

FCB-KM

STIHL



2 - 16

Instruction Manual



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1 KombiSystem

In the STIHL KombiSystem a number of different KombiEngines and KombiTools can be combined to produce a power tool. In this instruction manual the functional unit formed by the KombiEngine **and** KombiTool is referred to as the power tool.

Therefore, the separate instruction manuals for the KombiEngine and KombiTool should be used together for the power tool.

Always read and make sure you understand **both** instruction manuals before using your power tool for the first time and keep them in a safe place for future reference.

2 Guide to Using this Manual

2.1 Pictograms

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

2.2 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.

2.3 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.

3 Safety Precautions and Working Techniques



Special safety precautions must be observed when working with this edger because it has a sharp cutting blade that rotates at very high speed.



Read both User Manuals (KombiEngines and KombiTools) carefully before using the unit for the first time and keep them in a safe place for future reference. Non-compliance with the User Manuals may cause serious or even fatal injury.

The machine should only be provided or loaned to people familiar with this model and its operation. The User Manuals for the KombiEngines and KombiTools should always be handed over with the machine.

The edger may only be used to cut borders along paths, flower beds and lawns.

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

Only use blades or accessories which have been approved by STIHL for this machine or which are technically equivalent. If you have any questions about this, consult a dealer.

Use only high-quality parts and accessories. Otherwise there is a risk of accidents and damage to the power tool.

STIHL recommends the use of genuine STIHL tools and accessories. They are specifically

designed to match the product and meet your performance requirements.

The deflector provided with the edger may not protect the operator from all foreign objects (gravel, glass, wire etc.) thrown by the revolving blades. Ejected objects may also ricochet and strike the operator.

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.

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

3.1 Clothing and equipment

Wear proper protective clothing and equipment.



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

Do not wear clothing that 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 safety boots with steel toe caps and non-slip soles.



WARNING



To reduce the risk of eye injuries, wear close-fitting safety glasses in accordance with European Standard EN 166, EN ISO 16321 (for Canada, in accordance with standard CSA Z94). Make sure the safety glasses fit snugly.

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

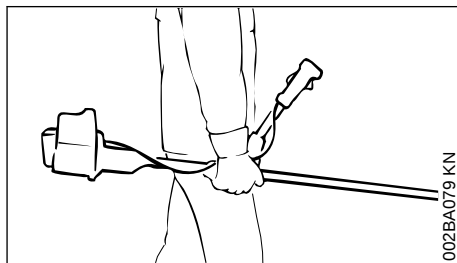
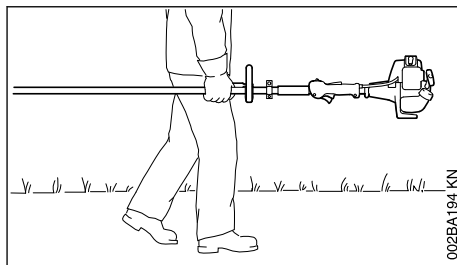
Wear face protection and make sure it fits well. Face protection alone is not sufficient to protect the eyes.



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

STIHL offers a comprehensive range of personal protective equipment.

3.2 Transporting the power tool



Always stop the engine.

Carry the machine by the shaft so that it is balanced - the cutting attachment should face forwards.

Do not touch hot parts of the machine – **risk of burn injury!**

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

3.3 Before starting

Check that your power tool is in safe operating condition – refer to appropriate chapters in the User Manuals for KombiEngines and KombiTools:

- Blades: correctly and securely mounted and in good condition (clean, move freely, not warped)
- Inspect the deflectors for damage and wear. Do not use the machine with a damaged deflector – replace damaged parts
- Do not attempt to modify the controls or safety devices in any way – only work with the deflector fitted
- Keep the handles dry and clean – free from oil and dirt – this is important for safe control of the machine.
- Adjust the harness and handle(s) to suit your height and reach.

The power tool must only be operated when it is in good operating condition – **Risk of accident!**

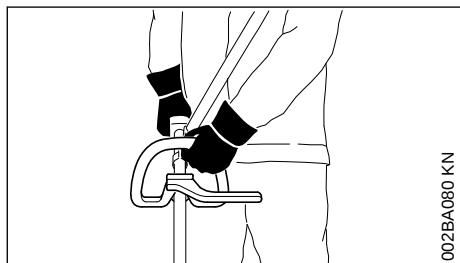
To prepare for emergencies when using a harness: Practice setting down the machine quickly. To avoid damage, do not throw the unit to the ground when practicing.

3.4 Holding and guiding the power tool

Make sure you always have a firm and secure footing.

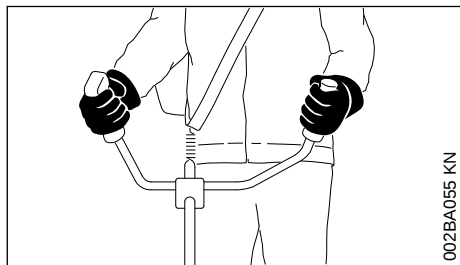
Always hold the power tool firmly with both hands on the handles.

