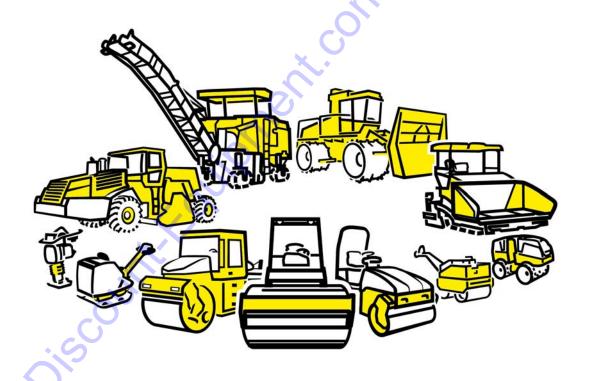


Operating Instruction Maintenance Instruction

Original Operating Instructions

BT 65



S/N 101 541 35 1001> / S/N 101 541 33 2715> / S/N 101 541 34 1001> / S/N 101 541 36 1001>

Tamper



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WARNING: Breathing diesel engine exhaust exposes you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

- Always start and operate the engine in a well-ventilated area.
- If in an enclosed area, vent the exhaust to the outside.
- Do not modify or tamper with the exhaust system.
- Do not idle the engine except as necessary.

For more information go to www.P65warnings.ca.gov/diesel.

WARNING: Crude oil, gasoline, diesel fuel and other petroleum products can expose you to chemicals including toluene and benzene, which are known to the State of California to cause cancer and birth defects or other reproductive harm.

These exposures can occur in and around oil fields, refineries, chemical plants, transport and storage operations such as pipelines, marine terminals, tank trucks and other facilities and equipment.

For more information go to www.P65Warnings.ca.gov/petroleum.

Table of contents

Table of contents

1	Introduction	7
	1.1 Foreword	8
	1.2 Machine type plate and engine type plate	10
2	Technical data	11
	2.1 Noise and vibration data	13
	2.1.1 Noise data	. 13
	2.1.2 Vibration data	. 14
3	Concerning your safety	15
	3.1 Basic prerequisites	. 16
	3.1.1 General	16
	3.1.2 Explanation of signal words used:	. 16
	3.1.3 Personal protective equipment	. 17
	3.1.4 Intended use	
	3.1.5 Improper use	. 18
	3.2 Definition of responsible persons	
	3.2.1 Operating company	. 20
	3.2.2 Expert / qualified person	
	3.2.3 Driver / operator	20
	3.3 Basic safety regulations for safe operation	22
	3.3.1 Remaining dangers, remaining risks	. 22
	3.3.2 Regular safety inspections	. 22
	3.3.3 Modifications and alterations to the machine	. 22
	3.3.4 Damage, defects, misuse of safety devices	. 22
	3.4 Handling fuels and lubricants	. 23
	3.4.1 Preliminary remarks	23
	3.4.2 Safety regulations and environmental protection regulations for handling oil	. 24
	3.4.3 Safety regulations and environmental protection regulations for handling gasoline	25
	3.4.4 Safety regulations and environmental protection regulations for handling fuel stabiliser	. 26
	3.5 Loading/transporting the machine	27
	3.6 Start-up procedure	. 28
	3.6.1 Prior to starting up	. 28
	3.6.2 Starting the engine	. 28
	3.6.3 Operation in trenches	. 29
	3.7 Operation	30
	3.7.1 Persons in the danger area	. 30
	3.7.2 Operation	30
	3.7.3 Parking the machine	30
	3.8 Refuelling	. 31
	3.9 Maintenance work	32
	3.9.1 Preliminary remarks	32
	3.9.2 Working on the engine	32
U	3.9.3 Working on the tamper foot	. 32
	3.9.4 Cleaning work	32
	3.9.5 After maintenance work	32

Table of contents

	3.10 Repair	33
	3.11 Signage	34
4	Indicators and control elements	39
5	Checks prior to start up	41
	5.1 Notes on safety	42
	5.2 Visual inspections and function tests	
	5.3 Checking the engine oil level	44
	5.4 Checking the fuel level; topping up fuel	45
	5.5 Checking the rubber buffers	
6	Operation	47
	6.1 Adjusting the guide handle	
	6.2 Starting the engine	
	6.3 Operation	
	6.4 Parking the machine in secured condition	
	6.5 Operating hour meter/engine rpm-meter	
7	Loading/transporting the machine	
•	7.1 Loading the machine	
	7.2 Lashing the machine to the transport vehicle	
0	Maintenance	
8		
	8.1 Preliminary remarks and safety notes	
	8.2.1 Engine oil	
	8.2.2 Fuel	
	8.2.3 Gear oil SAE 75W-90	
	8.3 List of fuels and lubricants	
	8.4 Running-in instructions	
	8.4.1 General	
	8.4.2 After 25 operating hours	
	8.5 Maintenance Table	
	8.6 Weekly	
	8.6.1 Checking, cleaning the air filter	
	8.7 Monthly	
	8.7.1 Checking the tamper foot	
	8.8 Semi-annually	
	8.8.1 Changing the engine oil	
	8.9 Annually	
	8.9.1 Checking, adjusting the valve clearance	76
	8.9.2 Replacing the spark plug	81
	8.9.3 Replacing the fuel filter	82
	8.9.4 Cleaning the fuel screen	85
	8.9.5 Replacing the air filter	87
	8.9.6 Checking, adjusting the engine speed	89
	8.9.7 Replacing the starter rope	92
	8.9.8 Changing the oil in the tamper foot	94
	8.10 As required	96

Table of contents

	8.10.2 Checking, cleaning the spark plug	
9	Setting up / refitting	
10	Troubleshooting	
10	10.1 Preliminary remarks	
	10.2 Engine faults	
	10.3 What to do if the engine has flooded	
11	Disposal	
• • • • • • • • • • • • • • • • • • • •	11.1 Final shut-down of machine	
12	List of special tools	
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1.1 Foreword

BOMAG manufactures machines for earth, asphalt and refuse compaction, stabilizers/recyclers as well as planers and pavers.

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.

These operating and maintenance instructions are part of your machine.

They provide necessary information to operate your machine safely and properly.

They also contain information on required operating, maintenance and repair measures.

Carefully read the operating and maintenance instructions before taking your machine into operation.

Please observe the safety regulations strictly and follow all instructions to ensure safe operation.

If you are not yet acquainted with the controls and indicating elements on this machine, you should thoroughly read the corresponding chapter & Chapter 4 "Indicators and control elements" on page 39.

The description of the individual operating steps including the notes on safety to be followed can be found in chapter "Operation"

Chapter 6 "Operation" on page 47.

Before every start up, carry out all required visual inspections and function tests % Chapter 5 "Checks prior to start up" on page 41.

Ensure the compliance with the specified operating, maintenance and repair measures to maintain the functional safety of your machine.

A description of all necessary maintenance work, maintenance intervals as well as information on fuels and lubricants can be found in the chapter "Maintenance"

Chapter 8 "Maintenance" on page 63.

Do not service or repair your machine by yourself to avoid harming persons or damaging material or environment.

The machine must only be serviced and repaired by qualified and authorized personnel.

Contact our Customer Service to carry out the required maintenance work or necessary repairs.

In case of operating errors, inadequate maintenance or the use of unapproved fuels and lubricants all warranty claims will become null and void.

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

For your machine we offer service kits to make maintenance easier.

Introduction - Foreword

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.

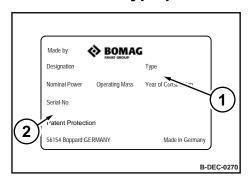
Apart from that, you can also order the spare parts catalogue against the serial number of your machine.

The above notes do not constitute an extension of the warranty and liability conditions specified in the general sales and delivery Je ... your BO. conditions of BOMAG GmbH.

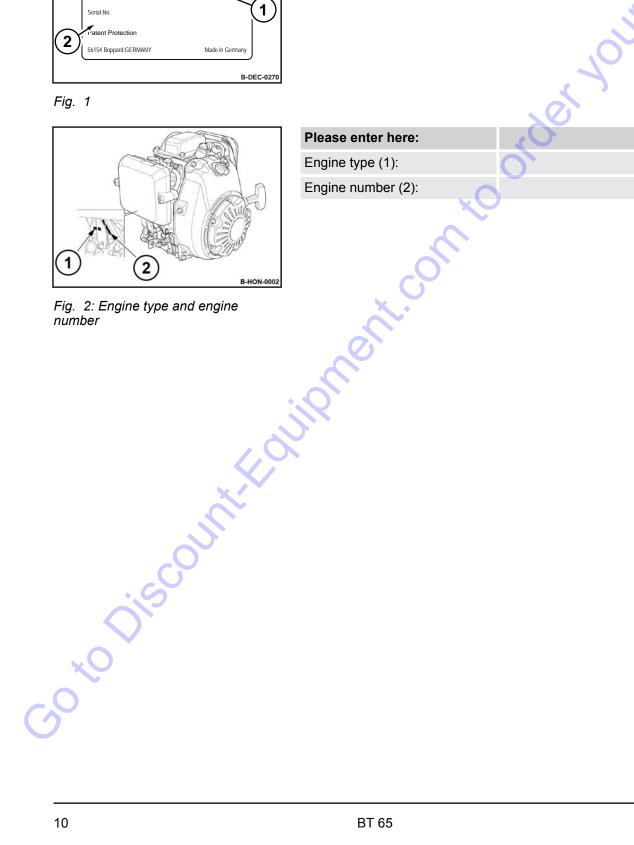
We wish you successful work with your BOMAG machine.

Introduction - Machine type plate and engine type plate

1.2 Machine type plate and engine type plate



Please enter here:	>
Machine type (1):	
Serial number (2):	





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Technical data

Dimensions

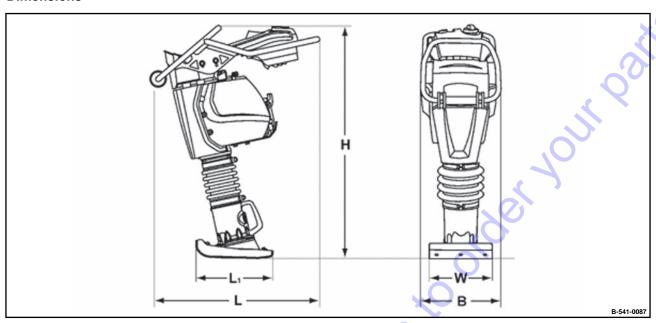


Fig. 3

В	Н	r f Q	L ₁	W
350	1030	728	335	280
(13.8)	(40.6)	(28.7)	(13.2)	(11.0)
Dimensions in millimetres				
(Dimensions in inch)				

Weights		
Basic weight	67	kg
X. The second se	(148)	(lbs)
Operating weight (CECE)	68	kg
	(150)	(lbs)

Travel characteristics		
Max. working speed	20	m/min
	(66)	(ft/min)
Max. area output (depending on soil)	336	m²/h
	(3616)	(ft²/h)

Technical data - Noise and vibration data

Drive		
Engine manufacturer	Honda	>
Туре	GXR 120	
Cooling	Air	500
Number of cylinders	1	4
Displacement	121	cm ³
Rated power SAE J 1349	2.8	kW
	(3.8)	(hp)
Rated speed	4200	min ⁻¹

Exciter system	0,	
Drive system	mecha	nical
Frequency	10 -	11.8 Hz
	(600 -	708) (bpm)
Impact force		17 kN
	(3	822) (lbf)

Filling capacities		
Fuel (gasoline)	3.0	1
	(8.0)	(gal us)

2.1 Noise and vibration data

The following noise and vibration data were determined in accordance with the following guidelines under equipment specific conditions and by using harmonized standards:

- EU Machine Directive edition 2006/42/EU
- Noise Emission Directive 2000/14/EU, Noise Protection Directive 2003/10/EU
- Vibration Protection Directive 2002/44/EU

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

2.1.1 Noise data

Sound pressure level at the operator's stand

 L_{DA} = 93 dB(A), determined acc. to ISO 11201 and EN 500.

BT 65 13

Technical data - Noise and vibration data

WARNING!

