

AL 1, 5, 5-2

STIHL



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Falls die Nennspannung auf dem Leistungsschild 100 V bis 127 V ist:

- Leitungslänge bis 10 m: AWG 14 / 2,0 mm²
- Leitungslänge 10 m bis 30 m: AWG 12 / 3,5 mm²

12.3 Temperaturgrenzen



WARNUNG

- Der Akku ist nicht gegen alle Umgebungseinflüsse geschützt. Falls der Akku bestimmten Umgebungseinflüssen ausgesetzt ist, kann der Akku in Brand geraten oder explodieren. Personen können schwer verletzt werden und Sachschaden kann entstehen.
 - ▶ Akku nicht unterhalb von - 20 °C oder oberhalb von + 50 °C laden.
 - ▶ Akku oder Ladegerät nicht unterhalb von - 20 °C oder oberhalb von + 70 °C aufbewahren.

12.4 Empfohlene Temperaturbereiche

Für eine optimale Leistungsfähigkeit des Akkus und Ladegeräts die folgenden Temperaturbereiche beachten:

- Laden: + 5 °C bis + 40 °C
- Aufbewahrung: - 20 °C bis + 50 °C

Falls der Akku außerhalb der empfohlenen Temperaturbereiche geladen oder aufbewahrt wird, kann die Leistungsfähigkeit reduziert sein.

Falls der Akku nass oder feucht ist, den Akku mindestens 48 h bei über + 15 °C und unter + 50 °C, sowie bei unter 70 % Luftfeuchtigkeit trocknen lassen. Eine höhere Luftfeuchtigkeit kann die Trocknungszeit verlängern.

12.5 REACH

REACH bezeichnet eine EG-Verordnung zur Registrierung, Bewertung und Zulassung von Chemikalien.

Informationen zur Erfüllung der REACH Verordnung sind unter www.stihl.com/reach angegeben.

13 Ersatzteile und Zubehör

13.1 Ersatzteile und Zubehör

STIHL  Diese Symbole kennzeichnen original STIHL Ersatzteile und original STIHL Zubehör.

STIHL empfiehlt, original STIHL Ersatzteile und original STIHL Zubehör zu verwenden.

Ersatzteile und Zubehör anderer Hersteller können durch STIHL hinsichtlich Zuverlässigkeit, Sicherheit und Eignung trotz laufender Marktbeobachtung nicht beurteilt werden und STIHL kann für deren Einsatz auch nicht einstehen.

Original STIHL Ersatzteile und original STIHL Zubehör sind bei einem STIHL Fachhändler erhältlich.

14 Entsorgen

14.1 Ladegerät entsorgen

Informationen zur Entsorgung sind bei der örtlichen Verwaltung oder bei einem STIHL Fachhändler erhältlich.

Eine unsachgemäße Entsorgung kann die Gesundheit schädigen und die Umwelt belasten.

- ▶ STIHL Produkte einschließlich Verpackung gemäß den örtlichen Vorschriften einer geeigneten Sammelstelle für Wiederverwertung zuführen.
- ▶ Nicht mit dem Hausmüll entsorgen.

15 Anschriften

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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 Documentation

Local safety regulations apply.

- ▶ Read, understand and save the following documents in addition to this instruction manual:
 - Safety notes and precautions for STIHL AS battery

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

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.

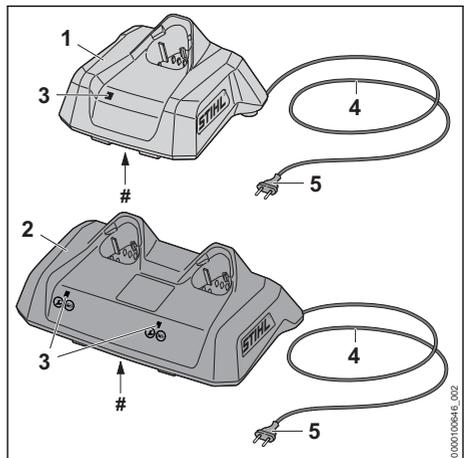
2.3 Symbols in Text



This symbol refers to a chapter in this instruction manual.

