STIHL®

STIHL BG 55, 65, 85, SH 55, 85

Instruction Manual

Contents

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Printed on chlorine-free paper.
Printing inks contain vegetable oils; paper can be recycled.

Dear Customer,

Thank you for choosing a quality engineered STIHL product.

This machine has been built using modern production techniques and comprehensive quality assurance. Every effort has been made to ensure your satisfaction and troublefree use of the machine.

Please contact your dealer or our sales company if you have any queries concerning your machine.

Hans Peter Stihl

CE

Guide to Using this Manual

Pictograms

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

The operating and handling instructions are supported by illustrations.

Symbols in text

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

- A bullet marks a step or procedure without direct reference to an illustration.

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

Loosen the screw (**1**)

Lever (**2**) ...

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

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

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

Note or hint which is not essential for using the machine, but may improve the operator's understanding of the situation and result in better use of the machine.

Note or hint on correct procedure in order to avoid damage to the environment.

* Equipment and features

This instruction manual may refer to several models with different features. Components that are not installed on all models and related applications are marked with an asterisk (*). Such components may be available as special accessories from your STIHL dealer.

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. If the operating characteristics or the appearance of your machine differ from those described in this manual, please contact your STIHL dealer for assistance.

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

Safety Precautions

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

It is important that you read, fully understand and observe the following safety precautions and warnings.

Careless or improper use of any blower may cause serious or fatal injury.

Observe all applicable local safety regulations, standards and ordinances.

If you have never used this type of power tool before:
Have your STIHL dealer or other experienced user show you how to operate your blower.

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

The operator is responsible for avoiding injury to third parties and damage to their property.

Do not lend or rent your blower without the owner's manual. Be sure that anyone using your blower understands the information contained in this manual.

You must be rested, healthy and in good physical condition to operate a power tool.

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

Attachments

Only attachments supplied by STIHL or expressly approved by STIHL for use with your specific model are authorized.

Other attachments must not be used because of the increased risk of accidents.

STIHL excludes all liability for personal injury and damage to property caused while using unauthorized attachments.

Clothing and Equipment

Wear proper clothing and equipment.

Clothing must be sturdy and snug-fitting, but allow complete freedom of movement – an overall and jacket combination is recommended.

Avoid loose-fitting jackets, scarves, neckties, jewelry or anything that could get into the air intake. Tie up and confine long hair (e.g. with a hair net, cap, hard hat, etc.).

Wear steel-toed **safety boots** with nonslip soles.

Wear **safety glasses, goggles** or a face shield to reduce the risk of injury from thrown objects.

Wear sound barriers (ear plugs or ear mufflers) to protect your hearing.

Wear **heavy-duty gloves**, preferably made of chrome leather.

Fueling

Gasoline is an extremely flammable fuel. Do not smoke or bring any fire or flame near the fuel.

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

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

Remove the fuel filler cap on the unit carefully so as to allow any pressure build-up in the tank to release slowly.

Fuel your blower in well-ventilated areas, outdoors only. Wipe off any spilled fuel before starting and check for leakage. Take care not to get fuel on your clothing. If this happens, change immediately.

Tighten down the 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.

To reduce the **risk of serious or fatal burn injuries**, check for fuel leakage while refueling and during operation. If fuel leakage is found, do not start or run the engine until leak is fixed.

Store gasoline and oil in properly labeled, approved safety-type cans.

Transporting the Unit

Always stop the engine.

Transporting in a vehicle:
Properly secure your unit to prevent turnover, fuel spillage and damage.
When the unit is not in use (work break), put it down so that it does not endanger others.

Before Starting

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

– Throttle trigger must move freely and spring back to idle position when released.
– Stop switch must move easily to **0**
– Check that spark plug boot is secure – a loose boot may cause arcing that could ignite combustible fumes and cause a fire.
– Check condition of fanwheel and fan housing (see chapter on "Using the Vacuum Shredder").
– A worn fan housing (cracks, nicks, chipping) may result in an increased risk of injury from escaping foreign matter.
– If either the fanwheel or the fan housing are damaged, contact your STIHL dealer for assistance.

Never attempt to modify the controls or the safety devices in any way.

To reduce the risk of accidents, never operate your power tool if it is damaged, improperly adjusted or not completely or securely assembled.

Starting the Engine

Start the engine at least 3 meters from the fueling spot, outdoors only. Place the unit on firm level ground in an open area. Make sure you have good balance and secure footing.

Hold the unit securely.

Your power tool is a one-person unit. Do not allow other persons within a radius of 5 meters of your own position – even when starting.

Start the engine as described in the instruction manual.

During Operation

Your power tool produces toxic exhaust fumes as soon as the engine is running. These gases (e.g. carbon monoxide) may be colorless and odorless. To reduce the risk of serious or fatal injury from breathing toxic fumes, never run the engine indoors or in poorly ventilated locations.

Ensure proper ventilation when working in trenches, hollows or other confined areas.

Take a break in good time to avoid tiredness or exhaustion.

To reduce the risk of fire, **do not smoke** while operating or standing near your power tool.

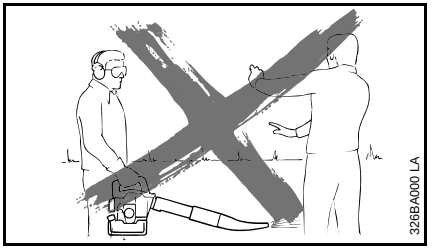
Note that combustible fuel vapor may escape from the fuel system.

Do not work alone –
keep within calling distance of others in case help is needed.

General Precautions

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

Always hold your unit firmly – make sure you always have a firm and secure footing.



Examine the work area: **Do not direct the air blast towards bystanders** since the air flow can blow small objects at great speed.

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

Operate your power tool only in the areas specified in the instruction manual.

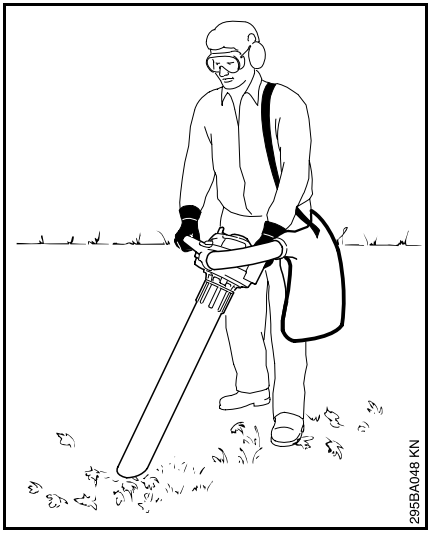
Operate your power tool so that it causes a minimum of noise and emissions. Do not run the engine unnecessarily. Accelerate the engine only when working.

Take care in slippery conditions on ice, in wet or snow, on slopes or uneven ground.

Watch out for obstacles:
Roots, ditches, holes or rubbish which could cause you to trip or stumble.

When your power tool is not in use, put it down in a safe place so that it does not endanger others.

Always shut off the engine before leaving your power tool unattended.



