

**RMA 443.3 PV,
RMA 448.3 PV,
RMA 453.3 PV**

STIHL



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- b) **Warten Sie niemals beschädigte Akkus.** Sämtliche Wartung von Akkus sollte nur durch den Hersteller oder bevollmächtigte Kundendienststellen erfolgen.

27.8 Sicherheitshinweise für akku-betriebene Rasenmäher

- a) **Verwenden Sie den Rasenmäher nicht bei schlechtem Wetter, besonders nicht bei Gewitter.** Dies reduziert die Gefahr, von einem Blitz getroffen zu werden.
- b) **Untersuchen Sie den Arbeitsbereich gründlich nach Wildtieren.** Wildtiere können durch den laufenden Rasenmäher verletzt werden.
- c) **Untersuchen Sie den Arbeitsbereich gründlich und entfernen Sie alle Steine, Stöcke, Drähte, Knochen und andere Fremdkörper.** Herausgeschleuderte Teile können zu Verletzungen führen.
- d) **Kontrollieren Sie vor dem Gebrauch des Rasenmähers immer, ob das Mähmesser und das Mähwerk nicht abgenutzt oder beschädigt sind.** Abgenutzte oder beschädigte Teile erhöhen das Verletzungsrisiko.
- e) **Prüfen Sie die Grasfangeinrichtung regelmäßig auf Verschleiß oder Abnutzung.** Eine abgenutzte oder beschädigte Grasfangeinrichtung erhöht das Risiko von Verletzungen.
- f) **Belassen Sie Schutzabdeckungen an ihrem Platz. Schutzabdeckungen müssen einsatzfähig und ordnungsgemäß befestigt sein.** Eine lose, beschädigte oder nicht richtig funktionierende Schutzabdeckung kann zu Verletzungen führen.
- g) **Halten Sie Lufteintrittsöffnungen frei von Ablagerungen.** Blockierte Lufteinlässe und Ablagerungen können zu Überhitzung oder Brandgefahr führen.
- h) **Tragen Sie beim Betrieb des Rasenmähers immer rutschfeste Sicherheitsschuhe. Niemals barfuß oder mit offenen Sandalen arbeiten.** Dadurch vermindern Sie die Gefahr einer Fußverletzung beim Kontakt mit dem rotierenden Mähmesser.
- i) **Tragen Sie beim Betrieb des Rasenmähers immer lange Hosen.** Bloße Haut erhöht die Wahrscheinlichkeit von Verletzungen durch herausgeschleuderte Teile.
- j) **Betreiben Sie den Rasenmäher nicht in nassem Gras. Gehen Sie dabei, niemals rennen.** Dadurch verringern Sie die Gefahr auszurutschen und hinzufallen, was zu Verletzungen führen könnte.

- k) **Betreiben Sie den Rasenmäher nicht auf übermäßig steilen Hängen.** Damit wird das Risiko vermindert, die Kontrolle zu verlieren, auszurutschen und hinzufallen, was zu Verletzungen führen könnte.
- l) **Achten Sie beim Arbeiten an Abhängen auf einen sicheren Stand; arbeiten Sie immer quer zum Abhang, niemals aufwärts oder abwärts, und seien Sie extrem vorsichtig beim Ändern der Arbeitsrichtung.** Damit wird das Risiko vermindert, die Kontrolle zu verlieren, auszurutschen und hinzufallen, was zu Verletzungen führen könnte.
- m) **Seien Sie besonders vorsichtig beim Rückwärtsmähen oder wenn Sie den Rasenmäher zu sich herziehen. Achten Sie immer auf die Umgebung.** Dies reduziert die Stolpergefahr während des Arbeitens.
- n) **Berühren Sie keine Messer oder andere gefährliche Teile, die sich noch bewegen.** Damit vermindern Sie das Risiko einer Verletzung durch sich bewegende Teile.
- o) **Stellen Sie sicher, dass alle Schalter ausgeschaltet sind und der Akku abgetrennt ist, bevor Sie eingeklemmtes Material entfernen oder den Rasenmäher reinigen.** Ein unerwarteter Betrieb des Rasenmähers kann zu ernsthaften Verletzungen führen.

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1 Introduction

Dear Customer,

Thank you for choosing STIHL. We develop and manufacture our quality products to meet our customers' requirements. The products are designed for reliability even under extreme conditions.

STIHL also stands for premium service quality. Our dealers guarantee competent advice and instruction as well as comprehensive service support.

STIHL expressly commit themselves to a sustainable and responsible handling of natural resources. This user manual is intended to help you use your STIHL product safely and in an environmentally friendly manner over a long service life.

We thank you for your confidence in us and hope you will enjoy working with your STIHL product.



Dr. Nikolas Stihl

**IMPORTANT! READ BEFORE USING AND
KEEP IN A SAFE PLACE FOR REFERENCE.**

2 Guide to Using this Manual

2.1 Applicable Documents

This instruction manual is a translation of the original manufacturer's instructions in the sense of EC Directive 2006/42/EC.

Local safety regulations apply.

- In addition to this instruction manual, read, understand and keep the following documents:
 - Safety information for the STIHL battery AP
 - Instruction manual for the STIHL chargers AL 101, 301, 301-4, 501

- Safety information for STIHL batteries and products with built-in battery:
www.stihl.com/safety-data-sheets

Further information on STIHL connected, compatible products and FAQs is available at www.connect.stihl.com or from a STIHL specialist dealer.

The Bluetooth® word mark and figurative marks (logos) are registered trademarks and the property of Bluetooth SIG, Inc. Any use of this word mark/figurative marks by STIHL is under license.

Batteries with  are equipped with a Bluetooth® radio interface. Local operating restrictions (e.g. in airplanes or hospitals) must be observed.

2.2 Warning Notices in Text



DANGER

- This notice refers to risks which result in serious or fatal injury.
 - Serious or fatal injuries can be avoided by taking the precautions mentioned.



WARNING

- This notice refers to risks which **can** result in serious or fatal injury.
 - Serious or fatal injuries can be avoided by taking the precautions mentioned.

NOTICE

- This notice refers to risks which can result in damage to property.
 - Damage to property can be avoided by taking the precautions mentioned.

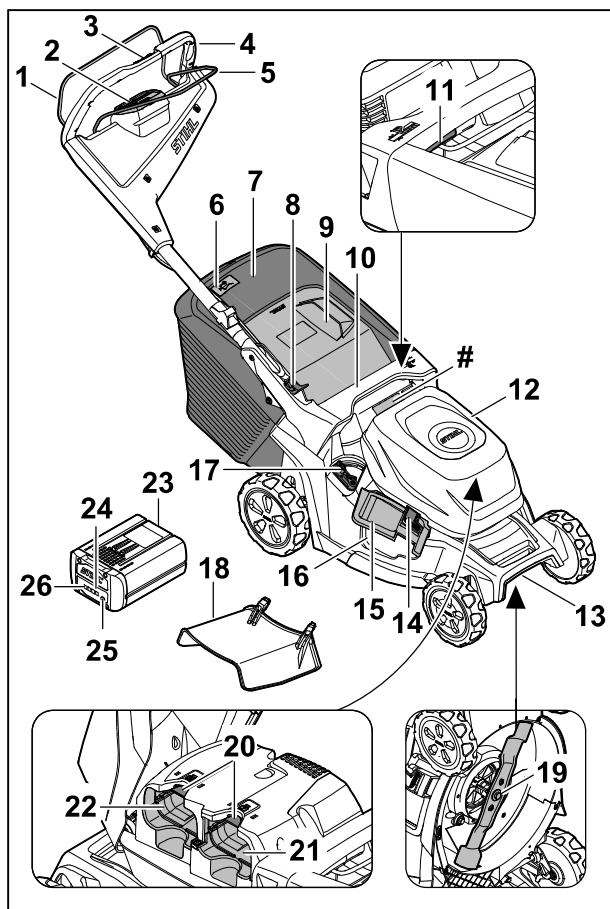
2.3 Symbols in Text



This symbol refers to a chapter in this instruction manual.

3 Overview

3.1 Lawn mower and battery



1 Control bar for mowing

The control bar for mowing operation switches the blade on and off in conjunction with the activation button on the operating unit.

2 Operating unit, 3.2

The operating unit (HMI) is used to activate the lawn mower, select mowing modes, read off the battery levels and display faults.

3 Self-propulsion operating unit, 3.3

The operating unit is used for setting and reading off the self-propulsion speed.

4 Handlebar

The handlebar is used to hold, guide and transport the lawn mower.

5 Control bar for self-propulsion

The control bar for self-propulsion switches self-propulsion on and off and is used to set the speed.

6 Level indicator

The level indicator indicates the filling level of the grass catcher box.

7 Grass catcher box

The grass catcher box collects the grass cuttings.

8 Lever

The lever is used to adjust and fold down the handlebar.

9 Discharge flap

The discharge flap closes the discharge chute.

10 Handle

The handle is used to hold the lawn mower when adjusting the cutting height and to transport the lawn mower.

11 Lever

The lever is used to set the cutting height.

12 Flap

The flap covers the batteries.

13 Carrying handle

The carrying handle is used to transport the lawn mower.

14 Safety latch

The safety latch keeps the side discharge flap closed.

15 Side discharge flap

The side discharge flap closes the side discharge opening.

16 Side discharge opening

The side discharge opening discharges the cut grass to the side.

17 Lever

The lever serves to open and close the integrated mulch flap.

18 Extension

The extension discharges the cut grass to the side onto the ground.

19 Blades

The blade mows and mulches the grass.

20 Locking lever

The locking lever holds the battery in the battery compartment.

21 Battery compartment 1

Battery compartment 1 holds the battery.

22 Battery compartment 2

Battery compartment 2 holds a second battery.

23 Battery

The battery supplies the lawn mower with power.

24 "BLUETOOTH®" LED (only for batteries with

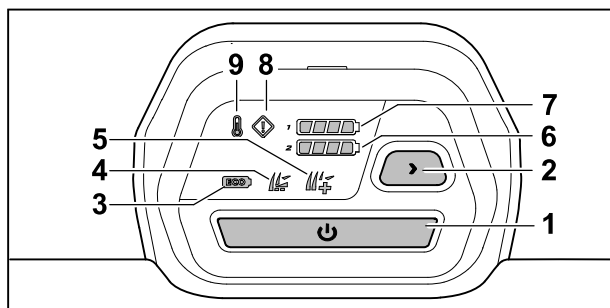
The LED indicates whether the Bluetooth® radio interface is activated or deactivated.

25 Pushbutton

The pushbutton activates the LEDs on the battery. It activates and deactivates the Bluetooth® interface (if available).

26 LEDs

The LEDs indicate the state of charge of the battery and any errors.

Rating plate with serial number**3.2 Operating Unit****1 ON button**

This button switches the lawn mower on and, together with the control lever for mowing, activates the blade.

2 Mowing mode button

This button is used to change mowing modes.

3 ECO mode indicator

This LED indicates ECO mode.

4 Standard mode indicator

This LED indicates Standard mode.

5 AUTO-BOOST mode indicator

This LED indicates AUTO-BOOST mode.

6 Battery charge state indicator

When the ON button is pressed, the LEDs indicate the charge state of the battery in battery compartment 2.

7 Battery charge state indicator

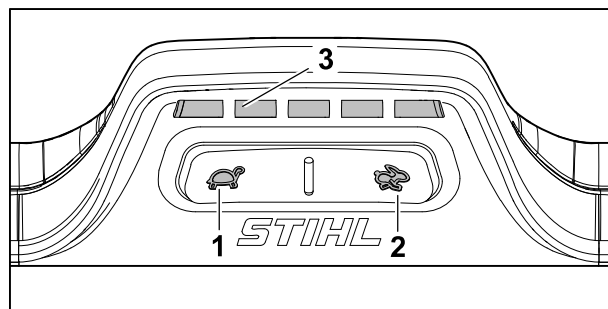
When the ON button is pressed, the LEDs indicate the charge state of the battery in battery compartment 1.

8 Fault indicator

This indicator shows faults in the lawn mower.

9 Overheating indicator

This indicator shows overheating of the lawn mower.

3.3 Self-propulsion Control**1 Button**

The button is used to reduce the self-propulsion speed.

