Manual de instrucciones 44 - 92 Instruction Manual





WARNING

Manual de instrucciones Instruction Menual

STIHL HT 102, 103, 132, 133

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 pnearaciones de

seguridad dadas en el manual de
instrucciones – el teso incorrecto
puede causar lesiones graves o

mortales.

English

# Guide to Using this Manual

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

described in this manual, please contact your STIHL dealer or the STIHL distributor for your area for assistance.

Loosen the screw (1).

Lever (2) ...

### Pictograms

The meanings of the pictograms attached to or embossed on the machine are explained in this manual. Depending on the model concerned, the following pictograms may be on your

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



Fuel tank for gasoline and engine oil mixture

DANGER

Tank for bar and chain oil

Indicates a hazardous situation that, if not avoided, will result in death or serious injury.

WARNING

Direction of chain rotation

Indicates a hazardous situation that, if not avoided, could result in death or

8

NOTICE serious injury.

Press to operate manual fuel pump

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

Manual fuel pump

D

Symbols in Text

STIHL's philosophy is to continually improve all of its products. As a result, Engineering Improvements

Many operating and safety instructions are supported by illustrations. The individual steps or procedures described in the manual may be marked

A bullet marks a step or procedure.

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

HT 102, HT 103, HT 132, HT 133

### Contents

Cutting Attachment Using the Unit Mounting the Bar and Chain Guide to Using this Manual Safety Precautions and Working Techniques

Tensioning the Chain Checking Chain Tension Adjusting the Throttle Cable

Fuel Fitting the Clip

Filling Chain Oil Tank Checking Chain Lubrication 17 18 19 20 20 22 22 22 23 23

Chain Lubricant

Trademarks

Disposal
STIHL Incorporated Federal
Emission Control Warranty
Statement Maintenance and Repairs

Main Parts

Allow only persons who fully understand this manual to operate your pole pruner

English

To receive maximum performance and satisfaction from your STHL pole pruner, it is important that you read, understand and follow the safety precautions and the operating and manifestance instructions in chapter "Safety Precautions and Working Techniques" before using your pole pruner. For further information you can go to www.stihlusa.com.

WARNING

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

Because a pole pruner is a high-speed, fast-culting power too with an extended reach, special safety precautions must be observed to reduce the risk of personal injury. Careless or improper use may cause sorious or even fatal injury.

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Maintenance and Care

HT 102, HT 103, HT 132, HT 133 STIHL Checking and Replacing the Chain Sprocket

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Storing the Machine Spark Plug

Spark Arresting Screen in Muffler Engine Management Adjusting the Carburetor Replacing the Air Filter Taking Care of the Guide Bar Operating Instructions Maintaining and Sharpening the Saw Chain Starting / Stopping the Engine Backpack Carrying System Fitting the Harness Adjusting the Telescoping Shaft

27 30 31 31 32 32 32 34

exposure to vibration are mentioned as factors in the development of whitelinger disease. In order to reduce the risk of whitelinger disease and carpat tunnel syndrome, please note the following:

- Most STIHL, power tools are available with an anti-wbration ("AV") system designed to educe the transmission of vitrations created by the machine to the postatot's hands. An AV system seconnended for those persons recommended for those persons sustained basis on a regular or sustained basis.
- Wear gloves and keep your hands
- Keep the AV system well maintained. A power tool with loose components or with damaged or worn AV elements will tend to have higher vibration levels.
- frequent breaks. constant, excessive pressure. Take Maintain a firm grip at all times, but do not squeeze the handles with

All the above-mentioned precautions do not judraintee that you will not sustain whilefinger disease or carpal tunnel syndrome. Therefore, continual and regular users is should closely monitor the condition of their hands and fingers. If any of the above symptoms appear, seek medical advice immediately. WARNING

The ignition system of the STIHL unit produces an electromagnetic field of a very low intensity. This field may interfere with some pacemakers. To reduce the risk of serious or tratal injury, persons with a pacemaker should

consult their physician and the pacemaker manufacturer before operating this tool.

## Proper Clothing

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

To reduce the risk of injury to your eyes never operate your power tool unless wearing goggles or properly fitted protective glasses with WARNING



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



Wear an approved safety hard hat to reduce the risk of injury to your head. goggles or protective glasses.

## THE POWER TOOL

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

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

THE OPERATOR HT 102, HT 103, HT 132, HT 133

## Physical Condition

Do not cut any material other than wood or wooden objects. Use your pole pruner for limbing only.

Safety Precautions and Working Techniques

WARNING

Because a pole pruner is a high-speed, fast-cut in fing power tool with an extended reach, special safely precautions must be observed to reduce the risk of personal injury.

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, dextently or judgment. Do not operate this machine when you are fatigued.

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

### WARNING

Be alert – if you get tred, take a breek.
Tredness 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

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

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

## WARNING

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

Prolonged use of a power tool (or other machines) exposing the operator to vibrations may produce whitefinger disease (Raynaud's phenomenon) or carpal tunnel syndrome.

These conditions reduce the hand's ability to feel and regulate temperature, produce numbness and burning sensations and may cause nerve and circulation damage and tissue necrosis.

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

A WARNING

WARNING

Most of these safety precautions and warnings apply to the use of all STIHL, pole pruners. Different models may have different parts and controls. See the appropriate section of your instruction manual for a description of the controls and the function of the parts of your model. All factors which contribute to whitefinger disease are not known, but cold weather, smoking and diseases or physical conditions that affect blood vessels and blood transport, as well as high vibration levels and long periods of high vibration levels and long periods of

The use of this machine may be hazardous. The pole pruner chain has many sharp cutters. If the cutters contact your flesh, they will cut you, even if the chain is not moving.

3. the use of the power tool 2 the power tool 1. the operator Safe use of a pole pruner involves

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

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





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

Good footing is very important. Wear sturdy boots with nonslip soles. Steel-toed safety boots with cut retardant inserts

English

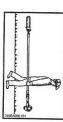
## MARNING WARNING

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

If this tool is subjected to unusually high loads forwhich It was not designed (e.g. heavy impact or e shi), always check that it is no pood condition before continuing work. Check in particular that the fuel system is tight (no leask) and that the controls and safety devices are working properly. Do not continue, operating this machine it it is damaged. In case of douch invested devices of the controls are stronged on cases of douch invested the system.

