



2 - 19 Instruction Manual





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1 Guide to Using this Manual

1.1 Pictograms

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

1.2 Symbols in text



WARNING

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

NOTICE

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

1.3 Engineering improvements

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

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

Safety Precautions and Working Techniques



Special safety precautions must be observed when working with this machine because of the very high speed of its cutting attachment and the fact that it is powered by electricity.



Before commissioning, it is important to read and understand the User Manual and to keep it in a safe place for future reference. Failure to observe the User Manual may lead to serious or even fatal injury.

Observe the national safety regulations issued, e.g. by the employers' liability insurance association, social security institutions, occupational safety and health authorities and other organizations.

If you have not used this machine before: Have your dealer or other experienced user show you how to handle your machine safely or attend a specialist course.

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

Children, animals and onlookers must not be allowed near the machine.

When the machine is not in use, shut it off so that it does not endanger others. Secure it against unauthorized use and disconnect the mains plug.

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

Do not pass on or lend the machine to persons who are not familiar with this model and its handling – always include the User Manual.

Persons who are not able to operate the power tool safely due to limited physical, sensory or mental ability may work with it only under supervision or after being instructed appropriately by a responsible person.

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

Before each use, check that the unit is in proper condition. Pay special attention to the connecting cable, mains plug and safety devices.

2

Do not use the connecting cable to pull or transport the unit.

Disconnect plug from wall outlet before performing any work on the machine, e.g. cleaning, maintenance, replacing parts.

The deflector on this power tool cannot protect the operator from all objects ejected by the cutting attachment (stones, glass, wire, etc.). 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.

Do not spray the power tool with water.

2.1 Physical fitness

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

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

Do not operate the power tool if you have consumed alcohol or taken medication which may impair responsiveness, or taken drugs.

2.2 Accessories and Spare Parts

Only use cutting attachments and accessories that are explicitly approved for this power tool by STIHL or are technically identical. If you have any questions about this, consult your dealer. Use only high-quality parts and accessories. Otherwise, there is a risk of accidents and damage to the unit.

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 unauthorized attachments.

2.3 Applications

Depending on the cutting attachment fitted, use your power tool only for cutting grass, overgrowth and similar materials.

Do not use the power tool for any other purpose because of the increased risk of accidents and damage to the power tool itself. The product must not be modified in any way - this may also lead to accidents or damage to the unit.

2.4 Clothing and Equipment

Wear proper protective clothing and equipment.



Clothing must be sturdy but allow complete freedom of movement. Wear close-fitting clothing – a boilersuit, not a loose work 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 secure long hair above your shoulders.



Wear sturdy shoes with non-slip soles.



WARNING



To reduce the risk of eye injuries, wear close-fitting safety glasses in accordance with European Standard EN 166. Make sure the safety glasses are a 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 sturdy protective gloves made of a resistant material (e.g. leather).

STIHL offers a comprehensive range of personal protective equipment.

2.5 Transporting the Unit

Always switch off the machine and unplug it from the mains plug.

Carry the machine hanging from the shoulder strap or properly balanced by the shaft or loop handle.

Transporting by vehicle: Properly secure the machine to prevent tipping over and damage.

2.6 Before Starting Work

Check the unit

Check that your machine is in safe operating condition – refer to appropriate sections in the User Manual:

English

- The starting lockout lever and trigger switch must move freely – the switch must return to the idle position when it is released.
- Use only an approved combination of cutting attachment, deflector, handle and carrying strap. All parts must be assembled properly and securely. To reduce the **risk of injury**, never use metal cutting attachments!
- Check that the cutting attachment is properly and securely mounted and in good condition.
- Check safety devices (e.g., deflector for cutting attachments) for damage and/or wear.
 Always replace damaged parts. Never operate the unit with a damaged deflector
- Keep the handles dry, clean and free from dirt, for safe control of the power tool
- Adjust handle to suit your height and reach.

To reduce the risk of accidents and personal injury, do not operate the unit if it is not in proper condition!

Only operate the unit if all of its components are undamaged and securely mounted.

