

STANLEY®

SRA COMPACTION RAMMER



**SRA 60
SRA 68**

USER MANUAL Safety, Operation and Maintenance



© 2015 Stanley Black & Decker, Inc.
New Britain, CT 06053
U.S.A.
74914 2/2016 Ver 3

DECLARATION OF CONFORMITY

DECLARATION OF CONFORMITY
ÜBEREINSTIMMUNGS-ERKLARUNG
DECLARATION DE CONFORMITE CEE
DECLARACION DE CONFORMIDAD
DICHIARAZIONE DI CONFORMITA

STANLEY.
Hydraulic Tools


I, the undersigned:
Ich, der Unterzeichnende:
Je soussigné:
El abajo firmante:
Io sottoscritto:

Weisbeck, Andy

Surname and First names/Familienname und Vorname/Nom et prénom/Nombre y apellido/Cognome e nome

hereby declare that the equipment specified hereunder: bestätige hiermit, daß erklaren Produkt genannten Werk oder Gerät: déclare que l'équipement visé ci-dessous: Por la presente declaro que el equipo se especifica a continuación: Dichiavo che le apparecchiature specificate di seguito:

1. Category: **Compaction Rammer**
Kategorie:
Catégorie:
Categoria:
Categoria:

2. Make/Marke/Marque/Marca/Marca **Stanley**

3. Type/Typ/Type/Tipo/Tipo: **SRA601H, SRA681H**

4. Serial number of equipment: **All**
Seriennummer des Geräts:
Numéro de série de l'équipement:
Número de serie del equipo:
Matricola dell'attrezzatura:

5. Mass/Masse/Masse/Masa/Massa 60 kg, 68 kg

Has been manufactured in conformity with, Wurde hergestellt in Übereinstimmung mit, Est fabriqué conformément
Ha sido fabricado de acuerdo con, E' stata costruita in conformità con

Directive/Standards Richtlinie/Standards Directives/Normes Directriz/Los Normas Direttiva/Norme	No. Nr Numéro No n.	Approved body Prüfung durch Organisme agréé Aprobado Collaudato		
Machinery Directive	2006/42/EG 2006/42/EC 2006/42/CE 2000/14/EG 2000/14/EC 2000/14/CE 2005/88/EG 2005/88/EC 2005/88/CE 2004/108/EG 2004/108/EC 2004/108/CE	Self Self Self Self Self Self Self Self Self Self Self Self		
Measurements: Messungen Mesures Mediciones Misurazioni	SRA60 Honda GX100 2.2 kW 105 dB 108 dB*	SRA60 Honda GXR120RT 2.7 kW 105 dB 108 dB*	SRA68 Honda GX100 2.2 kW 105 dB 108 dB*	SRA68 Honda GXR120RT 2.7 kW 105 dB 108 dB*

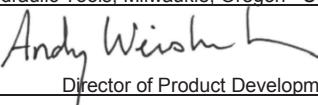
6. Special Provisions: Harmonized standards:
Spezielle Bestimmungen: **EN 500-1; EN500-4**
Dispositions particulières:
Provisiones especiales:
Disposizioni speciali:

7. Measurements: **Measured Sound Power Level**
Messungen
Mesures
Mediciones
Misurazioni

7. Measurements: **Guaranteed Sound Power Level***
Guaranteed Sound Power Level*
Annex VIII of 2000/14/EC

8. Representative in the Union: **Patrick Vervier, Stanley Dubuis 17-19, rue Jules Berthonneau-BP 3406 41034 Blois Cedex, France.**
Vertreter in der Union/Représentant dans l'union/Representante en la Union/Rappresentante presso l'Unione

Done at/Ort/Fait à/Dado en/Fatto a Stanley Hydraulic Tools, Milwaukie, Oregon USA Date/Datum/le/Fecha/Data 01-04-2015

Signature/Unterschrift/Signature/Firma/Firma 

Position/Position/Fonction/Cargo/Posizione Director of Product Development

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IMPORTANT

To fill out a Product Warranty Validation form, and for information on your warranty, visit Stanleyhydraulics.com and select the Company tab, Warranty.
(NOTE: The warranty Validation record must be submitted to validate the warranty).

SERVICING: This manual contains safety, operation, and routine maintenance instructions. Stanley Hydraulic Tools recommends that servicing this machine, other than routine maintenance, must be performed by an authorized and certified dealer. Please read the following warning.

⚠ WARNING

SERIOUS INJURY OR DEATH COULD RESULT FROM THE IMPROPER REPAIR OR SERVICE OF THIS TOOL.

REPAIRS AND / OR SERVICE TO THIS TOOL MUST ONLY BE DONE BY AN AUTHORIZED AND CERTIFIED DEALER.

For the nearest authorized and certified dealer, call Stanley Hydraulic Tools at the number listed on the back of this manual and ask for a Customer Service Representative.

SAFETY SYMBOLS

Safety symbols and signal words, as shown below, are used to emphasize all operator, maintenance and repair actions which, if not strictly followed, could result in a life-threatening situation, bodily injury or damage to equipment.



DANGER

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

! WARNING

This safety alert and signal word indicate a potentially hazardous situation which, if not avoided, could result in death or serious injury.

! CAUTION

This safety alert and signal word indicate a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

This signal word indicates a potentially hazardous situation which, if not avoided, may result in property damage.

NOTICE

This signal word indicates a situation which, if not avoided, will result in damage to the equipment.

IMPORTANT

This signal word indicates a situation which, if not avoided, may result in damage to the equipment.

Always observe safety symbols. They are included for your safety and for the protection of the tool.

LOCAL SAFETY REGULATIONS

Enter any local safety regulations here. Keep these instructions in an area accessible to the operator and maintenance personnel.

FOREWORD



These instructions include:

- Safety regulations
- Operating instructions
- Maintenance instructions

These instructions are intended to simplify operation of the machine and to avoid malfunctions through improper operation. Observing the maintenance instructions will increase the reliability and service life of the machine when used on the construction site and reduce repair costs and downtimes.

Always keep these instructions at the place of use of the machine.

Only operate the machine as instructed and follow these instructions.

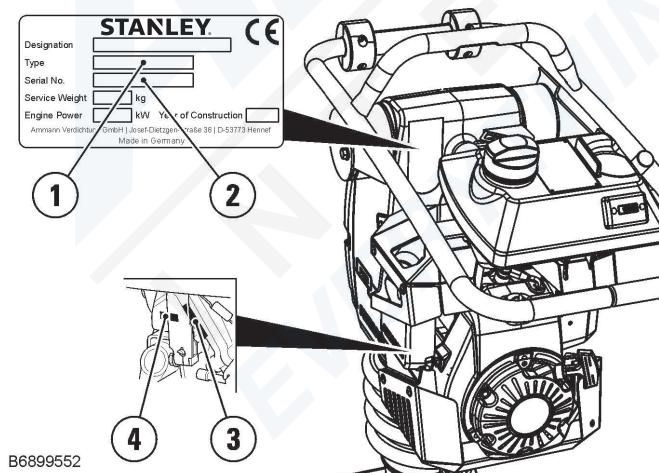
Do not fail to comply with the safety provisions, as well as the rules for safety and health protection at work as well as the applicable accident prevention regulations. Also observe the corresponding rules and regulations valid in your state and or country.

Stanley is not liable for the function of the machine when used in an improper manner and for other than the intended purpose.

Operating errors, improper maintenance and the use of incorrect operating materials are not covered by the warranty.

The above information does not extend the warranty and liability conditions of business of Stanley.

We reserve the right to make changes due to technical development without announcement.



PLEASE ENTER (DATA ON MACHINE TYPE PLATE)

1. MACH.-TYPE: _____

2. MACH.-NO.: _____

3. ENGINE-TYPE: _____

4. ENGINE-NO.: _____

SAFETY

This Stanley machine has been designed and constructed in conformance with current standards and directives. This machine can constitute a danger to persons and property if:

- It is not used for the intended purpose
- It is not operated by trained personnel
- It is incorrectly modified or converted
- The safety requirements are not observed

For this reason, all persons concerned with operation, maintenance and repair of the machine must read and follow the safety requirements. This may have to be confirmed with respect to the user company by signature.

The following also apply:

- The pertinent regulations for the prevention of accidents
- Generally recognised safety rules and road traffic regulations
- Country-specific requirements

Intended use

This machine is only intended for:

- The compaction of all types of surfaces
- Repairs to all types of surfaces
- Stabilisation of pavements and roads
- Working in trenches
- Underfilling and compaction of verges

Improper use

The machine can constitute a hazard if used improperly by untrained persons or not for the intended purpose.

For example:

- Working in horizontal direction
- Pile driving
- Compaction of verges

Who is allowed to operate the machine?

Only trained, instructed and authorised persons over the age of 18 may operate the machine. The responsibilities must be clearly defined and observed prior to operation of the machine.

In variance from this, minors can be employed, as long as it is necessary to their training objective and their protection is assured by a supervisor.

Persons who are under the influence of alcohol, medicines or drugs must not operate, maintain or repair the machine.

Maintenance and repairs, in particular of hydraulic systems and electronic components require special knowledge and must be carried out only by trained specialists (mechanics specialising in construction and agricultural machinery).

Conversions and changes to the machine

Unauthorised changes to the machine are not permitted for safety reasons.

Original parts and accessories have been specially designed for the machine. It should be noted that parts and special equipment not supplied by Stanley are not approved by Stanley. The installation and/or the use of such products can also affect the active and/or passive safety.

The manufacturer disclaims all liability for any damage caused by using non-original parts or special equipment.

Safety information contained in the operating and maintenance instructions

The following terms and symbols are used in this operating manual that draw attention to important information:



Attention



Danger



Important

Refers to special information and/or orders and prohibitions directed towards preventing damage

Refers to orders and prohibitions designed to prevent injury or extensive damage.

Refers to special information on how to use the machine most efficiently.

Loading the machine

Always shut off the motor when loading and transporting. Secure the machine to prevent it tilting or slipping.

A risk to life exists if persons walk or stand under suspended loads. It should be noted that the machine may swing when suspended. Secure the machine on transport vehicles to prevent it rolling, slipping or tilting.

Starting the machine

Before starting the machine

Familiarise yourself with the operating and control elements and mode of operation of the machine and the working area.

Use personal protective equipment (protective helmet, safety shoes, etc.) Use hearing protection.

Before starting the machine, check whether:

- The machine has any noticeable defects
- All protective devices are securely in place
- The control elements function
- The machine is free from oily and ignitable material
- All handles are free from grease, oils, fuels, dirt, snow and ice.

Only use machines that have been regularly maintained.

Starting in enclosed spaces, tunnels, mines or deep ditches

Engine exhaust gas are highly dangerous!

For this reason, when operating the machine in enclosed spaces, tunnels, mines or deep ditches, it is important to ensure that there is sufficient air to breath (see UVV «Construction work», BGV C22, paragraphs 40 and 41).

Operation

Guide the machine so that hands do not come against fixed objects; risk of injury.

Guide the machine so that the operator cannot be crushed between the machine and hard objects.

Listen for any abnormal noise and smoke. Locate the cause and have the damaged repaired.

Do not hold the throttle below «MAX», as this can damage the centrifugal clutch.

Never release the machine with the engine running. Keep feet away from the tamping base plate.

Parking the machine

If possible, park the machine on a level, firm surface.

Before leaving the machine:

Secure the machine to prevent it tilting.

SAFETY

Refuelling

Only refuel the machine with the engine switched off. Do not refuel the machine in enclosed areas.
Avoid naked flames, no smoking. Avoid fuel spillage.
Collect spilt fuel in a suitable container and prevent spillage entering the soil.
Do not inhale petrol fumes.

