Operator's manual

Floor saw

BFS

735, 940, 1345, 1350

Model	BFS
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Manufacturer

Wacker Neuson Machinery (China) Co., Ltd.
No. 1688 Xinkai Road,

Pinghu Economic Development Zone,

Pinghu City,
Zhejiang Province,

P.R. China

Original operator's manual

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 Using the manual

This manual is to be considered part of the machine and should be carefully stored during the entire service life of the machine. This manual shall be transferred to subsequent owners or users of the machine.

2.2 Storage location of the manual

This manual is part of the machine and must be kept in the immediate vicinity of the machine and made accessible to staff at all times.

If this manual is lost, or if a second copy is required, there are two options to obtain a replacement:

- Download from the Internet www.wackerneuson.com
- Contact your Wacker Neuson contact partner.

2.3 Accident prevention regulations

In addition to the notes and safety instructions in this manual, the local accident prevention regulations as well as the national health and safety regulations apply.

2.4 More information

This manual applies to various machine types from one product series. For this reason, some figures may vary slightly in appearance from the machine purchased. Depending on the model, there may be descriptions of components that are not included in the standard package.

The information contained in this manual is based on machines manufactured up to the time of printing. Wacker Neuson reserves the right to change this information.

The manufacturer shall immediately include any modifications or additions in this manual.

2.5 Target group

Individuals working with this machine must be regularly trained on the dangers of handling the machine.

This operator's manual is intended for the following persons:

Operating personnel:

These individuals have been trained on the machine and informed about the possible dangers in the event of improper conduct.

Technically trained personnel:

These people have professional training as well as additional knowledge and experience. They are able to assess the tasks assigned to them and recognize possible dangers.

2.6 Explanation of symbols

This manual contains specially emphasized safety instructions in the following categories: **DANGER, WARNING, CAUTION** and **NOTICE.**

Before performing any work on or with this machine, the notes and safety instructions must be read and understood. All notes and safety instructions in this manual must be passed on to the maintenance, repair, and transport personnel.

DANGER

This combination of symbol and signal word indicates a hazardous situation that will lead to death or serious injury if it is not avoided.

WARNING

This combination of symbol and signal word indicates a hazardous situation that can lead to death or serious injury if it is not avoided.

CAUTION

This combination of symbol and signal word indicates a hazardous situation that can lead to minor injury or damage to the machine if it is not avoided.

NOTICE

Supplementary information.

2.7 Wacker Neuson Contact partner

Depending on the country, the Wacker Neuson contact partner is a Wacker Neuson service department, a Wacker Neuson affiliate, or a Wacker Neuson dealer.

On the Internet at www.wackerneuson.com.

The manufacturer's address can be found at the beginning of this manual.

2.8 Disclaimer

For the following violations, Wacker Neuson dismisses any liability for personal injury or material damage:

- Failure to follow this manual.
- Unintended use.
- Deployment of untrained personnel.
- Using non-approved spare parts and accessories.
- Improper handling.
- Structural modifications of any kind.
- Failure to observe the "General Terms and Conditions" (GT&Cs).

2.9 Product identification of the machine

Data of the nameplate

The nameplate contains information that uniquely identifies this machine. This information is required for ordering spare parts and when inquiring about technical issues.

- Enter information about the machine in the following table:

Designation	Your information
Group and model	
Year of manufacture	
Serial number	
Version no.	
Item number	

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.

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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 must only be used for the following purposes:

- Cutting expansion joints in concrete, asphalt and screed.
- Cutting out damaged areas of concrete and asphalt.
- Straightening blacktops and concrete surfaces.
- Sawing off precast concrete parts.

The machine may only be used with cutting blades that are intended for use with the machine and the material to be cut.

The machine may not be used for the following purposes:

- Cutting wood.
- Cutting plastics.
- Cutting materials that contain asbestos.

The machine may not be operated with blades, knives, brushes, etc.

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.

Spare parts or accessories from Wacker Neuson can be safely assembled or mounted. On the Internet at www.wackerneuson.com

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 at least 18 years of age.
- 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.
- Face protection.
- Eye protection.
- Breathing protection in the case of dusty ambient air.

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.

Breathing protection

If a lot of dust is produced when cutting, always wear suitable breathing protection.

Use the water supply.

Provision of fire extinguishers

Ensure that a fire extinguisher is always to hand on the worksite.

Do not exceed the daily usage limit

The machine generates noise.

Observe the regulations which apply in your country and guidelines concerning the maximum daily service life of the machine.

Always wear the prescribed safety clothing.

Information about the noise levels produced by the machine can be found in the *Technical Data* chapter.

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 emptying the fuel tank before transport. 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.
- Check the lifting strap on the machine for wear and damage.
- Before lifting, secure (loose) components with the relevant devices.
- Remove (loose) components before lifting.
- Remove the tool before lifting.

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.

Transporting the machine

Secure the machine on the transport device against tilting, falling or slipping.

Only use the lashing points listed in the operating instructions.

Also observe the country-specific regulations, standards and guidelines.

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.

Safety in the work area

When working with the machine especially pay attention to the following points:

- Electric lines or pipes in work area.
- Gas lines or water lines in the work area.
- Material becoming separated, dropping down or ejected. Make sure that you do not put other persons in danger.
- Pay maximum attention in the vicinity of drops or slopes. Risk of falling.
- Maintain a sufficient distance from flammable materials.

Checks before starting work

Check the following points before beginning work:

- Condition of cutting blade.
- Safety devices.
- Switch and current-carrying lines for damage and corrosion.
- Tightness of the cutting blade.
- Machine settings.
- Vibration damper for wear, cracks and misalignment.

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 ensure that the machine is vertically stable and cannot tip over, roll or slide away.

Proper operator position

Do not leave the proper operator position while operating the machine.

The intended operator position is at the controls behind the machine.

Caution with hot parts

Do not touch the machine during or shortly after operation. Some parts can become very hot and can cause severe burns.

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.

Caution with toxic materials

Some materials may contain toxic chemicals which are released during demolition. Therefore personal protective equipment must be worn to prevent inhalation of and skin contact with work dust.

No persons endangered

Be sure that no persons are endangered by flying or falling materials. Always work very attentively, and anticipate potential hazards.

Make sure that people in the vicinity are at a sufficient distance from the machine.

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.

Switching off the machine

Switch off the engine in the following situations:

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

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

Storage

Store the machine securely so that it cannot tilt, fall 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.

You may only change the idle speed. The idle speed must be set such that the cutting blade does not rotate while the engine is idling.

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.

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 Safety during floor saw operation

Belt guard

Never operate the machine without a belt guard!

