

STIHL®

STIHL BGA 85

Instruction Manual
Manual de instrucciones



! WARNING

Read Instruction Manual thoroughly before use and follow all safety precautions – improper use can cause serious or fatal injury.

! ADVERTENCIA

Antes de usar la máquina lea y siga todas las precauciones de seguridad dadas en el manual de instrucciones – el uso incorrecto puede causar lesiones graves o mortales.



Instruction Manual

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Manual de instrucciones

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Allow only persons who fully understand this manual to operate your blower.

To receive maximum performance and satisfaction from your STIHL blower, it is important that you read, understand and follow the safety precautions and the operating and maintenance instructions in the chapters "Important Safety Instructions" and "Safety Precautions and Working Techniques" before using your blower. For further information you can go to www.stihlusa.com.

Contact your STIHL dealer or the STIHL distributor for your area if you do not understand any of the instructions in this manual.

WARNING

Because a blower is a high-speed battery-powered tool, some special safety precautions must be observed to reduce the risk of personal injury. Careless or improper use may cause serious or even fatal injury.

STIHL®

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Guide to Using this Manual

Pictograms

All the pictograms attached to or embossed on the machine are shown and explained in this manual.

Symbols in Text

Many operating and safety instructions are supported by illustrations.

The individual steps or procedures described in the manual may be marked in different ways:

- A bullet marks a step or procedure.

A description of a step or procedure that refers directly to an illustration may contain item numbers that appear in the illustration. Example:

- Loosen the screw (1).
- Lever (2) ...

In addition to the operating instructions, this manual may contain paragraphs that require your special attention. Such paragraphs are marked with the following symbols and signal words:



DANGER

Indicates an imminent risk of severe or fatal injury.



WARNING

Indicates a hazardous situation which, if not avoided, could result in severe or fatal injury.

NOTICE

Indicates a risk of property damage, including damage to the machine or its individual components.

Engineering Improvements

STIHL's philosophy is to continually improve all of its products. As a result, engineering changes and improvements are made from time to time. Therefore, some changes, modifications and improvements may not be covered in this manual. If the operating characteristics or the appearance of your machine differs from those described in this manual, please contact your STIHL dealer or the STIHL distributor for your area for assistance.

IMPORTANT SAFETY INSTRUCTIONS


When using an electric blower, basic precautions should always be followed, including the following:

READ ALL INSTRUCTIONS BEFORE USING THE STIHL BGA BLOWER, THE BATTERY AND THE CHARGER

WARNING!

To reduce the risk of fire, electric shock, or other injury:

1. Do not leave the blower unattended when the battery is inserted. Remove battery when blower is not in use and before servicing.
2. Avoid Unintentional Starting – Do not carry blower with finger on the trigger switch if the battery pack is installed. Be sure trigger switch is not depressed when inserting the battery pack.
3. Do not expose the blower, battery and charger including plug to rain, use on wet surfaces or handle with wet hands. Store indoors in dry rooms.
4. Use only original STIHL chargers. Use charger only indoors in dry rooms.
5. Do not allow blower to be used as a toy. Keep Children Away – All visitors should be kept at a distance from the work area.

6. Use only as described in this manual. Use only manufacturer's recommended attachments.
7. Do not use with damaged battery. If the blower is not working as it should, has been dropped, damaged, left outdoors, or dropped into water, take it to your STIHL servicing dealer to have it checked before further operation.
8. Do not put any object into openings. Do not use with any opening blocked; keep free of dust, lint, hair, and anything that may reduce air flow.
9. Keep hair, loose clothing, fingers and all parts of body away from openings and moving parts.
10. Turn off all controls before removing the battery.
11. Use extra care when cleaning on stairs.
12. Do not use in areas where flammable or combustible liquids, such as gasoline, may be present.
13. Do not expose battery to fire or incinerate even if it is severely damaged. Battery can explode.
14. Store Idle blower Indoors – When not in use, blower should be stored indoors in a dry, and high, locked place with battery removed and retaining latch on  – out of reach of children.
15. Replacement Parts – When servicing, use only identical STIHL replacement parts.

SAVE THESE INSTRUCTIONS

Safety Precautions and Working Techniques



Because the use of any blower may be dangerous, special safety precautions must be observed to reduce the risk of personal injury.



It is important that you read, fully understand and observe the following safety precautions and warnings. Read the instruction manual and the safety precautions periodically. Careless or improper use may cause serious or fatal injury.

Be thoroughly familiar with the controls and the proper use of the equipment. Know how to stop the unit and disengage the controls quickly.

Have your STIHL dealer show you how to operate your power tool. Observe all applicable local safety regulations, standards and ordinances.

The use of noise emitting power tools may be restricted to certain times by national or local regulations.



WARNING

Do not lend or rent your power tool without the instruction manual. Be sure that anyone using it understands the information contained in this manual.

! WARNING

Use your blower for clearing leaves, twigs, grass, clippings, paper, debris, and dust in yards, gardens, sport stadiums, parks, paths, streets, driveways and parking lots and for similar tasks.


! WARNING

Do not use it for other purposes, since misuse may result in personal injury or property damage, including damage to the machine.


! WARNING

Minors should never be allowed to use a blower. Bystanders, especially children, and animals should not be allowed in the area where a machine is in use.

! WARNING

To reduce the risk of injury to bystanders and damage to property, never let your power tool run unattended. When it is not in use (e.g. during a work break), shut it off and make sure that unauthorized persons do not use it. To do this, move retaining latch to  and remove the battery from the power tool.

Most of these safety precautions and warnings apply to the use of all STIHL blowers. Different models may have different parts and controls. See the appropriate section of your instruction manual for a description of the controls and the function of the parts of your model.

Always remove the battery and move retaining latch to  before transporting, storing or carrying out any work on the power tool. This avoids the risk of the motor starting unintentionally.

Safe use of a blower involves

1. the operator
2. the power tool
3. the use of the power tool.

THE OPERATOR

Physical Condition

You must be in good physical condition and mental health and not under the influence of any substance (drugs, alcohol, etc.) which might impair vision, dexterity or judgment. Do not operate this machine when you are fatigued.

! WARNING

Be alert – if you get tired, take a break. Tiredness may result in loss of control. Working with any power tool can be strenuous. If you have any condition that might be aggravated by strenuous work, check with your doctor before operating this machine.

Proper Clothing

! WARNING

To reduce the risk of injury, the operator should wear proper protective apparel.

