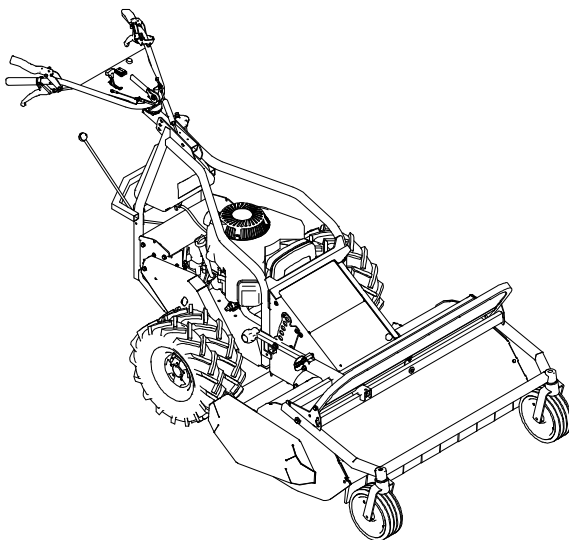




Operator's Manual



Flail Mower

AS 701 SM, AS 901 SM

From serial number: AS 701 SM: 026817110001, AS 901 SM: 026017110001

Issued: 21 Dec 2023, V5.0

en-Translation of the Original Operator's Manual

Notes on the operating manual

Dear customer,

Congratulations on your purchase. You have acquired a reliable quality product of the „AS-Motor“ brand.

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

These operating instructions contain important information to help you avoid hazards and to increase the reliability and the life span of the device.



Read the operating instructions before using the device. Share these operating instructions and the operating instructions of the engine with other users of the device.

Contact

If you have questions about your device, please contact your customer service.

For international partners, please see:
www.as-motor.com.

Device data

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

Serial number (see manufacturer's certificate or type plate):

Engine number:

Date of purchase:

Address of dealer:

Intended use

The device is intended solely for agriculture and forestry applications involving cutting grass or similar plants in well maintained areas mowed at least once per year. Woody plant material must not be more than one year old.

Only use attachments and cutting tools that have been approved by the manufacturer.

Any other use exceeding this purpose is inadmissible.

Observe the information in chapter "Maintenance". Otherwise, operational safety is endangered.

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

The device shall in particular **not** be used:

- to cut hard objects, stones, rubble, or pieces of wood.
- to trim bushes, hedges, and shrubbery.
- to cut plants in balcony boxes or containers or on roofs.
- to clean (vacuum) footpaths.
- as shredder for shredding tree and hedge cuttings.
- as drive unit for work tools and any type of tool sets that are not authorised by the manufacturer.

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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 in the text

1. A numbered text requests you to act or shows a process sequence.
 - ⇒ An indented arrow marks the result of a step.
- ⇒ An arrow that is not indented refers to the result of a sequence of actions.

Notice: An additional piece of information is marked by the work "Notice" written in bold letters.

Warnings

In these operating instructions, warning instructions are marked with signal words. The signal words are used to indicate the following hazards and potential consequences.

Danger

Imminent danger

Indicates an imminently hazardous situation with a **high level of risk** that, if not avoided, **will** result in minor or moderate injury.

Warning

Hazardous situation

Indicates a possibly hazardous situation with a **medium level of risk** that, if not avoided, **could** result in minor or moderate injury.

Caution

Hazardous situation

Indicates a possibly hazardous situation with a **low level of risk** that, if not avoided, **could** result in minor or moderate injury.

Notice

Danger of property damage

Indicates a possible risk of damage of the device and its surroundings.

Signs on the device

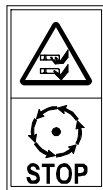
The following signs are attached to the device to provide a reminder that during use of the device, you will have to be careful and attentive:



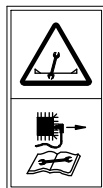
These operating instructions contain important information to help you avoid hazards and to increase the reliability and the life span of the device.
Read the operator's manual before using the device.



Risk of injury!
Make sure that no one is within the danger zone of the device.
Objects may be ejected.



The quickly rotating blade can cause life threatening injuries or immense property damage! Be especially careful to keep your hands and feet away from the blade when the device is put into operation.



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



Clean the ventilation grid! The cooling air of the motor is sucked in through the ventilation grid of the engine cover. Always keep the entire surface open and free!



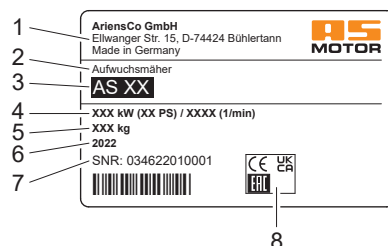
Noise is causing health problems. Use personal ear protection to avoid hearing damage.



Do not clean the device with water spray or high-pressure cleaner!

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 Conformity marking

Safety instructions

Get informed!

For your safety, read these operating instructions carefully. Familiarize yourself with the control elements and the proper use of the device. Failure to observe the safety information and instructions can result in serious injuries or fatal accidents. Share these operating instructions with other users of the device.

Before starting to work: Have skilled personnel show you the safe handling of the device.

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

User restrictions and hours of operation

Never allow children or persons who are not familiar with the operator's manual 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 delaying medications.
- 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

Fuel is toxic and highly flammable. There is a burn and explosion hazard!

Keep fuel away from ignition sources and do not smoke during handling.

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

Use gloves and avoid skin contact with the fuel.

Always refuel outdoors when the engine is cold and stopped completely. When doing so, always use a filler spout or a funnel.

Do not spill any fuel or do not let fuel enter canalisation or drain away.

When fuel has overflowed, do not start the device until the fuel vapours have evaporated (wipe dry). Move the device away from the spilled fuel.

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

Empty the fuel only when outdoors. Use the approved container for this or run the fuel tank empty.

Store the fuel away from children and keep it in a suitable container in a dark, cool and dry place.

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.

Immediately replace the fuel tank or tank cap if they are damaged (authorised service centre).

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 (CO₂). Never douse with water!

Check the device prior to use

To ensure safe operation and to avoid hazards, injuries and damage, check the device before each use.

Prior to each use, check the blade, protection skirt, covers, drive and fastening parts, cables and cable connections for proper working condition and firm seating by visual inspection.

