

# BOMAG

## Operating instructions Maintenance instructions

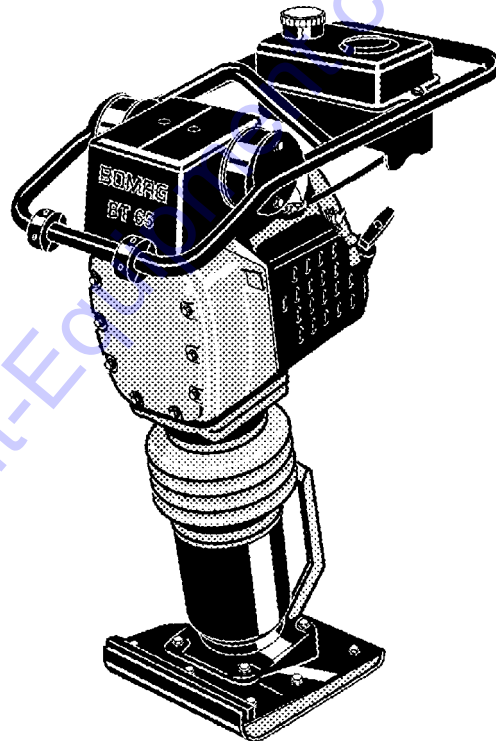
*This manual is  
in accordance with  
product liability laws  
and safety regulations*

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### BT 50 / BT 60 / BT 65

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S/N 101 540 34 0101(EPA) S/N 101 540 44 0101(EPA)  
S/N 101 540 35 0101(EPA)



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### Vibratory tamper

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If the machine is equipped with a battery :

**CALIFORNIA**  
Proposition 65 Warning

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.

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# BOMAG



## EC - Declaration of Conformity

as defined by Machinery Directive 89/392 EEC, Annex II A

**Herewith we declare that this series production machine**

Designation: **Vibratory tamper**

Type: **BT 50, BT 60, BT 65, BT 70**

Manufacturer: **BOMAG GmbH & Co. OHG, Boppard**

Serial number: **(see information on type plate)**

**complies with the substantial provisions of EEC-Directive:**

Machinery:

**89/392/EEC, amended by directive 91/368/EEC + 93/44/EEC + 93/68/EEC**

EMC:

**89/336/EEC, amended by directive 91/263/ECC + 92/31/ECC + 93/68/ECC**

and the harmonized standards:

**EN 500-1 and 500-4**

A specimen of the above mentioned product has been checked and approved by the committee civil engineering/testing and certificated under the number .

**This EU-declaration of conformity is only valid together with the appropriate scope of delivery and clearly visible CE-sign on the machine integrated in the type plate.**

**Boppard, 12/99**

**BOMAG GmbH & Co. OHG**

*R. Steinadler*

R. Steinadler

**Project Manager**



**Machines marked with the  -sign are in accordance with the latest improved safety regulations for the market within the European Union.**

**For machines to be used outside this area and where these regulations are not binding, BOMAG recommends the application of the same safety standards.**

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**The BOMAG - machines are products from the wide range of BOMAG soil compaction machines. BOMAG's vast experience as well as most up-to-date production and testing procedures, such as lifetime tests of all important components and highest quality demands, guarantee maximum reliability of your machine.**

Using this manual will

- **help you** to understand the machine.
- **avoid** malfunctions caused by faulty operation.

Referring to the maintenance instructions will

- **increase** the reliability of the machine on the site,
- **increase** the service life of your machine,
- **reduce** repair costs and downtimes.

BOMAG shall not assume liability for safe functioning of the machine

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

No warranty claims may be lodged in case of damages caused by

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

### **Please note!**

This manual has been written to be used by operators and service personnel on the site.

You should only operate the machine if you are fully conversant with the contents of these instructions.

Please 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 instructions.

**For your own safety you should only use BOMAG spare parts.**

### **We reserve the right for technical modifications without prior notification.**

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

You can also receive the spare parts catalogue from your BOMAG dealer when giving the serial number of your machine.

You can also obtain informations about the correct use of our machines for soil- and asphalt compaction from your BOMAG dealer.

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

We wish you much success with your BOMAG machine.

BOMAG GmbH & Co. OHG  
Boppard

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## Foreword

### Please fill in

.....  
Machine type (Fig. 1)

.....  
Serial No. (Fig. 1 and 2)

.....  
Engine type (Fig. 3)

.....  
Engine No. (Fig. 3)

### **i** Note

Fill in the above listed data when receiving the machine.

Upon receipt of the machine our organization will instruct you about correct operation and maintenance.

Please observe strictly all safety regulations and notes on potential dangers!

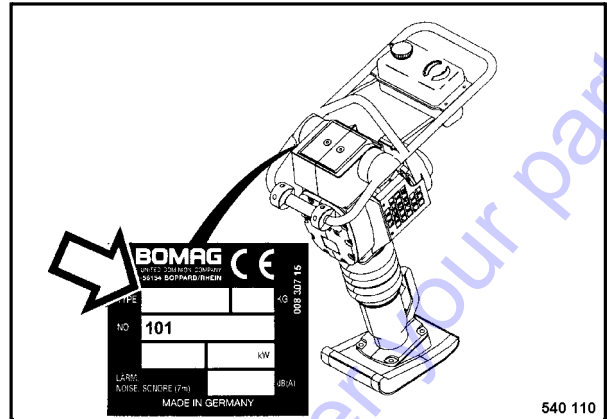


Fig. 1

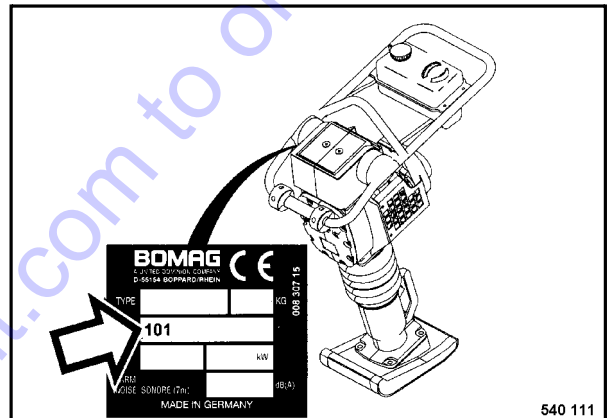


Fig. 2

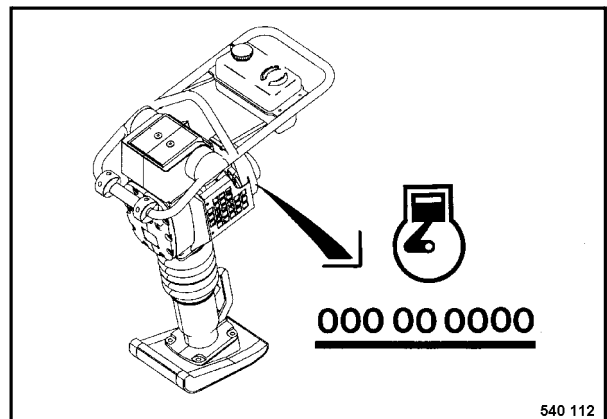


Fig. 3

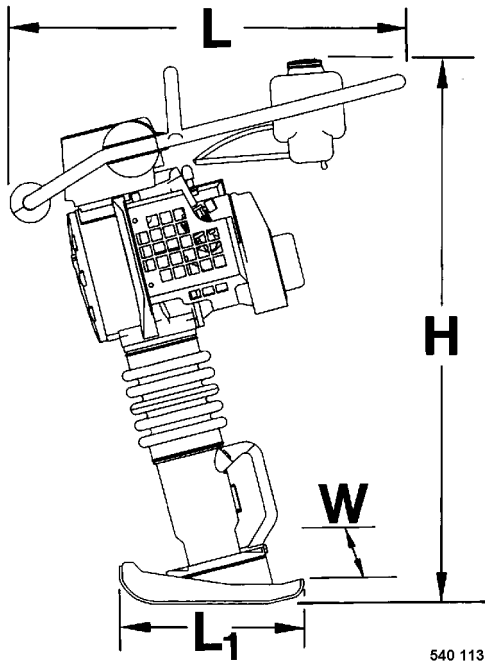
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## 1 Technical Data