! WARNING



To reduce the risk of injury to your eyes never operate your power tool unless wearing goggles or properly fitted protective glasses with adequate top and side protection complying with ANSI Z87 "+" (or your applicable national standard).

STIHL recommends the use of sound barriers (ear plugs or ear muffs) to protect your hearing.



Avoid loose-fitting jackets, scarfs, neckties, jewelry, flared or cuffed pants, unconfined long hair or anything that could be drawn into the air intake. Secure hair so it is above shoulder level.



Good footing is very important. Do not wear sandals, flip-flops or go barefoot.

THE POWER TOOL

For illustrations and definitions of the power tool parts see the chapter on "Main Parts."

! WARNING

Never modify this power tool in any way. Only attachments supplied by STIHL or expressly approved by STIHL for use

with the specific STIHL model are authorized. Although certain unauthorized attachments are useable with STIHL power tools, their use may, in fact, be extremely dangerous.

If this tool is subjected to unusually high loads for which it was not designed (e.g. heavy impact or a fall), always check that it is in good condition before continuing work. Check in particular that the controls and safety devices are working properly. Do not continue operating this machine if it is damaged. In case of doubt, have it checked by your STIHL servicing dealer.

To reduce the risk of injury, do not operate your blower unless it has a properly mounted blower tube.

Battery

WARNING



Risk of fire, explosion and/or burns, including chemical burns. Do not disassemble, crush, heat above 212 °F (100 °C), expose to fire or incinerate. Never expose the battery to microwaves or high pressures.

Do not place the battery on or near fires, stoves or in other high-temperature locations. Do not place the battery in direct sunlight or store it inside a vehicle in hot weather. Doing so may cause the battery to generate heat, rupture or ignite. Using the batteries in this manner may also result in a loss of performance and a shortened battery life.

In case of fire: stay clear of any vapors or gases generated, taking wind direction into account. If possible without danger, remove battery from the vicinity of the fire. In principle, cooling the battery or extinguishing the fire with water is possible. It is preferable to extinguish the fire with a multipurpose dry chemical fire extinguisher. As for any fire, evacuate the area and fight the fire from a safe distance. Once the fire has been extinguished, the area should be monitored (fire watch) in case of a flare-up, until the battery has cooled sufficiently. Restrict access to the area until completion of clean-up. Do not touch the burnt battery or any spilled liquids. Use inert absorbent to absorb spilled liquids.



Use and store the battery only within a temperature range from 14 °F (-10 °C) up to no more than 122 °F (+ 50 °C). Protect the battery from direct sunlight.

WARNING

Use STIHL batteries only with STIHL power tools, and charge them only with STIHL chargers. Replace battery with STIHL battery only. Use only genuine STIHL rechargeable batteries.

Charge the battery before use.



Do not immerse the battery in fluids.

WARNING

Do not open, drop, hit or damage battery. Never insert objects into the battery's cooling slots, since they may damage the battery. The battery contains safety features and devices which, if damaged, may cause the battery to generate heat, rupture or ignite. Never use or charge a defective, damaged, cracked or deformed battery.

Immediately discontinue use of the battery if, while using, charging or storing, it emits an unusual smell, feels hot or appears abnormal in any other way.

WARNING

Fluid may leak from the battery if it is damaged or is not used properly – avoid contact with the skin! Leaking battery fluid can cause skin irritation and chemical burns. In the event of accidental contact, immediately rinse thoroughly with mild soap and water. If fluid gets into your eye(s), do not rub your eye(s) but rinse water over the open eye(s) for 15 minutes at least. Also seek medical attention immediately.

WARNING

Never bridge (short circuit) the battery terminals with metallic objects, since this may damage the battery and possibly cause a fire. Keep a battery that is not in use away from metal objects (e.g. nails, coins, jewelry). Do not use metal containers for transporting batteries.

Store the battery out of reach of children in a cool and dry area away from direct sunlight and excess heat or cold (14 °F – 122 °F (-10 °C – +50 °C)).

Charger

Use only original STIHL chargers.

Use only for charging geometrically matching STIHL batteries with a maximum capacity of 50 Ah and a maximum voltage of 42 V.

Never charge defective, leaking or deformed batteries.

Connect the charger only to a power supply with the voltage and frequency specified on the rating plate. Always plug the charger into a properly installed wall outlet. Do not use an extension cord unless absolutely necessary (see below).

Never use a charger with damaged housing, damaged power supply cord or damaged plug. Do not operate the charger if it has received a sharp blow, been dropped or otherwise damaged in any way.

Do not open or disassemble charger – there are no user serviceable parts inside.

Store charger out of the reach of children.



Protect the charger from rain and dampness. Keep charger dry.



Use and store charger only indoors in dry rooms.

Operate charger at temperatures between 41 °F (5 °C) and 104 °F (40 °C).

Allow the charger to cool down normally – do not cover it.

Never bridge the contacts of the charger with metallic objects (e.g. nails, coins, jewelry) – short circuit. The charger will be damaged by a short circuit.

In the event of smoke or fire in the charger, disconnect it from outlet immediately.



WARNING

To reduce the risk of electric shock or short circuit, do not insert any objects into the charger's cooling slots.



WARNING

The charger heats up during the charging process. Do not operate on an easily combustible surface (e.g. paper, cardboard, textiles) or in an easily combustible environment – risk of fire.



WARNING

Do not operate in a hazardous location, i.e. in a location where there are combustible liquids (fumes), vapors or dusts. Chargers can produce sparks, which may ignite the dust or vapors – risk of explosion.



Check the charger's power supply cord and plug regularly for damage. If the power supply cord or plug is damaged, immediately disconnect the plug from the wall outlet to avoid the risk of electric shock.

Never jerk the power supply cord to disconnect it from the wall outlet. To unplug, grasp the plug, not the cord. Have a damaged power supply cord repaired by an experienced electrician.

Do not use the power supply cord for any other purpose, e.g. for carrying or hanging up the charger.

Never use power supply cords that do not comply with regulations.

Make sure the power supply cord is located and/or marked so that it will not be stepped on, tripped over, come in contact with sharp edges or moving parts or otherwise be subjected to damage or stress.

An extension cord should not be used unless absolutely necessary. If an extension cord must be used, plug the charger into a properly wired 16 gauge (AWG 16) or heavier gauge extension cord with blades that are the same number, size and shapes as the blades on the charger.