Exposed belts and belt pulleys are dangerous and can cause serious injuries if they pull in any part of your body or if parts are ejected.

Danger of falling over

Operate the machine so that it cannot tip over or fall down from bordered areas, edges and steps.

Cutting blade guard

Never operate the machine without a cutting blade guard.

The cutting blade guard performs the following functions:

- Protects the operator from the rotating cutting blade.
- Diverts workpiece particles and sparks or chips from a damaged cutting blade away from the operator.

Only operate the machine when the cutting blade guard is folded down.

Make sure that the cutting blade guard and its limit stops are not damaged or worn.

Wet-cutting

Use a water sprayer when dust formation is excessive, e.g. when cutting concrete or stone.

Only use cutting blades that are suitable for wet cutting.

Before ending the wet cutting process, allow the cutting blade to run without the water sprayer until it is dry.

Not exceeding the maximum tilt position

- Do not exceed the maximum tilt position (see the description in the Maximum permissible tilt chapter).
- 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.

Notes regarding work methods

- Fold down the protective hood fully. The protective hood can catch material flung away from the work area and divert it away from the operator.
- Particularly when starting the engine you have to make sure that the cutting blade does not come into contact with anything.
- Always operate the machine at full throttle even when first placing it into the cut.
- When first placing the the cutting blade into the cut, set it slowly onto the material. Excessive pressure can damage the cutting blade.
- Move the machine in a straight line together with the cutting blade. Pressure from the side can damage the cutting blade.
- Avoid cutting tight curves.
- On sloping carriageways and surfaces, pressure must not be applied to the side of the blade.
- Never exceed the maximum speed (printed on cutting blade).

Removing foreign objects before cutting

Before cutting, remove foreign objects such as nails, etc. from the cutting area.

Cutting various materials

- Do not process loose materials (e.g. paving stones).
- Do not cut into the gravel area using diamond-edged cutting blades.
- When cutting on the edge of the track or when cutting two different materials (cutting in the joint area), uneven wear is possible.

Do not touch a rotating cutting blade

Never touch a rotating cutting blade with your hand or any other body part.

Danger of severe injury.

Pay attention and exercise caution when working with ear protection

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

Danger of fire due to sparks

Danger of fire due to hot workpiece particles flung away from the work area.

- Do not work near flammable materials.
- Only wear clothing made of material that is not easily flammable.

Notes regarding cutting blades

- The cutting blade must be suitable for use with the cut-off saw.
- The cutting blade must be suitable for the material to be cut.
- The speed allowed for the cutting blade must be the same as or higher than the maximum machine spindle speed.
- Mount the cutting blade such that its rotation direction is the same as that of the machine.
- Only use cutting blades with permissible cutting blade diameters.
- When using cutting blades with a hole diameter greater than the machine shaft, use the suitable adapter ring.
- Only use undamaged cutting blades.
- Ensure that you also follow the instructions of the cutting blade manufacturer.
- Do not use cutting blades that have fallen.
- Change the cutting blade only when the engine has been turned off.
- Always tighten the cutting blade with the specified torque.
- Test the new cutting blade for approx. 1 min at maximum speed (without cutting).
- Only use cutting blades with use-by dates that have not expired.
- When storing cutting blades, always lay them flat in an area that is protected from frost.

3.8 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*.

It is not permitted to tilt the machine for maintenance work.

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.

Checking the ignition system

Caution: the electronic ignition generates a very high voltage.

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.

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.

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.

3.9 Safety devices

WARNING
Danger of injury due to open moving parts.
- ▶ Only operate the machine with properly installed and functioning safety devices.
- ▶ Do not modify or remove safety devices.

Pos.	Description
1	Cutting blade guard

Cutting blade guard

Never operate the machine without a cutting blade guard.

The cutting blade guard performs the following functions:

- Protects the operator from the rotating cutting blade.
- Diverts workpiece particles and sparks or chips from a damaged cutting blade away from the operator.

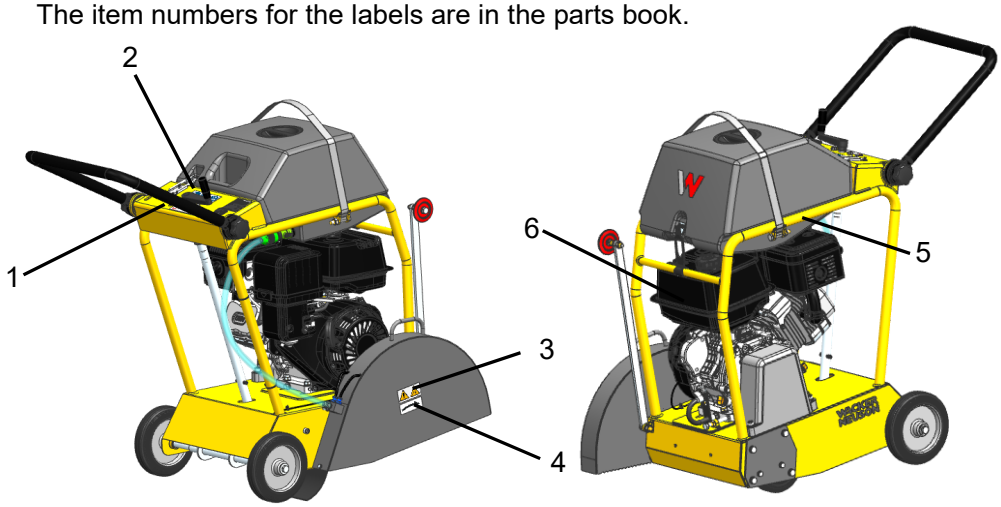
Only operate the machine when the cutting blade guard is folded down.

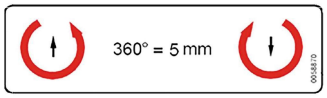
4 Safety and information labels

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		Cutting depth setting.
2		■ Read the operator's manual. ■ Wear a eye protection and ear protection! ■ Machine may not be offset with the cutting blade rotating.
3		Caution, risk of injury
4		Direction of rotation of the unit. Install the cutting disc so that coincide with the direction of rotation and cutting disc.
5		**WARNING** Hot surface
6		DANGER Asphyxiation hazard. ■ Engines emit carbon monoxide. ■ Do not run the machine indoors or in an enclosed area. ■ NEVER use inside a home or garage, EVEN IF doors and windows are open. ■ Only use OUTSIDE and far away from windows, doors, and vents. ■ Read the Operator's Manual. ■ No sparks, flames, or burning objects near the machine. ■ Stop the engine before refueling. ■ Use only clean, filtered diesel fuel.

