

BRA 500.0 B, 600.0 B

STIHL



2 - 29

Instruction Manual



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.



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1 Introduction

Thank you for your purchase. The information contained in this manual will help you receive maximum performance and satisfaction from your blower and, if followed, reduce the risk of injury during its use.

SAVE THIS MANUAL!



Because a blower is a high-speed battery-powered tool, special safety precautions must be observed to reduce the risk of personal injury.



Read this instruction manual thoroughly before use and periodically thereafter. Follow all safety precautions. Careless or improper use of the blower can cause serious or fatal injury.

Do not lend or rent the blower without this instruction manual. Allow only persons who fully understand the information in this manual to operate the blower.

For further information, or if you do not understand any of the instructions in this manual, please go to www.stihlusa.com (for Canada: www.stihl.ca) or contact your authorized STIHL servicing dealer.

2 Guide to Using this Manual

2.1 Signal Words

This manual contains safety information that requires your special attention. Such information is introduced with the following symbols and signal words:



DANGER

- Indicates a hazardous situation which, if not avoided, will result in death or serious injury.



WARNING

- Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

NOTICE

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

2.2 Symbols in Text

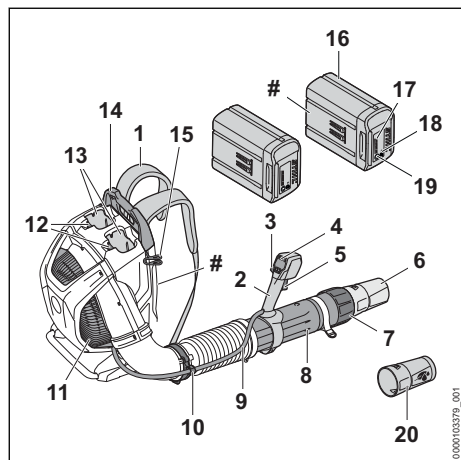
The following symbol is included to assist you with the use of the manual:



Refers to a designated chapter or subchapter in this instruction manual.

3 Main Parts

3.1 Blower and Batteries



- 1 Harness**
For carrying the blower.
- 2 Control Handle**
Handle for the operator's right hand.
- 3 Power Hold Button**
Holds the selected blowing force.
- 4 Operating Unit,  3.2**
The operating unit (HMI) is used to select the power levels. It also displays the batteries level and any active faults.
- 5 Trigger Switch**
Switches the motor on and off.
- 6 Volume Nozzle**
Directs and concentrates the airstream.
- 7 Union Nut**
Allows simple adjustment of blower tube length.
- 8 Blower Tube**
Directs the airstream.
- 9 Cable**
For connecting the trigger switch to the motor.
- 10 Elbow Clamp**
For securing the cable in position.
- 11 Intake Screen**
Covers the air intake opening and reduces risk of contact with the blower fan.
- 12 Locking Lever**
Secures the batteries in the battery compartment.

13 Battery Compartment

Holds the batteries.

14 Carrying Handle

For lifting and transporting the blower.

15 Hook

Secures the nozzle to the blower when transporting or storing.

16 Battery

Supplies electrical power to the motor.

17 Battery LEDs

Indicate the battery's state of charge and display error messages regarding potential malfunctions in the battery or power tool.

18 "BLUETOOTH®" LED (only for batteries with)

Indicates whether the Bluetooth® interface is enabled or disabled.

19 Push Button

Activates the battery's LEDs. Activates and deactivates the Bluetooth® interface (if applicable).

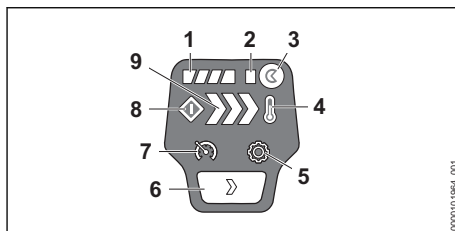
20 Air Speed Nozzle

Directs and concentrates the airstream. Suitable for heavy and wet blowing due to the increased airflow.

Rating Plate

Contains electrical information and the product's serial number.

3.2 Operating Unit



1 Battery Charge Status Indicator

When the trigger switch is pressed, the LEDs indicate the charge status of the battery with the lower battery charge.

2 "BLUETOOTH®" LED

Indicates whether the Bluetooth® interface is enabled or disabled.

3 "BLUETOOTH®" Push Button

Activates and deactivates the Bluetooth® interface (if applicable).

- 4 Overheating Indicator**
Shows overheating of the blower
- 5 Custom Settings LED**
Indicates that individualization through the STIHL Connected App has been activated.
- 6 Power Level Selector**
For selecting the power level.
- 7 Power Hold LED**
Indicates that the power hold has been activated.
- 8 Fault Indicator**
Shows faults in the blower.
- 9 Power Level LEDs**
Indicate the blower's power level.

4 Safety Symbols on the Products

4.1 Blower

The following safety symbols are found on the blower.



To reduce the risk of injury, follow the specified safety precautions.



Read and follow all safety precautions in the instruction manual. Improper use can lead to serious or fatal personal injury or property damage.



To reduce the risk of eye injury, always wear proper eye protection. Power tool noise may damage your hearing. Always wear proper sound barriers (ear plugs or ear muffs) to protect your hearing, 6.4.



To reduce the risk of personal injury from blown objects, never direct the air flow toward bystanders or pets, 6.6.4.



To reduce the risk of personal injury, keep hair and loose-fitting clothing away from the air intake, 6.4.



To reduce the risk of injury or property damage from unintended activation, remove the batteries any time the blower is not in use, 8.1.



To reduce the risk of personal injury from high velocity air flow and blown objects, keep bystanders at least 50 ft. (15 m) away, 6.6.4.

4.2 Batteries

The following safety symbols are found on AP series batteries:



To reduce the risk of injury, follow the specified safety precautions.



Read and follow all safety precautions in the battery's instruction manual and the manual for the STIHL tool powered by this battery. Improper use can lead to serious or fatal personal injury or property damage.



To reduce the risk of personal injury or property damage from fire, explosion or burns, including chemical burns, do not disassemble, crush, drop, damage or heat above 212 °F (100 °C). Never expose to fire or incinerate, 7.1.



To reduce the risk of personal injury or property damage from a short circuit, fire or explosion, keep dry. Never immerse in water or other liquids, 7.1.

Batteries sold separately.

5 General Power Tool Safety Warnings and Instructions

5.1 Introduction

This chapter contains the prescribed general safety warnings and instructions for handheld, motor-operated electric power tools. Additional important warnings and instructions are provided in subsequent chapters of this manual.

WARNING

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

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

5.2 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.

5.3 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 the 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, 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 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) or ground fault circuit interruptor (GFCI) protected supply.** Use of an RCD or GFCI reduces the risk of electric shock.

5.4 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 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 jewellery. Keep your hair and clothing away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.
- g) **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of dust collection can reduce dust-related hazards.
- h) **Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.** A careless action can cause severe injury within a fraction of a second.

5.5 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 remove the battery pack, if detachable, from 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.** 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 tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- g) **Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.
- h) **Keep handles and grasping surfaces dry, clean and free from oil and grease.** Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

5.6 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 designed battery packs.** Use of any other battery packs may create a risk of injury and fire.
- c) **When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects that can make a connection from one terminal to another.** Shorting the battery terminals together may cause burns or a fire.
- d) **Under abusive conditions, liquid may be ejected from the battery; avoid contact.** If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.
- e) **Do not use a battery pack or 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

temperatures 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.

5.7 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 battery packs.** Service of battery packs should only be performed by the manufacturer or authorized service provider.

5.8 Blower Safety Warnings

- a) **Do not use the blower in bad weather conditions, especially when there is a risk of lightning.** This increases the risk of being struck by lightning.
- b) **Wear eye protection and ear protection.** Adequate protective equipment will reduce the risk of personal injury.
- c) **While operating the blower, always wear non-slip and protective footwear. Do not operate the machine when barefoot or wearing open sandals.** This reduces the risk of injury to the feet.
- d) **Do not wear loose fitting clothing or articles such as scarves, strings, chains, ties, etc., that could get drawn into the air inlets. Tie back or cover long hair to make sure it does not get drawn into the air inlets.** If any of these items are drawn into the air inlets, it can increase the risk of personal injury.
- e) **Keep bystanders away while operating the blower.** Thrown debris can increase the risk of personal injury.
- f) **Never point the blower nozzle in the direction of people or pets or in the direction of windows. Use extra caution when blowing debris near solid objects, such as trees, automobiles and walls that can cause debris to ricochet.** Thrown objects can damage property and increase the risk of personal injury.
- g) **Do not use the blower to blow anything that is burning or smoking, such as cigarettes, matches or hot ashes.** These ignition sources may increase the risk of fire.

- h) **Do not touch the fan while still in motion. Turn off the blower and wait until the fan stops before removing any part that may give access to the fan.** This reduces the risk of injury from moving parts.
- i) **When clearing jammed material or servicing the blower, make sure the power switch is off.** Unexpected starting of the blower while clearing jammed material or servicing may result in serious personal injury.

