

STIHL

STIHL HSA 56

Instruction Manual



Contents

1	Introduction	2	8.1	Switching On	16
2	Guide to Using this Manual	2	8.2	Switching Off	16
2.1	Applicable Documentation	2	9	Testing the Hedge Trimmer and Battery	17
2.2	Warning Notices in Text	3	9.1	Checking the Controls	17
2.3	Symbols in Text	3	9.2	Testing the Battery	17
3	Overview	3	10	Operating the Hedge Trimmer	18
3.1	Hedge Trimmer, Battery and Charger	3	10.1	Holding and Controlling the Hedge Trimmer	18
3.2	Symbols	4	10.2	Cutting	18
4	Safety Precautions	5	11	After Finishing Work	18
4.1	Warning Signs	5	11.1	After Finishing Work	18
4.2	Intended Use	5	12	Transporting	18
4.3	The Operator	6	12.1	Transporting the Hedge Trimmer	18
4.4	Clothing and Equipment	6	12.2	Transporting the Battery	19
4.5	Work Area and Surroundings	7	13	Storing	19
4.6	Safe Condition	8	13.1	Storing the Hedge Trimmer	19
4.7	Operation	10	13.2	Storing the Battery	19
4.8	Charging	11	13.3	Storing the Charger	19
4.9	Connecting to Power Supply	11	14	Cleaning	19
4.10	Transporting	12	14.1	Cleaning the Hedge Trimmer	19
4.11	Storing	12	14.2	Cleaning the Cutting Blades	20
4.12	Cleaning, Maintenance and Repairs	13	14.3	Cleaning the Battery	20
5	Preparing Hedge Trimmer for Operation	14	14.4	Cleaning the Charger	20
5.1	Preparing Hedge Trimmer for Operation	14	15	Maintenance	20
6	Charging the Battery, LEDs	14	15.1	Sharpening the Cutting Blades	20
6.1	Mounting the Charger on a Wall	14	16	Repairing	20
6.2	Charging the Battery	15	16.1	Repairing Hedge Trimmer, Battery and Charger	20
6.3	State of Charge	15	17	Troubleshooting	22
6.4	LEDs on Battery	15	17.1	Troubleshooting Hedge Trimmer and Battery	22
6.5	LED on Charger	15	17.2	Troubleshooting Charger	23
7	Removing and Fitting the Battery	16	18	Specifications	24
7.1	Fitting the Battery	16	18.1	STIHL HSA 56 Hedge Trimmer	24
7.2	Removing the Battery	16	18.2	Cutting Blades	24
8	Switching the Hedge Trimmer On/Off	16	18.3	STIHL AK Battery	24

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18.4 Charger STIHL AL 101	24
18.5 Extension Cords	24
18.6 Noise and Vibration Data	24
18.7 REACH	25
19 Spare Parts and Accessories	25
19.1 Spare Parts and Accessories	25
20 Disposal	25
20.1 Disposal of Hedge Trimmer, Battery and Charger	25
21 EC Declaration of Conformity	25
21.1 STIHL HSA 56 Hedge Trimmer	25
21.2 STIHL AL 101 Charger Conformity Notice	26
22 General Power Tool Safety Warnings	26
22.1 Introduction	26
22.2 Work area safety	26
22.3 Electrical safety	26
22.4 Personal safety	27
22.5 Power tool use and care	27
22.6 Battery tool use and care	28
22.7 Service	28
22.8 Hedge Trimmer Safety Warnings	28

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 specialist dealers guarantee competent advice and instruction as well as comprehensive service support.

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



Dr. Nikolas Stihl

IMPORTANT: READ BEFORE USE AND KEEP IN A SAFE PLACE.

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 AK 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.

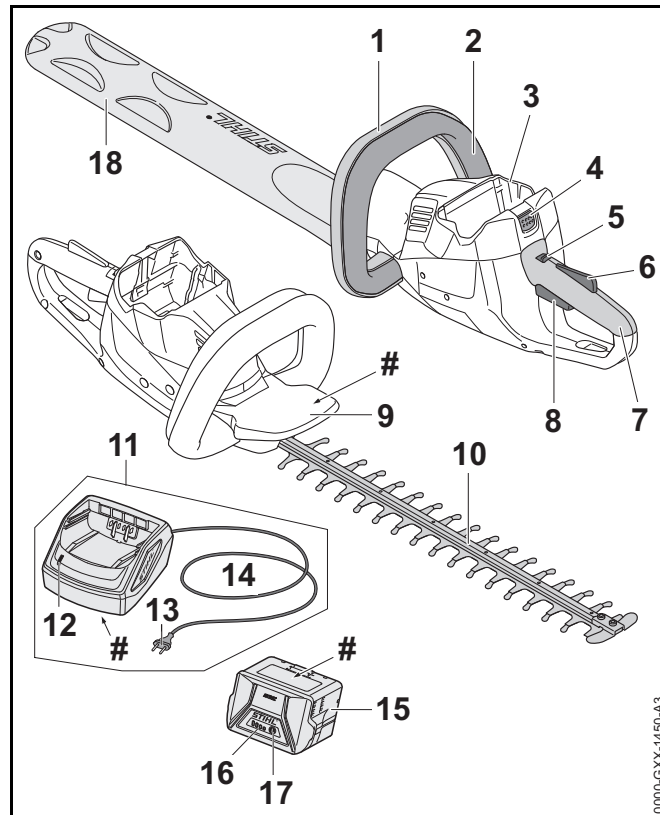
2.3 Symbols in Text



This symbol refers to a chapter in this instruction manual.

3 Overview

3.1 Hedge Trimmer, Battery and Charger



1 Loop Handle

For holding, controlling and carrying the hedge trimmer.

2 Switch Lever

Operated together with the trigger to switch the hedge trimmer on and off.

3 Battery Compartment

Accommodates the battery.

4 Locking Lever

Secures the battery in the battery compartment.

5 Retaining Latch

Operated together with the trigger lockout to unlock the trigger.

6 Trigger Lockout

Operated together with the retaining latch to unlock the trigger.

7 Control Handle

For operating, holding and controlling the hedge trimmer.

8 Trigger

Operated together with the switch lever to switch the hedge trimmer on and off.

9 Hand Guard

Helps protect hand on loop handle from contact with the cutting blades.

10 Cutting Blades

Perform the cutting action.

11 Charger

Charges the battery.

12 LED

The LED indicates the operating status of the charger.

13 Appliance Plug

Connects cable to wall outlet.

14 Connecting Cable

Connects charger to appliance plug.

15 Battery

Supplies power to the hedge trimmer.

16 LEDs

Indicate state of charge and malfunctions.

17 Button

Activates the LEDs on the battery.