Never attempt to modify the controls or safety devices.

Before switching on your power tool, make sure the cutting attachment is not touching the ground or any other object.



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



Note that the cutting attachment continues to run for a short period after the power tool is switched off – fly-wheel effect.

Electrical connection.

Reduce the risk of electric shock:

- Voltage and frequency of the machine (see rating plate) and the voltage and frequency of your power supply must be the same.
- Examine the connecting cord, power plug and extension cord for damage. Damaged cords, couplings and plugs or connecting cords that do not comply with the regulations must not be used
- Always connect the engine analyzer to a properly installed wall outlet.
- Check that the insulation of the connection cable, extension cord, plug and coupling is in good condition.
- Never touch the power plug, power cord and extension cord, and electrical plug connections with wet hands.

- 2 Safety Precautions and Working Techniques
- Any extension cords used must comply with the specifications for the particular application

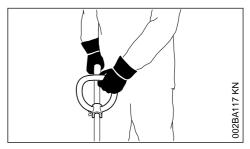
Position the connection cable and extension cord correctly:

- Check minimum cross section of wires (wire gauge) – see "Connecting to Power Supply".
- To reduce the risk of stumbling, position and mark the connecting cord so that it cannot be damaged or endanger others.
- Using unsuitable extension cords can be dangerous. Only use extension cords that are approved for outdoor use, are appropriately labeled and have a sufficient cable cross-section
- The plug and coupling of the extension cord must be water-proof and must never be immersed in water.
- Do not allow cord to rub on edges or pointed or sharp objects.
- don't trap or squeeze the cord in or under doors or windows
- If cords are twisted unplug the power tool and straighten them out
- Never touch the rotating cutting attachment
- Always unwind the extension cord completely from the cable reel to reduce the risk of fire from overheating.

2.7 Holding and Guiding the Tool

Always **hold the tool firmly with both hands** on the handles. Make sure you always have a firm and secure footing.

Always hold the machine on the right-hand side of your body.



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

2.8 While Working



If the power cord is damaged, immediately disconnect the plug from the wall outlet to avoid the **risk of electric shock**.

Avoid damage to the power supply cord. Do not drive over it, pinch or tug it.

Never jerk the connecting cord to disconnect it from the wall outlet. To unplug, grasp the plug, not the cord.

The power cord and power plug must never be touched with wet hands.

Never spray water on the unit - risk of short circuit!



The drive motor is not waterproof. To reduce the risk of a short circuit or **electrocution**, never work with the power tool in the rain or in wet or very damp locations.

Do not leave the unit outdoors in the rain.

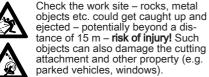
In case of imminent danger or in an emergency, switch off the motor immediately - release the trigger switch and starting lockout.

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



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.





Never work without protection suitable for the respective machine and cutting tool - risk of injury from ejected objects!

Do not cut wet grass.

Take care in slippery conditions on slopes and uneven ground.

Keep the connecting cord behind the power tool at all times - do not walk backwards - risk of stumbling.

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.

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

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

Check the cutting tool regularly at frequent intervals, and immediately if you notice a change in its behavior:

- Switch off the tool, hold it firmly and press the cutting attachment into the ground to bring it to a standstill, and disconnect the plug from the power supply.
- Check condition and tightness of connections, look out for fine cracks
- Immediately replace defective cutting tools, also 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.

Always switch off the tool and unplug it from the power supply before replacing the cutting attachment. Risk of injury from the motor starting unintentionally!

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!

If a rotating cutting attachment touches a rock or another hard object, sparks may be generated

which may possibly ignite combustible materials. Dried-out plants and undergrowth are combustible, especially 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.

Only use the deflector with properly mounted blade that ensures the mowing line is restricted to the permissible length.

To reduce the risk of injury, avoid contact with the blade.

To reduce the risk of injury, always switch off the tool and unplug it from the power supply before manually adjusting the mowing line.

Misuse with mowing lines that are too long reduces the working speed of the engine. This results in overheating and damage to the motor.

