Operating Instructions

Weed remover
AS 30E-WeedHex

Starting from serial No.: 038422020001

EN Translation of the original operating instructions
Release: 06/05/2022, V1.1EN

www.as-motor.com

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EN Basic information

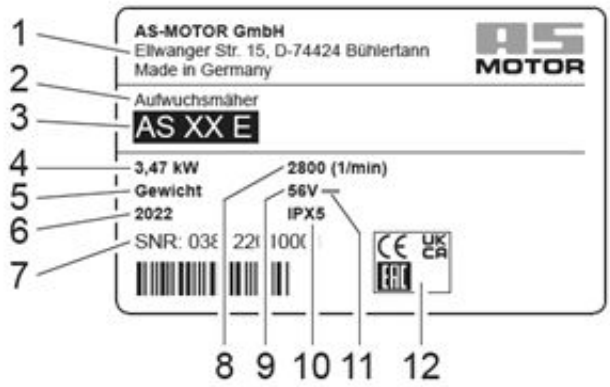
Request the machine unpacking and basic training from your dealer as part of the pre-sale service!

Please, fill in all data concerning your device. When ordering spare parts notify your dealer of the serial numbers of the device and the motor.

EN Type	**AS 30 E-WeedHex**
EN Motor type	
EN Identification No.[1]	
EN Motor serial No.[2]	
EN Date of delivery/sale	
EN Supplier (stamp)	

We advise you to make your own copy of this page with the filled-in machine purchase data in case of loss or theft of the original manual.

An example of a type plate on the device providing information about the type of the device and its technical data.

Appearance	Description
	**1** Manufacturer's name and address **2** Machine designation **3** Type designation **4** Maximum motor power **5** Weight (batteries and brush not included) **6** Year of manufacture **7** Serial number **8** Motor speed in the TURBO mode **9** Nominal voltage **10** Enclosure **11** DC voltage **12** CE mark

1 *Fill in the serial number from the type plate.*
2 *Fill in the serial number from the motor type plate of the motor, located on the rear motor flange.*

EN Operating instructions

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*The manufacturer **reserves** the right to implement technical changes and innovations not affecting the operability and safety of the machine. These changes may not show in these Operating Instructions.*

Printing errors reserved.

1.1 Introduction

Dear customer,

Congratulations on your purchase! You have acquired a reliable quality product by "AS-Motor GmbH". This product has been manufactured according to up-to-date manufacturing methods and in line with comprehensive quality assurance measures. Only when you are satisfied with your device, we have achieved our goal.

Read these operating instructions carefully so that your device operates smoothly and you and others are safe from any hazards.

International partners are invited to visit our website at https://www.as-motor.com/company/international/.

„AS-Motor GmbH" wishes you much joy with your new machine.

1.1.1 General Notice

This product is exclusively intended for cleaning paved surfaces and edges covered with moss and weeds.

Use only attachments and tools authorized by "AS-Motor GmbH".

Any use beyond this purpose is not permitted. The manufacturer shall not be made responsible for any damage resulting from any such unauthorized use. Follow the required maintenance and repair guidelines.

The product user shall be responsible for any accidents or injury to other persons or damage to their property!

In particular, the product must not be used:

- on roads.

- as a unit in a system for any type of work tools/tool sets not approved by "AS-Motor GmbH".

- for sweeping or mowing on unpaved surfaces.

The product mus not be connected to and/or used with batteries that are worn by a human on their body. This also applies to batteries carried on one's back. A battery designed for carrying on on one's back may be used only if tightly fixed to the machine by using parts approved by „AS-Motor GmbH".

The user is **obliged** to read these Operating Instructions thoroughly and follow all the machine operating instructions in order to prevent any health risks or damage of the user's or other persons' property.

The safety instructions specified in these operating instructions do not cover all the possible conditions and situations that may occur in practice. Safety factors such as a reasonable approach, care and caution are not described in these operating instructions but are assumed to exist with every person using the machine or doing any maintenance on it.

Only mentally and physically fit persons are permitted to operate this machine. Where the machine is used to be used on a professional basis, the machine owner is obliged to provide the operator(s) with occupational safety training and machine operation training, and keep records of such training. **The machine owner must also assess the work in the context of applicable local legislation.**

If you do not understand any piece of information contained in this manual, please contact **your dealer**[3] or directly the **product manufacturer**.

Operating instructions provided with this machine form an integral part of it. The document must be available at all times, stored at a safe accessible place. When selling the machine to another person/entity, the operating instructions must be handed over to the new owner. The manufacturer bears no responsibility for the risks, hazards, accidents or injuries resulting from operation of the machine if the above-mentioned conditions and requirements were not met.

The manufacturer bears no responsibility for the damage caused by any unauthorized use, inappropriate operation or damage caused by any machine modification made without the manufacturer's approval.

During work, follow all applicable safety regulations to avoid any injury to yourself or other persons present nearby and to avoid any property damage.

Such instructions are marked with the following warning symbol in the operating instructions:

	If you see this symbol in the operating instructions, read thoroughly the statement that follows it.
	This international safety symbol indicates important safety-related instructions. If you see this symbol, be alert to avoid your or other persons' injury and carefully read the statement that follows the symbol.

Table 1: Symbols

1.2 Safety Regulations

For your safety, read thoroughly this user's manual and manuals for the use of the batteries, charger and electric motor.

Familiarize yourself with the control elements and the proper use of the device. Share these operating instructions with other users of the device.

Before you use the device for the first time, ask the dealer to instruct you regarding its safe use.

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

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

1.2.1 User restrictions

Never allow children or persons who are not familiar with the operating instructions to use the device.

Persons under 18 years of age may operate the device only under proper supervision. Local regulations determine the minimum age of the operator and the operating times.

The device must not be operated by the persons under the influence of alcohol, drugs or reaction retarding medicines or persons with physical and mental/emotional impairments or tired or sick persons.

	Electric shock hazard!		Exposing the device to rain or to work in humid environment is prohibited.
	Persons with pacemakers may not operate this machine.		Careless handling or incorrect storage of the battery may lead to explosion or fire.

1.2.2 Lithium-ion batteries: safety provisions

	Sound lithium-ion batteries are safe, any risks and safety measures apply only if the battery cover is damaged and the lithium-ion cells are opened.

- Lithium-ion is harmful upon ingestion or contact with skin.
- Lithium-ion can cause a serious eye injury.
- Lithium-ion can cause an allergic skin reaction.
- Lithium-ion can cause damage of organs upon prolonged or repeated exposure.
- Avoid breathing lithium-ion dust or vapours.
- Use personal protective equipment while handling a damaged lithium-ion battery.

3 *Fill in the dealer's address in the table in the heading of this manual (unless already filled in by the dealer).*

- Wash your hands thoroughly after handling damaged product with lithium-ion components.
- Do not eat, drink and smoke while handling lithium-ion products.
- Clothing contaminated with lithium-ion must be disposed of immediately.

1.2.3 First aid

Each battery cell contains chemical materials enclosed in hermetically sealed casing, designed to resist temperatures and pressure present during normal use. During normal use there is no physical danger of ignition or explosion and chemical danger of leakage of dangerous materials.

If the battery casing is exposed to fire, hard mechanical impacts, if it is cracked or exposed to external electrical voltage during incorrect use, harmful substances may be released. In such case, do not touch the leaked substances.

The following first aid information is relevant only if the battery is damaged and a person came in direct contact with the battery components.

- **Inhalation:** Upon inhalation, take the affected person to fresh air. If the affected person doesn't breath, perform CPR: If breathing is laboured, provide oxygen and seek medical assistance.
- **Contact with skin:** In case of contact with skin remove the contaminated clothing immediately and wash the affected are with water. Seek medical assistance.
- **Contact with eyes:** Do not rub your eyes after contact with eyes! Flush carefully with water for several minutes. Remove contact lenses, if worn and can be easily removed. Continue flushing. Seek medical assistance.
- **Ingestion:** Do not swallow. Do not provide mouth-to-mouth resuscitation to an unconscious person. Seek medical assistance immediately.

1.2.4 Lithium-ion batteries: General safety

Read the instructions below thoroughly and understand them: this is a prerequisite for a correct use, maintenance and storage of the batteries and the charger.

In order to prevent a serious injury, risk of fire, explosion and the electric shock hazard:

- Do not allow children or handicapped persons to play with the battery or the charger.
- Under no circumstances open the battery or charger, only an adequately qualified person is authorized to do so.
- Do not squeeze the battery, prevent pressure and impacts on it, do not step on it.
- Do not solder directly on the battery, do not pierce it with nails or any other sharp objects.
- Do not expose the battery to water or other liquids.
- Do not store the battery in hot places, such as near fire, heaters, etc.
- Store batteries in a cold, dry and dark place at 10°C to 35°C.
- If the cover is damaged, do not use the battery or charger. Replace it.
- The charger is not designed for use by persons with reduced physical or mental capacity or lack of experience and knowledge.
- If the power-supply cable is damaged, it has to be replaced by the manufacturer or its service engineer to prevent risk.
- We recommend the charger to be connected to power grid with a circuit breaker with breaking current not exceeding 30mA.
- Use the charger only indoors. Do not charge the battery outdoors or in direct sunlight.
- Remove the battery from the product or charger before cleaning or storage.
- Do not test conductive materials using the charger.
- Never connect two chargers together.
- If any part of the charger is broken or damaged, do not replace it. Only trained professional in manufacturer's authorized service may perform repairs.

- Do not charge the battery from any other charger type.
- Do not charge alkaline batteries in the charger.
- Prevent penetration of liquids and other debris into the battery or charger.
- Do not try to use the charger for other products.
- Do not short the battery terminals.
- Do not modify the battery or charger in any way.
- Do not charge the battery in rain or in wet conditions.
- If you can feel any unusual odour or smoke, or if the battery is hot, changes its colour or shape or is changing in any way, remove the battery from the product immediately.
- Do not submerge the battery or charger into water or other liquids.
- Prevent the battery or charger from heating. If the battery or charger is hot, let it cool down for 1 hour as a minimum before attempting to charge the battery. Charge only at room temperature, i.e. between 10°C and 35°C.
- Do not cover the ventilation holes in the top of the charger or on the sides of the battery.
- Do not place the charger on soft surface, i.e. a blanket, pillow etc., because the ventilation slit might be blocked. Keep the ventilation holes for the battery/charger clean at all times.
- When not in use, keep the battery or charger away from metallic objects, such as paper clips, coins, keys, nails, bolts or other small metallic objects, which might create a contact between the terminals. Shorting of leads may cause fire or burns.
- Prior to cleaning and storage, disconnect the charger from power.

1.2.5 Inspection of the device before use

Prior to each machine use make sure that the screws fastening the brush to the carrier are adequately tight. This also applies to all screwed connections of the protective elements, guards, covers and the motor. If you find any deficiency, remove it immediately.

- It is forbidden to operate the device without the protective guard and the bottom polyurethane flap!
- Do not remove, change or override any safety devices or control elements.
- Observe the maintenance instructions and replace damaged or worn parts immediately.

1.2.6 Proceed with caution during operation

Always switch off the motor and wait until the brush comes to a standstill:

- before you start any activity near the device
- prior to device's start-up
- before driving to a different location
- before transporting the device

Always switch the motor off, wait for the brush to stop and remove all batteries before starting inspecting, cleaning or doing any work on the machine or in its vicinity.

1.2.7 Prior to brushing

Personal protective measures

Protect your hearing using suitable protection aids according to **EN 352-1:2002** (earmuffs) or **EN 352-2:2002** (earplugs). Request these aids from you distributor.

