

AS MOTOR AS 600 MULTIPRO OPERATOR'S MANUAL



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Operator's Manual



Device carrier and attachments

AS 600 MultiPro

From serial number: 036320070001

Issued: 19 January 2021, V1.0

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 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 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 operator's manual before using the device. Share this operator's manual and the operator's manual of the engine manufacturer with other users of the device.

Contact

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

For international AS 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 only intended for operation with attachments that have been approved by "AS-Motor Germany".

Observe the information on intended use in the chapter of the respective attachment.

Any other use exceeding this purpose is inadmissible.

Follow the instructions in the chapter Maintenance of the attachment carrier and the respective attachment. 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!

In particular, the device **must not** be used

- Observe the information in the chapter of the respective attachment
- for transporting people, loads or towing trailers.
- as drive unit for work tools and any type of tool sets that are not authorised by "AS-Motor Germany".

The device is not licensed for driving on public roads.

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Explanation of the symbols

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.

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 word "Notice" written in bold letters.

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:



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



Danger of bursting while tires are inflated.
Observe the admissible tire pressure (see Technical data).



Hot surfaces or components. Do not touch the engine or the silencer.



The device generates poisonous exhaust fumes as soon as the engine is running. Some of these gases are odourless and invisible. Never let the engine run in closed rooms.



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



Explosion hazard!
Keep the fuel away from ignition sources and do not smoke while handling the device.
Observe the safety instructions regarding the fuel!



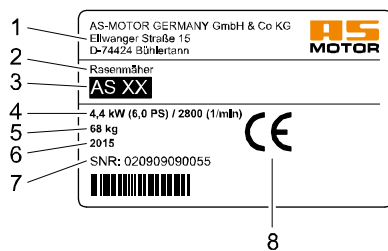
Noise is causing health problems. Use personal ear protection to avoid hearing damage. Wear safety glasses.



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 CE 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. Share these operating instructions with other users of the device.

Have skilled personnel who were trained by AS-Motor show you the safe handling of the device before you work with it for the first time.

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.

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

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.



Persons with pace makers must not touch live 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

Prior to use, check the work tools, protection skirt, drive and fastening parts, cables and cable connections, hoses, hose connections and containers for proper working condition and firm seating by visual inspection.

Never use the device with defective or missing protective devices, covers, 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 the device if the work tools do not stop within a few seconds after being switched off

Use of attachments

Read the chapter of the attachments before attaching and using the attachment.

Switch off the engine of the attachment carrier before attaching and detaching an attachment.

Prior to each operation, check the device for completeness, proper function, and cleanliness.

There is a risk of injury when attaching and detaching attachments. Wear protective gloves, safety shoes and use suitable tools.

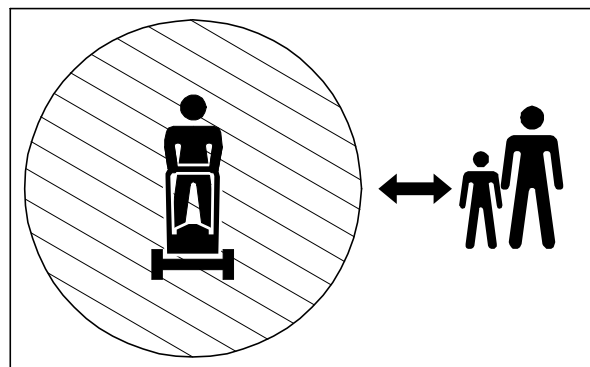
Secure the attachment carrier and attachments to prevent them from rolling away.

Support the attachment carrier and attachments with suitable aids during mounting and dismounting.

Attach the attachments as described in the chapter Mounting the attachments.

Switch off the attachment when driving on surfaces other than the working area.

Danger area



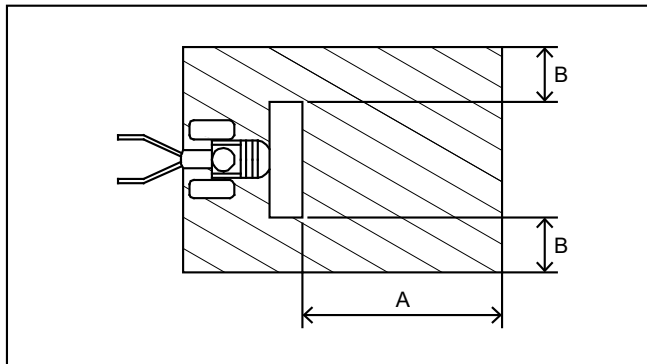
Within the danger area of the device, there is a risk of injury.

The tool of the attachment cause injuries and objects can be thrown out. The area in front of and next to the device is especially dangerous.

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

Make sure

- that nobody else besides the user is on the work area.
- 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.
- that you do not bring your hands and feet close to moving parts, especially the working tools.



The size of the danger zone depends on the attachment used.

Attachment	Front (A)	Side (B)
ESM cutter bar G90900102	10 m	5 m
LOSI cutter bar G90900103	10 m	5 m
Attachment flail cutter G90900104	20 m	5 m
Attachment sweeping brush G90900105	50 m	5 m

Use caution during operation

Danger of injury during motor start

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 at a safe distance to the working tools.

When the engine is started, the device must not be tilted.

Risk of injury when the attachment is running

Switch off the attachment and wait until the attachment stops,

- when you drive on surfaces other than the working area.

Risk of injury when the engine is running

Switch off the engine and wait until the engine and the attachment stop

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

Switch off the engine, wait for the working tools to stop and remove the spark plug connector

- before you clean or check the device or before you carry out work on the device.
- before you remove and clear blockages.

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.

Before you start working

Personal protective measures



Always wear safety shoes with good grip and long trousers. Do not work 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.



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

Ask your specialised dealer about suitable protective equipment.

Preparing working area

Examine the working area carefully before working. Remove rocks, pieces of wood, bones, wires, cords and other objects that could be thrown away, wound up or whirled around by the device.

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

Caution during working

Risk of injury

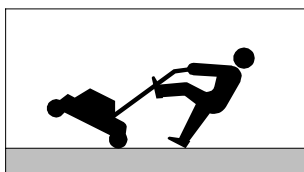
Risk of injury caused by ejected objects. Never work when persons, children, pets, or objects are in the danger area.

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

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

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

Be especially careful when working on soft ground, nearby landfills, ditches, dikes and water edges.



Avoid mowing damp grass, there is a sliding risk!

Avoid working on slippery working areas.

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 working tool has hit an object.
- if the device starts to vibrate unusually severely.

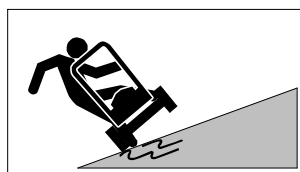
Working on surfaces with a fire hazard

- 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 working area even after working to make sure that no fire breaks out.

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

- Engine
- Silencer (manifold, protection, spaces)
- area around the fuel tank

Caution when mowing slopes



There is a risk of injury during driving on slopes due to tipping over or sliding.

- Drive on steep terrain only when safe operation can be guaranteed.
- Do not drive on excessively steep slopes.
- Take suitable precautions on steep slopes, e.g. by using step irons.
- If possible, always drive across the slope, avoid driving up or downhill.
- Always make sure that you step safely, use non-slip safety shoes.
- Be extremely cautious when changing the direction.
- Drive only when the ground is dry and has a good grip.
- When driving on the slope, make sure the steerable front wheel is locked (if existing).

When facing downhill, the device can roll away. Park the device on level ground only and secure against rolling away with the parking brake.

When work is completed

After working, always close the fuel valve.

Prior to leaving the device, wait until the motor 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 place the device with petrol in the tank inside a building where petrol vapours may come into contact with open flames or sparks.

Secure the attachment carrier and the attachment against unauthorised use before leaving the device.

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.