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## Technical Data



Dim. mm (inch)	H	L	L1	W
<b>BT 50</b>	960(37.8)	695(27.36)	350(13.78)	230(9.06)
<b>BT 60</b>	960(37.8)	695(27.36)	350(13.78)	230(9.06)
<b>BT 65</b>	1000(39.37)	695(27.36)	350(13.78)	280(11.02)

		<b>BT 50</b>	<b>BT 60</b>	<b>BT 65</b>
<b>Weight</b>				
Basic weight	kg (lb)	53(116.87)	60(132.3)	67(147.7)
Operating weight (CECE)	kg (lb)	54(119.07)	61(134.5)	68(149.9)
Engine		ROBIN	ROBIN	ROBIN
Type		EC 08 D	EC 08 D	EC 12 D
Cooling		air	air	air
Number of cylinders		1	1	1
Rated power ISO 9249	kW (HP)	2,0 (2,7)	2,2 (3,0)	2,6 (3,5)
Rated speed	rpm	4500	4500	4500

		BT 50	BT 60	BT 65
<b>Capacities</b>				
Fuel tank (two stroke mixture 50:1)	l	3,0(0.793)	3,0	3,0
Oil in tamper foot	l	0,75(0.198)	0,75	1,0(0.264)
<b>Vibration</b>				
Frequency	Hz	10 ... 12	10 ... 12	9 ... 11
Jumping height	mm (in)	up to 60(2.36)	up to 65(2.56)	up to 70(3.15)
Working speed (depending on soil)	m/min	up to 19	up to 19	up to 20
Max. area output (depending on soil)	m <sup>2</sup> /h	265	265	336
Depth effect (depending on soil)	cm (in)	up to 50	up to 55	up to 60

The following noise and vibration values according to the EEC machine regulation (edition 93/68/EEC) have been measured under typical operating conditions for this machine over a predetermined travel distance.

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

### Noise values

The sound level according to enclosure 1, paragraph 1.7.4.f of the EEC-machine regulation is

#### Sound pressure level at the operator's stand

##### BT 50 / BT 60

$L_{pA} = 97 \text{ dB(A)}$

##### Sound capacity level:

$L_{WA} = 108 \text{ dB(A)}$

##### BT 65

$L_{pA} = 97 \text{ dB(A)}$

##### Sound capacity level:

$L_{WA} = 107 \text{ dB(A)}$

These sound values were determined according to ISO 6081 for the sound pressure level ( $L_{pA}$ ) and ISO 3744, DIN 45635 for the sound capacity level ( $L_{WA}$ ).

### Vibration value

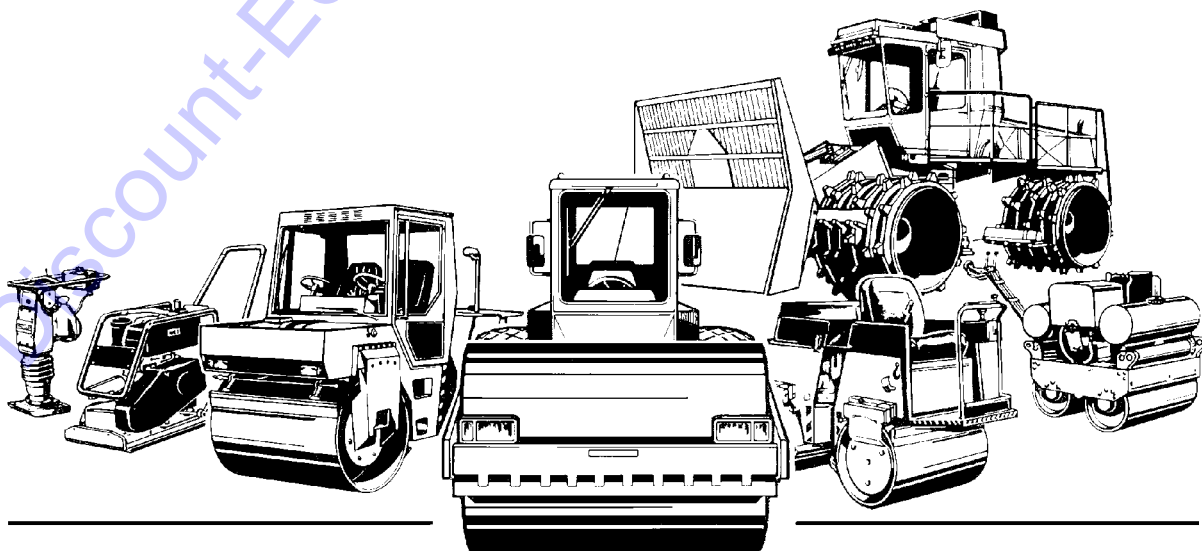
The vibration values according to enclosure 1, paragraph 2.2 or 3.6.3 a of the EEC machine regulation are:

#### Hand-arm-vibration values

The weighted effective acceleration value determined according to ISO 8662 part 1, DIN 45675, part 9 is 4,6 m/sec<sup>2</sup> for BT 50/BT 60. ON 4,2 m/sec<sup>2</sup> for BT 65.

Technical modifications reserved

# Safety regulations



## Safety regulations

This BOMAG machine is built in accordance with the state-of-the-art and the present technical rules and regulations. However, there is a risk of danger for persons and property if:

- the machine is used for purposes other than those it is intended for
- the machine is operated by untrained personnel
- the machine is modified or converted in an unprofessional way
- the applicable safety regulations are not observed.

It is therefore of utmost importance that any person involved in the operation, maintenance and repair of the machine reads and applies these safety regulations. This should be confirmed by obtaining the signatures of the customer, if necessary.

Furthermore the following regulations and instructions are obviously also valid:

- applicable accident prevention instructions
- generally acknowledged safety and road traffic regulations
- country specific regulations.

### 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

### 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.

### Safety notes in the operating and maintenance instructions:

#### **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 machine.

#### **Note**

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

### Loading the machine

Secure the machine against turning over or slipping off.

Persons are highly endangered if they step or stand under loads being lifted.

Always consider that lifted machines may swing about.

Secure the machine on the transport vehicle against slipping off or turning over.

### Starting the machine

#### Before starting

Familiarize yourself with the equipment, the control elements, the working principle of the machine and your working area.

Use your protective outfit (hard hat, safety boots etc.).

Wear ear defenders.

Check before starting whether:

- the machine shows any obvious defects
- all protective devices are properly secured in their place
- all control elements are fully functional
- the machine is free of oily and combustible material
- keep all grips and handles free of grease, oils, fuels, dirt, snow and ice.

Use only machines which have been regularly serviced.

#### Starting in closed rooms

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

#### 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 the fuel tank

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 breathe in fuel fumes.

### 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.

#### 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 breathe 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.

## Safety regulations

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.

### 3 Operation

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.



### 3.1 Tests before commissioning

#### **i** Note

During the running-in period the engine idling speed may be higher than normal, because of the good movability of the engine parts

In this case read just the idling speed on the carburettor, refer to the respective chapter.

The running-in period for the vibratory tamper is 10 operating hours.

#### Check

- Condition of engine and machine
- Fuel tank and fuel lines for leaks
- Fuel level
- Bellows for damage and leaks
- Oil filling in the tamper cylinder
- Visual inspection of the machine

### 3.2 Filling in fuel

#### **!** Danger

Fire hazard!

Only fill in fuel with the engine shut down and the fuel valve closed. Do not spill any fuel!

Do not inhale any fuel fumes.

No fire, do not smoke!