To reduce the risk of injury, never use wire in place of the nylon cutting line.

If the unit is subjected to unusual stress for which it was not designed (e.g., heavy impact or a fall), always check that it is in safe operating condition before continuing work – see also "Before Starting Work". Make sure the safety devices are working properly. Do not continue operating your machine if it is damaged. In case of doubt, contact a dealer.

Before leaving the machine unattended: Turn it off and disconnect the mains plug.

2.9 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.

2.10 Maintenance and Repairs

Always switch off the machine and disconnect the plug from the power supply before carrying out any maintenance work to **reduce the risk of injury** from the motor starting unintentionally.

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

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

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

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

Never attempt to modify your power tool in any way since this will increase the risk of personal injury.

Regularly check that the insulation of the power cord and plug is in good condition and shows no sign of ageing (brittleness).

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

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

Do not spray the machine with water.

Check tightness of mounting screws on safety devices and the cutting attachment and retighten if necessary.

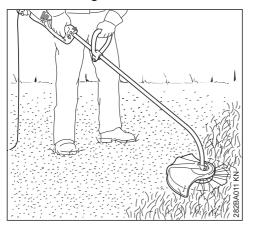
Clean cooling air inlets in motor housing as necessary.

Store the machine is a safe and dry place.

3 Using the Unit English

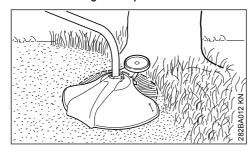
3 Using the Unit

3.1 Mowing



- Hold your trimmer with both hands right hand on the control handle – left hand on the loop handle.
- Stand upright hold the unit in a relaxed position and always on right side of your body.
- Swing the trimmer steadily to the left and right like a scythe, while maintaining the required cutting height.
- ► Avoid contact with fences, walls, rocks, etc. since it will result in a higher rate of wear.

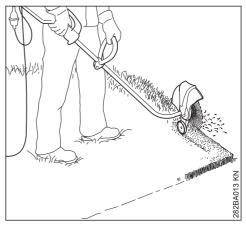
3.1.1 Mowing with depth wheel



A depth wheel can be quickly fitted to the trimmer (see "Mounting Depth Wheel").

- It limits the cutting range of the mowing line
- reduces the risk of the rotating mowing line causing damage (e.g. tree bark)

3.2 Edging



The unit can be quickly converted to a power edger (see "Converting Unit to Power Edger").

- ► Use the unit as shown
- Guide the mowing line along the edge of the lawn – use the depth wheel (see "Mounting Depth Wheel") or hold the unit at the right height.

3.3 Disposal

Do not throw cuttings in the garbage can – they can be composted.

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

4.1 Approved Combinations

Select correct combination from the table according to the cutting attachment you intend to use.

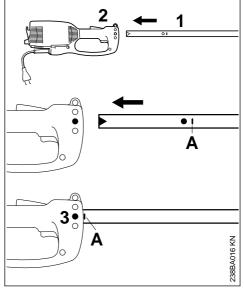


For safety reasons no other combinations are permitted – **risk of accidents.**

Only mowing heads (1) may be used on trimmers with a curved drive tube and loop handle.

- 4.2 Cutting Attachments
- 4.2.1 Mowing heads
- 1 STIHL AutoCut C 6-2
- 4.3 Deflector
- 2 Deflector with blade, for mowing heads
- 4.4 Handle
- 3 Loop handle
- 4.5 Harness
- 4 Shoulder strap may be used

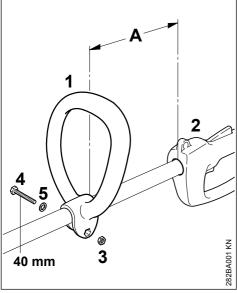
5 Mounting the Drive Tube



- ► Pull the protective cap off the drive tube.
- ► Push the drive tube (1) into the motor housing (2) as far as the mark (A), turning the drive tube back and forth at the same time.
- ► Tighten down the screw (3) in the housing firmly.

