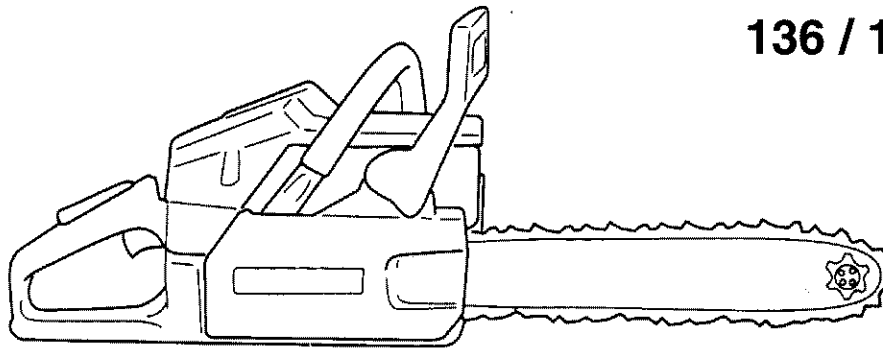


# Husqvarna

## Operator's Manual

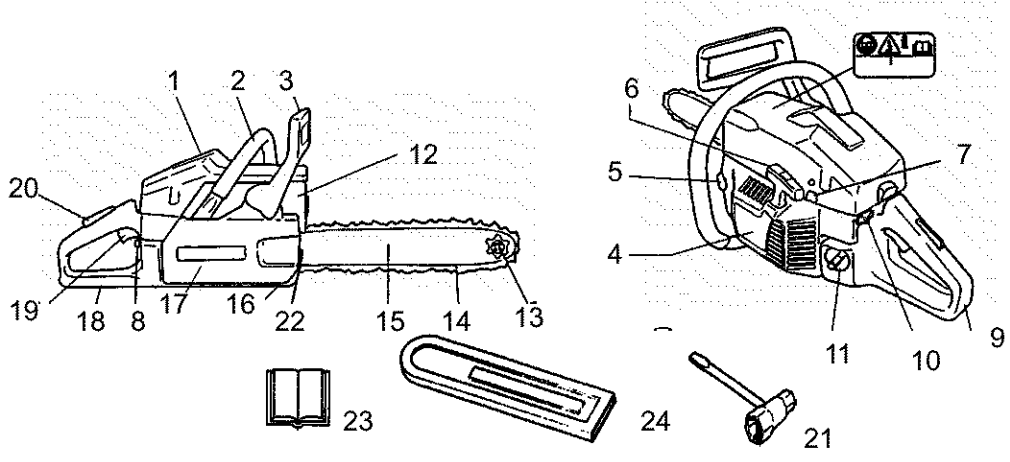
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### **Instruction Manual**

Read and follow all Safety Rules and Operating Instructions before using this product. Failure to do so can result in serious injury.

# IDENTIFICATION (WHAT IS WHAT?)

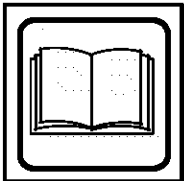


- |                               |                               |
|-------------------------------|-------------------------------|
| 1. Cylinder Cover             | 13. Bar Tip Sprocket          |
| 2. Front Handle               | 14. Saw Chain                 |
| 3. Front Hand Guard           | 15. Saw Bar                   |
| 4. Starter Cover              | 16. Chain Catcher             |
| 5. Chain Oil Tank             | 17. Chain Brake Assembly      |
| 6. Starter Handle             | 18. Rear Hand Guard           |
| 7. Carburetor Adjusting Screw | 19. Throttle Control/Trigger  |
| 8. Choke Control              | 20. Throttle Lock             |
| 9. Rear Handle                | 21. Bar/Chain Adjustment Tool |
| 10. ON/OFF Stop Switch        | 22. Chain Tensioning Screw    |
| 11. Fuel Tank                 | 23. Instruction Manual        |
| 12. Muffler                   | 24. Guide Bar Cover           |

# IDENTIFICATION OF SYMBOLS



**WARNING!** This chain saw can be dangerous! Careless or improper use can cause serious or even fatal injury.



Read and understand the instruction manual before using the chain saw.



Measured maximum kickback value without chain brake for the bar and chain combination on the label.

There may be more symbols found on your unit other than those listed above. These symbols may represent compliances, standards, or other matters concerning the product.

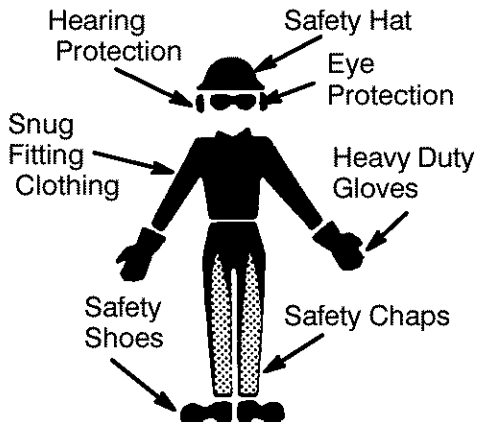
# SAFETY RULES

**⚠ WARNING:** Always disconnect spark plug wire and place wire where it cannot contact spark plug to prevent accidental starting when setting up, transporting, adjusting or making repairs except carburetor adjustments.

Because a chain saw is a high-speed wood-cutting tool, special safety precautions must be observed to reduce the risk of accidents. Careless or improper use of this tool can cause serious injury.

## PLAN AHEAD

- Read this manual carefully until you completely understand and can follow all safety rules, precautions, and operating instructions before attempting to use the unit.
- Restrict the use of your saw to adult users who understand and can follow safety rules, precautions, and operating instructions found in this manual.



- Wear protective gear. Always use steel-toed safety footwear with non-slip soles; snug-fitting clothing; heavy-duty, non-slip gloves; eye protection such as non-fogging, vented goggles or face screen; an approved safety hard hat; and sound barriers (ear plugs or mufflers) to protect your hearing. Regular users should have hearing checked regularly as chain saw noise can damage hearing. Secure hair above shoulder length.
- Keep all parts of your body away from the chain when the engine is running.
- Keep children, bystanders, and animals a minimum of 30 feet (10 meters) away from the work area. Do not allow other people or animals to be near the chain saw when starting or operating the chain saw.
- Do not handle or operate a chain saw when you are fatigued, ill, or upset, or if you have taken alcohol, drugs, or medication. You must be in good physical condition and mentally alert. Chain saw work is strenuous. If you have any condition that might be aggravated by strenuous work, check with your doctor before operating a chain saw.

- Carefully plan your sawing operation in advance. Do not start cutting until you have a clear work area, secure footing, and, if you are felling trees, a planned retreat path.

## OPERATE YOUR SAW SAFELY

- Do not operate a chain saw with one hand. Serious injury to the operator, helpers, bystanders or any combination of these persons may result from one-handed operation. A chain saw is intended for two-handed use.
- Operate the chain saw only in a well-ventilated outdoor area.
- Do not operate saw from a ladder or in a tree.
- Make sure the chain will not make contact with any object while starting the engine. Never try to start the saw when the guide bar is in a cut.
- Do not put pressure on the saw at the end of the cut. Applying pressure can cause you to lose control when the cut is completed.
- Stop the engine before setting the saw down.
- Do not operate a chain saw that is damaged, improperly adjusted, or not completely and securely assembled. Always replace bar, chain, hand guard, or chain brake immediately if it becomes damaged, broken or is otherwise removed.
- With the engine stopped, hand carry the chain saw with the muffler away from your body, and the guide bar and chain to the rear, preferably covered with a scabbard.

## MAINTAIN YOUR SAW IN GOOD WORKING ORDER

- Have all chain saw service performed by a qualified service dealer with the exception of the items listed in the maintenance section of this manual. For example, if improper tools are used to remove or hold the flywheel when servicing the clutch, structural damage to the flywheel can occur and cause the flywheel to burst.
- Make certain the saw chain stops moving when the throttle trigger is released. For correction, refer to CARBURETOR ADJUSTMENTS.
- Never modify your saw in any way.
- Keep the handles dry, clean, and free of oil or fuel mixture.
- With the engine stopped, hand carry the chain saw with the muffler away from your body, and the guide bar and chain to the rear, preferably covered with a guide bar cover.
- Keep fuel and oil caps, screws, and fasteners securely tightened.
- Use only Husqvarna accessories and replacement parts as recommended.

