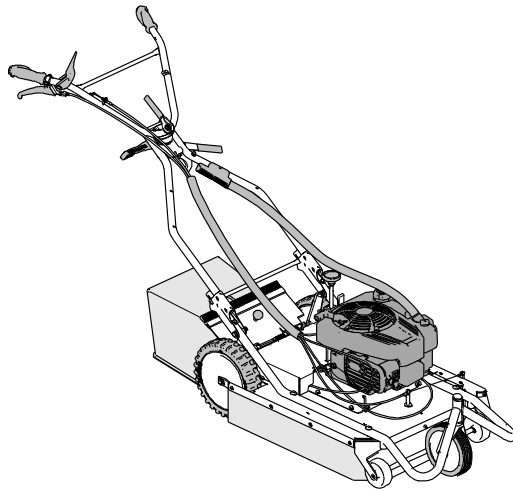




# Operating Instructions



Weed-Hex

AS 50

From serial number: 016612030061  
Issued: 12 February 2015, V10.0  
EN-Translation of the Original Operating Instructions

## Preface

Please fill in all data referring to your device. When ordering spare parts, provide your dealer with the device and engine number.

Serial number:

Plases adhere the sticker from the warranty card here.

Engine number:

Date of purchase:

Address of dealer:

### Dear customer:

Congratulations on your purchase. You have acquired a reliable quality product by "AS-Motor Germany".

This product has been manufactured according to modern manufacturing methods and comprehensive quality assurance measures. Only when you are satisfied with your device, we have attained our goal.

Read these operating instructions carefully and attentively so that your device operates smoothly and you and others are safe from any hazards. If you have questions concerning your device, please contact your dealer or call our customer service (telephone +49/(0)7973/9123-0). For international AS partners, please see: [www.as-motor.de/worldwide](http://www.as-motor.de/worldwide).

"AS-Motor Germany" wishes you much joy with your new device.

## Intended use

The device is exclusively intended for cleaning of paved surfaces and edges covered with moss and weeds.

Only use attachments and cutting tools authorised by "AS-Motor Germany".

Any use exceeding this purpose is inadmissible. The manufacturer is not responsible for any damage resulting from this. Observe the required maintenance and repair measures.

The user of the device is responsible for accidents or damage to other persons or their property!

The device **must not** be used

- on public roads.
- as drive system for any type of work tools and tool sets that are not approved by AS-Motor.
- for sweeping or mowing over unpaved surfaces.

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# Explanation of the symbols

## Symbols in the instructions

In these operating instructions, the following symbols are used to denote special dangers.



Warning.  
These symbols denote special dangers.



Prohibition sign.  
These symbols denote inadmissible procedures.



Directive sign.  
These symbols denote required protective measures.

## Symbols on the device

The following symbols are placed on the device to inform you must be careful and attentive when using the device:



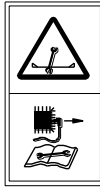
Working with the device requires extreme cautiousness.  
Read the operating instructions before you use the device.



Risk of injury!  
Make sure that no one is within the danger zone of the device.  
Objects may be ejected. The danger zone extends for at least 15 metres.



The rapidly rotating tool can cause life-threatening injuries or significant damage! Pay special attention to keeping your hands and feet away from the tool when the device has been put into operation.



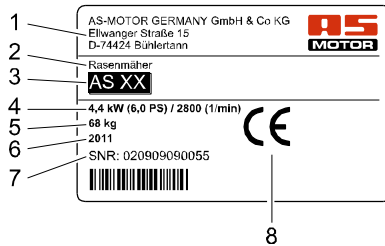
Prior to any repair and maintenance work, pull off the spark plug connector.



Noise is causing health problems. Use personal ear protection to avoid hearing damage.

## Type plate

The type plate on the device provides you with information on the device type and the technical data.



- 1 Name and address of the manufacturer
- 2 Device designation
- 3 Type designation
- 4 Rates power output in kW / engine speed
- 5 Weight
- 6 Year of manufacture
- 7 Serial number
- 8 CE marking

## Safety instructions

### Get informed!

For your safety, read these operating instructions with care. Familiarize yourself with the control elements and the proper use of the device. Share these operating instructions with other users of the device.

Before you use the device for the first time, let the dealer instruct you regarding safe use.

Get familiar with the device in a wide, open and flat terrain first.

When working on or adjacent to public roads, observe the local regulations, if necessary.

### User restrictions and hours of operation

Never allow children or persons who are not familiar with the operating instructions to use the device. Persons under 18 years of age may operate the device only under proper supervision. Local regulations determine the minimum age of the operator and the operating times.

Unsuitable for operation of the device are persons who

- are under the influence of alcohol, drugs or reaction retarding medicines.
- have physical and mental/emotional impairments.
- are tired or sick.



People fitted with pace makers are not allowed to touch any current carrying parts of the ignition system.

## Safe handling of fuel



### Danger!

Fuel is toxic and highly inflammable.



Danger of fire and explosion!

Keep the fuel away from ignition sources and do not smoke while handling the device.

Do not inhale fuel vapours; they are dangerous to your health.



Use gloves and avoid skin contact with the fuel.

Fuel up outdoors only when the engine is cool and not running. Use a filler or funnel.

Do not spill any fuel and do not let the fuel get into the canalisation or ground water.

If you spilled fuel, do not start the device until the fuel vapours have evaporated (wipe dry). Move the device away from the area where the fuel was spilled.

Always close the tank cap securely and do not open it while the engine is running or the device is still hot.

Drain the fuel tank only when outdoors. Use a suitable container or run the tank empty.

Keep the fuel away from children and store it in a suitable container in a dark, cool, and dry location.

Never park the device with fuel in the tank inside a building where fuel vapours could come in contact with open fire or sparks.

Immediately replace a damaged fuel tank or tank cap (authorised dealership).

### First aid

When swallowing fuel or inhaling fuel vapours, do not force vomiting and immediately consult a doctor.

In case of skin contact, immediately wash with water and soap. Change your soiled clothing as soon as you can.