THE USE OF THE POWER TOOL

# Transporting the Power Tool



This power tool should be carried only in a horizonal position. Grip the shaft in a manner that the machine is belanced horizontally, feep the hot muffler away from your body and the cutting attachment behind you.

Accidental acceleration of the engine can cause the chain to rotate and cause serious injuries. WARNING

Always switch off the engine and fit the scabbard over the culting attachment before transporting the power tool over tong distances. When transporting it is a vehicle, properly secure it to provent tumover, fuel spillage and damage to the curity. the unit.

## WARNING

manual).

Your STIHL power tool uses an oil-gasoline mixture for fuel (see the chapter on "Fuel" in this instruction

Gasoline is an extremely flammable that, if spilled and ignited by a spark on other ignition source, it can cause fire and serious burning the course fire and serious burning or the course fire and serious burning or the serious burning or the serious fire and serious burning or the serious burning or the serious burning or the serious seri

property damage. Use extreme caution when handling gasoline or theil mix. Do not smoke or bring any fite or flame near the fuel or the power tool. Note that combustible fuel vapor may be seage from the fuel system or gas can during fueling operations.

### A WARNING

WARNING

## WARNING

To reduce the risk of fuel spillage and fire from an improperly installed fuel cap, correctly position and tighten the fuel

### WARNING

WARNING cap in the fuel tank opening.

WARNING

Take off the chain guard (scabbard) and inspect the pole pruner for proper condition and operation. (See the maintenance chart in this instruction

Before Starting

manual.)

Unit vibrations can cause an improperly installed that filler cap to losse nor come off and spill quantilises of flue! In order to reduce the risk of flue! spillage and fire, tighten the fuel filler cap by hand as securely as possible.

Check that the spark plug boot is securely mounted on the spark plug – a loose boot may cause arcing that could ignite combustible furnes and cause a

For proper assembly of the bar and chain follow the procedure described in the chapter "Mounting the Bar and Chain" of your instruction manual.

Check fuel system for leaks, especially the visible parts, e.g., filler cap, hose connections, manual fuel pump (only for power tools equipped with a manual fuel pump). To reduce the risk of personal injury or properly damage from fire, do not start the engine if there are leaks or damage. Have the marchine repaired by a servicing dealer before using it.

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

See also the "Fueling" chapter in this instruction manual for additional

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

Check for hel leakage while reflering and during operation. If hel leakage is found, do not start or run if the leak is fixed and any leaked fuel has been whole away. Take care not to get fuel on your cotoling, if his happens, change your cothing immediately.

Aways check your power tool for proper condition and operation before starting, particularly the throate trigger, frontle trigger fockout, stop switch and cutting attachment. The throate trigger must move freely and always spring back to the dile position. Newer attempt to the position, where attempt to

gauge and pitch.

STIHL Oilomatic chain, guide bar and sprocket must match each other in

## MARNING

Proper chain tension is extremely important. In order to avoid improper esting, the tensioning procedure must be followed as described in your manual. Always make sure the hear mul(s) for the sprocket cover is (are) tightened security after tensioning the chain. Check chain tension once more after having tightened the nut(s). Never start the pole pruner with the sprocket cover loose.

Adjust carrying harness and hand grip to suit your size before starting work.

To reduce the risk of serious personal injury from fire, start the engine at least 10 feet (3 m) from the fueling spot, outdoors only.

Start and operate your pole pruner without assistance.

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

appropriate section of your manual.

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English

### WARNING Fueling instructions

operator. To reduce the risk of serious burn injury, never attempt to refuel the unit until it has been completely removed from the

## WARNING

Fuel your machine in well-ventitated areas, outdoors. Always shut off the engine and allow it to cool before refueling. Gasoline vapor pressure may brid up inside the fuel tank depending on the fuel used, the weather or other environmental conditions and the use of the machine.

In order to reduce the risk of burns and other personal rijuly from escaping gas vapor and turnes, remove the fuel filler cap on your power root carefully so as to allow any pressure build-up in the tank to release slowly. Never remove the tale filler cap while the engine is running.

Select bare ground for fueling and move at least 10 feet (3 m) from the fueling spot before starting the engine. Wipe off any spilled fuel before starting your machine.

## WARNING

WARNING

In order to properly control your pole purer, always maintain good balance and a firm bothold. Never work on a ladder, in a tree or on any other insecure support. Never hold the machine above shoulder height. Do not overreach. When working at a height above 15 feet (4,5 m) use a lift burdet. For pole pruner with adjustable sharft, expand the shaft only se fer as necessary for the intended and control of the sharft only as the shaft only se fer as necessary for the intended

Special care must be taken in slippery conditions (wet ground, snow) and in difficult, overgrown terrain. Watch for hidden obstacles such as tree stumps. slopes or uneven ground. roots, rocks, holes and ditches to avoid stumbling. For better footing, clear away fallen branches, scrub and cuttings. Be extremely cautious when working on WARNING

## WARNING

Take extreme care in wet and freezing weather (rain, snow, ice). Put off the work when the weather is windy, stormy or rainfall is heavy.

## Worlding 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.

borzene) and carbon monoxide Intal are from the Int As soon as the engine is running, this machine generates toxic exhaust furnes containing chemicals, such as unburned hydrocarbons (including

ventilation, clear obstruc-tions from work area to permit proper ventilation before proceeding and / or take frequent breaks to allow furnes to dissipate before they become concentrated. employer or a local OSHA

Broathing activations dues its drangemous and can cause severe or faird injury respiratory littless or canner. The use and disposal of absestud-combining products have been strictly regulated by OSHA and the Environmental Protection Agency III you have any reason to before that you might be outling absestus, immediately contact your absestus, immediately contact your

## MARNING

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

inhaling toxic furnes, never run the machine indoors or in poorly ventilated locations. If exhaust furnes become concentrated due to insufficient recommendations or Land trade NIOSH and occupational and trade associations with respect to dust ("particulate matter"). When the Substantial or repeated inhalation of dust and other airborne contaminants, in particular those with a smaller particular size, may cause respiratory or other lifessess. This includes wood dust, especially from hardwoods, but also from some softwoods such as Western Red Cedar. Comford dust at the source where possible. Use good work practices, such as sharps cutting with a property sharpened chain (which property s inhalation of dust cannot be substantially controlled, i.e., kept at or near the armbent (background) level, the operator and any bystanders should wear a respirator approved by MOSH/ MSHA for the type of dust encountered. dust raised by the power tool away from the operator. Follow the produces wood chips rather than fine dust) and operating the unit so that the wind or operating process directs any WARNING

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ö

# 317

Place the pole pruner on firm ground or other solid surface in an open area or, in the alternative, as shown in the above picture. Maintain good balance and secure footing.