5.9 Information for Button Cell

⚠ WARNING	
• INGESTION HAZARD: This product contains a button cell or coin battery. • DEATH or serious injury can occur if ingested. • A swallowed button cell or coin battery can cause Internal Chemical Burns in as little as 2 hours. • KEEP new and used batteries OUT OF REACH of CHILDREN. • Seek immediate medical attention if a battery is suspected to be swallowed or inserted inside any part of the body.	

- a) Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. Do NOT dispose of batteries in household trash or incinerate.
- b) Even used batteries may cause severe injury or death.
- c) Call a local poison control center for treatment information.
- d) Battery type 1654
- e) Nominal voltage: 3.7 V.
- f) Non-rechargeable batteries are not to be recharged.
- g) Do not force discharge, recharge, disassemble, heat above  25.4 or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.
- h) Product contains a non-replaceable battery

6 IMPORTANT SAFETY INSTRUCTIONS

6.1 Introduction

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

READ ALL INSTRUCTIONS BEFORE USING THE BLOWER!

SAVE THESE INSTRUCTIONS

⚠ WARNING

- To reduce the risk of fire, explosion, electric shock or other personal injury, read and follow the important safety instructions in this chapter. Additional important warnings and instructions are provided in subsequent chapters of this manual.

6.2 Intended Use

⚠ WARNING

- This blower is designed for blowing leaves, grass, and similar material from yards, gardens, sidewalks, driveways, decks, patios and comparable surfaces in the manner and in the conditions described in this manual. Use of the blower for operations different than intended could result in serious injury or death.
 - Blow leaves, grass, and similar material only.
- Improper use could result in personal injury or property damage, including damage to the blower.
 - Use the blower and batteries only as described in this manual.
 - Never attempt to modify or override the blower's controls or safety devices in any way.
 - Never use a blower that has been modified or altered from its original design.
 - Be sure to read and follow the warnings and instructions for your batteries and charger before charging or starting work.
- This blower requires two STIHL AP series batteries to operate
 - STIHL recommends using pairs of the same model battery to operate the blower.
 - STIHL recommends using at least an AP 300 for unrestricted use of all functions.

The STIHL AP battery and the Blower with  uses Bluetooth® technology to exchange information with mobile devices running the STIHL connected App.

A non-replaceable 1654 button cell battery is used in the blower's operating unit.

Batteries, chargers and other accessories are sold separately.

6.3 Operator

⚠ WARNING

- Working with the blower can be strenuous. The operator must be in good physical condi-

tion and mental health. To reduce the risk of personal injury:

- Check with your doctor before using the blower if you have any health condition that may be aggravated by strenuous work.
- Do not operate the blower while under the influence of any substance (drug, alcohol or medication, etc.) that might impair vision, balance, dexterity or judgment.
- Be alert. Do not operate the blower when you are tired. Take a break if you become tired.
- Do not permit minors to use the blower.
- According to STIHL's current knowledge, the electric motor of this blower should not interfere with a pacemaker.
 - However, persons with a pacemaker or other implanted medical device should consult their physician and device manufacturer before operating this blower.

6.4 Personal Protective Equipment

⚠ WARNING

- To reduce the risk of personal injury:
 - Always wear proper clothing and protective apparel, including proper eye protection.
- Loss of control and severe injuries may result if hair, clothing or apparel are drawn into the air intake or otherwise become entangled in the components of the blower. To reduce the risk of severe personal injury:



- Wear sturdy and snug-fitting clothing that also allows complete freedom of movement.
- Wear overalls or long pants made of heavy material to help protect your legs. Do not wear shorts.

– Wear a long-sleeve shirt or jacket.



- Avoid loose-fitting jackets, scarves, neckties, flared or cuffed pants, jewelry and any other apparel that could be drawn into the air intake.
- Secure hair above shoulder level before starting work.

- To reduce the risk of eye injury:



- Always wear goggles or close-fitting protective glasses with adequate side protection that are impact-rated and marked as complying with ANSI Z87 "+".

- Prolonged exposure to power tool noise may result in permanent hearing damage. To reduce the risk of hearing damage:



- Wear sound barriers (ear plugs or ear muffs).
- Regular operators should have their hearing checked periodically.
- Be particularly alert and cautious when using hearing protection. Your ability to hear shouts, alarms or other audible warnings is restricted.

- Good footing is very important. To help maintain a secure footing and reduce the risk of injury while working:



- Wear substantial footwear with non-slip soles. Do not wear sandals, flip-flops, open-toed or similar footwear.

- To help reduce the risk of personal injury caused by loss of control during operation:



- STIHL recommends wearing heavy-duty non-slip work gloves made of leather or another wear-resistant material when handling the blower.

6.5 Blower

⚠ WARNING

- To reduce the risk of electric shock:
 - Do not immerse the blower in water or other fluids.
 - Store the blower indoors.
- This battery-powered blower is intended only for garden and landscape maintenance. Use for other purposes may increase the risk of personal injury and property damage.
 - Read and follow the operating instructions in this manual for approved applications, 18.
- To reduce the risk of personal injury to the operator and bystanders:



- Always release the trigger switch and remove the batteries before assembling, transporting, adjusting, inspecting, cleaning, servicing, maintaining or

storing the blower, and any other time it is not in use.

- Although certain unauthorized attachments may fit STIHL blowers, their use may be extremely dangerous. Only attachments supplied by STIHL or expressly approved by STIHL for use with this specific model are recommended.

- Use only attachments supplied or expressly approved by STIHL.
- Never modify this blower in any way.
- Never attempt to modify or override the blower's controls or safety devices in any way.
- Never use a blower that has been modified or altered from its original design.
- Do not put any object into the openings of the blower.
- Do not use the blower with any openings blocked.
- Keep the blower free of dust, lint, hair and anything that might reduce air flow.

- If the blower is dropped or subjected to similar heavy impacts:

- Check that it is undamaged, in good condition and functioning properly before continuing work.
- Check that the controls and safety devices are working properly.
- Check the LEDs for error messages,  11.1.2.
- Check that the batteries have not been damaged. Never use or charge a malfunctioning, damaged, cracked, leaking or deformed battery.
- Never work with a damaged or malfunctioning blower or battery. In case of doubt, have the blower and batteries checked by your authorized STIHL servicing dealer.

- If the blower or batteries are damaged, not working properly, has been left outdoors and exposed to rain or damp conditions, or dropped into water or other liquid, their components may no longer function properly and safety devices may be inoperative. To reduce the risk of personal injury and property damage:

- Take the blower and batteries to your authorized STIHL servicing dealer to be checked before further operation.

- Genuine STIHL replacement parts are specifically designed to match your blower and meet safety and performance requirements. Use of parts that are not authorized or approved by

STIHL may cause serious or fatal injury or property damage.

- STIHL recommends that only identical replacement parts be used.

6.6 Using the Blower

6.6.1 Before Operation

WARNING

- Misuse or unauthorized use may result in personal injury and property damage.
 - Use the blower only as described in this instruction manual.
- Using a blower that is modified, damaged, improperly adjusted or maintained, or not completely and securely assembled can increase the risk of serious personal injury.
 - Never operate a blower that is modified, damaged, improperly maintained or not completely and securely assembled.
 - Always check your blower for proper condition and operation before starting work, particularly the trigger switch.
 - Ensure that the trigger switch moves freely and springs back into place when released.
 - Never attempt to modify or override the controls or safety devices in any way.
 - If your blower or any part is damaged or does not function properly, take it to your authorized STIHL servicing dealer. Do not use the blower until the problem has been corrected.
- Before inserting the batteries:
 - Check the electrical contacts in the batteries compartment for corrosion or other foreign matter. Keep clean and dry.
 - Never insert or use a malfunctioning, damaged, cracked, leaking or deformed battery.
 - Read and follow the instructions on switching on the blower,  16.1.
- To help reduce the risk of serious personal injury from unintentional starting:
 - Be sure the trigger switch is in the off position before inserting the batteries.
 - Never carry the blower with your finger on the trigger switch.
 - Release the trigger switch before removing the batteries.

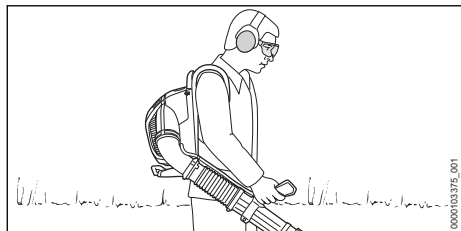


- Remove the batteries before assembling, transporting, adjusting, inspecting, cleaning, servicing, maintaining or storing the

blower, and any other time it is not in use.

- Never leave the blower unattended when the batteries are inserted.
- Never store the batteries in the blower.

