

## STIHL HL-KM

Instruction Manual  
Manual de instrucciones



### WARNING

Read Instruction Manual thoroughly before use and follow all safety precautions – improper use can cause serious or fatal injury.



### ADVERTENCIA

Antes de usar la máquina lea y siga todas las precauciones de seguridad dadas en el manual de instrucciones – el uso incorrecto puede causar lesiones graves o mortales.



**Instruction Manual**

**1 - 21**

**Manual de instrucciones**

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Allow only persons who fully understand the manuals of the KombiEngine and hedge trimmer KombiTool to operate this power tool combination.

To receive maximum performance and satisfaction from your STIHL KombiTool, it is important that you read, understand and follow the safety precautions and the operating and maintenance instructions in chapter "Safety Precautions and Working Techniques" before using your KombiTool. For further information you can go to [www.stihlusa.com](http://www.stihlusa.com).

Contact your STIHL dealer or the STIHL distributor for your area if you do not understand any of the instructions in the two manuals.

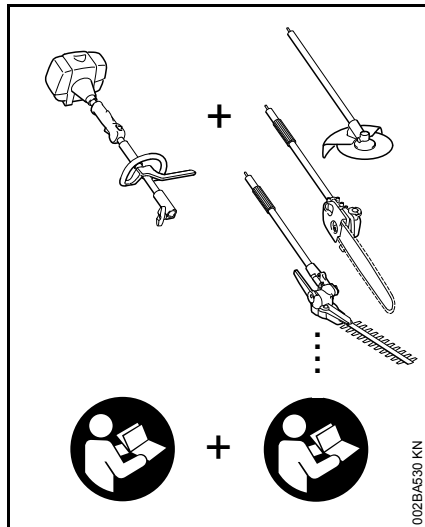
## WARNING

Because a KombiEngine equipped with a hedge trimmer KombiTool has a high-speed cutting attachment some special safety precautions must be observed to reduce the risk of personal injury. Careless or improper use may cause serious or even fatal injury.

# STIHL®

HL-KM

## 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.

## Guide to Using this Manual

### Pictograms

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

### Symbols in Text

Many operating and safety instructions are supported by illustrations.

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

- A bullet marks a step or procedure.

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

- Loosen the screw (1).
- Lever (2) ...

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

### DANGER

Indicates an imminent risk of severe or fatal injury.

### WARNING

Indicates a hazardous situation which, if not avoided, could result in severe or fatal injury.

### NOTICE

Indicates a risk of property damage, including damage to the machine or its individual components.

### Engineering Improvements

STIHL's philosophy is to continually improve all of its products. As a result, engineering changes and improvements are made from time to time. Therefore, some changes, modifications and improvements may not be covered in this manual. If the operating characteristics or the appearance of your machine differs from those described in this manual, please contact your STIHL dealer or the STIHL distributor for your area for assistance.

## Safety Precautions and Working Techniques



Because a KombiEngine equipped with a hedge trimmer KombiTool is a high-speed, fast-cutting power tool with sharp cutting blades, special safety precautions must be observed to reduce the risk of personal injury.



It is important that you read, fully understand and observe the following safety precautions and warnings. Read the instruction manuals and the safety precautions of your KombiEngine and KombiTool periodically. Careless or improper use may cause serious or fatal injury.

Have your STIHL dealer show you how to operate your power tool. Observe all applicable local safety regulations, standards and ordinances.

### **WARNING**

Do not lend or rent your power tool without the instruction manuals of your KombiEngine and KombiTool. Be sure that anyone using it understands the information contained in these manuals.

### **WARNING**

The use of this machine may be hazardous. If the cutting tool comes in contact with your body, it will cut you.

Use your KombiEngine equipped with the hedge trimmer KombiTool only for cutting hedges, shrubs, scrub, bushes and similar material.

### **WARNING**

Do not use it for other purposes, since misuse may result in personal injury or property damage, including damage to the machine.

### **WARNING**

Minors should never be allowed to use this power tool. Bystanders, especially children, and animals should not be allowed in the area where it is in use.

### **WARNING**

To reduce the risk of injury to bystanders and damage to property, never let your power tool run unattended. When it is not in use (e. g. during a work break), shut it off and make sure that unauthorized persons do not use it.

Most of these safety precautions and warnings apply to the use of all STIHL hedge trimmers. Different models may have different parts and controls. See the appropriate section of your KombiEngine and KombiTool instruction manuals for a description of the controls and the function of the parts of your model.

Safe use of a power tool involves

1. the operator
2. the power tool
3. the use of the power tool.

## THE OPERATOR

### Physical Condition

You must be in good physical condition and mental health and not under the influence of any substance (drugs, alcohol, etc.) which might impair vision, dexterity or judgment. Do not operate this machine when you are fatigued.

### **WARNING**

Be alert – if you get tired, take a break. Tiredness may result in loss of control. Working with any power tool can be strenuous. If you have any condition that might be aggravated by strenuous work, check with your doctor before operating this machine.

### Proper Clothing

### **WARNING**

To reduce the risk of injury, the operator should wear proper protective apparel.

**! WARNING**



To reduce the risk of injury to your eyes never operate your power tool unless wearing goggles or properly fitted protective glasses with adequate top and side protection complying with ANSI Z87 "+" (or your applicable national standard). To reduce the risk of injury to your face STIHL recommends that you also wear a face shield or face screen over your goggles or protective glasses.