Maintenance

Only qualified and authorised persons may carry out maintenance work.
Keep unauthorised persons away from the machine.
Never carry out maintenance work with the engine running. Park the machine on a level, firm surface.

Working on the fuel system

Avoid naked flames, no smoking, avoid fuel spillage. Collect spilt fuel in a suitable container and prevent spillage entering the soil.
Dispose of spilt fuel in an environmentally acceptable manner.
Do not inhale petrol fumes.

Working on the engine

When working on the air filter, no dirt must fall into the air duct.
Do not work on the exhaust when hot; risk of burns!
When working on the engine exhaust port, no combustion residues must fall into the cylinder.
Do not touch the piston with cleaning tools.

Working on the tamping plate

Wipe off any excess oil, collect spilt oil in a suitable container and dispose of in an environmentally acceptable manner.
Keep oily materials in a specially marked container and dispose of in an environmentally acceptable manner.

Cleaning

Never clean the machine with the engine running.
Never use petroleum spirit or other flammable materials for cleaning purposes.
When using pressure cleaning equipment, do aim the jet directly at electrical parts and insulating material or cover these beforehand.
Do not place the water jet directly in the air filter, exhaust or air intake port.

After completing maintenance work

Refit all protective devices on completing maintenance work.

Repair

Only qualified and authorised persons may carry out repairs.
Exhaust gases are dangerous! When starting the machine in enclosed areas, sufficient ventilation must be ensured!
If the machine should break down, hang a warning sign on the control arm.

Testing

Road rollers, trench rollers and vibrating plates and tampers must be tested for safety depending on the operating conditions as required, however at least once a year by an expert.

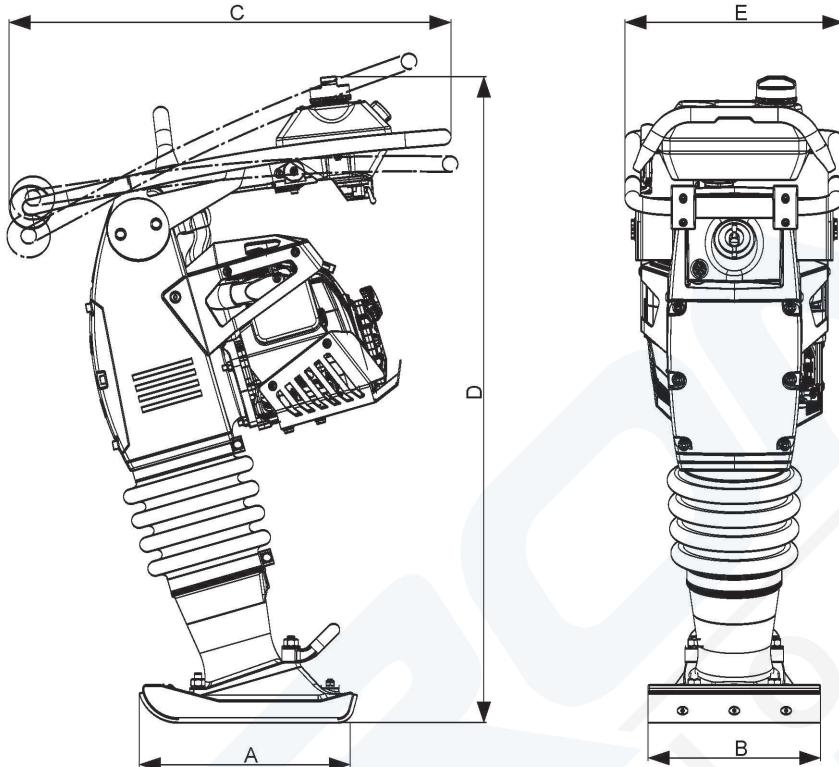
Disposal of the machine after finish of its service life

At disposal of the machine after finish of its service life, the owner is obliged to comply with national regulations and laws on wastes and protection of environment. Therefore we recommend in such cases to contact the following:

- professional specialized companies engaged in such activities and having the relevant certificate.
- the manufacturers or contracting service organizations authorized by him.

The manufacturer is not responsible for damages to health of owners neither for damages to the environment in events of failing to comply with above mentioned hygienic and ecological principles.

TECHNICAL DATA



	SRA 60	SRA 68
1. DIMENSIONS		
A	340 MM / 13.3 IN	
B	280 MM / 11 IN	
C	710 MM / 28 IN	
D	1020 - 1120 MM / 40.1 IN - 44 IN	
E	355 MM / 14 IN	
2. WEIGHTS		
SERVICE WEIGHT (CECE)	62 KG / 136.6 LB	68 KG / 150 LB
3. DRIVE		
ENGINE	HONDA GX100	HONDA GX100
TYPE	SINGLE-CYLINDER, FOUR-STROKE PETROL	
POWER OUTPUT ISO 9249	2.2 KW (3.0 HP)	
SPEED	4300 1/MIN	
COOLING	FORCED AIR	
TANK CAPACITIY	3.2 L / 0.85 GAL	
FUEL CONSUMPTION	ABOUT 0.9 L/H	
4. VIBRATION		
NUMBER OF IMPACTS	680 1/MIN	
JUMPING HEIGHT	UP TO 65 MM / 2.55 IN	
WORKING SPEED	UP TO 13.5 M/MIN.	
TAMPING CAPACITY	UP TO 225 M ² /H	
COMPACTION DEPTH, MAX.	UP TO 45 CM	UP TO 50 CM
IMPACT FORCE	11.5 KN	13 KN
IMPACT ENERGY	90 J	105 J

TECHNICAL DATA

	SRA 60	SRA 68		
5. OPTIONAL EQUIPMENT				
CYCLONIC FILTER	OPTION (STANDARD, NO GUAGE)			
TRANSPORTATION WHEELS BASE PLATE B=165 MM / 6.5 IN.	OPTION - TRAILER ASSY P/N-75085 SEE PARTS MANUAL PAGE 27 OPTION (P/N-75348)			
BASE PLATE B=200 MM / 8 IN.	OPTION (P/N-75347)			
BASE PLATE B=230 MM / 9 IN.	OPTION (P/N-75346)			
BASE PLATE B=330 MM / 13 IN.	OPTION (P/N-75358)			
BASE PLATE B=400 MM / 16 IN.	OPTION (P/N-75359)			
BASE PLATE B=340 MM ASYMMETRICAL TAMPING FOOT EXTENSION	OPTION (P/N-75367) OPTION (P/N-75370)			
6. NOISE AND VIBRATION DATA				
THE FOLLOWING NOISE AND VIBRATION DATA ACCORDING TO EC MACHINERY DIRECTIVE IN THE VERSION (2006/42/EC), WAS DETERMINED, TAKING INTO ACCOUNT THE FOLLOWING STANDARDS AND DIRECTIVES. IN OPERATIONAL USE, VALUES CAN DEVIATE DEPENDING ON THE PREVAILING CONDITIONS.				
6.1 NOISE DATA1) THE NOISE DATA SPECIFIED IN APPENDIX 1, SUB-CLAUSE 1.7.4.U OF THE EC MACHINERY DIRECTIVE IS FOR:				
SOUND PRESSURE LEVEL AT THE WORKPLACE LPA	94 dB			
MEASURED SOUND POWER LEVEL LWA, M	105 dB			
GUARANTEED SOUND POWER LEVEL LWA,G	108 dB			
THE NOISE VALUES WERE DETERMINED, TAKING INTO ACCOUNT THE FOLLOWING DIRECTIVES AND STANDARDS: DIRECTIVE 2000/14/EC / EN ISO 3744 / EN 500-4				
6.2 VIBRATION DATA HAND/ARM VIBRATION VALUES ACCORDING TO APPENDIX 1, SUB-CLAUSE 3.6.3.1 OF THE EC MACHINERY DIRECTIVE:				
TOTAL VIBRATION VALUE OF THE ACCELERATION AHV	13 m/s ²	11 m/s ²		
UNCERTAINTY K	1.0 m/s ²			
THE ACCELERATION VALUE WAS DETERMINED, TAKING INTO ACCOUNT THE FOLLOWING DIRECTIVES AND STANDARDS: EN 500-4 / DIN EN ISO 5349				

1) AS THE PERMISSIBLE RATING SOUND LEVEL OF 85 dB (A) CAN BE EXCEEDED BY THIS MACHINE, OPERATORS MUST WEAR HEARING PROTECTORS.

OPERATION

Description

The SRA 60 / 68 vibrating tamper is a reliable compacting device thanks to its stable, robust design.

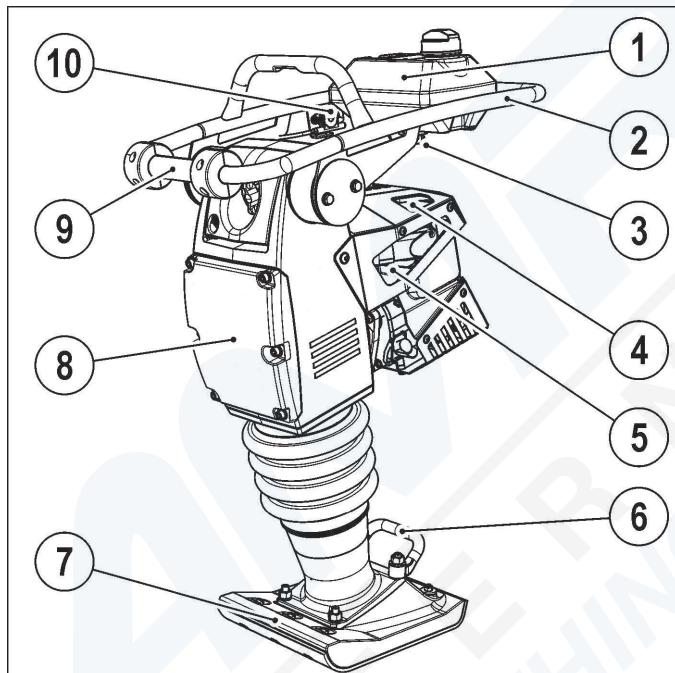
The engine drives the crank mechanism by a centrifugal clutch and a transmission.

The machine is to be used only for:

- Compacting all types of ground
- All types of ground repair work
- Paving pathways
- Work in ditches
- Underfilling and compression of shoulders

Danger Use caution on sloping embankments! Slipping hazard from rolling material and slick surfaces. Do not work on concrete or hardened surfaces.

Overview



- 1 FUEL TANK
- 2 GUIDE BAR, ADJUSTABLE
- 3 FUEL TAP
- 4 CHOKE LEVER
- 5 ENGINE
- 6 CARRYING HANDLE
- 7 PADFOOT
- 8 CENTRIFUGAL CLUTCH / CRANK MECHANISM
- 9 TRANSPORT ROLLER
- 10 ACCELERATOR



Use personal protective equipment (especially noise protection devices and safety shoes). Follow the safety instructions.

Follow the operation and maintenance manual.

Read the motor operating manual. Comply with its instructions for safety, operation and maintenance.

- Set the machine on an even surface.
- Inspection:
 - Motor oil level
 - Fuel supply
 - Padfoot oil level
 - Fuel tank and lines for leaks
 - Bellows for damage and leaks
 - Screw connections for tightness
 - Conditions of the motor and the machine
- If lubrication is needed, add it according to the lubrication chart.

