Operator's manual

Modular internal vibrator

A5000

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Maskinen på forsidebilledet kan være udstyret med ekstraudstyr.

ISO 9001 Quality Management System

Producent

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Original betjeningsvejledning

CALIFORNIA Proposition 65 Warning

WARNING

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

WARNING

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

WARNING

Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

WARNING

Batteries, battery posts, terminals and related accessories contain lead and lead compounds, and other chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. WASH HANDS AFTER HANDLING.

1 Preface

This operator's manual contains important information and procedures for the safe, proper and economic operation of this Wacker Neuson machine. Carefully reading, understanding and observing is an aid to avoiding hazards, repair costs and downtime, and therefore to increasing the availability and service life of the machine.

This operator's manual is not a manual for extensive maintenance or repair work. Such work should be carried out by Wacker Neuson service or by technically trained personnel. The Wacker Neuson machine should be operated and maintained in accordance with this operator's manual. An improper operation or improper maintenance can pose dangers. Therefore, the operator's manual should be constantly available at the location of the machine.

Defective machine parts must be exchanged immediately!

If you have any questions concerning the operation or maintenance, a Wacker Neuson contact person is always available.

2 Introduction

2.1 Means of representation for this operator's manual

Warning symbols

This operator's manual contains safety information of the categories: DANGER, WARNING, CAUTION, NOTICE.

They should be followed to prevent danger to life and limb of the operator or damage to equipment and exclude improper service.

DANGER
This warning notice indicates immediate hazards that result in serious injury or even death.
► Danger can be avoided by the following the actions mentioned.

WARNING
This warning notice indicates possible hazards that can result in serious injury or even death.
► Danger can be avoided by the following the actions mentioned.

CAUTION
This warning notice indicates possible hazards that can result in minor injury.
► Danger can be avoided by the following the actions mentioned.

NOTICE
This warning notice indicates possible hazards that can result in material damage.
► Danger can be avoided by the following the actions mentioned.

Notes

Note: Complementary information will be displayed here.

Instructions

- ▶ This symbol indicates there is something for you to do.
- 1. Numbered instructions indicate that you have to carry out something in a defined sequence.
- ■ This symbol is used for lists.

2.2 Wacker Neuson representative

Depending on your country, your Wacker Neuson representative is your Wacker Neuson service, your Wacker Neuson affiliate or your Wacker Neuson dealer.

You can find the addresses in the Internet at www.wackerneuson.com.

The address of the manufacturer is located at the beginning of this operator's manual.

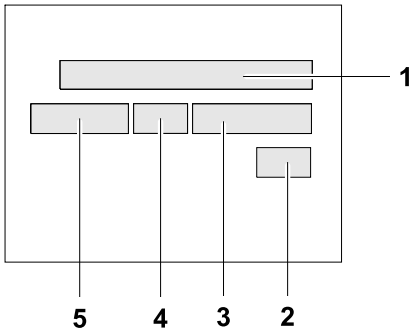
2.3 Described machine types

This operator's manual is valid for different machine types from a product range. Therefore some figures can differ from the actual appearance of your machine. It is also possible that the descriptions include components which are not a part of your machine.

Details for the described machine types can be found in the chapter *Technical data*.

2.4 Identification of the machine

Nameplate data



The nameplate lists information that uniquely identifies your machine. This information is needed to order spare parts and when requesting additional technical information.

▶ Enter the information of your machine into the following table:

Item	Designation	Your information
1	Group and type	
2	Construction year	
3	Machine no.	
4	Version no.	
5	Item no.	

3 Safety

3.1 Principle

State of the art

This machine has been constructed with state-of-the-art technology according to the recognized rules of safety. Nevertheless, when used improperly, dangers to the life and limb of the operator or to third persons or damage to the machine or other materials cannot be excluded.

Proper use

The machine may only be used for compacting fresh concrete. The vibrator head has to be immersed in the fresh concrete.

The vibrator head may not be immersed into acidic or alkaline liquids.

The vibrator head may not come into contact with or be inserted into parts of the body.

The drive, flexible shaft and vibrator head may only be combined with each other in the permitted configurations.

The drive may only be operated with certified vibrator heads and flexible shafts from Wacker Neuson.

The machine may not be used for the following purposes:

- Connecting non-authorized components to the drive.
- Operating the drive without a flexible shaft and vibrator head.

Its proper use also includes the observance of all instructions contained in this operator's manual as well as complying with the required service and maintenance instructions.

Any other use is regarded as improper. Any damage resulting from improper use will void the warranty and the liability on behalf of the manufacturer. The operator assumes full responsibility.

Structural modifications

Never attempt to modify the machine without the written permission of the manufacturer. To do so will endanger your safety and the safety of other people! In addition, this will void the warranty and the liability on behalf of the manufacturer.

Especially the following are cases of structural modifications:

- Opening the machine and the permanent removal of components from Wacker Neuson.
- Installing new components which are not from Wacker Neuson and not equivalent to the original parts in design and quality.
- Installation of accessories which are not from Wacker Neuson.

It is no problem to install spare parts from Wacker Neuson.

It is no problem to install accessories that are available in the Wacker Neuson product range of your machine. Please refer to the installation regulations in this operator's manual.

Requirements for operation

The ability to operate the machine safely requires:

- Proper transport, storage and setup.
- Careful operation.
- Careful service and maintenance.

Operation

Operate the machine only as intended and only when in proper working condition.

Operate the machine in a safety-conscious manner with all safety devices attached and enabled. Do not modify or disable any safety devices.

Before starting operation, check that all control and safety devices are functioning properly.

Never operate the machine in a potentially explosive environment.

Supervision

Never leave the machine running unattended!

Maintenance

Regular maintenance work is required in order for the machine to operate properly and reliably over time. Failure to perform adequate maintenance reduces the safety of the machine.

- Strictly observe the prescribed maintenance intervals.
- Do not use the machine if it requires maintenance or repairs.

Malfunctions

If you detect a malfunction, you must shut down and secure the machine immediately.

Eliminate the malfunctions that impair safety immediately!

Have damaged or defective components replaced immediately!

For further information, refer to chapter *Troubleshooting*.

Spare parts, accessories

Use only spare parts from Wacker Neuson or such that are equivalent to the original parts in design and quality.

Only use accessories from Wacker Neuson.

Non-compliance will exempt the manufacturer from all liability.

Exclusion of liability

Wacker Neuson will refuse to accept liability for injuries to persons or for damage to materials in the following cases:

- Structural modifications.
- Improper use.
- Failure to comply with this operator's manual.
- Improper handling.
- Using of spare parts which are not from Wacker Neuson and not equivalent to the original parts in design and quality.
- Using of accessories which are not from Wacker Neuson.

Operator's manual

Always keep the operator's manual near the machine or near the worksite for quick reference.

If you have misplaced the operator's manual or require an additional copy, contact your Wacker Neuson representative or download the operator's manual from the Internet (www.wackerneuson.com).

Always hand over this operator's manual to other operators or to the future owner of the machine.

Country-specific regulations

Observe the country-specific regulations, standards and guidelines in reference to accident prevention and environmental safety, for example those pertaining to hazardous materials and wearing protective gear.

Complement the operator's manual with additional instructions taking into account the operational, regulatory, national or generally applicable safety guidelines.

Operator's controls

Always keep the operator's controls of the machine dry, clean and free of oil or grease.

Operating elements such as ON/OFF switch, throttle levers etc. may not be locked, manipulated or changed without authorization.

Checking for signs of damage

Inspect the machine when it is switched off for any signs of damage at least once per work shift.

Do not operate the machine if there is visible damage or defects.

Have any damage or defects eliminated immediately.

3.2 Qualification of the operating personnel

Operator qualifications

Only trained personnel are permitted to start and operate the machine. The following rules also apply:

- You are physically and mentally fit.
- You have received instruction on how to independently operate the machine.
- You have received instruction in the proper use of the machine.
- You are familiar with required safety devices.
- You are authorized to start machines and systems in accordance with the standards governing safety.
- Your company or the operator has assigned you to work independently with this machine.

Incorrect operation

Incorrect operation or misuse by untrained personnel can endanger the health and safety of the operator or third persons and also cause machine and material damage.

Operating company responsibilities

The operating company must make the operator's manual available to the operator and ensure that the operator has read and understood it.

Work recommendations

Please observe the recommendations below:

- Work only if you are in a good physical condition.
- Work attentively, particularly as you finish.
- Do not operate the machine when you are tired.
- Carry out all work calmly, circumspectly and carefully.
- Never operate the machine under the influence of alcohol, drugs or medication. This can impair your vision, reactions and your judgment.
- Work in a manner that does not endanger others.
- Ensure that no persons or animals are within the danger zone.

3.3 Protective gear

Work clothing

Clothing should be appropriate, i.e. should be close-fitting but not restrict your movement.

When on construction sites, do not wear long hair loosely, loose clothing or jewelry including rings. These objects can easily get caught or be drawn in by moving machine parts.

Only wear clothing made of material that is not easily flammable.

Personal protective gear

Wear personal protective gear to avoid injuries or health hazards:

- Non-skid, hard-toed shoes.
- Work gloves made of durable material.
- Overalls made of durable material.
- Hard hat.
- Ear protection.