## WARNING

To reduce the risk of injury from loss of control, do not alternit to 'drop start' your power too! Drop starting means pushing the rachine away from the operator, or allowing the drop loward the ground, while pulling on the starter grip. This method is way dangerous tecauses you may lose control of the

### WARNING

To reduce the risk of injury from loss of control be absolutely sure that the guide bar and chain are clear of you and all other obstructions and objects, including the ground, because when the engine sants at starting-through, engine speed will be fast enough for the clutch to engage the sprocket and furn the chain.

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

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To reduce the risk of personal injury from loss of control or contact with the naming cuting look, do not use your unit with incorrect (life adjustment. At correct idle speed, the saw chain should not move. For directions on how to adjust idle speed, see she appropriate section of your instruction manual.

When you pull the starter grip, do not wrap the starter ope around your hand. Do not let the gry anap hack, but guide the starter rope to permit the rope to rewind properly. Failure to follow this procedure may result in ripiny to your hand or frigers and may damage the starter merbhanism. 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

### WARNING Important Adjustments

If you cannot set the correct idle speed, have your STIHL dealer check your power tool and make proper adjustments and repairs.

Proper chain tension is very important at all times. Check it at regular intervals (during work breaks and only when the pole pruner is shut off), if the chain becomes loose while cuting, switch off the engine and then lighten. Never try to lighten the chain while the engine is running.

# Holding and Controlling the Power Tool

**During Operation** 

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



Place your left hand on the shaft and your right hand on rear gip and throttle trigger. Left-handers must follow these instructions, too. Keep your hands in this position to help maintain control of your pole pruner while working at all times.

## 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.

## WARNING

In order to reduce the risk of personal or even fiaal injury to bystanders from failing objects or inadverient contraler with the moving chain of your power tool always keep bystanders at least 50 feet (15 m) away when the power tool is



Stop the engine immediately if you are approached. Even though bystanders should be kept away from the running saw, never work alone. Keep within calling distance of others in case help is needed.



### DANGER

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

Beciricly can jump from one point to arother by means of aroing, Higher voltage increases the distance electricity can are. Bectricity can also move through branches, especially if they are wet. Maintain a clearance of at least 50 feet (15 m) beaven the pole purer (including any branches it is contacting) and any electrical line carrying live current. Before working with less clearance contact your electric utility and make sure the current is turned off.

## Operating instructions

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

## WARNING

To reduce the risk of cut injuries, keep hands and feet away from the saw chain. Never touch a moving chain with your hand or any other part of your body.

## A WARNING

recommends having your muffler serviced and repaired by a STIHL servicing dealer.

WARNING

it could snap and fall toward the operator

English

while being cut. Also look for broken or dead branches which could whatle loose and fall on the operator. If tranch is thick or heavy, make a shallow relief out on the bottom of the branch before cutting down from the top to help prevent splitting of the branch. See chapter on "Using the Unit". Aways pull the unit out of the cut with the chain running to reduce the possibility of pinching the outing attachment. Don't put pressure on the pole pruner when reaching the end of aut. The pressure may cause the bar and creating the and to popular the popular popular to popular the cut of cantrol and stinks some

LXX.

## WARNING

substances

WARNING

If the bar becomes pinched and caught in the branch so that the chain can no longer move, shut off the pole pruner and carefully move the branch to open the pinch and release the bar.

The muffer and other parts of the engine (e.g. fins of the optimider, spark plug) become hot during operation and remain hot lor a while after stopping the engine. To reduce risk of horms, do not louch the muffler and other parts while they are hot. Keep the area around the muffler clean. Remove excess lubricant and all debts such as pine needles, branches or leaves. Let the engine cool down stiffing on concrete, metal, bere ground or sold wood (e.g. the trunk of a felled tree) away from any combustible subthances.

Flammable materials can include dry vegetation and brush, particularly when weather conditions are hot and dry. When there is a risk of fire or wildrie, do not use a power tool around flammable materials or around dry vegetation or brush. Contact your local fire authorities or the U.S. Forest Service if you have any question about whether vegetation and weather conditions are suitable for the use of a note a prurer. the use of a pole pruner. If a rotating saw chain strikes a rock or other hard object, sparks may be created, which can ignite flammable materials under certain circumstances.

An improperly mounted or damaged cylinder housing or a damaged/deformed muffler shell may interfere with the cooling process of the muffler. To reduce the risk of fire or burn

cylinder housing or a damaged/deformed muffler shell

damaged or improperly mounted injury, do not continue work with a

## WARNING

To reduce the risk of severe or even fatal injury from falling objects do not cut vertically above your body. Hold the pole pruner at an angle of not more than 60° from the horizontal level (see picture).

A WARNING

Never modify your muffler. Any modification could cause an increase in heat radiation, sparks or sound level, thereby increasing the risk of fire, burn injury or hearing loss. You may also permanently damage the engine. STIHL

Watch for falling wood! As soon as the limbed branch starts to fall; step aside and keep a sufficient distance away from the falling wood.

Objects may fall in unexpected directions. Do not stand directly underneath the limb being cut!

Your multier is furnished with a spark arresting screen designed to reduce the risk of life from the emission of hot particles. Never operate your unit with a missing or charaged spark arresting a screen, if your gasfoll mix railu is correct (i.e., not too norb), this screen with its core will remainly stay clean as a result of the heat from the multier and need no envice or maintenance. If you experience has so feoformance and you experience has so feoformance and you support a clogged screen, have your

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## MARNING

In the event of an emergency, switch off the engine immediately by pressing the stop switch.

The saw chain continues to move for a short period after the throttle trigger is released (inertia effect).

