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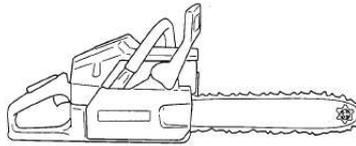
You can read the recommendations in the user guide, the technical guide or the installation guide for HUSQVARNA 137. You'll find the answers to all your questions on the HUSQVARNA 137 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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Husqvarna

Instruction Manual

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WARNING:

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

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Manual abstract:

15. 16. 17. 18. 19. 20. 21. 22. 23. 24.

21 10 9 1. Cylinder Cover 2. Front Handle 3. Front Hand Guard 4. Starter Cover 5.

Chain Oil Tank 6. Starter Handle 7. Carburetor Adjusting Screw 8. Choke Control 9. Rear Handle 10.

ON/STOP Switch 11. Fuel Tank 12. @@This chain saw can be dangerous! @@Contacting the guide bar tip with any object should be avoided; tip contact may cause the guide bar to move suddenly upward and backward, which may cause serious injury. XX_ Measured maximum kickback value without chain brake for the bar and chain combination on the label. 2 SAFETY RULES 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 woodcutting tool, special safety precautions must be observed to reduce the risk of accidents. Careless or improper use of this tool can cause serious injury. WARNING: OPERATE YOUR SAW SAFELY S 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. PLAN AHEAD S Read this manual carefully until you completely understand and can follow all safety rules, precautions, and operating instructions before attempting to use the unit.

S Restrict the use of your saw to adult users who understand and can follow safety rules, precautions, and operating instructions found in this manual.

Hearing Protection Snug Fitting Clothing Safety Hat Eye Protection Heavy Duty Gloves Safety Shoes Safety Chaps S 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. S Operate the chain saw only in a well-ventilated outdoor area. S Do not operate saw from a ladder or in a tree. S 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. S 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.

S Stop the engine before setting the saw down. S 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. S 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 S Wear protective gear.

Always use steeltoed 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. S Keep all parts of your body away from the chain when the engine is running. S 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. S 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. S 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. S Make certain the saw chain stops moving when the throttle trigger is released. For correction, refer to CARBURETOR ADJUSTMENTS. S Never modify your saw in any way.

S Keep the handles dry, clean, and free of oil or fuel mixture. S Keep fuel and oil caps, screws, and fasteners securely tightened. S Use only Husqvarna® accessories and replacement parts as recommended. HANDLE FUEL WITH CAUTION 3 S Do not smoke while handling fuel or while operating the saw. S

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. S 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. S Move at least 10 feet (3 meters) from fueling site before starting engine.

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



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

Clear The Working Area REDUCE THE CHANCE OF KICKBACK S Recognize that kickback can happen. With a basic understanding of kickback, you can reduce the element of surprise which contributes to accidents. S Never let the moving chain contact any object at the tip of the guide bar. S 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 through a particular log or branch. S 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 chain brake nuts are securely tightened after tensioning the chain.

S Begin and continue cutting at full speed. If the chain is moving at a slower speed, there is greater chance of kickback occurring. S Cut one log at a time. S Use extreme caution when re-entering a previous cut. S Do not attempt cuts starting with the tip of the bar (plunge cuts).

S Watch for shifting logs or other forces that could close a cut and pinch or fall into chain. S 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 4 Symmetrical Guide Bar Elbow locked Large Radius Tip Thumb on underside of handlebar S 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. S 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. S Stand with your weight evenly balanced on both feet. S Stand slightly to the left side of the saw to keep your body from being in a direct line with the cutting chain. S Do not overreach. You could be drawn or thrown off balance and lose control of the saw. S Do not cut above shoulder height. It is difficult to maintain control of saw above shoulder height.

S 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. Contoured Depth Gauge Elongated Guard Link Deflects kickback force and allows wood to gradually ride into cutter Low--- Kickback Chain Can Obstruct Material Not a Low--- Kickback Chain S Front Hand Guard, designed to reduce the chance of your left hand contacting the chain if your hand slips off the front handlebar. S 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. KICKBACK SAFETY FEATURES 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.

