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

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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 decompression valve

Manual fuel pump

Operate manual fuel pump

Tube of grease

Intake air: Summer operation

Intake air: Winter operation

Handle heating

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

Some special safety precautions have to be observed when working with this power tool because of the very high speed of the cutting attachment.

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

Observe all applicable local safety regulations, standards and ordinances.

If you have not used this type of power tool before: Have your dealer or other experienced user show you how to operate your unit or attend a special course in its operation.

Minors should never be allowed to use a power tool.

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

When the power tool is not in use, shut it off so that it does not endanger others. Secure it against unauthorized use.

The user is responsible for avoiding injury to third parties or damage to their property.
Do not lend or rent your power tool without the instruction manual. Be sure than anyone using your power tool understands the information contained in this manual.

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

To operate the power tool you must be rested, in good physical condition and mental health. If you have any condition that might be aggravated by strenuous work, check with your doctor before operating a power tool.

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

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

Depending on the cutting attachment fitted, use your trimmer only for cutting grass, wild growth and similar materials. It must not be used for any other purpose because of the increased risk of accidents and damage to the machine. Never attempt to modify your power tool in any way since this may result in accidents or damage to the machine.

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 a servicing dealer. Use only high quality cutting attachments and accessories in order to avoid the risk of accidents and damage to the machine.

STIHL recommends the use of genuine STIHL cutting attachments and accessories. They are specifically designed to match the product and meet your performance requirements.

The deflector on this power tool cannot protect the operator from all objects thrown by the cutting attachment (stones, glass, wire, etc.). Such objects may ricochet and then hit the operator.

### Clothing and Equipment

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

Avoid clothing that could get caught on branches or brush or moving parts of the machine. Do not wear a scarf, necktie or jewelry. Tie up long hair so that it is above shoulder level.

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

*Avoid clothing that could get caught on branches or brush or moving parts of the machine. Do not wear a scarf, necktie or jewelry. Tie up long hair so that it is above shoulder level.*

*Wear sturdy shoes with non-slip soles.*

**WARNING**

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

Wear a face shield and make sure it is a good fit. A face shield alone does not provide adequate eye protection.

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

Wear robust work gloves made of durable material (e.g. leather).

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

**Transporting the Power Tool**

Always turn off the engine.

Carry the unit properly balanced by the drive tube or loop handle.
In vehicles: Properly secure your power tool to prevent turnover, fuel spillage and damage.

**Fueling**

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

Always shut off the engine before refueling.

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

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

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

**Before Starting**

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

- Check the fuel system for leaks, paying special attention to visible parts such as the tank cap, hose connections and the manual fuel pump (on machines so equipped). If there are any leaks or damage, do not start the engine – **risk of fire**. Have your machine repaired by a servicing dealer before using it again.

- Use only an approved combination of cutting attachment, deflector, handle and harness. All parts must be assembled properly and securely. To reduce the risk of injury, **never** use metal cutting attachments.

- The stop switch must move easily to 0.

- Check smooth action of choke knob, throttle trigger lockout and throttle trigger – the throttle trigger must return automatically to the idle position. The choke lever must spring back from the \( I \) and \( R \) 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 arcing that could ignite combustible fumes and **cause a fire**.

- Check cutting attachment for correct and secure assembly and good condition.

- Check protective devices (e.g. deflector for cutting attachment) for damage or wear. Always replace damaged parts. Never operate the unit with a damaged deflector.

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

- Keep the handles dry and clean – free from oil and dirt – for safe control of the power tool.

- Adjust the harness and handle(s) to suit your height and reach.

To reduce the risk of accidents, do not operate your power tool if it is damaged or not properly assembled.

If you use a shoulder strap or full harness: Practice removing and putting down the power tool as you would in an emergency. 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.

Your power tool is a one-person unit. To reduce the risk of injury from thrown objects, do not allow other persons within a radius of 15 meters of your own position – even when starting.
To reduce the risk of injury, avoid contact with the cutting attachment.

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

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

Check idle speed setting: The cutting attachment must not rotate when the engine is idling with the throttle trigger released.

To reduce the risk of fire, keep hot exhaust gases and hot muffler away from easily combustible materials (e.g. wood chips, bark, dry grass, fuel).

Holding and Controlling the Unit

Always hold the power tool firmly with both hands on the handles. Make sure you always have good balance and secure footing.