18 Blade scabbard

Helps protect user from contact with the cutting blades.

Rating label with serial number**3.2 Symbols**

Meanings of symbols that may be on the hedge trimmer, battery and charger:



Retaining latch unlocks the trigger in this position.



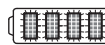
Retaining latch locks the trigger in this position.



1 LED glows red. Battery too hot or too cold.



4 LEDs flash red. There is a malfunction in the battery.



LED glows green and LEDs on battery glow or flash green. Battery is being charged.



LED flashes red. No electrical contact between battery and charger or malfunction in battery or charger.



LWA Guaranteed sound power level according to directive 2000/14/EC in dB(A) in order to make sound emissions of products comparable.



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



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



Do not dispose of the product with your household waste.

4 Safety Precautions

4.1 Warning Signs

Meanings of warning signs and labels on the hedge trimmer, battery and charger:



Observe safety notices and take the necessary precautions.



Read, understand and save the instruction manual.



Wear safety glasses.



Do not touch moving cutting blades.



Always remove the battery during work breaks, transport, storage, maintenance or repairs.



Protect hedge trimmer and charger from rain and dampness.



Protect battery from heat and fire.



Protect the battery from rain and damp – do not immerse it in fluids.



Observe battery's specified temperature range.

4.2 Intended Use

The STIHL HSA 56 hedge trimmer is designed for cutting hedges, shrubs, bushes and scrub.

The hedge trimmer must not be used in the rain.

The STIHL AK battery supplies power to the hedge trimmer.

The STIHL AL 101 charger recharges the STIHL AK battery.

⚠ WARNING

- Batteries and chargers not explicitly approved for the hedge trimmer by STIHL may cause a fire or explosion. This can result in serious or fatal injuries and damage to property.
 - Use the hedge trimmer with a STIHL AK battery.
 - Recharge the STIHL AK battery with a STIHL AL 101, AL 300 or AL 500 charger.
- Using the hedge trimmer, battery or the charger for purposes for which they were not designed may result in serious or fatal injuries and damage to property may occur.
 - Use the hedge trimmer, battery and charger as described in this instruction manual.

4.3 The Operator

WARNING

- Users without adequate training or instruction cannot recognize or assess the risks involved in using the hedge trimmer, battery and charger. The user or other persons may sustain serious or fatal injuries.



- ▶ Read, understand and save the instruction manual.

- ▶ If you pass the hedge trimmer, battery and charger on to another person: Always give them the instruction manual.
- ▶ Make sure the user meets the following requirements:
 - The user must be rested.
 - The user must be in good physical condition and mental health to operate and work with the hedge trimmer, battery and charger. If the user's physical, sensory or mental ability is

restricted, he or she may work only under the supervision of or as instructed by a responsible person.

- The user is able to recognize and assess the risks involved in using the hedge trimmer, battery and charger.
 - The user must be of legal age or is being trained in a trade under supervision in accordance with national rules and regulations.
 - The user has received instruction from a STIHL servicing dealer or other experienced user before working with the hedge trimmer for the first time.
 - The user must not be under the influence of alcohol, medication or drugs.
- ▶ If you have any queries: Contact a STIHL servicing dealer for assistance.

4.4 Clothing and Equipment

WARNING

- Long hair can be sucked into the hedge trimmer during operation. This can result in serious injuries.
 - ▶ Tie up and confine long hair so that it cannot be sucked into the hedge trimmer.
- Objects can be thrown through the air at high speed during operation. This can result in personal injury.



- ▶ Wear close-fitting safety glasses. Suitable safety glasses that have been tested and labeled in accordance with EN 166 or national standards are available from retailers.
- ▶ Wear a long-sleeved, snug-fitting upper garment and long trousers.

- Dust can be whipped up during operation: Whipped up dust can damage the respiratory passages and cause allergic reactions.
 - ▶ Wear a respirator.
- Inappropriate clothing can snag on wood, brush or the hedge trimmer. Not wearing personal protective equipment may result in serious injury.
 - ▶ Wear snug-fitting clothing.
 - ▶ Do not wear a scarf or jewelry.
- The user can come into contact with the cutting blades during operation. This can result in serious injuries.
 - ▶ Wear footwear made of durable material.
 - ▶ Wear long trousers made of durable material.
- The user can come into contact with the cutting blades during cleaning and maintenance work. This can result in personal injury.
 - ▶ Wear work gloves made of durable material.
- Wearing unsuitable footwear may cause you to slip or stumble. This can result in personal injury.
 - ▶ Wear sturdy enclosed footwear with non-slip soles.

4.5 Work Area and Surroundings

4.5.1 Hedge Trimmer

WARNING

- Bystanders, children and animals cannot recognize or assess the dangers of the hedge trimmer or flying debris. Innocent bystanders, children and animals may be seriously injured and damage to property may occur.
 - ▶ Keep bystanders, children and animals away from the work area.
 - ▶ Do not leave the hedge trimmer unattended.
 - ▶ Make sure that children cannot play with the hedge trimmer.

- The hedge trimmer is not waterproof. Working in the rain or a damp location may result in an electric shock. This can result in injuries to the user and may damage the hedge trimmer.



- ▶ Do not work in the rain or a damp location.

- Electrical components of the hedge trimmer can produce sparks. Sparks may cause a fire or an explosion in an easily combustible or explosive environment. This can result in serious or fatal injuries and damage to property.
 - ▶ Do not work in an easily combustible or explosive environment.

4.5.2 Battery

WARNING

- Bystanders, children and animals cannot recognize or assess the dangers of the battery. Innocent children, bystanders and animals may be seriously injured.
 - ▶ Keep children, bystanders 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, it may catch fire or explode. This can result in serious injuries and damage to property.



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



- ▶ Use and store the battery at temperatures between -10°C and +50°C.



- ▶ Protect the battery from rain and damp – do not immerse it in fluids.

- ▶ Keep battery away from metallic objects.
- ▶ Do not expose battery to high pressure.
- ▶ Do not expose battery to microwaves.
- ▶ Protect battery from chemicals and salts.

4.5.3 Charger

⚠ WARNING

- Innocent children, bystanders and animals are not aware of and cannot assess the dangers of a charger or electric current. Innocent children, bystanders and animals may be seriously injured.
 - ▶ Keep children, bystanders and animals away from the work area.
 - ▶ Do not leave the charger unattended.
 - ▶ Make sure that children cannot play with the charger.
- The charger is not waterproof. Working in the rain or a damp location may result in an electric shock. This can result in injuries to the user and may damage the charger.



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

- 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 can result in serious injuries and damage to property.
 - ▶ Operate the charger in a dry place, indoors only.
 - ▶ Do not operate the charger in an easily combustible or explosive environment.