5 Scope of delivery

The scope of delivery includes:

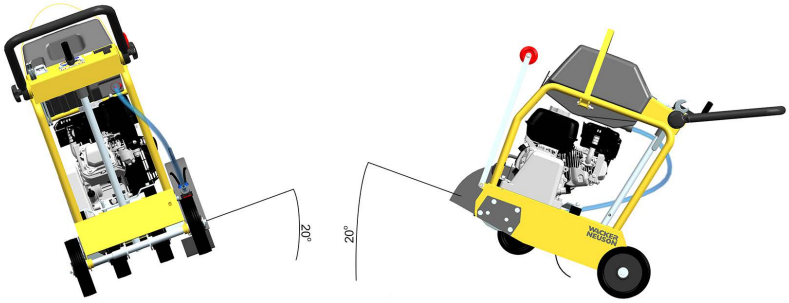
- Floor saw.
- Open end wrench.
- Operator's manual.

6 Description

6.1 Application

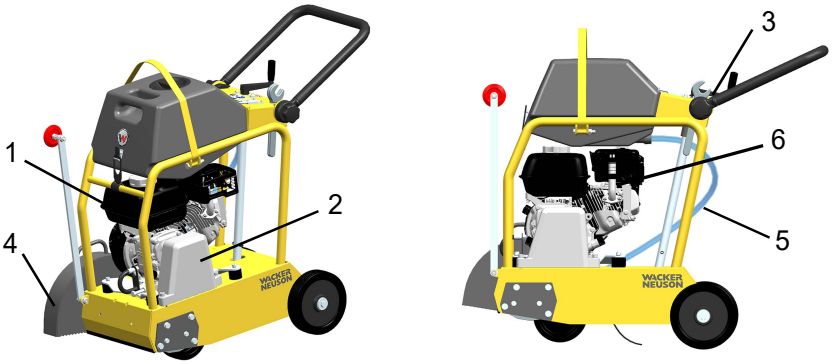
- Cutting expansion joints in concrete and asphalt surfaces.
- Repair work on streets, e.g. cutting out damaged areas in asphalt and concrete.
- Straightening blacktops and concrete surfaces.
- For demolition jobs and refurbishment of old buildings.
- Sawing off precast concrete parts.
- Expansion joints and installation channels in floors.
- Laying induction loops and cables in signal installations.

6.2 Maximum permissible tilt



The maximum permissible tilt applies to the engine level.

6.3 Functional description



Pos.	Description	Pos.	Description
1	Drive motor	4	Cutting blade guard
2	Belt guard	5	Hose
3	Crank handle	6	Gas throttle lever

The floor saw must only be operated in a forward direction.

The drive motor attached to the frame drives the cutting blade via the belt.

The cutting blade can be infinitely adjusted by means of a crank handle, 1 turn corresponds to a cutting depth adjustment of 5 mm.

The cutting blade guard can be swiveled upwards to make it easier to assemble and disassemble the cutting blade.

Furthermore, the cutting blade guard can be connected with the water tank by means of a hose and an adapter.

Wetting the cutting blade with water prevents dust from developing.

The adapter on the water hose allows the connection of an external water supply.

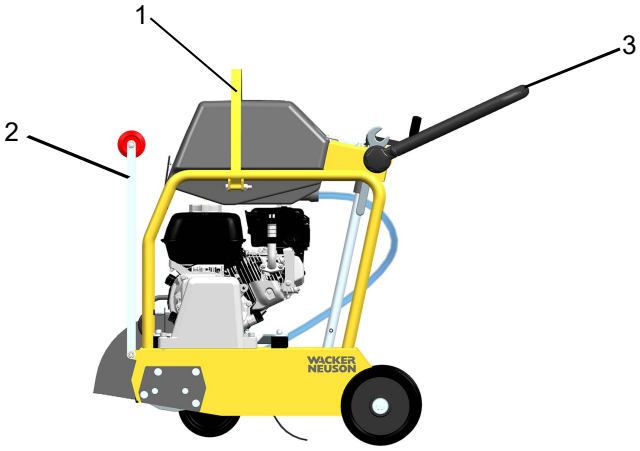
The drive motor speed can be infinitely adjusted by means of the gas throttle lever, whereby the optimum cutting blade speed is reached when the drive motor is operated at full throttle.

To facilitate the starting procedure, the drive motor is equipped with a choke.

6.4 General instructions for use for diamond-edged cutting blades

- Never use a cutting blade with a larger diameter than necessary in order to cut a certain depth.
- If the cutting blade comes to a standstill, remove it from the cut before starting the machine again. If the cutting blade comes to a standstill in the cut, check whether the belt is tightened adequately. Check the tension screw and make sure that it is tightened properly.
- Cut in a straight line. Mark the cutting line clearly in such a way that the operational personnel can follow it easily. This is to ensure that the floor saw machine does not need to be redirected from one side to the other (avoid cutting tight curves).
- Sufficient drive power is essential! When cutting, work at full throttle.
- Caution on steep tracks and levels! The machine must not exert lateral force against the blade.
- Never exceed the maximum speeds (imprinted on cutting blade)!
- Use a suitable diamond-edged cutting blade for the material to be cut (asphalt, concrete ...). Wacker Neuson offers an extensive range of diamond-edged cutting blades in different qualities.
- Do not cut into the gravel area using diamond-edged cutting blades. When cutting on the edge of the track or when cutting two different materials (cutting in the joint area), uneven wear is possible. Check carefully for irregularities (reinforcements etc.) in the material to be processed. These can overload the cutting blade very quickly. When starting cutting operations, work carefully and with a low down speed.
- Do not process loose materials (e. g. paving stones).

7 Transport to the worksite



Pos.	Description	Pos.	Description
1	Transport strap	3	Stirrup handle
2	Guide wheel		

Requirements:

- When transporting the floor saw, use only suitable hoisting gear with a minimum load-bearing capacity of 150 kg.
- Always turn off the motor during transportation!
- Empty the water tank!
- Remove the cutting blade prior to transport. Set the lowest cutting position on the floor saw.
- Remove the water tank and attach the hoisting gear on the transport strap for lifting.
- If you transport the floor saw on the cargo area of a vehicle, strap it down securely on the special safety bar.
- Fold up the guide wheel and stirrup handle.
- Handles, guide wheel and other operating controls must not be used as attachment points.

Note: Also observe the regulations in the chapter Safety information.