### **Measures in case of a fire**

In case of a fire, use foam, dry powder extinguisher, or carbon dioxide (CO<sub>2</sub>). Never douse with water!

### **Check the device prior to use**

---

Prior to use, check the brushes, drive and fastening parts for proper working condition and firm seating by visual inspection.

Never use the device with defective or missing covers, brush strip, side and rear flap, protection skirt, or dirt collecting bag.

Do not remove, change or override any safety devices or control elements.

Observe the maintenance instructions and replace damaged or worn parts immediately.

Have an authorised service centre check the device if the brushes do not stop within 3 seconds after being switched off.

### **Use caution during operation**

---

Do not start the engine

- if fuel was spilled.
- in closed or poorly ventilated rooms (danger of poisoning!).
- if there are other persons nearby.

Only start the device when your feet are positioned at a safe distance from the brushes.

During startup of the engine, do not tilt the device.

Do not touch the engine or the silencer. They become very hot during operation and you can get burned. Resulting unintentional movements constitute an additional injury hazard.

Switch off the engine and wait until the brushes come to a standstill

- before you tilt or transport the device.
- if you step away from the device, even for just a short time.

- when you drive on areas not to be worked on.
- before you refuel.

Switch off the engine, wait until the brushes come to a standstill, and pull off the spark plug connector,

- before you clean or check the device or carry out work at the device.
- before you unblock and unclog the discharge area.

### **Prior to brushing**

---

#### **Personal protective measures**



During brushing, always wear safety shoes with good grip, long trousers, and gloves. Do not brush with open sandals or while shoeless.



Noise is causing health problems. Use personal ear protection to avoid hearing damage. Wear safety glasses during work.



In case of high dust development, wear a dust mask.

Ask your specialised dealer about suitable protective equipment.

#### **Preparing the work area**

Check the area to be brushed carefully prior to starting work. Remove all rocks, sticks, wires, or other objects that can be propelled away from the device.

## Use caution during brushing

### Risk of injury

Stay within shouting distance to other people who can help you in case of an emergency.



#### **Danger!**

Risk of injury caused by thrown out objects.

Never brush while persons, children, pets, or property are in the vicinity.



The danger zone extends for at least 15 metres.

The area in front of and next to the device is especially dangerous.

Keep your hands and feet away from the rotating parts. Keep a distance to the ejection area while working with the device.

Only work during daylight or with adequate artificial lighting. Never work in the event of uncertain weather conditions and risk of lightning.

Be extremely cautious when turning the device round or pulling it toward you and when moving in reverse.

Always walk slowly!

Never lift or carry the device when the engine is running.

When the device is used over a longer period of time, vibrations can cause disturbances in the blood supply of the hands. A generally accepted usage time cannot be determined. Use gloves.

Take breaks on time.

Have an authorised service centre check the device

- if the brushes or brush strips hit an object.
- if the device starts to vibrate unusually severely.

### Caution at steep slopes

Devices fitted with four stroke engines may only be operated on less than 20° slope. Otherwise, the four stroke engine can be damaged due to insufficient oil lubrication.



When working at steep slopes, there is a risk of slipping and tilting!

- Only brush on steep slopes when safe operation is assured.
- Do not brush on excessively steep slopes.
- Always brush in horizontal direction, never up- or downwards.
- Sure footing is essential for your safety, always wear skid proof safety shoes.
- Be extremely careful when changing the direction.

The device can roll away when you mow downhill. Put the device down on even surfaces only and prevent inadvertent rolling.

### Fire hazard



#### **Danger!**

The brushes produce sparks when they brush against rocks.

There is a fire and explosion hazard.

Never brush in potentially explosive areas.

- Moisten the easily inflammable material before you brush over it.
- Carry a sufficient amount a suitable extinguishing agent.
- If side inclination is too great, fuel may leak from the carburetor or the tank. This poses a fire hazard!
- Watch the area you just worked on also after the brushing is completed to make sure that no fire breaks out.

To avoid risk of fire, keep the following components free of dirt, grass, hay, leaking oil, grease, etc:

- Engine
- Silencer (manifold, guard, clearances)

- Area around the fuel tank

## **When work is completed**

---

After each brushing, close the fuel valve.

Prior to leaving the device, wait until the brushes come to a standstill and pull off the spark plug connector.

After switching it off, let the device cool down for at least 20 minutes before you store it in a dry, closed, sufficiently ventilated room.

Never store the device when there is fuel in the tank inside a building where fuel vapours might come into contact with open fire or sparks.

## **Use caution during maintenance and repair**

---

Only carry out maintenance work as described in these operating instructions. Have an authorised service centre perform all other work.

Only use the brushes and spare parts authorized by "AS-Motor Germany". Unauthorized

brushes and spare parts can cause severe injuries.

Prior to all maintenance work, wait until the brushes come to a standstill and pull off the spark plug connector.

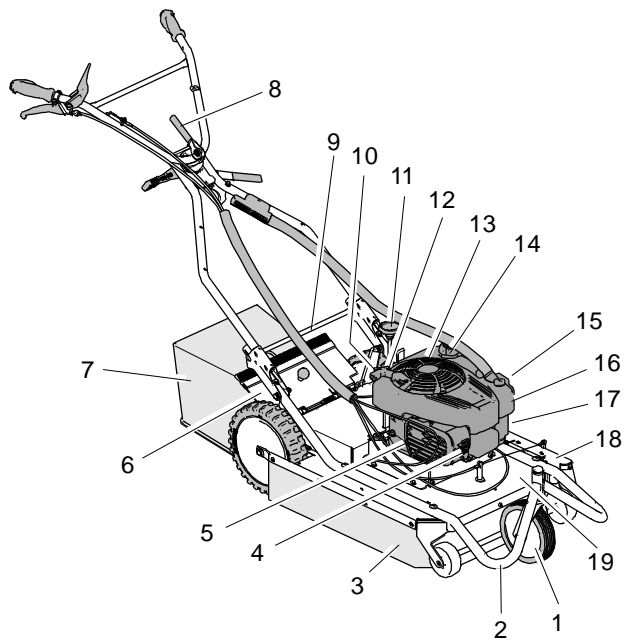
We would like to explicitly point out that, according to the product liability law, we cannot be made responsible for damages caused by our devices if

- worn or damaged parts were not repaired on time.
- if they were caused by improper repair.
- if, in case of a part replacement, other parts than our original components or components approved by us have been used.
- repair has not been carried out by an authorised service centre.