3 Overview

3.1 Chargers



- AL 1 or AL 5 Charger**
The charger recharges STIHL AS batteries.
- AL 5-2 charger**
The charger recharges STIHL AS batteries.

3 LED

The LED indicates the status of the charger.

4 Connecting cable

The connecting cable connects the charger to the mains plug.

5 Mains plug

The mains plug connects the connecting cable to a wall socket.

Rating plate with machine number**3.2 Symbols**

Meanings of symbols that may be on the charger:



Operate the electric product in a dry place, indoors only.



Do not dispose of the product with your household waste.



Read, understand and save the instruction manual.

4 Safety Precautions**4.1 Warning Signs**

Meanings of warning signs on the charger:



Observe safety notices and take the necessary precautions.



Read, understand and save the instruction manual.



Protect charger from rain and dampness.

4.2 Intended Use

The STIHL AL 1, AL 5 and AL 5-2 chargers recharge the STIHL AS batteries. The AL 5-2 charger can recharge two batteries at once.

▲ WARNING

- Batteries and chargers not explicitly approved by STIHL may cause a fire or explosion. Persons may be seriously or fatally injured, and property may be damaged.
 - ▶ Use a STIHL AL 1, AL 5 or AL 5-2 charger to recharge STIHL AS batteries.
- Using the charger for purposes for which it is not designed may result in serious or fatal injuries and damage to property.

- ▶ Use the charger as described in this User Manual.

4.3 Requirements for the user**▲ WARNING**

- Users without adequate training or instruction cannot recognize or assess the risks involved in using the charger. The user or other persons may sustain serious or fatal injuries.
 - ▶ Read and understand the user manual and keep it in a safe place for reference.



- ▶ If the charger is passed on to another person: Always give them the user manual.
- ▶ Make sure that the user meets the following conditions:
 - The user is rested.
 - The user must be in good physical condition and mental health to operate the charger. If the user is able to operate the equipment but is physically, hearing, visually or mentally impaired, the user may only work with the equipment under the supervision of or after receiving instruction from a responsible person.
 - The user is able to recognize and assess the risks involved in using the charger.
 - The user is an adult or is being trained in an occupation under supervision according to national regulations.
 - The user has received instruction from a STIHL servicing dealer or other experienced user before using the charger for the first time.
 - The user is not under the influence of alcohol, medication or drugs.
- ▶ If you are unsure: Consult a STIHL authorized dealer.

4.4 Working Area and Surroundings**▲ WARNING**

- Bystanders, children and animals are not aware of and cannot assess the dangers of a charger or electric current. Bystanders, children and animals may be seriously or fatally injured.
 - ▶ Keep bystanders, children and animals away from the work area.
 - ▶ Make sure that children cannot play with the charger.

- The charger is not waterproof. If you work in rain or in a damp environment, an electric shock may occur. The user may be injured and the charger may be damaged.



- ▶ Do not operate it in the rain or in a damp environment.

- The charger is not protected against all ambient conditions. If the charger is exposed to certain ambient conditions, it may catch fire or explode. This may result in serious injury to people and damage to property.
 - ▶ Operate the charger in a dry place, indoors only
 - ▶ Do not operate the charger in a flammable environment or in an explosive environment.
 - ▶ Do not operate the charger on a readily combustible surface.
 - ▶ Do not use and store the charger outside of the specified temperature limits,  12.3.
- People can trip over the connecting cable. People may be injured and the charger may be damaged.
 - ▶ Lay the connecting cable flat on the floor.

4.5 Safe Condition

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

- Charger is undamaged.
- Charger is clean and dry.

WARNING

- If components do not comply with safety requirements, they will no longer function properly and safety devices may be rendered inoperative. This can result in serious or fatal injuries.
 - ▶ Do not use a damaged charger.
 - ▶ If the charger is dirty or wet: Clean the charger and allow it to dry.
 - ▶ Never attempt to modify the charger.
 - ▶ Never insert objects in the charger's openings.
 - ▶ Never bridge the charger's contacts with metallic objects (short circuit).
 - ▶ Do not open the charger.
 - ▶ Replace worn or damaged labels.
 - ▶ If you have any queries: Contact a STIHL servicing dealer for assistance.