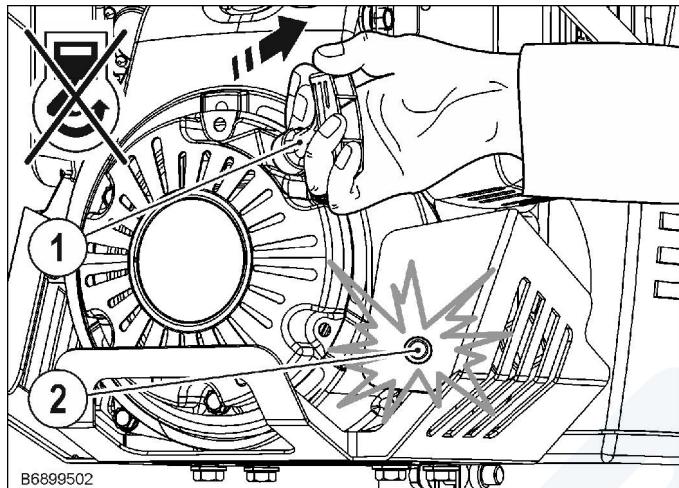
OPERATION

Engine Operation

Low oil protection

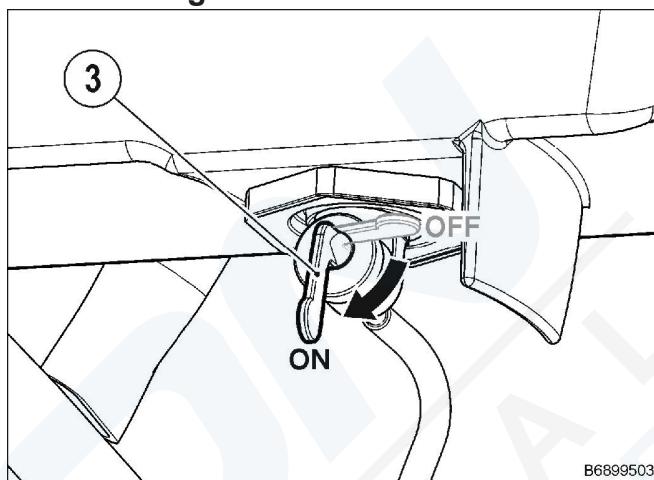
The motor is equipped with low oil protection:

- If the motor oil is too low, the motor won't start.

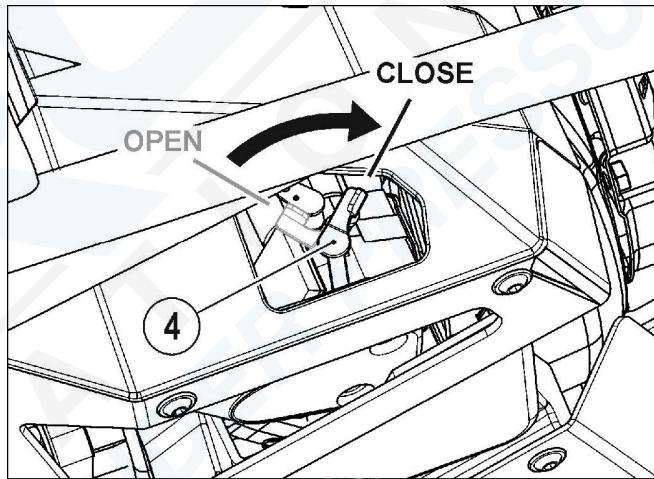


- When the starter handle (1) is pulled, the control light (2) blinks. In this case
 - Check the motor oil level and top it off, if necessary.
- Repeat the starting process.

Start the Engine



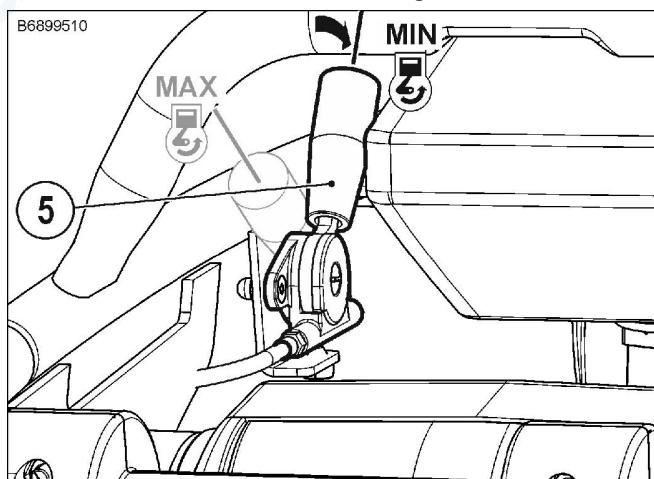
- Turn the fuel tap (3) «ON».



- Set the choke lever (4) to «CLOSE».



Important Do not use the choke (4) if the motor is hot or the outdoor temperature is high. If the motor doesn't start at operating temperature, close the choke before starting.

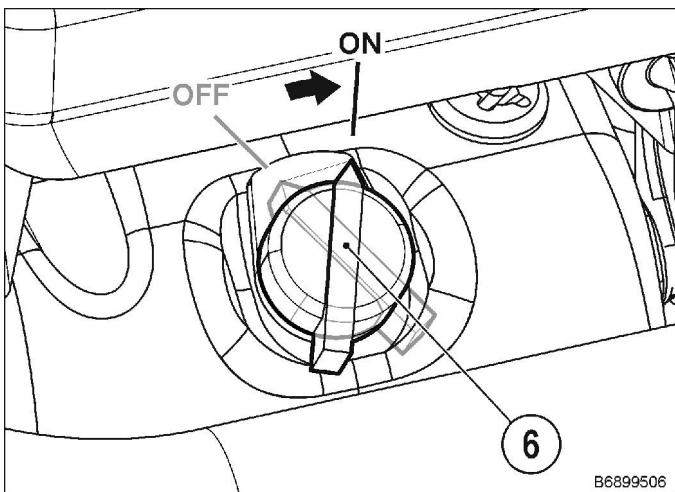


- Set the throttle (5) to «MIN».



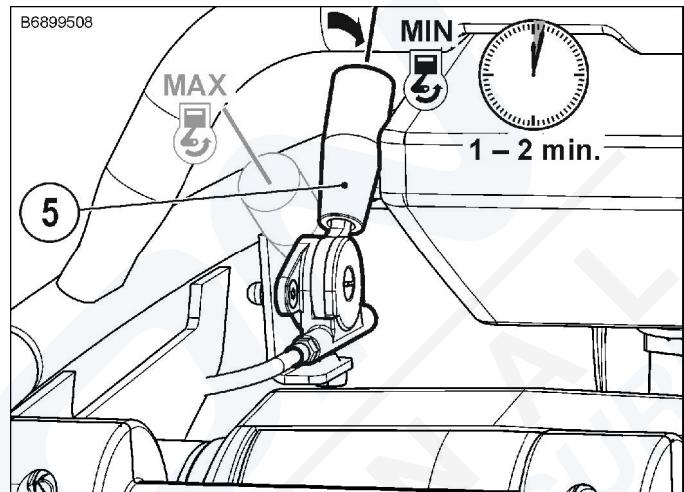
Important If the motor doesn't start, set the throttle lever about 1/3 of the way to «MAX».

OPERATION

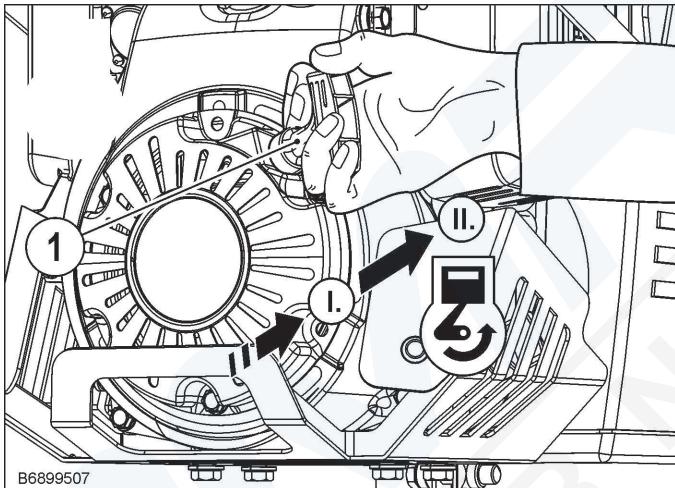


Turn the motor switch (6) to «ON».

After the motor starts

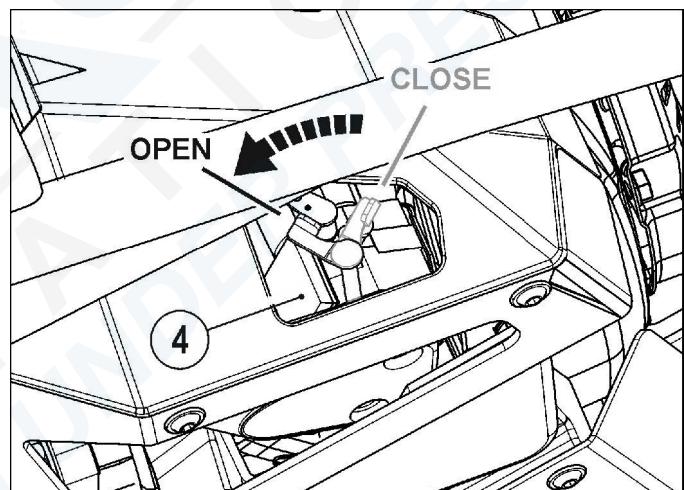


- Set the throttle lever to «MIN» (idle).
- Let the motor warm up for one or two minutes.



- Pull the starter handle (1) lightly until you feel resistance (I.), and then pull it hard all the way (II.).

Attention Don't let the starter handle (1) spring back against the motor. Manually return the starter rope back to the initial position to prevent damage to the starter.

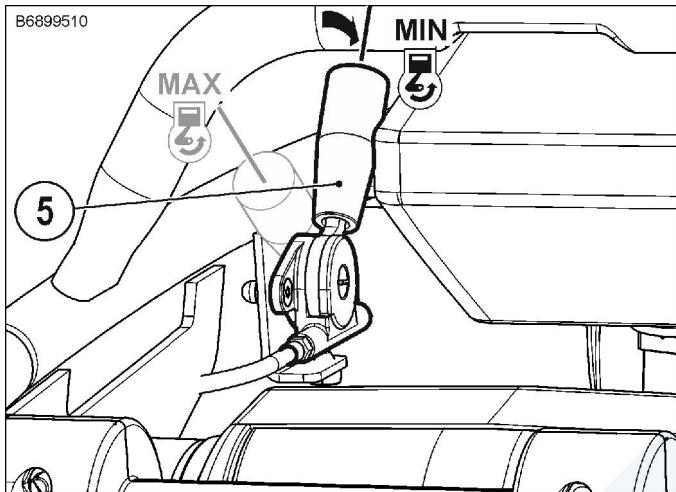


- Slide the choke lever (4) to «OPEN» while the machine warms up.