- ▶ Do not operate the charger on an easily combustible surface.
- ▶ Use and store the charger at a temperature between +5°C and +40°C.
- Persons may trip over the connecting cable. This can result in injuries and may damage the charger.
 - ▶ Lay the connecting cable flat on the floor.

4.6 Safe Condition

4.6.1 Hedge Trimmer

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

- The hedge trimmer is undamaged.
- Hedge trimmer is clean and dry.
- The controls function properly and have not been modified.
- Cutting blades are properly mounted.
- Only original STIHL accessories designed for this hedge trimmer are fitted.
- Accessories are properly mounted.

⚠ 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.
 - ▶ Work only with an undamaged hedge trimmer.
 - ▶ If the hedge trimmer is dirty or wet: Clean the hedge trimmer and allow it to dry.
 - ▶ Never attempt to modify the hedge trimmer.
 - ▶ If the controls do not function properly: Do not use your hedge trimmer.
 - ▶ Only fit original STIHL accessories designed for this hedge trimmer model.

- ▶ Mount accessories as described in this instruction manual or the instructions supplied with the accessory.
- ▶ Never insert objects in the hedge trimmer's openings.
- ▶ If you have any queries: Contact your STIHL servicing dealer for assistance.

4.6.2 Cutting Blades

The cutting blades are in a safe condition if the following points are observed:

- Cutting blades are undamaged.
- Cutting blades are not deformed.
- Cutting blades move freely.
- Cutting blades are properly sharpened.
- Cutting blades have no burrs.

WARNING

- If they are in an unsafe condition, parts of the cutting blades may come off and be thrown at high speed. This can result in serious injuries.
 - ▶ Work only with undamaged cutting blades.
 - ▶ Make sure the cutting blades are properly sharpened and deburred.
 - ▶ If you have any queries: Contact your STIHL servicing dealer.

4.6.3 Battery

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

- Battery is undamaged.
- 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. This can result in serious injuries.
 - ▶ Never work with a damaged battery.
 - ▶ Never attempt to charge a damaged or defective battery.
 - ▶ If the battery is dirty or wet: Clean the battery and allow it to dry.
 - ▶ 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.
- Fluid may escape from a damaged battery. The fluid can cause irritation if it contacts the skin or eyes.
 - ▶ Avoid contact with the fluid.
 - ▶ In case of contact with the skin: Wash affected areas with plenty of water and soap.
 - ▶ In case of contact with the eyes: Rinse eyes with plenty of water for at least 15 minutes and seek medical advice.
- A damaged or defective battery may smell unusual, emit smoke or burn. This can result in serious or fatal injuries and damage to property.
 - ▶ 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.

4.6.4 Charger

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

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

⚠ WARNING

- If the product does not comply with safety requirements, components will no longer function properly or 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.

4.7 Operation

⚠ WARNING

- The user cannot concentrate on the work in certain situations. The user may stumble, fall and be seriously injured.
 - ▶ Work calmly and carefully.
 - ▶ If light and visibility are poor: Do not use your hedge trimmer.
 - ▶ Operate the hedge trimmer alone.
 - ▶ Watch out for obstacles.
 - ▶ Stand on the ground while working and keep a good balance. If it is necessary to work at heights: Use a lift bucket or a safe platform.
 - ▶ If you begin to feel tired: Take a break.
- Working above shoulder height can cause you to tire quickly. This can result in serious injuries.
 - ▶ Work above shoulder height for short periods only.
 - ▶ Take regular breaks.

- If the moving cutting blades make contact with a hard object they can be brought to a sudden stop. The reactive forces that occur can cause the user to lose control of the hedge trimmer and be seriously injured.
 - ▶ Hold the hedge trimmer firmly with both hands.
 - ▶ Before starting work, check hedge for hard objects and remove any such objects.

- The moving cutting blades can cut the user. This can result in serious injuries.



- ▶ Do not touch moving cutting blades.
 - ▶ If the cutting blades are blocked by an object: Switch off the hedge trimmer and remove the battery. Then remove the object causing the blockage.
- If the behavior of the hedge trimmer changes during operation or feels unusual, it may no longer be in a safe condition. This can result in serious injuries and damage to property.
 - ▶ Stop work, remove the battery and contact your STIHL servicing dealer for assistance.
- Hedge trimmer vibrations may occur during operation.
 - ▶ Wear gloves.
 - ▶ Take regular breaks.
 - ▶ If signs of circulation problems occur: Seek medical advice.
- Note that the cutting blades continue to run for about 1 second after you release the trigger. The moving cutting blades can cut the user. This can result in serious injuries.
 - ▶ Hold the hedge trimmer firmly by the control handle and loop handle and wait until the cutting blades come to a complete standstill.

⚠ DANGER

- Working near live electric cables can result in accidental contact with the cutting blades and damage the cables. This can result in serious or fatal injuries.
 - ▶ Do not work near live electric cables.

4.8 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.

4.9 Connecting to Power Supply

Contact with live components may occur for the following reasons:

- The connecting cable or extension cable is damaged.
- Connecting cable plug or extension cable is damaged.
- Wall outlet is not properly installed.


DANGER

- Contact with live components can result in an electric shock. This can result in serious or fatal injuries.
 - ▶ Check that the connecting cable, extension cable and their plugs are not damaged.



If the connecting cable or extension cable is damaged:

- ▶ Do not touch damaged areas.
- ▶ Disconnect the plug from the wall outlet.
- ▶ Never touch the connecting cable, extension cable or their plugs with wet hands.
- ▶ Insert the appliance plug of the connecting cable or extension cable in a properly installed fused wall outlet with ground contact.
- ▶ Install the charger with a ground fault circuit interrupter (30 mA, 30 ms).

- A damaged or unsuitable extension cable can cause an electric shock. This can result in serious or fatal injuries.
 - ▶ Use an extension cable with the correct wire gauge,  18.5.

WARNING


- Overvoltage can occur in the charger if the line voltage or frequency are incorrect during charging. The charger may be damaged.
 - ▶ Make sure the line voltage and frequency agree with the data on the charger's rating plate.
- If several chargers are connected to one wall outlet, electric cables may be overloaded during the charging process. The cables can overheat and cause a fire. This can result in serious or fatal injuries and damage to property.
 - ▶ Connect the charger to a single wall outlet.
 - ▶ Do not connect the charger to multiple sockets.
- A carelessly laid connecting or extension cable can be damaged and cause others to trip or fall. This can result in injuries and may damage the connecting cable or extension cable.
 - ▶ Position and mark connecting cable and extension cable so they do not represent a trip hazard.
 - ▶ Position the connecting and extension cables so that they are not under tension or entangled.
 - ▶ Position the connecting and extension cables so that they cannot be damaged, kinked, pinched or chafed.
 - ▶ Protect the connecting cable and extension cable from heat, oil and chemicals.
 - ▶ Lay the connecting and extension cables on a dry surface.