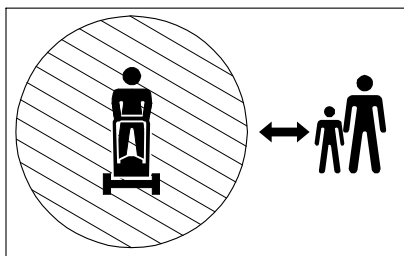
Never use the device with defective or missing covers or protection skirt or bar.

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

Observe the maintenance instructions (see chapter "Maintenance").

Have an authorised service centre check your device if the blade does not stop within 7 seconds.

Danger area



Within the danger area of the device, there is a risk of injury.

The size of the danger zone depends on the conditions of the mowing area.

Stones, trash or other objects on the mowing surface can be caught by the blade and thrown out, causing serious injury. The area in front of the device is especially dangerous. On uneven surfaces, the blade can touch the ground and catch hidden objects. Never work when persons, children, or pets are in the danger area.

There is a risk of injury from the rotating blade. Keep your hands and feet away from moving and rotating parts.

On slopes, the device can topple over and slide towards persons, trap them or roll over them.

There is a risk of property damage in the danger area around the device. Make sure that no vehicles, buildings or other material goods are damaged in the danger area.

Working near the road requires special care.

- Pay attention to traffic when working close to roads. Do not expose yourself to any risk from road traffic.
- Make sure that the road is outside the danger area and that you do not endanger any road users.

Make sure

- that people are never positioned in the direction of travel in front of the device.
- that nobody is positioned on the slope below the device.
- that you have a complete overview of the danger area at all times.

Use caution during operation

Danger of poisoning due to exhaust gases

Engine exhaust fumes contain carbon monoxide that can lead to serious health problems or death. Do not operate the engine in a closed room, even when all doors and windows are open and the room seems to be sufficiently ventilated.

Operate the engine only after you have moved the device to the outdoors.

Observe the information in the operator's manual of the engine manufacturer.

Danger of injury during motor start

Do not start the engine

- if fuel was spilled.
- if there are other persons nearby.

Start the device only when your feet are at a safe distance to the blade.

When the engine is started, do not tilt the device.

Risk of injury when the blade is running

Switch off the blade and wait until the blade stops

- when you drive on surfaces other than grass.

Risk of injury when the motor is running

Switch off the engine and wait until the blade stops

- before you tilt or transport the device.
- before you step away from the device, even for just a short time.
- before you adjust the cutting height.
- before you refuel.

Switch off the engine and wait until the blade comes to a standstill, and pull off the spark plug connector

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

Risk of burns

Do not touch the engine or the silencer. These parts become very hot during operation and you can get burned. If a jumpy movement occurs, the risk of additional injuries can result.

Prior to mowing

Personal protective measures



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



Wear safety gloves to protect yourself against injuries and vibrations.



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

Ask your specialised dealer about suitable protective equipment.

Preparing the mowing area

Prior to mowing, carefully check the perimeter of the lawn. Remove rocks, pieces of wood, bones, wires, and other objects that could be picked up and thrown out by the device.

Remove live cables from the mowing area. These can be damaged during mowing and cause an electric shock or short circuit.

Use caution when mowing

Risk of injury

Risk of injury caused by ejected objects. Never mow when persons, children, pets or material assets are in the danger area.

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

Make sure that help can be provided in case of an emergency.

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

Be especially carefully when mowing on soft ground, nearby landfills, ditches, dikes and water edges.



Avoid mowing damp grass, there is a sliding risk!

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.

Pay attention to traffic when working close to roads.

Vibrations

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

- when the blade has hit an object.
- if the device starts to vibrate unusually severely.

Fire hazard

Parts of the device can become extremely hot during operation and this may cause fire.

- Carry a sufficient amount of suitable extinguishing media.
- If the device leans too much to the side, fuel can leak from the carburetor or the tank. This presents a fire hazard!
- Observe the device and the mowed area even after operation to make sure that no fire breaks out.

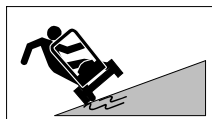
When fuel leaked or was spilled, there is an increased fire hazard.

To prevent a fire hazard, always keep the following components free of dirt, grass, hay, leaking oil, leaking fuel, grease, etc.:

- engine, ventilation grid
- silencer (manifold, protection, spaces)
- battery, cable connections, electric drive units
- area around the fuel tank
- belt drives

Observe the information in the operator's manual of the engine manufacturer.

Caution when mowing slopes



There is a risk of injury when mowing on slopes due to tipping over or sliding.

- Only mow on steep slopes if safe operation is guaranteed.
- Do not mow particularly steep slopes.
- Take appropriate safety measures on steep slopes, e.g. use step irons.
- Always mow across the slope, never up or down.
- Always ensure you have a secure footing and use non-slip safety shoes.
- Be extremely careful when changing direction.
- Only mow when the ground is dry and has good grip.
- Only mow with the swivel wheel locked.

Downhill, the device can roll away. Only place the device on level surfaces or secure it against rolling away.

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

Observe the information regarding the oil pressure switch in chapter “Starting”.

If the device tilts or slips

- Never try to stop a tilting or sliding device. Severe injuries can result.
- Remove leaking fluids (oil, fuel, battery acid) from the device and the floor. Deposit of contaminated soil environment friendly according to the local regulation.
- Undetectable damage may have occurred to the device. In case of malfunctions, there is a risk of injury. Have an authorised service centre check the device.

When work is completed

After mowing, always close the fuel valve.

Prior to leaving the device, wait until the engine comes 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 work as described in these operating instructions. Have an authorised service centre perform all other work.

Only use blades and spare parts approved by the manufacturer. Unauthorized blades and spare parts can cause severe injuries.

