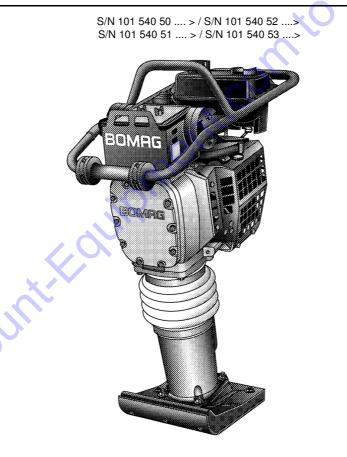


Operating instructions Maintenance instructions

BT 60/4 - BT 65/4





Vibratory Tamper



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CALIFORNIA

Proposition 65 Warning

part

JUR

Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

If the machine is equipped with a diesel engine :

CALIFORNIA

Proposition 65 Warning

The engine exhaust and some of its constituents are known to the state of California to cause cancer, birth defects, and other reproductive harm.

sto Dis

These BOMAG machines are products from the wide product range of BOMAG machines for earth and asphalt construction, refuse compaction and stabilizing/recycling.

BOMAG's vast experience in connection with state-of-the-art production and testing methods, such as lifetime tests of all important components and highest quality demands guarantee maximum reliability of your machine.

This manual comprises:

- Safety regulations
- Operating instructions
- Maintenance instructions
- Trouble shooting

Using these instructions will

- help you to become familiar with the machine.
- avoid malfunctions caused by unprofessional operation.

Compliance with the maintenance instructions will

- enhance the reliability of the machine on construction sites,
- prolong the lifetime of the machine,
- reduce repair costs and downtimes.

BOMAG will not assume liability for the function of the machine

- if it is handled in a way not complying with the usual modes of use,
- if it is used for purposes other than those mentioned in these instructions.

No warranty claims can be lodged in case of damage resulting from

- operating errors,
- insufficient maintenance and
- wrong fuels and lubricants.

Please note!

This manual was written for operators and maintenance personnel on construction sites.

These operating and maintenance instructions are part of the machine.

You should only operate the machine after you have been instructed and in compliance with these instructions.

Strictly observe the safety regulations.

Please observe also the guidelines of the Civil Engineering Liability Association "Safety Rules for the Operation of Road Rollers and Soil Compactors" and all relevant accident prevention regulations.

For your own personal safety you should only use original spare parts from BOMAG.

In the course of technical development we reserve the right for technical modifications without prior notification.

These operating and maintenance instructions are also available in other languages.

Apart from that, the spare parts catalogue is available from your BOMAG dealer against the serial number of your machine.

Your BOMAG dealer will also supply you with information about the correct use of our machines in soil and asphalt construction.

The above notes do not constitute an extension of the warranty and liability conditions specified in the general terms of business of BOMAG.

We wish you successful work with your BOMAG machine.

BOMAG GmbH

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Foreword

Please fill in

Machine type (Fig. 1)

Serial-number (Fig. 1 and 2)

Engine type (Fig. 3)

·····

Engine number (Fig. 3)

j 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!

Goto discounting

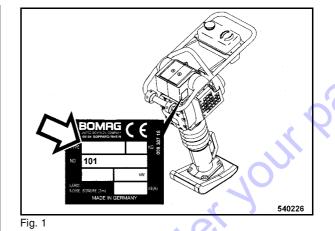
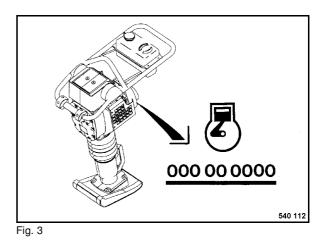


 Fig. 2

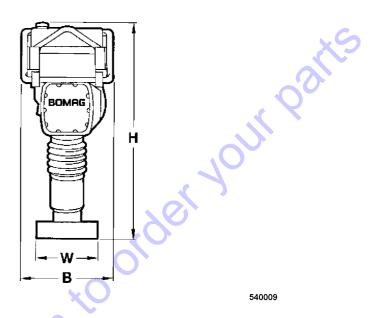


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Fig. 4

Dimensions in mm	В	Н		L1	W	
BT 60/4	350	960	735	335	280	
BT 65/4	350	1000	735	335	280	
			<u>2</u>			
*		. A		BT 60/4	BT 65/4	
Weight						
Basic weight			kg	61	67	
Operating weight (C	ECE)		kg	62	68	
Travel characteris	tics					
Max. working speed			m/min	20	20	
Max. areal output (c	depending on soil)	m²/h	336	336	
Drive						
Engine manufacture	er			Honda	Honda	
Туре				GX 100	GX 100	
Cooling				Air	Air	
Number of cylinders	6		2	1	1	
Displacement			cm ³	98	98	
Rated power ISO 92	249		kW	2.5	2.5	
Rated speed			rpm	4200	4200	

8

Technical Data

*		BT 60/4	BT 65/4
Exciter system Drive system Frequency Jumping height Impact force Number of blows Max. depth effect (depending on soil)	Hz mm kN rpm cm	mechanical 10 – 11.8 60 13.5 600 – 708 55	mechanical 10 – 11.8 70 16.2 600 – 708 65
Filling capacities Fuel tank Oil in tamper foot Engine oil * The right for technical modifications remains reserved	 	3.0 0.8 0.3	3.0 1.0 0.3
	ent.con		
coto to be and the second			
	BOMAG		9

Technical Data

The following noise and vibration data acc. to

- EC Machine Regulation edition 98/37/EC and
- the noise regulation 2000/14/EG, noise protection guideline 2003/10/EC
- Vibration Protection Regulation 2002/44/EC

were determined during conditions typical for this type of equipment and by application of harmorder your nized standards.

During operation these values may vary because of the existing operating conditions.

Noise value

Sound pressure level on the place of the operator:

BT 60/4: L_{pA} = 98 dB(A), determined acc. to ISO 11204 and EN 500 BT 65/4: L_{pA} = 95 dB(A), determined acc. to ISO 11204 and EN 500

Guaranteed sound power level:

BT 60/4: WA = 108 dB(A), determined acc. to ISO 3744 and EN 500 BT 65/4: WA = 106 dB(A), determined acc. to ISO 3744 and EN 500

A Danger

Loss of hearing!

Wear your personal noise protection means (ear defenders) before starting operation.

Vibration value

Hand-arm vibration:

Vector total of the weighted effective acceleration in three orthogonal directions:

Weighted total vibration value

BT 60/4: $a_{hv} = 9.3 \text{ m/s}^2$ on crushed rock determined acc. to ISO 5349 and EN 500 BT 65/4: $a_{hv} = 9.0 \text{ m/s}^2$ on crushed rock determined acc. to ISO 5349 and EN 500

 \wedge Caution Observe the daily vibration load (Industrial safety acc. to 2002/44/EEC).