- The extension cable becomes hot during operation. If the heat cannot dissipate, it may cause a fire.
 - ▶ If you use a cable drum: Unwind the extension cable to its full length.
- If electric cables or pipes are embedded in the wall, they may be damaged when the charger is mounted on a wall. Contact with live components can result in an electric shock. This can result in serious injuries and damage to property.
 - ▶ Check that there are no electric cables or pipes embedded in the wall.
- If the charger is not mounted on the wall as described in this instruction manual, the charger or the battery may fall down or the charger may overheat. This may result in personal injuries and damage to property.
 - ▶ Mount the charger on the wall as described in this instruction manual.
- If the charger is mounted on a wall with the battery inserted, the battery may fall out and be damaged. This may result in personal injuries and damage to property.
 - ▶ Mount the charger on the wall first and then insert the battery.

4.10 Transporting

4.10.1 Hedge Trimmer

⚠ WARNING

- The hedge trimmer may turn over or shift during transport. This may result in personal injuries and damage to property.
 - ▶ Push the retaining latch into position .



- ▶ Remove the battery.

- ▶ Fit the blade scabbard so that it completely covers the cutting blades.

- ▶ Secure the hedge trimmer with lashing straps or a net to prevent it turning over and moving.

4.10.2 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.
 - ▶ Store the battery in non-conductive packaging.
- The battery may turn over or shift during transport. This may result in personal injuries 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.

4.11 Storing

4.11.1 Hedge Trimmer

⚠ WARNING


- Children are not aware of and cannot assess the dangers of a hedge trimmer and can be seriously injured.
 - ▶ Push the retaining latch into position .



- ▶ Remove the battery.

- ▶ Fit the blade scabbard so that it completely covers the cutting blades.
- ▶ Store the hedge trimmer out of the reach of children.

- Dampness can corrode the electrical contacts on the trimmer and metal components. This can damage the hedge trimmer.

► Push the retaining latch into position .



► Remove the battery.

► Store the hedge trimmer in a clean and dry condition.

4.11.2 Battery

WARNING

- Children are not aware of and cannot assess the dangers of the battery and can be seriously injured.
 - Store the battery out of the reach of children.
- The battery is not protected against all ambient conditions. The battery may be damaged if it is exposed to certain ambient conditions.
 - Store the battery in a clean and dry condition.
 - Store the battery in a confined space.
 - Store the battery separately from the hedge trimmer and charger.
 - Store the battery in non-conductive packaging.
 - Use and store the battery at temperatures between -10°C and +50°C.

4.11.3 Charger

WARNING

- Children are not aware of and cannot assess the dangers of a charger. Children may sustain serious or fatal injuries.
 - Remove the battery.
 - Store the charger out of the reach of children.

- The charger is not protected against all ambient conditions. The charger may be damaged if it is exposed to certain ambient conditions.

► Remove the battery.

► If the charger is hot: Allow charger to cool down.

► Store the charger in a clean and dry condition.

► Store the charger in a confined space.


► Store the charger at a temperature between +5°C and +40°C.

- The connecting cable must not be used for carrying or hanging up the charger. The connecting cable and the charger may be damaged.
 - Hold the charger by the housing. A recessed handle is provided on the back of the charger.
 - Hang the charger on the wall bracket.

4.12 Cleaning, Maintenance and Repairs

WARNING

- The hedge trimmer may start unintentionally if the battery is left in place during cleaning, maintenance or repair operations. This can result in serious injuries and damage to property.

► Push the retaining latch into position .



► Remove the battery.

- Aggressive cleaning agents, a water jet or pointed objects can damage the hedge trimmer, cutting blades, battery and charger. If the hedge trimmer, cutting blades, battery

or charger are not cleaned correctly, components may no longer function properly or safety devices may be rendered inoperative. This can result in serious injuries.

- ▶ Clean the hedge trimmer, cutting blades, battery and charger as described in this instruction manual.
- If the hedge trimmer, cutting blades, battery or charger are not serviced correctly, components may no longer function properly or safety devices may be rendered inoperative. This can result in serious or fatal injuries.
 - ▶ Do not attempt to service or repair the hedge trimmer, battery or charger.
 - ▶ If the hedge trimmer, battery or the charger require servicing or repairs: Contact your STIHL servicing dealer for assistance.
 - ▶ Maintain the cutting blades as described in this instruction manual.
- The user can be cut by the sharp cutting edges while cleaning or servicing the cutting blades. This can result in personal injury.
 - ▶ Wear work gloves made of durable material.

5 Preparing Hedge Trimmer for Operation

5.1 Preparing Hedge Trimmer for Operation

Perform the following steps before starting work:

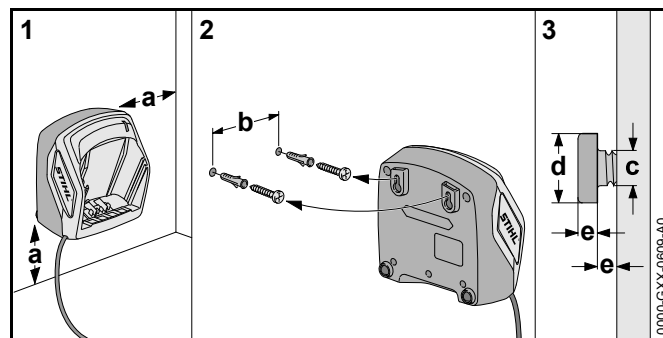
- ▶ Make sure the following components are in a safe condition:
 - Hedge trimmer, 4.6.1.
 - Cutting blades, 4.6.2.
 - Battery, 4.6.3.
 - Charger, 4.6.4.
- ▶ Check the battery, 9.2.
- ▶ Fully charge the battery, 6.2.
- ▶ Clean the hedge trimmer, 14.1.
- ▶ Check the controls, 9.1.

- ▶ If 3 LEDs flash red while you are checking the controls: Remove the battery and contact your STIHL servicing dealer. Malfunction in hedge trimmer.
- ▶ If you cannot carry out this work: Do not use your hedge trimmer 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.