4.6 Charging

WARNING

- A damaged or defective charger may produce an unusual smell or emit smoke during the charging process. This may result in personal injuries and damage to property.
 - ▶ Disconnect the plug from the wall outlet.
- The charger can overheat and cause a fire if heat dissipation is inadequate. This can result in serious or fatal injuries and damage to property.
 - ▶ Do not cover the charger.

4.7 Connecting to the power supply

Contact with live components may occur for the following reasons:

- The connecting cable or the extension cord is damaged.
- The mains plug of the connecting cable or extension cord is damaged.
- The socket is not properly installed.

DANGER

- Contact with live parts may result in electric shock. This may result in serious or fatal injury to the user.
 - ▶ Make sure that the connecting cable, extension cord and their mains plugs are undamaged.



If the connecting cable or the extension cord is damaged:

- ▶ Do not touch the damaged area.
- ▶ Disconnect the mains plug from the power supply.
- ▶ Make sure your hands are dry before touching the connecting cable, extension cord or mains plugs.
- ▶ Plug the mains plug of the connecting cable or extension cord into a properly installed, shockproof socket with the correct fuse rating.
- ▶ Install the charger with a ground fault circuit interrupter (30 mA, 30 ms).
- A damaged or unsuitable extension cable can result in electric shock. There is a risk of serious or fatal injury.
 - ▶ Use an extension cable with the correct cable cross-section,  12.2.

WARNING

- Overvoltage can occur in the charger if the line voltage or frequency are incorrect during charging. The charger may be damaged.

- ▶ Make sure that the mains voltage and the mains frequency of the power supply match the data on the rating plate of the charger.
- If the charger is connected to a power strip, electrical components may be overloaded during the charging process. The components may overheat and cause a fire. Persons may be seriously or fatally injured, and property may be damaged.
 - ▶ Ensure that the technical specifications for the power strip are not exceeded by the information on the rating plate of the charger and of all electrical devices connected to the power strip.
- An incorrectly routed connecting cable or extension cord may be damaged, and people may trip over it. People may be injured, and the connecting cable or extension cord may be damaged.
 - ▶ Route and mark the connecting cable and extension cord so that people will not trip over them.
 - ▶ Route the connecting cable and extension cord so that they are not under tension or tangled.
 - ▶ Route the connecting cable and extension cord so that they will not be damaged, kinked or crushed and will not be chafed.
 - ▶ Protect the connecting cable and extension cord from heat, oil and chemicals.
 - ▶ Lay the connecting cable and extension cord on a dry surface.
- The extension cable warms up in operation. If that heat cannot escape, it may cause a fire.
 - ▶ If using a cable reel: completely unroll the cable reel.
- If wiring and pipes are laid in the wall, they may be damaged if the charger is mounted on the wall. Contact with wiring can result in electric shock. This may result in serious injury to people and damage to property.
 - ▶ Make sure there is no wiring or pipes in the wall at the proposed mounting site.
- If the charger is not mounted on the wall as described in this User Manual, the charger or the battery may fall or the charger may overheat. This may result in injury to people and damage to property.
 - ▶ Mount the charger on a wall as described in this User Manual.
- If the charger is mounted on a wall with the battery inserted, the battery may fall out of the charger. This may result in injury to people and damage to property.
 - ▶ Mount the charger on the wall first before inserting the battery.

4.8 Transporting

⚠ WARNING

- The charger can turn over or move while being transported. This may result in personal injuries and damage to property.
 - ▶ Disconnect the plug from the wall outlet.
 - ▶ Remove the battery.
 - ▶ Secure the charger with lashing straps, belts or a net to prevent it turning over and moving.
- The connecting cable must not be used for carrying the charger. The connecting cable and the charger may be damaged.
 - ▶ Wind up the connecting cable and attach it to the charger.