Mixing ratio with two-stroke engine oil 50:1

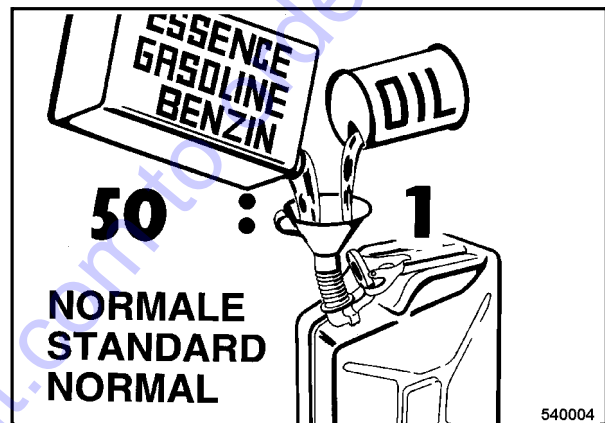


Fig. 1

#### Fuel:

Unleaded standard grade gasoline (Fig. 1).

#### Oil:

Use only two-stroke engine oil, whereby the oil may also have self-mixing abilities.

Unsuitable oil causes premature oil carbon deposits in the outlet manifold of the engine.

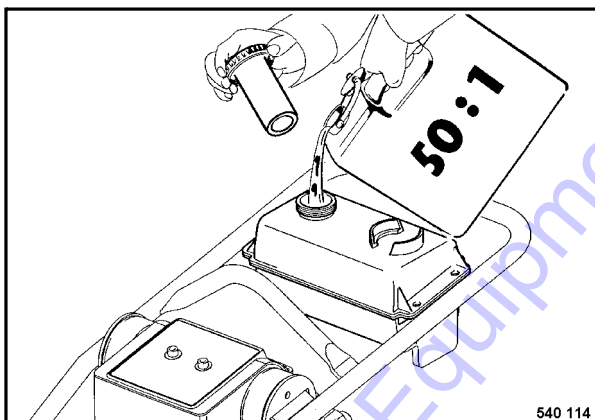
Mixing table

Petrol Liter	2-stroke engine oil	
	Liter	ml
50	1,0	1000
10	0,2	200
5	0,1	100
2	0,04	40

540106e

Fig. 2

- To mix the gasoline with the oil pour both substances into a clean bowl and shake it well for approx. 1 minute (Fig. 2). Do not fill the mixing vessel completely.

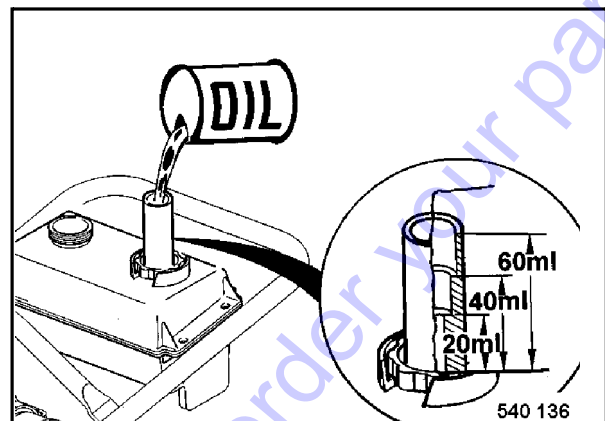


540 114

Fig. 3

- Tank contents max. 3,0 Litres.
- Close the shut-off valve
- After filling close the filler cover tightly (Fig. 3).

oder



540 136

Fig. 4

- estimate the fuel quantity in the tank
- Unscrew the filler cover and stand it upside down into the recess in the tank (Fig. 4).
- If 1 litre is required fill the measuring vessel up to the lowest mark (approx. 20 ml) with two-stroke engine oil and pour it into the tank.
- Fill the tank up with standard grade gasoline.

**i Note**

The second mark on the measuring vessel (approx. 40 ml oil) is enough for 2 litres of fuel.

The upper edge of the measuring vessel (approx. 60 ml oil) is enough for 3 litres of fuel.

### 3.3 Starting the engine

**! Danger**

Danger of accident!

Always hold the machine securely.

Keep your feet away from the tamper foot, since the vibration may start immediately.

Do not leave a running machine unattended.

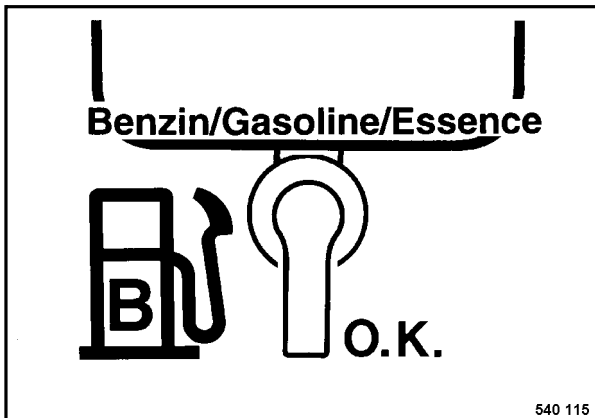


Fig. 1

- Open the fuel valve (Fig. 1).

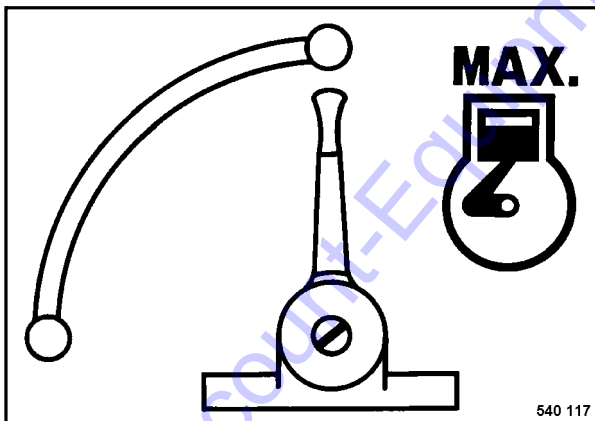


Fig. 2

- Set the throttle lever (Fig. 2) to "MAX"-position.

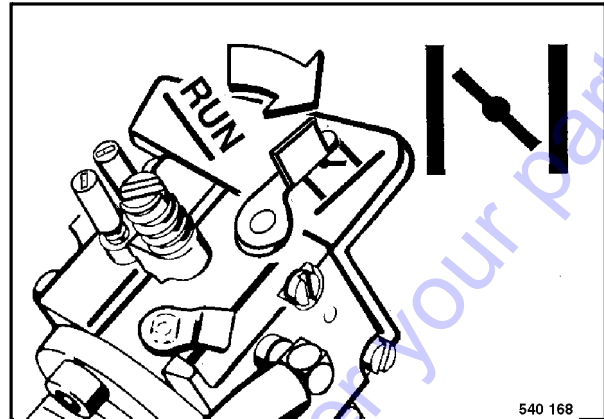


Fig. 3

- Close the choke (Fig. 3), position START or symbol Choke.

**i Note**

Always close the choke if the engine is cold or has cooled down.

Always open the choke when the engine is warm.

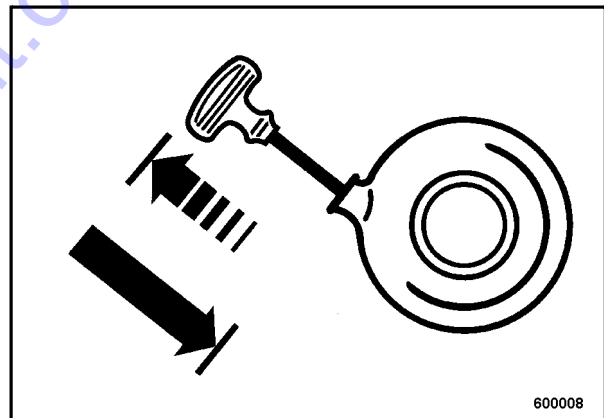


Fig. 4

- Pull the rope with the starter handle (Fig. 4) until a resistance can be felt.
- Now let the starter handle return to initial position.