The same applies to spare parts and accessories.



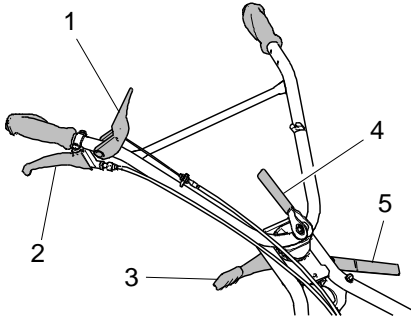
## Device description



- 1 Steerable front wheel
- 2 Protection bow
- 3 Protection skirt
- 4 Spark plug connector
- 5 Silencer
- 6 Rear flap
- 7 Collection bag
- 8 Lever for lateral adjustment of handle-bar
- 9 Clamping lever to fasten bar
- 10 Oil filler neck
- 11 Adjustment of contact pressure of brushes
- 12 Starter grip
- 13 Ventilation grid
- 14 Tank filler spout
- 15 Fuel valve
- 16 Air filter

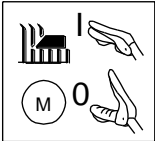
- 17 Type plate
- 18 Side flap
- 19 Cover

## Control elements



### Engine brake bar (1)

The engine brake bar is a protective device. When you release the bar, the engine is shut off immediately, the brushes come to a standstill within 3 seconds.



Brushes/engine on (I):  
Press the bar towards the handlebar and continue to hold.

Brushes/engine off (0):  
Release the bar

### Drive lever (2)

With the drive lever, you switch the drive on and off.



Drive on (I):  
Press the lever towards the handlebar and continue to hold.

Drive off (0):  
Release the lever.

### Vario lever (3)

With the vario lever, you can continuously adjust the speed of the device while the engine is running.

MIN: slow

MAX: fast

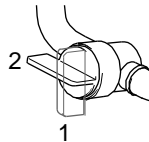
### Lever for lateral adjustment of handlebar (4)

1. Release the eccentric tension lever.
2. Attention: Do not crush the Bowden cables when pivoting the handlebar. Swivel the handlebar to the side to the desired position.
3. Clamp the handlebar with the eccentric tension lever.

### Lever side flap (5)

You require the side flap for brushing near a pavement or wall. Pull the lever for the side flap towards you to open the side flap.

### Fuel valve



- 1: Closed
- 2: Open

## Assembly

### Scope of delivery

---

The device is delivered in a carton.

The scope of delivery includes:

- The device.
- Dirt collecting bag.
- These operating instructions.
- Warranty card.
- Tool bag.
- A set of spare brushes.
- Operating instructions of the engine manufacturer.

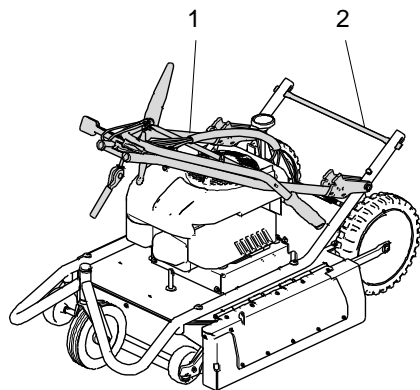
### Unpacking

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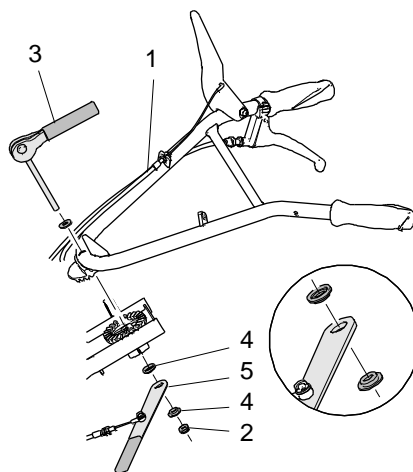
1. Remove the loose parts (dirt collecting bag, box inserts) from the box.
2. Cut open the front side of the box.
3. Push the device out of the box.

### Guide bar and handlebar

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1. Flip the guide bar (1) backwards and engage it with the bar fixing (2).

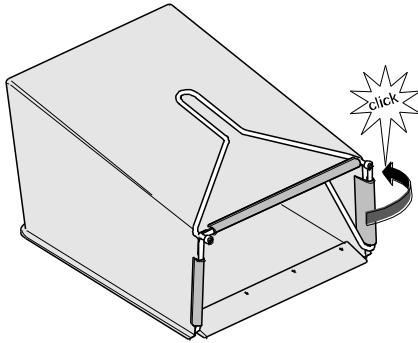
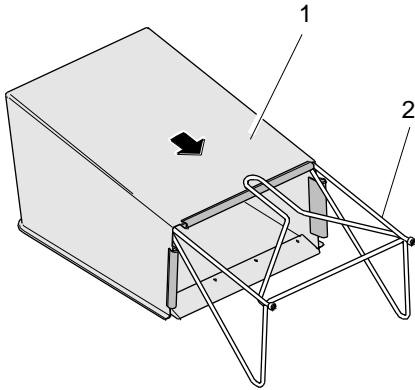


**Attention:** Do not crush the Bowden cables (1) when fixing the handlebar.

1. Slacken the hexagonal nut (2) at the eccentric lever (3) and remove the hexagonal nut and the two lever bearings (4).
2. Apply the handlebar to the bar.
3. Push on a lever bearing, the slide flap lever (5) and the second lever bearing. Make sure that the collars of both lever bearings point to the side flap lever.
4. Turn the hexagonal nut (2) until the eccentric lever can be tensioned with regular force and is positioned parallel to the bar.
5. Clamp the handlebar with the eccentric tension lever

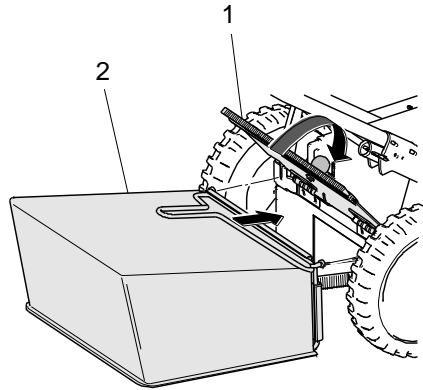
## Dirt collecting bag

### Assembling the dirt collecting bag



1. Pull the dirt collecting bag (1) over the frame (2).
2. Fasten the dirt collecting bag with plastic profiles to the frame.