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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:

- Compaction of all types of soils
- Repair work in all types of soil
- Reinforcement of walkways
- Work in trenches
- Backfills and compaction of marginal strips

Unintended use

Dangers may however arise from the machine if it is operated by untrained personnel in an unprofessional way or if it is unintentionally used.

Example:

- Working in horizontal direction
- Ramming of poles
- Compaction of interlocking paving stones

Sile.

Who is allowed to operate the machine?

The machine must only be operated by trained and authorized persons which are at least 18 years of age. The responsibilities for the operation of the machine are to be clearly specified and complied with.

Persons under the influence of alcohol, medication or drugs must not operate, service or repair the machine.

Maintenance and repairs require very specific knowledge and must therefore only be carried out by trained and qualified personnel.

Conversions and alterations to the machine.

Unauthorized conversions to the machine are prohibited for safety reasons.

Original parts and accessories have been specially designed for this machine. We wish to make expressly clear that we have not tested or authorized any original parts or special equipment not supplied by us. The installation and/or use of such products can impair the active and/or passive driving safety. The manufacturer expressly excludes any liability for damage resulting from the use of non-original parts or accessories.

Damage, deficiencies, misuse of safety installations

Machines which are not safe to operate must be immediately taken out of service and shall not be used, until these deficiencies have been properly rectified.

Safety installations and switches must neither be removed nor must they be made ineffective.

Safety notes in the operating and maintenance instructions:

A Danger

Sections marked like this point out possible dangers for persons.

▲ Caution

Sections marked like that point out possible dangers for the machine or for parts of the ma-chine.

j Note

Sections marked like this provide technical information concerning the optimal economical utilization of the machine.

Loading the machine

Always shut the engine down to transport the tamper or to lay it on its side.

Secure the machine against tipping over or slipping off.

Persons are highly endangered if they step or stand under a suspended load.

With the machine suspended be aware that the machine may swing about.

Secure the machine on the transport vehicle against rolling, slipping and turning over.

Starting the machine

Before starting

Become acquainted with the equipment, the control elements, the working principle of the machine and the working area.

Wear your personal protective outfit (hard hat, safety boots, etc.). Wear ear defenders.

Before starting the machine check whether:

- the machine shows any obvious faults
- all guards and safety elements are in place
- the controls are fully functional
- the machine is free of oily and combustible material
- all grips are free of grease, oils, fuel, dirt, snow and ice.

Use only machines which are serviced at regular intervals.

Starting and operation of the machine is closed rooms and trenches

Exhaust gases are highly dangerous! Always ensure an adequate supply of fresh air when starting and operating in closed rooms and trenches!

Operation

- Guide the machine and take care that you do not hurt your hands on any obstructions, danger of accident.
- Watch out for unusual noises and the development of smoke. Find the cause and have the fault corrected.
- Do not hold the throttle lever in the area below I, as this may damage the centrifugal clutch.
- Do not take your hands off the machine while the engine is running.
- Keep your feet away from the tamper foot

Parking the machine

Stand the machine on ground as level as possible. Before leaving the machine:

• Secure the machine against tipping over.

Filling in fuel

Refuel only with the engine shut down.

Do not refuel in closed rooms.

No open fire, do not smoke.

Do not spill any fuel. Catch running out fuel, do not let it seep into the ground.

Do not inhale any fuel fumes.

Avoid contact with skin and eyes.

Do not swallow.

Maintenance

Maintenance work must only be carried out by qualified and authorized personnel.

Keep unauthorized persons away from the machine.

Do not perform maintenance work while the engine is running.

Park the machine on level and firm ground.

Safety regulations

Working on the fuel system

No open fire, do not smoke, do not spill any fuel.

Catch running out fuel, do not let it seep into the ground and dispose of environmentally.

Do not breath in fuel fumes.

Working on the engine

When working on the fuel filter make sure that no dirt falls into the air channel.

Do not work on the hot exhaust, risk of burns!

When working on the exhaust channel of the engine make sure that no combustion residues fall into the cylinder.

Do not touch the piston with the cleaning tools.

Working on the tamper foot

Wipe off spilled oil, catch running out oil and dispose of environmentally.

Store oily material in a specially marked container and dispose of environmentally.

Cleaning

Do not clean the machine while the engine is running.

Do not use gasoline or other inflammable substances to clean the machine.

When using steam cleaning equipment do not subject electric parts and insulating material to the direct water jet or cover them beforehand.

Do not guide the water jet directly into the air filter, into the exhaust or into the air intake opening.

After the maintenance work

Reinstall all protective devices after completing maintenance.

Repair

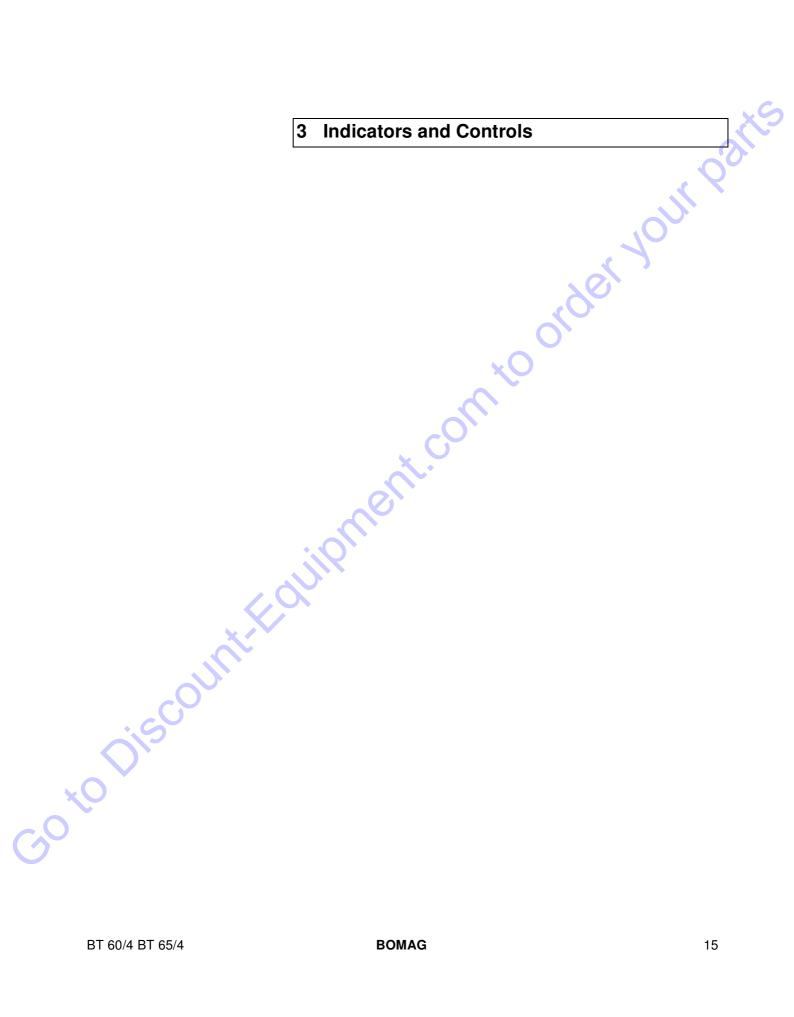
Repairs must only be carried out by qualified and authorized personnel. Always follow our repair instructions.