8 Operation

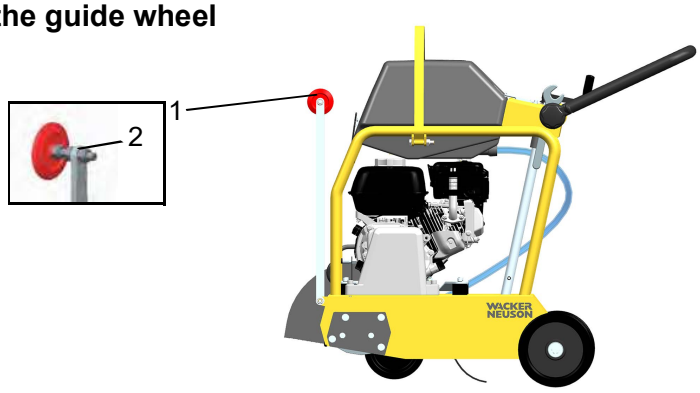
8.1 Adjusting the handle

Pos.	Description
1	Star grip (left/right)

The height of the stirrup handle can be adjusted according to the use and the body height of the operator.

Loosen the star grip on both sides, swivel the handle to the desired position and re-tighten the two star grip.

8.2 Adjusting the guide wheel



Pos.	Description	Pos.	Description
1	Guide wheel	2	Mother

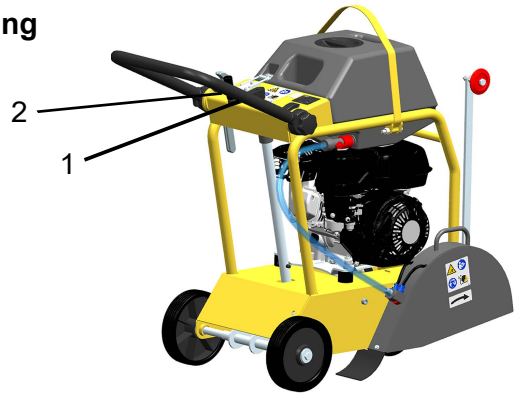
8.2.1 Adjusting the guide wheel

The guide wheel is designed to help the operator in making long, straight cuts. The guide wheel can be exactly adjusted to the cutting blade by loosening the mother.

8.2.2 Aligning the guide wheel

To do this, make a cut of approx. 2 m length on a flat surface and with the minimum cutting depth. Then pull back the machine without lateral force. Then you can align the guide wheel exactly with the cut.

8.3 Cutting depth setting

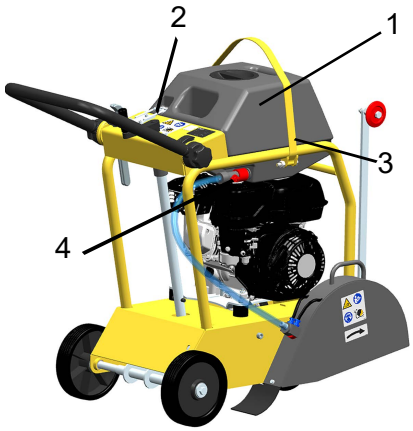


Pos.	Description	Pos.	Description
1	Crank	2	Receptacle

With the crank you can set the cutting depth precisely. One turn changes the cutting depth by exactly 5 mm. Turn the crank in the clockwise direction to increase the cutting depth and turn it in the counterclockwise direction to reduce the cutting depth.

Note: You can also insert the supplied tool into the receptacle near the crank and thus prevent an unintentional change of the cutting depth.

8.4 Water tank



Pos.	Description	Pos.	Description
1	Water tank	3	Strap
2	Retaining clamp	4	Water supply

The floor saw features an integrated, removable water tank.

To fit the water tank, attach the retaining clamp and tighten it with the strap.

To remove the water tank or to attach an external water supply, you can disconnect the hose on two different spots.

The amount of water can be regulated or stopped.

Note: You should remove the water tank if the machine is connected to an external water supply.

8.5 Parking brake

Integrated parking brake

The machine features an integrated parking brake.

The front wheels are automatically blocked in transport position (lowest cutting position without a cutting blade) or if the maximum cutting depth is exceeded.

8.6 Assembling the cutting blade

Pos.	Description
1	Cutting blade guard

Caution

Risk of injury due to sharp cutting blade.
> Only fold up the cutting blade guard using the handle.

8.6.1 Checking a new cutting blade:

- The blade type must be suitable for the material to be cut. Observe the peripheral speed, refer to the "Technical data"!
- The arbor diameter of the cutting blade must precisely fit the shaft to ensure smooth blade running.
- The cutting blade must be undamaged.

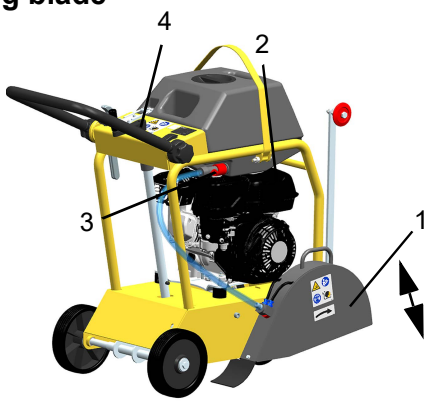
  Observe the correct direction of rotation of the cutting blade! That means the rotational direction mark on the cutting blade must correspond with the rotational direction mark on the cutting blade guard.

8.6.2 Proceed as follows for the assembly of the cutting blade:

1. Fold up the cutting blade guard using the handle.
2. Prior to the assembly of the cutting blade, clean the spring washers and the locking pin and check them for damage.
3. Attach cutting blade and spring washer on the shaft.
4. Tighten the hexagonal bolt firmly. To do this, apply counter pressure on the spanner surfaces of the cutting shaft.
5. Fold down the cutting blade guard.

   Starting the machine is only permitted with a water hose connected and the water supply turned on.

8.7 Disassembling the cutting blade



Pos.	Description	Pos.	Description
1	Cutting blade guard	3	Water supply
2	Engine	4	Crank

Proceed as follows for the disassembly of the cutting blade:

1. Turn off the engine and the water supply.
2. Turn the crank in the counterclockwise direction until the blade is clear of the ground.
3. Fold up the cutting blade guard using the handle.
4. Loosen the hexagonal bolt. To do this, apply counter pressure on the spanner surfaces of the cutting shaft.
5. Remove the spring washer and the cutting blade.
6. Fold down the cutting blade guard.

   Store the spring washer and the hexagonal bolt in a clean place where they cannot become dirty. Assemble both parts for the transport of the machine!

8.8 Checking the motor before starting

8.8.1 Engine oil

Switch off the engine.

Prior to checking the engine oil level or refilling engine oil, make sure that the engine bolting level is aligned horizontally.

- Remove the oil filler cap (oil level indicator).
- If the oil level is below the lower filling mark on the dip stick, add suitable engine oil until the oil reaches the edge of the filler neck.
- An oil change is required if the engine oil is dirty.
- Only use high-quality engine oil, see chapter Technical Data.

