

BR 350, 430

STIHL



2 - 23 Instruction Manual



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1 Guide to Using this Manual

1.1 Pictograms

The meanings of the pictograms attached to the machine are explained in this manual.

Depending on the model concerned, the following pictograms may be attached to your machine.



Fuel tank; fuel mixture of gasoline and engine oil



Operate manual fuel pump

1.2 Symbols in text



WARNING

Warning where there is a risk of an accident or personal injury or serious damage to property.

NOTICE

Caution where there is a risk of damaging the machine or its individual components.

1.3 Engineering improvements

STIHL's philosophy is to continually improve all of its products. For this reason we may modify the design, engineering and appearance of our products periodically.

Therefore, some changes, modifications and improvements may not be covered in this manual.

2 Safety Precautions and Working Techniques



Special safety precautions must be observed when working with a power tool.



It is important that you read the instruction manual before first use and keep it in a safe place for future reference. Non-observance of the instruction manual may result in serious or even fatal injury.

Observe all applicable local safety regulations, standards and ordinances.

If you have not used this model before: Have your dealer or other experienced user show you how it is operated or attend a special course in its operation.

Minors should never be allowed to use this product.

Keep bystanders, especially children, and animals away from the work area.

When the power tool is not in use, put it in a place where it does not endanger others. Secure it against unauthorized use.

The user is responsible for avoiding injury to third parties or damage to their property.

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

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

Do not operate your power tool if any of its components are damaged.

Do not use a pressure washer to clean your power tool. The solid jet of water may damage parts of the power tool.

2.1 Accessories and replacement parts

Only use parts and accessories that are explicitly approved for this power tool by STIHL or are technically identical. If you have any questions in this respect, consult a servicing dealer. Use only high quality parts and accessories in order to avoid the risk of accidents and damage to the machine.

STIHL recommends the use of original STIHL replacement parts and accessories. They are specifically designed to match the product and meet your performance requirements.

Never attempt to modify your machine in any way since this may increase the risk of personal injury. STIHL excludes all liability for personal injury and damage to property caused while using unauthorized attachments.

2.2 Physical Condition

To operate this power tool you must be rested, in good physical condition and mental health.

If you have any condition that might be aggravated by strenuous work, check with your doctor before operating a power tool.

Persons with pacemakers only: The ignition system of your power tool produces an electromagnetic field of a very low intensity. This field may interfere with some pacemakers. To reduce health risks, STIHL recommends that persons with pacemakers consult their physician and the pacemaker manufacturer before operating this power tool.

Do not operate the sprayer if you are under the influence of any substance (drugs, alcohol) which might impair vision, dexterity or judgment.

2.3 Intended Use

The blower is designed for blow-sweeping leaves, grass, paper and similar materials, e.g. in gardens, sports stadiums, car parks and drive-

ways. It is also suitable for blow-sweeping forest paths.

Do not blow-sweep hazardous materials.

Do not use the machine for any other purpose because of the increased risk of accidents and damage to the machine. Never attempt to modify the product in any way since this may result in accidents or damage to the product.

2.4 Clothing and Equipment

Wear proper protective clothing and equipment.



Clothing must be sturdy but allow complete freedom of movement. Wear snug-fitting clothing, an overall and jacket combination, do not wear a work coat.



Avoid clothing with loose drawstrings, laces and ribbons, scarves, neckties, jewelry or anything that could be sucked into the air intake in the side and bottom of the machine. Tie up and confine long hair so that it cannot be sucked into the machine.

Wear sturdy shoes with non-slip soles.



WARNING



To reduce the risk of eye injuries, wear close-fitting safety glasses in accordance with European Standard EN 166. Make sure the safety glasses are a comfortable and snug fit.

Wear hearing protection, e.g. earplugs or ear muffs.

STIHL offers a comprehensive range of personal protective clothing and equipment.

2.5 Transporting the Power Tool

Always shut off the engine.

Transporting in a vehicle:

- Properly secure your power tool to prevent turnover, fuel spillage and damage.

2.6 Fueling



Gasoline is an extremely flammable fuel. Keep clear of naked flames. Do not spill any fuel – do not smoke.

Always **shut off the engine** before refueling.

Do not fuel a hot engine – fuel may spill and **cause a fire**.

Always remove the power tool from your back and put it on the ground before refueling. Fuel the machine only when it is standing on the ground.

Open the fuel cap carefully to allow any pressure build-up in the tank to release slowly and avoid fuel spillage.

Fuel your power tool only in well-ventilated areas. If you spill fuel, wipe the machine immediately – if fuel gets on your clothing, change immediately.



Check for leakage. To reduce the **risk of serious or fatal burn injuries**, do not start or run the engine until leak is fixed.

Screw-type fuel cap



After fueling, tighten down the screw-type fuel cap as securely as possible.

This reduces the risk of unit vibrations causing the fuel cap to loosen or come off and spill quantities of fuel.

2.7 Before Starting

Check that your power tool is properly assembled and in good condition – refer to appropriate chapters in the instruction manual.

- Check the fuel system for leaks, paying special attention to visible parts such as the tank cap, hose connections and the manual fuel pump (on machines so equipped). If there are any leaks or damage, do not start the engine – **risk of fire**. Have your machine repaired by a servicing dealer before using it again.
- Throttle trigger must move freely and spring back to the idle position when released.
- The setting lever must move easily to **STOP** or **0**
- The blower tubes must be properly assembled.
- Keep the handles dry and clean – free from oil and dirt – for safe control of the power tool.
- Check that the spark plug boot is secure – a loose boot may cause arcing that could ignite leaking fuel-air mixture **and cause a fire**.
- Never attempt to modify the controls or the safety devices in any way.
- Check condition of blower housing.
- Check condition of harness straps and backpack – replace damaged or worn straps.

A worn blower housing (cracks, nicks, chips) may result in an increased risk of injury from

thrown foreign objects. If the blower housing is damaged, consult your dealer – STIHL recommends you contact a STIHL servicing dealer.

To reduce the risk of accidents, do not operate your power tool if it is not in a safe condition.

For emergencies: Practice quickly opening the fastener on the waist belt, loosening the shoulder straps and setting down the unit.

2.8 Start the engine.

Start the engine at least 3 meters from the fueling spot, outdoors only.

Your power tool is designed to be operated by one person only. Do not allow other persons in the work area – even when starting.

Do not drop start the power tool – start the engine as described in the instruction manual.

Place the power tool on level ground, make sure you have secure footing, hold the power tool securely.

As soon as the engine starts, the air flow may throw small objects (e.g. stones) in your direction.

2.9 During Operation

In the event of impending danger or in an emergency, switch off the engine immediately by moving the setting lever to **STOP** or **0**.



To reduce the risk of injury from thrown objects, do not allow any other persons within 15 meters of your own position.

To reduce the risk of damage to property, also maintain this distance from other objects (vehicles, windows).



Do not direct the air blast towards bystanders or animals since the air flow can blow small objects at great speed – **risk of injury**.

When blow-sweeping (in open ground and gardens), watch out for small animals to avoid harming them.

Never leave a running machine unattended.

Take special care in slippery conditions – damp, snow, ice, on slopes and uneven ground.

Watch out for obstacles: Be careful of refuse, tree stumps, roots and ditches which could **cause you to trip or stumble**.

Never work on a ladder or any other insecure support.

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

Work calmly and carefully – in daylight conditions and only when visibility is good. Stay alert so as not to endanger others.