To reduce the risk of electric shock:

- Always connect the unit to a properly installed wall outlet.
- Make sure the insulation of the power supply cord and plug is in good condition.


Unplug the power supply cord from the outlet when charger is not in use.

Never store a battery in the charger.

THE USE OF THE POWER TOOL

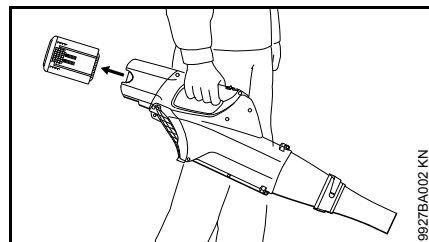
Transporting the Unit

! WARNING

Always switch off the power tool, move retaining latch to  and remove the battery – even when you carry the unit for short distances. When transporting it in a vehicle, properly secure the power tool to prevent turnover and damage.



Remove the battery from the power tool. This avoids the risk of the motor starting unintentionally.




Carry the machine by the control handle.

Before Starting Work

! WARNING

Always check your power tool for proper condition and operation before starting, particularly the trigger switch, trigger switch lockout and retaining latch. The trigger switch and the trigger switch

lockout must move freely and always spring back to the idle position (retaining latch on ). Never attempt to modify the controls or safety devices.

! WARNING

Never operate your power tool if it is damaged, improperly adjusted or maintained, or not completely or securely assembled.

! WARNING

A worn impeller housing (cracks, nicks, chips) may result in an increased risk of injury from thrown foreign objects. If the impeller housing is damaged, consult your dealer. STIHL recommends you contact a STIHL servicing dealer.

Keep the handle clean and dry at all times; it is particularly important to keep it free of moisture, pitch, oil, grease or resin in order for you to maintain a firm grip and properly control your power tool.

Check contacts in battery compartment for foreign matter. Keep clean.

Fit the battery correctly – it must engage audibly.

For starting, see chapter on "Switching On".

! WARNING

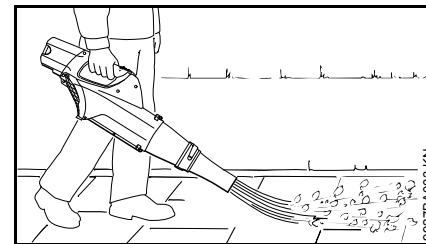
Your power tool is a one-person machine. Do not allow other persons in the general work area, even when starting.

During Operation

Holding and Controlling the Power Tool

! WARNING

To reduce the risk of injury from loss of control, never work on a ladder, in a tree or any other insecure support. Never hold the machine above shoulder height.



The blower is designed for single-handed operation with either the right or left hand on the control handle.

When working with the blower, always wrap your fingers tightly around the handle, keeping the control handle cradled between your thumb and forefinger. Keep your hand in this position to have your machine under control at all times.

To reduce the risk of stumbling and loss of control, do not walk backward while operating the machine.

Special care must be taken in slippery conditions (wet ground, snow) and in difficult, overgrown terrain. Watch for hidden obstacles such as tree stumps, roots and ditches to avoid stumbling. For better footing, clear away fallen branches, scrub and cuttings. Be extremely cautious when working on slopes or uneven ground.

Working Conditions

WARNING

Operate your machine outdoors under good visibility and daylight conditions only. Work carefully.



The motor is not water-proof. Never work with the power tool in the rain or in wet or very damp locations.

Do not leave the machine outdoors in the rain.

WARNING

Static electricity may build-up while blow-sweeping large quantities of very dusty material and suddenly discharge in certain unfavorable conditions (e.g. very dry work area).

WARNING

Inhalation of certain dusts, especially organic dusts such as mold or pollen, can cause susceptible persons to have an allergic or asthmatic reaction. Substantial or repeated inhalation of dust and other airborne contaminants, in particular those with a smaller particle size, may cause respiratory or other illnesses. Control dust at the source where possible. Use good work practices, such as operating the unit so that the wind or operating process directs any dust raised by the power tool away from the operator. Follow the recommendations of EPA / OSHA / NIOSH and occupational and trade associations with respect to dust ("particulate matter"). When the

inhalation of dust cannot be substantially controlled, i.e., kept at or near the ambient (background) level, the operator and any bystanders should wear a respirator approved by NIOSH / MSHA for the type of dust encountered.

WARNING

If the substance being blown is a commercial substance, review, understand and follow all warnings and instructions contained on the label and in the material safety data sheet for that substance and/or consult the material manufacturer/supplier. The state of California and some other authorities, for instance, have published lists of substances known to cause cancer, reproductive toxicity, etc.

WARNING

Breathing asbestos dust is dangerous and can cause severe or fatal illness, respiratory illness or cancer. The use and disposal of asbestos-containing products have been strictly regulated by OSHA and the Environmental Protection Agency. If you have any reason to believe that you might be blowing or otherwise disturbing asbestos, immediately contact EPA, your employer or a local OSHA representative.

WARNING


Dust with silica in its composition may contain crystalline silica. Silica is a basic component of sand, quartz, brick, clay, granite and numerous other minerals and rocks, including masonry and concrete products. Repeated and/or substantial inhalation of airborne

crystalline silica can cause serious or fatal respiratory disease, including silicosis. In addition, the state of California and some other authorities have listed respirable crystalline silica as a substance known to cause cancer. When encountering such materials, always follow the respiratory precautions mentioned above.

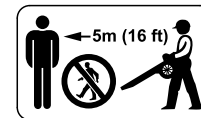
Pay attention to the direction of the wind, i.e., do not work against the wind.

Operating Instructions

WARNING

In the event of an emergency, switch off the motor immediately, move retaining latch to  and remove the battery.

WARNING



In order to reduce the risk of personal or even fatal injury to bystanders from blown objects keep bystanders at least 16 feet (5 m) away when the power tool is running.

To reduce the risk of damage to property, also maintain this distance from such objects as vehicles or windows.

Be particularly alert and cautious when wearing hearing protection because your ability to hear warnings (shouts, alarms, etc.) is restricted.

Switch off the motor immediately if you are approached.

! WARNING

To reduce the risk of personal injury, do not direct air blast towards bystanders, since the high pressure of the air flow can injure eyes and can blow small objects at great speed. Do not direct airblast towards pets.

When working in open ground and gardens, watch out for small animals to avoid harming them.