Loss of hearing caused by too high noise burdens!

Wear your personal protective equipment (ear protection).

Guaranteed sound power level

 L_{WA} = 108 dB(A), determined acc. to ISO 3744 and EN 500.

2.1.2 Vibration data

Hand-arm vibration

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

Total vibration value a_{hv} = 5.5 \text{ m/s}^2 on crushed rock determined acc. to EN 500/ISO 5349.

Associated uncertainty K = 0.8 m/s², determined acc. to EN 12096.

Observe the daily vibration load (work safety acc. to 2002/44/EC).

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Concerning your safety – Basic prerequisites

3.1 Basic prerequisites

3.1.1 General

This 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, the operating company must obtain the relevant signatures as confirmation.

Furthermore, the following obviously also applies:

- applicable accident prevention instructions,
- generally accepted safety and road traffic regulations,
- country/state specific safety regulations.

It is the duty of the operator to be acquainted with the safety regulations and to apply these accordingly. This also applies for local regulations and regulations concerning different types of handling activities. 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.

3.1.2 Explanation of signal words used:



DANGER!

Danger to life if failing to comply!

Sections marked accordingly indicate an extremely dangerous situation that could lead to fatal or severe injuries, if this warning is disregarded.



WARNING!

Danger to life or danger of severe injuries if failing to comply!

Sections marked accordingly indicate a dangerous situation that could lead to fatal or severe injuries, if this warning is disregarded.

Concerning your safety - Basic prerequisites



CAUTION!

Danger of injury if failing to comply!

Sections marked accordingly indicate a dangerous situation that could lead to fatal or severe injuries, if this warning is disregarded.



NOTICE!

Danger of material damage if failing to comply! Sections marked accordingly indicate possible dangers for machines or components.



Sections marked accordingly indicate technical information or notes on using the machine or its components.



ENVIRONMENT!

Environmental damage if failing to comply!

Paragraphs marked accordingly indicate practices for safe and environment-friendly disposal of fuels and lubricants as well as replacement parts.

3.1.3 Personal protective equipment

Depending on the work to be carried out, personal protective equipment is required (to be provided by the operating company):

Working clothes	Tight fitting working clothes with low tear resistance, tight sleeves and without any projecting parts protect against being caught by moving components.
Safety shoes	To protect against heavy falling parts and slipping on slippery ground.
Protective gloves	To protect the hands against excoriation, punctures or deep injuries, against irritating and caustic substances as well as against burns.

BT 65 17

Concerning your safety - Basic prerequisites

Safety goggles	To protect the eyes against airborne particles and squirting fluids.
Face protection	To protect the face against airborne particles and squirting fluids.
Hard hat	To protect the head against falling parts and to protect against injuries.
Hearing protection	To protect hearing against excessive noise.
Respiratory protection	To protect respiratory tracts against substances or particles.

3.1.4 Intended use

This machine must only be used for:

- Compaction of all types of soils
- Repair work on all types of soil
- Paving of walkways
- Work in trenches
- Underfilling and compaction of hard shoulders

Intended use also includes compliance with the specified operating, maintenance and repair measures.

3.1.5 Improper 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 improper use is the sole responsibility of the operating company or driver/operator, the manufacturer cannot be made liable.

Concerning your safety - Basic prerequisites

Examples for improper use are:

- Working in horizontal direction
- Ramming of poles
- Vibrating of paving blocks

e while work ...in explosive envil ...ited.

Concerning your safety - Definition of responsible persons

3.2 Definition of responsible persons

3.2.1 Operating company

The operating company is the natural or juridical person who uses the machine or in who's name the machine is used.

The operating company must make sure that the machine is only used for the purpose it is intended for and in strict compliance with the safety regulations mentioned in these operating and maintenance instructions.

The operating company must determine and assess the danger in its company. It must then take appropriate action to ensure health and safety at work for its employees and point out any remaining dangers.

The operating company must determine whether there are special operational hazards such as a toxic atmosphere or limiting soil conditions. Such conditions require special, additional measures to remove or reduce the hazard.

The operating company must make sure that all users read and understand the information concerning safety.

The operating company is responsible for the planning and professional execution of regular safety inspections.

3.2.2 Expert / qualified person

An expert / qualified person is a person who, based on his/her professional education and experience, has profound knowledge in the field of construction equipment and the machine in question in particular.

This person is acquainted with the applicable governmental industrial safety regulations, accident prevention instructions, guidelines and generally acknowledged technical rules and regulations (standards, directives, technical rules of other member states of the European Union or other contractual states concerning the agreement about the European Economic Area) in as far as is necessary to be able to judge the safe condition of this machine.

3.2.3 Driver / operator

This machine must only be operated by trained, instructed persons entrusted by the operating company aged 18 or more.

Observe your local laws and regulations.

Rights, obligations and rules of conduct for driver or operator:

The driver or operator must:

- be instructed about his rights and obligations,
- wear protective equipment as appropriate for the application,
- have read and understood the operating instructions,

Concerning your safety - Definition of responsible persons

- have made himself familiar with the operation of the machine,
- be physically and psychologically able to drive and operate the

aficknown and specialis Persons under the influence of alcohol, medication or drugs are not allowed to operate, service or repair the machine.

Maintenance and repair work requires specific knowledge and

Concerning your safety – Basic safety regulations for safe operation

3.3 Basic safety regulations for safe operation

3.3.1 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.

Both the machine as well as all other system components comply with the currently valid safety regulations. Nevertheless, remaining risks cannot be ruled out completely, even when using the machine for the purpose it is intended for and following all information given in the operating instructions.

A remaining risk can also not be excluded beyond the actual danger zone of the machine. Persons remaining in this area must pay particular attention to the machine, so that they can react immediately in case of a possible malfunction, an incident or failure etc.

All persons remaining in the area of the machine must be informed about the dangers that arise from the operation of the machine.

3.3.2 Regular safety inspections

Have the machine inspected by an expert / qualified person as required for the conditions the machine is working under, but at least once every year.

3.3.3 Modifications and alterations to the machine

Unauthorized changes to the machine are prohibited for safety reasons.

Original parts and accessories have been specially designed for this machine.

We wish to make explicitly clear that we have not tested or approved any parts or accessories not supplied by us.

The installation and/or use of such products may have an adverse effect on the active and/or passive safety.

3.3.4 Damage, defects, misuse of safety devices

Machines which are not safe to operate or in traffic 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.

Concerning your safety - Handling fuels and lubricants

3.4 Handling fuels and lubricants

3.4.1 Preliminary remarks

The operating company must ensure that all professional users have read and follow the corresponding safety data sheets for the individual fuels and lubricants.

Safety data sheets provide valuable information about the following characteristics:

- name of substance
- possible dangers
- composition / information on constituents
- first-aid measures
- fire fighting measures
- measures in case of accidental release
- handling and storage
- limitation and monitoring of exposure / personal protective equipment
- physical and chemical properties
- stability and reactivity
- toxicological data
- environmental data
- notes on waste disposal
- information on transport
- legislation
- other data

BT 65 23

Concerning your safety - Handling fuels and lubricants

3.4.2 Safety regulations and environmental protection regulations for handling oil

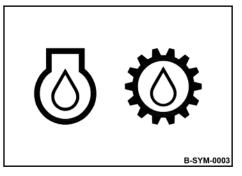


Fig. 4



WARNING!

Danger of burning by ignited oil!

- Do not allow oil to come into contact with hot components.
- Smoking and open fire is prohibited!
- Wear your personal protective equipment (protective gloves, protective clothing).



CAUTION!

Health hazard caused by contact with oil!

- Wear your personal protective equipment (protective gloves, protective clothing).
- Do not inhale any oil vapours.
- Avoid contact.



CAUTION!

Danger of slipping on spilled oil!

Immediately bind spilled oil with an oil-binding agent.



ENVIRONMENT!

Oil is an environmentally hazardous substance!

- Always keep oil in proper containers.
- Immediately bind spilled oil with an oil-binding agent.
- Dispose of oil and oil filter according to regulations.

Concerning your safety – Handling fuels and lubricants

3.4.3 Safety regulations and environmental protection regulations for handling gasoline

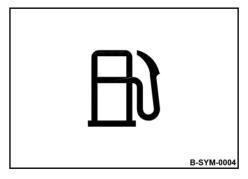


Fig. 5



DANGER!

Danger to life caused by explosive gas-air mixes!

- Do not allow gasoline to come into contact with hot components.
- Smoking and open fire is prohibited.
- Keep away from heat sources, sparks and other sources of ignition.
- Do not spill any gasoline.



WARNING!

Health hazard caused by contact with gasoline!

- Wear your personal protective outfit (protective gloves, protective clothing).
- Do not inhale any fuel fumes.
- Do not swallow gasoline.
- Avoid contact with gasoline.



ENVIRONMENT!

Gasoline is an environmentally hazardous substance!

- Always keep gasoline in proper containers.
- Immediately bind spilled gasoline with an oilbinding agent and dispose of in accordance with regulations.
- Dispose of gasoline and fuel filter according to regulations.

BT 65 25

Concerning your safety - Handling fuels and lubricants

3.4.4 Safety regulations and environmental protection regulations for handling fuel stabiliser



WARNING!

Danger of burning by ignited fuel stabilizer!

- Do not allow fuel stabilizer to come into contact with hot components.
- Smoking and open fire is prohibited.



WARNING!

Health hazard caused by contact with fuel stabilizer!

- Wear your personal protective outfit (protective gloves, protective clothing).
- Do not inhale any fuel stabilizer fumes.
- Do not swallow fuel stabilizer.
- Avoid contact with fuel stabilizer.



ENVIRONMENT!

Fuel stabilizer is an environmentally hazardous substance!

- Immediately bind spilled fuel stabilizer with an oil-binding agent and dispose of according to regulations.
- Dispose of fuel stabilizer according to regulations.

Concerning your safety - Loading/transporting the machine

3.5 Loading/transporting the machine

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

Do not use damaged or in any other way impaired lashing points.

Always use appropriate lifting and lashing means on the lifting and lashing points.

Use lifting and lashing gear only in the prescribed direction of load application.

Lifting tackle must not be damaged by machine components.

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

Loads must only be attached and hoisted by an expert / capable person.

Use only lifting gear and lifting tackle with sufficient load bearing capacity for the weight to be loaded.

Fasten the lifting gear only at the specified lifting points.

Danger to the life of persons if they step or stand under a suspended load.

When lifting the machine avoid uncontrolled movements of the load. If necessary hold the load with guide ropes.

BT 65 27

Concerning your safety – Start-up procedure

3.6 Start-up procedure

3.6.1 Prior to starting up

Use only machines which are serviced at regular intervals.

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

Use your personal protective equipment (hard hat, safety boots, if necessary also goggles and ear protection).

Do not take any loose objects with you or fasten them to the machine.

Before start up, check whether:

- persons or obstructions are beside or in front of the machine,
- the machine is free of oily and combustible materials,
- all safety elements are in place,
- all grips are free of grease, oils, fuel, dirt, snow and ice.

Before start up, carry out all required visual inspections and function tests.

If the following tests reveal damages or other faults, the machine must not be operated, until these deficiencies have been corrected.

Do not operate the machine with defective indicators and control elements.

3.6.2 Starting the engine

Do not use any starting aids like start pilot or ether.

The machine must not be operated with damaged, missing or non-functional safety installations.

Before starting and moving the machine make sure that there are no persons inside the danger zone.

Keep your feet clear of the tamper foot plate.

Always keep an eye on the machine when the engine is running and hold it by the steering bow.

Do not inhale exhaust fumes, because they contain toxic substances, which could cause damage to health, unconsciousness or even death.

Avoid operation in closed or partly closed rooms, or ensure adequate ventilation when working in trenches.

3.6.3 Operation in trenches



Applies only to Germany.

The vibratory tamper or the vibratory plate were tested outdoors by BG Bau (Germany) regarding CO emissions. The tests were carried out in a trench with a width of 1.5 metres, a depth of 3 metres and a length of 10 metres.

These test showed CO emissions below the occupational exposure limit (OEL) according to TRGS 900 when operating a maximum of 4 times 15 minutes per shift (8 hours).