## HANDLE FUEL WITH CAUTION

- Do not smoke while handling fuel or while operating the saw.
- Eliminate all sources of sparks or flame in the areas where fuel is mixed or poured.

There should be no smoking, open flames, or work that could cause sparks. Allow engine to cool before refueling.

- Mix and pour fuel in an outdoor area on bare ground; store fuel in a cool, dry, well ventilated place; and use an approved, marked container for all fuel purposes. Wipe up all fuel spills before starting saw.
- Move at least 10 feet (3 meters) from fueling site before starting engine.
- Turn the engine off and let saw cool in a non-combustible area, not on dry leaves, straw, paper, etc. Slowly remove fuel cap and refuel unit.
- Store the unit and fuel in an area where fuel vapors cannot reach sparks or open flames from water heaters, electric motors or switches, furnaces, etc.

## KICKBACK

**WARNING:** Avoid kickback which can result in serious injury. **Kickback** is the backward, upward or sudden forward motion of the guide bar occurring when the saw chain near the upper tip of the guide bar contacts any object such as a log or branch, or when the wood closes in and pinches the saw chain in the cut. Contacting a foreign object in the wood can also result in loss of chain saw control.

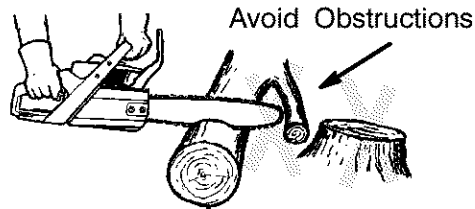
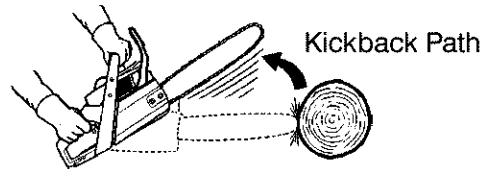
- **Rotational Kickback** can occur when the moving chain contacts an object at the upper tip of the guide bar. This contact can cause the chain to dig into the object, which stops the chain for an instant. The result is a lightning fast, reverse reaction which kicks the guide bar up and back toward the operator.
- **Pinch-Kickback** can occur when the wood closes in and pinches the moving saw chain in the cut along the top of the guide bar and the saw chain is suddenly stopped. This sudden stopping of the chain results in a reversal of the chain force used to cut wood and causes the saw to move in the opposite direction of the chain rotation. The saw is driven straight back toward the operator.
- **Pull-In** can occur when the moving chain contacts a foreign object in the wood in the cut along the bottom of the guide bar and the saw chain is suddenly stopped. This sudden stopping pulls the saw forward and away from the operator and could easily cause the operator to lose control of the saw.

### Avoid Pinch-Kickback:

- Be extremely aware of situations or obstructions that can cause material to pinch the top of or otherwise stop the chain.
- Do not cut more than one log at a time.
- Do not twist the saw as the bar is withdrawn from an undercut when bucking.

### Avoid Pull-In:

- Always begin cutting with the engine at full speed and the saw housing against wood.
- Use wedges made of plastic or wood. Never use metal to hold the cut open.



Clear The Working Area

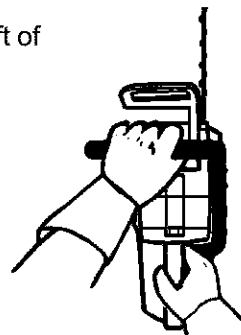
## REDUCE THE CHANCE OF KICKBACK

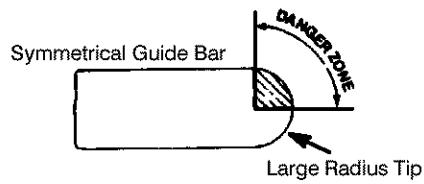
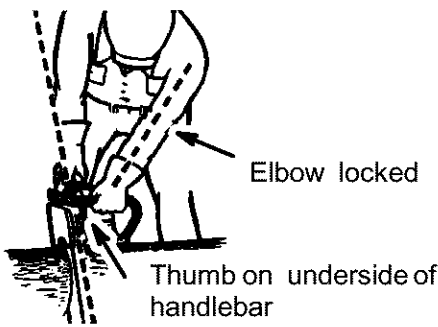
- Recognize that kickback can happen. With a basic understanding of kickback, you can reduce the element of surprise which contributes to accidents.
- Never let the moving chain contact any object at the tip of the guide bar.
- Keep the working area free from obstructions such as other trees, branches, rocks, fences, stumps, etc. Eliminate or avoid any obstruction that your saw chain could hit while you are cutting. When cutting a branch, do not let the guide bar contact branch or other objects around it.
- Keep your saw chain sharp and properly tensioned. A loose or dull chain can increase the chance of kickback occurring. Follow manufacturer's chain sharpening and maintenance instructions. Check tension at regular intervals with the engine stopped, never with the engine running. Make sure the bar clamp nuts are securely tightened after tensioning the chain.
- Begin and continue cutting at full speed. If the chain is moving at a slower speed, there is greater chance of kickback occurring.
- Cut one log at a time.
- Use extreme caution when re-entering a previous cut.
- Do not attempt cuts starting with the tip of the bar (plunge cuts).
- Watch for shifting logs or other forces that could close a cut and pinch or fall into chain.
- Use the Reduced-Kickback Guide Bar and Low-Kickback Chain specified for your saw.

## MAINTAIN CONTROL

Stand to the left of the saw

Never reverse hand positions

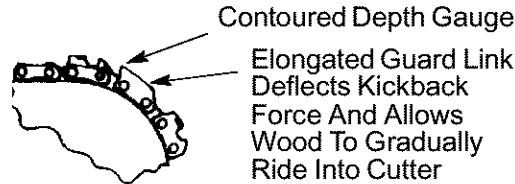




- Keep a good, firm grip on the saw with both hands when the engine is running and don't let go. A firm grip will help you reduce kickback and maintain control of the saw. Keep the fingers of your left hand encircling and your left thumb under the front handlebar. Keep your right hand completely around the rear handle whether you are right handed or left handed. Keep your left arm straight with the elbow locked.
- Position your left hand on the front handlebar so it is in a straight line with your right hand on the rear handle when making bucking cuts. Never reverse right and left hand positions for any type of cutting.
- Stand with your weight evenly balanced on both feet.
- Stand slightly to the left side of the saw to keep your body from being in a direct line with the cutting chain.
- Do not overreach. You could be drawn or thrown off balance and lose control of the saw.
- Do not cut above shoulder height. It is difficult to maintain control of saw above shoulder height.

- Low-Kickback Chain, designed with a contoured depth gauge and guard link which deflect kickback force and allow wood to gradually ride into the cutter. Low-Kickback Chain has met kickback performance requirements when tested on a representative sample of chain saws below 3.8 cubic inch displacement specified in ANSI B175.1.

#### Low-Kickback Chain



- Front Hand Guard, designed to reduce the chance of your left hand contacting the chain if your hand slips off the front handlebar.
- Position of front and rear handlebars, designed with distance between handles and "in-line" with each other. The spread and "in-line" position of the hands provided by this design work together to give balance and resistance in controlling the pivot of the saw back toward the operator if kickback occurs.

#### CHAIN BRAKE AND CKA ANGLE

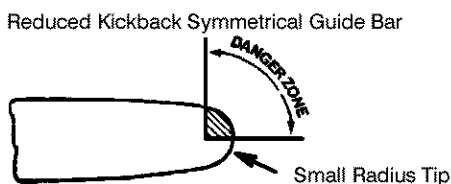
- Chain Brake, designed to stop the chain in the event of kickback.

**⚠ WARNING:** WE DO NOT REPRESENT AND YOU SHOULD NOT ASSUME THAT THE CHAIN BRAKE WILL PROTECT YOU IN THE EVENT OF A KICKBACK. Kickback is a lightning fast action which throws the bar and rotating chain back and up toward the operator. Kickback can be caused by allowing contact of the bar tip in the danger zone with any hard object. Kickback can also be caused by pinching the saw chain along the top of the guide bar. This action may push the guide bar rapidly back toward the operator. Either of these events may cause you to lose control of the saw which could result in serious injury or even death. **DO NOT RELY UPON ANY OF THE DEVICES BUILT INTO YOUR SAW. YOU SHOULD USE THE SAW PROPERLY AND CAREFULLY TO AVOID KICKBACK.** Reduced-kickback guide bars and low-kickback saw chains reduce the chance and magnitude of kickback and are recommended. Your saw has a low kickback chain and bar as original equipment. Repairs on a chain brake should be made by an authorized servicing dealer. Take your unit to the place of purchase if purchased from a Husqvarna Servicing Dealer, or to the nearest Authorized Husqvarna Service Dealer.