To reduce the risk of accidents, take a break in good time to avoid tiredness or exhaustion.



Your power tool produces **toxic exhaust fumes** as soon as the engine is running. These fumes may be colorless and odorless and contain unburned hydrocarbons and benzol. Never run the engine indoors or in poorly ventilated locations, even if your model is equipped with a catalytic converter.

To reduce the risk of serious or fatal injury from breathing toxic fumes, ensure proper ventilation when working in trenches, hollows or other confined locations.

To reduce the risk of accidents, stop work immediately in the event of nausea, headache, visual disturbances (e.g. reduced field of vision), problems with hearing, dizziness, deterioration in ability to concentrate. Apart from other possibilities, these symptoms may be caused by an excessively high concentration of exhaust gases in the work area.

To reduce the risk of fire, do not smoke while operating or standing near your power tool. Note that combustible fuel vapor may escape from the fuel system.

If dust levels are very high, always wear a suitable respirator.

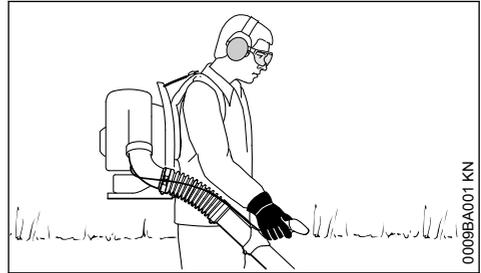
Operate your power tool so that it produces a minimum of noise and emissions – do not run the engine unnecessarily, accelerate the engine only when working.

After finishing work, put the unit down on a level, non-flammable surface. **To reduce the risk of fire**, do not put it down near easily combustible materials (e.g. wood chips, bark, dry grass, fuel).

If your power 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 – see also "Before Starting Work". Check the fuel system in particular for leaks and make sure the safety devices are working properly. Do not continue

operating your power tool if it is damaged. In case of doubt, consult your servicing dealer.

2.10 Using the Blower



The machine is carried as a backpack. Hold and control the blower tube with your right hand on the control handle.

Walk slowly forwards as you work – observe the nozzle outlet at all times – do not walk backwards – **risk of stumbling**.

Always shut off the engine before taking the machine off your back.

2.11 Working Technique

To minimize blowing time, use a rake and broom to loosen dirt particles before you start blowing.

- If necessary, dampen the surface to be cleaned in order to avoid creating too much dust.
- Do not blow particles in the direction of bystanders, in particular in the direction of children, pets, open windows or freshly washed vehicles. Take special care in such situations.
- Remove the blow-swept debris in rubbish bins – do not blow it onto the neighbor's land.
- Operate your power tool at reasonable times only – not early in the morning, late at night or during midday rest periods when people could be disturbed. Observe local rest periods.
- Operate blowers at the lowest engine speed necessary to accomplish the task.
- Check your blower before starting work. Pay special attention to the muffler, air intakes and air filter.

2.12 Vibrations

Prolonged use of the power tool may result in vibration-induced circulation problems in the hands (whitefinger disease).

No general recommendation can be given for the length of usage because it depends on several factors.

The period of usage is prolonged by:

- Keeping your hands warm
- Work breaks

The period of usage is shortened by:

- Any personal tendency to suffer from poor circulation (symptoms: frequently cold fingers, itching).
- Low outside temperatures.
- Gripping force (a tight grip hinders circulation).

Continual and regular users should monitor closely the condition of their hands and fingers. If any of the above symptoms appear (e.g. tingling sensation in fingers), seek medical advice.

2.13 Maintenance and Repairs

Service the machine regularly. Do not attempt any maintenance or repair work not described in the instruction manual. Have all other work performed by a servicing dealer.

STIHL recommends that you have servicing and repair work carried out exclusively by an authorized STIHL servicing dealer. STIHL dealers are regularly given the opportunity to attend training courses and are supplied with the necessary technical information.

Only use high-quality replacement parts in order to avoid the risk of accidents and damage to the machine. If you have any questions in this respect, consult a servicing dealer.

STIHL recommends the use of genuine STIHL replacement parts. They are specifically designed to match your model and meet your performance requirements.

To reduce the risk of injury, **always shut off the engine** before carrying out any maintenance or repairs or cleaning the machine. – Exception: Carburetor and idle speed adjustments.

Do not turn the engine over on the starter with the spark plug boot or spark plug removed since there is otherwise a **risk of fire** from uncontained sparking.

Do not service or store your machine near open flames.

Check the fuel filler cap for leaks at regular intervals.

Use only a spark plug of the type approved by STIHL and make sure it is in good condition – see "Specifications".

Inspect the ignition lead (insulation in good condition, secure connection).

Check the condition of the muffler.

To reduce the **risk of fire and damage to hearing**, do not operate your machine if the muffler is damaged or missing.

Do not touch a hot muffler since **burn injury** will result.

Vibration behavior is influenced by the condition of the AV elements – check the AV elements at regular intervals.

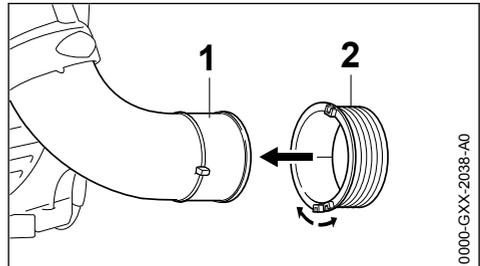
Shut off the engine before rectifying problems.

3 Assembling the Unit

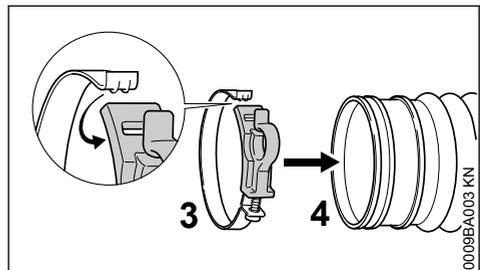
The combination wrench and screwdriver are in the supplied accessory bag.

3.1 BR 350 Blower Tube

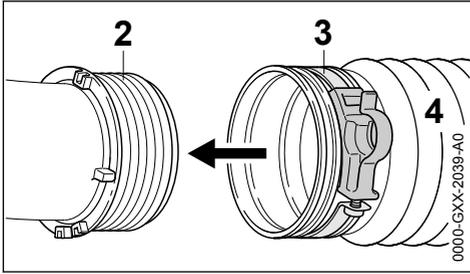
Fitting the pleated hose on the elbow



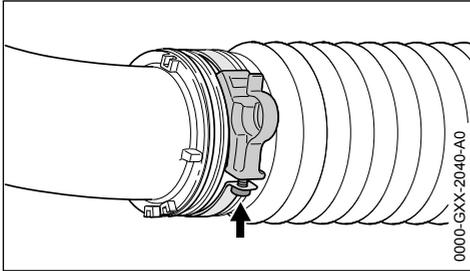
- ▶ Ease the slip ring (2) apart and push it over the elbow (1).



- ▶ Open the hose clamp (3) and fit it on the pleated hose (4).
- ▶ Close the hose clamp (3) – engage tab in recess.