Accelerating the engine while the chain is blocked increases the load and will cause the older to sip continuously. This may result in overheating and damage to important components (e.g. outpt.), polymer housing components) which can then increase the risk of njuy from the chain moving while the engine

## A WARNING

is idling.

If the chain becomes clogged, always turn off the engine and make sure the chain has stopped before cleaning.

Make sure that the saw chain does not touch any foreign materials such as rocks, fences, nails and the like. Such objects may be flung off and injure the operator or bystanders, or damage the saw chain.

### WARNING

Prior to limbing, clear the working area from interfering limbs and brush. Then, establish an escape area away from where the cut limbs can fall, and remove all obstacles.

Keep work area clear – move away fallen limbs. Place all tools and equipment at a safe distance from the branches being limbed, but not in the

## WARNING

Always observe the general condition of the tree. Look for decay and rot in the trunk and branches. If it is rotted inside,

operator. Pushback frequently occurs when the top of the bar is used for cutting.

## To Avoid Pushback

- Be alert to forces or situations that may cause material to pinch the chain at the top of the bar.
- Do not twist the bar when withdrawing it from an underbuck cut because the chain can pinch. Do not cut more than one limb at a time.

MAINTENANCE, REPAIR AND

## Maintenance, replacement, or repair of the emission control devices and systems may be performed by any nonroad ergine repair establishment or individual. However, if you make a warranty claim for a component which has not been ear-hold or maintained properly. STIHL may deny coverage. WARNING

Strictly follow the maintenance and repair instructions in the appropriate sections of this instruction manual. Please refer to the maintenance chart in this manual. STIHL recommends the use of STIHL replacement parts for maintenance and repair. Use of parts manufactured by others may be extremely dangerous and could result in serious or fatal injury.

loose connection between spark plug terminal and the ignition wire connection the boot may create arting that could ignite combustible furnes and cause a fire. Keep the spark plug clean and cantificant the ignition lead is in good condition. To reduce the risk of fire and turn injury or properly damage, use only spark, plugs authorized by STHL. Aways: press spark fulley boot snuty onto spark plug terminal of the proper size (Note If terminal has deschable SAE autpur nut. it must be socurely alrached.) A Always stop the engine and make sure that the chain 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 this instruction manual. Wear gloves when handling or performing maintenance on the cutting STIHL recommends that you have such work performed by your STIHL servicing WARNING

## WARNING

Never test the ignition system with the ignition wire boot removed from the spark plug or with a removed spark plug, since uncontained sparking may cause a fire.

WARNING

WARNING

governmental entities/agencies, such as the U.S. Forest Service, may have similar requirements. Contact your local fire agency or forest service for the laws or regulations relating to fire protection In California, it is a violation of § 4.442 or § 9.443 of the Public Resources Code to use or operate gasoline-powered tools on forest-covered brush-covered or grass-covered land unless the engine's subdust system is equipped with a complying spark arrester that is maintained in effective working order. The owner/logicalizer of this product is received. responsible for properly maintaining the spark arrester. Other states or

Keep the chain, bar and sprocket clean, replace worn sprockets or chains. Keep the chain sharp, You can spot a dull chain when easy-to-cut wood becomes hard to cut or burn marks appear on the wood. Keep chain at proper tension.

Tighten all nuts, bolts and screws except the carburetor adjustment screws after

4

branch

To avoid tearing the bark on thick branches, always start by performing a relieving cut (1) on the underside of the

nuffler maintained by a STHL servicing dealer. Some state or federal laws or regulations may require a properly maintained spark arrestor for certain uses. See the Maintenance, Repair and Storing 'section of these Safety Precautions. Remember that the risk of a brush or forest file is greater in hot or forest file is greater in hot or dry conditions

## Reactive Forces

# WARNING

Reactive forces may occur any time the chain is rotating. The force used to cut wood can be reversed and work against the operator, if the rotating chain is suddenly stoped by contact with any solid object such as a branch or is prinched, the reactive forces may occur instantly. These reactive forces may occur instantly. These reactive forces may assuit in loss of control, which, in turn, may cause personal injury. An understanding of the causes of these reactive forces may help you avoid the element of surprise and loss of control. The reaction of the cutting force of the chain causes a rotational force on the pole pruner in the direction opposite to the chain movement. This may cause the bar to move upward.

Because of the design of the pole pruner, the reactive forces experienced when working with it are generally not as severe as those encountered with a chainsaw. Neverlaetes, you should always maintain a proper gip and good footing to control the power tool when you experience such forces. þ Never let the nose of the guide bar contact any object. Do not cut limbs with the nose of the guide bar, Be especially careful near wire fences and when cutting small, ough limbs, which may easily catch the note.

 kickback, The most common reactive forces are:

pushback,

pull-in.

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3. Cut only one limb at a time A = Pull-In

Kickback may occur when the moving saw chain near the upper quadrant of the bar nose contacts a solid object or is pinched.



pruner lorward. eaction of the chain pulls the pole

Always start a cut with the chain

rotating at full speed.

Pushback occurs when the chain on the top of the bar is suddenly stopped when it is pinched, caught or encounters a foreign object in the wood. The reaction of the chain may drive the pale puner rapidly straight back toward the



Pull-in occurs when the chain on the bottom of the bar is suddenly stopped when it is pinched, caught or encounters a foreign object in the wood. The

Pull-in frequently occurs when the chain is not rotating at full speed before it contacts the wood.

To Avoid Pull-in



Do not operate your power tool if the muffler is damaged, missing or modified. An improperly manhained muffler will increase the risk of fire and hearing loss. Your muffler is equipped with a spak-arresting screen to reduce the risk of fire, never operate your power tool if the screen is missing, damaged or chopped. Remember that the risk of a bush or forest fire is greater in hot or dry weather.

## WARNING

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2

Be alert to forces or situations that may cause material to pinch the chain at the bottom of the bar.

The best protection from kickback is to avoid kickback situations:

Be aware of the location of the guide bar nose at all times.

To Avoid Klddback

B = Pushback

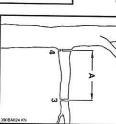


English



To avoid pinching the bar in the cut, position the cutting attachment with the housing against the branch and then perform the cross-cut from the top

### Relieving cut



perform undercut (3) and then cross-cut at a distance of about 20 cm/8 in (A) from the final cut. Then carry out the flush-cut (4), starting with a relieving cut and finishing with a cross-cut.