Exhaust gases are highly dangerous! Always ensure an adequate supply of fresh air when starting in closed rooms!

Attach a warning tag to the steering bow if the machine is defective.

• Do not mix the nozzle in the carburettor up by mistake.

- Adjust the idling speed regulator screw exactly.
- Do not damage the blower wheel when working on the magnetic ignition.
- Always replace self locking nuts.
- Do not open the foot cover on the tamper foot, spring tension. Danger of accident!
- Observe the prescribed tightening torques.



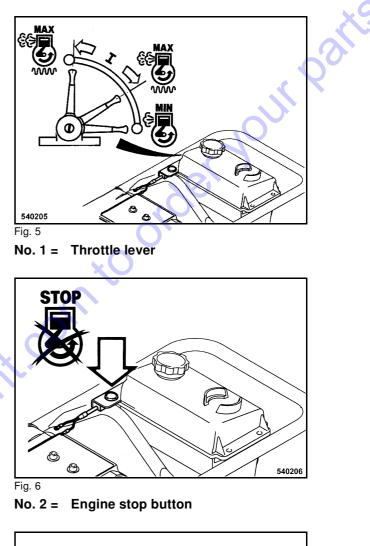
3.1 General notes

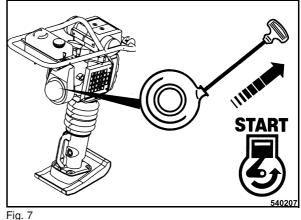
Please read this section thoroughly before operating this machine if you are not yet conversant with the indicators and control elements. All functions are described in detail hereunder.

Paragraph 4 Operation contains only concise descriptions of the individual operating steps.

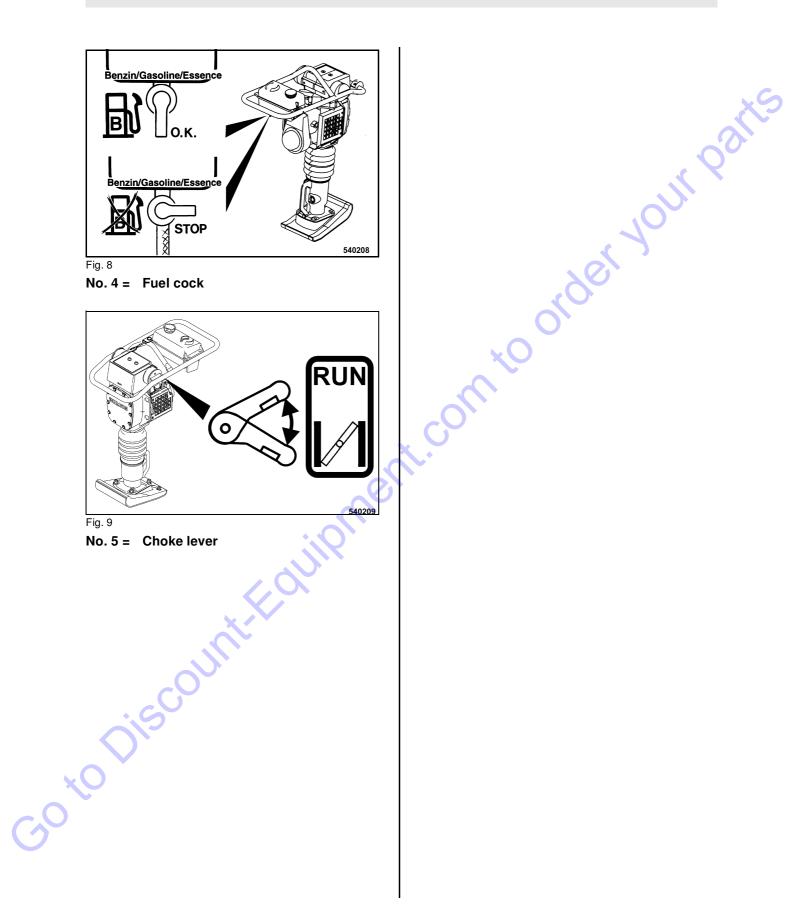
Goto

3.2 Controls





No. 3 = Recoil starter





4.1 General

If you are not yet acquainted with the controls and indicating elements on this machine you should thoroughly read chapter 3 "Indicators and control elements" before starting work.

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

oto

4.2 Tests before taking into operation

j Note

During the running in time the idle speed may increase because of the enhanced moveability of the engine. Idle speed between 1700 and 2000 rpm.

The running in time of the vibratory tamper is 10 operating hours.

The following inspections must be carried out before each working day or before a longer working period.

A Danger

Danger of accident!

Please observe strictly the safety regulations in chapter 2 of this instruction manual!

• Park the machine on ground as level as possible.

Check:

- condition of engine and machine
- fuel tank and fuel lines for leaks
- screw joints for tight fit

i Note

For a description of the following tasks refer to the chapter "Daily maintenance".

concertina wall for damage and leaks

i Note

Important! The engine cannot be started if the engine oil level is too low.

- Engine oil level
- Fuel level

4.3 Starting the engine

▲ Danger

Exhaust gases are highly dangerous!

Always ensure an adequate supply of fresh air when starting and operating in closed rooms and trenches!

A Danger

Danger of accident!

Always hold on to the machine.

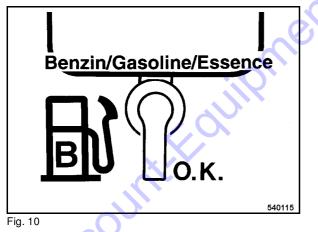
Keep your feet away from the tamper plate, because the vibration starts immediately.

Always keep an eye on a running machine.

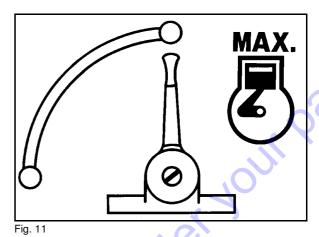
A Danger

Loss of hearing!

Wear your personal noise protection means (ear defenders) before starting operation.



• Open the fuel cock (Fig. 10).



• Set the throttle lever (Fig. 11) to position "MAX".

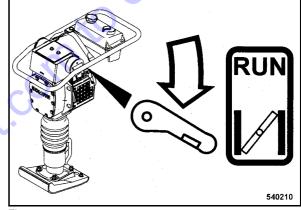


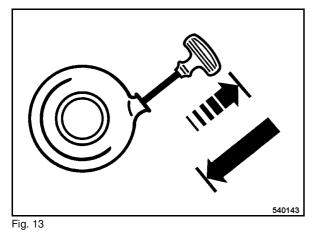
Fig. 12

• Close the choke (Fig. 12).



Always close the choke to start a cold and warm engine.

