



**WACKER
NEUSON**

Operator's Manual

Floorsaw MFS735-CE



EN

5100055241

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0420



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notice**

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**Original
instructions**

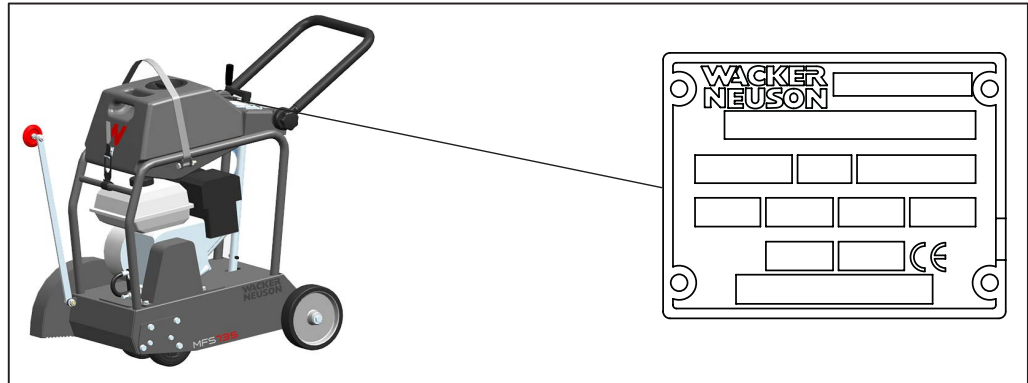
This Operator's Manual presents the original instructions. The original language of this Operator's Manual is American English.

Foreword

SAVE THESE INSTRUCTIONS—This manual contains important instructions for the machine models listed below. These instructions must be followed during operation and maintenance of the machine (and battery, if equipped).

Machines covered in this manual

Machine	Item Number
MFS735-CE	5100055201



Machine identification

A nameplate listing the model number, item number, revision number, and serial number is attached to this machine. The location of the nameplate is shown above.

Serial number (S/N)

For future reference, record the serial number in the space provided below. You will need the serial number when requesting parts or service for this machine.

Serial Number:

Machine documentation

- From this point forward in this documentation, Wacker Neuson Machinery (China) Co., Ltd. will be referred to as Wacker Neuson.
- Keep a copy of the Operator's Manual with the machine at all times.
- If you are missing any of these documents, please contact Wacker Neuson to order a replacement or visit www.wackerneuson.com.
- When ordering parts or requesting service information, be prepared to provide the machine model number, item number, revision number, and serial number.

Expectations for information in this manual

- This manual provides information and procedures to safely operate and maintain the above Wacker Neuson model(s). For your own safety and to reduce the risk of injury, carefully read, understand, and observe all instructions described in this manual.
- Wacker Neuson expressly reserves the right to make technical modifications, even without notice, which improve the performance or safety standards of its machines.
- The information contained in this manual is based on machines manufactured up until the time of publication. Wacker Neuson reserves the right to change any portion of this information without notice.
- The illustrations, parts, and procedures in this manual refer to Wacker Neuson factory-installed components. Your machine may vary depending on the requirements of your specific region.

Manufacturer's approval

This manual contains references to *approved* parts, attachments, and modifications. The following definitions apply:

- **Approved parts or attachments** are those either manufactured or provided by Wacker Neuson.
- **Approved modifications** are those performed by an authorized Wacker Neuson service center according to written instructions published by Wacker Neuson.
- **Unapproved parts, attachments, and modifications** are those that do not meet the approved criteria.

Unapproved parts, attachments, or modifications may have the following consequences:

- Serious injury hazards to the operator and persons in the work area
- Permanent damage to the machine which will not be covered under warranty

Contact your Wacker Neuson dealer immediately if you have questions about approved or unapproved parts, attachments, or modifications.

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1 Safety Information

1.1 Signal Words Used in this Manual

This manual contains DANGER, WARNING, CAUTION, *NOTICE*, and NOTE signal words which must be followed to reduce the possibility of personal injury, damage to the equipment, or improper service.



This is the safety alert symbol. It is used to alert you to potential personal hazards.
► Obey all safety messages that follow this symbol.



DANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

- To avoid death or serious injury from this type of hazard, obey all safety messages that follow this signal word.



WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

- To avoid possible death or serious injury from this type of hazard, obey all safety messages that follow this signal word.



CAUTION

CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

- To avoid possible minor or moderate injury from this type of hazard, obey all safety messages that follow this signal word.

NOTICE: Used without the safety alert symbol, NOTICE indicates a situation which, if not avoided, could result in property damage.

Note: A Note contains additional information important to a procedure.

1.2 Machine Description and Intended Use

The Wacker Neuson compact and lightweight floorsaw offers outstanding cutting performance, smooth operation and excellent maneuverability. This machine bridge the gap between a hand-held cut-off saw and a larger walk-behind floorsaw, and is ideal for small cuts in asphalt and concrete, for patching and repairs jobs and applications such as installing electric fencing, lighting, etc. Due to it's compact size, this machine will fit in every transport vehicle and won't take away much space in any warehouse.

Machine Advantages

- Weight of the engine above the cutting shaft keeps the blade down during cutting, and provides for a stable and non-wavy cut, no need for pushing the machine down. This not only provides for a truly outstanding cutting performance of its class, it even increases blade life too.
- One-touch blade guard can easily opened any time without any tools, for quick and convenient blade changing.
- Operating handle can be easily adjusted without tools to operator's body height, provide high user comfort.
- Durable water tank can quickly be removed without tools for refill or storage.
- Higher user comfort due to location of up/down crank handle in the back of the machine, can easily be reached.
- Additional features like the parking brake and lifting hook makes this machine top class products with excellent value.

This machine has been designed and built strictly for the intended use described above. Using the machine for any other purpose could permanently damage the machine or seriously injure the operator or other persons in the area. Machine damage caused by misuse is not covered under warranty.

The following are some examples of misuse:

- Using the machine as a ladder, support, or work surface
- Using the machine to carry or transport passengers or equipment
- Operating the machine outside of factory specifications
- Operating the machine in a manner inconsistent with all warnings found on the machine and in the Operator's Manual.

This machine has been designed and built in accordance with the latest global safety standards. It has been carefully engineered to eliminate hazards as far as practicable and to increase operator safety through protective guards and labeling. However, some risks may remain even after protective measures have been taken. They are called residual risks. On this machine, they may include exposure to:

- Heat, noise, exhaust, and carbon monoxide from the engine
- Fire hazards from improper refueling techniques
- Fuel and its fumes
- Electric shock and arc flash
- Personal injury from improper lifting techniques

To protect yourself and others, make sure you thoroughly read and understand the safety information presented in this manual before operating the machine.

1.3 Operating Safety

Operator training

Before operating the machine:

- Read and understand the operating instructions contained in all manuals delivered with the machine.
- Familiarize yourself with the location and proper use of all controls and safety devices.
- Contact Wacker Neuson for additional training if necessary.

When operating this machine:

- Do not allow improperly trained people to operate the machine. People operating the machine must be familiar with the potential risks and hazards associated with it.