If branch diameter is more than 10 cm (4 in), first

W.

## Using the Unit

Always hold the shaft with your left hand in the area of the handle hose.

K

HT 102, HT 132

English

For maintenance items please also refer to the maintenance chart in this manual

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. **Preparations** 

Before storing for longer than a few days, always empty the fuel tank. See chapter "Storing the machine" in this

Store fuel and chain oil in approved and properly labeled safety-type canisters only. Take care when handling gasoline! Avoid direct contact with the skin and avoid inhaling fuel vapor!

### Start the engine. Adjust telescoping shaft to the required length (HT 103, HT 133 Wear suitable protective clothing, observe safety precautions.

Put on the shoulder strap.

FAR

max

To allow branches to free fall, always cut the lower branches first. Prune heavy branches (large diameter) in several

### WARNING

The shaft should always be held at an angle of 60° or less. The least tiring working position is a tool angle of 60°.

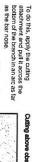
Never stand directly underneath the branch you are cutting – be wary of falling branches. Note that a branch may spring back at you after it hits the ground risk of injury.

Any lesser angle may be used to suit the situation.

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

Hold the control handle with your right hand, and the shaft with your left hand. Your left arm should be extended to the most comfortable position.

## Cutting above obstacles





Flush-cutting thick branches

Perform the cross cut (2) - position the bar with the housing against the

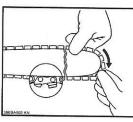
The machine's long reach makes it possible to prune branches that are overhanging obstacles, such as rivers or lakes. The tool angle in this case depends on the position of the branch.

## Cutting from a lift bucket



The machine's long reach enables cuting to be performed next to the funnik without the risk of the lift bucket damaging other branches. The tool angle in this case depends on the position of the branch.

English



## WARNING

Wear work gloves to protect your hands from the sharp cutters.

Fit the chain – start at the bar nose.



- Fit the guide bar over the screw (3) and engage peg of tensioner slide in the hole (4) place the chain over the sprocket (5) at the same time.
- Turn the tensioning screw (1) counterclockwise until there is very little chain sag on the underside of the bar and the drive link tangs are
- Refit the sprocket cover and screw on the nut fingertight.
- Go to chapter on "Tensioning the Saw Chain".





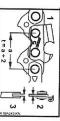
- Shut off the engine.
- Loosen the nut.

engaged in the bar groove.

- Use a screwdriver to turn the tensioning screw (1) counterclockwise until the chain fits snugly against the underside of the har.
- While still holding the bar nose up, tighten down the nut firmly.
- A new chain has to be re-tensioned more often than one that has been in

## **Cutting Attachment**

A cutting attachment consists of the saw chain, guide bar and chain sprocket. the pole prune The cutting attachment that comes standard is designed to exactly match



The pitch (t) of the saw chain (1), chain sprocket and the nose sprocket of the Rollomatic guide bar must match.

If non-matching components are used, the cutting attachment may be damaged beyond repair after a short period of The drive link gauge (2) of the saw chain (1) must match the groove width of the guide bar (3).

## Chain scabbard



attachment. Your pole pruner comes standard with a chain scabbard that matches the cutting

If you use guide bars of different lengths on the pole pruner, the length of the chain scabbard must be matched to the guide bar to reduce the risk of injury, it should cover the full length of the guide

The length of the matching guide bars is marked on the side of the chain

Removing the Chain Sprocket Cover



Unscrew the nut and remove the chain sprocket cover.

Turn the screw (1) clockwise until the tensioner slide (2) butts against the right end of the housing slot.

# Tensioning the Chain



Re-tensioning during cutting work:

- Hold the bar nose up.
- bar.
- Go to "Checking Chain Tension".
- use for some time.

Check chain tension frequently - see chapter on "Operating Instructions".

HT 102, HT 103, HT 132, HT 133

8

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# Mounting the Bar and Chain





English

WARNING

Your engine requires a mixture of high-quality gasoline and two-stroke air This engine is certified to operate on unleaded gasoline and the STIHL two-stroke engine oil at a mix ratio of 50:1.

Take are when hardling gasoline. And direct contact with the skin and avoid inhaling but leptor. When filling at the purity, list remove the container from your which gand place the container on the ground before filling. In reduce the risk of sports from said; for reduce the risk of sports from said; of explosion, do not fill fuel containers that are stiffing in or on a vehicle or trailer.

cooled engine oil. To reduce the risk of personal rijury from loss of control and / or contact with the running outling tool, do not use your unit with incorrect idle adjustment. At correct idle speed, the autting tool should not move.

Use mid-grade unleaded gasoline with a minimum octane rating of 89 ((R+M)/2) and no more than 10% ethanol content. and damage to the engine Fuel with an octane rating below 89 may increase engine temperatures. This, in turn, increases the risk of piston seizure The idle speed and maximum speed of the engine change if you switch from a fuel with a certain ethanol content to another fuel with a much higher or lower ethanol content. If your power tool's idle speed is incorrectly adjusted, have your authorized STIHL servicing dealer check your machine and make the proper adjustments and repairs.

The chemical composition of the fuel is also important. Some fuel additives not only detimentally affect elesteners (carburetor disphragms, oil seals, fuel lines, etc.), but magnesium castings and calelytic converters as well. This could cause running problems or damage the engine. For this cesson STIHL. unleaded gasoline! that you use only quality

To ensure the maximum performance of your STIHL engine, use a high quality\_2 cycle engine oil, so as STIHL\_2-cycle engine oils, STIHL\_2-cycle engine oils are specially designed for STIHL engines. To help your engine nu cleance and reduce harmful carbon

STIHL MotoMix uses STIHL HP Ultra two-stroke engine oil suited for high performance engines. For further details, see www.STIHLusa.com/ethanol

ratio.

This problem can be avoided by always using fuel with the same ethanol content.