برز



- Pull the rope by the starter handle (Fig. 13) un-. til resistance can be felt.
- Let the starter handle run back to initial position.

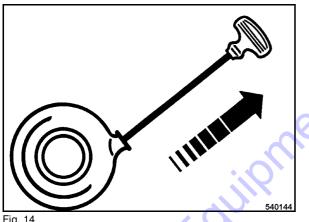


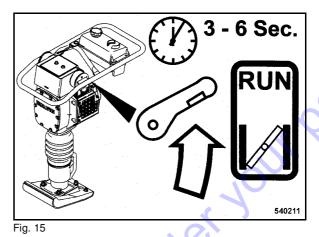
Fig. 14

Pull the starter handle quickly and with power • (Fig. 14).

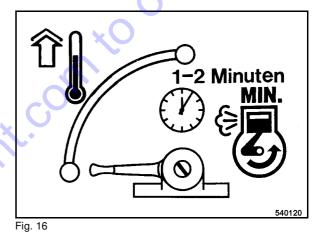
Caution

Do not let the starter handle hit back.

- Guide the starter handle back to initial position by hand.
- If the engine does not start during the first attempt, repeat the starting process.



Open the choke (Fig. 15) 3 to 6 seconds after • the engine has started running.



Set the throttle lever (Fig. 16) to position "MIN" • and let the engine run warm for 1 to 2 minutes.

li Note

Once the engine has warmed up you can start to work with the tamper.

Starting under cold weather conditions

If the engine stops again after approx. 3 to 5 seconds, close the choke again and repeat the starting process.

Engine oil level too low

The engine does not start if the oil level is too low.

- Check the engine oil level, fill up if necessary.
- Repeat the starting procedure.

Engine "drowned"

j Note

When the choke is closed and the starter rope is pulled several times, the engine draws in too much fuel and will probably not start.

Remedy

- Close the fuel cock.
- Open the choke.
- Set the throttle lever to full speed position.
- Operate the recoil starter until the engine starts.

j Note

If the engine does not start after 10 to 20 attempts

- pull off the spark plug socket.
- unscrew the spark plug.
- operate the starter several times.
- Dry the spark plug with a clean cloth or blow it dry with compressed air. If necessary clean with a wire brush.
- Screw the spark plug back in and plug the spark plug socket back on.
- Repeat the starting procedure.

4.4 Work/operation

A Danger

Danger of accident!

Guide the machine only with the handle.

Do not let the machine run unattended.

Use your personal noise protection means (ear defenders).

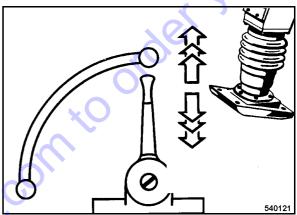


Fig. 17

- Set the throttle lever (Fig. 17) to "MAX"-position.
- The machine works at max. frequency.

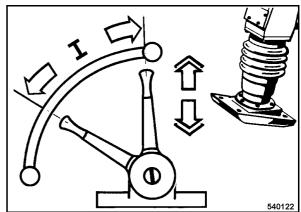
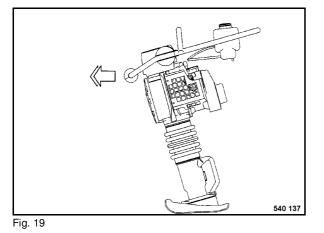


Fig. 18

 In order to achieve a smooth running of the machine adjust the throttle lever in the range I (Fig. 18), depending on the condition and the density of the soil.

Operation



• The travel speed can be influenced by altering the load on the steering handle (Fig. 19).

No load = slowly forward

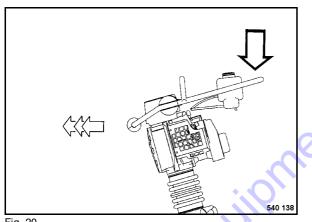


Fig. 20

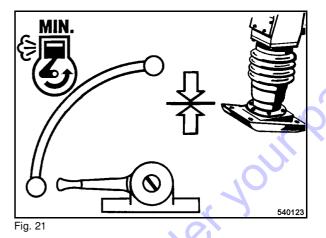
• The travel speed can also be influenced by varying the pressing force on the steering bow (Fig. 20).

Strong force = fast forward

i Note

The lift height of the material to be compacted should not be higher, than the tamper can manage.

If the tamper should get out of rhythm on highly compacted ground, smooth running can be achieved by slightly changing the engine speed and/or the inclination of the tamper.



• During short breaks you should always set the throttle lever to "MIN"-position (Fig. 21).

j Note

This avoids premature wear of the centrifugal clutch and reduces the fuel consumption

4.5 Shutting down the engine

▲ Caution

Do not shut the engine down all of the sudden from full speed, but let it idle for a while for temperature equalization.

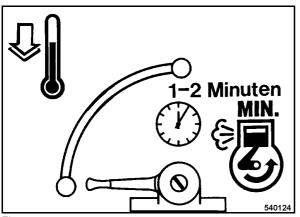


Fig. 22

- Move the throttle lever (Fig. 22) back to idle speed position.
- Run the engine for a short while in idle speed.

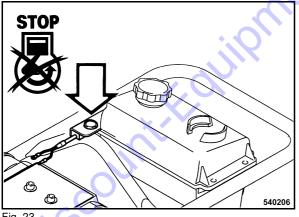


Fig. 23 🔹

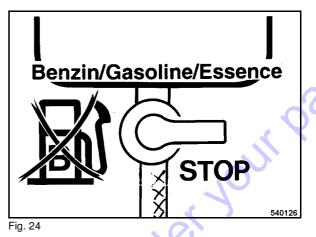
• Press the engine shut-down button (Fig. 23).

🛕 Danger

Danger of burning!

Immediately after shutting down the engine is still hot, do not touch the exhaust.

Park the machine so that it cannot turn over.



 Set the fuel valve (Fig. 24) to "STOP" position (closed).

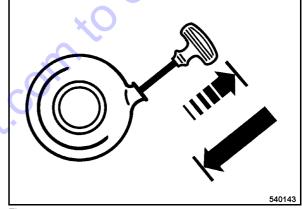


Fig. 25

- Pull the rope by the starter handle (Fig. 25) until resistance can be felt.
- Let the starter handle run back to initial position.

j Note

This procedure protects against moisture deposits inside the engine.

4.6 Changing the tamper foot plate

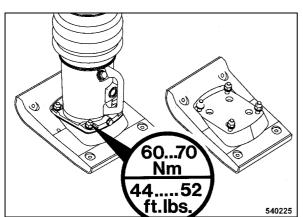


Fig. 26

 After changing the tamper foot plate (Fig. 26) tighten the 4 fastening screws with a tightening torque of 60 to 70 Nm (44 to 52 ft.lbs).

j Note

When changing the tamper foot to a different width use only genuine BOMAG parts.

After changing the tamper foot check the engine speed, adjust it if necessary.

