

# STIHL

## STIHL FS 240, 240 R, 260 R

Instruction Manual





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**Dear Customer,**

**Thank you for choosing a quality engineered STIHL product.**

**It has been built using modern production techniques and comprehensive quality assurance. Every effort has been made to ensure your satisfaction and trouble-free use of the product.**

**Please contact your dealer or our sales company if you have any queries concerning this product.**

**Your**



**Dr. Nikolas Stihl**

# STIHL

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## Guide to Using this Manual

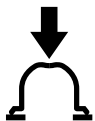
### Pictograms

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



Intake air: Summer operation



Intake air: Winter operation

### 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.

### 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.

### Safety Precautions and Working Techniques



Because the machine is a high-speed fast-cutting power tool, special safety precautions must be observed to reduce the risk of personal injury.



It is important that you read and understand the User Manual before commissioning and keep it in a safe place for future reference. Non-compliance with the User Manual may cause serious or even fatal injury.

Observe all applicable local safety regulations, e.g. by trade organizations, social insurance institutions, labor safety authorities etc.

If you have never used a power tool before: Have your dealer or other experienced user show you how to operate your machine – or attend a special course to learn how to operate it.

Minors should never be allowed to use the machine – except for apprentices over the age of 16 when working under supervision.

Children, animals and onlookers must remain at a safe distance.

When not using the machine, it must be laid down in such a way that it does not endanger anyone. Ensure that the machine cannot be used without authorization.

The user is responsible for accidents or risks involving third parties or their property.

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

The use of machines that emit noise may be limited to certain hours of the day as specified by national and/or regional or local regulations.

Anyone operating the machine must be well rested, in good physical health and in good mental condition.

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

If you have a pacemaker: The ignition system of your machine produces an electromagnetic field of very low intensity. This field may interfere with some pacemakers. STIHL recommends that persons with pacemakers consult their physician and the pacemaker manufacturer to reduce any health risk.

Anyone who has consumed alcohol or drugs or medicines affecting their ability to react must not operate a power tool.

Depending on the cutting attachment fitted, use your power tool only for cutting grass, wild growth, shrubs, scrub, bushes, small diameter trees and similar materials.

The machine must not be used for any other purposes – **risk of accidents!**

Only use cutting attachments and accessories that are explicitly approved for this power tool model by STIHL or are technically identical. If you have any

questions in this respect, consult your 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 genuine STIHL tools and accessories. They are specifically designed to match the product and meet your performance requirements.

Never attempt to modify your power tool 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 unauthorised attachments.

The guard provided with your machine may not protect the operator from all foreign objects (gravel, glass, wire etc.) ejected by the revolving cutting attachment. Ejected objects may also ricochet and strike the operator.

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

### Clothing and equipment

Wear proper protective clothing and equipment.



Clothing must be robust but allow complete freedom of movement. Wear close-fitting clothes such as a boiler suit, not a loose jacket.

Do not wear clothing which could become trapped in wood, brush or moving parts of the machine. Do not

wear a scarf, necktie or jewelry. Tie up and confine long hair above your shoulders.



Wear safety boots with steel toe caps and non-slip soles.

Sturdy shoes with non-slip soles are permissible only when using mowing heads.



### **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 snug fit.

Wear face protection and make sure it is a good fit. Face protection alone is not sufficient to protect the eyes.

Wear "personal" sound protection, e.g. ear defenders.

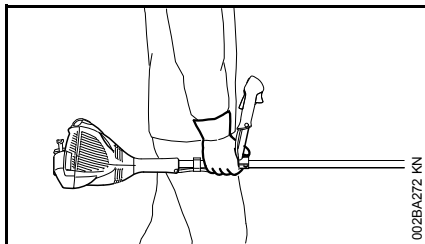
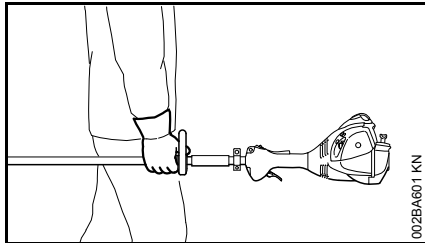
Wear a safety hard hat for thinning operations, when working in high scrub and where there is a danger of head injuries from falling objects.



Wear sturdy protective gloves made of a resistant material (e.g. leather).

STIHL can supply a comprehensive range of personal protective equipment.

## Transporting the machine



Always stop the engine.

Carry the machine hanging on the harness or by the shaft in such a way that it is balanced.

To reduce the risk of cut injuries, fit transport guard on the cutting attachment, even when carrying the tool for short distances – see also "Mounting the Transport Guard".



Avoid touching hot parts of the machine and gearbox – **risk of burns!**

By vehicle: When transporting in a vehicle, properly secure your machine to prevent turnover, damage and fuel spillage.

## Refueling



**Gasoline is highly flammable** – keep away from fire or flame – do not spill any fuel – no smoking.

Always shut off the engine before refueling.

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

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

Only refuel the machine in a well ventilated place. If fuel has been spilled, immediately clean the machine – do not allow your clothes to be splashed with fuel. If that happens, change your clothes at once.



After refueling, close the fuel cap as tightly as possible.

This helps reduce the risk of engine vibrations causing an incorrectly tightened fuel cap to loosen or come off and spill fuel.

Check for leaks. Do not start the engine if there is a fuel leak – **serious or fatal burns could result!**

## Before starting

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

- Check the fuel system for leaks, especially the visible parts, e. g., fuel cap, hose connections, manual fuel pump (only in machines with a manual fuel pump). In case of leakage and damage, do not start the engine – **risk of fire!** Have the machine serviced by a dealer before using it
- Use only an approved combination of cutting attachment, deflector, handle and harness. All parts must be assembled properly and securely
- The stop switch / slide control must be easy to actuate
- Check the choke lever, throttle trigger and throttle trigger lockout for smooth action – throttle trigger must return automatically to idle position. The choke lever must spring back from the **I** and **II** positions to the run position **I** when the throttle trigger lockout and throttle trigger are squeezed
- Check that the spark plug boot is secure – a loose boot may cause sparking that could ignite combustible fumes **and cause a fire!**
- Cutting attachment or interchangeable attachment: correctly fitted, secure and in perfect condition

- Safety devices (e. g., deflector for cutting attachments, rider plate) for damage and/or wear. Always replace damaged parts. Do not use the machine with a damaged deflector or worn rider plate (if the writing and arrows are no longer discernible)
- Never attempt to modify the controls or safety devices.
- Keep the handles dry and clean – free from oil and dirt – this is important for safe control of the machine
- Adjust the harness and handle(s) to suit your height and reach Note the information in the chapters "Fitting the Harness" and "Balancing the Machine".

**To reduce the risk of personal injury**, do not operate your power tool if it is damaged or not properly assembled!

To prepare for emergencies when using a harness: Practice setting down the machine quickly. To avoid damage, do not throw the machine to the ground when practicing.

### Starting the engine

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

Place the unit on firm ground in an open area. Make sure you have good balance and secure footing. Hold the unit securely. The cutting attachment must be clear of the ground and all other obstructions because it may begin to run when the engine starts.

This is a one-person machine – ensure that there is no-one within 15 meters of the machine, not even when starting the power tool! **Risk of injury** due to ejected objects!



Avoid contact with the cutting attachment – **risk of injury!**



Do not drop-start the power tool – start the engine as described in the User Manual. The cutting attachment runs on for a short while after releasing the throttle trigger – **coasting effect!**

Check engine idling: The cutting attachment must remain at a standstill when the engine idles – throttle trigger released.

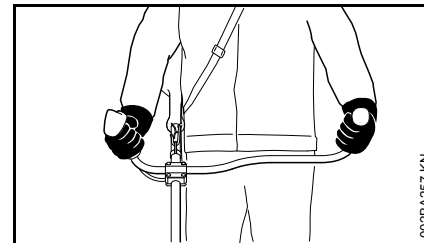
Keep easily combustible materials (e. g., wood chips, bark, dry grass, fuel) away from hot exhaust gases and hot muffler surfaces – **risk of fire!**

### Holding and guiding the machine

Always hold the unit firmly with both hands on the handles.

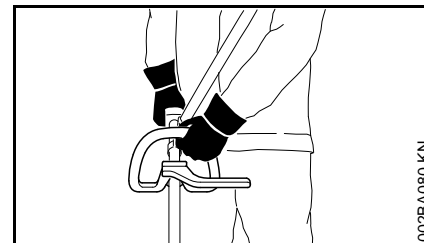
Make sure you always have a firm and secure footing.

### **For versions with bike handle**



Right hand on control handle, left hand on grip on handlebar.

### **For versions with loop handle**

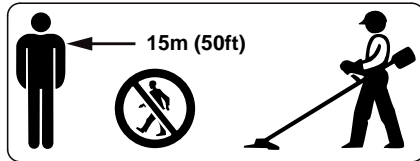


Left hand on loop handle, right hand on control handle, even if you are left-handed.

### While working

Make sure you always have a firm and secure footing.

In the event of impending danger or in an emergency, shut off the engine immediately – move the stop switch / slide control in the direction of **0**.



There is a risk of accident from ejected objects within a wide area around the working space, so you must ensure that there is no-one within a 15 m radius of the machine. This distance must also be maintained in relation to objects (vehicles, window panes) – **risk of property damage!** Even at distances beyond 15 m, the danger cannot be ruled out.

Check that the engine is properly idling so that the cutting tool will not continue rotating after you release the throttle trigger.

Check and correct the idle speed setting at regular intervals. If the cutting attachment still rotates at idle speed, have your dealer make proper adjustments or repairs. STIHL recommends you have this work done by a STIHL servicing dealer.

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

Watch out for obstacles: tree stumps, roots – **risk of tripping or stumbling!**

Only work while standing on the ground, never on a ladder, work platform or other unstable surface.

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

Take breaks when you start getting tired or feeling fatigue – **risk of accidents!**

Work calmly and carefully – in daylight conditions and only when visibility is good. Proceed with caution, do not put others in danger.



As soon as the engine is running, the power machine generates toxic exhaust gas. As soon as the engine is running, the power machine generates toxic exhaust gas. These gases may be odorless and invisible and may contain unburned hydrocarbons and benzene. 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.

Stop work immediately if you start suffering from nausea, headaches, impaired vision (e.g. your field of vision gets smaller), impaired hearing, dizziness, or impaired concentration – these symptoms may possibly be the result of too-high exhaust gas concentration – **Risk of accidents!**


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.

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

Dust, fumes and smoke produced while working may be hazardous to health. Wear respiratory protection in case of heavy dust or smoke emission.

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".

Check in particular that the fuel system has no leaks and the safety equipment is fully operative. Never use a power tool that is no longer safe to operate. In case of doubt, contact a dealer.

Do not operate your power tool with the choke lever in the warm start position  – the engine speed cannot be controlled in this position.



Never operate the unit without the correct deflector for the type of cutting attachment being used – **risk of injury** from ejected objects!





Check the work site – rocks, metal objects etc. could get caught up and ejected – potentially beyond a distance of 15 m – **risk of injury!** Such objects can also damage the cutting attachment and other property (e.g. parked vehicles, windows).



Be particularly careful when working on difficult, densely grown terrain.

When mowing in high shrubbery, under shrubbery and hedges: Hold the cutting tool at a working height of at least 15 cm – avoid risks to animals.

Always shut off the engine before leaving the unit unattended.

Examine the cutting attachment periodically at short intervals and as soon as you note any noticeable changes:

- Stop the engine, hold the machine securely, allow the cutting attachment to come to a stop
- Check condition and secure fitting; watch out for cracks
- Ensure that the cutting blades are sharp
- Replace damaged or blunt cutting attachments immediately, even in the event of minor hairline cracks

Clean grass and plant residue off the cutting attachment mounting at regular intervals – remove any accumulated material from the cutting attachment and deflector.

To reduce the risk of injury, shut off the engine before replacing the cutting attachment.



The gearbox gets hot during operation. Never touch the gearbox – **risk of burns!**

If a rotating cutting attachment touches a rock or another hard object, sparks may be generated which may possibly ignite combustible materials. Also dried-out plants and brushwood are combustible, above all in hot and dry weather. If there is a risk of fire, do not use cutting attachments in the vicinity of combustible materials, dried-out plants or brushwood. It is mandatory that you ask the responsible forestry office about current fire hazards.

### Using mowing heads

Extend the cutting attachment deflector with the attached parts specified in the User Manual.

Only use a deflector with a properly fitted blade, which limits the mowing line to the permissible length.

For manually adjustable mowing heads, always switch off the engine before adjusting the mowing line – **risk of injury!**

Misuse with mowing lines that are too long reduces the working speed of the engine. The constant slipping of the clutch causes overheating and damage to important components (e. g. clutch, plastic housing parts) – e. g. due to the cutting attachment rotating during idling – **risk of injury!**

### When using metal cutting attachments

STIHL recommends the use of original STIHL metal cutting attachments. These have been optimized for the machine and the user's requirements.

Metal cutting attachments rotate very fast, generating forces acting on the attachments and on the cuttings.

Metal cutting attachments must be sharpened in regular intervals in accordance with the instructions.

Unevenly sharpened metal cutting attachments generate an imbalance which may cause extreme loads on the machine – **risk of breakage!**

Dull or improperly sharpened cutting edges can put a higher load on the cutting attachment and increase the **risk of injury** from cracked or broken parts.

After each contact of the metal cutting attachment with hard objects (e.g. stones, rocks, metal parts), check it for damage (e.g. tears and deformation). Burrs and other visible accumulated material must be removed since they may come loose at any time while the machine is running and then be ejected – **risk of injury!**

Do not continue using or attempt to repair damaged or cracked cutting attachments by means of welding, straightening or modifying the shape (unbalanced).

Particles or pieces may come off and hit the operator or a bystander at a high speed – **risk of most severe injuries!**

To reduce the above-named risks involved in operating a metal cutting attachment, ensure that the diameter of

your metal cutting attachment is not too big. Also, the attachment must not be too heavy. It must be made of high-quality materials and have a suitable geometry (shape, thickness).