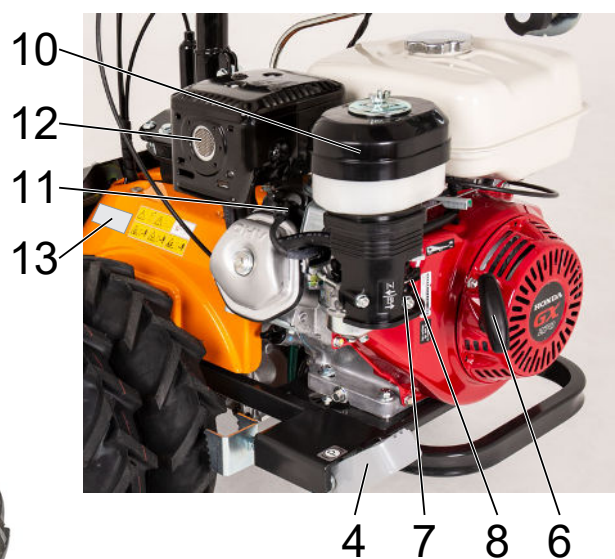
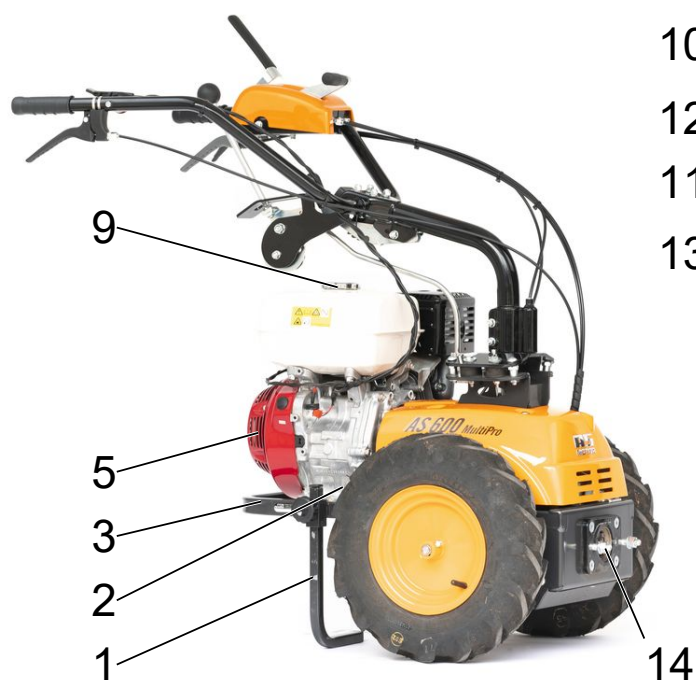
Prior to all maintenance work, wait until the engine comes to a standstill and pull off the spark plug connector.

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.

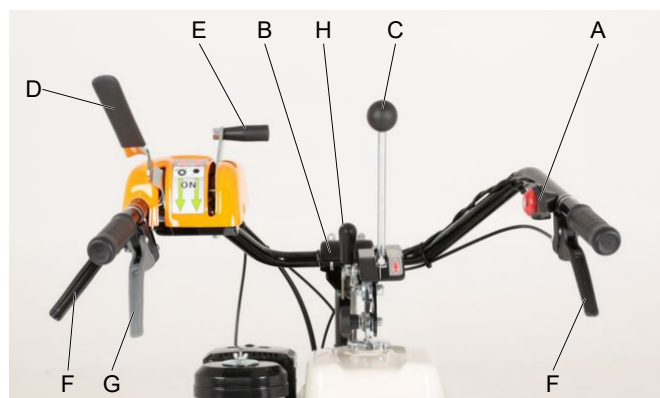
The same applies for spare parts and accessories.

Device description



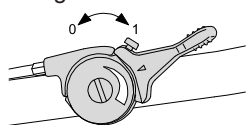
- 1 Support foot
- 2 Oil dipstick
- 3 Frame
- 4 Parking brake
- 5 Ventilation grid
- 6 Starter grip
- 7 Fuel valve
- 8 Choke
- 9 Tank filler spout
- 10 Air filter
- 11 Spark plug connector
- 12 Silencer
- 13 Type plate
- 14 PTO shaft

Control elements



Engine stop switch with accelerator lever (A)

Use the engine stop switch with accelerator lever to switch the ignition off or on and change the engine speed.



0: Engine off / engine cannot be started.

1: Use the accelerator lever to set the permissible engine speed (see Setting the maximum permissible engine speed)

Rev counter (B)

When the engine is running, the engine speed is displayed.

When the engine is switched off, the operating hours are displayed.

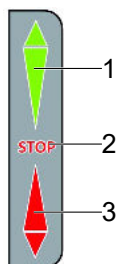
Drive speed lever (C)

Use the drive speed lever to select continuously between idling (STOP) and forward and reverse travel.

In idling (STOP), the device does not move.

The further you push the lever forward, the faster the device moves forward.

The further you pull the lever back, the faster the device moves backwards.



1: Moving forward

2: STOP: Stopping (idling)

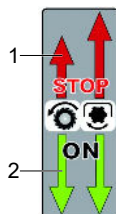
3: Moving in reverse

Safety lever (D)

The safety lever is a guard device.

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

The working tool can only be switched on when the safety lever is actuated. When you release the safety lever, the drive and the working tool are switched off.



STOP (1):

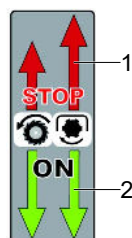
Switching off drive and working tool

ON (2):

Switch on drive. The working tool can be switched on

Clutch lever working tool (E)

With the clutch lever, you switch the working tool on and off.



STOP (1):

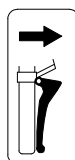
Switch off working tool. Flip the clutch lever forward.

ON (2):

Switch on working tool. Flip the clutch lever backward.

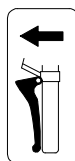
Steering arm (F)

Use the two steering arms to control the direction of travel of the device.



Steering to the right:

press the right lever towards the handlebar.



Steering to the left:

press the left lever towards the handlebar.

Lateral adjustment handlebar (G)

The handlebar can be locked in 3 positions.

1. Press detent lever towards the handlebar.
2. Swivel the handlebar to the side to the desired position.
3. Release the detent lever and engage the handlebar in the desired position.

Height adjustment of handlebar (H)

The handlebar can be locked in 3 positions.

1. Press detent lever down.
2. Move the handlebar to the desired position.
3. Release the detent lever and engage the handlebar in the desired position.

Choke (8)

Close the choke during cold start of the engine.



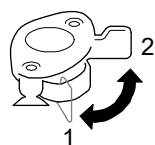
Open the choke:

Push the lever inwards.

Close the choke:

Push the lever outwards.

Fuel valve (7)



1: Closed

2: Open

Information on how to work

Check the device for completeness, proper function, and cleanliness before each operation. 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.

Frequent engagement and disengagement leads to increased wear of the drive belt and components of the drive. Especially engaging under load, e.g. in high grass, leads to overload.

You will find further information on working in the respective chapters of the attachment tools.

Special information, e.g. on ecological mowing and available attachments, can be found on our homepage www.as-motor.com.

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).

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 working area. Live cables can be damaged during work and cause an electric shock or short circuit.

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

Warning

During startup, there is a risk of injury due to the running working tool.

- ▶ Make sure that nobody is in the danger area of the working tool. Do not tilt the device when starting.

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

1. Place the device on even terrain, not in high grass.
2. Open the fuel valve.
3. Plug in the plug connector.
4. With cold start, close the choke.
5. Turn the accelerator lever to medium engine speed.
6. Pull the starter rope slowly out until you feel resistance and then pull out quickly – engine starts to run.
7. Slowly release the starter rope.
8. Open the choke again.

Setting the maximum permissible engine speed

The engine speed must be set according to the attachment.

By setting the maximum permissible engine speed

- the specified emissions are complied with.
- a better work result is achieved.
- the strain on the operator and the environment is reduced.
- the stresses on the device are minimized and the service life of the device is increased.

Use the accelerator lever to set the maximum permissible speed for the attachment in question. The current speed can be read off the rev counter.

For the maximum permissible engine speeds, see the chapter "Technical data" of the respective attachment. Attachments for which the setting of the maximum permissible engine speed is particularly important, are additionally marked with a sign on the device.

Depending on the work task, the engine speed can be further reduced.

Reducing the engine speed additionally reduces the load on the for the operator, the environment and the device.

Notice

Damage to the attachment due to the engine speed being set too high.

- ▶ Observe the information of the attachment.
- ▶ Set the engine speed to the maximum permissible engine speed (see chapter "Technical data" of the attachment).

Driving

Driving

Warning

Risk of injury caused by unintended movement of the device.

- ▶ Set the speed lever to STOP before operating the safety lever to prevent unintentional movement of the device.

Warning

Risk of injury due to driving speed set too high.

- ▶ Select a low driving speed before operating the safety lever, especially when reversing.
- ▶ Only drive fast enough to control the machine safely at all times.
- ▶ Always set the speed lever to STOP when stopping.

Use the drive speed lever to select between idling (STOP) and continuously adjustable forward and reverse speed.

You can set the driving speed before driving or while driving.

The further you push the lever forward, the faster the device moves forward. The further you pull the lever back, the faster the device moves backwards.

Adjust the driving speed to the work task and the working conditions. Always start slowly and only increase the speed if you can control the device safely at all times.

In case of a hazardous situation, switch off the drive working tool.

Drive on

1. Select a low speed.
2. Press the safety lever towards the handlebar – device starts moving.
3. If necessary, adjust the speed.

Drive off

1. Release the safety lever and set the speed lever to STOP.

Reverse gear**⚠ Warning**

Risk of injury due to tripping or slipping when driving in reverse and when turning.

- Prior to switching on the reverse gear, make sure that your path is clear of obstacles.