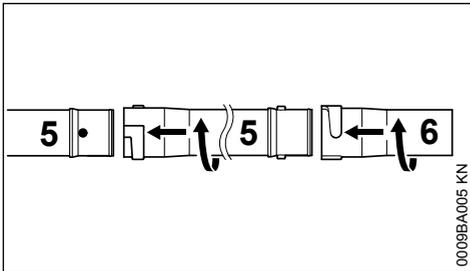


- ▶ Push the pleated hose (4) over the slip ring (2) as far as stop.
- ▶ Position the hose clamp (3) as shown in the illustration.



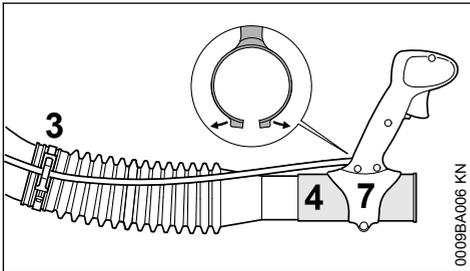
- ▶ Tighten down the screw (arrow).

Mounting the blower tubes and nozzle



- ▶ Assemble the blower tubes (5) and nozzle (6).

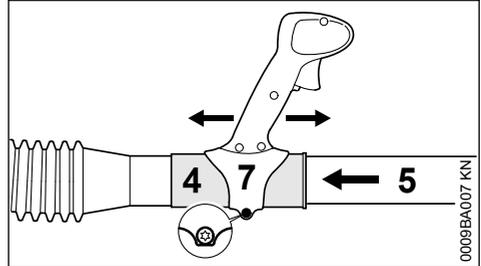
Mounting the control handle



- ▶ Pull the ends of the clamp on the control handle (7) apart and push it over stub of pleated hose (4).
- ▶ Attach throttle cable to retainer on the hose clamp (3).

Adjusting the control handle

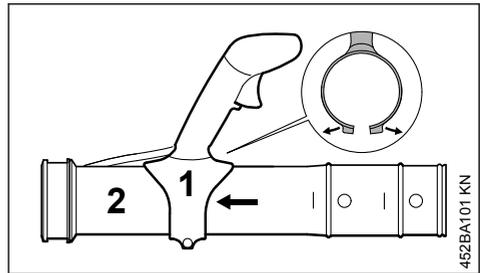
- ▶ Put the machine on your back and adjust the harness – see "Fitting the Harness".



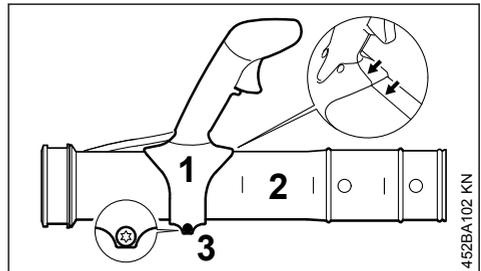
- ▶ Push the blower tube (5) into the stub of pleated hose (4) as far as the stop.
- ▶ Move the control handle (7) along the tube to the most comfortable position.
- ▶ Tighten down the screw in the control handle (7).

3.2 BR 430 Blower Tube

Mounting the control handle

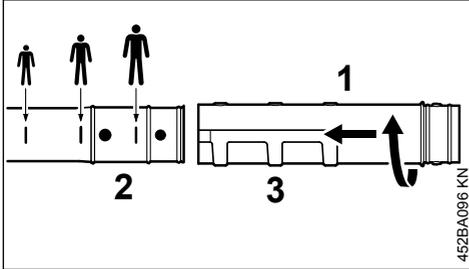


- ▶ Pull the two halves of the clamp apart.
- ▶ Push the control handle (1) onto the blower tube (2).



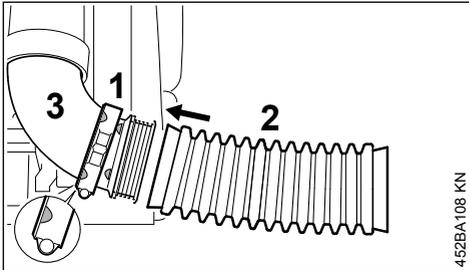
- ▶ Line up the control handle (1) with the tube's seam – as shown.
- ▶ Secure the control handle (1) with the screw (3) so that it can still be moved on the blower tube (2).

Mounting the blower tubes

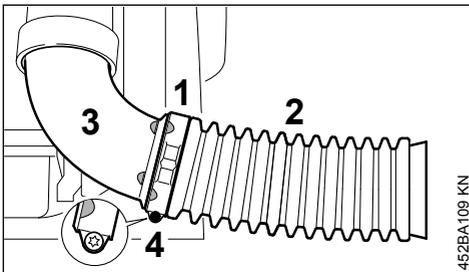


- ▶ Depending on your height and reach: Push blower tube (1) up to the appropriate mark on the blower tube (2).
- ▶ Rotate the blower tube (1) in the direction of the arrow and engage it in the appropriate slot (3).

Mounting the hose clamps and pleated hose

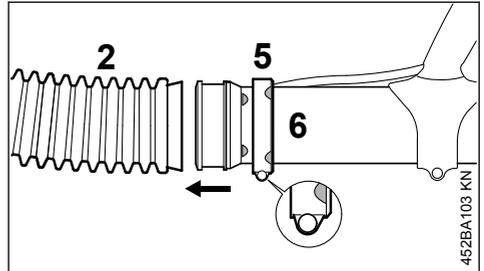


- ▶ Push the hose clamp (1) (with retainer for throttle cable) onto the elbow (3) – the positioning marks must face to the left.
- ▶ Push the pleated hose (2) over the elbow (3).

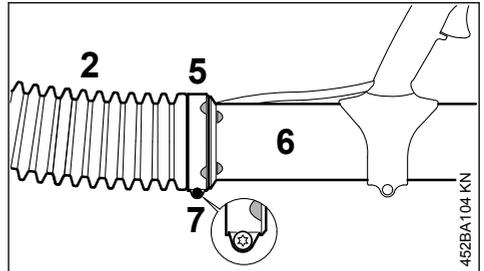


- ▶ Push the hose clamp (1) onto the pleated hose (2).

- ▶ Line up the positioning marks on the hose clamp (1) and elbow (3) – the screw recess facing down.
- ▶ Secure the hose clamp (1) with the screw (4).

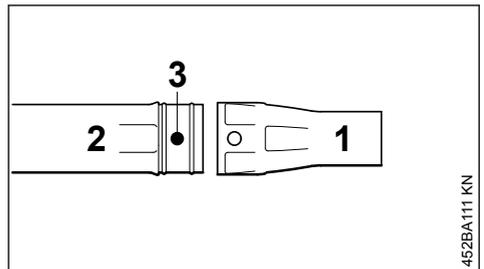


- ▶ Push the hose clamp (5) (without retainer for throttle cable) onto the elbow (6) – the positioning marks must face to the right.
- ▶ Push the blower tube (6) into the pleated hose (2).

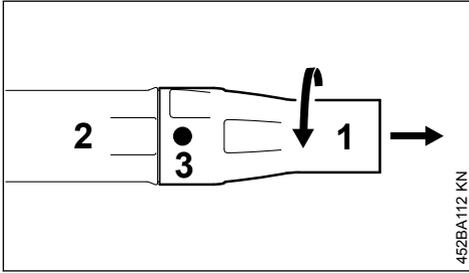


- ▶ Push the hose clamp (5) onto the pleated hose (2).
- ▶ Line up the hose clamp (5) and blower tube (6) – as shown.
- ▶ Secure the hose clamp (5) with the screw (7).