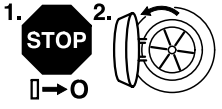
Using the Vacuum Attachment*

For specific assembling instructions, see the appropriate chapter of this instruction manual

The catcher bag must always be mounted to the unit when you use the unit in the vacuum mode. Hold the unit firmly at all times with both hands on the two handles. Wear the shoulder strap over your left shoulder – not across your chest.

To reduce the risk of personal injury from fire, never attempt to pick up hot or burning substances (e.g. smoldering ashes, glowing cigarettes).

To reduce the risk of fatal injury from fire or explosion, never attempt to pick up combustible fluids (e.g. gasoline) or any materials soaked in combustible fluids



Move the stop switch to **"0"** before opening the intake screen.

In order to reduce the risk of injury from contact with rotating parts and damage to the motor, the intake screen must always be closed and secured in place when the suction tube is not mounted.

* see “Guide to Using this Manual”

Vibrations

Prolonged use of the unit 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:

– Hand protection (wearing warm gloves)
– 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, seek medical advice.

Maintenance and repairs

The machine must be serviced regularly. Do not attempt any maintenance or repair work not described in your Owner's Manual. All other work should be carried out by a servicing dealer.

STIHL recommends that maintenance and repair work be carried out only by authorized STIHL dealers. STIHL dealers receive regular training and are supplied with technical information.

Use only high-quality replacement parts, in order to avoid the risk of accidents or damage to the machine. Contact a dealer if in doubt.

STIHL recommends the use of genuine STIHL spare parts. Such parts have been optimized for the machine and the user's requirements.

Before starting any maintenance or repair work and before cleaning the machine, always **stop the engine and disconnect the spark plug boot** to avoid all **risk of injury** if the engine starts up inadvertently. – Exception: adjustment of carburetor and idle speed.

Do not service or store the machine near a naked light – **risk of fire** due to the fuel.

Check fuel cap regularly for tightness.

Use only the spark plugs approved by STIHL – see Specifications.

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

To reduce the **risk of fire** due to ignition outside the cylinder, move the slide control / stop switch to **STOP** or **0** before turning the engine over on the starter with the spark plug boot removed or the spark plug unscrewed.

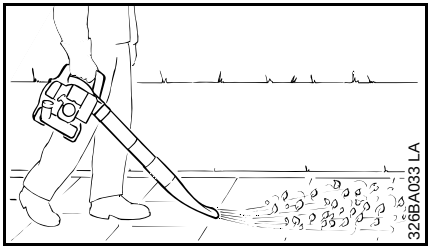
Check that the muffler is in perfect working condition.

Do not use the machine if the muffler is damaged or missing – **risk of fire! – Hearing damage!**

Do not touch the hot muffler – **risk of burns!**

The condition of the anti-vibration buffers influences the machine's vibrations – they must be examined regularly.

Using the Blower



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

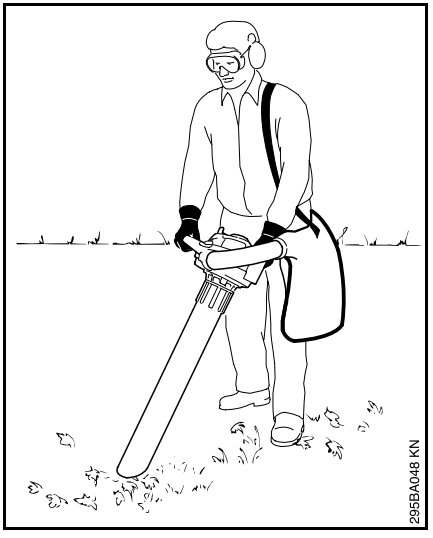
The round nozzle* is particularly suitable for use on uneven surfaces (e.g. fields and lawns).

The fan nozzle* produces a broad and powerful airstream at ground level. It can be aimed and controlled very accurately. This nozzle is highly effective for blow-sweeping sawdust, leaves, grass cuttings, etc. on flat surfaces.

Watch out for small animals when using the blower on open ground, in yards and gardens.

* see “Guide to Using this Manual”

Using the Vacuum Shredder



Your vacuum shredder is designed for two-handed operation. Hold and operate the unit with your right hand on the control handle and your left hand on the assist handle.

Wear the shoulder strap* for the catcher bag* over your left shoulder – not across your chest.

The large diameter suction tube* enables the unit to pick up all kinds of trash, such as large leaves, cardboard and pieces of bark.

* see “Guide to Using this Manual”

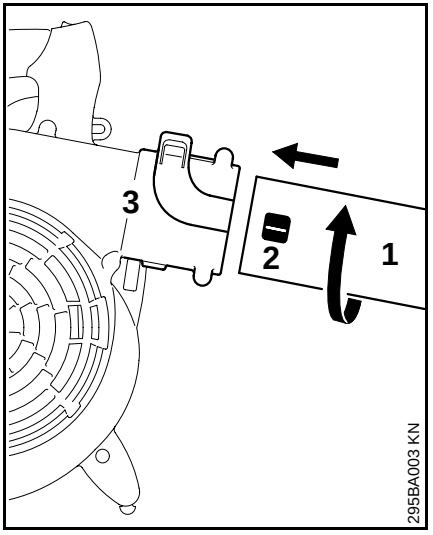
Vacuuming abrasive material (such as grit, stone chips, etc.) causes the fanwheel and fan housing to wear at a rapid rate. This results in a considerable loss of suction power.

In such a case you should contact your STIHL dealer.

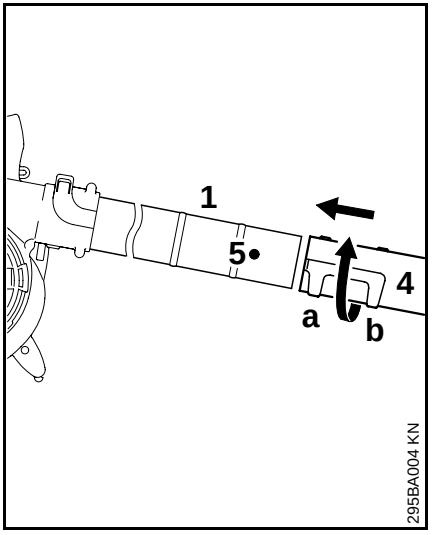
Take particular care when vacuuming **wet** leaves since they may block the fan.

Watch out for small animals when vacuuming and blowing in open areas and gardens. To help avoid the risk of injuring animals, do not run the unit at high engine speed.

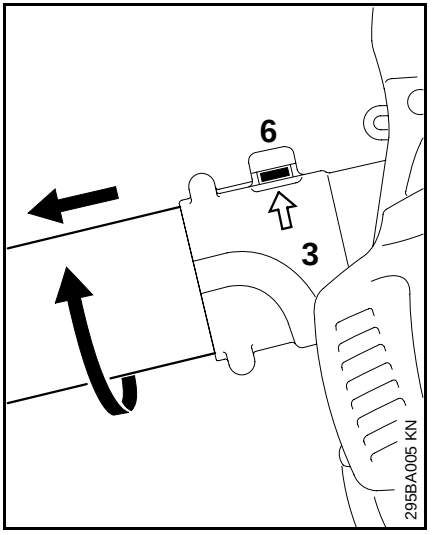
Assembling the Blower



- Push the blower tube (**1**) with lug (**2**) into the fan housing stub (**3**) and rotate it in the direction of the arrow to lock in position.