3.4.1 For versions with loop handle



For versions with loop handle and loop handle with barrier bar, left hand on the loop handle, right hand on the control handle – even if you are left-handed.

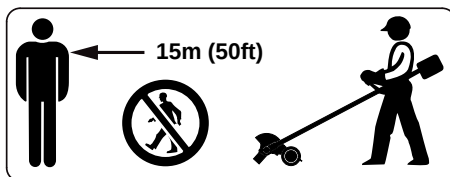
3.4.2 For versions with bike handle



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

3.5 While working

In the event of impending danger or in an emergency, switch off the engine immediately by moving the slide control/stop switch to **0** or **STOP**.



There is a risk of accident from ejected objects within a wide area around the working space, so make sure that there is no-one within a 15 m radius of the power tool. 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.



Avoid contact with the blade – **risk of injury!**

Check for correct idling, so that the blade stops moving when the throttle trigger is released. Check and correct the idle speed setting at regular intervals. If the blade still rotates when the engine is idling, have a dealer repair the power tool – see User Manual for KombiEngines.



Never work without deflector suitable for the respective machine and cutting tool – **risk of injury** from ejected objects!



The gear head becomes hot during operation. Do not touch the gear housing – **risk of burns!**

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

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



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



To avoid the risk of electrocution, never use your power tool in areas where electrical lines are laid on the surface or buried just below the surface. If they are touched or damaged by the KombiTool, this may cause serious or **fatal injuries**.



Make sure you always have a firm and secure footing.

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

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

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.

Never touch the blade when the motor is running. If the blade becomes jammed by an object, switch off the engine immediately before attempting to remove the object – **risk of injury!**

Blockage of the blade while at the same time opening the throttle increases the load and reduces the working speed of the engine. The constant slipping of the clutch causes overheating and damage to important components (e.g. clutch, plastic housing parts) – for example, subsequently to the blade moving during idling – **risk of injury!**

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 proper functioning of the safety devices. Never use a power tool that is no longer safe to operate. In case of doubt, contact a STIHL authorized dealer.

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

- Turn off the engine, hold the edger securely and press the blade against the lawn to stop it
- Check condition and tightness; note any cracks
- A defective blade must be replaced immediately, even if there are only minor hairline cracks.

Clean the area around the cutting attachment and deflector regularly while working.

- Shut off the engine
- Use gloves
- Remove grass, weeds, clumps of soil, etc.

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

Do not reuse or repair damaged or cracked blades – for example, by welding or straightening – risk of deformation (out-of-balance).

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

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

3.6 After finishing work

After finishing work or before leaving the power tool unattended: Shut off the engine.

Clean the cutting attachment regularly after finishing work to remove dust, dirt, soil and plant debris – wear gloves – **risk of injury!**

Do not use any grease solvents when cleaning.

After cleaning it thoroughly, coat the surface of metal cutting attachments with an anticorrosive agent.

3.7 Maintenance and Repairs

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

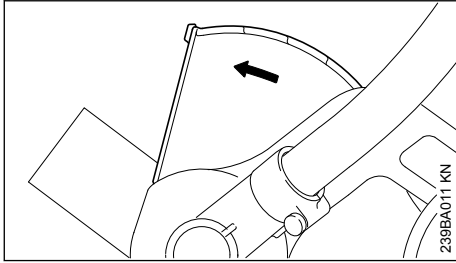
STIHL recommends that you have servicing and repair work carried out exclusively by an authorized STIHL servicing dealer. STIHL dealers are regularly given the opportunity to attend training courses and are supplied with the necessary technical information.

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

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

To reduce the risk of injury, **always shut off the engine** before carrying out any maintenance or repairs or cleaning the machine.

3.8 Cutting attachments and deflectors



The arrow on the deflector shows the direction of rotation of the blade – see "Use".

Operate the edger only the skirt attached to the deflector – see "Replacing the skirt".

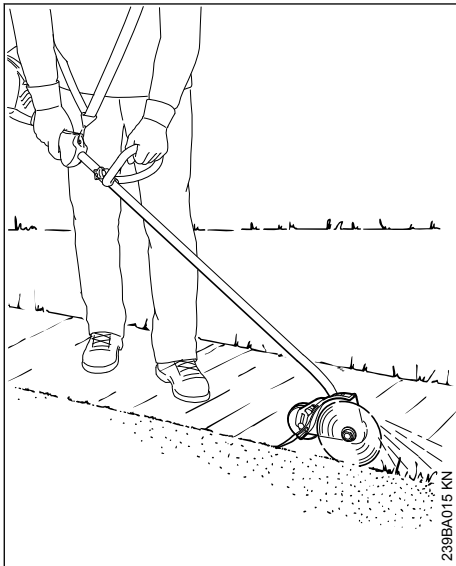
Handle the blade correctly – see "Use".

Optimum cutting performance: at full throttle and with uniform feed.

STIHL recommends the use of genuine STIHL blades – see "Special accessories".

Only use deflectors or attachments which have been approved by STIHL for this machine or which are technically equivalent.

4 Using the Unit



Your power edger is designed to produce sharp contoured borders around lawns and flower

beds. It will cut almost all types of grass, weeds and soft green plants.