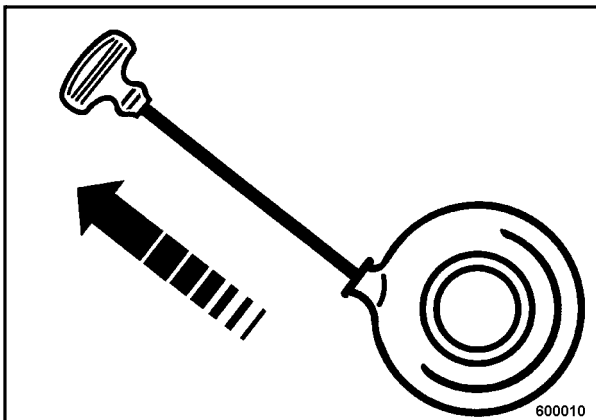


Fig. 5

- Pull the rope with the starter handle quickly and with power out as far as possible (Fig. 5).

**⚠ Caution**

**Do not let the starter handle hit back.**

- Guide the starter rope with your hand back to initial position.
- If the engine does not start with the first try, repeat the starting process.

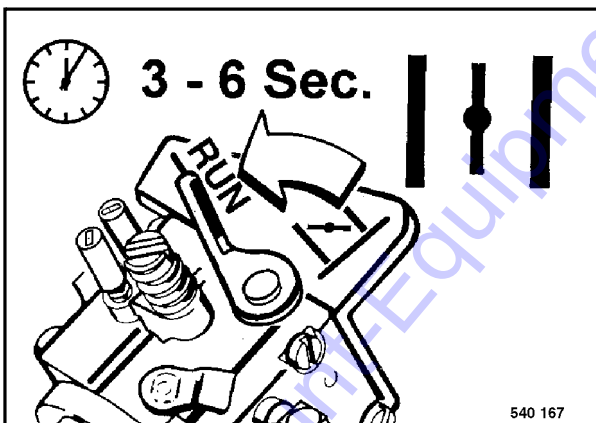


Fig. 6

- Open the choke (Fig. 6) after 3 to 6 seconds, position "RUN".

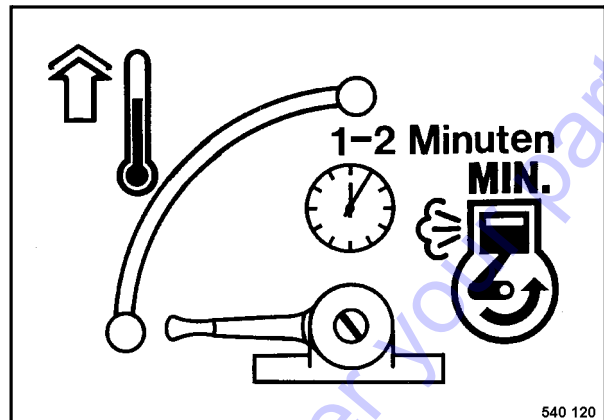


Fig. 7

- Set the throttle lever (Fig. 7) to position "MIN" and warm the engine up for 1 to 2 minutes.

**i Note**

*Once the engine is warm, the tamper can be used for compaction.*

### 3.4 Starting under cold conditions

If the engine stops again after approx. 3 to 5 seconds

- close the choke again (Fig. 5), position "I" and repeat the starting procedure

### 3.5 Incorrect starting

#### - engine "drowned" -

When the choke is closed and the starter rope is operated several times, the engine will draw too much fuel and starting is impossible.

#### Remedy

- Close the fuel shut-off valve
- Open the choke
- Set the throttle lever to full speed position
- Keep on pulling the the starter rope until the engine starts.

If the engine does not start after 10 to 20 starting procedures,

- pull the spark-plug socket off.
- screw the spark-plug out.
- Operate the start several times.
- Dry the spark-plug with a clean cloth or blow it dry with pressure air. If necessary clean it with a wire brush.
- Screw the spark-plug back in and push the spark-plug socket on.
- Repeat the starting procedure.

### 3.6 Work/operation

**! 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).**

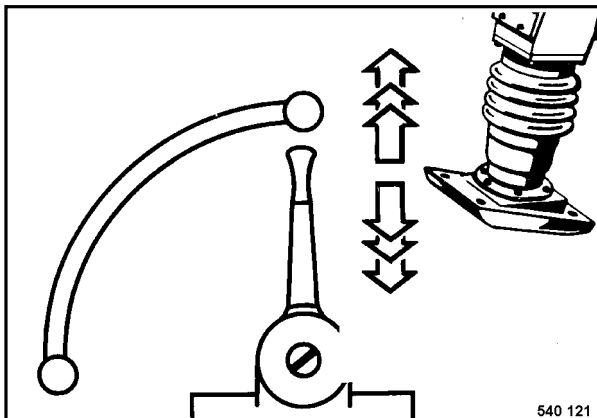


Fig. 1

- Set the throttle lever (Fig. 1) to "MAX"-position.
- The machine works at max. frequency.

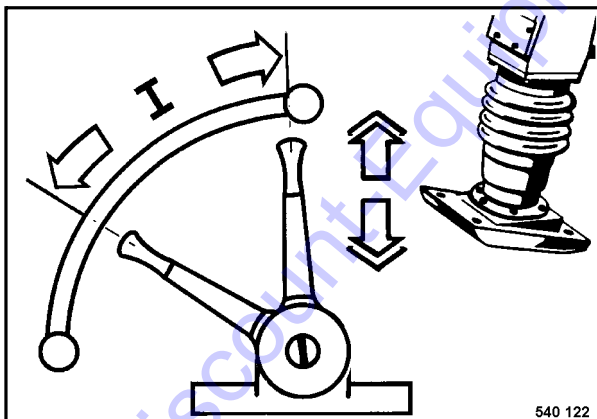


Fig. 2

- In order to achieve a smooth running of the machine adjust the throttle lever in the range I (Fig. 2), depending on the condition and the density of the soil.

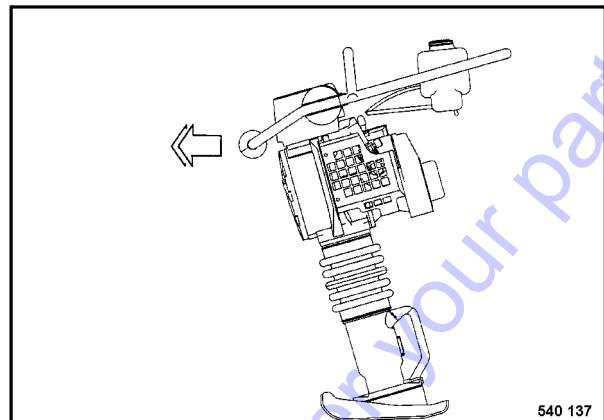


Fig. 3

- The travel speed can be influenced by altering the load on the steering handle (Fig. 3).

No load = slowly forward

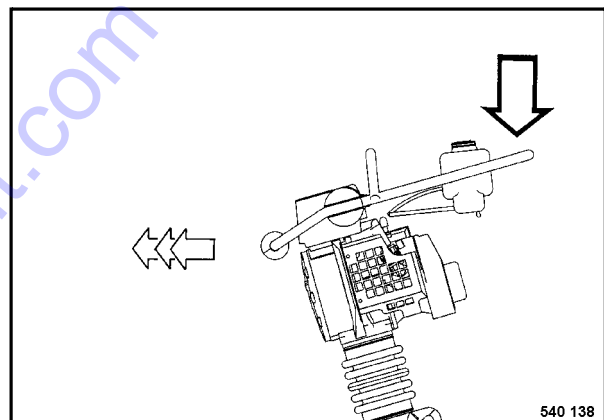


Fig. 4

- The travel speed can also be influenced by varying the pressing force on the steering bow (Fig. 4).