Wear an approved safety hard hat to reduce the risk of injury to your head when there is a danger of head injuries.

Power tool noise may damage your hearing. Wear sound barriers (ear plugs or ear muffs) to protect your hearing. Continual and regular users should have their hearing checked regularly.

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



Always wear heavy duty work gloves (e.g. made of leather or other wear resistant material) when handling the machine and the cutting tool. Heavy-duty, nonslip gloves improve your grip and help to protect your hands.



Clothing must be sturdy and snug-fitting, but allow complete freedom of movement. Wear long pants made of heavy material to help protect your legs. Do not wear shorts, sandals or go barefoot.

Avoid loose-fitting jackets, scarfs, neckties, jewelry, flared or cuffed pants, unconfined long hair or anything that could become caught on branches, brush or the moving parts of the unit. Secure hair so it is above shoulder level.



Good footing is very important. Wear sturdy boots with nonslip soles. Steel-toed safety boots are recommended.

For further instructions on proper clothing see the safety precautions in the instruction manual of the KombiEngine you are using.

## **THE POWER TOOL (KOMBIENGINE EQUIPPED WITH HEDGE TRIMMER KOMBITOOL)**

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For illustrations and definitions of the power tool parts see the chapter on "Main Parts."

**! WARNING**

Never modify this power tool in any way. Only attachments supplied by STIHL or expressly approved by STIHL for use with the specific STIHL KombiEngine are authorized. Although certain unauthorized attachments are useable with STIHL power tools, their use may, in fact, be extremely dangerous.

If this 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. Check in particular that the controls and safety devices are working properly. Do not continue operating this machine if it is damaged. In case of doubt, have it checked by your STIHL servicing dealer.

## **THE USE OF THE POWER TOOL (KOMBIENGINE EQUIPPED WITH HEDGE TRIMMER KOMBITOOL)**

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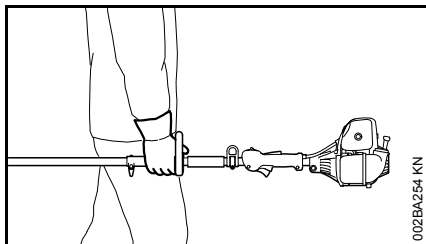
### **Transporting the Power Tool**

**! WARNING**

To reduce the risk of injury from blade contact, never carry or transport your power tool with the cutting blades moving.

## **! WARNING**

Always switch off the engine and fit the scabbard over the cutting blades before transporting the power tool over long distances.



It may be carried only in a horizontal position. Grip the shaft in a manner that the machine is balanced horizontally. Keep the hot muffler away from your body and the cutting attachment behind you.

## **! WARNING**

To reduce the risk of burn injury, do not touch hot parts of the machine and the gear housing when they are hot.

## **! WARNING**

When transporting it in a vehicle, properly secure it to prevent turnover, fuel spillage and damage to the unit.

On machines with an adjustable cutter bar: Make sure the cutter bar is secured in position. See chapter in this instruction manual entitled "Adjusting the Cutter Bar." On machines with a transport position: Move cutter bar to transport position and secure.

## **Before Starting**

### **! WARNING**

Always check your power tool for proper condition and operation before starting. Never attempt to modify the controls or safety devices.

### **! WARNING**

Never operate your power tool if it is damaged, improperly adjusted or maintained, or not completely or securely assembled.

### **! WARNING**

The cutting attachment must be properly tightened and in safe operating condition. Inspect for loose parts (nuts, screws, etc.) and for cracked, bent, warped or damaged blades. Regularly check the condition of the cutting blades – with the engine stopped! Replace damaged cutting blades before using the power tool. Always keep blades sharp.

Keep the handles clean and dry at all times; it is particularly important to keep them free of moisture, pitch, oil, fuel mix, grease or resin in order for you to maintain a firm grip and properly control your power tool.

STIHL recommends that you always spray the cutting blades with STIHL resin solvent before starting work – with the engine stopped! You can obtain this protective spray from your dealer. Apply generously.

Adjust harness and hand grip to suit your size before starting work. To be better prepared in case of an emergency, practice releasing the unit from the harness as quickly as possible.

## **Starting**

On machines with an adjustable cutter bar: Secure the cutter bar in the starting position as described in the chapter "Starting / Stopping the Engine." If this starting position is not the desired cutting position, you will then need to carefully adjust the machine to the desired position once the engine has returned to idle and the blades are no longer moving.

On machines with a defined transport position (cutter bar folded against the drive tube): Never start the machine in the transport position, since the blades are not engaged in that position and you therefore cannot visually check to see that they will be stopped at idle when you start to adjust the cutter bar to the desired cutting position (where the blades are engaged).

Start the engine at least 10 feet (3 m) from the fueling spot, outdoors only.

For specific starting instructions, see the appropriate section of your KombiEngine and KombiTool manuals.

Place the power tool on firm ground or other solid surface in an open area. Maintain good balance and secure footing.

### **! WARNING**

To reduce the risk of injury from loss of control, do not attempt to "drop start" your power tool.

## **! WARNING**

To reduce the risk of injury from loss of control, be absolutely sure that the cutting tool is clear of you and all other obstructions and objects, including the ground, because when the engine starts at starting-throttle, engine speed will be fast enough for the clutch to engage and move the blades on the cutting tool.

Once the engine has started, immediately blip the throttle trigger, which should release the starting throttle and allow the engine to slow down to idle.

With the engine running only at idle, attach the power tool to the spring hook of your harness (see appropriate chapter of this manual).