4.7 Loading and transport

Danger

Danger of accident!

Always shut the engine down to transport the tamper to lay it on its side.

Make sure that persons are not endangered by the machine tipping or sliding off.

Lash the machine down, so that it is secured against rolling, sliding and turning over.

For lifting the machine attach the lifting gear only to the cross strut on the engine protection bow.

The machine should not swing about too much when being lifted.

Do not stand under suspended loads.

Use only safe lifting gear of sufficient load bearing capacity

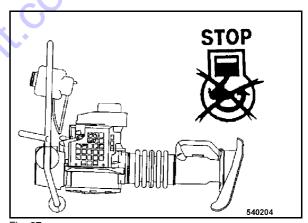
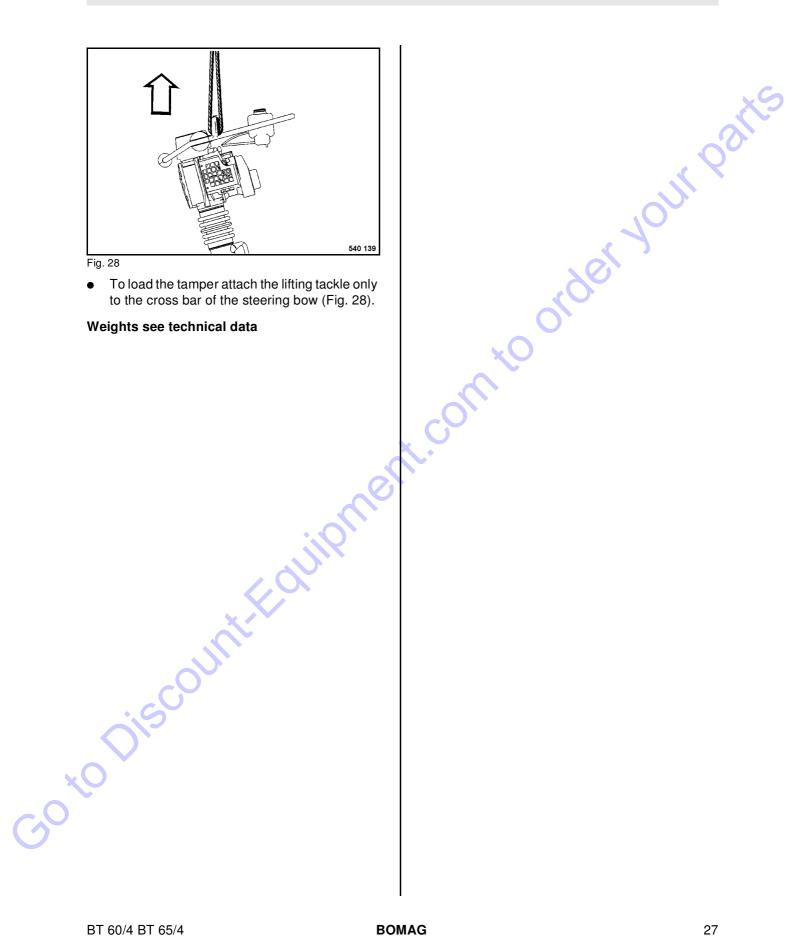


Fig. 27

- Always shut the engine down for transport.
- Transport the tamper only lying down (Fig. 27) on the castors.





5.1 General

When performing maintenance work ensure strict compliance with the respective safety instructions and particularly the safety regulations mentioned in chapter 2 of these operating and maintenance instructions.

Thorough maintenance of the tamper guarantees far longer safe functioning of the machine 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.

- Always clean tamper and engine thoroughly before starting maintenance work.
- For maintenance work stand the tamper on level ground and secure it against tipping over.
- Perform maintenance work only with the engine shut down.
- During maintenance work catch running out oils and fuel environmentally and do not let such substances seep into the ground or into the sewage system. Dispose of oils and fuel environmentally and avoid contact with skin and eyes.

Frequent causes of faults:

• Operating errors

sto Discl

Incorrect, insufficient maintenance

If you cannot locate the cause of a fault or rectify it yourself by following the trouble shooting chart, you should contact the service departments at our branch offices or dealers.

5.2 Fuels and lubricants

Fuel

Quality

The engine has been approved for operation with unleaded gasoline with a octane number of 86 or higher (research octane number of 91).

Use only commercially available brand fuel.

Engine oil

The oil is an essential factor for the performance and liftime of the engine.

Use engine oil for four-stroke engines which meets or even exceeds the requirements for API-service class SJ or higher (or equivalent).

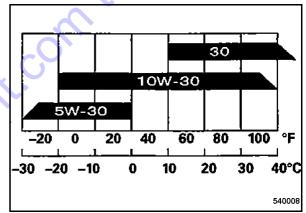


Fig. 29

In order to assure perfect cold starting it is import to chose the viscosity (SAE-class) of the engine oil according to the ambient temperature.

SAE 10W-30 is recommended for general use. Other viscosities from the table can be used as long as the average temperatures in your area stay within the specfied limits.

Lubrication oil with a too high viscosity index causes starting difficulties, the temperature when starting the engine is therefore of highest importance when choosing the viscosity of engine oil for winter operation.

Use winter grade engine oil for winter operation!

For winter operation below -10 $\,^\circ\!C$ the oil change intervals must be shortened.

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The longest permissible time a lubrication oil should remain in an engine is 1 year.

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Tamper foot oil

Use gear oil Titan Speed SAE 75W-90.

5.3 Table of fuels and lubricants

Assembly	Fue	Fuel or lubricant		
	Summer	Winter	Attention Observe the level mark	
Engine	Engine oil A	API CG-4/SJ or higher	0,3 I to oil level mark	
	S	AE 10W/30		
	(-20	℃ to +30 ℃)	.20	
	S	AE 10W/40		
	(-20	℃ to +40 ℃)		
	S	AE 15W/40		
	(-15	℃ to +40 ℃)		
	SAE 30	SAE 10 W		
	(10 ℃ to 40 ℃)	(-20 ℃ to 0 ℃)		
	SAE 40	SAE 20W/20		
	(25 ℃ to 45 ℃)	(-10 ℃ to +10 ℃)		
- Fuel	Gaso	line (unleaded)	3,0	
Padfoot	Titan Sp	beed SAE 75W-90	BT60/4: 0,75 I BT65/4: 1,0 I	
	Juntit			

5.4 Running-in instructions

The following maintenance work must be performed when running in new machines or overhauled engines:

▲ Caution

During the running-in period, up to approx. 200 operating hours, check the engine oil level twice every day.

Depending on the load the engine is subjected to, the oil consumption will drop to the normal level after approx. 100 to 200 operating hours.

After approx. 20 operating hours

- Change the engine oil.
- Check maximum engine speed, adjust if necessary.
- Check engine and machine for leaks.
- Retighten the fastening screws on air filter exhaust, fuel tank and other attachments.
- Retighten the bolted connections on the machine.