Mounting the nozzle



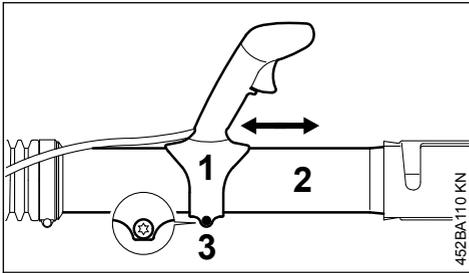
- ▶ Push the nozzle (1) onto the blower tube (2) and engage it on the lugs (3).

Removing the nozzle

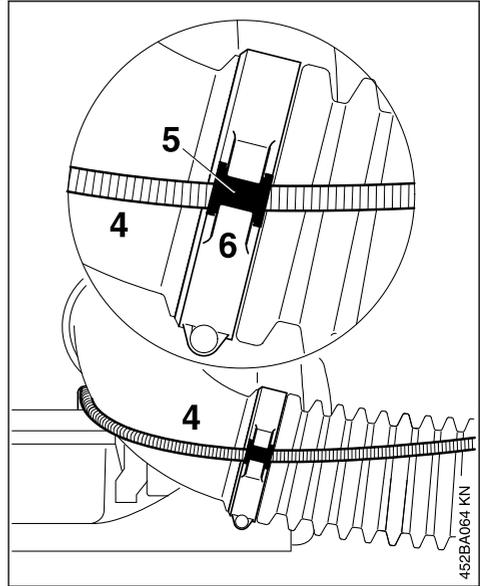
- ▶ Rotate the nozzle (1) in the direction of the arrow until the lugs (3) are covered.
- ▶ Pull the nozzle (1) off the blower tube (2).

Adjusting the control handle

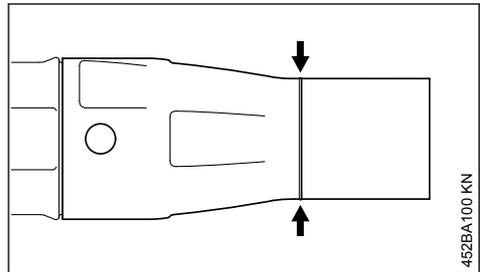
- ▶ Put the machine on your back and adjust the harness – see "Fitting the Harness".



- ▶ Move the control handle (1) along the blower tube (2) to the most comfortable position.
- ▶ Secure the control handle (1) with the screw (3).



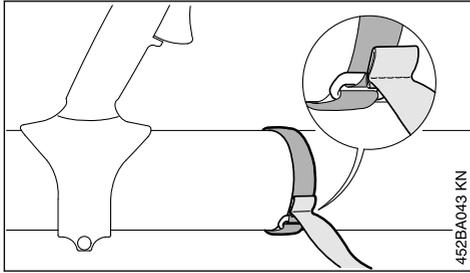
- ▶ Engage the throttle cable (4) with sleeve (5) in the retainer (6).

Wear mark on nozzle

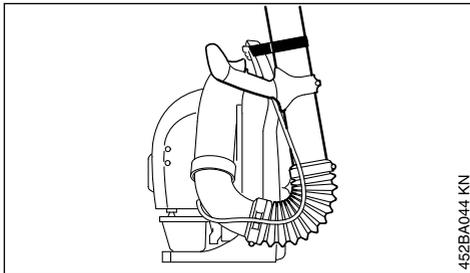
The front end of the nozzle wears away due to abrasive ground contact during operation. The nozzle is subject to normal wear and tear and must be replaced when the wear mark is reached.

Fitting the transport aid

When storing or transporting the machine:



- ▶ Secure the hook and loop fastener to the blower tube – pull the flap through the buckle.

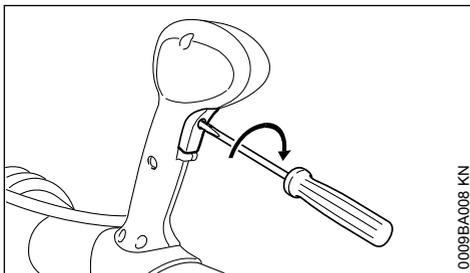


- ▶ Secure the blower tube to the handle on the backplate.

4 Adjusting the Throttle Cable

It may be necessary to correct the adjustment of the throttle cable after assembling the machine or after a prolonged period of operation.

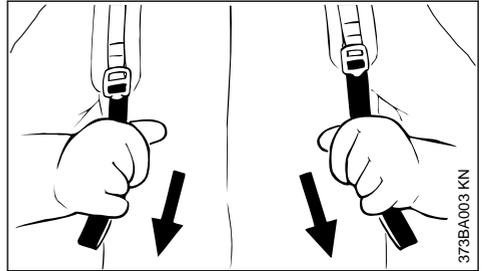
Adjust the throttle cable only when the unit is completely and properly assembled.



- ▶ Set throttle trigger to the full throttle position – as far as stop.
- ▶ Carefully rotate the screw in the throttle trigger in the direction of the arrow until you feel initial resistance. Then rotate it another full turn.

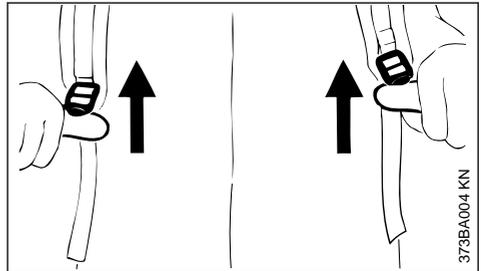
5 Fitting the Harness

5.1 Adjusting the Harness



- ▶ Pull the straps downwards to tighten the harness

5.2 Loosening the Harness



- ▶ Lift the tabs of the two sliding adjusters.
- ▶ Adjust the harness so that the backplate fits snugly and securely against your back

6 Fuel

The engine requires a mixture of gasoline and engine oil.



Avoid direct skin contact with fuel and breathing in of gasoline fumes.

6.1 STIHL MotoMix

STIHL recommends using STIHL MotoMix. This pre-blended fuel is free of benzene and lead, is distinguished by a high octane rating, and always provides the proper mixing ratio.

STIHL MotoMix uses STIHL HP Ultra two-stroke engine oil for optimum engine life.

MotoMix is not available in all markets.

6.2 Mixing fuel

NOTICE

Unsuitable fuels or a mixing ratio that deviates from the specification can lead to severe engine damage. The engine, seals, fuel lines and fuel tank may be damaged if low-quality gasoline or engine oil is used.

6.2.1 Gasoline

Use only **high-quality gasoline** with an octane rating of at least 90 ROC – leaded or unleaded.

Gasoline with an alcohol component exceeding 10% can cause impaired engine performance in engines with manually adjustable carburetors and thus should not be used in these engines.

Engines with M-Tronic deliver full engine performance using gasoline with an alcohol component of up to 27% (E27).

6.2.2 Engine oil

If you mix the fuel yourself, use only STIHL two-stroke engine oil or another high-performance engine oil classified as JASO FB, JASO FC, JASO FD, ISO-L-EGB, ISO-L-EGC or ISO-L-EGD.

STIHL specifies STIHL HP Ultra two-stroke engine oil or an equivalent high-performance engine oil in order to maintain emission limits over the machine's service life.