6 Mounting the Loop Handle

6.1 Mounting the Loop Handle

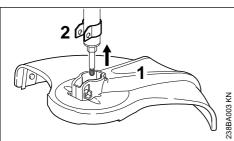


- ► Fit the loop handle (1) on the drive tube at a distance A of about 30 cm from the control handle (2).
- ► Insert the hex nut (3) in the loop handle (1).
- Squeeze the ends of the clamp together, fit the M6x40 screw (4) with washer (5) from the other side and tighten down firmly.

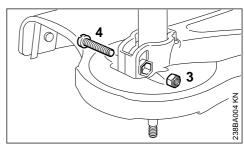
6.2 Adjusting Loop Handle to Most Comfortable Position

- ► Loosen the screw (4).
- Move the loop handle (1) along the drive tube to the required position – tighten down the screw (4) firmly.

7 Mounting the Deflector



Push the deflector (1) over the clamp (2) as far as stop.



- Fit the locknut (3) in the hex recess on the deflector.
- ► Make sure the holes line up.
- ► Insert the M6x30 screw (4) and tighten it down firmly.

8 Mounting the Cutting Attachment

8.1 Placing Power Tool on the Ground

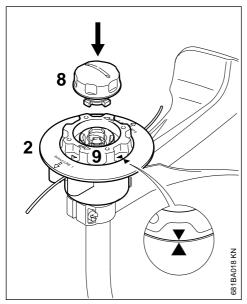


- ► Switch off the power tool.
- Lay your trimmer on its back with the loop handle facing down and the output shaft facing up.

8.2 Fitting Mowing Head without Screw Mounting

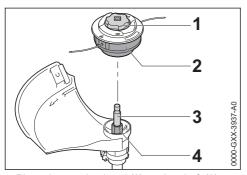
Keep the supplement sheet for the mowing head in a safe place!

8.2.1 STIHL AutoCut C 5-2



- ► Slip the mowing head (2) on to the shaft as AutoCut ☐ 5-2.
- ► Turn the spool (9) clockwise until the two arrow heads line up secure the spool in this position.
- Insert the cap (8) in the spool, press it down as far as stop and turn it clockwise at the same time.
- Turn the cap until you feel resistance and then tighten it down firmly by hand.

8.2.2 STIHL AutoCut C 6-2



- Place the mowing head (2) on the shaft (3) while inserting the internal hexagon (2) on the hexagon (4)
- ► Hold the mowing head (2) with your hand.
- Turn cap (1) clockwise and tighten it firmly by hand.

8.3 Removing the Mowing Head

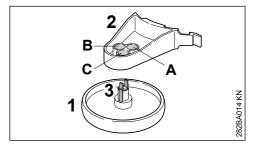
- ► Hold the spool housing steady
- Unscrew the cap counterclockwise.

9 Mounting Depth Wheel

The depth wheel is included in the scope of supply or is available as a special accessory.

It limits the working range of the mowing line.

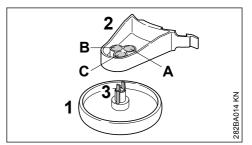
- It helps reduce the risk of the rotating mowing line causing damage (e.g. tree bark).
- It maintains the correct ground clearance when edging.



The depth wheel (1) can be locked in three different positions (A, B or C) on the support (2). This allows the reach of the mowing line to be varied.

- A Working range of mowing line extends beyond the outside diameter of the depth wheel, e.g. for lawn edging.
- B Working range of mowing line extends up to outside diameter of depth wheel.
- C Working range of mowing line does not reach as far as outside diameter of depth wheel, e.g. for mowing around trees.

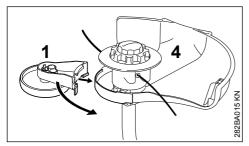
9.1 Mounting Depth Wheel on Support



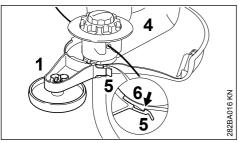
 Push the depth wheel (1) into the required position on the support (2) until the locking hooks (3) engage.