Operator qualifications

Only trained personnel are permitted to start, operate, and shut down the machine. They also must meet the following qualifications:

- have received instruction on how to properly use the machine
- are familiar with required safety devices

The machine must not be accessed or operated by:

- children
- people impaired by alcohol or drug

Application area

Be aware of the application area.

- Keep unauthorized personnel, children, and pets away from the machine.
- Remain aware of changing positions and the movement of other equipment and personnel in the application area/job site.
- Identify whether special hazards exist in the application area, such as toxic gases, or unstable ground conditions, and take appropriate action to eliminate the special hazards before using the machine.

Be aware of the application area.

- Do not operate the machine in areas that contain flammable objects, fuels, or products that produce flammable vapors.

Safety devices, controls, and attachments

Only operate the machine when:

- All safety devices and guards are in place and in working order.
- All controls operate correctly.
- The machine is set up correctly according to the instructions in the Operator's Manual.
- The machine is clean.
- The machine's labels are legible.

To ensure safe operation of the machine:

- Do not operate the machine if any safety devices or guards are missing or inoperative.
- Do not modify or defeat the safety devices.
- Only use accessories or attachments that are approved by Wacker Neuson.

Safe operating practices

When operating this machine:

- Remain aware of the machine's moving parts. Keep hands, feet, and loose clothing away from the machine's moving parts.

When operating this machine:

- Do not operate a machine in need of repair.

Personal Protective Equipment (PPE)

Wear the following Personal Protective Equipment (PPE) while operating this machine:

- Close-fitting work clothes that do not hinder movement
- Safety glasses with side shields
- Hearing protection
- Safety-toed footwear

Transporting and installing the machine

- Never allow untrained personnel to operate or service the machine.
- Do not stand under the machine while it is being hoisted or moved.
- Do not attach equipment to the machine when it is suspended.
- Always transport the machine in an upright position.
- Always position and operate the machine on a firm, noncombustible, level surface.

General Safety

- Do not operate the machine when open containers of fuel, paint, or other flammable liquids are near.
- Do not operate the machine, or tools attached to the machine, with wet hands..
- Do not enclose or cover the machine when it is in use or when it is hot.
- Do not operate the machine in snow, rain, or standing water.
- Do not stand on the machine.

Machine vibration

Floorsaw vibrates in normal use. During and after the use of the machine, inspect the machine before storing it.

- Have damaged items repaired or replaced as necessary.
- Do not use plugs or cords that show signs of damage such as broken or cracked insulation or damaged blades.

After use

- Store the machine properly when it is not being used. The machine should be stored in a clean, dry location out of the reach of children.

Cleaning

When cleaning and servicing the machine:

- Keep the machine clean and free of debris such as leaves, paper, cartons, etc.
- Keep the labels legible.

When cleaning the machine:

- Do not clean the machine while it is running.
- Never use gasoline or other types of fuels or flammable solvents to clean the machine. Fumes from fuels and solvents can become explosive.

1.4 Operator Safety while Using Internal Combustion Engines



WARNING

Internal combustion engines present special hazards during operation and fueling. Read and follow the warning instructions in the engine owner's manual and the safety guidelines below. Failure to follow the warnings and safety standards could result in severe injury or death.

- ▶ Do not smoke while operating the machine.
- ▶ Do not smoke when refueling the engine.
- ▶ Do not refuel a hot or running engine.
- ▶ Do not refuel the engine near an open flame.
- ▶ Do not run the engine near open flames.
- Do not run the machine indoors or in an enclosed area such as a deep trench unless adequate ventilation, through such items as exhaust fans or hoses, is provided. Engine exhaust contains carbon monoxide. This is a poison you cannot see or smell. Exposure to carbon monoxide can cause loss of consciousness and CAN KILL YOU IN MINUTES.
- ▶ Refill the fuel tank in a well-ventilated area.
- ▶ Replace the fuel tank cap after refueling.
- ▶ ALWAYS check the fuel lines and the fuel tank for leaks and cracks before starting the engine. Do not run the machine if fuel leaks are present or the fuel lines are loose.
- ▶ ALWAYS keep the area around a hot exhaust pipe free of debris to reduce the chance of an accidental fire.

1.5 Service Safety

Service training

Before servicing or maintaining the machine:

- Read and understand the instructions contained in all manuals delivered with the machine.
- Familiarize yourself with the location and proper use of all controls and safety devices.
- Only trained personnel shall troubleshoot or repair problems occurring with the machine.
- Contact Wacker Neuson for additional training if necessary.

When servicing or maintaining this machine:

- Do not allow improperly trained people to service or maintain the machine. Personnel servicing or maintaining the machine must be familiar with the associated potential risks and hazards.

Precautions

Follow the precautions below when servicing or maintaining the machine.

- Read and understand the service procedures before performing any service to the machine.
- All adjustments and repairs must be completed before operating the machine. Do not operate the machine with a known problem or deficiency.
- All repairs and adjustments shall be completed by a qualified technician.
- Turn off the machine before performing maintenance or making repairs.
- Remain aware of the machine's moving parts. Keep hands, feet, and loose clothing away from the machine's moving parts.
- Re-install the safety devices and guards after repair and maintenance procedures are complete.

Machine modifications

When servicing or maintaining the machine:

- Use only accessories/attachments that are approved by Wacker Neuson.

When servicing or maintaining the machine:

- Do not defeat safety devices.
- Do not modify the machine without the express written approval of Wacker Neuson.

Replacing parts and labels

- Replace worn or damaged components.
- Replace all missing and hard-to-read labels.
- When replacing electrical components, use components that are identical in rating and performance to the original components.
- When replacement parts are required for this machine, use only Wacker Neuson replacement parts or those parts equivalent to the original in all types of specifications, such as physical dimensions, type, strength, and material.

Cleaning

When cleaning and servicing the machine:

- Keep the machine clean and free of debris such as leaves, paper, cartons, etc.
- Keep the labels legible.

When cleaning the machine:

- Do not clean the machine while it is running.
 - Never use gasoline or other types of fuels or flammable solvents to clean the machine. Fumes from fuels and solvents can become explosive.
-

**Personal
Protective
Equipment
(PPE)**

Wear the following Personal Protective Equipment (PPE) while servicing or maintaining this machine:

- Close-fitting work clothes that do not hinder movement
- Safety glasses with side shields
- Hearing protection
- Safety-toed footwear

In addition, before servicing or maintaining the machine:

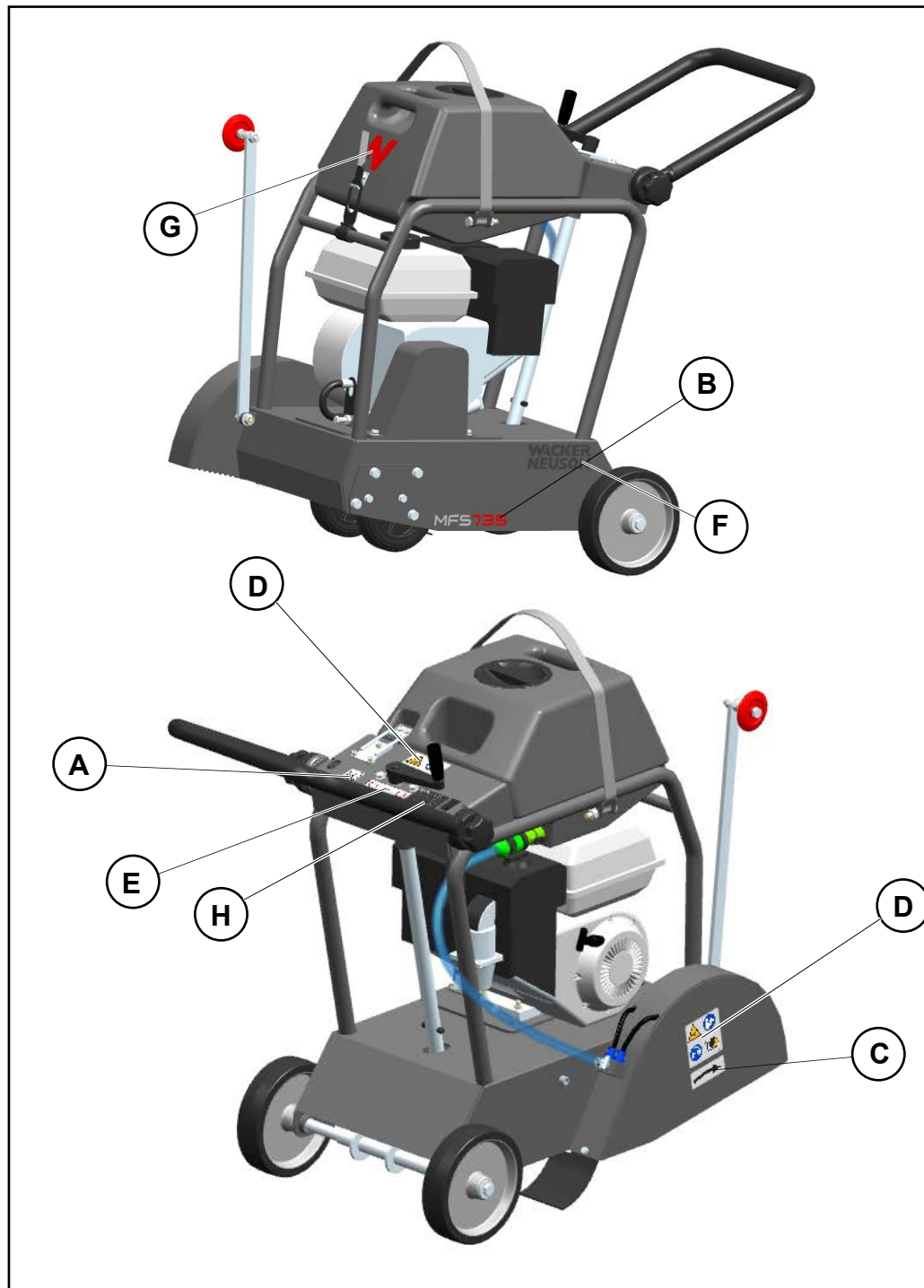
- Tie back long hair.
 - Remove all jewelry (including rings).
-

Precautions

- Do not allow water to accumulate around the base of the machine. If water is present, move the machine and allow the machine to dry before servicing.
- Do not service the machine if your clothing or skin is wet.
- Always turn the engine off before servicing the machine. If the engine has electric start, disconnect the negative terminal on the battery before servicing the machine.
- Always let the engine cool before transporting or servicing the machine.

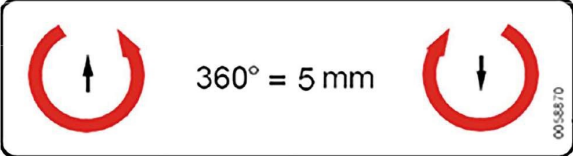
2 Labels

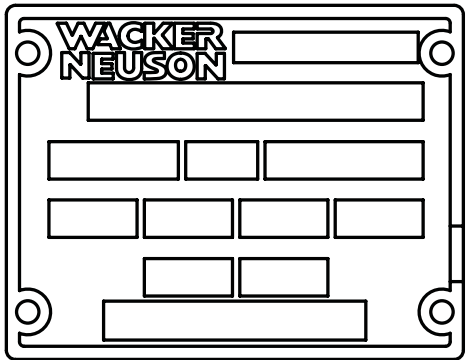
2.1 Label Locations



2.2 Label Meanings

A		Guaranteed sound power level in dB(A).
B		Machine label
C		Cutting blade: rotation label
D		• Caution, risk of injury • Read the operator's manual. • Wear an eye protection and ear protection! • Machine may not be offset with the cutting blade rotating.

E		Cutting depth label
F		Company Label
G		Company logo

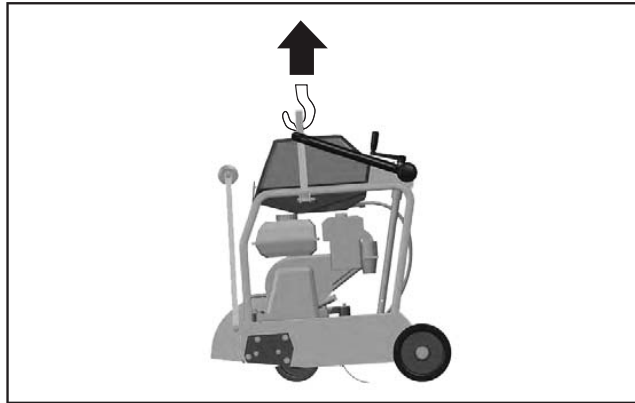
H	 The diagram shows a rectangular nameplate with rounded corners and four mounting holes. The top left corner contains the 'WACKER NEUSON' logo. The plate features several rectangular fields for text entry: a single line at the top right, a single line below the logo, a row of three boxes, a row of four boxes, a row of two boxes, and a single line at the bottom.	A nameplate listing the model number, item number, revision number, and serial number is attached to each unit. Please record the information found on this nameplate so it will be available should the nameplate become lost or damaged. When ordering parts or requesting service information, you will always be asked to specify the model number, item number, revision number, and serial number of the unit.
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3 Lifting and Transporting

Lifting the Machine

This machine is heavy enough to cause injury if proper lifting techniques are not used. Observe the following guidelines when lifting the floorsaw.

- Do not attempt to lift the machine unassisted. Use appropriate lifting equipment such as slings, chains hooks, ramps or jacks.
- Make sure lifting equipment is attached securely and has enough weight-bearing capacity to lift or hold the pump safely.
- Remain aware of the location of other people nearby when lifting the machine.

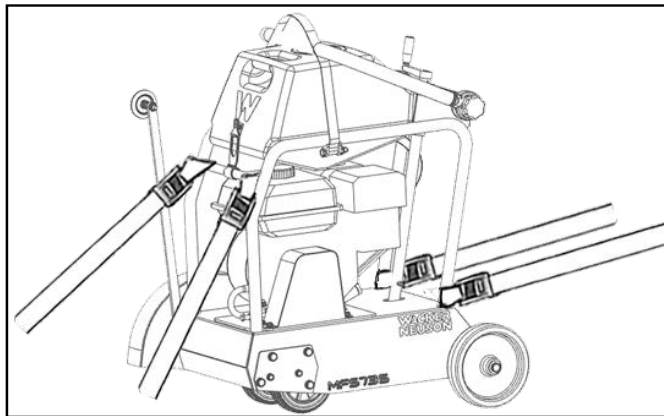


Transporting the Machine

Observe the following guidelines when transporting the floorsaw to and from the job site.