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

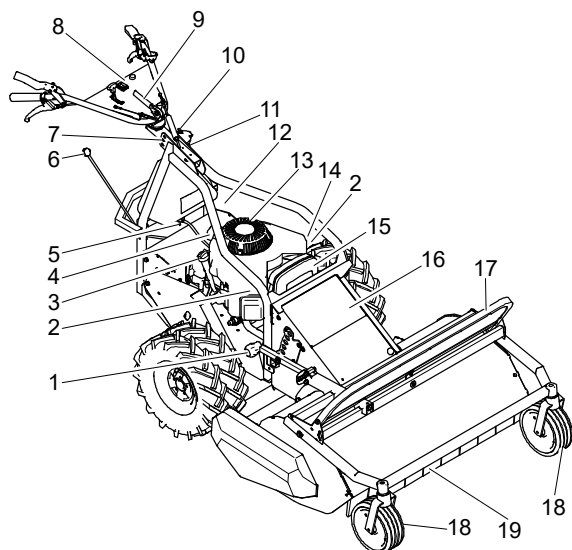
We explicitly point out that, in accordance with the Product Liability Act, we are not liable for damages that were caused by our devices if

- worn or damaged parts were not repaired or replaced on time.
- these damages were caused by improper repair.
- when changing a part, our original parts or parts authorised by us were not used.
- the repair work was not carried out by an authorised service station.

The same applies for spare parts and accessories.

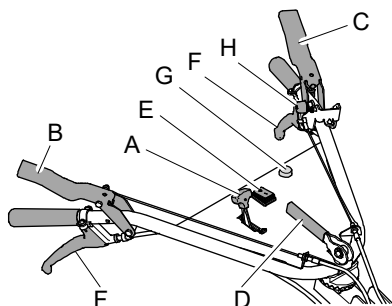
Device description

The illustration shows AS 901 SM



- 1 Cutting height adjustment
- 2 Spark plug connector
(bei AS 901 SM: 2 connectors)
- 3 Oil dipstick
- 4 Starter grip
- 5 Fuel valve
- 6 Switching lever
- 7 Height adjustment of handlebar
- 8 Handlebar console
- 9 Lever for lateral adjustment of
handlebar
- 10 Tank ventilation
- 11 Tank filler spout
- 12 Type plate
- 13 Ventilation grid
- 14 Choke (only AS 901 SM)
- 15 Air filter
- 16 Silencer
- 17 Protection bow
- 18 Steerable front wheel
- 19 Protective flaps

Control elements



Throttle lever (A - AS 901 SM)

With the accelerator lever, you change the engine speed and thus control the engine output.



MAX: Full throttle

MIN: Neutral position

Accelerator lever with choke (A - AS 701 SM)

With the accelerator lever, you can change the engine speed and thus control the engine output.



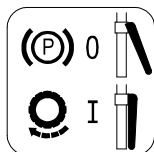
Choke: Choke closed (only for engine start when engine is cold).

MIN: Idling

MAX: Full throttle

Drive lever and parking brake (B)

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

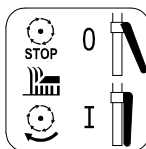


Drive off/ parking brake on (0):
Release the lever.

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

Blade clutch lever (C)

The blade clutch lever is a protective device. When you release the lever, the blade comes to a standstill within 7 seconds.



Disengaging the blade (0):

Release the blade clutch lever and set the acceleration lever to MIN.

Engaging blade (I):

Lift the blade clutch lever, engage the latch knob (H) and push the blade clutch lever towards the handlebar.

Lever for lateral adjustment of handlebar (D)

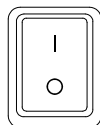
1. Release the eccentric tension lever.
2. Attention: Do not crush the Bowden cables when pivoting the handlebar.
Swivel the handlebar to the side to the desired position.
3. Clamp the handlebar with the eccentric tension lever.

Handlebar height adjustment (7)

Adjust the height of the handlebar using the handlebar height adjustment screw (see chapter "Assembly").

Engine stop switch (E)

Switch the ignition on and off with the engine stop switch. When you switch off the ignition, the engine is switched off.

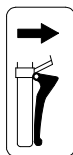


I: ON

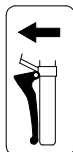
0: OFF

Steering brake lever (F)

You control the driving direction of the device with both steering brake levers.



Swivelling to the right:
Press the right lever towards the handlebar.



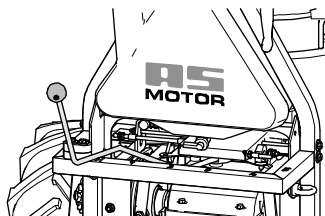
Swivelling to the left:
Press the left lever towards the handlebar.

Start button (G)

Press and hold the start button during the start process (see chapter “Starting”).

Switching lever (6)

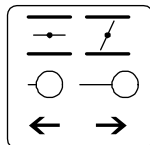
The transmission has 5 forward gears, idle and a reverse gear. For shifting, release the drive lever and shift to the next gear and start again.



- R Reversing
- N Idle speed
- 1-5 Moving forward

Choke (14)

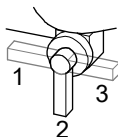
Close the choke during cold start of the engine.



Opening choke:
Push wire ring inwards.

Closing choke:
Pull wire ring outwards.

Fuel valve (5)



- 1: Reserve
- 2: Open
- 3: Closed

Information on mowing

Prior to mowing, check your device for completeness, proper functioning, and cleanliness. A dirty ventilation grid causes overheating of the engine, this can damage the engine. A dirty protective grid on the silencer poses a fire hazard.

Frequent engagement and disengagement of the clutch increases wear of the blade drive belt and the blade brake. Especially in case of high grass, clutch engagement leads to overload.

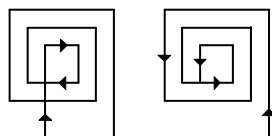
To keep the area well maintained, mow frequently and keep the grass short.

Only mow with a sharp and undamaged blade. Have the blade sharpened and balanced regularly (by authorised service centre).

Do not mow when the grass is wet or when it is raining. The turf may be damaged and there is a danger of slipping!

Turn the device around only in already mown sections. Do not leave the device unattended while the engine is running.

For mowing, always turn the accelerator lever to full throttle to achieve the best mowing performance.



To avoid blockage during the ejection of grass, we recommend, for flat terrain, to proceed according to the mowing patterns. Mulch is shredded into much smaller pieces when you mow the terrain once again in the opposite direction.

If the grass is extremely high, mow twice at different cutting height settings.

On our homepage www.as-motor.com you will find further information, especially on the eco-logically oriented maintenance of green spaces.

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

Warning

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 up with fuel

1. For filling, use a canister with filler spout or a funnel.
2. Open the canister carefully so that existing excess pressure is slowly reduced.
3. Open the tank cap carefully so that existing excess pressure is slowly reduced and no fuel sprays out.
4. Fill the fuel tank.
5. Tightly close the tank cap again.