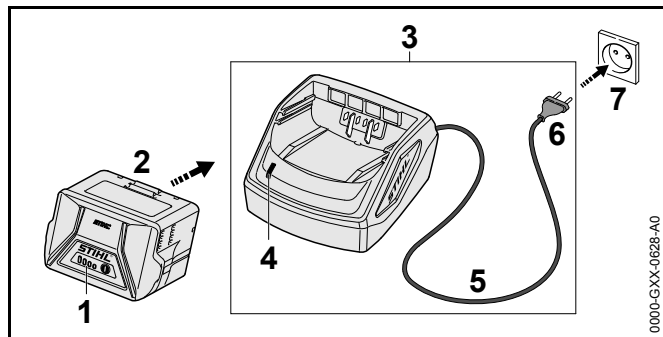
- ▶ Check the following points when mounting the charger on a wall:
 - Suitable fixing materials are used.
 - The charger is level.
 - The following dimensions are maintained:
 - a = at least 100 mm
 - b (for AL 101) = 75 mm
 - b (for AL 300 and AL 500) = 120 mm
 - c = 4.5 mm
 - d = 9 mm
 - e = 2.5 mm

6.2 Charging the Battery

The charging time depends on several factors, e.g. temperature of the battery or the ambient temperature. The actual charging time may differ from the specified charging time. For specified charging times see www.stihl.com/charging-times.

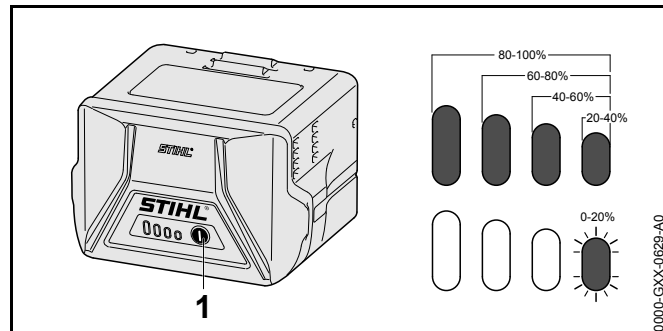
The charging process starts automatically when the plug is inserted in a wall outlet and the battery is fitted in the charger. The charger switches itself off automatically when the battery is fully charged.

The battery and charger heat up during the charging process.



- ▶ Insert the plug (6) in a convenient wall outlet (7).
The charger (3) runs a self test. The LED (4) glows green for about 1 second and then red for about 1 second.
- ▶ Lay the connecting cable (5).
- ▶ Insert the battery (2) in the guides in the charger (3) and press it home as far as stop.
The LED (4) glows green. The LEDs (1) glow green and the battery (2) is being charged.
- ▶ If the LED (4) and the LEDs (1) stop glowing: Disconnect the plug (6) from the wall outlet (7).
Battery is fully charged.
- ▶ Remove the battery (2).

6.3 State of Charge



- ▶ Press the button (1).
The LEDs (5) glow green for about 5 seconds and indicate the state of charge.
- ▶ If the LED on the right flashes green: Charge the battery.

6.4 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, 17.
There is a malfunction in hedge trimmer or battery.

6.5 LED on Charger

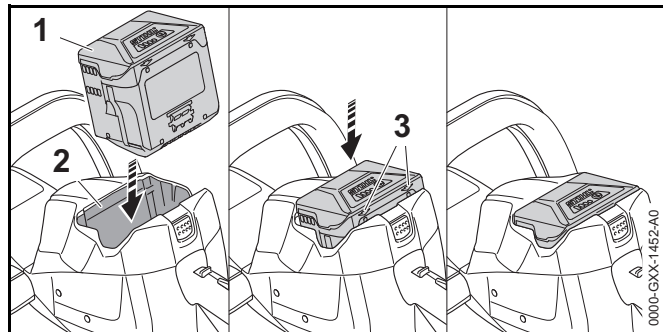
The LED indicates the operating status of the charger.

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

- ▶ If the LED flashes red: Rectify the malfunction.
Malfunction in charger.

7 Removing and Fitting the Battery

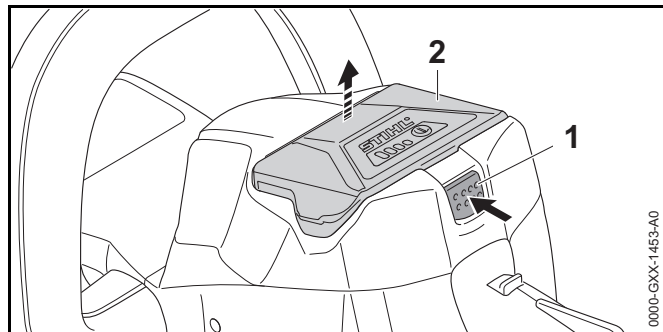
7.1 Fitting the Battery



- ▶ Insert the battery (1) in the battery compartment (2) and press it home until you hear a click. Arrows (3) on battery (1) are still visible and battery (1) is held securely in battery compartment (2). There is no electrical contact between the hedge trimmer and battery (1).
- ▶ Push the battery (1) into the battery compartment (2) as far as it stops. The battery (1) engages with a second click and is flush with the hedge trimmer's housing.

7.2 Removing the Battery

- ▶ Stand the hedge trimmer on a level surface.



- ▶ Press the locking lever (1). The battery (2) is unlocked and can be removed.

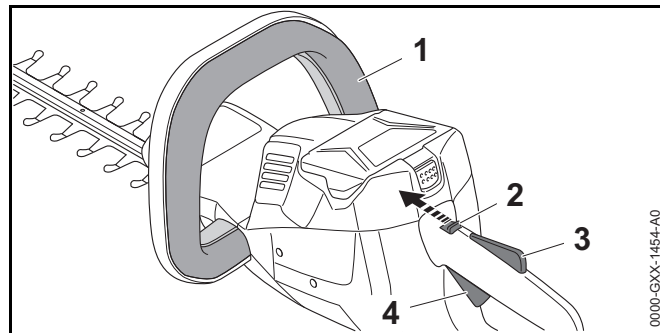
8 Switching the Hedge Trimmer On/Off

8.1 Switching On

WARNING

The motor accelerates and the cutting blades run regardless of the sequence in which the switch lever and trigger are depressed. If you depress the trigger first and then the switch lever, you may lose control of the hedge trimmer. This can result in serious injuries.


- ▶ Depress the switch lever first and then the trigger.



- ▶ Depress the switch lever (1) and hold it in that position.
- ▶ Push the retaining latch (2) with your thumb to position 1.
- ▶ Depress the trigger lockout (3) with your hand and hold it there.
- ▶ Pull the trigger (4) with your index finger and hold it there. The motor accelerates and the cutting blades run.

8.2 Switching Off



- ▶ Release the switch lever, trigger and lockout lever.
- ▶ Wait until the cutting blades come to a complete standstill after about 1 second.

- ▶ If the cutting blades continue to run after about 1 second: Remove the battery and contact your STIHL servicing dealer.
Your hedge trimmer has a malfunction.
- ▶ Push the retaining latch into position .