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5.5 Maintenance table

No.	Maintenance work	Comment	daily	monthly	annually
5.6	Clean the machine	in case of extreme dust clean every day	Х		
5.7	Check the bellows on the tamper		Х		\mathbb{R}
5.8	Check the engine oil level	Dipstick mark	Х	5)
5.9	Check the fuel level, top up fuel		Х	9	
5.10	Change the engine oil	at least every 100 oper- ating hours or 1x per year		х	
5.11	Clean, check the spark plug, replace if neces- sary			Х	
5.12	Taper plate, tighten the bolts	-01		Х	
5.13	Check the oil level in the tamper foot	Inspection glass		Х	
5.14	Check, adjust the valve clearance	Intake: 0,15 mm Exhaust: 0,20 mm			Х
5.15	Clean the fuel screen in the tank				Х
5.16	Oil change in tamper foot				Х
5.17	Clean, change the double dry air filter cartridge	in case of a drop in the max. engine speed			
	oiscountre				

X

5.6 Cleaning the machine

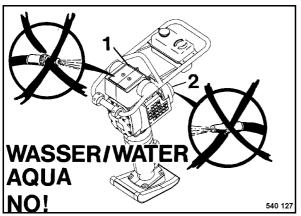


Fig. 30

 Do not guide the water jet directly into the air filter 1 (Fig. 30) and into the starter/air intake (2).

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5.7 Checking the bellows on the tamper

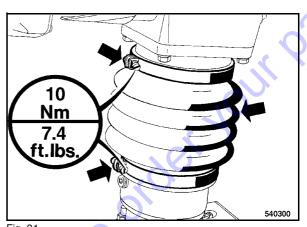


Fig. 31

- Check the condition of the bellows, inspect for damage and tight fit.
- Check the hose clamps for tight fit (Fig. 31).

5.8 Check the engine oil level

▲ Caution

Check the engine oil level with highest care, to avoid over or underfilling of the engine. Underfilling can damage the engine. Overfilling causes excessive development of smoke and can also lead to engine damage

j Note

The engine cannot be started if the engine oil level is too low.

- Stand the tamper on flat and level ground.
- Shut down the engine.

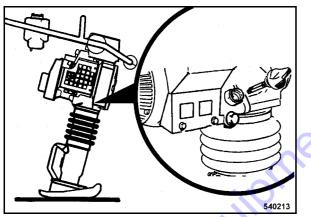
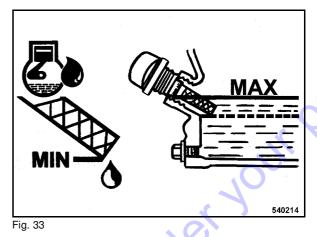


Fig. 32

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• Pull out the dipstick (Fig. 32) and wipe it clean with a lint-free, clean cloth.



- The oil level must reach the bottom edge of the filler bore (Fig. 33), maximum level.
- To check the oil level insert the dipstick, but do not screw it in.
- If the oil level is too low top up oil immediately.
- Push the dipstick in again.

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

• After approx. 1 minute. check the oil level again with the engine shut down.

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5.9 Checking the fuel level, topping up fuel

A Danger

Fire hazard!

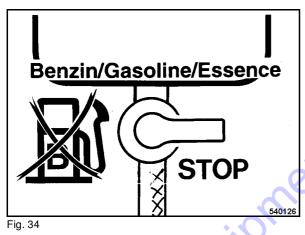
Refuel only with the engine shut down and the fuel cock valve closed. Do not spill any fuel!

Do not inhale any fuel fumes.

No open fire, do not smoke!

Fuel:

Unleaded standard grade petrol



 Set the fuel valve (Fig. 34) to STOP position (closed).



Fig. 35

- Tank content max. 3.0 litres.
- Close the filler cap again tightly after refuelling (Fig. 35).

5.10 Engine oil change

Danger

Danger of sclading when draining off hot oil.

▲ Caution

Park the machine on level ground.

Drain the engine oil only when the engine is warm.

Caution \square

Check the engine oil level with highest care, to avoid over or underfilling of the engine. Underfilling or overfilling can damage the engine.

🗘 Environment

Catch running out old oil, do not let it seep into the ground and dispose off environmentally.

Note li

The engine cannot be started if the engine oil level is too low.

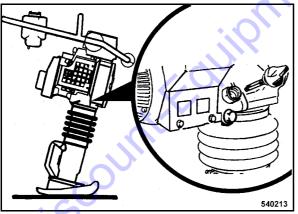


Fig. 36

Remove the oil dipstick (Fig. 36).

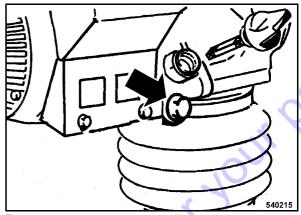
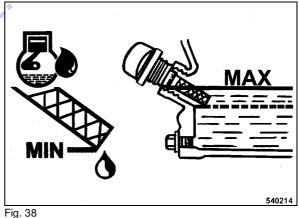


Fig. 37

- Unscrew the oil drain plug (Fig. 37), let the old . oil run out and catch it.
- Clean the drain plug and screw it back in with a new seal ring.
- Fill in fresh engine oil through the oil filler opening.

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



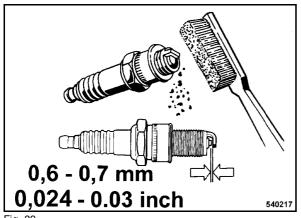
- The oil level must reach the bottom edge of the • filler bore (Fig. 38), top up if necessary.
- Insert the oil dipstick.
- Perform a test run, inspect the drain plug for leaks and check the oil level.

5.11 Cleaning, checking the spark plug, replacing if necessary

Danger

Danger of burning!

Let the engine cool down for approx. 15 minutes before cleaning/changing the spark plug.



- Fig. 39
- Pull the spark plug socket off.
- Unscrew the spark plug, check the spark plug visually and clean it if necessary (Fig. 39).

j Note

In case of excessive combustion residuals or burned off electrodes replace the spark plug, ensure correct heat value of the spark plug.

• Check the electrode gap with a feeler gauge, if necessary adjust the gap to 0.6...0.7 mm.

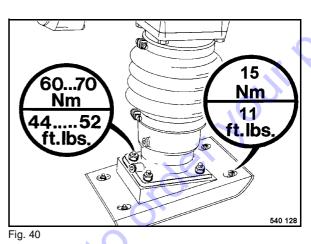
Spark plugs:

NGK: CR5HSB Denso: U16FSR-UB

▲ Caution

Do not use spark plugs with incorrect heat value.

5.12 Taper plate, tighten the bolts



• Retighten the screws (Fig. 40).

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5.13 Checking the oil level in the tamper foot

j Note

Stand the tamper of level ground for a short while, so that all oil can run into the housing.