A metal cutting attachment not made by STIHL must not have a different weight, thickness, shape or a larger diameter than the largest STIHL metal cutting attachment approved for this metal cutting attachment – **risk of injury!**

### 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:

- Hand protection (wearing warm gloves)
- Work breaks

The period of usage is shortened by:

- Any personal tendency to suffer from poor circulation (symptoms: frequently cold fingers, tingling sensations).
- Low outside temperatures.
- The force with which the handles are held (a tight grip restricts 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.

### 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 original STIHL replacement parts. They are specifically designed to match your model and meet your performance requirements.

To reduce the risk of injury from unintentional engine startup, **always shut off the engine and disconnect the spark plug boot** before performing any repairs, maintenance or cleaning work. – 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.

To reduce the **risk of fire**, 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.

### Symbols on Deflectors

An **arrow** on the deflector shows the correct direction of rotation of the cutting attachments.

Some of the following symbols are applied to the outside of the deflector to indicate the approved combination of cutting attachment and deflector.



Deflector may be used with mowing heads.



Deflector must not be used with mowing heads.



Deflector may be used with grass cutting blades.



Deflector must not be used with grass cutting blades.



Deflector may be used with brush knives.



Deflector must not be used with brush knives.



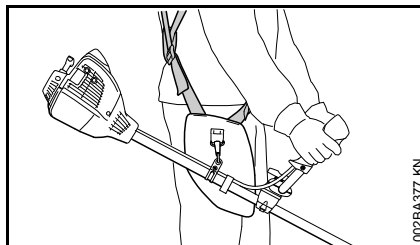
Deflector must not be used with shredder blades.



Deflector must not be used with circular saw blades.

## Harness

The harness is included with the machine or available as a special accessory.

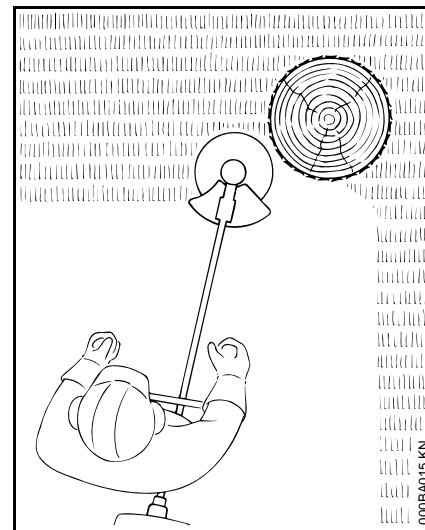


- Use the harness.
- With the engine running, attach the machine to the harness.

**Mowing heads, grass cutting blades and brush knives** must always be used in combination with a harness (shoulder strap).

**Circular saw blades** must always be used in combination with a full harness with a quick-release system.

## Mowing Head with Nylon Line



Nylon line achieves a soft cut for edging and trimming around trees, fence posts, etc. – less risk of damaging tree bark.

The mowing head comes with an instruction leaflet. Refill the mowing head with nylon line as described in the instruction leaflet.

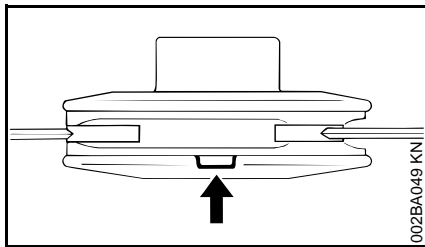
### **! WARNING**

To reduce the risk of serious injury, never use wire or metal-reinforced line in place of the nylon line.

## STIHL Polycut Mowing Head with Polymer Blades

For mowing unobstructed edges of meadows (without posts, fences, trees or similar obstacles).

### Check the wear limit marks!



If one of the wear limit marks on the PolyCut mowing head is worn through (arrow): Do not continue using the mowing head. Install a new one. There is otherwise a **risk of injury** from thrown parts of the head.

It is important to follow the maintenance instructions for the PolyCut mowing head.

The PolyCut can also be equipped with mowing line in place of the polymer blades.

The mowing head comes with instruction leaflets. Equip the mowing head with polymers blades or nylon line as described in the instruction leaflets.

### WARNING

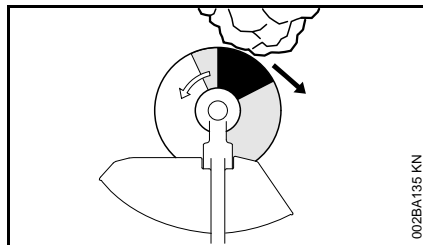
Never use wire in place of the nylon mowing line – **risk of injury**.

### Risk of Kickout (Blade Thrust) with Metal Cutting Attachments

#### WARNING

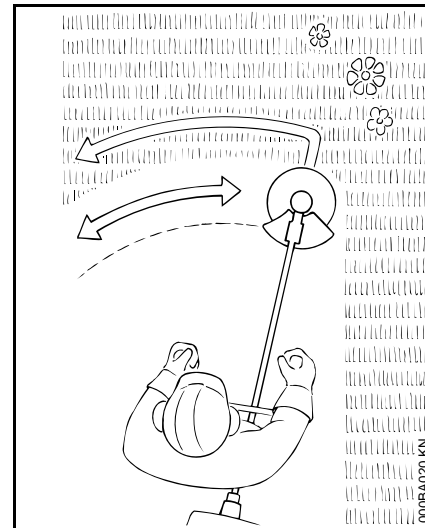


When using metal cutting attachments there is a risk of kickout when the rotating blade comes into contact with a solid object such as a tree trunk, branch, tree stump, rock or similar. The machine is thrown to the right or to the rear – opposite to the attachment's direction of rotation.



The **risk of kickout is greatest** when the **black area** of the rotating cutting attachment comes into contact with a solid object.

### Grass Cutting Blade



Use for grass and weeds only – sweep the brushcutter in an arc like a scythe.

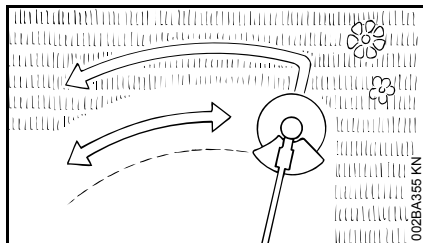
#### WARNING

Improper use may damage the grass cutting blade – **risk of injury** from thrown parts.

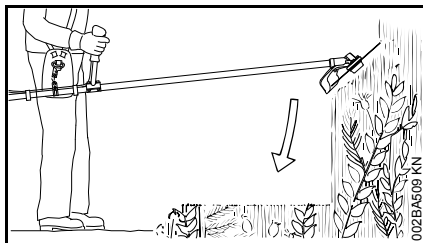
Resharpener the grass cutting blade according to instructions when it has dulled noticeably.

### Brush Knife

For cutting matted grass, wild growth and scrub and thinning young stands with a stem diameter of no more than 2 cm – do not cut thicker stems – **risk of accidents**.



Use the brushcutter like a scythe (sweep it to the right and left) at ground level when cutting grass and thinning young stands.



To cut wild growth and scrub, lower the brush knife down onto the growth to achieve a shredding effect – always keep the cutting attachment below hip level during this process.

Exercise extreme caution when using this method of cutting. The higher the cutting attachment is off the ground, the greater the risk of injury from cuttings being thrown sideways.

Warning! Improper use of a brush knife may cause it to crack, chip or shatter – **risk of injury** from thrown parts.

To reduce the risk of injury it is essential to take the following precautions:

- Avoid contact with stones, rocks, pieces of metal and other solid foreign objects.
- Never cut wood or shrubs with a stem diameter of more than 2 cm – use a circular saw blade for such work.
- Inspect the brush knife at regular short intervals for signs of damage. Do not continue working with a damaged brush knife.
- Resharpener the brush knife regularly and whenever it has dulled noticeably, and have it balanced if necessary (STIHL recommends a STIHL servicing dealer).

### Circular Saw Blade

Suitable for cutting shrubs and trees with a maximum stem diameter of 4 cm.

Before starting the cut, accelerate the engine up to full throttle. Perform cut with uniform pressure.

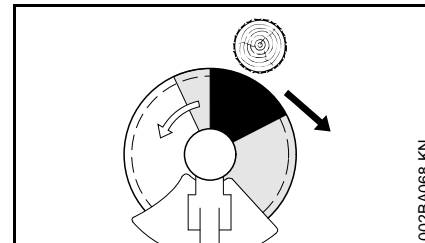
Use circular saw blades only with a matching limit stop of the correct diameter.

### **WARNING**

To reduce the risk of blade damage, avoid contact with stones and the ground. Resharpener the blade properly in good time – dull teeth may result in the blade cracking and shattering and causing serious injury.

When felling, maintain a distance of at least two tree lengths from the next felling site.

### **Risk of kickout**




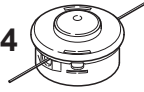


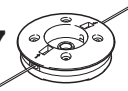

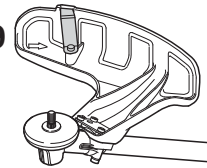
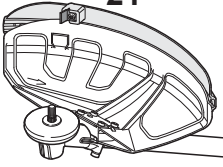
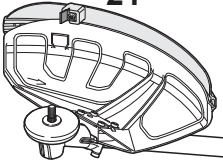






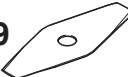





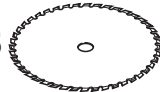

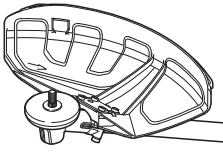


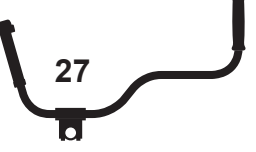




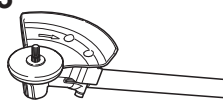
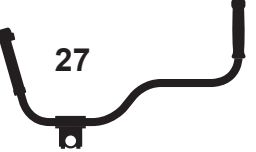



The risk of kickout is highest in the black area of the blade: Do not use this area of the circular saw blade for cutting.

There is also a risk of kickout when using the lighter shaded areas of the blade: These areas of the blade should only be used by experienced operators with specialized training.

STIHL recommends that you use the non-shaded area of the circular saw blade. Always start the cut with this area of the blade.

## Approved Combinations of Cutting Attachment, Deflector, Handle and Harness

Cutting attachment		Deflector, limit stop	Handle	Carrying strap
<p>1 </p> <p>2 </p> <p>3 </p> <p>4 </p> <p>5 </p> <p>6 </p> <p>7 </p> <p>8 </p>	<p>19 </p> <p>20 </p> <p>21 </p>	<p>24 </p> <p>25 </p> <p>26 </p> <p>27 </p>	<p>28 </p> <p>29 </p>	
<p>9 </p> <p>10 </p> <p>11 </p> <p>12 </p> <p>13 </p> <p>14 </p> <p>15 </p> <p>16 </p>	<p>22 </p>	<p>25 </p> <p>26 </p> <p>27 </p>	<p>28 </p> <p>29 </p>	
<p>17 </p> <p>18 </p>	<p>23 </p>	<p>27 </p>	<p>30 </p>	

0000-GXX-0366-A2

## Permissible combinations

Choose the correct combination from the table depending on the cutting tool!

### **WARNING**

For safety reasons only the cutting attachments, deflector, handle and harness versions within one line of the table may be combined with one another. No other combinations are permitted because of the **risk of accidents!**

## Cutting attachments

### **Mowing heads**

- 1 STIHL SuperCut 20-2
- 2 STIHL AutoCut 25-2
- 3 STIHL AutoCut C 26-2
- 4 STIHL AutoCut 30-2
- 5 STIHL AutoCut 36-2
- 6 STIHL TrimCut 31-2
- 7 STIHL DuroCut 20-2
- 8 STIHL PolyCut 20-3

### **Metal cutting tools**

- 9 Grass cutting blade 230-2 (Ø 230 mm)
- 10 Grass cutting blade 260-2 (Ø 260 mm)
- 11 Grass cutting blade 230-4 (Ø 230 mm)
- 12 Grass cutting blade 230-8 (Ø 230 mm)
- 13 Grass cutting blade 250-32 (Ø 250 mm)

- 14 Grass cutting blade 250-40 Spezial (Ø 250 mm)
- 15 Grass cutting blade 250-44 (Ø 250 mm)
- 16 Brush knife 250-3 (Ø 250 mm)
- 17 Circular saw blade 200 scratcher tooth (Ø 200 mm)
- 18 Circular saw blade 200-22 chisel tooth (4112), circular saw blade 200-22 HP chisel tooth (4001)

### **WARNING**

Grass cutting blades, brush knives and circular saw blades of other, non-metal materials must not be used.

## Deflectors, limit stop

- 19 Deflector for mowing heads (not approved for FS 260 R)
- 20 Deflector **with**
- 21 Skirt and blade for mowing heads
- 22 Deflector **without** skirt and blade for metal cutting attachments, items 9 to 16
- 23 Limit stop for circular saw blades

## Handles

- 24 Loop handle
- 25 Loop handle **with**
- 26 Barrier bar
- 27 Bike handle

## Shoulder straps

- 28 Shoulder strap must be used
- 29 Full harness can be used
- 30 Full harness must be used

## Approved Power Tool Attachments

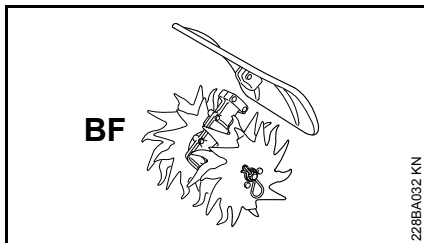
FS 240, FS 240 R only



### NOTICE

Interchangeable attachments are not approved for the STIHL FS 260 R.