- Push nozzle (**4**) onto the blower tube (**1**) as far as lug (**5**), position **a** (long) or position **b** (short), and rotate it in the direction of the arrow to lock in position.



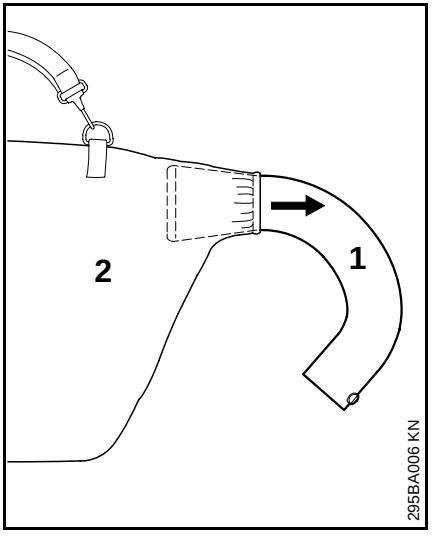
Removing blower tube

- Use a suitable tool to lift the tab (**6**) on the fan housing stub (**3**). Rotate the blower tube in the direction of the arrow and then pull it out.

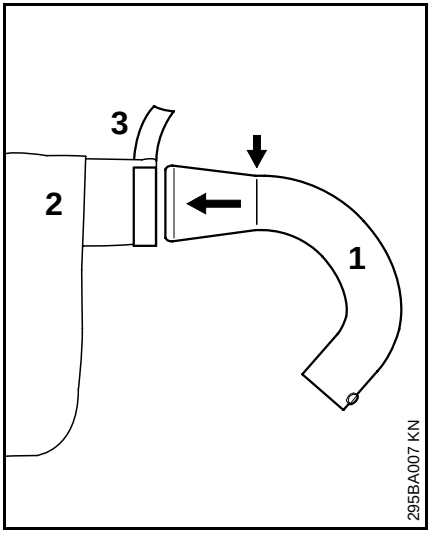
See “Assembling the Vacuum Shredder” for installation and removal of vacuum attachment.

* see “Guide to Using this Manual”

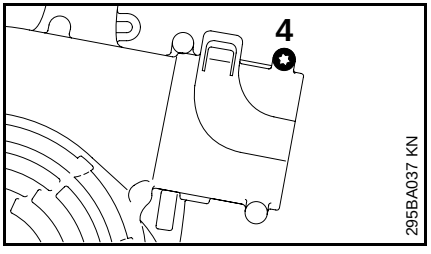
Assembling the Vacuum Shredder

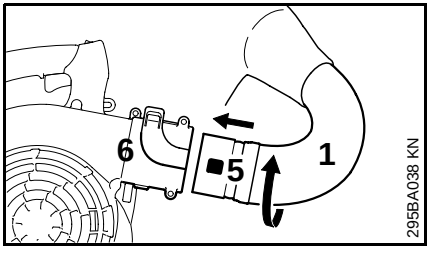


- From inside the catcher bag* **(2)**, push the elbow* **(1)** through the intake opening (see arrow) and pull it outwards until it is firmly seated.
- Attach the carrying strap*.



- Push elbow **(1)** into the catcher bag **(2)** as far as mark (see arrow) and secure it with the Velcro strip* **(3)**.

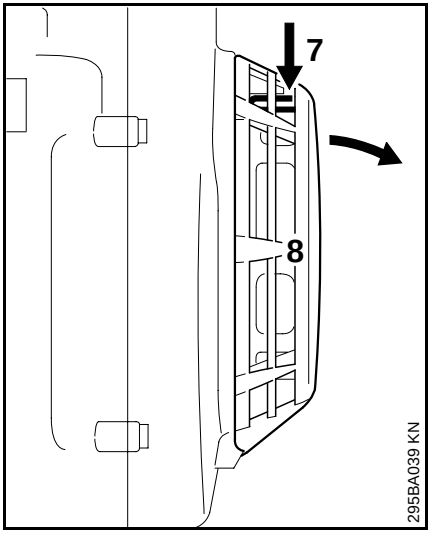




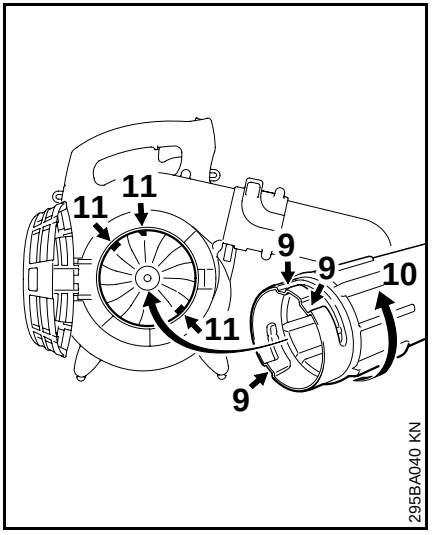
- Loosen the screw **(4)**.
- Push elbow **(1)** with lug **(5)** into fan housing stub **(6)** and rotate in direction of arrow to lock in position.
- Tighten down the screw **(4)**.

* see “Guide to Using this Manual”

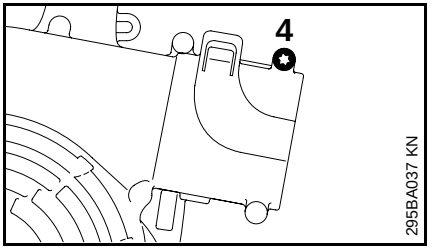
* see “Guide to Using this Manual”

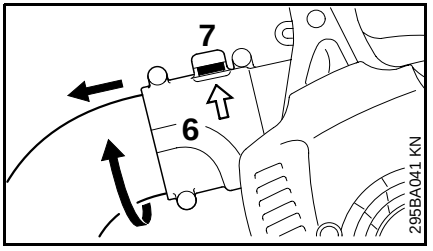


- Use a suitable tool to disengage the tab **(7)** on the intake screen **(8)** and then open the intake screen.



- Push guideways **(9)** on suction tube* **(10)** onto lugs **(11)** on fan housing and rotate suction tube in direction of arrow to lock it in position.





Removing the elbow

- Loosen the screw **(4)**.
- Use a suitable tool to lift the tab **(7)** on the fan housing stub **(6)**. Rotate the blower tube or elbow in the direction of the arrow and then pull it out.
- Tighten down the screw **(4)**.

* see “Guide to Using this Manual”

Fuel

Your engine requires a mixture of gasoline and engine oil.

For health reasons, avoid direct skin contact with gasoline and avoid inhaling gasoline vapor.

STIHL MotoMix

STIHL recommends the use of STIHL MotoMix. This ready-to-use fuel mix contains no benzol or lead, has a high octane rating and ensures that you always use the right mix ratio.