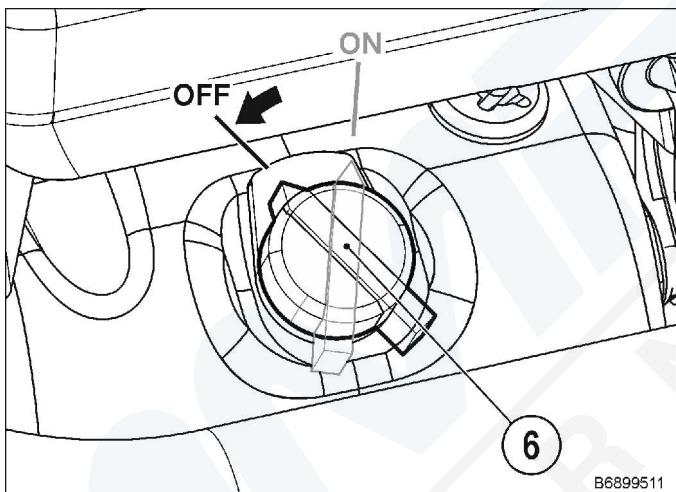
OPERATION

Shutting off the motor

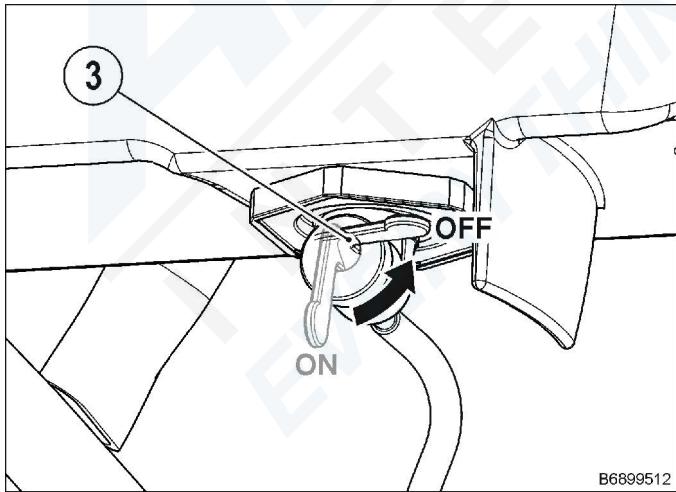
Important In emergency situations, turn the motor switch to «OFF» to shut off the motor.



- Set the throttle lever (5) to «MIN».



- Turn the motor switch (6) to «OFF».

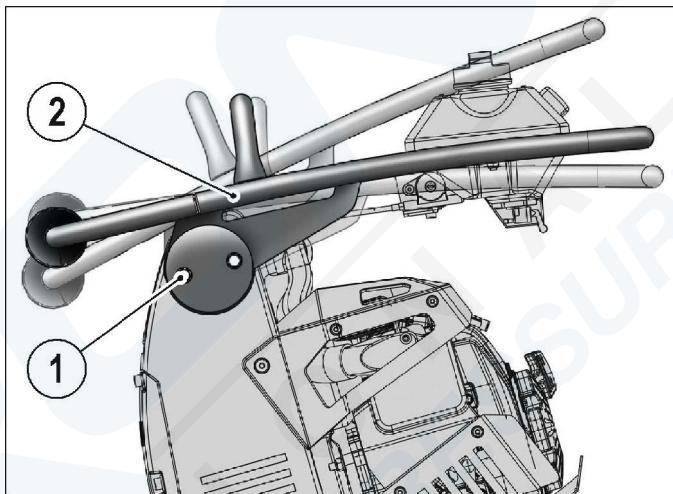


- Set the fuel tap (3) to «OFF».

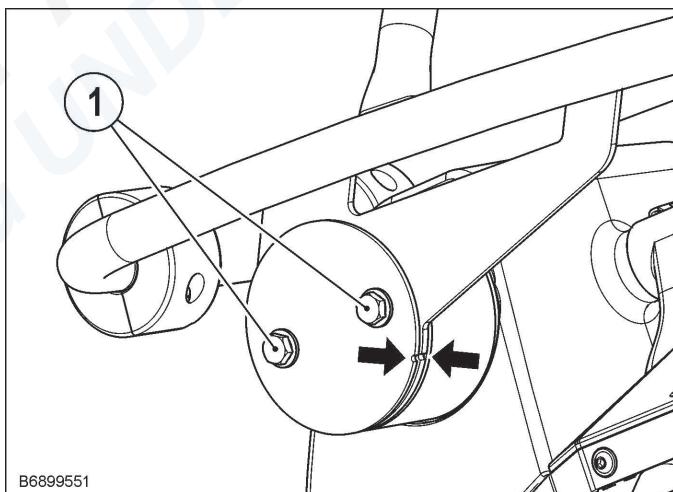
Working with the tamper

Setting the working height

Setting the guide bar out of the optimal position can increase hand/arm vibration. This must be considered when determining the exposure period.



- Loosen the screws (1) enough so that the bracket moves up and down. Do not take them completely out.
- Set the working height by turning the guide bar (2).
- Tighten the screws (1).



- To set the ergonomically optimal position
 - Loosen the screws (1),
 - Set the markers above one another.
 - Tighten the screws (1).

OPERATION

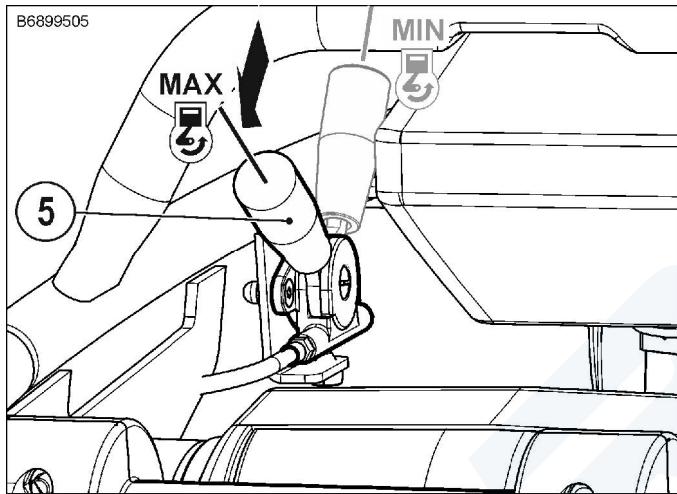
Operation



Guide the machine only with the guide bar, and don't lift it during operation.

Always keep an eye on the machine when its motor is running.

- The operator's position is in the forward direction behind the machine.



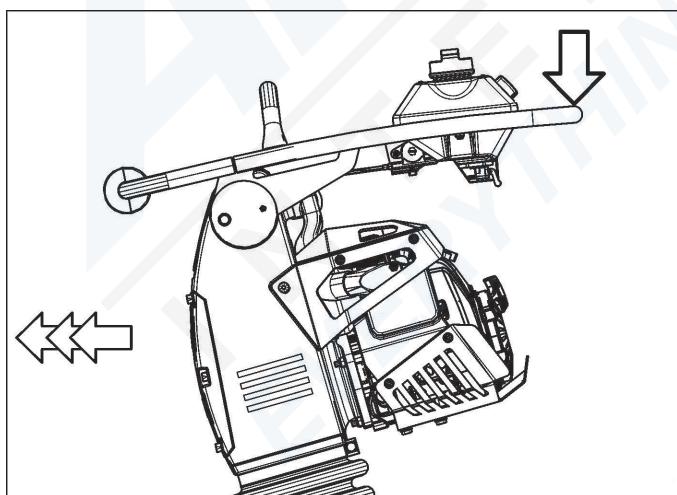
- Set the throttle (5) to «MAX»; the machine works at its highest frequency.



If the motor oil is too low, the motor won't start. The dumping height of the material to be compressed should not be higher than the vibrating tamper can drive over.

- To get uniform operating performance, throttle lever should be at max position.

Rate of Advance



- The rate of advance can be influenced in two ways:

- By changing the tilt:

Forward tilt	= forward quickly
Rearward tilt	= forward slowly

- By putting weight on the guide bar:

No weight	= forward slowly
Heavy weight	= forward quickly

TRANSPORT

Transporting and Loading

General Instructions



The machine must only be transported or loaded with the motor off.

Make sure that the machine does not endanger people by tilting or sliding.

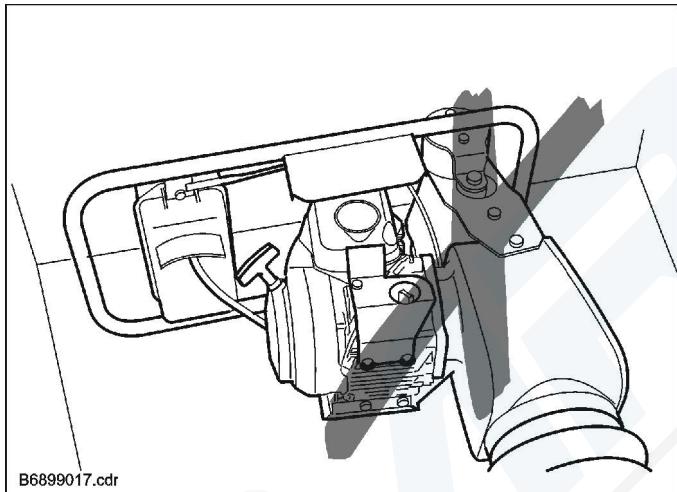
Tie the machine down so that it is secured against rolling, sliding or tipping over.

When lifting the machine, hang the lifting device only in the cross member provided.

The machine should not swing during suspension.

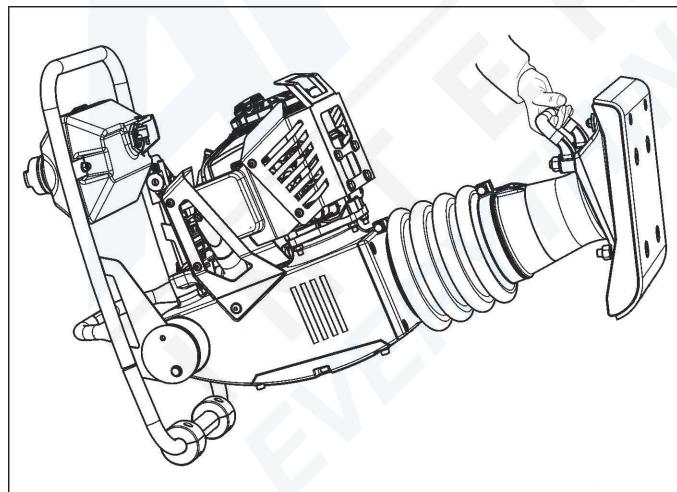
Do not stand under suspended loads.

Use only safe, sufficiently strong lifting devices.



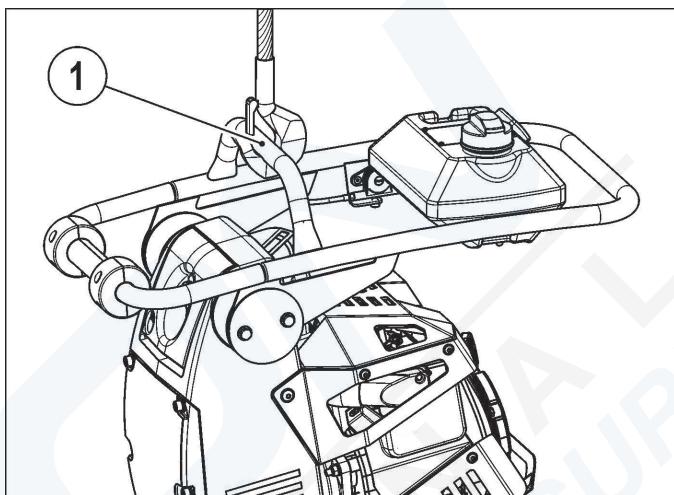
- Do not lay the tamper on the carburettor side.