! WARNING

Always switch off the motor before cleaning or servicing the unit or replacing parts. The blower fan between the air intake and output openings rotates whenever the motor is running. In order to reduce the risk of injury from contact with the blower fan, never operate your blower without a properly mounted blower tube or with a damaged intake screen.

! WARNING

Never insert any foreign object into the air intake of the machine or into the nozzle of the blower. It will damage the blower fan and may cause serious injury to the operator or bystanders as a result of the object or broken parts being thrown out at high speed.

Do not place the blower on the ground when operating at high speed, because small objects such as sand, grass, dust, etc. may be pulled into the air intake and damage the fan wheel. It is best to turn the machine off when putting it on the ground.

After Finishing Work

Always clean dust and dirt off the power tool – do not use any grease solvents for this purpose.

MAINTENANCE, REPAIR AND STORING


If you make a warranty claim for a component which has not been serviced or maintained properly or if nonapproved replacement parts were used, STIHL may deny coverage.

! WARNING

Use only identical STIHL replacement parts for maintenance and repair. Use of non-STIHL parts may cause serious or fatal injury.

Strictly follow the maintenance and repair instructions in the appropriate section of your instruction manual. Please also refer to the maintenance chart in the manual.



Always switch off the motor, move retaining latch to  and remove the battery from the power tool before carrying out any repairs or maintenance work or cleaning the power tool. This avoids the risk of the motor starting unintentionally.

! WARNING

Do not attempt any maintenance or repair work not described in your instruction manual. Have such work performed by your STIHL servicing dealer only.

Tighten all nuts, bolts and screws after each use.

Regularly check the electrical contacts and ensure that the insulation of the power cord and plug of the charger is in good condition and shows no sign of aging (brittleness).


Electrical components, e.g. power cord of charger, may only be repaired or replaced by a qualified electrician.

Clean plastic components with a cloth. Do not use aggressive detergents. They may damage the plastic.

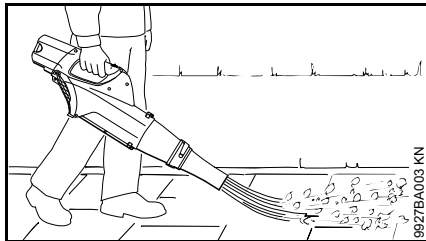
Do not spray the machine with water or other liquid.

Do not clean your machine with a pressure washer. The solid jet of water may damage parts of the machine.

Keep the battery guides free from foreign matter – clean as necessary.

Store the power tool in a dry, locked location with the retaining latch on , the battery removed and out of reach of children.

Using the Unit



Your blower is designed for one-handed operation. It can be carried by the control handle in either the right or left hand.

Always hold the power tool firmly in your hand.

Watch out for small animals when blow-sweeping in open areas, yards and gardens.

Nozzles

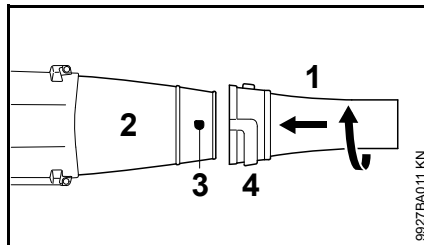
WARNING

To reduce the risk of injury, operate the unit only with a properly mounted nozzle.

The round nozzle is particularly suitable for use on uneven surfaces (e.g. fields and lawns).

The fan nozzle (special accessory) produces a broad and powerful airstream at ground level. It can be aimed and controlled very accurately. This nozzle is highly effective for blow-sweeping sawdust, leaves, grass cuttings and similar materials from flat surfaces.

Mounting the nozzle

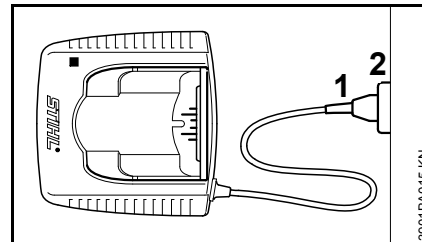


- Push the nozzle (1) onto the blower tube (2) – the lug (3) must engage the groove (4).
- Lock the nozzle (1) by rotating it in the direction of the arrow as far as the stop.

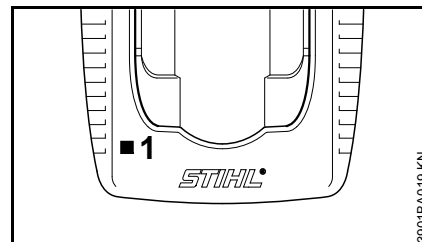
Remove the nozzle in the reverse sequence.

Connecting Charger to Power Supply

Power supply (mains) voltage and operating voltage must be the same.



- Insert the plug (1) in the wall outlet (2).



A self test is performed after the charger is connected to the power supply. During this process, the light emitting diode (1) on the charger lights up green for about 1 second, then red and goes off again.

Charging the Battery

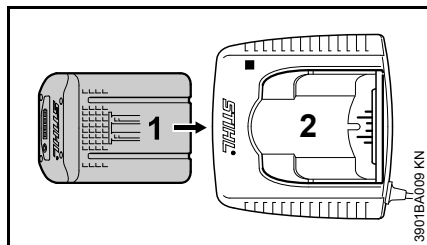
A factory-new battery is not fully charged.

Recommendation: Fully charge the battery before using it for the first time.

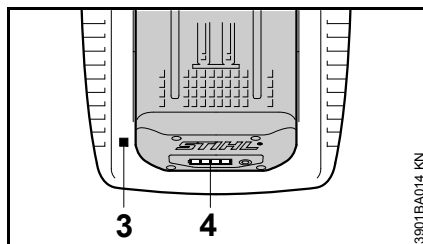
- Connect the charger to the power supply – mains voltage and operating voltage of the charger must be the same – see "Connecting Charger to Power Supply".

Operate the charger only in enclosed and dry rooms at ambient temperatures between +5°C to +40°C (+41°F to +104°F)

Only charge dry batteries. Allow a damp battery to dry before charging.



- Push the battery (1) into the charger (2) until noticeable resistance is felt – then push it as far as stop.



The LED (3) on the charger comes on when the battery is inserted – see "LED on Charger"

Charging begins as soon as the LEDs (4) on the battery glow green – see "LEDs on Battery".

The charge time is dependent on a number of factors, including battery condition, ambient temperature, etc., and may therefore vary from the times specified.