### Attaching the dirt collecting bag



1. Switch off the brushes and wait until the brushes come to a standstill.
2. Lift up the rear flap (1).
3. Insert the dirt collecting bag (2) into the recesses.
4. Lower the rear flap onto the dirt collecting bag.

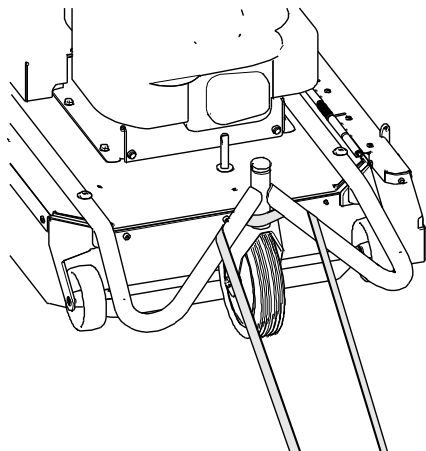
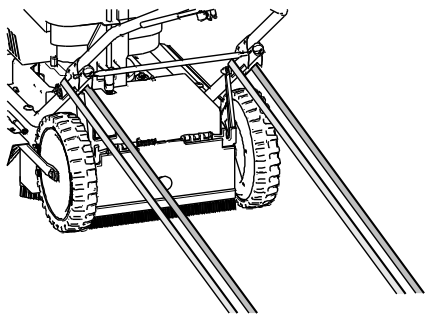
## Transport

Switch off the engine and wait until the brushes come to a stop before you lift the device. It takes two persons to safely lift the device.

Prior to each transport, let the device cool down for at least 20 minutes. Close the fuel valve.

For transport, you can fold up the handlebar and the guide bar.

When transporting by vehicle, secure the device against rolling, sliding, tilting, and fuel and oil leakage.



Use tension belts to secure the device.

**Beware:** To avoid damage to the device, fasten the tension belts exclusively as shown in the illustration. Do not overtighten the tension belts.

## Information on brushing

Prior to brushing, check the device for completeness, proper function, and cleanliness. A dirty ventilation grid causes overheating of the engine which can result in engine damage. A dirty protective grid at the silencer poses a fire hazard.

During brushing, wires can be left behind. Remove these wires after the work is completed. Brush only areas where remaining wires do not pose a hazard.

Performance depends mainly on the type and degree of contamination.

The ideal engine speed is fixed.

If the engine speed drops significantly during removal of thick growth, we recommend:

- Reduce the driving speed.
- Pull back the device and brush over the area for a second time.
- Reduce the brush pressure and brush over the area for a second time.

If the engine speed drops significantly during working on uneven surfaces, we recommend:

- Reduce the brush pressure.
- Brush the area, if possible, for the second time, in a different direction.

Do not move over edges or steps when the engine is running.

To prevent excessive dust formation, operate the device preferably when weather conditions are humid. If this is not possible, wear a dust mask or sprinkle some water on the area.

To make sure that weeds and dirt are ejected without clogging, we recommend to brush only while moving forward.

## Prior to starting

### Fuel

As fuel, use unleaded petrol (see operating instructions of the engine manufacturer).

You can use E10 petrol. Do not store E10 petrol longer than 30 days.

## Tanking up

---



### Danger!

Fuel is ignited by hot engine parts. Prior to filling up, switch off the engine and wait for at least 20 minutes until the engine has cooled down. Observe the safety instructions regarding the fuel!

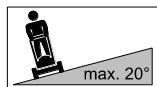
### Filling in the fuel:

1. For filling, use a canister with a filler spout or use as funnel.
2. Open the canister carefully so that the existing overpressure is discharged slowly and no fuel spurts out.
3. Open the tank cap carefully so that the existing overpressure is discharged slowly and no fuel spurts out.
4. Fill the fuel tank.
5. Screw the tank cap on tightly.

## Checking the engine oil level

---

**Attention!** Prior to each use, check the engine oil level (see operating instructions of the engine manufacturer).



To ensure sufficient oil supply for the four stroke engine and to avoid resulting engine damage, the device may only be used on slopes up to 20°.

## Starting



### Danger!

During startup, there is a risk of injury caused by the rotating brushes.

Make sure that no one is within the danger zone of the brushes. Do not tip the device over to one side during startup.



### Danger!

If after startup the carburetor does not close properly, fuel will overflow and a fire hazard occurs.

Close the fuel valve and contact an authorised service centre.

## Starting the device

---

1. Place the device onto a flat surface, not in high grass.
2. Open the fuel valve.
3. Plug on the spark plug connector.
4. Actuate and continue to hold the engine brake bar.
5. Pull the starter point slowly out until you feel resistance then pull out quickly – engine starts to run.
6. Let the starter rope retract slowly.

## Adjusting the contact pressure of the brushes



### Caution!

During adjustment of the brushes, damage to the ground can occur.

Find a sturdy area for these adjustment operation.

The brush pressure can only be assessed while the engine is running.

Set the brushes only so low that they barely touch the ground.

The cleaning performance increases when the brush pressure increases, especially for hollows and tough growth.

**Danger!** If brush pressure is too high:

- The surface of the area to be worked on can be damaged.
- The brushes wear excessively.
- Parts of the area to be worked on can become loose and can be ejected or damage the device.