The engine is automatically switched off when the oil level falls below a specific level. If this is the case, the engine can only be started after engine oil has been refilled.

8.8.2 Fuel

Do not smoke during refueling and make sure that there are no open flames or sparks in the immediate vicinity.

- Turn off the engine and open the fuel tank cap.
- Only use leadfree fuel.
- Close the fuel tap before the fuel tank is filled with fuel.
- Always use the fuel filter when refilling fuel.
- Wipe off any spilled fuel before starting the engine.

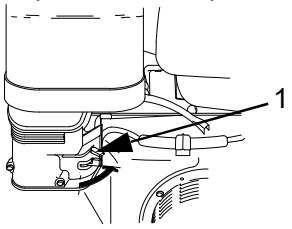
8.8.3 Air cleaner

Check if the air cleaner cartridges and the cyclone housing are clean and in good condition. If needed, clean or replace the cartridges.

8.9 Starting the engine

The cutting blade must not be in contact with the ground.

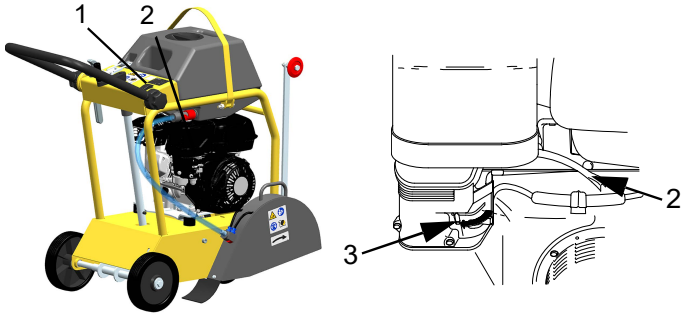
1. Open the fuel tap.



Pos.	Description
1	Fuel tap

2. Set the choke lever to the CLOSE position.

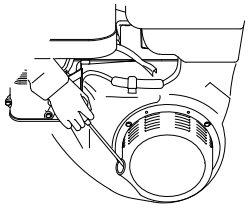
Note: Do not use the choke if the engine is warm or the air temperature is high.



Pos.	Description	Pos.	Description
1	Main switch	3	Choke lever
2	Throttle lever		

3. Push the throttle lever slightly to the front.

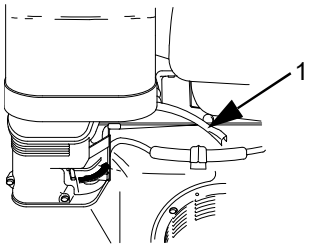
4. Switch the main switch to "I".



5. Pull the starter handle slowly until you feel resistance and then pull the handle fully out with force.

   Note: Caution: Do not suddenly let go of the recoil starter handle but guide it back gently by hand to prevent damage to the starter.

8.10 Operating the engine



Pos.	Description
1	Throttle lever

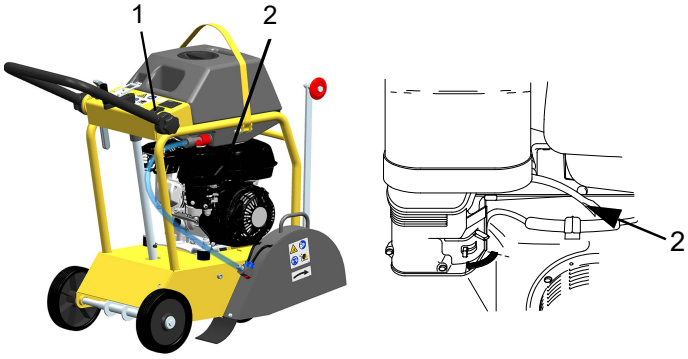
Once the engine has warmed up, gradually slide the choke lever to the OPEN position. Set the desired engine speed via the throttle lever.

Oil level warning system

The oil level warning system is designed to prevent engine damage caused by insufficient oil in the crankcase. Before the oil level can drop below the safe minimum level, the oil level warning system will automatically shut off the engine (the main switch remains in the position "1").

8.11 Turning off the engine

To turn off the engine in the event of an emergency, switch the main switch to "0". Under normal circumstances, proceed as follows:



Pos.	Description	Pos.	Description
1	Main switch	2	Throttle lever

1. Push the throttle lever backwards as far as it goes.
2. Switch the main switch to "0".
3. Close the fuel tap.

9 Maintenance

9.1 Maintenance schedule

Component	Maintenance work	Maintenance interval
Machine	Check for signs of damage and wear – change, if necessary the components.	Before operation
Safety devices		
Main switch	Check for proper functioning – change, if necessary.	
Air cleaner	- Check for external damage and a tight fit. - Check foam and filter element – clean or replace, if necessary.	8 hours (daily)
Fuel	- Check the tank cap for leakage – change, if necessary. - Check the fuel level – add fuel as needed.	
Drive motor	Monitoring of: - Excessive vibrations, operating noise. - Engine oil and fuel leaks.	
Engine oil	Check the oil level – add oil as needed.	
Miscellaneous	- Check the cutting blade for damage and tightness – replace or tighten, if necessary. - Check the direction of rotation arrow of the cutting blade. - Check that the height adjustment moves freely. - Check the water supply. - Inspect the vibration damper for wear, cracks and misalignment.	
Engine oil	Initial oil change.	20 hours
Cutting blade guard	Clean.	50 hours (weekly)
Air cleaner	Clean – change, if necessary.	
Belt	Check tension and wear – change, if necessary.	
Spark plug	Clean, set electrode gap.	100 hours (monthly)
Engine oil	Change.	
Fuel filter	Clean.	
Spark protection	Clean.	100 hours (twice a year)
Filter cup	Clean.	
Idle setting	Check idle setting – set if necessary.	300 hours (annually)
Spark plug	Change.	
Air cleaner	Change.	
Valve clearance	Have this repaired by Wacker Neuson service.	

9.2 Checking engine oil level

- Turn off the engine.
- Align the engine bolting level horizontally.

- Remove any dirt around the oil level dipstick.
- Remove the oil level dipstick and wipe it with a clean, lint-free cloth.
- Screw the oil level dipstick all the way back in and pull it out again.
- Check: The motor oil level must be between the lower and upper marks.
- If necessary, pour new engine oil into the opening until the upper mark is reached on the oil level dipstick (see chapter Technical data for oil type).
- Screw in the oil level dipstick and tighten it by hand.

9.3 Changing the engine oil

The work area should be covered with a waterproof sheet to protect the floor (protection of the environment).