2 Button

The button is used to increase the self-propulsion speed.

3 Display

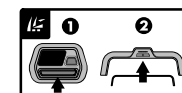
The LEDs indicate the set self-propulsion speed.

3.4 Symbols

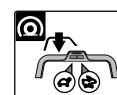
The symbols may appear on the lawn mower and the battery. Their meaning is as follows:



Guaranteed sound power level in accordance with Directive 2000/14/EC in dB(A) for the purpose of comparing the sound emissions of products.



Switch on the blade.



Switch on self-propulsion and set the travel speed.



Increase the travel speed.



Reduce the travel speed.



Set the cutting height.



Level indicator of the grass catcher box.



Lever for opening and closing the mulch flap.



Activate the lawn mower.



Overheating indicator.



Error indicator.



Battery state of charge indicator.



Button for selecting the mowing modes.



ECO mode.



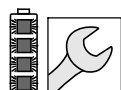
Standard mode.



AUTO-BOOST mode.



1 LED lights up red. The battery is too warm or too cold.



4 LEDs flash red. There is an error in the battery.



Recharge this battery with a STIHL charger. The admissible chargers are listed in these safety instructions.



The battery is equipped with a Bluetooth® radio interface and can be paired with the STIHL connected app.



The information next to the symbol indicates the energy content of the battery according to the cell manufacturer's specification. The energy content available in operation is lower.



Do not dispose of the product with domestic waste.

IPX4 IP marking

a.c. Alternating current



d.c. Direct current



4 Safety Precautions

4.1 Warning symbols

⚠ WARNING

Meanings of warning symbols on the lawn mower and the battery:



Follow the safety instructions and take the necessary precautions.



Read and understand the User Manual and keep it in a safe place for reference.



Beware of ejected objects: Keep a safe distance and keep other people away.



Keep hands and feet out of the reach of the blades.



Remove the battery during work interruptions, cleaning, transport, storage, maintenance or repair.



Remove the battery after operation.



Protect the battery against heat and fire.



Do not immerse the battery in liquids.

4.2 Intended Use

The STIHL RMA 443.3 PV, RMA 448.3 PV or RMA 453.3 PV lawn mower is used to mow and mulch dry grass.

The lawn mower is supplied with power by a STIHL AP battery. To be able to use all functions without restriction, STIHL recommends at least AP 300 S.

The battery with  allows personalisation and transmission of information to the battery in combination with the STIHL connected app on the basis of Bluetooth® technology.

WARNING

- Batteries not approved by STIHL for the lawn mower may cause fires and explosions. This may result in serious or fatal injury to people and damage to property.
 - ▶ Use the lawn mower with a STIHL AP.
- Failure to use the lawn mower or battery as intended may result in serious or fatal injury to people and damage to property.
 - ▶ Use the lawn mower and battery as described in this instruction manual.

4.3 Requirements for the User

WARNING

- Uninstructed users cannot recognise or evaluate the dangers posed by the lawn mower and battery. This may result in serious or fatal injury to the user or other people.



- ▶ Read, understand and keep the instruction manual.

- ▶ If passing on the lawn mower or battery to another person: provide them with the instruction manual also.
- ▶ Make sure that the user meets the following conditions:
 - The user is rested.
 - The user is physically, sensorily and mentally capable of operating the lawn mower and battery and working with them. If the user is physically, sensorily or mentally impaired, the machine must only be used under supervision or following instruction by a responsible person.
 - The user can recognise and evaluate the dangers posed by the lawn mower and battery.
 - The user is aware that they are responsible for accidents and damage.
 - The user is of legal age or the user is being trained under supervision in a profession in accordance with national regulations.
 - The user has received instruction from a STIHL specialist dealer or a competent person before using the lawn mower for the first time.

- The user is not impaired by alcohol, medicines or drugs.

- ▶ If anything is unclear: consult a STIHL specialist dealer.

4.4 Clothing and Equipment

WARNING

- Objects may be thrown up at high velocity while working. This may result in injury to the user.
 - ▶ Wear long trousers made from resistant material.
- Dust may be stirred up while working. Breathing in dust may be harmful to health and cause allergic reactions.
 - ▶ If dust is stirred up: wear a dust mask.
- Unsuitable clothing may get caught on wood, briars and in the lawn mower. This may result in serious injury to the user.
 - ▶ Wear close-fitting clothing.
 - ▶ Remove scarves and jewellery.
- The user may come into contact with the blade during cleaning, maintenance or transport. This may result in injury to the user.
 - ▶ Wear protective gloves.
- Wearing unsuitable footwear may cause the user to slip. This may result in injury to the user.
 - ▶ Wear sturdy, closed-toed footwear with high-grip soles.
- Material particles may be expelled when sharpening the blade. This may result in injury to the user.
 - ▶ Wear close-fitting safety glasses. Suitable safety glasses are tested in accordance with EN 166 or national regulations and available commercially with the corresponding marking.
 - ▶ Wear protective gloves.

4.5 Work Area and Surroundings

4.5.1 Lawn Mower

WARNING

- Bystanding people, children and animals cannot recognise or evaluate the dangers posed by the lawn mower and objects expelled at high speed by the mower. This may result in serious injury to bystanding people, children and animals and damage to property.
 - ▶ Keep bystanding people, children and animals out of the work area.
 - ▶ Maintain a distance from objects.
 - ▶ Do not leave the lawn mower unattended.

- ▶ Make sure that children cannot play with the lawn mower.
- Working in the rain may cause the user to slip. This may result in serious or fatal injury to the user.
 - ▶ Do not work when it is raining.
- The lawn mower is not waterproof. Working in the rain or in a damp environment may result in electric shock. This may result in injury to the user and damage to the lawn mower.
 - ▶ Do not work in the rain or in a damp environment.
 - ▶ Do not mow and mulch wet grass.
- Electrical components of the lawn mower may produce sparks. Sparks may cause fires and explosions in highly flammable or explosive environments. This may result in serious or fatal injury to people and damage to property.
 - ▶ Do not work in a highly flammable or explosive environment.

4.5.2 Battery

⚠ WARNING

- Bystanders, children and animals cannot recognize or assess the dangers of the battery. Bystanders, children and animals may be seriously injured.
 - ▶ Keep bystanders, children and animals away from the work area.
 - ▶ Do not leave the battery unattended.
 - ▶ Make sure that children cannot play with the battery.
- The battery is not protected against all ambient conditions. If the battery is exposed to certain ambient conditions, the battery may catch fire, explode or be irreparably damaged. This may result in serious injury to people and damage to property.



- ▶ Protect battery from heat and fire.
- ▶ Do not throw the battery into a fire.

- ▶ Do not charge, use and store the battery outside of the specified temperature limits,  21.4.



- ▶ Do not immerse the battery in liquids.

- ▶ Keep battery away from small metal parts.
- ▶ Do not expose the battery to high pressure.
- ▶ Do not expose the battery to microwaves.
- ▶ Protect the battery from chemicals and salts.

4.6 Safe Condition

4.6.1 Lawn Mower

The lawn mower is in safe condition when the following conditions are met:

- The lawn mower is free from damage.
- The lawn mower is clean and dry.
- The controls are working and have not been modified.
- If mowing and the mown grass is to be collected in the grass catcher box: the mulch flap is open, the extension is detached and the grass catcher box is correctly attached.
- If mowing and the mown grass is to be ejected to the rear: the grass catcher box is detached and the discharge flap is closed.
- If mowing and the mown grass is to be directed to the ground from the side: the mulch flap is closed and the extension is correctly engaged.
- If mulching: the extension is disengaged and the mulch flap is closed.
- The blade is correctly attached.
- Genuine STIHL accessories for this lawn mower are correctly attached.

⚠ WARNING

- If not in safe condition, components may no longer operate correctly and safety devices may be disabled. This may result in serious or fatal injury to people.
 - ▶ Do not use a damaged lawn mower.
 - ▶ If the lawn mower is dirty or wet: clean the lawn mower and allow it to dry.
 - ▶ Do not modify the lawn mower.
 - ▶ If the controls are not working: do not use the lawn mower.
 - ▶ If mowing and the mown grass is to be collected in the grass catcher box: open the mulch flap, detach the extension and attach the grass catcher box as described in this instruction manual.
 - ▶ If mowing and the mown grass is to be directed to the ground from the side: close the mulch flap and attach the extension as described in this instruction manual.
 - ▶ If mulching: detach the extension and close the mulch flap as described in this instruction manual.
 - ▶ Attach genuine STIHL accessories for this lawn mower.
 - ▶ Attach the blade as described in this instruction manual.
 - ▶ Attach accessories as described in this instruction manual or in the instruction manual for the accessories.

- ▶ Do not insert objects into the apertures in the lawn mower.
- ▶ Never connect the key receptacle terminals to metallic objects and cause a short circuit.
- ▶ Replace worn or damaged warning signs.
- ▶ If anything is unclear: consult a STIHL specialist dealer.

4.6.2 Blade

The blade is in safe condition when the following conditions are met:

- The blade and attachments are undamaged.
- The blade is not deformed.
- The blade is correctly attached.
- The blade is correctly sharpened.
- The blade is burr-free.
- The blade is correctly balanced.
- The minimum thickness and minimum width of the blade are not fallen below,  21.2.
- The sharpening angle is observed,  21.2.

WARNING

- In unsafe condition, blade parts may come loose and be expelled. This may result in serious injury to people.
 - ▶ Use an undamaged blade and attachments.
 - ▶ Attach the blade correctly.
 - ▶ Sharpen the blade correctly.
 - ▶ If the minimum thickness or minimum width is fallen below: replace the blade.
 - ▶ Have the blade balanced by a STIHL specialist dealer.
 - ▶ If anything is unclear: consult a STIHL specialist dealer.

4.6.3 Battery

The battery is in a safe condition if the following points are observed:

- Battery is undamaged.
- The battery is clean and dry.
- Battery functions properly and has not been modified.

WARNING

- A battery that is not in a safe condition cannot operate safely. Persons may be seriously injured.
 - ▶ Never work with a damaged battery.
 - ▶ Never attempt to charge a damaged or defective battery.
 - ▶ If the battery is dirty: Clean the battery.
 - ▶ If the battery is wet or damp: Allow the battery to dry,  21.5.
 - ▶ Never attempt to modify the battery.
 - ▶ Never insert objects in the battery's openings.

- ▶ Never bridge the battery's contacts with metallic objects (short circuit).
- ▶ Do not open the battery.
- ▶ Replace worn or damaged labels.
- Fluid may leak from a damaged battery. If that liquid comes into contact with the skin or eyes, the skin or eyes may be irritated.
 - ▶ Avoid contact with the liquid.
 - ▶ If skin contact occurs: Wash affected areas of skin with plenty of water and soap.
 - ▶ In the event of contact with eyes: Rinse eyes with plenty of water for at least 15 minutes and consult a doctor.
- A damaged or defective battery may smell unusual, emit smoke or burn. Persons may be seriously or fatally injured, and property may be damaged.
 - ▶ If the battery smells unusual or emits smoke: do not use the battery and keep it away from combustible substances.
 - ▶ If the battery catches fire: Attempt to extinguish the battery with a fire extinguisher or water.

4.7 Working

WARNING

- In certain situations, the user may no longer be able to concentrate on their work. This may result in the user stumbling, falling and becoming seriously injured.
 - ▶ Work calmly and carefully.
 - ▶ If the light and visibility conditions are poor: do not use the lawn mower.
 - ▶ Operate the lawn mower alone.
 - ▶ Watch out for obstacles.
 - ▶ Do not tilt the lawn mower.
 - ▶ Work standing on the ground and maintain balance.
 - ▶ If signs of fatigue occur: take a break.
 - ▶ If mowing on a slope: Mow across the slope.
 - ▶ Do not work on slopes with an inclination greater than 25° (46.6%).
- Hard objects hitting the rotating blade can damage the lawn mower.
 - ▶ If a hard object hits the rotating blade, switch off the lawn mower, remove the battery and check the lawn mower for damage.
 - ▶ If the lawn mower is damaged: consult a STIHL specialist dealer.
- The turning blade may cut the user. This may result in serious injury to the user.