Squeeze the locking hooks (3) together to release the depth wheel (1) from the support (2).

9.2 Fitting Depth Wheel on Deflector



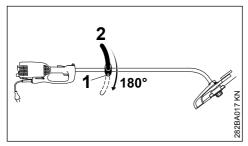
► Push the depth wheel (1) with support on to the deflector (4).



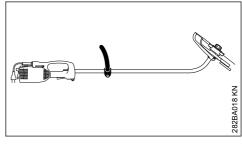
► Secure the depth wheel (1) on the deflector's (4) hook (6) with the locking tab (5).

The depth wheel (1) can be released from the hook (6) and pulled off the deflector (4) by raising the locking tab (5) slightly.

10 Converting Unit to Power Edger



- ► Loosen the screw (1).
- ► Rotate the loop handle (2) 180°.
- ► Tighten down the screw (1) firmly.



The trimmer can now be turned through 180° and used as a power edger (see "Applications").

11 Connecting to Power Supply

The voltage and frequency of the machine (see rating plate) must match the voltage and frequency of the power connection.

The minimum fuse protection of the power connection must comply with the specifications – see "Specifications".

The machine must be connected to the power supply via an earth-leakage circuit breaker to disconnect the power supply if the differential current to earth exceeds 30 mA.

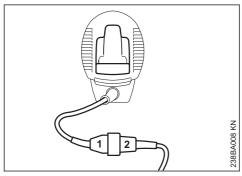
The power connection must correspond to IEC 60364 and relevant national regulations.

11.1 Extension cord

The design of the extension cord must at least fulfill the same features as the connecting cord on the machine. Observe the design marking (type designation) on the connecting cord.

The cores in the cord must have the following minimum cross-section depending on the mains voltage and cord length.

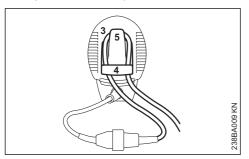
English 12 Fitting the Harness



► Insert the plug (1) into the extension cord coupling (2)

11.2 Strain relief clamp, strain relief flap (supports extension cord and reduces the likelihood of disconnection of extension cord receptacles and trimmer plug)

The strain relief (cable retainer) protects the connecting cable from damage.



- ► make a loop (3) in the extension cord
- ► Pass the loop (3) through the opening (4)
- ► Slip the loop (3) over the hook (5) and pull it tight
- Plug the extension cord into a properly installed outlet

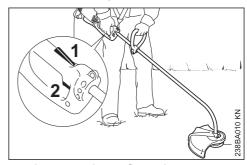
12 Fitting the Harness

A shoulder strap is available as a special accessory.

Wear the shoulder strap over your left shoulder and adjust its length so that the spring hook lies against your right hip.

The open side of the hook should face away from your body. Attach the spring hook to the carrying ring (see "Main Parts").

13 Switching On



- ► make sure you have a firm and secure stance
- Hold your trimmer with both hands right hand on the control handle – left hand on the loop handle.
- Stand upright hold the unit in a relaxed position and always on right side of your body.
- ► The cutting attachment must not touch any objects or the ground
- Press down the starting lockout lever (1) and hold it in that position.
- ► Squeeze the trigger switch (2).

14 Switching Off

 Release the trigger switch and starting lockout lever.



Note that the cutting attachment continues to run for a short period after you let go of the throttle trigger and starting lockout lever – **flywheel effect.**

During longer work breaks – disconnect the plug from the power supply.

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

Secure it against unauthorized use.

15 Overload Cutout

STIHL FSE 71 and FSE 81 electric trimmers are equipped with an overload cutout.

The overload cut out cuts off the power supply in case of mechanical or thermal overload.

If the overload cutout has cut off the power supply:

Wait about 3 minutes before switching on again.

Do not switch on the unit during this period because you will otherwise prolong the required cooling time.

Once the motor starts:

Run the unit for about 15 seconds off load. This helps cool the motor windings and considerably delays renewed tripping of the overload cutout.