S 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. Reduced Kickback Symmetrical Guide Bar CHAIN BRAKE AND CKA ANGLE WARNING: S Chain Brake, designed to stop the chain in the event of kickback. Small Radius Tip 5 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 chainrings. Failure to do so is a violation of the law.

Refer to the SERVICE 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 Husqvarna service dealer. STANDARDS: This saw is listed by Underwriter's Laboratories, Inc., in accordance with: ANSI B175.1- 2000 American National Standards for Gasoline-Powered Chain Saws - Safety Requirements CSA Z62.1- 1995 Chain Saws Occupational Health and Safety CSA Z62.3- 1996 Chain Saw Kickback Occupational Health and Safety 6 ASSEMBLY Protective gloves (not provided) should be worn during assembly. already attached) 6. Prepare the chain by checking the proper direction.

Without following the illustration it is easy to place the chain on the saw in the wrong direction. Use the illustration of the chain to determine the proper direction. Tip of Bar ATTACHING THE BAR & CHAIN (If not WARNING: Recheck each assembly step if the saw is received assembled. Always wear gloves when handling the chain. The chain is sharp and can cut you even when it is not moving! 1. Loosen and remove the chain brake nuts and the chain brake from the saw. 2. Remove the plastic shipping spacer (if present). Location of shipping spacer CUTTERS MUST FACE IN DIRECTION OF ROTATION Cutters Depth Gauge Chain Brake Chain Brake Nuts Bar Tool 3. 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. Inside view of Chain Brake Drive Links 7.

Place chain over and behind clutch, fitting the drive links in the clutch drum sprocket. Adjustment located on Chain Brake 4. Turn the adjusting screw by hand counterclockwise until the adjusting pin just touches the stop.



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This should allow the pin to be near the correct position. Further adjustment may be necessary as you mount the bar.

5. Slide guide bar behind clutch drum until guide bar stops against clutch drum sprocket. Place chain onto the sprocket 8. Fit bottom of drive links between the teeth in the sprocket in the nose of the guide bar. 9. Fit chain drive links into bar groove. 10. Pull guide bar forward until chain is snug in guide bar groove. Ensure all drive links are in the bar groove. 11.

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. 12. 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 chain brake nuts are finger tight only. Attempting to tension the chain when the chain brake nuts are tight can cause damage. Checking the tension: Mount the Bar 7 Use the screwdriver end of the bar 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.

Guide Bar Adjusting Screw Chain Brake Nuts Chain Adjustment Tool (Bar Tool) Chain Brake Nuts Guide Bar Adjusting Screw - 1/4 Turn - 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 chain brake nuts and turning the adjusting screw 1/4 of a turn while lifting up on the bar.

S If chain is too tight, turn adjusting screw 1/4 turn counterclockwise. S If chain is too loose, turn adjusting screw 1/4 turn clockwise. S Lift up the tip of the bar and tighten the chain brake nuts with the combination screwdriver/wrench. S Recheck chain tension. Chain Brake Nuts **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 should be mixed with a good quality synthetic 2-cycle air-cooled engine oil designed to be mixed at a ratio of 40:1. (A 40:1 ratio is obtained by mixing 3.2 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. **IMPORTANT** 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. S Never use waste oil for bar and chain lubrication. S Always stop the engine before removing the oil cap.

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. 8 **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 ADJUSTMENTS** within this manual. Avoid contact with the muffler. A hot muffler can cause serious burns.

To stop the engine, move the ON/STOP 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. **ON/STOP SWITCH CHOKE/FAST IDLE LEVER FULL HALF OFF STARTING A WARM ENGINE:** 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.

1. Move ON/STOP switch to the ON position. 2. Pull the choke/fast idle lever out to the HALF CHOKE position. 3. Pull the starter rope quickly with your right hand until the engine starts. 4. Squeeze and release throttle trigger to allow engine to return to idle speed. **DIFFICULT STARTING** (or starting a flooded engine) **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. 1.

Move ON/STOP switch to the ON position. 2. Pull the choke/fast idle lever out to the full extent (to the FULL CHOKE position). 3. Pull starter rope quickly with your right hand a maximum of 10 times.

Then, proceed to the next step. **NOTE:** If the engine sounds as if it is trying to start before the 10th pull, stop pulling and immediately proceed to the next step. 4. Push the choke/fast idle lever in to the HALF CHOKE position. 5.