STIHL MotoMix is specially formulated for use in STIHL engines and guarantees a long engine life.

MotoMix is not available in all markets.

Mixing Fuel

Unsuitable fuels or lubricants or mix ratios other than those specified may result in serious damage to the engine. Poor quality gasoline or engine oil may damage the engine, sealing rings, hoses and the fuel tank.

Gasoline

Use only high-quality brand-name gasoline with a minimum octane rating of 90 – leaded or unleaded.

If your machine is equipped with a catalytic converter, you must use unleaded gasoline.

A few tankfuls of leaded gasoline will greatly reduce the efficiency of the catalytic converter.

Engine Oil

Use only quality two-stroke engine oil. We recommend **STIHL two-stroke engine oil since it is specially formulated for use in STIHL engines and guarantees a long engine life**.

If STIHL two-stroke engine oil is not available, use only quality two-stroke oil designed for use in air cooled engines. Do not use oils designed for water cooled engines or engines with a separate lubricating system (e.g. conventional four-stroke engines).

Use only **STIHL 50:1 two-stroke engine oil** for the fuel mix in models with a catalytic converter.

Mix Ratio

STIHL 50:1 two-stroke engine oil:
50 parts gasoline to 1 part oil

Other high-quality two-stroke engine oils:
25 parts gasoline to 1 part oil

Examples

Gasoline	STIHL engine oil 50:1		Other high-quality two-stroke engine oils: 25:1	
Liters	Liters	(cc)	Liters	(cc)
1	0.02	(20)	0.04	(40)
5	0.10	(100)	0.20	(200)
10	0.20	(200)	0.40	(400)
15	0.30	(300)	0.60	(600)
20	0.40	(400)	0.80	(800)
25	0.50	(500)	1.00	(1000)

- Use a canister approved for storing fuel. Pour oil into the canister first, then add gasoline and mix thoroughly.

Fueling

Storing Fuel

Store fuel only in approved safety-type fuel canisters in a dry, cool and safe location protected from light and the sun.

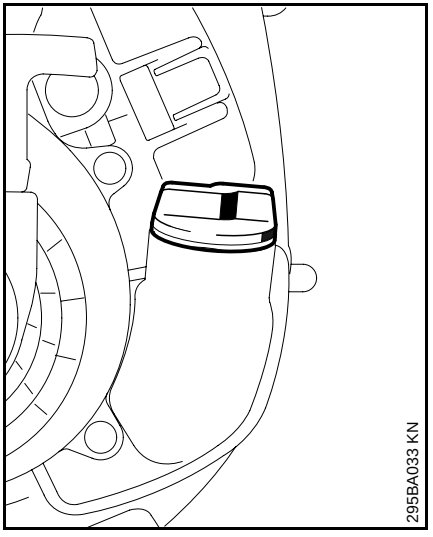
Fuel mix ages:
Only mix sufficient fuel for a few weeks work. Do not store fuel mix for longer than 3 months.
Exposure to light, the sun, low or high temperatures can quickly make the fuel mix unusable.

- Thoroughly shake the mixture in the canister before fueling your machine.

⚠ Pressure may build up in the canister – open it carefully.

- Clean the fuel tank and canister from time to time.

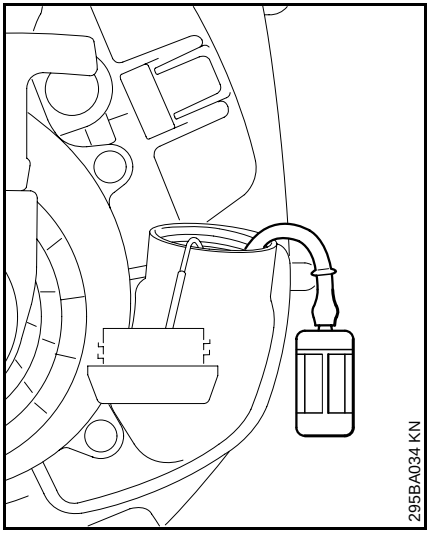
Dispose of remaining fuel and cleaning fluid properly in accordance with local regulations and environment requirements.



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

Take care not to spill fuel while fueling and do not overfill the tank. STIHL recommends use of the STIHL filling system (special accessory).

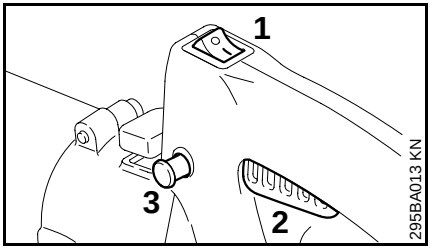
Important! After fueling, tighten down filler cap by hand **as securely as possible**.



Change the fuel pickup body once every year

- Drain the fuel tank.
- Use a hook to pull the fuel pickup body out of the tank and take it off the hose.
- Push the new pickup body into the hose.
- Place the pickup body in the tank.

Starting / Stopping the Engine



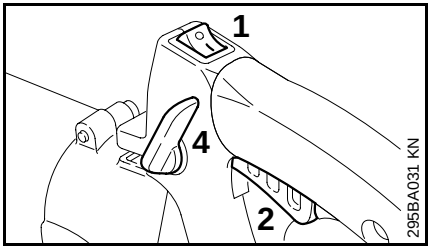
BG 55, 65, SH 55

Observe safety precautions - see chapter “Safety Precautions”.

Start as follows:

- Set switch (**1**) to position **I**
- Squeeze the throttle trigger (**2**) and press in the interlock button (**3**) at the same time.
- Release the throttle trigger.
- Release the interlock button, this is the **starting throttle position.**

The interlock button enables the throttle trigger to be locked in the full throttle position.



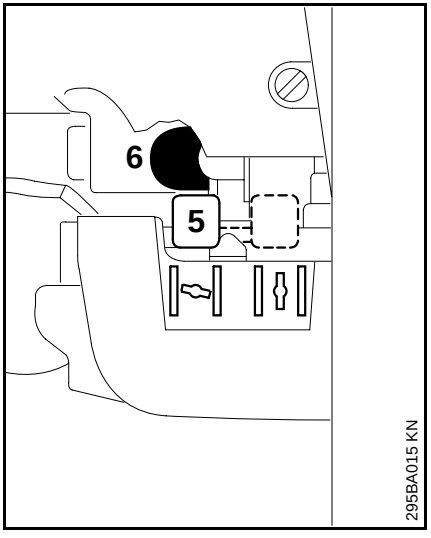
BG 85, SH 85

Observe safety precautions - see chapter “Safety Precautions”.

Start as follows:

- Set switch (**1**) to position **I**
- Squeeze the throttle trigger (**2**) and move the setting lever (**4**) to midway position at the same time.
- Release the throttle trigger, this is the **starting throttle position.**

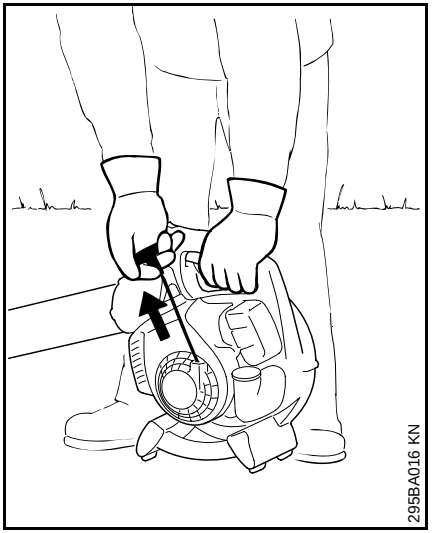
The setting lever enables you to select and hold any throttle position between idle and full throttle. Move the setting lever to the idle position before shutting off the engine.