For this reason, take care to ensure sufficient ventilation when operating the vibratory tamper or vibratory plate in more than shoulder-deep trenches which have a width of less than 1.5 metres, a maximum depth of less than 3 metres or a maximum length of less than 10 metres. 30 to Discountification of the second of the

BT 65 29

Concerning your safety - Operation

3.7 Operation

3.7.1 Persons in the danger area

Before taking up work, also after breaks, you should always convince yourself that the danger zone is free of persons or obstructions.

Give warning signals, if necessary. Stop work immediately if persons remain in the danger zone, despite the warning.

3.7.2 Operation

Steer the machine only be the steering bow.

Guide the machine so hat your hands do not hit against solid objects.

Watch out for unusual noises and development of smoke. Perform trouble shooting and have the fault corrected.

3.7.3 Parking the machine

Park the machine on horizontal, level, firm ground.

Before leaving the machine:

- Shut down the engine,
- Secure the machine against accidental tipping over,
- Secure the machine against unauthorized use.

Mark machines, which could be in the way, with a clearly visible sign.

Concerning your safety - Refuelling

3.8 Refuelling

Do not inhale any fuel fumes.

Refuel only with the engine shut down.

Do not refuel in closed rooms.

No open fire, do not smoke.

Keep away from ignition and heat sources.

Apply measures against electrostatic charging.

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

Wipe off spilled fuel. Keep dirt and water away from the fuel.

A leaking fuel tank can cause an explosion. Ensure tight fit of the fuel tank cover, if necessary replace immediately.

Concerning your safety – Maintenance work

3.9 Maintenance work

3.9.1 Preliminary remarks

Adhere to the specified operating, maintenance and repair measures.

The machine must only be serviced by qualified personnel authorised by the operating company.

Keep unauthorised persons away from the machine.

Perform maintenance work only with the engine shut down and the spark plug connector disconnected.

Make sure that the engine cannot be accidentally started during maintenance work.

3.9.2 Working on the engine

Drain the engine oil at operating temperature – danger of scalding!

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

When working on the air filter no dirt should fall into the air duct.

Do not work on the hot exhaust - danger of burning!

Store used filters and other oil contaminated materials in a separate, specially marked container and dispose of environmentally.

3.9.3 Working on the tamper foot

Drain the tamper foot oil at operating temperature – danger of scalding!

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

Store oil contaminated materials in a separate, specially marked container and dispose of environmentally.

3.9.4 Cleaning work

Do not perform cleaning work while the motor is running.

Allow the engine to cool down before starting cleaning work.

Do not use gasoline or other easily inflammable substances for cleaning.

3.9.5 After maintenance work

Reassemble all guards and protections.

3.10 Repair

Identify a defect machine with a warning sign.

Only operate the machine after it has been repaired.

expert/qualifier

expert/quali When replacing safety relevant components, only original spare parts must be used.

Concerning your safety - Signage

3.11 Signage

Keep stickers and signage in good and legible condition and comply with their meaning.

Replace damaged and illegible stickers or signage immediately.

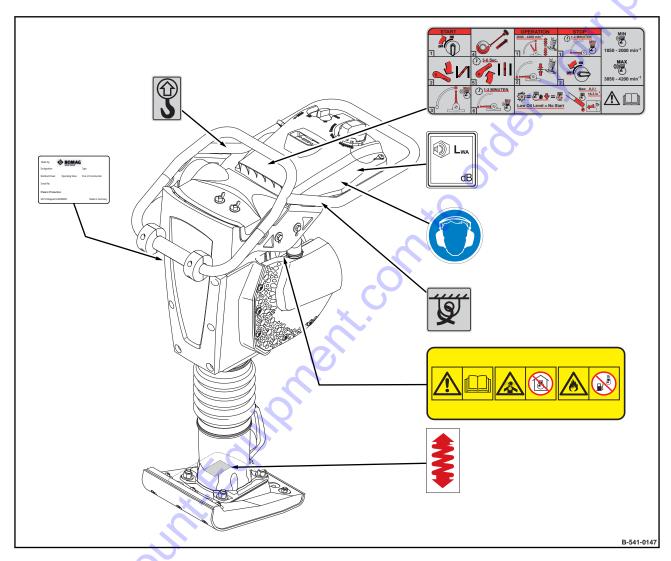
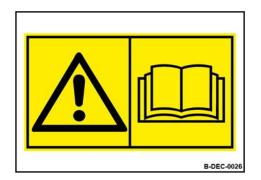


Fig. 6

Concerning your safety – Signage



Warning sticker - Follow operating instructions

Fig. 7



Warning sticker - Do not inhale exhaust gases
Do not operate inside closed areas.

Fig. 8



Warning sign - Fire hazard

Fill up with fuel only when engine is stopped and has cooled down.

Fig. 9

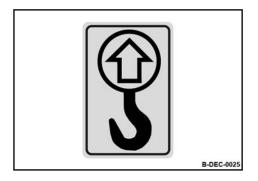


Instruction sticker - Wear ear defenders

Fig. 10

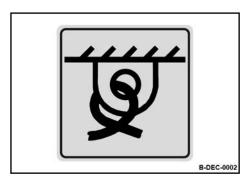
BT 65 35

Concerning your safety - Signage



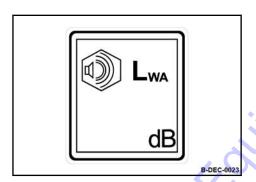
Information sticker - Lifting point

Fig. 11



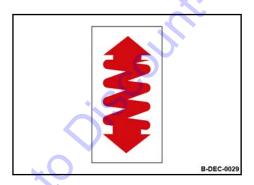
Information sticker - Lashing point

Fig. 12



Information sticker - Guaranteed sound capacity level

Fig. 13



Information sticker - pre-tensioned spring

Fig. 14

Concerning your safety - Signage

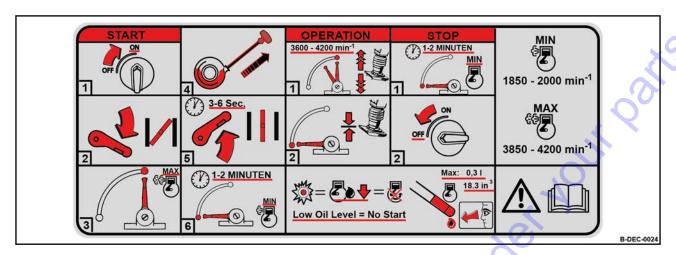


Fig. 15

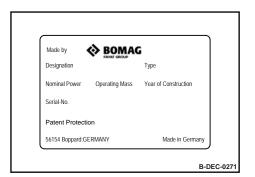


Fig. 16

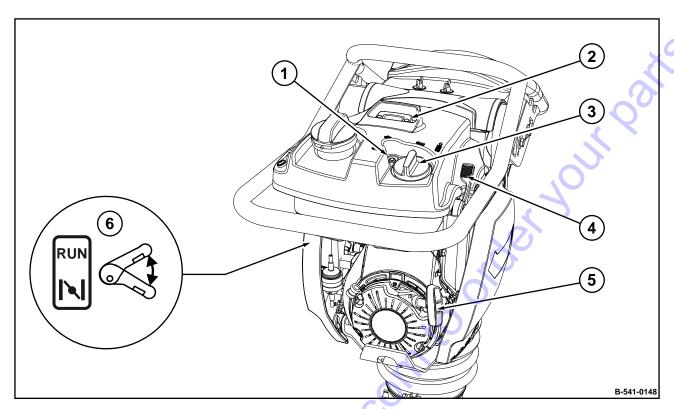
Brief operating instructions

Machine type plate (example)



ments of the partition of the partition

Indicators and control elements



Fia. 17

- 1 Engine oil level warning light
- 2 Operating hour meter/engine rpm-meter
- 3 Engine stop switch
- 4 Throttle lever
- 5 Recoil starter
- 6 Choke lever

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Checks prior to start up - Notes on safety

5.1 Notes on safety

If the following tests reveal damages or other defects, the machine must not be operated, until these deficiencies have been corrected.

Do not operate the machine with defective indicators and control elements.

Safety installations must not be removed or made ineffective

Do not change any fixed settings.



WARNING!

Health hazard caused by fuels and lubricants!



WARNING!

Danger of injury caused by rotating parts!

- Before starting work on the machine make sure that the engine can not be started.
- 1. Park the machine safely $\$ Chapter 6.4 "Parking the machine in secured condition" on page 55.

amage. John South Rollinger Louis Control of the Co Checks prior to start up - Visual inspections and function tests

Checks prior to start up - Checking the engine oil level

5.3 Checking the engine oil level



NOTICE!

Danger of engine damage!

+Use only oil of the permitted specification
 Chapter 8.2.1 "Engine oil" on page 65.



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

Protective equipment: Working clothes

Protective gloves

- Park the machine so that the tamper foot is in horizontal position.
- 2. Clean the area around the oil dipstick (1).
- 3. Unscrew the dipstick and wipe it clean with a lint-free, clean cloth.
- 4. Insert the dipstick into the oil filler socket, do not screw it in, but pull it out again to check the oil level.





NOTICE!

Danger of engine damage!

Do not overfill the engine.

The oil level must always be between the "MIN"- and "MAX"-marks. If the oil level is too low, top up oil to the "MAX" mark immediately.

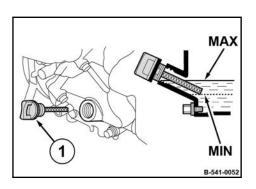


Fig. 18

5.4 Checking the fuel level; topping up fuel



DANGER!

Danger to life caused by explosive gas-air mixes!

- Do not allow gasoline to come into contact with hot components.
- Smoking and open fire is prohibited.
- Keep away from heat sources, sparks and other sources of ignition.
- Do not spill any gasoline.



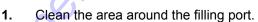
NOTICE!

Danger of engine damage!

- Monitor the entire refuelling process.
- Contaminated fuel can cause malfunction or even damage of the engine. If necessary, fill in fuel through a screen filter.
- Use only fuel of the permitted specification
 ♦ Chapter 8.2.2 "Fuel" on page 65.

Protective equipment:

- Working clothes
- Safety shoes
- Protective gloves



- 2. Remove the cap and check the filling level visually.
- 3. Fill in fuel through a funnel with screen filter.
- 4. Close the cap.

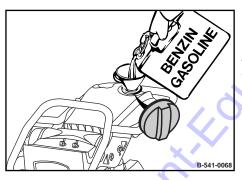


Fig. 19

Checks prior to start up - Checking the rubber buffers

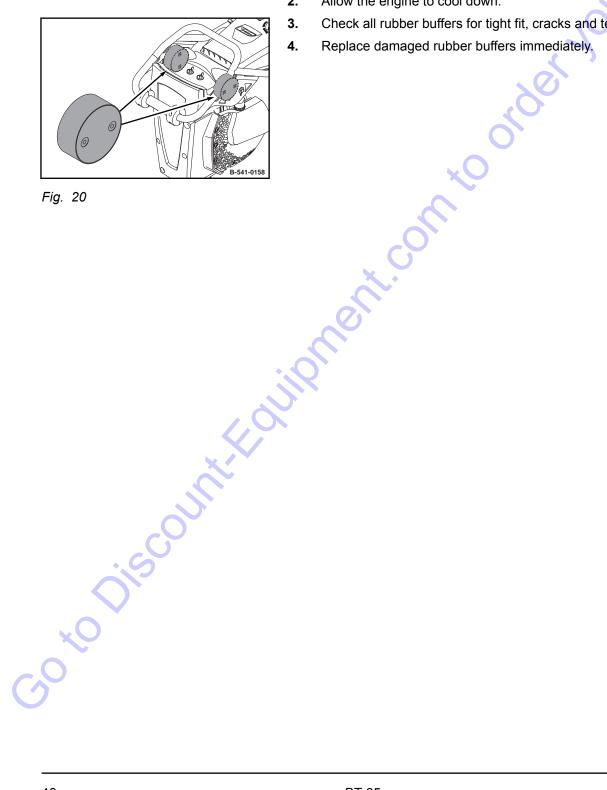
5.5 Checking the rubber buffers

Protective equipment: Working clothes

Safety shoes

Protective gloves

- Park the machine safely \$ Chapter 6.4 ",Parking the machine 1. in secured condition" on page 55.
- 2. Allow the engine to cool down.
- 3. Check all rubber buffers for tight fit, cracks and tear-offs.