9 Testing the Hedge Trimmer and Battery

9.1 Checking the Controls

Retaining latch, trigger lockout and trigger

- ▶ Remove the battery.
- ▶ Push the retaining latch into position .
- ▶ Attempt to pull the trigger without depressing the lockout lever.
- ▶ If the trigger can be pulled: Do not use your hedge trimmer and contact your STIHL servicing dealer.
Retaining latch or trigger lockout is faulty.
- ▶ Push the retaining latch into position .
- ▶ Depress the trigger lockout lever and hold it in that position.
- ▶ Pull the trigger.
- ▶ Release the trigger and trigger lockout lever.
- ▶ If the trigger or trigger lockout is stiff or does not spring back to the idle position: Do not use your hedge trimmer and contact your STIHL servicing dealer.
Trigger or trigger lockout is faulty.

Switch Lever

- ▶ Remove the battery.
- ▶ Depress the switch lever and release it again.
- ▶ If the switch lever is stiff or does not spring back to its idle position: Do not use your hedge trimmer and contact your STIHL servicing dealer.
The switch lever has a malfunction.

Switch on the hedge trimmer

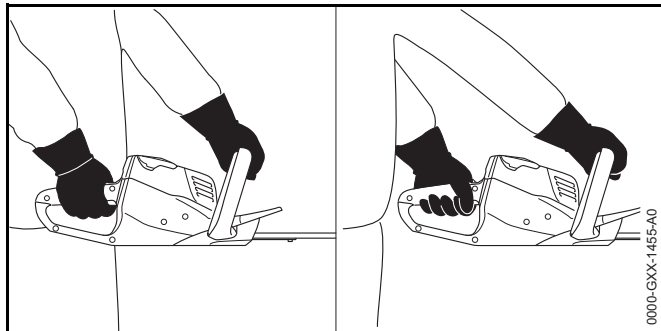
- ▶ Fit the battery.
- ▶ Depress the switch lever and release it again.
- ▶ If the cutting blades have run or are running: Do not use your hedge trimmer and contact your STIHL servicing dealer.
The trigger has a malfunction.
- ▶ Depress the trigger lockout lever and hold it in that position.
- ▶ Pull the trigger and hold it there.
- ▶ If the cutting blades run: Do not use your hedge trimmer and contact your STIHL servicing dealer.
The switch lever has a malfunction.
- ▶ Depress the switch lever and hold it in that position.
The cutting blades run.
- ▶ If 3 LEDs flash red: Remove the battery and contact your STIHL servicing dealer.
There is a malfunction in the hedge trimmer.
- ▶ Release the switch lever.
The cutting blades stop running after about 1 second.
- ▶ If the cutting blades continue to run after 1 second: Remove the battery and contact your STIHL servicing dealer.
Your hedge trimmer has a malfunction.

9.2 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.

10 Operating the Hedge Trimmer

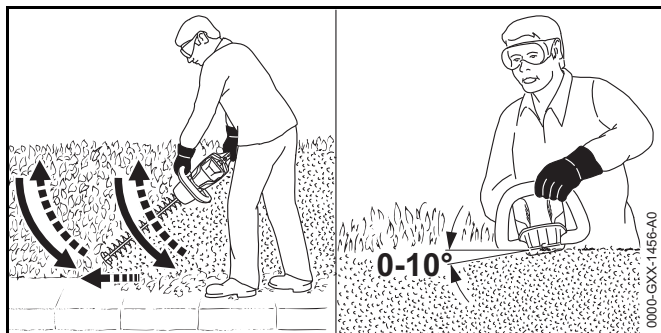
10.1 Holding and Controlling the Hedge Trimmer



- ▶ Hold the hedge trimmer with one hand on the control handle – wrap your thumb around the control handle.
- ▶ Hold the hedge trimmer with the other hand on the loop handle – wrap your thumb around the loop handle.

10.2 Cutting

- ▶ Use lopping shears or a chainsaw to cut out thick branches first.




- ▶ Swing the hedge trimmer from the bottom upwards in an arc while making the cut.
- ▶ Lower the nose of the hedge trimmer without cutting.
- ▶ Walk slowly and steadily forwards.

- ▶ Swing the hedge trimmer from the bottom upwards in an arc while making the cut.
- ▶ Cut the other side of the hedge in the same way.
- ▶ Hold the cutting blades at an angle of 0° to 10° to the top of the hedge.
- ▶ Swing the hedge trimmer horizontally and in an arc while making the cut.
- ▶ If cutting performance deteriorates: Sharpen the cutting blades.


11 After Finishing Work

11.1 After Finishing Work


- ▶ Switch off the hedge trimmer, push retaining latch to position  and remove the battery.
- ▶ If the hedge trimmer is wet: Allow the hedge trimmer to dry.
- ▶ If the battery is wet: Allow the battery to dry.
- ▶ Clean the hedge trimmer.
- ▶ Clean the cutting blades.
- ▶ Fit the blade scabbard so that it completely covers the cutting blades.
- ▶ Clean the battery.

12 Transporting

12.1 Transporting the Hedge Trimmer

- ▶ Switch off the hedge trimmer, push retaining latch to position  and remove the battery.
- ▶ Fit the blade scabbard so that it completely covers the cutting blades.
- ▶ Carry the hedge trimmer by the loop handle with the cutting blades behind you.
- ▶ Transporting the hedge trimmer in a vehicle: Secure the hedge trimmer to prevent turnover and movement.

12.2 Transporting the Battery


- ▶ Switch off the hedge trimmer, push retaining latch to position  and remove the battery.
- ▶ Make sure the battery is in a safe condition.
- ▶ Observe the following points when packing the battery:
 - The packaging must be non-conductive.
 - Make sure the battery cannot shift inside the packaging.
- ▶ Secure the packaging so that it cannot move.

The battery is subject to the requirements for the transport of dangerous goods. The battery is classified as UN 3480 (lithium-ion batteries) and has been tested in accordance with UN Manual of Tests and Criteria, Part III, sub-section 38.3.

For transport regulations see www.stihl.com/safety-data-sheets

13 Storing

13.1 Storing the Hedge Trimmer

- ▶ Switch off the hedge trimmer, push retaining latch to position  and remove the battery.
- ▶ Fit the blade scabbard so that it completely covers the cutting blades.
- ▶ Observe the following points when storing the hedge trimmer:
 - Hedge trimmer is out of the reach of children.
 - Hedge trimmer is clean and dry.