6.6.2 Holding and Controlling the Blower



WARNING

- To maintain a firm grip and properly control your blower:
 - Keep the handle clean and dry at all times. Keep it free of moisture, pitch, oil, grease and resin.
- To reduce the risk of serious or fatal injuries to the operator or bystanders from loss of control:
 - Always carry the blower on your back as a backpack with the straps of the harness comfortably and securely positioned over both shoulders.
 - Adjust the blower harness straps so that the backplate fits snugly and securely against your back.
 - Never carry the unit with the strap(s) over just one shoulder.
 - Wrap your fingers tightly around the handle, keeping the handle cradled between your thumb and forefinger (see illustration).
- To reduce the risk of serious or fatal injuries to the operator or bystanders from loss of control, keep proper footing and balance at all times:
 - Never work on a ladder, roof, in a tree or while standing on any other insecure support.
 - Take special care in overgrown or wet terrain and always watch for hidden obstacles such as tree stumps, roots, rocks, holes and ditches to avoid stumbling.
 - Be extremely cautious when working on slopes or uneven ground.
 - Use extra care when working on stairs.
 - For better footing, always clear away fallen branches, scrub, cuttings and other

material, objects or vegetation that can increase the danger of slipping, tripping or falling.

- Never operate the blower above shoulder height.
- Do not overreach. Keep proper footing and balance at all times.
- The operator must be able to remove the harness quickly in the event of an emergency. To reduce the risk of injury in an emergency:
 - Practice removing and putting down the blower as you would in an emergency. To avoid damage, do not throw the blower to the ground when practicing.

6.6.3 Working Conditions

WARNING

- Operate your blower only under good visibility during favorable daylight conditions.
 - Postpone the work if the weather is windy, foggy, rainy or inclement.
- Your blower is a one-person machine.
 - Bystanders, especially children, and animals should not be allowed in the area where it is in use.
 - Switch off the blower immediately if you are approached.
- To reduce the risk of injury to bystanders and unauthorized users:
 - Never leave the blower unattended when the batteries are inserted.
 - Switch off the blower and remove the batteries during work breaks and any other time the blower is not in use.
- Operating the blower in certain dry, dusty conditions may cause static electricity to build up in the blower tube, nozzle and housing. This static electricity may discharge suddenly with a spark. To reduce the risk of personal injury following static discharge:
 - Never operate the blower in a location where combustible gases, liquids, vapors, dusts or other combustible materials and substances are present.
- Sparks generated from operation of the blower may be capable of igniting combustible gases, liquids, vapors, dusts or other combustible materials and substances. To reduce the risk of fire and explosion:
 - Never operate the blower in a location where combustible gases, liquids, vapors, dusts or other combustible materials and substances are present.
 - Read and follow recommendations issued by government authorities (e.g., OSHA)

for identifying and avoiding the hazards of combustible gases, liquids, vapors, dusts or other combustible materials and substances.

- Use of this blower can generate dust and other substances containing chemicals known to cause respiratory problems, cancer, birth defects and other reproductive harm.
 - Consult governmental agencies such as EPA, OSHA, CARB and NIOSH and other authoritative sources on hazardous materials if you are unfamiliar with the risks associated with the particular substances with which you are working.
- 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 or other airborne contaminants, especially those with a smaller particle size, may cause respiratory or other illnesses.
 - Control dust at the source where possible.
 - To the extent possible, operate the blower so that the wind or operating process directs any dust, mist or other particulate matter raised by the blower away from the operator.
 - When respirable dust or other particulate matter cannot be kept at or near background levels, always wear a respirator that is approved by NIOSH and rated for worksite-specific conditions. Follow the recommendations of governmental authorities (e.g., OSHA/NIOSH) and occupational and trade associations.
- If the surrounding ground is coated with a chemical substance, such as pesticide or herbicide:
 - Read and follow the instructions and warnings that accompanied the substance coating the vegetation or surrounding ground.

6.6.4 Operating Instructions

▲ WARNING

- In the event of an emergency:
 - Switch off the motor immediately and remove the blower from your back.
- The blower fan between the air intake and output opening rotates whenever the motor is running. To reduce the risk of injury from contact with the blower fan:
 - Never operate the blower with a missing, cracked or worn intake screen or housing.

- Never operate the blower without a properly mounted blower tube and nozzle.
- Keep hair, loose clothing, fingers and all parts of the body away from openings and moving parts of the blower.

- The air flow from the blower can propel small objects at high speed. To reduce the risk of eye or other serious personal injuries to bystanders from blown objects:



- Keep bystanders and pets at least 50 ft. (15 m) away when the blower is running.



- Never direct the air flow toward bystanders or pets.

- Do not allow the blower to be used as a toy.
- Switch off the blower immediately if you are approached.
- A missing, cracked or worn intake screen or housing may result in an increased risk of injury from thrown objects.
 - Never operate a blower that has a missing, cracked or worn intake screen or housing.
- Inserting any foreign object into the air intake or nozzle may result in property damage, including damage to the blower itself, and serious injury to the operator or bystanders as a result of the object or broken parts being blown at high speed.
 - Never insert any objects into the nozzle or air intake of the blower.
 - Immediately switch off the blower if it starts to vibrate abnormally.
- Using the blower to spread herbicides, pesticides, fertilizers or other chemical substances can be dangerous and may cause serious or fatal injury to persons and damage to the environment.
 - Never use the blower to disperse or spread chemicals of any kind.

7 Battery Safety

7.1 Warnings and Instructions

▲ WARNING

- Read and follow the safety precautions on the batteries and all warnings and instructions that accompany them.

- Use of unauthorized batteries can damage the power tool and result in fire, explosion and personal injury and property damage.
 - Use only genuine STIHL AP series batteries.
- Use of STIHL AP series batteries for any purpose other than powering STIHL power tools could be extremely dangerous.
 - Use STIHL AP series batteries only to power compatible STIHL power tools.
- Use of unauthorized chargers can damage the batteries and result in fire, explosion and personal injury and property damage.
 - Use only genuine STIHL AL 101, AL 301, AL 301-4 or AL 500 series chargers to charge STIHL AP series batteries.
- The batteries contains safety features and devices which, if damaged, may allow the batteries to generate heat, rupture, leak, ignite or explode.



- Never heat the batteries above 212 °F (100 °C).
- Never incinerate or place the batteries on or near fires, stoves or other high-temperature locations.
- Never use or charge malfunctioning, damaged, cracked, leaking or deformed batteries.
- Never open, disassemble, crush, drop, subject to heavy impact or otherwise damage the batteries.
- Never expose the batteries to microwaves or high pressures.
- Never insert objects into the battery's cooling slots.
- Extreme temperatures may cause the batteries to generate heat, rupture, leak, ignite or explode, resulting in severe or fatal personal injury and property damage.
 - Never charge, use or store the batteries outside the specified ambient temperature limits,  25.4.
- To reduce the risk of personal injury and property damage in the event the batteries emits smoke, have an unusual smell or feels unusually hot while using, charging or storing:
 - Immediately discontinue using or charging the batteries. Contact the authorities in the event of fire or explosion.
- To reduce the risk of a short circuit, which could lead to electric shock, fire and explosion:



- Never immerse the batteries in water or other liquids.

- Never bridge the batteries terminals with wires or other metallic objects.
- Keep batteries that are not in use away from small metal objects capable of conducting electricity (e.g., paper clips, nails, coins, keys).
- Store the batteries indoors in a dry room.
- Never store the batteries in damp or corrosive environments or in conditions that could lead to corrosion of its metal components.
- Never store the batteries in the blower.
- When storing the batteries, maintain a charge of 40 % to 60 % (2 green LEDs).
- If storing the batteries in the charger, disconnect the charger from the outlet.
- Protect the batteries from exposure to corrosive agents such as garden chemicals and de-icing salts.
- Protect the batteries from exposure to conductive liquids such as salt water.
- Do not attempt to repair, open or disassemble the batteries. There are no user-serviceable parts inside.
- Leaking battery fluid is potentially harmful and can cause skin and eye irritation, chemical burns and other serious personal injury.
 - Avoid contact with skin and eyes.
 - Use an inert absorbent such as sand on spilled battery fluid.
 - In the event of accidental contact, immediately rinse the contact area thoroughly with mild soap and water.
 - If fluid gets into your eye(s): Do not rub. Rinse water over the open eye(s) for at least 15 minutes and seek medical attention.
- A battery fire can be dangerous. To reduce the risk of severe personal injury and property damage in the event of fire:
 - Evacuate the area. Fire can spread rapidly. Stay clear of any vapors generated and maintain a safe distance.
 - Contact the fire department.
 - Although water can be used to put out a battery fire, use of a multi-purpose dry chemical fire extinguisher is preferable.
 - Consult the fire department regarding proper disposal of a burned battery.

- Dropping the batteries could result in personal injury or property damage. To prevent the batteries from falling during removal:
 - Place the power tool on a level surface.
 - Use care when removing the batteries.

8 Maintenance, Repair and Storage

8.1 Warnings and Instructions

▲ WARNING

- To reduce the risk of fire, electric shock or other personal injury and property damage:
 - Strictly follow the cleaning and maintenance instructions in the appropriate sections of this instruction manual.
 - STIHL recommends that all repair work be performed by authorized STIHL servicing dealers.
- Unintentional starting may result in personal injury or property damage.