Ear protection

This machine generates noise that exceeds the country-specific permissible noise levels (individual rating level). It may therefore be necessary to wear ear protection. You can find the exact value in the chapter *Technical Data*.

When wearing ear protection while working, you must pay attention and exercise caution because your hearing is limited, e.g. in case someone screams or a signal tone sounds.

Wacker Neuson recommends that you always wear ear protection.

3.4 Transport

Switching off the machine

Before you transport the machine, it must be switched off, and the engine must be given sufficient time to cool down.

Emptying the tank

Wacker Neuson recommends that the fuel tank be emptied and the carburetor run dry prior to transporting it. Fuel could run out, e.g. if the machine is tilted.

Observe the national safety guidelines and the hazardous materials regulations that apply to the respective means of transportation.

Lifting

When lifting the machine, observe the following instructions:

- Designate a skilled person to guide you for the lifting procedure.
- You must be able to see or hear this person.
- Use only suitable and certified hoisting gear, lifting tackle and load-bearing equipment with sufficient lifting capacities.
- Only use the attachment points described in the operator's manual.
- Attach the machine securely to the hoisting gear.
- Ensure that no one is nearby or under the machine.
- Do not climb onto the machine.

Loading the machine

Loading ramps must be able to bear the load and be in a stable position.

Make sure that no one can be endangered if the machine slips away or tips over or if machine parts suddenly move upward or downward.

Put the operating controls and moving parts in their transport position.

Secure the machine with load-securing straps so that it cannot tip over, fall down or slide away. Only use the attachment points described in the operator's manual.

Transport vehicle

Use only suitable transport vehicles with sufficient load-carrying capacity and suitable tie-down lugs.

Restarting

Machines, machine parts, accessories or tools that were detached for transport purposes must be re-mounted and fastened before restarting.

Only operate in accordance with the operating instructions.

3.5 Operating safety

Explosible environment

Never operate the machine in a potentially explosive environment.

Work environment

Familiarize yourself with your work environment before you start work. This includes e.g. the following items:

- Obstacles in the work and traffic area.
- Load-bearing capacity of the ground.
- The measures needed to cordon off the construction site from public traffic in particular.
- The measures needed to secure walls and ceilings.
- Options available in the event of an accident.

Starting the machine

Observe the safety information and warning notices located on the machine and in the operator's manual.

Never attempt to start a machine that requires maintenance or repairs.

Start the machine as described in the operator's manual.

Vertical stability

Always make sure that you stand firmly when working with the machine. This applies particularly when working on scaffoldings, ladders, uneven or slippery floors etc.

Caution with hot parts

Do not touch any hot parts during or shortly after operation.

The following parts can become very hot and cause severe burns.

- Engine.
- Exhaust.
- Transmission.
- Vibrator head.
- Flexible shaft.

Caution with movable parts

Keep your hands, feet and loose clothing away from moving or rotating machine parts. Parts of your body being pulled in or crushed can cause serious injuries.

Do not use components of to machine for climbing on or holding onto

Never use the protective hose, power cable or other components of the machine for climbing on or holding onto.

Protecting the flexible shaft

Do not bend or kink the flexible shaft excessively.

Do not drag the flexible shaft over sharp edges.

If the flexible shaft jams in the reinforcement, switch off the drive and disconnect the flexible shaft from the drive. Then free the flexible shaft by carefully moving it back and forth.

Switching off the machine

Switch off the engine in the following situations:

- Before breaks.
- If you are not using the machine.

Before storing the machine, wait until it has completely stopped running.

Store the machine or put it down in such a way that it cannot tilt, fall down or slip.

Storage

Set the machine down or store it securely so that it cannot tilt, fall down or slip.

Storage location

After operation, allow the machine to cool and then store it in a sealed-off, clean and dry location protected against frost and inaccessible to children.

Vibrations

When manually operated machines are intensively used, long-term damage caused by vibrations cannot be precluded.

Observe the relevant legal instructions and guidelines to minimize vibration stress.

Details on vibration stress associated with the machine can be found in the chapter *Technical Data*.

3.6 Safety during the operation of combustion engines

Checking for signs of damage

Check the engine while switched off for leaks and cracks in the fuel line, tank and fuel cap at least once per work shift.

Do not operate the machine if there is visible damage or defects.

Have any damage or defects eliminated immediately.

Dangers during operation

Combustion engines can be dangerous, particularly during operation and when refueling.

Read and follow all safety instructions. Otherwise there is a risk of personal injury and/or damage to property!

Do not start the engine near spilt fuel or if you smell fuel – this may cause an explosion!

- Remove the machine from such areas.
- Remove the spilt fuel immediately!

Do not change the engine speed

Do not change the preset engine speed, as this may cause engine damage.

Preventing fires

Open flames and smoking are strictly prohibited in the immediate vicinity of the machine.

Make sure that waste, such as paper, dry leaves or grass do not accumulate around the exhaust muffler. The waste materials may ignite.

Safety precautions when refueling

Please observe the following safety-relevant instructions when refueling:

- Do not refuel near open flames.
- Do not smoke.
- Turn off the engine before refueling and allow it to cool down.
- Refuel in a well-ventilated environment.
- Wear fuel-proof protective gloves and, if there is the possibility of spraying, protective goggles and clothing.
- Do not inhale fuel vapors.
- Avoid skin and eye contact with fuel.
- For refueling, use clean tools such as a hopper.
- Do not spill fuel, especially onto hot parts.
- Remove any spilt fuel immediately.
- Use the correct fuel grade.
- Do not mix fuel with other liquids.
- Fill the tank only up to the maximum marking. If there is no maximum marking, do not fill up the tank completely.
- Lock the fuel cap securely after refueling.

Operation in closed rooms

In closed or partially closed rooms such as tunnels, drifts or deep trenches, ensure sufficient ventilation and extraction by, for example, providing a powerful exhaust air fan.

Danger of poisoning! Do not inhale exhaust fumes. They contain toxic carbon monoxide that can lead to unconsciousness or death.

Caution with hot parts

Do not touch any hot parts such as the engine block or exhaust muffler during operation or directly afterwards. These parts can become very hot and cause severe burns.

Not exceeding the maximum tilt position

- Do not exceed the maximum tilt position (see chapter *Technical Data*).
- Only operate the machine at maximum tilt for short periods of time.

If you exceed the maximum tilt, the engine lubrication system will fail and thus inevitably damage important engine parts.

Do not use any starter sprays

Highly flammable starter sprays pose a fire hazard.

Do not use any starter sprays.

Starter sprays are highly flammable and can cause backfiring and engine damage.

Shutting off the fuel tap

When the machine stops, shut off the fuel tap.

Cleaning the engine

Clean the engine when it is cool to remove any dirt.

Do not use gasoline or solvents. Danger of explosion!

Health hazard due to exhaust fumes

Warning

The engine's exhaust fumes contain chemicals which are known to the State of California to cause cancer, congenital defects or other reproductive anomalies.

Notes on the EPA engine

Caution

This machine is equipped with an EPA-certified engine.

Modifying the engine speed influences the EPA certification and emission. The engine may only be set by a skilled technician.

For more detailed information, contact your nearest engine or Wacker Neuson representative.

3.7 Maintenance

Maintenance work

Service and maintenance work must only be carried out to the extent described in these operating instructions. All other procedures must be performed by your Wacker Neuson representative.

For further information, refer to chapter *Maintenance*.

Switching off the engine

Before carrying out care or maintenance work, switch off the engine and allow it to cool down.

For gasoline powered engines, you must pull off the spark plug cap.

Handling operating fluids safely

Observe the following points when handling operating fluids, e.g. fuels, oils, greases, coolants etc.:

- Always wear personal safety clothing.
- Avoid skin and eye contact with operating fluids.
- Do not inhale or swallow operating fluids.
- In particular, avoid contact with hot operating fluids. Burn and scalding hazard.
- Dispose of replaced or spilled operating fluids according to the applicable regulations for environmental protection.
- If operating fluids escape from the machine, cease operation of the machine and have it repaired immediately by your Wacker Neuson representative.

Cleaning

Always keep the machine clean and be sure to clean it each time you have finished using it.

Do not use gasoline or solvents. Danger of explosion!

Do not use high pressure washers. Permeating water can damage the machine. When electrical equipment is present, this can pose a serious injury risk from electric shocks.

Assembling safety devices

If it was necessary to dismantle safety devices, they must be reassembled and checked immediately after completing maintenance work.

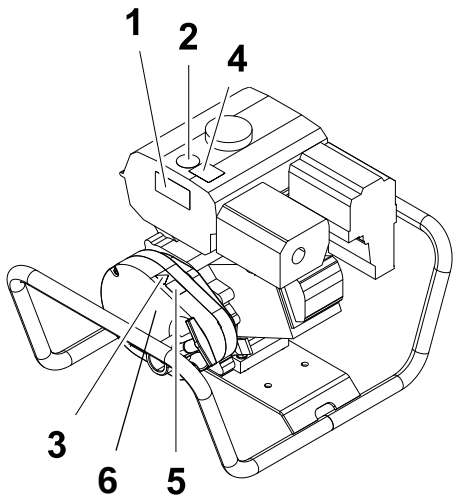
Always tighten loosened screw connections, complying with prescribed starting torque.

4 Safety and information labels

Your machine has adhesive labels containing the most important instructions and safety information.