#### KICKBACK SAFETY FEATURES

**⚠ WARNING:** The following features are included on your saw to help reduce the hazard of kickback; however, such features will not totally eliminate this dangerous reaction. As a chain saw user, do not rely only on safety devices. You must follow all safety precautions, instructions, and maintenance in this manual to help avoid kickback and other forces which can result in serious injury.

- Reduced-Kickback Guide Bar, designed with a small radius tip which reduces the size of the kickback danger zone on the bar tip. A Reduced-Kickback Guide Bar has been demonstrated to significantly reduce the number and seriousness of kickbacks when tested in accordance with safety requirements for gasoline powered chain saws as set by ANSI B175.1.



- Tip contact in some cases may cause a lightning fast reverse REACTION, kicking the guide bar up and back toward the operator.
- Pinching the saw chain along the top of the guide bar may push the guide bar rapidly back toward the operator.
- Either of these reactions may cause you to lose control of the saw which could result in serious injury. Do not rely exclusively upon the safety devices built into your saw.

**⚠ WARNING:** Computed kickback angle (CKA) listed on your saw and listed in the CKA table below represents angle of kickback your bar and chain combinations will have when tested in accordance with CSA (Canadian Standards Association) and ANSI standards. When purchasing replacement bar and chain, considerations should

### Computed kickback angle (CKA) Table

MODEL	BAR		CHAIN P/N	CKA without chain brake
	Type	Length		
136	0.050 GA	14"	91VG/VJ-52	11°
141	0.050 GA	16"	91VG-56	11°
141	0.050 GA	18"	H 30-72	38°

**NOTE:** If this saw is to be used for commercial logging, a chain brake is required and shall not be removed or otherwise disabled to comply with Federal OSHA Regulations for Commercial Logging. Contact your authorized Husqvarna service dealer.

**SAFETY NOTICE:** Exposure to vibrations through prolonged use of gasoline powered hand tools could cause blood vessel or nerve damage in the fingers, hands, and joints of people prone to circulation disorders or abnormal swellings. Prolonged use in cold weather has been linked to blood vessel damage in otherwise healthy people. If symptoms occur such as numbness, pain, loss of strength, change in skin color or texture, or loss of feeling in the fingers, hands, or joints, discontinue the use of this tool and seek medical attention. An anti-vibration system does not guarantee the avoidance of these problems. Users who operate power tools on a continual and regular basis must monitor closely their physical condition and the condition of this tool.

**SPECIAL NOTICE:** Your saw is equipped with a temperature limiting muffler and spark arresting screen which meets the

requirements of California Codes 4442 and 4443. All U.S. forest land and the states of California, Idaho, Maine, Minnesota, New Jersey, Oregon, and Washington require many internal combustion engines to be equipped with a spark arrestor screen by law. If you operate a chain saw in a state or locale where such regulations exist, you are legally responsible for maintaining the operating condition of these parts. Failure to do so is a violation of the law. Refer to the SERVICE AND ADJUSTMENTS section for maintenance of the Spark Arresting Screen.

Failure to follow all Safety Rules and Precautions can result in serious injury. If situations occur which are not covered in this manual, use care and good judgement. If you need assistance, contact your authorized service dealer.

**STANDARDS**  
**CSA Z62.1** "Chain Saws - Occupational Health and Safety"  
**CSA Z62.3** "Chain Saw Kickback Occupational Health and Safety"  
**ANSI B175.1-2000** - "American National Standard for Powered Tools - Gasoline Powered Chain Saw - Safety Requirements"

be given to the lower CKA values. Lower CKA values represent safer angles to the user, higher values indicate more angle and higher kick energies. Computed angles represented in the non-activated column indicate total energy and angle associated without activation of the chain brake during kickback. Activated angle represents chain stopping time relative to activation angle of chain break and resulting kick angle of saw. In all cases lower CKA values represent a safer operating environment for the user.

The following guide bar and chain combinations meet kickback requirements of CSA Standards Z62.1, Z62.3, & ANSI B175.1 when used on saws listed in this manual. Use of bar and chain combinations other than those listed is not recommended and may not meet the CKA requirements per standard.

## ASSEMBLY

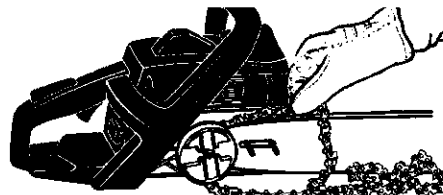
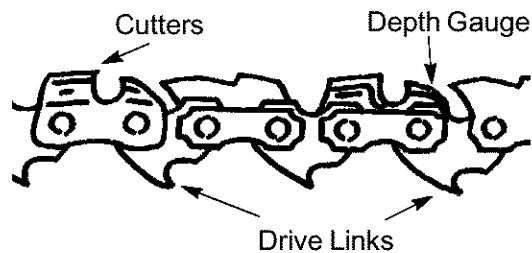
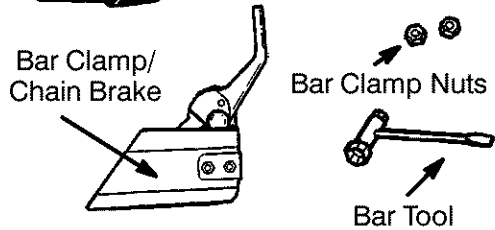
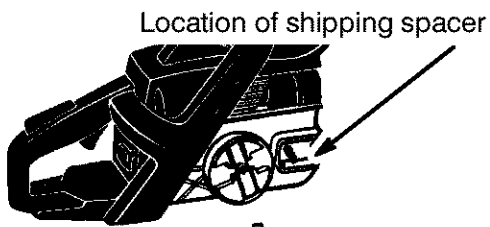
Protective gloves (not provided) should be worn during assembly.

**ATTACHING THE BAR & CHAIN** (If not already attached)

**⚠ WARNING:** Recheck each assembly step if the saw is received assembled. Al-

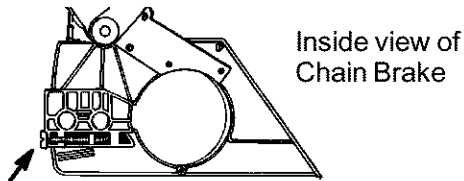
ways wear gloves when handling the chain. The chain is sharp and can cut you even when it is not moving!

- Loosen and remove the clamp nuts and the bar clamp from the saw.
- Remove the plastic shipping spacer (if present).



Place chain onto the sprocket

- An adjusting pin and screw is used to adjust the tension of the chain. It is very important when assembling the bar, that the pin located on the adjusting screw aligns into a hole in the bar. Turning the screw will move the adjustment pin up and down the screw. Locate this adjustment before you begin mounting the bar onto the saw. See illustration.



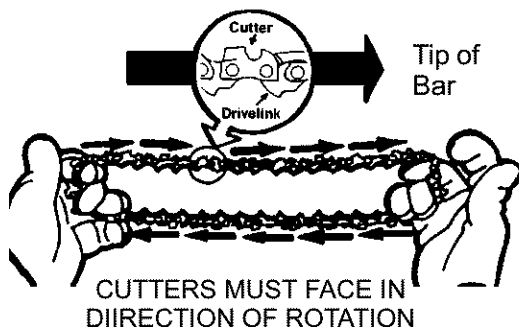
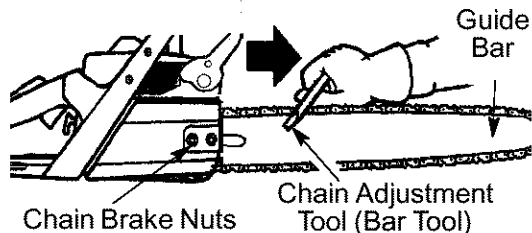
Adjustment located on Bar Clamp

- Turn the adjusting screw counterclockwise to move the adjusting pin almost as far as it will go to the rear. This should allow the pin to be near the correct position. Further adjustment may be necessary as you mount the bar.
- Mount the bar as illustrated.