- Align the engine bolting level horizontally.
- Bring the engine to a hand warm temperature, either by letting it cool down or running it until it is warm.
- Turn off the engine.
- Place a sufficiently large container under the oil drain hose to catch the used oil.
- Remove oil drain hose from the holder.
- Remove any dirt around the locking screw.
- Unscrew the cap nut.
- Let the used oil drain out completely.

Avoid spilling oil. Remove any spilled oil immediately.

- Close oil drain hose with cap nut.
- Attach oil drain hose to the holder.
- Pour new engine oil (see chapter Technical data) into the opening of the oil level dipstick until the upper mark is reached on the oil level dipstick (see Checking engine oil level).
- Screw in the oil level dipstick and tighten it by hand.
- Dispose of the used oil in accordance with the applicable regulations.

9.4 Cleaning the air cleaner

A dirty air cleaner obstructs the flow of air to the carburetor. To prevent carburetor malfunctions, clean the air cleaner on a regular basis. Clean the filter more frequently if the engine is operated in an extremely dusty environment.

Warning: Never use gasoline or cleaning solutions with a low flash point to clean the air cleaner cartridge. This could cause a fire or worse an explosion.

Caution: Never run the engine without an air cleaner. This leads to undue engine wear.

1. Remove the wing nuts and the air cleaner cap. Take out the elements and separate them. Check both elements for holes or tears and replace them as needed.
2. Foam element: Wash out the element in warm soap water, rinse it and allow it to completely dry. If necessary, wash out the element in a cleaning solution with high flash point and allow it to dry.
3. Paper element: Tap the element lightly against a hard surface a few times to loosen excess dirt. Never attempt to brush off the dirt, since this will rub the dirt into the fibers. Replace the paper element if it is very dirty.

Cleaning the cyclone housing:

If dirt accumulates in the cyclone housing, unscrew the three special flat head screws and wipe the components or rinse them with water. Then completely dry off the components and assemble them carefully.

Caution:

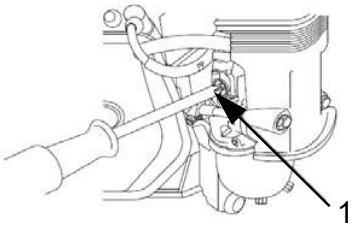
- During the reassembly of the cyclone, make sure that the cloth of the air inlet fits properly into the groove of the preliminary filter cap.
- Install the air horn in the correct direction.

9.5 Cleaning the filter cup

Close the fuel tap. Remove the filter cup with the o-ring and wash it out with non-combustible and low-flammable solvent. Allow it to completely dry, then reinstall it and tighten it firmly. Open the fuel tap and check for leaks.

9.6 Idle setting

- Start the engine and let it warm up to its normal operating temperature.

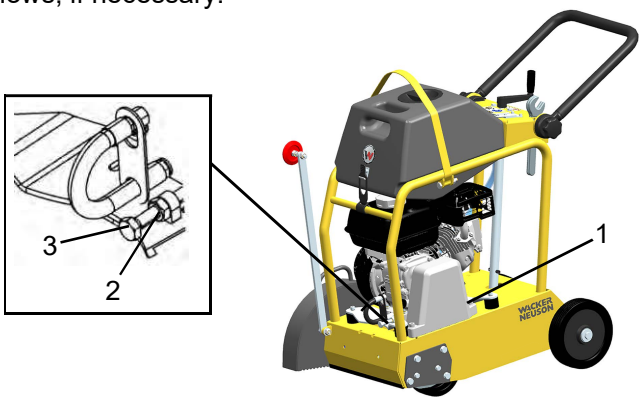


Pos.	Description
1	Idle speed limiting screw

- Adjust the idle speed limiting screw while the engine is running in order to reach the prescribed idle speed.
  Prescribed idle speed: 1,400 ± 150 rpm.

9.7 Tightening the belt

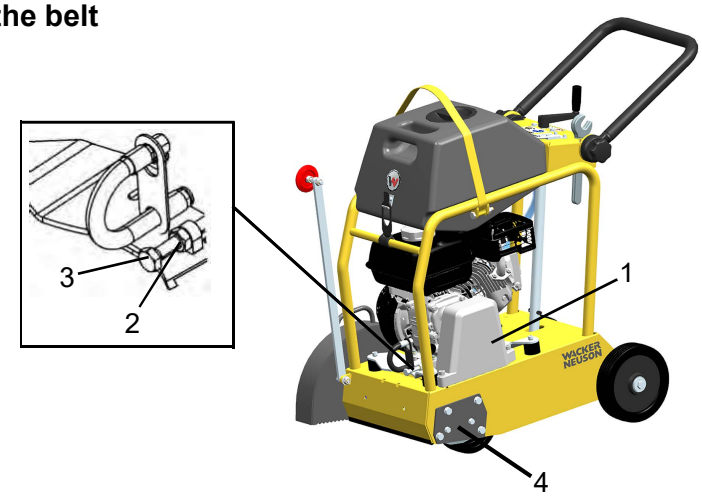
Check the belt in the course of the weekly engine maintenance and retighten it as follows, if necessary:



Pos.	Description	Pos.	Description
1	Belt guard	3	Tension screw
2	Jam nut		

1. Remove the belt guard.
2. Loosen the jam nut.
3. Loosen the four fastening nuts of the engine until the engine can be moved without play.
4. Tighten the belt with the tension screw.
   BFS735: Belt tension 300 N (vibration frequency 119 Hz),
   BFS940/1345/1350: Belt tension 350 N (vibration frequency 98 Hz).
5. If necessary, correct the parallel alignment of the engine.
   As a first step, tighten a fastening nut of the engine and correct the alignment by means of the tension screw.
6. Tighten all fastening nuts of the engine as well as the jam nut.
7. Mount the belt guard.
   Note: The frame is provided with two recesses which can be used to measure the parallel alignment of the engine.

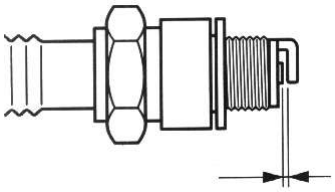
9.8 Changing the belt



Pos.	Description	Pos.	Description
1	Belt guard	3	Tension screw
2	Jam nut	4	Bearing flange

1. Remove the belt guard.
2. Loosen the jam nut.
3. Loosen the four fastening nuts of the engine until the engine can be moved without play.
4. Unscrew the bearing flange (6 screws).
5. Replace the belt.
6. Screw on the bearing flange (6 screws).
7. Tighten the belt with the tension screw.
   BFS735: Belt tension 300 N (vibration frequency 119 Hz),
   BFS940/1345/1350: Belt tension 350 N (vibration frequency 98 Hz).
8. If necessary, correct the parallel alignment of the engine.
   As a first step, tighten a fastening nut of the engine and correct the alignment by means of the tension screw.
9. Tighten all fastening nuts of the engine as well as the jam nut.
10. Mount the belt guard.
    Note: The frame is provided with two recesses which can be used to measure the parallel alignment of the engine.

