



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for HUSQVARNA 323 R II. You'll find the answers to all your questions on the HUSQVARNA 323 R II in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual HUSQVARNA 323 R II**  
**User guide HUSQVARNA 323 R II**  
**Operating instructions HUSQVARNA 323 R II**  
**Instructions for use HUSQVARNA 323 R II**  
**Instruction manual HUSQVARNA 323 R II**

**Operator's manual (EPA)**  
**323RII 327RX-series**  
**327RDX-series**

Please read the operator's manual carefully and make sure you understand the instructions before using the machine.



**English**



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**Manual abstract:**

Only use non-metallic, flexible cutting attachments, i.e. trimmer heads with trimmer cord. Max. speed of output shaft, rpm Other symbols/decals on the machine refer to special certification requirements for certain markets. The engine is switched off by moving the stop switch to the stop position. CAUTION! The stop switch automatically returns to the start position. In order to prevent unintentional starting, the spark plug cap must be removed from the spark plug when assembling, checking and/or performing maintenance. This product is in accordance with applicable CE directives. Always wear approved protective gloves.

Watch out for thrown objects and ricochets. Regular cleaning is required. The operator of the machine must ensure, while working, that no persons or animals come closer than 15 metres. 15 m 50FT 15 m 50FT Visual check. @@This is called blade thrust. The blade is capable of amputating an arm or leg. Always keep people and animals at least 15 metres from the machine. Arrows which show limits for handle positioning. Approved eye protection must always be used. Always wear approved protective gloves.

The engine exhaust from this product contains chemical known to the State of California to cause cancer, birth defects or other reproductive harm. 2 – English CONTENTS Contents KEY TO SYMBOLS Symbols CONTENTS Contents Note the following before starting: INTRODUCTION Dear customer! WHAT IS WHAT? What is what on the clearing saw? GENERAL SAFETY PRECAUTIONS Important Personal protective equipment Machine's safety equipment Cutting equipment ASSEMBLY Fitting the handlebar (323RII) Fitting the handlebar (327Rx, 327RDx) Assembling and dismantling the two-piece shaft (327RDx) Assembling the cutting equipment Fitting a blade guard, grass blade and grass cutter Fitting the blade guard and saw blade Fitting other guards and cutting attachments Adjusting the harness and clearing saw Standard harness FUEL HANDLING Fuel safety Fuel Fueling STARTING AND STOPPING Check before starting Starting and stopping WORKING TECHNIQUES General working instructions MAINTENANCE Carburetor Muffler Cooling system Bevel gear Air filter Two-piece shaft Spark plug Maintenance schedule TECHNICAL DATA Technical data FEDERAL AND CALIFORNIA EMISSIONS CONTROL WARRANTY STATEMENT YOUR WARRANTY RIGHTS AND OBLIGATIONS 2 3 3 4 5 6 6 7 10 12 12 13 14 14 14 15 16 16 17 17 18 19 19 21 26 28 29 29 30 30 31 32 Note the following before starting: Please read the operator's manual carefully. Maintenance, replacement, or repair of the emission control devices and system may be performed by any nonroad engine repair establishment or individual. !! WARNING! Long-term exposure to noise can result in permanent hearing impairment. So always use approved hearing protection. WARNING! Under no circumstances may the design of the machine be modified without the permission of the manufacturer. Always use genuine accessories. Non-authorized modifications and/or accessories can result in serious personal injury or the death of the operator or others. Your warranty may not cover damage or liability caused by the use of nonauthorized accessories or replacement parts. WARNING! A clearing saw, brushcutter or trimmer can be dangerous if used incorrectly or carelessly, and can cause serious or fatal injury to the operator or others.