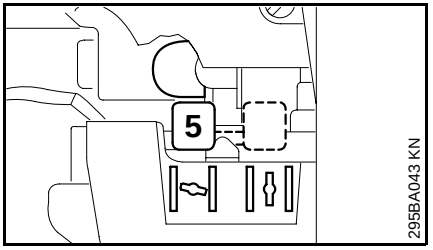
All models

Set the choke lever (**5**):
For cold start to
For warm start to

- Press fuel pump bulb (**6**) at least five times.



- Place the unit on the ground.
- Make sure you have a firm footing: Hold the unit **firmly** on the ground with your left hand on the handle and press down.
- 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 all the way - it might break.
- Do not let the starter grip snap back. Guide it slowly back into the housing so that it can rewind properly.



If the engine is cold:

(choke position)

- Pull the starter rope five times.
- Move the choke lever (**5**) to
- Continue cranking until engine runs.

If the engine does not start after 10 pulls with the choke lever set to :

Set choke to , pull the starter rope five times, set choke to and continue cranking.

If engine is warm:

- Continue cranking until engine runs (choke lever to)

As soon as engine runs

- **BG 55, 65, SH 55**
  Blip the throttle trigger so that interlock button pops out and the engine settles down to idle speed
- **BG 85, SH 85**
  Move setting lever forwards to end position.

If the engine stops during warm-up or acceleration:

- Repeat starting procedure as described under “If engine is cold”

Your unit is now ready for operation.

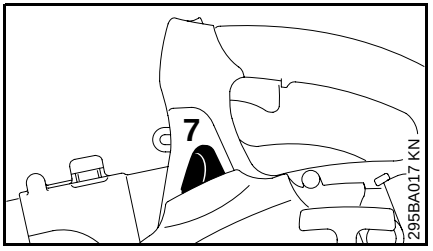
To stop the engine:

- Move switch to position **O**

Additional hints on starting

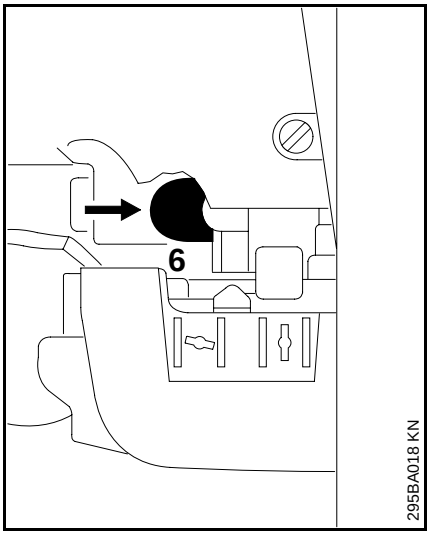
- If the engine does not start:

- Make sure all settings are correct (choke shutter, throttle trigger in starting throttle position, stop switch to **I**)
- Repeat the starting procedure



- If the engine still does not start:

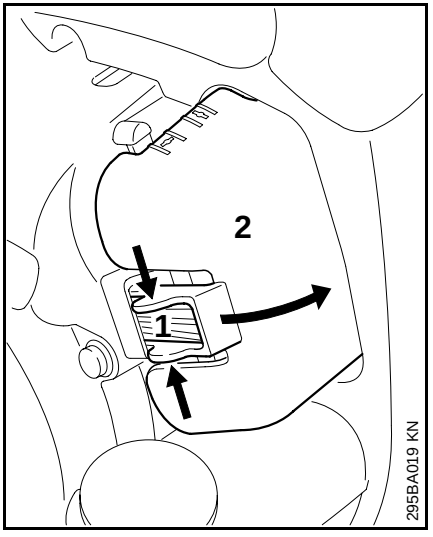
- Move switch to **O**
- Pull off the spark plug boot (**7**).
- Unscrew and dry off the spark plug.
- Open throttle wide.
- Crank the engine several times with the starter to clear the combustion chamber.
- Refit the spark plug and connect the spark plug boot – push it down firmly.
- Move switch to **I**
- Set choke lever to ⇤ - even if the engine is cold.
- Now start the engine.



Fuel tank run until dry and then refueled

- Press the fuel pump bulb (**6**) at least five times – bulb must be filled with fuel.
- Now start the engine.

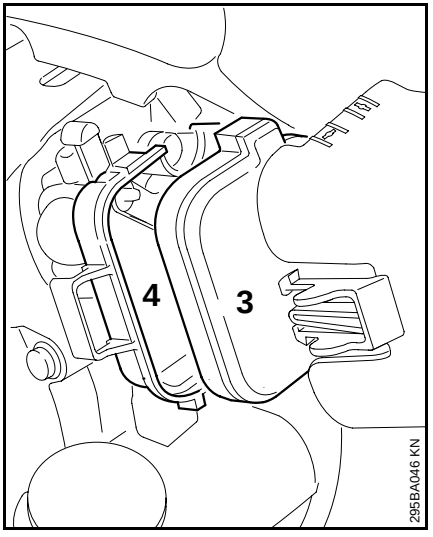
Cleaning the Air Filter



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

If there is a noticeable loss of engine power

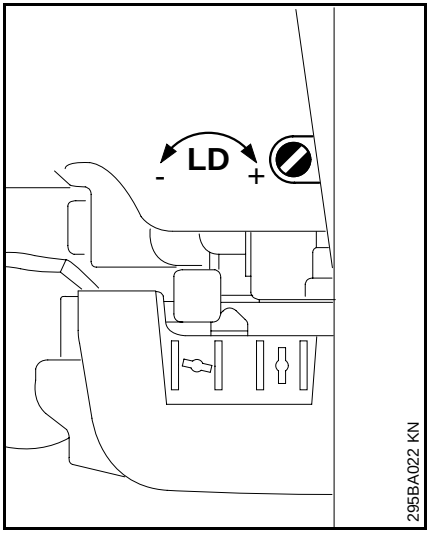
- Move choke lever to ⚡
- Squeeze the tabs **(1)** together, swing filter cover **(2)** open and take it away.
- Clean away loose dirt from around the filter.



- Take the filter **(3)** out of the housing **(4)**.
- Install a new filter. As a temporary measure you can knock it out on the palm of your hand or blow it out with compressed air – **do not** wash!
- Replace any damaged parts.
- Fit the filter **(3)** in the housing **(4)**.
- Fit the filter cover **(2)** so that it snaps into positon.

Adjusting the Carburetor

(With idle speed screw LD)



The carburetor is set at the factory to provide an optimum fuel-air mixture under all operating conditions.