- Remove the batteries before inspecting the blower or carrying out any cleaning, maintenance or repair work, before storing, and any other time the blower is not in use.
- Use of parts that are not authorized or approved by STIHL may cause serious or fatal injury or property damage.
 - STIHL recommends that only identical STIHL replacement parts be used for repair or maintenance.
- To reduce the risk of short circuit and fire:
 - Keep the batteries guides free of foreign matter. Clean as necessary with a dry cloth or soft, dry brush.
- Improper storage can result in unauthorized use, damage to the blower and batteries and an increased risk of fire, electric shock and other personal injury or property damage.
 - Remove the batteries from the blower before storing.
 - Never store the blower with the batteries inserted.
 - When storing the batteries, maintain a charge of 40 % to 60 % for STIHL AP series batteries.
 - If storing the batteries in the charger, disconnect the charger from the outlet.
 - Store the blower and batteries indoors in a dry, secure place that cannot be accessed by children or other unauthorized users.

- Never store the batteries in the blower or in a container with small metal objects capable of conducting electricity (e.g., paper clips, nails, coins, keys).

- Dropping the batteries could result in personal injury or property damage. To prevent the batteries from falling during removal:
 - Use care when ejecting the batteries.

9 Before Starting Work

9.1 Preparing the Blower for Operation

Before starting work:

- ▶ Fully charge the batteries, 10.
- ▶ Mount the blower tube, 13.1.
- ▶ Mount the nozzle, 13.2.
- ▶ Adjust the control handle, 14.1.
- ▶ Put on and adjust the harness, 14.3.
- ▶ Check the controls for proper function and condition, 17.1.

9.2 Blower

9.2.1 Connecting the Blower to the STIHL connected App

- ▶ Turn on your mobile device's Bluetooth® interface.
- ▶ Turn on the blower's Bluetooth® interface, 12.1.
- ▶ Download the STIHL connected App from Google Play or the App Store.
- ▶ Follow in-app instructions for creating a new user account. Returning users should log in their existing account information.
- ▶ Follow the step-by-step instructions for adding the battery to your equipment list.

9.3 Battery

9.3.1 Connecting to the STIHL connected App

- ▶ Turn on your mobile device's Bluetooth® interface.
- ▶ Turn on the battery's Bluetooth® interface, 12.2.1
- ▶ Download the STIHL connected App from Google Play or the App Store.
- ▶ Follow in-app instructions for creating a new user account. Returning users should log in their existing account information.
- ▶ Follow the step-by-step instructions for adding the battery to your equipment list.

10 Charging the Batteries

10.1 Setting up the Charger



WARNING

- Read and follow the safety precautions on the battery and charger and all warnings and instructions that accompany those products. To reduce the risk of short circuit, which could lead to electric shock, fire and explosion, make sure the charger and its components are dry and not damaged. Read and follow the warnings and instructions in your charger's manual. For optimum performance, observe the recommended ambient temperature ranges, 25.5.



WARNING

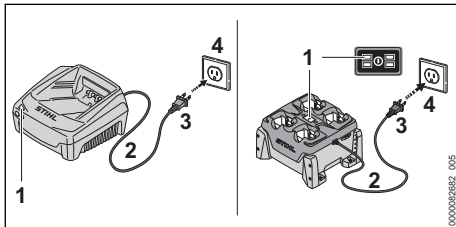
- A typical household electric circuit is between 15 and 20 amps. A single STIHL AL 500 charger draws approximately 4.8 amps. A single AL 301 or AL 301-4 charger draws approximately 4.4 amps and an AL 101 approximately 1.3 amps. To reduce the risk of fire from overloading an electrical circuit:
 - Ensure the electrical system is rated to withstand the expected electrical draw before charging your battery.
 - Charge multiple batteries one at a time or on separate circuits, unless you know your circuit can handle the total expected draw from multiple chargers.



WARNING

- Since the charger heats up during the charging process, do not operate the charger on a combustible surface or in a location where combustible gases, liquids, vapors, dusts or other materials and substances are present.

To set up the charger:



- Insert the plug (3) into a properly installed electrical outlet (4) matching the voltage and

electrical frequency stated on the charger's rating plate.

The charger runs a self-test immediately after it is plugged in. The charger LED (1) will glow green for about 1 second, then it will glow red briefly before going out. Once the LED goes out, the self-test is complete and the charger is ready to charge the battery.

- Position the power supply cord (2) so that it will not be stepped on, tripped over, come in contact with sharp objects or moving parts or otherwise be subjected to damage or stress.

10.2 Charging



WARNING

- STIHL batteries contain safety features and devices which, if damaged, may allow the battery to generate heat, rupture, leak, ignite or explode. Never charge a malfunctioning, damaged, cracked, leaking or deformed battery or use a charger that has been damaged. Never insert a wet battery or adapter. Never use a wet charger. Follow all product-specific warnings and instructions accompanying your battery and charger.

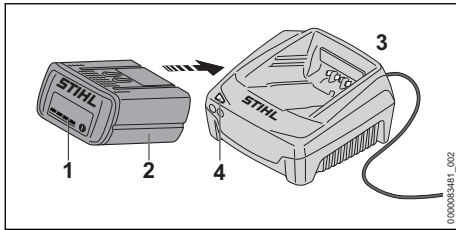
A battery is not fully charged when it ships from the factory. STIHL recommends that you fully charge the battery before using it the first time.

Read and follow the warnings and instructions in your charger's manual. For optimum performance, observe the recommended ambient temperature ranges, 25.5.

The battery heats up during operation of the power tool. If a hot battery is connected to the charger, it may be necessary for it to cool down before charging starts. The charging process begins only after the battery has cooled down sufficiently.

Charging time depends on a number of factors, including battery condition and the ambient temperature. For a complete list of approximate charging times, see www.stihl.com/charging-times.

To charge an AP battery:



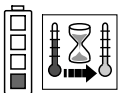
- ▶ Push the battery (2) into the charger (3) until it stops.
The LED on the **charger** glows green when the battery is charging.
The LEDs (1) on the **battery** glow green and show the state of charge.
When the LEDs on the battery go out, the charging process is complete and the charger will shut itself off. The battery can be removed from the charger.
- ▶ Disconnect the power supply cord from the electrical outlet when the charger is not in use for extended periods of time.
- ▶ Charge STIHL AP series batteries only with genuine STIHL AL 101, AL 301, AL 301-4 or AL 500 series chargers.

11 LED Diagnostics and Acoustic Signals

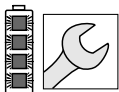
11.1 STIHL AP Battery

11.1.1 Battery Status

Four LEDs show the status of the battery. These LEDs can glow or flash green or red.



If one LED glows red continuously: the battery is either too hot or too cold. Allow the battery to warm up or cool down gradually at an ambient temperature of about 50 °F to 68 °F (10 °C to 20 °C).



If all 4 LEDs flash red: the battery has a malfunction and must be replaced. Do not attempt to charge, use or store the battery.

11.1.2 Power Tool Status

The same LEDs on the battery will indicate the status of the power tool.

If three LEDs glow red continuously: the power tool motor is too hot. Allow the motor to cool down.

If three LEDs flash red when you activate the trigger switch: the power tool has an electrical malfunction. Do not operate the power tool. Have

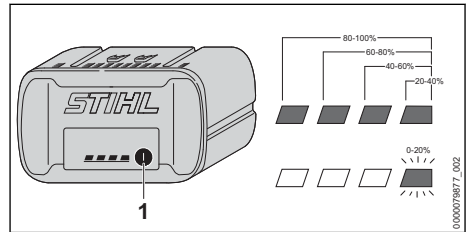
it checked by an authorized STIHL servicing dealer before use or storage.

For troubleshooting information, 24.

11.1.3 Charge Status

The LEDs on the battery also show the battery's state of charge.

To determine the battery's state of charge:



- ▶ Press the button (1) on the battery.
The LEDs on the battery will glow or flash green for about 5 seconds and indicate the state of charge (see illustration).

For example:

If four green LEDs glow continuously: full charge.

If one green LED is flashing: less than 20 % charge.

12 Bluetooth® Radio Interface

12.1 Blower

12.1.1 Turning the Bluetooth® Interface On

- ▶ Insert the batteries, 15.1.
- ▶ Switch the blower on, 16.1.
- ▶ Press and hold the push button on the operating unit for about 3 seconds.
If the Bluetooth® LED next to the connected symbol glows blue for about 5 seconds, the blower's Bluetooth® interface is on.

12.1.2 Turning the Bluetooth® Interface Off

- ▶ Delete the blower from the STIHL connected App.
- ▶ Press and hold the push button on the operating unit for about 10 seconds.
If the Bluetooth® LED flashes blue six times, the Bluetooth® interface is off.

12.2 Battery

12.2.1 Turning the Bluetooth® Interface On

- ▶ Press and hold the push button for about 3 seconds.

If the Bluetooth® LED next to the connected symbol glows blue for about 3 seconds, the battery's Bluetooth® interface is on.

12.2.2 Turning the Bluetooth® Interface Off

- ▶ Press and hold the push button for about 3 seconds.

If the Bluetooth® LED flashes blue six times, the Bluetooth® interface is off.