- ▶ Do not touch a turning blade.
- ▶ If the blade is blocked by an object: Switch the lawn mower off and remove the battery. Only then remove the object.
- If working without self-propulsion when mowing, self-propulsion may unintentionally be engaged and the lawn mower may start moving. This may result in serious injury to people and damage to property.
 - ▶ Only press the control bar for self-propulsion if self-propulsion is to be engaged.
- If the lawn mower changes or starts to behave differently when working, it may not be in safe condition. This may result in serious injury to people and damage to property.
 - ▶ Stop working, remove the battery and consult a STIHL specialist dealer.
- The lawn mower may cause vibrations when working.
 - ▶ Wear protective gloves.
 - ▶ Take breaks.
 - ▶ If signs of a circulatory disturbance occur: consult a doctor.
- If the blade hits a foreign object when working, the foreign object or parts of it may be damaged or thrown up at high velocity. This may result in injury to people and damage to property.
 - ▶ Remove foreign objects from the work area.
- When the control bar for mowing is released, the blade continues to turn for a short time. This may result in serious injury to people.
 - ▶ Wait until the blade is no longer turning.
- Sparks may be produced if the turning blade hits a hard object. Sparks may cause fires in highly flammable environments. This may result in serious or fatal injury to people and damage to property.
 - ▶ Do not work in a highly flammable environment.
- If the lawn mower is stopped on a sloping surface, it may unintentionally roll away. This may result in injury to people and damage to property.
 - ▶ Only let go of the lawn mower if it is on a level surface and cannot roll away by itself.
- If objects are attached to the handlebar, the additional weight may cause the lawn mower to tip over. This may result in injury to people and damage to property.
 - ▶ Do not attach objects to the handlebar.

! DANGER

- If working near live wires, the blade may come into contact with the live wires and damage

them. This may result in serious or fatal injury to the user.

- ▶ Do not work near live wires.
- The user may be struck by lightning if working during a thunderstorm. This may result in serious or fatal injury to the user.
 - ▶ In case of thunderstorms: Do not continue work.
- The self-propulsion disengages in the event of overload when working on steep slopes. This causes the user to spontaneously have to apply a greater pushing force, which may cause the user to lose control of the lawn mower. The lawn mower may roll towards the user due to its own weight.
 - ▶ Mow across the slope. Ensure a secure footing to maintain control of the lawn mower at all times.

4.8 Transporting

4.8.1 Lawn Mower

! WARNING

- The lawn mower may tip over or move during transport. This may result in injury to people and damage to property.



- ▶ Remove the battery.

- ▶ Secure the lawn mower with lashing straps, belts or a net so it cannot tip over and move.

- If the battery is inserted during transport with self-propulsion disengaged, self-propulsion may unintentionally be engaged and the lawn mower may start moving. This may result in serious injury to people and damage to property.



- ▶ Remove the battery.

4.8.2 Battery

! WARNING

- The battery is not protected against all ambient conditions. The battery may be damaged if it is exposed to certain ambient conditions, and damage to property may occur.
 - ▶ Never transport a damaged battery.
- The battery may turn over or shift during transport. This may result in injury to people and damage to property.

- ▶ Pack the battery in packaging in such a way that it cannot move.
- ▶ Secure the packaging so that it cannot move.

4.9 Storing

4.9.1 Lawn Mower

! WARNING

- Children cannot recognise or evaluate the dangers posed by the lawn mower. There is a risk of serious injury to children.



- ▶ Remove the battery.

- ▶ Keep the lawn mower out of reach of children.

- Moisture may cause corrosion to the electrical contacts on the lawn mower and metal components. This may result in damage to the lawn mower.



- ▶ Remove the battery.

- ▶ Keep the lawn mower clean and dry.

- If the battery is inserted during storage, the blade and the self-propulsion mechanism may unintentionally be activated. This may result in serious injury to people and damage to property.



- ▶ Remove the battery.

- If the lawn mower is kept on a sloping surface, it may unintentionally roll away. This may result in injury to people and damage to property.
 - ▶ The lawn mower should only be kept on level surfaces.

4.9.2 Battery

! WARNING

- Children cannot recognise or evaluate the dangers posed by batteries. There is a risk of serious injury to children.
 - ▶ Keep the battery out of reach of children.
- The battery is not protected against all ambient conditions. If exposed to certain ambient conditions, the battery may be irreparably damaged.
 - ▶ Keep the battery clean and dry.
 - ▶ Store the battery in an enclosed space.

- ▶ Store the battery separately from the lawn mower.
- ▶ If the battery is stored in the charger: disconnect the mains plug and store the battery at a charge state between 40% and 60% (2 LEDs illuminated green).
- ▶ Do not store the battery outside the specified temperature limits, 21.4.

4.10 Cleaning, Maintenance and Repair

! WARNING

- If the battery is inserted during cleaning, maintenance or repair, the blade may unintentionally be activated. This may result in serious injury to people and damage to property.



- ▶ Remove the battery.

- If the battery is inserted during cleaning, maintenance and repair, self-propulsion may unintentionally be engaged and the lawn mower may start moving. This may result in serious injury to people and damage to property.



- ▶ Remove the battery.

- Abrasive cleaning agents, sharp objects or using a jet of water for cleaning may result in damage to the lawn mower, blade and battery. If the lawn mower, blade and battery are not cleaned correctly, components may no longer operate correctly and safety devices may be disabled. This may result in serious injury to people.

- ▶ Clean the lawn mower, blade and battery as described in this instruction manual.
- If the lawn mower, blade or battery are not maintained or repaired correctly, components may no longer operate correctly and safety devices may be disabled. This may result in serious or fatal injury to people.
 - ▶ Do not maintain or repair the lawn mower or battery yourself.
 - ▶ If the lawn mower or battery need to be maintained or repaired: consult a STIHL specialist dealer.
 - ▶ Maintain the blade as described in this instruction manual.
- The user may cut themselves on sharp cutting edges during blade cleaning, maintenance or repair. This may result in injury to the user.
 - ▶ Wear protective gloves.

- The blade may become hot during sharpening. This may result in the user burning themselves.
 - ▶ Wait until the blade has cooled down.
 - ▶ Wear protective gloves.
- The blade on the lawn mower is movable even when the engine is switched off. During maintenance of the blade, the user may be injured by the moving blade.
 - ▶ Work carefully.
 - ▶ Wear protective gloves.
- The blade on the lawn mower is movable. During blade maintenance, the user may trap their fingers between the moving blade and fixed parts of the lawn mower.
 - ▶ Work carefully.
 - ▶ Wear protective gloves.

5 Preparing the Lawn Mower for Operation

5.1 Preparing the Lawn Mower for Operation

The following steps must be performed before commencing work:

- ▶ Remove packaging material and transport locks.
- ▶ Make sure that the following components are in safe condition:
 - Lawn mower, 4.6.1.
 - Blade, 4.6.2.
 - Battery, 4.6.3.
- ▶ Check the battery, 12.3.
- ▶ Fully charge the battery, 6.1.
- ▶ Clean the lawn mower, 17.2.
- ▶ Check the blade, 12.2.
- ▶ Fold up the handlebar, 9.1.
- ▶ Adjust the handlebar, 9.3.
- ▶ If mowing and the grass is to be collected in the grass catcher box:
 - ▶ Detach the extension, 8.2.2.
 - ▶ Open the mulch flap, 13.5.1.
 - ▶ Attach the grass catcher box, 8.1.2.
- ▶ If mowing and the grass is to be directed to the ground from the side:
 - ▶ Close the mulch flap, 13.5.2.
 - ▶ Attach the extension, 8.2.1.
- ▶ If mulching:
 - ▶ Close the mulch flap, 13.5.2.
 - ▶ Detach the extension, 8.2.2.
- ▶ Set the cutting height, 13.2.
- ▶ Check the controls, 12.1.

- ▶ If the steps cannot be performed: do not use the lawn mower and consult a STIHL specialist dealer.

5.2 Connecting a battery with Bluetooth® radio interface with the STIHL connected app

- ▶ Activate the Bluetooth® radio interface on the mobile device.
- ▶ Activating the Bluetooth® radio interface on the battery, 7.
- ▶ Download the STIHL connected app to the mobile device from the App Store and create an account.
- ▶ Open and sign in to the STIHL connected app.
- ▶ Add the battery in the STIHL connected app and follow the instructions on the screen.

For contacts and other information, please visit <https://support.stihl.com> or see the STIHL connected app.

The STIHL connected app is available internationally.

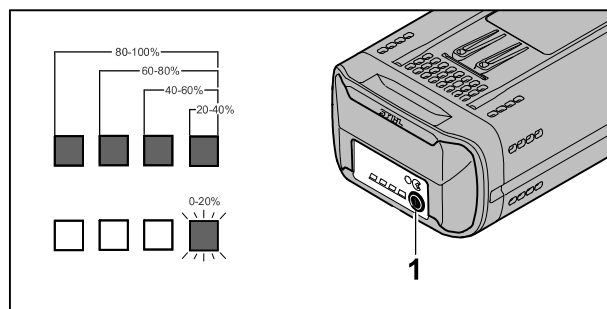
6 Charging the Battery, LEDs

6.1 Charging the battery

The charging time depends on various factors, e.g. the battery temperature or the ambient temperature. For optimal performance, note the recommended temperature ranges, 21.5. The actual charging time may vary from the charging time indicated. The charging time is indicated at www.stihl.com/charging-times.

- ▶ Recharge the battery as described in the User Manual for STIHL AL 101, 301, 301-4, 501 chargers.

6.2 Displaying the Charge State



- ▶ Press button (1). The LEDs illuminate green for approx. 5 seconds to indicate the charge state.
- ▶ If the right LED flashes green: charge the battery.

6.3 LEDs on Battery

The LEDs can show the state of charge or malfunctions. The LEDs can glow or flash green or red.

The state of charge is indicated when the LEDs glow or flash green.

- ▶ If the LEDs glow or flash red: Troubleshooting,  20.1.

There is a malfunction in the mower or battery.

7 Activating and Deactivating Bluetooth® Radio Interface

7.1 Activating the Bluetooth® Radio Interface

- ▶ If the battery has a Bluetooth® radio interface: Press and hold the pushbutton until the "BLUETOOTH®" LED next to the  symbol lights up blue for approximately 3 seconds. The Bluetooth® radio interface on the battery is activated.

7.2 Deactivating the Bluetooth® Radio Interface

- ▶ If the battery has a Bluetooth® radio interface: Press and hold the pushbutton until the "BLUETOOTH®" LED next to the  symbol lights up blue six times. The Bluetooth® radio interface on the battery is deactivated.

7.3 Reset battery to the factory setting via a Bluetooth® radio interface (AP 200.0 S, 300 S, 300.0 S, 500.0 S only)

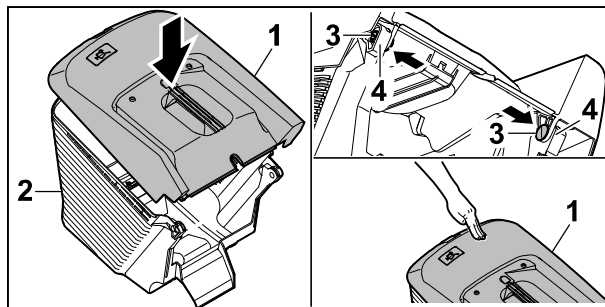
Resetting the battery to the factory setting means that all user-specific data will be deleted.

- ▶ Press the pushbutton four (4) times in quick succession and keep it pressed on the fourth time until the "BLUETOOTH®" LED next to the  symbol flashes blue.
- ▶ Then release the pushbutton immediately.
- ▶ Connect the battery to the STIHL connected app and check whether all user-specific data has been deleted.

8 Assembling the Lawn Mower

8.1 Assembling, Attaching and Detaching the Grass Catcher Box

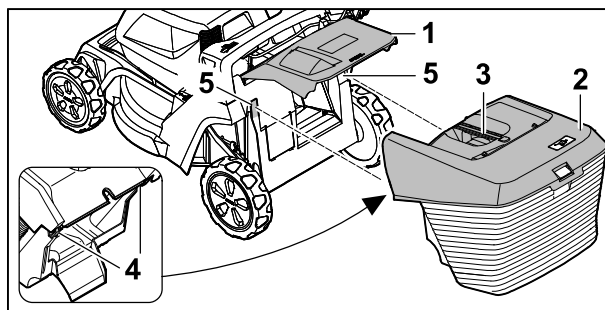
8.1.1 Assembling the Grass Catcher Box



- ▶ Fit upper part of grass catcher box (1) onto lower part of grass catcher box (2).
- ▶ Press pins (3) through openings (4) from the inside.
- ▶ Press upper part of grass catcher box (1) downwards. The upper part of the grass catcher box engages with a click.