13.2 Storing the Battery

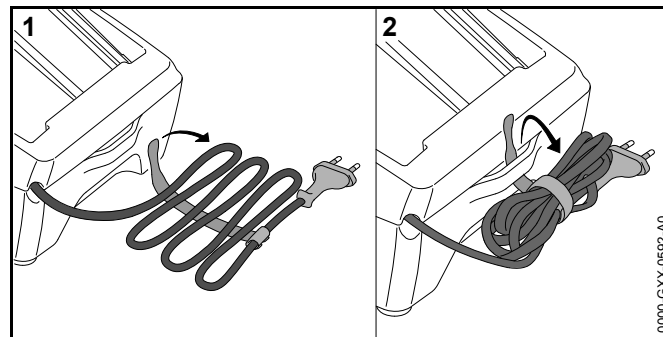
STIHL recommends that you store the battery with a charge between 40% and 60% (2 LEDs glow green).

- ▶ Observe the following points when storing the battery:
 - Battery is out of the reach of children.
 - Battery is clean and dry.
 - Battery is in an enclosed space.

- Store the battery separately from the hedge trimmer and charger.
- Battery is in non-conductive packaging.
- Battery is in a temperature range between -10°C and +50°C.

13.3 Storing the Charger


- ▶ Unplug the mains plug from the socket.
- ▶ Remove the battery.



- ▶ Roll up the connecting cord and attach it to the charger.
- ▶ The charger should be stored in such a way that the following conditions are met:
 - The charger is out of the reach of children.
 - The charger is clean and dry.
 - The charger is in an enclosed room.
 - The charger is separate from the battery.
 - The charger is not hung up by the connecting cord.
 - The charger is stored at temperatures between + 5 °C and + 40 °C.


14 Cleaning

14.1 Cleaning the Hedge Trimmer

- ▶ Switch off the hedge trimmer, push retaining latch to position  and remove the battery.

- Clean the hedge trimmer with a damp cloth or STIHL resin solvent.

14.2 Cleaning the Cutting Blades

- Switch off the hedge trimmer, push retaining latch to position  and remove the battery.
- Spray both sides of blades with STIHL resin solvent.
- Fit the battery.
- Run the hedge trimmer for 5 seconds, .
The cutting blades run. STIHL resin solvent is distributed evenly.

14.3 Cleaning the Battery

- Clean the battery with a damp cloth.

14.4 Cleaning the Charger

- Disconnect the plug from the wall outlet.
- Clean the charger with a damp cloth.
- Clean the charger's electrical contacts with a soft brush.

15 Maintenance

15.1 Sharpening the Cutting Blades

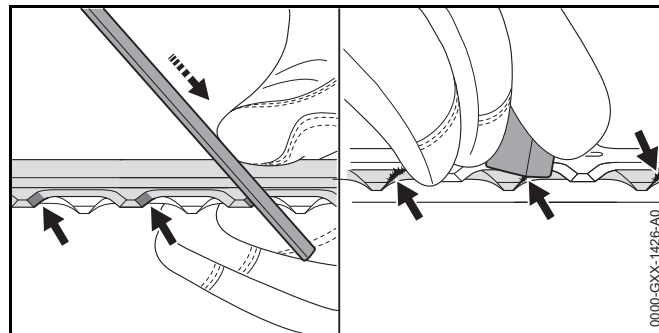
STIHL recommends you have the cutting blades resharpened by a STIHL servicing dealer.




WARNING

The teeth of the cutting blades are very sharp. There is a risk of cut injuries.

- Wear work gloves made of durable material.



- Use a STIHL flat crosscut file to sharpen each cutting edge on the upper blade. The file only sharpens on the forward stroke. Maintain the prescribed sharpening angle,  18.2.
- Turn the hedge trimmer over.
- Sharpen the remaining cutting edges.
- Deburr each cutting edge from below.
- Turn the hedge trimmer over.
- Deburr the remaining cutting edges.
- Use a damp cloth to remove the filing dust.
- Spray both sides of blades with STIHL resin solvent.
- Run the hedge trimmer for 5 seconds, .
The cutting blades run. STIHL resin solvent is distributed evenly.
- If you have any queries: Contact your STIHL servicing dealer for assistance.

16 Repairing

16.1 Repairing Hedge Trimmer, Battery and Charger

The hedge trimmer, cutting blades, battery and charger are not user serviceable.

- If the hedge trimmer or cutting blades are damaged: Do not use your hedge trimmer and contact your STIHL servicing dealer.

- ▶ If the battery has a malfunction or is damaged: Replace the battery.
- ▶ 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 connecting cable replaced by a STIHL servicing dealer.

17 Troubleshooting

17.1 Troubleshooting Hedge Trimmer and Battery

Condition	LEDs on Battery	Cause	Remedy
Hedge trimmer does not start when switched on.	1 LED flashes green.	Battery has low charge.	► Charge the battery.
	1 LED glows red.	Battery too hot or too cold.	► Remove the battery. ► Allow battery to cool down or warm up.
	3 LEDs flash red.	There is a malfunction in the hedge trimmer.	► Remove the battery. ► Clean contacts in battery compartment. ► Fit the battery. ► Switch on the hedge trimmer. ► If 3 LEDs continue to flash red: Contact a STIHL servicing dealer for assistance.
		Cutting blades do not move freely.	► Spray both sides of blades with STIHL resin solvent. ► If 3 LEDs continue to flash red: Do not use your hedge trimmer and contact your STIHL servicing dealer for assistance.
	3 LEDs glow red.	Hedge trimmer is too hot.	► Remove the battery. ► Allow the hedge trimmer to cool down.
	4 LEDs flash red	There is a malfunction in the battery.	► Remove battery and insert it again. ► Switch on the hedge trimmer. ► If 4 LEDs continue to flash red: Do not use the battery and contact your STIHL dealer for assistance.
		No electrical contact between the hedge trimmer and battery.	► Remove the battery. ► Clean contacts in battery compartment. ► Fit the battery.
		Hedge trimmer or battery damp.	► Allow hedge trimmer or battery to dry.
	3 LEDs glow red.	Hedge trimmer is too hot.	► Remove the battery. ► Allow the hedge trimmer to cool down.
Hedge trimmer cuts out during operation.	3 LEDs glow red.	Hedge trimmer is too hot.	► Remove the battery. ► Allow the hedge trimmer to cool down.

Condition	LEDs on Battery	Cause	Remedy
		There is a electrical malfunction.	<ul style="list-style-type: none"> ▶ Remove battery and insert it again. ▶ Switch on the hedge trimmer.
Hedge trimmer runtime is too short.		Battery not fully charged.	▶ Fully charge the battery.
		Normal battery life has been exceeded.	▶ Replace the battery.
Charge process does not start when battery is inserted in the charger.	1 LED glows red.	Battery too hot or too cold.	<ul style="list-style-type: none"> ▶ Leave battery in the charger. Charge process starts automatically as soon as permissible temperature range is reached.