Mount the Bar

- Slide guide bar behind clutch drum until guide bar stops against clutch drum sprocket.
- Carefully remove the chain from the package. Hold chain with the drive links as shown.



- Place chain over and behind clutch, fitting the drive links in the clutch drum sprocket.
- Fit bottom of drive links between the teeth in the sprocket in the nose of the guide bar.
- Fit chain drive links into bar groove.
- Pull guide bar forward until chain is snug in guide bar groove. Ensure all drive links are in the bar groove.
- Now, install chain brake making sure the adjusting pin is positioned in the lower hole in the guide bar. Remember this pin moves the bar forward and backward as the screw is turned.
- Install chain brake nuts and finger tighten only. Once the chain is tensioned, you will need to tighten chain brake nuts.

### CHAIN TENSION (Including units with chain already installed)

**NOTE:** When adjusting chain tension, make sure the bar nuts are finger tight only. Attempting to tension the chain when the bar nuts are tight can cause damage.

### Checking the tension:

Use the screwdriver end of the combination screwdriver/wrench tool to move the chain around the bar. If the chain does not rotate, it is too tight. If too loose, the chain will sag below the bar.

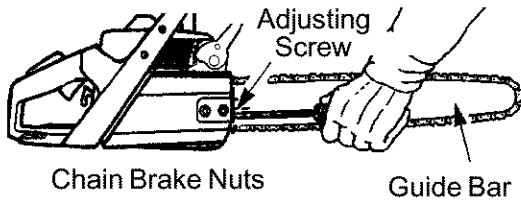
### Adjusting the tension:

Chain tension is very important. Chain stretches during use. This is especially true during the first few times you use your saw. Always check chain tension each time you use and refuel your saw.

You can adjust the chain tension by loosening the bar clamp nuts and turning the adjusting screw 1/4 of a turn while lifting up on the bar.

- If chain is too tight, turn adjusting screw 1/4 turn counterclockwise.

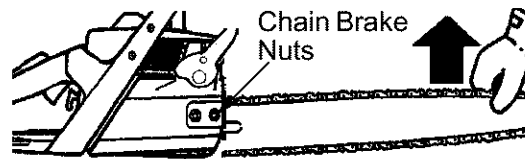
- If chain is too loose, turn adjusting screw 1/4 turn clockwise.



Adjusting Screw - 1/4 Turn



- Lift up the tip of the bar and tighten the chain brake nuts with the bar tool.
- Recheck chain tension.



**WARNING:** If the saw is operated with a loose chain, the chain could jump off the guide bar and result in serious injury.

## FUELING & LUBRICATION

### FUELING ENGINE

**WARNING:** Remove fuel cap slowly when refueling.

This engine is certified to operate on unleaded gasoline. Before operation, gasoline must be mixed with a good quality 2-cycle air-cooled engine oil designed to be mixed at a ratio of 50:1. (A 50:1 ratio is obtained by mixing 2.5 ounces of oil with 1 gallon of unleaded gasoline). **DO NOT USE** automotive or boat oil. These oils will cause engine damage. When mixing fuel follow the instructions printed on the container. Always read and follow the safety rules listed under **HANDLE FUEL WITH CAUTION**.

### BAR AND CHAIN LUBRICATION

The bar and chain require continuous lubrication. Lubrication is provided by the automatic oiler system when the oil tank is kept filled. Lack of oil will quickly ruin the bar and chain. Too little oil will cause overheating shown by smoke coming from the chain and/or discoloration of the bar.

In freezing weather oil will thicken, making it necessary to thin bar and chain oil with a small amount (5 to 10%) of #1 Diesel Fuel or

kerosene. Bar and chain oil must be free flowing for the oil system to pump enough oil for adequate lubrication.

Genuine Husqvarna bar and chain oil is recommended to protect your unit against excessive wear from heat and friction. Husqvarna oil resists high temperature thinning.

If Husqvarna bar oil is not available, use a good grade SAE 30 oil.

- Never use waste oil for bar and chain lubrication.
- Always stop the engine before removing the oil cap.

### IMPORTANT

Experience indicates that alcohol-blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage. To avoid engine problems, the fuel system should be emptied before storage for 30 days or longer. Drain the gas tank, start the engine and let it run until the fuel lines and carburetor are empty. Use fresh fuel next season. See **STORAGE** section for additional information.

## OPERATING YOUR UNIT

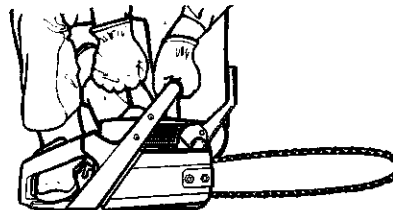
**WARNING:** The chain must not move when the engine runs at idle speed. If the chain moves at idle speed refer to **CARBURETOR ADJUSTMENT** within this manual. Avoid contact with the muffler. A hot muffler can cause serious burns.

**To stop the engine** move the switch to the STOP position.

**To start the engine** hold the saw firmly on the ground as illustrated below. Make sure the chain is free to turn without contacting any object.

Use only 15"–18" of rope per pull.

Hold saw firmly while pulling starter rope.



### Important points to remember

When pulling the starter rope, do not use the full extent of the rope as this can cause the rope to break. Do not let starter rope snap back. Hold the handle and let the rope rewind slowly.



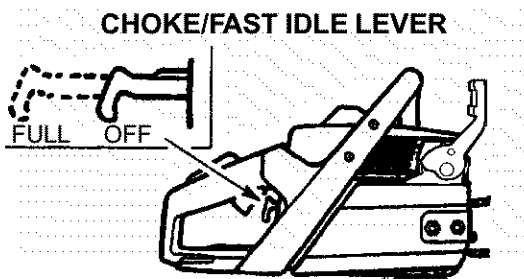
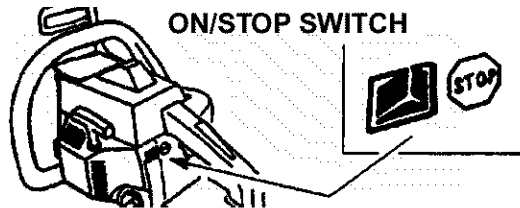
For cold weather starting, start the unit at full choke; allow the engine to warm up before squeezing the throttle trigger.

**NOTE:** Do not cut material with the choke/fast idle lever at the FULL CHOKE position.

### STARTING A COLD ENGINE (or a warm engine after running out of fuel)

**NOTE:** In the following steps, when the choke/fast idle lever is pulled out to the full extent, the correct throttle setting for starting is set automatically.

- Move ON/STOP switch to the ON position.
- Pull the choke/fast idle lever out to the full extent.
- Pull the starter rope quickly with your right hand a maximum of 10 times.
- Push the choke/fast idle lever in completely (to the OFF CHOKE position).
- Pull the starter rope quickly with your right hand until the engine starts.
- Allow the engine to run for approximately 5 seconds. Then, squeeze and release throttle trigger to allow engine to return to idle speed.



### STARTING A WARM ENGINE:

- Move ON/STOP switch to the ON position.
- Pull the choke/fast idle lever out to the full extent; then, push the choke/fast idle lever in completely (to the OFF CHOKE position).
- Pull the starter rope quickly with your right hand until the engine starts.
- Squeeze and release throttle trigger to allow engine to return to idle speed.

### DIFFICULT STARTING (or starting a flooded engine)

The engine may be flooded with too much fuel if it has not started after 10 pulls.

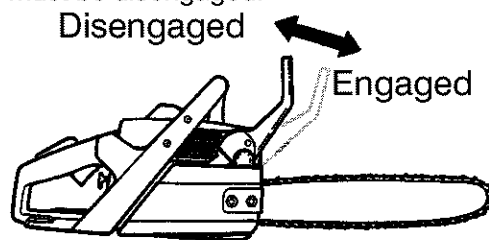
Flooded engines can be cleared of excess fuel by following the warm engine starting procedure listed above. Insure the ON/STOP switch is in the ON position.

Starting could require pulling the starter rope handle many times depending on how badly the unit is flooded. If engine fails to start refer to the TROUBLESHOOTING TABLE.