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

During Operation

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

The cutting attachment may catch and fling objects a great distance and cause injury - therefore, do not allow any other persons within a radius of 15 meters of your own position. To reduce the risk of damage to property, also maintain this distance from other objects (vehicles, windows). Even maintaining a distance of 15 meters or more cannot exclude the potential danger.

The correct engine idle speed is important to ensure that the cutting attachment stops rotating when you let go of the throttle trigger.

Check and correct the idle speed setting regularly. If the cutting attachment continues to rotate when the engine is idling, have the machine checked by your servicing dealer. STIHL recommends a STIHL servicing dealer.

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

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

Make sure you always have good balance and secure footing.

Always stand on the ground while working, never on a ladder, work platform or any other insecure support.

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

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

Work calmly and carefully – in daylight conditions and only when visibility is good. Stay alert so as not to endanger others.
To reduce the risk of serious or fatal injury from breathing toxic fumes, ensure proper ventilation when working in trenches, hollows or other confined locations.

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

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. Note that combustible fuel vapor may escape from the fuel system. The dusts, vapor and smoke produced during operation may be dangerous to health. If the work area is very dusty or smoky, wear a respirator.

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

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 the fuel system in particular for leaks and make sure the safety devices are working properly. Do not continue operating your power tool if it is damaged. In case of doubt, have the unit checked by your servicing 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.

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

Inspect the work area: Stones, pieces of metal or other solid objects may be thrown more than 15 meters and cause personal injury or damage the cutting attachment and property (e.g. parked vehicles, windows).

Special care must be taken when working in difficult, over-grown terrain. When cutting high scrub, under bushes and hedges: Keep cutting attachment at a minimum height of 15 cm to avoid harming small animals.

Always shut off the engine before leaving the unit unattended.

Check the cutting attachment at regular short intervals during operation or immediately if there is a noticeable change in cutting behavior:

– Turn off the engine. Hold the unit firmly and wait for the cutting attachment to come to a standstill.

– Check condition and tightness, look for cracks.

– Replace damaged cutting attachments immediately, even if they have only superficial cracks.

When using mowing heads

Use only the deflector with properly mounted line limiting blade to ensure the mowing lines are automatically trimmed to the approved length.
To reduce the risk of injury, always turn off the engine before adjusting the nylon line of manually adjustable mowing heads.

Using the unit with over-long nylon cutting lines reduces the engine's operating speed. The clutch then slips continuously and this causes overheating and damage to important components (e.g. clutch, polymer housing components) – and this can increase the risk of injury from the cutting attachment rotating while the engine is idling.

**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 genuine STIHL replacement parts. These parts are specifically designed to match your machine 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.

**Symbols on Deflectors**

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

Use deflector in combination with mowing heads only. Do not use metal cutting attachments.
Mowing Head with Nylon Lines

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

**WARNING**

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

STIHL PolyCut 6-3 Mowing Head with Polymer Blades

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

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

Check the wear limit marks!

Wear limit marks are integrated in the base of the PolyCut.

Do not continue using the PolyCut 6-3 if one of the circular holes (1; arrow) becomes visible or if the projecting rim (2; arrow) has worn away. Install a new mowing head.

**WARNING**

If the wear limit marks are ignored, there is a risk of the cutting tool shattering and flying parts injuring the operator or bystanders.

To reduce the risk of accidents from shattered blades, avoid contact with stones, metal and similar solid objects.

Check PolyCut blades for cracks at regular intervals. If a crack is found in one of the blades, always replace all the blades.
## Approved Combinations of Cutting Attachment, Deflector, Handle and Harness

The table below lists the approved combinations of cutting attachments, deflectors, handles, and harnesses for FS 40, FS 40 C, FS 50, and FS 50 C. Each row indicates a single combination.

<table>
<thead>
<tr>
<th>Cutting Attachment</th>
<th>Deflector</th>
<th>Handle</th>
<th>Harness</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
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<tr>
<td>2</td>
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<tr>
<td>8</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Approved Combinations

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

**WARNING**

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

### Cutting Attachments

- **Mowing heads**
  - 1. STIHL AutoCut C 5-2
  - 2. STIHL AutoCut 5-2
  - 3. STIHL AutoCut C 6-2
  - 4. STIHL DuroCut 5-2
  - 5. STIHL PolyCut 6-3
Your new power tool comes with the loop handle mounted on the drive tube, but it must be turned and lined up to suit your requirements.

**Adjusting the loop handle**

**Versions with screw (FS 40)**
- Use a screwdriver or the combination wrench to loosen the screw (1) on the handle.

**Versions with star knob (FS 50)**
- Loosen the star knob (2) on the handle.

**All versions**
- Turn the handle to the vertical position.

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

Recommended distance (A):
- about 15 cm
  - Slide the handle to the required position.
  - Tighten down the screw or star knob so that the handle cannot be rotated on the drive tube.