Checking the engine oil level

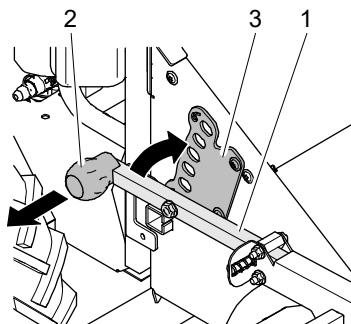
Attention! Prior to each use, check the engine oil level (see operating instructions of the engine manufacturer).

Adjusting cutting height

Adjust the cutting height setting only when the engine is switched off.

Adjust the cutting height setting only when the engine is switched off.

Set the cutting height so that the blade does not touch the ground even in case of terrain unevenness. If the cutting height is set too high, objects can be ejected and the “clean cut appearance” can be destroyed.



The cutting height can be adjusted in 5 steps from 10 mm to 110 mm.

1. Switch off the engine and wait until the blade stops.
2. Pull the adjustment lever (1) on the knob (2) out of the catch (3) and allow it to engage in the desired position.

Starting

Danger

Danger of poisoning due to poisonous exhaust gases.

- Do not operate the engine in closed or insufficiently ventilated rooms.
- Please observe the safety instruction regarding the poisoning risk.

Danger

Danger of electric shock from live cables on the mowing area. Live cables can be damaged during mowing and cause an electric shock or short circuit.

- Make sure that the mowing area is free of live cables.

Warning

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

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

Warning

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 (AS 901 SM)

1. Place the device on even terrain, not in high grass.
2. Close the fuel valve and the tank ventilation.
3. Plug in the plug connector.
4. Set the engine stop switch to “I”.
5. With cold start, close the choke.

6. Turn the accelerator lever to medium engine speed.
7. Press the start button with your left thumb and continue to press it.
8. Pull the starter rope slowly out until you feel resistance and then pull out quickly – engine starts to run.
9. Slowly release the starter rope.
10. Release the start button.
11. Open the choke again.
12. For mowing, set the accelerator lever to the maximum speed.

Starting the device (AS 701 SM)

1. Place the device on even terrain, not in high grass.
2. Close the fuel valve and the tank ventilation.
3. Plug in the plug connector.
4. Set the engine stop switch to "I".
5. Set the accelerator lever during cold start to the position "Choke", otherwise to medium speed.
6. Press the start button with your left thumb and continue to press it.
7. Pull the starter rope slowly out until you feel resistance and then pull out quickly – engine starts to run.
8. Slowly release the starter rope.
9. Release the start button.
10. For mowing, set the accelerator lever to the maximum speed.

Engaging the blade

1. Lift the blade clutch lever.
2. Press the latch knob at the blade clutch lever.
3. Press the blade clutch lever towards the handlebar – the blade starts to move.

Disengaging the blade when moving over paths:

1. Release the blade clutch lever.

Oil pressure switch

The oil pressure switch ensures that the engine is not damaged when the device is used in steep terrain.

The oil pressure switch switches off the engine when damage to the engine may occur due to lack of oil pressure. This may occur when:

- Oil level is too low.
- The device is in too steep a sloping position while in steep terrain.

How steep the gradient for the oil pressure switch to switch off the engine may be depends on the engine type, direction of inclination, and the oil level.

In order to restart the engine, push the device while in idle state to terrain that is less steep. In every case, check the oil level.

Driving

Driving

In case of a hazardous situation, switch off the drive and declutch the blade.

Drive on:

1. Engage the desired gear.
2. Press the drive lever towards the handlebar - device is moving.

Drive off:

1. Release the drive lever.

Adjusting the driving speed:

The driving speed depends on the quantity and thickness of the growth. If the growth is especially high and thick, you can mow at low driving speed only.

1. Release the drive lever.
2. Engage the desired gear.
3. Press the drive lever back towards the handlebar – device is moving.

Reverse gear

Warning

Risk of injury caused by slipping or tripping during moving in reverse or turning.

- ▶ When moving in reverse, always switch off the blade!

Prior to switching on the reverse, make sure that path is free of obstacles. Especially when going over already mowed grass ensure safe footing.

1. Release the drive lever.
2. Disengage the blade.
3. Set the accelerator lever to medium speed.
4. Set the switching lever to reverse (**R**).
5. Press the drive lever towards the handlebar - device moves in reverse.

Steering and turning

Warning

When the steering lever is operated on a slope, the device may roll away or move unexpectedly.

- ▶ Operate the steering lever carefully on slopes.
- ▶ Only operate one steering lever at a time on a slope.
- ▶ Release the steering levers when the device rolls away.

To control the direction of travel, a steering brake is fitted to each rear wheel. The steering brake also works when reversing.

Driving to the right:

- Pull the right steering brake lever. The right wheel is braked.

Driving to the left:

- Pull the left steering brake lever. The left wheel is braked.

Driving straight ahead:

- If both steering brake levers are in the rest position, both wheels turn at the same speed.

Stopping:

- If both steering brake levers are pulled, the device stops.

Turn the device around only in already mown sections.

Pushing

1. Release the drive lever.
2. Put the gear in neutral.
3. Press the drive lever again towards the handlebar – device can be pushed or rolls.
4. To steer, pull the respective steering brake lever only slightly.

Switching off and parking

Warning

On a slope, the device can roll away.

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

1. Release the steering brake lever.
2. Set the acceleration lever to the lowest engine speed.
3. Set the engine stop switch to "0".
4. Wait for the engine to stop before you step away from the device.
5. Close the fuel valve and the tank ventilation.
6. Remove the spark plug connectors.

Transport

Warning

Risk of injury due to the heavy weight of the device. The device can fall over and fall down and cause severe injuries.

► Observe the following notices.

Transport the device by truck or trailer designed for a payload of at least the empty weight of the device.

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

Close the tank ventilation and the fuel valve.

For transport, you can fold up the handlebar.

Loading

Use suitable ramps for loading that

- can carry the empty weight of the device + 200 kg.
- are wider than the device.
- have a slip-free surface.