- Make sure that all the labels are kept legible.
- Replace any missing or illegible labels.

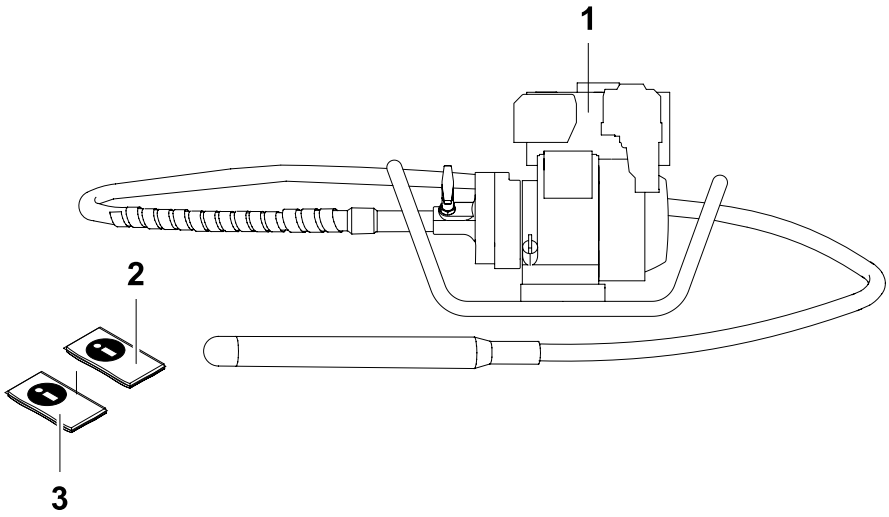
The item numbers for the labels are in the parts book.



Item	Label	Description
1		Wear personal protective gear to avoid injuries or health hazards: ■ Ear protection. Read the operator's manual before startup.
2		Danger of fire. Smoking and open flames are prohibited.
3		Warning of hot surface.

Item	Label	Description
4	US-machines 	Danger.
5	US-machines 	Caution.
6	US-machines 	Warning. From chemicals that cause cancer, birth defects or other reproductive damage.

5 Scope of delivery

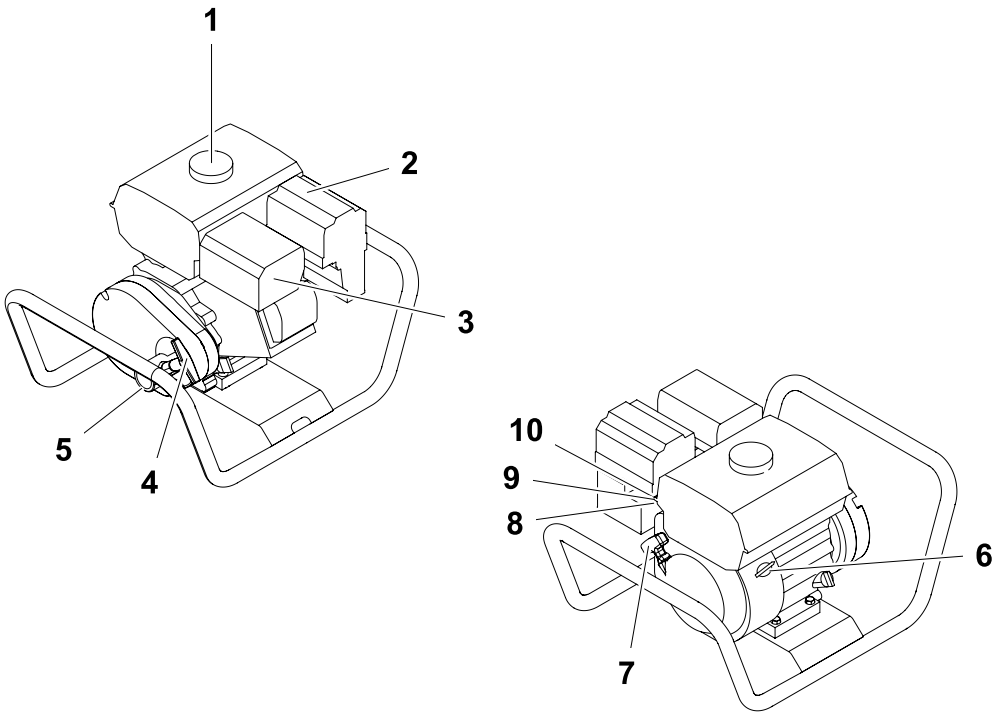


Item	Designation	Item	Designation
1	Drive	3	Parts book
2	Operator's manual		

The flexible shaft and vibrator head are not included in delivery and must be ordered separately.

6 Components and operator's controls

6.1 Drive components and operator's controls



Item	Designation	Item	Designation
1	Fuel tank	6	ON/OFF switch
2	Air cleaner	7	Recoil starter
3	Muffler	8	Throttle lever
4	Quick disconnect coupler	9	Choke
5	Connection to flexible shaft	10	Fuel tap

Quick disconnect coupler

The quick disconnect coupler is a secure combination of the flexible shaft to the drive and enables a fast change of the flexible shaft.

Air cleaner

The air cleaner protects the engine from contamination.

Recoil starter

The recoil starter starts the engine.

ON/OFF switch

You can turn the ignition and the engine on and off using the ON/OFF switch.

Fuel tap

The fuel tap opens or closes the fuel supply.

Choke

When the engine is cold or hot, also activate the choke in order to enrich the fuel-air mixture.

Throttle lever

The throttle lever can be used to set the engine speed.

The throttle lever has several positions:

- **Idle position**

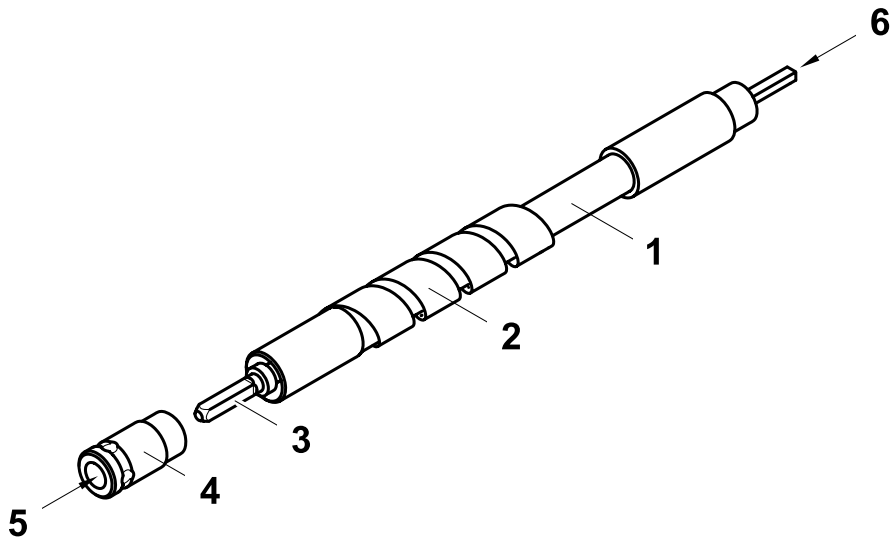
  Engine running at idle speed.

- **Full throttle position**

  Engine running at maximum speed.

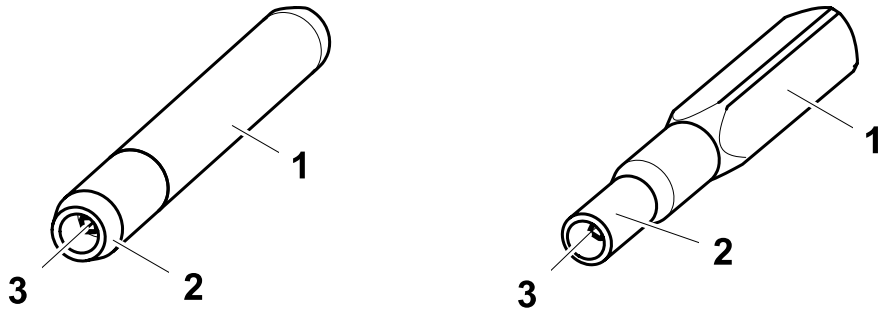
  Always put the throttle lever into the full throttle position when compacting.

6.2 Flexible shaft components



Item	Designation	Item	Designation
1	Protective hose	4	Coupling
2	Bend protection	5	Connection to drive
3	Shaft core	6	Connection to vibrator head

6.3 Vibrator head components



Item	Designation	Item	Designation
1	Housing	3	Shaft core adapter
2	Connecting piece		

7 Structure and function

7.1 Application

Use the machine only as intended, see chapter *Safety*, *Proper use*.