8.1.2 Attaching the Grass Catcher Box

- ▶ Switch the lawn mower off.
- ▶ Place the lawn mower on a level surface.



- ▶ Open discharge flap (1) and hold it open.
- ▶ Take hold of grass catcher box (2) by handle (3) and attach to mounts (5) from above using hooks (4).
- ▶ Set down discharge flap (1) on grass catcher box (2).

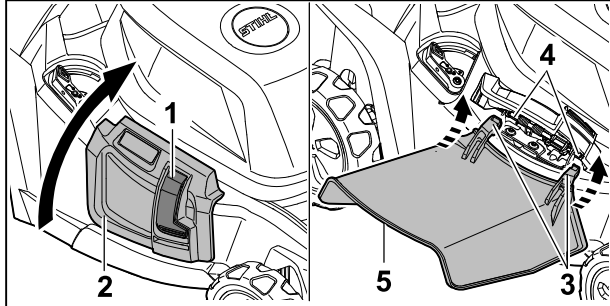
8.1.3 Detaching the Grass Catcher Box

- ▶ Switch the lawn mower off.
- ▶ Place the lawn mower on a level surface.
- ▶ Open the discharge flap and hold it open.
- ▶ Remove the grass catcher box upwards by the handle.
- ▶ Close the discharge flap.

8.2 Attaching and Detaching the Extension

8.2.1 Attaching the Extension

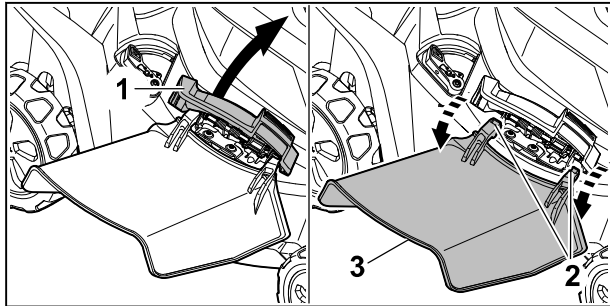
- ▶ Switch the lawn mower off and remove the battery.
- ▶ Place the lawn mower on a level surface.



- ▶ Press lock (1) and hold.
- ▶ Open side discharge flap (2) and hold it open.
- ▶ Attach both hooks (3) to the axle (4) from below.
- ▶ Set down side discharge flap (2) on extension (5).

8.2.2 Detaching the Extension

- ▶ Switch the lawn mower off and remove the battery.
- ▶ Place the lawn mower on a level surface.

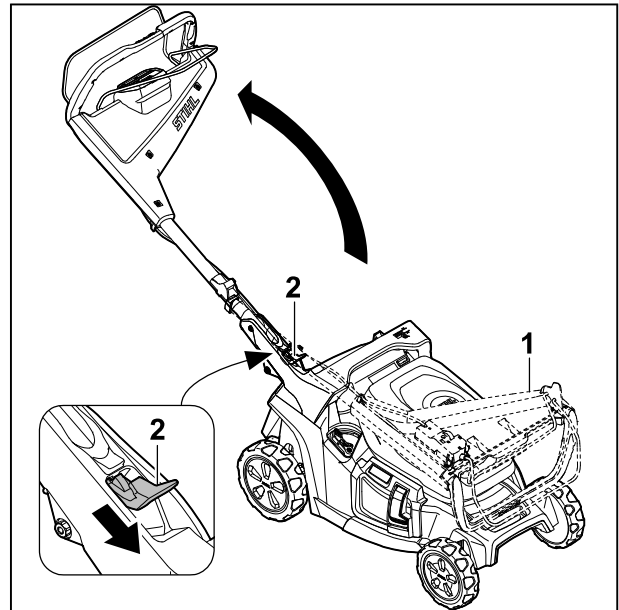


- ▶ Open side discharge flap (1) and hold it open.
- ▶ Unhook both hooks (2).
- ▶ Fold extension (3) upwards and remove.
- ▶ Close side discharge flap (1).

9 Adjusting the Lawn Mower for the User

9.1 Folding open the handlebar

- ▶ Switch off the lawn mower and remove the battery.
- ▶ Place the lawn mower on a level surface.



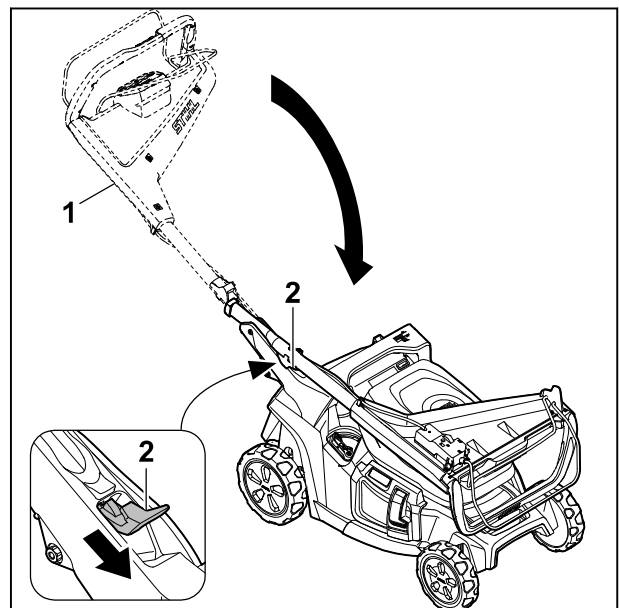
- ▶ Hold the handlebar (1) securely.
- ▶ Depress the lever (2) and keep it pressed.
- ▶ Fold open the handlebar (1).
- ▶ Release the lever (2).

The handlebar engages in position with an audible click.

9.2 Folding down the handlebar

The handlebar can be folded down for space-saving transport and storage.

- ▶ Switch off the lawn mower and remove the battery.
- ▶ Place the lawn mower on a level surface.

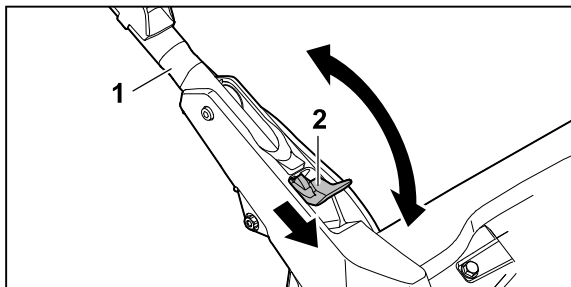


- ▶ Hold the handlebar (1) securely.
- ▶ Depress the lever (2) and keep it pressed.
- ▶ Fold down handlebar (1).
- ▶ Release the lever (2).

The handlebar engages in position with an audible click.

9.3 Adjusting the Handlebar

- Switch the lawn mower off and remove the battery.
- Place the lawn mower on a level surface.



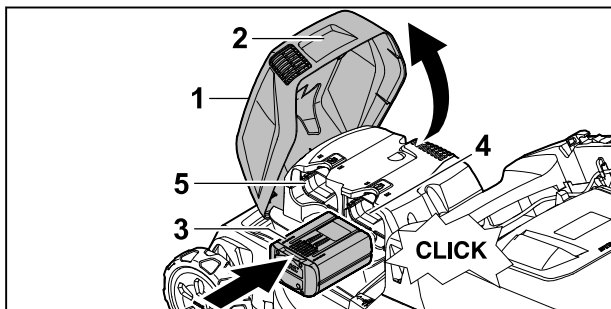
- Hold handlebar (1).
- Press lever (2) downwards and hold.
- Adjust handlebar (1) to the desired position and make sure the handlebar fully engages again.
- Release lever (2).

10 Removing and Fitting the Battery

10.1 Fitting the Battery

The lawn mower can be operated with two batteries. As soon as one battery is discharged, the battery in the other battery compartment is switched to.

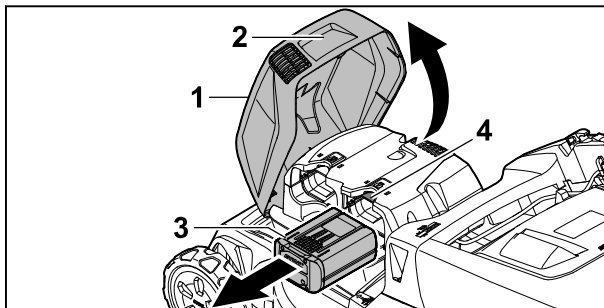
- Place the lawn mower on a level surface.



- Take hold of flap (1) by handle (2), open it as far as it will go and hold it open.
- Press the battery (3) as far as it will go into battery compartment 1 (4) or battery compartment 2 (5).
Battery (3) engages with a click and is locked in place.
- If a second battery is to be carried: fit it in the other battery compartment (4 or 5).
The battery engages with a click and is locked in place.
- Close flap (1).

10.2 Removing the Battery

- Place the lawn mower on a level surface.

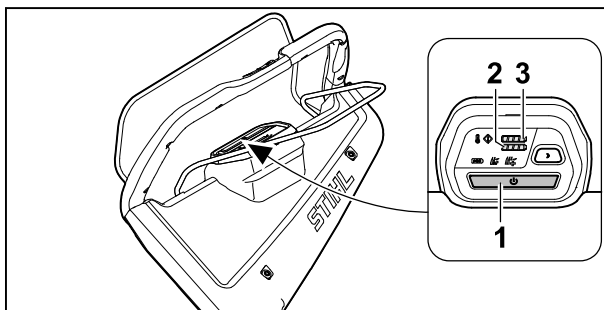


- Take hold of flap (1) by handle (2), open it as far as it will go and hold it open.
- Hold battery (3) and press locking lever (4).
The battery is released.
- Remove battery (3).
- Close flap (1).

11 Switching the Lawn Mower On and Off

11.1 Activating the lawn mower

- Place the lawn mower on a level surface.

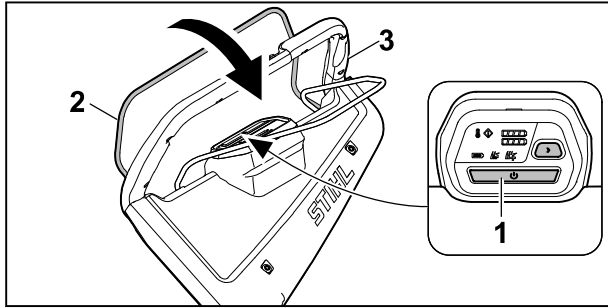


- Press the activation key (1).
The lawn mower is activated.
After three seconds, the mowing mode indicator lights up.
The LEDs (2, 3) indicate the state of charge of the batteries in battery compartments 1 and 2.
After ten minutes without further activity, the lawn mower will switch to sleep mode.

11.2 Activating and Deactivating the Blade

11.2.1 Activating the Blade

- Place the lawn mower on a level surface.



- ▶ Press the ON button (1).
- ▶ Within three seconds, pull control bar for mowing (2) with the left hand fully in the direction of handlebar (3) and hold so the thumb encloses handlebar (3).
The blade rotates.
- ▶ Hold handlebar (3) and control bar for mowing (2) with the right hand so the thumb encloses handlebar (3).

11.2.2 Deactivating the Blade

- ▶ Release the control bar for mowing.
- ▶ Wait until the blade is no longer turning.
- ▶ If the blade continues to turn: remove the battery and consult a STIHL specialist dealer.
The lawn mower is defective.