## **! WARNING**

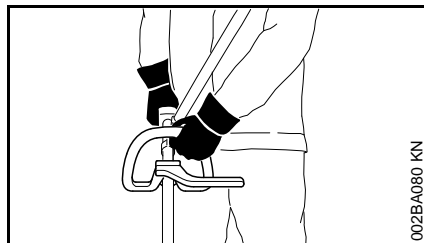
Your power tool is a one-person machine. Do not allow other persons in the general work area, even when starting.

See also the Safety Precautions on Starting in the instruction manual of the KombiEngine.

### **During Operation**

#### **Holding and Controlling the Power Tool**

Always hold the unit firmly with both hands on the handles while you are working. Wrap your fingers and thumbs around the handles.



Your right hand should grip the rear handle. This also applies to left-handers.

## **! WARNING**



Never attempt to operate your power tool with one hand. Loss of control of the power tool resulting in serious or fatal injury may result. To reduce the risk of cut injuries, keep hands and feet away from the cutting tool. Never touch a moving cutting tool with your hand or any other part of your body.

## **! WARNING**

Do not overreach. Keep proper footing and balance at all times. Special care must be taken in slippery conditions (wet ground, snow) and in difficult, overgrown terrain. Watch for hidden obstacles such as tree stumps, roots and ditches to avoid stumbling. For better footing, clear away fallen branches, scrub and cuttings. Be extremely cautious when working on slopes or uneven ground.

## **! WARNING**

To reduce the risk of injury from loss of control, never work on a ladder, in a tree or any other insecure support. Never hold the machine above shoulder height.

### **Working Conditions**

Operate and start your power tool only outdoors in a well-ventilated area. Operate it under good visibility and daylight conditions only. Work carefully.

## **! WARNING**

If the vegetation being cut or the surrounding ground is coated with a chemical substance (such as an active pesticide or herbicide), read and follow the instructions and warnings that accompanied the substance at issue.

## **! WARNING**



Inhalation of certain dusts, especially organic dusts such as mold or pollen, can cause susceptible persons to have an allergic or asthmatic reaction.

Substantial or repeated inhalation of dust and other airborne contaminants, in particular those with a smaller particle size, may cause respiratory or other illnesses. Control dust at the source where possible. Use good work practices, such as operating the unit so that the wind or operating process directs any dust raised by the power tool away from the operator. Follow the recommendations of EPA / OSHA /



NIOSH and occupational and trade associations with respect to dust ("particulate matter"). When the inhalation of dust cannot be substantially controlled, i.e., kept at or near the ambient (background) level, the operator and any bystanders should wear a respirator approved by NIOSH / MSHA for the type of dust encountered.

### Operating Instructions

#### **WARNING**

Do not operate your power tool using the starting throttle lock, as you do not have control of the engine speed.

In the event of an emergency, switch off the engine immediately – move the slide control / stop switch / momentary stop switch to **0** or **STOP**.

See section of your KombiEngine instruction manual on the proper use of the slide control / stop switch / momentary stop switch.

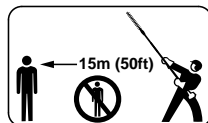
#### **WARNING**

The cutting blades continue to move for a short period after the throttle trigger is released.

Accelerating the engine while the blades are blocked increases the load and will cause the clutch to slip continuously. This may result in overheating and damage to important components (e.g. clutch, polymer housing components) – which can then increase the risk of injury from the blades moving while the engine is idling.

#### **WARNING**

On units with an adjustable cutter bar: Carefully adjust the cutter bar to the desired cutting position. To reduce the risk of injury, never touch the cutting blades while making adjustments. Only adjust the cutter bar when the blades are no longer moving.



The power tool has a large range. In order to reduce the risk of personal or even fatal injury to bystanders from falling objects or inadvertent contact with the moving cutting blades of your power tool always keep bystanders at least 50 feet (15 m) away when the power tool is running.

Stop the engine immediately if you are approached.

#### **WARNING**

Before you start work, examine the hedge area for stones, glass, fence wire, metal, trash or other solid objects which could damage the cutting blades.

Take particular care when cutting hedges next to or against wire fences. Do not touch the wire with the cutting blades. When working close to the ground, make sure that no sand, grit or stones get between the cutting blades.

Striking solid foreign objects such as stones, fence wire or metal could damage the cutting attachment and may cause blades to crack, chip or break. STIHL does not recommend the use of your power tool when cutting in areas where the blades could contact such objects.

#### **WARNING**

Observe the cutting blades at all times – do not cut any areas of the hedge that you cannot see. When cutting the top of a taller hedge, check the other side of the hedge frequently for bystanders, animals and obstructions.

#### **DANGER**



Your power tool is not insulated against electric shock. To reduce the risk of electrocution, never operate this power tool in the vicinity of any wires or cables (power, etc.) which may be carrying electric current.

#### **WARNING**

If the cutting tool becomes clogged or stuck, always shut off the engine and make sure the cutting tool has stopped before cleaning. Grass, weeds, etc. should be cleaned off the cutting tool at regular intervals.

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

- Shut off the engine.
- Wait until the cutting blades have come to a complete standstill.
- Check condition and tightness, look for cracks.
- Check sharpness.
- Replace damaged or dull cutting tools immediately, even if they have only superficial cracks.

**! WARNING**



The gearbox becomes hot during operation. To reduce the risk of burn injury, do not touch the gear housing when it is hot.