4.9 Storage

⚠ WARNING

- Children are not aware of and cannot assess the dangers of a charger. Children can be seriously injured or killed.
 - ▶ Disconnect the plug from the wall outlet.
 - ▶ Store the charger out of reach of children.
- The charger is not protected against all ambient conditions. If the charger is exposed to certain ambient conditions, the charger may be damaged.
 - ▶ Disconnect the plug from the wall outlet.
 - ▶ If the charger is hot: Allow the charger to cool down.
 - ▶ Store the charger in a clean, dry place.
 - ▶ Store the charger in an enclosed room.
 - ▶ Do not store the charger outside of the specified temperature limits,  12.3.
- The connecting cable should not be used for carrying the charger or hanging up the charger. The connecting cable and the charger may be damaged.
 - ▶ Hold the charger by the housing in a secure grip.
 - ▶ Hang the charger on the wall mounting.

4.10 Cleaning, Maintenance and Repair

⚠ WARNING

- Harsh detergents, cleaning with a water jet or sharp objects can damage the charger. If the charger is not cleaned correctly, components may no longer function properly or safety devices may be rendered inoperative. This can result in serious injury.

- ▶ Clean the charger as described in this User Manual.
- If the charger is not serviced or repaired correctly, components may no longer function properly or safety devices may be rendered inoperative. There is a risk of serious or fatal injury.
 - ▶ Do not attempt to service or repair the charger.
- If the connecting cable is faulty or damaged:
 - ▶ Have the connecting cable replaced by a STIHL authorized dealer.

5 Preparing Charger for Use

5.1 Preparing Charger for Use

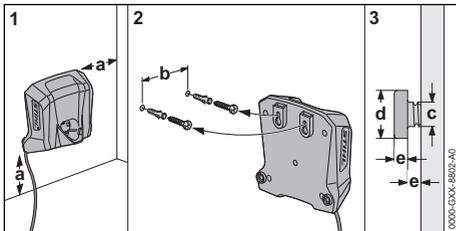
Perform the following steps before starting work:

- ▶ Make sure the charger is in a safe condition,  4.5.
- ▶ Clean the charger,  9.1.
- ▶ If you cannot carry out this work: Do not use the charger and contact your STIHL servicing dealer.

6 Charging the Battery, LEDs

6.1 Mounting the charger on a wall

The charger can be mounted on a wall.



- ▶ Check the following points when mounting the charger on a wall:
 - Suitable fixing materials.
 - The charger is level.
 The following dimensions are observed:
 - a = at least 100 mm
 - b (for AL 1 and AL 5) = 54 mm
 - b (for AL 5-2) = 100 mm
 - c = 4.5 mm
 - d = 9 mm
 - e = 2.5 mm

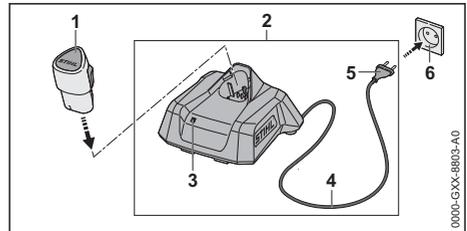
6.2 Charging the battery

The charging time depends on various factors, e.g. the battery temperature or the ambient temperature. For optimum performance, note the recommended temperature ranges,  12.4. The

actual charging time may vary from the charging time indicated. The charging time is indicated at www.stihl.com/charging-times.

The charging process starts automatically when the mains plug is plugged into a socket and the battery is inserted into the charger. The charger switches off automatically when the battery is fully charged.

The battery and the charger warm up during charging.



- ▶ Insert the mains plug (5) in a convenient wall outlet (6).
The charger (2) runs a self test. The LED (3) glows green for about 1 second and then red for about 1 second.
- ▶ Fit the connecting cable (4).
- ▶ Insert the battery (1) in the guides in the charger (2) and press it home as far as stop. The LED (3) glows or flashes green. The battery (2) is being charged.
- ▶ When the LED (3) stops glowing: The battery (1) is fully charged and can be taken out of the charger (2).
- ▶ If the charger (2) is no longer required. Disconnect the mains plug (5) from the wall outlet (6).

6.3 LED on Charger

The LED indicates the operating status of the charger or faults. The LED can glow or flash green or red.

If the LED glows or flashes green, the battery is being charged.

- ▶ If the LED glows or flashes red: Troubleshooting,  11.1.
There is a malfunction in charger or battery.