1. Release the drive lever.
2. Set the speed lever to a low reverse speed.
3. Push the safety lever back towards the handlebar – device starts moving backwards.

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.

In order to steer while driving, a steering clutch is installed for each drive wheel. When the steering lever is operated, the steering clutch is disengaged, resulting in a steering movement. The disengaged wheel is free to move and unbraked. The steering clutch can also be used in reverse.

Steering to the right:

- Pull the right steering lever - the device moves to the right.

Steering to the left:

- Pull the left steering lever - the device moves to the left.

Turning on level ground:

- Pull both steering levers - both wheels are free to move and unbraked, the device can be moved or turned freely.

Pushing

1. Release the drive lever.
2. Push both steering levers towards the handlebar – device can be pushed or rolls.

Switching the working tool on and off**Switch on working tool**

1. Push the safety lever towards the handlebar.
2. Pull the clutch lever backwards - the working tool starts up.

Switch off working tool

1. Flip the clutch lever forward or release the safety lever. Always switch off the working tool when you do not need it, e.g. when driving outside the working area.

Switching off and parking**⚠ Warning**

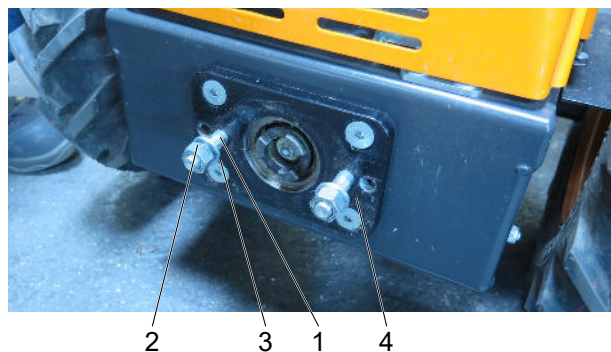
When facing downhill, the device can roll away.

- Park the device on level ground only and secure against rolling away with the parking brake.

1. Release the drive lever.
2. Set the speed lever to STOP.
3. Turn the engine stop switch to "0".
4. Activate the parking brake.
5. Wait for the engine to stop completely before you step away from the device.
6. Close the fuel valve.
7. Pull off the plug connector.

Mounting the attachments

The attachments are mounted on the stud bolts of the front of the attachment carrier.



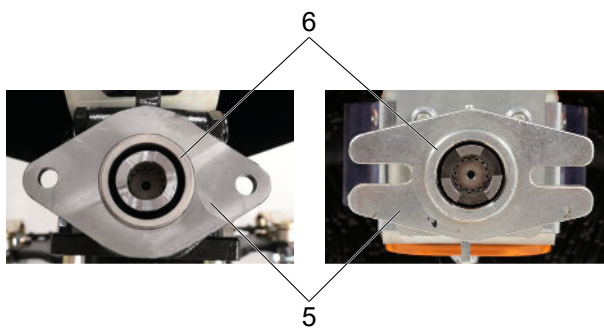
Preparing the attachment carrier for the attachment

The stud bolts (1) can be fitted in two positions on the bolt-on plate (4). Depending on the position other attachments from AS-Motor can be fitted.

1. To loosen the stud bolts, screw both nuts (2) onto one stud bolt.
2. Tighten the nuts against each other (lock).
3. Unscrew the stud bolt with the rear nut.
4. Insert the stud bolt in the appropriate position.
5. Tighten the stud bolt with the front nut as far as it will go.
6. Repeat steps 1-5 with the second stud bolt.

Attachment	Inner position	Outer position
ESM cutter bar G90900102	-	x
LOSI cutter bar G90900103	x	-
Attachment flail bar G90900104	x	-
Attachment sweeping brush G90900105	x	x

Mounting the attachment



Notice

Risk of damage due to incorrect mounting of the attachment.

- When mounting, make sure that you do not damage the threads.

1. Place the attachment carrier on the support leg. When doing so, ensure the correct height setting. The coupling flange on the attachment (5) and the bolt-onplate of the attachment carrier (4) must be at the same height and parallel to each other.
2. Remove the nuts (2) and the washers (3).
3. Push the attachments with the coupling flange carefully onto the stud bolts (1).
4. Screw the washers (3) with the nuts (2).
5. When screwing on, make sure that the centring ring (6) slides into the bolt-on plate (4) and that the coupling flange (5) lies flat against the bolt-on plate.

The claw coupling slides back when it is screwed on and engages during operation.

Dismounting the attachment

1. Remove the nuts (2) and the washers (3).
2. Remove the attachment.
3. Screw the nuts (2) and the washers (3) onto the stud bolts.

Attachment cutter bar

Intended use (cutter bar)

The device is intended only for cutting grass or similar vegetation in well-maintained grounds in agriculture, forestry and preservation of the countryside that are cut at least once a year.

The device is only intended for operation with attachment carriers that have been approved by "AS-Motor Germany".

Any other use exceeding this purpose is inadmissible.

Observe the information in chapters Maintenance of device carriers and Attachment. 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!

In particular, the device **must not** be used:

- Observe the instructions in chapter of the device carrier.
- 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.
- as shredder for shredding tree and hedge cuttings.

Safety instructions (cutter bar)

Risk of injury from sharp blades on the cutter bar! Always fit the protective bar when the cutter bar is not in use.

If the device is used for mowing food or fodder, all parts that come into contact with it may only be lubricated with oils or greases that are suitable / approved for this purpose.

Information on mowing

Observe the working instructions in the chapter of the device carrier.

Set the engine speed to the maximum permissible speed for the attachment (see chapter "Setting the maximum permissible engine speed"). Higher speeds result in higher emissions.

Only mow with a sharp and undamaged blade.

Have the blade sharpened regularly (authorised service centre).

You can obtain a well-maintained area by mowing regularly. Areas that are not mown regularly, e.g. interspersed with perennial grass, woody shoots, shrubs, etc., cannot be mown without difficulty.

Adjust the driving speed to the mowing conditions so that the grass is cut evenly.

Avoid mowing areas where grass has already been cut to prevent blockages.

Beware! The cutter bar can be damaged by collision with obstacles.

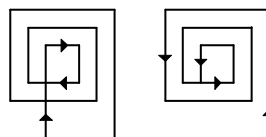
- Keep a lateral distance from obstacles.
- Do not mow into obstacles.

Remove the clippings after mowing.

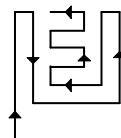
Recycle or dispose of the clippings properly or in accordance with local regulations.

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.

Frequent engagement and disengagement leads to increased wear of the drive belt and components of the drive. Especially engaging under load, e.g. in high grass, leads to overload.



In order to cut the grass on level ground and lay it down evenly, we recommend following the mowing patterns shown above.



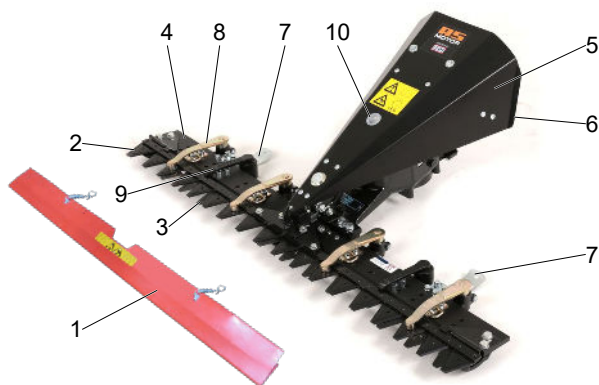
In order to cut the grass on the slope and lay it down evenly, we recommend following the mowing patterns shown above.

or safety reasons, always mow across the slope if possible.

If possible, always turn uphill.

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

Device description ESM cutter bar G90900102



- 1 Blade guard
- 2 Upper blade
- 3 Lower blade
- 4 Cutter bar
- 5 Cover
- 6 Coupling sleeve
- 7 Skids / cutting height adjustment
- 8 Upper blade guide arms
- 9 Lower blade guide arms
- 10 Cover cap for grease nipple drive lever bearing

Signs on the device (ESM cutter bar)

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:



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



The quickly moving blade can cause lift-threatening injuries or major property damage! Make sure to especially keep hands and feet away from the blades when the device is in operation.

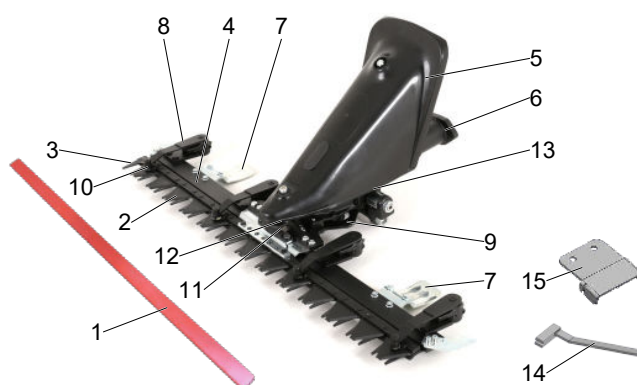


Risk of injury from sharp blades! Only remove the protective bar for mowing.