## **MAINTENANCE, REPAIR AND STORING**

**! WARNING**

Always stop the engine and make sure that the cutting attachment is stopped before doing any maintenance or repair work or cleaning the power tool. Do not attempt any maintenance or repair work not described in your KombiEngine and KombiTool instruction manuals. Have such work performed at your STIHL servicing dealer only.

Always clean dust and dirt off the machine – do not use any grease solvents for this purpose.

Spray the blades with STIHL resin solvent. Start and run the engine briefly so that the solvent is evenly distributed.

**! WARNING**

Use only identical STIHL replacement parts for maintenance and repair. Use of non-STIHL parts may cause serious or fatal injury.

Wear gloves when handling or performing maintenance on blades.

**! WARNING**

Never repair damaged cutting attachments by welding, straightening or modifying the shape. This may cause parts of the cutting attachment to come off and result in serious or fatal injuries.

Keep blades sharp. Tighten all nuts, bolts and screws, except the carburetor adjustment screws, after each use.

Do not clean your machine with a pressure washer. The solid jet of water may damage parts of the machine.

Store the power tool in a dry and high or locked location out of reach of children.

## **Using the Unit**

### **Cutting Season**

Observe country-specific or municipal rules and regulations for cutting hedges.

Do not use your hedge trimmer during rest periods customary in the neighborhood.

### **Cutting Sequence**

If a radical cut is necessary, cut a little at a time in several stages.

Use lopping shears to cut out thick branches first.

Cut the sides of the hedge first, then the top.

### **Disposal**

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

### **Preparations**

- Adjustable gearbox: Set cutter bar to required angle.
- Remove the blade scabbard.
- Starting the Engine
- Fitting the shoulder strap
- Attaching machine to shoulder strap

## Working Technique

### Horizontal Cut (with cutter bar at an angle)



Cutting close to the ground from a standing position, e.g. low shrubs.

Swing the cutter bar back and forth in an arc as you move along – use both sides of the cutting blades.

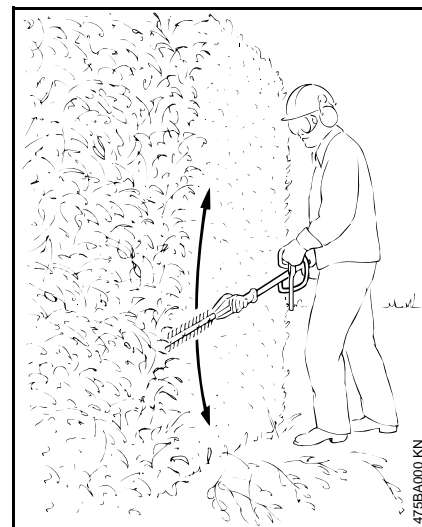
### Vertical Cut (with cutter bar at an angle)



Cutting without standing directly next to the hedge, e.g. flowerbed between operator and hedge.

Swing the cutter bar up and down in an arc as you move along the hedge – use both sides of the cutting blades.

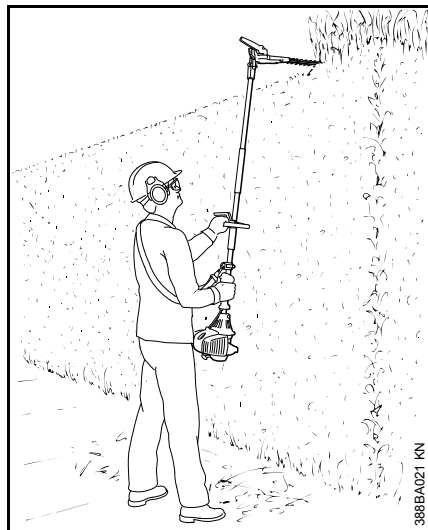
### Vertical Cut (with straight cutter bar)



Extra long reach without the need for other aids.

Swing the cutter bar up and down in an arc as you move along the hedge – use both sides of the cutting blades.

### Overhead Cut (with cutter bar at an angle)

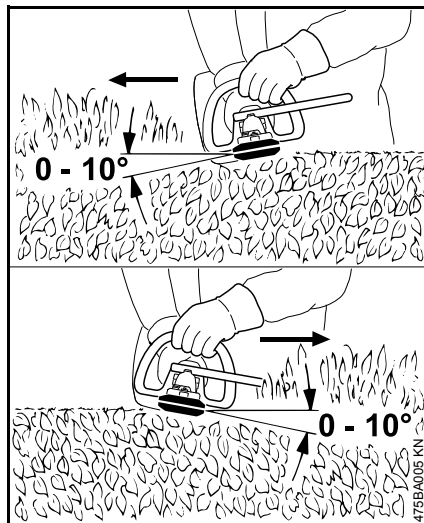


Hold the hedge trimmer vertically and swing it in an arc to make maximum use of its reach.

#### **WARNING**

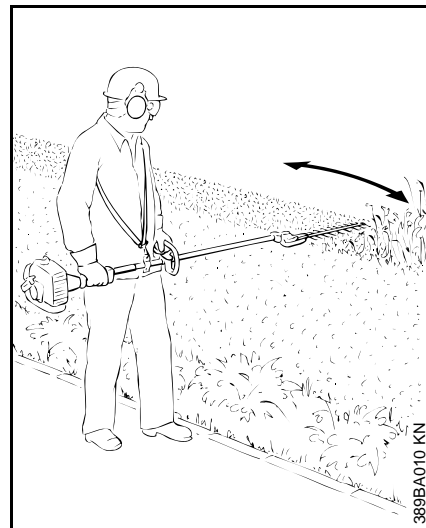
Any working position above head height is tiring. To minimize the risk of accidents, work in such positions for short periods only. Set angle of adjustable cutter bar to maximum so that the unit can be held in a lower, less tiring position (with shoulder strap) while still providing adequate reach.