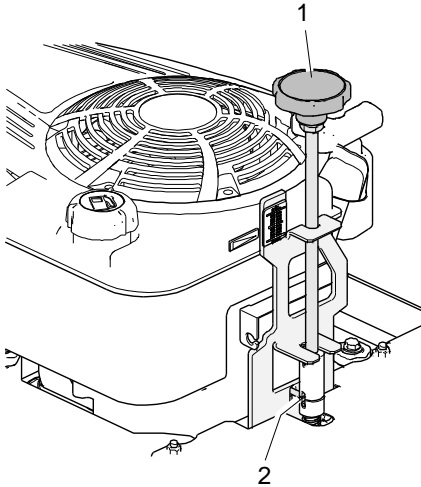
- Brush wires can break and be ejected or remain on the area to be worked on.

You know that the brush pressure is too high when

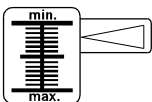
- strong formation of sparks occurs
- engine speed drops considerably
- the engine cuts off repeatedly

The time until the removed weed grows back is hardly affected by the cutting height; the brush wear, however, is significantly affected.

## Adjusting pressure of brushes



1. Place the device on a sturdy area.
2. Start the device.
3. Press the central lever downward using the star grip (1) into the drive slot (2).
4. Turn the star grip to adjust the height of the brushes and thus the contact pressure. The entire engine with the brushes is moved up or down.
5. Test the setting on a test area.



The currently set height and the adjustment range is displayed on the scale.

## Driving



### Caution!

Unbalance can cause damage to the device within a short time. Immediately switch off the engine in case of strong vibrations or noise generation.



### Danger!

Risk of injury caused by tripping or sliding while moving the mower backwards and turning it round. Make sure that the area is clear of objects and watch for safe footing.

## Driving

Immediately switch off the brushes in case of a dangerous situation by releasing the engine brake lever.

### Drive on:

1. Press the drive lever towards the handlebar – device is running.

### Drive off:

1. Release the drive lever.

### Adjusting speed:

The driving speed can be continuously adjusted with the vario lever.

Adjust the driving speed only when the engine is running.

## Turning

### Turning round on an even surface:

1. Switch off the drive.
2. Turn the device to the desired side.
3. Switch the drive back on.

### Turning round on a sloping area:

1. Keep the drive switched on.
2. Turn the device upslope.
3. Hold back the handlebar and the inner wheel.

The drive prevents sliding and supports the turn manoeuvre.

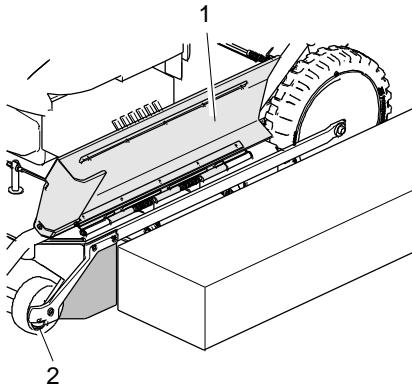
## Brushing at a kerb or wall



### Danger!

When you open the side flap, objects can be ejected.

Make sure that no persons, pets, or property are within the danger zone.



1. Move up to the area to be worked on as closely as possible.
2. Make sure that no persons, pets, or property are within the danger zone.
3. Lift up the side flap (1) using the side flap lever.
4. With the left side of the device, move up closely to the kerb or wall.
5. Release the side flap lever to close the side flap and to avoid the danger of objects being ejected.
6. The grinding protection (2) serves as guide along the kerb or wall.

## Switching off and parking



### Caution!

On a slope, the device can roll away.

Put the device on even ground only or secure it against rolling away.

1. Release the drive lever.
2. Release the engine brake lever.
3. Wait for the engine to stop completely before you step away from the device.
4. Close the fuel valve.
5. Pull off the plug connector.



## Maintenance and cleaning

Regular maintenance keeps your device ready for use.

If you do not observe the maintenance notices, faults may occur that are not covered by the

warranty. Operational safety is endangered as well.

Contact your authorised service centre for checkup if you detect problems during maintenance.

Component	Action	Maintenance interval	
		A	B
Device	Check for safe working condition (basic inspection).	■	▲
	Clean.	■	
	Customer service.		▲
Fuel	Check fuel level.	■	
	Is the tank cap closed?	■	
Tank, fuel valve, and fuel line	Check parts for leaks and check for good condition.	■	▲
Carburetor	Does the carburetor close again after starting?	■	▲
Ventilation grid	Clean.	■	▲
Engine cooling	Clean.		▲
Spark plug	Check/replace.		▲
Air filter	Maintain.	■	■▲
Brushes and fastening components	Check for wear and damage. See chapter Checking the brushes.	■	▲
Brushes	Change.	■	▲
Motor brake	Do the brushes stop in 3 seconds?	□	▲
V-belt	Are the belts tensioned correctly, without fissures, and in good condition?		▲
Bowden cables	Check for proper function and ease of movement.	■	▲
Chassis and impact protection	Check for rust and fissures and check the welding seams.	■	▲
	Are all protective devices and covers in place, fastened correctly and properly functioning?	■	▲

Label	Condition of the labels.	■	▲
Engine	See operating instructions of the engine manufacturer.	■	▲
	Check oil level (see operating instructions of the engine manufacturer).	■	▲
	Oil change.		▲
Flammable material	Remove easily flammable debris from the engine and the device.	■	▲
Tyres	Check tyres and, if necessary, the tyre pressure.	■	▲

A Before and after each use.

B Annually or every 50 h.

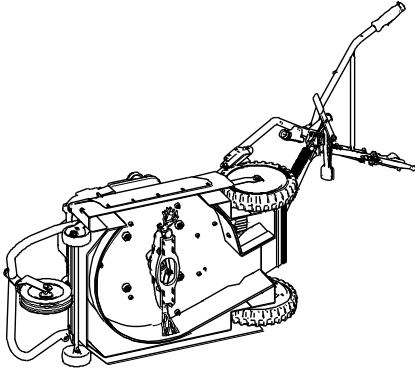
■ By the user when the engine is not running.