4.1 Preparations

If the work area is very dry, spray it lightly with water: this softens the soil and ensures that less dust is created. Slightly damp green plants are easier to cut.

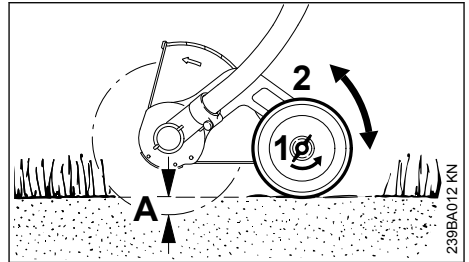


WARNING

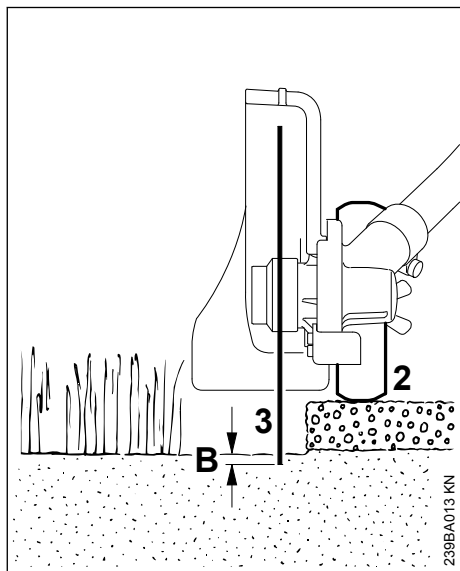
Clear away all obstacles and solid objects from the work area.

- Plan the best route for edging. Always hold and operate your edger on the right-hand side of your body.

4.2 Adjusting Depth of Cut

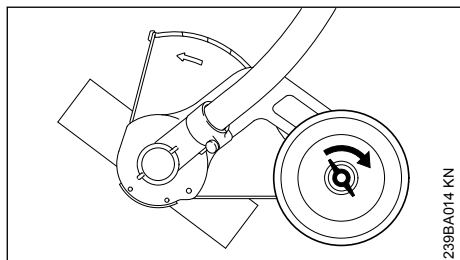


- Shut down the engine.
- Loosen the wingnut (1) counterclockwise.
- Push wheel (2) upwards to increase the depth of cut (A) or downwards to reduce the depth of cut (A).

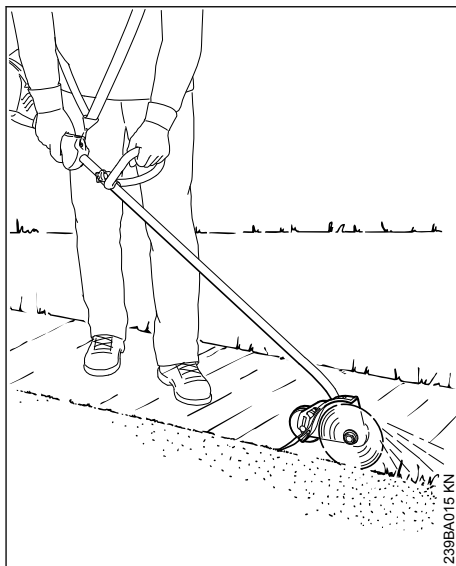
Adjust correctly

The depth of cut depends on the unevenness of the ground, your height and the way you hold the edger. Use the following procedure:

- Adjust the depth wheel (2) so that the blade (3) just touches the ground or breaks the surface of the soil by no more than 5 mm (B)



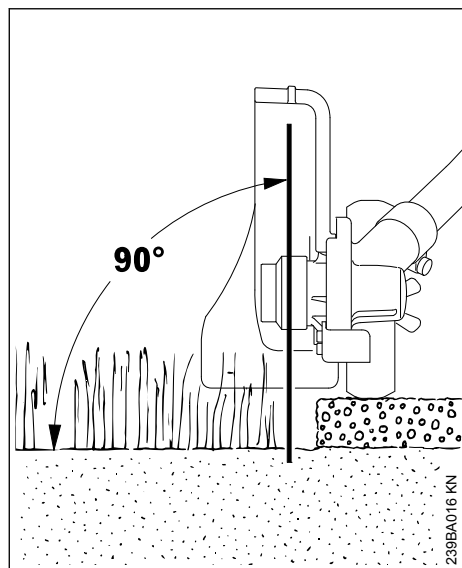
- Tighten down the wingnut clockwise.
- Standing in the normal working position, check the depth of cut again and correct it if necessary.

**WARNING**

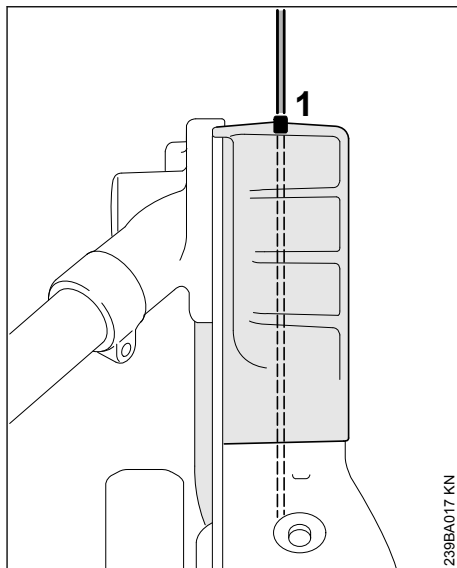
Do not adjust the deflector.