It is extremely important that you read and understand the contents of this operator's manual. ! The Emissions Compliance Period referred to on the emissions compliance label indicates the number of operating hours for which the engine has shown to meet Federal and Californian emission requirements. 34 English – 3 INTRODUCTION Dear customer! Congratulations on your choice to buy a Husqvarna product! Husqvarna is based on a tradition that dates back to 1689, when the Swedish King Karl XI ordered the construction of a factory on the banks of the Huskvarna River, for production of muskets. The location was logical, since water power was harnessed from the Huskvarna River to create the waterpowered plant. During over 300 years of continuous operation, the Husqvarna factory has produced a lot of different products, from wood stoves to modern kitchen appliances, sewing machines, bicycles, motorcycles etc. In 1956, the first motor driven lawn mowers appeared, followed by chain saws in 1959, and it is within this area Husqvarna is working today.

Today Husqvarna is one of the leading manufacturers in the world of forest and garden products, with quality as our highest priority. We develop, manufacture and market high quality motor driven products for forestry and gardening as well as for building and construction industry. Your purchase gives you access to professional help with repairs and service whenever this may be necessary. If the retailer who sells your machine is not one of our authorized dealers, ask for the address of your nearest servicing dealer.

It is our wish that you will be satisfied with your product and that it will be your companion for a long time. Think of this operator's manual as a valuable document. By following its' content (using, service, maintenance etc) the life span and the second-hand value of the machine can be extended. If you ever lend or sell this machine, make sure that the borrower or buyer gets the operator's manual, so they will also know how to properly maintain and use it. Thank you for using a Husqvarna product.

Husqvarna AB has a policy of continuous product development and therefore reserves the right to modify the design and appearance of products without prior notice. For customer assistance, contact us at our website: [www.usa.husqvarna.com](http://www.usa.husqvarna.com) 4 – English WHAT IS WHAT? 3 2 1 29 8 7 30 9 4 18 19 20 1 21 22 6 5 17 32 11 10 31 14 15 16 12 13 24 4 23 25 28 27 26 What is what on the clearing saw? 1 2 3 4 5 6 7 8 9 Blade Grease filler cap, bevel gear Bevel gear Cutting attachment guard Shaft Handlebar Throttle control Stop switch Throttle lockout 17 Handle adjustment 18 Locking nut 19 Support flange 20 Support cup 21 Drive disc 22 Trimmer head 23 Socket spanner 24 Operator's manual 25 Transport guard 26 Allen key 27 Locking pin 28 Harness 29 Shaft coupling (327RDx) 30 Start throttle button 31 Adjusting screw for throttle cable 32 Spark plug cap and spark plug 10 Suspension 11 Cylinder cover 12 Starter handle 13 Fuel tank 14 Choke control 15 Air purge 16 Air filter cover English – 5 GENERAL SAFETY PRECAUTIONS Important IMPORTANT! The machine is only designed for trimming grass, grass clearing and/or forestry clearing.

The only accessories you can operate with this engine unit are the cutting attachments we recommend in the chapter on Technical data. Never use the machine if you are tired, if you have drunk alcohol, or if you are taking medication that could affect your vision, your judgement or your co-ordination. Wear personal protective equipment. See instructions under the heading Personal protective equipment.



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Never use a machine that has been modified in any way from its original specification. Never use a machine that is faulty. Carry out the checks, maintenance and service instructions described in this manual. Some maintenance and service measures must be carried out by trained and qualified specialists. See instructions under the heading Maintenance. All covers, guards and handles must be fitted before starting.

Ensure that the spark plug cap and ignition lead are undamaged to avoid the risk of electric shock. The machine operator must ensure that no people or animals come closer than 15 metres while working. When several operators are working in the same area the safety distance should be at least twice the tree height and no less than 15 metres. **WARNING!** The ignition system of this machine produces an electromagnetic field during operation. This field may under some circumstances interfere with pacemakers. To reduce the risk of serious or fatal injury, we recommend persons with pacemakers to consult their physician and the pacemaker manufacturer before operating this machine. **WARNING!** Running an engine in a confined or badly ventilated area can result in death due to asphyxiation or carbon monoxide poisoning. **WARNING!** Never allow children to use or be in the vicinity of the machine. As the machine is equipped with a springloaded stop switch and can be started by low speed and force on the starter handle, even small children under some circumstances can produce the force necessary to start the machine. This can mean a risk of serious personal injury.