The battery heats up during operation in the power tool. If a hot battery is inserted in the charger, it may be necessary to cool it down before charging. The charging process begins only after the battery has cooled down. The time required for cooling may prolong the charge time.

The battery and charger heat up during the charging process.

AL 300, AL 500 Chargers

The AL 300 and AL 500 chargers are equipped with a battery cooling fan

AL 100 Charger

The AL 100 charger has no fan and waits for the battery to cool down before starting the charging process. The battery is cooled by heat transfer to the ambient air.

End of Charge

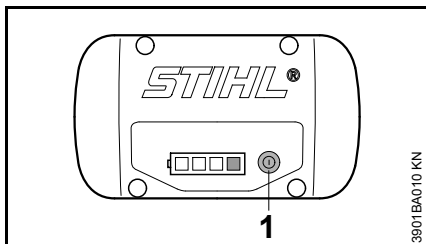
The charger switches itself off automatically when the battery is fully charged:

- LEDs on the battery go off.
- The LED on the charger goes off.
- The charger's fan is switched off (if charger is so equipped)

Remove the fully charged battery from the charger.

LEDs on Battery

Four LEDs show the battery's state of charge and any problems that occur on the battery or power tool.



- Press button (1) to activate the display – the display goes off automatically after 5 seconds.

The LEDs can glow or flash green or red.



LED glows continuously green.



LED flashes green.



LED glows continuously red.

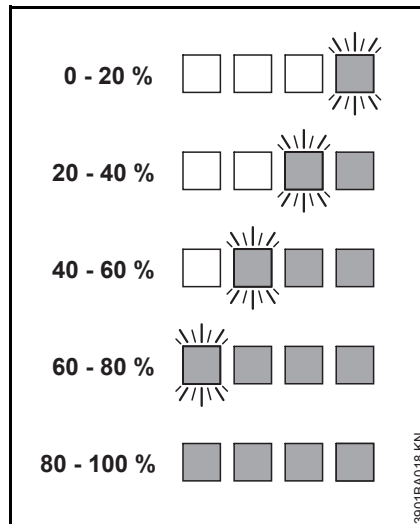


LED flashes red.

During Charging Process

The LEDs glow continuously or flash to indicate the progress of charge.

A green flashing LED indicates the capacity that is currently being charged.

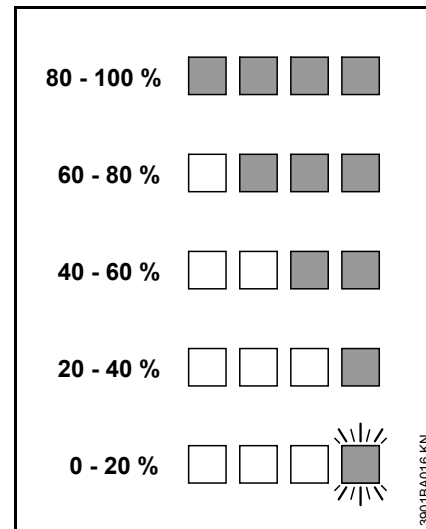


The light emitting diodes on the battery go off automatically when the charge process is completed.

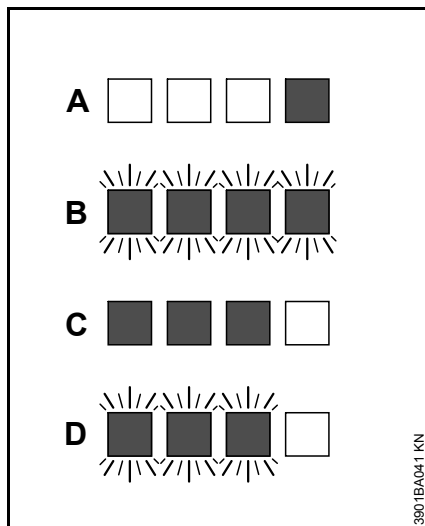
If the LEDs on the battery flash or glow red – see "If the red LEDs glow continuously / flash".

During Operation

The green LEDs glow continuously or flash to indicate the state of charge.



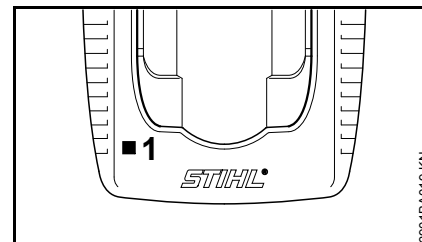
If the LEDs on the battery flash or glow red – see "If the red LEDs glow continuously / flash".

If the red LEDs glow continuously / flash

A	1 LED glows continuously red:	Battery is too hot ¹⁾ 2)/cold ¹⁾
B	4 LEDs flash red	Malfunction in battery ³⁾
C	3 LEDs glow continuously red:	Power tool is too hot – allow it to cool down.
D	3 LEDs flash red	Malfunction in power tool ⁴⁾

- 1) When charging: Charge process starts automatically after the battery has cooled down / warmed up.
- 2) During operation: Power tool cuts out – allow battery to cool down; it may be necessary to take the battery out of the power tool for this purpose.

- 3) Electromagnetic interference or fault. Take the battery out of the power tool and refit it. Switch on the machine – if the LEDs continue to flash, the battery has a malfunction and must be replaced.
- 4) Electromagnetic interference or fault. Take the battery out of the machine. Use a blunt tool to remove dirt from the contacts in the battery compartment. Refit the battery. Switch on the power tool – if the light emitting diodes still flash, the power tool is faulty and must be checked by a servicing dealer – STIHL recommends an authorized STIHL servicing dealer.

LED on Charger

The LED (1) on the charger may glow continuously green or flash red.

Green continuous light ...

... indicates the following:

The battery

- is being charged
- is too hot and must cool down before charging

See also "LEDs on battery".

The green LED on the charger goes off as soon as the battery is fully charged.

Red flashing light ...

... may indicate the following:

- No electrical contact between battery and charger – remove and refit the battery
- Malfunction in battery – see also "LEDs on Battery".
- Malfunction in charger – have checked by a servicing dealer. STIHL recommends an authorized STIHL servicing dealer.

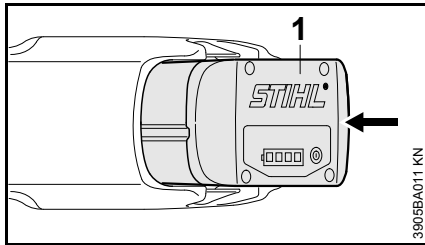
Switching On

The starter battery of a factory-new machine is not fully charged.