17.2 Troubleshooting Charger

Condition	LED on Charger	Cause	Remedy
Battery not being charged.	LED flashes red.	No electrical contact between charger and battery.	<ul style="list-style-type: none"> ▶ Remove the battery. ▶ Clean contacts on charger. ▶ Fit the battery.
		Malfunction in charger.	▶ Do not use the charger and contact your STIHL servicing dealer.

18 Specifications

18.1 STIHL HSA 56 Hedge Trimmer

- Approved battery: STIHL AK
- Weight without battery: 2.9 kg

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

18.2 Cutting Blades

- Tooth spacing: 30 mm
- Cutting length: 450 mm
- Sharpening angle: 35°

18.3 STIHL AK 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
- Permissible temperature range for operation and storage: -10°C to +50°C

18.4 Charger STIHL AL 101

- Rated voltage: see rating plate
- Frequency: see rating plate
- Rated power: see rating plate
- Charging current: see rating plate
- Permissible temperature range for use and storage: + 5 °C to + 40 °C

The charging times are indicated at www.stihl.com/charging-times.

18.5 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:

220 V to 240 V

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

100 V to 127 V

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

18.6 Noise and Vibration Data

K-value for sound pressure level is 2 dB(A). K-value for sound power level is 2 dB(A). K-value for vibration level is 2 m/s².

STIHL recommends that you wear hearing protection.

- Sound pressure level L_p measured according to EN 60745-2-15: 80 dB(A)
- Sound power level L_{WA} measured according to EN 60745-2-15: 91 dB(A)
- Vibration level a_{hv} measured according to EN 60745-2-15
 - Control handle: < 2.7 m/s². K-value for vibration level is 2 m/s².
 - Loop handle: < 1.2 m/s².

The vibration values quoted above have been measured according to a standardized test procedure and may be used to compare electric power tools. Depending on the type of usage, the vibrations that actually occur may differ from the values quoted. The vibration values quoted may be used for an initial assessment of the user's exposure to vibrations. The actual exposure to vibrations has to be estimated. This process may also take into account times during which the electric power tool is switched off and times during which it is switched on but running off load.

Information on compliance with Vibration Directive 2002/44/EC is available at www.stihl.com/vib.

18.7 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.

19 Spare Parts and Accessories

19.1 Spare Parts and Accessories

STIHL® These symbols identify original STIHL replacement parts and original STIHL accessories.

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

Original STIHL replacement parts and original STIHL accessories are available from STIHL servicing dealers.

20 Disposal

20.1 Disposal of Hedge Trimmer, Battery and Charger

Contact your STIHL servicing dealer for information on disposal.

- ▶ Dispose of the hedge trimmer, battery, charger, accessories and packaging in accordance with local regulations and environmental requirements.

21 EC Declaration of Conformity

21.1 STIHL HSA 56 Hedge Trimmer

ANDREAS STIHL AG & Co. KG
Badstrasse 115
D-71336 Waiblingen
Germany

declare in exclusive responsibility that

- Category: Cordless hedge trimmer
- Make: STIHL
- Model: HSA 56
- Serial identification: 4521

conforms to the relevant provisions of Directives 2011/65/EU, 2006/42/EC, 2014/30/EU and 2000/14/EC and has been developed and manufactured in compliance with the following standards in the versions valid on the date of production: EN 55014-1, EN 55014-2, EN 60745-1 and EN 60745-2-15.

Applied conformity assessment procedure in accordance with Directive 2000/14/EC, Annex V.

- Measured sound power level: 91 dB(A)
- Guaranteed sound power level: 93 dB(A)

Technical documents are deposited at ANDREAS STIHL AG & Co. KG Produktzulassung (Product Licensing).

The year of manufacture, country of manufacture and serial number are applied to the hedge trimmer.

Done at Waiblingen, 01.03.2017

ANDREAS STIHL AG & Co. KG



Thomas Elsner, Director Product Management and Services

21.2 STIHL AL 101 Charger Conformity Notice

This charger has been manufactured and put on the market in accordance with the following directives: 2014/35/EU, 2014/30/EU and 2011/65/EU.

The year of manufacture, country of manufacture and serial number are applied to the blower.

The complete EC Declaration of Conformity is available from ANDREAS STIHL AG & Co. KG, Badstrasse 115, 71336 Waiblingen, Germany.

22 General Power Tool Safety Warnings

22.1 Introduction

This chapter reproduces the pre-formulated, general safety precautions specified in the IEC 62841 standard for hand-held motor-operated electric tools.

STIHL is obliged to publish these texts.

The safety precautions and warnings on avoiding an electric shock given under "Electrical Safety" do not apply to STIHL cordless products.



WARNING

Read all the safety precautions, instructions, illustrations and specifications accompanying this electric power tool. Failure to follow the safety warnings and instructions may result in electric shock, fire and/or serious injury. **Save all safety warnings and instructions for future reference.**

The term "electric power tool" in the safety warnings refers to mains-operated (corded) power tools or battery-operated (cordless) power tools.

22.2 Work area safety

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

22.3 Electrical safety

- a) **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** 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 expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- d) **Do not abuse the cord. Never use the cord for carrying, hanging up, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.
- e) **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord extension suitable for outdoor use reduces the risk of electric shock.
- f) **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.

22.4 Personal safety

- a) **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
- b) **Use personal protective equipment. Always wear eye protection.** Protective equipment such as 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 power tool.** Carrying power tools with your finger on the switch or energizing power tools that have the switch on invites accidents.
- d) **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- e) **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- f) **Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts.** Loose clothes, jewelry or long hair can be caught in moving parts.
- g) **If dust extraction and collection devices can be mounted, they should be connected and used correctly.** Use of dust collection can reduce dust-related hazards.
- h) **Do not be lulled into a false sense of security and do not disregard the safety rules even if you are thoroughly familiar with the electric power tool.** Carelessness can result in serious injuries within fractions of a second.

22.5 Power tool use and care

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

22.6 Battery tool 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 power tools 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 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 tool 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 tool to fire or excessive temperature.** Exposure to fire or temperature above 130 °C (265 °F) may cause explosion.
- g) **Follow all charging instructions and do not charge the battery pack or tool 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.

22.7 Service

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

22.8 Hedge Trimmer Safety Warnings

- **Keep all parts of the body away from the cutting blades. Do not remove cut material or hold material to be cut when blades are moving. Make sure the switch is off when clearing jammed material.** A moment of inattention while operating the hedge trimmer may result in serious personal injury.
- **Carry the hedge trimmer by the handle with the cutting blades stopped. When transporting or storing the hedge trimmer always fit the blade scabbard.** Proper handling of the hedge trimmer will reduce possible personal injury from the cutting blades.
- **Always hold your electric power tool by the insulated handles because the cutting blades may contact hidden electrical wires.** Any blade contact with a live wire may energize metallic parts of the power tool and result in an electric shock.

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