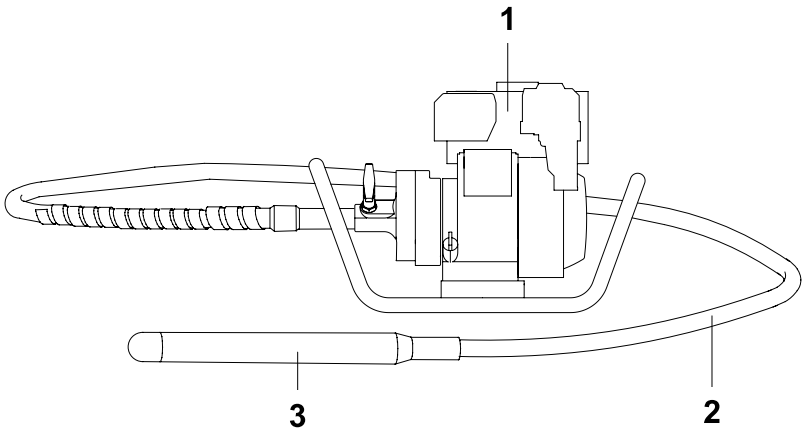
7.2 Functionality

Principle

The machine consists of the following components:

- Drive.
- Flexible shaft.
- Vibrator head.

You can combine these components in various designs depending upon the conditions of use.



Item	Designation	Item	Designation
1	Drive	3	Vibrator head
2	Flexible shaft		

By means of the flexible shaft, the drive drives the vibrator head, which generates high-frequency vibrations. These vibrations will cause the vibrator head to execute precessions.

Concrete is deaerated and compressed in the effective range of the vibrator head when the vibrator head is immersed into the fresh concrete.

The fresh concrete is simultaneously cooling the vibrator head.

Note: The concrete is being compressed for as long as bubbles of air arise.

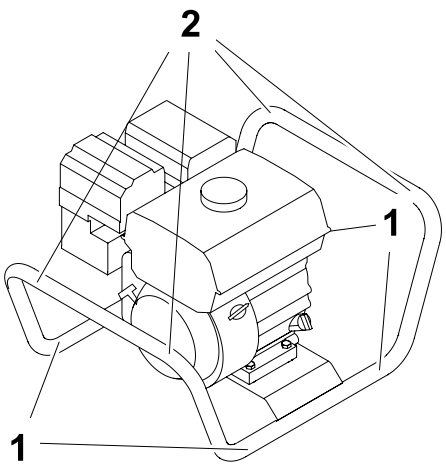
8 Transport

WARNING
Improper handling can result in injury or serious material damage.
- ► Read and follow all safety information of this operator's manual, see chapter *Safety*.

WARNING
Danger of fire and explosions by fuel.
Any fuel that escapes can ignite and cause severe burns.
- ► Lift and move the machine in the upright position.

WARNING
Danger of fire and burning due to burning oil.
When the machine is tipped oil can get into the exhaust and catch fire or cause an explosive flame.
- ► Do no tilt the machine.

8.1 Lifting eyes and tie-down lugs



Item	Designation	Item	Designation
1	Tie-down lugs	2	Lifting eyes

8.2 Transporting the machine

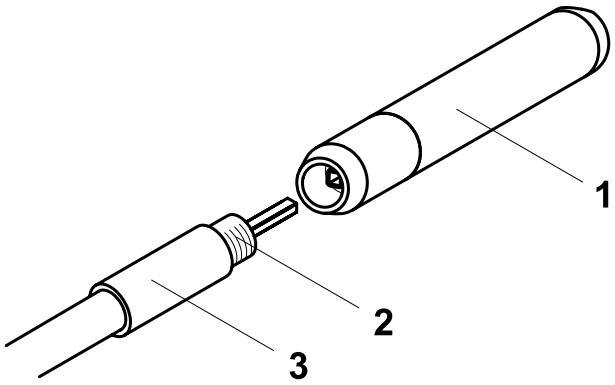
1. Switch off the engine.
2. Wait until the machine has come to a complete standstill.
3. Remove the flexible shaft from the drive.
4. Allow the drive and vibrator head to cool down.
5. Lift the drive onto the frame and transport it with the help of a second person.
6. Place all components on a suitable means of transport.
7. Fasten machine with all tie-down lugs.
8. Secure all components against falling or sliding.

9 Initial start up

9.1 Mounting the vibrator head

WARNING
Rotating parts.
Risk of injury to hands.
- ▶ Shut off drive.
- ▶ Disconnect the flexible shaft from the drive.

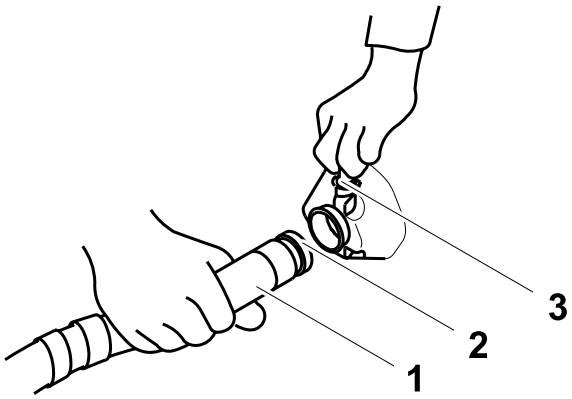
Screwing the flexible shaft on the vibrator head



Item	Designation	Item	Designation
1	Vibrator head	3	Flexible shaft
2	Thread		

1. Clamp flexible shaft in a vice with prism jaws.
2. Place pipe thread seal on the thread of the flexible shaft.
3. Place the vibrator head with the thread on the flexible shaft, while guiding the shaft core into the shaft core adapter of the vibrator head.
4. Screw the vibrator head on the flexible shaft (Caution! Left-hand thread) and tighten with large pipe wrench.
5. Let pipe thread seal cure for 24 hours.

Coupling the flexible shaft to the drive



Item	Designation
1	Flexible shaft
2	Coupling
3	Quick disconnect coupler

1. Set drive upright on the floor.
   Drive must be shut off.
2. Lift quick disconnect coupler.
3. Stick the flexible shaft coupling in the drive coupling, while guiding the shaft core in the shaft core adapter of the drive.
4. Guide the flexible shaft coupling until it stops.
5. Release the quick disconnect coupler.
6. Turn the flexible shaft until the quick disconnect coupler engages.
7. Control whether the quick disconnect coupler is completely engaged by pulling on the flexible shaft.

Note: If the flexible shaft core is new, the drive must run approx. 5 minutes with the flexible shaft connected (if necessary with the vibrator head as well).

10 Use and operation

WARNING
Improper handling can result in injury or serious material damage.
- ▶ Read and follow all safety information of this operator's manual, see chapter *Safety*.

10.1 Prior to starting the machine

10.1.1 Checks before startup

Checking the machine

Always check the following points before beginning work:

- Damage to the machine and to all components.

  If the machine is damaged, do not start the machine. Have any damage or defects eliminated immediately.
- Fuel level, see chapter *Maintenance*.
- Air cleaner, see chapter *Maintenance*.
- Engine oil level, see chapter *Maintenance*.

10.2 Starting up

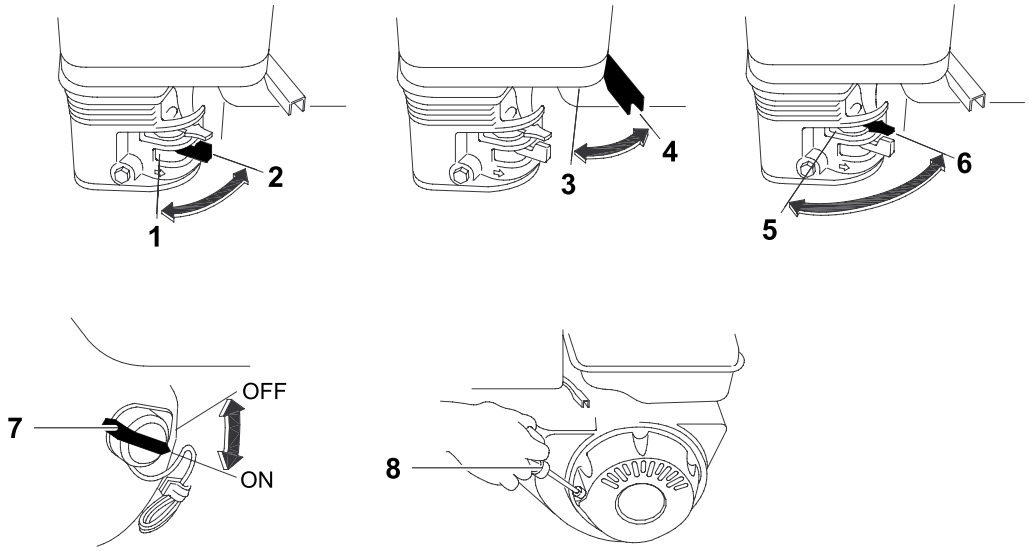
10.2.1 Starting the engine

NOTICE
Improper handling can damage the machine.
- ▶ Do not pull the starter rope as far as it can go.
- ▶ Let starter rope slowly roll back in.

CAUTION
Incorrect handling during starting can result in minor injuries.
- ▶ Do not pull the starter rope until sufficient space is available and nobody is in the immediate vicinity.

WARNING
Rotating shaft on the drive.
Risk of injury due to crushing.
- ▶ Only operate the drive when the flexible shaft is attached.

Starting the engine



Item	Designation	Item	Designation
1	Fuel tap open	5	Choke inactive
2	Fuel tap closed	6	Choke active
3	Throttle lever (idle)	7	ON/OFF switch
4	Throttle lever (full throttle)	8	Starter rope

1. Place the drive in an upright position on a level surface.
2. Open the fuel tap.
3. Set the choke lever to the appropriate position.
   Cold engine: Activate choke.
   Warm engine: Deactivate choke.
4. Set the ON/OFF switch to "ON".
5. Set the throttle lever to the middle position.
6. Pull out the starter rope slowly until compression resistance can be felt and then let it slowly roll back in again.
7. Pull the starter rope with force, but not suddenly (several times, if necessary) until the engine starts.
8. Let starter rope slowly roll back in.
9. Once the engine is running, deactivate the choke.