The deflector has been set at the factory so that the arrow on the deflector and the open side point away from the operator. This ensures that cuttings and other debris are directed away from the power tool and operator.

4.3 Edging



- Start the engine
- Start the cut at no less than half throttle and continue cutting at full throttle.
- Hold and guide your power tool so that the blade is vertical.
- Cut steadily so that the engine is not lugged down – do not apply force.
- Operate at no more than a normal walking pace.
- Do not push the blade into the ground.
- Always walk forwards when cutting, do not pull the unit towards you.
- Cut at a steady pace to avoid having to make several passes.



- Use the gunning sight (1) to line the blade up with the edge of the bed.

5 Approved KombiEngines

5.1 KombiEngines

Only use KombiEngines supplied or explicitly approved by STIHL for use with the attachment.

This KombiTool may only be operated with the following KombiEngines:

STIHL KM 56 R, KM 85 R, KM 94 R, KM 111 R, KM 131, KM 131 R, KM 235 R, KMA 130 R, KMA 135 R, KMA 80.0 R, KMA 120.0 R, KMA 140.0 R, KMA 140.0 R B, KMA 200.0 R



WARNING

Machines with a loop handle must be equipped with a barrier bar.

5.2 Brushcutters with split shaft

The KombiTool can also be mounted on STIHL brushcutters with a split shaft (T-models) (basic power tools).

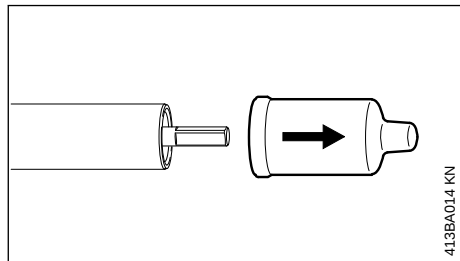
Operation of this KombiTool is therefore also permitted on the following power tool models:

STIHL FR 131 T

**WARNING**

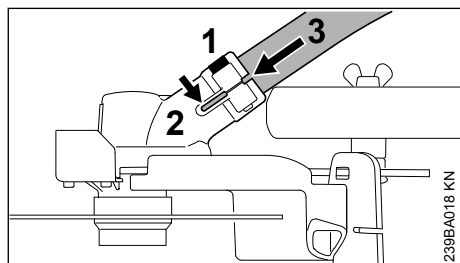
Refer to the power tool's User Manual for how to use the barrier bar.

6 Assembling the Unit

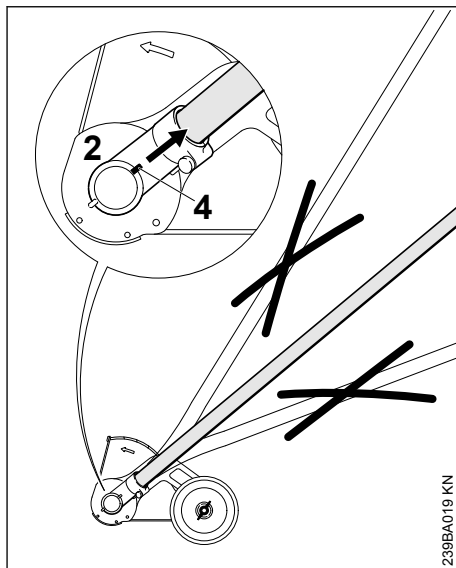


- Pull the protective caps off of the ends of the shaft and keep them in a safe place for later use – see "Storing the Machine"

6.1 Connecting drive tube to gearbox

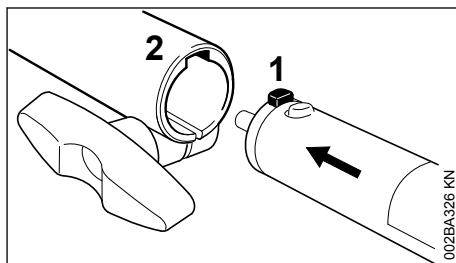


- Loosen the clamping screw (1) on the gearbox – do not remove
- Insert curved end of drive tube (3) in the gearbox (2), turn the gearbox back and forth as necessary.
- Push the shaft (3) in as far as it will go.
- Screw in the clamping screw (1) as far as it will go – do not tighten yet!

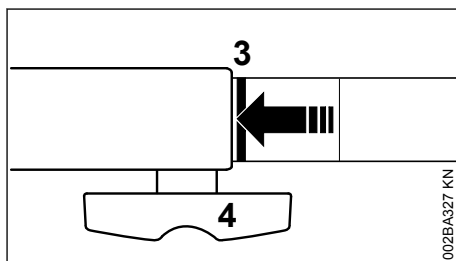


- Align the gearbox (2) on the shaft so that the rib (4) is in line with the shaft.
- Tighten the clamping screw firmly.