During work use work aids approved according to **EN 166:2001** or **EN 1731:2006** - close-fitting clothes with long trouser-legs, firm skid resistant shoes, work gloves and safety glasses. Do not use open sandals; do not work barefoot.

Due to the possibility of increased dust development when working with the brush, use aids for respiratory protection (respirators or masks) according to **EN149:2001+A1:2009**. Request these aids from you distributor.

Preparing the work area

When checking the area to be brushed remove all large solid objects (such as stones, sticks, wires, plastic packaging and similar municipal waste) that can be propelled away from the device or damage the device.

No network cables with electric current flowing through them must remain on the surface: they might get damaged and cause electric shock or a short circuit.

1.2.8 Proceed with caution during brushing

The machine is fitted with a rotating working tool. The maximum circumferential speed is **11 m.s^{-1}**.

Make sure that other persons (particularly children and animals) are at a safe distance of at least 15 metres from the running device - possibility of thrown objects!

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

Keep a safe distance from the machine given by the handlebar.

Always hold the handlebars of the device with both hands.

The rotating brush always induces a reaction force with the tendency to steer the device to the right. The more you press on the brush, the greater is the force deviating the machine. In the case of a sudden increase of resistance against the brush (especially when hitting a curb) this force may result in sudden jumping of the handlebars to the right or backwards.

Never fix the control lever of the brush in the activated position. Loss of control over the device means a risk of injury to the operator or other persons or damage to property.

Only work during daylight or with adequate artificial lighting. Never work under adverse light condition (rain, snowfall, fog, etc.).

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

Take regular breaks to rest.

Contact an authorized service centre to check the device:

- if the brush hits into a solid object.
- if the device starts to vibrate unusually severely

Work on steep slopes

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

Only brush on steep slopes if safe operation is assured.

Never use the device on excessively steep slopes.

Sure footing is essential for your safety, always wear skid resistant safety shoes.

Be extremely careful when changing the direction.

The device may roll away when you work downhill. Place the not used device on even surfaces only, prevent inadvertent rolling.

Fire hazard

The brush produces sparks when brushing against hard materials (especially rocks or concrete) which may ignite easily flammable materials (dry grass, etc.).

Proceed with caution when working in extremely hot and dry weather conditions.

Moisten any easily flammable material before you brush over it.

Carry a sufficient amount a suitable extinguishing agent.

Check the area you just worked on also after the brushing is completed to make sure that no fire breaks out.

Never use the brush in explosive atmosphere.

1.2.9 When work is completed

After the completion of the work or prior to leaving the machine, wait for the brushes to stop. Remove all batteries.

Do not store the machine with a battery inside.

1.2.10 Proceed with caution during maintenance and repair

Do not perform any machine repair, adjustment, lubrication or cleaning unless the machine is idle and with the batteries removed from it.

Carry out only the service operations described in these operating instructions. Other repairs or adjusting is to be implemented by the manufacturer's or your dealer's authorized service centres.

When handling the steel brush, always use work gloves! The steel brush wires are sharp. Slight pieces "splinters" may also be released.

Use only original brushes and spare parts from AS-motor. Unoriginal brushes and spare parts may cause serious injuries.

We would like to emphasize expressly that according to act on product liability we may not be liable for the damage caused by our devices if:

- any worn or damaged parts are not replaced or repaired in time
- the damage has been caused by an improperly implemented repair
- if unoriginal spare parts, not approved by the manufacturer, were used for repair
- the repair has not been performed by an authorized service centre

The same applies to spare parts and accessories.

1.2.11 Noise and Vibrations Levels

Description	Value	Measurement uncertainty
Declared sound pressure level [4] A at the place of operation L_{pAd}	70 [dB]	4.2 [dB]
Declared sound power level[5] A $L_{WA,D}$	84 [dB]	3.75 [dB]
Observed summary acceleration of the vibrations[6] transferred to the operator's hand/arm a_{hv}	1.35 m/sec	-

Table 2: Noise and Vibration Levels

ⓘ The data in the ***table 2*** refer to the TURBO speed (2800 1/min)

1.2.12 Safety Pictograms

The user is obliged to keep the pictograms on the machine in a readable state and, in case of any damage, ensure their replacement.

Position:	Number:	Description:
Fig. 16 / p.28 Combined sticker, which is attached on the rear plastic front on the device frame	1	Before using the machine, read through these Operating Instructions. Always remove the batteries before any machine maintenance or long-term storage
	2	Risk of being hit by flying debris, cuttings, ejected items, etc. Other persons and animals - keep a safe distance from the machine.
	3	It is forbidden to place your hands or feet into the tool's operating area – risk of getting cut.
	4	Electric shock hazard. Remove from the surface any network cables with electric current flowing through them because they might get damaged and cause electric shock or a short circuit.
Fig. 17 / p.28 Combined sticker, which is attached on the rear plastic front on the device frame	-	Washing the machine with pressure washer is forbidden.
Fig. 15 / p.28 Sticker attached on the control lever 18 on the right handle 15 (***Fig. 1 / p.22***).	-	Starting the working tool drive: 0 = working tool not moving 1 = safety engaged 2 = working tool moving

Table 3: Safety Pictograms

1.3 Basic Information

1.3.1 Technical Data

Description	Unit	Value
Length x Width x Height – in operation[7]	mm	1572 x 630 x 1260
Length x Width x Height – in transport[8]	mm	860 x 670 x 670
Weight (batteries and brush not included)	kg	34
Maximum working width (with the segment brush)	cm	42
Safe slope operation	∠	10°
Type of working tool (standard)	–	brush
Brush speed[9]	min^{-1}	600
Tip speed at the brush end	$m.s^{-1}$	11
Operation range (temperature)[10]	°C	5° - 30°

Table 4: Technical specifications

1.3.2 Motor

ⓘ Additional motor information can be found in the multilingual manual provided.

4 *Measured according to **ČSN EN ISO 11201:April 2010***
5 *Measured according to **ČSN EN ISO 3744:2010***
6 *Measured according to **ČSN EN ISO 20643***
7 *Maximal extension of handle bar*
8 *Without the front screen, handle bars collapsed*
9 *Actual speed of unloaded brush including the loss in the belt transmission.*
10 *When the temperatures drop below 10 ° observe the information of the motor and battery manufacturer' regarding the battery operation.*

Description		Unit	Value	
Motor		-	EGO PU2700S	
Maximum power		kW	3,47	
Motor speed	ECO	min^{-1}	2400	
	TURBO		2800	
Weight (batteries not included)		kg	11,8	
Battery (not included among machine parts)		Lithium-ion	BA5600T	BA6720T
Voltage/Capacity		V/Ah	56/10	56/12
Charging time		min	~70	~90
Charger (not included among machine parts)		Lithium-ion charger	CH5500E	
Input voltage/frequency/ input power		V/Hz /W	220-240 AC / 50 / 550	
Output voltage/current		V/A	56 / 5-8	

Table 5: Motor – technical specification

1.3.3 Description of the machine and its parts

Fig. 1 / p.22 The device is built on a frame **1** welded of sheet steel. Two wheels **6** and **7** with independent height adjustment are mounted at the back. The tubular handlebars **3** are attached to a tubular holder **2** using a steel bolt **12** and a plastic wing nut **13**. The right handle **15** of the handlebars **3** holds the control lever **15** for activation of the brush drive **5**. The lever is fitted with a safety **17** to prevent inadvertent starting. The electric motor **4** drives a steel bristle brush **5** using transmissions with V-belts. The device is fitted with a height-adjustable protective guard **10** of plastic fabric and a bottom polyurethane flap **11**.

1.4 Operating Instructions

1.4.1 Machine Assembly

ⓘ **Request the machine unpacking and training from your seller as a part of his pre-sale service!**

Fig. 2 / p.23 During assembly, proceed as follows. ***We recommend that assembly be done by two persons.*** Instructions regarding right/left directions are given from the operator's view.

1. Open the box **1** and remove from it the flap **5** along with the sachet with the operating manuals.
2. Cut the vertical edges of the rear face **3** of the box and place the face on the ground.
3. Remove the plastic strap **10** fixing the handlebar handle to the handlebar holder tube.
4. Turn the handlebars **12** into standard working position and attach to the handlebar tubular holder using a bolt **15** and plastic wing nuts **16**. Use a plain washer **17** under the nut. Lubricate the bolt thread **15** with a bit of plastic lubricant for water pumps.
5. Remove the protective guard holder **9** from the cardboard insert **2**. Lift the cardboard insert. Remove the plastic fabric guard **8** from the motor.
6. Back the device out of the box and turn it by 180° so that the handlebars are directed towards the box.
7. Cut the vertical edges of the front face **4** of the box **1**; place the face and the sides on the ground.
8. Drive the device onto the dismantled box and tilt the device on its handlebars.
9. Remove two M6 **19** collar screws (spanner No.10) and mount the flap **20** in the holes in the sheet metal bottom cover **18** in the position shown in the figure. On the flap mount the letters **L** and **R** mark the sides for correct orientation of the flap on the frame.

   ⓘ **The following step is to be done by two persons.**

   ⓘ **When handling the steel brush, always use work gloves! The steel brush wires are sharp. Slight pieces "splinters" may also be released.**
10. Mount the steel brush **21** on the carrier **22** so that the projection on the carrier fits into the rectangular recess in the brush body.
11. Using three socket head screws **23** M8x30 with a safety washer **24** screw the steel brush **21** to the carrier **22**. Tighten the screws well.
12. Tilt the device back to its normal position.
13. Place the plastic fabric guard **25** on a flat surface. Slip the steel holder of the guard **26** with its sharp angle corner into the guard corner with the cross tape.
14. Stretch the guard **25** to the holder **26** as tight as possible. Fold the part of the guard with the Velcro over **27** the guard holder arm and engage the Velcro part well.
15. Slip the guard into the openings **29** in the device frame. Lubricate the M6x16 bolts with plastic head **28** with a bit of plastic lubricant for water pumps. Screw them in through the grooves in the frame into the threads of the flap holder.

1.4.2 Machine/battery transport

1.4.2.1 Machine transport

⚠ **After finishing work, push the ON/OFF button until the light goes off, in order to switch off the motor. Remove all batteries.**

It takes two persons to lift the device safely.

1. Loosen the plastic winged nut (**13** in ***Fig. 1 / p.22***) by approx. 7 revolutions, so the handlebars are loose in the holder.
2. ***Fig. 3 / p.24*** Fold the handlebar forwards over the motor. Place a suitable soft mat over the motor, e.g. an old cloth, to prevent the plastic motor cover damage
3. Three points for handling are marked on ***Fig. 3 / p.24*** with a symbol of a **hand** – on the frame front, on the handlebar holder tube in the rear.
4. When transporting by road vehicle, secure the machine against rolling, sliding or tilting using suitable slings. **In some countries unsecured machine during transport by road vehicles is subject to high fines.** Fasten the machine during transport by using the eye in the front part of the frame and the handlebar holder tube in the point of its sliding into the machine frame – see the arrows in ***Fig. 3 / on p. 24***

1.4.2.2 Battery transport

The battery is subject to legislation governing dangerous things. If the battery is transported within business activities, specific requirements must be met and all applicable local and national laws must be complied with.

- A damaged or defective battery must be stored and transported so that no persons are endangered and no property damage takes place if smoke is formed or the battery material catches fire.
- Transport the battery in an electrically non-conductive packaging/transport casing.
- Wrap the battery and fix it in the packaging/casing so it cannot move. Fix the packaging/casing so it cannot move.
- Protect the battery from direct solar radiation. Do not leave the battery in a parked vehicle.