STIHL recommends the use of STIHL MotoMix. STIHL MotoMix has a high octane rating and ensures that you always use the right gasoline/oil mix

STIHL MotoMbx

The machine's fuel tank should be cleaned as necessary. The container should be kept tightly closed in order to limit the amount of moisture that gets into the mixture.

problems and major damage in engines and should not be used. Gasoline with an ethanol content of more than 10% can cause running

For further details, see www.STIHLusa.com/ethanol

The ethanol content in gasoline affects engine speed – it may be necessary to readjust the carburetor if you use fuels with various ethanol contents.

To meet the requirements of EPA and CARB we recommend to use STIHL HP Ultra oil or equivalent.

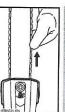
Fuel mbx ages

deposits, STIHL recommends using STIHL HP Ultra 2-cycle engine oil, or use an equivalent high quality 2-cycle

Do not use BIA or TCW rated (two-stroke water cooled) mix oils or other mix oils that state they are for use in both water cooled and air cooled engines (e.g., outboard motors, snowmobiles, chain saws, mopeds, etc.). If not using STHL MotoMs, only mix sufficient flot of a lew days of work, not to exceed 30 days of storage. Store in approved fuel-containes only. When mixing, pour oil into the container first, and then add gasoline. Close the container and steel it signovastly by heard to ensure proper mix of oil and beautie proper mix of oil and

HT 102, HT 103, HT 132, HT 133

# Checking Chain Tension



- Shut off the engine
- Wear work gloves to protect your hands.
- The chain must fit snugly against the underside of the bar and it must still be possible to pull the chain along the bar by hand.
- use for some time. A new chain has to be re-tensioned more often than one that has been in If necessary, re-tension the chain
- Check chain tension frequently see chapter on "Operating Instructions".

# Adjusting the Throttle Cable





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

Fitting the Cilp

English



Position of carrying ring



Depending on the shaft length, the following positions are recommended

- Telescoping shaft compressed, distance A = 15 cm (6 in)
- Telescoping shaft fully extended, distance B = 50 cm (20 in)

Fitting the clip-on carrying ring



Squeeze the ends (arrows) together and push carrying ring onto the shaft.

## Chain Lubricant

For automatic and reliable lubrication of the chain and guide bar – use only an environmentally compatible quality chain and bar lubricant. Rapidly biodegradable STIHL BloPlus is recommended.

Biological chain oil must be resistant to aging (e.g. STHL BioPlus), since it will otherwise quickly turn to resin. This results in hard deposits that are difficult to remove, especially in the area of the chain drive and chain. It may even cause the high properties of the chain of th the oil pump to seize.

The service life of the chain and guide bar depends on the quality of the lubricant. It is therefore essential to use only a specially formulated chain lubricant.

## Do not use weste oil. Renewed contact with waste oil can cause skin cancer. Moreover, waste oil is environmentally WARNING

Waste oil does not have the necessary lubricating properties and is unsuitable for chain lubrication. NOTICE

# Filling Chain Oil Tank

### NOTICE

A full chain oil tank is sufficient for only half a tankful of fuel. Check the oil level regularly during cutting work. Never allow the oil tank to run dry.





Thoroughly clean the tank cap and the area around it to ensure that no dirt falls into the tank.

Position the machine so that the tank cap faces up.

Raise the grip until it is upright.



Marks on tank cap and oil tank must line up.

8

Gasoline Oil (STIHL 50:1 or equiva-lent high-quality oils)

Fueling

	20	10	S	1	Liters
	0.40	0.20	0.10	0.02	Liters
	(400)	(200)	(100)	(20)	(ml)
i					

Dispose of empty mixing-oil containers only at authorized disposal locations. 21/2 US fl.o 2.6 6.4 12.8



Before fueling, clean the filter cap and the area around it to ensure that no dirt falls into the tank.

Always thoroughly shake the mixture in the canister before fueling your

## WARNING

Use the proper seasonal gasoline blend, i.e., winter blend in winter, summer blend in summer.

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Position the machine so that the filler cap is facing up.

To reduce the risk of fire and personal injuries due to escaping fuel and vapor, remove the fuel filler cep carefully so that any excess pressure in the tank can escape slowly.

•





Turn the cap counterclockwise (about a quarter turn).



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English

Opening the threaded filler cap



Turn the cap counterclockwise until it can be removed from the tank

Remove the filter cap.

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

Closing the threaded filler cap

Position cap.

Turn the cap clockwise as far as it will go and tighten it as securely as possible by hand.

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Remove the tank cap.

# Filling the Chain Oil Tank

While holding the cap depressed, turn it clockwise until it engages in position.

Tank cap is locked.

Take care not to spill chain oil white refilling and do not overfill the tank. Fill the tank with chain oil.

If the all level in the tank does not go down, the reason may be a problem in the all supply system. Obeck chain lubrication, obean the allways, contact your dealer for assistance if necessary. STIHL recommends that you have servicing and tepar work carried out exclusively as a authorized STIHL servicing dealer.



Grip must be vertical:

Fit the cap – marks on tank cap and oil tank must line up.

Press the cap down as far as stop.



tank opening

If the tank cap cannot be locked in the oil

The marks on the cap and oil tank are then in alignment.

Bottom of cap is twisted in relation to top.

Remove the cap from the oil tank and check it from above.



Fold the grip down.

Checking Chain Lubrication



8

Always shut off the engine and fit the chain guard

The saw chain must always throw off a small amount of oil.

MOTICE

Right:

Bottom of cap in correct posi-tion – inner mark is under the grip. It is not in line with the outer mark.

Never operate your machine without chain lubrication. If the chain rust dry, the whole cutting attachment will be irretineably damaged within a way short time. Always check chain lubrication and the oil level in the tank before starting work.

After breaking in the chain, check chain tension and adjust if necessary – see "Checking Chain Tension".

Every new chain has to be broken in for about 2 to 3 minutes. .

. Tighten down the clamp nut firmly Adjust shaft to the required length

Loosen the clamp nut half a turn counterclockwise.

Turn the cap clockwise and lock it in position – see section on "Closing".