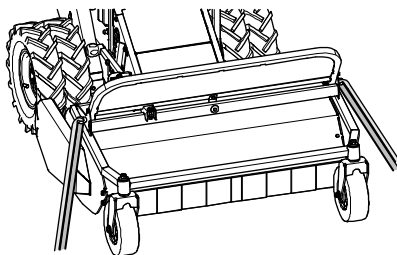
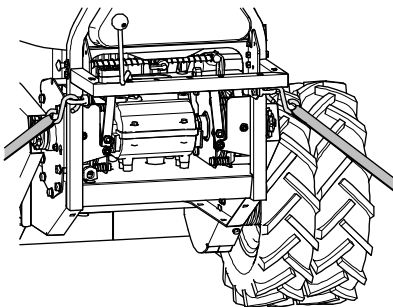
Notice

Risk of damage due to incorrect fastening of straps.

- Fasten the straps only at the points shown in the figure.
- Do not overtighten the straps.

1. Put the device in front of the ramps and make sure that the ramps
 - are as wide as the wheel gauge of the device.
 - are tightly secured to the platform.
 - are not steeper than 15°.
2. Carefully drive the device via the ramps onto the platform.
3. Observe the instructions in chapter “Switching off and parking”.

4. Secure the device against rolling, sliding and tilting. Use straps that support the weight of the device.
5. Tie down the device to tie down points and frame parts with straps that can hold the weight.



Unloading the device

1. Undo the transport fastenings.
2. Drive the device carefully down the ramps of the platform.

Maintenance

Danger

Danger of poisoning due to poisonous exhaust gases.

- ▶ Do not operate the engine in closed or insufficiently ventilated rooms.
- ▶ Please observe the safety instruction regarding the poisoning risk.

Warning

Risk of injury due to unexpected movement. When inspections are carried out, the device can move unexpectedly.

- ▶ Make sure that no persons or property are in the danger area.
- ▶ Make sure that no further hazards result from an unexpected movement.

Warning

Risk of injury during maintenance and cleaning work when the engine is running.

- ▶ Perform maintenance tasks only then with a running engine if this is required in the Maintenance table.

Improper maintenance can make the device unsafe for operation and result in accidents. Regular maintenance keeps your device ready for use.

Service the device according to the following maintenance instructions.

Contact an authorised service centre if problems during maintenance occur or if you determine deficiencies during one of the following inspections.

Prior to all maintenance and cleaning work when the engine is not running:

1. Let the device cool down for at least 20 minutes.
2. Pull off both plug connectors.
3. Close the fuel valve and the tank ventilation.
4. For work on the bottom of the device: Attach the front side of the device to a suitable lifting gear and pull the device up by crane until the engine mount rests on the ground.

Maintenance overview

For maintenance and cleaning work, always wear safety gloves and safety glasses.

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.	■	■▲
Blade and fastening components	Check for wear and damage (see chapter "Checking blade").	■	▲
	Change.		▲
Motor brake	Does the blade stop within 7 seconds?	□	▲
Release the drive lever	Does the device stop when the lever is in zero position?	□	▲
Drive	Check.	■	▲
V-belt	Are the belts tensioned correctly, without fissures, and in good condition?		▲
Bowden cables	Check for proper function and ease of movement.	■	▲
Acceleration lever	Check for proper function.	□	▲
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	For reliable information, see the operating manual of the engine manufacturer.	■	▲
	Check oil level (see operator's manual of the engine manufacturer).	■	▲
	Oil change (see operator's manual of the engine manufacturer).		▲
Bevel gear	Check the oil level.		▲
Parking brake	Check.	■	▲
Flammable material	Remove easily flammable debris buildup 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.

Cleaning the device

Depending on use, clean the device thoroughly, especially the bottom and the blade.

Grass cuttings and dirt that are stuck interfere with the grass ejection and impair the cutting quality. To sufficiently cool the engine, keep the engine cover, ventilation grid and engine clean.

Fire hazard! Take particular care that the components at the muffler are clean.

For cleaning, use a hand brush. Remove stubborn dirt with a wooden or plastic spatula. Clean the outside housing parts with a cloth.

Do not clean the device with water spray or high-pressure cleaner! Do not use any aggressive cleaning agents.

General inspection

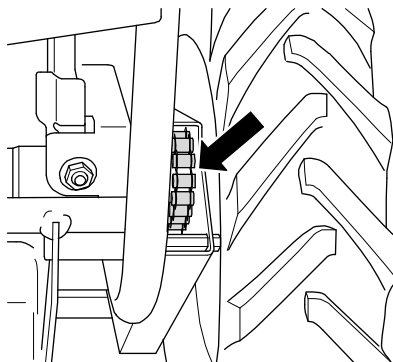
To make sure that the device can be operated safely, check all nuts, bolts, screws, connections of fuel lines, air filters etc. regularly for proper condition and firm seating. Check the ignition wire and the spark plug connector for damage.

Immediately replace damaged or worn parts, especially covers, silencers or fuel tank (authorised service centre).

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.

Chain lubrication



The chains to the right and to the left of the differential lock must be lubricated at regular intervals. We recommend using biodegradable chain spray.

Transmission

The transmission is maintenance-free and filled with oil that is supposed to last the entire service life of the device. Make sure that there are no leaks or damages.

Maintaining the engine

Caution

If the speed is set too high, objects can be ejected. The engine can be damaged and a higher level of noise pollution is produced.

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

The engine manufacturer has prepared the operating manual of the engine. The manual contains all maintenance requirements and warranty conditions for the engine. If warranty work on the engine is required, contact your authorised service centre or the next authorised dealer for engines.

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

Keep the

- engine cover (ventilation grid),
 - muffler (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.

Observe the information in the operator's manual of the engine manufacturer.

Checking the spark plugs

Danger

The ignition system generates an electromagnetic field.

- Wearers of pacemakers must not work on active parts.

Soiled spark plugs reduce the engine output. Clean the electrode of the spark plug with a brass wire brush. Check the electrode gap (see operating instructions of the engine manufacturer). Make sure that the insulator around the electrode is not damaged. Never use a damaged spark plug.

Tighten the spark plug using the correct torque (see operating instructions of the engine manufacturer).

Always check both spark plugs.

Maintaining the air filter

Warning

There is a fire and explosion risk due to cleaning agents.

- Never clean the air filter with flammable solvents.