- Push the deflector (1) over the clamp (2) as far as stop.
- Insert the nut (3) in the hex recess in the deflector – make sure the holes line up.
- Insert the screw (4) with washer and tighten it down firmly.
Mounting the Cutting Attachment

Placing power tool on the ground

- Switch off the engine.
- Lay your trimmer on its back with the loop handle and shroud pointing down and the output shaft facing up.

Thrust Plate

The thrust plate (1) is shipped with the DuroCut 5-2 and PolyCut 6-3. It is only required for these mowing heads.

**STIHL AutoCut 5-2 mowing head, STIHL AutoCut C 5-2 mowing head**
- Pull the thrust plate (1), if fitted, off the shaft (2).

**STIHL PolyCut 5-2 mowing head, STIHL FixCut 6-3 mowing head**
- Slip the thrust plate (1) over the shaft (2) and engage the hex recess (3) on the external hexagon (4).

Blocking the Shaft

- To block the shaft, insert a suitable tool (5) through the holes (6) in the deflector and thrust plate – turn the thrust plate back and forth if necessary.

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

---

**Fitting Mowing Head without Screw Mounting**

Keep the instruction leaflet for the mowing head in a safe place.

**STIHL AutoCut 5-2**

- Fit the spring (1) in the mowing head (2).
- Wind the mowing line (3) on to the spool (4).
- Thread the nylon line through the sleeves and fit the spool in the head.

The individual steps are described in the instruction sheet supplied.

- Slip the mowing head (2) over the shaft (5) and engage hex recess (7) on the external hexagon (6).
- Fit the cap (8) on the mowing head – screw it clockwise on to the shaft as far as stop and tighten it down firmly.
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.

STIHL PolyCut 6-3

- Fit the thrust plate on the shaft.
- Insert the nut (10) in the mowing head.
- Screw the mowing head (11) clockwise on to the shaft (5) as far as stop.
- Block the shaft.
- Tighten down the mowing head firmly.

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

**NOTICE**
Remove the tool used to block the shaft.

STIHL AutoCut
- Hold the mowing head steady.
- Unscrew the cap counterclockwise.

STIHL PolyCut
- Block the shaft.
- Unscrew the mowing head counterclockwise.
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**

<table>
<thead>
<tr>
<th>Gasoline Liters</th>
<th>STIHL engine oil 50:1 Liters</th>
<th>(ml)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0.02</td>
<td>(20)</td>
</tr>
<tr>
<td>5</td>
<td>0.10</td>
<td>(100)</td>
</tr>
<tr>
<td>10</td>
<td>0.20</td>
<td>(200)</td>
</tr>
<tr>
<td>15</td>
<td>0.30</td>
<td>(300)</td>
</tr>
<tr>
<td>20</td>
<td>0.40</td>
<td>(400)</td>
</tr>
<tr>
<td>25</td>
<td>0.50</td>
<td>(500)</td>
</tr>
</tbody>
</table>

- 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

Preparations

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

Opening screw-type tank 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 (special accessory).

Closing screw-type tank cap

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

Starting / Stopping the Engine

Controls

Version with loop handle

1 Throttle trigger lockout
2 Throttle trigger
3 Stop switch with Run and 0 = Stop positions.

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. If the stop switch is moved to the 0 position, the ignition is switched off. 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 choke lever (5) and turn it to \( \text{\textacuten} \) at the same time.

Warm engine (warm start)

- Press in the choke lever (5) and turn it to \( \text{\textael} \) at the same time.

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

Cranking

- Place the unit on the ground: It must rest securely on the engine support and the deflector. Check that the cutting attachment is not touching the ground or any other obstacles.
- Make sure you have a safe and secure footing.
- Hold the unit firmly on the ground with your left hand and press down – do not touch the throttle trigger or lockout lever.

**NOTICE**

Do not stand or kneel on the drive tube.

- Hold the starter grip with your right hand.

Version without ErgoStart

- Pull the starter grip slowly until you feel it engage and then give it a brisk strong pull.

Version with ErgoStart

- 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 lever 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

- Move the stop switch in the direction of 0 – the engine stops – release the stop switch – it springs back to the run position.