16 Storing the Machine

If not used for periods of about 30 days or longer

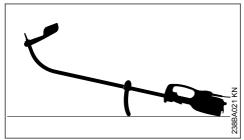
- Thoroughly clean the machine, especially the ventilation slots
- Take out the spool with mowing lines and engage the ends of the lines in the spool's notches. Clean and inspect the spool.

The resilience and service life of the mowing line can be increased by storing it in a container filled with water.

 Store the machine in a dry and secure location. Keep out of the reach of children and other unauthorized persons

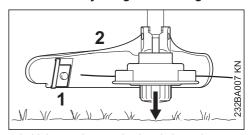
17 Maintaining the Mowing Head

17.1 Placing Power Tool on the Ground



- ► Switch off the power tool.
- Lay your trimmer on its back with the loop handle facing down and the output shaft facing up.

17.2 Re-Adjusting the Mowing Line



- hold the rotating mowing head above the ground – tap it on the ground once – about 3 cm fresh line is advanced.
- The blade (1) on the deflector (2) trims surplus mowing line to the correct length – avoid tapping the mowing head more than once at a time!

Line feed operates only if **both** lines still have a minimum length of **2.5 cm**.

If the line is shorter than 2.5 cm:



WARNING

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

- Lay your trimmer on its back, make sure it is secure
- Press down the cap on the spool as far as stop.
- ► Pull the ends of the lines out of the spool.

If the spool is empty, refill with mowing line

17.3 Replacing the Mowing Line

Always check the mowing head for wear before replacing the mowing line.



WARNING

If signs of heavy wear are visible, the mowing head must be completely replaced.

The mowing line is referred to as 'line' in the following.

An illustrated guide to replacing lines is supplied with the mowing head. So keep the instructions for the mowing head in a safe place.

► Remove the mowing head if necessary

18 Maintenance and Care

The following intervals apply to only. If your daily working time i are difficult (very dusty work are intervals accordingly.	normal operating conditions s longer or operating conditions a, etc.), shorten the specified	before starting work	after finishing work or daily	weekly	monthly	if problem	if damaged	if required
Complete machine	Visual inspection (condition)	Х						
	Clean		Х					
Power cord	Check	Х						
	Have replaced by dealer ¹⁾						X	
Switch, starting lockout	Check operation	Х						
	Have replaced by dealer ¹⁾					X	X	
Cooling inlets	Clean		Х					
All accessible screws and nuts	Retighten							X
Cutting attachment (mowing head)	Visual Inspection	Х						
	Replace						X	
	Check tightness	Х						
Safety labels	Replace						X	

19 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 instruction 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.

19.1 Maintenance Work

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

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

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

- Damage to the motor due to neglect or deficient maintenance (e.g. not cleaning cooling air inlets).
- Damage due to incorrect electrical connection (voltage, inadequately rated connecting cords).
- Corrosion and other consequential damage resulting from improper storage.

¹⁾ STIHL recommends a STIHL servicing dealer.

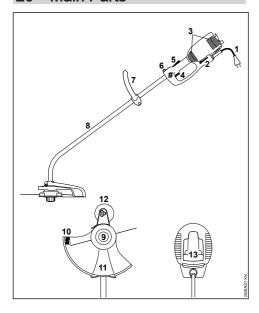
 Damage to the product resulting from the use of poor quality replacement parts.

19.2 Parts Subject to Wear and Tear

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

- Cutting attachment
- Deflector
- Carbon brushes

20 Main Parts



- 1 Power cord
- 2 Angle screwdriver
- 3 Cooling inlets
- 4 Switch
- 5 Starting lockout lever
- 6 Carrying ring
- 7 Loop handle
- 8 Drive tube
- 9 Mowing head

- 10 Line limiter blade
- 11 Deflector
- 12 Depth wheel (included as standard equipment or available as special accessory)

230 1/

- 13 Strain relief (cord retainer)
- # Serial number

21 Specifications

21.1 Engine

21.1.1 FSE 60

Nateu voitage.	230 V
Frequency:	50 Hz
Rated current:	2.3 A
Power:	540 W
Rated speed at mowing line	7400 rpm
diameter of 350 mm:	•
Protect with a fuse	min. 10 A
Protection class:	II. 🗇