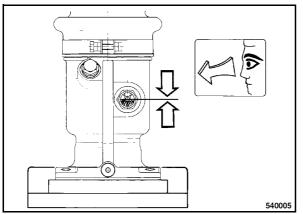


Fig. 41

- Clean the sight glass (Fig. 41).
- Check the oil level.
- The oil must be visible in the inspection glass, if necessary fill in oil accordingly.

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

5.14 Check, adjust the valve clearance

i Note

Check and adjust only when the engine is cold (20 +/- 10 $^{\circ}$ C). If necessary have this work performed by a specialist workshop. Valve clearance:

Intake valve (IN) = 0.15 mm (0.006 in) Exhaust valve (EX) = 0.20 mm (0.008 in)

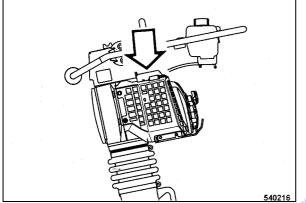


Fig. 42

Remove the top engine cover (Fig. 42). •

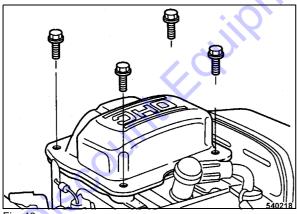


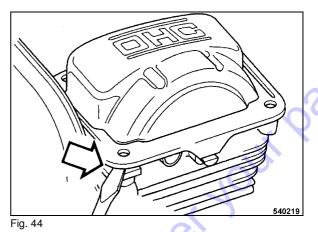
Fig. 43

Unscrew the fastening screws for the cylinder head cover (Fig. 43).

Caution \triangle

Do not apply force to remove the cylinder head cover.

Replace the cylinder head cover if it is dented.



Insert the screw driver into the recess (Fig. 44) and take the cylinder head cover carefully off.

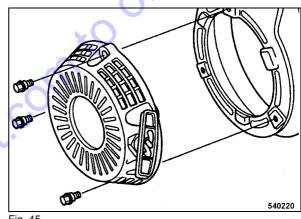


Fig. 45

Remove the recoil starter (Fig. 45).

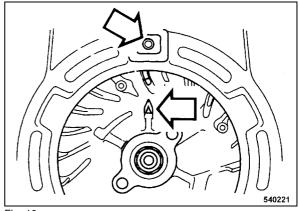


Fig. 46

Align the alignment mark Δ on the flywheel rib • with the top bore in the fan cover (Fig. 46).

Maintenance every year

i Note

The piston is in top dead centre of the compression stroke.

However, if the exhaust valve is open when aligning the marks, the flywheel must be turned further by 360 °.

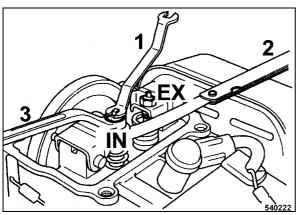


Fig. 47

 Measure the valve clearance between valve adjustment screw and valve with a feeler gauge 2 (Fig. 47).

Valve clearance

Intake valve (IN) = 0.15 mm (0.006 in)Exhaust valve (EX) = 0.20 mm (0.008 in)

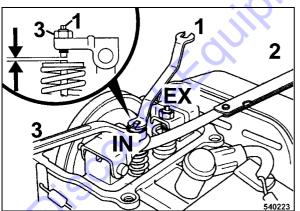
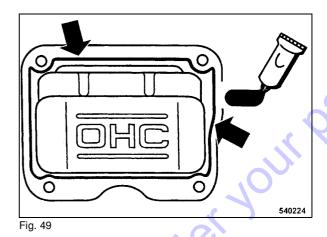


Fig. 48

- To adjust the valve hold valve adjustment screw 1 (Fig. 48) and slacken locking screw (2).
- Turn the valve adjustment screw in or out in order to achieve the specified valve clearance.
- Retighten the locking screw with a tightening torque of 7.5 Nm (5.4 lbsft).



- Clean the sealing faces on cylinder head cover and cylinder block.
- Apply a bead of liquid gasket (Three Bond 1207B or similar) with a diameter of approx.
 1.5 to 2 mm to the inside of the cylinder head cover (Fig. 49).

i Note

Attach the cylinder head cover within the next 10 minutes.

Wait another 20 minutes before starting the engine.

5.15 Cleaning the fuel filter inside the tank

A Danger

Fire hazard!

No fire, do not smoke. Do not inhale any fuel fumes.

🔮 Environment

Environmental hazard!

Do not spill any fuel. Wipe off spilled fuel.

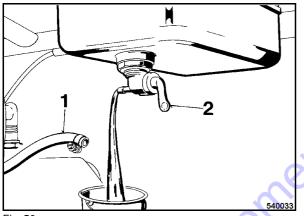
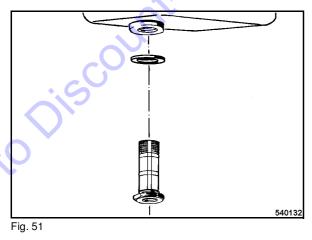
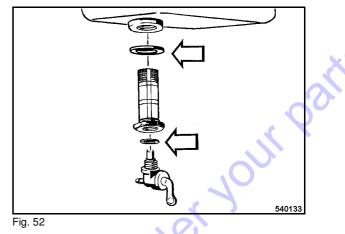


Fig. 50

- Disconnect the fuel hose 1 (Fig. 50) from the fuel shut-off valve (2). Open the fuel shut-off valve, drain the fuel off.
- Unscrew the fuel shut-off valve (2).



• Screw the strainer (Fig. 51) out and clean it with gasoline.



• Screw the strainer and the fuel shut-off valve in with a new seal each (Fig. 52).

5.16 Oil change in tamper foot

\wedge Caution

Ensure strict cleanliness.

Change the oil at operating temperature.

S Environment

Catch running out old oil, do not let it seep into the ground and dispose off environmentally.

Tip the tamper backwards.

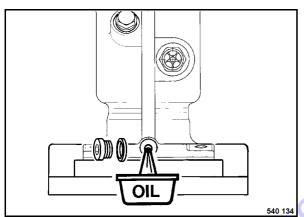


Fig. 53

- Clean and unscrew the oil drain plug (Fig. 53), • let the old oil run out and catch it.
- Check the seal on the drain plug, replace if necessary.
- Turn the drain plug in and tighten it.

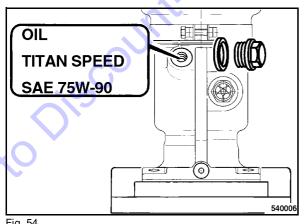


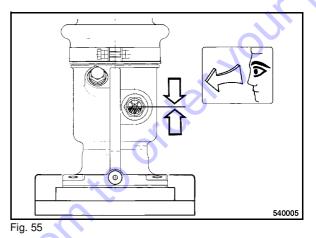
Fig. 54

Stand the tamper on its foot and secure it against tipping over.

- Clean the filler plug (Fig. 54) and unscrew it.
- Fill in new oil.

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

Screw the filler plug back in with a new seal ring.