10.3 Operating the machine

Switching on the machine

1. Lift vibrator head from floor with protective hose, to prevent damage to the machine or foundation.
2. Set the throttle lever to the full throttle position.

Compacting fresh concrete

1. Quickly immerse the vibrator head in the fresh concrete, hold it for several seconds and slowly pull it out again.
2. Immerse the vibrator head in all areas of the formwork and compact the fresh concrete.

Note:

- Compact especially intensively in the area of formwork corners. In these areas, the reinforcement rate is the highest.
- Avoid contact of the vibrator head with the concrete reinforcement. The following damages are possible if the vibrator head comes into contact with the concrete reinforcement:
  - The connection of the concrete to the reinforcement can be lost.
  - The machine can be damaged.
- The result of the compacting depends on the following points:
  - Holding time of the vibrator head in the concrete.
  - Diameter of the vibrator head.
  - Consistency of the concrete.
  - Reinforcement rate.

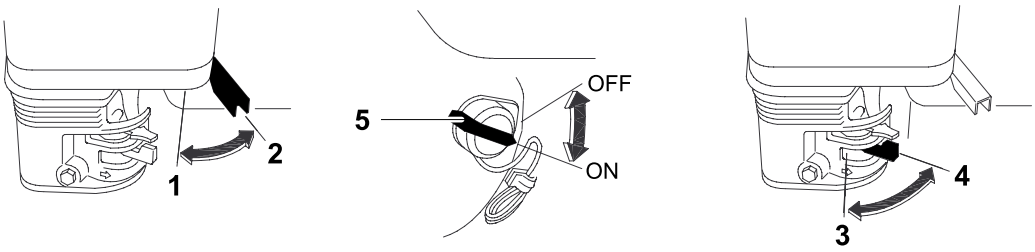
  If you use a vibrator head with a smaller diameter, the compacting time to achive the same results as with a vibrator head with a larger diameter will increase.
- Indications that the concrete is sufficiently compacted:
  - The concrete no longer sets.
  - Air bubbles no longer or rarely rise.
  - The sound of the vibrator head is not changing anymore.

10.4 Decommissioning

Switching off the engine

CAUTION
The vibrator head moves if it is turned on and not immersed in the fresh concrete.
Danger of injury or danger of damage to property by uncontrolled vibrator head.
- ▶ Switch the machine off before you put it down.

CAUTION
The vibrator head heats up if it is turned on and not immersed in the fresh concrete.
Hot surface can cause burns.
Damage to the machine with excessive wear.
- ▶ Do not operate the machine with the internal vibrator not immersed in the fresh concrete.



Item	Designation	Item	Designation
1	Throttle lever (idle)	4	Fuel tap closed
2	Throttle lever (full throttle)	5	ON/OFF switch
3	Fuel tap open		

1. Slowly remove the machine from the fresh concrete; hold the vibrator head in the air.
2. Set the throttle lever to the idle position.
3. Set the ON/OFF switch to "OFF".
4. Wait until the machine has come to a complete standstill.
5. Slowly set down the protective hose and vibrator head.
6. Close the fuel tap.

Disconnecting the flexible shaft from the drive

NOTICE
The coupling of the flexible shaft heats up during operation.
Hot surface can cause burns.
► Allow the coupling of the flexible shaft to cool before touching it.

1. Lift quick disconnect coupler.
2. Remove the flexible shaft coupling from the drive coupling.
3. Release the quick disconnect coupler.

Cleaning the machine

Clean the machine after each use.

1. Clean the vibrator head and protective hose with water.

   Note: You can remove concrete residuals by immersing the running machine into gravel.
2. Wipe the drive with a damp and clean cloth.

11 Maintenance

WARNING
Improper handling can result in injury or serious material damage.
- ▶ Read and follow all safety information of this operator's manual, see chapter *Safety*.

WARNING
Injury may be caused by uncontrolled startup and moving parts.
- ▶ Carry out maintenance work only when the engine is off.

11.1 Maintenance schedule

Task	Daily before operation	Every 50 hours or every 3 months.	Every 100 hours or every 6 months.	Every 300 hours or once a year.
Visual inspection of all parts for damage.	■			
Check that the connections are tight: ■ Flexible shaft – vibrator head: Tighten if necessary. ■ Flexible shaft – drive: If necessary, securely engage the coupling.	■			
Check fuel system for: ■ Fuel tank fill level. ■ Leaks in fuel tank and fuel cap.	■			
Check engine oil level.	■			
Check air cleaner.	■			
Change engine oil.	After the first 20 hours.			
Clean air cleaner. *		■		
Check wear dimensions of the vibrator head.		■		
Clean the filter cup.			■	

Task	Daily before operation	Every 50 hours or every 3 months.	Every 100 hours or every 6 months.	Every 300 hours or once a year.
Check/clean the spark plug.			■	
Clean the spark arrestor.			■	
Lubricate flexible shaft and replace plastic bushing.			■	
Change oil in vibrator head.			■	
Clean the fuel tank. **			■	
Clean/replace the fuel filter. **			■	
Replace air cleaner. *				■
Replace spark plug.				■
Check the valve clearance and have it adjusted. **				■
Clean the combustion chamber. **	Every 500 hours.			
Check/replace the gasoline hoses. **	Every 2 years.			

* Maintenance should be more frequent if used in a dusty environment.

** Have these tasks carried out by the service department of your Wacker Neuson representative.

11.2 Maintenance work

Working in the workshop

Perform maintenance work in a workshop on a workbench. This has the following benefits:

- Protection of the machine of contamination on the construction site.
- A level and clean work surface makes work easier.
- There is a better overview over small parts and they are not lost as easily.

11.2.1 Visual inspection

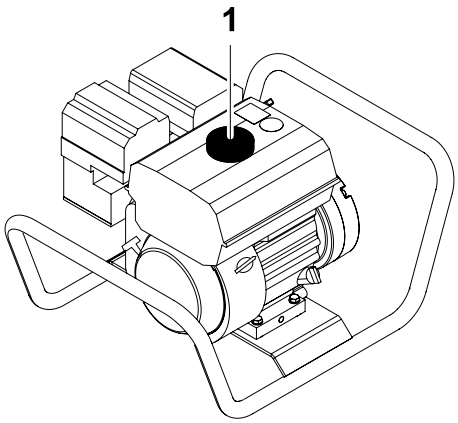
Checking the machine

► Check all machine components for damage or cracks.

11.2.2 Topping up with fuel

WARNING
Danger of fire and explosions by fuel and fuel vapors.
- ▶ Do not smoke.
- ▶ Do not refuel near open flames.
- ▶ Turn off the engine before refueling and allow it to cool down.

CAUTION
Health hazard due to fuel.
- ▶ Refuel in a well-ventilated environment.
- ▶ Do not inhale fuel vapors.
- ▶ Avoid skin and eye contact with fuel.



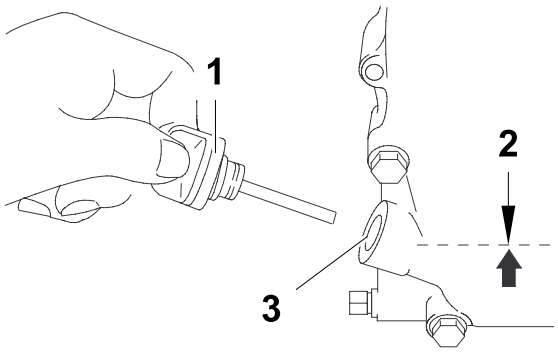
Item	Designation
1	Fuel cap

1. Turn off the engine and allow it to cool down.
2. Slowly unscrew and remove the fuel cap.
3. Top up with fuel.

   Do not fill up the tank completely!

   See chapter *Technical data* for the fuel specification.
4. Position the fuel cap and tighten it.

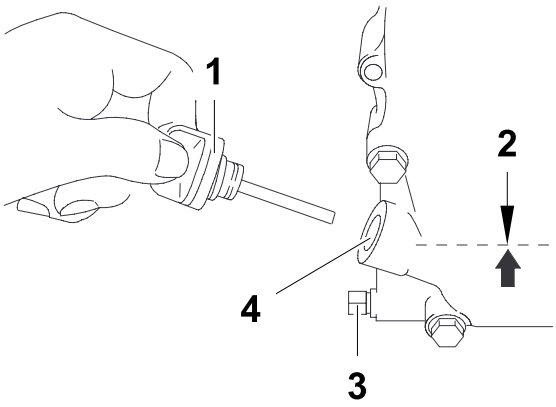
11.2.3 Checking the engine oil level



Item	Designation	Item	Designation
1	Oil level dipstick	3	Oil filler neck
2	Oil level		

1. Switch off the engine.
2. Place the machine upright on a flat surface.
3. Remove any dirt around the oil level dipstick.
4. Remove the oil level dipstick and wipe it with a clean, lint-free cloth.
5. Push the oil level dipstick all the way back in (do not screw it in!) and then remove it again.
6. Check whether the oil is between the lower and upper mark on the dipstick.
7. Using a funnel, pour engine oil into the opening until the upper mark is almost reached on the oil level dipstick.
   See the chapter *Technical data* for the oil specification.
8. Wipe off any spilled oil.