Maximum permissible engine speed when using the attachment.
Set the maximum permissible engine speed on the accelerator lever.

Device description LOSI cutter bar G90900103



- 1 Blade guard
- 2 Upper blade
- 3 Lower blade
- 4 Cutter bar
- 5 Cover
- 6 Coupling sleeve
- 7 Skids / cutting height adjustment
- 8 Upper blade guide arms
- 9 Head plate lower blade
- 10 Driver sleeves
- 11 Adjusting screw upper blade driver
- 12 Clamping screw of the adjusting screw
- 13 Screw plug for oil level check
- 14 Lever for lifting the guide arms
- 15 Template for adjusting the lower blade guide

Signs on the device (LOSI cutter bar)

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:



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



The quickly moving blade can cause lift-threatening injuries or major property damage! Make sure to especially keep hands and feet away from the blades when the device is in operation.



Risk of injury from sharp blades! Only remove the protective bar for mowing.



Maximum permissible engine speed when using the attachment.
Set the maximum permissible engine speed on the accelerator lever.

Setting the cutting height

⚠ Warning

Risk of injury from sharp working tools.

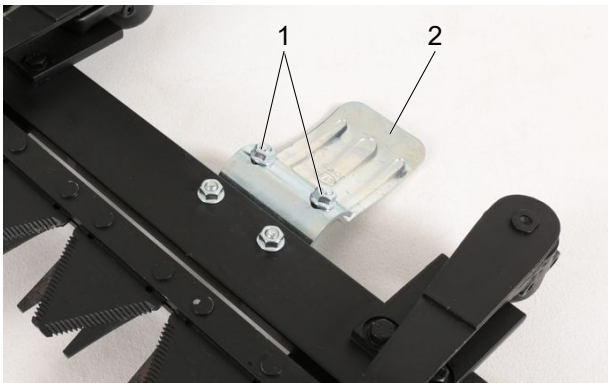
- ▶ Only adjust the cutting height when the engine is switched off.
- ▶ Wear protective gloves.

Set the cutting height high enough so that the blade does not touch the ground even if the terrain is uneven.

Set the cutting height to the same height on both sides to obtain an even cutting pattern.

The adjustment of the cutting height is stepless.

1. Place the device on a level surface.
2. Switch off the engine and wait until the attachment comes to a standstill.



3. Carefully lift the cutter bar.
Place e.g. wooden blocks under the cutter bar at the desired cutting height.
4. Slacken the nuts (1).
5. Swivel the skids (2) until the desired cutting height is reached.
6. Tighten the nuts (1).

Attachment flail bar G90900104

Intended use

The device is intended only for cutting grass or similar vegetation in well-maintained grounds in agriculture, forestry and preservation of the countryside that are cut at least once a year. Woody growth must not be older than maximally one year.

The device is only intended for operation with attachment carriers that have been approved by "AS-Motor Germany".

Any other use exceeding this purpose is inadmissible.

Observe the information in chapters Maintenance of device carriers and Attachment. 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!

In particular, the device **must not** be used:

- Observe the instructions in chapter of the device carrier.
- 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.
- as shredder for shredding tree and hedge cuttings.

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:



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



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.



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.

Safety instructions (attachment flail bar)

Observe the safety instructions at the beginning of these operating instructions.

Information on mowing

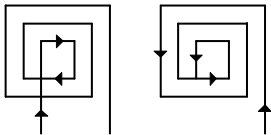
Observe the working instructions in the chapter of the device carrier.

Set the engine speed to the maximum permissible speed for the attachment (see chapter "Setting the maximum permissible engine speed"). Higher speeds result in higher emissions.

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.

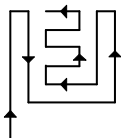
To keep the area well maintained, mow frequently and keep the grass short.

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.



In order to cut the grass on the slope and lay it down evenly, we recommend following the mowing patterns shown above.

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

Device description



- 1 Support foot
- 2 Coupling
- 3 Cutting height adjustment
- 4 Protection bow
- 5 Interlock steerable front wheel
- 6 Steerable front wheel
- 7 Protective flaps
- 8 Maintenance stand
- 9 Support for maintenance position

Adjusting cutting height

Set the cutting height high enough so that the blade does not touch the ground even if the terrain is uneven.

The adjustment of the cutting height is stepless.

1. Switch off the engine and wait until the attachment comes to a standstill.



2. Swing the safety bar (1) upwards.
3. Turn the crank (2) until the desired cutting height is reached.
4. Swing the safety bar (1) down to prevent unintentional adjustment of the crank when working.

Locking steerable front wheel

It is more comfortable on an even surface to let the front wheels swivel. If you move crossways to the slope, make sure the wheels are locked.

Attachment sweeping brush G90900105

Intended use

The device is exclusively intended for cleaning paved surfaces.

The device is only intended for operation with attachment carriers that have been approved by "AS-Motor Germany".

When working on and in public streets and squares, municipal regulations must be observed, if applicable.

Any other use exceeding this purpose is inadmissible.

Follow the instructions in the chapter Maintenance of the attachment carrier and the respective attachment. 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!

In particular, the device **must not** be used

- Observe the instructions in chapter of the device carrier.
- on public roads.
- for sweeping hazardous substances.

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:



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



Before repair and maintenance work, observe the safety instructions in the operating manual.



Secure the attachment carrier and the attachment against unauthorised use before leaving the device.



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.



Risk of injury!
Make sure that nobody is in the suspension area of the device.



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.



Warning of leaking high pressure fluid! Before repair and maintenance work, observe the safety instructions in the operating manual.



Wear suitable protective clothing.



Always wear safety shoes with good grip.



Wear suitable protective gloves.



Wear suitable safety glasses.



Wear suitable mouthguard.



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

Safety instructions (sweeping brush)

Observe the safety instructions at the beginning of these operating instructions.

Information on how to work

When working on and in public streets and squares, municipal regulations must be observed, if applicable.

Set the engine speed to the maximum permissible speed for the attachment (see chapter "Setting the maximum permissible engine speed"). Higher speeds result in higher emissions.

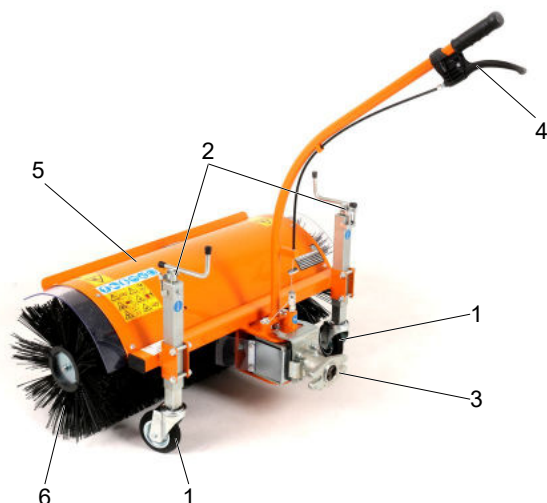
Adjust the engine speed to the respective work task.

An engine and brush speed that is set too high increases e.g. the generation of dust. Dirt and foreign objects are swirled around on the work surface. Unnecessarily high speeds lead to higher emissions and brush wear.

In snowy conditions or with stuck dirt, it may be useful to operate at high speed to obtain a good working result.

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.

Device description



- 1 Support wheel
- 2 Support wheel height adjustment
- 3 Coupling flange with coupling
- 4 Detent lever side adjustment
- 5 Housing
- 6 Brush

Sweeping brush side adjustment

Depending on the work task, it makes sense to set the sweeping brush at an angle. The sweeping brush can be swivelled to the right and left and locked into 3 positions.



1. Press the detent lever (1).
2. Swivel the sweeping brush to the desired position.
3. Release the detent lever and engage the sweeping brush in the desired position.

Adjusting the contact pressure of the brush

⚠ Caution

Risk of injury caused by ejected objects.

- Observe the safety instructions and the following instructions.

Only adjust the contact pressure of the brush when the engine is switched off.

The height adjustment on the support wheels is used to set the brush pressure.

Adjust the brush only so that it just touches the ground over the entire working width.

A lower position increases the brush pressure.

The cleaning performance improves with increasing brush pressure, especially in recesses and with stuck dirt.

Notice

Risk of damage if brush pressure is too high.

- Please observe the following instructions.

If brush pressure is too high:

- The brushes wear excessively.
- Parts of the surface to be worked on can come off and damage the device.
- Bristles can break, be thrown out and remain on the surface being worked on.