Transporting over short distance



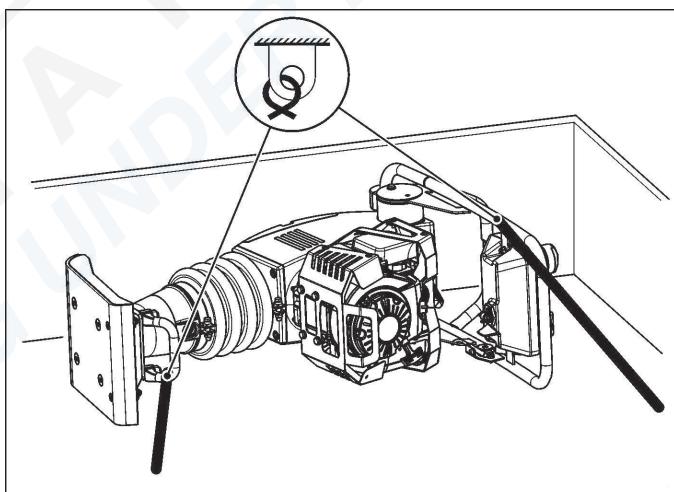
- Over short distances, transport the tamper lying on the castors, with the motor shut off.

Loading



- To load the tamper, hang the slinging equipment in the cross member (1).

Tying the machine down



- After loading the tamper on the vehicle, tie it down through the guide bar and handle.

MAINTENANCE

General Information

- Careful maintenance:
- Extended life expectancy.
- Higher functional reliability.
- Lower idle times.
- Higher reliability.
- Lower repair costs.
- Observe the safety regulations!
- Only carry out maintenance with the engine switched off.
- Before carrying out maintenance work, remove the spark plug connector.
- Clean the engine and machine prior to carrying out maintenance work.
- Park the machine on a level surface and secure to prevent rolling and slipping.

Maintenance Schedule

Works	Intervals	Daily	20 h	50 h	100 h	200 h	300 h	As Required
Clean machine		•						
Check engine oil level ¹⁾		•						
Change engine oil ¹⁾			• ³⁾		•			
Check air filter & Foam Air Filter ¹⁾		•						
Clean air filter & Foam Air Filter ¹⁾				•				•
Change air filter element ^{1) 2)}						•		•
Clean fuel filter ²⁾						•		
Check/clean spark plug ¹⁾				•				
Change spark plug ^{1) 2)}						•		
Check valve clearance ¹⁾						•		
Clean spark arrester ¹⁾						•		
Check timing belt ¹⁾							•	
Checking the bellows		•						
Tamping system: Check oil level		•						
Tamping system: Change oil ²⁾						•		
Check rubber buffers					•			
Check screwed connections for tightness			• ³⁾		•			
¹⁾ See engine operating manual								
²⁾ minimum once a year								
³⁾ for the first time								

MAINTENANCE

Lubrication Schedule

Lubricating point	Quantity	Changing intervals [operating hours]	Lubricant	Order No.
1. Engine				
Honda GX100	0.4 l	First time after 20 h; then every 100 h	Engine oil API SG-CE SAE 10W40	2-80601100
2. Tamping system				
	0.65 l	After 200 h or annually	Engine oil API SG-CE SAE 10W40	2-80601100

Alternative Lubrication Schedule

	Engine oil API SG-CE SAE 10W40	Gear oil in acc. with JDM J 20 C	Special hydro-oil ISO-VG 32	Hydr.-oil HVLP 46	ATF – oil
ARAL	Extra Turboral SAE 10W40	Fluid HGS	Vitam GF 32	Vitam HF 46	ATF 22
BP	Vanellus C6 Global Plus SAE 10W40	Hydraulik TF-JD	Energol HLP-HM 32	Bartran HV 46	Autran MBX
CASTROL	Tection SAE 10W40	Agri Trans Plus	Hyspin SP 32	Hyspin AVH-M 46	TQ-D
ESSO	Ultra 10W40	Torque Fluid 56	Univis N 32	Univis N 46	ATF 21611 II-D
FINA	a. Kappa FE b. Kappa Turbo DI	Transfluid AS	a. Hydran TSX 32 b. Biohydran TMP 32 ²⁾	—	Finamatic II D
FUCHS	Titan Unic MC	Agrifarm UTTO MP	a. Renolin ZAF 520 b. Plantohyd 32 S ²⁾	Renolin B 46 HVI	Titan ATF 3000
KLEENOIL PANOLIN	—	—	Panolin HLP Synth 32 ²⁾	—	—
MOBIL	a. Delvac SHC b. Mobil Super M 10W40 c. Mobil Super S 10W40 ¹⁾	a. Mobilfluid 424 b. Mobilfluid 426	Mobil DTE 24	Univis N 46	ATF 220
SHELL	Engine Oil DG 1040	Donax TD	Tellus T32	Tellus T 46	a. Donax TA b. Donax TX
TOTAL	Rubia Polytrafic 10W-40	Transmission MP	Azolla ZS 32	Equivis ZS 46	Fluide ATX

¹⁾Semi-synthetic light-duty oils

²⁾Biological multi-purpose hydraulic-oils;

The miscibility and compatibility with mineral oil based hydraulic oils and biological hydraulic-oils should be examined in the individual case.
The residual mineral oil content should be reduced acc. to VDMA specification 24 569.

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MAINTENANCE

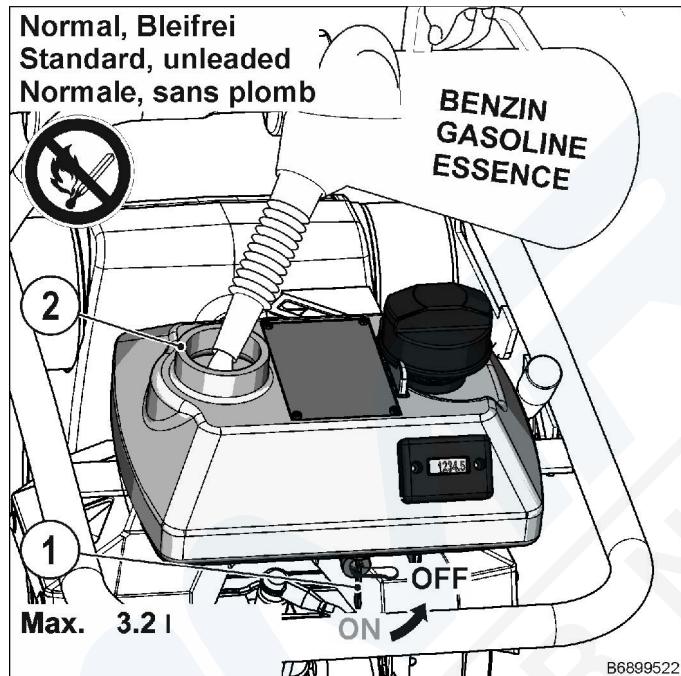
Motor Maintenance

This operating manual explains only the daily motor maintenance. Be aware of the motor operating manual and the maintenance instructions and intervals given in it.

Refill with fuel



- Add fuel only when the motor is shut off.
- No open flame.
- No smoking.
- Do not fill the tank in enclosed spaces.
- Do not inhale fuel fumes.
- Do not spill fuel. Clean up leaking fuel. Do not let it seep into the soil.



- Shut off the engine.
- Close the fuel tap (1).
- Clean the area around the fuel filler pipe (2).
- Open the fuel filler pipe.
- Visually check the fuel level. Refuel when the fuel is low.



Never use stale or contaminated petrol or an oil/petrol blend. Make sure no dirt or water gets into the fuel tank.

- Pour the fuel up to the lower edge of the tank's maximum fuel level line. Do not overfill. Use only unleaded fuel.
- Wipe up spilt petrol before starting the motor.
- Tightly close the fuel cap (2).

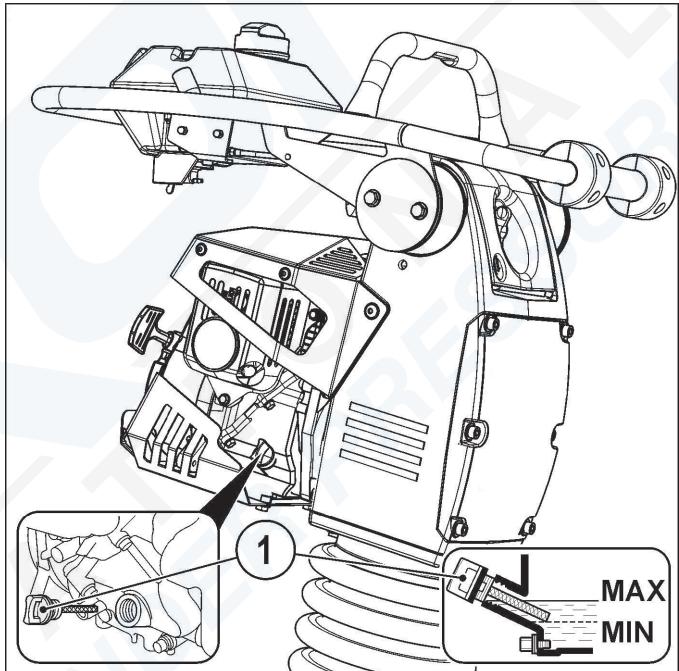
Checking the motor oil level



Collect used oil and dispose of it in an environmentally sound way.

Do not let oil seep into the ground or sewer. Replace defective seals immediately.

- Set the vibrating tamper aside horizontally.
- Shut off the engine.



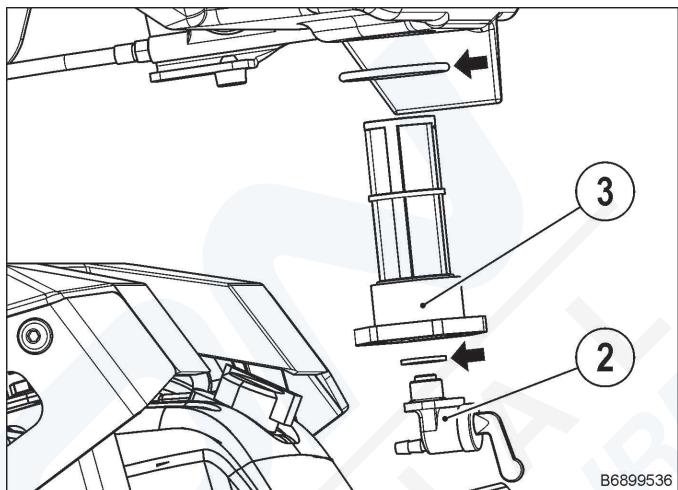
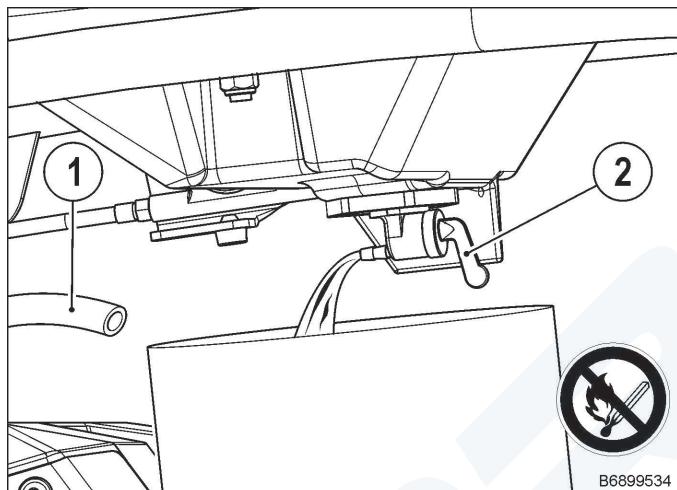
- Pull out the oil cap/dipstick (1) and clean it.
- Put the oil cap/dipstick (1) into the filler hole, but don't screw it in.
- Pull the oil cap/dipstick (1) out and check the oil level.
- If necessary, fill the oil to the upper limit mark (the lower edge of the filler hole). Do not overfill.
- Screw the oil cap/dipstick (1) in and lock it.