Pull the starter rope quickly with your right hand until the engine starts. 6. Allow the engine to run for approximately 5 seconds. Then, squeeze and release throttle trigger to allow engine to return to idle speed. 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. Ensure 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:** 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.



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The chain brake should be replaced by an authorized service dealer if any part is worn to less than 0.020 (0.5 mm) 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 servicing dealer, or to the nearest authorized Husqvarna service dealer. S This saw is equipped with a chain brake. The brake is designed to stop the chain if kickback occurs. S The inertia-activated chain brake is activated if the front hand guard is pushed forward, either manually (by hand) or automatically (by sudden movement). S If the brake is already activated, it is disengaged by pulling the front hand guard back toward the front handle as far as possible.

9 S When cutting with the saw, the chain brake must be disengaged. Disengaged Engaged 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 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. Braking function control CAUTION: The chain brake must be WARNING: When performing the following procedure, the engine must be turned off. Hold the chain saw approximately 14 (35 cm) above a stump or other wooden surface.

Release your grip on the front handle and use the weight of the saw to let the top of the guide bar fall forward and contact the stump. @@See CHAIN TENSION in the ASSEMBLY section. S Cut wood only. @@S Stop the saw if the chain strikes a foreign object. Inspect the saw and repair parts as necessary. S Keep the chain out of dirt and sand. @@@@S Begin cutting with the saw frame against the log. S Keep the engine at full speed the entire time you are cutting. S Allow the chain to cut for you. Exert only light downward pressure.

@@@@@S Stop the engine before setting the saw down. etc. @@S Carefully plan your sawing operation in advance. S Clear the work area.

@@@@@S The lean of the tree. @@Use a plumb or level to determine the direction of tree lean. S Weight and branches on one side. S Surrounding trees and obstacles. Look for decay and rot. If the trunk is rotted, it can snap and fall toward the operator.

@@Make sure there is enough room for the tree to fall. @@Engine noise can drown out a warning call. @@@@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.

S 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. NOTCH CUT AND FELLING THE TREE S 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. Final (felling) cut here. 2 (5 cm) above center of notch. First cut 5 cm 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 S Cut only one log at a time.

S Cut shattered wood very carefully; sharp pieces of wood could be flung toward operator. S 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. S 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. Notch 5 cm Second cut Hinge TYPES OF CUTTING USED FOR BUCKING S After removing the wood from the notch, 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 Opening of felling cut Closing of notch 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 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. S Be alert to signs that the tree is ready to fall: cracking sounds, widening of the felling cut, or movement in the upper branches.

S As tree starts to fall, stop saw, put it down, and get away quickly on your planned retreat path. 11 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. 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 WARNING: 1st Cut 2nd Cut LIMBING AND PRUNING Second cut Second cut 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 limbing 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 S Work slowly, keeping both hands firmly gripped on the saw. Maintain secure footing and balance. S Watch out for springpoles. Springpoles are small size limbs which can catch the saw chain and whip toward you or pull you off balance. Use extreme caution when cutting small size limbs. S Be alert for springback.



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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. S Keep a clear work area. Frequently clear branches out of the way to avoid tripping over them. First cut on compression side of log S Overcut through 1/3 of the diameter of the log.

S Roll the log over and finish with a second overcut. S Watch for logs with a compression side to prevent the saw from pinching. See illustration for cutting logs with a compression side. S Remember your first cut is always on the compressions side of the log. (Refer to the illustration below for your first and second cuts).

S Your first cut should extend 1/3 of the diameter of the log. S Finish with your second cut. Using a log for support 2nd Cut BUCKING WITHOUT A SUPPORT BUCKING USING A LOG OR SUPPORT STAND LIMBING 1st Cut 1st Cut 2nd Cut Using a support stand 2nd Cut S Always limb a tree after it is cut down. Only then can limbing be done safely and properly. S Leave the larger limbs underneath the felled tree to support the tree as you work. S Start at the base of the felled tree and work toward the top, cutting branches and limbs. Remove small limbs with one cut. S Keep the tree between you and the chain. Cut from the side of the tree opposite the branch you are cutting. S Remove larger, supporting branches with the cutting techniques described in BUCKING WITHOUT A SUPPORT.