Recommendation: Fully charge the battery before using it for the first time.

- If necessary, remove the cover from the battery compartment before fitting the battery, i.e. depress both locking tabs to unlock and remove the cover.

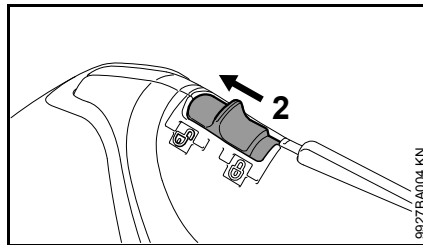
Fitting the Battery




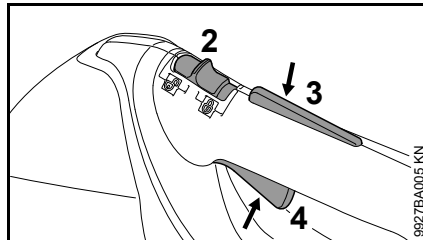
- Insert the battery (1) in the power tool – the battery slides into the compartment – press it down carefully until it snaps into position – the battery must be flush with the top of the housing.

Switching on the Machine


- Make sure you have a secure and firm footing.
- Stand upright – hold the power tool in a relaxed position.



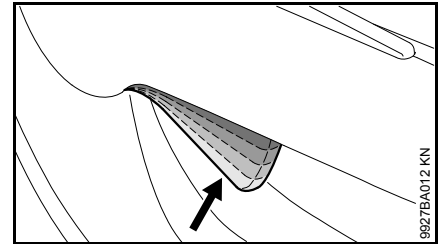
- Unlock the power tool by moving the retaining latch (2) to .



- Push down the trigger switch lockout (3) and depress the trigger switch (4) and hold them in that position.

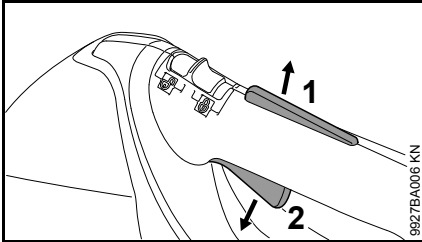
The motor runs only if the retaining latch (2) is on  and the trigger switch lockout (3) and trigger switch (4) are operated simultaneously.

Trigger

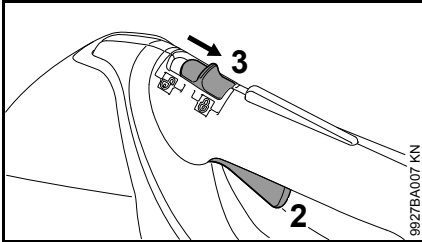



Motor speed can be controlled with the trigger switch. Depress the trigger switch to accelerate the motor.

Switching Off



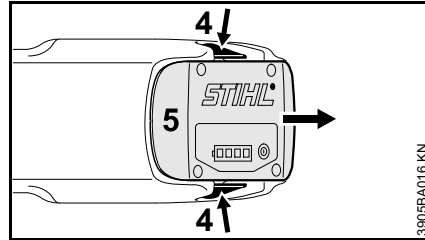
- Release the trigger switch lockout (1) and the trigger switch (2).



- Move the retaining latch (3) to  – the trigger switch (2) cannot be operated – the power tool is locked to prevent start-up.

Always remove the battery from the power tool during work breaks and after finishing work.

Remove the battery.




- Press in both locking tabs (4) at the same time to unlock the battery (5).
- Take the battery (5) out of the housing.

When the power tool is not in use, shut it off so that it does not endanger others.

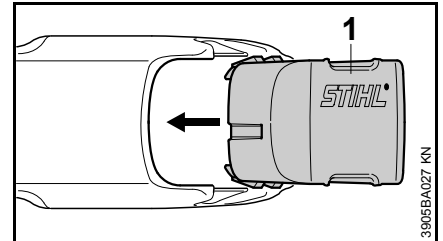
Secure it against unauthorized use.

Storing the Machine

- Move the retaining latch to .
- Remove the battery.
- Thoroughly clean the machine.
- Store the machine in a dry and secure location out of the reach of children and other unauthorized persons.

Cover for Battery Compartment

In some markets the machine comes with a cover for the battery compartment. It protects the battery compartment from contamination.



- After finishing work, slide the cover (1) home until it engages audibly in position.

Storing the Battery

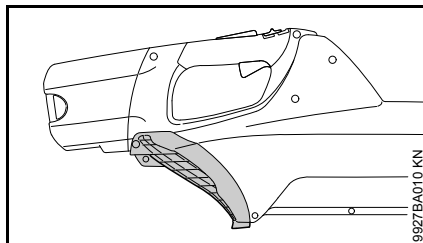
- Take the battery out of the power tool or the charger.
- Store indoors in a dry and safe location. Keep out of the reach of children and other unauthorized persons and protected from contamination.
- Do not store spare batteries unused – use in rotation.

To optimize the life of the battery, store it at a state of charge of about 30%.

Storing the Charger

- Remove the battery.
- Disconnect the plug from the wall outlet.
- Store the charger indoors in a dry and secure location. Keep out of the reach of children and other unauthorized persons and protected from contamination.


Inspection and Maintenance by User



- Inspect the intake screen for damage before and after each use – have a damaged intake screen replaced by your servicing dealer¹⁾.
- Carefully clean a dirty intake screen with a soft brush whenever required.