7 Mounting the KombiTool



- Push the lug (1) on the drive tube into the slot (2) in the coupling sleeve as far as stop.



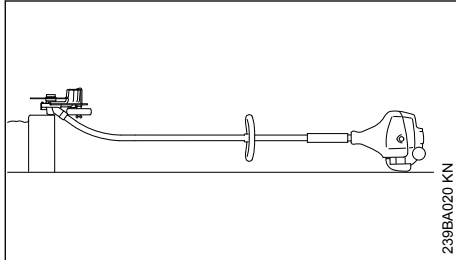
When correctly installed, the red line (3) (arrow point) must be flush with the end of the coupling sleeve.

- Tighten down the star knob (4) **firmly**.

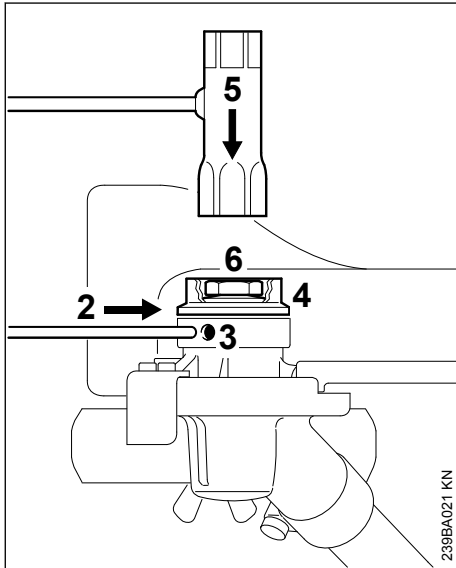
7.1 Removing the KombiTool

- Reverse the above sequence to remove the drive tube.

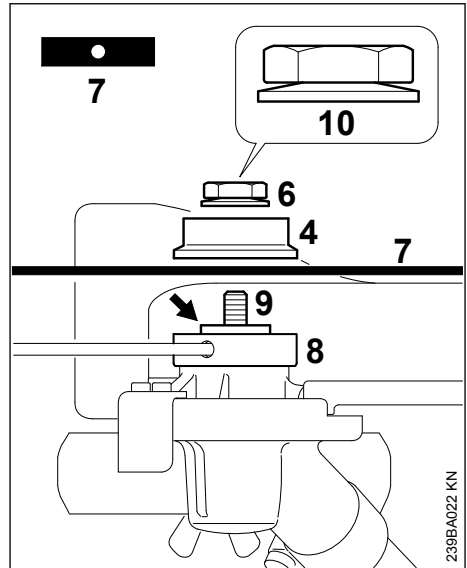
8 Mounting the Cutting Blade



- Place the edger so that the blade mounting (1) faces upwards



- Insert the locking pin (2) as far as possible into the bore (3), push lightly and rotate back and forth a little together with the thrust washer (4) until the shaft is blocked.
- Fit Allen wrench (5) onto nut (6).
- Turn nut clockwise (left-hand thread) and remove it.
- Remove the thrust washer.



- Position the blade (7) on the thrust plate (8).



WARNING

The collar (arrow) must engage the hole in the blade.

- Fit the thrust washer (4) on the shaft (9) and block the shaft.
- Screw nut (6) counterclockwise onto shaft and tighten.



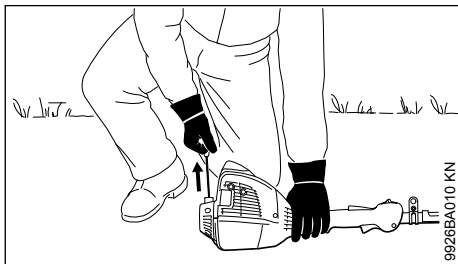
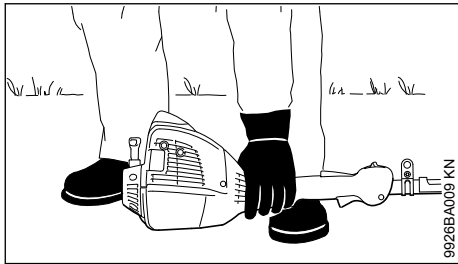
WARNING

If the cup spring (10) on the nut (6) becomes fatigued, then the nut must be replaced!

9 Starting / Stopping the Engine

9.1 Starting the engine

To start the engine, basically follow the instructions for use for the KombiEngine or basic power tool!



- Place the machine on the ground in a secure position

The blade must not touch the ground or any other objects – **risk of accident!**

- Assume a firm stance – possibilities: standing, bending or kneeling
- Press the machine **firmly** against the ground with the left hand – do not touch the control elements on the control handle while doing so – see instruction manual for the KombiEngine or basic power tool

NOTICE

Do not stand or kneel on the shaft!



WARNING

If the engine is started, the blade may rotate as soon as the engine is running – therefore blip the throttle trigger as soon as the engine is running – the engine begins to idle.

The other starting procedure is described in the instruction manual for the KombiEngine or basic power tool.