6.2.3 Mixing ratio

with STIHL two-stroke engine oil 1:50; 1:50 = 1 part oil + 50 parts gasoline

6.2.4 Examples

Quantity of gasoline	STIHL two-stroke engine oil 1:50	
Liters	Liters	(ml)
1	0.02	(20)
5	0.10	(100)
10	0.20	(200)
15	0.30	(300)
20	0.40	(400)
25	0.50	(500)

- Pour oil into an approved safety fuel canister first, then add gasoline and mix thoroughly

6.3 Storing fuel mixture

Store in approved safety fuel canisters only in a dry, cool and secure place protected against light and sunlight.

Fuel mixture deteriorates with age – mix only as much as needed for a few weeks. Do not store fuel mixture for longer than 30 days. The fuel mixture can become unusable more quickly if exposed to light, sunlight or low or high temperatures.

STIHL MotoMix however can be stored for up to 5 years without any problems.

- Shake the canister containing the fuel mixture thoroughly before refueling

! WARNING

Pressure may have built up in the canister – open it carefully.

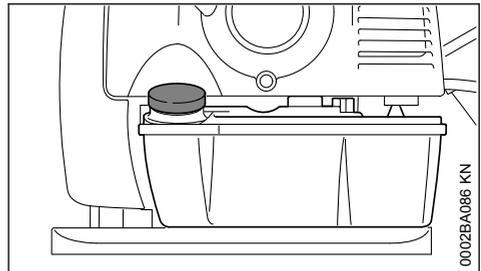
- The fuel tank and the canister in which fuel mixture is stored should be cleaned thoroughly from time to time

Residual fuel and the liquid used for cleaning must be disposed of in accordance with regulations and without harming the environment!

7 Fueling

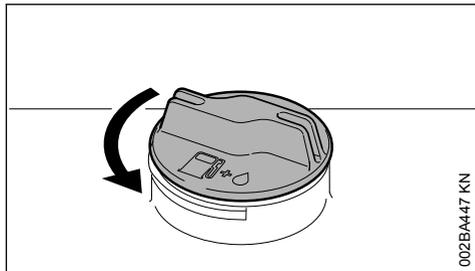


7.1 Preparations



- Before fueling, clean the filler cap and the area around it to ensure that no dirt falls into the tank.
- Position the machine so that the filler cap faces up.

7.2 Opening screw-type tank cap

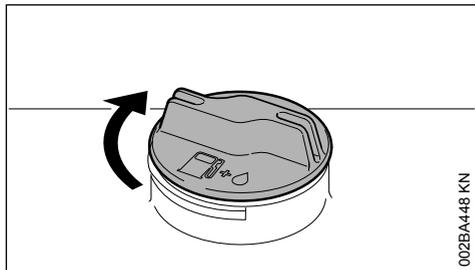


- ▶ Turn the cap counterclockwise until it can be removed from the tank opening.
- ▶ Remove the cap.

7.3 Filling up with fuel

Take care not to spill fuel while fueling and do not overfill the tank. STIHL recommends you use the STIHL filler nozzle (special accessory).

7.4 Closing screw-type tank cap



- ▶ Place the cap in the opening.
- ▶ Turn the cap clockwise as far as stop and tighten it down as firmly as possible by hand.

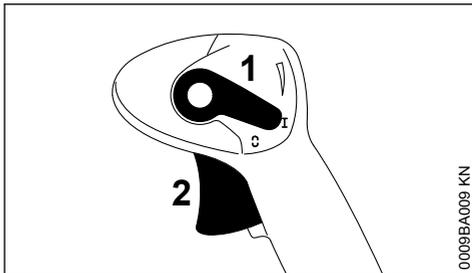
8 Information Before You Start

NOTICE

With the engine stopped and before starting, check the air intakes between the backplate and powerhead for blockages and clean if necessary.

8.1 Functions of setting lever

The power tool is equipped with different types of control handle.



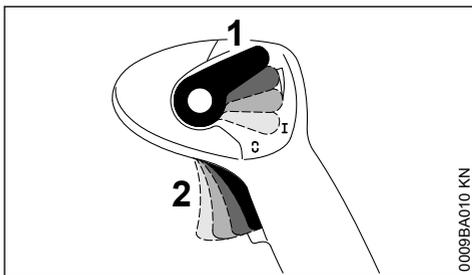
Run position I

Engine runs or is ready to start. Throttle trigger (2) can be moved to any position.

Switch off engine 0

Ignition is interrupted, engine stops. The setting lever (1) is not locked in this position. It springs back to the run position I. The ignition is again ready for operation.

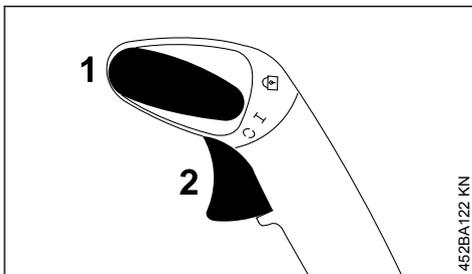
Fixed throttle



The throttle trigger (2) can be locked in any position:

To disengage the lock:

- ▶ Return the setting lever (1) to the run position I.



Run position I

Engine runs or is ready to start. Throttle trigger (2) can be moved to any position.

Switch off engine 

Ignition is interrupted, engine stops. The setting lever (1) is not locked in this position. It springs back to the run position **I**. The ignition is again ready for operation.

Lock position 

The throttle trigger (2) can be locked in three positions: 1/3 throttle, 2/3 throttle and full throttle. To disengage the lock, move the setting lever (1) back to the normal run position **I**.

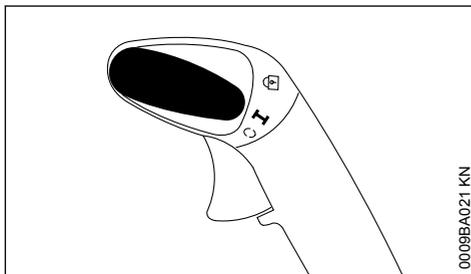
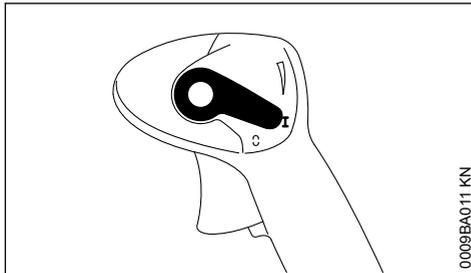
9 Starting / Stopping the Engine

9.1 Starting the Engine

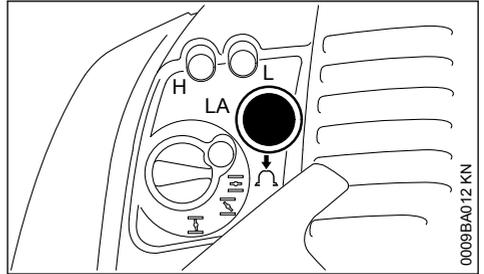
► Observe safety precautions.

NOTICE

Start your unit on a clean, dust-free surface only to ensure that no dust is sucked in.