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.*

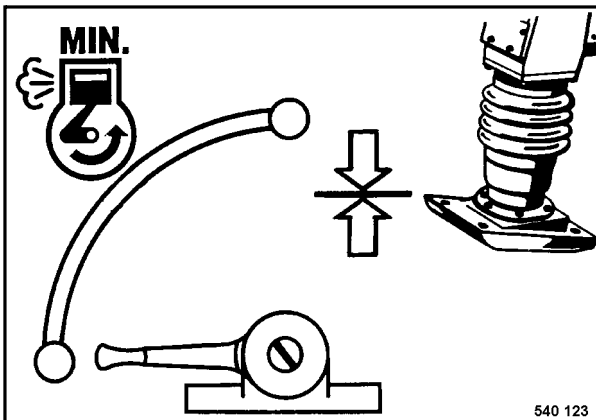


Fig. 5

- During short breaks you should always set the throttle lever to "MIN"-position (Fig. 5).

**i Note**

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

### 3.7 Shutting the engine down

**⚠ Caution**

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

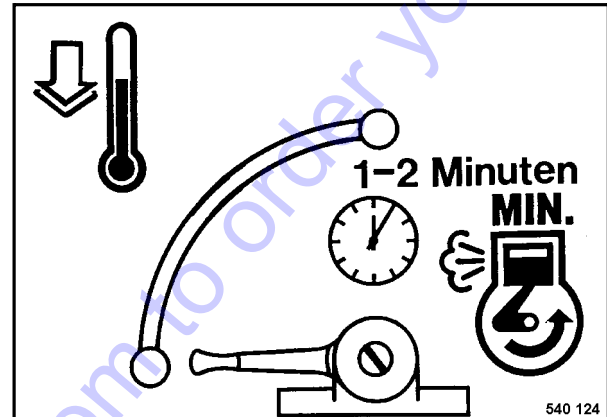


Fig. 1

- Set the throttle lever (Fig. 1) to "MIN"-position.
- Let the engine run at idling speed for a short while.

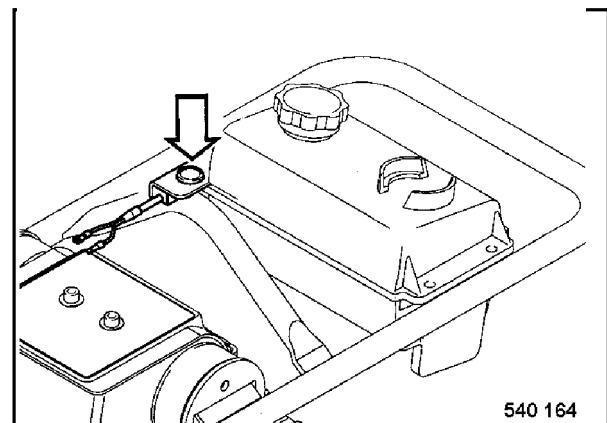


Fig. 2

- Press the stop switch (push button) (Fig. 2).

**⚠ Danger**

**Danger of burning!**

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

Stand the machine so that it cannot fall over.

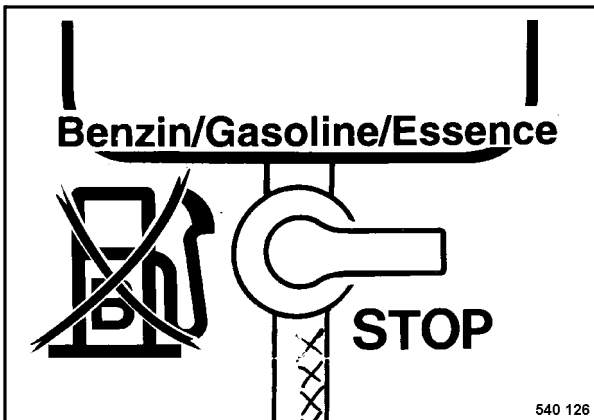


Fig. 3

- Turn the fuel shut-off valve (Fig. 3) to position STOP (closed).

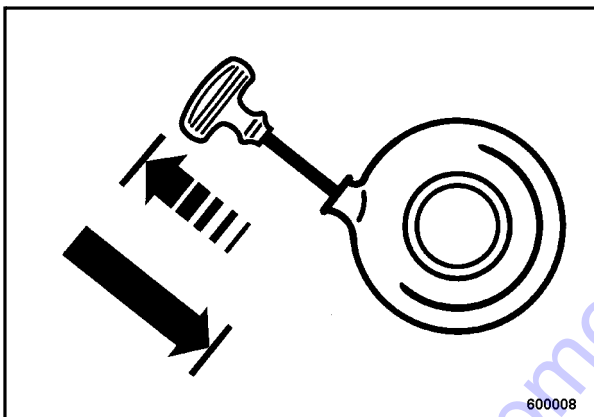


Fig. 4

- Pull the rope with the starter handle (Fig. 4) until a resistance can be felt.
- Now let the starter handle return to initial position.

**i Note**

*This measure avoids moisture deposits in the engine.*

### 3.8 Transport and loading

**! Danger**

**Danger of accident!**

Make sure that no persons are endangered by the machine tipping over or slipping off.

Lash the machine down so that it is properly secured against slipping and turning over.

When lifting the machine attach the lifting gear only to the transverse bar on the guide bow.

The machine should not swing about when being lifted.

Do not step or stand under loads being lifted.

Use only secure lifting gear of sufficient lifting capacity.

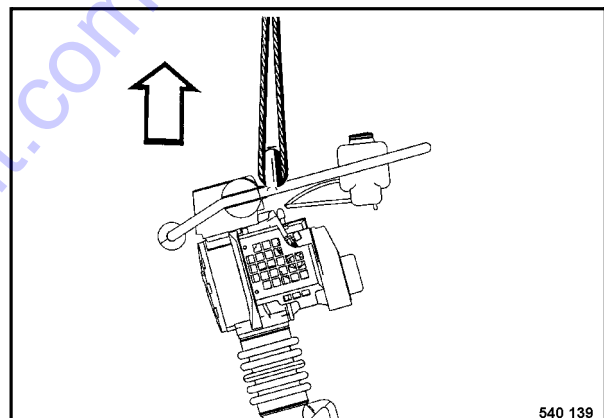


Fig. 1

- To load the tamper attach the lifting gear to the transverse bar on the guide bow (Fig. 1).

**Weights see technical data**



## 4 Maintenance

Go to [Discount-Equipment.com](http://Discount-Equipment.com) to order your parts

## 4.1 General

Pay careful attention to all applicable safety regulations, especially the safety regulations in section 2 of these operating, maintenance and repair instructions when carrying out maintenance work.

Thorough maintenance of the tamper ensures maximum reliability and prolongs the lifetime of important components. The work involved is small when compared with the problems which may occur by not observing these instructions.

- Clean tamper and engine thoroughly.
- Place the tamper on level ground to carry out maintenance work.
- Carry out maintenance work only with the engine shut down.
- Always catch running out oils and fuels environmentally and do not let them seep into the ground. Dispose of oils and fuels environmentally.

### Frequent reasons for failures:

- Faulty operation
- Incorrect, insufficient maintenance

If you can not identify the cause of a failure by following the trouble shooting chart or are not able to eliminate the fault immediately yourself, consult one of our service stations at our branch offices or dealers.

## 4.2 Fuels and lubricants

### Fuel

#### Quality

Use only commercially available brand carburettor fuel.

Use only unleaded standard grade gasoline and mix it with two stroke engine oil at a mixing ratio of 50:1.

#### Two stroke engine oil

Use only two stroke engine oil.

Oil with self-mixing properties may also be used.

#### **i** Note

*Unsuitable oil causes premature carbon deposits in the exhaust channel of the engine.*

Petrol Liter	2-stroke engine oil	
	Liter	ml
50	1,0	1000
10	0,2	200
5	0,1	100
2	0,04	40

540106e

Fig. 1

#### Oil in tamper foot

Use engine oil SAE 90 API GL5.