□ By the user when the engine is running.

▲ By the authorised service centre.

## Preparations

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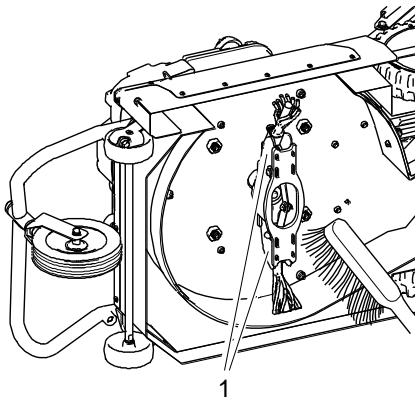


### Prior to all maintenance and cleaning work:

1. Let the device cool down for at least 20 minutes.
2. Pull off the spark plug connector.
3. Close the fuel valve.
4. Release the guide bar by pulling the tie rod and flip the guide bar into a vertical position (do not damage the Bowden cables).
5. Tilt the device to the right side according to the illustration.

## Cleaning the device

---



Stubborn residual dirt are harmful to the ejection and affect the brushing result. To ensure sufficient engine cooling, also keep the engine cover, ventilation grid, and the engine clean.

Keep the brush holders (1) especially clean. You must be able to swivel them easily otherwise there is a risk of unbalance.

**Fire hazard!** Pay special attention so that components at the silencer are clean.

For cleaning use a hand brush. Remove stubborn soiling with a wooden or plastic spatula. Clean the outer housing parts with a cloth.

Do not rinse off the device with a water jet or high pressure cleaner! Do not use aggressive cleaning agents.

### Cleaning the dirt collecting bag

After brushing, clean the dirt collecting bag thoroughly with water. The fabric is to stay air permeable. Residue and dirt clog the fabric and thus worsens the collecting performance.

## Checking the brushes

---



### Caution!

Unbalance of the brush system leads to destruction of the engine bearing and device.

Never operate the device in case of unbalance of the brush system.

Check the brushes at regular intervals, prior to each use and when you detect noticeable changes.

Thrown wires or brushes can cause severe injuries.

Strong noise development or vibrations indicate unbalance at the brush system. Unbalance can be caused by one-sided wear of the brushes or improperly used brushes.

A change of the brushes is required

- when the wire bristles do not touch and clean the floor any longer despite higher contact pressure.
- when there is an unbalance.
- when the brushes are worn unevenly.

### Checking the engine brake

Check the engine brake for proper function by switching off the engine. The brushes must

stand still within less than 3 seconds. Contact an authorised service centre if this is not the case.

## Changing the brushes



### Caution!

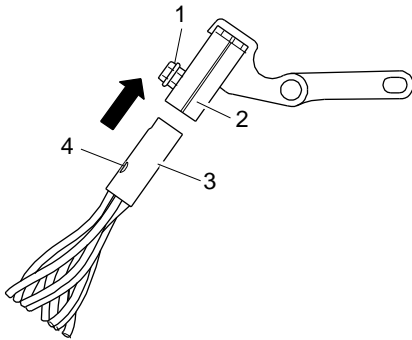
Unbalance of the brush system leads to destruction of the engine bearing and device.

Observe the following notices.

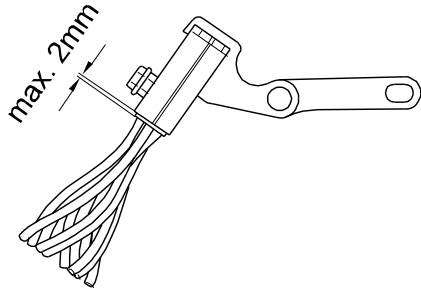
- Change the brushes only in pairs.
- For replacement of the brushes use only new brushes, never used ones.
- Always push the brushes all the way into the brush holder.
- If the brushes cannot be inserted easily into the brush holder, contact an authorised service centre.



Use working gloves for changing the brushes.



1. Slacken the brush holding screw(1) at the top side of the brush holder (2).
2. Pull the brush (3) out of the brush holder.
3. Push the new brushes all the way into the brush holder. If the brush is inserted correctly, the brush holding screw is positioned exactly over the recess (4) at the brush.



1. Retighten the brush holding screw with a torque of 20-25 Nm.
2. Change the second brush in the same manner.
3. Set the brush height to the highest position.

Only use original AS brushes with the spare part number G07325015 (E09751). Original AS brushes are engraved like this:



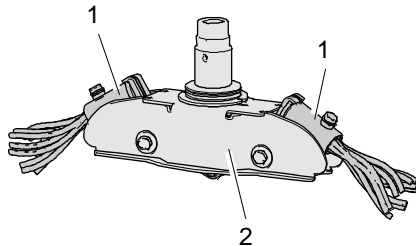
## Checking the brush strip and the brush holder



### Danger!

Improperly maintained or mounted brush strips or holders can pose a high risk of injuries.

Work at these parts may only be carried out by an authorised service centre.



Check the brush strip (2) and brush holder (1) regularly and prior to each use and when you detect noticeable changes regarding cracks

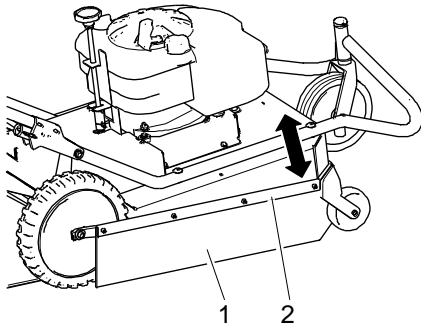
and damages. If there are damages, immediately contact your service centre.

The brush holders must be moved easily (remove dirt).

## Basic inspection

To ensure proper working order of the device, regularly check all nuts, bolts, screws, fuel line connections, air filters, etc. for firm seating. Check the ignition cable and the spark plug connectors for damages.