1.4.3 Battery charging

A damaged or defective battery can produce smoke or catch fire and cause life-threatening harm or large property damage.

A damaged or defective battery must not be charged or used.

It must be disposed of in accordance with applicable local regulations.

Follow the instructions in Section 1.2.4 Lithium-ion batteries: General safety

Also read thoroughly the instructions for use of the charger/battery. This way, you will prevent their potential damage.

The battery is supplied only partially charged. Prior to the first use, it is advisable to charge it fully to ensure its maximum service life.

A lithium-ion battery has no memory effect and can be charged any time. If a battery is stored idle for a long time without charging, the charger switches to the recovery mode and it may take 20 hours for the battery to get fully charged. The battery life is thereby extended. Once the battery is fully charged, the charging will switch to standard mode.

To attain the best results, the battery should be charged at an ambient temperature between 10°C and 35°C.

1. Connect the charger to an (AC) socket.
2. Put the battery into the charger.
3. Once the battery has been fully charged, first unplug the charger and only then remove the battery from it.

1.4.4 Inserting the batteries into the motor

First, read thoroughly the instructions for use of the [11] motor, charger and battery! This way, you will prevent their potential damage.

It is advised to use 2 batteries possessing the same capacity and identically (best fully) charged.

Use batteries 7.5 Ah capacity or higher.

Only 80% of the motor power is available if a single battery or batteries less than 7.5 Ah capacity are used.

1. Open the battery compartment cover with your left hand and hold it open.
2. Insert 2 batteries **30** into the drive unit – see ***Fig. 2 / p.23 down right***. In order to connect the battery, align the battery fins with the installation grooves and push on the battery until clicking is heard.
3. Make sure the battery-releasing button clicked home and the battery is properly seated and secured in the motor.
4. Close slowly the battery compartment cover. Do not let the cover drop, the impact might damage it.

1.4.4.1 Battery charging indicator

Push the button (**1** in ***Fig. 5***). The LEDs (**2** in ***Fig. 5***) will illuminate for ~10 seconds to indicate the battery charging status.

11 *The original operating manual and its Czech translation are attached to the machine.*

LED	Battery capacity
5 LEDs illuminate green	80% - 100%
4 LEDs illuminate green	60% - 80%
3 LEDs illuminate green	40% - 60%
2 LEDs illuminate green	20% - 40%
1 LED illuminates green	10% - 20%
1 LED flashes red	Less than 10%
5 LEDs flash red	The battery is too low and must be charged.
5 LEDs illuminate red	The battery is too hot, allow it to cool down.

Table 6: Battery status

1.4.4.1.1 Automatic maintenance

If 5 LEDs alternately illuminate red for 10 seconds and are off for 10 seconds or 5 LEDs flash green every 2 seconds, the battery is in its automatic maintenance mode.

1.4.4.2 Battery/charger status

The LEDs on the charger indicate status – ***Fig. 6.***

LED 1	LED 2	LED 3	LED 4	Description
Flashes red or is off	Off	Off	Off	The battery or charger is defective
Illuminates red	Off	Off	Off	The battery is too cold or too hot
Flashes green	Off	Off	Off	The battery is charging
Flashes alternately green		Off	Off	
Flashes alternately green			Off	
Flashes alternately green				
Illuminates green				The battery is fully charged
Flashes green quickly				The battery is in the automatic maintenance mode

Table 7: Battery/charger status

If **LED 1** flashes red:

- Remove the battery from the charger and reinsert. If **LED 1** flashes red again, the battery may be defective. Remove the battery and attempt to charge another battery.
- If this other battery is normally charged, discard the defective batter (dispose of it appropriately).
- If **LED1** flashes red with the new battery inserted, unplug the charger. Wait till **LED 1** ceases to flash and goes down. Plug in the charger again. If **LED 1** continues to flash red, the charger is defective and must be replaced.
- Follow the guidelines in the instructions for use of the battery/charger/motor.

1.4.5 Starting up the motor

1.4.5.1 Switch with the motor status control

Use the switch to get the motor to the state ready for use.

1.4.5.1.1 Switching the motor to the state ready for use

Press the ON/OFF switch (***Fig. 7 / p.25***). The motor status control is on and indicates the motor status. Now the machine can be started up by pulling the bowden, i.e. by pushing the control lever, see the **1.4.6 Starting brush rotation section**.

> ⓘ **When the ON/OFF switch is on, the standby time is 120 sec. Activate the machine during that time. If you don't, the motor will automatically deactivate and you must reactivate it by pushing the electronic switch.**

1.4.5.1.2 Switching off the motor

Press and hold the switch until the motor status control goes down

1.4.5.1.3 Motor status control on the switch

The switch is combined with a motor status control. This control is lit when the motor is in the standby mode. It indicates motor status.

- It is not lit: The motor is not ready for operation.
- It is lit green: The motor is not ready for operation or rotates.
- It is lit yellow, motor is stopping: The motor is overheated. Allow the motor to cool down.
- It flashes red, motor is stopping: Batteries are low. Replace or recharge the batteries

- It flashes yellow, motor is stopping: The motor is overloaded. Reduce working load.
- It flashes alternately red and green, motor is stopping: Communication failure. Have the machine overhauled in an authorised workshop.

1.4.5.1.4 Motor speed selector

The speed selector is located under the battery cover – ***Fig. 8***. This selector can be used to set the motor speed.

- ECO: Reduced motor speed, battery remains charged-up longer.
- TURBO: High motor speed, shorter battery operating time before recharging.

1.4.5.1.5 Advice on motor speed selection

- ECO: Lower speed for a longer battery operation before recharging and lower emissions. To be used where a lower power is adequate or a longer service life of the working tool is required.
- TURBO: High speed for a high performance. To be used where a high power is required.

1.4.6 Starting brush rotation

Make sure that all persons, animals, children are at a safe distance from the machine! Otherwise, do not continue in this activity!

Prior to each use of the device, check the tightening of the bolts fastening the brush and all screwed connections of the guards, covers and the motor!

Never start the brush resting on the ground! Risk of abrupt movement of the machine to the right.

Positions of the control level see ***Fig. 4 / p.24***

1. Grasp the left-hand handle of the handlebar with your left hand (**14** in ***Fig. 1 / p.22***).
2. Lift the brush by approx. 1cm above the cleaned surface by a slight pressure on the left handle of the handlebar.
3. Use your right hand to lift the pulley control lever (**16** in ***Fig. 1) /p. 22)*** upwards (**2** in ***Fig. 4***), until it is fully inserted in the strap.
4. Using your thumb depress the button of the safety as indicated by the arrow (position **3** in ***Fig. 4***).
5. Using your right hand fluently depress the control lever towards the handle. Hold the safety button until you start moving with the strap using the lever.
6. Press the lever all the way to the handle (**4** in ***Fig. 4 / p.24***) and hold it firmly.

1.4.7 Stopping the brush

If you want to stop the brush, release the lever (**16** in ***Fig. 1 / p.22***) on the right handle. The brush will stop and the motor will turn off.

Before you start any activity in the vicinity of the device, always turn off the motor and wait until the brush stops moving! Before leaving the machine, turn off the motor by pressing and holding depressed the ON/OFF switch until the light goes off. Remove all batteries.

The electric motor has an integral brake and stops immediately, which can cause slight jerk of the machine to the right.

1.4.8 Removing the batteries from the motor

Before replacing the batteries, always turn off the motor by pressing and holding depressed the ON/OFF switch until the light goes off.

When replacing the batteries (e.g. with fully charged ones) or before long-term machine storage, remove the batteries from the motor as follows (see also ***Fig. 8 / p.25***):

1. Open the battery compartment cover with your left hand and hold it open.
2. Push the battery-releasing button – designated **1-PUSH** in the picture. The battery will pop up.
3. Slide the battery out of the bed in the motor – designated **2-REMOVE** in the picture.
4. Close slowly the battery compartment cover. Do not let the cover drop, the impact might damage it.

Always remove/replace both batteries.

5. Battery reinsertion – see the procedure in **Section 1.4.4 Inserting the batteries into the motor**.

1.4.9 Adjusting position of the wheels

Before starting any maintenance or adjustment, always turn off the motor by pressing and holding depressed the ON/OFF button until the light goes off. Remove all batteries.

Fig. 9 / p.26 The wheels have independent adjustment of height in five positions. This allows setting of the brush pressure according to the type of work you do. Wheels are also adjusted if the brush becomes substantially worn to achieve the correct position of the brush in relation to the brushed surface.

Tools: Allen key No. 6, best with extended handle or a T handle

1. Loosen and unscrew the central socket head screw of the wheel by approx. 3 turns.
2. Tilt the device slightly to the opposite wheel. It is recommended that you support the device from below against the frame using a suitable pad (brick, stone, wooden block, etc.).
3. Unscrew the central wheel fixing socket head screw and pull it slightly outside.
4. Shift the wheel over to the desired position.
5. Push the screw into the wheel pin and screw it into the thread in the frame.

You may move the wheel arm back and forth to allow easier screwing of the screw into the frame thread.

6. Tighten the bolt gently but firmly.

1.4.10 Using the machine

1.4.10.1 Mounting of the guard

It is forbidden to operate the device without the protective guard!

Fig. 2 / p.23 and ***Fig. 12 / p.27***

1. Place the ends of the guard holder in the holes in the device frame.
2. Screw the M6 screws with plastic heads through the grooves in the frame into the threads in the guard holder.
3. ***Fig. 12 / p.27*** Adjust the guard height according to the wear of the brush bristles. The guard should be approx. 5 mm above the level of the brushed surface.
4. Tighten adequately the two screws (**26** in ***Fig. 2 / p.23***). Do not overtighten.

1.4.10.2 Position of the wheels – cleaning in corners

In order to make brushing in corners (near curbs, walls, fences, etc.) - increase the pressure on the **left** side of the brush. Set the left wheel higher than the right one – illustration **A** in ***Fig. 9 / p.26*** .

	Combination of position on the left (L) + position on the right (P)		
Pressure	**New brush**	**Medium wear**	**Maximum wear**
Medium	**3L + 2R**	**4L + 3R**	**5L + 4R**
Increased	**4L + 2R**	**5L + 3R**	

Table 8: Position of the wheels when brushing in corners

1.4.10.3 Position of the wheels – cleaning in open areas

In order to achieve better cleaning efficiency when brushing in an open area - pavements, etc. - it is necessary to increase pressure on the **front** face of the brush. Set the left and right wheel to the same position – illustration **B** in ***Fig. 9/ p.26*** .

	Combination of position on the left (L) + position on the right (P)			
Pressure	**New brush**	**Slight wear**	**Medium wear**	**Maximum wear**
Medium	**2L + 2R**	**3L + 3R**	**4L + 4R**	**5L + 5R**
Increased	**1L + 1R**	**2L + 2R**	**3L + 3R**	**4L + 4R**
High		**1L + 1R**	**2L + 2R**	**3L + 3R**

Table 9: Position of wheels when working in open areas

1.4.10.4 Manner of device operation

When checking the area to be brushed remove all large solid objects (such as stones, sticks, plastic bottles and similar municipal waste) that can be propelled away from the device or damage the device.

It is forbidden to operate the device without the protective guard!

Always hold the handlebars of the device firmly. In the case of a sudden increase of resistance against the brush (especially when hitting a curb) this force may result in sudden jumping of the handlebars to the left or backwards.

Due to increased resistance at the tips of the bristles in corners at curbs and walls there may be a momentary slippage of drive belts. If this happens only for a short time or once in a long period, it is not necessary to tension the belt. The belt needs to be tensioned only if the brush stops with only a slightly increased pressure of the brush on the cleaned surface or in the corner near a curb or a wall.