Goto Discount Editioner to order your parts

Operation - Adjusting the guide handle

6.1 Adjusting the guide handle

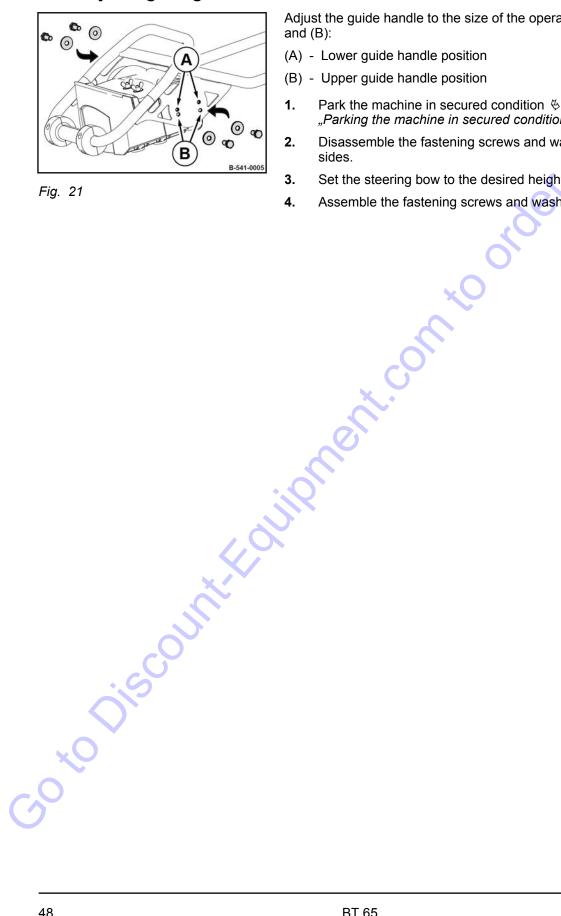


Fig. 21

Adjust the guide handle to the size of the operator using bores (A) and (B):

- (A) Lower guide handle position
- (B) Upper guide handle position
- Park the machine in secured condition & Chapter 6.4 1. "Parking the machine in secured condition" on page 55.
- Disassemble the fastening screws and washers on both 2.
- Set the steering bow to the desired height. 3.
- Assemble the fastening screws and washers on both sides.

6.2 Starting the engine

Exhaust fumes contain toxic substances and can damage your health, cause unconsciousness or even death.



WARNING!

Danger of poisoning by exhaust gases!

- Do not inhale exhaust gases.
- Avoid operation in closed or partly closed rooms, or ensure adequate ventilation when working in trenches.

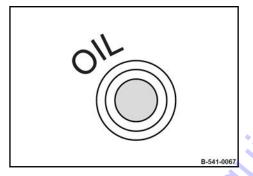


WARNING!

Loss of hearing caused by too high noise bur-

Wear your personal protective equipment (ear protection).

- Protective equipment: Hearing protection
 - Safety shoes

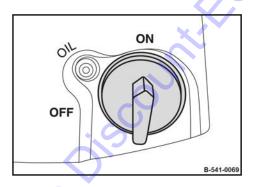




The engine does not start if the oil level is too low.

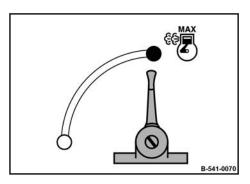
The engine oil level warning lamp flashes when operating the recoil starter.

Fig. 22



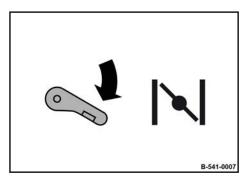
Set the engine stop switch to position "ON".

Operation - Starting the engine



2. Set the throttle lever to position "MAX".

Fig. 24



3. Close the choke.



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

Fig. 25

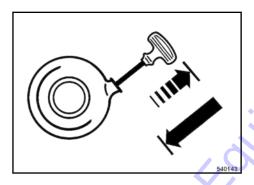


Fig. 26

- **4.** Pull the rope by the starter handle, until resistance can be felt.
- **5.** Guide the starter handle back to initial position.

Operation – Starting the engine

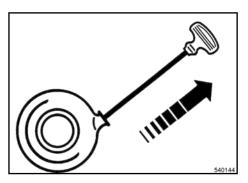


Fig. 27

6.



CAUTION!

Danger of injury caused by uncontrolled machine movement!

- Keep your feet clear of the tamper foot plate.
- Always hold on to a running machine.
- Always keep an eye on a running machine.



NOTICE!

The starter rope may tear off!

 Do not pull the starter rope all the way against the end stop.

Pull the starter handle quickly and with power.

- 7. Manually guide the starter handle back to initial position.
- **8.** If the engine does not start during the first attempt, repeat the starting process.
- **9.** Open the choke 3 to 6 seconds after the engine has started running.

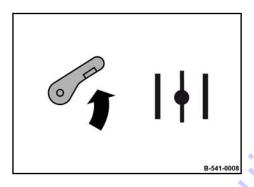


Fig. 28

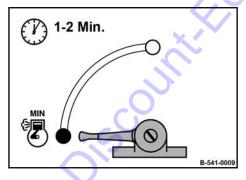


Fig. 29

10. Set the throttle lever to position "MIN" and let the engine run at idle speed to warm up for 1 to 2 minutes.



NOTICE!

Danger of engine damage!

- Warm up engine for a short while before starting work. Do not operate the engine immediately under full load.
- **11.** Should the engine stop again after approx. 3 to 5 seconds:
 - Close the choke again.
 - Repeat the starting procedure.

Operation - Starting the engine



with the someth field 13 What to 50 method 163. If the recoil starter is frequently operated with the

6.3 Operation

Guide the machine only by the guide handle.

Guide the machine so that your hands do not hit against solid objects.

For longer work breaks you should always park the machine in secured condition $\mbox{\ensuremath{$\,\circ$}}$ Chapter 6.4 "Parking the machine in secured condition" on page 55.



CAUTION!

Danger of injury caused by uncontrolled machine movement!

- Keep your feet clear of the tamper foot plate.
- Always hold on to a running machine.
- Always keep an eye on a running machine.



WARNING!

Loss of hearing caused by too high noise burdens!

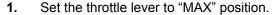
Wear your personal protective equipment (ear protection).



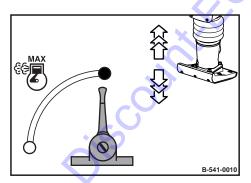
The layer thickness of the material to be compacted should not be higher than is possible for the machine to cope with.

Protective equipment: Working clothes

- Working Clothe
- Safety shoes
- Protective gloves
- Hearing protection



⇒ The machine works with highest frequency.



Fia. 30

Operation – Operation

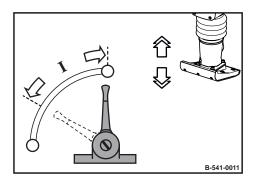


Fig. 31

- 2. To achieve uniform running you should actuate the throttle lever within the working range (I), depending on condition and density of the soil.
 - ⇒ Working range (I) = 3600 to 4200 min⁻¹
- 3. If the machine jumps out of rhythm on heavily compacted soil, you may need to slightly change the engine speed and/or inclination of the machine.

NOTICE!

The centrifugal clutch may be damaged!

Do not work with engine speeds which are below the working range.

If the display [LOW] appears, increase the engine speed.

4.



Fig. 32

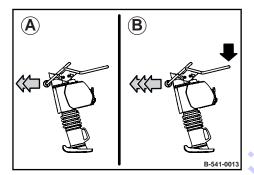


Fig. 33

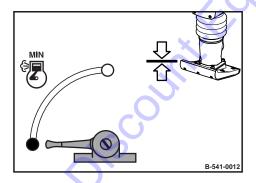


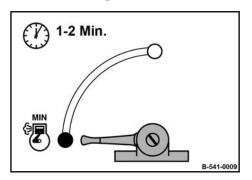
Fig. 34

- Adapt the marching speed by applying load to the guide 5. handle:
 - slowly forward (A) No load
 - (B) Heavy load fast forward

6. Always shift the throttle lever to position "MIN" for short work breaks.

Operation - Parking the machine in secured condition

6.4 Parking the machine in secured condition



1. Set the throttle lever to position "MIN" (idle speed).

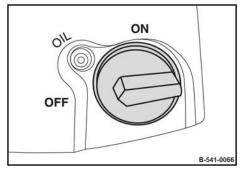


NOTICE!

Danger of engine damage!

 Do not shut down the engine all of a sudden from full load speed, but let it idle for about two minutes.

Fig. 35



- 2. Set the engine stop switch to position "OFF".
 - ⇒ The engine is shut down.
- 3. Park the machine so that it cannot turn over.

Fig. 36

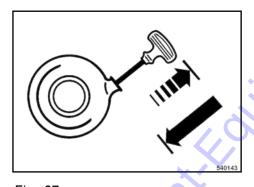
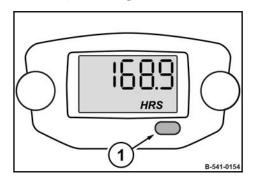


Fig. 37

- **4.** Pull the rope by the starter handle, until resistance can be felt. Guide the starter handle back to initial position.
 - ⇒ This procedure protects against moisture deposits inside the engine.

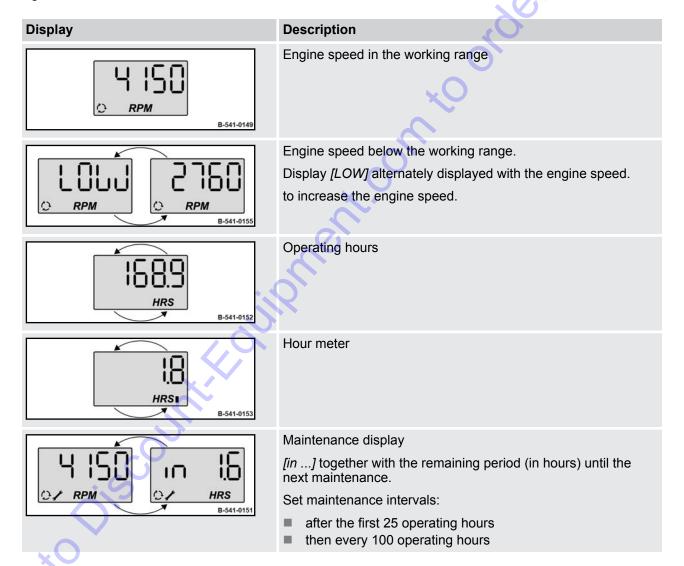
Operation – Operating hour meter/engine rpm-meter

6.5 Operating hour meter/engine rpm-meter



Operating the function key (1) switches between operating hours, hour counter and service indicator
Engine speed If the remaining period until the next maintenance is under two hours, the maintenance indicator appears for approx. 30 seconds after starting the engine.

Fig. 38



Operation - Operating hour meter/engine rpm-meter

Resetting the maintenance indicator / hour meter



- 1. Shut down the engine.
- Keep pressing the function key (1), until the maintenance indicator or the hour meter is displayed. 2.
- 3. Press the function key for three seconds.
 - ⇒ The maintenance indicator is reset to 100 hours.

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Loading/transporting the machine - Loading the machine

7.1 Loading the machine

Loads may only be attached and hoisted by an expert/qualified person.

Do not use lifting points that are damaged or impaired in any other way.

Only use lifting and lashing tackle with sufficient load bearing capacity for the weight to be loaded. Minimum load bearing capacity of lifting tackle: see operating weight & Chapter 2 "Technical data" on page 11.

Always use appropriate lifting and lashing tackle at the lifting and lifting points.

Use lifting tackle only in the specified loading direction.

Lifting tackle must not be damaged by machine parts.

When lifting the machine, make sure the load does not move in an uncontrolled way. If necessary, hold the load steady with guide ropes.