Other Hints on Starting

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

Engine does not start in warm start position F

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

Fuel tank run until completely dry

- After refueling, press the manual fuel pump bulb at least five times – even if the bulb is filled with fuel.
- Set the choke lever to suit the engine temperature.
- Now start the engine.

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”.

FS 40, FS 40 C, FS 50, FS 50 C
**Cleaning the Air Filter**

If there is a noticeable loss of engine power

- Move the choke lever (1) to <.
- Turn the screw (2) in the filter cover (3) counterclockwise until the cover is loose.
- Ease the filter cover (3) over the choke lever and lift it away.
- Clean away loose dirt from around the filter.

- Reach into the recess (4) in the filter housing and take out the felt filter (5).
- Fit a new felt filter element (5). As a temporary measure you can knock it out on the palm of your hand or blow it out with compressed air. Do not wash.

**NOTICE**

Replace damaged parts.

- Fit the felt filter (5) in the filter housing, make sure it is properly seated – the arrow points to the recess.
- Move the choke lever (1) to <.
- Fit the filter cover in position, making sure the screw is square. Tighten down the screw.

**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**

- Warm up the engine for about 3 minutes.
- Turn the idle speed screw (LA) slowly clockwise until the engine runs smoothly – the cutting attachment must not run.

**Cutting attachment runs when engine is idling**

- Turn the idle speed screw (LA) counterclockwise until the cutting attachment stops moving and then rotate the screw another 1/2 to 3/4 turn in the same direction.

**WARNING**

If the cutting attachment continues to run when the engine is idling, have your machine checked and repaired by your servicing dealer.
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

- Shut off the engine.
- Remove the spark plug boot (1).
- Unscrew the spark plug (2).

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.

Installing the Spark Plug

- Use resistor type spark plugs with a properly tightened adapter nut.
- Screw the spark plug into the cylinder.
- Press the boot firmly onto the spark plug.
Engine Running Behavior

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

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

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

Storing the Machine

For periods of about 3 months or longer
- Drain and clean the fuel tank in a well ventilated area.
- Dispose of fuel properly in accordance with local environmental requirements.
- Run the engine until the carburetor is dry – this helps prevent the carburetor diaphragms sticking together.
- Remove, clean and inspect the cutting attachment. Coat metal cutting attachments with corrosion inhibitor.
- Thoroughly clean the machine – pay special attention to the cylinder fins and air filter.
- Store the machine in a dry and secure location – out of the reach of children and other unauthorized persons.

Maintaining the Mowing Head

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.

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- Dispose of fuel properly in accordance with local environmental requirements.
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- If necessary, remove the mowing head.

Placing power tool on the ground

Switch off the engine.

Lay your trimmer on its back with the loop handle and shroud pointing down and the output shaft facing up.
Adjusting Nylon Line

STIHL AutoCut

- Hold the rotating mowing head above the ground – tap it on the ground once – about 3 cm (1.2 in) of fresh line is advanced.
- The blade (1) on the deflector (2) trims surplus 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 (1 in).

If the line is shorter than 2.5 cm (1 in):

⚠️ WARNING

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

Replacing Nylon Line

STIHL DuroCut

⚠️ WARNING

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

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

STIHL AutoCut C 5-2

Disassembling the mowing head and removing remaining nylon line

In normal operation, the supply of nylon line in the head is used up almost completely.
Assembling the mowing head

- Fit the empty spool in the mowing head.
- If the spring (4) has popped out:
  - push it into the spool (2) until it engages in position with an audible click.
- Mount the mowing head – see "Mounting the Mowing Head".

Winding line onto spool

- Use green-coded nylon line with a diameter of 2 mm (0.08 in).
- Cut two 2 m (6ft 6in) lengths of nylon line from the reel (special accessory).
- Rotate the spool (2) counterclockwise until the two arrow points are in alignment.
- Push the straight end of each line through one of the sleeves (5) in the mowing head (3) until you feel a noticeable resistance – and then continue pushing as far as stop.
- Hold the mowing head steady.
- Rotate the spool counterclockwise until the shortest line is about 10 cm (4 in).
- If necessary, cut the longer line to a length of about 10 cm (4 in).

The mowing head is now full.
STIHL AutoCut 5-2

Removing remaining nylon line

- Open the mowing head – hold it steady with one hand and turn the cap (1) counterclockwise.
- Disengage the spool (2), take it out of the mowing head and remove the remaining line.

Winding line onto spool

A prewound spool (special accessory) may be used as an alternative to the following procedure.