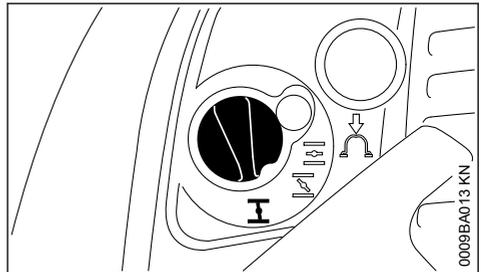


► The setting lever must be on **I**



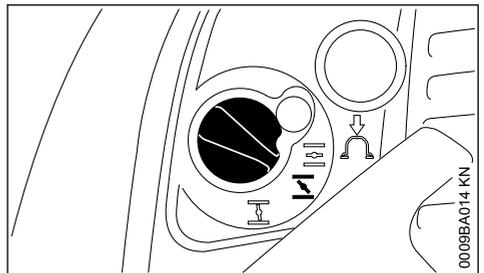
► Press the fuel pump bulb at least eight times – even if the bulb is filled with fuel.

9.1.1 Cold engine (cold start)



► Push the choke knob in and turn it to **II**.

9.1.2 Warm engine (warm start)



► Push the choke knob in and turn it to **III**.

Also use this setting if the engine has been running but is still cold.

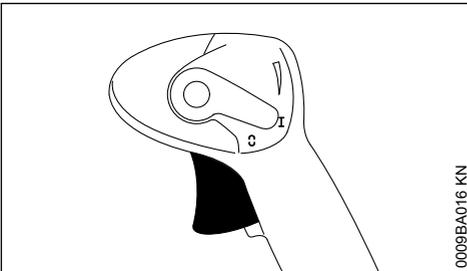
9.1.3 Cranking



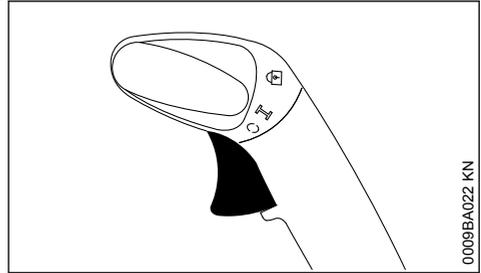
0009BA028 KN

- ▶ Place the unit securely on the ground and make sure that bystanders are well clear of the nozzle outlet.
- ▶ Make sure you have a firm footing: Hold the unit with your left hand on the housing and put one foot against the base plate to prevent it slipping.
- ▶ Pull the starter grip slowly with your right hand until you feel it engage and then give it a brisk strong pull. Do not pull out the starter rope to full length – **it might otherwise break**.
- ▶ Do not let the starter grip snap back. Guide it slowly back into the housing so that the starter rope can rewind properly.
- ▶ Continue cranking until the engine runs.

9.2 As soon as the engine runs

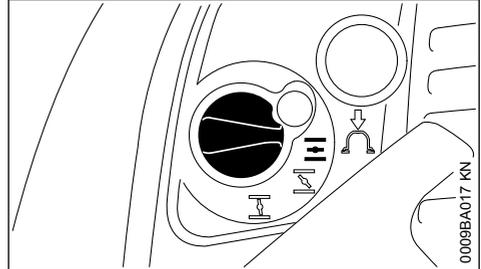


0009BA016 KN



0009BA022 KN

- ▶ Operate the throttle trigger.



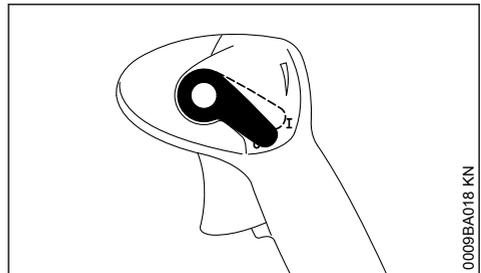
0009BA017 KN

- ▶ Choke knob automatically returns to the run position \rightleftarrows when the throttle trigger is operated.

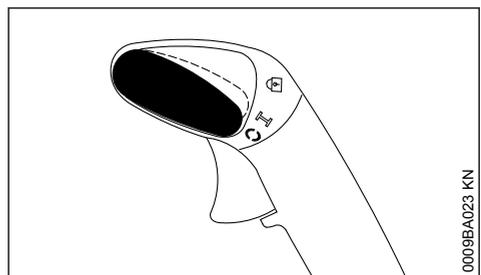
9.2.1 At very low outside temperatures

- ▶ Open throttle slightly – warm up the engine for a short period.

9.3 Stopping the Engine



0009BA018 KN



0009BA023 KN

- ▶ Move the setting lever in the direction of  – the engine stops – the setting lever springs back to the on position.

9.4 Other Hints on Starting

Engine stalls in cold start position or under acceleration

- ▶ Move the choke knob to  and continue cranking until the engine runs.

Engine does not start in warm start position

- ▶ Move the choke knob to  and continue cranking until the engine runs.

If the engine does not start

- ▶ Check that all settings are correct.
- ▶ Check that there is fuel in the tank and refuel if necessary.
- ▶ Check that the spark plug boot is properly connected.
- ▶ Repeat the starting procedure.

Fuel tank run until completely dry

- ▶ After refueling, press the manual fuel pump bulb at least five times – even if the bulb is filled with fuel.
- ▶ Set the choke knob according to engine temperature.
- ▶ Start the engine.

10 Operating Instructions

10.1 During Operation

After a long period of full throttle operation, allow the engine to run for a short while at idle speed so that engine heat can be dissipated by the flow of cooling air. This helps protect engine-mounted components (ignition, carburetor) from thermal overload.

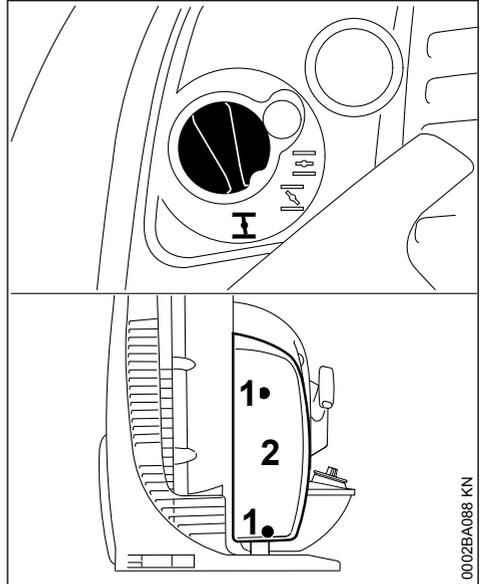
10.2 After Finishing Work

Storing for a short period: Wait for the engine to cool down. Keep the machine in a dry place, well away from sources of ignition, until you need it again. For longer out-of-service periods – see "Storing the Machine".

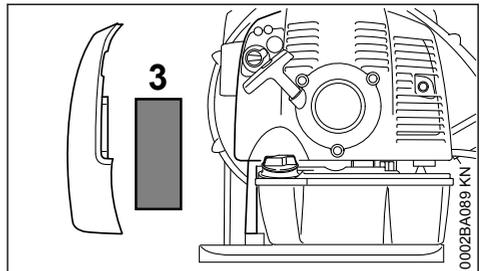
11 Replacing the Air Filter

Dirty air filters reduce engine power, increase fuel consumption and make starting more difficult.

11.1 If there is a noticeable loss of engine power



- ▶ Turn the choke knob to .
- ▶ Loosen the screws (1).
- ▶ Remove the filter cover (2).



- ▶ Remove the filter element (3).
- ▶ Replace dirty or damaged filters.
- ▶ Fit the new filter in the filter housing.
- ▶ Fit the filter cover.
- ▶ Fit the screws and tighten them down firmly.