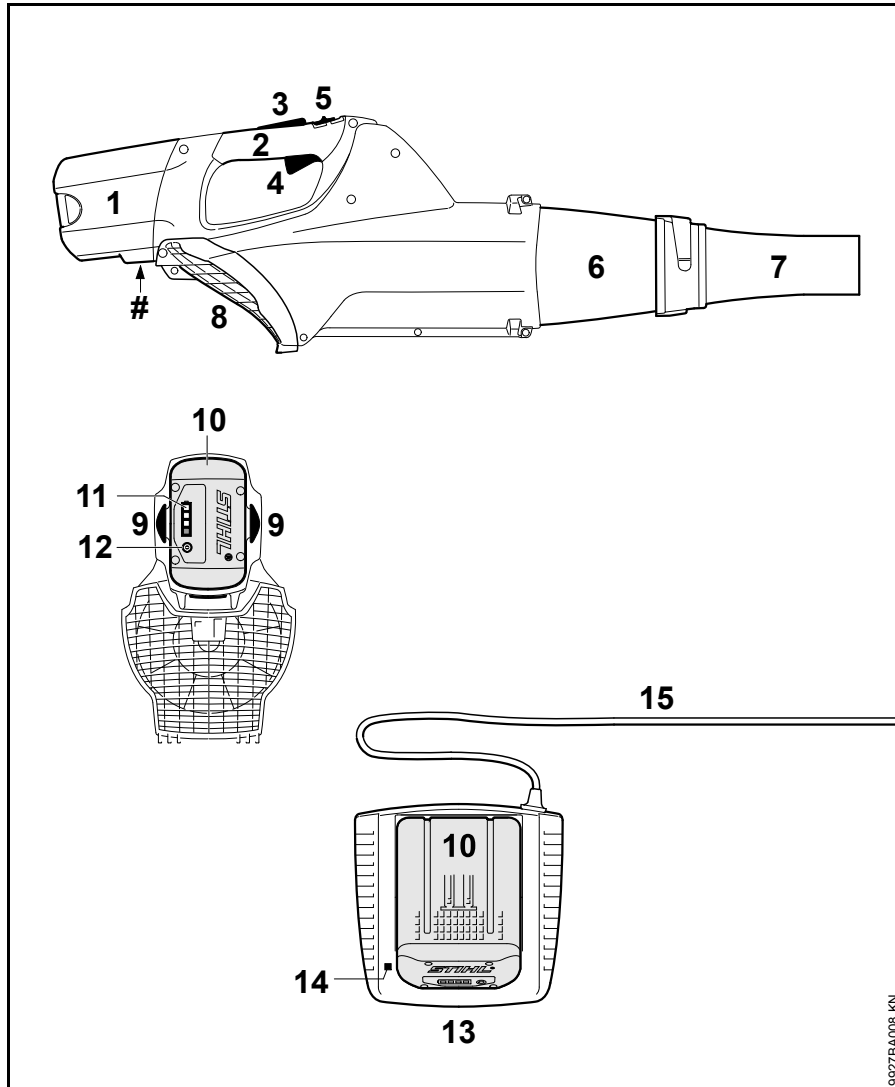
¹⁾ STIHL recommends a STIHL servicing dealer.

Maintenance and Care

The following intervals apply to normal operating conditions only. If your daily working time is longer or operating conditions are difficult (very dusty work area, etc.), shorten the specified intervals accordingly. Move the retaining latch to  before performing any work on the power tool.		before starting work	after finishing work or daily	weekly	monthly	every 12 months	if problem	if damaged	if required
Complete machine	Visual inspection (condition)	X							
	Clean		X						
Controls (retaining latch, trigger switch lockout, trigger switch)	Check operation	X							
	Clean		X						X
Intake screen	Visual inspection (condition)	X	X						
	Clean								X
	Have replaced by dealer ¹⁾							X	
All accessible screws and nuts	Retighten								X
Battery	Visual inspection	X					X	X	
Battery compartment	Clean	X							X
	Check operation (eject battery)	X							
Safety labels	Replace							X	

¹⁾ STIHL recommends a STIHL servicing dealer.

Main Parts



- 1 Battery Compartment
- 2 Control Handle
- 3 Trigger Switch Lockout
- 4 Trigger Switch
- 5 Retaining Latch
- 6 Blower Tube
- 7 Nozzle
- 8 Intake Screen
- 9 Battery Locking Tabs
- 10 Battery
- 11 Light Emitting Diodes (LEDs) on Battery
- 12 Push Button
- 13 Charger
- 14 Light Emitting Diode (LED) on Charger
- 15 Power Supply Cord
- # Serial Number

9927BA008 KN

Definitions

1. **Battery Compartment**
Accommodates the battery in the unit.
2. **Control Handle**
The handle of the blower held by the operator's hand.
3. **Trigger Switch Lockout**
Must be depressed before the trigger switch can be activated.
4. **Trigger Switch**
Switches the motor on and off and controls the speed of the motor.
5. **Retaining Latch**
Locks or unlocks the trigger switch.
6. **Blower Tube**
Directs airstream.
7. **Nozzle**
Mounted on blower tube, directs airstream.
8. **Intake Screen**
Fits over the intake opening and reduces the risk of direct contact with the axial fan, which is located under the screen.
9. **Battery Locking Tabs**
Secure the battery in the unit.
10. **Battery**
Supplies the motor with electrical power.
11. **Light Emitting Diodes (LEDs) on Battery**
Indicate the state of charge and operating condition of the battery.

12. **Push Button**
For activating light emitting diodes (LED) on battery.
13. **Charger**
Charges the battery.
14. **Light Emitting Diode (LED) on Charger**
Indicates charger operating mode and certain problems.
15. **Power Supply Cord**
Supplies electric current to charger.

Specifications

Battery

Type: Lithium-ion

Category: AP, AR

The machine may be operated only with original STIHL rechargeable batteries.

Running time is dependent on the energy content of the battery.

Charger

AL 100

Power supply: 120 V / 60 Hz

Rated current: 1.3 A

Power consumption: 75 W

Charge current: 1.6 A

Insulation: II,  (double insulated)

AL 300

Power supply: 120 V / 60 Hz

Rated current: 4.7 A

Power consumption: 330 W

Charge current: 6.5 A

Insulation: II,  (double insulated)

AL 500

Power supply: 120 V / 60 Hz

Rated current: 4.8 A

Power consumption: 570 W

Charge current: 12 A

Insulation: II,  (double insulated)

Charge Times

AL 100

with AP 80:

- up to 80 % capacity: 70 min
- up to 100 % capacity: 100 min

with AP 115:

- up to 80 % capacity: 110 min
- up to 100 % capacity: 140 min

with AP 160:

- up to 80 % capacity: 150 min
- up to 100 % capacity: 165 min

with AP 180:

- up to 80 % capacity: 160 min
- up to 100 % capacity: 210 min

AL 300

with AP 80:

- up to 80 % capacity: 25 min
- up to 100 % capacity: 50 min

with AP 115:

- up to 80 % capacity: 25 min
- up to 100 % capacity: 55 min

with AP 160:

- up to 80 % capacity: 35 min
- up to 100 % capacity: 60 min

with AP 180:

- up to 80 % capacity: 40 min
- up to 100 % capacity: 70 min

AL 500

with AP 80:

- up to 80 % capacity: 25 min
- up to 100 % capacity: 50 min

with AP 115:

- up to 80 % capacity: 20 min
- up to 100 % capacity: 25 min

with AP 160:

- up to 80 % capacity: 35 min
- up to 100 % capacity: 60 min

with AP 180:

- up to 80 % capacity: 25 min
- up to 100 % capacity: 30 min

Maximum air flow rate

with round nozzle 383 cf/min
(650 m³/h)with fan nozzle 421 cf/min
(715 m³/h)without nozzle 497 cf/min
(845 m³/h)**Air velocity**

with round nozzle 103 mph
(46 m/s)with fan nozzle 101 mph
(45 m/s)**Dimensions**

Length	38.9 in (987 mm)
Height	11.2 in (285 mm)
Depth	6.6 in (167 mm)

Weight

without battery	7.1 lbs (3.2 kg)
-----------------	---------------------

Type

Blower, household type

Transporting batteries

STIHL batteries comply with the requirements set forth in UN-Manual ST/SG/AC.10/11/Rev.5/Part III, Subsection 38.3.

Commercial air, vessel and ground transportation of lithium ion cells and batteries is regulated. The battery is classified as a UN3091, Class 9, packaging group 2 product. Shipping it, either as a complete tool or the battery, requires compliance with all applicable shipping regulations. Check with the ground, vessel, air cargo or passenger airline to determine if transport is prohibited or subject to restrictions or exemptions prior to shipping or travel.

Normally, no further conditions have to be fulfilled by the user to transport STIHL batteries by road to the power

tool's operating site. Check and comply with any special regulations that may apply to your situation.

FCC 15 Compliance Statement for power tool and charger

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- this device may not cause harmful interference.
- this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- reorient or relocate the receiving antenna,
- increase the separation between the equipment and receiver,

- connect the equipment into an outlet on a circuit different from that to which the receiver is connected,
- consult the dealer or an experienced radio/TV technician for help.

Do not change or modify this product in any way unless specifically allowed in this manual, since this could void your authority to operate it.

Troubleshooting

Always remove the battery before carrying out any work on the power tool.

Condition	Cause	Remedy
Machine does not start when switched on	No electrical contact between power tool and battery	Remove the battery, visually check contacts and refit battery
	Battery has low charge (1 LED on battery flashes green)	Charge the battery
	Battery too hot / too cold (1 LED on battery glows red)	Allow battery to cool down / at temperatures of about 60°F - 70°F (15°C - 20°C), allow battery to warm up slowly
	Fault in battery (4 LEDs on battery flash red)	Take the battery out of the power tool and refit it. Switch on the machine – if the LEDs continue to flash, the battery has a malfunction and must be replaced.
	Power tool too hot (3 LEDs on battery glow red)	Allow power tool to cool down
	Fault in machine (3 LEDs on battery flash red)	Take the battery out of the power tool and refit it. Switch on the power tool – if the LEDs still flash, the power tool has a malfunction and must be checked by a servicing dealer ¹⁾ .
	Moisture in power tool and/or battery	Allow power tool / battery to dry

Always remove the battery before carrying out any work on the power tool.


Condition	Cause	Remedy
Machine cuts out during operation	Battery or machine's electronics too hot	Take battery out of machine, allow battery and machine to cool down
	Electrical fault	Remove the battery and refit it
Runtime is too short	Battery not fully charged	Charge the battery
	Useful life of battery has been reached or exceeded	Check battery ¹⁾ and replace
Battery jams when being inserted in power tool / charger	Guides / contacts dirty	Carefully clean the guides / contacts
Battery is not being charged even though LED on charger glows green	Battery too hot / too cold (1 LED on battery glows red)	Allow battery to cool down / at temperatures of about 60°F - 70°F (15°C - 20°C), allow battery to warm up slowly Operate charger only in closed, dry rooms at ambient temperatures of 40°F - 105°F (5°C - 40°C)
LED on charger flashes red	No electrical contact between charger and battery	Remove the battery and refit it
	Fault in battery (4 LEDs on battery flash red for about 5 seconds)	Take the battery out of the power tool and refit it. Switch on the machine – if the LEDs continue to flash, the battery has a malfunction and must be replaced.
	Fault in charger	Have charger checked by servicing dealer ¹⁾

¹⁾ STIHL recommends an authorized STIHL servicing dealer.

Maintenance and Repairs

Users of this unit should carry out only the maintenance operations described in this manual. STIHL recommends that other repair work be performed only by authorized STIHL servicing dealers.

Warranty claims following repairs can be accepted only if the repair has been performed by an authorized STIHL servicing dealer using genuine STIHL replacement parts.

Genuine STIHL parts can be identified by the STIHL part number, the **STIHL** logo and, in some cases, by the STIHL parts symbol . The symbol may appear alone on small parts.

Battery Recycling

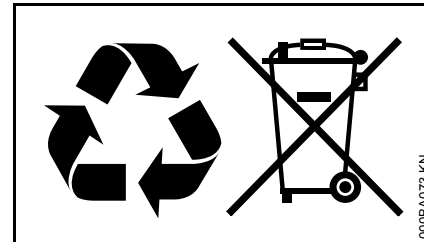
Battery Recycling Information



STIHL is committed to the development of products that are environmentally responsible. This commitment does not stop when the product leaves the STIHL dealer. STIHL has partnered with the RBRC (Rechargeable Battery Recycling Corporation) to promote the collection and recycling of spent STIHL lithium ion batteries in the United States and Canada. The RBRC seal can be found on every STIHL rechargeable battery and indicates that STIHL has prepaid for recycling the battery. The seal has a toll free phone number (1-800-822-8837) that connects you to information on battery recycling locations and information on battery disposal bans or restrictions in your area. You can also return your spent battery to any STIHL authorized servicing dealer for recycling free of charge.

Disposal

Observe all country-specific waste disposal rules and regulations.



STIHL products must not be thrown in the garbage can. Take the product, accessories and packaging to an approved disposal site for environment-friendly recycling.

Contact your STIHL servicing dealer for the latest information on waste disposal.

Trademarks

STIHL Registered Trademarks

STIHL®

STIHL®



The color combination orange-grey
(U.S. Registrations #2,821,860;
#3,010,057, #3,010,058, #3,400,477;
and #3,400,476)



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EASYSTART®

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