- Use green-coded nylon line with a diameter of 2.0 mm (0.08 in).
- Cut two 3 m (9ft 9in) lengths of nylon line from the reel (special accessory).
- Insert the ends of each line (3) in the holes (4) in the spool.
- Bend the ends of the lines over the edge of the holes to form a hook.

- Straighten out the nylon lines and wind them tightly on to the spool – one nylon line in each chamber.
- Engage the ends of the lines in the notches (2).

Assembling the mowing head

**NOTICE**

Check that the spring is installed (see "Mounting the Mowing Head").
English

Thread the ends of the lines (6) through the sleeves (7) and push the spool (2) into the head so that it snaps into position.

The nylon lines must disengage from the notches (5) as the spool is pushed into position.

- Pull out the ends of the lines as far as stop.
- Mount the mowing head on the machine.

Revising 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 to normal operating conditions only. If your daily working time is longer or operating conditions are difficult (very dusty work area, etc.), shorten the specified intervals accordingly.

<table>
<thead>
<tr>
<th>Item</th>
<th>Before starting work</th>
<th>After finishing work or daily</th>
<th>After each refueling stop</th>
<th>Weekly</th>
<th>Monthly</th>
<th>Every 12 months</th>
<th>If problem</th>
<th>If damaged</th>
<th>As required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete machine</td>
<td>Visual inspection (condition, leaks)</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Clean</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Control handle</td>
<td>Check operation</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manual fuel pump (if fitted)</td>
<td>Check</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Have repaired by servicing dealer&lt;sup&gt;1)&lt;/sup&gt;</td>
<td></td>
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<tr>
<td>Pickup body (filter) in fuel tank</td>
<td>Check</td>
<td></td>
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<tr>
<td></td>
<td>Replace</td>
<td></td>
<td>X</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fuel tank</td>
<td>Clean</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Carburetor</td>
<td>Check idle adjustment – the cutting attachment must not rotate</td>
<td>X</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Readjust idle</td>
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<td></td>
</tr>
<tr>
<td>Spark plug</td>
<td>Readjust electrode gap</td>
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<td></td>
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<tr>
<td></td>
<td>Replace after every 100 operating hours</td>
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<tr>
<td>Cooling air inlet</td>
<td>Visual inspection</td>
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<td></td>
<td>Clean</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>All accessible screws and nuts (not adjusting screws)</td>
<td>Retighten</td>
<td></td>
<td></td>
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<td></td>
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<td></td>
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<tr>
<td>Cutting attachment</td>
<td>Visual inspection</td>
<td>X</td>
<td></td>
<td></td>
<td>X</td>
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<td>Replace</td>
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<td></td>
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<tr>
<td></td>
<td>Check tightness</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>Safety labels</td>
<td>Replace</td>
<td></td>
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</tr>
</tbody>
</table>

<sup>1</sup> STIHL recommends an authorized STIHL servicing dealer.
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)
Main Parts

1 Loop handle
2 Carrying ring
3 Stop switch
4 Throttle trigger lockout
5 Throttle trigger
6 Carburetor adjusting screws
7 Choke lever
8 Air filter cover
9 Spark plug boot
10 Machine support
11 Manual fuel pump
12 Fuel cap
13 Tank
14 Starter grip
15 Muffler
16 Mowing head
17 Blade (for mowing line)
18 Deflector
19 Shaft
# Serial number
Specifications

Engine

Single cylinder two-stroke engine

FS 40, FS 40 C

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Displacement:</td>
<td>27.2 cc</td>
</tr>
<tr>
<td>Bore:</td>
<td>34 mm</td>
</tr>
<tr>
<td>Stroke:</td>
<td>30 mm</td>
</tr>
<tr>
<td>Engine power to ISO 8893</td>
<td>0.7 kW (1 bhp)</td>
</tr>
<tr>
<td>Idle speed:</td>
<td>2,800 rpm</td>
</tr>
<tr>
<td>Cut-off speed (rated):</td>
<td>10,000 rpm</td>
</tr>
<tr>
<td>Max. output shaft speed</td>
<td>10,600 rpm</td>
</tr>
</tbody>
</table>

FS 50, FS 50 C

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Displacement:</td>
<td>27.2 cc</td>
</tr>
<tr>
<td>Bore:</td>
<td>34 mm</td>
</tr>
<tr>
<td>Stroke:</td>
<td>30 mm</td>
</tr>
<tr>
<td>Engine power to ISO 8893</td>
<td>0.8 kW (1.1 bhp)</td>
</tr>
<tr>
<td>Idle speed:</td>
<td>2,800 rpm</td>
</tr>
<tr>
<td>Cut-off speed (rated):</td>
<td>10,000 rpm</td>
</tr>
<tr>
<td>Max. output shaft speed</td>
<td>10,600 rpm</td>
</tr>
</tbody>
</table>