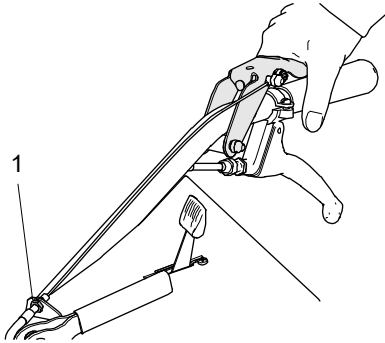
Make sure that the air filter is always clean. A dirty air filter reduces the engine power and leads to increased engine wear and fuel consumption. Independent of the operating hours, change the filter insert at least once a year. Do not operate the engine without air filter.

Observe the information in the operator's manual of the engine manufacturer.

Checking the drive

1. Put the device on a non-slip surface (e.g. concrete or asphalt).
2. Switch off the engine.
3. Set the gear shift 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.

Checking the parking brake

Warning

If the parking brake is incorrectly adjusted, the device can roll away.

- Make sure that the parking brake is always functioning properly.

1. Place the device on a surface with a good grip (e.g. concrete or asphalt).
2. Switch off the engine.
3. Turn the switching lever to idling.
4. Try to pull the device backwards.

If the rear wheels lock up, the parking brake is set correctly. If the device can be pushed, the parking brake must be readjusted by an authorised service centre.

Checking the blade

Warning

Wear or damage on the blades and the fastening elements can result in the blades or the fastening elements coming off.

- Check the blades and all fastening elements according to the following instructions.

Warning

There is a considerable risk of injury due to improperly mounted and maintained blades.

- Work at blades must be carried out by an authorised service centre.



Use solid gloves when you check the blade.

Work on the blade requires specific expertise because an imbalance inspection is necessary and torques must be observed.

Check the blade and all fastening elements for wear, damage and cracks

- each time before and after you mow.
- in case of noticeable changes or unusual vibrations.

Contact an authorised service centre if you detect faults or damage during inspection.

Check the blade, the flail shaft and all fastening elements for completeness, wear, damage and cracks

- each time before and after you mow.
- in case of noticeable changes or unusual vibrations.

Contact an authorised service centre if you detect faults or damage during inspection.

All shown blade parts and their fastening elements must be changed

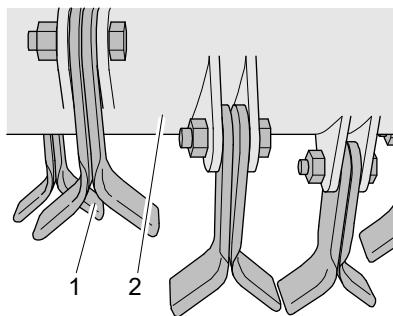
- if damage or cracks are detected.
- if unusually strong vibrations occur.
- at least once a year or every 50 operating hours, no matter if wear does exist or not.

The material weakens, can suffer cracks, endangering people and material assets. Ejected broken pieces can cause severe injuries.

Unusual vibrations are an indication that

- blades are missing or broken,
- the blade is worn excessively or on one side or
- damage to the engine or cutter deck fastening.

Changing the flail blades



New blade



Replacing the blade

- broken



- bent

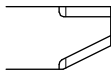


- worn on both sides



Turning over the blade

- worn on one side



The flail blades (1) can be mounted to both sides. Turn all flail blades over together when:

- one side is worn and
- when the other side of the flail blade has not yet been used.

Replace a flail blade when the blade is:

- broken,
- torn,
- bent or
- worn on both sides.

In case of uneven wear, there is a risk of imbalance.

Replace all flail blades together when more than 2 flail blades are damaged or worn.

For each blade change, check the flail shaft (2) for damage and cracks.

Always have a new spare blade ready.

Original blade

An original blade is engraved with:

AS XXXXXXXX

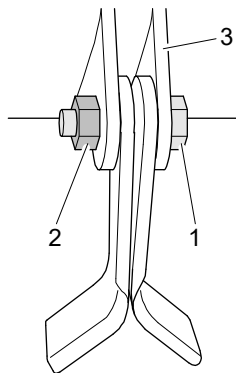
The engraving shows the spare part number.

Checking the fastening elements and the flail shaft

⚠ Warning

Wear or damage at the flail shaft and the fastening elements can result in the flail blade or the fastening elements coming off.

- Check the flail shaft, mounting plates, fastening screws and corresponding nuts of the flail blades.



The fastening elements are worn down during mowing. Replace the fastening screws (1) and the corresponding nuts (2),

- if they are worn by more than 0.04 in (1 mm) in diameter and
- for each blade change.

Only use original spare parts.

For each blade change, check the flail shaft for damage. The fastening straps (3) must not be damaged, bent or knocked out. Contact an authorised service centre if damage, cracks or wear have occurred.

Checking the blade clutch

Check the blade clutch for proper function by disengaging the blade. The blade must come from full speed to a standstill in less than 7 seconds. Contact an authorised service centre if this is not the case.

Check oil level of the bevel gear.

Place the device for 30 minutes on a level surface before you check the oil level.

The ideal oil level is at the centre of the inspection glass.

If the oil level is below the bottom edge of the inspection glass, damage to the gearbox due to overheating will result. If the oil level is higher than 2/3 of the inspection glass, the seals will be damaged and oil loss will result.

Contact an authorised service centre when the oil level is too high or too low.

Assembly

Scope of delivery

The device is shipped in a carton.

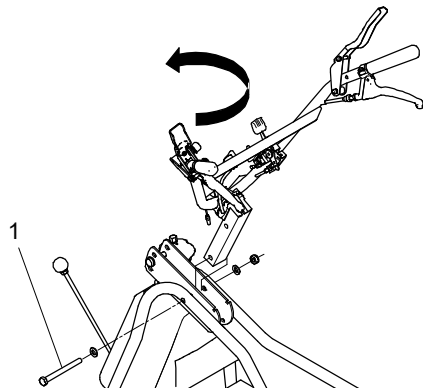
The scope of delivery included:

- The device.
- This operating manual.
- Manufacturer's certificate.
- Tool bag.
- See operating instructions of the engine manufacturer

Unpacking

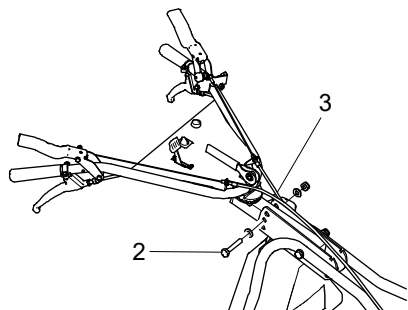
1. Open the box at the top.
2. Cut open the front side of the box.
3. Unfold the handlebar (see chapter "Guide rail and handlebar").
4. Check the air pressure of the tyres (see chapter "Technical data").
5. Shift the gearshift on the transmission to the neutral position.
6. Push the drive lever towards the handlebar and push the device off the pallet.