11.3 Engaging and Disengaging Self-propulsion

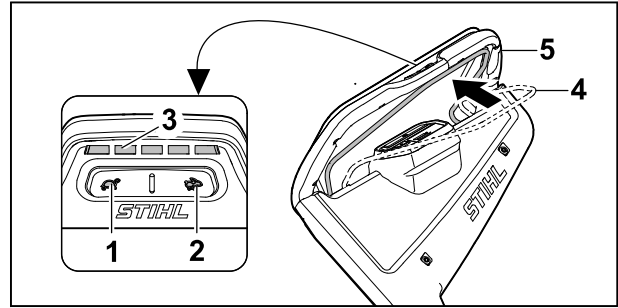
11.3.1 Engaging Self-Propulsion

Use the  and  buttons on the handlebar to preselect the self-propulsion speed in 5 steps. Pressing the  button increases the self-propulsion speed, pressing the  button reduces it. The LEDs on the control indicate the preset self-propulsion speed. If no LED lights up, self-propulsion is switched off.

The control bar for self-propulsion can be used to continuously regulate the speed from 2,0 km/h up to the preselected maximum speed. The further the control bar for self-propulsion is pulled towards the handlebar, the higher the speed,  21.1.

The set speed influences the battery life. The lower the speed, the longer the battery life.

- ▶ Place the lawn mower on a level surface.
- ▶ Switch the lawn mower on.
- ▶ Activate the blade.



- ▶ Use the (1) and (2) buttons to set the desired self-propulsion speed.
The preset self-propulsion speed can be seen from the LEDs (3).
- ▶ Pull the control bar for self-propulsion (4) with the left hand in the direction of handlebar (5) and hold so that the thumb encloses handlebar (5).
The lawn mower starts moving.

11.3.2 Disengaging Self-propulsion

- ▶ Release the control bar for self-propulsion.
- ▶ Wait until the lawn mower comes to a standstill.
- ▶ If the lawn mower continues moving: remove the battery and consult a STIHL specialist dealer.
The lawn mower is defective.

12 Checking the Lawn Mower

12.1 Checking the Controls

Control bar for mowing

- ▶ Remove the battery.
- ▶ Pull the control bar for mowing fully in the direction of the handlebar and release again.
- ▶ If the control bar for mowing is stiff or does not spring back into the initial position: do not use the lawn mower and consult a STIHL specialist dealer.
The control bar for mowing is defective.

Control bar for self-propulsion

- ▶ Remove the battery.
- ▶ Pull the control bar for self-propulsion fully in the direction of the handlebar and release again.
- ▶ If the control bar for self-propulsion is stiff or does not spring back into the initial position: do not use the lawn mower and consult a STIHL specialist dealer.
The control bar for self-propulsion is defective.

Activate the blade

- ▶ Fit the battery.
- ▶ Switch the lawn mower on.

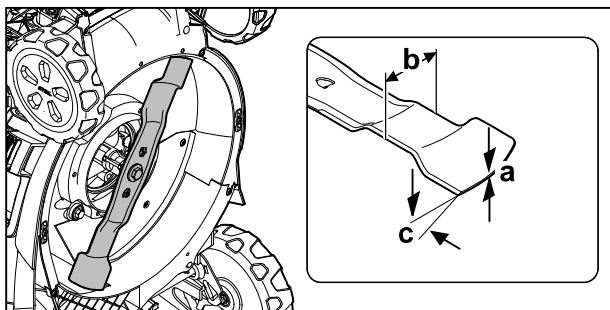
- ▶ Within three seconds, pull control bar for mowing with the left hand fully in the direction of handlebar and hold so the thumb encloses handlebar.
The blade rotates.
- ▶ Release the control bar for mowing.
The blade stops turning after a short time.
- ▶ If the blade continues to turn: remove the battery and consult a STIHL specialist dealer.
The lawn mower is defective.

Engage self-propulsion

- ▶ Fit the battery.
- ▶ Switch the lawn mower on.
- ▶ Setting the self-propulsion speed.
- ▶ Pull the control bar for self-propulsion fully in the direction of the handlebar and hold so the thumb encloses the handlebar.
The lawn mower starts moving.
- ▶ Release the control bar for self-propulsion.
The lawn mower comes to a standstill.
- ▶ If the lawn mower continues moving: remove the battery and consult a STIHL specialist dealer.
The lawn mower is defective.

12.2 Checking the Blade

- ▶ Switch the lawn mower off and remove the battery.
- ▶ Upend the lawn mower,  17.1.



- ▶ Measure the following:
 - Thickness a
 - Width b
 - Sharpening angle c
- ▶ If the minimum thickness or minimum width is fallen below: replace the blade,  21.2.
- ▶ If the sharpening angle is not correct: sharpen the blade,  21.2.
- ▶ If anything is unclear: consult a STIHL specialist dealer.

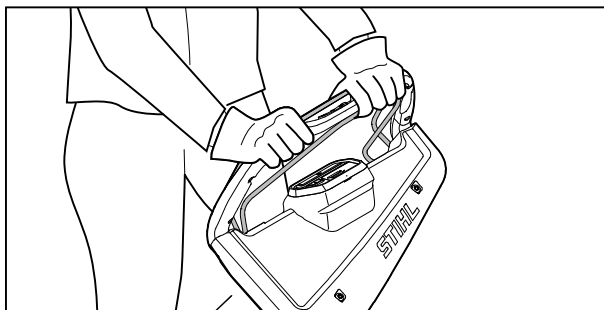
12.3 Testing the Battery

- ▶ Press button on battery.
The LEDs glow or flash.

- ▶ If the LEDs do not glow or flash: Do not use the battery and contact your STIHL servicing dealer.
There is a malfunction in the battery.

13 Operating the Lawn Mower

13.1 Holding and Guiding the Lawn Mower



- ▶ Hold the handlebar with both hands so the thumbs enclose the handlebar.

13.2 Setting the Cutting Height

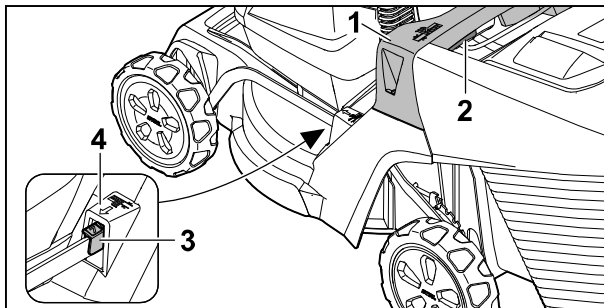
Seven cutting heights can be set:

- 20 mm = position 1
- 30 mm = position 2
- 40 mm = position 3
- 55 mm = position 4
- 70 mm = position 5
- 85 mm = position 6
- 100 mm = position 7

The positions are indicated on the lawn mower.

Setting the cutting height

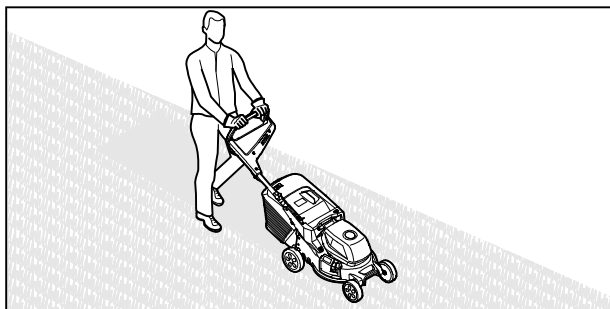
- ▶ Switch the lawn mower off.
The blade must not be turning.
- ▶ Place the lawn mower on a level surface.



- ▶ Hold the lawn mower at handle (1).
- ▶ Press and hold lever (2).
- ▶ Move the lawn mower to the desired position by raising and lowering the lever.
The current cutting height can be read off at cutting height indicator (3) by means of marking (4).
- ▶ Release lever (2).
The lawn mower engages.

13.3 Mowing and Mulching

The lawn mower is equipped with a multi-blade and can be used for mowing or mulching.



- ▶ If working with self-propulsion engaged: drive the lawn mower forwards in a controlled manner.
- ▶ If working with self-propulsion disengaged: push the lawn mower forwards slowly and in a controlled manner.
- ▶ If a foreign object is hit during mowing and the blade is blocked:
 - ▶ Switch the lawn mower off and remove the battery.
 - ▶ Make sure that all moving parts have come to a complete stop.
 - ▶ Check the lawn mower.
 - ▶ If repairs are required: consult a STIHL specialist dealer.
- ▶ If the lawn mower begins to vibrate strongly:
 - ▶ Switch the lawn mower off and remove the battery.
 - ▶ Check the lawn mower.
 - ▶ Check that all nuts, bolts, screws and pins are tight.
 - ▶ If repairs are required: consult a STIHL specialist dealer.

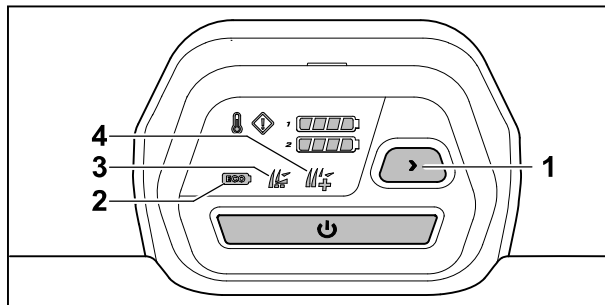
For optimum performance, note the recommended temperature ranges, 21.5.

13.4 Mowing Modes

13.4.1 Selecting the Mowing Mode

Three mowing modes can be selected. The selection is made via the operating unit.

- ECO mode
- Standard mode
- AUTO-BOOST mode



- ▶ Switch the lawn mower on.
- ▶ Press the button (1) to select the desired mowing mode.
The current mode (2, 3, 4) is displayed.

ECO mode

When ECO mode is activated, the lawn mower detects the current working conditions and adjusts the blade speed automatically.

This may extend the battery life.

Standard mode

When Standard mode is activated, the lawn mower mows at a constant blade speed.

AUTO-BOOST mode

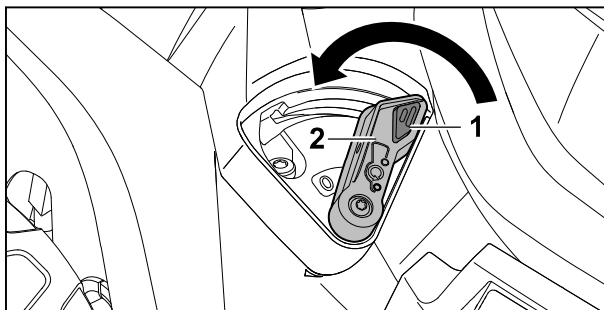
When AUTO-BOOST mode is activated, the lawn mower has more power available for a short time, for example to mow taller and denser grass.

AUTO-BOOST mode affects the battery life. If there is a risk of overheating, the lawn mower automatically switches to Standard mode.

13.5 Opening and closing the mulch flap

13.5.1 Opening the Mulch Flap

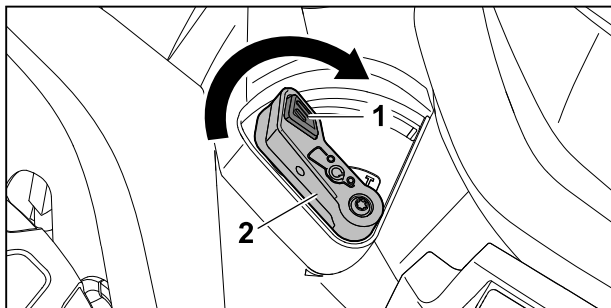
- ▶ Switch the lawn mower off.
- ▶ Place the lawn mower on a level surface.



- ▶ Press lock (1) and hold.
- ▶ Set lever (2) to position 0.
The mulch flap is open.
- ▶ Release lock (1).

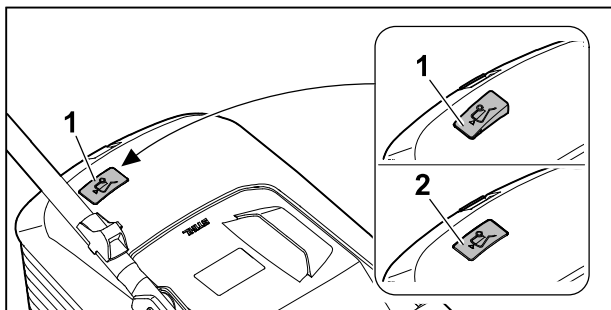
13.5.2 Closing the Mulch Flap

- ▶ Switch the lawn mower off.
- ▶ Place the lawn mower on a level surface.



- ▶ Press lock (1) and hold.
- ▶ Set lever (2) to position I. The mulch flap is closed.
- ▶ Release lock (1).