11.2.4 Changing the engine oil



Item	Designation	Item	Designation
1	Oil level dipstick	3	Oil drain plug
2	Oil level	4	Oil filler neck

Note: Change oil when the engine is lukewarm so that the oil can completely run out.

Performing preparations

1. Place the machine upright on a flat surface.
2. Lay out impermeable sheet over the workspace to protect the ground from the oil.

Changing the engine oil

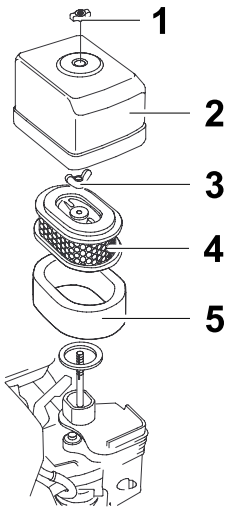
1. Place the collection container under the oil drain plug.
2. Unscrew the oil level dipstick.
3. Unscrew the oil drain plug.
4. Once the oil has drained completely, screw in oil drain plug complete with a new seal and tighten.
5. Using a funnel, pour engine oil into the opening until the upper mark is almost reached on the oil level dipstick.

See the Technical Data chapter for oil quantity and oil specification.

6. Let the engine run for a short while.
7. Switch off the engine.
8. Check oil level and fill oil if necessary.

Note: Dispose of the oil in accordance with the applicable environmental regulations.

11.2.5 Cleaning/changing the air cleaner



Item	Designation	Item	Designation
1	Wing nut	4	Paper filter
2	Air cleaner cap	5	Foam air cleaner
3	Wing nut		

1. Remove any dirt around the air cleaner cap.
2. Unscrew and remove the air cleaner cap.
3. Remove air cleaner.
4. Clean the foam air cleaner in a soapy lather and then rinse it in clean water.
5. Allow the foam air cleaner to dry.
6. Immerse the foam air cleaner in clean engine oil and squeeze out any excess oil.
7. Tap out the paper filter and blow out from inside to outside with compressed air.

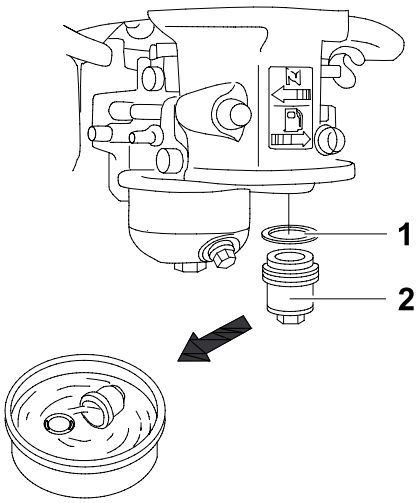
   Note: When tapping, make sure that the air cleaner cartridge is not damaged.

If the dust can no longer be removed, change the paper filter.

8. Attach the foam air cleaner to the paper filter.
9. Insert the foam air cleaner and paper filter and screw them tight.
10. Position the air cleaner cap and tighten it.

11.2.6 Cleaning the filter cup

WARNING
Danger of fire and explosions by fuel and fuel vapors.
- ▶ Do not smoke.
- ▶ Do not refuel near open flames.
- ▶ Turn off the engine before refueling and allow it to cool down.



Item	Designation
1	Gasket
2	Filter cup

1. Turn off the engine and allow it to cool down.
2. Close the fuel tap.
3. Unscrew filter cup complete with sealing ring and remove.
4. Clean filter cup and sealing ring using a non-flammable solvent.
5. Attach the filter cup together with the sealing ring and tighten.
6. Open the fuel tap.
7. Check that the filter cup is leak-proof.

11.2.7 Checking/cleaning/replacing the spark plug

CAUTION
Touching a hot spark plug can cause burns.
► Only remove the spark plug when the engine has cooled down.

Performing preparations

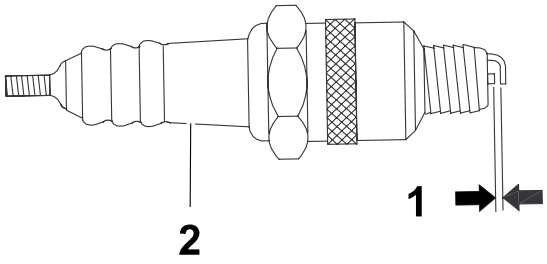
1. Turn off the engine and allow it to cool down.
2. Let the machine cool off.

Removing the spark plug

1. Pull off the spark plug cap from the spark plug.

   Note: Do not pull the spark plug cap off the spark plug by the ignition cable.
2. Loosen the spark plug with a combination wrench.
3. Unscrew the spark plug manually.

Checking/cleaning the spark plug



Item	Designation
1	Spark plug air gap
2	Isolator

1. Check the isolator – if damaged, replace the spark plug.
2. Clean the electrodes with a wire brush.
3. Measure the spark plug gap with a feeler gauge – if necessary, correct it by bending the lateral electrode.

   See chapter *Technical data* for the spark plug gap.
4. Check the spark plug gasket – if damaged, replace the spark plug.

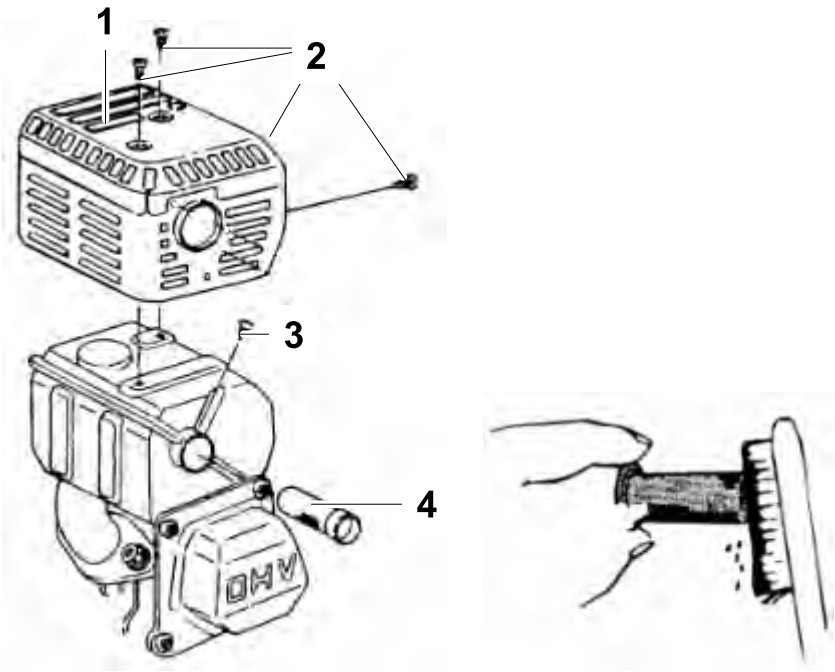
Installing the spark plug

NOTICE
A spark plug that is too loose or too tight can damage the engine.
- ▶ Tighten the spark plugs with the specified torque.

1. First screw in the spark plug manually then tighten it with a combination wrench.
2. Place the spark plug cap onto the spark plug.

11.2.8 Cleaning/replacing the spark arrestor

WARNING
Touching hot engine parts can cause burns.
▶ Let engine cool off.

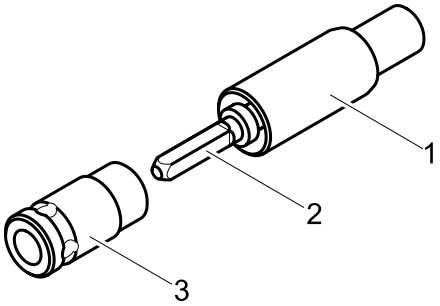


Item	Designation	Item	Designation
1	Burn protector	3	Screw
2	Screw (4 pieces)	4	Spark arrestor

1. Turn off the engine and allow it to cool down.
2. Unscrew and remove the burn protector.
3. Unscrew and remove the spark arrestor.
4. Remove combustion residue from the spark arrestor using a wire brush.
   Note: Replace the spark arrestor immediately if it is damaged (cracks, holes).
5. Attach and tighten the spark arrestor.
6. Attach the burn guard and tighten it.

11.2.9 Flexible shaft

Removing the shaft core

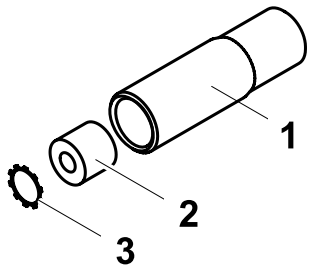


Item	Designation	Item	Designation
1	Flexible shaft	3	Coupling
2	Shaft core		

1. Remove any dirt around the coupling.
2. Clamp flexible shaft in a vice with prism jaws.
3. Unscrew coupling with large pipe wrench or special wrench (accessory).
4. Remove the shaft core completely from the protective hose.
5. Wipe off the shaft core with a clean, lint-free cloth.

   Note: Do not clean the shaft core or the protective hose with solvent!
6. Clean the thread of the coupling and the flexible shaft with a wire brush and cleaning agent.