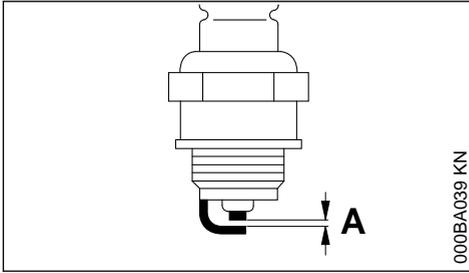
12 Adjusting the Carburetor

12.1 General Information

The carburetor comes from the factory with a standard setting.

This setting provides an optimum fuel-air mixture under most operating conditions.

13.2 Checking the Spark Plug

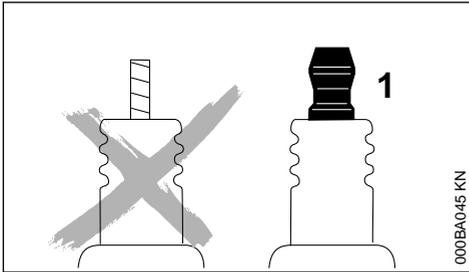


000BA039 KN

- ▶ Clean dirty spark plug.
- ▶ Check electrode gap (A) and readjust if necessary – see "Specifications".
- ▶ Rectify the problems which have caused fouling of the spark plug.

Possible causes are:

- Too much oil in fuel mix.
- Dirty air filter.
- Unfavorable running conditions.



000BA045 KN



WARNING

Arcing may occur if the adapter nut (1) is loose or missing. Working in an easily combustible or explosive atmosphere may cause a fire or an explosion. This can result in serious injuries or damage to property.

- ▶ Use resistor type spark plugs with a properly tightened adapter nut.

13.3 Installing the spark plug

- ▶ Screw home the spark plug, fit the boot and press it down firmly.

14 Engine Running Behavior

If engine running behavior is unsatisfactory even though the air filter is clean and the carburetor is properly adjusted, the cause may be the muffler.

Have the muffler checked for contamination (carbonization) by your servicing dealer.

STIHL recommends that you have servicing and repair work carried out exclusively by an authorized STIHL servicing dealer.

15 Storing the Machine

If out of use for periods of about 30 days or longer

- ▶ Drain and clean the fuel tank in a well ventilated area.
- ▶ Dispose of fuel properly in accordance with local environmental requirements.
- ▶ If a manual fuel pump is fitted: Press the manual fuel pump at least 5 times.
- ▶ Start the engine and run it at idling speed until it stops
- ▶ Thoroughly clean the machine, especially the cylinder fins and air filter.
- ▶ Store the machine in a dry and safe location. Keep out of the reach of children and other unauthorized persons

16 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.		before starting work	after finishing work or daily	after each refueling stop	weekly	monthly	every 12 months	if problem	if damaged	as required
Complete machine	Visual inspection (condition, leaks)	X		X						
	Clean		X							
Control handle	Check operation	X		X						
Air filter	Clean							X		
	Replace								X	
Manual fuel pump	Check	X								
	Have repaired by servicing dealer ¹⁾								X	
Pickup body in fuel tank	Have checked by servicing dealer ¹⁾							X		
	Have replaced by servicing dealer ¹⁾						X			X
Fuel tank	Clean					X				
Carburetor	Check idle adjustment	X		X						
	Readjust idle									X
Spark plug	Readjust electrode gap							X		
	Replace after every 100 operating hours									
Cooling inlet	Visual inspection		X							
	Clean									X
All accessible screws and nuts (not adjusting screws)	Retighten									X
Anti-vibration elements	Check	X						X		X
	Have replaced by servicing dealer ¹⁾								X	
Blower air intake screen	Check	X		X						
	Clean									X
Throttle cable	Adjust									X
Safety labels	Replace								X	

¹⁾STIHL recommends an authorized STIHL servicing dealer.

17 Minimize Wear and Avoid Damage

Observing the instructions in this manual helps reduce the risk of unnecessary wear and damage to the power tool.

The power tool must be operated, maintained and stored with the due care and attention described in this owner's manual.

The user is responsible for all damage caused by non-observance of the safety precautions, oper-

ating and maintenance instructions in this manual. This includes in particular:

- Alterations or modifications to the product not approved by STIHL.
- Using tools or accessories which are neither approved or suitable for the product or are of a poor quality.
- Using the product for purposes for which it was not designed.
- Using the product for sports or competitive events.
- Consequential damage caused by continuing to use the product with defective components.

17.1 Maintenance Work

All the operations described in the "Maintenance Chart" must be performed on a regular basis. If these maintenance operations cannot be performed by the owner, they should be performed by a servicing dealer.

STIHL recommends that you have servicing and repair work carried out exclusively by an authorized STIHL servicing dealer. STIHL dealers are regularly given the opportunity to attend training courses and are supplied with the necessary technical information.

If these maintenance operations are not carried out as specified, the user assumes responsibility for any damage that may occur. Among other parts, this includes:

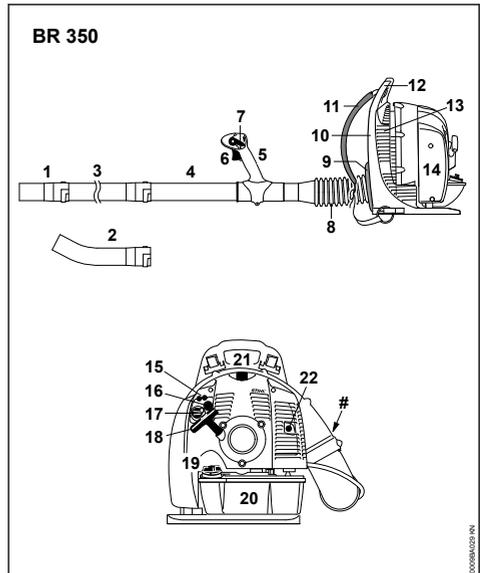
- Damage to the engine due to neglect or deficient maintenance (e.g. air and fuel filters), incorrect carburetor adjustment or inadequate cleaning of cooling air inlets (intake ports, cylinder fins).
- Corrosion and other consequential damage resulting from improper storage.
- Damage to the machine resulting from the use of poor quality replacement parts.

17.2 Parts Subject to Wear and Tear

Some parts of the power tool are subject to normal wear and tear even during regular operation in accordance with instructions and, depending on the type and duration of use, have to be replaced in good time. Among other parts, this includes:

- Filters (air, fuel)
- Rewind starter
- Spark plug
- Damping elements of anti-vibration system

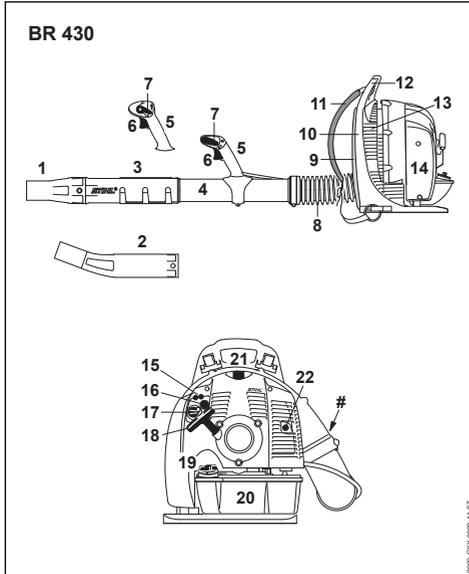
18 Main Parts



- 1 Straight nozzle¹⁾
- 2 Curved nozzle¹⁾
- 3 Blower tube
- 4 Blower tube
- 5 Control handle
- 6 Throttle trigger
- 7 Setting lever
- 8 Pleated hose
- 9 Back padding
- 10 Backplate
- 11 Harness
- 12 Carrying handle
- 13 Intake screen
- 14 Filter cover
- 15 Carburetor adjusting screws
- 16 Manual fuel pump
- 17 Choke knob
- 18 Starter grip
- 19 Tank cap
- 20 Fuel tank
- 21 Spark plug boot