12.2.3 Resetting the Battery to Factory Settings via Bluetooth® (AP 300 S and AP 500 S only)

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

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

13 Assembling the Blower

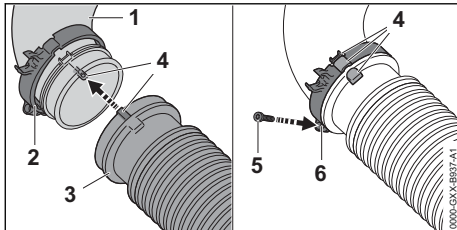
13.1 Mounting the Blower Tube



WARNING

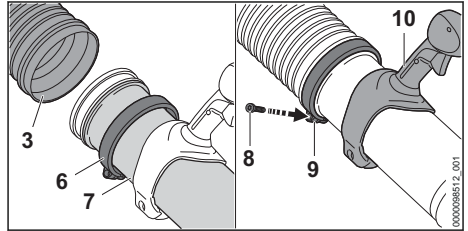
- Never operate your blower without a properly mounted blower tube and nozzle,  6.6.4. Use only attachments supplied or expressly approved by STIHL,  8.1.

To mount the blower tube:

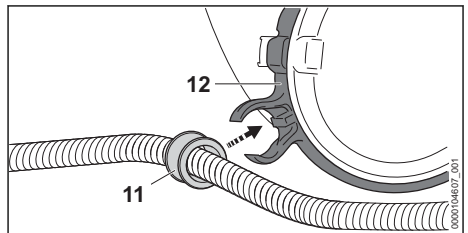


- ▶ Push the throttle cable clamp (2) onto the elbow (1).
- ▶ Line up the positioning marks (4) and push the pleated hose (3) onto the elbow (1).

- ▶ Push the throttle cable clamp (2) onto the pleated hose (3).
- ▶ Line up the positioning marks (4) on the throttle cable clamp (2) and elbow (1). The screw lug (6) should be on the underside of the elbow/pleated hose.
- ▶ Secure the throttle cable clamp with the screw (5).



- ▶ Push the throttle cable clamp (6) onto the blower tube (7).
- ▶ Push the blower tube (7) into the pleated hose (3). The control handle (10) should be facing up.
- ▶ Push the throttle cable clamp (6) onto the pleated hose (3). The screw lug (9) should be on the underside of the pleated hose/blower tube.
- ▶ Secure the throttle cable clamp with the screw (8).



- ▶ Secure the throttle cable (11) in the throttle cable clamp (12).

Once the blower tube is assembled, keep them connected during use and storage.

13.2 Mounting and Removing the Nozzle

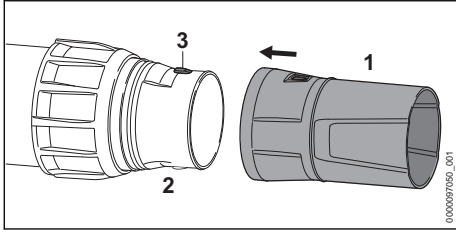


WARNING

- Never operate your blower without a properly mounted blower tube and nozzle,  6.6.4. Use only attachments supplied or expressly approved by STIHL,  8.1.

To mount the nozzle:

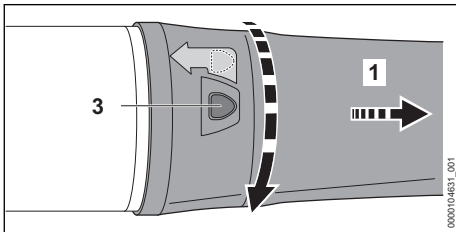
- ▶ Extend the blower tube.



- ▶ Align the hole on the nozzle (1) with the lug (3) on the blower tube (2) and push them together until the nozzle engages.

Once the nozzle and blower tube are assembled, keep them connected during use and storage.

To remove the nozzle:



- ▶ Press down and hold the lock (3).
- ▶ Turn the nozzle in the direction of the arrow and remove it.

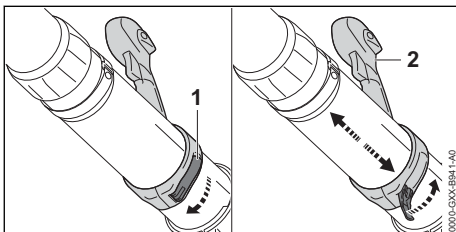
14 Adjusting the Blower

14.1 Adjusting the Control Handle

The control handle can be mounted to suit the height and reach of the operator.

To adjust the position of the control handle:

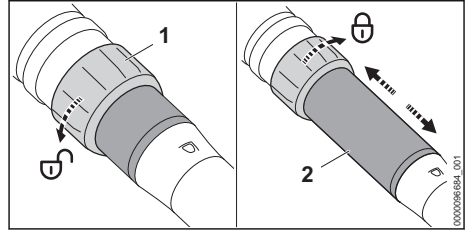
- ▶ Switching off the blower, [16.2](#).



- ▶ Open the clamping lever (1).
- ▶ Move the control handle (2) to the most comfortable position.
- ▶ Close the clamping lever (1).

14.2 Adjusting the Blower Tube

To adjust the blower tube:



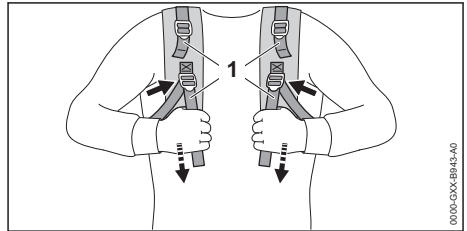
- ▶ Loosen the union nut (1).
- ▶ Pull the blower tube (2) out to the required length.
- ▶ Tighten the union nut.

14.3 Putting on the Harness

⚠ WARNING

- The operator must be able to remove the blower quickly in the event of an emergency. In an emergency, open and remove the chest strap quickly before dropping the blower to the ground.

To ensure a proper fit:



- ▶ Put the blower on your back.
- ▶ Adjust the harness straps (1) so that the back-plate fits snugly and securely against your back.
- ▶ Always wear the blower harness over both shoulders.
- ▶ To remove the harness, loosen the harness straps by lifting the sliding adjusters.

To help reduce the risk of injury in the event of an emergency, practice quickly opening the shoulder straps and removing the blower.

NOTICE

- To avoid damage, ease the blower to the ground when practicing. Do not allow the blower to drop to the ground and do not throw it.

15 Inserting and Removing the Batteries

15.1 Inserting the Batteries

WARNING

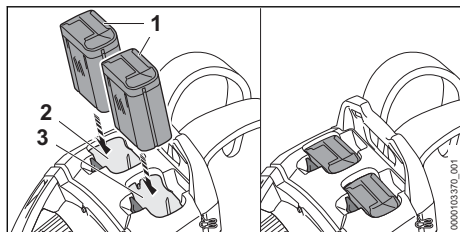
- To reduce the risk of personal injury or property damage from fire or electric shock, never use a malfunctioning, damaged, cracked, leaking or deformed batteries,  7. Never charge, use or store the batteries outside the specified ambient temperature limits,  25.4.

WARNING

- To reduce the risk of unintended activation, never store the batteries in the blower,  21.2.

STIHL recommends using the same size batteries.

To insert the batteries:



- Insert the batteries (1) into the batteries compartment (2,3) until it stops. The batteries are properly inserted when you hear an audible click and the batteries are flush with the top of the housing. In this position, there is electrical contact between the batteries and the blower.

Since new batteries are not fully charged, STIHL recommends that you fully charge the batteries before using them the first time,  10.

15.2 Removing the Batteries

WARNING

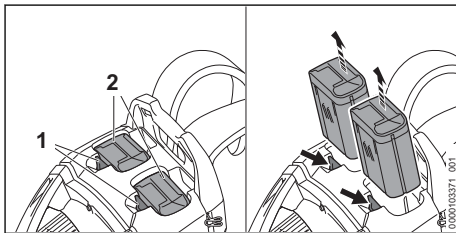
- To reduce the risk of severe personal injury from unintended activation, always remove the batteries before assembling, transporting, adjusting, cleaning, servicing, maintaining or storing the blower, and any other time it is not in use.

WARNING

- Use care when ejecting the batteries to prevent it from falling and causing personal injury or property damage.

To remove the batteries:

- Release the trigger switch.
- Position your hand behind the batteries.



- Compress the locking levers (1) to eject the batteries (2) from the battery compartment.

NOTICE

- Avoid exposing the batteries to excessive heat or prolonged periods of direct sunlight. Use or storage outside the recommended ambient temperature range can reduce the performance of the batteries.

16 Switching the Blower On and Off

16.1 Switching On

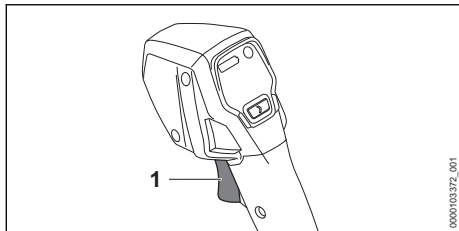
WARNING

- Never operate your blower if it is modified, damaged, improperly adjusted or maintained, not completely and securely assembled or not functioning properly,  8.1. To reduce the risk of personal injury, always wear proper clothing and protective apparel, including proper eye protection, when operating your blower,  6.4.