9.2 Switching off the engine

- see instruction manual for the KombiEngine or basic power tool

10 Storing the Machine

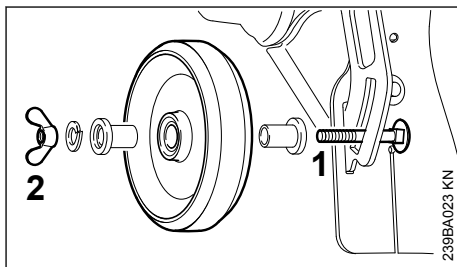
For periods of 30 days or longer

- Remove, clean and inspect the cutting blade.
- If the KombiTool is removed from the KombiEngine and stored separately: Fit the protective cap on the drive tube to avoid dirt getting into the coupling.
- Store the machine in a dry, high or locked location – out of the reach of children and other unauthorized persons.

11 Replacing the Depth Wheel

Have a worn depth wheel replaced by a servicing dealer. STIHL recommends that you have servicing and repair work carried out exclusively by an authorized STIHL servicing dealer.

11.1 Depth Wheel

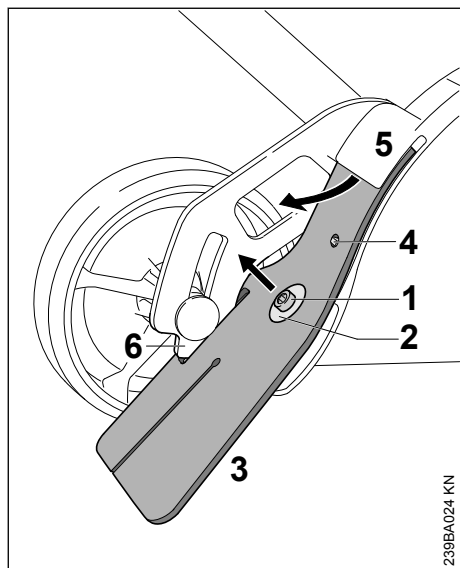


- The end of the thread on the screw (1) is peened over to ensure that the wingnut (2) does not work loose and be lost.

A very high torque has to be applied to remove the wingnut from the screw. If the parts are then reassembled, the captive function is no longer guaranteed. In such a case have the screw and wingnut replaced by a servicing dealer.

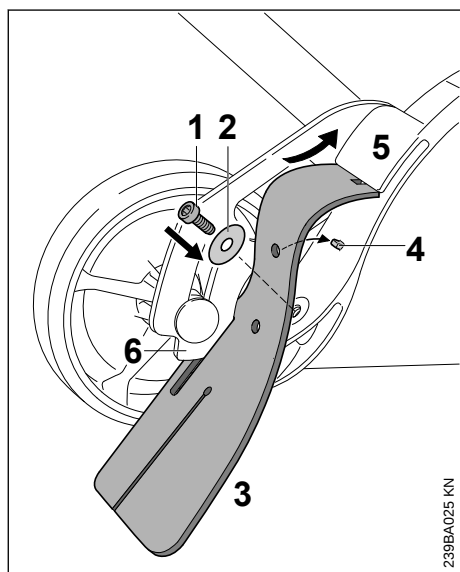
12 Replacing the Skirt

12.1 Removing the skirt



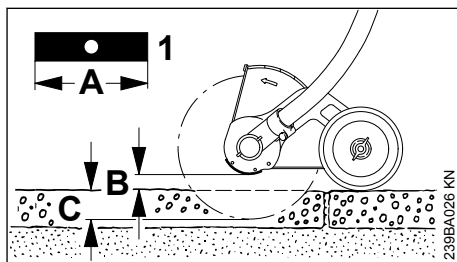
- Undo and remove the screw (1).
- Remove the washer (2)
- Pull the skirt (3) out of the segment (6) and out of the gap (5) in the deflector

12.2 Fitting the skirt



- In order to push the skirt easily into the gap on the deflector, apply a thin coating of resin-free oil to the top of the skirt
- Thread the skirt (3) into the segment (6) and push into the gap (5) of the deflector – the bore in the skirt must be fixed in the arbor (4)
- Place washer (2) onto screw (1).
- Insert and tighten the screw (1)

13 Replacing the Cutting Blade



Do not attempt to straighten or weld a bent or cracked blade – **it may break** – it must be replaced – see "Mounting the Cutting Blade".

STIHL recommends you use only the following original STIHL cutting blades:

Length	Thickness	Marking
200 mm	2.4 mm	4133 / 01
200 mm	3.8 mm	4133 / 02

Do not sharpen the blade.

- Replace the blade (1) if its length (A) is no longer sufficient to maintain the necessary ground clearance (B) and obtain the required depth of cut (C).

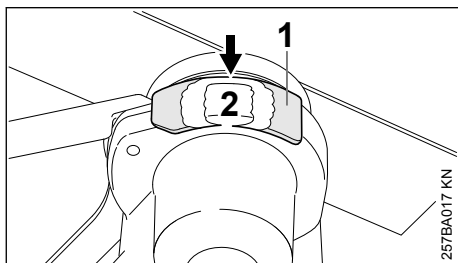
13.1 Checking Out-of-Balance

To avoid out-of-balance:

- Have your dealer check the blade for out-of-balance on a STIHL balancer (special accessory) – STIHL recommends an authorized STIHL servicing dealer. If blade is out-of-balance, fit a new one – see "Mounting the Cutting Blade".