Ignition System

Electronic magneto ignition

Spark plug (resistor type): NGK CMR 6 H
Electrode gap: 0.5 mm

Fuel System

All position diaphragm carburetor with integral fuel pump

Fuel tank capacity: 340 cc (0.34 l)

Weight

Dry, without cutting attachment and deflector

<table>
<thead>
<tr>
<th>Model</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS 40</td>
<td>4.4 kg</td>
</tr>
<tr>
<td>FS 40 C with ErgoStart</td>
<td>4.5 kg</td>
</tr>
<tr>
<td>FS 50</td>
<td>4.4 kg</td>
</tr>
<tr>
<td>FS 50 with long shaft</td>
<td>4.5 kg</td>
</tr>
<tr>
<td>FS 50 C with ErgoStart</td>
<td>4.5 kg</td>
</tr>
<tr>
<td>FS 50 C with ErgoStart and long shaft</td>
<td>4.6 kg</td>
</tr>
</tbody>
</table>

Dimensions

without cutting attachment

<table>
<thead>
<tr>
<th>Model</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS 40</td>
<td>1450 mm</td>
</tr>
<tr>
<td>FS 40 C with ErgoStart</td>
<td>1450 mm</td>
</tr>
<tr>
<td>FS 50</td>
<td>1450 mm</td>
</tr>
<tr>
<td>FS 50 with long shaft</td>
<td>1650 mm</td>
</tr>
<tr>
<td>FS 50 C with ErgoStart</td>
<td>1450 mm</td>
</tr>
<tr>
<td>FS 50 C with ErgoStart and long shaft</td>
<td>1650 mm</td>
</tr>
</tbody>
</table>

Noise and Vibration Data

Noise and vibration data measurements include idling and rated maximum speed with the same duration of exposure.

For further details on compliance with Vibration Directive 2002/44/EC see www.stihl.com/vib.

Sound pressure level $L_p$ to ISO 22868

<table>
<thead>
<tr>
<th>Model</th>
<th>$L_p$ (dB(A))</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS 40, FS 40 C</td>
<td>94 dB(A)</td>
</tr>
<tr>
<td>FS 50, FS 50 C</td>
<td>93 dB(A)</td>
</tr>
</tbody>
</table>

Sound power level $L_w$ to ISO 22868

<table>
<thead>
<tr>
<th>Model</th>
<th>$L_w$ (dB(A))</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS 40, FS 40 C</td>
<td>107 dB(A)</td>
</tr>
<tr>
<td>FS 50, FS 50 C</td>
<td>108 dB(A)</td>
</tr>
</tbody>
</table>

Vibration measurement $a_{h,eq}$ to ISO 22867

<table>
<thead>
<tr>
<th>Model</th>
<th>$a_{h,eq}$ (m/s²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Handle, left</td>
<td>7.0 m/s²</td>
</tr>
<tr>
<td>Handle, right</td>
<td>6.4 m/s²</td>
</tr>
<tr>
<td>FS 40, FS 40 C</td>
<td>6.0 m/s²</td>
</tr>
<tr>
<td>FS 50, FS 50 C</td>
<td>5.7 m/s²</td>
</tr>
</tbody>
</table>

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.

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.

Exhaust Emissions

The CO₂-value measured in the EU type approval procedure is specified at www.stihl.com/co2.
The measured CO₂ value was determined on a representative engine in accordance with a standardized test procedure under laboratory conditions and does not represent either an explicit or implied guarantee of the performance of a specific engine.

The applicable exhaust emission requirements are fulfilled by the intended usage and maintenance described in this 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 environmentally 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

declares under our sole responsibility that

Designation: Trimmer
Make: STIHL
Series: FS 40
FS 40 C
FS 40 C-E
FS 50
FS 50-L
FS 50 C
FS 50 C-E
FS 50 C-E L

Serial identification number: 4144
Displacement: 27.2 cc

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 61000-6-1, EN 55012.

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
all FS 40: 107 dB(A)
all FS 50: 108 dB(A)

Guaranteed sound power level
all FS 40: 109 dB(A)
all FS 50: 110 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, 03.02.2020
ANDREAS STIHL AG & Co. KG

pp

Dr. Jürgen Hoffmann
Head of Product Data, Regulations and Licensing

CE
English