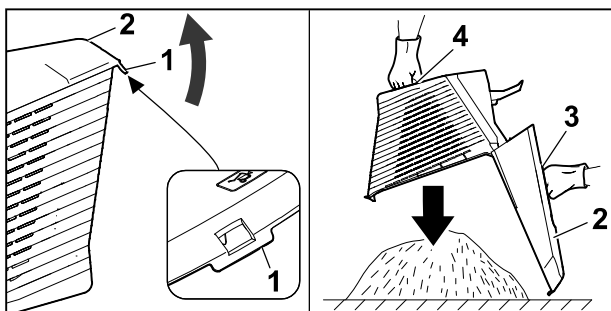
13.6 Emptying the Grass Catcher Box



The flow of air generated by the blade raises level indicator (1). The flow of air stops when the grass catcher box is full. If the flow of air is too low, level indicator (2) returns to its resting state. This is a prompt to empty the grass catcher box.

The functionality of the level indicator is restricted if the flow of air is impaired. External influences such as wet, dense or high grass, low cutting levels, dirt or the like can impair the flow of air and the functionality of the level indicator.

- ▶ If the level indicator drops to its resting state: empty the grass catcher box.
- ▶ Switch the lawn mower off.
- ▶ Detach the grass catcher box.



- ▶ Open tab (1).

- ▶ Open and hold upper part of grass catcher box (2) by handle (3).
- ▶ Hold lower handle (4) with the second hand.
- ▶ Empty the grass catcher box.
- ▶ Close the grass catcher box.
- ▶ Attach the grass catcher box.

14 After Finishing Work

14.1 After Finishing Work

- ▶ Switch the lawn mower off and remove the battery.
- ▶ If the lawn mower is wet: allow it to dry.
- ▶ If the battery is wet or damp: allow it to dry, 21.5.
- ▶ Clean the lawn mower.
- ▶ Clean the battery.

15 Transporting

15.1 Transporting the Lawn Mower

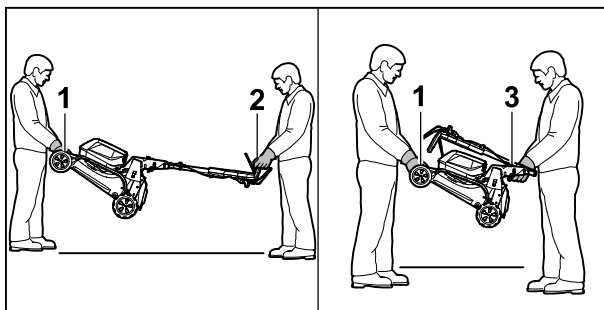
- ▶ If the lawn mower is moved to and from the area to be mowed:
 - ▶ Switch the lawn mower off. The blade must not be turning.
 - ▶ Remove the battery.
- ▶ If the lawn mower must be tilted for transport over areas other than grass:
 - ▶ Switch the lawn mower off. The blade must not be turning.
 - ▶ Remove the battery.

Pushing the lawn mower

- ▶ Push the lawn mower forwards slowly and in a controlled manner.

Carrying the lawn mower

- ▶ Switch the lawn mower off.
- ▶ Remove the battery.
- ▶ Wear protective gloves.
- ▶ Detach the grass catcher box.
- ▶ Detach the extension.



- ▶ If the lawn mower is being carried with the handlebar unfolded:
 - ▶ One person holds the lawn mower by transport handle (1) using both hands and another person holds handlebar (2) using both hands.
 - ▶ The lawn mower must be lifted and carried by two people.
- ▶ If the lawn mower is being carried with the handlebar folded:
 - ▶ Fold the handlebar,  9.2.
 - ▶ One person holds the lawn mower by transport handle (1) using both hands and another person holds handle (3) using both hands.
 - ▶ The lawn mower must be lifted and carried by two people.

Transporting the lawn mower in a vehicle

- ▶ Secure the lawn mower upright so it does not tip over and cannot move.

15.2 Transporting the Battery

- ▶ Switch the lawn mower off and remove the battery.
- ▶ Make sure that the battery is in safe condition.
- ▶ Pack the battery in such a way that it cannot move in the packaging.
- ▶ Secure the packaging so it cannot move.

The battery is subject to the requirements for transporting hazardous goods. The battery is classed as a UN 3480 (lithium-ion battery) and has been tested in accordance with the UN Manual of Tests and Criteria, Part III, subsection 38.3.

Please refer to www.stihl.com/safety-data-sheets for transport instructions.

16 Storing

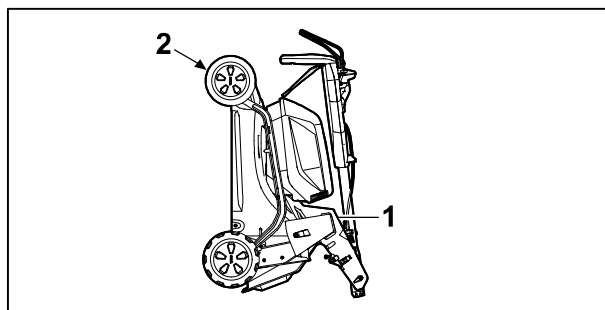
16.1 Storing the Lawn Mower

- ▶ Switch the lawn mower off and remove the battery.
- ▶ Allow the lawn mower to cool down.
- ▶ Empty the grass catcher box.
- ▶ Store the lawn mower in accordance with the following conditions:
 - The lawn mower is out of reach of children.
 - The lawn mower is clean and dry.
 - The lawn mower cannot tip over.
 - The lawn mower cannot roll away.

16.2 Storage Position

The lawn mower can be folded for space-saving storage.

- ▶ Place the lawn mower on a level surface.
- ▶ Detach the grass catcher box.
- ▶ Set the cutting height to the highest setting.  13.2



- ▶ Fold the handlebar.  9.2
- ▶ Hold the lawn mower with one hand on handle (1) and the other hand on transport handle (2) and upend.

16.3 Storing the Battery

STIHL recommends storing the battery at a charge state between 40% and 60% (2 LEDs illuminated green).

- ▶ Store the battery in accordance with the following conditions:
 - The battery is out of reach of children.
 - The battery is clean and dry.
 - The battery is in an enclosed space.
 - The battery is separate from the lawn mower.
 - If the battery is stored in the charger: disconnect the mains plug and store the battery at a charge state between 40% and 60% (2 LEDs illuminated green).
 - The battery is not stored outside the specified temperature limits,  21.4.

NOTICE

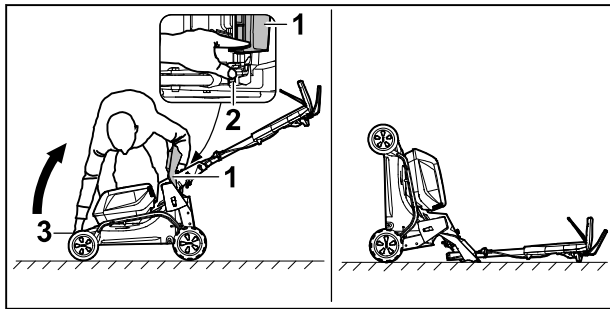
- If the battery is not stored as described in this instruction manual, it may become deeply discharged and irreparably damaged.
 - ▶ Charge a discharged battery before storing it. STIHL recommends storing the battery at a charge state between 40% and 60% (2 LEDs illuminated green).
 - ▶ Store the battery separately from the lawn mower.

17 Cleaning

17.1 Upending the Lawn Mower

- ▶ Switch the lawn mower off and remove the battery.
- ▶ Place the lawn mower on a level surface.
- ▶ Detach the grass catcher box.

- ▶ Set the cutting height to the highest setting,  13.2
- ▶ Move the handlebar to the lowest position,  9.3.



- ▶ Place to the right of the machine.
- ▶ Open discharge flap (1) and hold it open.
- ▶ Press lever (2) downwards with the left hand and hold.
- ▶ Hold the lawn mower at transport handle (3) with the right hand and upend.

The lawn mower is stable and can be cleaned.

17.2 Cleaning the lawn mower

- ▶ switch the lawn mower off and remove the battery.
- ▶ Clean the lawn mower with a damp cloth.
- ▶ Clean the discharge chute with a soft brush or a damp cloth.
- ▶ Remove any foreign bodies from the battery compartment and clean the battery compartment with a damp cloth.
- ▶ Clean the electrical contacts in the battery compartment with a paintbrush or a soft brush.
- ▶ Clean the ventilation slots with a paintbrush.
- ▶ Upend the lawn mower.
- ▶ Clean the area around the blade and the blade with a stick, a soft brush or a damp cloth.

NOTICE

- Using a high-pressure cleaner or a water jet for cleaning can damage the machine.
 - ▶ Do not clean the machine with a high-pressure cleaner or a water jet.

17.3 Cleaning the Battery

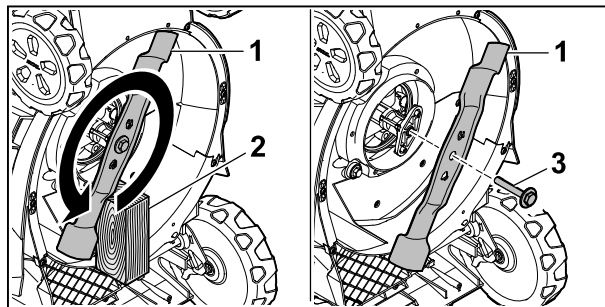
- ▶ Clean the battery with a damp cloth.

18 Maintenance

18.1 Removing and Attaching the Blade

18.1.1 Removing the Blade

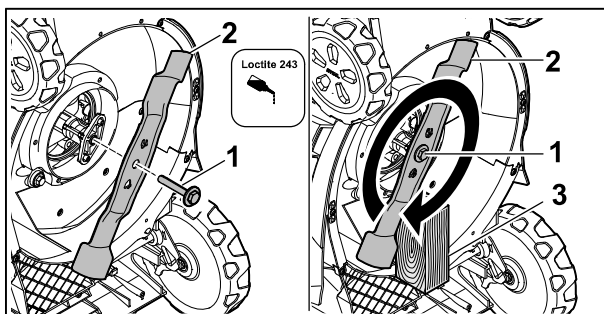
- ▶ Switch the lawn mower off and remove the battery.
- ▶ Upend the lawn mower.



- ▶ Block blade (1) using a piece of wood (2).
- ▶ Unscrew the screw with washer (3) in the direction of the arrow and remove.
- ▶ Remove blade (1).
- ▶ Dispose of the screw with washer (3). Use a new screw with washer to attach blade (1).

18.1.2 Attaching the Blade

- ▶ Switch the lawn mower off and remove the battery.
- ▶ Upend the lawn mower.



- ▶ Apply Loctite 243 threadlocker to the thread of the screw with washer (1).
- ▶ Position blade (2) so that the raised areas on the contact area engage in the notches.
- ▶ Screw in the screw with washer (1).
- ▶ Block blade (2) using a piece of wood (3).
- ▶ Tighten screw with washer (1) to 60 Nm.

18.2 Sharpening and Balancing the Blade

Sharpening and balancing the blade correctly requires a lot of practice.

STIHL recommends having the blade sharpened and balanced by a STIHL specialist dealer.

The current addresses of the specialist dealers can be found under the respective STIHL country representative at www.stihl.com.



WARNING

- The cutting edges of the blade are sharp. This may result in the user cutting themselves.
 - ▶ Wear protective gloves.

- ▶ Switch the lawn mower off and remove the battery.
- ▶ Upend the lawn mower.
- ▶ Remove the blade.
- ▶ Sharpen the blade. Observe the sharpening angle and cool the blade,  21.2. Bluing of the blade during sharpening is not permitted.
- ▶ Attach the blade.
- ▶ If anything is unclear: consult a STIHL specialist dealer.

19 Repairing

19.1 Repairing the Lawn Mower

The user should not repair the lawn mower or blade themselves.

- ▶ If the lawn mower or blade is damaged: do not use the lawn mower or blade and consult a STIHL specialist dealer.
- ▶ If warning signs are illegible or damaged: have the warning signs replaced by a STIHL specialist dealer.