- Drain the fuel tank before transporting the machine.
- Ensure that the machine is securely strapped down in the transport vehicle to prevent it from sliding or tipping.

Tie-down points:



- Do not refuel the machine in or on the transport vehicle. Move the machine to its operating location and then fill the fuel tank.
- 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.

4 Operation

4.1 Preparing the Machine for First Use

- Procedure** Perform the procedure below to prepare the machine.
1. Make sure all loose packaging materials have been removed from the machine.
 2. Check the machine and its components for damage. If there is visible damage, do not operate the machine! Contact your Wacker Neuson dealer immediately for assistance.
 3. Take inventory of all items included with the machine and verify that all loose components and fasteners are accounted for.
 4. Attach component parts not already attached.
 5. Add fluids as needed and applicable, including fuel, engine oil, and battery acid.
 6. Move the machine to its operating location.

4.2 Recommended Fuel

The engine requires regular grade unleaded gasoline. Use only fresh, clean gasoline. Gasoline containing water or dirt will damage the fuel system. Consult the engine owner's manual for complete fuel specifications.

**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 and provinces require this information to be posted on the fuel pump.

Ethanol

The following is the Wacker Neuson approved percentage of oxygenates:

(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, 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 above are not covered under warranty.

4.3 Application

The Floorsaw should only be operated in a forward direction. The drive engine fastened to the frame drives the cutting blade by way of a drive belt.

The infinitely variable cutting depth of the cutting blade is adjusted with the help of a hand crank, and 1 turn of the crank equals 5 mm (0.20 in) cutting depth adjustment.

The Blade guard can be swung away upwards for an easier assembly of the cutting blade.

The blade guard is moreover linked to the water tank via a hose and a coupling.

Wetting the cutting blade with water will stop dust forming during the cutting process.

The coupling fitted to the water hose means an external water supply can be used.

The engine works according to the 4-stroke principle, is started by means of a recoil starter, takes in the air via a dry air filter and is air cooled.

The engine speed can be infinitely varied with the help of the throttle lever; the optimum cutting speed of the cutting blade is only achieved when the drive engine is turning at full speed.

In order to facilitate the starting, the engine is provided with a choke.

During operation, there should always be sufficient water in the water tank

4.4 Before Starting the Machine

Remember Read and understand the safety and operating instructions at the beginning of this manual.

Check

- Oil level in the engine
- Fuel level
- Condition of the air cleaner
- Tightness of the external fasteners
- Condition of the fuel lines

4.5 Starting the Machine

Procedure Perform the procedure below to start the machine.

1. Turn the fuel cock to the "ON" (OPEN) position **(a1)**.

Note: If engine is cold, move choke lever to close position **(b1)**. If engine is hot, set choke to open position **(b2)**.

2. Move the governor lever to left a little **(c1)**.

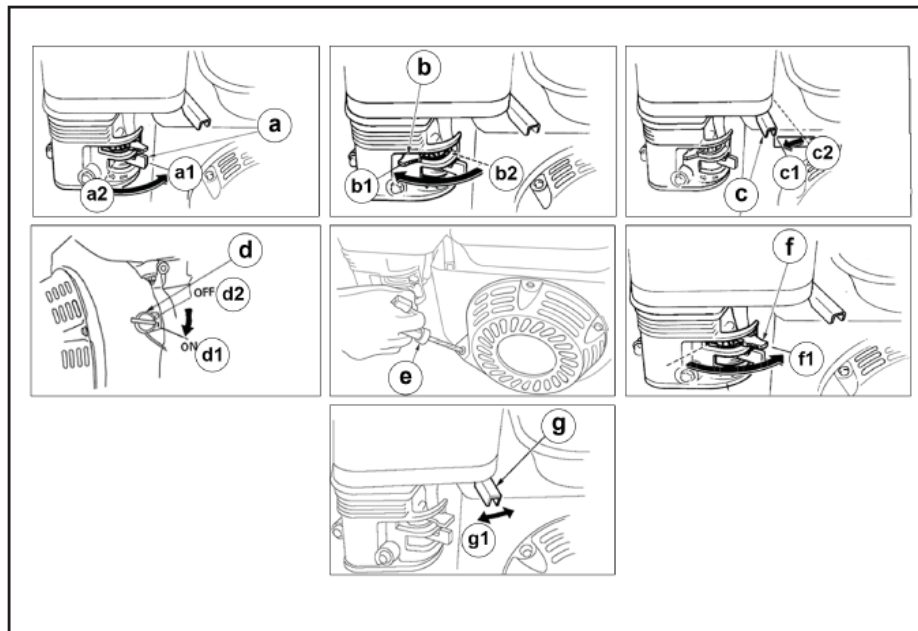
3. Turn the engine switch to "ON" position. **(d1)**.

4. Pull the starter rope **(e)**.

5. **Note:** Don't allow the starter grip to snap back against the engine. Return it gently to prevent damage to the starter.

6. Preheat the engine and push back the choke lever to the "OPEN" position **(f1)**.

7. Move the throttle lever to proper position to make the gasoline engine run at required velocity. **(g1)**



Result The machine is now ready to operate.

4.6 Stopping the Machine

Procedure Perform the procedure below to stop the machine.

1. Reduce the engine rpm to idle by moving the throttle completely to the left (**g**).
2. Turn the engine switch to “OFF” (**d2**)
3. Close the fuel valve (**a2**).

4.7 Adjusting the Guide Handle

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

Loosen the star grip (**a**) on both sides, swivel the handle to the desired position and retighten the two star grip (**a**).



Result The guide handle is adjusted to ease the operation.

4.8 Use of the Cutting Blade

Things to Remember

General application instructions for use of diamond cutting blades:

1. Never use a diamond cutting blade of a diameter larger than necessary to cut down to a certain depth.
2. Pull the blade out of the cut if it has stopped turning and before restarting the engine. Check to see if the belt has been tensioned sufficient if the cutting blade should get stuck in the cut. Also check the tensioning screw and make sure that it is correctly tightened.
3. Always cut a straight line. Mark the line clearly allowing the operator to follow it easily without having to guide it from one side to the other to come back to the line (do not cut narrow curves).
4. Sufficient drive power is essential, therefore always cut with engine at full throttle.
5. Never exceed the maximum turning speed (printed on cutting blade).
6. Only use appropriate cutting blade for the material you are going to cut. Wacker Neuson has an extensive selection of diamond blades in different grades of qualities for you.

Types of Asphalt

Diamond blades for asphalt are suited for:

- Asphalt
- Freshly mixed concrete (from 48 hours to 28 days old)
- Sandstone
- Sandy bricks
- Floor toppings
- Sandy limestone

Not suited for

- Set concrete
- Hard bricks or paving setts
- Concrete with exposed aggregates by washing
- Natural stone

Diamond blades for concrete are suited for:

Type of Concrete

- Set concrete (older than 28 days with reinforcements up to maximum diameter of 6mm)

Not suited for

- Other kind of materials



CAUTION

DO NOT cut into the crushed stone layer or similar material layer when working with a diamond blade. Uneven wear may occur when cutting along road edges or two different types of materials (cutting along joints). Special care is required if the material to be cut shows irregularities (eg. reinforcement bars). This could easily lead to an overloading of the cutting blade. Proceed carefully when starting a cut. Lower the blade into the material slowly.