### Horizontal Cut (with straight cutter bar)



Cutting without standing directly next to the hedge, e.g. flowerbed between operator and hedge.

Hold the cutter bar at an angle of  $0^\circ$  to  $10^\circ$  as you swing the hedge trimmer horizontally.



Swing the cutter bar in an arc towards the outside of the hedge so that the cuttings are swept to the ground.

Recommendation: Only cut hedges that are no more than chest height.

## Approved KombiEngines

### KombiEngines

Only KombiEngines supplied by STIHL or expressly approved by STIHL for use with the specific model are authorized.

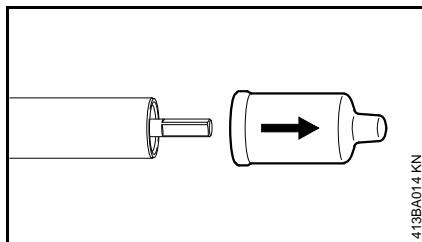
Only use this KombiTool with the following KombiEngines:

STIHL KM 55 R, KM 56 R, KM 85 R, KM 90 R, KM 94 R, KM 110 R, KM 130 R

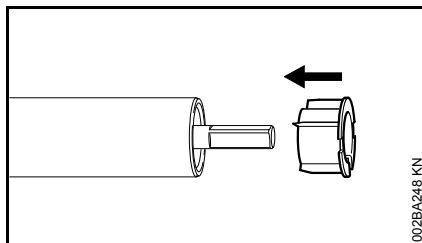
### WARNING

For machines with a loop handle, the clip (barrier bar) must be installed.

## Assembling the Unit



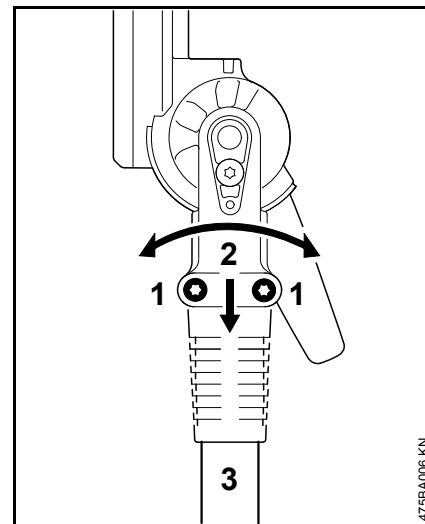
- Pull the protective caps off the ends of the drive tube and keep them in a safe place for later use – see "Storing the Machine".



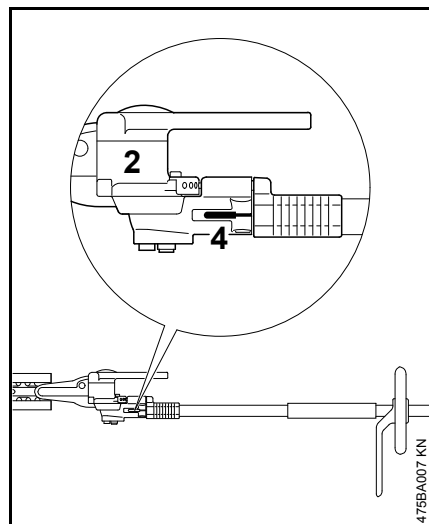
### NOTICE

The plug may come out of the drive tube when you pull off the cap. Push it back into the drive tube as far as stop.

## Mounting the Gearbox



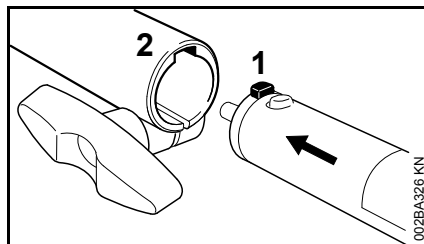
- Loosen the clamp screws (1).
- Push the gearbox (2) onto the drive tube (3), turn the gearbox (2) back and forth as necessary.



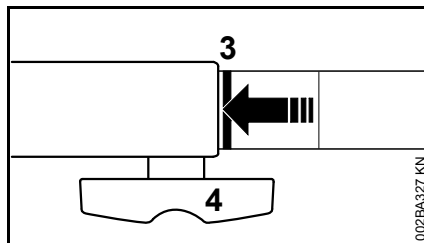
Once the end of the drive tube is inserted beyond the slot in the clamp (4):

- Push the gearbox (2) fully home as far as stop.
- Tighten down the clamp screws moderately.
- Line up the gearbox (2) on the drive tube so that the machine support on the engine points down and the blades are horizontal.
- Tighten down the clamp screws firmly.

## 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.

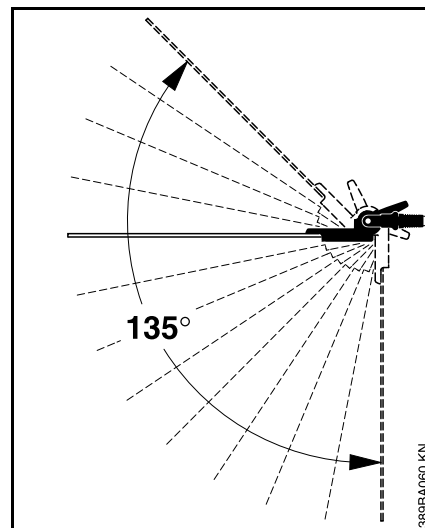
- Tighten down the star knob (4) **firmly**.