S Always use an overcut to cut small and freely hanging limbs. Undercutting could cause limbs to fall and pinch the saw. PRUNING 1st Cut 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. 12 S Make your first cut 1/3 of the way through the bottom of the limb. S 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. Second cut Third cut Collar First cut Pruning technique SERVICE AND ADJUSTMENTS 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.

We recommend all service and adjustments not listed in this manual be performed by an authorized Husqvarna Service Dealer. MAINTENANCE SCHEDULE

Check: 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 Muffler

. . . Every 25 hours* Inspect and Clean: Bar

.

. Before each use Complete saw .

. After each use Air filter

. Every 5 hours* Chain brake .

.

. . . Every 5 hours* Replace spark plug . Yearly Replace fuel filter . .

. Yearly * Hours of Operation WARNING: 6. Reinstall cylinder cover and 3 screws. Tighten securely. Air Filter Air Filter Screws MUFFLER AND SPARK ARRESTING SCREEN WARNING: The muffler on this product contains chemicals known to the State of California to cause cancer. NOTE: THE SPARK ARRESTING SCREEN ON THIS UNIT IS NOT SERVICEABLE. For normal homeowner use, the muffler and spark arresting screen will not require replacement. After 75 hours of use, we recommend that your muffler be replaced by your authorized Husqvarna service dealer. CARBURETOR ADJUSTMENTS The chain will be moving during most of this procedure. Wear your protective equipment and observe all safety precautions.

The chain must not move at idle speed. The carburetor has been carefully set at the factory. Adjustments may be necessary if you notice any of the following conditions: S Chain moves at idle. See IDLE SPEED-T adjusting procedure. S Saw will not idle. See IDLE SPEED- ad-T justing procedure. 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 15 tanks of fuel or 5 hours of operation, whichever comes first. Clean more frequently in dusty conditions.

A used air filter can never be completely cleaned. It is advisable to replace your air filter with a new one after every 50 hours of operation, or annually, whichever comes first. 1. Loosen 3 screws on cylinder cover. 2.

Remove cylinder cover. 3. Remove air filter. 4. Clean the air filter using hot soapy water.

Rinse with clean cool water. Air dry completely before reinstalling. 5. Reinstall air filter. Idle Speed ---T 13 Allow engine to idle. If the chain moves, idle is too fast. If the engine stalls, idle is too slow. Adjust speed until engine runs without chain movement (idle too fast) or stalling (idle too slow). S Turn idle speed screw (T) clockwise to increase engine speed. S Turn idle speed screw (T) counterclockwise to decrease engine speed.

If you require further assistance or are unsure about performing this procedure, contact your authorized service dealer. 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: S Move ON/STOP switch to the STOP position. S Loosen and remove chain brake nuts and chain brake. Remove bar and chain from saw. S Clean the oil holes and bar groove after each 5 hours of operation. Remove Sawdust From Guide Bar Groove SPARK PLUG The spark plug should be replaced each year to ensure the engine starts easier and runs better. 1.

Loosen 3 screws on cylinder cover. 2. Remove the cylinder cover. 3. Pull off the spark plug boot.

4. Remove spark plug from cylinder and discard. 5. Replace with Champion RCJ-7Y spark plug nd tighten securely with a 3/4 inch (19 mm) socket wrench. Spark plug gap should be 0.

025 inches (0.6 mm). 6. Reinstall the spark plug boot. 7. Reinstall the cylinder cover and 3 screws. Tighten securely. Oil Holes S Burring of guide bar rails is a normal process of rail wear. Remove these burrs with a flat file. S When rail top is uneven, use a flat file to restore square edges and sides.

File Rail Edges and Sides Square Worn Groove Correct Groove 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. Spark Plug Boot STORAGE 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. WARNING: Stop engine and allow to cool, and secure the unit before storing or transporting in a vehicle.



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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. S Before storing, drain all fuel from the unit. Start engine and allow to run until it stops. S 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.

S 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. S 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.

14 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. CAUSE 1. Ignition switch off. 2. Engine flooded. 3. Fuel tank empty. 4. Spark plug not firing. 5.