7 Transporting

7.1 Transporting the Charger

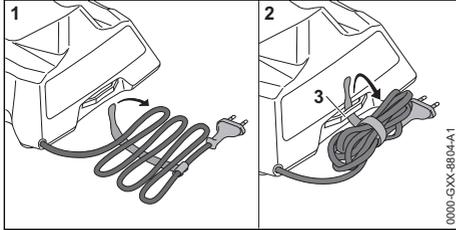
- ▶ Disconnect the plug from the wall outlet.
- ▶ Remove the battery.
- ▶ Wind up the connecting cable and attach it to the charger.

- ▶ Transporting the charger in a vehicle: Secure the charger with lashing straps, belts or a net to prevent it turning over and moving.

8 Storing

8.1 Storing the Charger

- ▶ Disconnect the mains plug from the power supply.



- ▶ Wind up the connecting cable and attach it to the charger.
- ▶ Observe the following points when storing the charger:
 - Charger is out of the reach of children.
 - The charger is clean and dry.
 - Charger is in an enclosed space.
 - The charger is not suspended from the connecting cable or the holder (3) for the connecting cable.

11 Troubleshooting

11.1 Troubleshooting the Charger

Fault	LED on Charger	Cause	Remedy
Battery not being charged.	One LED glows red.	The battery is too warm or too cold.	<ul style="list-style-type: none"> ▶ Leave battery inserted in charger. Charging starts automatically as soon as the permitted temperature range is reached.
	The LED flashes red.	No electrical contact between charger and battery.	<ul style="list-style-type: none"> ▶ Remove the battery. ▶ Clean contacts on charger. ▶ Insert battery.
		There is a malfunction in the charger.	<ul style="list-style-type: none"> ▶ Do not use the charger and contact your STIHL dealer for assistance.
		There is a fault in the battery.	<ul style="list-style-type: none"> ▶ Do not use the battery. Consult a STIHL dealer.
The charger does not run a self test.	The LED glows green for about 1 second and then red for about 1 second.	Electrical contact to charger was briefly interrupted.	<ul style="list-style-type: none"> ▶ Disconnect the mains plug from the power supply. ▶ Wait for 1 minute. ▶ Insert the mains plug in a wall outlet.

12 Specifications

12.1 STIHL AL 1, AL 5, AL 5-2 chargers

- Rated voltage: See rating plate

- Do not store the charger outside of the specified temperature limits, 12.3.

9 Cleaning

9.1 Cleaning the Charger

- ▶ Disconnect the mains plug from the power supply.
- ▶ Clean the charger with a damp cloth.
- ▶ Clean the charger's electrical contacts with a paintbrush or a soft brush.

10 Maintenance and Repairs

10.1 Servicing and repairing the charger

The charger does not need servicing and it cannot be repaired.

- ▶ If the charger has a malfunction or is damaged: Replace the charger.
- ▶ If the connecting cable has a malfunction or is damaged: Do not use the charger and have the connecting cable replaced by a STIHL servicing dealer.

For charging times, see www.stihl.com/charging-times.

12.2 Extension Cords

If an extension cord is used, the cross sectional area of its conductors must meet the following minimum requirements – depending on the line voltage and length of the extension cord:

If rated voltage on the rating label is 220V to 240V:

- Cord length up to 20 m: AWG 15 / 1.5 mm²
- Cord length 20 m up to 50 m: AWG 13 / 2.5 mm²

If rated voltage on the rating label is 100V to 127V:

- Cord length up to 10 m: AWG 14 / 2.0 mm²
- Cord length 10 m up to 30 m: AWG 12 / 3.5 mm²

12.3 Temperature limits



WARNING

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

12.4 Recommended temperature ranges

For optimum performance of the battery and charger, observe the following temperature ranges:

- Charging: 5°C to 40°C
- Storage: -20°C to +50°C

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

If the battery is wet or moist, allow the battery to dry for at least 48 h between 15°C and 50°C and with less than 70% humidity. Higher humidity may extend the drying time.

12.5 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.

13 Spare Parts and Accessories

13.1 Spare parts and accessories

STIHL  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.

14 Disposal

14.1 Disposing of the charger

Contact the local authorities or your STIHL dealer for information on disposal.

Improper disposal can 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 with domestic waste.

15 Addresses

www.stihl.com

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