### 4.3 Maintenance chart

At the various maintenance intervals perform also the work for shorter preceding intervals.

Pos. No.	Description	Note
<b>● daily</b>		
4.4	Clean the machine	
4.5	Check the concertina wall on the tamper	
<b>▼ monthly</b>		
4.6	Tamper foot	
4.7	Check the oil level in the tamper foot	
4.8	Clean the spark-plug, check and replace if necessary	
4.9	Clean the air filter (more frequently under dusty conditions)	
<b>◆ annually</b>		
4.10	Clean the fuel filter in the tank	
4.11	Change the oil in the tamper foot	
<b>As required</b>		
4.12	Change the air filter	
4.13	Adjusting the carburettor	

#### 4.4 Cleaning the machine

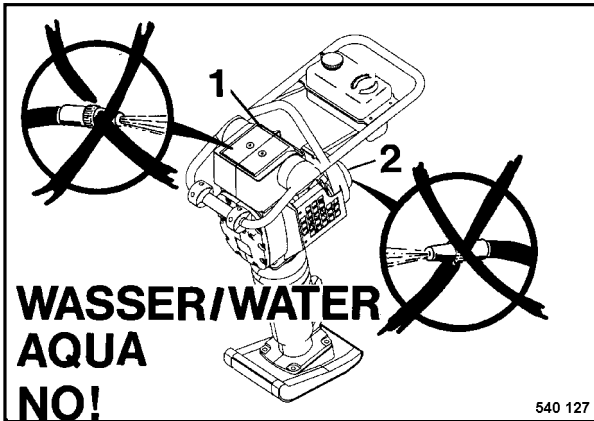


Fig. 1

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

#### 4.5 Checking the bellows on the tamper

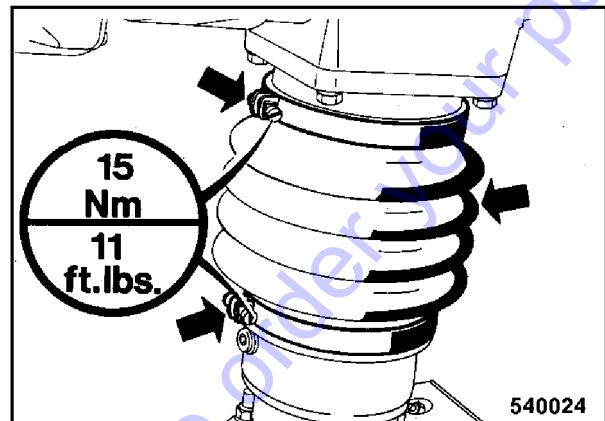


Fig. 2

- Check the condition of the bellows, inspect for damage and tight fit.
- Check the hose clamps for tight fit (Fig. 2).

#### 4.6 Tamper foot plate

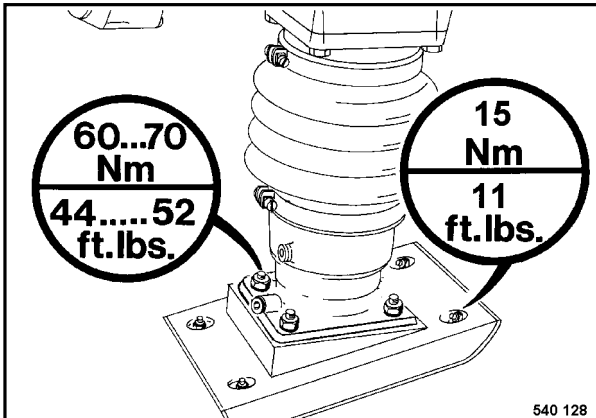


Fig. 1

- Retighten the screws (Fig. 1).

#### 4.7 Checking the oil level in the tamper foot

##### **i** Note

Stand the tamper on level ground and let it rest for while, to allow all oil to run down into the housing.

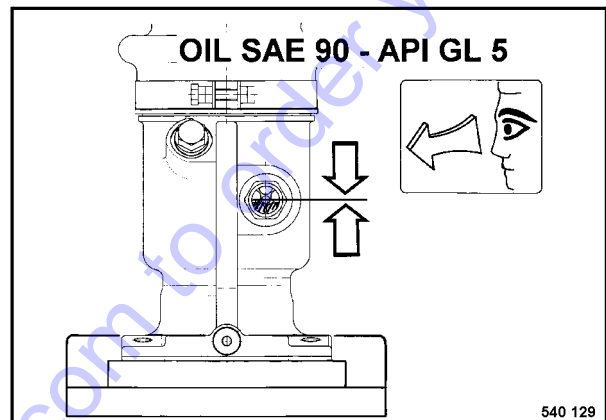


Fig. 2

- Clean the inspection glass (Fig. 2).
- Check the oil level, it must reach the middle of the inspection glass. Top up oil if necessary.

**For quality of oil refer to the paragraph on fuels and lubricants.**

## 4.8 Cleaning the spark-plug, check, replace if necessary

### **! Danger**

Risk of burning!

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

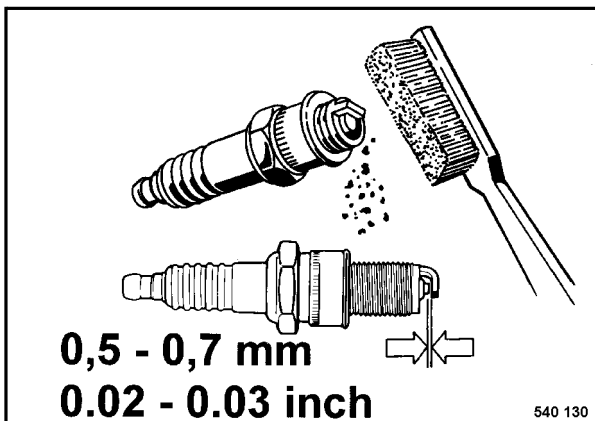


Fig. 3

- Pull the spark-plug socket off.
- Unscrew the spark-plug, inspect the spark-plug visually and clean if necessary (Fig. 3).

### **i Note**

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

- Check the electrode gap with a feeler gauge, if necessary adjust the gap to 0,5...0,7 mm.

### Spark-plugs:

#### BT 50 / BT 60

NGK BR 6HS = 0,6 ... 0,7 mm

WR 7 AC = 0,5 mm

#### BT 65

NGK BMR 6A = 0,6 ... 0,7 mm

WS 8E = 0,5 mm

## 4.9 Cleaning the air filter (more frequently under dusty conditions)

### **i Note**

The contamination of the filter cartridge depends mainly on the proportion of dust in the combustion air drawn in.

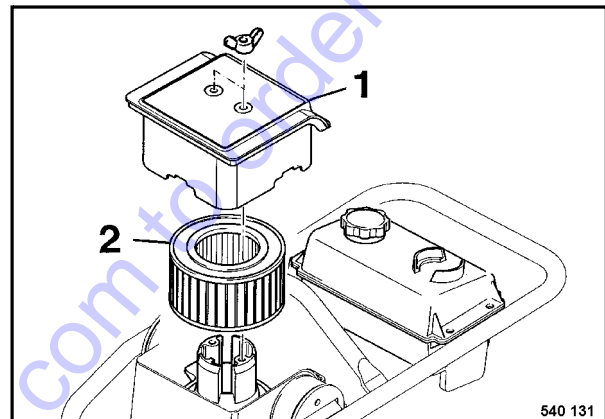


Fig. 4

- Remove the cover 1 (Fig. 4), take the filter cartridge (2) carefully out.

### **! Caution**

Make sure that no dirt falls into the air channel.

### Visual inspection/cleaning

- Replace the filter cartridge if it is soiled with wet or sticky dirt.

### **! Danger**

Eye injury!

Wear protective outfit (protective goggles, gloves).