14 Checking and Replacing the Wear Guard

14.1 Checking the protection against wear

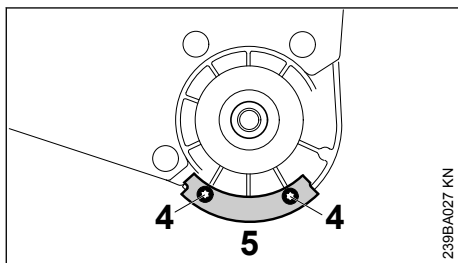


- ▶ Before starting up the machine, check that the protection against wear (1) is not damaged
- ▶ Replace the protection against wear at the latest when the gearbox (2) becomes visible (arrow)

NOTICE

If worn deflectors are not replaced in time, this can cause serious damage to the gearbox.

14.2 Replacing the protection against wear



- ▶ Remove the blade – see "Fitting the blade"
- ▶ Unscrew screws (4)
- ▶ Replace the protection against wear (5)
- ▶ Screw in and tighten screws (4)
- ▶ Fit the blade – see "Fitting the blade"

15 Maintenance and Care

The following information applies in normal operating conditions. The specified intervals must be shortened accordingly when working for longer than normal or under difficult cutting conditions (extensive dust, etc.).

All accessible screws, nuts and bolts

- ▶ check and retighten if necessary

Wheel

- ▶ Visual inspection, before starting work
- ▶ Check that the wingnut is secure, before starting work
- ▶ Have it replaced if necessary – see "Replacing the wheel"

Skirt

- ▶ Visual inspection, before starting work
- ▶ Replace if damaged – see "Replacing the skirt"

Blade

- ▶ Visual inspection, before starting work
- ▶ Check that it is secure, before starting work
- ▶ If necessary, have it checked to see if it is out of balance, replace if it is out of balance – see "Replacing the blade"
- ▶ Replace if damaged – see "Replacing the blade"

Protection against wear

- ▶ Check before starting work
- ▶ Replace if necessary – see "Check and replace protection against wear"

Safety information label

- ▶ Replace illegible safety information labels

16 Minimize Wear and Avoid Damage

Observing the instructions in this manual and the KombiEngine 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 these instruction manuals.

The user is responsible for all damage caused by non-observance of the safety precautions, operating and maintenance instructions. 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.

16.1 Maintenance Work

All the operations described in the chapter on "Maintenance and Care" 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:

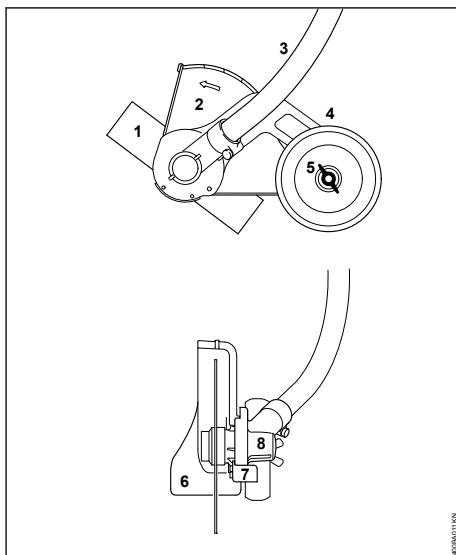
- Corrosion and other consequential damage resulting from improper storage.
- Damage to the product resulting from the use of poor quality replacement parts.

16.2 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:

- Blades (all types)
- Mounting hardware for blade
- Deflector, skirt
- Wear guards

17 Main Parts



- 1 Blade
- 2 Guard
- 3 Shaft
- 4 Wheel
- 5 Wingnut
- 6 Skirt
- 7 Protection against wear
- 8 Gearbox

18 Specifications

18.1 Speed

Max. output shaft speed on cutting attachment with KombiEngine:

KM 56 R:	8100 rpm
KM 85 R:	8500 rpm
KM 94 R:	8300 rpm
KM 111 R:	8000 rpm
KM 131:	8500 rpm
KM 131 R:	8500 rpm
KM 235.0 R:	9000 rpm
KMA 80.0 R:	6900 rpm
KMA 120.0 R:	6900 rpm
KMA 130 R:	6900 rpm
KMA 135 R:	6900 rpm
KMA 140.0 R,	7400 rpm
KMA 140.0 R B:	
KMA 200.0 R:	6800 rpm

Max. output shaft speed (cutting attachment) on STIHL brushcutters with split shaft (T models):

FR 131 T: 8100 rpm

18.2 Weight

with deflector and blade: 2.0 kg

18.3 Noise and vibration values

Noise and vibration data measurements on power tools with the FCB-KM KombiTool 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