Guide bar and handlebar



1. Slacken the screw (1) at the guide bar and pull it out sideways.

2. Turn the handlebar and guide bar to the correct position.
3. Fix the handlebar to the guide bar with the screw (1).



4. Slacken the screw for the height adjustment of the handlebar (2) and pull it out sideways.
5. **Attention:** Do not crush the Bowden cables (3) when swivelling the handlebar. Swivel up the handlebar to the correct working position and tighten with the screw and nut.

Storage

Storing the device

Store the device in a locked, dry and sufficiently ventilated room and out of reach of children. Always rectify faults of the device before storage so that the device is always in operationally safe condition. 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

1. Observe the safety instructions for handling the fuel.
2. Emptying fuel tank. Place a piece of hose onto the fuel valve and let the fuel run into an approved fuel container.
3. Thoroughly clean the device.

4. Touch up any possible damage to the paint finish (for paint, see chapter "Accessories").
5. Preserve the engine.
 - Unscrew the two spark plugs.
 - Fill each spark plug with a tablespoon of engine oil.
 - Briefly activate the choke (oil distribution in the cylinder).
 - Screw the spark plugs back in.
 - Do not put on the spark plug connector!

Before longer storage, e.g. in the fall, have an authorised service centre check the device!

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

Restarting

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 approved by the manufacturer. When foreign parts are installed, the warranty and guarantee shall be void for the foreign parts, the device, and for any resulting damage.

Inform your authorized service center about the device type and serial number of your device when you order spare parts.

Via www.as-motor.com you have direct access to our spare parts portal. Here you can quickly find the right spare part using the search function and print out the corresponding spare parts list. This makes it easier for you to place the subsequent order via your authorised specialist workshop, stating the device type and the serial number of your device.

Wear parts

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

Blades, cutting edges, cutter bars, blade bolts, sliding plates, V-belts, chains, Bowden cables, starter ropes, pressure plates, air filters, spark plugs, disk springs, lock washers, fuses, disks, thrust plates, pressure disks, protection skirts, impact protection, wheels, tires, brushes, skids etc.

Disposal

Lawn cuttings should not be thrown in the trash, but should be composted.

Shredded plant material decomposes quickly and can be used as fertilizer and, therefore, be left on the ground.

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



Electrical appliances and rechargeable batteries do not belong in household waste, but must be disposed of separately.

According to the European Directive 2012/19/EU on waste electrical and electronic equipment and its implementation in national law, waste electrical equipment must be collected separately and recycled in an environmentally sound manner. For information on disposal options for waste electronic equipment, please contact your retailer or your local or municipal authority.

Before disposal, remove the battery from the device.

Discharge a used battery and hand it over to a public disposal or collection point.

Immediately dispose of a damaged or defective battery properly and in accordance with local regulations.

Packagings are made of recyclable materials and must be disposed of accordingly.

Warranty

Please see our homepage www.as-motor.com for warranty conditions.

Please print out the documents that you receive during the online registration. Keep these together with your proof of purchase.

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.com.

Problem	Possible cause	Remedy
Engine does not start	Engine stop switch to OFF.	Set the engine stop switch to ON.
	Fuel valve is closed.	Open fuel valve.
	Tank ventilation screw is closed.	Open tank ventilation screw.
	No fuel is in the tank.	Refill fuel.
	Choke is open.	Close the choke.
	Spark plug connector is pulled off.	Observe the safety instructions! Put spark plug connector back on.
	Device was tilted – oil leaked into the air filter.	Replace air filter, unscrew spark plug and start several times when the fuel valve is closed, dry the spark plug and screw it back in.
	Engine was flooded due to too many start attempts.	Unscrew spark plug and start several times when the fuel valve is closed, dry the spark plug and screw it back in.
	Air filter is dirty.	Maintain air filter (see chapter "Maintenance").
	Spark plug is dirty, damaged, or incorrect electrode gap.	Clean spark plugs and check electrode gap (see chapter "Maintenance"). Replace spark plug if necessary.
	Housing of the mower is jammed.	Clean the device (see chapter "Maintenance").
	No oil pressure: Too little engine oil.	Check engine oil level, refill.
	No oil pressure: Slope too steep.	Bring the device to a level position.
	Poor quality, dirty, or old fuel.	Clean fuel system (authorized service center). Always use fresh fuel.

Engine starts badly or runs irregularly	Choke is closed.	Open choke (see chapter "Starting").
	Air filter is dirty.	Maintain air filter (see chapter "Maintenance").
	Poor quality, dirty, or old fuel.	Always use fresh fuel.
	Spark plug is dirty, damaged, or incorrect electrode gap.	Clean spark plug and check electrode gap (see chapter "Maintenance"). Replace spark plug if necessary.
No drive when drive lever is actuated	Drive belt is insufficiently tensioned.	Check travel drive (see chapter "Maintenance").
The blade does not rotate	V-belt is insufficiently tensioned or damaged.	Authorised service centre.
	Bowden cable is defective.	Authorised service centre.
Strong vibrations during operation	Imbalance of the blade caused by incorrect sharpening or chips on the blade.	Have blade resharpened and balanced by an authorised service centre. Replace a damaged blade immediately.
	Blade drive shaft is bent due to collisions with foreign objects.	Authorised service centre.
	Engine fastening is loose.	Authorised service centre.
	Blade fastening is loose.	Authorised service centre.
Irregular noises	Loose fastening elements.	Authorised service centre.
	Silencer is defective.	Authorised service centre.
Engine is smoking	Air filter is dirty or drenched with oil.	Maintain or replace air filter (see chapter "Maintenance").
	Oil level is too high.	Have authorised service centre lower the oil level to the marking.
Engine gets hot	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.
Uneven cut, lawn becomes unsightly	Blade is dull or worn.	Have blade resharpened and balanced by an authorised service centre. Replace a damaged blade immediately.
	Speed is too high proportionately to the cutting height.	Reduce speed and/or select the correct cutting height.
	Housing of the mower is heavily contaminated.	Clean.
	Different tire pressure.	Check the tire pressure.