Protective equipment: Protective gloves

Safety shoes

- 1. Park the machine safely Chapter 6.4 "Parking the machine in secured condition" on page 55.
- 2. Make sure that no fuel will be spilled from the tank during transport:
 - Close the fuel tank tightly.
 - Consider the filling quantity in the tank in case of temperature fluctuations (pressure relief valve in tank lid); drain off fuel if necessary.
- 3. Attach the lifting tackle to the dedicated lifting eye.

4.



DANGER!

Danger to life caused by suspended loads!

 Do not step or stand under suspended loads.

Lift the machine carefully and set down again at the intended location.

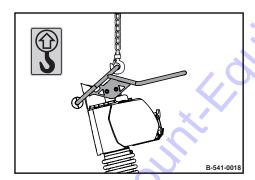


Fig. 40

Loading/transporting the machine - Loading the machine



5.

WARNING!

Danger of burning on hot components!

- Wear your personal protective equipment (protective gloves, protective clothing).

Loading/transporting the machine - Lashing the machine to the transport vehicle

7.2 Lashing the machine to the transport vehicle

Do not use lashing points that are damaged or impaired in any way.

Always use appropriate lashing tackle at the lashing points.

Use lashing tackle only in the specified loading direction.

Lashing tackle must not be damaged by machine parts.

Protective equipment: Working clothes

Protective gloves

Safety shoes



WARNING!

Danger of burning on hot components!

- Wear your personal protective equipment (protective gloves, protective clothing).
- Avoid touching hot components.

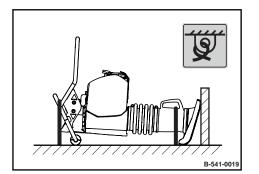


Fig. 42

- Lean the tamper foot against the side wall of the transport vehicle.
- **2.** Fasten the machine on the transport vehicle with at least two suitable lashing belts.

Go to Discount Edition Rent Control order voir October 1901 (Control order voir October 1901)

Maintenance - Preliminary remarks and safety notes

8.1 Preliminary remarks and safety notes



DANGER!

Danger to life caused by an operationally unsafe machine!

- The machine must only be serviced by qualified and authorized personnel.
- Follow the safety regulations for maintenance work ♥ Chapter 3.9 "Maintenance work" on page 32.



WARNING!

Health hazard caused by fuels and lubricants!

Wear your personal protective equipment.

Do not touch hot components.

Park the machine on horizontal, level, firm ground.

Secure the machine against accidental tipping over.

Perform maintenance work only with the engine shut down and the spark plug connector disconnected.

Make sure that the engine cannot be accidentally started during maintenance work.

Thoroughly clean machine and engine before starting maintenance work.

Do not leave any tools or other objects, that could cause damage, in or on the machine.

After maintenance work has been completed, dispose of fuels and lubricants, filters, sealing elements and cleaning cloths in an environmentally friendly way.

After all maintenance work is completed reinstall all guards and safety installations.

8.2 Fuels and lubricants

8.2.1 Engine oil

8.2.1.1 Oil quality

The following engine oil specifications are permitted:

Engine oils for four-stroke engines acc. to API-classification SJ or higher

Avoid mixing of engine oils.

8.2.1.2 Oil viscosity

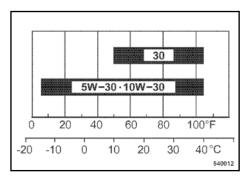


Fig. 43

Since engine oil changes its viscosity with the temperature, the ambient temperature at the operating location of the engine is of utmost importance when choosing the viscosity class (SAE-class).

The temperature data of the SAE-class always refers to fresh oils. In travel operation engine oil ages because of soot and fuel residues. This adversely affects the properties of the engine oil, especially under low ambient temperatures.

SAE 10W-30 is recommended for general use.

You may alternatively use 15W-40 (except under low temperatures).

8.2.1.3 Oil change intervals

Oil change interval: semi-annually or every 100 operating hours.

8.2.2 Fuel

8.2.2.1 Fuel quality

Use unleaded gasoline with a research octane number of 91 or higher (or octane number 86 or higher).

Use unleaded standard grade gasoline with maximum 10 percent by volume of ethanol (E10) or maximum 5 percent by volume of methanol.

Methanol must also contain co-solvents and corrosion inhibitors.

Do not use any fuel with a higher ethanol or methanol content.

The use of fuels with a higher ethanol or methanol content will cause starting and/or power problems or even cause damage in the fuel system.

Maintenance - Fuels and lubricants

8.2.2.2 Fuel stabilizer

If the machine is only occasionally used (if it is out of use for longer than four weeks), mix in the correct amount of fuel stabilizer directly after you have purchased fresh fuel.

The fuel stabilizer has a limited shelf life.

Please follow the instructions of the manufacturer concerning the correct mixing ratio and shelf life.

Mixing in fuel stabilizer does not regenerate old fuel.

8.2.3 Gear oil SAE 75W-90

Use a fully synthetic gear oil in accordance with SAE 75W-90, API GL5 with a kinematic viscosity of at least 16 mm²/s at 100 °C (212 °F).

Maintenance - List of fuels and lubricants

8.3 List of fuels and lubricants

	1 201 01 1	ubricant	Spare parts	Filling quantity
	Summer	Winter	number	Observe the level mark!
Engine oil	SAE 1	0W-30		0.31
	Specification: Specification: Action Property Specification: Chapter 8.2.1 "Engine oil" on page 65			(0.08 gal us)
	SAE 30			
Fuel	Gasoline ((31
	Specification: ♥ Chapter 8.2.2 "Fuel" on page 65		(0)	(0.8 gal us)
	Fuel sta		009 940 20	as required
	Specification: Specification: Specification:	ter 8.2.2.2 "Fuel stabil- page 66		
Tamper foot	SAE 75W-9	0, API GL-5	,	11
	Specification: ♥ Chapte 75W-90" o			(0.26 gal us)

Maintenance - Running-in instructions

8.4 Running-in instructions

8.4.1 General

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



NOTICE!

Danger of engine damage!

 Up to approx. 250 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 250 operating hours.

8.4.2 After 25 operating hours

- 1. Change the engine oil & Chapter 8.8.1 "Changing the engine oil" on page 75.
- 2. Check the idle speed and the max. speed of the engine, adjust if necessary & Chapter 8.9.6 "Checking, adjusting the engine speed" on page 89.
- 3. Check engine and machine for leaks.
- Retighten the fastening screws on air filter, exhaust and other attachments.
- **5.** Retighten the bolted connections on the machine.

Maintenance – Maintenance Table

8.5 Maintenance Table

No.	Maintenance works	Page >		
Weekly				
8.6.1	Checking, cleaning the air filter	70		
Monthly				
8.7.1	Checking the tamper foot	73		
Semi-annually Semi-annually				
8.8.1	Changing the engine oil	75		
Annually				
8.9.1	Checking, adjusting the valve clearance	76		
8.9.2	Replacing the spark plug	81		
8.9.3	Replacing the fuel filter	82		
8.9.4	Cleaning the fuel screen	85		
8.9.5	Replacing the air filter	87		
8.9.6	Checking, adjusting the engine speed	89		
8.9.7	Replacing the starter rope	92		
8.9.8	Changing the oil in the tamper foot	94		
As required				
8.10.1	Cleaning the machine	96		
8.10.2	Checking, cleaning the spark plug	96		

8.6 Weekly

8.6.1 Checking, cleaning the air filter

NOTICE!

Danger of engine damage!

- Never start the engine after removing the air filter.
- Do not let dirt drop into the air duct.
- Do not continue using a damaged or soiled air filter. If in doubt use a new air filter.

Protective equipment: Working clothes

Safety shoes

Protective gloves

Safety goggles

- 1. Park the machine safely & Chapter 6.4 "Parking the machine in secured condition" on page 55.
- 2. Allow the engine to cool down.

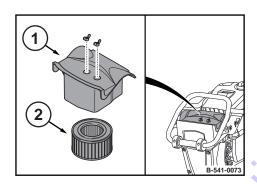


Fig. 44

Fig. 45

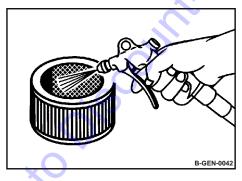


Fig. 46

- 3. Disassemble the cover (1) and air filter (2).
- 4. Clean the cover.

5.



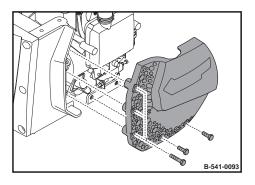
CAUTION!

Danger of eye injuries caused by particles flying around!

 Wear your personal protective equipment (safety gloves, protective working clothes, goggles).

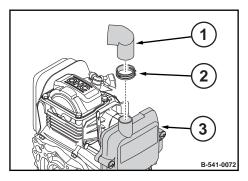
Blow the air filter out with dry compressed air (max. 6 bar (87 psi)) from inside to outside by moving the gun up and down inside the element, until it is free of dust.

- **6.** Check seals and air filter for damage.
- 7. Replace the air filter if it is damaged.
- 8. Insert the air filter and reassemble the cover.



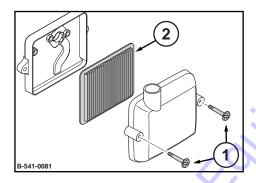
9. Disassemble the left engine guard.

Fig. 47



10. Pull the air feed hose (1) and the hose clamp (2) off the cover (3).

Fig. 48



- 11. Unscrew the fastening screws (1).
- 12. Disassemble the cover and air filter (2).
- **13.** Wipe the inside of the air filter housing with a clean cloth.

Fig. 49

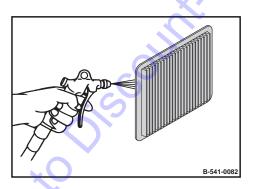


Fig. 50

14.



CAUTION!

Danger of eye injuries caused by particles flying around!

 Wear your personal protective equipment (safety gloves, protective working clothes, goggles).

Blow the air filter out from inside to outside with dry compressed air (max. 2 bar (29 psi)), until all dust has been removed.

- 15. Check seals and air filter for damage.
- **16.** Replace the air filter if it is damaged.

Maintenance - Weekly

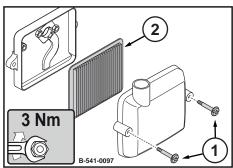
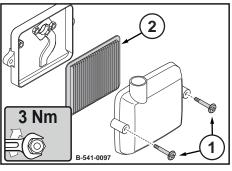


Fig. 51



17.

Connect the air hose (1) with the hose clamp (2) to the cover 19.

Slide the air filter (2) carefully into the housing.

Assemble the cover (3) with fastening screws (1), tightening torque: 3 Nm (2 ${\rm ft}$ -lbf).

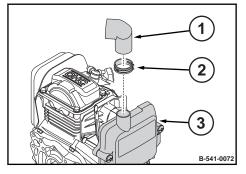


Fig. 52

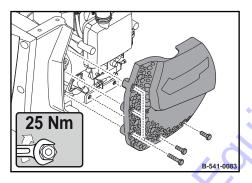


Fig. 53

Assemble the left hand engine guard, tightening torque: 20. 25 Nm (18 ft·lbf).

8.7 Monthly

8.7.1 Checking the tamper foot



NOTICE!

Components may get damaged!

Use only oil of the permitted specification
 Chapter 8.3 "List of fuels and lubricants" on page 67.

Protective equipment: Working clothes

Protective gloves

- 1. Park the machine in secured condition & Chapter 6.4 "Parking the machine in secured condition" on page 55.
- **2.** Park the machine so that the tamper foot is in horizontal position
- 3. Allow the machine to cool down.
- 4. Clean the sight glass.
- 5. Check the oil level.
- 6. The oil must be visible between the middle and the upper edge of the oil level inspection glass, if necessary top up oil up to the bottom edge of the filling opening.



The upper edge of the inspection glass equals the bottom edge of the oil filling bore.