9.9 Checking the spark plug



- Remove any soot deposits from the electrodes of the spark plug using a spark plug cleaner or a wire brush.
- Check the spark plug gap and set it to, if necessary, see chapter Technical Data.
- Select the correct spark plug, see chapter Technical Data.

10 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.

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 Parking brake

Principle

The parking brake secures the machine against rolling away by clamping a rear wheel with the foot lever.

Proper use

The parking brake may only be used to park the machine on the construction site and for storing the machine.

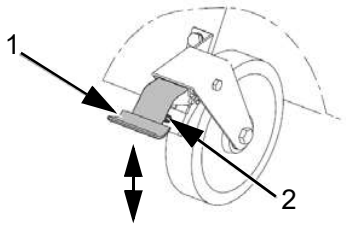
The parking brake must not be used for the following:

- Securing the machine when it is being transported.
- Securing the machine on slopes of more than 10°. The stability of the machine can no longer be guaranteed on slopes over 10°.
- Start the engine with the parking brake engaged so that the cutting blade cannot become wedged in the ground.

Performing preparations

1. Switch off the machine.
2. Park the machine so that it is stable and cannot tip, roll, slide or fall over.

Applying the parking brake



Item	Designation
1	Foot lever
2	Pressure screw

1. Place the machine on a slip-resistant surface that is as flat and even as possible.
2. Press down the foot lever.

Note: Check the tight fit of the parking brake and the setting of the pressure screw at regular intervals. The parking brake must securely block the wheel at least on a 10° slope. Adjust the pressure screw if necessary

Releasing the parking brake

1. Push up the foot lever.

11 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.	The main switch is in the "0" position.	Set the main switch to the "I" position.
	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 replaces. *
	Carburetor is clogged.	Have the carburetor cleaned. *
	Air cleaner is clogged.	Clean or replace air cleaner.
	Spark plug cap is defective.	Have the machine repaired. *
	Spark plug is defective.	Change the spark plug.
	Spark plug is loose.	Tighten the spark plug.
	Spark plug gap is set incorrectly.	Set the spark plug gap.
	Insufficient engine oil.	Top up with engine oil.
Engine shuts off right after starting.	Idle speed is adjusted incorrectly.	Set idle speed.
	Fuel tank is empty.	Top up with fuel.
	Fuel filter is clogged.	Have the fuel filter replaces. *
	Air cleaner is dirty.	Clean or replace air cleaner.
	Insufficient engine oil.	Top up with engine oil.
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.	
Cutting blade does not rotate.	The belt is faulty.	Replace the belt.
Engine cannot be turned off.	Electrical connection of the main switch is defective.	1. Close the fuel tap. The engine will switch off after a few seconds. 2. Have the machine repaired.*

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

12 Technical data

12.1 BFS735

Designation	Unit	BFS735
Item no.		5100054573
Max. width	mm (in)	12 (0.5)
Max. cutting depth	cm (in)	12 (4.7)
Peripheral speed with cutting blade 350 mm	m/s (ft/s)	46,0 (150.9)
Operating speed of cutting blade	rpm	2500
Length (guide wheel folded up)	mm (ft)	830 (32,7)
Width	mm (ft)	488 (19.2)
Height	mm (ft)	880 (34.6)
Weight	kg (lb)	68 (149.9)
Min. cutting blade diameter	mm (in)	350 (14)
Max. cutting blade diameter	mm (in)	350 (14)
Center bore of cutting blade	mm (in)	25,4 (1)
Nominal power	kW	4,3
Nominal speed	rpm	3600
Water tank capacity	l (gal)	20 (5.3)
Storage temperature range	°C (°F)	-30 – +50 (-22 – +122)
Operating temperature range	°C (°F)	-15 – +40 (-5 – +104)
Sound power level L_{WA} measured guaranteed	dB(A)	102.9 105
Standard		EN 13862
Vibration total value a_{hv}	m/s^2 (ft/s^2)	9,55(32,4)
Standard		EN 13862

12.2 BFS940

Designation	Unit	BFS940
Item no.		5100054574
Max. width	mm (in)	12 (0.5)
Max. cutting depth	cm (in)	14.5 (5.7)
Peripheral speed with cutting blade 350 mm 400 mm	m/s (ft/s)	40,3(132.2) 46,1 (151.2)
Operating speed of cutting blade	rpm	2200
Length (guide wheel folded up)	mm (ft)	840 (33.1)
Width	mm (ft)	575 (22.6)
Height	mm (ft)	1010 (39.8)
Weight	kg (lb)	86 (189.6)
Min. cutting blade diameter	mm (in)	350 (14)
Max. cutting blade diameter	mm (in)	400 (16)
Center bore of cutting blade	mm (in)	25,4 (1)
Nominal power	kW	6,3
Nominal speed	rpm	3600
Water tank capacity	l (gal)	32 (8.5)
Storage temperature range	°C (°F)	-30 – +50 (-22 – +122)
Operating temperature range	°C (°F)	-15 – +40 (-5 – +104)
Sound power level L_{WA} measured guaranteed	dB(A)	 106.7 110
Standard		EN 13862
Vibration total value a_{hv}	m/s^2 (ft/s^2)	7,27(23,8)
Standard		EN 13862

12.3 BFS1345

Designation	Unit	BFS1345
Item no.		5100054575
Max. width	mm (in)	12 (0.5)
Max. cutting depth	cm (in)	17,0 (6.7)
Peripheral speed with cutting blade 350 mm 400 mm 450 mm	m/s (ft/s)	40,3 (132.2) 46,1 (151.2) 51,8 (169.9)
Operating speed of cutting blade	rpm	2200
Length (guide wheel folded up)	mm (ft)	860 (33.9)
Width	mm (ft)	575 (22.6)
Height	mm (ft)	1010 (39.8)
Weight	kg (lb)	93 (205.03)
Min. cutting blade diameter	mm (in)	350 (14)
Max. cutting blade diameter	mm (in)	450 (18)
Center bore of cutting blade	mm (in)	25,4 (1)
Nominal power	kW	8,7
Nominal speed	rpm	3600
Water tank capacity	l (gal)	32 (8.5)
Storage temperature range	°C (°F)	-30 – +50 (-22 – +122)
Operating temperature range	°C (°F)	-15 – +40 (-5 – +104)
Sound power level L_{WA} measured guaranteed	dB(A)	 106.1 108
Standard		EN 13862
Vibration total value a_{hv}	m/s^2 (ft/s^2)	3,08(16,1)
Standard		EN 13862