1.4.10.4.1 Brushing in corners

1. Adjust the wheels according to the instructions in **chap. 1.4.10.2 Position of the wheels – cleaning in corners** and **Table 8: Position of the wheels when brushing in corners**
2. Start the brush drive according to **chap. 1.4.6 Starting brush rotation**
3. Move the device so that the left part of the brush is at the brushed area between the curb and the pavement area.
4. By pulling the handlebars upwards increase the pressure of the brush onto the brushed surface.
5. Very slowly move forward along the curb, wall, etc. Allow sufficient time for perfect removal of plants and impurities.

When brushing along curbs or walls, large amount of waste material (earth, sand, stones, etc.) is usually generated. In order to achieve perfect removal of all plants we recommend that you first remove this waste material (machine or manual sweeping) and then brush the surface clean removing all plants that still are present after first brushing.

1.4.10.4.2 Open area brushing

1. Adjust the wheels according to the instructions in **chap. 1.4.10.3 Position of the wheels – cleaning in open areas and Table 9: Position of wheels when working in open areas**
2. Start the brush drive according to **chap. 1.4.6 Starting brush rotation**
3. Move the device over to the brushed surface.
4. By pulling the handlebars upwards increase the pressure of the brush onto the brushed surface.
5. By moving the device back and forth several cm and at the same time from one side to another clean a small part of the whole brushed area. Leave the brush rotating on one small part of the brushed surface until the surface is free of all plants.
6. Slowly move forward on the brushed area. The speed of the movement depends on the resilience and abundance of plants in the given area.

In order to achieve perfect removal of all plants we recommend that you first remove the waste material generated after first brushing of the area (machine or manual sweeping) and then brush the surface clean removing all plants that still are present after first brushing.

1.5 Maintenance, Care, Storage

To secure a long-term satisfaction with our product, it is necessary to provide it with due care and maintenance. By providing regular maintenance you will prevent its rapid wear and you will secure correct operation of all its parts.

Follow all instructions concerning maintenance and adjusting intervals. We recommend that you keep records of operating hours and the conditions under which the machine is used (these may be useful for servicing centres). We recommend that you have the post-season maintenance implemented by one of our authorized service centres; the same applies to standard maintenance if you are not certain of your technical capabilities.

Prior to each use of the device, check the tightening of bolts fastening the brush to the carrier.

Electric shock hazard from the live parts. Carry out only those service operations that are described in these operating instructions. Follow the instructions in the Safety Regulations section. People with pacemakers must not touch any live parts.

Before any maintenance/cleaning with the motor idle, remove all batteries and allow the machine cool down for 20 minutes as a minimum.

1.5.1 Machine Lubrication

When working with lubricants, follow the basic hygiene regulations and observe the environmental protection regulations and laws.

If you are not sufficiently manually skilled, have the operations done by an authorized service centre.

In order to secure trouble-free and easy movement of all mechanical parts, it is necessary to pay adequate attention to lubrication. A few drops of oil are usually enough (e.g. oil for bicycles).

1.5.1.1 Lubrication Points

When selecting from a wide range of oils it is sufficient to select any spray oil. When selecting plastic lubricants (grease) any lubricant intended for water pump lubrication is sufficient. However, its application usually requires the dismantling of the corresponding slide assembly.

Note: If you use plastic lubricant resistant to water, the lubrication intervals may be extended.

Lubrication point - description	Interval within season	After season	Lubricant	Figure	Note
Wheel bearings	Every 10 hours	Yes	spray grease	***Fig. 14 / p.28***	After each washing of the machine
Wheel arm screw	-	Yes	copper paste or spray	***Fig. 14 / p.28***	
Screwed connections	-	Yes	Grease	***Fig. 14 / p.28***	Handlebars and protective guard fixing threads.

Table 10: Lubrication intervals

1.5.2 Brush replacement

If you are not sufficiently manually skilled, have the operations done by an authorized service centre.

The brush needs to be replaced if the bristle ends are worn to approx. 15mm from the bristle clips – see ***Fig. 12 / p.27***.

When replacing the brush, use only new brushes - never any used ones.

Use only the original brushes from AS-motor spare part No. G07323029.

The device must be placed on a hard horizontal surface and must be secured so that there is good access from below to the brush and no inadvertent device movement occurs.

When handling the steel brush, always use work gloves! The steel brush wires are sharp. Slight pieces "splinters" may also be released.

Turn the motor off by pressing and holding depressed the ON/OFF switch until the light goes off, and remove all batteries from the motor.

Fig. 2 / p.23 and ***Fig. 13 / p.27***

1. Loosen the handlebar bolt **15**, unscrew the plastic wing nut **16** only partially so that the handlebars **12** ma be tilted forwards by approx. 30°. Tighten the plastic wing nut lightly.
2. By pulling upwards on the protective guard holder **26** tilt the device backwards to lean on the handlebars (top left illustration in ***Fig. 13 / p.27***). Support the end of wheel arms with scrapers, the handlebar holder tube and the handlebars using a suitable soft pad – e.g. a piece of cardboard or old cloth.
3. Hold the brush to prevent it from spinning and using Allen key No.8 loosen and unscrew three M8x30 screws **23** with safety washers **24**.
4. Remove the brush from the carrier **22**.
5. Mount the new brush on the carrier. The rectangular recess in the brush must be against the protrusion on the carrier.
6. Screw the three M8x30 screws **23** with safety washers back again **24** and tighten them well.
7. Tilt the device back again. Set the handlebars back to the standard working position.

1.5.3 Adjusting dirt scrapers

Fig. 10 / p.27 Dirt scrapers are used for removing of earth or plant residues from the wheel wall. The recommended clearance between the wheel wall and the scraper edge is 1mm. To adjust the clearance use a suitable gauge, e.g. and old credit card. Tighten the M6 collar nuts fast.

1.5.4 Belt gears

The machine is equipped with its modern design belts that do not require any special care. It is only necessary to check them regularly, and when there are cracks or tears on the belt surface, replace them. Adjusting of tension pulleys must be checked after approx. 5 hours of operation when the belt has been run in (it applies to belts in a new machine and to new changed belts), to prevent belt damage due to its elongation and insufficient tension.

1.5.4.1 Adjusting of tension pulleys

Turn the motor off by pressing and holding depressed the ON/OFF switch until the light goes off, and remove all batteries from the motor.

If you are not sufficiently manually skilled, have the operations done by an authorized service centre.

1. Remove the brush per items 1 to 4 per **Chap.1.5.2 Brush replacement**, ***Fig. 2 / p.23*** and ***Fig. 13 / p.27***
2. In order to see both belts according to ***Fig. 13 / p.27*** disassemble according to ***Fig. 2 / p.23*** two M6x16 bolts with collar **19** for attachment of the polyurethane flap **20** and eight M6x16 bolts with collar for attachment of the lower cover plate **18**.

1.5.4.1.1 Primary belt tensioning pulley

Primary belt cannot be adjusted. If it slips, it must be replaced.

1.5.4.1.2 Secondary belt tensioning pulley

The belt needs tensioning only if the brush stops with only a slightly increased pressure of the brush on the cleaned surface. If the brush is pressed to a curb or wall corner, where increased resistance on bristle tips is developed, short-term drive belt slippage may occur. If this happens only for a short time or once in a long period, it is not necessary to tension the belt.

If you are not sufficiently manually skilled, have the operation performed by an authorized service centre equipped with professional fixtures and belt tensioning gauges.

When adjusting belt tensioning it is necessary to ask another person for assistance.

Fig. 13 / p.27

1. Using spanner No. 13 loosen slightly (approx. 1/2 turn) the M8 nut of the self-tensioning pulley.
2. Insert No. 13 socket wrench (min 100mm long) into the hole in the left side of the machine and onto the tensioner nut.
3. Tension the belt by turning clockwise. Correct tensioning of a belt usually requires to turn the nut by 2 turns.
4. Firmly tighten the M8 self-locking nut of the tensioning pulley.
5. Turn the carrier several times and then check the belt tension – there must be only minimal deflection on the belt.

To check correct belt tension we recommend that you use OPTIKRIK II mechanical gauge by OPTIBELT. The belt tension force in the traction part is 350- 400N.

1.5.4.2 V-belt change

Replace the V-belt with a new one every time cracks or cracks appear on the surface of the belt and also when the belt is worn sufficiently by the operation that it can no longer be tensioned with its tensioning pulleys.

Have the operation always performed by an authorized service centre equipped with professional fixtures and belt tensioning gauges.

Use exclusively the V-belts recommended by the manufacturer. Proper operation of the drive cannot be guaranteed if belts from other manufacturers are used.

1.5.5 Motor maintenance

The instructions for use of the motor have been developed by the motor manufacturer. All the mandatory regulations and maintenance guidelines are listed and explained in the instructions, as are the warranty conditions. If any operations falling in the warranty have to be performed on the motor, please contact the authorised service organisation.

Adequate motor cooling is vital for maintaining a long service life. Take steps to maintain the air filter constantly clean.

1.5.5.1 Air Filter Maintenance

The use of flammable cleaners is associated with the fire or explosion hazard. Never use flammable solvents to clean the air filter.

Fig. 11 / p.27

1. Turn the arresting pin **1** counter-clockwise and remove the air filter casing **2**.
2. Cautiously remove the air filter from the air filter casing **2**.
3. Clean the air filter (e.g., with compressed air) or replace it.
4. Reinsert the air filter into the air filter casing **2**. Make sure the air filter is uniformly seated and is not corrugated.
5. Reinsert the air filter casing **2** into the motor cover.
6. Push the air filter casing **2** and turn the arresting button **1** clockwise.

Follow the guidelines in the instructions for use of the motor.

1.5.5.2 Battery/charger inspection

A damaged or defective battery can produce smoke or catch fire and cause life-threatening harm or large property damage.

A damaged or defective battery must not be charged or used.

It must be disposed of in accordance with applicable local regulations.

Follow the instructions in Section 1.2.4 Lithium-ion batteries: General safety

A plugged-in charger poses the electric shock hazard. Unplug the charger before cleaning or inspecting it.

Inspect the battery and charger for any visible damage. If the battery or charger is damaged, replace it immediately.

Check the battery/charger status – see Section 1.4.3 Battery charging

Follow the instructions for use of all the batteries and chargers as well as the instructions developed by the motor manufacturer.

1.5.5.2.1 Inspection of the battery compartment

Make sure the battery has correctly snapped into place in the battery compartment. Make sure that the disengaging button in the battery compartment releases the battery properly. If it does not, contact the authorised service organisation.