Mulching result with high plant material not satisfactory	Speed is too high.	Reduce speed.
Mulching result with low plant material not satisfactory	Plant material is ejected too quickly.	Increase speed.
Discharge channel is jammed	Mowed grass was too long or too damp.	Adjust cutting height and mowing speed to the mowing conditions.
	Blade is worn.	Authorised service centre.
	Engine speed is too low despite full power.	Authorised service centre.
The device does not stop when the brake is activated	Brake is adjusted incorrectly, worn, or defective.	Check the parking brake (see chapter "Maintenance"). Authorised service centre.
The engine does not switch off	Switching off system is defective.	Close the fuel valve. Authorised service centre.
The tires become flat	Thorns or sharp objects damage the tyres.	If necessary, use tyre sealant (authorised service centre).

Technical data

Type	AS 701 SM	AS 901 SM
Range of application (temperature)	0 - 30 °C For temperatures below 5 °C, observe the engine manufacturer's information regarding the engine oil.	
Engine, type	One cylinder four stroke engine	Two cylinder four stroke engine
Manufacturer	Briggs & Stratton	Briggs & Stratton
Type	Vanguard, V-Twin	Vanguard, V-Twin
Cylinder capacity	344 cm ³	480 cm ³
Performance	7,6 kW (10,3 PS)	10,7 kW (14,5 PS)
Engine speed	3300 min ⁻¹	3500 min ⁻¹
Cutting device, type	20 Y flails	26 Y flails
Cutting width	70 cm	90 cm
Cutting height	10 - 100 mm	10 - 100 mm
Growth height	up until approx. 120 cm	up until approx. 150 cm
Starting device	Rope start	
Traction drive	Mech. shiftgear with differential lock	Mech. shiftgear with differential lock
Speed forward	1,1; 1,5; 2,4; 3,0; 3,6 km/h	1,2; 1,6; 2,6; 3,2; 4,0 km/h
Speed reverse	1,7 km/h	1,8 km/h
Maximum area coverage	ca. 2500 m ² /h	ca. 3600 m ² /h
Measures and weights		
Transport size with packaging L/W/H	195/112/110 cm	195/112/110 cm
Max. tyre dimensions L/W/H	220/84/105 cm	220/104/105 cm
Weight	196 kg	215 kg
Sound level	according to DIN EN 12733	according to DIN EN 12733
Measured sound power level L _{WA}	102,0 dB (A)	100,0 dB (A)
Uncertainty factor K _{WA}	2,5 dB (A)	2,5 dB (A)
Measured sound pressure level at working place L _{pA}	91,0 dB (A)	87,0 dB (A)
Uncertainty factor K _{pA}	2,5 dB (A)	2,5 dB (A)
Vibration emission value according to DIN EN 12733		
Hand-arm-vibrations a _{h,w}	2,4 m/s ²	2,5 m/s ²
Measurement uncertainty U	1,5 m/s ²	1,5 m/s ²
Tire pressure	1,0 - 2,0 bar	

Accessories

Spray can (orange colour):	G00011050
Operating hours counter:	G06927008
Inclinometer:	G06950027
Hand protection set:	G06780309

EC Declaration of conformity

We declare that the flail mowers

Type	AS 701 SM	AS 901 SM
Cutting width	70 cm	90 cm
starting from serial no.	026817110001	026017110001

as brought into circulation by us conform to all relevant safety and health requirements of the EC directives listed.

- 2006/42/EC
 - 2014/30/EC
 - 2011/65/EU

Function:

The device is exclusively intended for cutting grass or similar vegetation in well-maintained areas in agriculture and forestry, that are cut at least once a year.

Applied standards:

DIN EN 12733

Place where all technical records are filed:

AriensCo GmbH
 Ellwanger Straße 15
 74424 Bühlertann
 Germany

Bühlertann, in May 2023



Jochen Schneider
 Management



by proxy Frank Einsiedler
 Head of devolpment



AriensCo GmbH
Ellwanger Straße 15
74424 Bühlertann
Germany
www.as-motor.com



AS-Motor is your premium brand for lawn and high grass mowers as well as weed removers. We offer our customers professional technology for steep slopes, rough terrain, and lawn care. Our extensive product range which includes hand-held entry-level devices up to devices with remote control will always offer private customers, service providers, cities, municipalities and road maintenance authorities the right product. For more than 60 years, we have been developing and producing with a high production depth in Southern Germany and supply our dealer network in more than 45 countries all over the world.

Mulching mower	AS Mulching mowers shred the grass to create such a fine mulch, almost an "invisible" fertiliser, that sinks right away back into the lawn. Disposal of the cuttings is not required.
Professional lawn mower	Professional lawn mowers with rear or side discharge for every requirement, even with all-wheel drive, brake and reverse gear.
Allmäher®	An agile lawn mower for maintenance of extensive grassed areas. The Allmäher® reliably mows metre-high grass, brushes, and weeds.
Flail mower	High grass with undergrowth, steep slopes or areas in unknown terrain? The movably mounted flail blades of the AS-Motor flail mower give way to rocks and obstacles and ensure an even cutting pattern.
Ride-on mower	Large areas, weeds, undergrowth or enormous grass heights - the AS-Motor ride-on mowers are made for it. The all-wheel drive ride-on mowers are also perfect for rough terrain.
Equipment carriers and attachments	Equipment carriers from AS-Motor give flexibility for the professional service provider's daily routine. For example, for insect-friendly mowing, sweeping, snow clearing and even more.
Remote control mower	Steep slope mowing is a challenge for man and machine. Modern RC technology makes this hard work much easier and safer.
Rotary mower	Ideal for feed production in the non-professional segment. The grass is moved to the side, unshredded, in rows as swaths.
Weed remover	The AS-Motor weed removers mechanically clean paved areas and curb stones from growing weeds – quickly, safely, and efficiently.
AS-Motor Electric	The AS-Motor Electric drive sets new standards in performance, power and endurance. Devices with this drive offer comparable performance values to devices with combustion engine.

AS-Motor is a brand of the Ariens Company

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