(With idle speed screw LA)

Standard setting

- Check the air filter and replace if necessary.
- Start and warm up the engine.
- Carefully screw the idle speed screw **(LD)** down onto its seat counterclockwise (left-hand thread). Then open it two full turns clockwise (standard setting).

Engine stops when engine is idling:

Carry out standard setting
(open the LD screw two full turns)

- Rotate idle speed screw **(LD)** about one half turn clockwise until the engine runs smoothly.

Erratic idling behavior, poor acceleration:

Carry out standard setting
(open the LD screw two full turns)

- Rotate idle speed screw **(LD)** about one half turn counterclockwise.

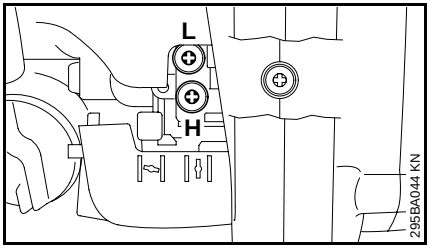
General information

The carburetor comes from the factory with a standard setting.

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

With this carburetor it is only possible to adjust the engine idle speed within fine limits.

Standard setting



- Shut off the engine.
- Turn high speed screw **(H)** counterclockwise as far as stop (max. $^{3}/_{4}$ turn).
- Set the low speed screw **(L)** to one full turn open.

Catalytic Converter*

Adjustment for operation at high altitude or at sea level

A slight correction of the setting may be necessary if engine power is not satisfactory when operating at high altitude or at sea level:

- Check the air filter and clean it if necessary.
- Warm up the engine.

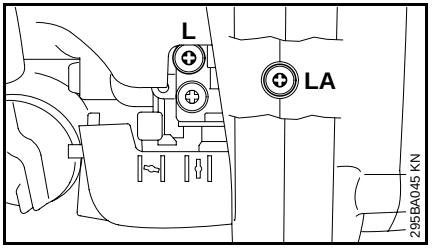
At high altitude

- Rotate the high speed screw **(H)** clockwise (leaner) no further than stop.

At sea level

- Rotate the high speed screw **(H)** counterclockwise (richer) no further than stop.

Adjusting idle speed



Engine stops while idling

- Set low speed screw **(L)** to one full turn open.
- Turn idle speed screw **(LA)** slowly clockwise until the engine runs smoothly – then back it off $^1/_4$ turn from that position.

Erratic idling behavior; poor acceleration
(even though low speed screw is open one full turn)

Idle setting is too lean:

- Turn low speed screw **(L)** counterclockwise until the engine runs and accelerates smoothly.

It is usually necessary to change the setting of the idle speed screw **(LA)** after every correction to the low speed screw **(L)**.

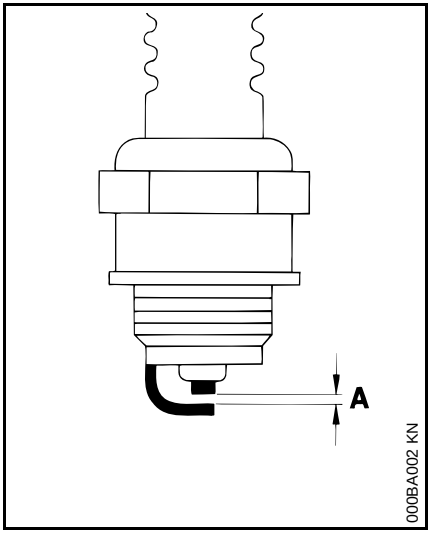
Power tools with a catalytic converter* may only be operated with **unleaded gasoline** and **STIHL two-stroke engine oils** in a mix ratio of 50:1 (see chapter “Fuel”).

The catalytic converter in the muffler reduces noxious emissions in the exhaust gas.

Correct adjustment of the carburetor (if adjustable) and observance of the specified mix ratio of gasoline and two-stroke engine oil are essential to minimize harmful exhaust emissions and ensure a long catalyst service life.

* see “Guide to Using this Manual”

Checking the Spark Plug



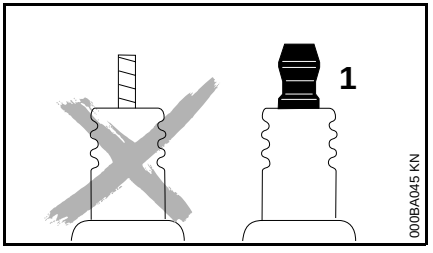
If engine is down on power, difficult to start or runs poorly at idle speed, first check the spark plug.

- Remove the spark plug – see "Starting / Stopping the Engine".
- Clean dirty spark plug.
- Check electrode gap (**A**) and readjust if necessary – see "Specifications".
- Rectify the problems which have caused fouling of spark plug:

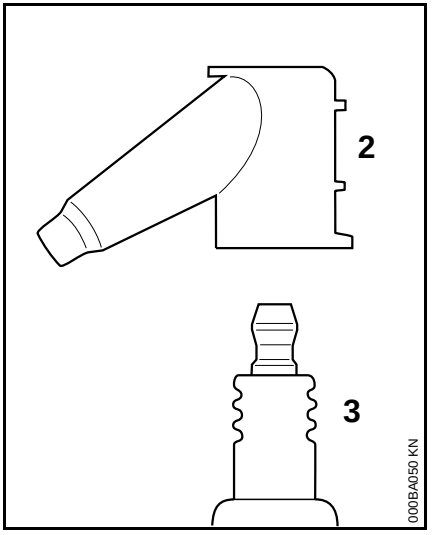
– To much oil in fuel mix.
– Dirty air filter.
– Unfavorable running conditions.

- **Fit a new spark plug after about 100 operating hours** – or sooner if the electrodes are badly eroded.
  Install only suppressed spark plugs of the type approved by STIHL – see "Specifications".

To reduce the risk of arcing and fire:



- If the spark plug comes with a detachable adapter nut (**1**), screw it on **firmly**.



On all spark plugs:

- Always press the boot (**2**) **firmly** on to the spark plug (**3**).

Engine Running Behavior

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

- Have the muffler checked for contamination (coking).

STIHL recommends that all maintenance and repair work be carried out by an authorized STIHL dealer.

Rewind Starter

To help prolong the wear life of the starter rope, observe the following points:

- Pull the starter rope only in the direction specified.
- Do not pull the rope over the edge of the guide bushing.
- Do not pull out the rope more than specified since it might break.
- Do not let the starter grip snap back, guide it slowly into the housing. See also chapter “Starting / Stopping the Engine”!

Replace a damaged starter rope in good time or have it replaced by your STIHL dealer!

Storing the Machine

For periods of about 3 months or longer:

- Drain and clean the fuel tank in a well ventilated area.
- Dispose of remaining fuel and cleaning solution properly in accordance with local environmental requirements.
- Run engine until carburetor is dry – this helps prevent carburetor diaphragms sticking together.
- Thoroughly clean the machine – pay special attention to the cylinder fins and air filter.
- Store the machine in a dry, high or locked location – out of the reach of children and other unauthorized persons.