1.5.6 Servicing intervals

Operation	Prior to each use	Prior to long-term storing
Battery charging indicator	Yes	yes, charge to 30% - 50% of the capacity
Check for battery casing integrity	yes, do not use the damaged battery any longer!	yes, do not use the damaged battery any longer!
Washing	as necessary, preferably when work is finished	Yes
Removal of dirt	Yes	Yes
Checking tightening of the brush and screwed connections	Yes	Yes
Lubrication	Check of the condition	***Table 10***
V-belts check	after every 20 hours	Yes

Table 11: Servicing intervals

1.5.7 Troubleshooting

Problem	Cause	Remedy
The motor does not work	The battery is not correctly seated.	Remove the battery and seat it correctly
	The motor is not ready for operation	Switching the motor to the state ready for use
	Automatic switching-off	Switch the motor to the state ready for use
	The motor bowden is not set correctly	Visit an authorized service centre.
	Battery not charged.	Charge the battery.
	The battery arresting button is damaged.	Replace the battery or visit an authorized service centre.
	The battery probably requires service or replacement.	Replace the battery or visit an authorized service centre.
	Another defect.	Visit an authorized service centre.
The motor does not work or stops, the switch lights yellow.	The motor is overheated.	Allow the machine to cool down.
	The air filter is clogged.	Perform air filter maintenance.
The motor does not work or stops, the switch flashes red	The battery is low or defective	See the Battery recharging section
The motor does not work or stops, the switch flashes yellow	The motor is overloaded	Reduce working load
The motor does not work or stops, the switch flashes alternately red and green	Motor fault	Visit an authorized centre.
The brush is not turning.	Insufficient belt tension.	Adjust the tension pulley.
	Torn belt.	Visit an authorized centre.
	The belt has come off.	Mount the belt back.
	Other defects.	Visit an authorized centre.
Strong vibrations during operation.	Unbalanced brush due to uneven wear.	Change the brush immediately.
	Bent drive shaft of the brush due to a collision with a fixed object.	Visit an authorized centre.
	Motor mounting is loose.	Visit an authorized centre.
The control lever does not return back	Broken return spring.	Replace it by a new one.
	Other defects.	Visit an authorized centre.
Another defect		Visit an authorized centre.

Table 12: Troubleshooting

1.5.8 Storage

Always eliminate all problems of the device before you store it so that the device is always in a safe-to-operate state.

Prior to any long-term storage (e.g. at the season end) remove all the dirt and plant residues from the machine. Prevent unauthorized persons (particularly children) from access to the device. Protect the machine against climatic conditions but do not use impermeable protection to prevent excessive corrosion it may cause.

We strongly recommend the following:

- Remove all the dirt and plant residues from the machine.
- Repair any paint damage.
- Remove all batteries from the motor
- Store the machine in a closed, dry and well-ventilated area inaccessible to children. Eliminate any machine faults before putting it to storage: the machine should be constantly operable and safe. Allow the motor to cool down before putting the machine for storage to a closed room.
- Implement post-season device lubrication ***Table 10***.

1.5.8.1 Battery storage

A damaged or defective battery can produce smoke or catch fire and cause life-threatening harm or large property damage.

A damaged or defective battery must be stored and transported so that no persons are endangered and no property damage takes place if smoke is formed or the battery material catches fire.

It must be disposed of in accordance with applicable local regulations.

Follow the instructions in Section 1.2.4 Lithium-ion batteries: General safety

Also read thoroughly the instructions for use of the charger/battery. This way, you will prevent their potential damage.

- Remove all batteries.
- Store the batteries separately from the machine to prevent any unauthorised use.

1.5.8.1.1 Automatic battery maintenance

The battery is equipped with the automatic maintenance functionality to extend the product service life.

If 5 LEDs alternately illuminate red for 10 seconds and are off for 10 seconds or 5 LEDs flash green every 2 seconds, the battery is in its automatic maintenance mode.

The batteries can get hot during automatic maintenance. Ensure adequate ventilation.

1.5.8.1.2 Long-term storage

The battery should not be stored folly charge or fully discharged.

- Instead, the battery should be stored charged to 30% – 50%.
- Batteries in long-term storage should be recharged every 6 months.

1.5.9 Spare parts

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

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

1.5.10 Wear parts

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

brush, bearings, V-belts, protective screen, rubber flap, wheels, battery.

1.5.11 Machine washing and cleaning

When washing and cleaning the machine, proceed so as to observe valid provisions and laws regarding protection of water courses and other water resources against pollution or contamination by chemical agents.

To minimize the risk of fire, electric shock or death, do not use wet rags, cleaning agents or solvents on the battery of the charger.

Prior to maintenance, cleaning, washing or inspection of the machine, always remove the battery from the motor.

Never wash the machine using pressure washer or jet of water.

1.5.12 Disposal of Packaging and the Machine at the End of its Service Life

When you unpack the machine you are bound to dispose of the packaging material according to national laws and decrees concerning waste disposal. When disposing of the machine at the end of its service life, we recommend proceeding as follows:

- Demount from your machine all the parts that may still be used.
- Remove any plastic and non-ferrous metal parts.
- The remaining machine and its removed demounted parts are to be disposed of according to national laws and decrees concerning waste disposal.

1.5.13 Safe used battery storage and recycling

Used batteries are potentially dangerous and must be stored and handled with care. **Used batteries must be stored out of the reach of children.** Some materials inside the batteries are toxic, inspect the batteries frequently for any damage or leakage. The batteries must be protected from direct sunrays and heat. Store the batteries at 10°C to 26°C and 40% to 85% relative humidity.

More information can be found in the instructions for use of the charger and battery.

1.5.14 Battery/charger disposal

All toxic materials must be disposed of by a method preventing any environmental contamination.

Do not use or charge a battery with cracks (leaking or not leaking).

Such a battery must be disposed of and replaced with a new battery. DO NOT ATTEMPT TO REPAIR IT!

To prevent injury and risk of fire, explosion or electric shock, and to prevent any damage of equipment or the environment:

- Cover the battery contacts with a strong adhesive tape.
- Do not attempt to remove and/or destroy any battery parts.
- Do not attempt to open the battery or charger.
- In case of leakage, the released electrolytes and aggressive and toxic. Prevent contact with eyes or skin, do not eat.

Electric products may not be disposed of in communal waste. To return all used equipment, please use the return and collection systems or contact the dealer who sold the product. Dealers can accept the product for recycling, which is environment friendly.

Prior to disposing of damaged or used batteries, contact the local collection yard or environmental protection agency for information and instruction for a correct disposal, or contact the dealer, who sold the product.

- Do not throw the batteries into household waste.
- Do not flush.
- Do not place it, where it could become part of the land fill or communal waste.
- Hand it over to a certified centre for lithium recycling or disposal.

More information can be found in instructions for use of the charger and battery.

1.5.15 Warranty

The conditions of the warranty can be found on the reverse side of your warranty card. Send the filled-out warranty card immediately to ”S-Motor GmbH” or the supplier immediately after purchasing the product.. A product for which no card has been submitted will not be covered by the warranty. Preserve the proof of purchase or the warranty card that was filled out by the vendor.

1.6 Accessories

The recommended accessories **are not** included with this device. You may purchase the accessories from your dealer.

G07323029	Steel plate brush AS 30
G07381001	Brush holder 42 cm AS 30 (without brushes)
G07380012	Knotted steel brush 10 pc set (for brush holder)
G07380013	Knotted steel brush 50 pc set (for brush holder)
G07380014	Knotted steel brush 100 pc set (for brush holder)
G07323029	Nylon plate brush AS 30 (for sensitive surfaces)
G00011050	Corrective paint, spray, 400 ml, orange
G01299001	Battery BA5600T, 56 V, 10 Ah
G01299006	Battery BA6720T, 56 V, 12 Ah
G01299002	Charger CH5500E for batteries BA5600T, BA6720T
G07399001	Supporting wheel AS 30

2 EC Declaration of Conformity

AS-Motor GmbH
Ellwanger Straße 15
D-74424 Bühlertann
www.as-motor.com

EC Declaration of Conformity

Manufacturer:[12] AS-Motor GmbH

Address: Ellwanger Straße 15; D-74424 Bühlertann

Product (machine) – type: AS 30 E-WeedHex

Serial No.: starting from 0384220200001

Description:

Machine type	Motor	Max. operation width (with a segmented brush)
Weed remover	EGO PU2700S	42 cm
The weed remover is intended exclusively for effective removal of weed, moss or other impurities from paved areas especially in tight spots at walls or curbs.		

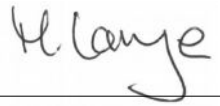
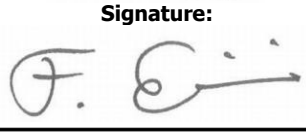
All the respective provisions met by the product: Government Decree No. 176/2008 Coll. (Machinery Directive 2006/42/EC)
Government Decree No. 117/2016 Coll. (Electromagnetic Compatibility Directive 2014/30/EU)

Harmonized technical standards used for conformity assessment: EN ISO 12100:2010
ČSN EN 55014-1 ed.3,+/A1,+/A2,+/Z1

Other technical standards and specifications used for conformity assessment: -

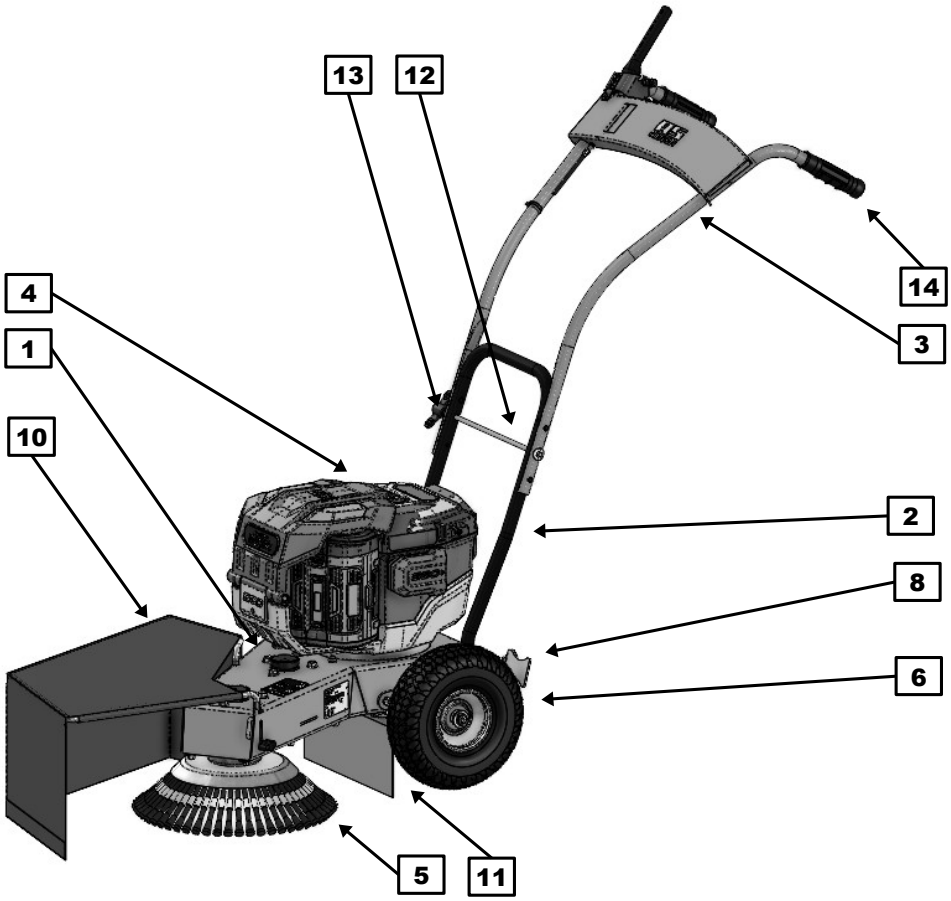
We declare that the equipment specified above is in conformity with the requirements of the above-mentioned directives.

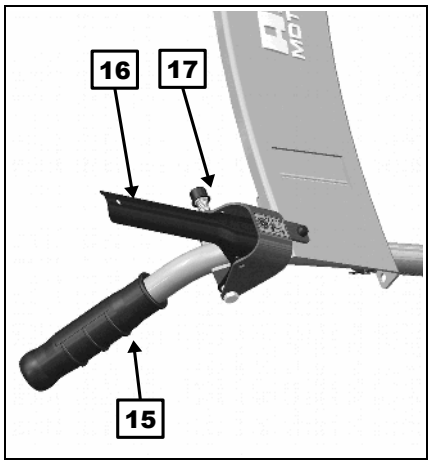
Note: All regulations have been used as amended at the moment of issuing of this declaration without expressly specifying the amendments.