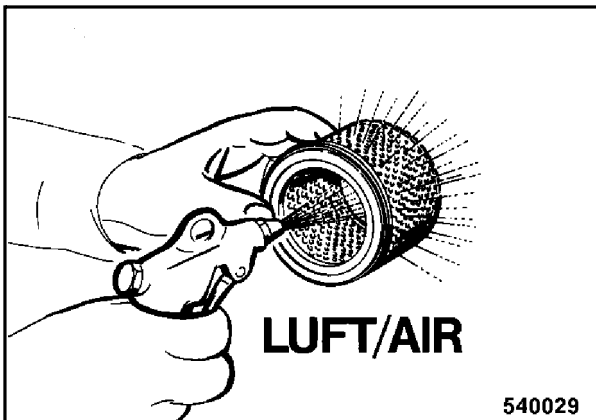


Fig. 5

- In case of dry fine dust blow the filter cartridge out from inside to outside with dry, clean pressure air (Fig. 5), (max. 6 bar).

**i Note**

*Check seals and filter for damage before installation.*

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## 4.10 Cleaning the fuel filter inside the tank

**! 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.**

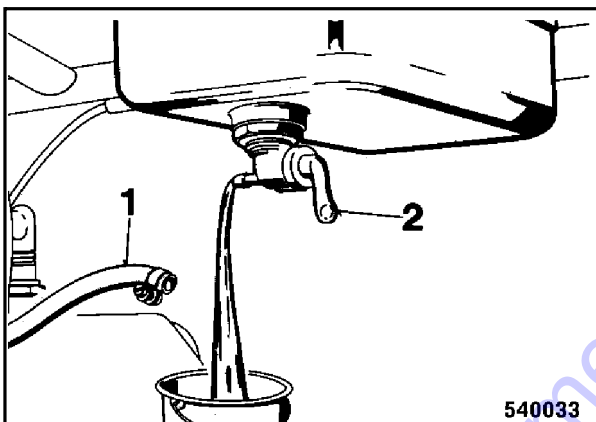


Fig. 1

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

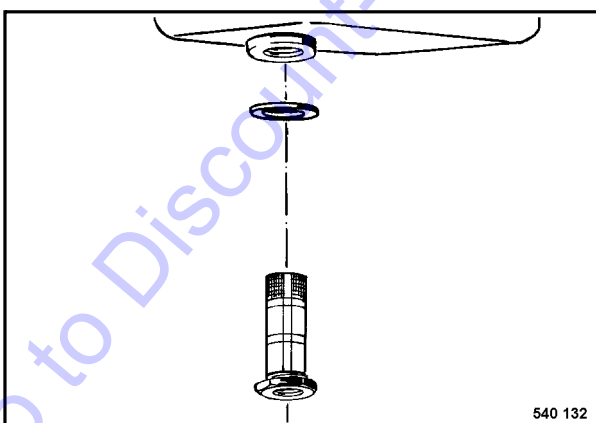


Fig. 2

- Screw the strainer (Fig. 2) out and clean it with gasoline.

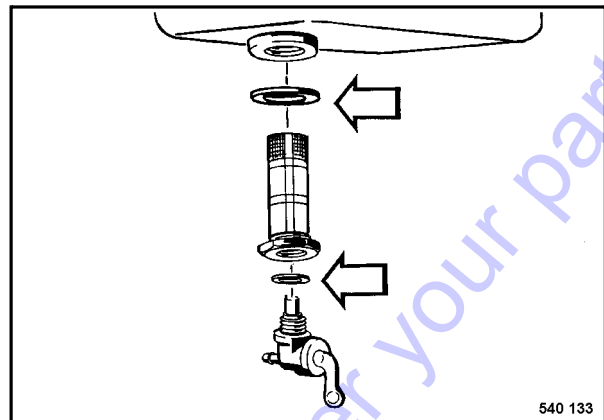


Fig. 3

- Screw the strainer and the fuel shut-off valve in with a new seal each (Fig. 3).



## 4.11 Changing the oil in the tamper foot

### **i Note**

Change the oil at operating temperature.

### **⚠ Caution**

Ensure strict cleanliness.

- Tilt the tamper backwards.

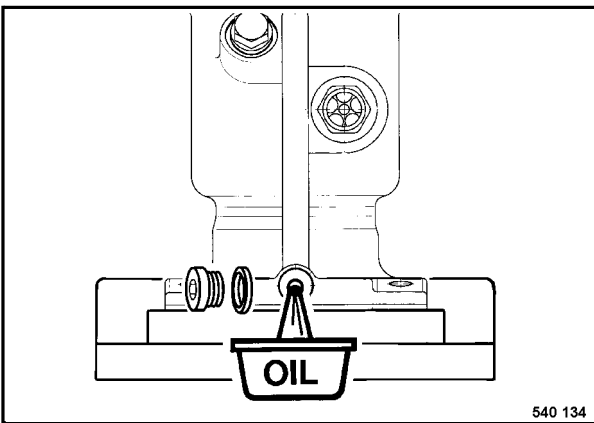


Fig. 4

- Clean the oil drain plug (Fig. 4), screw it out and drain the oil off.

### **Environment**

**Environmental hazard!**

**Catch the old oil and dispose of environmentally.**

- Check the seals on the drain plug, replace if necessary.
- Screw the oil drain plug in and tighten it.

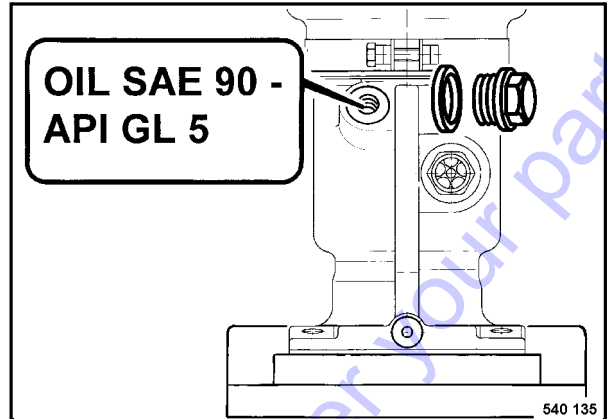


Fig. 5

- Stand the tamper on the foot area.
- Clean the filler plug (Fig. 5) and screw it out.
- Fill in new oil  
 BT 50 = 0,75 l (0.198 USgal)  
 BT 60 = 0,75 l (0.198 USgal)  
 BT 65 = 1,0 l (0.264 USgal)
- Screw the filler plug back in with a new sealing ring.

**For quality of oil refer to the paragraph on fuels and lubricants.**

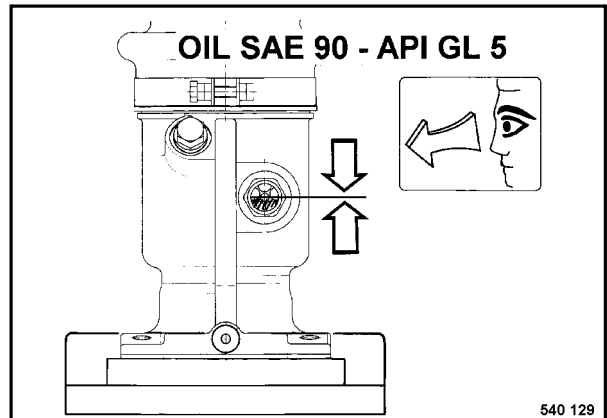


Fig. 6

- Clean the inspection glass (Fig. 6) and check the oil level.
- The oil level must reach the middle of the inspection glass, top up oil if necessary.

## 4.12 Changing the air filter

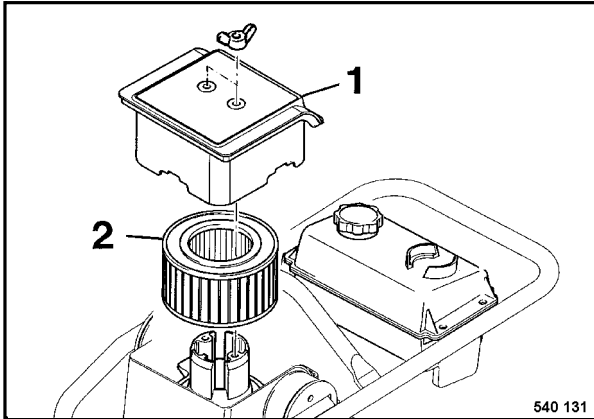


Fig. 1

- Remove the cover 1 (Fig. 1), take the filter cartridge (2) carefully out.