Excessive brushing pressure can be recognised by

- a sharp drop in engine speed
- Frequent stalling of the engine

Adjusting pressure of brushes



1. Swing the safety bar (1) upwards.
2. Turn the crank (2) until the desired brush position is reached.
3. Swing the safety bar (1) down to prevent unintentional adjustment of the crank when working.
4. Test the setting on a test area.

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 whose load capacity is intended for at least the weight of the device.

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

Close the fuel valve.

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.

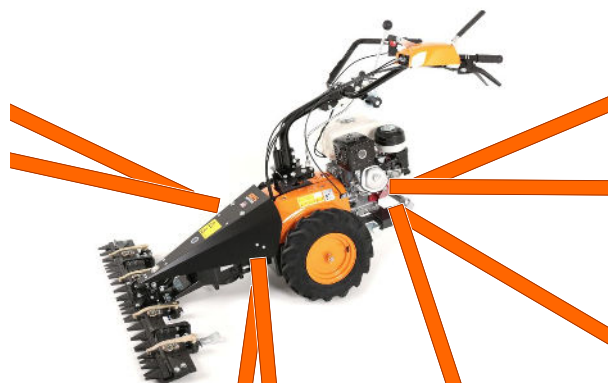
- Fasten the straps only at the points shown in the figure.
- Do not overtighten the straps.

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. Secure the device with belts to the frame elements that can hold the weight.

Device carrier



Cutter bar



Flail mower



Unloading the device

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



Sweeping brush



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 objects are in the danger area of the blade.
- ▶ 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.

Warning

Fire hazard

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

- ▶ Please observe the safety instruction regarding the fire risk.

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 the plug connector.
3. Close the fuel valve.

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.

Maintenance and cleaning position

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.

To perform maintenance, repair or cleaning tasks at the bottom of the device, you can lift or tilt the device.

- Lift the device only when on level and firm terrain.
- Use only lifting gear or ramps that are suitable for the weight of the device.
- Attach the lifting gear only to the main frame because only the main frame can carry the weight.
- Secure the device always against tilting, falling down or slipping.
- Do not stay in the tilting area of the device.
- Do not tilt the device more than indicated in the safety instructions regarding driving on the slope. Otherwise the device can tilt and the device can be damaged or contaminations can occur due to leaking fluid.
- Do not carry out tasks that can result in tilting, falling down or slipping of the device.

Maintenance overview

Component	Action	Maintenance interval	
		A	B
Device carrier			
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.	■	■▲
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.	□	▲
Device	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).		▲
Hydrostatic transmission	Check oil level and leakage.		▲
	Clean the cooling fins.		▲
	Oil change after the first 40 hours of operation.		▲
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.	■	▲

Attachment cutter bar			
Attachment	Check for safe working condition (basic inspection).	■	▲
	Clean.	■	
	Customer service.		▲
Blade and fastening components	Check for wear and damage. See chapter Checking the blade.	■	▲
	Change.		▲
Coupling working tool	Does the working tool stop within a few seconds?		▲
Label	Condition of the labels.	■	▲
Lubrication	See chapter Grease lubrication (every 4 operating hours).	■	▲■
Blade drive	Check the oil level. First oil change after 50 operating hours, thereafter every 400 operating hours, at least annually.		▲
	Check for leaks.	■	
Attachment flail cutter			
Attachment	Check for safe working condition (basic inspection).	■	▲
	Clean.	■	
	Customer service.		▲
Blade and fastening components	Check for wear and damage. See chapter Checking the blade.	■	▲
	Change.		▲
Coupling working tool	Does the blade stop within 7 seconds?		▲
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.	■	▲
Lubrication	See chapter grease lubrication.	■	▲■
Bevel gear	Check the oil level.		▲

Attachment sweeping brush			
Attachment	Check for safe working condition (basic inspection).	■	▲
	Clean.	■	
	Customer service.		▲
Brush and fastening parts	Check for wear and damage	■	▲
Bowden cables	Check for proper function and ease of movement.	■	▲
Coupling working tool	Does the working tool stop within a few seconds?		▲
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.	■	▲
Lubrication	See chapter grease lubrication.	■	▲ ■
Bevel gear	Check the oil level.		▲

- 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 carrier and attachment

You should clean the device and the attachment thoroughly after each use.

Grass cuttings and dirt that are stuck result in higher wear, 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 silencer 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.

Observe the information in the chapter of the respective attachment.

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.

Maintenance device carrier

Hydrostatic transmission

Change the oil after the first 40 hours of operation at the latest (authorised service centre).

The hydrostatic transmission is then maintenance-free and filled with oil for its service life. Check that it is tight and undamaged.

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),
 - 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 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).

Maintaining the air filter

⚠ Warning

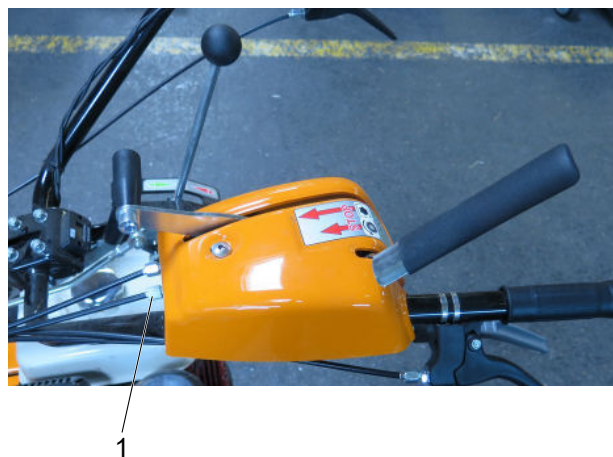
There is a fire and explosion risk due to cleaning agents.
► Never clean the air filter with flammable solvents.

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

Checking the drive

1. Place the device on a surface with a good grip (e.g. concrete or asphalt).
2. Switch on the engine.
3. Select a low forward speed.
4. Actuate the safety lever – device starts moving.
5. Try to stop the device.

If you cannot stop the device, the drive is set correctly. If you can stop the device, the drive must be readjusted.



Readjusting the drive

Turn out the adjusting screw (1) on the drive until the device can no longer be stopped by hand when the drive is actuated. If there is no improvement after the adjustment, have the device checked by an authorised service centre.

Checking coupling for working tool

Check the function of the coupling by disengaging the working tool. The working tool must stop from full speed within a few seconds. Contact an authorised service centre if this is not the case.

Adjusting the coupling of the working tool



If the working tool is not driven correctly during operation, the V-belt tension can be readjusted.

Turn out the adjusting screw (2) on the coupling lever only so far that there is sufficient drive power for the working tool when the coupling lever is actuated and the V-belt does not slip.

Check the function of the coupling for the working tool.

If there is no improvement after the adjustment or if the work tool does not stop within a few seconds, 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. Activate the parking brake.
4. Actuate both steering levers.
5. Try to pull the device backwards.

If the left rear wheel locks, the parking brake is set correctly. If the device can be pushed, the parking brake must be readjusted by an authorised service centre.

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. Fold up the handlebar.
4. Check the air pressure of the tyres (see technical data) and mount the wheels.
5. Mount the accelerator lever on the steering bar.
6. Actuate both steering levers.
7. Push the device off the pallet.
8. Place the attachment on the support leg.

Maintenance ESM cutter bar

Cleaning the cutter bar

Observe the information in chapter of the device carrier.

Clean the cutter bar thoroughly after each use.

Stuck grass cuttings and dirt impair the cutting quality and increase wear.

Remove stubborn dirt with a wooden or plastic spatula.

Only spray the cutter bar with a jet of water! Do not use any aggressive cleaning agents.

General inspection

Observe the information in chapter of the device carrier.

Immediately replace damaged or worn parts of the blade drive and blades (authorised service centre).

Check the blade drive for leaks and good condition.

In case of leaks contact an authorised service centre.

Checking the blade

The cutter blades of the upper and lower blades must be sharp for a good cutting pattern and low power input from the drive. Cutting edges that have been damaged by stones or other objects must be re-sharpened in a specialist workshop or the blade replaced.

Servicing the cutter bar

⚠ Warning

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

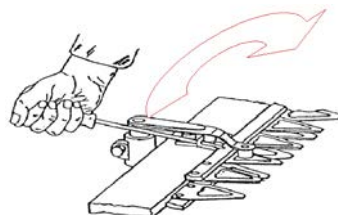
- Check the blades and all fastening elements according to the following instructions.

⚠ 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.

To clean the cutter bar and all sliding and guiding surfaces, remove the upper blade after each mowing.



1. Using a screwdriver, raise the upper blade guide arms.
2. If necessary, remove the blade guard.
3. Tilt the upper blade forwards with both hands and remove the upper blade.
4. Lift the lower blade with a screwdriver and remove the lower blade upwards.

5. Check the blades for damage to the cutter blades. Have dull blades re-sharpened.
6. Oil all sliding and guiding surfaces.
7. Reinstall the blades in reverse order.