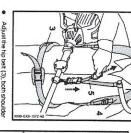
Continue rotating the cap counterclockwise (about a quarter turn) – this causes the bottom of the cap to be turned to the correct cap to be turned to the correct cap to be turned to the correct cap to the counter to the continue to the continue to the cap to the c

engages the filler neck. Place the cap on the opening and rotate it counterclockwise until it

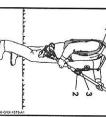
Adjusting the Telescoping Shart

A WARNING

Only versions with telescoping shaft

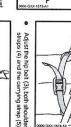


Adjust the hip belt (3), both shoulder straps (4) and the carrying strap (5).



Put the backpack carrying system (1) on your back and adjust it as described in the instruction

- Attach the pole pruner to the carrying strap when cutting. Attach the carabiner (1) to the carrying ring (2) on the shaft.



Squeeze the clip together to move it up or down the shaft.

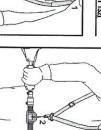
2

Fitting the Harness

Shoulder strap (HT 103, HT 133)

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

Shoulder strap (HT 102, HT 132)



Put on the shoulder strap (1). Adjust the length of the strap.

- With the power tool attached, the carabiner (2) must be at about the same height as your right hip.

Attach the pole pruner to the carrying strap when cutting.

Backpack Carrying System

Only versions with rigid shaft

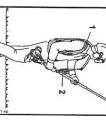


Put the backpack carrying system (1) on your back and adjust it as described in the instruction

With the power tool attached, the carabiner (2) must be at about the same height as your right hip. Adjust the length of the strap. Put on the shoulder strap (1).

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Attach the carabiner (2) to the machine's carrying ring.

### 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

5

Continue cranking until the engine

# As soon as the engine runs



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

Risk of injury from saw chain running when the engine is idling. Adjust the carburetor so that the saw chain does not run when the engine is idling – see "Adjusting the Carburetor". WARNING

Your machine is now ready for operation.

Check that there is fuel in the tank and refuel if necessary. Check that all settings are correct

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

Stopping the Engine

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

Other Hints on Starting

# Engine stalls in cold start position $\underline{\mathcal{I}}$ or under acceleration.

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

# Engine does not start in warm start position Z

Move the choke knob to  $\underline{\mathcal{L}}$  and continue cranking until the engine

If the engine does not start

HT 102, HT 103, HT 132, HT 133

# Starting / Stopping the Engine

Starting the Engine

Craniding

English

Controls

アプラ



Throttle trigger Throttle trigger lockout

Stop switch with **Run** and **Stop** positions. Depress the stop switch ( $\Theta$ ) to switch off the ignition – see "Function of stop switch and ignition

Function of stop switch and ignition

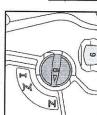
temperature: Press in the choke knob (8) and turn it to the position that suits the engine

The lynition is switched off and the engine stopped when the stop switch is pressed. The stop switch neums automatically to the fluir position when it is released. The gration is switched on again after the engine stops—the engine is then ready to start.

Not you

Press the manual fuel pump bulb (9) at least five times – even if the bulb is already filled with fuel.

✓ If the engine is cold
 ✓ for warm start – also use this position if the engine has been running but is still cold.



Remove the chain scabbard. Check that the chain is not touching the ground or any other obstacles.

Place the unit on the ground: It must rest securely on the engine support and the hook. If necessary, rest the hook on a raised support (e.g. a branch, mound or something

## WARNING

Check that nobody is standing within the working range of the pruner.

Make sure you have a safe and secure footing.

Hold the unit with your left hand on the fan housing and press it down firmly – your thumb should be under the fan housing.

Do not stand or kneel on the drive tube

Hold the starter grip with your right hand.

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

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ß

HT 102, HT 103, HT 132, HT 133

# Fuel tank run until completely dry

Set the choke knob to suit the engine temperature.

Now start the engine.

Use only special saw chain sharpening flee. Other files have the wrong shape

For checking angles



Use a STNHL filing gauge (special accessory, see lable "Sharpening Tools"). This is a universal tool for checking the filing and side plate angles, depth gauge setting, cutter length and growe depth. It also cleans the guide bar groove and oil niet holes.

### File correctly

- Select sharpening tools according to chain pitch.
- Clamp the bar in a vise if necessary If you use an FG 2, HOS or USG sharpener: Remove the chain from the bar and sharpen according to the instructions supplied with the
- Sharpen the chain frequently, take away as little metal as possible two or three strokes of the file are usually enough.



electric grinder.

Hold the file **hortzontally** (at a right angle to the side of the guide bar) and file according to the angles marked on the file holder. Rest the file holder on the top plate and depth

- The file only sharpens on the forward stroke lift the file off the cutter on the backstroke. Always file from the inside to the outside of the cutter.
- Avoid touching the tie straps and drive links with the file.
- Use a piece of hardwood to remove burrs from the cutting edge. Rotate the file at regular intervals while filing to avoid one-sided wear

.

All cutters must be the same length. Check angles with the filing gauge.

> 0 0

The depth gauge determines the height at which the cutter enters the wood and thus the thickness of the chip removed.

Specified distance or setting between depth gauge and cutting edge.

This setting may be increased by 0.2 mm (0.008") for cutting softwood in the mild weather season – no frost.

Cildiii b	pich	Setting (a)	gauge (a)
inch	(mm)	mm	(inch)
1/4 P	(6,35)	0,45	(0.018)
1/4	(6,35)	0,65	(0.026)
3/8 P	(9.32)	0,65	(0.026)
0.325	(8.25)	0,65	(0.026)
3/8	(9,32)	0,65	(0.026)

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## the Saw Chain Valntaining and Sharpening

Cutting effortlessly with a correctly sharpened chain

# A properly sharpened chain slices through wood effortlessly and requires very little feed pressure.

Do not work with a dull or damaged chain as it will increase the physical effort required, produce unsatisfactory results and a higher rate of wear.

Clean the chain.

Mark (a)

- Check the chain for cracks in the links and damaged rivets.
- Replace any damaged or worn parts of the chain and match the new parts to the shape and size of the original parts.

recommends you have your chain resharpened by a STIHL servicing Carbide-tipped saw chains (Duro) are particularly wear resistant. STIHL

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Filing and side plate angles

WARNING

It is absolutely essential to comply with the angles and dimensions specified below. If the saw chain is incorrectly sharpened – and in particular if the depth gauge is set too two – there is an increased risk of kickback, with resulting

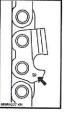
The saw chain cannot be locked in place on the guide bar. Therefore, it is best to remove the chain from the bar and reshappen it on a workshop sharpening tool (FG 2, HOS, USG).