The following STIHL attachment may be mounted to the basic power tool:



Interchangeable

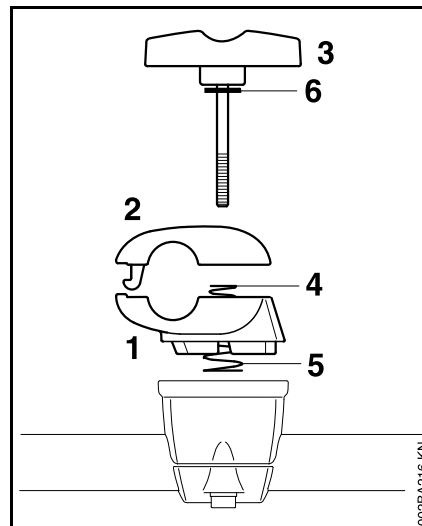
Attachment	Application
BF	Pick tines

## Mounting the Bike Handle

### Mounting Bike Handle with Swiveling Handle Support

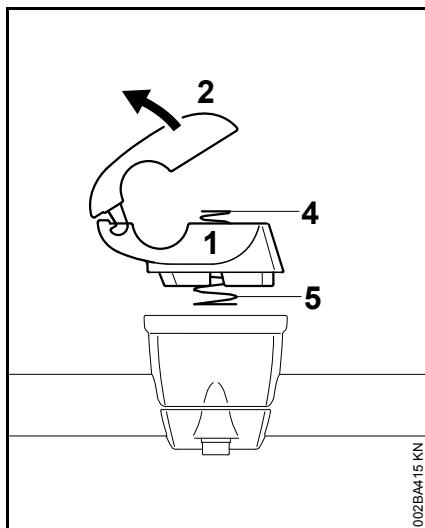
The machine is supplied with the swiveling handle support already mounted on the shaft. To mount the handlebar it is necessary to remove the clamp moldings.

## Removing the Clamp Moldings

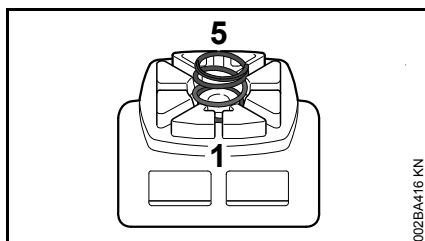


- Hold the lower clamp (1) and upper clamp (2) firmly together.
- Release the wing screw (3) – the clamps are loose once the wing screw has been released. They are pushed apart by the two springs (4 and 5).
- Pull out the wing screw – the washer (6) remains on the wing screw.





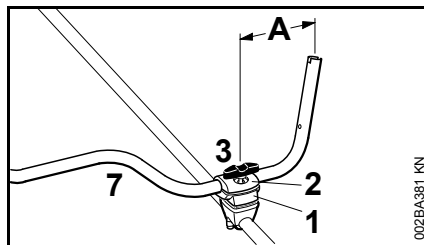
- Hold the lower clamp (1) steady and remove the upper clamp (2) – separate the parts so that the springs (4, 5) remain in position in the lower clamp.



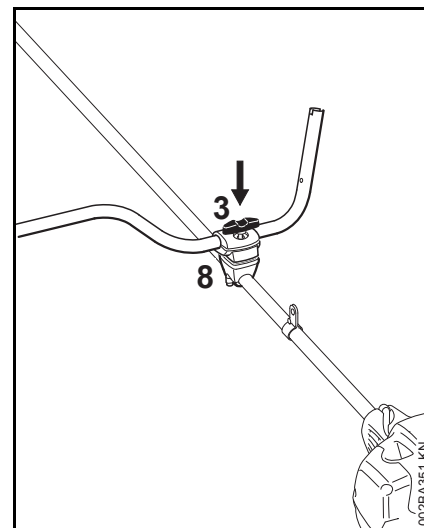
If the spring (5) has slipped out of the lower clamp (1):

- Fit the spring in the clamp's annular groove as shown.

### Securing the Handlebar

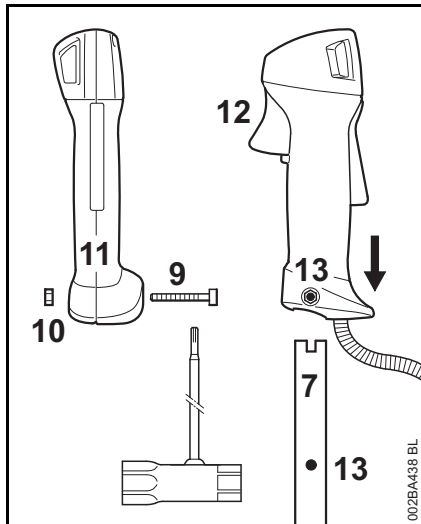


- Place the handlebar (7) in the lower clamp (1) so that distance A is no more than 15 cm (6 in).
- Place the upper clamp in position and hold both clamp moldings together.
- Push the wing screw (3) through the two clamps as far as stop – hold all parts together and secure them.



- Place the secured assembly on the handle support (8) with the wing screw at the side nearest the engine.
- Push the wing screw (3) into the handle support as far as stop and then screw it down – but do not finally tighten yet.
- Line up the handlebar at a right angle to the drive tube – check distance A again.
- Tighten down the wing screw firmly.

### Mounting the Control Handle



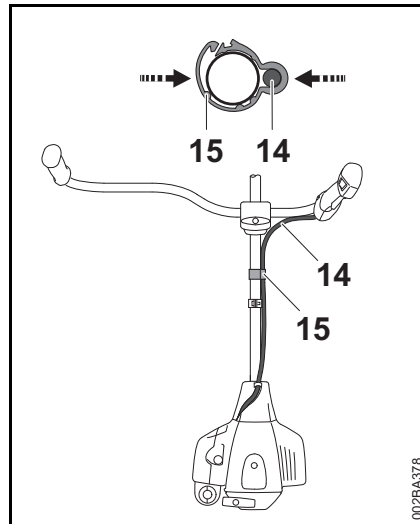
- Take out the screw (9) – remove the nut (10) from the control handle (11).
- Push the control handle onto the end of the handlebar (7) until the holes (13) line up – the throttle trigger (12) must point towards the gearhead.
- Fit the nut (10) in the control handle, insert the screw (9) and tighten it down firmly.

### Fitting the throttle cable



#### NOTICE

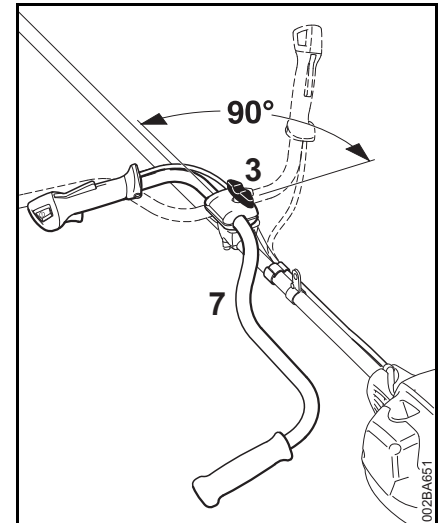
Do not kink the throttle cable or lay it in tight radii – make sure the throttle trigger moves freely.



- Position the clamp (15) and handle support (14) against the drive tube.
- Close the throttle cable retainer (15). The retainer (15) snaps into place.

### Swiveling the Handlebar

#### Transport position



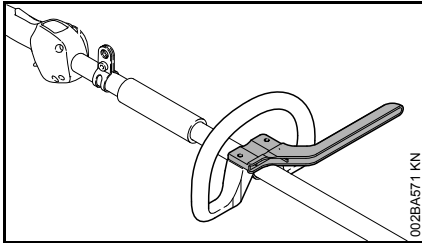
- Loosen the wing screw (3) and unscrew it until the handlebar (7) can be rotated.
- Rotate the handlebar 90° counterclockwise and then swing the handles down.
- Tighten down the wing screw (3) firmly.

#### Working position

- Reverse the sequence described above to swing the handles up and turn the handlebar clockwise.

## Mounting the Loop Handle

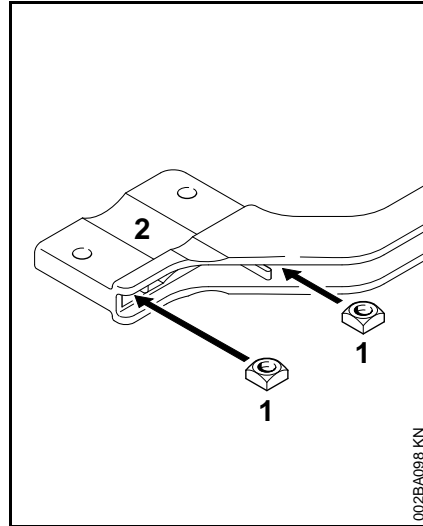
### Using the Barrier Bar



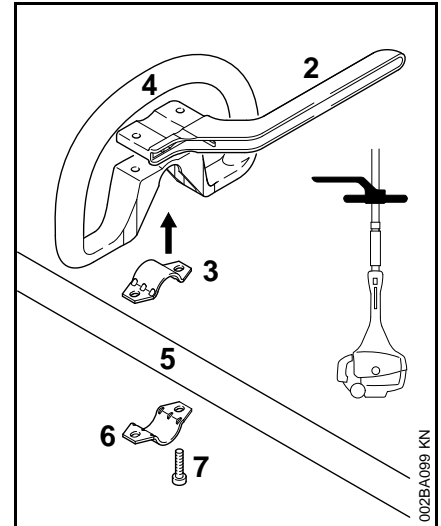
A barrier bar may have to be mounted to suit the tool you intend to use – see "Approved Combinations of Cutting Attachment, Deflector, Handle and Harness".

The barrier bar comes standard with the machine or is available as a special accessory.

### Mounting Loop Handle with Barrier Bar

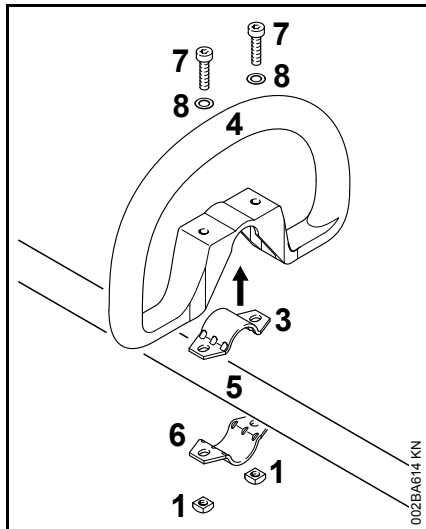


- Fit the square nuts (1) in the barrier bar (2); the holes must line up.



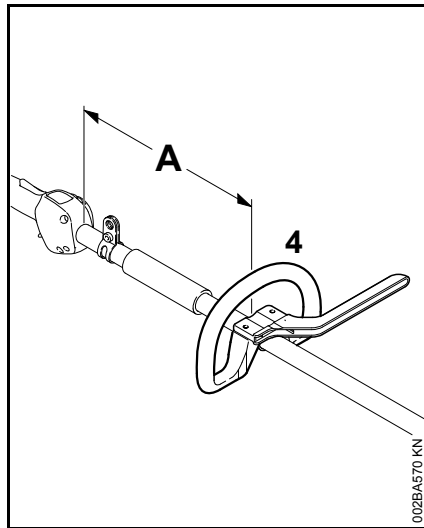
- Place the clamp (3) in the loop handle (4) and position them both against the drive tube (5).
- Position the clamp (6) against the drive tube.
- Place the barrier bar (2) in position as shown.
- Line up the holes.
- Insert the screws (7) in the holes and screw them into the barrier bar (2) as far as stop.
- Go to "Securing the Loop Handle".

## Mounting the Loop Handle without Barrier Bar



- Place the clamp (3) in the loop handle (4) and position them both against the drive tube (5).
- Position the clamp (6) against the drive tube.
- Line up the holes.
- Fit washers (8) on the screws (7) and insert the screws in the holes. Fit the square nuts (1) and screw them down as far as stop.
- Go to "Securing the Loop Handle".

## Adjusting and Securing the Loop Handle



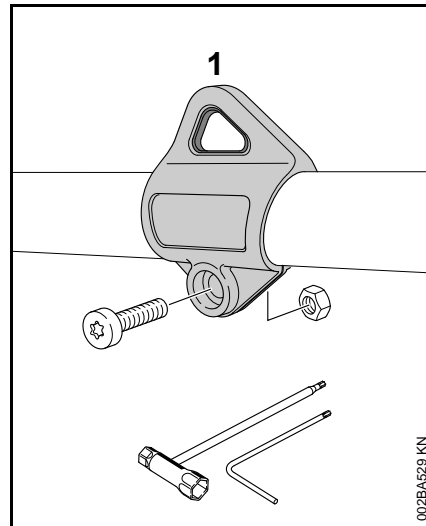
The loop handle can be adjusted to suit the height and reach of the operator and the application by changing distance (A).

Recommendation: distance (A): about 30 cm (12 in)

- Slide the handle to the required position.
- Line up the loop handle (4).
- Tighten down the screws until the loop handle can no longer be rotated on the drive tube. If no barrier bar is fitted – lock the nuts if necessary.

## Fitting the Carrying Ring

### Polymer Version



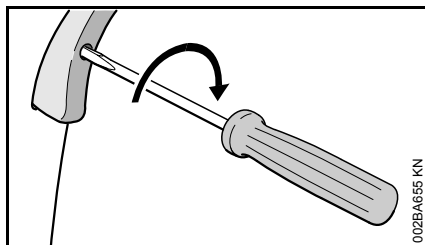
For position of carrying ring see "Main Parts".

- Push the carrying ring (1) over the drive tube.
- Insert the M5 nut in the hex recess in the carrying ring.
- Fit the M5x14 screw.
- Line up the carrying ring.
- Tighten down the screw firmly.

## 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.

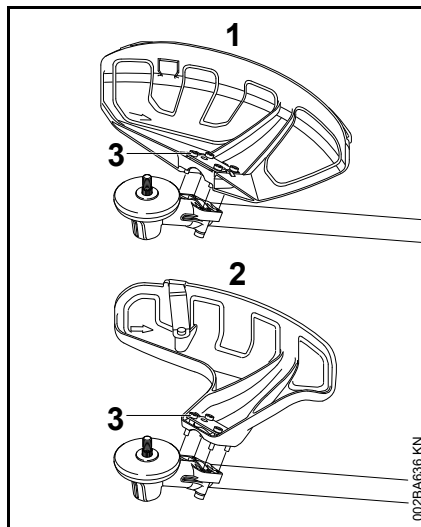
Adjust the throttle cable only when the unit is completely and properly assembled.