Notice

There is a risk of damage to the rubber blocks if the upper blade guide arms are left open for a long time.

- Do not leave the upper blade guide arms in the open position for a long time.

Notice

Risk of damage due to incorrect installation of the blades.

- When fitting the blades, make sure that the drive pins of the guide blades are inserted into the drive sleeves of the lower blade guide arms and are sufficiently greased.

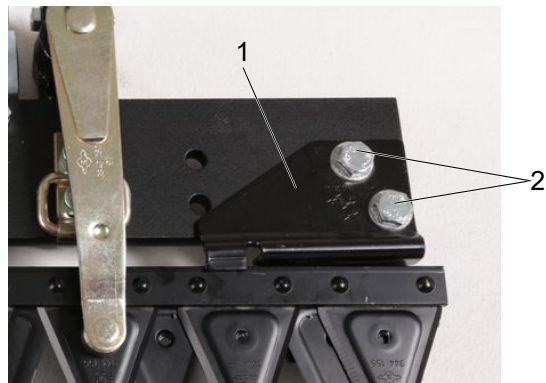
Dismantle the blades before prolonged storage. Store the blade in a clean, dry and closed room and out of reach of unauthorised persons.

Checking the blade driver

Check the clearance between the blade driver and the drive element. If there is too much clearance, the blades can break.

Non-adjustable blade drivers must be replaced if the clearance is > 1 mm.

Adjusting the blade guide plates



The blade guide plates (1) prevent the blades from jumping up and bending when they hit an object.

1. Move the upper blade to the outermost position.
2. Slacken the screws (2).
3. Move the blade guide plate (1) in the direction of the blades. The distance between the plate and the blades must be at least 1 - 2 mm.
4. Tighten the screws (2).
5. Adjust the other blade guide plate in the same way.

Resharpener the blades

For a clean cut and trouble-free mowing result, only mow with a sharp and undamaged blade.

Have the blade sharpened regularly (authorised service centre). Sharpen the cutting edges of the double blades at an angle of 40°.

Notice

Risk of damage due to incorrect resharpener.

- Do not allow the blade edges to turn blue when re-sharpener. Otherwise the blades will dull more quickly.

Changing the blades

To change the blades, proceed as described in the chapter Servicing the cutter bar". Replace the blades.

Only use original spare parts from AS-Motor.

Checking coupling for working tool

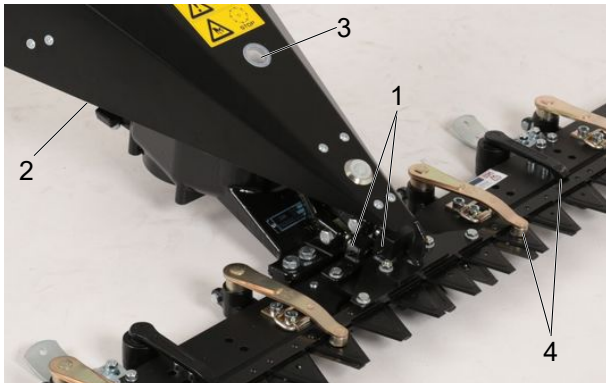
Check the function of the coupling by disengaging the working tool at maximum permissible engine speed. The working tool must come to a complete stop within a few seconds. Contact an authorised service centre if this is not the case.

Checking the oil level of the blade drive



1. Place the device on a level surface.
2. Unscrew the screw plug (1) to check the oil level. Check if oil is leaking.
3. If necessary, top up with oil.

Grease lubrication



A grease nipple is fitted to the joint pin of the cutter bar (1), pendulum flange (2) and drive lever bearing (3) respectively.

1. Clean the lubricating nipple.
2. Lubricate the lubricating nipples with a grease gun (1-2 strokes pressure-resistant grease).
3. Remove excess grease that has been pressed out of the bearing points.
4. All driving pins (4) on the cutting edges of the upper and lower blades must be greased after each cleaning and before each removal and installation.

Assembly

Scope of delivery

The device is shipped in two cartons.

The scope of delivery includes:

- Mower drive and cutting unit.
- Connecting bolts.
- Coupling sleeve.
- This operating manual.

Unpacking the attachment

The assembly of the attachment and the first commissioning must be carried out by an authorised service centre.

Maintenance LOSI cutter bar

Cleaning the cutter bar

Observe the information in chapter of the device carrier.

Clean the cutter bar thoroughly after each use.

Stuck grass cuttings and dirt impair the cutting quality and increase wear.

Remove stubborn dirt with a wooden or plastic spatula.

Only spray the cutter bar with a jet of water! Do not use any aggressive cleaning agents.

General inspection

Observe the information in chapter of the device carrier.

Immediately replace damaged or worn parts of the blade drive and blades (authorised service centre).

Check the blade drive for leaks and good condition.

In case of leaks contact an authorised service centre.

Checking the blade

The cutter blades of the upper and lower blades must be sharp for a good cutting pattern and low power input from the drive. Cutting edges that have been damaged by stones or other objects must be re-sharpened in a specialist workshop or the blade replaced.

Servicing the cutter bar

⚠ 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.

To clean the cutter bar and all sliding and guiding surfaces, remove the upper blade after each mowing.



1. Lift the upper blade guide arms using the lever (14) and swing them aside.
2. If necessary, remove the blade guard.
3. Tilt the upper blade forwards with both hands and remove the upper blade.
4. Check the blades for damage to the cutter blades. Have dull blades replaced or resharpened.
5. Oil all sliding and guiding surfaces.
6. Reinstall the blades in reverse order.

Dismantle the blade before prolonged storage. Store the blade in a clean, dry and closed room and out of reach of unauthorised persons.

Checking, adjusting and greasing the blade drivers



If there is too much clearance at the upper blade carrier, loud noises occur and the blades can break. In case of loud noises and every time the blade is changed, the clearance must be checked and readjusted if necessary.

Notice

Risk of damage by setting the clearance in the middle position.

► Always move the upper blade to the outermost position.

1. Remove the cover (5).
2. Move the upper blade (2) to the outermost position.
3. The clearance between the adjusting screws (11) and the ball must not exceed 0.1 mm.

Setting the clearance

1. Move the upper blade (2) to the outermost position.
2. Slacken the clamping screws (12).
3. Turn the adjusting screws (11) until the clearance to the ball is a maximum of 0.1 mm.
4. Tighten the clamping screws (12).
5. Grease the area between the ball and the adjusting screws.
6. Mount the cover (5).

Setting the lower blade guide

The lower blade guide can be adjusted by an authorised service centre with the aid of the template (15).

Changing the blades

To change the blades, proceed as described in the chapter Servicing the cutter bar. Replace the blades.

Only use original spare parts from AS-Motor.

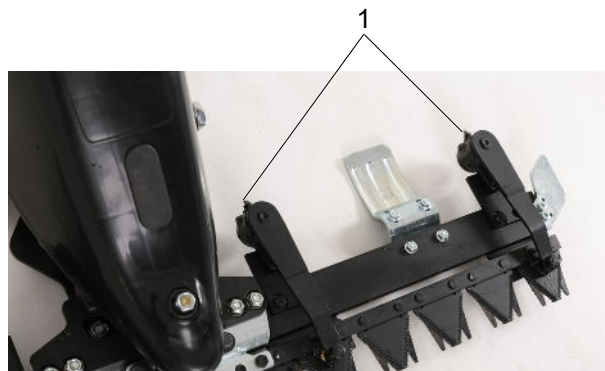
Checking coupling for working tool

Check the function of the coupling by disengaging the working tool at maximum permissible engine speed. The working tool must come to a complete stop within a few seconds. Contact an authorised service centre if this is not the case.

Checking the oil level of the blade drive

1. Place the device on a level surface.
2. Unscrew the screw plug (13) to check the oil level. Check if oil is leaking.
3. If necessary, top up with oil.

Grease lubrication



A grease nipple is fitted to each of the bearings of the blade guide arms (1) of the cutter bar.

1. Clean the lubricating nipples.
2. Lubricate the lubricating nipples with a grease gun (1-2 strokes pressure-resistant grease).
3. Lift the upper blade guide arms using the lever (14) and swing them aside.
4. Lubricate the driving pins in the driving sleeves (10) with a brush.
5. Hook the upper blade guide arms back into the drive pins.
6. Remove excess grease that has been pressed out of the bearing points.

Assembly

Scope of delivery

The device is shipped in two cartons.

The scope of delivery includes:

- Mower drive and cutting unit.
- Connecting bolts.
- Lever for raising the guide arm.
- Template for adjusting the lower blade guide.
- This operating manual.

Unpacking the attachment

The assembly of the attachment and the first commissioning must be carried out by an authorised service centre.

Maintenance attachment flail bar



For work on the underside set up the attachment with the maintenance support.

Cleaning the flail bar

Observe the information in chapter of the device carrier.