Maintenance Chart

The following maintenance intervals apply to normal operating conditions only. If your daily working time is longer than normal 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	if required
Complete machine	Visual inspection (conditon, leaks)	x		x						
	Clean		x							
Control handle	Check operation	x		x						
Air filter	Clean							x		x
	Replace								x	
Filter in fuel tank	Check							x		
	Replace						x		x	x
Fuel tank	Clean							x	x	
Carburetor	Check idle setting	x		x						
	Readjust idle									x
Spark plug	Readjust electrode gap							x		
	Replace after 100 hours of operation									
Cooling air intakes	Clean								x	
All accessible screws and nuts (not adjusting screws)	Tighten									x
Safety labels	Replace								x	

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, operating 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.

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 maintenance and repair work carried out only by an authorized STIHL servicing dealer. STIHL servicing dealers are able to attend regular training courses and receive technical information bulletins on the latest engineering changes.

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

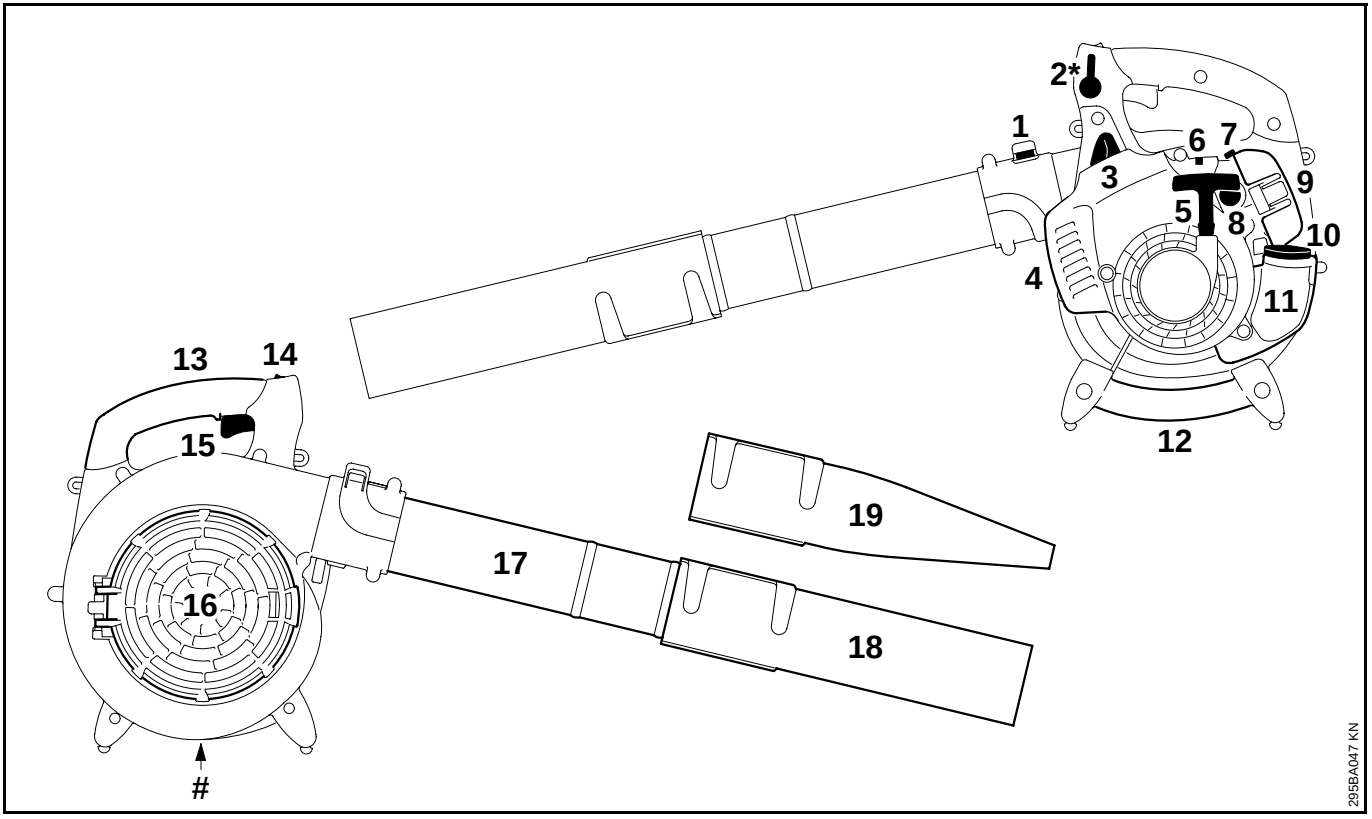
– Damage to the engine due to neglect or deficient maintenance (e.g. of air and fuel filters), incorrect carburetor adjustment or inadequate cleaning of cooling air inlets (intake ports, cylinder fins).
– Corrosion and other consequential damage resulting from improper storage.
– Damage to the product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

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:

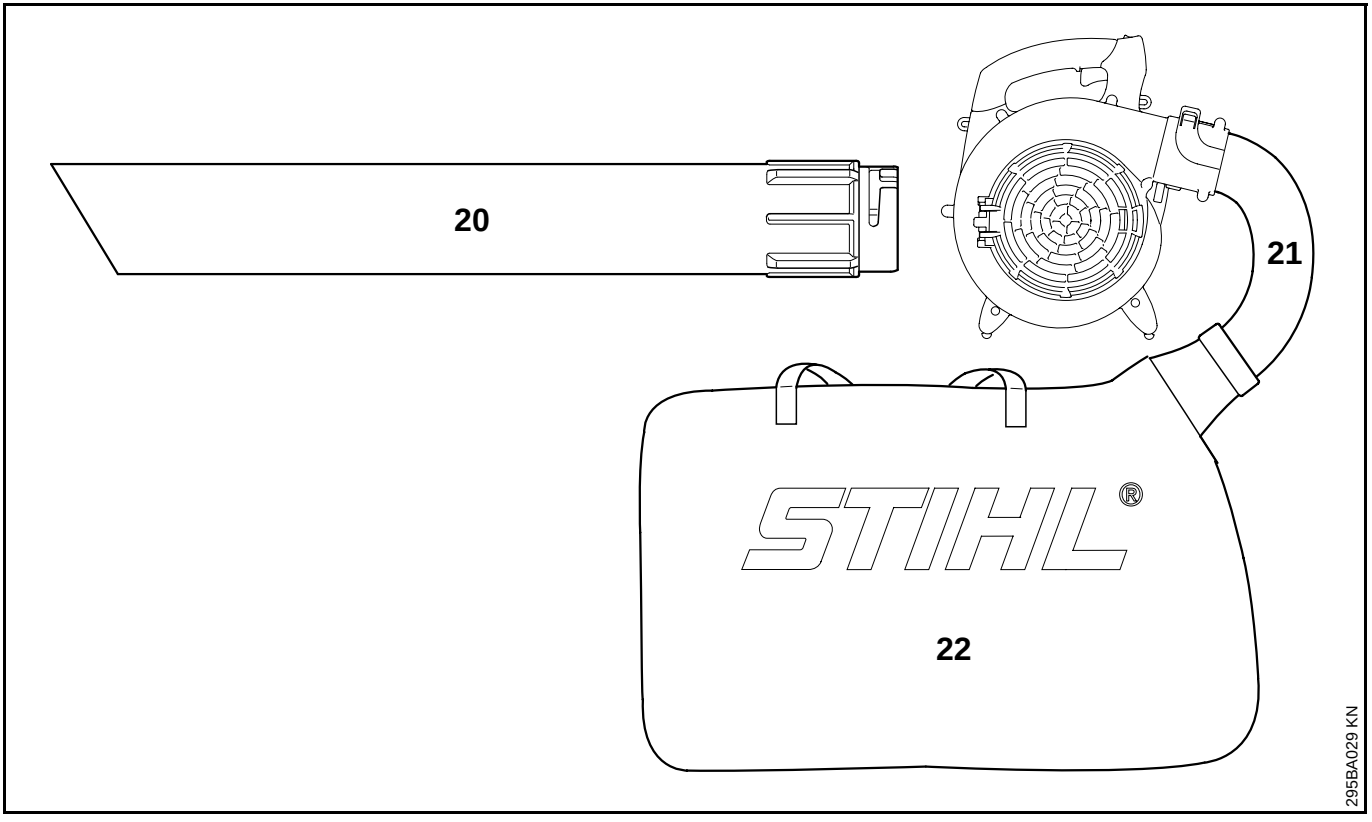
– Filters (air, fuel)
– Fanwheel, shredder blade
– Catcher bag
– Starter mechanism
– Spark plug
– Components of anti-vibration system