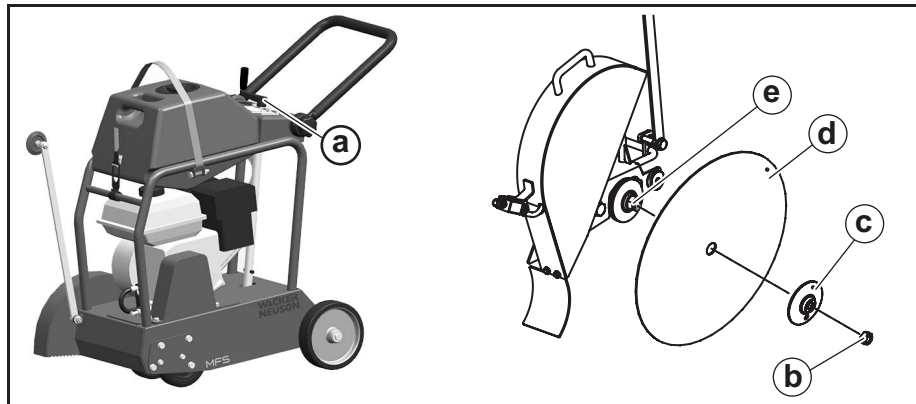


CAUTION

CAUTION: Special care is required when working on slopes (lanes and surfaces). Make sure the machine is not exerting a lateral pressure on the blade.

4.9 Installation of the Cutting Blade

- Procedure** Perform the procedure below to install the blade.
1. Make sure that the engine is switched "OFF".
 2. Turn the crank **(a)** counter-clockwise until the machine tilts up at maximum height.
 3. Lift the blade-guard up from the front side.
 4. Using the wrench that comes with the machine, remove the nut **(b)** which fastens the face-plate **(c)**.
 5. Take out the face-plate **(c)**, and then place the blade **(d)** through the shaft next to the supporting disc **(e)**.
 6. Then re-install the face-plate **(c)** and secure by tightening the nut **(b)**.
 7. Lower the cutting blade guard back down.



Result The cutting blade is now installed.

4.10 Removal of the Cutting Blade

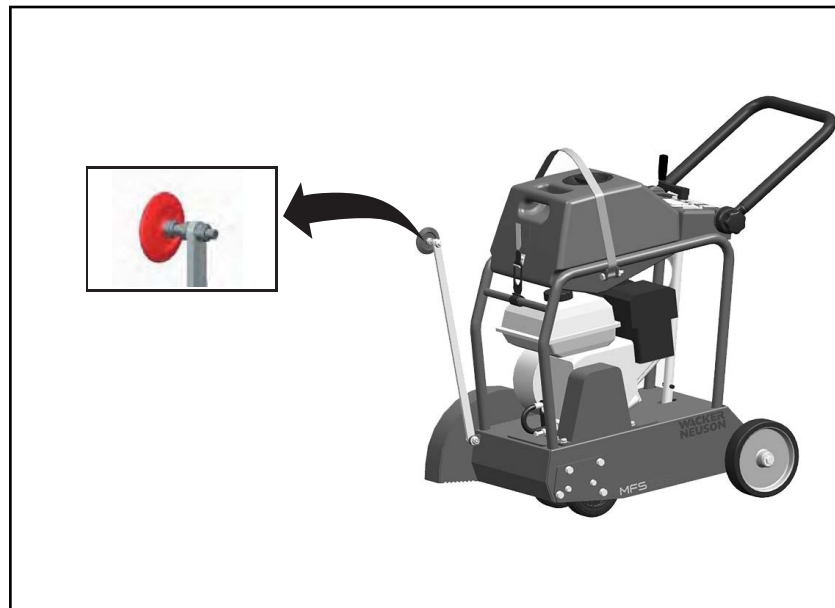
- Procedure** Perform the procedure below to remove the cutting blade.
1. Make sure that the engine and the water feed is switched "OFF", and the blade is cool.
 2. Turn the crank **(a)** counter-clockwise until the blade no longer touches the floor.
 3. Lift the blade-guard up from the front side.
 4. Loosen & remove the nut, and then remove the face-plate and the blade from the shaft.
 5. Lower the cutting blade guard back down.

Note: Store the face-plate, nut and the cutting blade in such a way as to avoid them getting dirty. Assemble these parts back before transport of the machine.

Result The cutting blade has been removed.

4.11 Guide Wheel

The Guide Wheel makes the job of cutting long straight cuts easier.



4.12 Cutting Depth Adjustment

Guidelines Perform the following guidelines in adjusting the cutting depth.

The cutting depth can be precisely set with the crank **(a)**. One turn of the crank is equal to 5 mm (0.20 in) cutting depth.

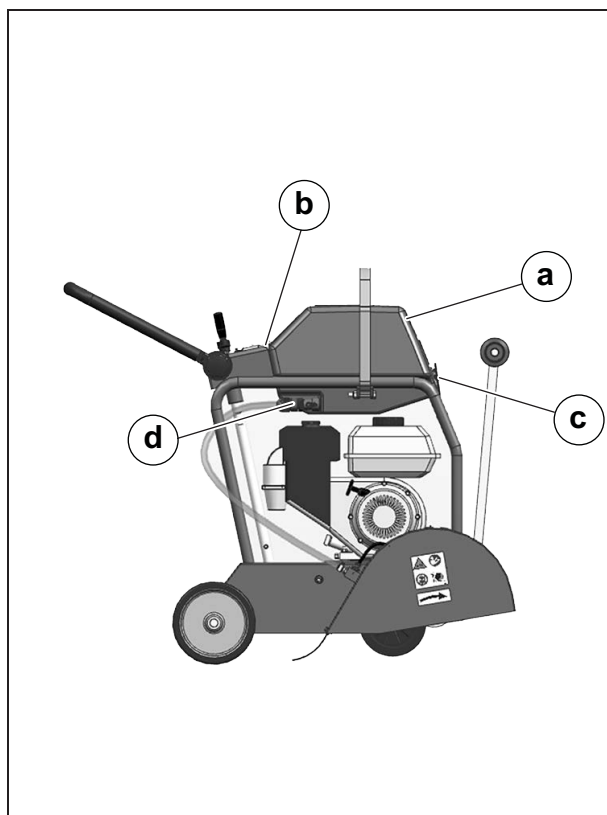
A clockwise turn deepens the cutting depth.

A counter clockwise turn reduces the cutting depth.

Note: Make sure that the engine is in full throttle before and during cutting operation.



4.13 Water Tank



Ref.	Description	Ref.	Description
a	Water tank	c	Strap
b	Retaining clamp	d	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.

5 Maintenance

5.1 Periodic Maintenance Schedule

Engine Maintenance

The chart below lists basic engine maintenance. Refer to the engine manufacturer's Operation manual for additional information.