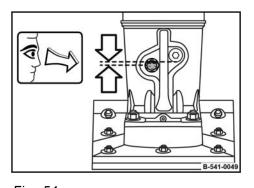


Fig. 54

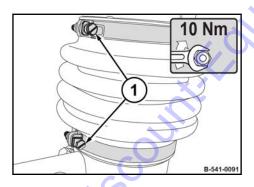
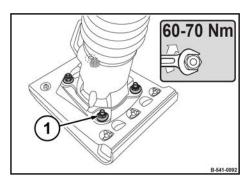


Fig. 55

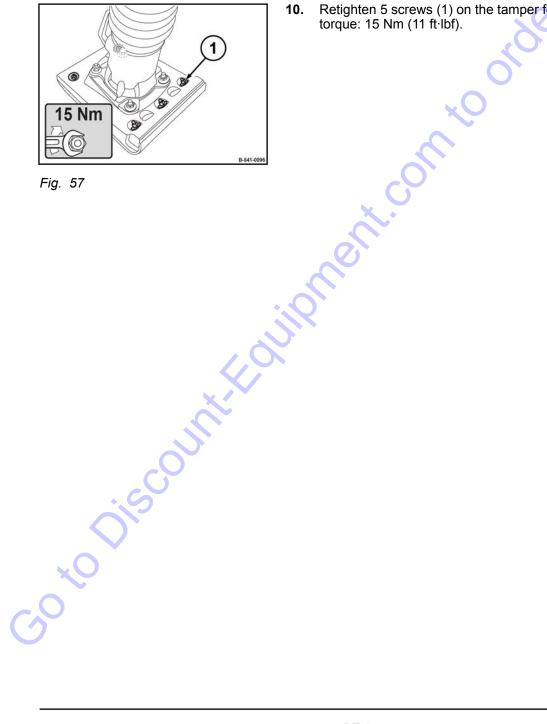
- 7. Check concertina wall for condition, damage and tight fit.
- 8. Check the hose clamps for tight fit, tightening torque for screws (1): 10 Nm (7.4 ft·lbf).

Maintenance - Monthly



9. Retighten 4 screws (1) on the tamper foot plate, tightening torque: 60 - 70 Nm (44 - 52 ft·lbf).

Fig. 56



Retighten 5 screws (1) on the tamper foot plate, tightening 10. torque: 15 Nm (11 ft·lbf).

8.8 Semi-annually

8.8.1 Changing the engine oil



NOTICE!

Danger of engine damage!

- Change the oil only with the engine at operating temperature.
- Use only oil of the permitted specification
 Chapter 8.2.1 "Engine oil" on page 65.

Protective equipment: ■

- Working clothes
- Protective gloves
- 1. Park the machine in secured condition 5 Chapter 6.4 "Parking the machine in secured condition" on page 55.
- 2. Park the machine so that the tamper foot is in horizontal position.

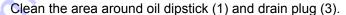




WARNING!

Danger of burning on hot components!

- Wear your personal protective equipment (protective gloves, protective clothing).
- Avoid touching hot components.



- 4. Unscrew the oil dipstick.
- 5. Unscrew the drain plug and collect any oil running out.
- **6.** Clean the oil drain plug and screw it back in with a new seal ring (2).
- 7. Fill in fresh oil up to the bottom edge of the filler bore.
- 8. Push the oil dipstick (1) back in.
- 9. Check for leaks after a short test run.
- **10.** Check the oil level on the dipstick, correct if necessary.
- **11.** Dispose of oil in an environmentally friendly way.

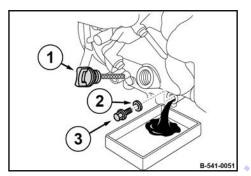


Fig. 58

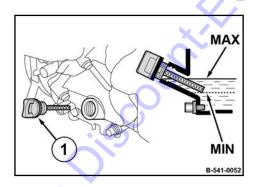


Fig. 59

8.9 Annually

8.9.1 Checking, adjusting the valve clearance

NOTICE!

Danger of engine damage!

We recommend to have this work carried out by trained personnel or our after sales service.

Before checking the valve clearance let the engine cool down.

Preparations

Protective equipment: ■ Working clothes

Safety shoes

Protective gloves

- **1.** Park the machine safely $\mbox{\ensuremath{\ensur$
- 2. Let the engine cool down to ambient temperature.
- **3.** Pull the air feed hose (1) and the hose clamp (2) off the cover (3).

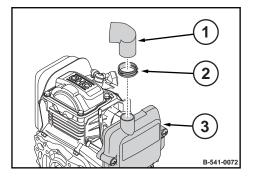


Fig. 60

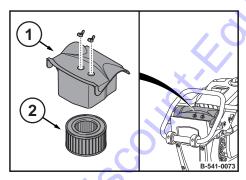
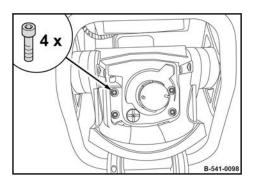


Fig. 61

4. Disassemble the cover (1) and air filter (2).



5. Disassemble the guide handle fastening screws.

Fig. 62

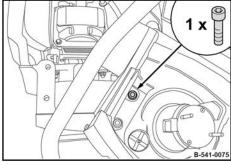
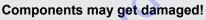


Fig. 63

■ NOTICE!

6.



Do not tear off any hoses or cables.

Remove the guide handle and secure it to the housing with a fastening screw.

Tighten the fastening screw hand-tight.

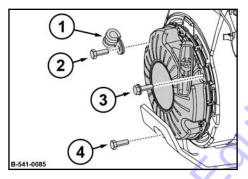
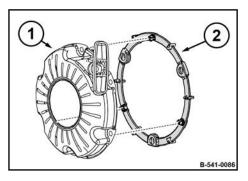


Fig. 64

- 1 Pipe clamp
- 2 Screw M6x18
- 3 Screw M6x14
- 4 Screw M6x18

7. Disassemble the recoil starter.



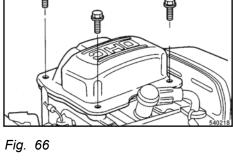
8. If necessary, remove the spacer ring (2) from the engine.

Fig. 65

Checking, adjusting the valve clearance

Valve clearance:	
Intake valve (IN)	0.15 mm (0.006 in)
Exhaust valve (EX)	0.20 mm (0.008 in)

Unscrew the fastening screws for the cylinder head cover.



1.

NOTICE!

Components may get damaged!

Do not apply force to remove the cylinder head cover.

Insert a screwdriver into the recess and lever the cylinder head cover carefully off.

- Check the cylinder head cover for damage. 3.
- 4. Replace a damaged or bent cylinder head cover.

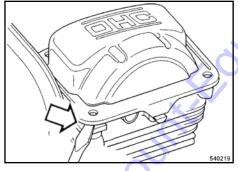
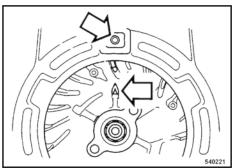


Fig. 67



5.

6.

11.

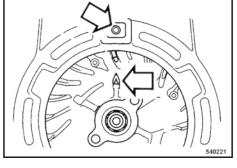
12.

head cover.

of the fan cover.

sion stroke.

Fig. 68



- 7. Check the valve clearance with a feeler gauge (2).
- To adjust the valve, hold the valve adjustment screw (1) and 8. loosen the locking nut (3).

Align the alignment mark on the flywheel rib with the top bore

The piston is in top dead centre position of the compres-

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

- 9. Turn the valve adjustment screw in or out, as required.
- Retighten the locking nut, tightening torque: 8 Nm (6 ft·lbf). 10.

Clean the sealing faces on cylinder head cover and cylinder

(0.06 to 0.08 in) in diameter, to the inner side of the cylinder

Liquid sealant: Three Bond 1207B or similar.

Apply a bead of liquid sealant, approx. 1.5 to 2.0 mm

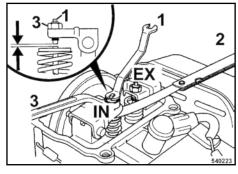


Fig. 69

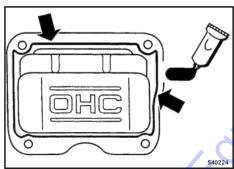
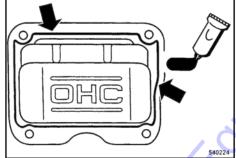
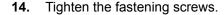


Fig. 70



Attach the cylinder head cover to the cylinder block within the 13. next 10 minutes.



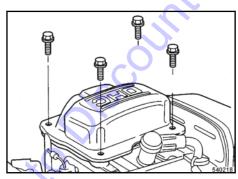
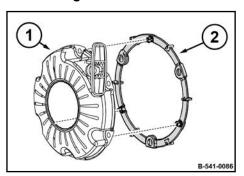


Fig. 71

Concluding work



Clip in the spacer ring (2) on the recoil starter (1). 1.

Fig. 72

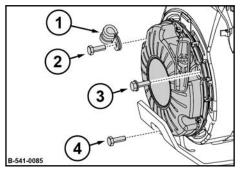


Fig. 73

- Pipe clamp
- Fastening screw M6x18 Fastening screw M6x14
- Fastening screw M6x18

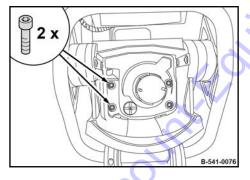


Fig. 74

2.

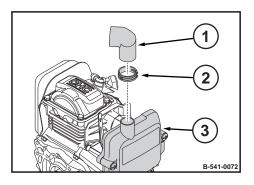
NOTICE!

The recoil starter may get damaged!

Do not mix up the fastening screws for the recoil starter by mistake.

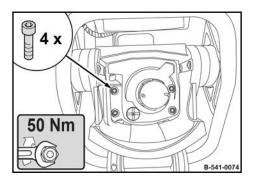
Assemble the recoil starter.

Attach the guide handle and tighten the right hand fastening 3. screws hand-tight.



4. Connect the air hose (1) with the hose clamp (2) to the cover (3).

Fig. 75



5. Assemble the fastening screws, tightening torque: 50 Nm (37 ft·lbf).

Fig. 76

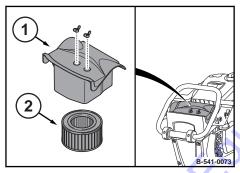


Fig. 77

- **6.** Assemble air filter (2) and cover (1).
- 7. Wait another 20 minutes before starting the engine.
- 8. After a short test run, check the engine for leaks.

8.9.2 Replacing the spark plug



NOTICE!

Danger of engine damage!

Do not use spark plugs with incorrect heat value.

Recommended spark plugs:		
NGK	CR5HSB	
DENSO	U16FSR-UB	

Protective equipment: ■ Working clothes

Protective gloves

Special tool: 16 mm spark plug spanner

1. Park the machine in secured condition § Chapter 6.4 "Parking the machine in secured condition" on page 55.

2. Allow the engine to cool down for at least 15 minutes.

3. Pull off the spark plug connector (1).

4. Clean the area around the spark plug.

5. Unscrew the spark plug with a 16 mm spark plug spanner (2)

6. Check the electrode gap of the new spark plug with a feeler gauge, if necessary, adjust the gap.

⇒ **Nominal value:** 0.6 - 0.7 mm (0.024 - 0.028 in)

7. Carefully screw in the spark plug by hand.

8. Once the sealing surface of the new spark plug is in contact, tighten for another 1/2 turn with the spark plug spanner.

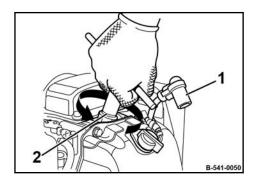


Fig. 78

8.9.3 Replacing the fuel filter



DANGER!

Danger to life caused by explosive gas-air mixes!

 Do not allow gasoline to come into contact with hot components.

Smoking and open fire is prohibited.

 Keep away from heat sources, sparks and other sources of ignition.

Do not spill any gasoline.

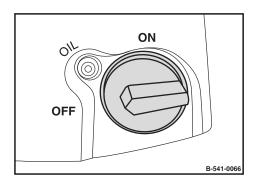
Protective equipment: Working clothes

Safety shoes

Protective gloves

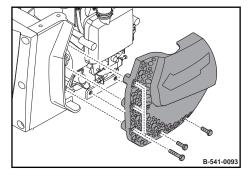
1. Park the machine safely \mathsepsilon Chapter 6.4 "Parking the machine in secured condition" on page 55.

Preparations



- **3.** Set the engine stop switch to position "OFF".
 - ⇒ The fuel valve is closed.