- Set the throttle trigger to the full throttle position.
- Carefully rotate the screw in the throttle trigger in the direction of the arrow until you feel initial resistance. Then rotate it another half turn in the same direction.

## Mounting the deflector

### Mounting the Deflector



- 1 Deflector for mowing attachments
- 2 Deflector for mowing heads

Deflectors (1 and 2) are both mounted to the gearbox in the same way.

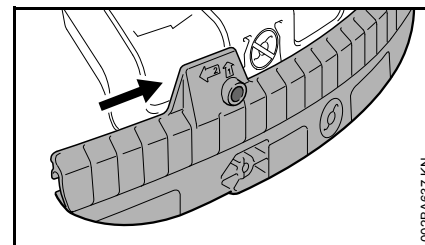
- Place the deflector on the gearbox flange.
- Insert the screws (3) and tighten them down firmly.

### Fitting the Skirt and Blade

#### **!** WARNING

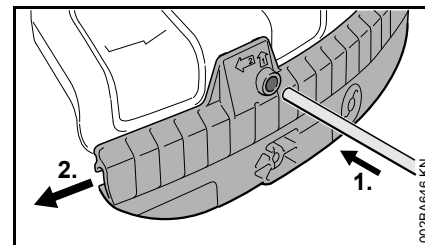
Risk of injury from thrown objects and contact with the cutting attachment. These parts (1) must be fitted to the deflector (1) when you use a mowing head.

### Fitting the Skirt



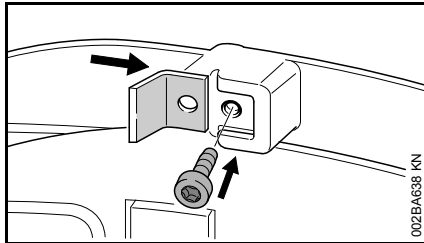
- Slide the lower guide slot of the skirt onto the deflector – it must snap into position.

### Removing the Skirt



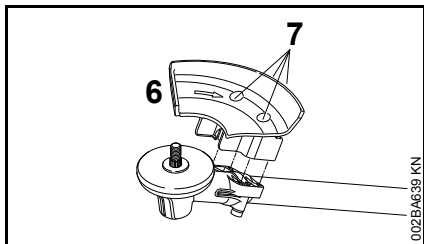
- Insert the stop pin into the hole in the skirt and use it to push the skirt to the left.
- Pull the skirt off the deflector.

## Mounting the Blade



- Slide the line limiting blade into the guide on the skirt.
- Insert the screw and tighten it down firmly.

## Mounting the Limit Stop



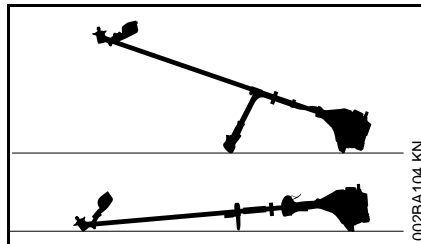
### **!** WARNING

Risk of injury from thrown objects and contact with the cutting attachment. Always fit the limit stop (6) when you use a circular saw blade.

- Position the limit stop (6) on the gearbox flange.
- Insert the screws (7) and tighten them down firmly.

## Mounting the Cutting Attachment

### Placing power tool on the ground



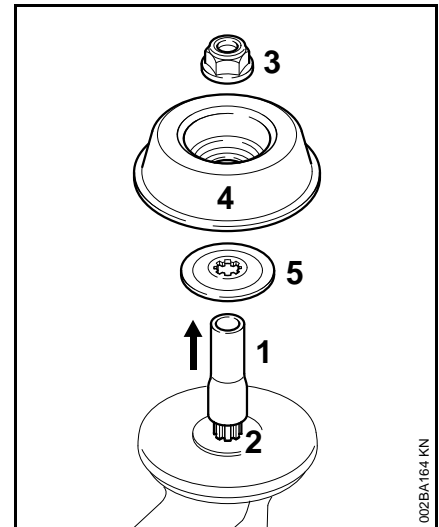
- Shut off the engine.
- Lay your power tool on its back so that the cutting attachment mounting face is pointing up.

### Mounting Hardware for Cutting Attachments

The mounting hardware supplied depends on the cutting attachment that comes as original equipment with the new machine.

#### Machine supplied with mounting hardware

Mowing heads and metal cutting attachments may be mounted.



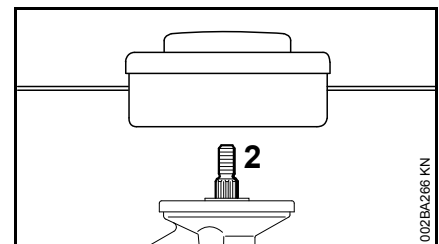
Depending on the cutting attachment, it may be necessary to use the nut (3), rider plate (4) and thrust washer (5).

These parts are included in a kit supplied with the machine and are also available as special accessories.

#### Removing the transport lock

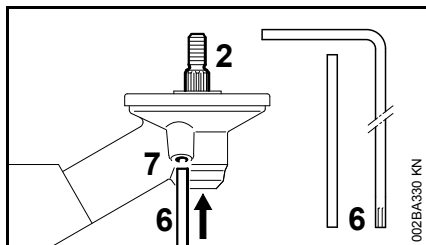
- Pull the hose (1) off the shaft (2).

#### Machine supplied without mounting hardware



Only mowing heads may be used which mount directly to the shaft (2).

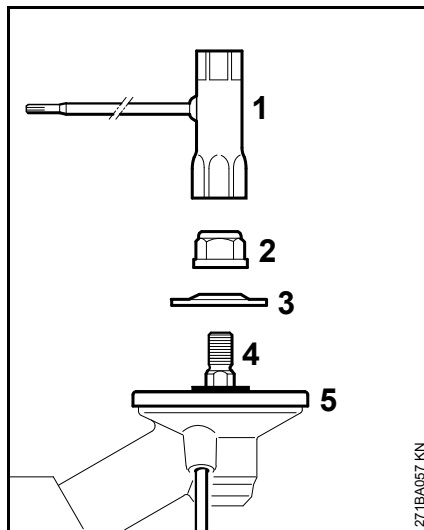
## Blocking the Shaft



The output shaft (2) must be blocked with the stop pin (6) or screwdriver (6) to mount or remove cutting attachments. These parts come standard with the machine or are available as special accessories.

- Insert the stop pin (6) or screwdriver (6) in the hole (7) in the gearbox as far as stop – and apply slight pressure.
- Rotate shaft, nut or cutting attachment until the stop pin slips into position and blocks the shaft.

## Removing the Mounting Hardware



- Block the shaft.
- Use the combination wrench (1) to loosen and remove the nut (2) clockwise (left-hand thread).
- Take the thrust washer (3) off the shaft (4). Do not remove the thrust plate (5).

## Mounting the Cutting Attachment

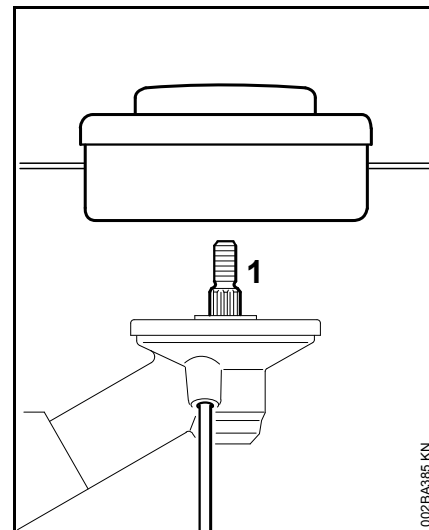


### WARNING

Use a deflector that matches the cutting attachment – see "Mounting the Deflector".

## Fitting the mowing head with screw mounting

Keep the supplement sheet for the mowing head in a safe place.



- Fit the thrust plate
- Turn the mowing head anticlockwise on the shaft (1) as far as it will go
- Retain the shaft
- Tighten the mowing head



### NOTICE

Remove the tool that was used to block the shaft.

## Removing the Mowing Head

- Retain the shaft
- Turn the mowing head clockwise

## Mounting Metal Cutting Attachments

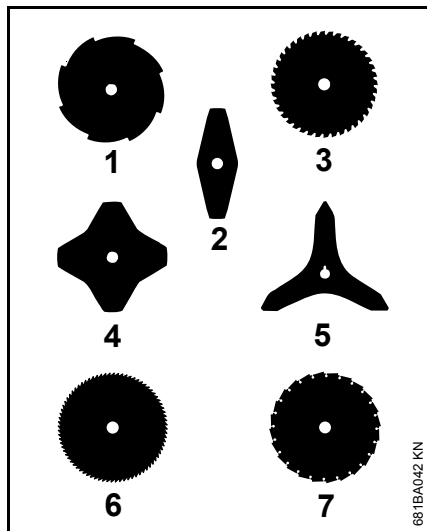
Keep the leaflet and packaging of the metal cutting attachment in a safe place.

### **! WARNING**

Wear protective gloves to reduce the risk of direct contact with the sharp cutting edges.

Mount only one metal cutting attachment.

Check direction of rotation of cutting attachment

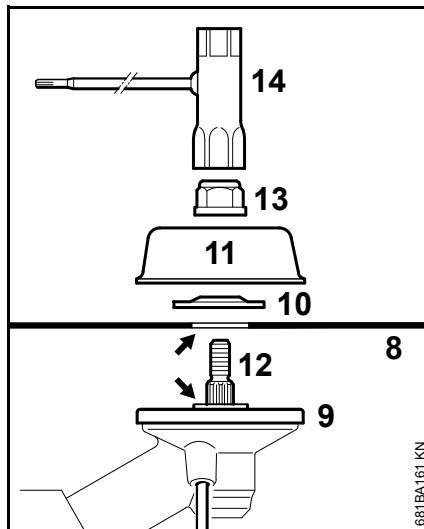


Cutting attachments 2, 4 and 5 may be mounted either way round – they must be turned over regularly to help avoid one-sided wear.

The cutting edges of cutting attachments 1, 3, 6 and 7 must point clockwise.

### **! WARNING**

Direction of rotation is indicated by an arrow on the inside of the deflector.



- Place the cutting attachment (8) on the thrust plate (9).

### **! WARNING**

Collar (see arrow) must engage the cutting attachment's mounting hole.

### Securing the cutting attachment

- Fit the thrust washer (10) – convex side must face up.
- Fit the rider plate (11).
- Block the shaft (12).
- Use the combination wrench (14) to screw the mounting nut (13) on to the output shaft counterclockwise and tighten it down firmly.

### **! WARNING**

If the mounting nut has become too loose, fit a new one.

### **⚙ NOTICE**

Remove the tool used to block the shaft.

## Removing the Metal Cutting Attachment

### **! WARNING**

Wear protective gloves to reduce the risk of direct contact with the sharp cutting edges.

- Block the shaft.
- Unscrew the mounting nut clockwise.
- Remove cutting attachment and its mounting hardware from the gearbox – but **do not** remove the thrust plate (9).



## Fuel

Your engine requires a mixture of gasoline and engine oil.

### WARNING

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 uses STIHL HP Ultra two-stroke engine oil for an extra long engine life.

MotoMix is not available in all markets.

### Mixing Fuel

### NOTICE

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.

Gasoline with an ethanol content of more than 10% can cause running problems in engines with a manually adjustable carburetor and should not be used in such engines.

Engines equipped with M-Tronic deliver full power when run on gasoline with an ethanol content of up to 25% (E25).

### Engine Oil

If you mix the fuel yourself, use only STIHL two-stroke engine oil or another high-performance engine oil in accordance with 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.

### Mix Ratio

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

### Examples

Gasoline Liters	STIHL engine oil 50:1 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)

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

### 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 30 days. Exposure to light, the sun, low or high temperatures can quickly make the fuel mix unusable.

STIHL MotoMix may be stored for up to 2 years without any problems.

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

### WARNING

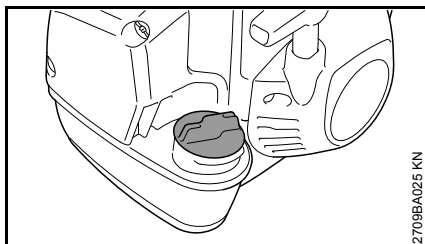
Pressure may build up in the canister – open it carefully.

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

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

## Fueling

### Fuel Filler Cap

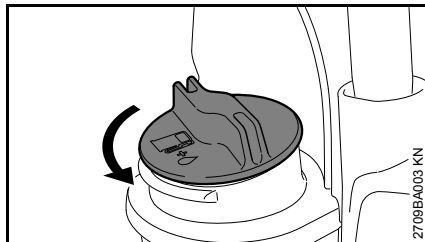


#### **! WARNING**

When fueling on a slope, always position the machine with the filler cap facing uphill.

- Place the machine on level ground so that the filler cap is facing up.
- Before fueling, clean the filler cap and the area around it to ensure that no dirt falls into the tank.

### Opening the filler cap



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

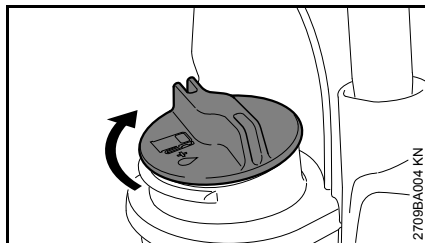
### Filling Up with Fuel

Take care not to spill fuel while fueling and do not overfill the tank.

STIHL recommends you use the STIHL filler nozzle for fuel (special accessory).

- Fill up with fuel.