Immediately replace any damaged or used parts, especially covers, brush strip, side and rear cover, protection skirt, dirt collecting bag, silencer, or fuel tank (authorised service centre).



Check that the protection skirt frame (2) can be moved easily. When you tilt the device backwards, the protection skirt (1) must continue to touch the ground.

Check all parts that contain fluids for leaks and proper condition. These can be: Fuel tank, fuel valve, fuel lines, carburetor, engine, gears, battery, hydraulic system.

In case of leaks, contact an authorised service centre.

## Maintaining the engine



### Danger!

If the speed of rotation is set too high, objects can be ejected. The engine can be damaged and noise pollution increases.

Do not change the basic setting of the carburetor or the speed control.

The operating instructions of the engine are prepared by the engine manufacturer. They contain the maintenance instructions and the warranty conditions for the engine. If warranty work for the engine is required, please contact your authorised service centre or the nearest authorised engine dealer.

To ensure a long service life of the engine, sufficient engine cooling is required.

Keep the

- engine cover (ventilation grid),
  - silencer (protective grid) and
  - cooling fins of the engine
- clean at all times.

## Checking the engine oil level

Never allow the oil level to be too low otherwise the engine can be damaged. Never fill in too much oil. Otherwise, there is the risk that the oil enters and destroys the air filter.

For this, observe the attached operating instructions of the engine.

## Checking the spark plugs



### Danger!

The ignition system generates an electromagnetic field.

Wearers of pacemakers must not work on live parts.

## Maintaining the air filter

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### **Danger!**

Cleaning agents pose a fire and explosion hazard.

Never clean the air filter with flammable solvents.

Make sure that the air filter is always clean. A dirty air filter reduces the engine performance and leads to increased engine wear and fuel consumption. Irrespective of the operating hours, change the filter insert at least once a year. Do not operate the engine without air filter.

The foam rubber prefilter picks up the coarse dust. It is possible, in case of strong dust formation, that it has to be cleaned or changed already again after 10 minutes. We recommend to carry along some cleaned or new prefilter in reserve and to replace them at short intervals.

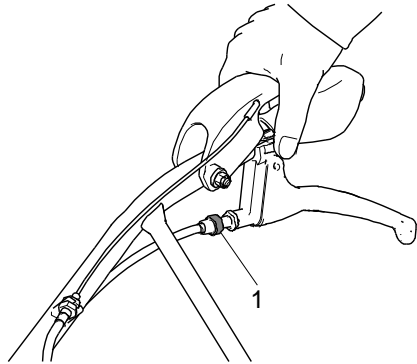
For this, observe the attached operating instructions of the engine.

## Checking the drive

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1. Put the device on a non-slip surface (e.g. concrete or asphalt).
2. Switch off the engine.
3. Set the switching lever to a forward gear.
4. Actuate the drive lever.
5. Try to pull the device backwards.

If the rear wheels lock, the drive is correctly adjusted. If you can pull the device, the drive must be re-adjusted.



### **Re-adjusting the drive**

Turn the adjusting screw (1) at the drive so that the wheels lock, while the drive is actuated, when the device is pulled. If there is no improvement after the adjustment, have the device checked by an authorised service centre.

## Storage

### **Storing the device**

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Keep the device in a closed, dry, and well ventilated room and out of reach of children. Always eliminate all problems of the device before you store it so that the device is always in a safe-to-operate state. Let the engine cool down before you store the device in closed rooms.

Also observe the notices on storage in the attached operating instructions by the engine manufacturer.

### **Longer storage**

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1. Observe the safety instructions regarding the handling of fuel.
2. Draining fuel tank: Put a piece of a tube on the fuel valve and fill the fuel in an adequate fuel container.
3. Emptying carburetor: Start the engine and let it run until it stops on its own.
4. Clean the device thoroughly.

5. Touch up defects in painting (for spray paint, see Accessories).
6. Performing corrosion protection on the engine:
  - Unscrew the spark plug.
  - Fill a tablespoon of engine oil into the spark plug opening.
  - Pull the starter rope slowly until you get resistance (oil distribution in the cylinder).
  - Re-insert the spark plug and screw in fully.
  - Do not fit the spark plug connector!

In autumn, have your device checked by an authorised service centre!

Also observe the notices on storage in the attached operating instructions by the engine manufacturer.

## Restarting

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If you want to start the device after a longer storage, carry out the tasks described in chapter Maintenance.

## Spare parts

The reliable and safe operation of the device also depends on the quality of the spare parts used. Only use original spare parts and accessories that were approved by “AS-Motor Germany”. When foreign parts are installed, the warranty and guarantee shall be void for the foreign part and for the device and for any resulting damage.

Inform your authorised service centre about the device type and serial number of your devices when you order spare parts.

## Wear parts

Some parts are wear parts. They wear during use and must be replaced. The warranty does not cover the following parts:

Brush, brush strip, sliding disc, disc spring, cables, V-belt, starter rope, grinding protection, protection skirt, dirt collecting bag, wheels.

## Disposal

Depending on the natural cover and soiling of the areas to be cleaned, consider the regulations for disposal of litter. For this, contact your local local/municipal administration.

Dispose of waste oil and fuel in accordance with the local regulations or return it to an oil shop.

Packaging, device, and accessories are made of recyclable materials and must be disposed of accordingly.

## Warranty

The conditions of the warranty can be found on the reverse side of your warranty card. Send the filled-out warranty card immediately after the purchase of your device to “AS-Motor Germany” or the supplier. Otherwise, the warranty is no longer valid.

Preserve the proof of purchase or the warranty card that was filled out by the vendor.

## Troubleshooting

The following table contains the most frequent problems and their elimination. If more problems occur, contact the closest authorised service centre.

You can find an authorised service centre on our home page [www.as-motor.de](http://www.as-motor.de).