Before switching on:

- Make sure you have a secure and firm footing.
- Stand upright.
- Always hold and operate the blower with one hand firmly on the control handle.

To switch the blower on:



- ▶ Squeeze the trigger switch (1) with your index finger.
The blower will activate.

The further the trigger switch is depressed, the stronger the blowing force.

16.2 Switching Off

WARNING

- To reduce the risk of personal injury from unintended activation or unauthorized use, switch off the motor and remove the batteries before transporting or putting the blower down.

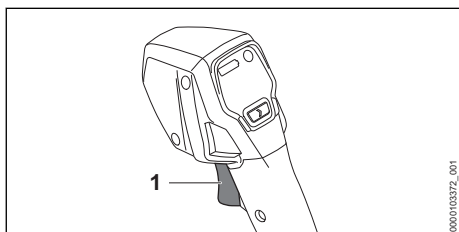
To switch the blower off:

- ▶ Release the trigger switch so that the trigger switch springs back to the locked position.

17 Checking the Controls

17.1 Testing the Controls

Before starting work, confirm that the trigger switch (1) is undamaged and functioning properly.



Trigger Switch (1)

WARNING

- To help reduce the risk of injury from blown objects, always wear proper eye protection while testing the controls. Keep bystanders at least 50 ft. (15 m) away.

To test the controls:

- ▶ Remove the batteries.

- ▶ Attempt to depress the trigger switch.
Make sure it moves freely and springs back into place when released.
- ▶ Insert the batteries.
- ▶ Hold the blower firmly with one hand on the control handle. Squeeze the trigger switch with your index finger.
The blower should switch on. If the fault indicator LED flashes red or 3 LEDs on the batteries flash red: remove the batteries and take the blower to an authorized STIHL servicing dealer to be repaired before use.
- ▶ Release the trigger switch.
The blower should switch off.
If the blower does not switch off after you release the trigger switch, remove the batteries and take the blower to an authorized STIHL servicing dealer to be repaired before use.
If the blower does not switch off after you release the trigger switch, check if the power hold button is activated,  18.2 if the blower continues to run, remove the batteries and take the blower to an authorized STIHL servicing dealer to be repaired before use.

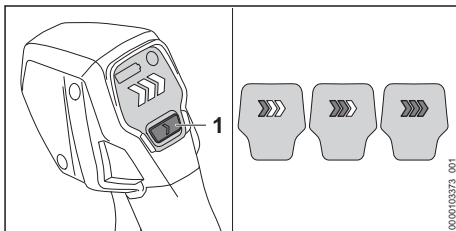
18 During Operation

18.1 Selecting the Power Level

The unit can be operated at three different power settings, indicated by LEDs on the operating unit. The higher the power level, the stronger the blowing force.

To set the power level:

- ▶ Switch the blower on.
The power level LEDs on the operating unit indicate the current power level.



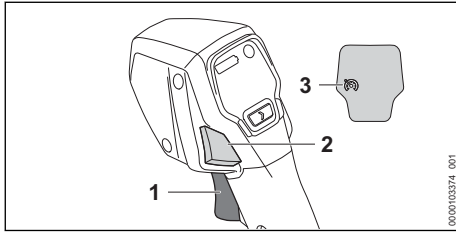
- ▶ Depress the power lever selector to activate the next power level.
Performing this operation at the highest power level will cause the unit to return to the first power level.

Generally, battery runtime will be shorter when operating continuously at the higher power levels.

18.2 Using the Power Hold Button

You can set and retain the selected blowing force by pressing the power hold button.

To use the power hold feature:



- ▶ Switch the blower on.
- ▶ Select the power level.
- ▶ Squeeze the trigger switch (1) until you reach the desired blowing force for your task.
- ▶ While holding the trigger switch, depress the power hold button (2).
The Power Hold LED (3) will glow green. The trigger switch can be released and the blower will continue operating at the selected blowing force.

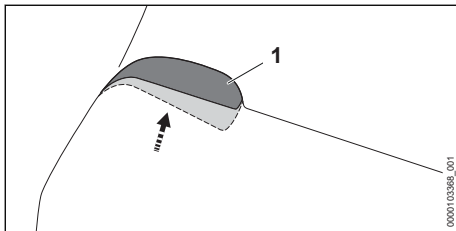
De-activate the power hold button before putting the blower down.

Press the power hold button again to stop the blower or to resume control of the blowing force with the trigger switch.

18.3 Activating the Boost Function

The blower operates at maximum power when the boost function is activated. The boost function can be activated independent of the selected power level.

To activate the boost function:



- ▶ Override the trigger switch's (1) end position and hold it there.
The power level LEDs flash in sequence, indicating that the boost function is activated.

De-activate the boost function by releasing the trigger switch (1). The previous power level will be restored.

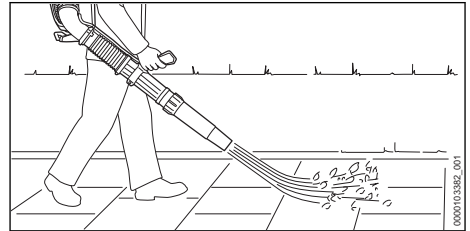
Generally, battery life will be shorter when operating the boost function continuously.

18.4 Using the Blower

⚠ WARNING

- Always wear proper clothing and protective apparel, including proper eye protection, 6.4. Never direct the air flow toward bystanders. Keep bystanders at least 50 ft. (15 m) away from the work area, 6.6.4. Work carefully and maintain proper control of the blower.

The blower is designed for single-handed operation with the right hand.



- ▶ Hold the unit firmly with your hand, keeping the handle cradled between your thumb and fingers.
- ▶ Direct the air flow at the edges of the pile of material to be blown.

When setting the blower down, ensure that it is placed on a dry surface.

NOTICE

- Never direct the air flow toward objects such as vehicles or windows.

For optimum performance, observe the recommended ambient temperature ranges, 25.5.

Observe all applicable laws, regulations, standards and ordinances.

19 After Finishing Work

19.1 Preparing for Transportation or Storage

⚠ WARNING

- To reduce the risk of personal injury from unintended activation or unauthorized use, switch off the motor and remove the batteries before transporting the blower.

To prepare the blower for transportation or storage:

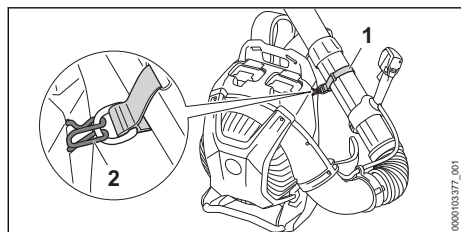
- ▶ Switch off the blower,  16.
- ▶ Remove the batteries,  15.2.
- ▶ If the batteries or blower became damp or wet during operation, allow them to dry separately and completely before charging or storing,  25.5.

20 Transporting the Blower and Batteries

20.1 Blower

When transporting the blower:

- ▶ Carry the blower as a backpack with the straps of the harness over both shoulders or with the carrying handle integrated into the backplate.



- ▶ When transporting the blower in a vehicle, secure the blower tube with the loop fastener (1) on the hook (2) and position the blower to prevent turnover, impact and damage.

20.2 Batteries



WARNING

- To reduce the risk of a short circuit, which could lead to electric shock, fire and explosion, never transport the batteries with small metal objects capable of conducting electricity (e.g., paper clips, nails, coins, keys),  7.

When transporting the batteries:

- ▶ Secure the batteries in a container against impact or damage. Never transport the batteries with small metal objects capable of conducting electricity (e.g., paper clips, nails, coins, keys).
- ▶ If you are transporting the batteries in a vehicle, secure them and their container to prevent turnover, impact and damage.

STIHL batteries comply with the requirements set forth in UN-Manual of Tests and Criteria, 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 UN 3480, Class 9, packaging group II 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 met by the user in order 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.

For further information please go to www.stihl-usa.com/battery-transportation-safety.

21 Storing the Blower and Batteries

21.1 Blower



WARNING

- Store the blower indoors in a dry, secure place that is inaccessible to children and other unauthorized users. Never store the batteries in the blower. Improper storage can result in unauthorized use and damage to the blower.



WARNING

- To reduce the risk of unintended activation, never store the blower with the batteries inserted. Always remove the batteries before storing.

When storing the blower:

- ▶ Clean the blower,  22.1.
- ▶ Secure and position the blower to prevent turnover, impact and damage.
- ▶ Store the blower indoors in a dry and secure location, out of the reach of children and other unauthorized persons.

21.2 Batteries



WARNING

- To reduce the risk of a short circuit, which could lead to electric shock, fire and explosion, never store the batteries with small metal objects capable of conducting electricity (e.g., paper clips, nails, coins, keys), 7.1. If the batteries are damp or wet, allow them to dry thoroughly before storing, 7.1.



WARNING

- Extreme temperatures can damage the batteries and may also cause the batteries to generate heat, rupture, leak, ignite or explode, resulting in severe or fatal personal injury or property damage. Never charge, use or store the batteries outside the specified ambient temperature limits, 25.4.