20 Troubleshooting

20.1 Troubleshooting the lawn mower or battery

Error	LEDs on the operating unit	LEDs on the battery	Cause	Remedy
The lawn mower does not reach the usual power.	Overheating indicator lights up yellow.		The temperatures of the electronics or of the motor are too high.	▶ Allow the lawn mower to cool down. ▶ Do not switch on lawn mower too often within a short time. ▶ If working with self-propulsion activated: Deactivate self-propulsion. ▶ If working with self-propulsion disengaged: Move forward at a slower pace. ▶ Increase the cutting height. ▶ Mow shorter grass.
	Overheating indicator lights up red.		The lawn mower is too warm.	▶ The lawn mower switches off automatically. ▶ Allow the lawn mower to cool down.
			The machine uses a STIHL AP 20 battery.	Do not use the STIHL AP 20.
The lawn mower loses power in AUTO-BOOST mode.	AUTO-BOOST mode indicator flashes green.		The batteries are too warm.	▶ The lawn mower automatically switches to Standard mode.
The AUTO-BOOST mode is enabled and cannot be disabled.			The machine uses a STIHL AP 20 battery.	Do not use the STIHL AP 20.
The lawn mower does not start when switched on.	1 LED on the charge state indicator flashes green.	1 LED flashes green.	State of charge of the battery is too low.	Charge the battery.
	1 LED on the charge state indicator lights up red.	1 LED lights up red.	The battery is too warm or too cold.	▶ Remove the battery. ▶ Allow the battery to cool down or warm up.
	The error indicator flashes red.	3 LEDs flash red.	There is an error in the lawn mower.	▶ Remove the battery.

Error	LEDs on the operating unit	LEDs on the battery	Cause	Remedy
				▶ Clean the electrical contacts in battery compartment 1 and battery compartment 2. ▶ Insert the battery. ▶ Switch on the lawn mower. ▶ If 3 LEDs continue to flash red: Do not use the lawn mower and instead consult a STIHL authorized dealer.
	Overheating indicator lights up red.	3 LEDs light up red.	The lawn mower is too warm.	▶ Remove the battery. ▶ Allow the lawn mower to cool down.
	3 LEDs on the charge state indicator light up red.	4 LEDs flash red.	There is an error in the battery.	▶ Remove the battery and reinsert it. ▶ Switch on the lawn mower. ▶ If 4 LEDs continue to flash red: Do not use the battery and instead contact a STIHL authorized dealer.
			There is a break in the electrical connection between the lawn mower and the battery.	▶ Remove the battery. ▶ Clean the electrical contacts in battery compartment 1 and battery compartment 2. ▶ Insert the battery.
	All LEDs on the operating unit are flashing.		Communication with the operating unit has been interrupted.	▶ Remove the battery. ▶ Do not use your mower and instead contact your STIHL authorized dealer for assistance.
			The lawn mower or the battery is damp.	▶ Remove the battery. ▶ Clean the lawn mower. ▶ Allow the lawn mower or battery to dry,  21.5.
			The resistance on the blades is too high.	▶ If working with self-propulsion activated: Deactivate self-propulsion. ▶ If working with self-propulsion disengaged: Move forward at a slower pace. ▶ Increase the cutting height. ▶ Switch on the lawn mower in shorter grass.
			The area around the cutting blade is blocked.	Clean the lawn mower.
Self-propulsion is not working.			Self-propulsion is disengaged.	Set the travel speed.
Self-propulsion is only partly operational.			The machine uses a STIHL AP 20 battery.	Do not use the STIHL AP 20.
			There is an error in the self-propulsion mechanism.	▶ Remove the battery and reinsert it. ▶ Activate self-propulsion.

Error	LEDs on the operating unit	LEDs on the battery	Cause	Remedy
				▶ If the self-propulsion fault persists: Consult a STIHL authorized dealer.
The lawn mower switches off while in operation.	The error indicator flashes red.	3 LEDs light up red.	The lawn mower is too warm.	▶ Remove the battery. ▶ Allow the lawn mower to cool down. ▶ Clean the lawn mower.
			The cutting blade is jammed.	▶ Remove the battery. ▶ Clean the lawn mower.
			There is an electrical error.	▶ Remove the battery and reinsert it. ▶ Switch on the lawn mower.
	The error indicator flashes red.		The self-propulsion and blade disengage in the event of overload when working on steep slopes.	▶ Do not mow steep slopes. ▶ Release the control bar for self-propulsion. ▶ Place the lawn mower on a level surface. ▶ Switch on the blade. ▶ Activate self-propulsion.
The lawn mower vibrates excessively during operation.			The screw on the blade is loose.	Securely tighten the screw.
			The cutting blade is not correctly balanced.	Sharpen and balance the cutting blade.
The lawn mower run-time is too short.			The battery is not fully charged.	Charge the battery.
			The battery service life has been exceeded.	Replace battery.
			The area around the cutting blade is blocked.	Clean the lawn mower.
			The blade is blunt or worn.	Sharpen and balance the cutting blade.
			The resistance on the blade is too high.	▶ If working with self-propulsion activated: Deactivate self-propulsion. ▶ If working with self-propulsion disengaged: Move forward at a slower pace. ▶ Increase the cutting height. ▶ Mow shorter grass.
The battery jams when inserted in the battery compartment.			The guides or electrical contacts in the battery compartment are dirty.	Clean the lawn mower.
Charging does not start when the battery is inserted.		1 LED lights up red.	The battery is too warm or too cold.	▶ Remove the battery. ▶ Allow the battery to cool down or warm up.

Error	LEDs on the operating unit	LEDs on the battery	Cause	Remedy
ted into the charger.				
The grass has not been cut cleanly or the lawn is yellow.			The blade is blunt or worn.	▶ Sharpen and balance the cutting blade.
			The resistance on the blade is too high.	▶ If working with self-propulsion activated: Deactivate self-propulsion. ▶ If working with self-propulsion disengaged: Move forward at a slower pace. ▶ Increase the cutting height. ▶ Mow shorter grass.
The STIHL connected app is unable to find the battery with  .			The Bluetooth® radio interface on the battery or mobile device is deactivated.	▶ Activate the Bluetooth® radio interface on the battery or mobile device.
			Excessive distance between the battery and the mobile device.	▶ Reduce the distance,  21.1. ▶ If the STIHL connected app is still unable to find the battery: Contact a STIHL authorized dealer.

20.2 Product Support and Assistance on Use

Product support and assistance on use are available from STIHL servicing dealers.

For contacts and other information, please visit <https://support.stihl.com> or www.stihl.com.

21 Specifications

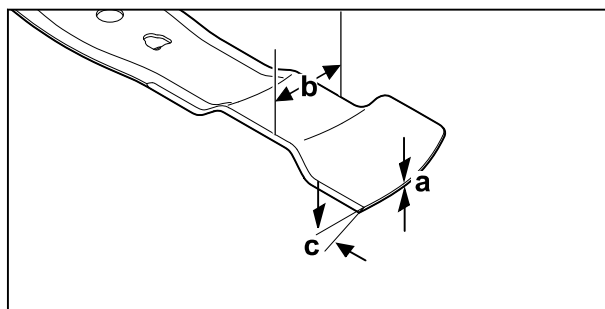
21.1 STIHL RMA 443.3 PV, RMA 448.3 PV, RMA 453.3 PV Lawn Mower

- Approved battery: STIHL AP
- Weight with grass catcher box and without battery:
 - RMA 443.3 PV: 27 kg
 - RMA 448.3 PV: 28 kg
 - RMA 453.3 PV: 29 kg
- Weight (m) with grass catcher box and STIHL AP 300 S batteries:
 - RMA 443.3 PV: 31 kg
 - RMA 448.3 PV: 32 kg
 - RMA 453.3 PV: 33 kg
- Max. grass box capacity:
 - RMA 443.3 PV, RMA 448.3 PV: 52 l
 - RMA 453.3 PV: 55 l
- Cutting width:
 - RMA 443.3 PV: 41 cm

- RMA 448.3 PV: 46 cm
- RMA 453.3 PV: 51 cm
- Speed (n):
 - RMA 443.3 PV, RMA 448.3 PV: 3000/min
 - RMA 453.3 PV: 2700/min
- Speed in ECO mode:
 - RMA 443.3 PV, RMA 448.3 PV: 2700/min
 - RMA 453.3 PV: 2400/min
- Degree of electrical protection: IPX4
- Minimum travel speed: 2,0 km/h
- Maximum travel speed (depending on the battery used)
 - with AP 100: 2.5 km/h
 - with AP 200, AP 20: 3.5 km/h
 - with AP 30, AP 200 S, AP 300, AP 300 S, AP 500 S: 4.5 km/h

For runtime, see www.stihl.com/battery-life.

21.2 Blade



- Minimum thickness a: 1.6 mm

- Minimum width b: 55 mm
- Sharpening angle c: 30°

21.3 STIHL AP Battery

- Battery technology: Lithium-ion
- Voltage: 36 V
- Capacity in Ah: see rating label
- Energy content in Wh: see rating label
- Weight in kg: See rating label
- Bluetooth® radio interface (only for batteries with 

The power output of the battery may vary depending on the battery product used.

21.4 Temperature Limits



WARNING

- The battery is not protected against all ambient conditions. If exposed to certain ambient conditions, the battery may catch fire or explode. This may result in serious injury to people and damage to property.
 - ▶ Do not charge or use the battery below -20 °C or above +50 °C.
 - ▶ Do not store the battery below -20 °C or above +70 °C.
 - ▶ Do not use the lawn mower below 0 °C or above + 50 °C.
 - ▶ Do not store the lawn mower below - 20 °C or above + 70 °C.

21.5 Recommended Temperature Ranges

For optimum performance of the lawn mower and batteries, observe the following temperature ranges:

- Lawn mower:

- Usage: 0 °C to +40 °C
- Storage: -20 °C to +50 °C
- Battery:
 - Charging: +5 °C to +40 °C
 - Use: -10 °C to +40 °C
 - Storage: -20 °C to +50 °C

If the battery is charged, used or stored outside the recommended temperature ranges, performance may be reduced.

If the battery is wet or damp, allow it to dry for at least 48 hours at above +15 °C and below +50 °C and at less than 70% humidity. Higher humidity may increase the drying time.

21.6 Sound Values and Vibration Values

RMA 443.3 PV

- Sound pressure level L_{pA} measured according to EN IEC 62841-4-3: 75 dB(A)
- Uncertainty K_{pA} : 2 dB(A)
- Guaranteed sound power level L_{WAAd} measured in accordance with 2000/14/EC: 90 dB(A)

Specified vibration characteristic in accordance with EN 12096:

- Vibration value a_h measured in accordance with EN IEC 62841-4-3, handlebar: 1.40 m/s²
- Uncertainty K_h : 0.70 m/s²

RMA 448.3 PV

- Sound pressure level L_{pA} measured according to EN IEC 62841-4-3: 79 dB(A)
- Uncertainty K_{pA} : 2 dB(A)
- Guaranteed sound power level L_{WAAd} measured in accordance with 2000/14/EC: 94 dB(A)

Specified vibration characteristic in accordance with EN 12096:

- Vibration value a_h measured in accordance with EN IEC 62841-4-3, handlebar: 1.80 m/s²
- Uncertainty K_h : 0.90 m/s²

RMA 453.3 PV

- Sound pressure level L_{pA} measured according to EN IEC 62841-4-3: 79 dB(A)
- Uncertainty K_{pA} : 2 dB(A)
- Guaranteed sound power level L_{WAAd} measured in accordance with 2000/14/EC: 94 dB(A)

Specified vibration characteristic in accordance with EN 12096:

- Vibration value a_h measured in accordance with EN IEC 62841-4-3, handlebar: 1.80 m/s²
- Uncertainty K_h : 0.90 m/s²

The specified sound and vibration values were measured according to a standardised test procedure and can be used to compare electrical appliances. The actual sound and vibration values that occur may deviate from the indicated values, depending on the type of application. The specified sound and vibration values can be used for an initial assessment of the sound and vibration exposure. The actual sound and vibration load must be assessed. Times during which the electrical appliance is switched off, along with times during which it is switched on but running without load, can also be taken into consideration.

For information on compliance with Employers' Vibration Directive 2002/44/EC, see www.stihl.com/vib.