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 silencer 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

Observe the information in chapter of the device carrier.

Immediately replace damaged or worn parts of the blade drive and blades (authorised service centre).

Check the blade drive for leaks and good condition.

In case of leaks contact an authorised service centre.

Grease lubrication



There is a grease nipple (1) on both swivel wheels.

1. Clean the lubricating nipple.
2. Lubricate the lubricating nipple with a grease gun (1-2 strokes of plastic-compatible grease).
3. Remove excess grease that has been pressed out of the bearing points.

Checking the blade and flail shaft

⚠ 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.

Working with the blade and the blade shaft requires special skills and therefore may only be carried out by an authorised service centre.

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

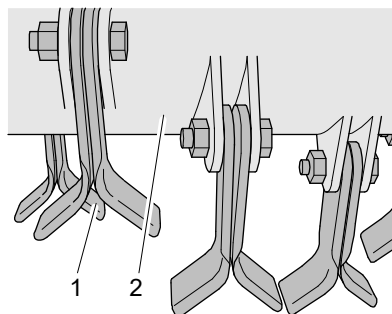
- if damage or cracks are detected.
- if unusually strong vibrations occur.
- at least once a year or every 50 operating hours, no matter if wear does exist or not.

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

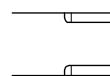
Unusual vibrations are an indication that

- 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

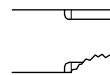


New blade



Replacing the blade

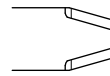
- broken



- bent

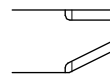


- worn on both sides



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.

Changing the blades

To change the blades, proceed as described in the chapter "Servicing the cutter bar". Replace the blades.

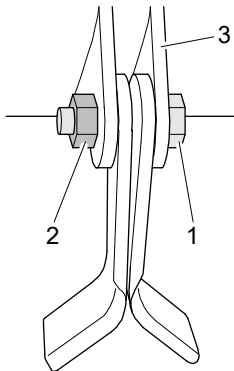
Only use original spare parts from AS-Motor.

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.



During mowing, the fastening elements wear. Replace the fastening screws (1) and the corresponding nuts (2),

- when their diameter is worn for more than 1 mm and
- during each blade change.

Use only original AS-Motor spare parts.

During each blade change, check the flail shaft for damages. The mounting plates (3) must not be damaged, bent, or worn. Contact an authorised service centre if damage, cracks or wear has occurred.

Assembly

Scope of delivery

The device is shipped in a carton.

The scope of delivery includes:

- The device.
- This operating manual.

Unpacking the attachment

The assembly of the attachment and the first commissioning must be carried out by an authorised service centre.

Maintenance attachment sweeping brush

Cleaning the device

Observe the information in chapter of the device carrier.

You should clean the device thoroughly after each use.

Stubborn dirt impairs the function of the brush.

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

Only spray the sweeping brushes with a soft jet of water! Do not use any aggressive cleaning agents.

General inspection

Observe the information in chapter of the device carrier.

To make sure that the device can be operated safely, check all nuts, bolts, screws etc. regularly for firm seating.

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

Check all parts that contain fluids for leaks and proper condition. These can be: Gearbox.

In case of leaks contact an authorised service centre.

Grease lubrication



A grease nipple (1) is fitted to the height adjustment of the swivel wheels, to the detent pin of the side adjustment and to the PTO shaft flange respectively.

1. Clean the lubricating nipples.
2. Lubricate the lubricating nipples with a grease gun (1-2 strokes pressure-resistant grease).
3. Remove excess grease that has been pressed out of the bearing points.

Checking the brushes

Notice

Unbalance on the brush system leads to destruction of the gearbox and brush bearings.

- ▶ Never operate a device with an unbalance at the brush system.
- ▶ Please observe the following notices.

Check the brushes and fastening elements regularly prior to use and with noticeable changes for wear, damage and firm seating.

Strong noises or vibrations indicate an imbalance in the brush system. An imbalance can be caused by one-sided wear of the brushes or improperly used brushes.

A change of the brushes is necessary

- When the bristles no longer touch the floor and the height adjustment can no longer be readjusted.
- If an unbalance exists.
- If the brushes are worn out unevenly.
- when the brushes are heavily stuck with dirt and can no longer be cleaned.

Changing the brushes

- Change the brushes only in pairs.
- For replacement of the brushes use only new brushes, never used ones (unbalance).
- 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.



1. Slacken the nuts (1) on the side of the brush (2).
2. Pull the brush (2) out of the brush holder.
3. Push the new brushes all the way into the brush holder. Make sure that the drivers on the gearbox engage in the grooves of the brush.
4. Tighten the nuts (1).
5. Change the second brush in the same manner.
6. Set the brush height to the highest position.

Assembly

Scope of delivery

The device is shipped in a carton.

The scope of delivery includes:

- The device.
- This operating manual.

Unpacking the attachment

The assembly of the attachment and the first commissioning must be carried out by an authorised service centre.

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 device cool down for at least 20 minutes before you store it.

Also observe the information regarding storage in the operator's manual of the engine manufacturer.

Longer storage

1. Observe the safety instructions for handling the fuel.
2. Run the fuel tank empty.
3. Emptying carburetor: Close the fuel valve, start the engine and let it run until it stops by itself.
4. Thoroughly clean the device.
5. Touch up any possible damage to the paint finish (for paint, see Accessories).

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

Also observe the information regarding storage in the operator's manual of 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 "AS-Motor Germany". 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

Recycle or dispose of the clippings properly or in accordance with local regulations.

Depending on the vegetation and soiling of the area to be cleaned, regulations for the disposal of street sweepings must be complied with. For this, contact the responsible municipal or city 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

Please see our AS-Motor website for warranty information.

Please print out the documents that you receive during the online registration. Keep them together with your sales receipt.

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.

Fault	Possible cause	Remedy
Device carrier		
Engine does not start	Engine stop switch is set to OFF.	Use accelerator lever to set engine stop switch to ON.
	Fuel valve is closed.	Open fuel valve.
	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 Maintenance).
	Spark plug is dirty, damaged, or incorrect electrode gap.	Clean spark plug and check electrode gap (see Maintenance). Replace spark plug if necessary.
	Poor quality, dirty, or old fuel.	Clean fuel system (authorised service centre). 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 safety lever is actuated	Drive speed lever to STOP.	Select speed.
	Drive belt is insufficiently tensioned.	See also Checking the drive.
The working tool does not turn or move	V-belt is insufficiently tensioned or damaged.	Readjust the coupling of the working tool.
	Bowden cable is defective.	Authorised service centre.
The working tool does not turn or move when the coupling lever is switched off	The V-belt is tensioned too much.	Check or adjust coupling of the working tool or authorised service centre.
Irregular noises	Loose fastening elements.	Authorised service centre.
	Silencer is defective.	Authorised service centre.
	Hydrostatic drive is overheated.	Cool down (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.
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 tires.	If necessary, use tire protection gel (authorised service centre).
Attachment cutter bar		
Abnormal noises and unusual vibrations	Engine speed is too high.	Set the maximum permissible motor speed (see chapter Setting the maximum permissible engine speed).
The blade does not move	Drive is not mounted.	Mount driver.
	Centre drive defective.	Authorised service centre.
Cut material settles between the upper and lower blade	Mower blades are dull.	Authorised service centre.
	Blade is bent due to collisions with foreign objects.	Authorised service centre.
	The blades of the cutters are not aligned.	Authorised service centre.
	Lower guide arms are bent.	Authorised service centre.
Unusually strong vibrations during operation	Foreign object in cutter bar.	Remove foreign object.
	Blade is broken.	Authorised service centre.
	Blade is bent due to collisions with foreign objects.	Authorised service centre.
Cutter bar rattles	Pins of the lower blade guide blade do not lie in the locating holes of the lower blade guide arms.	Fold up the upper guide arms and insert the pins of the guide blades into the locating holes of the lower blade guide arms. Authorised service centre.
Poor cutting	Blade is dull or worn.	Authorised service centre.
	Speed is too high.	Reduce speed and/or select the correct cutting height.
	Cutter bar very dirty.	Clean.
Attachment flail cutter		
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	Unbalance due to missing, broken, cracked or unevenly worn blades.	Checking the blade and flail shaft (see Maintenance).
	Flailshaft is bent due to collisions with foreign objects.	Authorised service centre.
	Blade fastening is loose.	Authorised service centre.
Irregular noises	Loose fastening elements.	Authorised service centre.

Troubleshooting

Poor cutting	Blade is dull or worn.	Have someone replace a damaged blade immediately (authorised service centre).
	Speed is too high in relation to the cutting height.	Reduce speed and/or select the correct cutting height.
	Housing of the device is heavily contaminated.	Clean.
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.
Housing 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.
Attachment sweeping brush		
Brushes do not turn	Angular drive damaged.	Tighten brushes or authorised service centre.
	Brushes loose.	Authorised service centre.
Strong vibrations during operation	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.
	Brush strip fastening is loose.	Authorised service centre.