21.1.2 FSE 71

Rated voltage:	230 V ¹⁾
Frequency:	50 Hz
Rated current:	2.3 A
Power:	540 W
Rated speed at mowing line	7400 rpm
diameter of 350 mm:	
Protect with a fuse	mi <u>n.</u> 10 A
Protection class:	II, 回

21.1.3 FSE 81

Rated voltage: Frequency: Rated current:	230 V 50 Hz 4.3 A
Power: Rated speed at mowing line	1000 W 7400 rpm
diameter of 350 mm: Protect with a fuse Protection class:	min. 10 A II, 💷

21.2 Length

FSE 60:	1530 mm
FSE 71:	1530 mm
FSE 81:	1530 mm

21.3 Weight

complete with cutting at	ttachment and deflector
FSE 60:	3.9 kg
FSE 60 ²⁾ :	4.5 kg
FSE 71:	4.0 kg
FSE 71 ²⁾ :	4.6 kg
FSE 81:	4.7 kg
FSE 81 ²⁾ :	5.3 kg

¹⁾ Version for Australia: 240 V

²⁾ Version with 10 meter power supply cord for UK

21.4 Noise and Vibration Data

Noise and vibration data are determined on the basis of the rated maximum speed.

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

www.stihl.com/vib

21.4.1 Sound pressure level L_p to EN 62841-4-4

83 dB(A)
82 dB(A)
83 dB(A) 82 dB(A) 83 dB(A)

21.4.2 Sound power level L_w to EN 62841-4-4

FSE 60:	94 dB(A)
FSE 71:	93 dB(A)
FSE 81:	93 dB(A) 93 dB(A)

21.4.3 Vibration level a_{hv} to EN 62841-4-4

	Handle, left	Handle, right
FSE 60:	3.9 m/s^2	3.6 m/s ²
FSE 71:	3.3 m/s^2	2.9 m/s^2
FSE 81:	2.9 m/s^2	2.2 m/s^2

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

21.5 REACH

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

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

www.stihl.com/reach

22 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

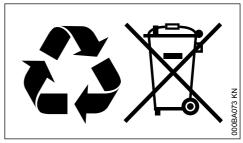
STIHL recommends the use of original STIHL replacement parts.

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

23 Disposal

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

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



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

24 EC Declaration of Conformity

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

Germany

declares under our sole responsibility that

Designation: Electric trimmer Make: STIHL Series: FSE 60 FSE 71 FSE 81

Serial identification number: 4809

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 55014-1, EN 55014-2, EN 62841-1, EN 62841-4-4, EN 61000-3-2, EN 61000-3-3

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

Notified body involved:

VDE Prüf- und Zertifizierungsinstitut Merianstrasse 28 63069 Offenbach

Measured sound power level

FSE 60:	94 db(A)
FSE 71:	93 db(A)
FSE 81:	93 db(A) 93 db(A)

Guaranteed sound power level

FSE 60:	96 db(A)
FSE 71:	96 db(A) 95 db(A)
FSE 81:	95 db(A)

Technical documents deposited at:

ANDREAS STIHL AG & Co. KG Produktzulassung

The year of construction, the country of manufacture and the machine number are shown on the machine.

Done at Waiblingen, 01.08.2022

ANDREAS STIHL AG & Co. KG

pp

Robert Olma, Vice President, Regulatory Affairs & Global Governmental Relations



25 General Power Tool Safety Warnings

25.1 Introduction

This chapter reproduces the pre-formulated, general safety precautions specified in the IEC 62841 standard for hand-held motor-operated electric tools.

STIHL is obliged to publish these texts.

The safety precautions and warnings on avoiding an electric shock given under "Electrical Safety" do not apply to STIHL cordless products.