### Closing the filler cap



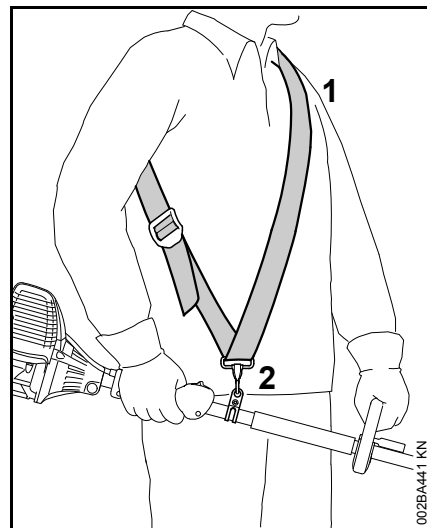
- Place the cap in the opening.
- Turn the cap clockwise as far as stop and tighten it down as firmly as possible by hand.

## Fitting the Harness

The type and style of the harness/shoulder strap depend on the market.

The use of the shoulder strap is described in the chapter on "Approved Combinations of Cutting Attachment, Deflector, Handle and Harness".

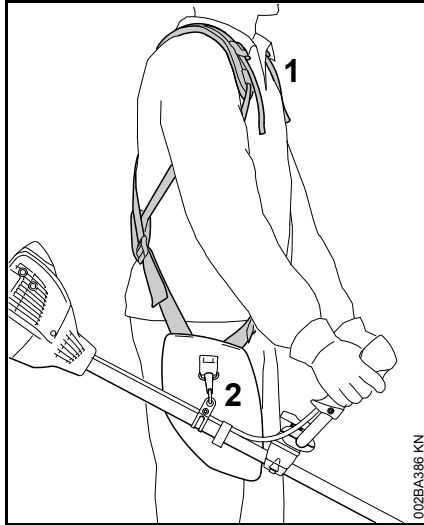
### Shoulder Strap



- Put on the shoulder strap (1).
- Adjust the length of the strap so that the carabiner (2) is about a hand's width below your right hip.
- Balance the machine – see "Balancing the Machine".

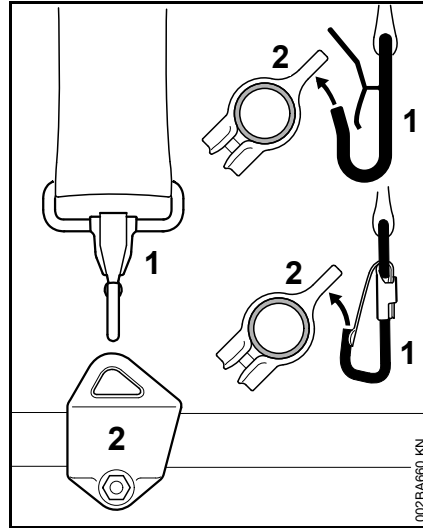
## Full harness

Fitting the full harness is described in detail in the instruction sheet supplied.



- Put on the full harness (1).
- Adjust the length of the strap so that the carabiner (2) is about a hand's width below your right hip.
- Balance the brushcutter.

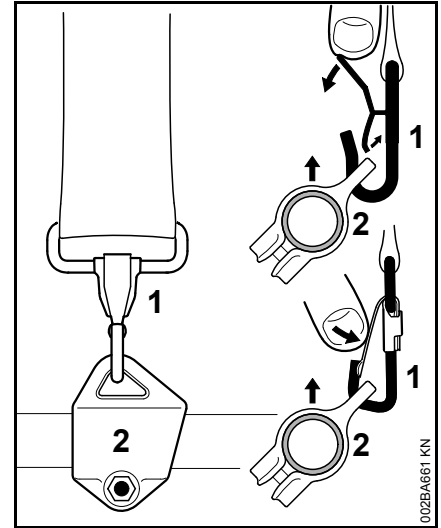
## Attaching Machine to Harness



The type and style of the harness and carabiner (spring hook) depend on the market.

- Attach the carabiner (1) to the carrying ring (2) on the drive tube.

## Disconnecting Machine from Harness



- Press down the bar on the carabiner (1) and pull the carrying ring (2) out of the carabiner.

## Throwing Off the Machine

### **!** WARNING

The machine must be quickly thrown off in the event of imminent danger. Practice removing and putting down the machine as you would in an emergency. To avoid damage, do not throw the unit to the ground when practicing.

Practice quickly detaching the power tool from the carabiner as described under "Disconnecting Machine from Harness".

If you are using a shoulder strap:  
Practice slipping the strap off your  
shoulder.

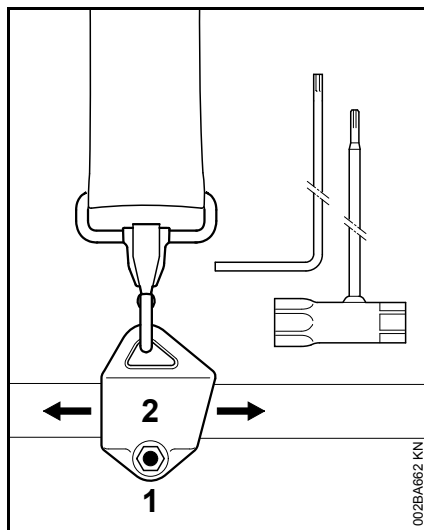
If you are using a full harness: Practice  
quickly opening the locking plate and  
slipping the harness straps off your  
shoulders.

## Balancing the Machine

### Balancing the Machine

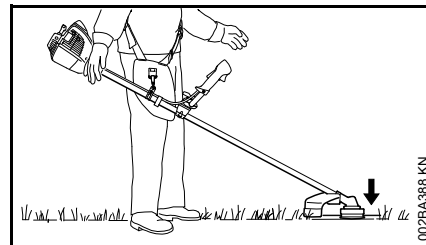
The unit is balanced differently  
depending on the cutting attachment  
used.

Proceed as follows until the conditions  
specified under "Floating positions"  
have been met:



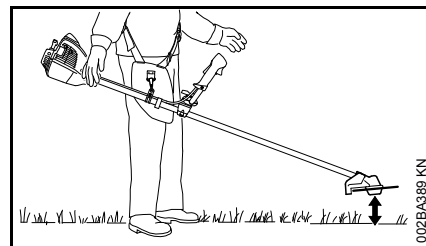
- Loosen the screw (1).
- Slide the carrying ring (2) along the drive tube.
- Tighten the screw moderately.
- Allow the unit to hang freely.
- Check the position obtained.

### Balanced positions



Mowing tools such as mowing heads,  
grass cutting blades and brush knives

- should just touch the ground.



Circular saw blades

- should "hover" about 20 cm (8 in)  
above the ground.

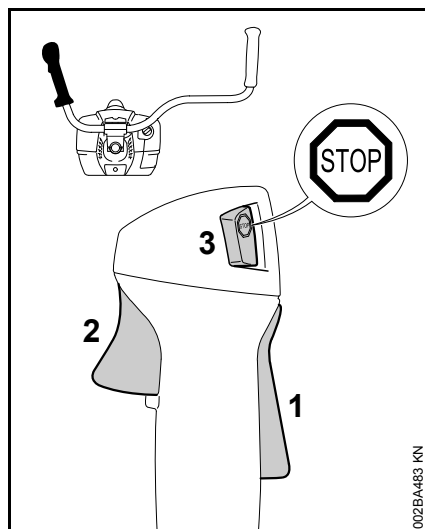
When the correct floating position has  
been reached:

- Tighten down the screw on the  
carrying ring firmly.

## Starting / Stopping the Engine

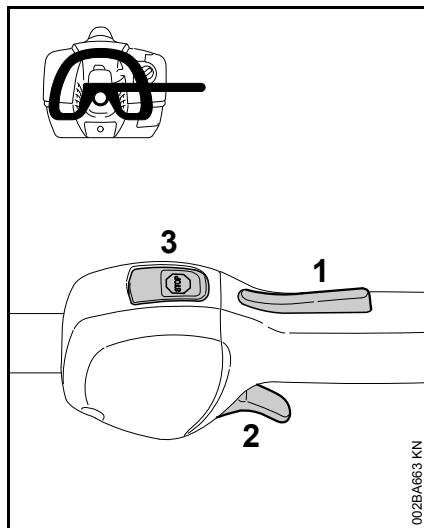
### Controls

#### Version with bike handle



- 1 Throttle trigger lockout
- 2 Throttle trigger
- 3 Stop switch with **Run** and **Stop** positions. Press the stop switch (⊖) to switch off the ignition – see "Function of stop switch and ignition system".

#### Version with loop handle

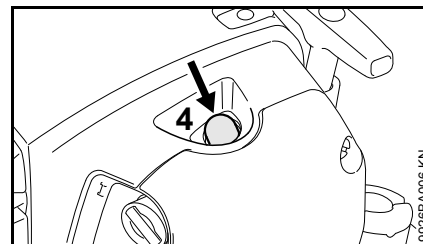


- 1 Throttle trigger lockout
- 2 Throttle trigger
- 3 Stop switch with **Run** and **Stop** positions. Press the stop switch (⊖) to switch off the ignition – see "Function of stop switch and ignition system".

#### Function of stop switch and ignition system

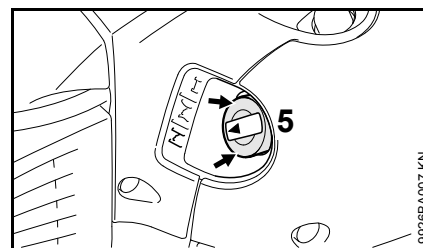
The stop switch is normally in the Run position, i.e. when it is **not** depressed: The ignition is switched on – the engine is ready to start. Operate the stop switch to switch off the ignition. The ignition is switched on again automatically after the engine stops.

#### Starting the Engine



- Press the manual fuel pump bulb (4) at least five times – even if the bulb is filled with fuel.

#### Cold engine (cold start)

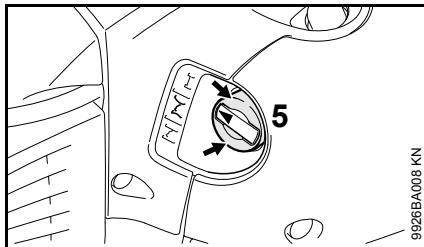



- Press in the rim (arrows) of the choke lever (5) and then turn it to **I**.

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

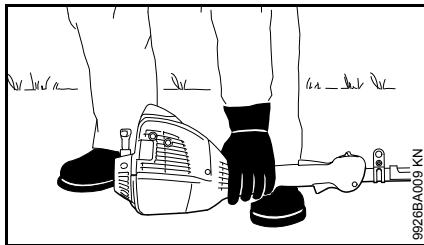
#### Hot engine (hot start)

The engine has reached normal operating temperature, then shut down and restarted after more than 5 minutes.



- Press in the outer edge (arrows) of the choke knob (5) and then turn it to .

### Cranking



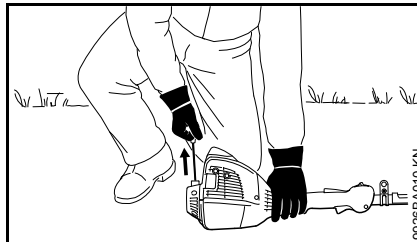
- Place the unit on the ground: It must rest securely on the engine's guard plate and the deflector.
- If fitted: Remove the transport guard from the cutting attachment.

**To reduce the risk of accidents,** check that the cutting attachment is not touching the ground of any other obstacles.

- Make sure you have a firm footing, either standing, stooping or kneeling.
- Hold the unit **firmly** on the ground with your left hand and press down – do not touch the throttle trigger or lockout lever – your thumb should be under the fan housing.

### NOTICE

Do not stand or kneel on the drive tube.



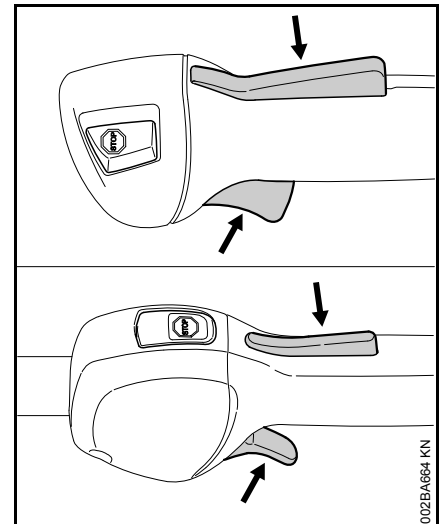
- Hold the starter grip with your right hand.
- Pull the starter grip steadily.

### NOTICE

Do not pull out the starter rope all the way – **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.

### As soon as the engine runs



- Press down the throttle trigger lockout and open the throttle – the choke knob moves to the run position I. After a cold start, warm up the engine by opening the throttle several times.

### WARNING

Make sure the carburetor is correctly adjusted. The cutting attachment must not rotate when the engine is idling.

Your machine is now ready for operation.

### Stopping the Engine

- Depress the momentary contact stop switch – the engine stops – release the stop switch – it springs back to the run position.

## Other Hints on Starting

### At very low outside temperatures

- Set the engine to winter operation if necessary, see "Winter Operation".
- If your machine is very cold (frost or ice on machine), start the engine and keep it at a high idle speed (cutting attachment rotates) until it reaches normal operating temperature.

### Engine stalls in cold start position $\overline{I}$ or under acceleration

- Move the choke lever to  $\overline{II}$  and continue cranking until the engine runs.

### Engine does not start in hot start position $\overline{II}$

- Move the choke lever to  $\overline{I}$  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.

### Engine is flooded

- Move the choke lever to  $\overline{II}$  and continue cranking until the engine runs.

## Fuel tank run until completely dry

Recommendation: Carry out the following steps irrespective of the engine's operating condition before the tank was run dry.

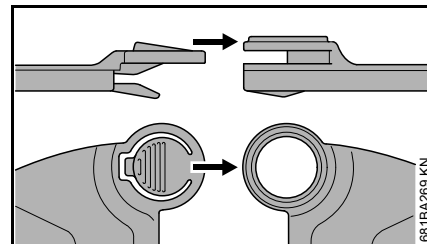
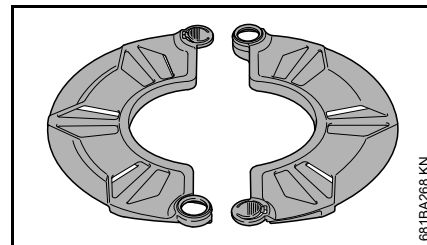
- Set the choke lever to  $\overline{I}$ .
- Go to section on "Starting the Engine" and re-start the engine as described for a cold engine.