## CHAIN BRAKE

**WARNING:** WE DO NOT REPRESENT AND YOU SHOULD NOT ASSUME THAT THE CHAIN BRAKE WILL PROTECT YOU IN THE EVENT OF A KICKBACK. Kickback is a lightning fast action which throws the bar and rotating chain back and up toward the operator. Kickback can be caused by allowing contact of the bar tip in the danger zone with any hard object. Kickback can also be caused by pinching the saw chain along the top of the guide bar. This action may push the guide bar rapidly back toward the operator. Either of these events may cause you to lose control of the saw which could result in serious injury or even death. **DO NOT RELY UPON ANY OF THE DEVICES BUILT INTO YOUR SAW. YOU SHOULD USE THE SAW PROPERLY AND CAREFULLY TO AVOID KICKBACK.** Reduced-kickback guide bars and low-kickback saw chains reduce the chance and magnitude of kickback and are recommended. Your saw has a low kickback chain and bar as original equipment. If the brake band is worn too thin it may break when the chain brake is triggered. With a broken brake band, the chain brake will not stop the chain. The chain brake should be replaced by an authorized service dealer if any part is worn to less than 1/32" thick. Repairs on a chain brake should be made by an authorized service dealer. Take your unit to the place of purchase if purchased from a Husqvarna Servicing Dealer, or to the nearest Authorized Husqvarna Service Dealer.

- This saw is equipped with a chain brake. The brake is designed to stop the chain if kickback occurs.
- The inertia-activated chain brake is activated if the front hand guard is pushed forward, either manually (by hand) or automatically (by sudden movement).
- If the brake is already activated, it is disengaged by pulling the front hand guard back toward the front handle as far as possible.
- When cutting with the saw, the chain brake must be disengaged.



### Braking function control

**CAUTION:** The chain brake must be checked several times daily. The engine must be running when performing this procedure. This is the only instance when the saw should be placed on the ground with the engine running.

Place the saw on firm ground. Hold the handles with both hands and apply full throttle. Activate the chain brake by turning your left

wrist against the hand guard without releasing your grip around the front handle. The chain should stop immediately.

### Inertia activating function control

**WARNING:** When performing the following procedure, the engine must be turned off.

## CUTTING METHODS

### IMPORTANT POINTS

- Check chain tension before first use and after 1 minute of operation. See CHAIN TENSION in the ASSEMBLY section.
- Cut wood only. Do not cut metal, plastics, masonry, non-wood building materials, etc.
- Stop the saw if the chain strikes a foreign object. Inspect the saw and repair parts as necessary.
- Keep the chain out of dirt and sand. Even a small amount of dirt will quickly dull a chain and increase the possibility of kickback.
- Practice cutting a few small logs using the following techniques to get the “feel” of using your saw before you begin a major sawing operation.
  - Squeeze the throttle trigger and allow the engine to reach full speed before cutting.
  - Begin cutting with the saw frame against the log.
  - Keep the engine at full speed the entire time you are cutting.
  - Allow the chain to cut for you. Exert only light downward pressure.
  - Release the throttle trigger as soon as the cut is completed, allowing the engine to idle. If you run the saw at full throttle without a cutting load, unnecessary wear can occur.
  - To avoid losing control when cut is complete, do not put pressure on saw at end of cut.
- Stop the engine before setting the saw down after cutting.

### TREE FELLING TECHNIQUES

**WARNING:** Check for broken or dead branches which can fall while cutting causing serious injury. Do not cut near buildings or electrical wires if you do not know the direction of tree fall, nor cut at night since you will not be able to see well, nor during bad weather such as rain, snow, or strong winds, etc. If the tree makes contact with any utility line, the utility company should be notified immediately.

- Carefully plan your sawing operation in advance.
- Clear the work area. You need a clear area all around the tree so you can have secure footing.
- The chain saw operator should keep on the uphill side of the terrain as the tree is likely to roll or slide downhill after it is felled.

The chain brake must be checked several times daily. Hold the chain saw approximately 14” (35 cm) above a stump or other firm object. Release your grip on the front handle and let the saw, by its own weight, rotate around the rear handle. When the tip of the bar hits the stump, the brake should activate.

- Study the natural conditions that can cause the tree to fall in a particular direction. Natural conditions that can cause a tree to fall in a particular direction include:

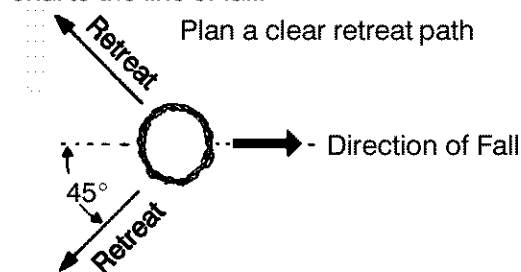
- The wind direction and speed.
- The lean of the tree. The lean of a tree might not be apparent due to uneven or sloping terrain. Use a plumb or level to determine the direction of tree lean.
- Weight and branches on one side.
- Surrounding trees and obstacles.

Look for decay and rot. If the trunk is rotted, it can snap and fall toward the operator. Check for broken or dead branches which can fall on you while cutting.

Make sure there is enough room for the tree to fall. Maintain a distance of 2-1/2 tree lengths from the nearest person or other objects. Engine noise can drown out a warning call.

Remove dirt, stones, loose bark, nails, staples, and wire from the tree where cuts are to be made.

Plan a clear retreat path to the rear and diagonal to the line of fall.



### FELLING LARGE TREES

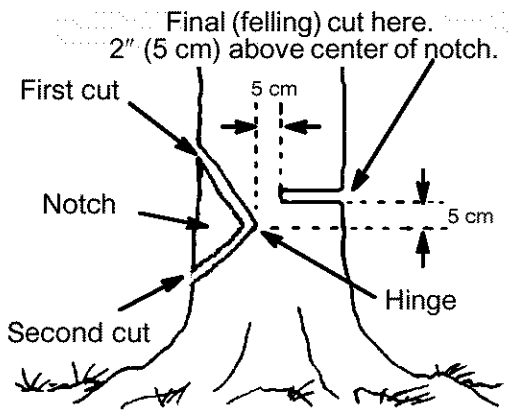
(15 cm in diameter or larger)

The notch method is used to fell large trees. A notch is cut on the side of the tree in the desired direction of fall. After a felling cut is made on the opposite side of tree, the tree will tend to fall into the notch.

**NOTE:** If the tree has large buttress roots, remove them before making the notch. If using saw to remove buttress roots, keep saw chain from contacting ground to prevent dulling of the chain.

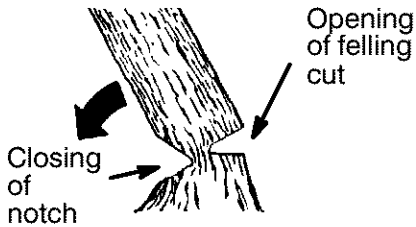
### NOTCH CUT AND FELLING THE TREE

- Make notch cut by cutting the top of the notch first. Cut through 1/3 of the diameter of the tree. Next complete the notch by cutting the bottom of the notch. See illustration. Once the notch is cut remove the notch of wood from the tree.



- After removing the cutout of wood, make the felling cut on the opposite side of the notch. This is done by making a cut about two inches higher than the center of the notch. This will leave enough uncut wood between the felling cut and the notch to form a hinge. This hinge will help prevent the tree from falling in the wrong direction.

Hinge holds tree on stump and helps control fall



**NOTE:** Before felling cut is complete, use wedges to open the cut when necessary to control the direction of fall. To avoid kickback and chain damage, use wood or plastic wedges, but never steel or iron wedges.

- Be alert to signs that the tree is ready to fall: cracking sounds, widening of the felling cut, or movement in the upper branches.
- As tree starts to fall, stop saw, put it down, and get away quickly on your planned retreat path.
- DO NOT cut down a partially fallen tree with your saw. Be extremely cautious with partially fallen trees that may be poorly supported. When a tree doesn't fall completely, set the saw aside and pull down the tree with a cable winch, block and tackle, or tractor.

### CUTTING A FALLEN TREE (BUCKING)

Bucking is the term used for cutting a fallen tree to the desired log length.

**WARNING:** Do not stand on the log being cut. Any portion can roll causing loss of footing and control. Do not stand downhill of the log being cut.