Fuel not reaching carburetor. 1. Carburetor requires adjustment. 2. Crankshaft seals worn. 1. 2. 3. 4. Air filter dirty. Spark plug fouled. Chain brake engaged. Carburetor requires adjustment. TROUBLE Engine will not start or will run only a few seconds after starting.

REMEDY 1.

Move ignition switch to ON. 2. See "Difficult Starting" in Operation Section. 3. Fill tank with correct fuel mixture.

4. Install new spark plug. 5. Check for dirty fuel filter; replace. Check for kinked or split fuel line; repair or replace. 1. See "Carburetor Adjustment" in the Service and Adjustments Section. 2. Contact an authorized service dealer. 1.

2. 3. 4. Clean or replace air filter. Clean or replace plug and regap. Disengage chain brake. Contact an authorized service dealer. Engine will not idle properly. Engine will not accelerate, lacks power, or dies under a load. Engine smokes excessively.

Chain moves at idle speed. 1. Too much oil mixed with gasoline. 1. Idle speed requires adjustment.

2. Clutch requires repair. 1. Empty fuel tank and refill with correct fuel mixture. 1.

See "Carburetor Adjustment" in the Service and Adjustments Section. 2. Contact an authorized service dealer. **LIMITED WARRANTY STATEMENT** 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 Commercial Walk-Behinds). 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, electrical 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 CARB-TIER II and 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 SECTION 1: LIMITED WARRANTY warranty with product information supplied at time of purchase. 1 Year Warranty: Power cutters, stump grinder, pole pruners and pole saws for noncommercial, 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, and power-assist collection systems used for commercial, institutional, professional, or income producing purposes or use.

Batteries have a one year prorated limited warranty with 100% replacement during the first 6 months. 90 Day Warranty: Automatic mower, chain saws, power cutters, stump grinders, pole saws, pole pruners, snow throwers, model series 580 & 600 walk-behind mowers, and commercial turf equipment or any Husqvarna product used for commercial, institutional, professional, or income producing purposes or use except as otherwise provided herein. Husqvarna Safety Apparel carries a 90-day warranty from the date of the customer's original purchase for defects in material and workmanship. Normal wear, tear or abuse is not covered under warranty. Product must be returned to Charlotte with a warranty claim form. All care and maintenance instructions must be followed as stated by the manufacturer on the 15 care label. The fit of the protective apparel/boot is not covered under warranty. 30 Day Warranty:

Replacement parts, accessories including bars and chains, tools and display items. 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. 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 CARB-TIER II and EPA regulations which are manufactured by third party engine manufacturer. SECTION 3: ITEMS NOT COVERED BY THIS WARRANTY 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.



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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 SPONSIBILITIES RE- 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. 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 7349 Statesville Road CHARLOTTE, NC 28269 16 U.S. EPA/CALIFORNIA/ENVIRONMENT CANADA EMISSION CONTROL WARRANTY STATEMENT YOUR WARRANTY RIGHTS AND OBLIGATIONS: The U.S. Environmental Protection Agency, California Air Resources Board, Environment Canada and HUSQVARNA are pleased to explain the emissions control system warranty on your year 2005 and later small off-road engine. In California, all small off-road engines must be designed, built, and equipped to meet the State's stringent anti-smog standards. HUSQVARNA must warrant the emission control system on your small off-road engine for the periods of time listed below provided there has been no abuse, neglect, or improper maintenance of your small off-road engine.

Your emission control system includes parts such as the carburetor and the ignition system. Where a warrantable condition exists, HUSQVARNA will repair your small off-road engine at no cost to you. Expenses covered under warranty include diagnosis, parts and labor. @@@@ You are responsible for presenting your small offroad 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 small off-road 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 maintenance are not covered. ADD- ON OR MODIFIED PARTS: The use of add- or modi-on fied 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, Muffler including catalyst. MAINTENANCE STATEMENT: The owner is responsible for the performance of all required maintenance as defined in the instruction manual. 17 The information on the product label indicates which standard your engine is certified. Example: (Year) EPA Phase 1 or Phase 2 and/or CALIFORNIA. This engine is certified to be emissions compliant for the following use: Moderate (50 hours) Intermediate (125 hours) Extended (300 hours) 18 .



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