Fig. 79



4. Disassemble the left engine guard.

Fig. 80

Disassembling the fuel filter

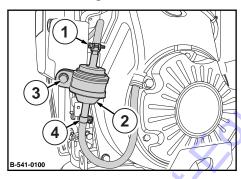
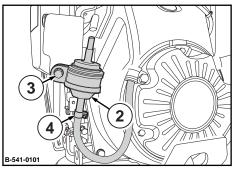
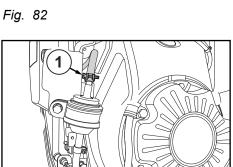


Fig. 81

- 5. Loosen the hose clamps (1) and (4) and pull the fuel hoses off the fuel filter (2).
- **6.** Loosen fastening screw (3).
- 7. Take off the old fuel filter.

Assembling the fuel filter and filling it with fuel





E-541-0102 Fig. 83

- **8.** Install the new fuel filter (2) by observing the flow direction.
- **9.** Tighten the fastening screw (3), tightening torque: 10 Nm (7.4 ft·lbf).
- **10.** Connect the lower fuel hoses to the fuel filter with hose clamp (4).
- **11.** Open the fuel valve (engine stop switch in position "ON"), until the fuel filter is filled with fuel.
- **12.** Close the fuel valve (engine stop switch in position "OFF").

13. Connect the upper fuel hose to the fuel filter with the hose clamp (1).

Concluding work

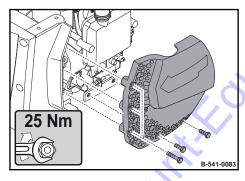


Fig. 84

- **14.** Assemble the left hand engine guard, tightening torque: 25 Nm (18 ft·lbf).
- **15.** Dispose of fuel and fuel filters in line with environmental regulations.

8.9.4 Cleaning the fuel screen



DANGER!

Danger to life caused by explosive gas-air mixes!

- Do not allow gasoline to come into contact with hot components.
- Smoking and open fire is prohibited.
- Keep away from heat sources, sparks and other sources of ignition.
- Do not spill any gasoline.

Protective equipment: Working clothes

- Protective gloves
- 1. Park the machine in secured condition ♥ Chapter 6.4 "Parking the machine in secured condition" on page 55.
- 2. Loosen hose clamp (1) and pull the fuel hoses off the fuel valve (2).

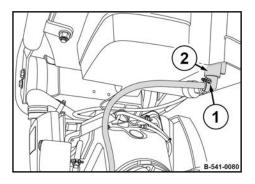


Fig. 85

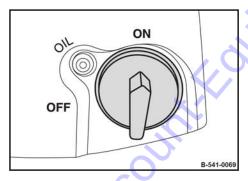
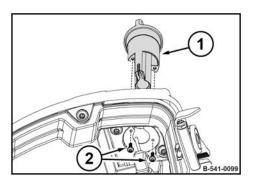


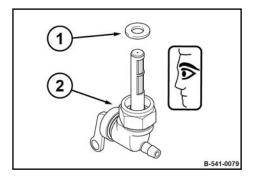
Fig. 86

3. Open the fuel valve (engine stop switch in position "ON") and catch runni9ng out fuel.



4. Unscrew the screws (2) and remove the engine stop switch (1).

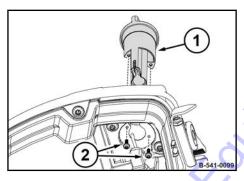
Fig. 87



5. Unscrew the fuel valve (2) and remove the seal (1).

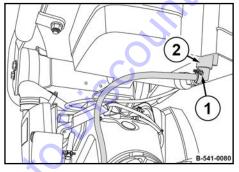
- 6. Clean the screen and check for damage.
- 7. Replace the fuel valve if damaged.
- 8. Assemble the fuel valve with a new seal

Fig. 88



9. Assemble the engine stop switch (1) with screws (2).

Fig. 89



10. Connect the fuel hose with the hose clamp (1) to the fuel valve (2).

Fig. 90

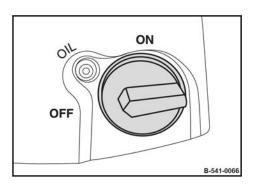


Fig. 91

- 11. Close the fuel valve (engine stop switch in position "OFF").
- 12. Dispose of fuel environmentally.

8.9.5 Replacing the air filter



NOTICE!

Danger of engine damage!

Do not start the engine after having removed the air filter.

Protective equipment: Working clothes

- Safety shoes
- Protective gloves
- 1. Park the machine safely \$\infty\$ Chapter 6.4 "Parking the machine" in secured condition" on page 55.
- 2. Allow the engine to cool down.
- 3. Disassemble the cover (1) and air filter (2).
- 4. Clean the cover.
- 5. Replace the air filter.
- Insert the air filter and reassemble the cover. 6.

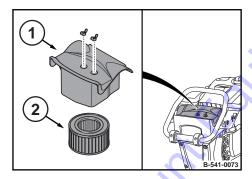
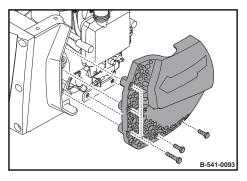
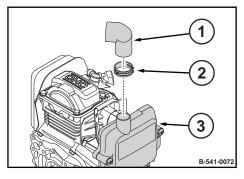


Fig. 92



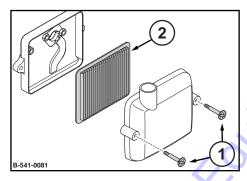
7. Disassemble the left engine guard.

Fig. 93



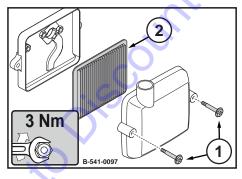
8. Pull the air feed hose (1) and the hose clamp (2) off the cover (3).

Fig. 94



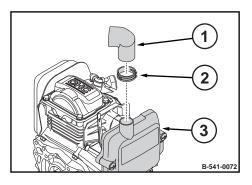
- **9.** Unscrew the fastening screws (1).
- 10. Disassemble the cover and air filter (2).
- **11.** Wipe the inside of the air filter housing with a clean cloth.
- 12. Replace the air filter.

Fig. 95



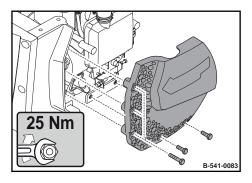
- **13.** Slide the air filter (2) carefully into the housing.
- **14.** Assemble the cover with fastening screws (1), tightening torque: 3 Nm (2 ft·lbf).

Fig. 96



15. Connect the air hose (1) with the hose clamp (2) to the cover (3).

Fig. 97



16. Assemble the left hand engine guard, tightening torque: 25 Nm (18 ft·lbf).

Fig. 98

8.9.6 Checking, adjusting the engine speed

8.9.6.1 Checking the engine speed

Preparations

- 1. Replace the air filter & Chapter 8.9.5 "Replacing the air filter" on page 87.
- 2. Check the engine oil level & Chapter 5.3 "Checking the engine oil level" on page 44.

Checking the engine speed

Protective equipment:

Hearing protection

Safety shoes



CAUTION!

Danger of injury caused by uncontrolled machine movement!

- Keep your feet clear of the tamper foot plate.
- Always hold on to a running machine.
- Always keep an eye on a running machine.



WARNING!

Loss of hearing caused by too high noise burdens!

Wear your personal protective equipment (ear protection).

Nominal values:	
Idle speed	1850 to 2000 min ⁻¹
Maximum engine speed	3850 to 4200 min ⁻¹

- 1. Start the engine and run it warm for approx. 15 minutes.
- 2. Run the machine on ground that can be compacted.
- 3. Set the throttle lever to position "MIN".

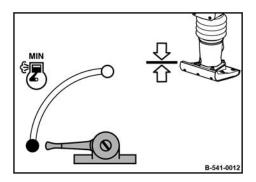
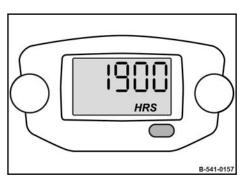


Fig. 99



4. After approx. 30 to 40 seconds read the idle speed from the engine rpm-meter.



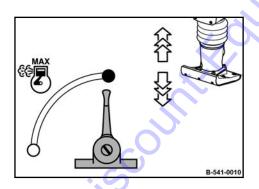


Fig. 101

- 5. Set the throttle lever to "MAX" position.
- **6.** After approx. 30 to 40 seconds read the max. speed from the engine rpm-meter.
- **7.** If necessary, adjust the idle speed or maximum speed as required.

8.9.6.2 Adjusting the engine speed

Protective equipment: Working clothes

Safety shoes

Protective gloves

- 1. Park the machine safely \mathsepsilon Chapter 6.4 "Parking the machine in secured condition" on page 55.
- 2. Disassemble the left engine guard.

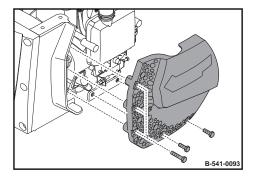


Fig. 102

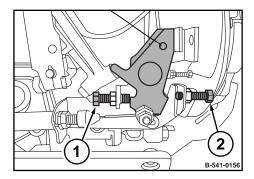


Fig. 103



WARNING!

Danger of burning on hot components!

- Wear your personal protective equipment (protective gloves, protective clothing).
- Avoid touching hot components.

Adjust the idle speed using the stop screw (2) on the throttle lever.

- Adjust the maximum speed via the stop screw (1).
- 5. Secure the stop screws with counter nuts.



Adjust the throttle cable, if this should be necessary.

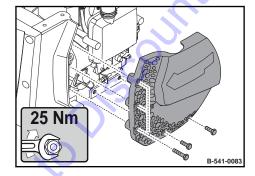


Fig. 104

6. Assemble the left hand engine guard, tightening torque: 25 Nm (18 ft·lbf).

8.9.7 Replacing the starter rope

Protective equipment: Working clothes

Protective gloves

- 1. Park the machine in secured condition 5 Chapter 6.4 "Parking the machine in secured condition" on page 55.
- 2. Allow the engine to cool down.
- 3. Disassembling the recoil starter.

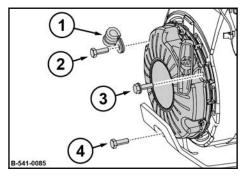


Fig. 105

- Pipe clamp Screw M6x18 1
- 2
- Screw M6x14
- Screw M6x18



Fig. 106

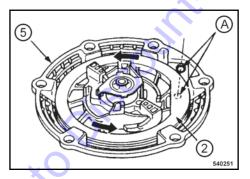


Fig. 107

Pull the starter rope with the starter handle out completely.

- If the starter rope has been torn or the coil has recoiled com-5.
 - Before assembling the rope, turn the coil (2) 5 revolutions in anti-clockwise direction and align the rope openings in coil and housing (5) to one another (A).

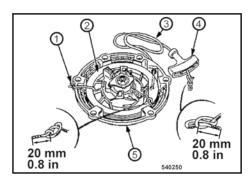


Fig. 108

- **6.** Secure the coil against winding up. For this purpose tie the coil (2) to the housing (5) with a cable strap (1).
- 7. Untile the knots of the starter rope at both ends and remove the old starter rope.
- **8.** Thread in the new starter rope (3) and fix it with knots on both ends.

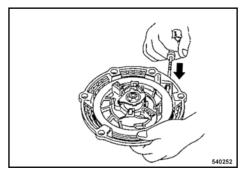


Fig. 109

9.

CAUTION!

Danger of injury caused by the starter handle hitting against your body!

Do not let the starter handle hit back.

Remove the fixing of the coil and run the starter handle slowly back to initial position.

- **10.** Pull the starter handle to check the function and light movement of the recoil starter.
- 1 2 B-541-0085

Fig. 110

11. Clip in the spacer ring (2) on the recoil starter (1).

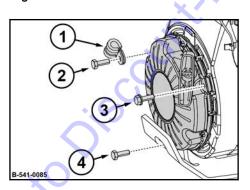


Fig. 111

- 1 Pipe clamp
- Screw M6x18
- 3 Screw M6x14

12.

NOTICE!

The recoil starter may get damaged!