#### IMPORTANT POINTS

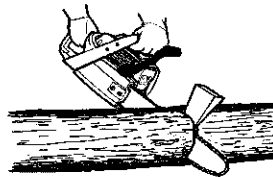
- Cut only one log at a time.
- Cut shattered wood very carefully; sharp pieces of wood could be flung toward operator.

- Use a sawhorse to cut small logs. Never allow another person to hold the log while cutting and never hold the log with your leg or foot.
- Do not cut in an area where logs, limbs, and roots are tangled. Drag the logs into a clear area before cutting by pulling out exposed and cleared logs first.

### TYPES OF CUTTING USED FOR BUCKING

**WARNING:** If saw becomes pinched or hung in a log, don't try to force it out. You can lose control of the saw resulting in injury and/or damage to the saw. Stop the saw, drive a wedge of plastic or wood into the cut until the saw can be removed easily. Restart the saw and carefully reenter the cut. Do not attempt to restart your saw when it is pinched or hung in a log.

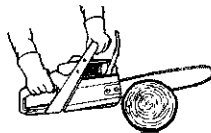
**Use a wedge to remove pinched saw**



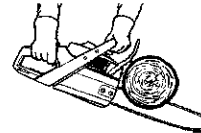
Turn saw OFF and use a plastic or wooden wedge to force cut open.

**Overcutting** begins on the top side of the log with the saw against the log. When overcutting use light downward pressure.

#### Overcutting



#### Undercutting

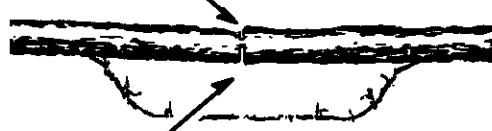


**Undercutting** involves cutting on the underside of the log with top of saw against the log. When undercutting use light upward pressure. Hold saw firmly and maintain control. The saw will tend to push back toward you.

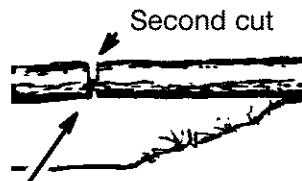
**WARNING:** Never turn saw upside down to undercut. The saw cannot be controlled in this position.

Always make your first cut on the compression side of the log. The compression side of the log is where the pressure of the log's weight is concentrated.

First cut on compression side of log



Second cut



First cut on compression side of log

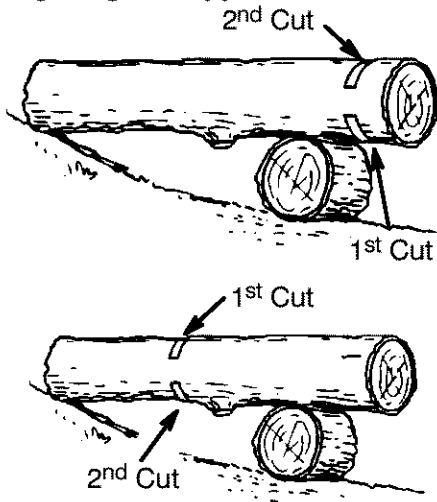
## BUCKING WITHOUT A SUPPORT

- Overcut through 1/3 of the diameter of the log.
- Roll the log over and finish with a second overcut.
- Watch for logs with a compression side to prevent the saw from pinching. See illustration for cutting logs with a compression side.

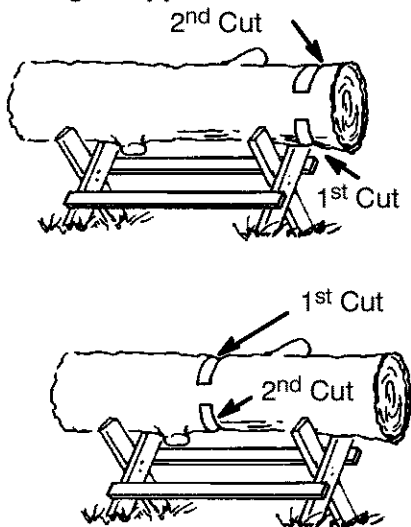
## BUCKING USING A LOG OR SUPPORT STAND

- Remember your first cut is always on the compression side of the log. (Refer to the illustration below for your first and second cuts).
- Your first cut should extend 1/3 of the diameter of the log.
- Finish with your second cut.

### Using a log for support



### Using a support stand



## LIMBING AND PRUNING

**⚠ WARNING:** Be alert for and guard against kickback. Do not allow the moving chain to contact any other branches or objects at the nose of the guide bar when limb-

ing or pruning. Allowing such contact can result in serious injury.

**⚠ WARNING:** Never climb into a tree to limb or prune. Do not stand on ladders, platforms, a log, or in any position which can cause you to lose your balance or control of the saw.

## IMPORTANT POINTS

- Work slowly, keeping both hands firmly gripped on the saw. Maintain secure footing and balance.
- Watch out for springpoles. Use extreme caution when cutting small size limbs. Slender material may catch the saw chain and be whipped toward you or pull you off balance.
- Be alert for springback. Watch out for branches that are bent or under pressure. Avoid being struck by the branch or the saw when the tension in the wood fibers is released.
- Keep a clear work area. Frequently clear branches out of the way to avoid tripping over them.

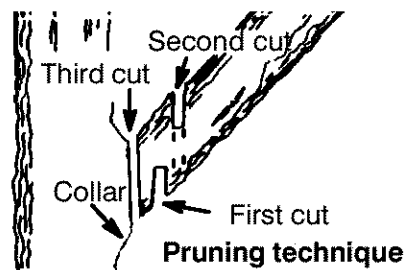
## LIMBING

- Always limb a tree after it is cut down. Only then can limbing be done safely and properly.
- Leave the larger limbs underneath the felled tree to support the tree as you work.
- Start at base of the felled tree and work toward the top, cutting branches and limbs. Remove small limbs with one cut.
- Keep the tree between you and the chain. Cut from the side of the tree opposite the branch you are cutting.
- Remove larger, supporting branches with the cutting techniques described in BUCKING WITHOUT A SUPPORT.
- Always use an overcut to cut small and freely hanging limbs. Undercutting could cause limbs to fall and pinch saw.

## PRUNING

**⚠ WARNING:** Limit pruning to limbs shoulder height or below. Do not cut if branches are higher than your shoulder. Get a professional to do the job.

- Make your first cut 1/3 of the way through the bottom of the limb.
- Next make a 2nd cut **all the way through the limb**. Then cut a third overcut leaving a 1 to 2 inch collar from the trunk of the tree.

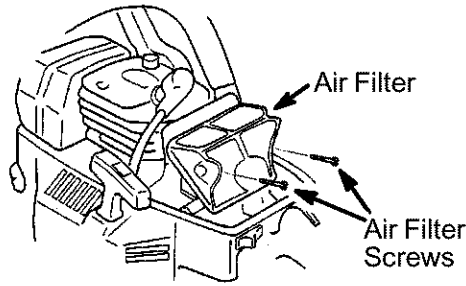


# SERVICE AND ADJUSTMENTS

**WARNING:** Muffler is very hot during and after use. Do not touch the muffler or allow combustible material such as dry grass or fuel to do so.

**WARNING:** Disconnect the spark plug before performing maintenance except for carburetor adjustments.

We recommend all service and adjustments not listed in this manual be performed by an Authorized Service Dealer.



## CARBURETOR ADJUSTMENTS

Your carburetor is equipped with limiter caps. Carburetor adjustment is a complicated task. We recommend that you take your unit to an Authorized Service Dealer. Damage will occur if you turn the needles beyond the limiter stops.

## BAR MAINTENANCE

If your saw cuts to one side, has to be forced through the cut, or been run with an improper amount of bar lubrication it may be necessary to service your bar. A worn bar will damage your chain and make cutting difficult. After each use, ensure ON/STOP switch is in the STOP position, then clean all sawdust from the guide bar and sprocket hole.

To maintain guide bar:

- Move ON/STOP switch to the STOP position.
- Loosen and remove chain brake nuts and chain brake. Remove bar and chain from saw.
- Clean the oil holes and bar groove after each 5 hours of operation.