A Filing angle

pitch - see table "Sharpening Tools"



Chain pltch



B Side plate angle

The chain pitch (a) is marked on the depth gauge end of each cutter.

Mark (a)	Chain pitch	pitch	71 PM3		
	inch mm	mm	chisel cutter en	3	80
7	1/4 P	6,35		8	8
1 or 1/4	1/4	6,35	Ripping chain, e.g.	10	75
6, P or PM	3/8 P	9,32	63 PMX, 36 RMX		į
2 or 325	0.325	8,25	The angles must be the same on all	ne or	a
3 or 3/8	3/8	9,32	cutters. If the angles are uneven: Chain	even:	Chain
Select file diameter according to chain of the see table "Sharpening Tools"	ter according	g to chair	will run roughly, not in a straight line, wear quickly and finally break.	aight ak.	line,

You must observe certain angles when resharpening the chain cutter.

Use a file holder

A file holder must be used for manual resharpening (see table "Sharpening Tools"). The correct filing angles are marked on the file holder.

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STIHL saw chains are sharpened to a filing angle of 30°. Exceptions are ripping chains with a filing angle of 10°. Ripping chains have an X in their

Cutter shapes The correct side plate angle is obtained automatically if you use the prescribed file holder and file diameter.

1	Cutter shapes	Ang	Angle (")
		Þ	œ
	Micro = semi chisel cutter, 30 e.g. 63 PM3, 26 RM3, 71 PM3	ઝ	75
	Super = chisel cutter, e.g. 63 PS3, 26 RS, 36 RS3	30	60
	Ripping chain, e.g.	10	75

File holder



8

Lowering depth gauges

The depth gauge setting is reduced when the chain is sharpened.

Use a filing gauge to check the setting every time you sharpen the chain.

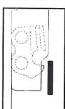


Place a filing gauge (1) that matches the chain pilch on the chain and press it against the cutter - If the depth gauge projects from the filing gauge, the depth gauge has to be lowered.

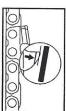
Saw chains with humped drive link (2) – upper part of humped drive link (2) (with service mark) is lowered along with the depth gauge.

WARNING

the kickback tendency of the power tool The other parts of the humped drive link must not be filed since this may increase



File down the depth gauge until it is level with the filing gauge.



File the top of the depth gauge parallel to the stamped service marking (see arrow) – but do not lower the highest point of the depth gauge in this process.

Operating Instructions

# Chain at operating temperature

Faiding Care of the Guide Bai

The chain stretches and begins to sag. The drive links must not come out of the bar groove – the chain may otherwise jump off the bar. Retension the chain – see "Tensioning the Saw Chain".

During Break-In Period

Allow engine to run for a short while at title speed so that engine heat can be dissipated by the flow of cooling air. This protects engine-mounted components (ignition, carburetor) from thermal After long period of full-throttle operation

A factory-new machine should not be an all high ress (full throttle of local) for the first three tank fillings. This avoids unnecessiny ligh toasts during the break-in period. As all moving parts have to bed in during the break-in period, the friidonal resistances in the origine are greater during this period. The engine develops its machinum power after about 5 to 15 tank fillings.

## After Finishing Work

Slacken off the chain if you have retensioned it at operating temperature during cutting work.

0.1 0

### NOTICE

Do not make the mixture leaner to

NOTICE

achieve an apparent increase in power -this could damage the engine - see "Adjusting the Carburetor".

During Operation

Always slacken off the chain after finishing work. The chain contracts as it cools down. If it is not slackened off, it can damage the gear shaft and bearings. bearings.

Turn the bar over every time you sharpen the chain and every time you replace the chain – this helps avoid one-sided wear, especially at the nose and underside of the bar.

# Storing your saw for a short period

groove (3).

Regularly clean the oil inlet hole (1), the oilway (2) and the bar

A new chain has to be retensioned more often than one that has been in use for Check chain tension frequently

Wait for the engine to cool down. Drain the fuel tank. Store the machine in a dry location. Check the tightness of all accessible screws and nuts (not adjusting screws) at regular intervals and retighten if necessary.

Tension is correct when the chain fits snugly against the underside of the bar and can still be pulled along the bar by hand. Retension if necessary – see "Tensioning the Saw Chain".

Storing for a long period

See chapter on "Storing the Machine"

If groove depth is less than specified:

Replace the guide bar.

Chain type Chain pitch Minimum

1/4" P

4.0 mm (0.16 in)

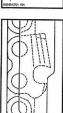
Measure the groove depth – with the scale on the filing gauge (special accessory) – in the area used most for cutting.

HT 102, HT 103, HT 132, HT 133

English

A WARNING

The kickback tendency of the machine is increased if the depth gauges are too



Place the filing gauge on the chain – the highest point of the depth gauge must be level with the filing gauge.

After sharpening, clean the chain thoroughly, remove filings or grinding dust – lubricate the chain thoroughly.

Before a long out-of-service period, clean the chain and store it in a well-oiled condition.

Sharpening Tools (special accessor Chain pitch Round file Ø inch (rm) mm (inch) 114 P (6.35) 3.2 (1/8) 114 P (6.35) 4.0 (5/32) 3/8 P (9.32) 4.0 (5/32) 0.325 (8.25) 4.8 (3/16) 3/8 (9.32) 5.2 (13/64) consisting of file holder Beorles)
3 Round file
Part No.
5605 771 3206
5605 772 4006
5605 772 4006 round file, flat file and filing gauge 5605 772 4806 5605 772 5206 5605 750 4300 5605 750 4327 5605 750 4327 5605 750 4328 5605 750 4329 File holder Part No. 1110 893 4000 1110 893 4000 1110 893 4000 1110 893 4000 Filing gauge Part No. 0000 893 4005 Part No. 0814 252 3356 0814 252 3356 0814 252 3356 0814 252 3356 0814 252 3356 Flat file 5605 007 1028 5605 007 1029 Sharpening kit 1)
Part No.
5605 007 1000
5605 007 1027
5605 007 1027

HT 102, HT 103, HT 132, HT 133

3/8

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