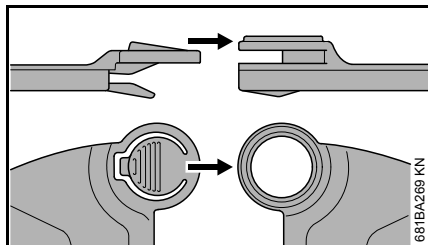
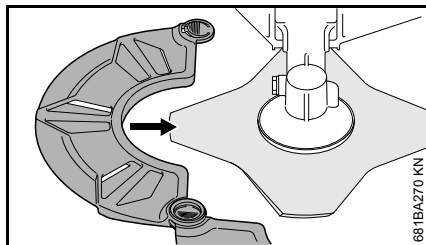
## Mounting the Transport Guard

### Using Transport Guard

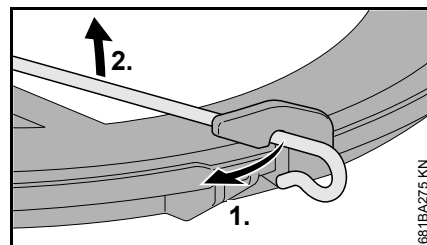
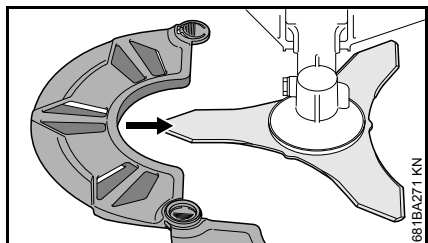
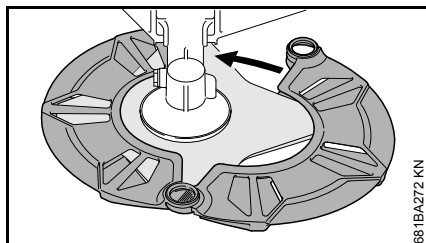
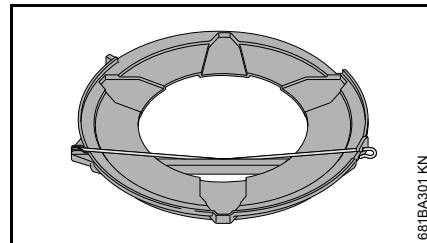
The type of transport guard depends on the metal cutting attachment supplied with the machine. Transport guards are available as special accessories.

### 230 mm Grass Cutting Blades



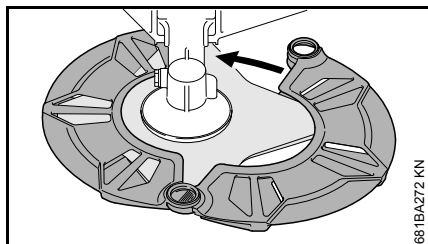
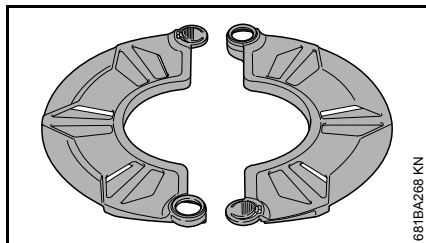


### Grass Cutting Blades up to 260 mm

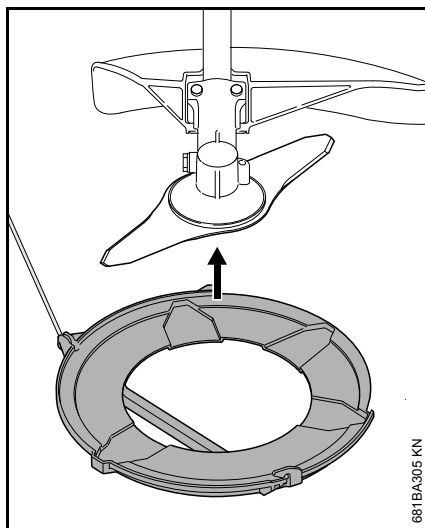


- Disconnect wire rod from the transport guard.
- Swing wire rod outwards.

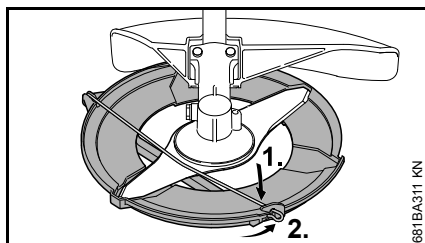
### 250 mm Brush Knives





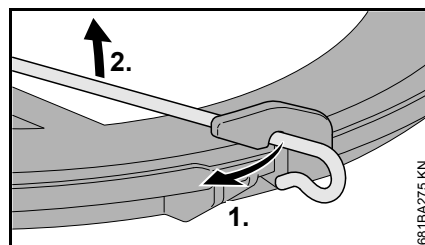
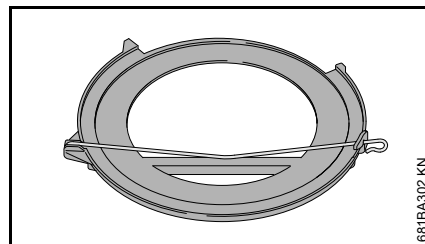


- Fit the transport guard on the cutting attachment from below.

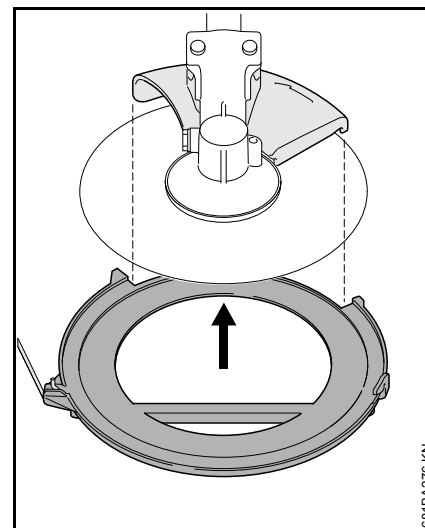


- Swing wire rod into position.
- Hook wire rod to the transport guard.

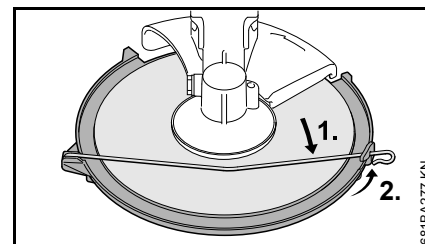
## Circular Saw Blades



- Disconnect wire rod from the transport guard.



- Swing wire rod outwards.
- Fit transport guard on saw blade from below, making sure the limit stop is properly seated in the recess.



- Swing wire rod into position.
- Hook wire rod to the transport guard.

## Operating Instructions

### During break-in period

A factory-new machine should not be run at high revs (full throttle off load) for the first three tank fillings. This avoids unnecessary high loads during the break-in period. As all moving parts have to bed in during the break-in period, the frictional resistances in the engine are greater during this period. The engine develops its maximum power after about 5 to 15 tank fillings.

### 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 protects engine-mounted components (ignition, carburetor) from thermal overload.

### After Finishing Work

Storing for a short period: Wait for the engine to cool down. Empty the fuel tank and 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".

## Air filter

### General Information

The filter has a very long service life.

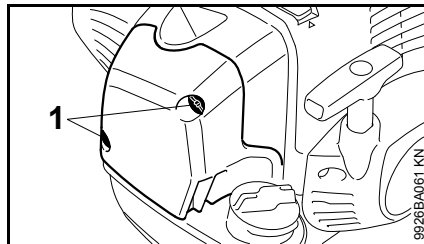
Do not remove the filter cover or replace the air filter as long as there is no noticeable loss of power.

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

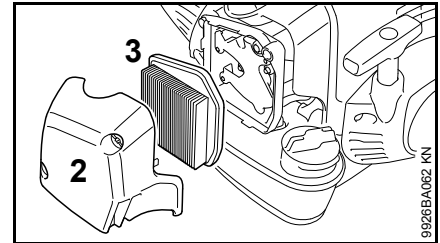
### Replacing the Air Filter

Only if there is a noticeable loss of engine power

- Turn the choke knob to  $\overline{I}$ .



- Loosen the screws (1).



- Remove the filter cover (2).
- Clean away loose dirt from around the filter (3) and inside the filter cover.

The air filter (3) is a pleated paper filter element.

- Remove and check the filter element (3) – replace if paper or frame is dirty or damaged.
- Unpack the new filter.

### NOTICE

Do not bend or twist the filter before installation as it might otherwise be damaged – do not use damaged filters.

- Fit the filter in the filter housing.
- Fit the filter cover.

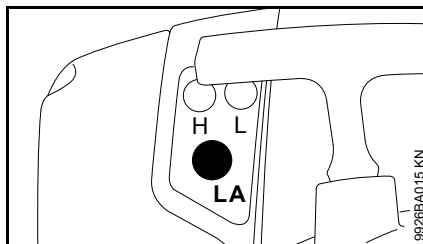
Use only high quality air filters to ensure the engine is protected from abrasive dust.

STIHL recommends you use only original STIHL air filters. The high quality standard of these parts guarantees trouble-free operation, a long engine life and very long filter service lives.

## Filter Element for Winter Operation

Maintenance and care of the special filter element for winter operation are described in the chapter on "Winter Operation".

## Adjusting the Carburetor



The carburetor has been set at the factory to provide an optimum fuel-air mixture under most operating conditions.

## Adjusting idle speed

### Engine stops while idling

- Turn the idle speed screw (LA) slowly clockwise until the engine runs smoothly.

### Cutting tool rotates when engine is idling

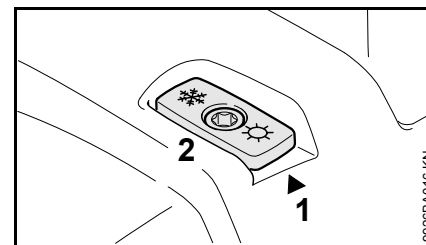
- Turn the idle speed screw (LA) slowly counterclockwise until the cutting attachment stops moving.

## Winter Operation

### At temperatures below +10°C

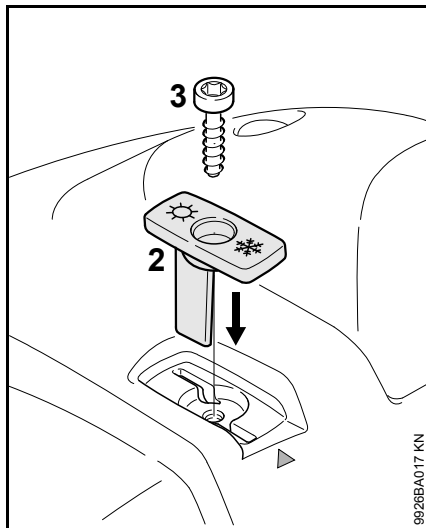
### Preheating the carburetor

Repositioning a shutter allows heated air to be drawn in from around the cylinder and mixed with cold air – this helps prevent carburetor icing.



An arrow (1) on the shroud indicates the setting of the shutter (2) for summer or winter operation. Meaning of symbols:

- "Sun" = summer operation
- "Snowflake" = winter operation

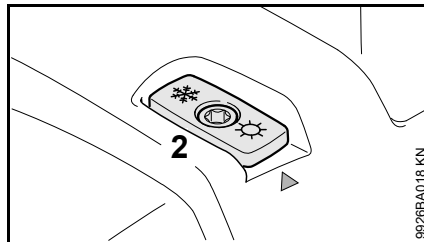


- Remove the screw (3) from the shutter.
- Pull the shutter (2) out of the shroud.
- Rotate the shutter (2) from the summer position to the winter position and refit it.
- Secure the shutter in position with the screw (3).

### At temperatures between +10°C and +20°C

The machine can normally be operated in this temperature range with the shutter (2) in the summer position. Change the position of the shutter if necessary.

### At temperatures above +20°C



- Always return the shutter (2) to the summer position.



#### **NOTICE**

Do not operate the machine in the winter position at temperatures above +20°C because there is otherwise a risk of engine running problems and overheating.

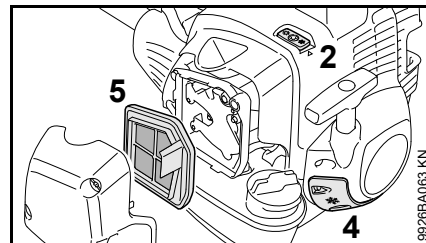
### At temperatures below -10°C

In extreme wintry conditions

- Temperatures below -10°C
- Powder or drifting snow

it is advisable to use the optional "cover plate kit".

Two different cover plate kits are available to suit the different tank caps.



The cover plate kits contain the following parts for converting the power tool:

- 4 Cover plate partially blanks off the slots in the starter housing
- 5 Synthetic fabric filter element for the air filter
- Instructions for converting the machine

For machines with tank cap with hinged grip:

- O-ring for the tank filler cap

After installing the cover plate kit:

- Set the shutter (2) to the winter position.

### At temperatures above -10°C

- Remove the parts of the cover plate kit and refit the standard parts for summer operation.

Note for machines with tank cap with hinged grip: The O-ring supplied with the cover plate kit can be left on the machine's tank cap.

Depending on the ambient temperature:

- Set the shutter (2) to the summer or winter position.

## Cleaning the Air Filters

- Loosen filter cover mounting screws.
- Remove the filter cover.
- Clean away loose dirt from around the filter (5) and inside the filter cover.
- Knock the filter (5) out on the palm of your hand or blow it clear with compressed air from the inside outwards.