18.3.1 Sound pressure level L_{peq} according to ISO 11201, uncertainty K: 2 dB(A)

KM 56 R with loop handle:	94 dB(A)
KM 85 R with loop handle:	96 dB(A)
KM 111 R with loop handle:	95 dB(A)
KM 131 with bike handle:	97 dB(A)
KM 131 R with loop handle:	98 dB(A)
KM 235.0 R with loop handle:	99 dB(A)
KM 130 R with loop handle:	78 dB(A)
KM 135 R with loop handle:	79 dB(A)
KMA 80.0 R with loop handle:	82 dB(A)
KMA 120.0 R with loop handle:	82 dB(A)
KMA 140.0 R, KMA 140.0 R B with loop handle	78 dB(A)
KMA 200.0 R with loop handle:	80 dB(A)
FR 131 T:	97 dB(A)

18.3.2 Sound pressure level L_{peq} according to ISO 11789, uncertainty K: 2 dB(A)

KM 94 R with loop handle:	92 dB(A)
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18.3.3 Sound power level L_{weq} according to ISO 3744, uncertainty K: 2 dB(A)

KM 56 R with loop handle:	104 dB(A)
KM 85 R with loop handle:	108 dB(A)
KM 111 R with loop handle:	105 dB(A)
KM 131 with bike handle:	106 dB(A)
KM 131 R with loop handle:	106 dB(A)
KM 235.0 R with loop handle:	108 dB(A)
KM 130 R with loop handle:	93 dB(A)
KM 135 R with loop handle:	99 dB(A)
KMA 80.0 R with loop handle:	98 dB(A)
KMA 120.0 R with loop handle:	98 dB(A)
KMA 140.0 R, KMA 140.0 R B with loop handle	97 dB(A)
KMA 200.0 R with loop handle:	97 dB(A)
FR 131 T:	106 dB(A)

18.3.4 Sound power level L_{weq} according to ISO 11789, uncertainty K: 2 dB(A)

KM 94 R with loop handle:	104 dB(A)
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18.3.5 Vibration value $a_{hv,eq}$ according to ISO 11789, uncertainty K_a : 2.0 m/s²

	Handle, left	Handle, right
KM 56 R with loop handle:	5.5 m/s ²	6.6 m/s ²
KM 85 R with loop handle:	3.2 m/s ²	6.0 m/s ²
KM 111 R with loop handle:	3.8 m/s ²	3.0 m/s ²
KM 131 with bike handle:	3.0 m/s ²	3.4 m/s ²
KM 131 R with loop handle:	4.1 m/s ²	4.5 m/s ²
KM 235 R with loop handle:	4.8 m/s ²	4.8 m/s ²
FR 131 T:	2.6 m/s ²	2.4 m/s ²

18.3.6 Vibration value $a_{hv,eq}$ according to ISO 22867, uncertainty K_a : 2.0 m/s²

	Handle, left	Handle, right
KM 94 R with loop handle:	3.8 m/s ²	4.3 m/s ²

18.3.7 Vibration value $a_{hv,eq}$ according to EN 20643, uncertainty K_a : 2.0 m/s²

	Handle, left	Handle, right
KM 130 R with loop handle:	3.5 m/s ²	2.0 m/s ²
KM 135 R with loop handle:	1.8 m/s ²	3.6 m/s ²
KMA 80.0 R with loop handle:	3.5 m/s ²	1.8 m/s ²
KMA 120.0 R with loop handle:	3.9 m/s ²	1.7 m/s ²
KMA 140.0 R, KMA 140.0 R B with loop handle	1.5 m/s ²	1.1 m/s ²
KMA 200.0 R with loop handle:	3.7 m/s ²	2.8 m/s ²

18.3.8 Vibration value p_f according to EN ISO 5349-3, uncertainty K_p : 64 m/s²

	Handle, left	Handle, right
KM 56 R with loop handle:	82 m/s ²	145 m/s ²
KM 131 R with loop handle:	72 m/s ²	99 m/s ²
KM 235 R with loop handle:	94 m/s ²	117 m/s ²
KM 94 R with loop handle:	69 m/s ²	102 m/s ²
KMA 80.0 R with loop handle:	82 m/s ²	82 m/s ²
KMA 120.0 R with loop handle:	22 m/s ²	28 m/s ²

	Handle, left	Handle, right
KMA 140.0 R,	71 m/s ²	83 m/s ²
KMA 140.0 R B with loop handle		
KMA 200.0 R with loop handle:	58 m/s ²	113 m/s ²

18.4 REACH

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

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

www.stihl.com/reach

19 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.

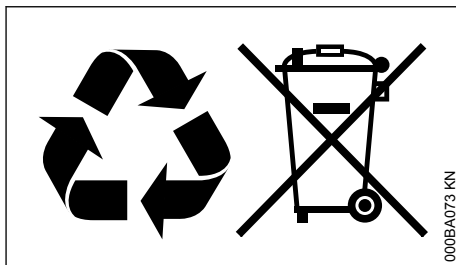
STIHL recommends the use of original STIHL replacement parts.

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).

20 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.

21 EU conformity

The EU Declaration of Conformity is available at stihl.link/compliance.

Further information and a form for reporting security vulnerabilities are available at vdp.stihl.com.

22 Addresses

www.stihl.com

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