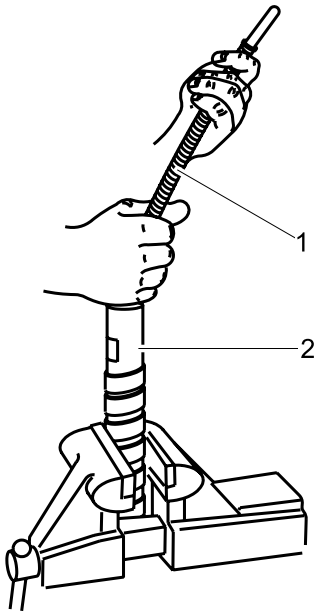
Replacing the plastic bushing



Item	Designation	Item	Designation
1	Flexible shaft	3	Retaining clip
2	Plastic bushing		

1. Remove retaining clip with a screwdriver.
2. Pull out plastic bushing with a pulling tool if necessary.
3. Wipe off bearing surface with a clean, lint-free cloth.
4. Push in a new plastic bushing.
5. Place the retaining clip on with the concave side to the inside, until all the teeth engage in the groove.

Lubricating the shaft core



Item	Designation
1	Shaft core
2	Protective hose

Note: If the flexible shaft is damaged or has grooves, the flexible shaft must be replaced.

- ▶ Lubricate the shaft core thinly and uniformly with special lubricant (accessories) using your hands.

Assembling the flexible shaft

1. Insert the shaft core completely in the protective hose while turning. Turning the shaft core lubricates the special lubricant.
2. Guide the shaft core in the shaft core adapter of the vibrator head.
3. Place pipe thread seal (accessory) on the thread of the coupling.
4. Screw the coupling onto the flexible shaft and tighten with large pipe wrench or special wrench (accessory).
5. Check the shaft core for free movement, while turning with the special wrench (accessory).

Note: If the shaft core is new, the drive must run approx. 5 minutes with the flexible shaft connected (if necessary with the vibrator head as well).

11.2.10 Vibrator head

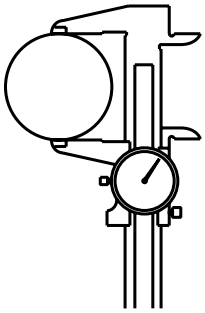
Checking the wear dimensions of the vibrator head

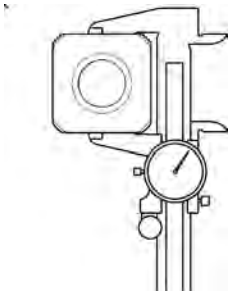
Wear dimensions:

- Vibrator head minimum diameter (H vibrator head).
- Minimum width across flats (HA vibrator head).

Wear is highest at the end of the vibrator head.

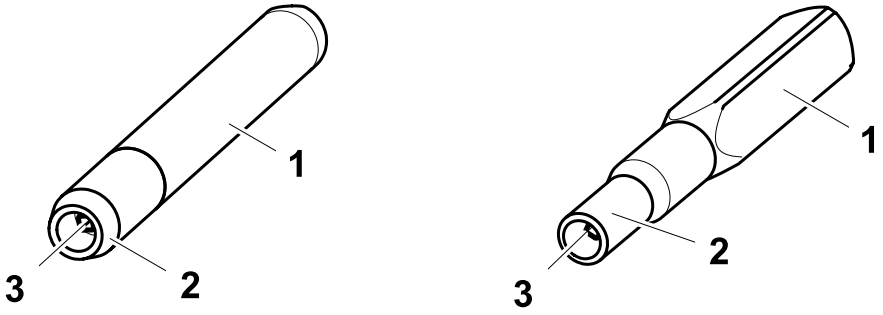
Let the lower tube be exchanged by your Wacker Neuson contact if the wear dimensions are reached at a certain point.





Vibrator head	Wear dimension [mm] (in)	Original dimension [mm] (in)
H 25, H 25S	24.0 (0.95)	25.0 (0.98)
H 35, H 35S	32.0 (1.26)	35.0 (1.38)
H 45, H 45S	41.0 (1.61)	45.0 (1.77)
H 55	52.0 (2.05)	57.0 (2.24)
H 65	58.0 (2.28)	65.0 (2.56)
H 25HA	25.0 (0.98)	26.2 (1.03)
H 35HA	32.0 (1.26)	36.0 (1.42)
H 45HA	39.0 (1.54)	45.0 (1.77)
H 50HA	46.0 (1.81)	50.0 (1.97)

Changing the oil in the vibrator head



Item	Designation	Item	Designation
1	Housing	3	Shaft core adapter
2	Connecting piece		

Opening the vibrator head

1. Remove any dirt around the connecting piece.
2. Clamp flexible shaft in a vice with prism jaws.
3. Unscrew the vibrator head from the flexible shaft with a large pipe wrench (Caution! Left-hand thread).
4. Clean the thread of the vibrator head and the flexible shaft with a wire brush and cleaning agent.
5. Clamp the vibrator head in the area of the connecting piece.
6. Unscrew the housing from the connecting piece with a large pipe wrench.

Changing the oil

1. Pour out oil and dispose of environmentally friendly.
2. Clean the threads of the connecting piece and the vibrator head with a wire brush and cleaning agent.
3. Fill oil in the housing according to specification and in the correct amount, see chapter *Technical Data*.

Assembling the vibrator head

1. Place pipe thread seal on the thread of the housing.
2. Screw the housing on the connecting piece and tighten with a large pipe wrench.
3. Place pipe thread seal on the thread of the flexible shaft.
4. Place the vibrator head with the thread on the flexible shaft, while guiding the shaft core into the shaft core adapter of the vibrator head.
5. Screw the vibrator head on the flexible shaft (Caution! Left-hand thread) and tighten with large pipe wrench.
6. Let pipe thread seal cure for 24 hours.

12 Troubleshooting

Potential faults, their causes and remedies can be found in the following table.

Notify your Wacker Neuson representative in case of malfunctions you cannot or may not remedy yourself.

Malfunction	Cause	Remedy
Engine does not start.	Fuel tap is closed.	Open the fuel tap.
	Fuel tank is empty.	Top up with fuel.
	Fuel line is clogged.	Have the fuel line cleaned. *
	Fuel filter is clogged.	Have the fuel filter replaced. *
	Carburetor is clogged.	Have the carburetor cleaned. *
	Air cleaner is clogged.	Clean air cleaner.
	Spark plug cap is defective.	Have the machine repaired. *
	Spark plug is defective.	Replace spark plug.
	Spark plug is loose.	Tighten spark plug.
	Spark plug gap is set incorrectly.	Have spark plug gap set. *
	ON/OFF switch defective.	Have the machine repaired. *
Engine shuts off right after starting.	Fuel tank is empty.	Top up with fuel.
	Fuel filter is clogged.	Have the fuel filter replaced. *
	Air cleaner is dirty.	Clean or replace air cleaner.
Engine has low performance.	Air cleaner is dirty.	Clean or replace air cleaner.
Recoil starter defective.	Starter rope jammed.	Have the starter rope replaced. *
	Starter rope torn off.	
Engine cannot be turned off.	ON/OFF switch defective.	Have the machine repaired. *
Engine runs normally, but overheats.	Too much special lubricant in the flexible shaft.	Remove excess special lubricant with a cloth.
	Too much oil in the vibrator head.	Remove excess oil.

Malfunction	Cause	Remedy
Engine runs slow and overheats.	Incorrect combination of vibration head and flexible shaft.	Only use combination according to the table, see chapter *Technical Data*.
	Shaft core of the flexible shaft is not sufficiently lubricated.	Lubricate shaft core.
	Vibrator head bearing or drive bearing is worn.	Have machine parts replaced. *

* Have these tasks carried out by the service department of your Wacker Neuson representative.

13 Accessories

There is a wide range of accessories available for the machine.

For more information on the individual accessories, visit the following website: www.wackerneuson.com.

13.1 Special wrench for flexible shaft

The flexible shaft coupling can be removed easier with the special wrench.

13.2 Pipe thread seal

The pipe thread seal is needed for sealing the thread connection between the vibrator head and the flexible shaft, as well as between coupling and flexible shaft.

13.3 Special lubricant for flexible shafts

The Wacker Neuson special lubricant is needed for lubricating flexible shaft cores in the flexible shafts.

13.4 SS-adapter

The SS-adapter is used to connect two S-flexible shafts.

NOTICE
Engine overload.
Flexible shafts which are too long can overload the engine.
▶ Keep a total length of 9 m.

Various lengths of flexible shafts is found in the *Technical Data* chapter.

13.5 Slide dish

If you frequently change position when working, the slide dish will make it easy to pull the drive along.