MAINTENANCE

Cleaning the Fuel Filter

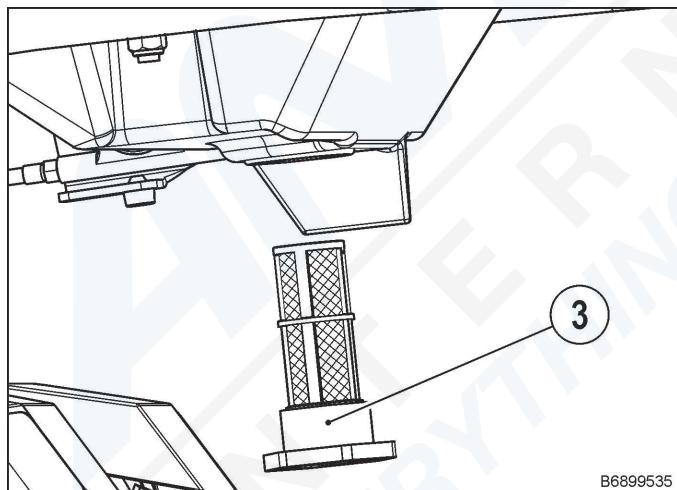


- No open flame.
- No smoking.
- Do not inhale fuel fumes.
- Do not spill fuel. Clean up leaking fuel.
- Do not let it seep into the soil.



- Put the fuel filter (3) and the fuel tap (2) back on.
Optionally use a new seal.
- Install the fuel hose.

- Loosen the fuel hose (1) and pull it off the fuel tap.
- Open the fuel tap (2).
- Drain and collect the fuel.
- Screw off the fuel tap (2).



- Screw off the fuel filter (3) and clean it in petroleum ether.

MAINTENANCE

Air Filter

Replace the filter element:

- when the filter element is damaged
- if there is wet or oily contamination
- after six cleanings
- if motor performance suffers
- at least once a year

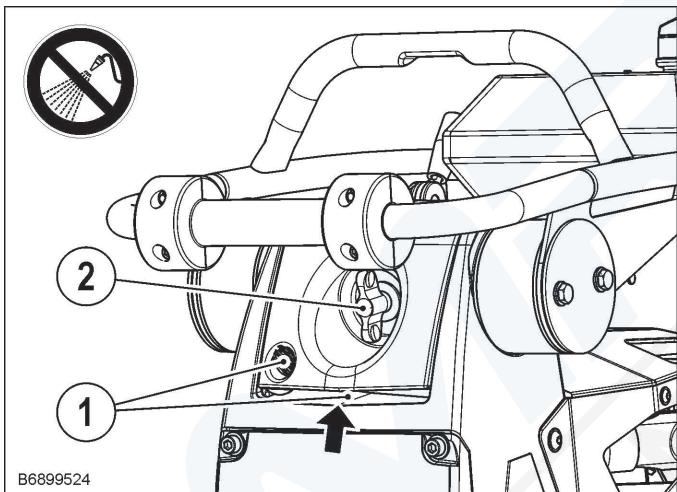
When cleaning the machine with a pressure washer, do not hold it directly over the air filter or pre-separator.

Never use petrol or cleaning solutions with a low flash point to clean the air filter element.

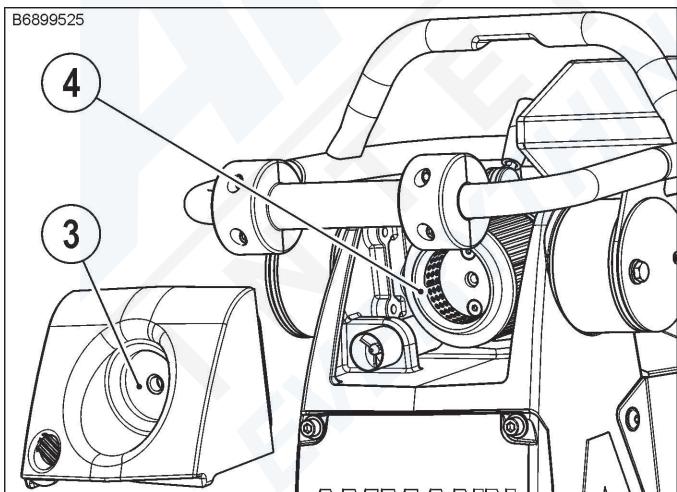
In the work area, do not smoke, and prevent open flames or sparks. These pose a fire or explosion hazard!

Never run the motor without an air filter.

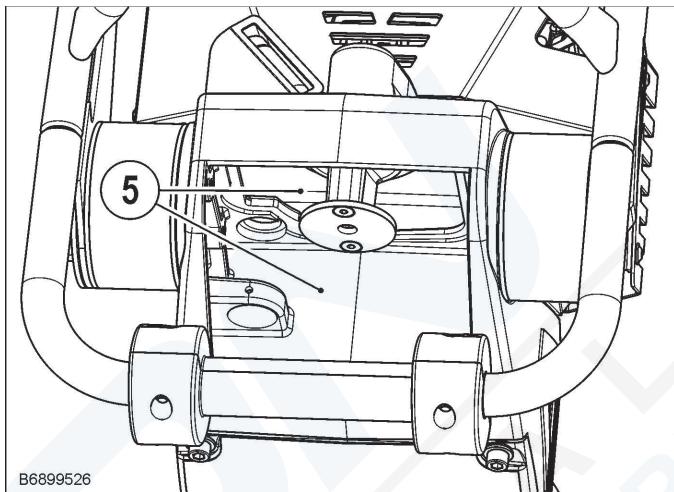
Do not allow dirt into the air channel and carburettor.



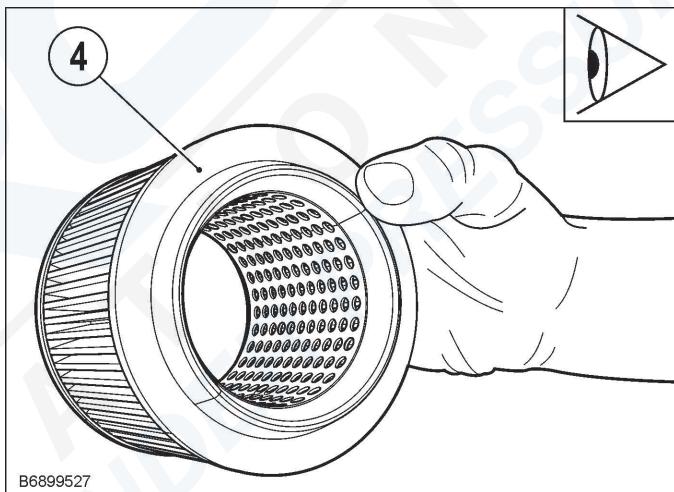
- Clean the intakes (1).
- Loosen the wing nuts (2).



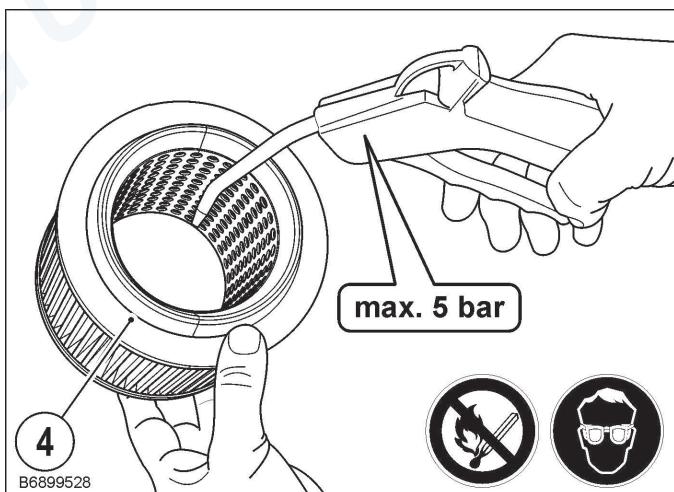
- Remove and clean the filter cover (3) with the wing nut.
- Carefully pull the filter cartridge (4) out of the filter housing (5).



- Clean the filter housing (5), especially at the back.



- Hold the filter cartridge (4) at an angle up to the light, or shine light through it, and check it for tears and other damage.



- Blow dry compressed air (max. 5 bar) through the filter cartridge (4) from the inside out.

Wear safety glasses - eye hazard!

Danger

- Note the number of filter cartridge cleanings.
- Carefully install the filter cartridge (4).
- Put on the filter cover (3).

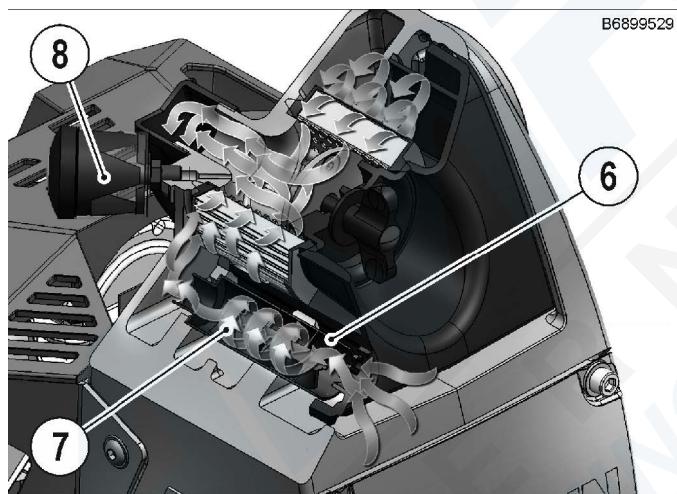
MAINTENANCE



Foam Air Filter

- Clean in warm soapy water, rinse, and allow to dry thoroughly. Or clean in non-flammable solvent and allow to dry.
- Dip the foam filter element in clean engine oil, then squeeze out all excess oil. The engine will smoke when started if too much oil is left in the foam.

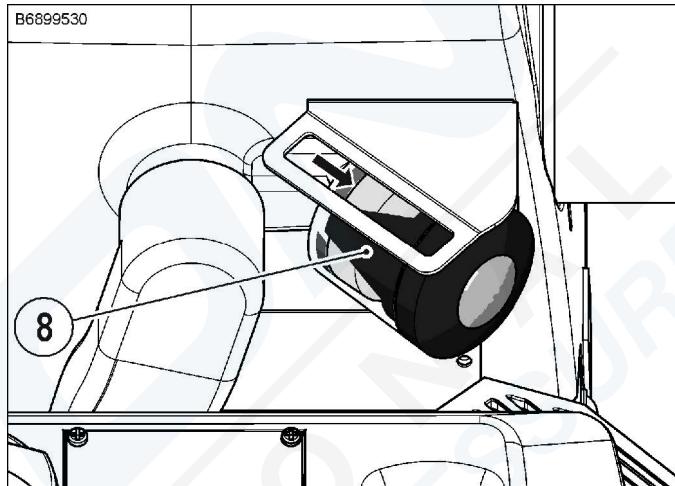
Pre-separator (cyclone) - option



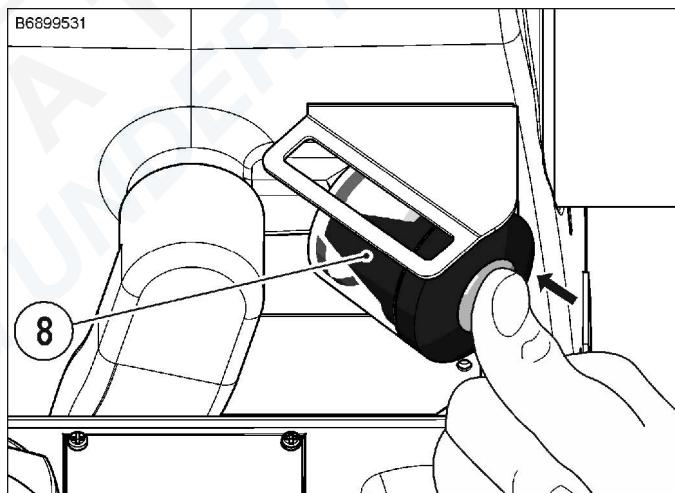
An exhaust air pre-separator (6) with an integrated dirt separator (7) connected to a visual air filter maintenance display (8) is available as an option. This makes the air filter last longer.