## Removing the KombiTool

- Reverse the above sequence to remove the drive tube.

## Adjusting the Cutter Bar

### 135° Version



The angle of the cutter bar can be adjusted upwards in 4 stages from 0° (straight) to 45°, and downwards in 8 stages from 0° to 90° (right angle facing down). There are therefore 13 possible working positions.

There is also a special transport position for the cutter bar.



### WARNING

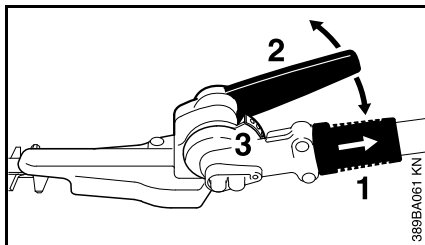
**To reduce the risk of injury**, carry out the adjustment only when the cutting blades are at a standstill – engine at idle speed.

# WARNING

The gearbox becomes hot during operation. **To reduce the risk of burn injury**, do not touch the gear housing.

# WARNING

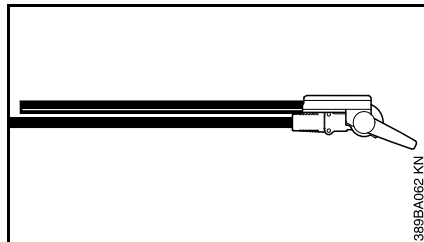
**To reduce the risk of injury**, never touch the blades while making adjustments.



- Pull back the sliding sleeve (1) and use the lever (2) to adjust the joint by one or several holes.
- Release the sliding sleeve (1) and make sure the lock pin engages the quadrant (3).

The sliding sleeve butts against the housing when the pin is properly engaged (after making adjustment).

## Transport Position



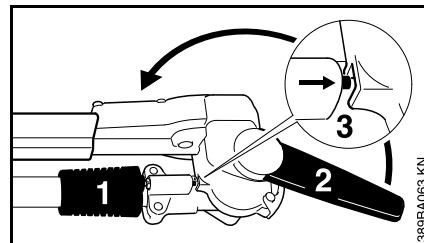
The cutter bar can be folded flat against the drive tube and locked in position to save space during transportation.

# WARNING

**To reduce the risk of injury**, always shut off the engine – move slide control to STOP or stop switch to 0 – and fit the blade scabbard before moving the cutter bar to the transport position or from the transport position to the normal working position.

# WARNING

The gearbox becomes hot during operation. **To reduce the risk of burn injury**, do not touch the gear housing.



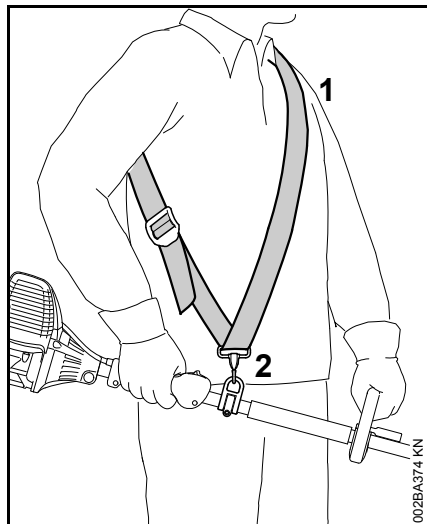
- Shut off the engine.
- Fit the blade scabbard.
- Pull back the sliding sleeve (1) and use the lever (2) to swing the joint upwards – in direction of drive tube – until the cutter bar is flat against the drive tube.
- Release the sliding sleeve (1) and make sure the lock pin engages the quadrant (3).

The sliding sleeve butts against the housing when the pin is properly engaged (after making adjustment).

## Fitting the Harness

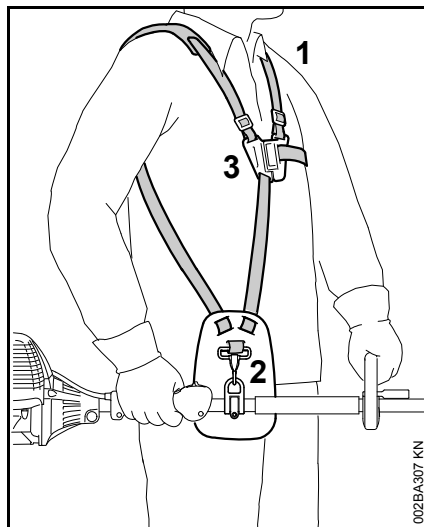
The type and style of the harness and carabiner (spring hook) depend on the market.

### Shoulder Strap



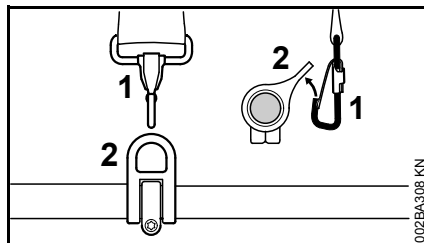
- Put on the shoulder strap (1).
- Adjust the length of the strap so that the carabiner (2) is about a hand's width below your right hip.