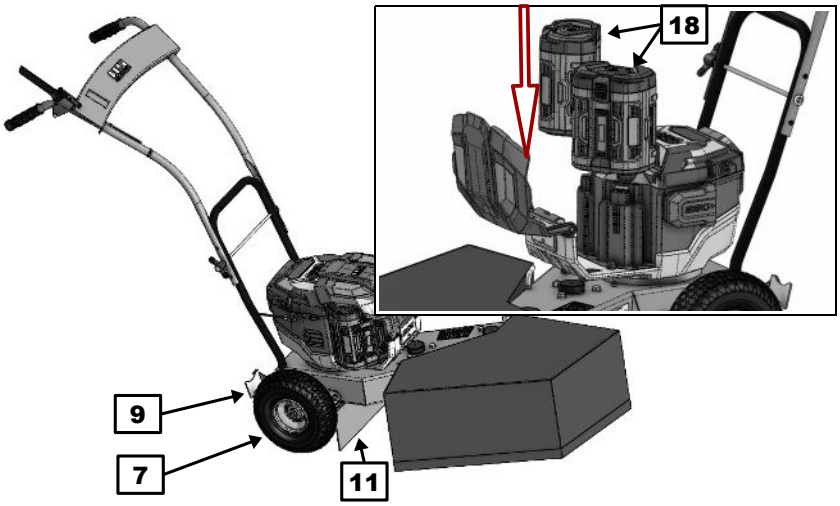
Place of issue:	Bühlertann	
Date of issue:	1. 3. 2022	
Person authorized to sign on behalf of the manufacturer:		
Name: Maria Lange	**Position:** Company Director	**Signature:** 
Name: Frank Einsiedler	**Position:** Development Manager	**Signature:** 

12 *The manufacturer also prepares and archives all technical documents regarding all directives relevant to the present EC declaration of conformity*

3 EN Attached illustrations

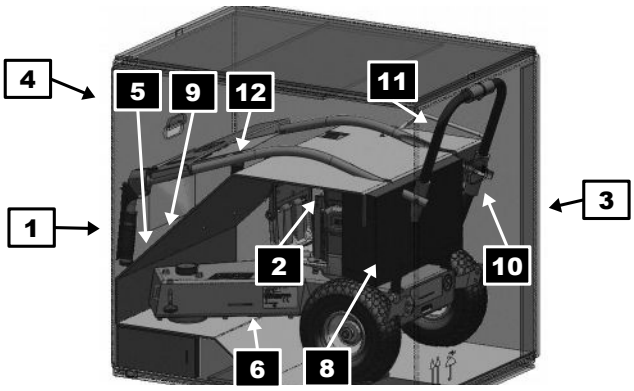




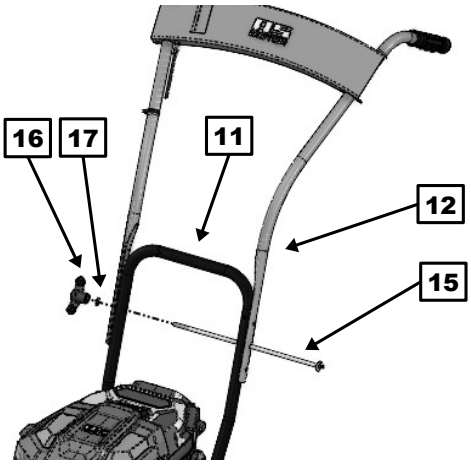


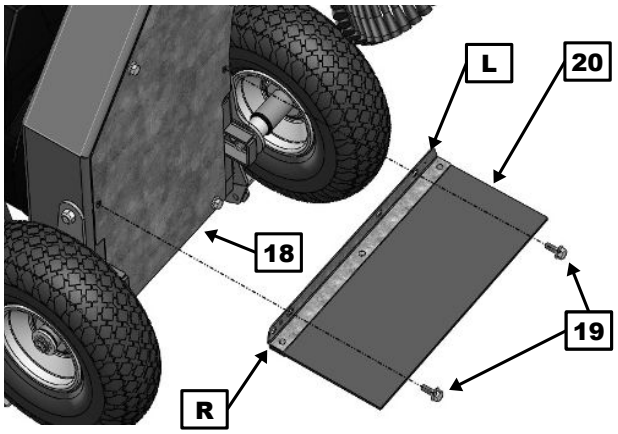
1 Device frame	**9** Right wheel scraper	**17** Strap with a safety
2 Handlebar holder tube	**10** Protective guard	**18** Battery
3 Handlebars	**11** Polyurethane flap	
4 Motor	**12** Bolt	
5 Brush	**13** Plastic wing nut	
6 Left wheel	**14** Left handle	
7 Right wheel	**15** Right handle	
8 Left wheel scraper	**16** Motor starting lever	

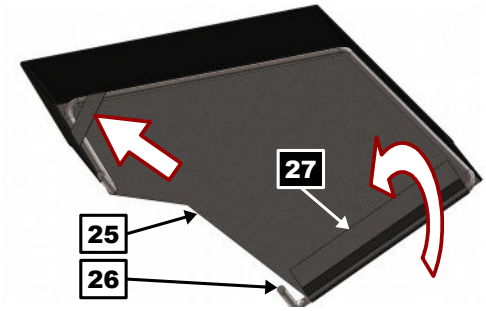
Fig. 1: Basic components of the device

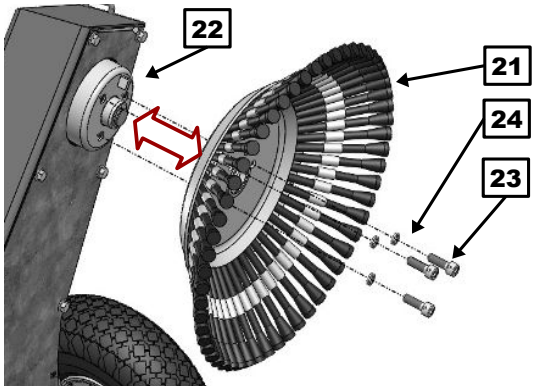


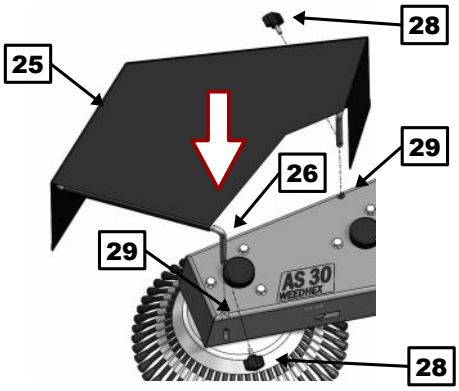
1 Cardboard box
2 Cardboard insert
3 Rear face of the box
4 Front face of the box
5 Polyurethane flap and bag with manuals
6 Device
8 Protective guard
9 Protective guard holder
10 Plastic binding tape fixing the handlebar handle to the handlebar holder
11 Handlebar holder tube
12 Handlebars

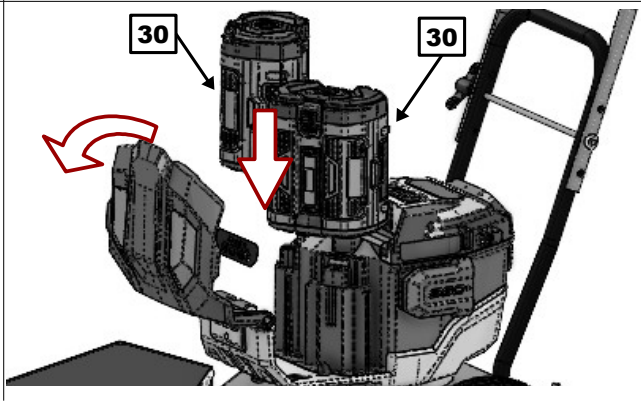












15 Bolt
16 Plastic wing nut
17 Flat washer 10.5mm
18 Bottom sheet metal cover
19 M6x16 collar screw (2x)
20 Polyurethane flap
21 Brush
22 Brush carrier
23 M8x30 socket screw (3x)
24 Safety washer 10 (3x)
25 Protective guard
26 Protective guard holder
27 Protective guard hem with Velcro
28 M6x16 plastic head screw (2x)
29 Holes for protective guard holder
30 Battery