To properly store the batteries:

- ▶ Remove the batteries from the blower.
- ▶ When storing the batteries, maintain a charge of 40 % to 60 % for STIHL AP series batteries.
- ▶ If storing the batteries in the charger, disconnect the charger from the outlet.
- ▶ Make sure the batteries are dry and store them indoors in a dry and secure location.
- ▶ Keep them out of the reach of children and other unauthorized persons.
- ▶ Protect the batteries against dampness and corrosive agents such as garden chemicals and de-icing salts.
- ▶ Protect the batteries from exposure to conductive liquids such as salt water.
- ▶ For maximum battery life, store the batteries at an ambient temperature between 50 °F and 68 °F (10 °C and 20 °C) with a charge between 40 % and 60 % for STIHL AP series batteries.
- ▶ Do not leave spare batteries unused. Use them in rotation.

NOTICE

- A battery that is not stored properly may experience deep discharge, which can result in permanent damage. To avoid deep discharge:
 - Remove the batteries from the blower after finishing work.
 - For maximum battery life, store the batteries with a charge between 40 % and 60 % for STIHL AP series batteries.
 - If storing the battery in the charger, disconnect the charger from the outlet.
 - For maximum battery life, store the batteries at an ambient temperature between 50 °F and 68 °F (10 °C and 20 °C).

22 Cleaning

22.1 Cleaning the Blower and Batteries



WARNING

- To reduce the risk of personal injury from unintended activation, remove the batteries before carrying out any cleaning work, 8.1.

To clean the blower and batteries:

- ▶ Clean a dirty intake screen carefully with a soft brush whenever required.
- ▶ Clean the blower's polymer components with a slightly dampened cloth. Do not use detergents or solvents. They may damage the polymer components.
- ▶ Do not use a pressure washer to clean the blower or otherwise spray it with water or other liquids.
- ▶ Keep the battery housing and guides free from foreign matter and clean as necessary with a soft brush or soft, dry cloth.

NOTICE

- Never spray the power tool with water. Spraying it with a stream of water could result in damage to the electronics and other systems.

23 Inspection and Maintenance

23.1 Blower



WARNING

- To reduce the risk of personal injury from unintended activation, remove the batteries before inspecting the blower or carrying out any maintenance, 7.1.

To properly maintain the blower:

- Inspect the intake screen of the blower and replace if damaged.
- Have worn, missing or damaged safety labels replaced by an authorized STIHL servicing dealer.

24 Troubleshooting Guide

24.1 Blower and Batteries

Always remove the batteries before carrying out any inspection, cleaning or maintenance.

Condition	LEDs on the operating unit	LEDs on the battery	Cause	Remedy
Blower does not reach the usual power.	Overheating indicator glows yellow.		The temperatures of the electronics or of the motor are too high.	► Allow the blower to cool down. ► Do not switch on the blower too frequently within a short time. ► Set lower power level
Blower does not start when switched on.			No electrical contact between blower and batteries.	► Remove the batteries, 15.2. ► Visually check the electrical contacts in the batteries compartments and on the batteries. ► Reinsert the batteries, 15.1.
	1 LED on the charge state indicator flashes green.	1 LED flashes green.	One or both batteries has low charge.	► Charge the batteries, 10.
		1 LED glows red.	One or both batteries too hot / too cold.	► Allow the batteries to warm up or cool down gradually at ambient temperatures of about 50 °F to 68 °F (10 °C to 20 °C).
	Fault indicator flashes red.	3 LEDs flash red.	Malfunction in blower.	► Remove the batteries and reinsert it, 15 ► Switch on the blower, 16.1. ► If the LEDs still flash, do not attempt to use. The blower has a malfunction and must be checked by a servicing dealer.
	Overheating indicator flashes red.	3 LEDs glow red.	The blower is too hot.	► Remove the batteries, 15.2. ► Allow the blower to cool down.
		4 LEDs flash red.	Malfunction in one or both batteries	► Remove the batteries and reinsert it, 15. ► Switch on the blower, 16.1. ► If the LEDs continue to flash, do not attempt to use. One or both batteries has a malfunction and must be replaced.
	All LEDs on the operating unit flash.		Communication with the operating	► Remove the batteries, 15.2.

Condition	LEDs on the operating unit	LEDs on the battery	Cause	Remedy
			unit has been interrupted.	► Do not use the blower. The blower has a malfunction and must be checked by a servicing dealer.
			The blower or batteries are damp.	► Remove the batteries, 15.2 . ► Clean the blower, 22.1 . ► Allow the blower or batteries to dry, 25.5 .
Blower cuts out during operation.	Overheating indicator flashes red.	3 LEDs glow red.	One or both batteries too hot/cold.	► Remove the batteries, 15.2 . ► Allow the blower and batteries to cool down gradually at ambient temperatures of about 50 °F to 68 °F (10 °C to 20 °C).
Run-time is too short.			One or both batteries not fully charged.	► Charge the batteries, 10 .
			Useful life of batteries has been reached or exceeded.	► Have the batteries checked by an authorized STIHL servicing dealer.
		1 LED glows red.	Batteries too hot / too cold.	► Allow the batteries to warm up or cool down gradually at ambient temperatures of about 50 °F to 68 °F (10 °C to 20 °C). ► Read and follow the warnings and instructions in your charger's manual. For optimum performance, observe the recommended ambient temperature ranges, 25.5 .
Batteries cannot be found with the STIHL connected App.			Bluetooth® interface at the batteries or at your mobile device is not turned on.	► Activate the Bluetooth® interface at the batteries and at your mobile device, 12.2.1
			The battery in the operating unit is not fully charged	► Insert the batteries, 15.1 . ► Switch on the blower, 16.1 . The battery in the operating unit is being charged by the batteries in the blower.
			Distance between the batteries and your mobile device is too large.	► Reduce the distance between the batteries and your mobile device, 25.3 ► If the batteries still cannot be found with the STIHL connected App: Contact an authorized STIHL servicing dealer for assistance.
Blower cannot be found with the STIHL connected App.			Bluetooth® interface at the blower or at your mobile device is not turned on.	► Activate the Bluetooth® interface at the blower and at your mobile device, 12.1.1
			Distance between the blower and your mobile	► Reduce the distance between the blower and your mobile device, 25.3

Condition	LEDs on the operating unit	LEDs on the battery	Cause	Remedy
			device is too large.	► If the blower still cannot be found with the STIHL connected App: Contact an authorized STIHL servicing dealer for assistance.

25 Specifications

25.1 STIHL BRA 500.0 B

- Approved battery types:
 - STIHL AP series (AP 300, AP 300 S, AP 500 S only)
- Blowing force: xx N
- Maximum air velocity: xx mph (xx m/s)
- Average air velocity: xx mph (xx m/s)
- Air flow rate: xx cf/min (xx m³/h)
- Air flow rate (without blowing unit): XX cf/min (1697 m³/h)
- Weight without battery: xx lbs. xx kg)
- Bluetooth® interface
 - Data transmission protocol: Bluetooth® 5.1.
The mobile receiving devices must be compatible with Bluetooth® Low Energy 5.0 and support the Generic Access Profile (GAP).
 - Frequency band: ISM band 2.4 GHz
 - Radiated maximum transmission power: 1 mW
 - Bluetooth® signal range: maximum 33 ft. (10 m). The signal range may vary depending on ambient conditions and the performance of the designated receiving device, i.e., smartphone or tablet. The Bluetooth® range may be significantly limited when the signal is transmitted through metallic barriers (e.g., walls, shelving units, etc.) or near strong electromagnetic fields.
 - Minimum mobile terminal device (e.g., tablet, smartphone) system requirements: Android or iOS (in current version or higher)

For technical information regarding the STIHL AP series batteries, see the product information accompanying your battery.

For technical information regarding the STIHL AL 101, 301, 301-4 and 500 series chargers, see the product information accompanying your charger.

Batteries, chargers and other accessories sold separately. Contact your authorized STIHL servicing dealer for pricing and availability.

25.2 STIHL BRA 600.0 B

- Approved battery types:

- STIHL AP series (AP 300, AP 300 S, AP 500 S only)
- Blowing force: xx N
- Maximum air velocity: xx mph (xx m/s)
- Average air velocity: xx mph (xx m/s)
- Air flow rate: xx cf/min (xx m³/h)
- Air flow rate (without blowing unit): XX cf/min (1765 m³/h)
- Weight without battery: xx lbs. xx kg)
- Bluetooth® interface
 - Data transmission protocol: Bluetooth® 5.1.
The mobile receiving devices must be compatible with Bluetooth® Low Energy 5.0 and support the Generic Access Profile (GAP).
 - Frequency band: ISM band 2.4 GHz
 - Radiated maximum transmission power: 1 mW
 - Bluetooth® signal range: maximum 33 ft. (10 m). The signal range may vary depending on ambient conditions and the performance of the designated receiving device, i.e., smartphone or tablet. The Bluetooth® range may be significantly limited when the signal is transmitted through metallic barriers (e.g., walls, shelving units, etc.) or near strong electromagnetic fields.
 - Minimum mobile terminal device (e.g., tablet, smartphone) system requirements: Android or iOS (in current version or higher)

For technical information regarding the STIHL AP series batteries, see the product information accompanying your battery.