### Full Harness



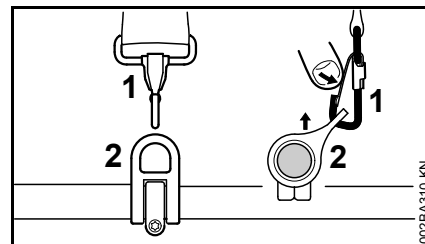
- Put on the full harness (1).
- Adjust the length of the strap so that the carabiner (2) is about a hand's width below your right hip.

### Attaching Machine to Harness



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

### Detaching Machine from Harness



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

### Throwing Off the Machine

#### **! WARNING**

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

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

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

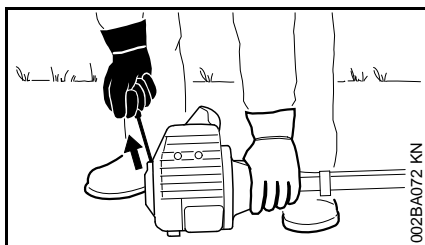
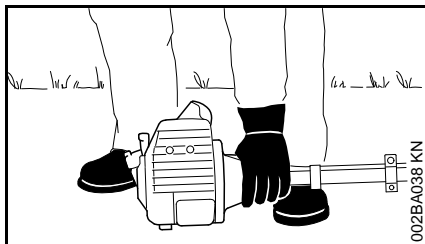
If you are using a full harness: Practice quickly opening the locking plate and slipping the harness straps off your shoulders.



## Starting / Stopping the Engine

### Starting the Engine

Always follow the operating instructions for the KombiEngine and basic power tool.



- Place the machine on the ground so that it rests securely on the engine support and the gearbox.
- On models with an adjustable cutter bar: Set the cutter bar to the straight (0°) position.
- Remove the blade scabbard.

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

- If necessary, rest the gearbox on a raised support (e.g. mound, brick or something similar).
- Make sure you have a firm footing, either standing, stooping or kneeling.
- Hold the machine with you left hand and press it down **firmly** – do not touch the controls on the control handle – see KombiEngine or basic power tool instruction manual.

### NOTICE

Do not stand or kneel on the drive tube.

### ! WARNING

The cutting attachment may begin to move as soon as the engine starts. For this reason, blip the throttle after starting – the engine returns to idling speed.

The starting procedure is now as described in the instruction manual of the KombiEngine or basic power tool you are using.

### Stopping the Engine

- See instruction manual of the KombiEngine or basic power tool.

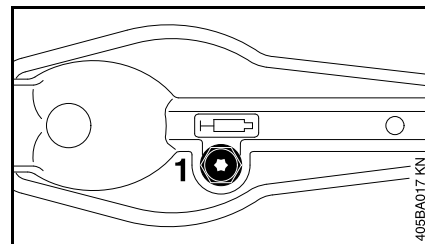
## Lubricating the Gearbox



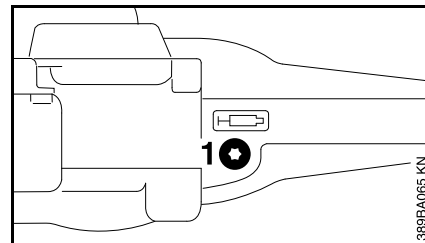
### Blade Drive Gear

Lubricate the blade drive gear with STIHL gear lubricant for hedge trimmers (Special Accessory).

#### 0° version



#### Adjustable 135° version



- Check the lubricant level at regular intervals of about every 25 hours of operation. Unscrew the filler

plug (1) – if no grease can be seen on the inside of the filler plug, screw the tube of grease into the filler hole.

- Squeeze up to 5 g (1/5 oz) grease into the gearbox.

### NOTICE

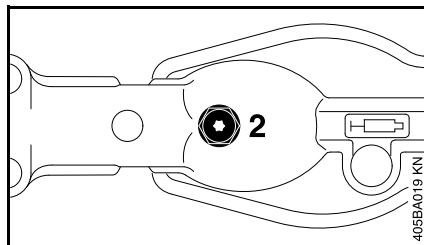
Do not completely fill the gearbox with grease.

- Refit the filler plug and tighten it down firmly.

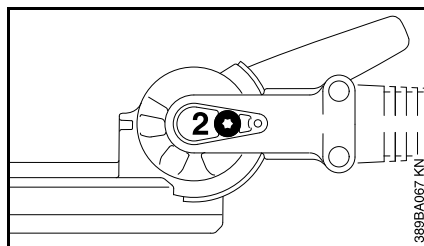
### Angle Drive

Lubricate the angle drive with STIHL gear lubricant for brushcutters (Special Accessory).

### 0° version



### Adjustable 135° version



- Check the lubricant level at regular intervals of about every 25 hours of operation. Unscrew the filler plug (2) – if no grease can be seen on the inside of the filler plug, screw the tube of grease into the filler hole.
- Squeeze up to 5 g (1/5 oz) grease into the gearbox.

### NOTICE

Do not completely fill the gearbox with grease.

- Refit the filler plug and tighten it down firmly.

## Storing the Machine

For periods of 3 months or longer

- Clean the cutting blades, check condition and spray them with STIHL resin solvent.
- Fit the blade scabbard.
- 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.