21.7 REACH

REACH is an EC regulation and stands for the Registration, Evaluation, Authorisation and Restriction of Chemical substances.

For information on compliance with the REACH regulation see www.stihl.com/reach.

22 Spare Parts and Accessories

22.1 Spare parts and accessories



These symbols indicate original STIHL spare parts and original STIHL accessories.

STIHL recommends the use of original STIHL spare parts and accessories.

Despite ongoing market observation, STIHL is unable to judge the reliability, safety and suitability of other manufacturers' spare parts and accessories; accordingly, STIHL cannot warrant for the use of those parts.

Original STIHL spare parts and original STIHL accessories are available from STIHL dealers.

22.2 Essential Spare Parts

- Blade:
 - RMA 443.3 PV : WA40 702 0105
 - RMA 448.3 PV : WA41 702 0105
 - RMA 453.3 PV : WA42 702 0100
- Blade fastening screw with washer: 0000 951 3505

23 Disposal

23.1 Disposing of Mower and Battery

Information on disposal is available from your local authority or from a STIHL dealer.

Improper disposal may be harmful to health and pollute the environment.

- ▶ Take STIHL products including packaging to a suitable collection point for recycling in accordance with local regulations.
- ▶ Do not dispose of the product with domestic waste.

24 EC Declaration of Conformity

24.1 Lawn Mower STIHL RMA 443.3 PV, RMA 448.3 PV, RMA 453.3 PV

STIHL Tirol GmbH
Hans Peter Stihl-Strasse 5
6336 Langkampfen

Austria

declares under our sole responsibility that

- design: cordless lawn mower
- manufacturer's brand: STIHL
- type: RMA 443.3 PV, RMA 448.3 PV, RMA 453.3 PV
- cutting width:
 - RMA 443.3 PV: 41 cm
 - RMA 448.3 PV: 46 cm
 - RMA 453.3 PV: 51 cm
- serial number:
 - RMA 443.3 PV: WA40
 - RMA 448.3 PV: WA41
 - RMA 453.3 PV: WA42

complies with the relevant provisions of Directives 2000/14/EC, 2006/42/EC, 2014/30/EU and 2011/65/EU and has been developed and manufactured in accordance with the versions of the following standards valid on the date of manufacture: EN 62841-1, EN IEC 62841-4-3, EN 55014-1 and EN 55014-2.

Notified body involved:
TÜV Rheinland LGA Products GmbH
Tillystrasse 2
90431 Nuremberg, Germany

The measured and guaranteed sound power levels were determined in accordance with Directive 2000/14/EC, Appendix VIII.

- Measured sound power level:
 - RMA 443.3 PV: 88.2 dB(A)
 - RMA 448.3 PV: 92.4 dB(A)
 - RMA 453.3 PV: 92.4 dB(A)
- Guaranteed sound power level:
 - RMA 443.3 PV: 90 dB(A)
 - RMA 448.3 PV: 94 dB(A)
 - RMA 453.3 PV: 94 dB(A)

The technical documents are stored at STIHL Tirol GmbH.

The year of manufacture and machine number are indicated on the lawn mower.

Langkampfen, 27.11.2023

STIHL Tirol GmbH

p.p. 

Matthias Fleischer, Head of Product Development

p.p. 

Sven Zimmermann, Head of Quality Department

25 UKCA Declaration of Conformity

25.1 Lawn Mower STIHL RMA 443.3 PV, RMA 448.3 PV, RMA 453.3 PV

STIHL Tirol GmbH
Hans Peter Stihl-Strasse 5
6336 Langkampfen

Austria

declares under our sole responsibility that

- design: cordless lawn mower
- manufacturer's brand: STIHL
- type: RMA 443.3 PV, RMA 448.3 PV, RMA 453.3 PV
- cutting width:
 - RMA 443.3 PV: 41 cm
 - RMA 448.3 PV: 46 cm
 - RMA 453.3 PV: 51 cm
- serial number:
 - RMA 443.3 PV: WA40
 - RMA 448.3 PV: WA41

– RMA 453.3 PV: WA42

complies with the relevant provisions of the UK regulations Noise Emission in the Environment by Equipment for use Outdoors Regulations 2001, Supply of Machinery (Safety) Regulations 2008, Electromagnetic Compatibility Regulations 2016 and The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 and has been developed and manufactured in accordance with the versions of the following standards valid on the date of manufacture: EN 62841-1, EN IEC 62841-4-3, EN 55014-1 and EN 55014-2.

Notified body involved:

TUV Rheinland UK Ltd
1011 Stratford Road
Solihull, B90 4BN

The measured and guaranteed sound power levels were determined in accordance with the UK regulation Noise Emission in the Environment by Equipment for use Outdoors Regulations 2001, Schedule 11.

- Measured sound power level
 - RMA 443.3 PV: 88.2 dB(A)
 - RMA 448.3 PV: 92.4 dB(A)
 - RMA 453.3 PV: 92.4 dB(A)
- Guaranteed sound power level
 - RMA 443.3 PV: 90 dB(A)
 - RMA 448.3 PV: 94 dB(A)
 - RMA 453.3 PV: 94 dB(A)

The technical documents are stored at STIHL Tirol GmbH.

The year of manufacture and machine number are indicated on the lawn mower.

Langkampfen, 27.11.2023

STIHL Tirol GmbH

p.p. 

Matthias Fleischer, Head of Product Development

p.p. 

Sven Zimmermann, Head of Quality Department

26 Addresses

www.stihl.com

27 General and Product-Specific Safety Instructions

27.1 Introduction

This section reproduces the general and product-specific safety instructions prescribed and pre-formulated in the product standard.

The safety information for avoiding electric shock given under "Electrical Safety" is not applicable to STIHL battery products, with the exception of point c).



WARNING

- **Read all safety warnings, instructions, illustrations and specifications provided with this lawn mower.** Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury. **Save all warnings and instructions for future reference.**

27.2 Work Area Safety

- a) **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- b) **Do not operate lawn mowers in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Lawn mowers create sparks which may ignite the dust or fumes.
- c) **Keep children and bystanders away while operating a lawn mower.** Distractions can cause you to lose control.

27.3 Electrical Safety

- a) **Lawn mower plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) lawn mowers.** Unmodified plugs and matching outlets will reduce risk of electric shock.
- b) **Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
- c) **Do not operate the lawn mower when it is raining or in wet conditions.** This may increase the risk of electric shock.
- d) **Do not abuse the electric cable. Never use the electric cable for carrying, pulling or unplugging the lawn mower. Keep the electric cable away from heat, oil, sharp edges or**

moving parts. Damaged or entangled electric cables increase the risk of electric shock.

- e) **When operating a lawn mower outdoors, use an extension cable suitable for outdoor use.** Use of a cable suitable for outdoor use reduces the risk of electric shock.
- f) **If operating a lawn mower in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.

27.4 Personal Safety

- a) **Stay alert, watch what you are doing and use common sense when operating a lawn mower. Do not use a lawn mower while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating lawn mowers may result in serious personal injury.
- b) **Use personal protective equipment. Always wear eye protection.** Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.
- c) **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the lawn mower.** Carrying lawn mowers with your finger on the switch or energising lawn mowers that have the switch on invites accidents.
- d) **Remove any adjusting key or wrench before turning the lawn mower on.** A wrench or a key left attached to a rotating part of the lawn mower may result in personal injury.
- e) **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the lawn mower in unexpected situations.
- f) **Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.
- g) **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of dust collection can reduce dust-related hazards.
- h) **Do not let familiarity gained from frequent use of lawn mowers allow you to become complacent and ignore lawn mower safety**

principles. A careless action can cause severe injury within a fraction of a second.

27.5 Lawn Mower Use and Care

- a) **Do not force the lawn mower. Use the correct lawn mower for your application.** The correct lawn mower will do the job better and safer at the rate for which it was designed.
- b) **Do not use the lawn mower if the switch does not turn it on and off.** Any lawn mower that cannot be controlled with the switch is dangerous and must be repaired.
- c) **Disconnect the plug from the power source and/or remove the battery pack, if detachable, from the lawn mower before making any adjustments, changing accessories or storing lawn mowers.** Such preventive safety measures reduce the risk of starting the lawn mower accidentally.
- d) **Store idle lawn mowers out of the reach of children and do not allow persons unfamiliar with the lawn mower or these instructions to operate the lawn mower.** Lawn mowers are dangerous in the hands of untrained users.
- e) **Maintain lawn mowers and accessories.** Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the lawn mower's operation. If damaged, have the lawn mower repaired before use. Many accidents are caused by poorly maintained lawn mowers.
- f) **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- g) **Use the lawn mower, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the lawn mower for operations different from those intended could result in a hazardous situation.
- h) **Keep handles and grasping surfaces dry, clean and free from oil and grease.** Slippery handles and grasping surfaces do not allow for safe handling and control of the lawn mower in unexpected situations.

27.6 Battery Lawn Mower Use and Care

- a) **Recharge only with the charger specified by the manufacturer.** A charger that is suitable

for one type of battery pack may create a risk of fire when used with another battery pack.

- b) **Use lawn mowers only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
- c) **When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another.** Shorting the battery terminals together may cause burns or a fire.
- d) **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help.** Liquid ejected from the battery may cause irritation or burns.
- e) **Do not use a battery pack or lawn mower that is damaged or modified.** Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.
- f) **Do not expose a battery pack or lawn mower to fire or excessive temperature.** Exposure to fire or temperature above 130 °C may cause explosion.
- g) **Follow all charging instructions and do not charge the battery pack or lawn mower outside the temperature range specified in the instructions.** Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

27.7 Service

- a) **Have your lawn mower serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the lawn mower is maintained.
- b) **Never service damaged battery packs.** Service of battery packs should only be performed by the manufacturer or authorised service providers.

27.8 Safety Instructions for Battery Lawn Mowers

- a) **Do not use the lawn mower in bad weather conditions, especially when there is a risk of lightning.** This decreases the risk of being struck by lightning.

- b) **Thoroughly inspect the area for wildlife where the lawn mower is to be used.** Wildlife may be injured by the lawn mower during operation.
- c) **Thoroughly inspect the area where the lawn mower is to be used and remove all stones, sticks, wires, bones, and other foreign objects.** Thrown objects can cause personal injury.
- d) **Before using the lawn mower, always visually inspect to see that the blade and the blade assembly are not worn or damaged.** Worn or damaged parts increase the risk of injury.
- e) **Check the grass catcher frequently for wear or deterioration.** A worn or damaged grass catcher may increase the risk of personal injury.
- f) **Keep guards in place. Guards must be in working order and be properly mounted.** A guard that is loose, damaged, or is not functioning correctly may result in personal injury.
- g) **Keep all cooling air inlets clear of debris.** Blocked air inlets and debris may result in overheating or risk of fire.
- h) **While operating the lawn mower, always wear non-slip and protective footwear. Do not operate the lawn mower when barefoot or wearing open sandals.** This reduces the chance of injury to the feet from contact with the moving blade.
- i) **While operating the lawn mower, always wear long trousers.** Exposed skin increases the likelihood of injury from thrown objects.
- j) **Do not operate the lawn mower in wet grass. Walk, never run.** This reduces the risk of slipping and falling which may result in personal injury.
- k) **Do not operate the lawn mower on excessively steep slopes.** This reduces the risk of loss of control, slipping and falling which may result in personal injury.
- l) **When working on slopes, always be sure of your footing, always work across the face of slopes, never up or down and exercise extreme caution when changing direction.** This reduces the risk of loss of control, slipping and falling which may result in personal injury.
- m) **Use extreme caution when reversing or pulling the lawn mower towards you. Always be**

aware of your surroundings. This reduces the risk of tripping during operation.

- n) **Do not touch blades and other hazardous moving parts while they are still in motion.** This reduces the risk of injury from moving parts.
- o) **When clearing jammed material or cleaning the lawn mower, make sure all power switches are off and the battery pack is disconnected.** Unexpected operation of the lawn mower may result in serious personal injury.

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1 Prólogo

Distinguidos clientes,

Nos alegramos de que se hayan decidido por STIHL. Desarrollamos y confeccionamos nuestros productos en primera calidad y con arreglo a las necesidades de nuestros clientes. De esta manera conseguimos elaborar produc-