12.4 BFS1350

Designation	Unit	BFS1350
Item no.		5100054576
Max. width	mm (in)	12 (0.5)
Max. cutting depth	cm (in)	19,5 (7.7)
Peripheral speed with cutting blade 350 mm 400 mm 450 mm 500 mm	m/s (ft/s)	40,3 (132.2) 46,1 (151.2) 51,8 (169.9) 57,6 (189.0)
Operating speed of cutting blade	rpm	2200
Length (guide wheel folded up)	mm (ft)	890 (35.0)
Width	mm (ft)	575 (22.6)
Height	mm (ft)	1010 (39.8)
Weight	kg (lb)	94 (207.23)
Min. cutting blade diameter	mm (in)	350 (14)
Max. cutting blade diameter	mm (in)	500 (20)
Center bore of cutting blade	mm (in)	25,4 (1)
Nominal power	kW	8,7
Nominal speed	rpm	3600
Water tank capacity	l (gal)	32 (8.5)
Storage temperature range	°C (°F)	-30 – +50 (-22 – +122)
Operating temperature range	°C (°F)	-15 – +40 (-5 – +104)
Sound power level L_{WA} measured guaranteed	dB(A)	 106.5 108
Standard		EN 13862
Vibration total value a_{hv}	m/s^2 (ft/s^2)	3,19(10,4)
Standard		EN 13862

12.5 Combustion engine

Designation	Unit	BFS735	BFS940	BFS1345	BFS1350
Manufacturer		Honda			
Engine type		GX 200	GX 270	GX 390	
Combustion method		Four-cycle			
Cooling		Air cooling			
Cylinder		1			
Engine displacement	cm^3 (in^3)	196 (12.0)	270 (16.5)	389 (23.7)	
Max. tilt position	°	20			
Fuel type		Normal gasoline, also unleaded			
Fuel consumption	l/h (gph us)	1,7 (0.4)	2,4 (0.6)	3,5 (0.9)	
Mixture preparation		Carburetor			
Tank capacity	l (gal)	3,1 (0.8)	5,3 (1.4)	6,1 (1.6)	
Oil specification		SAE 10W-30 API SJ			
Max. oil filling	l (gal)	0,6 (0.2)	1,1 (0.3)		
Rated output Standard	kW	4,3	6,3	8,7	
		SAE J1349			
Rated speed	rpm	3,600			
Type of spark plug		NGK BPR6ES; Denso W20EPR-U			
Spark plug air gap	mm (in)	0,7– 0,8 (0.028 – 0.032)			
Starter type		Recoil starter			
CO2 emission*	g/kWh	757	762	743	
*Determined value of the CO2 emission during engine certification without consideration of the applications on the machine					

13 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.

EU Declaration of Conformity

Manufacturer

Wacker Neuson Machinery (China) Co. Ltd., No. 1688 Xinkai Road, Pinghu Economic Development Zone, Pinghu City, Zhejiang Province, P.R. China

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Product	**BFS735**
Product type	Floor saw
Function of product	Cutting joints
Material number	5100054573
Net installed power	4.3 kW
Measured sound power level	102.9 dB(A)
Guaranteed sound power level	105 dB(A)

Conformity assessment procedure

2000/14/EC amended by 2005/88/EC Annex V

Directives and standards

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

2006/42/EC • 2000/14/EC • 2014/30/EU • EN 13862:2021 • EN ISO 14982:2009

Person responsible for technical documents

Wacker Neuson Produktion GmbH & Co. KG, Wackerstraße 6, 85084 Reichertshofen (DE)

Pinghu (CN), 1/20/2025

Ronald Hess

Managing Director

Original Declaration of Conformity

EU Declaration of Conformity

Manufacturer

Wacker Neuson Machinery (China) Co. Ltd., No. 1688 Xinkai Road, Pinghu Economic Development Zone, Pinghu City, Zhejiang Province, P.R. China

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Product	**BFS940**
Product type	Floor saw
Function of product	Cutting joints
Material number	5100054574
Net installed power	6.3 kW
Measured sound power level	106.7 dB(A)
Guaranteed sound power level	110 dB(A)

Conformity assessment procedure

2000/14/EC amended by 2005/88/EC Annex V

Directives and standards

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

2006/42/EC • 2000/14/EC • 2014/30/EU • EN 13862:2021 • EN ISO 14982:2009

Person responsible for technical documents

Wacker Neuson Produktion GmbH & Co. KG, Wackerstraße 6, 85084 Reichertshofen (DE)

Pinghu (CN), 1/20/2025

Ronald Hess

Managing Director

Original Declaration of Conformity

EU Declaration of Conformity

Manufacturer

Wacker Neuson Machinery (China) Co. Ltd., No. 1688 Xinkai Road, Pinghu Economic Development Zone, Pinghu City, Zhejiang Province, P.R. China

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Product	**BFS1345**
Product type	Floor saw
Function of product	Cutting joints
Material number	5100054575
Net installed power	8.7 kW
Measured sound power level	106.1 dB(A)
Guaranteed sound power level	108 dB(A)

Conformity assessment procedure

2000/14/EC amended by 2005/88/EC Annex V

Directives and standards

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

2006/42/EC • 2000/14/EC • 2014/30/EU • EN 13862:2021 • EN ISO 14982:2009

Person responsible for technical documents

Wacker Neuson Produktion GmbH & Co. KG, Wackerstraße 6, 85084 Reichertshofen (DE)

Pinghu (CN), 1/20/2025

Ronald Hess

Managing Director

Original Declaration of Conformity

EU Declaration of Conformity

Manufacturer

Wacker Neuson Machinery (China) Co. Ltd., No. 1688 Xinkai Road, Pinghu Economic Development Zone, Pinghu City, Zhejiang Province, P.R. China

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Product	**BFS1350**
Product type	Floor saw
Function of product	Cutting joints
Material number	5100054576
Net installed power	8.7 kW
Measured sound power level	106.5 dB(A)
Guaranteed sound power level	108 dB(A)

Conformity assessment procedure

2000/14/EC amended by 2005/88/EC Annex V

Directives and standards

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

2006/42/EC • 2000/14/EC • 2014/30/EU • EN 13862:2021 • EN ISO 14982:2009

Person responsible for technical documents

Wacker Neuson Produktion GmbH & Co. KG, Wackerstraße 6, 85084 Reichertshofen (DE)

Pinghu (CN), 1/20/2025

Ronald Hess
Managing Director

Original Declaration of Conformity

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