MAINTENANCE SCHEDULE	
Lubricate bar sprocket hole . . . . .	After each use
<b>Check:</b>	
Fuel mixture level . . . . .	Before each use
Bar lubrication . . . . .	Before each use
Chain tension . . . . .	Before each use
Chain sharpness . . . . .	Before each use
For damaged parts . . . . .	Before each use
For loose caps . . . . .	Before each use
For loose fasteners . . . . .	Before each use
For loose parts . . . . .	Before each use
<b>Inspect and Clean:</b>	
Bar . . . . .	Before each use
Complete saw . . . . .	After each use
Air filter . . . . .	Every 5 hours*
Chain brake . . . . .	Every 5 hours*
Spark arresting screen and muffler . . . . .	Every 25 hours*
<b>Replace spark plug</b> . . . . .	Yearly
<b>Replace fuel filter</b> . . . . .	Yearly
* Hours of Operation	

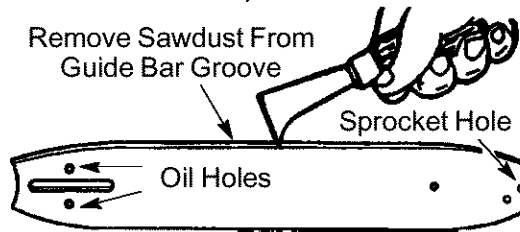
## AIR FILTER

**CAUTION:** Do not clean filter in gasoline or other flammable solvent to avoid creating a fire hazard or producing harmful evaporative emissions.

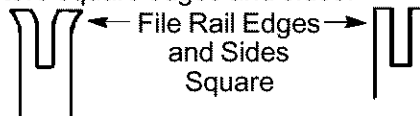
### Cleaning the air filter:

A dirty air filter decreases engine performance and increases fuel consumption and harmful emissions. Always clean after every 5 hours of operation.

- Clean the cover and the area around it to keep dirt and sawdust from falling into the carburetor chamber when the cover is removed.
- Remove the parts as illustrated.
- Wash the filter in soap and water. Rinse with clean cool water. Air dry completely before reinstalling.
- Reinstall parts.



- Add lubricant to sprocket hole after each use.
- Burring of guide bar rails is a normal process of rail wear. Remove these burrs with a flat file.
- When rail top is uneven, use a flat file to restore square edges and sides.



Replace guide bar when the groove is worn, the guide bar is bent or cracked, or when excess heating or burring of the rails occurs. If replacement is necessary, use only the guide bar specified for your saw in the repair parts list or on the decal located on the chain saw.

## CHAIN SHARPENING

Chain sharpening is a complicated task that requires special tools. We recommended you refer chain sharpening to a professional chain sharpener.

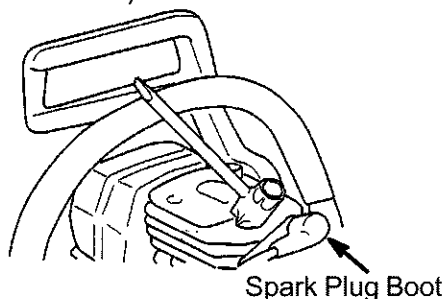
## IGNITION TIMING

Ignition timing is fixed and nonadjustable.

## SPARK PLUG

The spark plug should be replaced each year to ensure the engine starts easier and runs better.

- Loosen 3 screws on cylinder cover.
- Remove the cylinder cover.
- Pull off the spark plug boot.
- Remove spark plug from cylinder and discard.
- Replace with Champion RCJ-7Y spark plug and tighten with a 3/4 inch socket wrench (10-12 ft/lbs). Spark plug gap should be 0.025 inches.
- Reinstall the spark plug boot.
- Reinstall the cylinder cover and 3 screws (15-20 in/lbs).



## TROUBLESHOOTING TABLE

**WARNING:** Always stop unit and disconnect spark plug before performing all of the recommended remedies below except remedies that require operation of the unit.

TROUBLE	CAUSE	REMEDY
Engine will not start or will run only a few seconds after starting.	<ul style="list-style-type: none"> <li>• Ignition switch off.</li> <li>• Engine flooded.</li> <li>• Fuel tank empty.</li> <li>• Spark plug not firing.</li> <li>• Fuel not reaching carburetor.</li> </ul>	<ul style="list-style-type: none"> <li>• Move ignition switch to ON.</li> <li>• See "Difficult Starting" in Operation Section.</li> <li>• Fill tank with correct fuel mixture.</li> <li>• Install new spark plug.</li> <li>• Check for dirty fuel filter; replace. Check for kinked or split fuel line; repair or replace.</li> </ul>
Engine will not idle properly.	<ul style="list-style-type: none"> <li>• Carburetor requires adjustment</li> <li>• Crankshaft seals worn.</li> </ul>	<ul style="list-style-type: none"> <li>• Contact an Authorized Service Dealer.</li> <li>• Contact an Authorized Service Dealer.</li> </ul>
Engine will not accelerate, lacks power, or dies under a load.	<ul style="list-style-type: none"> <li>• Air filter dirty.</li> <li>• Spark plug fouled.</li> <li>• Carburetor requires adjustment.</li> </ul>	<ul style="list-style-type: none"> <li>• Clean or replace air filter.</li> <li>• Clean or replace plug and regap.</li> <li>• Contact an Authorized Service Dealer.</li> </ul>
Engine smokes excessively.	<ul style="list-style-type: none"> <li>• Too much oil mixed with gasoline.</li> </ul>	<ul style="list-style-type: none"> <li>• Empty fuel tank and refill with correct fuel mixture.</li> </ul>

## STORAGE

**WARNING:** Stop engine and allow to cool, and secure the unit before storing or transporting in a vehicle. Store unit and fuel in an area where fuel vapors cannot reach sparks or open flames from water heaters, electric motors or switches, furnaces, etc. Store unit with all guards in place. Position so that any sharp object cannot accidentally cause injury to passersby. Store the unit out of reach of children.

- Before storing, drain all fuel from the unit. Start engine and allow to run until it stops.
- Clean the unit before storing. Pay particular attention to the air intake area, keeping it free of debris. Use a mild detergent and sponge to clean the plastic surfaces.
- Do not store the unit or fuel in a closed area where fuel vapors can reach sparks or an open flame from hot water heaters, electric motors or switches, furnaces, etc.
- Store in a dry area out of the reach of children.

**CAUTION:** It is important to prevent gum deposits from forming in essential fuel system parts such as the carburetor, fuel filter, fuel hose, or fuel tank during storage. Alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to fuel mixture separation and formation of acids during storage. Acidic gas can damage the engine.

# LIMITED WARRANTY STATEMENT

## SECTION 1: LIMITED WARRANTY

**Husqvarna Forest & Garden Company ("Husqvarna")** warrants Husqvarna product to the original purchaser to be free from defects in material and workmanship from the date of purchase for the "Warranty Period" of the products as set forth below:

**Lifetime Warranty:** All tiller tines against breakage, trimmer shafts, ignition coils and modules on hand held product.

**3 Year Warranty:** Spindles (on Zero Turn Riders and Wide Area Walks)

**2 Year COMMERCIAL Warranty:** Husqvarna Commercial Turf Equipment - zero turn riders, wide area walks, and ground engaging commercial equipment.

**2 Year NON-COMMERCIAL Warranty:** Automatic mower, riding lawn mowers, yard and garden tractors, walk behind mowers, tillers, chain saws, trimmers, brushcutters, clearing saws, snow blowers, hand held blowers, backpack blowers, hedge trimmers, electric products and power-assist collection systems for non-commercial, non-professional, non-institutional or non-income producing use, except as herein stated.

Emission control system components necessary to comply with EPA regulations, except for those components which are part of engine systems manufactured by third party engine manufacturers for which the purchaser has received a separate warranty with product information supplied at time of purchase.

**1 Year Warranty:** Power cutters, stump grinder, hydraulic pole pruners and hydraulic pole saws for non-commercial, non-professional, non-institutional or non-income producing use.

All trimmers, brushcutters, clearing saws, hovering trimmers, stick edgers, backpack blowers, hand held blowers, hedge trimmers, model series 580 & 600 walk-behind mowers and power-assist collection systems used for commercial, institutional, professional, or income producing purposes or use.

**90 Day Warranty:** Automatic mower, chain saws, power cutters, stump grinders, trimmers, brushcutters, clearing saws, hovering trimmers, stick edgers, hedge trimmers, backpack blowers, hand held blowers, hydraulic pole saws, hydraulic pole pruners, snow throwers, commercial turf equipment or any Husqvarna product used for rental purposes or use except as otherwise provided herein.

**30 Day Warranty:** Husqvarna bow guide bars, replacement parts including bar and chains, product accessories, tools, display features and safety apparel.