In case of stubborn dirt or sticky filter fabric:

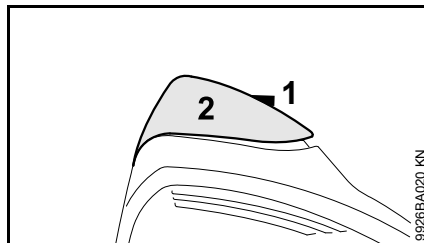
- Wash the filter in a clean, non-flammable solution (e.g. warm soapy water) and then dry.

Always replace a damaged filter.

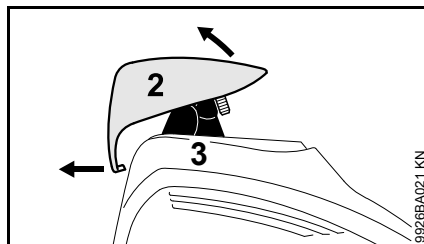
## Spark Plug

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

## Removing the Spark Plug

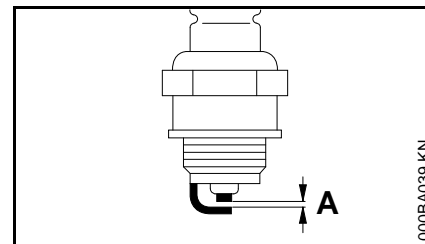


- Rotate the screw (1) in the cap (2) until the screw head projects from it.



- Lift the front of the cap (2) and push it to the rear to disengage.
- Leave the cap to one side.
- Pull off the spark plug boot (3).
- Unscrew the spark plug.

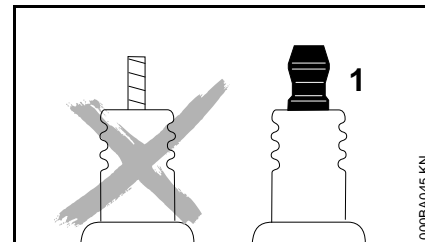
## Checking the Spark Plug



- 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.



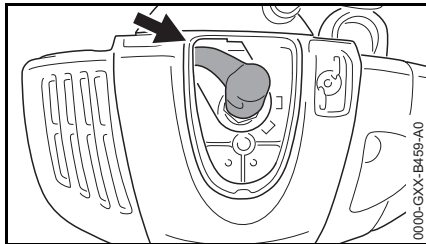
## ! WARNING

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.

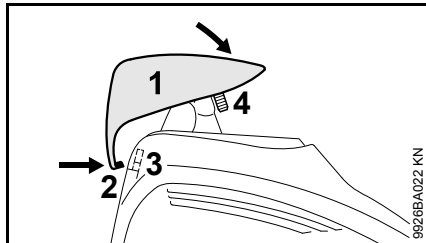
- Use resistor type spark plugs with a properly tightened adapter nut.

### Installing the spark plug

- Screw in spark plug
- Firmly press the spark plug connector onto the spark plug.



- Align the spark plug connector so that the ignition cable points to the upper left corner (arrow).



- Place the cap (1) on the hood from behind and at a slight angle, pressing the nose (2) into the opening (3) of the hood.
- On the front, swivel the cap onto the hood, screw in the screw (4) and tighten.

## Engine Running Behavior

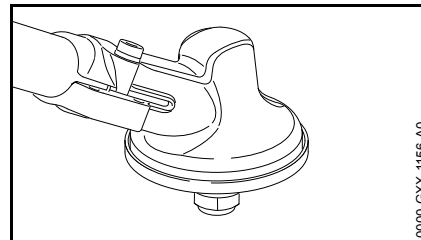
If engine running behavior is still unsatisfactory after the air filter has been serviced and the carburetor and throttle cable have been adjusted correctly, the cause may also be in the muffler.

Have the muffler checked for contamination (coking) by a servicing dealer!

STIHL recommends that maintenance and repair work be carried out only by authorized STIHL dealers.

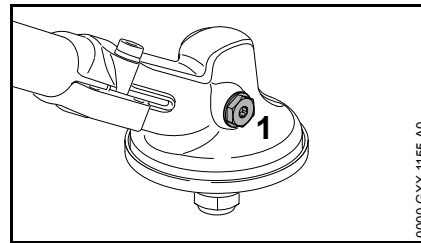
## Lubricating the Gearbox

### Gearbox without Screw Plug

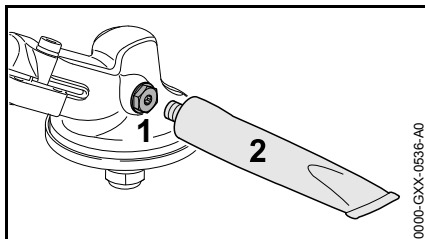


- If the gearbox has no screw plug: gearbox is maintenance-free and requires no re-lubrication.

### Gearbox with Screw Plug



- If the gearbox has a screw plug (1): Check grease level after every 25 hours of operation and re-lubricate if necessary.



- Remove the screw plug (1).
- If no grease can be seen on the inside of the screw plug (1): Screw the tube (2) of STIHL gear lubricant (special accessory) into the filler hole.
- Squeeze no more than 5 g (1/5 oz) grease into the gearbox.

#### NOTICE

Do not completely fill the gearbox with grease.

- Unscrew the tube (2).
- Insert the screw plug (1) and tighten it down firmly.

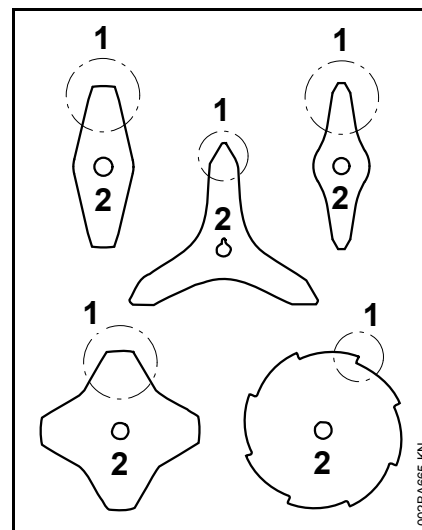
## Storing the Machine

If the machine is to remain out of use for approx. 3 months or more

- Drain and clean the fuel tank in a well ventilated place
- Dispose of fuel in accordance with the regulations and having regard for the environment
- Run the engine until the carburetor is dry. This helps to prevent the carburetor diaphragms sticking together.
- Remove, clean and inspect the cutting attachment. Treat metal cutting attachments with protective oil.
- Thoroughly clean the machine
- Store the machine in a dry and safe place, out of the reach of children and other unauthorized users

## Sharpening Metal Cutting Blades

- Use a sharpening file (special accessory) to sharpen dull cutting attachments. In case of more serious wear or nicks: Resharpener with a grinder or have the work done by a dealer – STIHL recommends a STIHL servicing dealer.
- Sharpen frequently, take away as little metal as possible – two or three strokes of the file are usually enough.



- Resharpener the teeth (1) uniformly – do not alter the contour of the parent blade (2) in any way.

See cutting attachment packaging for additional sharpening instructions. Keep the packaging for future reference.

## Balancing

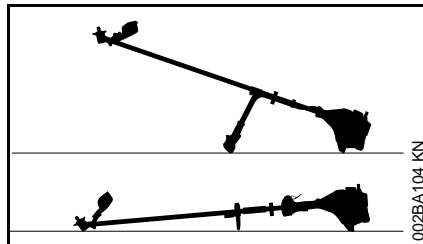
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- After resharpening about 5 times, check the cutting attachment for out-of-balance on a STIHL balancer (special accessory) or have it checked by a dealer and re-balanced as necessary – STIHL recommends a STIHL servicing dealer.

## Maintaining the Mowing Head

### Placing power tool on the ground

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- Shut off the engine.
- Lay your power tool on its back so that the cutting attachment mounting face is pointing up.

### Replacing Nylon Line

---

Always check the mowing head for signs of wear before replacing the nylon line.

#### **WARNING**

If there are signs of serious wear, replace the complete mowing head.

The nylon mowing line is referred to as "nylon line" or "line" in the following.

The mowing head is supplied with illustrated instructions for replacing the nylon line. Keep the instructions for the mowing head in a safe place.

- If necessary, remove the mowing head.

## Adjusting Nylon Line

---

### STIHL SuperCut

Fresh line is advanced automatically if the remaining line is **at least 6 cm (2 1/2 in)** long. The blade on the deflector trims overlong lines to the correct length.

### STIHL AutoCut

- With the engine running, hold the rotating mowing head above the grass surface.
- Tap it on the ground once – fresh line is advanced and the blade on the deflector trims it to the right length.

Fresh line is advanced every time the mowing head is tapped on the ground. For this reason observe the mowing head's cutting performance during operation. If the mowing head is tapped on the ground too often, the line limiting blade will unnecessarily cut off unused lengths of nylon line.

Line feed operates only if both lines are still at least **2.5 cm (1 in)** long.

### STIHL TrimCut

#### **WARNING**

**To reduce the risk of injury**, always shut off the engine before adjusting the nylon line by hand.

- Pull the spool up – rotate it about 1/6 turn counterclockwise until it engages – and allow it to spring back.
- Pull ends of the lines outward.



Repeat the above procedure as necessary until both lines reach the limiter blade on the deflector.

Rotating the spool from one stop to the next advances about **4 cm (1 1/2 in)** of fresh line.

### Replacing Nylon Line

#### STIHL PolyCut

Precut lengths of nylon line can be fitted to the PolyCut in place of the cutting blades.

#### STIHL DuroCut, STIHL PolyCut



#### **WARNING**

**To reduce the risk of injury**, always shut off the engine before refilling the mowing head.

- Fit precut lengths of nylon line in the mowing head as described in the instructions supplied.

### Replacing Cutting Blades

#### STIHL PolyCut

Always check the mowing head for signs of wear before installing new cutting blades.



#### **WARNING**

If there are signs of serious wear, replace the complete mowing head.

The thermoplastic cutting blades are referred to as "blades" in the following.

The mowing head is supplied with illustrated instructions for replacing the blades. Keep the instructions for the mowing head in a safe place.



#### **WARNING**

**To reduce the risk of injury**, always shut off the engine before installing the blades.

- Remove the mowing head.
- Replace blades as shown in the illustrated instructions.
- Mount the mowing head on the machine.

## Maintenance and Care

The following intervals apply for normal operating conditions. The specified intervals must be shortened accordingly when working for longer than normal or under difficult cutting conditions (extensive dust, etc.).		Before starting work	At the end of work and/or daily	Whenever tank is refilled	Weekly	Monthly	Annually	If faulty	If damaged	As required
Complete machine	Visual inspection (safe condition, leaks)	X		X						
	Clean		X							
	Replace any damaged parts	X							X	
Control handle	Function test	X		X						
Air filter, paper filter	Visual inspection							X		X
	Replace <sup>1)</sup>								X	
Air filter, plastic fabric filter	Visual inspection					X		X		
	Clean									X
	replace								X	X
Fuel tank	Clean					X		X		X
Manual fuel pump (if present)	check	X								
	Repair <sup>2)</sup>								X	
Fuel pickup body in fuel tank	Check <sup>2)</sup>							X		
	Replace <sup>2)</sup>						X		X	X
Carburetor	Check idle adjustment, cutting attachment must not turn	X		X						
	Adjust idle speed									X
Spark plug	Set electrode gap							X		
	Replace after every 100 hours of operation									
Intake port for cooling air	Visual inspection		X							
	Clean									X
Cylinder fins	Clean <sup>2)</sup>						X			
All accessible screws, nuts and bolts (not adjusting screws)	Tighten <sup>3)</sup>									X

The following intervals apply for normal operating conditions. The specified intervals must be shortened accordingly when working for longer than normal or under difficult cutting conditions (extensive dust, etc.).		Before starting work	At the end of work and/or daily	Whenever tank is refilled	Weekly	Monthly	Annually	If faulty	If damaged	As required
Anti-vibration elements	Visual inspection <sup>4)</sup>	X						X		X
	Replace <sup>2)</sup>								X	
Cutting attachment	Visual inspection	X		X						
	replace								X	
	Check for secure fit	X		X						
Metal cutting attachment	sharpen	X								X
Gearbox lubrication (with screw plug)	check				X			X		X
	top up									X
Safety information label	replace								X	

1) Only if there is a noticeable loss of engine power

2) STIHL recommends that this work be done by a STIHL servicing dealer

3) Tighten the screws for the muffler after a running time of 10 to 20 hours after commissioning

4) see chapter "Inspection and Maintenance by Dealer", section "Antivibration Elements"

## 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 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.

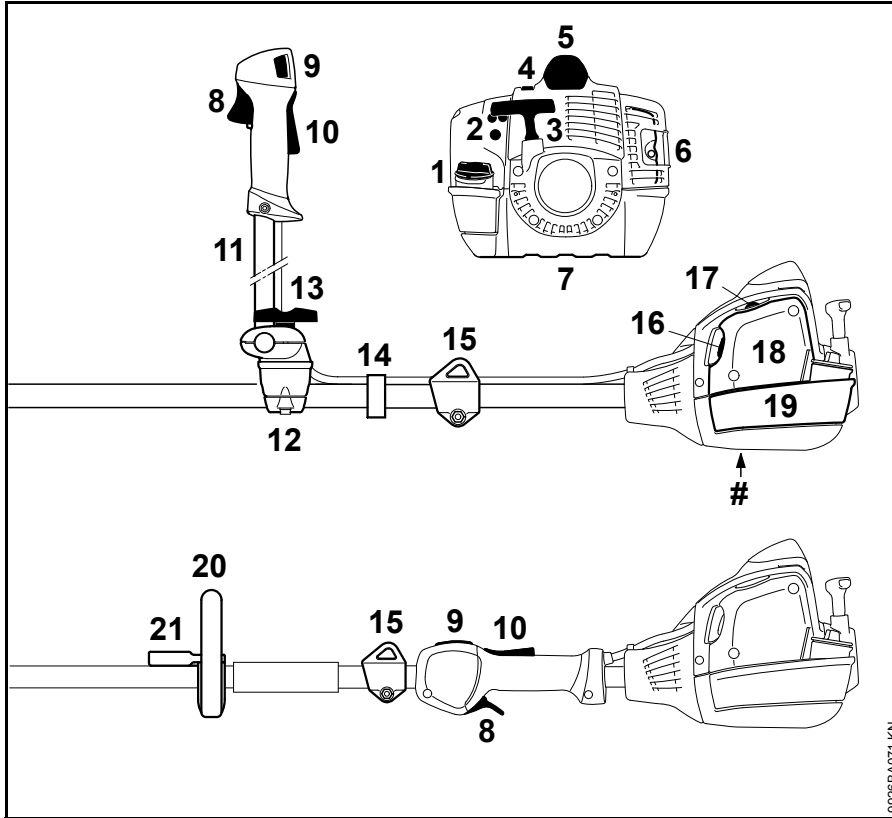
### Parts Subject to Wear and Tear

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:

- Cutting attachments (all types)
- Mounting hardware for cutting attachments (rider plate, nut, etc.)
- Deflectors for cutting attachments
- Clutch
- Filters (air, fuel)
- Rewind starter

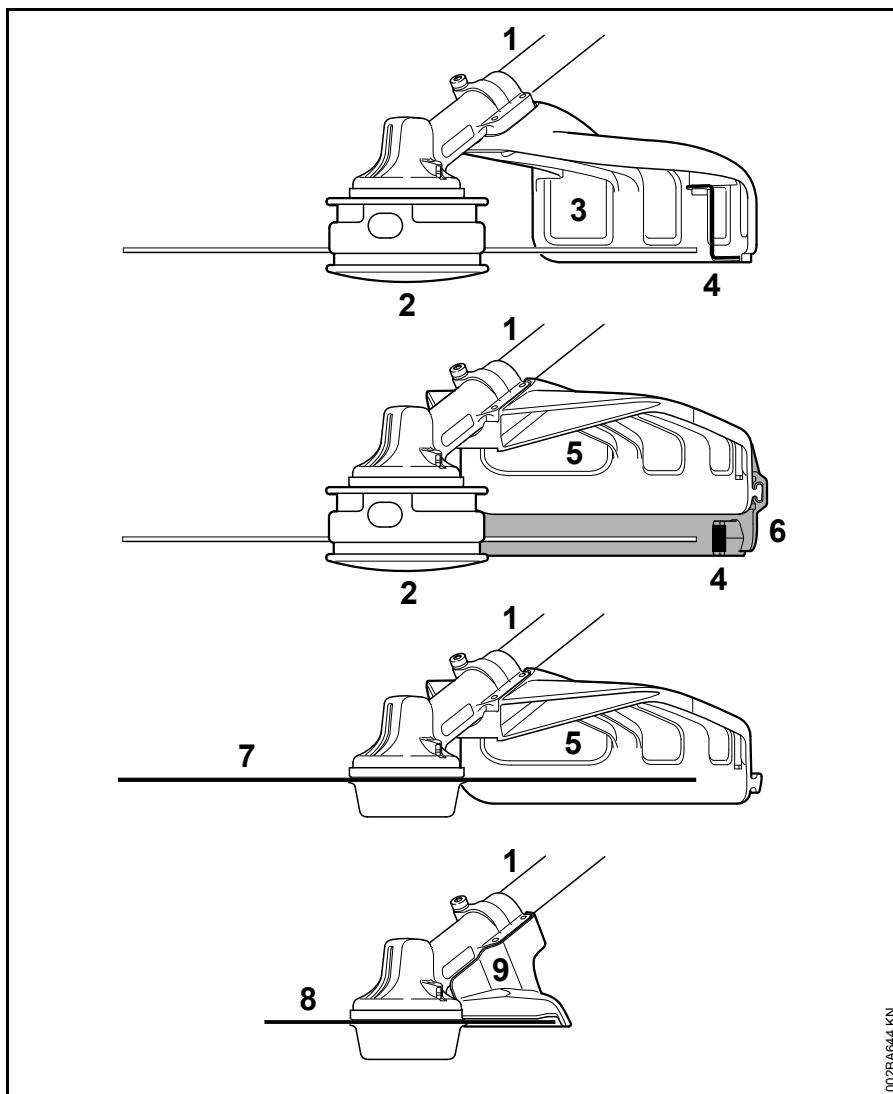
- Spark plug
- Antivibration elements

## Main Parts



- 1 Tank cap
- 2 Carburetor adjusting screw
- 3 Starter grip
- 4 Shutter (winter operation)
- 5 Spark plug boot with cap
- 6 Muffler
- 7 Guard plate
- 8 Throttle trigger
- 9 Stop switch
- 10 Throttle trigger lockout
- 11 Bike handle (handlebar)
- 12 Handle support
- 13 Wing screw
- 14 Throttle cable retainer
- 15 Carrying ring
- 16 Choke lever
- 17 Manual fuel pump
- 18 Air filter cover
- 19 Fuel tank
- 20 Loop handle
- 21 Barrier bar
- # Serial number

9926BA071 KN



- 1 Drive tube
- 2 Mowing head
- 3 Deflector for mowing heads only
- 4 Line limiting blade
- 5 Deflector for all mowing attachments
- 6 Skirt for mowing heads
- 7 Metal mowing attachment
- 8 Circular saw blade
- 9 Limit stop for circular saw blades only

002BA644 KN

## Specifications

### Engine

Single cylinder two-stroke engine

#### FS 240, FS 240 C

Version with bike handle and ErgoStart

Displacement:	37.7 cc
Bore:	40 mm
Stroke:	30 mm
Engine power to ISO 8893:	1.7 kW (2.3 bhp) at 8,500 rpm
Idle speed:	2,800 rpm
Cut-off speed (rated):	12,500 rpm

Max. output shaft speed (cutting attachment):	9,360 rpm
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#### FS 240 R, FS 240 RC

Version with loop handle and ErgoStart

Displacement:	37.7 cc
Bore:	40 mm
Stroke:	30 mm
Engine power to ISO 8893:	1.7 kW (2.3 bhp) at 8,500 rpm
Idle speed:	2,800 rpm
Cut-off speed (rated):	10,500 rpm

Max. output shaft speed (cutting attachment):	7,930 rpm
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#### FS 260 R, FS 260 RC

Version with loop handle and ErgoStart

Displacement:	41.6 cc
Bore:	42 mm

Stroke:	30 mm
Engine power to ISO 8893:	2.0 kW (2.7 bhp) at 9,000 rpm
Idle speed:	2,800 rpm
Cut-off speed (rated):	10,500 rpm
Max. output shaft speed (cutting attachment):	7,930 rpm

### Ignition System

Electronic magneto ignition

Spark plug (resistor type):	NGK CMR6H
Electrode gap:	0.5 mm

### Fuel System

All position diaphragm carburetor with integral fuel pump

Fuel tank capacity:	750 cc (0.75 l)
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### Weight

Dry, without cutting attachment and deflector

FS 240:	7.0 kg
FS 240 C-E:	7.2 kg
FS 240 R:	6.6 kg
FS 240 RC-E:	6.9 kg
FS 260 R:	6.6 kg
FS 260 RC-E:	6.9 kg

### Overall length

without cutting attachment

FS 240:	1805 mm
FS 240 C-E:	1805 mm
FS 240 R:	1865 mm
FS 240 RC-E:	1865 mm
FS 260 R:	1865 mm
FS 260 RC-E:	1865 mm

### Features

C	Convenience features
E	ErgoStart
R	Loop handle

### Noise and Vibration Data

For further details on compliance with Vibration Directive 2002/44/EC see [www.stihl.com/vib](http://www.stihl.com/vib).

### Sound pressure level $L_p$ to ISO 22868

with mowing head

FS 240:	100 dB(A)
FS 240 C:	99 dB(A)
FS 240 R:	99 dB(A)
FS 240 RC:	97 dB(A)
FS 260 R:	99 dB(A)
FS 260 RC:	98 dB(A)

with metal mowing attachment

FS 240:	98 dB(A)
FS 240 C:	98 dB(A)
FS 240 R:	99 dB(A)

FS 240 RC:	98 dB(A)
FS 260 R:	99 dB(A)
FS 260 RC:	97 dB(A)

### Sound power level $L_w$ to ISO 22868

with mowing head

FS 240:	111 dB(A)
FS 240 R:	110 dB(A)
FS 260 R:	111 dB(A)

with metal mowing attachment

FS 240:	109 dB(A)
FS 240 R:	110 dB(A)
FS 260 R:	110 dB(A)

### Vibration measurement $a_{hv,eq}$ to ISO 22867

with mowing head

	Handle, left	Handle, right
FS 240:	5.2 m/s <sup>2</sup>	4.9 m/s <sup>2</sup>
FS 240 C:	5.2 m/s <sup>2</sup>	4.9 m/s <sup>2</sup>
FS 240 R:	5.3 m/s <sup>2</sup>	6.5 m/s <sup>2</sup>
FS 240 RC:	5.3 m/s <sup>2</sup>	6.5 m/s <sup>2</sup>
FS 260 R:	6.5 m/s <sup>2</sup>	7.0 m/s <sup>2</sup>
FS 260 RC:	6.5 m/s <sup>2</sup>	7.0 m/s <sup>2</sup>

with metal mowing attachment

	Handle, left	Handle, right
FS 240:	4.6 m/s <sup>2</sup>	4.0 m/s <sup>2</sup>
FS 240 C:	4.6 m/s <sup>2</sup>	4.0 m/s <sup>2</sup>
FS 240 R:	5.2 m/s <sup>2</sup>	7.2 m/s <sup>2</sup>
FS 240 RC:	5.2 m/s <sup>2</sup>	7.2 m/s <sup>2</sup>
FS 260 R:	5.9 m/s <sup>2</sup>	7.2 m/s <sup>2</sup>
FS 260 RC:	5.9 m/s <sup>2</sup>	7.2 m/s <sup>2</sup>

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/s<sup>2</sup> for the vibration level.

### REACH

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

For information on compliance with the REACH regulation (EC) No. 1907/2006 see [www.stihl.com/reach](http://www.stihl.com/reach).

### Exhaust Emissions

The CO<sub>2</sub> value measured in the EU type approval procedure is specified at [www.stihl.com/co2](http://www.stihl.com/co2).

The measured CO<sub>2</sub> 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 instruction manual. The type approval expires if the engine is modified in any way.


## 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.

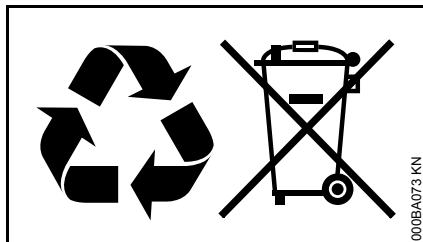
STIHL recommends the use of original STIHL replacement parts.

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).



## Disposal

Observe all country-specific waste disposal rules and regulations.



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

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

## EC Declaration of Conformity

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

Germany

declare under our sole responsibility that

Designation: Brushcutter  
Make: STIHL  
Series: FS 240  
FS 240 C  
FS 240 C-E  
FS 240 R  
FS 240 RC  
FS 240 RC-E  
FS 260 R  
FS 260 RC  
FS 260 RC-E

Serial identification  
number: 4147

Displacement  
all FS 240 37.7cm<sup>3</sup>  
all FS 240 R 37.7cm<sup>3</sup>  
FS 260 R 41.6cm<sup>3</sup>

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 11806-1, 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 10884.

### Measured sound power level

FS 240:	111 dB(A)
FS 240 C:	111 dB(A)
FS 240 R:	110 dB(A)
FS 240 RC:	109 dB(A)
FS 260 R:	111 dB(A)
FS 260 RC:	110 dB(A)

### Guaranteed sound power level

FS 240:	113 dB(A)
FS 240 C:	113 dB(A)
FS 240 R:	112 dB(A)
FS 240 RC:	111 dB(A)
FS 260 R:	113 dB(A)
FS 260 RC:	112 dB(A)

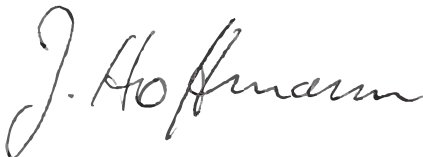
Technical documents deposited at:

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



## UKCA Declaration of Conformity

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

Germany

declare under our sole responsibility that

Designation:	Brushcutter
Make:	STIHL
Series:	FS 240 FS 240 C FS 240 C-E FS 240 R FS 240 RC FS 240 RC-E FS 260 R FS 260 RC FS 260 RC-E

Serial identification  
number: 4147

Displacement	
all FS 240	37.7cm <sup>3</sup>
all FS 240 R	37.7cm <sup>3</sup>
FS 260 R	41.6cm <sup>3</sup>

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 11806-1, 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 10884 standard.

### Measured sound power level

FS 240:	111 dB(A)
FS 240 C:	111 dB(A)
FS 240 R:	110 dB(A)
FS 240 RC:	109 dB(A)
FS 260 R:	111 dB(A)
FS 260 RC:	110 dB(A)

### Guaranteed sound power level

FS 240:	113 dB(A)
FS 240 C:	113 dB(A)
FS 240 R:	112 dB(A)
FS 240 RC:	111 dB(A)
FS 260 R:	113 dB(A)
FS 260 RC:	112 dB(A)

Technical documents deposited at:

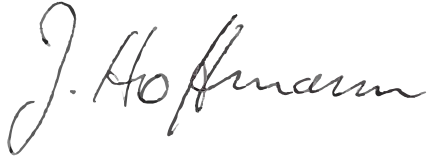
ANDREAS STIHL AG & Co. KG

The year of manufacture and serial  
number are indicated on the product.

Done at Waiblingen, 15.07.2021

ANDREAS STIHL AG & Co. KG

pp

A handwritten signature in black ink, reading "J. Hoffmann". The signature is written in a cursive style with a large initial "J" and a long, sweeping underline.

Dr. Jürgen Hoffmann

Director Product Certification &  
Regulatory Affairs

The UKCA logo, consisting of the letters "UK" stacked above "CA" in a bold, black, sans-serif font.

0458-742-0121-F

englisch



[www.stihl.com](http://www.stihl.com)



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