 Do not mix up the fastening screws for the recoil starter by mistake.

Assemble the recoil starter.

4 Screw M6x18

8.9.8 Changing the oil in the tamper foot



NOTICE!

Components may get damaged!

- Drain tamper foot oil only at operating temperature.
- Ensure strict cleanliness.
- Use only tamper oil of the permitted specification.

Protective equipment:

- Working clothes
- Safety shoes
- Protective gloves



WARNING!

Danger of burning on hot components!

- Wear your personal protective equipment (protective gloves, protective clothing).
- Avoid touching hot components.
- **1.** Park the machine safely ♥ Chapter 6.4 "Parking the machine in secured condition" on page 55.
- 2. Clean the area around filler and drain plug.
- 3. Unscrew the drain plug, tilt the machine backward and collect running out oil.
- **4.** Stand the tamper on its foot again and secure it against tipping over.
- **5.** Clean the drain plug and screw it in with sealing agent (low-strength, e.g. spare parts number 009 700 16).

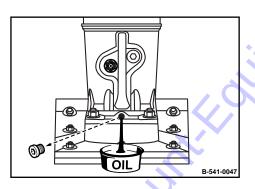


Fig. 112

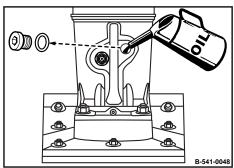
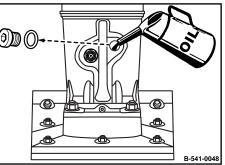


Fig. 113



Check the oil level in the inspection glass, correct if neces-10.

Fill in fresh oil up to the bottom edge of the filler bore.

Clean the filling plug and screw it back in with a new seal

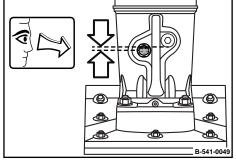


7.

8.

The upper edge of the inspection glass equals the bottom edge of the oil filling bore.





8.10 As required

8.10.1 Cleaning the machine

NOTICE!

Danger of engine damage caused by reduced cooling!

 Immediately remove any oil or fuel leaks near fuel tank, cylinders or cooling air intake.

Protective equipment:

- Working clothes
- Safety shoes
- Protective gloves
- **1.** Park the machine safely $\mbox{\ensuremath{,}}\mbox{\ensuremath{}}\mbox{\ensurema$
- 2. Allow the engine to cool down.



NOTICE!

Components can be damaged by water entering into the system!

Do not guide the water jet directly into the air intake and the recoil starter.



- 3. Clean the machine with a water jet.
- **4.** Warm up the engine for a while to avoid corrosion.

Fig. 115

8.10.2 Checking, cleaning the spark plug



NOTICE!

Danger of engine damage!

Do not use spark plugs with incorrect heat value.

Maintenance - As required

Protective equipment: Working clothes

Protective gloves

Special tool: 16 mm spark plug spanner

- 1. Park the machine in secured condition \$\&\triangle\$ Chapter 6.4 "Parking the machine in secured condition" on page 55.
- 2. Allow the engine to cool down for at least 15 minutes.
- **3.** Pull off the spark plug connector (1).
- 4. Clean the area around the spark plug.
- **5.** Unscrew the spark plug with a 16 mm spark plug spanner (2).

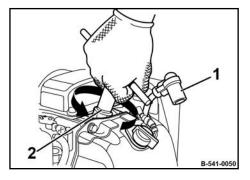


Fig. 116

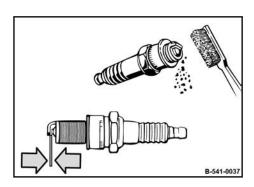


Fig. 117

- **6.** Check the condition of the spark plug, clean if necessary.
- 7. In case of excessive combustion residues or burned off electrodes, replace the spark plug & Chapter 8.9.2 "Replacing the spark plug" on page 81.
- **8.** Check the electrode gap of the spark plug with a feeler gauge, if necessary, adjust the gap.
 - ⇒ **Nominal value:** 0.6 0.7 mm (0.024 0.028 in)
- 9. Carefully screw in the spark plug by hand.
- **10.** Once the sealing surface of the used spark plug is in contact, tighten for another 1/8 to 1/4 turn with the spark plug spanner.

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Setting up / refitting - Changing the tamper foot plate

9.1 Changing the tamper foot plate

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Only use genuine spare parts when changing the tamper foot plate to a different width.

Protective equipment:

Protective gloves

Working clothes

- 1. Park the machine in secured condition 5 Chapter 6.4 "Parking the machine in secured condition" on page 55.
- 2. Allow the machine to cool down.
- 3. Lay the machine carefully on the rollers.

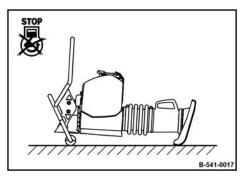


Fig. 118

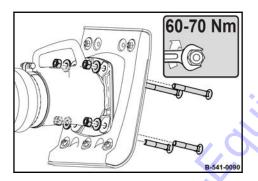


Fig. 119

- 4. Unscrew the fastening screws.
- **5.** Take off the tamper foot plate and lay the tamper foot on the floor.
- **6.** Fasten the new tamper foot plate with the fastening screws, tightening torque: 60 bis 70 Nm (44 bis 52 ft·lbf).
- 7. Check the engine speed, readjust if necessary & Chapter 8.9.6 "Checking, adjusting the engine speed" on page 89.

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Troubleshooting - Preliminary remarks

10.1 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 instructions on correct operation and maintenance.

actify, ald contain the distribution of the second of the If you cannot locate the cause of a fault or rectify it yourself by following the trouble shooting chart, you should contact our customer

10.2 Engine faults

Fault	Possible cause	Remedy
Engine does not	Fuel tank empty	Check, fill up if necessary
start	Fuel system clogged	Clean the fuel screen in the tank
		Replacing the fuel filter
		Check the fuel screen in the carburettor
		Have checked by qualified expert personnel
	Set the engine stop switch to position "OFF"	Set the engine stop switch to position "ON"
	Engine oil level too low	Check the engine oil level, correct if nec-
	(The engine oil level warning lamp lights)	essary
	No ignition spark	Clean the spark plug, replace if necessary
		Check the ignition coil
	4	Have checked by qualified expert personnel
	Engine stop switch defective	Have checked by qualified expert personnel
	No fuel in carburettor	Check the fuel supply
		Have checked by qualified expert personnel
Engine does not	Recoil starter defective	Replace the recoil starter
crank when oper- ating the recoil starter	Spring broken	Replace the recoil starter
Starter rope of	Recoil starter dirty	Clean the recoil starter
recoil starter does not return to initial position	Insufficient pre-tension of the spring	Check the pre-tension of the spring, adjust if necessary
	Spring broken	Replace the recoil starter
Engine stops fre-	Fuel system clogged	Clean the fuel screen in the tank
quently in short intervals		Replacing the fuel filter
•.65		Check the fuel screen in the carburettor
		Have checked by qualified expert personnel
	Tank lid ventilation defective	Check that the tank lid ventilation is open, if necessary replace the tank lid
	Poor fuel quality	Check the fuel quality, if necessary change the fuel
Engine does not run with full speed	Throttle cable defective	Have checked by qualified expert personnel

Troubleshooting – Engine faults

Fault	Possible cause	Remedy
	Throttle cable incorrectly adjusted	Have checked by qualified expert personnel
	Air filter clogged	Clean the air filter, replace if necessary
	Engine oil level too high	Check the engine oil level, if necessary drain off engine down to the "MAX" mark
		Clean the air intake
Engi		Have checked by qualified expert personnel
	Exhaust blocked	Clean the exhaust
	Engine defective	Have checked by qualified expert personnel
	Carburettor defective	Have checked by qualified expert personnel
Engine runs irregularly	Basic setting of governor arm de- adjusted	Have checked by qualified expert personnel
Insufficient engine power	Spark plug defective	Check the spark plug, replace if necessary
	Incorrect valve clearance	Check, adjust if necessary
	Valve or valve seat worn or damaged	Have checked by qualified expert personnel
	Cylinder, piston or piston rings worn	Have checked by qualified expert personnel
Engine runs with high speed, but no vibration	Centrifugal clutch defective	Have checked by qualified expert personnel
	Mechanical defect	Have checked by qualified expert personnel

10.3 What to do if the engine has flooded

WARNING!

Loss of hearing caused by too high noise burdens!

Wear your personal protective equipment (ear protection).

Protective equipment: ■

Hearing protection

Safety shoes

Set the engine stop switch to position "OFF"

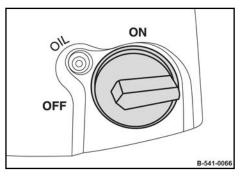
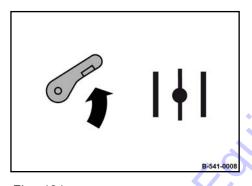


Fig. 120



2. Open the choke.



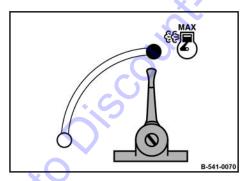
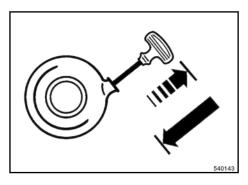


Fig. 122

3. Set the throttle lever to position "MAX".

Troubleshooting - What to do if the engine has flooded



4. Operate the recoil starter 10 to 20 times.

Fig. 123

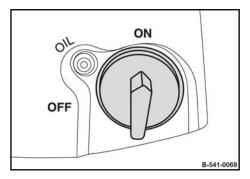


Fig. 124

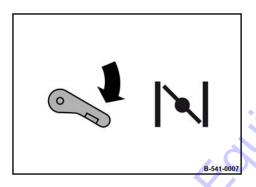


Fig. 125

5. Set the engine stop switch to position "ON".

6.



CAUTION!

Danger of injury caused by uncontrolled machine movement!

- Always hold on to a running machine.
- Always keep an eye on a running machine.

Operate the recoil starter once again.

- 7. If the engine does not start after 3 to 5 attempts, close the choke and operate the recoil starter once again.
- **8.** If the engine still does not start after 3 to 5 attempts, clean the spark plug.

Troubleshooting - What to do if the engine has flooded

Cleaning the spark plug

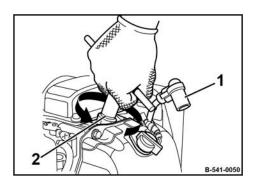


Fig. 126

Protective equipment: ■ Working clothes

Protective gloves

Safety goggles

Special tool: ■ 16 mm spark plug spanner

- **1.** Pull off the spark plug socket (1).
- 2. Unscrew the spark plug with a 16 mm spark plug spanner (2).
- 3. Operate the recoil starter several times.

4.



CAUTION!

Danger of eye injuries caused by particles flying around!

 Wear your personal protective equipment (safety gloves, protective working clothes, goggles).

Dry the spark plug with a clean cloth or blow it dry with compressed air.

- **5.** If necessary, clean the spark plug with a wire brush.
- **6.** Screw the spark plug carefully in by hand and once the sealing surface of the used spark plug is in contact tighten for another 1/8 to 1/4 turn with the spark plug spanner.
- 7. Plug the spark plug socket back on.
- 8. Repeat the starting procedure.

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Disposal - Final shut-down of machine

11.1 Final shut-down of machine

If the machine can no longer be used and needs to be finally shut down you must carry out the following work and have the machine disassembled by an officially recognized specialist workshop.



DANGER!

Danger to life caused by explosive gas-air mixes!

- Do not allow gasoline to come into contact with hot components.
- Smoking and open fire is prohibited.
- Keep gasoline away from heat sources, sparks and other sources of ignition.
- Do not spill any gasoline.
- Components that previously contained gasoline must not be cut with a cutting torch.



WARNING!

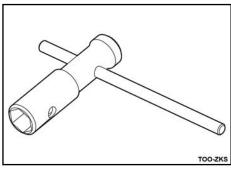
Health hazard caused by fuels and lubricants!

Protective equipment:

- Working clothes
- Safety shoes
- Protective gloves
- Safety goggles
- Empty the fuel tank.
- 2. Drain oil from engine and tamper foot.

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List of special tools



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