22 Muffler

Serial number



- 1 Straight nozzle¹⁾
- 2 Curved nozzle¹⁾
- 3 Blower tube
- 4 Blower tube
- 5 Control handle
- 6 Throttle trigger
- 7 Setting lever
- 8 Pleated hose
- 9 Back padding
- 10 Backplate
- 11 Harness
- 12 Carrying handle
- 13 Intake screen
- 14 Filter cover
- 15 Carburetor adjusting screws
- 16 Manual fuel pump
- 17 Choke knob
- 18 Starter grip
- 19 Tank cap

20 Fuel tank**21 Spark plug boot****22 Muffler**

Serial number

19 Specifications**19.1 Engine**

STIHL single cylinder two-stroke engine

Displacement:	63.3 cm ³
Bore:	48 mm
Stroke:	35 mm
Idle speed:	3,000 rpm
Engine power to ISO 7293:	
BR 350:	2.1 kW (2.8 bhp)
BR 430:	2.9 kW (3.9 bhp)

19.2 Ignition System

Electronic magneto ignition

Spark plug (resistor type): NGK BPMR 7 A,
BOSCH WSR 6 F

Electrode gap: 0.5 mm

19.3 Fuel System

All position diaphragm carburetor with integral fuel pump

Fuel tank capacity: 1700 cc (1.7 l)

19.4 Blowing performance**19.4.1 BR 350**

Blowing force	17 N
Air velocity:	75 m/s
Air flow rate:	740 m ³ /h
Maximum air velocity	90 m/s
Maximum air flow rate without blower tube assembly:	1150 m ³ /h

19.4.2 BR 430

Blowing force	26 N
Air velocity:	82 m/s
Air flow rate:	850 m ³ /h
Maximum air velocity	98 m/s
Maximum air flow rate without blower tube assembly:	1300 m ³ /h

19.5 Weight

dry:	
BR 350:	10.1 kg
BR 430:	10.3 kg

¹⁾ Not in all versions, country-specific

19.6 Noise and Vibration Data

Noise and vibration data are measured at idling and maximum rated speed in a ratio of 1:6.

For further details on compliance with Vibration Directive 2002/44/EC see

www.stihl.com/vib

19.7 Sound pressure level L_{peq} to DIN EN 15503:2010

BR 350:	98 dB(A)
BR 430:	101 dB(A)

19.8 Sound power level L_{weq} to DIN EN 15503:2010

BR 350:	106 dB(A)
BR 430:	108 dB(A)

19.9 Vibration measurement $a_{hw,eq}$ to DIN EN 15503:2010

19.9.1 Standard versions

	Handle, right
BR 350:	3.9 m/s ²
BR 430:	2.5 m/s ²

19.9.2 Version with Bike Handle

	Handle, left	Handle, right
BR 350:	2.5 m/s ²	2.5 m/s ²
BR 430:	2.5 m/s ²	2.5 m/s ²

The K-factor in accordance with Directive 2006/42/EC is 2.0 dB(A) for the sound pressure level and sound power level; the K-factor in accordance with Directive 2006/42/EC is 2.0 m/s² for the vibration level.

19.10 REACH

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

For information on compliance with the REACH regulation (EC) No. 1907/2006 see

www.stihl.com/reach

19.11 Exhaust Emissions

The CO₂ value measured in the EU type approval procedure is specified at

www.stihl.com/co2

in the product-specific technical data.

The measured CO₂ value was determined on a representative engine in accordance with a standardized test procedure under laboratory conditions and does not represent either an explicit or implied guarantee of the performance of a specific engine.

The applicable exhaust emission requirements are fulfilled by the intended usage and maintenance described in this User Manual. The operating license shall be void if the engine is modified in any way.

20 Maintenance and Repairs

Users of this machine may only carry out the maintenance and service work described in this user manual. All other repairs must be carried out by a servicing dealer.

STIHL recommends that you have servicing and repair work carried out exclusively by an authorized STIHL servicing dealer. STIHL dealers are regularly given the opportunity to attend training courses and are supplied with the necessary technical information.

When repairing the machine, only use replacement parts which have been approved by STIHL for this power tool or are technically identical. Only use high-quality replacement parts in order to avoid the risk of accidents and damage to the machine.

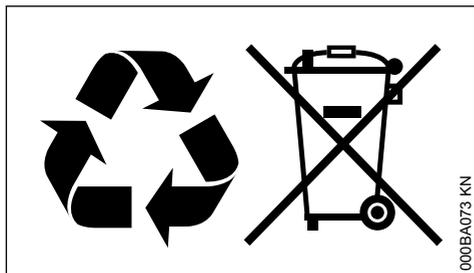
STIHL recommends the use of original STIHL replacement parts.

Original STIHL parts can be identified by the STIHL part number, the **STIHL** logo and the STIHL parts symbol  (the symbol may appear alone on small parts).

21 Disposal

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

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



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

22 EC Declaration of Conformity

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

Germany

declare under our sole responsibility that

Designation:	Blower
Make:	STIHL
Series:	BR 350 BR 430
Serial identification number:	4244
Displacement:	63.3cm ³

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

EN ISO 12100, EN 15503, EN 55012,
EN 61000-6-1

The measured and the guaranteed sound power level have been determined in accordance with Directive 2000/14/EC, Annex V, and standard ISO 11094.

Measured sound power level

BR 350:	105 dB(A)
BR 430:	107 dB(A)

Guaranteed sound power level

BR 350:	107 dB(A)
BR 430:	109 dB(A)

Technical documents deposited at:

ANDREAS STIHL AG & Co. KG
Produktzulassung

The year of manufacture and serial number are applied to the product.

Done at Waiblingen, 15.07.2021

ANDREAS STIHL AG & Co. KG

pp

Dr. Jürgen Hoffmann

Director Product Certification & Regulatory Affairs



23 UKCA Declaration of Conformity

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

Germany

declare under our sole responsibility that

Designation:	Blower
Make:	STIHL
Series:	BR 350 BR 430
Serial identification number:	4244
Displacement:	63.3cm ³

conforms to the relevant provisions of UK regulations The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012, Supply of Machinery (Safety) Regulations 2008, Electromagnetic Compatibility Regulations 2016 and Noise Emission in the Environment by Equipment for use Outdoors Regulations 2001 and has been manufactured in compliance with the following standards in the versions valid on the date of production:

EN ISO 12100, EN 15503, EN 55012,
EN 61000-6-1

The measured and guaranteed sound power levels were determined in accordance with the UK regulation Noise Emission in the Environment by Equipment for Use Outdoors Regulations 2001, Schedule 8, using the ISO 11094 standard.

Measured sound power level

BR 350:	105 dB(A)
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BR 430: 107 dB(A)

Guaranteed sound power level

BR 350: 107 dB(A)
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Done at Waiblingen, 15.07.2021

ANDREAS STIHL AG & Co. KG

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Dr. Jürgen Hoffmann

Director Product Certification & Regulatory
Affairs



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