	Daily before starting	After first 20 hr or 1mo.	Every 50 hr or 3 mo.	Every 100 hr or 6 mo.	Every 300 hr or 1 yr.
Check the fuel level.	■				
Check the engine oil level.	■				
Inspect the fuel lines	■				
Inspect the air filter. Replace as needed	■				
Check the external hardware.	■				
Check and adjust the drive belt.		■	■		
Apply grease on grease points and on bearing fittings.				■	
Clean the air cleaner elements.			■		
Change the engine oil.		■		■	
Clean the engine cooling fins.				■	
Clean the sediment cup / fuel filter.				■	
Check and the clean spark plug.				■	

5.2 Servicing the Spark Plug

When Clean the spark plug every 100 hours of operation or every 6 months. Replace the spark plug as needed.

Requirements

- Machine shut down
- Engine cool

Procedure Perform the procedure below to clean the spark plug.

Note: Refer to chapter "Technical Data" for the recommended spark plug type and the electrode gap setting.



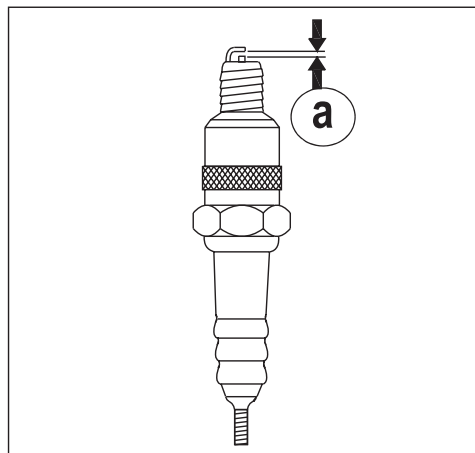
WARNING

Burn hazard. The engine and muffler become very hot during operation and remains hot for a while after stopping the engine. Do not touch the muffler while it is hot.

► Allow the engine to cool before performing this procedure.

1. Remove the spark plug and inspect it.
2. Replace the spark plug if the insulator is cracked or chipped.
3. Clean the spark plug electrodes with a wire brush.
4. Set the electrode gap (**a**).
5. Tighten the spark plug securely.

NOTICE: A loose spark plug can become very hot and may cause engine damage.



5.3 Servicing the Air Cleaner

Background A dirty air filter element can restrict air flowing into the carburetor. To keep the carburetor in good working conditions, service the air filter element periodically. If operating the engine in extremely dusty area, the job should be done more often.

**WARNING**

Explosion hazard and fire hazard.

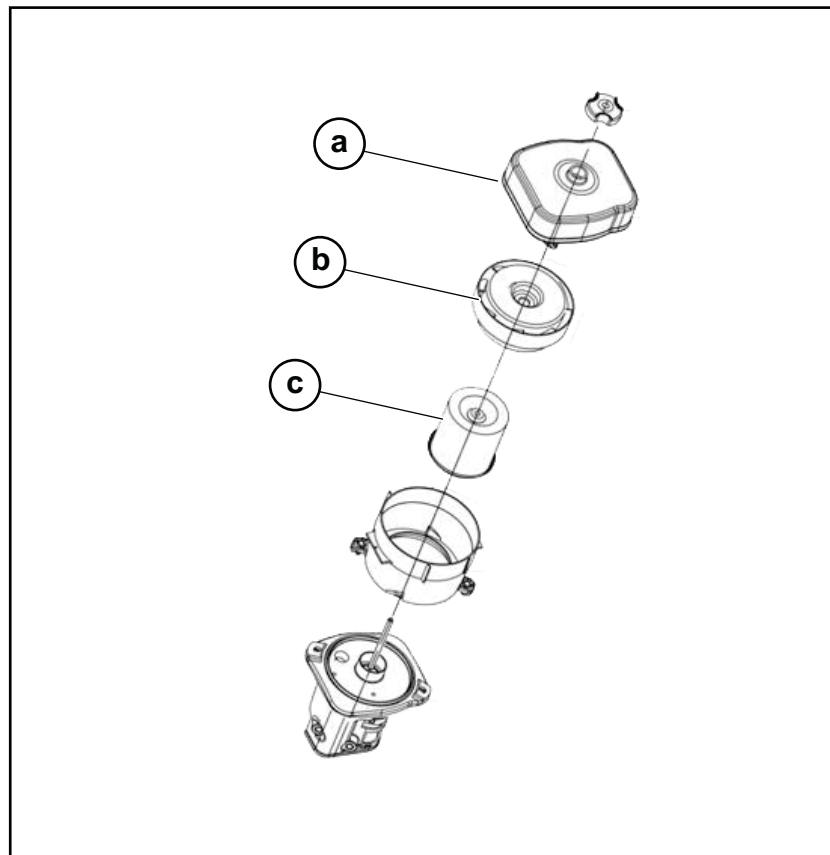
- Do not clean the air filter element with gasoline or low-flash point detergents.

NOTICE: Do not run the engine without an air filter element; doing so will damage the engine.

Procedure

Perform the procedure below to service the air filter element.

1. Remove air cleaner cover **(a)**. Remove both elements and inspect them for holes or tears. Replace damaged elements
2. Wash foam element **(b)** in solution of mild detergent and warm water. Rinse thoroughly in clean water. Allow element to dry thoroughly. Soak element in clean engine oil and squeeze out excess oil.
3. Tap paper element **(c)** lightly to remove excess dirt. Replace paper element if it appears heavily soiled.



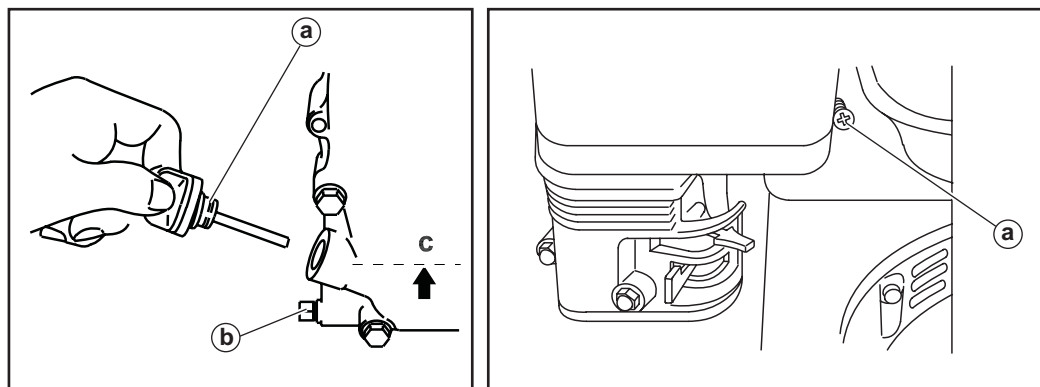
5.4 Changing the Engine Oil

Procedure Perform the procedure below to change the engine oil.

1. Drain the oil while the engine is still warm.
2. Remove the oil filter plug **(a)** and the drain plug **(b)** to drain the oil.

Note: *In the interest of environmental protection, place a plastic sheet and a container under the machine to collect any liquid that drains off. Dispose of this liquid in accordance with environmental protection legislation.*

3. Install the drain plug.
4. Fill the engine crankcase with the recommended oil up to the level of the lug opening **(c)**. See chapter *Technical Data* for oil quantity and type.
5. Install the oil filler plug.