Accessories

Twin tires:	G90999101
Spray paint 400 ml, colour orange:	G00011050
Clinometer:	G06950027
Flat tyre protection 950 ml:	G00041068
Flat tyre protection 20 l:	G00041069
Pump for flat tyre protection 20 l:	G00041070
ESM cutter bar:	G90900102
Set collision protection (ESM cutter bar):	G90999102
LOSI cutter bar:	G90900103
Attachment flail cutter 68 cm:	G90900104
Attachment sweeping brush 100 cm:	G90900105

Technical data – Device carrier

Type	AS 600 MultiPro
Range of application (temperature)	0 - 30 °C For temperatures below 5 °C, observe the engine manufacturer's information regarding the engine oil.
Engine, type Manufacturer Type Cylinder capacity Performance Engine speed	One cylinder four stroke engine Honda GX 270 OHV 270 cm ³ 5,6 kW (7,6 PS) 2900 min ⁻¹
Drive for attachments PTO shaft speed	PTO shaft with claw coupling 780 min ⁻¹ (for 2900 min ⁻¹)
Maximum permissible engine speed	See technical data of the respective attachment.
Starting device	Rope start
Traction drive Speed forward Speed reverse	Hydrostatic transmission with single wheel steering coupling 0 - 5,3 km/h 0 - 2,4 km/h
Measures and weights Transport size with packaging L/W/H Operating dimensions L/W/H Weight	119/79/90 cm 112/70/110 cm 87 kg
Capacities Fuel tank Engine oil Engine air filter oil bath Hydrostatic transmission	5,3 litres 1,1 litres SAE 20W-50 / SAE 30 66 cc, SAE 10W-30 / SAE 30 1,8 litres, SAE 10W-60
Sound level	See specification for attachments
Vibration emission value	See specification for attachments
Tyre pressure	1,5 bar

Technical data - ESM cutter bar

Type	ESM cutter bar
Manufacturer Type Attachment Blade stroke relative Tooth spacing Tooth cut	ESM GmbH & Co. KG Double blade with 2-fold rocker arm guide Pendulum mounted 84 mm 70 / 84 m smooth
Cutting width	126 cm
Cutting height	steplessly adjustable skid 4 - 12 cm
Gearbox Filling quantity	Centre drive in oil bath, ball bearings 0,8 litres, SAE 80W-90 API GL
Drive by device carrier Maximum permissible engine speed Admissible PTO speed	AS 600 MultiPro 2600 min ⁻¹ 700 min ⁻¹
Maximum area coverage	6000 m ² /h
Measures and weights Transport size with packaging L/W/H (cutter bar) Transport size with packaging L/W/H (centre drive) Weight Operating dimensions L/W/H (with device carrier) Weight (with device carrier)	160/31/9 cm 75/45/40 cm 64 kg 176/126/110 cm 154 kg
Noise level , according to DIN Measured sound level L _{WA} Sound level at working place L _{PA} Measurement uncertainty k	2600 min ⁻¹ (maximum permissible engine speed) 98,8 dB 86,5 dB 3,0 dB (A)
Vibration emission value according to DIN Hand-arm-vibrations a _{h,w} Measurement uncertainty U	5,1 m/s ² 2,0 m/s ²

Technical data - LOSI cutter bar

Type	LOSI cutter bar
Manufacturer Type Attachment Blade stroke relative Tooth spacing Tooth cut	LOSI Vittorio s.n.c di Losi Roberto & C.s.n.c Double blade with 1-fold rocker arm guide Pendulum mounted 85 mm 85 / 42,5 mm serrated
Cutting width	117 cm
Cutting height	steplessly adjustable skids 4 - 12 cm
Gearbox Filling quantity	Centre drive in oil bath 0,5 litres, ISO 680
Drive by device carrier Maximum permissible engine speed Admissible PTO speed	AS 600 MultiPro 2400 min ⁻¹ 650 min ⁻¹
Maximum area coverage	4700 m ² /h
Measures and weights Transport size with packaging L/W/H (cutter bar) Transport size with packaging L/W/H (centre drive) Operating dimensions L/W/H (with device carrier) Weight Weight (with device carrier)	120/30/10 cm 66/37/32 cm 178/125/110 cm 49 kg 139 kg
Noise level , according to DIN Measured sound level L _{WA} Sound level at working place L _{pA} Measurement uncertainty k	2400 min ⁻¹ (maximum permissible engine speed) 100,0 dB 89,2 dB 3,0 dB (A)
Vibration emission value according to DIN Hand-arm-vibrations a _{h,w} Measurement uncertainty U	8,7 m/s ² 2,0 m/s ²

Technical data - Attachment flail cutter bar

Type	Attachment flail cutter
Cutting device , type Cutting width Cutting height	16 Y-flails 68 cm 3 - 11 cm, steplessly adjustable via crank
Gearbox Filling quantity	Angular gear in oil bath 0,2 litres, SAE 80W-90
Drive by device carrier maximum permissible engine speed admissible PTO speed	AS 600 MultiPro 2900 min ⁻¹ 800 min ⁻¹
Maximum area coverage	2000 m ² /h
Measures and weights Transport size with packaging L/W/H Operating dimensions L/W/H (with device carrier) Weight Weight (with device carrier)	104/77/61 cm 203/80/110 cm 70 kg 160 kg
Noise level , according to DIN Measured sound level L _{WA} Sound level at working place L _{pA} Measurement uncertainty k	2900 min ⁻¹ (maximum permissible engine speed) 95,3 dB 84,6 dB 3,0 dB (A)
Vibration emission value according to DIN Hand-arm-vibrations a _{h,w} Measurement uncertainty U	 4,6 m/s ² 2,0 m/s ²

Technical data - Attachment sweeping brush

Type	Attachment sweeping brush
Brush, type Working width Brush pressure	Plastic brush, swivelling right / left 100 cm steplessly adjustable via height-adjustable wheels
Gearbox Filling quantity	Angular gear in oil bath 0,15 litres, SAE 90
Drive by device carrier maximum permissible engine speed admissible PTO speed	AS 600 MultiPro 2900 min ⁻¹ 800 min ⁻¹
Maximum area coverage	5000 m ² /h
Measures and weights Transport size with packaging L/W/H Operating dimensions L/W/H (with device carrier) Weight Weight (with device carrier)	126/87/48 cm 185/108/110 cm 61 kg 153 kg
Noise level , according to DIN Measured sound level L _{WA} Sound level at working place L _{pA} Measurement uncertainty k	2900 min ⁻¹ (maximum permissible engine speed) 94,8 dB 82,3 dB 3,0 dB (A)
Vibration emission value according to DIN Hand-arm-vibrations a _{h,w} Measurement uncertainty U	3,4 m/s ² 2,0 m/s ²

Declaration of conformity

We declare that the device carries

Type	AS 600 MultiPro
Starting from serial no.	03632007001

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

- 2006/42/EC
- 2014/20/EC

Function:

The device is only intended for operation with attachments that have been approved by "AS-Motor Germany".

Observe the information on intended use in the chapter of the respective attachment and the Technical data.

Applied standards:

EN 12733

Place where all technical records are filed:

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

Bühlertann, in October 2020



Eberhard Lange
Managing director



By proxy Frank Einsiedler
Head of development



THE HIGH GRASS MOWER AND 2 STROKE ENGINE MANUFACTURE

AS-Motor is your premium manufacturer for lawn and high grass mowers as well as 2 stroke engines. 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 the world's first all-wheel ride-on mower with remote control will always offer private customers, municipalities service providers 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 30 countries all over the world.

Mulching mower	Mulching mower – the time-saving alternative! AS-Motor 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.
Brush cutter®	An agile lawn mower for maintenance of extensive grassed areas. The Allmäher® reliably mows and mulches metre-high grass, brushes and weeds.
Flail mower	High grass with undergrowth, steep slope or extensive areas in unknown terrain? The movably mounted flail blades of the AS-Motor flail mower give way to rocks and obstacles and chop the cuttings several times over.
Ride-on brush cutter	If extensive areas, weeds and undergrowth up to 1.2 m, the AS-Motor all-wheel mowers are also perfect for steep and even extremely steep terrain. Ease of use and high area performance combined in one compact ride-on mower. For more safety, comfort and efficiency in difficult terrain we have developed the innovative and the world's first remote controlled ride-on mower.
Rotary mower	The cost-effective alternative to the cutter-bar mower. Also ideal for feed production. The grass is not shredded but deposited in straight rows as a windrow next to the machine.
Weed remover	Careful and chemical-free weed removal. The AS-Motor weed removers “WeedHex” mechanically clean paved areas and curb stones from growing weeds – quickly, safely, and efficiently.

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