Clean the inspection glass (Fig. 55) and check the oil level.

The oil must be visible in the inspection glass, if necessary fill in oil accordingly.

5.17 Clean, change the double dry air filter cartridge

j Note

Contamination of the air filter cartridge depends mainly on the proportion of dust in the intake air, if necessary clean every day.

In case of wet or sticky contamination replace the double filter cartridge.

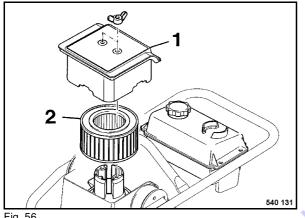


Fig. 56

Remove cover 1 (Fig. 56), take filter cartridge • (2) carefully out.

▲ Caution

Make sure that no dirt falls into the air intake channel.

Visual inspection/cleaning

A Danger

Eye injury!

Wear protective clothing (goggles, gloves).



In case of dry fine dust blow out the filter cartridge carefully from inside to outside with dry, clean compressed air (Fig. 57) (max. 6 bar).



Before installation check seals and filter cartridge for damage, replace if necessary.

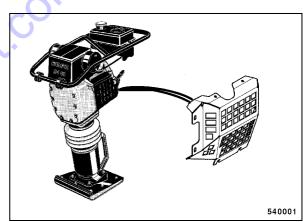
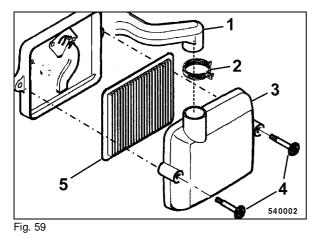


Fig. 58

Remove the protection grid on the left hand • side of the engine (Fig. 58).

As required



- Loosen hose clamp 2 (Fig. 59) and pull the air supply hose (1) off the air filter housing.
- Unscrew two fastening screws (4) and remove cover (3) from the air filter housing.
- Pull the dry air filter cartridge (5) out of the housing.

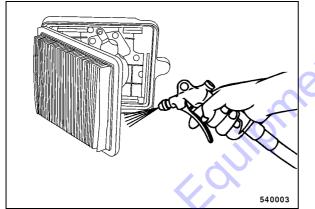


Fig. 60

- If soiled with dry fine dust blow the dry air filter out from the clean air side (Fig. 60).
- Clean the air filter housing.

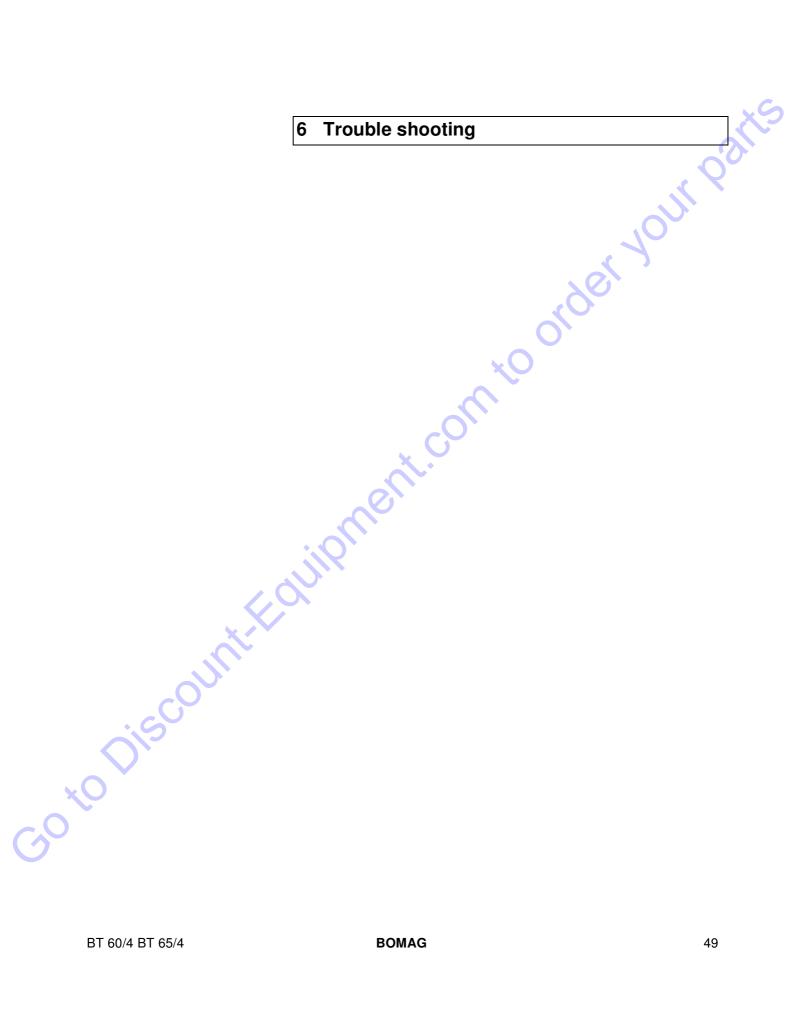
▲ Caution

Make sure that no dirt falls into the air intake channel.

i Note

Before installation check seals and dry air filter for damage, replace if necessary.

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6.1 General notes

The following work must only be carried out by qualified and trained personnel or by the BOMAG sales service.

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

Faults occur frequently due to the fact, that the machine has not been properly operated or serviced. Therefore, whenever a fault occurs, read through these instructions on correct operation and maintenance. If you cannot locate the cause of the fault or eliminate it yourself by following the trouble shooting charts, you should contact our customer service departments at our branch office or dealers.

On the following pages you will find a selection of fault remedies. It is quite obvious that we were not able to list all possible causes for faults.

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6.2 Engine problems

Fault	Possible cause	Remedy
Engine does not	Fuel tank empty	refuel
start	Fuel system clogged	Clean the fuel screen in the tank, clean the fuel screen in the carburettor
	Fuel nozzle clogged	Clean the fuel nozzle
	No ignition spark	Replace the spark plug, have the fault corrected
	Engine oil level too low	Check the engine oil level
	Stop switch defective	Replace stop switch
	No fuel in carburettor	Check the fuel supply
Engine does not crank when op- erating the start- er	Starter defective	Replace starter
	Spring broken	Replace starter
Starter rope of recoil starter does not return to initial position	Dirt	Clean the starter
	Spring broken	Replace starter
Engine stops frequently in short intervals	Fuel screen clogged	clean
Engine does not run with full speed	Throttle cable defective	replace
	Throttle cable incorrectly adjusted	Adjust the throttle cable
	Air filter clogged	Clean or replace the filter cartridge
	Too high engine oil level	Drain engine oil down to "MAX" level (clean intake manifold)
	Engine defective	Replace the engine/have the fault corrected
	Carburettor defective	Replace the carburettor
	Exhaust blocked	clean
Engine runs with	Centrifugal clutch defective	Change the centrifugal clutch
high speed, but no vibration	Mechanical defect	Have repaired by the customer service of BOMAG.

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