Fig. 2: Machine Assembly

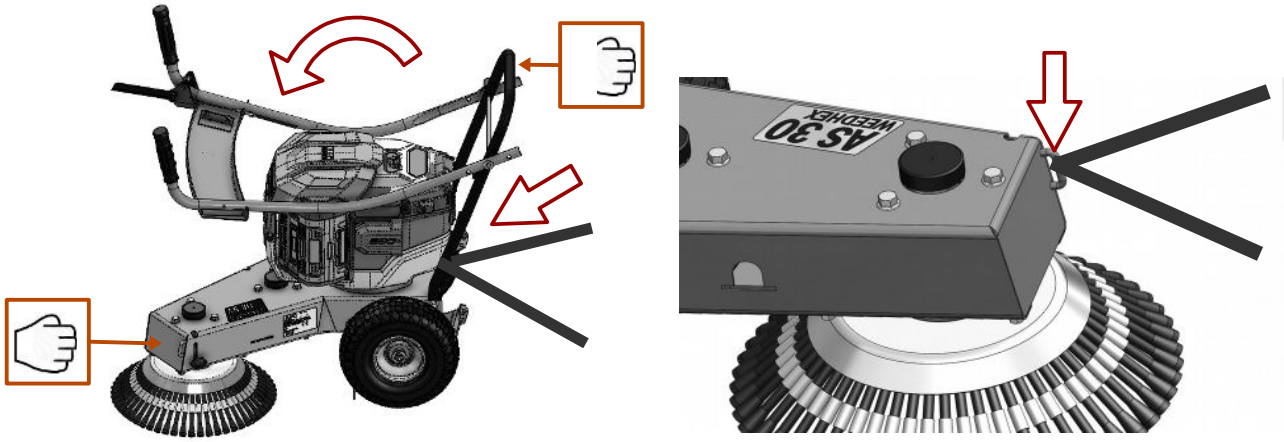


Fig. 3: Machine transport and slinging points

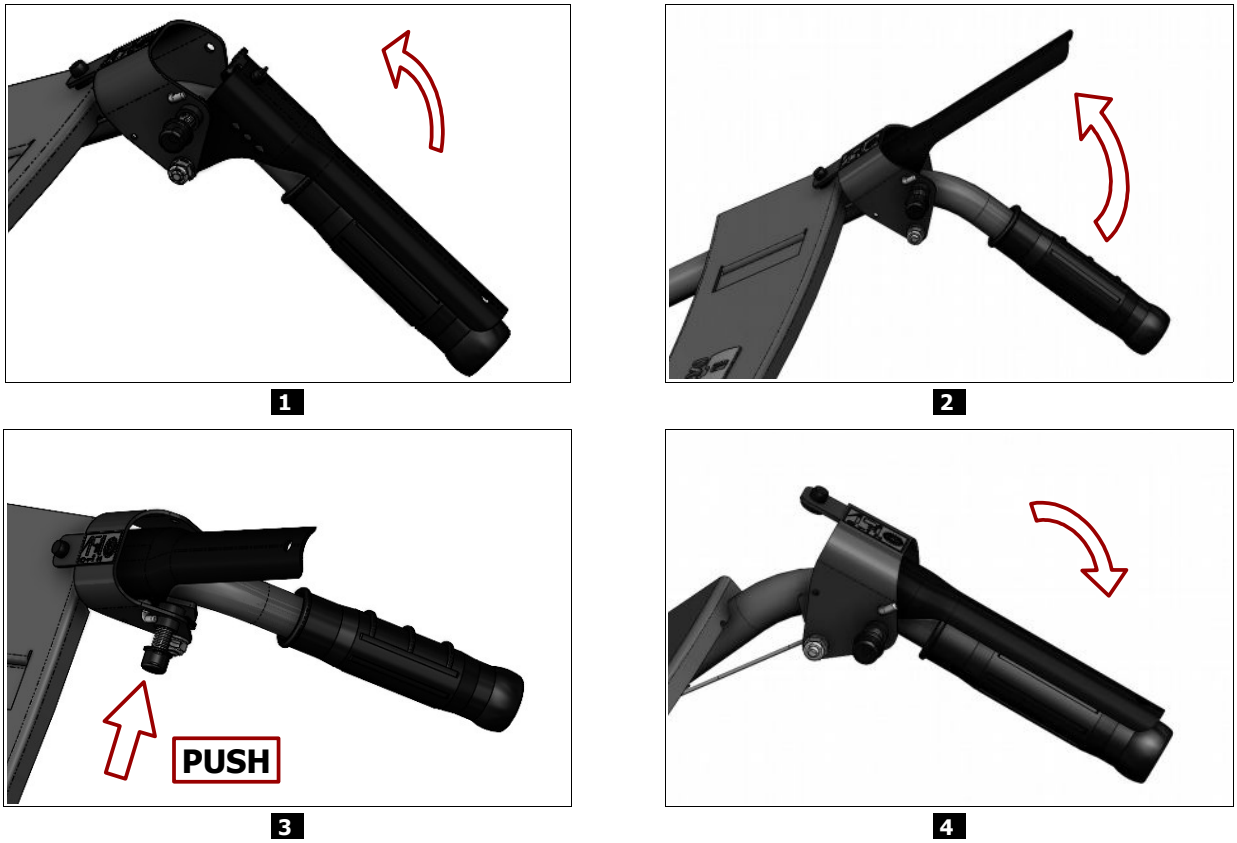


Fig. 4: Pulley control lever positions

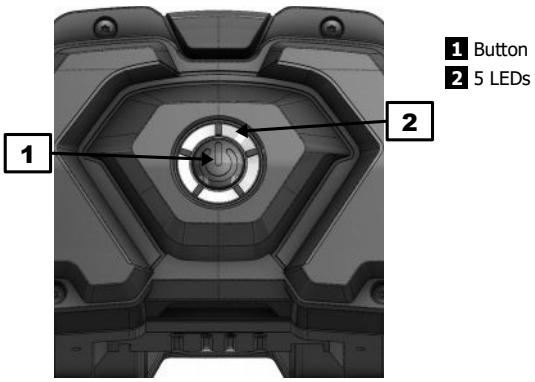


Fig. 5: Battery charging indicator

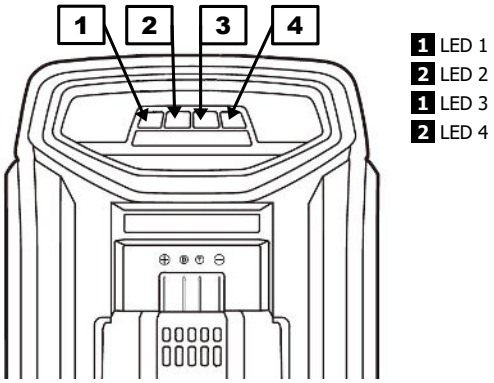


Fig. 6: Battery/charger status

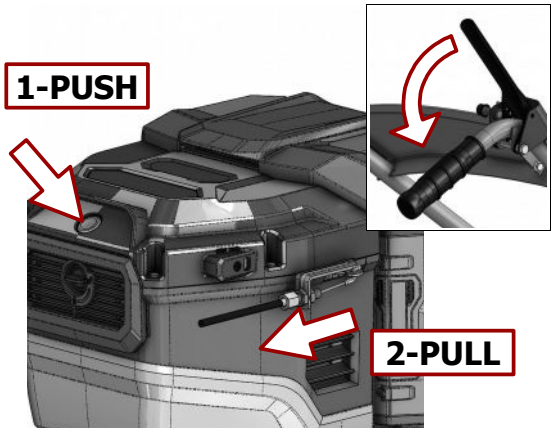


Fig. 7: Motor start-up

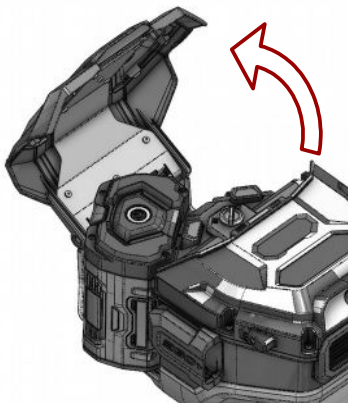
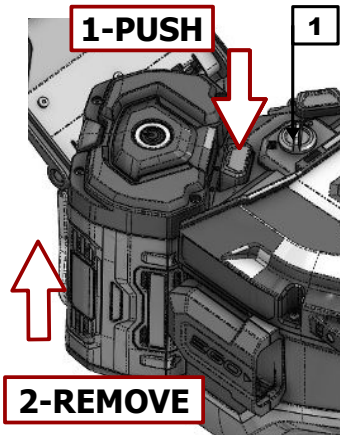
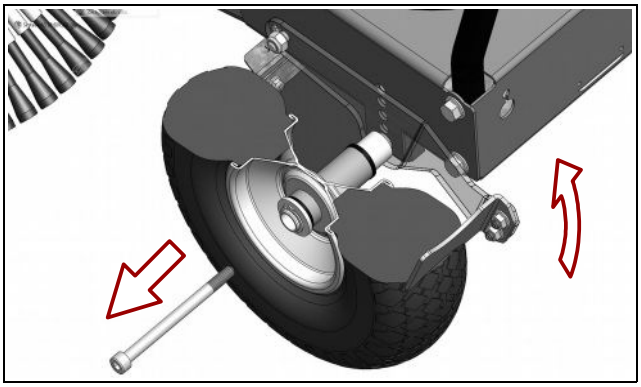
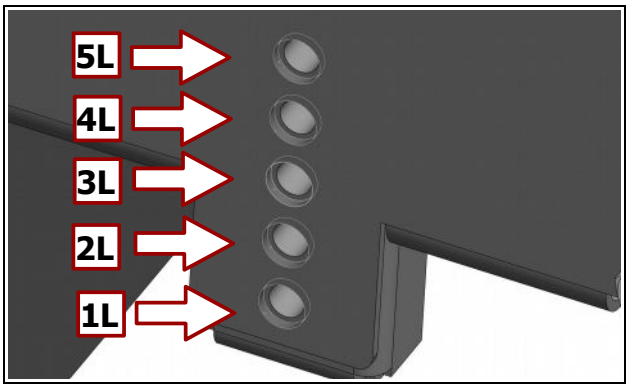