## SECTION 2: HUSQVARNA'S OBLIGATIONS UNDER THE WARRANTY

Husqvarna will repair or replace defective components without charge for parts or labor if a component fails because of a defect in material or workmanship during the warranty period.

## SECTION 3: ITEMS NOT COVERED BY THIS WARRANTY

The following items are not covered by this warranty:

- (1) Normal customer maintenance items which become worn through normal regular use, including, but not limited to, belts, blades, blade adapters, bulbs, filters, guide bars, lubricants, rewind springs, saw chains, spark plugs, starter ropes and tines;
- (2) Natural discoloration of material due to ultraviolet light.
- (3) Engine and drive systems not manufactured by Husqvarna; these items are covered by the respective manufacturer's warranty as provided in writing with the product information supplied at the time of purchase; all claims must be sent to the appropriate manufacturer.
- (4) Lawn and garden attachments are covered by a third party which gives a warranty; all claims for warranty should be sent to the manufacturer; and
- (5) Emission control system components necessary to comply with EPA regulations which are manufactured by third party engine manufacturer.
- (6) Batteries have a one year prorated limited warranty with 100% replacement during the first 6 months.

## SECTION 4: EXCEPTIONS AND LIMITATIONS

This warranty shall be inapplicable to defects resulting from the following:

- (1) Accident, abuse, misuse, negligence and neglect, including stale fuel, dirt, abrasives, moisture, rust, corrosion, or any adverse reaction due to incorrect storage or use habits.
- (2) Failure to operate or maintain the unit in accordance with the instruction manual or instruction sheet furnished by Husqvarna.
- (3) Alterations or modifications that change the intended use of the product or affects the product's performance, operation, safety, or durability, or causes the product to fail to comply with any applicable laws.
- (4) Additional damage to parts or components due to continued use occurring after any of the above.

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE PURCHASER. HUSQVARNA SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THESE PRODUCTS EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW. ANY IMPLIED WARRANTY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THESE PRODUCTS IS LIMITED IN DURATION TO THE WARRANTY PERIOD AS

DEFINED IN THE LIMITED WARRANTY STATEMENT. HUSQVARNA RESERVES THE RIGHT TO CHANGE OR IMPROVE THE DESIGN OF THE PRODUCT WITHOUT NOTICE, AND DOES NOT ASSUME OBLIGATION TO UPDATE PREVIOUSLY MANUFACTURED PRODUCTS.

Some states do not allow the exclusion of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

### SECTION 5: CUSTOMER RESPONSIBILITIES

The product must exhibit reasonable care, maintenance, operation, storage and general upkeep as written in the maintenance section of the Owner's/Operator's manual. Should an operational problem or failure occur, the product should not be used, but delivered as is to an authorized Husqvarna dealer for evaluation. Proof of purchase, as explained in Section 6, rests solely with the customer.

### SECTION 6: PROCEDURE TO OBTAIN WARRANTY CONSIDERATION

It is the Owner's and Dealer's responsibility to make certain that the Warranty Registration Card is properly filled out and mailed to Husqvarna Forest & Garden Company. This card should be mailed within ten (10) days from the date of purchase in order to confirm the warranty and to facilitate post-sale service.

Proof of purchase must be presented to the authorized Husqvarna dealer in order to obtain warranty service. This proof must include date purchased, model number, serial number, and complete name and address of the selling dealer.

To obtain the benefit of this warranty, the product believed to be defective must be delivered to an authorized Husqvarna dealer in a timely manner, no later than thirty (30) days from date of the operational problem or failure. The product must be delivered at the owner's expense. Pick-up and delivery charges are not covered by this warranty. An authorized Husqvarna dealer can be normally located through the "Yellow Pages" of the local telephone directory or by calling 1-800-HUSKY62 for a dealer in your area.



7349 Statesville Road  
CHARLOTTE, NC 28269

## U.S. EPA / ENVIRONMENT CANADA EMISSION CONTROL WARRANTY STATEMENT

**YOUR WARRANTY RIGHTS AND OBLIGATIONS:** The U. S. Environmental Protection Agency/Environment Canada and HUSQVARNA are pleased to explain the emissions control system warranty on your lawn and garden equipment engine. All new utility and lawn and garden equipment engines must be designed, built, and equipped to meet the stringent anti-smog standards. HUSQVARNA must warrant the emission control system on your lawn and garden equipment engine for the periods of time listed below provided there has been no abuse, neglect, or improper maintenance of your lawn and garden equipment engine. Your emission control system includes parts such as the carburetor and the ignition system. Where a warrantable condition exists, HUSQVARNA will repair your lawn and garden equipment engine at no cost to you. Expenses covered under warranty include diagnosis, parts and labor. **MANUFACTURER'S WARRANTY COVERAGE:** If any emissions related part on your engine (as listed under Emissions Control Warranty Parts List) is defective or a defect in the materials or workmanship of the engine causes the failure of such an emission related part, the part will be repaired or replaced by HUSQVARNA. **OWNER'S WARRANTY RESPONSIBILITIES:** As the lawn and garden equipment engine owner, you are re-

sponsible for the performance of the required maintenance listed in your instruction manual. HUSQVARNA recommends that you retain all receipts covering maintenance on your lawn and garden equipment engine, but HUSQVARNA cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance. As the lawn and garden equipment engine owner, you should be aware that HUSQVARNA may deny you warranty coverage if your lawn and garden equipment engine or a part of it has failed due to abuse, neglect, improper maintenance, unapproved modifications, or the use of parts not made or approved by the original equipment manufacturer. You are responsible for presenting your lawn and garden equipment engine to a HUSQVARNA authorized repair center as soon as a problem exists. Warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days. If you have any questions regarding your warranty rights and responsibilities, you should contact your nearest authorized service center or call HUSQVARNA at 1-800-487-5962. **WARRANTY COMMENCEMENT DATE:** The warranty period begins on the date the lawn and garden equipment engine is purchased. **LENGTH OF COVERAGE:** This warranty shall be for a period of two years from the initial date of



purchase. **WHAT IS COVERED: REPAIR OR REPLACEMENT OF PARTS.** Repair or replacement of any warranted part will be performed at no charge to the owner at an approved HUSQVARNA servicing center. If you have any questions regarding your warranty rights and responsibilities, you should contact your nearest authorized service center or call HUSQVARNA at 1-800-487-5962 **WARRANTY PERIOD:** Any warranted part which is not scheduled for replacement as required maintenance, or which is scheduled only for regular inspection to the effect of "repair or replace as necessary" shall be warranted for 2 years. Any warranted part which is scheduled for replacement as required maintenance shall be warranted for the period of time up to the first scheduled replacement point for that part. **DIAGNOSIS:** The owner shall not be charged for diagnostic labor which leads to the determination that a warranted part is defective if the diagnostic work is performed at an approved HUSQVARNA servicing center. **CONSEQUENTIAL DAMAGES:** HUSQVARNA may be liable for damages to other engine components caused by the failure of a warranted part still under warranty. **WHAT IS NOT COVERED:** All failures caused by abuse, neglect, or improper main-

tenance are not covered. **ADD-ON OR MODIFIED PARTS:** The use of add-on or modified parts can be grounds for disallowing a warranty claim. HUSQVARNA is not liable to cover failures of warranted parts caused by the use of add-on or modified parts. **HOW TO FILE A CLAIM:** If you have any questions regarding your warranty rights and responsibilities, you should contact your nearest authorized service center or call HUSQVARNA at 1-800-487-5962 **WHERE TO GET WARRANTY SERVICE:** Warranty services or repairs shall be provided at all HUSQVARNA service centers. call: 1-800-487-5962 **MAINTENANCE, REPLACEMENT AND REPAIR OF EMISSION RELATED PARTS:** Any HUSQVARNA approved replacement part used in the performance of any warranty maintenance or repair on emission related parts will be provided without charge to the owner if the part is under warranty. **EMISSION CONTROL WARRANTY PARTS LIST:** Carburetor, Ignition System: Spark Plug (covered up to maintenance schedule), Ignition Module. **MAINTENANCE STATEMENT:** The owner is responsible for the performance of all required maintenance as defined in the instruction manual.

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The information on the product label indicates which standard your engine is certified.  
Example: (Year) EPA Phase 1 or Phase 2 and/or CALIFORNIA.