### **⚠ Caution**

Make sure that no dirt falls into the air channel.

### **i Note**

Check seals and filter for damage before installation.

## 4.13 Adjusting the carburettor

### **i Note**

The carburettor is fitted with main and idle speed nozzles, which can be adjusted within a small range. The exhaust values, which can thereby be adjusted, are still below the limit values specified by EPA. If the tamper has to work continually with full load and at high altitudes, the carburettor must be adjusted accordingly.

- Start the engine and run it warm for about 20 minutes.

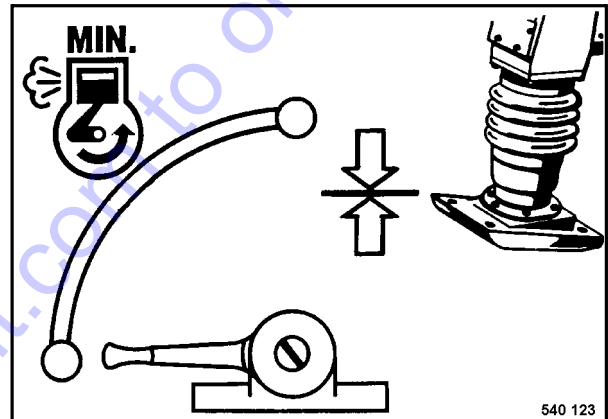


Fig. 2

- Set the throttle lever (Fig. 2) to MIN-position (idle speed).

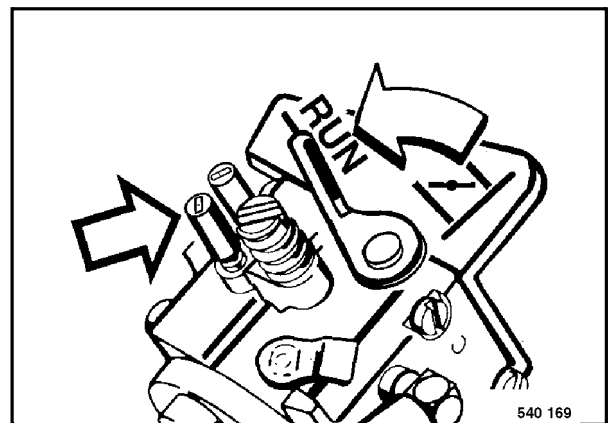


Fig. 3

- Turn the idle speed nozzle (Fig. 3) in clockwise direction, until the idle speed has reached the highest value and engine runs properly.

**i Note**

Turn clockwise to obtain a leaner mix, turn anti-clockwise to obtain a richer mix.

- If the engine runs unregular or produces a metallic sound turn the idle speed nozzle slightly back. The mix will be richer.

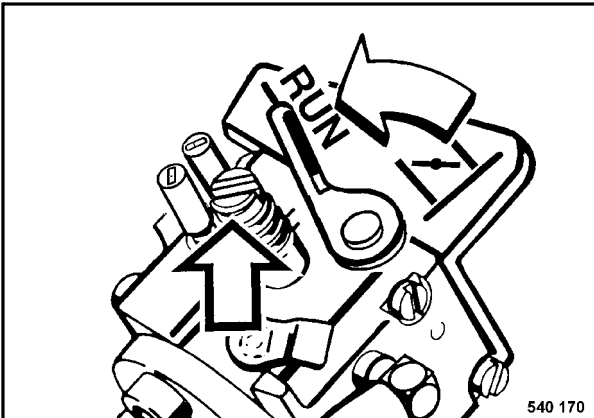


Fig. 4

- Adjust the idle speed to 1700 + 100 rpm by turning the idle speed adjustment screw (Fig. 4).

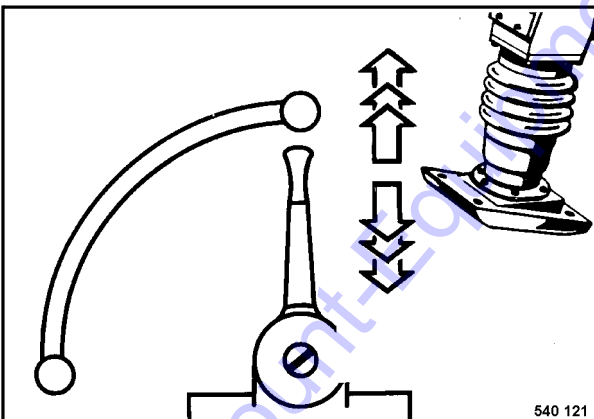


Fig. 5

- Shift the throttle lever (Fig. 5) to MAX-position.

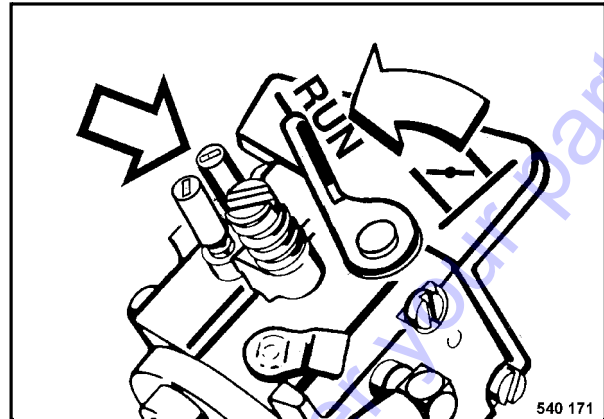


Fig. 6

- Turn the main nozzle (Fig. 6) in clockwise direction.

**i Note**

The engine runs at higher speed and the mix becomes leaner. The exhaust smoke is reduced.

**⚠ Caution**

With increasing operating temperature during use on site the engine will require a slightly richer mix. If the mix is too lean, the engine will overheat and stall.

## 5 Trouble shooting

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

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### 5.1 General notes

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

Faults occur frequently because the machine has not been properly operated or serviced. You should therefore always read these instructions on proper operation and maintenance whenever a fault occurs. If you cannot identify the reason for a fault or cannot eliminate it yourself by following the trouble shooting table, consult one of our service stations at our branch offices and dealers.

On the following pages you find a selection of fault remedies. It goes without saying, that we are not able to list all possible faults.

Go to Discount-Equipment.com to order your parts

## 5.2 Engine

Faults	Possible cause	Remedy
Engine does not start	Fuel tank empty Fuel system blocked Fuel nozzle blocked No spark Shut-down button defective No mix in carburettor	Fill in fuel Clean the strainer in the fuel tank Clean the fuel strainer in the carburettor Clean the fuel nozzle Change the spark plug Have the fault corrected Change the shut-down button Press the push button for 3 seconds
Engine does not crank when operating the starter	Starter defective Spring broken	Change the starter Change the starter
The starter rope of the recoil starter does not return to initial position	Dirty Spring broken	Clean the starter Change the starter
The engine stops frequently in short intervals	Filter in the fuel line blocked Fuel strainer in the carburettor blocked	Change the filter Clean the strainer

## Trouble Shooting

Faults	Possible cause	Remedy
Engine does not run at full speed	Throttle cable defective	Change the throttle cable
	Throttle cable incorrectly adjusted	Adjust the throttle cable
	Air filter blocked	Clean or change the filter cartridge
	Engine defective	Change the engine/have the fault corrected
	Carburettor defective	Change the carburettor
	Exhaust blocked	Clean the exhaust
Engine runs at high speed, but no vibration	Centrifugal clutch defective	Change the centrifugal clutch
	Conrod broken	Call the BOMAG service to change the conrod.

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