Problem	Possible cause	Remedy
<b>Engine does not start</b>	Engine brake bar is not pressed.	Press the engine brake bar towards the handlebar.
	Fuel valve is closed.	Open fuel valve.
	No fuel is in the tank.	Refill fuel.
	Device was tilted – oil leaked into the air filter.	Replace air filter, unscrew spark plugs and start several times when the fuel valve is closed, dry the spark plugs and screw them back in.
	Engine was flooded due to too many start attempts.	Unscrew spark plugs and start several times when the fuel valve is closed, dry the spark plugs and screw them back in.
	Spark plug connector is pulled off.	Observe the safety instructions! Put spark plug connector back on.
	Air filter is dirty.	Maintain air filter (see also Maintenance and cleaning).
<b>Engine starts badly or runs irregularly</b>	Air filter is dirty.	Maintain air filter (see also Maintenance and cleaning).
	Poor quality, dirty, or old fuel.	Always use fresh fuel.
<b>No drive when drive lever is actuated</b>	Spark plug is sooted, damaged, or incorrect electrode gap.	Clean spark plug and check electrode gap (see also Maintenance and cleaning). Replace spark plug if necessary.
	Variomatic Bowden cable is insufficiently tensioned.	Authorised service centre
	Drive belt is insufficiently tensioned.	Authorised service centre



<b>Brushes do not turn</b>	Replace friction discs.	Authorised service centre.
	Brush strip is loose.	Authorised service centre.
<b>Strong vibrations during operation</b>	Unbalance at the brushes due to uneven wear or incorrect insertion of the brushes.	Immediately replace the brushes or mount correctly (see chapter Maintenance).
	Brush drive shaft is bent due to collisions with foreign objects.	Authorised service centre.
	Engine fastening is loose.	Authorised service centre.
	Brush strip fastening is loose.	Authorised service centre.
<b>Irregular noises</b>	Loose fastening elements.	Authorised service centre.
	Silencer is defective.	Authorised service centre.
<b>Engine is smoking</b>	Air filter is soiled or drenched with oil.	Maintain or replace air filter (see also Maintenance and cleaning).
	Oil level is too high.	Have authorised service centre lower the oil level to the marking.
<b>Engine gets hot</b>	Ventilation grid is dirty.	Clean ventilation grid.
	Oil level in the engine is too low.	Refill engine oil (see operating instructions of the engine manufacturer).
	Cooling fins of the engine are dirty.	Have cooling fins cleaned by authorised service centre.
<b>Discharge channel is jammed</b>	Engine speed is too low despite full power.	Authorised service centre.
<b>The engine does not switch off</b>	Switching off system is defective.	Close the fuel valve. Authorised service centre.

## Accessories

Operating hours counter:

G06927008 E10740

## Technical data

<b>Type</b>	AS 50
<b>Range of application (temperature)</b>	0 – 30 °C For temperatures below 5 °C, observe the engine manufacturer's information regarding the engine oil.
<b>Engine, type</b> Manufacturer Type Cylinder capacity Performance Engine speed	One cylinder four stroke engine Briggs & Stratton Series 850, I/C 190 cm <sup>3</sup> 3,1 kW (4,3 HP) 2800 min <sup>-1</sup>
<b>Cutting device, type</b> Working width Brush height	Brushes 50 cm adjustable
<b>Starting device</b>	Rope start
<b>Drive</b>	Rear wheel drive with Variomat for continuously variable setting of the speed 1.6 -2.5 km/h
<b>Maximum output per unit area</b>	up to approx. 1000 m <sup>2</sup> /h
<b>Measures and weight</b> Transport size with packaging L/W/H Operating dimensions L/W/H Weight	112/65/65cm 192/61/99 cm 70 kg
<b>Capacities</b> Fuel tank Engine oil Dirt collecting bag	1,2 litres approx. 0.65 litres SAE 30 or 10W-30 (see Checking the oil level) approx. 25 litres
<b>Sound level</b> Measured sound level $L_{WA}$ Sound level at working place $L_{pA}$ Measurement uncertainty k	96.0 dB according to DIN EN 836 85 dB according to DIN EN 836 2.5 dB (A)
<b>Vibration emission value</b> Hand-arm-vibrations $a_{h,w}$ Measurement uncertainty U	3,7 m/s <sup>2</sup> according to DIN EN 836 2 m/s <sup>2</sup>



AS-Motor Germany GmbH & Co. KG  
Ellwanger Straße 15  
D-74424 Bühlertann  
www.as-motor.de

## Declaration of conformity

We declare that the weed remover type  
and with the serial number

AS 50  
starting from  
016612030061

in the version we introduced to the market complies  
with all essential health and safety requirements of  
the following EC directives

- 2006/42/EC  
- 2004/108/EC  
- 97/68/EC

### Function:

The device is exclusively intended for cleaning paved  
areas and edges on which moss and weeds grow.

Applied standards:

EN 836 (partially)

### Place where all technical records are filed:

AS-Motor Germany GmbH & Co. KG  
Ellwanger Straße 15  
D-74424 Bühlertann

Bühlertann, January 2015

Eberhard Lange  
Managing director

By Proxy Frank Einsiedler  
Head of development



## Professional technology for gardens and landscapes

Allmäher®	Manoeuvrable meadow mower for extensive green area care. The Allmäher reliably shreds metre-high grass, undergrowth, and weeds.
Ride-on Allmäher®	Ease of use and high area coverage all combined in a compact ride-on mower. Low centre of gravity, optimum weight distribution, and broad wheel base provide you with the best performance on slopes and power reserves.
Rear discharge mower	Professional lawn mower with rear discharge. With wheel drive and infinite speed regulation for exceptional cutting and catching performance in any situation.
Rotary mower	The economic alternative to bar mower. Ideal for fodder production. The grass is not shredded and placed into a pile on the side.
Flail mower	The flail blades are supported movably and avoid rocks and other obstacles and chop the cuttings several times.
Side discharge mower	This solid allrounder has a side discharge, wheel drive, and a housing of 3 mm thick plastic-coated steel.
Mulching mower	Mulching saves both time and money. The mulch stays on the ground and practically disappears into the lawn so that no complex disposal is necessary.
WeedHex	Removes weeds carefully, quickly, and without the use of chemicals: on transport surfaces, walls, curbs, and between interlocking blocks.