WARNING

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

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

25.2 Work area safety

- a) Keep work area clean and well lit. Cluttered or dark areas invite accidents.
- b) Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

25.3 Electrical safety

- a) Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- d) Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- e) When operating a power tool outdoors, use an extension cord suitable for outdoor use.
 Use of a cord suitable for outdoor use reduces the risk of electric shock.

f) If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply. Use of an RCD reduces the risk of electric shock.

25.4 Personal safety

- a) Stay alert, watch what you are doing and use common sense when operating a power tool.
 Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
- b) Use personal protective equipment. Always wear eye protection. Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.
- c) Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.
- d) Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- e) Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- f) Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.
- g) If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dustrelated hazards.
- b) Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles. A careless action can cause severe injury within a fraction of a second

25.5 Power tool use and care

a) Do not force the power tool. Use the correct power tool for your application. The correct

- power tool will do the job better and safer at the rate for which it was designed.
- b) Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- c) Disconnect the plug from the power source and/or remove the battery pack, if detachable, from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- d) Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
- e) Maintain power tools and accessories.
 Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- f) Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- g) Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation
- Keep handles and grasping surfaces dry, clean and free from oil and grease. Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

25.6 Service

 a) Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

25.7 Grass Trimmer/Lawn Edge Trimmer Safety Warnings

 a) Do not use your machine in bad weather, especially during thunderstorms. This will reduce the risk of being struck by lightning.

- Thoroughly check the work area for wild animals. Wild animals may be injured by the machine when it is running.
- Thoroughly search the work area and remove all stones, sticks, wires, bones and other foreign objects. Ejected parts may cause injuries.
- Always check that the cutting tool and the cutting unit are not damaged before use.
 Damaged parts increase the risk of injury.
- e) Check the power cable and any extension cables for signs of damage or aging before use. If the power cable is damaged or worn during use, turn off the machine and do not touch the cable before you have disconnected the mains plug. A damaged power or extension cable may result in an electric shock, fire and/or serious injury.
- f) Always keep the protective covers in their proper place. Protective covers must always be ready for use and properly fastened. A protective cover that is loose, damaged or not functioning properly may result in injury.
- g) Keep air inlet openings free from debris. Blocked air inlets and debris may cause overheating or pose a fire hazard.
- Wear eye protection and ear muffs. Wearing suitable personal protective equipment will reduce the risk of injury.
- Always wear non-slip, protective shoes when operating the machine. Never work barefoot or with open sandals. This will reduce the risk of a foot injury due to contact with the rotating cutting element.
- j) When operating the machine, always wear clothing that covers your legs, such as pants. Contact with the rotating cutting element or lines may cause injuries.
- Keep bystanders away from the area where the machine is operated. Ejected parts may cause serious injuries.
- Do not operate the machine higher than waist level. This will avoid unintended contact with the cutting element and will enable better control of the machine in unexpected situations.
- m) Do not operate the machine in wet grass.
 Walk when you operate the machine, never run. You will thereby reduce the risk of slipping or falling, which may result in injury.
- n) Do not operate the machine on overly steep slopes. This will reduce the risk of losing

- control, slipping or falling, which may result in injury.
- When working on slopes, always make sure you have a firm footing; always work across the slope, never up or down and always be extremely careful when changing the direction of work. This will reduce the risk of losing control, slipping or falling, which may result in injury.
- p) Keep all power cables away from the cutting area. Power cables may be hidden in hedges or bushes and may accidentally be damaged or nicked by the cutting element.
- q) Keep all parts of your body away from the rotating cutting element or cutting lines. Never remove any material from the machine unless you have disconnected the machine from the power supply. The rotating cutting element or the cutting lines may result in serious injuries.
- r) When carrying the machine, always make sure that it is turned off and turned away from your body. Proper handling of the machine will reduce the likelihood of accidental contact with the rotating cutting element or cutting lines.
- s) Only use replacement cutting heads as well as plastic cutting lines and elements according to the manufacturer's specifications. Wrong spare parts may result in loss of control, breakage or injuries.
- t) Do not replace the plastic lines or blades with metal wires or blades. Use of the machine with cutting elements that are not recommended may result in injuries.

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