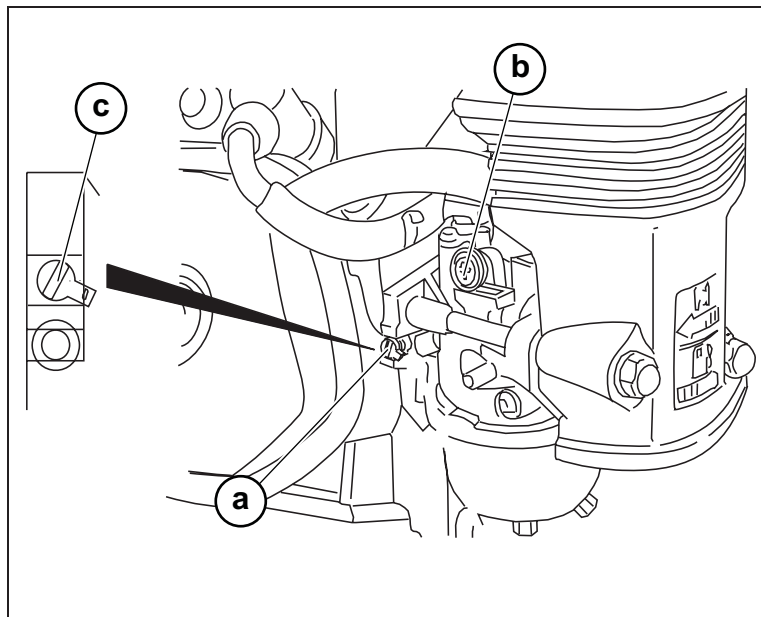


5.5 Adjusting the Carburetor

Procedure Perform the procedure below to adjust the carburetor.

1. Start the engine and allow it to warm up to operating temperature.
2. Set the pilot screw **(a)** two turns out. See *Note*.
3. With the engine idling, turn the pilot screw **(a)** in or out to the setting that produces the highest rpm.
4. After the pilot screw is adjusted, turn the throttle stop screw **(b)** to obtain the standard idle speed. See *Technical Data*.

Note: On some engines the pilot screw is fitted with a limiter cap **(c)** to prevent excessive enrichment of the air-fuel mixture in order to comply with emission regulations. The mixture is set at the factory and no adjustment should be necessary. Do not attempt to remove the limiter cap. The limiter cap cannot be removed without breaking the pilot screw.

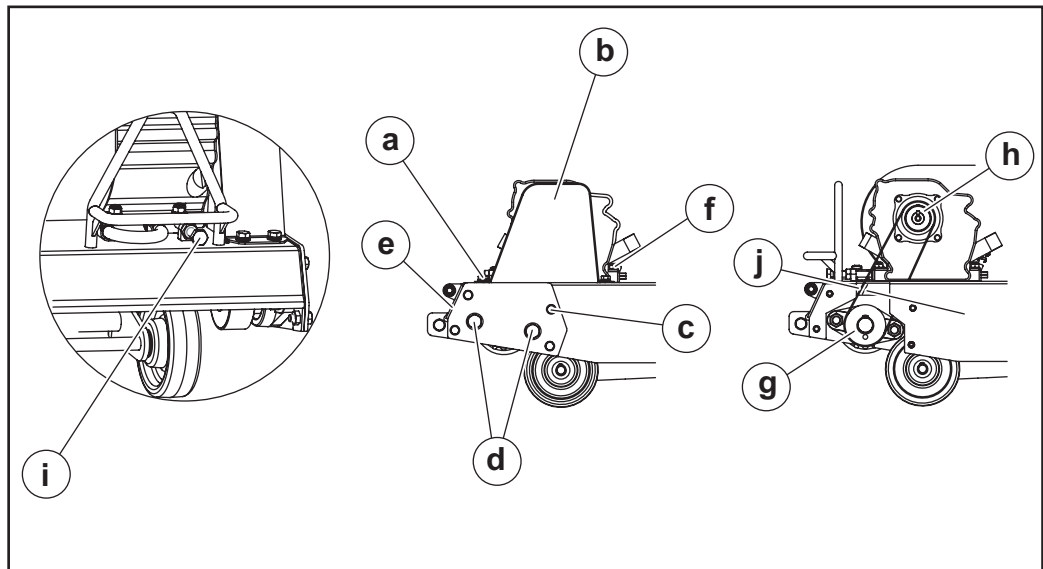


5.6 Changing the Drive Belt

Task Check the belt tension or replace the belt.

Procedure Perform the procedure below to change the drive belt.

1. Loosen the three screws **(a)** and remove the beltguard **(b)** keeping the screw assemblies captured on the beltguard.
2. Loosen the four screws **(c)** and the two nuts **(d)** and remove the cover plate **(e)** together with the bearing attached to it.
3. Loosen the four nuts **(f)** which hold the engine to the frame assembly.
4. When replacing a belt, attach the new belt into the pulley **(g)** and into the engine pulley **(h)**. Tension the belt by adjusting the tensioning screw **(i)**. To check for proper belt tension, belt should deflect 10-12 mm (0.40-0.48 in) when pressed midway **(j)** between engine pulley **(h)** and pulley **(g)**.
5. When the belt tension is attained, tighten the four nuts **(f)** on the engine base.
6. Re-install the beltguard. Fasten the four beltguard screws **(a)**.
7. Re-install the cover plate **(e)** with the bearing. Fasten the four screws **(c)** and the two nuts **(d)**.



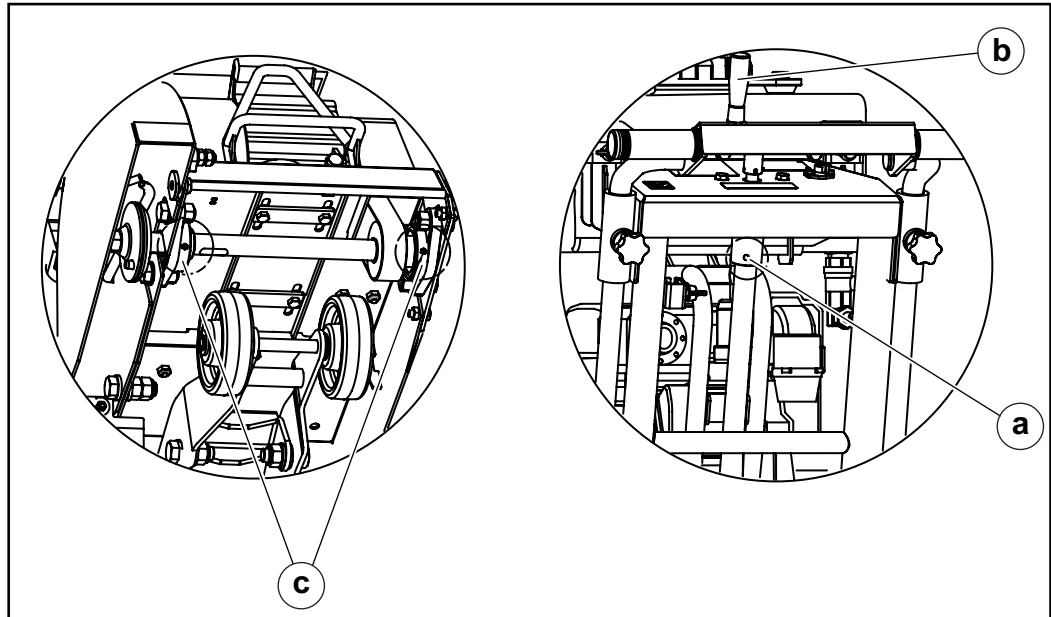
Result The procedure in changing the drive belt is now complete.