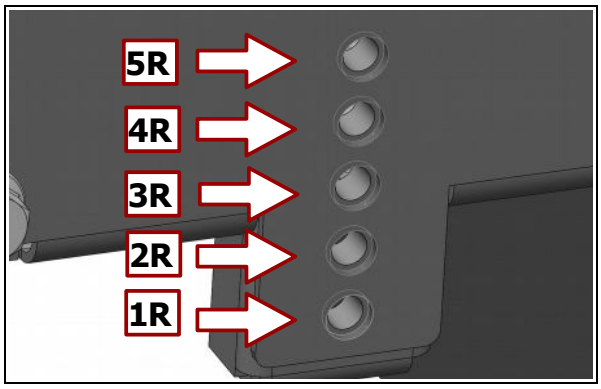
Fig. 8: Removing battery from the motor

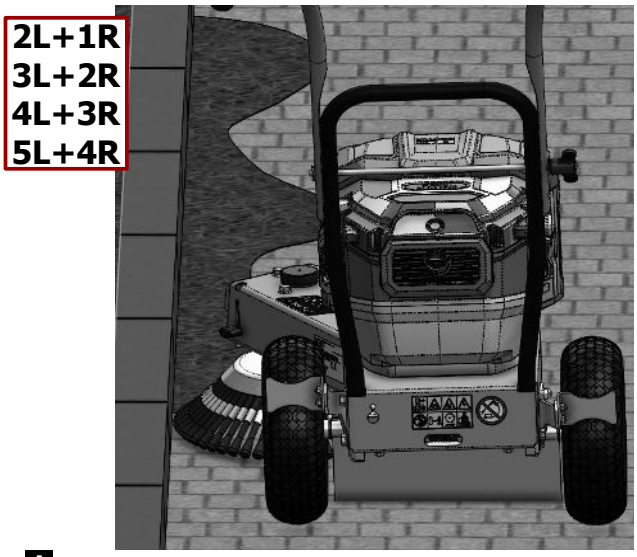


1 Motor speed selector









A

B

Fig. 9: Adjusting position of the wheels

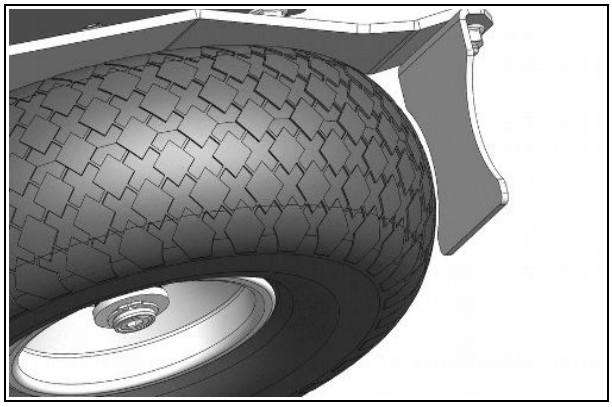


Fig. 10: Dirt scraper - adjusting the clearance

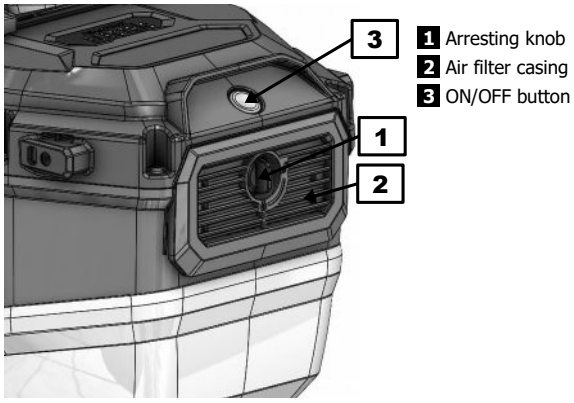


Fig. 11: Air filter maintenance

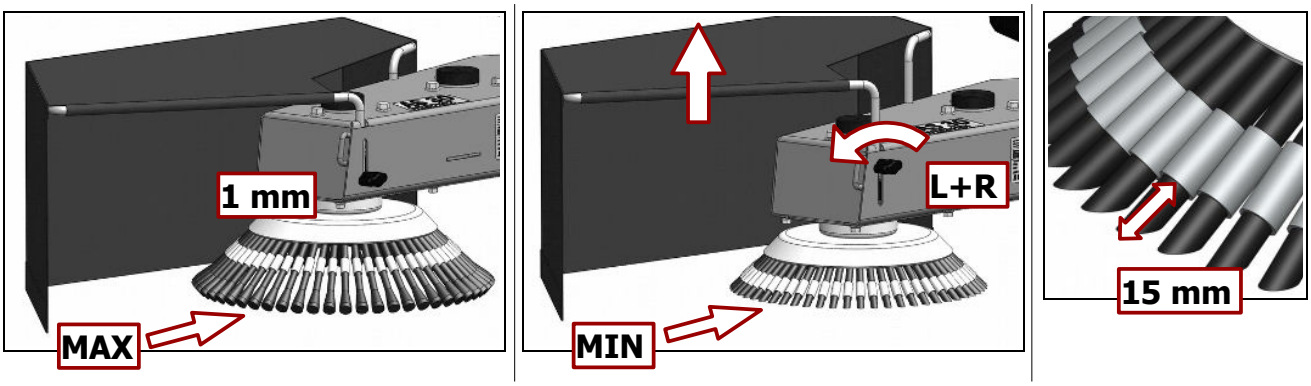
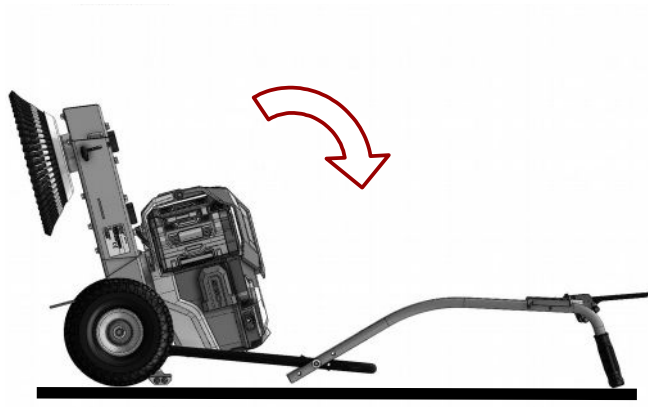
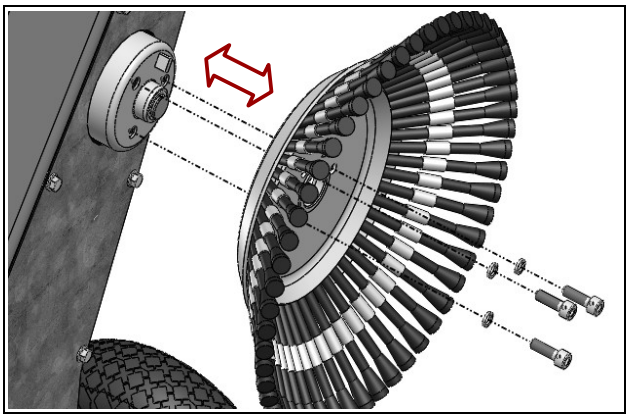


Fig. 12: Brush wear and setting of the protective guard





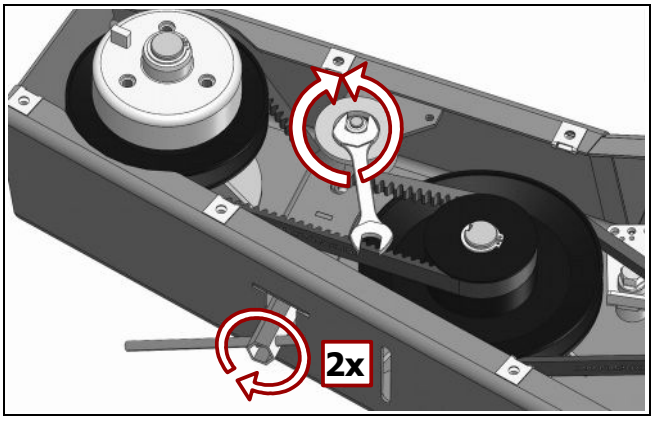
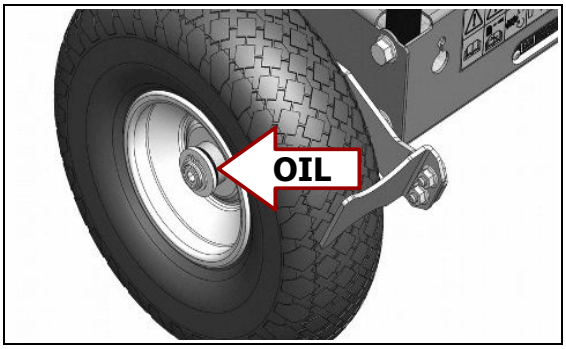
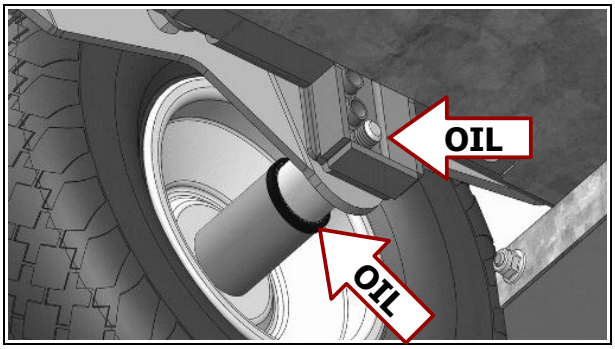
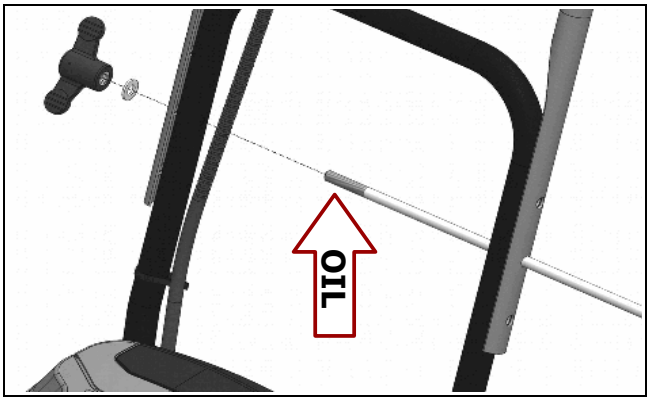


Fig. 13: Tensioning belt pulleys







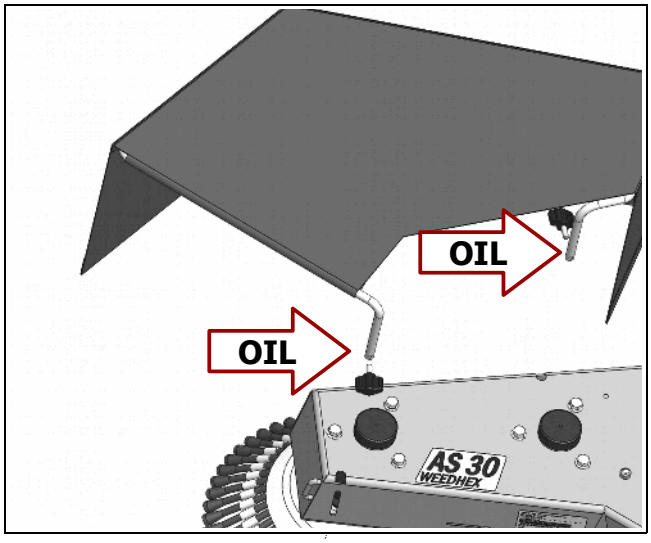


Fig. 14: Lubrication Points

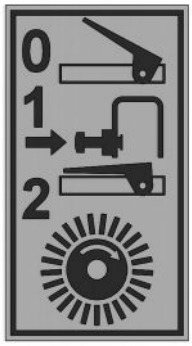
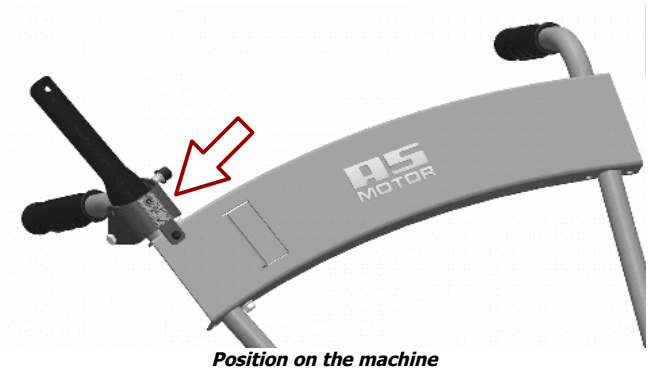


Fig. 15: Safety labels - control lever



Position on the machine

No.: 1 2 3 4

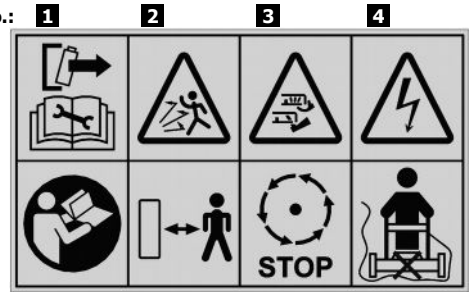
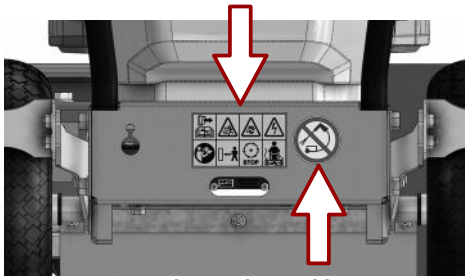


Fig. 16: Safety labels – Combined sticker

Fig. 17: Information pictogram – washing



Location on the machine

AS-Motor GmbH
Ellwanger Straße 15
D-74424 Bühlertann
www.as-motor.com

AS-Motor is a leading manufacturer of grass and tall vegetation mowers and weed removing products. To our customer, we offer professional technology for steep slopes and poorly accessible grounds and for lawn care. With our wide product range, from the manually steered basic machine to remotely controlled machines, we offer individual customers, service providers, municipalities and road maintenance companies always the right product. Based in South Germany, we have been active in the business for over 60 years, developing and manufacturing products with a high value added and putting them on the market in more than 45 countries all over the world.

Mulching mowers	AS-Motor mulching mowers cut the grass to fine pieces, so it is left on the lawn as almost “invisible” fertilizer. Disposal of the cut grass in not necessary.
Professional mowers	Professional mowers with rear or side ejection for all kinds of use, even with all-wheel drive, brake and reverse.
Allmäher®	Tossing grass mowers for extensive care of greenery. Allmäher® machines reliably mow 1 meter tall grass, shrubs and weeds.
Flail mulchers	Tall grass with shrubs, steep slope or large areas in unknown terrain? Floating flail blades of the AS-Motor flail mulchers avoid stones and obstacles and crush the cut plants into several pieces.
Tractor Mowers	Large areas, weeds, thicket or very tall grass – that’s what the AS-Motor’s tractor mowers are ideal for. And when fitted with an all-wheel drive, they can also cope with a poorly accessible ground.
Tool/Accessory Carriers	AS-Motor tool/accessory carriers improve flexibility in service providers’ everyday activities. Among the areas where the carriers are beneficial are insect-friendly mowing, sweeping, snow clearing, etc..
Remotely Controlled Mowers	Grass mowing on steep slopes is a challenge to the both the operator and the machine. Modern remotely controlled technology makes this work much easier and safer.
Drum Mowers	Ideal for fodder preparation in the non-professional segment. The uncut grass is put aside in rows.
Weed remover	The AS-Motor weed remover clears mechanically paved areas and kerb edges of too high-grown weed – quickly, safely and efficiently.
AS-Motor Electric	The AS-Motor Electric drive sets a new scale of power, force and endurance. The power of machines equipped with this drive is comparable to that of machines with internal-combustion engines.

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VL-403-2022
CSKV: 63006600231
V1.1 EN