14 Technical data

14.1 Drive

Designation	Unit	A5000/160 ISO	A5000/160 ANSI
Material number machine		5000610325	5000610340
Length	mm (in)	567 (22,3)	567
Width	mm (in)	421 (16,6)	421
Height	mm (in)	387 (15,2)	387
Weight	kg (lb)	23,7 (57,5)	23,7
Rated speed	rpm	10.300	10.300
Rated power	kW	1,3	1,3
Storage temperature range	°C (°F)	-0 – +40 (32 – +104)	-0 – +40 (32 – +104)
Operating temperature range	°C (°F)	-0 – +35 (-32 – +95)	-0 – +35 (-32 – +95)
Sound pressure level L_{pA*}	dB(A)	91	91
Standard		EN ISO 3744	EN ISO 3744
Sound power level L_{wa} Measured	dB(A)	99	99
Standard		EN ISO 3744	EN ISO 3744
Vibration total value a_{hv} **	m/s^2 (ft/s^2)	6,0 (19.7)	6,0 (19.7)
Standard		EN ISO 5349	EN ISO 5349
Uncertainty of measurement of vibration total value a_{hv}	m/s^2 (ft/s^2)	1,0 (3.28)	1,0 (3.28)
* These measurements were obtained when the device was operated freely suspended in the air at a distance of 1 meter.			
** Measured at a distance of 2 m (6.6 ft) from the lower tube, freely suspended in the air, at nominal speed.			

Drive engine

Designation	Unit	
Manufacturer		Honda
Material number engine		5100045995
Enginetype		GX 160
Combustion method		4-cycle
Cooling		Air cooling
Cylinder		1
Engine displacement	cm^3 (in^3)	163 (10)
Max. tilt position	°	20
Fuel type		Gasoline
Fuel consumption	l/h (gal/h)	0,8 (0.21)
Tank capacity	l (gal)	3.6 (0.9)
Oil specification		SAE 10W-30
Max. oil filling	l (gal)	0,6 (0.16)
Max. performance	kW	3,6
Speed	rpm	3,600
Standard		SAE J1349
Exhaust emissions stage		EU Stufe V, US Phase 3
CO_2 Emission*	g/kWh	757
Exhaust aftertreatment system		-
Spark plug		NGK BP-6 ES
Spark plug air gap	mm (in)	0.7 - 0.8 (0.028 - 0.031)
* Determined value of CO_2 emission during engine certification without consideration of the application on the machine.		

14.2 Flexible shafts

S-flexible shafts

Designation	Unit	SM0-S	SM1-S	SM2-S	SM3-S
Length	m (ft)	0.5 (1.6)	1.0 (3.3)	2.0 (6.6)	3.0 (9.8)
Weight	kg (lb)	1.3 (2.9)	2.7 (6.0)	4.3 (9.5)	5.9 (13.0)

Designation	Unit	SM4-S	SM5-S	SM7-S	SM9-S
Length	m (ft)	4.0 (13.1)	5.0 (16.4)	7.0 (23.0)	9.0 (29.5)
Weight	kg (lb)	7.1 (15.7)	9.3 (20.5)	12.9 (28.4)	15.1 (33.3)

E-flexible shafts

Designation	Unit	SM1-E	SM2-E	SM4-E
Length	m (ft)	1.0 (3.3)	2.0 (6.6)	4.0 (13.1)
Weight	kg (lb)	1.5 (3.3)	2.5 (5.5)	4.3 (9.5)

14.3 Vibrator head

Standard vibrator head

Designation	Unit	H25	H25S	H35	H35S
Diameter	mm (in)	25 (1.0)	25 (1.0)	35 (1.4)	35 (1.4)
Length	mm (in)	440 (17.3)	295 (11.6)	410 (16.1)	310 (12.2)
Weight	kg (lb)	1.3 (2.9)	0.8 (1.8)	2.1 (4.6)	1.6 (3.5)
Oil quantity	ml (oz)	10 (0.3)	10 (0.3)	15 (0.5)	15 (0.5)
Oil specification		SAE 0W-30 (API SF or superior)			

Designation	Unit	H45	H45S	H55	H65
Diameter	mm (in)	45 (1.8)	45 (1.8)	57 (2.2)	65 (2.6)
Length	mm (in)	385 (15.2)	305 (12.0)	410 (16.1)	385 (15.2)

Designation	Unit	H45	H45S	H55	H65
Weight	kg (lb)	3.4 (7.5)	2.8 (6.2)	5.4 (11.9)	6.8 (15.0)
Oil quantity	ml (oz)	22 (0.7)	19 (0.6)	30 (1.0)	44 (1.5)
Oil specification		SAE 0W-30 (API SF or superior)			

HA vibrator head

Designation	Unit	H 25HA	H 35HA	H 45HA	H 50HA
Width across flats	mm (in)	26 (1.0)	36 (1.4)	45 (1.8)	50 (2.0)
Length	mm (in)	380 (15.0)	405 (16.0)	390 (15.4)	395 (15.6)
Weight	kg (lb)	1.3 (2.9)	2.3 (5.1)	3.3 (7.3)	3.9 (8.6)
Oil quantity	ml (oz)	10 (0.3)	20 (0.7)	30 (1.0)	50 (1.7)
Oil specification		SAE 0W-30 (API SF or superior)			

14.4 Allowable Drive – Flexible Shaft – Vibrator Head combinations

NOTICE
A vibrator head which is too large or flexible shaft which is too long overloads the drive.
Excessive wear and damage of the components is possible.
▶ Only use allowable combinations of components.

Vibrator head	Drive	Flexible shafts		
		SM1-E	SM2-E	SM4-E
H 25	A 1500	+	+	+
	A 5000	+	+	+
	L 5000	+	+	+
H 25S	A 1500	+	+	+
	A 5000	+	+	+
	L 5000	+	+	+
H 25HA	A 1500	+	+	+
	A 5000	+	+	+
	L 5000	+	+	+

Explanation:

+ This combination is allowed.
— This combination is not allowed.

Vibrator head	Drive	Flexible shafts							
		SM0-S	SM1-S	SM2-S	SM3-S	SM4-S	SM5-S	SM7-S	SM9-S
H 35	A 1500	+	+	+	+	+	+	+	+
	A 5000	+	+	+	+	+	+	+	+
	L 5000	+	+	+	+	+	+	+	+
H 35S	A 1500	+	+	+	+	+	+	+	+
	A 5000	+	+	+	+	+	+	+	+
	L 5000	+	+	+	+	+	+	+	+

Vibrator head	Drive	Flexible shafts							
		SM0-S	SM1-S	SM2-S	SM3-S	SM4-S	SM5-S	SM7-S	SM9-S
H 35HA	A 1500	+	+	+	+	+	+	+	+
	A 5000	+	+	+	+	+	+	+	+
	L 5000	+	+	+	+	+	+	+	+
H 45	A 1500	+	+	+	+	+	+	+	+
	A 5000	+	+	+	+	+	+	+	+
	L 5000	+	+	+	+	+	+	+	+
H 45S	A 1500	+	+	+	+	+	+	+	+
	A 5000	+	+	+	+	+	+	+	+
	L 5000	+	+	+	+	+	+	+	+
H 45HA	A 1500	+	+	+	+	+	+	+	+
	A 5000	+	+	+	+	+	+	+	+
	L 5000	+	+	+	+	+	+	+	+
H 50HA	A 1500	+	+	+	+	+	+	+	+
	A 5000	+	+	+	+	+	+	+	+
	L 5000	+	+	+	+	+	+	+	+
H 55	A 1500	+	+	+	+	+	+	+	+
	A 5000	+	+	+	+	+	+	+	+
	L 5000	+	+	+	+	+	+	+	+
H 65	A 1500	—	—	—	—	—	—	—	—
	A 5000	+	+	+	+	+	+	+	+
	L 5000	+	+	+	+	+	+	+	+

15 Emission control systems information and warranty

The Emission Control Warranty and associated information is valid only for the U.S.A., its territories, and Canada.

Emission control systems warranty statement

See the *engine owner's manual* for the applicable exhaust and evaporative emission warranty statement.

16 Glossary

16.1 Use of oxygenated fuels

Some conventional gasolines are blended with alcohol. These gasolines are collectively referred to as oxygenated fuels. If you use an oxygenated fuel, be sure it is unleaded and meets the minimum octane rating requirement.

Before using an oxygenated fuel, confirm the fuel's contents. Some states / Provinces require this information to be posted on the fuel pump.

The following are Wacker Neuson approved percentages of oxygenates:

Ethanol - (ethyl or grain alcohol) 10% by volume. You may use gasoline containing up to 10% ethanol by volume (commonly referred to as E10). Gasoline containing more than 10% ethanol (such as E15, E20, or E85) may not be used because it could damage the engine.

If you notice any undesirable operating symptoms, try another service station, or switch to another brand of gasoline.

Fuel system damage or performance problems resulting from the use of an oxygenated fuel containing more than the percentages of oxygenates mentioned above are not covered under warranty.

EC Declaration of Conformity

Manufacturer

Wacker Neuson Produktion GmbH & Co. KG, Wackerstraße 6, D-85084 Reichertshofen
This declaration of conformity is issued under the sole responsibility of the manufacturer.

Product	**A5000**
Product type	Internal vibrator
Function of product	Compacting of concrete
Material number	5000610325, 5000610340

Guidelines and standards

We hereby declare that this product complies with the relevant provisions and requirements of the following directives and standards:

2006/42/EC, 2014/30/EU, EN 55012:2007 + A1:2009, EN 12649:2008 + A1:2011

Person responsible for technical documents

Wacker Neuson Produktion GmbH & Co. KG, Wackerstraße 6, D-85084 Reichertshofen

Reichertshofen, 17.09.2019

Helmut Bauer
Managing Director

Original Declaration of Conformity