The pre-separator (6) is maintenance-free.

The visual maintenance display (8) allows the actual dirt level in the air filter to be read even when the motor is off. The yellow indicator bar has 12 stages. The display field shows the remaining air filter life as dirt builds up.



Filter maintenance is necessary when the yellow bar reaches the red zone. Perform filter maintenance as described in Section (Air Filter Pg 20).



After maintenance, the maintenance display can be reset with the press of a button.

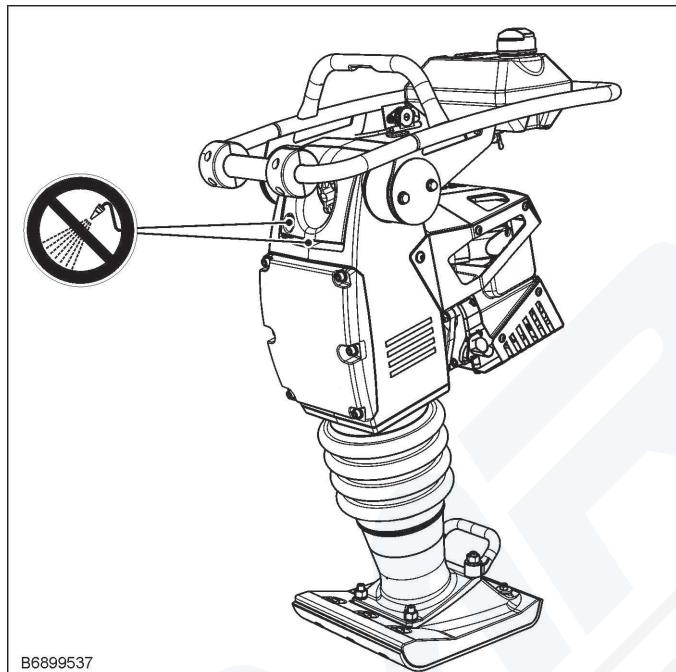
MAINTENANCE

Maintaining the Machine

Cleaning

Attention For cleaning, do not use any flammable or aggressive materials.

When cleaning the machine with a pressure washer, do not hold it directly over the air filter.



- Clean the machine daily.
- After cleaning, check the cables, hoses, wires and screw connections for leaks, loose connections, chafing and other damage.
- Repair any defects you see.

Tightening Torque

Ø	8.8		10.9		12.9	
	Nm	ft lb	Nm	ft lb	Nm	ft lb
M 4	3	2	4,4	3	5	4
M 5	6	4	8,7	6	10	7
M 6	10	7	15	11	18	13
M 8	25	18	36	26	43	31
M 10	49	36	72	53	84	61
M 12	85	62	125	92	145	106
M 14	135	99	200	147	235	173
M 16	210	154	310	228	365	269
M 18	300	221	430	317	500	368
M 20	425	313	610	449	710	523
M 22	580	427	830	612	970	715
M 24	730	538	1050	774	1220	899

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Strength grades for screws with untreated, unlubricated surfaces.

The values show 90% use of the yield strength; at a friction coefficient of $\mu_{tot} = 0.14$.

Tightening torque is controlled with torque wrenches.

The values given do not apply when MoS2 lubrication is used.

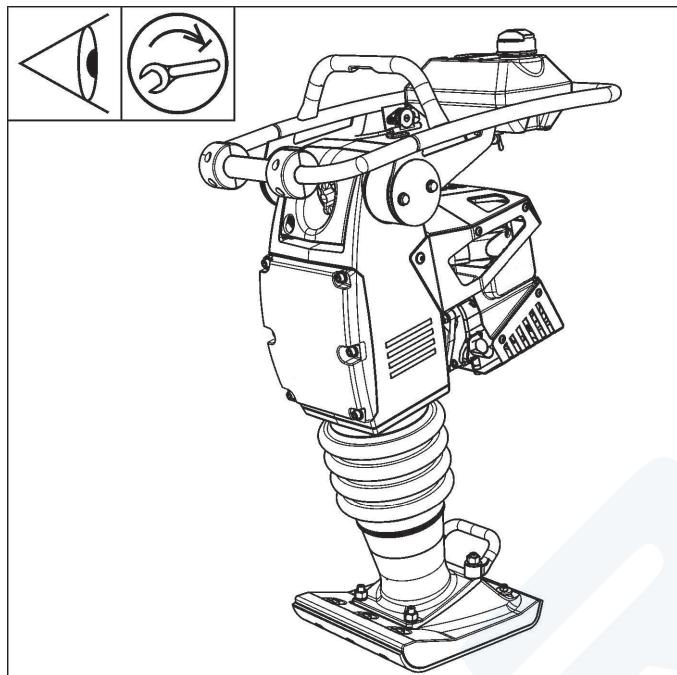


Replace all self-locking nuts after each disassembly.

Important

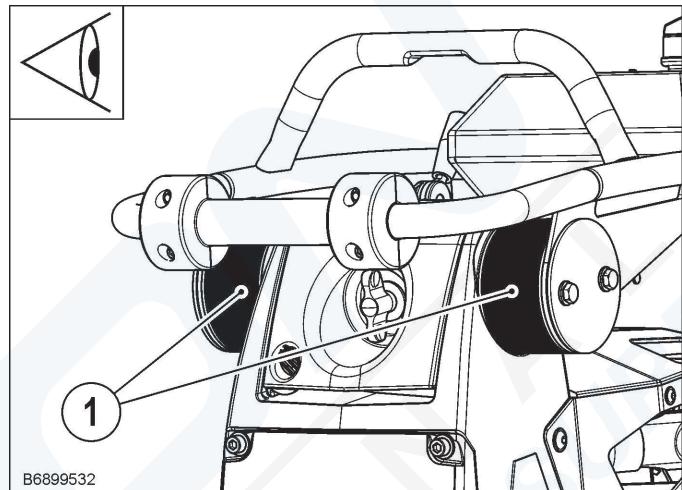
MAINTENANCE

Screw Connections



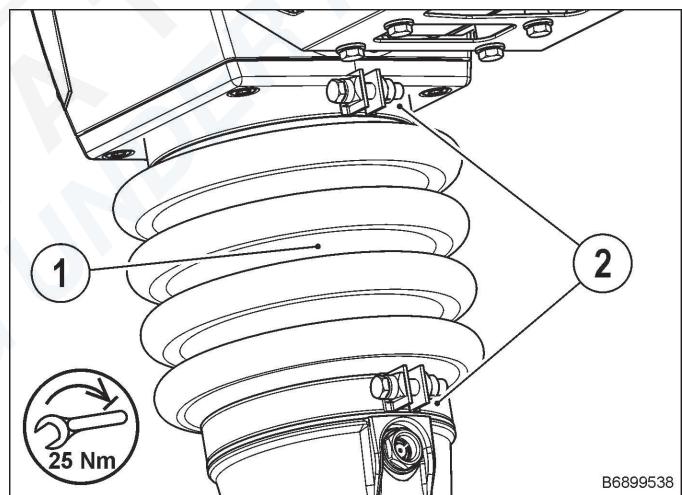
With vibrating devices, it is important to intermittently check the screw connections for tightness. Pay attention to the tightening torque.

Checking the Rubber Buffers



Check the rubber buffers (1) for tears and breaks, as well as for secure fit. If they are damaged, replace them immediately.

Checking the Bellows



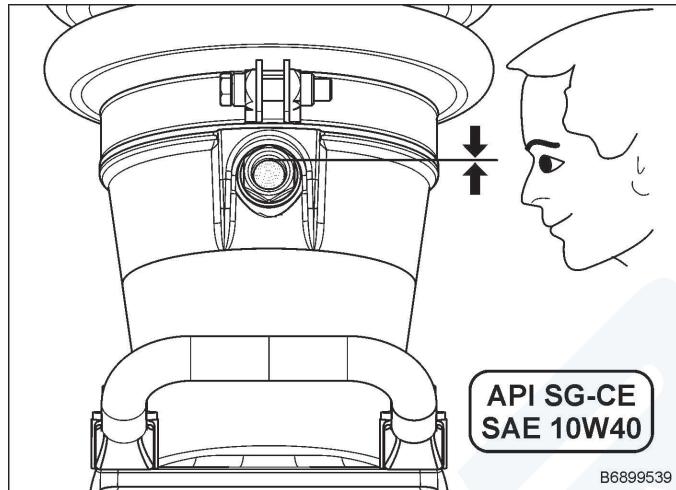
- Check the bellows (1) for condition and secure fit. Replace defective bellows immediately.
- Check mounting clips (2) for secure fit.

MAINTENANCE

Padfoot: Checking the oil level

- Stand rammer up vertically.
- Shut off the engine.

Important *Let the vibrating tamper stand for a little while so that the oil can run back into the housing.*



- Clean the oil sight glass.
- Check the oil level.
- The oil must be at least up to the upper edge of the sight glass. Top off the oil, if necessary.

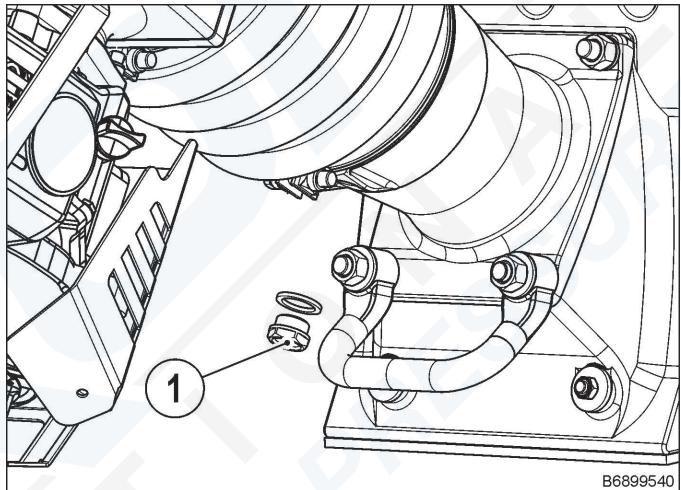
Padfoot: Changing the oil



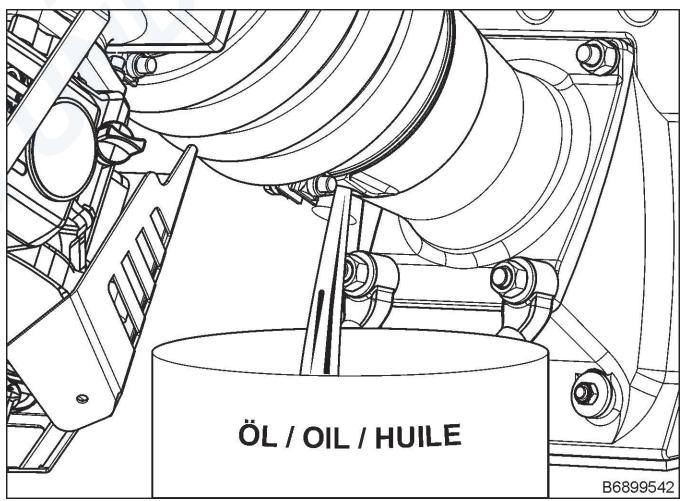
Use warm oil when changing the oil.