## 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.

### All accessible screws and nuts

- Check and retighten if necessary (not screws and nuts on cutting blades)

### Cutting blades

- Visual inspection before starting work
- Resharpener as necessary
- Replace if damaged

### Gearbox lubrication

- Check before starting work
- Replenish as necessary

### Safety labels

- Replace illegible safety labels

## Sharpening Instructions

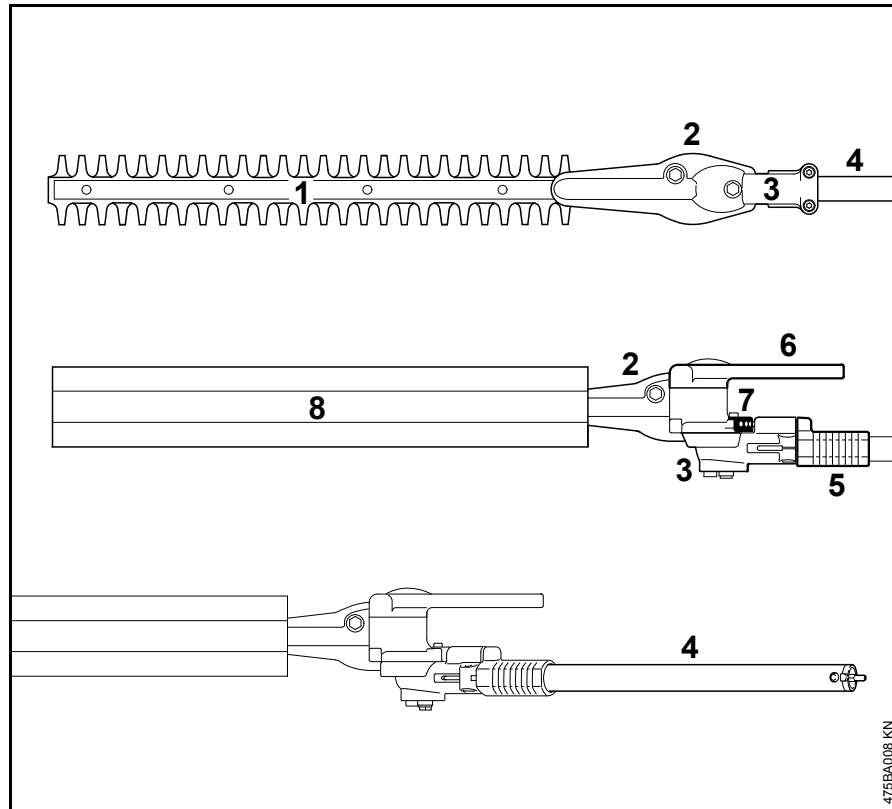
When cutting performance and behavior begin to deteriorate, i.e. blades frequently snag on branches: Resharpener the cutting blades.

It is best to have the cutting blades resharpened by a dealer on a workshop sharpener. STIHL recommends a STIHL servicing dealer.

### **NOTICE**

Do not operate your machine with dull or damaged cutting blades. This may cause overload and will give unsatisfactory cutting results.

## Main Parts



- 1 Cutting Blades
- 2 Blade Drive Gear
- 3 Angle Drive
- 4 Drive Tube
- 5 Sliding Sleeve
- 6 Adjusting Lever
- 7 Quadrant
- 8 Blade Scabbard

## Definitions

- 1 Cutting Blades**  
Steel blades for cutting hedges and shrubs.
- 2 Blade Drive Gear**  
Converts rotary movement of angle drive into reciprocating movement of cutting blades.
- 3 Angle Drive**  
Transmits rotary motion of drive shaft to the blade drive gear.
- 4 Drive Tube**  
Encloses and protects the drive shaft between the coupling sleeve and gearbox.
- 5 Sliding Sleeve**  
Locks and unlocks the cutter bar adjusting mechanism.
- 6 Adjusting Lever**  
Used to set cutter bar to the required angle.
- 7 Quadrant**  
Locks the cutter bar in the required position.
- 8 Blade Scabbard**  
Covers cutting blades when hedge trimmer is not in use.

## Specifications

### Cutting Blades

Type:	Double-edged for bidirectional cutting
Cutting length:	500 mm (19.685 in.)
Tooth spacing:	35 mm (1.378 in.)
Tooth height:	20 mm (0.787 in.)
Sharpening angle:	45° to horizontal


### Weight

HL-KM 0°:	1.8 kg (4.0 lbs.)
HL-KM 135°:	2.6 kg (5.7 lbs.)

## Maintenance and Repairs

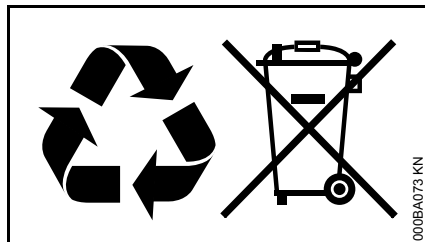
Users of this unit should carry out only the maintenance operations described in this manual. STIHL recommends that other repair work be performed only by authorized STIHL servicing dealers.

Warranty claims following repairs can be accepted only if the repair has been performed by an authorized STIHL servicing dealer using genuine STIHL replacement parts.

Genuine STIHL parts can be identified by the STIHL part number, the **STIHL** logo and, in some cases, by the STIHL parts symbol . The symbol may appear alone on small parts.

## Disposal

Observe all country-specific waste disposal rules and regulations.



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

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

## Trademarks

### STIHL Registered Trademarks

STIHL®  
**STIHL®**  


The color combination orange-grey  
(U.S. Registrations #2,821,860;  
#3,010,057, #3,010,058, #3,400,477;  
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