5.7 Lubrication Points

Tasks

Perform the following task in lubricating the machine.

- Position the machine at its maximum height by turning the crank **(b)** counter-clockwise.
- Apply grease on the hole **(a)** and **grease points (c)** as shown.



5.8 Storage

- Procedure** Perform the procedure below to store the machine for more than 30 days.
1. Remove the dirt from the machine.
 2. Empty the water tank.
 3. Clean or replace the engine air filter.
 4. Change the engine oil and clean the engine thoroughly with an oiled cloth.
 5. Place multi-purpose grease on the rear wheel's valve stem.
 6. Cover the machine and store in a clean dry area.

6 Troubleshooting

Problem	Cause	Remedy
Engine does not start.	• Engine throttle control not completely open. • Fuel tap is closed. • Fuel tank is empty. • Fuel line is clogged. • Fuel filter is clogged. • Carburetor is clogged. • Air cleaner is clogged. • Spark plug cap is defective. • Spark plug is defective. • Spark plug is loose. • Spark plug gap is set incorrectly. • Insufficient engine oil.	• Set the main switch to the "I" position. • Open the fuel tap. • Top up with fuel. • Have the fuel line cleaned. * • Have the fuel filter replaced. * • Have the carburetor cleaned. * • Clean or replace air cleaner. • Have the machine repaired. * • Change the spark plug. • Tighten the spark plug. • Set the spark plug gap • Top up with engine oil.
Engine shuts off right after starting.	• Idle speed is adjusted incorrectly. • Fuel tank is empty. • Fuel filter is clogged. • Air cleaner is dirty. • Insufficient engine oil.	• Set idle speed. • Top up with fuel. • Have the fuel filter replaced. * • Clean or replace air cleaner. • Top up with engine oil.
Engine has low performance.	• Air cleaner is dirty.	• Clean or replace air cleaner.
Recoil starter defective.	• Starter rope jammed. • Starter rope torn off.	• Have the starter rope replaced.*
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.	• Close the fuel tap. The engine will switch off after a few seconds. • Have the machine repaired.*

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

7 Technical Data

7.1 Engine Data

Engine Power Rating

Net power rating per SAE J1349. Actual power output may vary due to conditions of specific use.

		MFS735-CE
Engine		
Engine make		Loncin
Engine model		G210F
Maximum rated power at rated speed	kW	4.4 @ 3600 rpm
Spark plug		F7RTC
Electrode gap	mm (in.)	0.70–0.80 (0.028–0.032)
Operating speed	rpm	3600
Air cleaner	type	Cyclone air filter
Engine lubrication	oil grade	SAE 10W-30, API SE or SF, for general use
Engine oil capacity	ml (oz.)	600 (20)
Fuel	type	Gasoline
Fuel tank capacity	L (gal)	3.0 (0.8)
Valve clearance (cold) Inlet: Outlet:	mm.	0.15 ± 0.02 0.20 ± 0.02

7.2 Machine Data

		MFS735-CE
Machine		
Dry weight (w/o blade)	kg	69
Water tank capacity	l(qts)	20 (21)
Nominal blade speed	rev/min	2500
Arbor diameter	mm (in)	25.4 (1)

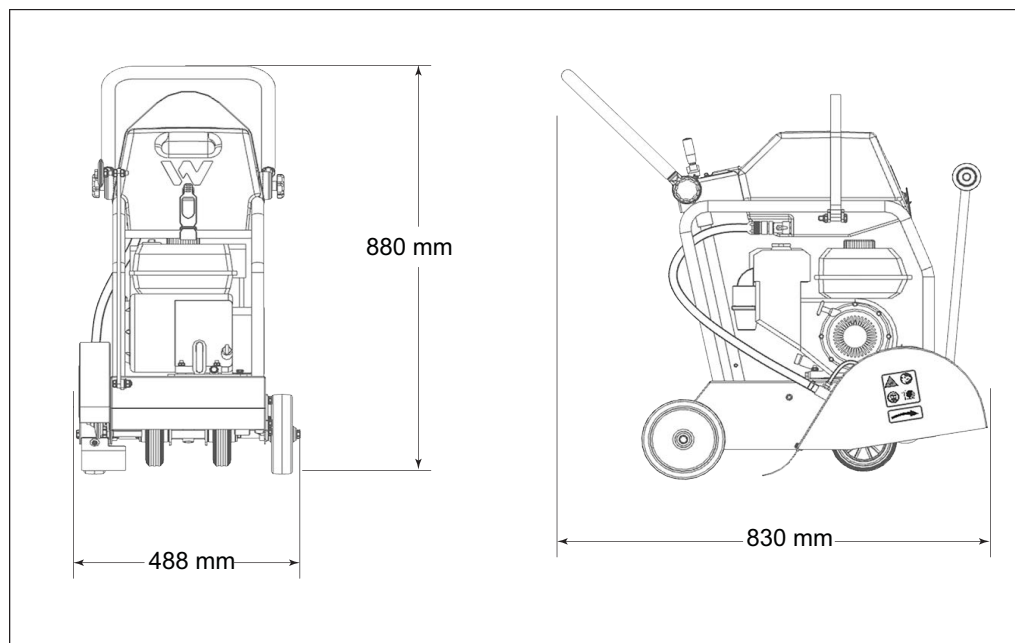
7.3 Sound Measurements

The required sound specification, EU Noise Directive 2000/14/EC Annex V & 2005/88/EC Basic noise emission standard EN ISO 3744: 1995 Operation condition in according to point 30 Part B Annex III EU-RL 2000/14/EC

- ▶ The measured sound power level (LWA) = 103 dB(A)
- ▶ The guaranteed sound power level (LWA) = 103 dB(A)

The sound measurements were obtained with the machine operating on hard concrete.

8 Dimensions



**WACKER
NEUSON**

EC 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	MFS735-CE
Product type	Floor saws
Function of product	Cutting joints
Item number	5100055201
Net installed power	4.4 kW
Measured sound power level	103 db(A)
Guaranteed sound power level	105 db(A)

Conformity assessment procedure

2000/14/EC, Annex V

Guidelines and standards

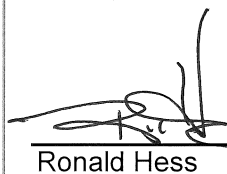
We hereby declare that this product complies with the relevant provisions and requirements of the following directives and standards:

2006/42/EC, 2000/14/EC, 2014/30/EU, EN 55012:2007 +A1:2009, EN 13862:2001 +A1:2009

Person responsible for technical documents

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

China, 2020/4/9



Ronald Hess
Managing Director

Original Declaration of Conformity



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