For technical information regarding the STIHL AL 101, 301, 301-4 and 500 series chargers, see the product information accompanying your charger.

Batteries, chargers and other accessories sold separately. Contact your authorized STIHL servicing dealer for pricing and availability.

25.3 STIHL AP Series Battery

Approved charger types: STIHL AL 101, AL 300, AL 301, AL 301-4, AL 500, AL 501.

- Battery technology: Lithium-Ion
- Voltage: 36 V
- Rated capacity in Ah¹: See rating plate

- Stored energy in Wh²: See rating plate
- Weight in kg: See rating plate
- Bluetooth® interface (only for batteries with )
- Data transmission protocol: Bluetooth® 5.1. The mobile receiving devices must be compatible with Bluetooth® Low Energy 5.0 and support the Generic Access Profile (GAP).
- Frequency band: ISM band 2.4 GHz
- Radiated maximum transmission power: 1 mW
- Bluetooth® signal range: maximum 33 ft. (10 m). The signal range may vary depending on ambient conditions and the performance of the designated receiving device, i.e., smartphone or tablet. The Bluetooth® range may be significantly limited when the signal is transmitted through metallic barriers (e.g., walls, shelving units, etc.) or near strong electromagnetic fields.
- Minimum mobile terminal device (e.g., tablet, smartphone) system requirements: Android or iOS (in current version or higher)

For a complete list of approximate charging times, see www.stihl.com/charging-times.

For a complete list of approximate battery run-times, see www.stihl.com/battery-life.

Bluetooth®

The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. These word mark/logos are used by STIHL under license.

If the battery is equipped with a Bluetooth® interface, local operating restrictions (in aircraft or hospitals, for example) must be observed.

Other Trademarks

Apple and the Apple logo are trademarks of Apple Inc., registered in the U.S. and other countries.

App Store is a service mark of Apple Inc.

Google Play and the Google Play logo are trademarks of Google Inc.

25.4 Ambient Temperature Limits



- Extreme temperatures can damage the battery and may also cause it to generate heat, rupture, leak, ignite or explode, resulting in severe or fatal personal injury or property damage. Never charge, use or store the battery outside the ambient temperature limits specified below.
 - Do not charge the battery below - 4 °F (- 20 °C) or above 122 °F (50 °C).
 - Do not use the blower or battery below - 4 °F (- 20 °C) or above 122 °F (50 °C).
 - Do not store the blower or battery below - 4 °F (- 20 °C) or above 158 °F (70 °C).

25.5 Ambient Temperature Recommendations

For optimum performance, observe the following ambient temperature ranges for the blower and battery:

- Charging: 41 °F to 104 °F (5 °C to 40 °C)
- Use: 14 °F to 104 °F (- 10 °C to 40 °C)
- Storage: - 4 °F to 122 °F (- 20 °C to 50 °C)

Charging, using or storing the battery outside the recommended ambient temperature ranges may reduce performance.

If the battery became damp or wet during operation, allow it to dry at least 48 hours at temperatures between 59 °F (15 °C) and 122 °F (50 °C) and relative humidity below 70 % before charging or storing. Higher humidity can extend the drying time.

25.6 Symbols on the Blower and Battery

Symbol	Explanation
V	Volt
A	Ampere
Ah	Ampere hour
W	Watt
Wh	Watt hour
DC	Direct current

¹Rated capacity calculated pursuant to IEC 61960. Usable energy available to the operator will be less.

²The battery is marked with its stored energy as provided by the cell manufacturer. Usable energy available to the operator will be less.

Symbol	Explanation
IPX4	Protection against spraying or splashing water from all directions.



Nozzle can be used for blowing heavy and wet leaves due to the increased airflow.



Slide the lock along the arrow to remove the nozzle.



Union nut is locked.



Union nut is unlocked.



Direct current



Number of cells and stored energy according to cell manufacturer's specification. Usable energy will be less.



STIHL products must not be disposed of in the household trash, but only in accordance with local, state and federal laws and regulations and as provided in this manual, [§ 27](#).



The RBRC seal indicates that STIHL has prepaid for battery recycling



The battery is equipped with Bluetooth® and can be connected with the STIHL connected App.

25.7 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 in your area for assistance.

25.8 FCC 15 Compliance Statement

This device (FCC ID: 2ALP8HMI2) complies with part 15 of the FCC Rules.

- Operation is subject to the following two conditions:
- 1) This device may not cause harmful interference, and
 - 2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications made to this equipment not expressly approved by STIHL may void the FCC authorization to operate this equipment.

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

26 Replacement Parts and Equipment

26.1 Genuine STIHL Replacement Parts

STIHL recommends the use of 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.

27 Disposal

27.1 Disposal of the Power Tool

STIHL products must not be thrown in household trash or disposed of except as outlined in this manual.

- ▶ Take the power tool, accessories and packaging to an approved disposal site for environmentally friendly recycling.
- ▶ Contact your authorized STIHL servicing dealer for the latest information on disposal and recycling.

27.2 Disposal of the Operating Unit

STIHL products must not be thrown in household trash or disposed of except as outlined in this manual.

A non-replaceable 1654 button cell battery is used in the operating unit.

- ▶ Observe all federal, state and local disposal rules and regulations.
- ▶ Contact your authorized STIHL servicing dealer for the latest information on disposal and recycling.

27.3 Battery Recycling

WARNING

- Handle discharged/depleted batteries carefully. Even if believed to be discharged, lithium ion batteries may never totally discharge and still may deliver a dangerous short circuit current. If damaged or exposed to extreme temperatures, they may leak, generate heat, catch fire or explode.
- ▶ Observe all federal, state and local disposal rules and regulations.
- ▶ Contact your authorized STIHL servicing dealer for the latest information on waste disposal.
- ▶ Recycle depleted batteries promptly.
- ▶ Keep batteries away from children. Do not disassemble and do not dispose of in fire.



STIHL is committed to the development of products that are environmentally responsible. This commitment does not stop when the product leaves the authorized STIHL servicing 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 indicates that STIHL has prepaid for battery recycling. RBRC 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 authorized STIHL servicing dealer for recycling free of charge.

28 Limited Warranty

28.1 STIHL Incorporated Limited Warranty Policy

This product is sold subject to the STIHL Incorporated Limited Warranty Policy, available at www.stihlusa.com/warranty.html. It can also be obtained from your authorized STIHL dealer or by calling 1-800-GO-STIHL (1-800-467-8445).

29 Trademarks

29.1 Registered Trademarks

STIHL®	FARM BOSS®
STIHL ®	iCademy®
	MAGNUM®
The color combination orange-grey (U.S. Registrations #2,821,860; #3,010,057, #3,010,058, #3,400,477; and #3,400,476)	MasterWrench Service®
AutoCut®	MotoMix®
YARD BOSS®	OIOMATIC®
STIHL ROLLO-MATIC®	ROCK BOSS®
WOOD BOSS®	STIHL Cutquik®
	STIHL DUROMATIC®
	STIHL Quickstop®
	STIHL WOOD BOSS®
	TIMBERSPORTS®
	

29.2 Common Law Trademarks

4-MIX™	HT Plus™
BioPlus™	STIHL PowerSweep™
Easy2Start™	STIHL Protech™
EasySpool™	STIHL MiniBoss™
ElastoStart™	STIHL MotoPlus 4™
Ematic™	Master Control Lever™
STIHL Precision Series™	STIHL OUTFITTERS™
FixCut™	STIHL PICCO™

Micro™	TrimCut™
Pro Mark™	STIHL M-Tronic™
Quad Power™	STIHL HomeScaper Series™
Quiet Line™	STIHL PolyCut™
STIHL Arctic™	STIHL RAPID™
STIHL Compact™	STIHL SuperCut™
STIHL Interchangeable Attachment Series™	STIHL Multi-Cut HomeScaper Series™
TapAction™	STIHL Territory™
	

This listing of trademarks is subject to change.
Any unauthorized use of these trademarks without the express written consent of ANDREAS STIHL AG & Co. KG, Waiblingen is strictly prohibited.

30 Addresses

30.1 STIHL Incorporated

STIHL Incorporated
536 Viking Drive
P.O. Box 2015
Virginia Beach, VA
23452-2015

⚠ WARNING

Use of this blower can disperse dust and other substances containing chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

⚠ ADVERTENCIA

El uso de este soplador puede dispersar polvo y otras sustancias que contienen productos químicos considerados por el Estado de California como causantes de cáncer, defectos de nacimiento u otra toxicidad reproductora.

⚠ WARNING

This blower and battery contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

⚠ ADVERTENCIA

Este soplador y esta batería contienen productos químicos considerados por el Estado de California como causantes de cáncer, defectos de nacimiento u otra toxicidad reproductora.



Instruction Manual
Manual de instrucciones