Perform the following tasks with extreme care and keep very clean.
Do not let any dirt or foreign objects fall into the open transmission housing or cylinder.



- Clean the oil sight glass (1); lay the tamper on its back and screw out the oil sight glass.

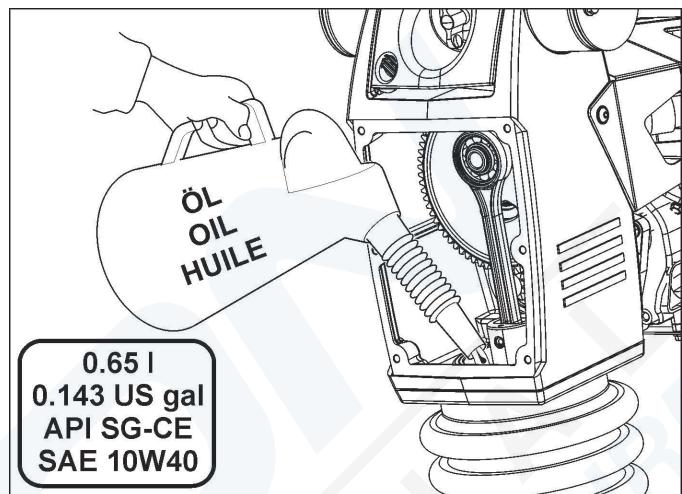
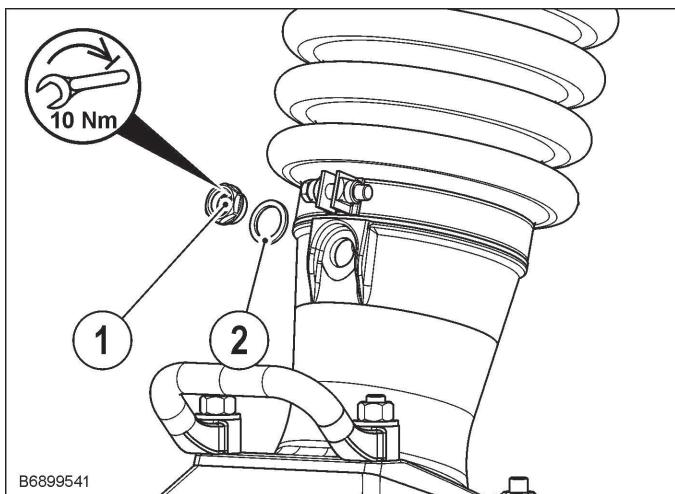


- Drain the used oil.

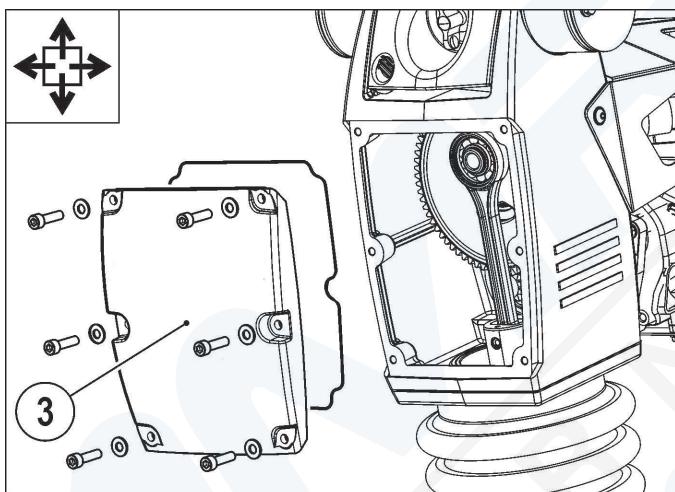


Collect used oil and dispose of it in an environmentally sound way.
Do not let oil seep into the ground or sewer.

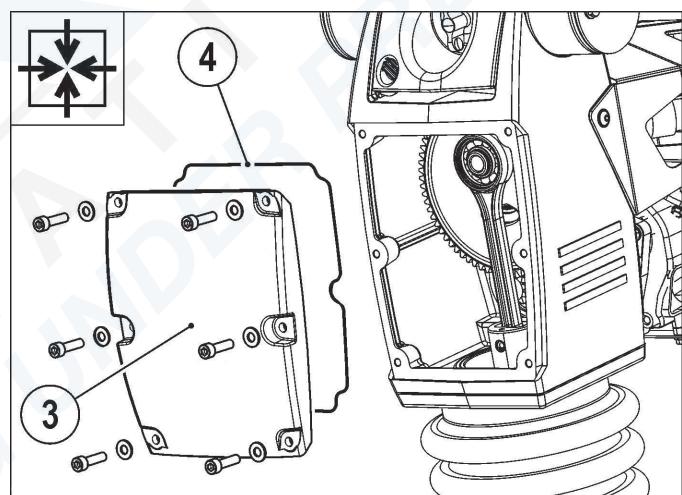
MAINTENANCE



- Stand the tamper back up, and screw in the oil sight glass (1) with its seal (2).



- Remove the housing cover (3).



- Check the oil level in the sight glass, and add oil, if necessary.
- Install the cover (3) with its seal, making sure the seal is seated properly. Replace defective seals.

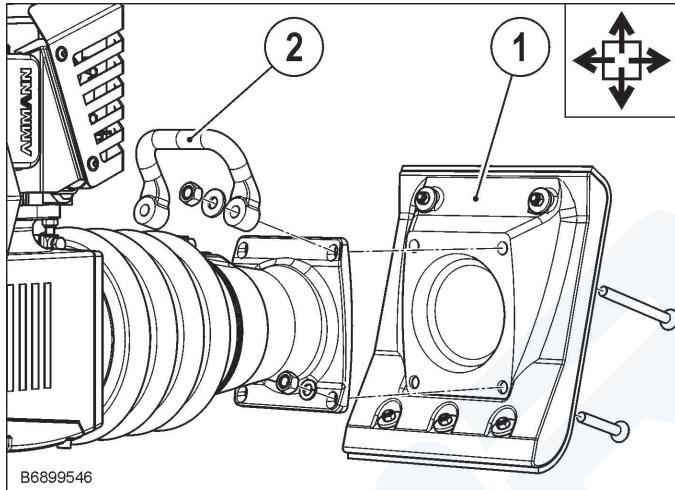
RETROFIT

Padfoot

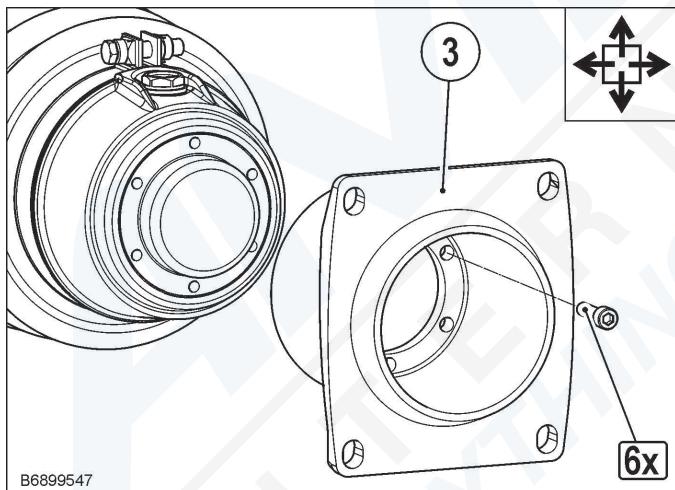
Installing the shortener and extensions

To change the working height, a tamping foot shortener and two extensions are available. To change, the adaptor between the padfoot and the suspension strut must be replaced.

- Lay the tamper on a firm, even surface (not on the carburettor side).



- Loosen and remove the padfoot (1) and handle (2).

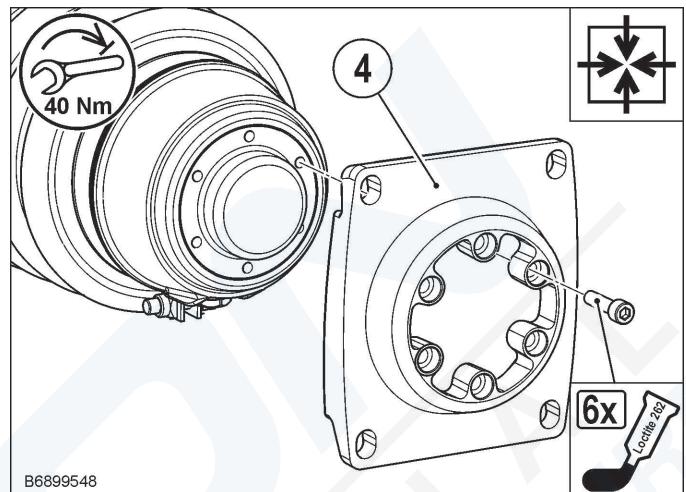


- Loosen and remove the adaptor (3).

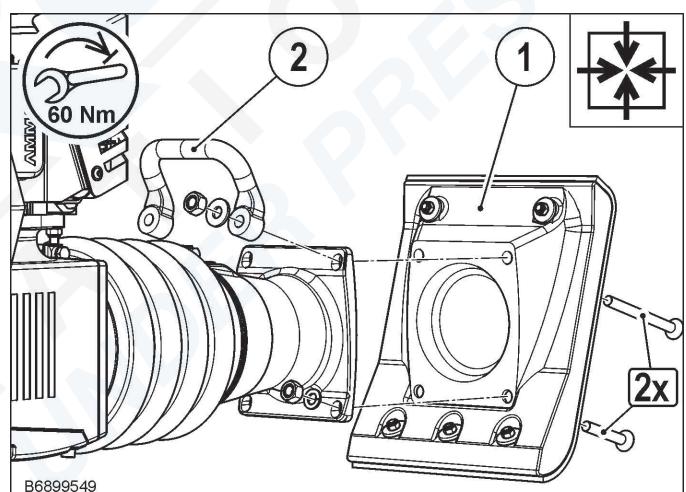


Keep the adaptor safe for later use.

Important



- Tightly screw on the adaptor or foot extension (4). Pay attention to the installation position.



- Install and tighten the padfoot (1) and handle (2).

TROUBLESHOOTING

General Information

- Observe the safety regulations.
- Only qualified, authorised persons may carry out repairs.
- In the event of faults, refer to the operating and maintenance instructions for correct operation and maintenance.
- If the fault cannot be located, refer repairs to Stanley Hydraulic Tools at the number listed on the back of this manual.
- Always first check items that are easily accessible (fuses, LED's, etc.).
- Avoid contact with rotating parts.

Troubleshooting Table

Problem	Possible Cause	Solution
Engine does not start	Fuel valve closed Fuel tank empty No ignition spark Ignition switch at «OFF» Ignition switch faulty Engine oil level too low	Set fuel valve to «ON» Refuel Change spark plug Have damage repaired Set ignition switch to «ON» Change ignition switch Check engine oil level
Engine does not start when starter is operated	Starter faulty Spring broken	Replace starter Replace starter
Starter cable of reversing starter does not return to initial position	Fouling Spring broken	Clean starter Replace starter
Engine does not reach top speed	Throttle cable faulty Incorrect throttle cable adjustment Air filter clogged Engine faulty Carburettor faulty	Replace Adjust throttle cable Clean filter cartridge or replace Replace engine/have damage repaired Replace carburettor
Engine runs at high speed, but no vibration	Centrifugal clutch faulty Connecting rod broken	Replace centrifugal clutch Contact Stanley Customer service
Tamper movement irregular, jumps	Incorrect speed Springs broken Throttle lever not at «max»	Correct speed Contact Stanley Customer Service Set throttle lever to «max»

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