Parts and Controls



1 Tab
2 Setting lever*
3 Spark plug boot
4 Muffler
5 Starter grip
6 Carburetor adjusting screw
7 Choke lever
8 Fuel pump
9 Filter housing
10 Fuel filler cap
11 Fuel tank
12 Assist handle
13 Control handle
14 Switch
15 Throttle trigger
16 Intake screen
17 Blower tube
18 Round nozzle*
19 Fan nozzle*
= Serial number

* see “Guide to Using this Manual”



20 Suction tube*

21 Elbow*

22 Catcher bag*

* see “Guide to Using this Manual”

Specifications

Engine

Single cylinder two-stroke engine

Displacement:	27.2 cm^3
Bore:	34 mm
Stroke:	30 mm
Idle speed:	2800 rpm

Ignition System

Type:	Electronic magneto ignition
Spark plug (suppressed):	Bosch WSR 6 F or NGK BPMR 7 A;
Electrode gap:	0.5 mm

Fuel System

Carburetor:	All position diaphragm carburetor with integral fuel pump
Fuel tank capacity:	0.4 l (400 cm^3)
Fuel mix:	See chapter on “Fuel”

Model	Sound pressure level L_{peq} to ISO 11201 [1]	Sound power level L_{weq} to ISO 3744 [1]	Vibration measurement to ISO 8662 Idle speed [4] Handle		Vibration measurement to ISO 8662 Max. RPM [4] Handle		Maximum air flow rate	Air velocity with nozzle	Weight
			right	left	right	left			
	dB(A)	dB(A)	m/s^2	m/s^2	m/s^2	m/s^2	m^3/h	m/s	kg
BG 55	91 [2]	101 [2]	4.1 [2]		8.1 [2]		730 [2]	63 [2]	4.1
BG 65	91 [2]	101 [2]	4.0 [2]		9.0 [2]		730 [2]	78 [2]	4.1
BG 85	90 [2]	101 [2]	4.0 [2]		9.0 [2]		780 [2]	82 [2]	4.2
BG 85 catalytic converter	89 [2]	103 [2]	4.0 [2]		9.0 [2]		780 [2]	82 [2]	4.3
SH 55	91 [2]/97 [3]	101 [2]/99 [3]	4.1 [2]/ 4.0 [3]	-[2]/ 4.0 [3]	8.1 [2]/ 8.1 [3]	-[2]/ 11.0 [3]	730 [2]/600 [3]	63 [2]	5.1
SH 85	90 [2]/99 [3]	101 [2]/100 [3]	4.0 [2]/ 4.0 [3]	-[2]/ 4.0 [3]	9.0 [2]/ 9.0 [3]	-[2]/ 14.0 [3]	780 [2]/625 [3]	82 [2]	5.4
SH 85 catalytic converter	90 [2]/99 [3]	103 [2]/100 [3]	4.0 [2]/ 4.0 [3]	-[2]/ 4.0 [3]	9.0 [2]/ 9.0 [3]	-[2]/ 14.0 [3]	780 [2]/625 [3]	82 [2]	5.5

1) Weighted equivalent level includes idling and maximum RPM with the same duration of exposure
2) Blower mode
3) Vacuum mode
4) For further data on compliance with Vibration Directive 2002/44/EC see www.stihl.com/vib

Special Accessories

Vacuum attachment

Gutter cleaning attachment

Round nozzle

Fan nozzle

Contact your STIHL dealer for more information on these and other special accessories.

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 all maintenance and repair work be carried out by an authorized STIHL dealer. STIHL dealers regularly 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 equivalent. Only use high-quality replacement parts in order to avoid the risk of accidents or damage to the machine.

STIHL recommends the use of genuine 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.

Certificate of Conformity

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

certify that the new machines described below

Category:	Blower/vacuum shredder
Make:	STIHL
Model:	BG 55, BG 65, BG 85, BG 85 (catalytic converter); SH 55, SH 85, SH 85 (catalytic converter)
Serial identification:	4229
Displacement:	27.2 cm^3

conform to the specifications of Directives 98/37/EC, 89/336/EEC and 2000/14/EC.

The products have been developed and manufactured in compliance with the following standards:
EN ISO 12100, EN 61000-6-1, EN 55012

The measured and guaranteed sound power level was determined according to Directive 2000/14/EEC, Annex V, using the ISO 11094 standard.

Measured sound power level:

BG 55	102 dB(A)
BG 65	101 dB(A)
BG 85	102 dB(A)
BG 85 (catalytic converter)	106 dB(A)

Guaranteed sound power level:

BG 55	103 dB(A)
BG 65	102 dB(A)
BG 85	103 dB(A)
BG 85 (catalytic converter)	107 dB(A)

Measured sound power level:

SH 55	102 dB(A)
SH 85	102 dB(A)
SH 85 (catalytic converter)	105 dB(A)

Guaranteed sound power level:

SH 55	103 dB(A)
SH 85	103 dB(A)
SH 85 (catalytic converter)	106 dB(A)

Technical documents deposited at:
ANDREAS STIHL AG & Co. KG
Produktzulassung

Done at Waiblingen,
April 1, 2005

ANDREAS STIHL AG & Co. KG

Steinhauser
Director
Group Product Management/
Engineering Services

Quality Certification

All STIHL products comply with the highest quality standards.

An independent organization has certified that all products manufactured by STIHL meet the strict requirements of the ISO 9001 standard for quality management systems in terms of product development, materials purchasing, production, assembly, documentation and customer service.

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englisch / English