Therefore remove the spark plug cap when the machine is not under close supervision. **GLOVES** Gloves should be worn when necessary, e.g., when fitting cutting attachments. Personal protective equipment **IMPORTANT!** A clearing saw, brushcutter or trimmer can be dangerous if used incorrectly or carelessly, and can cause serious or fatal injury to the operator or others.

It is extremely important that you read and understand the contents of this operator's manual. You must use approved personal protective equipment whenever you use the machine. Personal protective equipment cannot eliminate the risk of injury but it will reduce the degree of injury if an accident does happen. Ask your dealer for help in choosing the right equipment. **WARNING!** Listen out for warning signals or shouts when you are wearing hearing protection.

Always remove your hearing protection as soon as the engine stops. **! HELMET** A helmet should be worn if the trees being cleared are taller than 2 m. **HEARING PROTECTION** Wear hearing protection that provides adequate noise reduction. **! EYE PROTECTION** Always wear approved eye protection. If you use a visor then you must also wear approved protective goggles. Approved protective goggles must comply with standard ANSI Z87.1 in the USA or EN 166 in EU countries. **! ! 6 – English GENERAL SAFETY PRECAUTIONS BOOTS** Wear boots with steel toe-caps and non-slip sole. original positions. This movement is controlled by two independent return springs.

This arrangement means that the throttle control is automatically locked at the idle setting. **A B CLOTHING** Wear clothes made of a strong fabric and avoid loose clothing that can catch on twigs and branches. Always wear heavy, long pants. Do not wear jewellery, shorts sandals or go barefoot. Secure hair so it is above shoulder level. **FIRST AID KIT** Always have a first aid kit nearby. Make sure the throttle control is locked at the idle setting when the throttle lockout is released. Machine's safety equipment This section describes the machine's safety equipment, its purpose, and how checks and maintenance should be carried out to ensure that it operates correctly. See the "What is what?" section to locate where this equipment is positioned on your machine. The life span of the machine can be reduced and the risk of accidents can increase if machine maintenance is not carried out correctly and if service and/or repairs are not carried out professionally.

If you need further information please contact your nearest servicing dealer. **IMPORTANT!** All servicing and repair work on the machine requires special training. This is especially true of the machine's safety equipment. If your machine fails any of the checks described below you must contact your service agent. When you buy any of our products we guarantee the availability of professional repairs and service.

If the retailer who sells your machine is not a servicing dealer, ask him for the address of your nearest service agent. **WARNING!** Never use a machine with faulty safety equipment. The machine's safety equipment must be checked and maintained as described in this section. If your machine fails any of these checks contact your service agent to get it repaired. Press the throttle lockout and make sure it returns to its original position when you release it.

Check that the throttle control and throttle lockout move freely at is very important that you follow the instructions on checking, maintaining and servicing your machine. Never use a machine that has a faulty muffler. When fitting, tighten the nut in the opposite direction to the direction of rotation of the cutting attachment. To remove it, undo the nut in the same direction as the cutting attachment rotates. (**CAUTION!** The nut has a left-hand thread.) Tighten the nut using the socket spanner. When loosening and tightening the saw blade nut, there is a risk of injury from the teeth of the saw blade. You should therefore always ensure that your hand is shielded by the blade guard when doing this. Always use a socket spanner with a shaft that is long enough to allow this. The arrow in the diagram shows the area where you should operate the socket spanner when loosening or tightening the nut.

Regularly check that the muffler is securely attached to the machine. If the muffler on your machine is fitted with a spark arrestor screen this must be cleaned regularly. A blocked screen will cause the engine to overheat and may lead to serious damage. **! WARNING!** Mufflers fitted with catalytic converters get very hot during use and remain so for some time after stopping. This also applies at idle speed. Contact can result in burns to the skin. Remember the risk of fire! The nylon lining inside the locking nut must not be so worn that you can turn it by hand. The lining should offer a resistance of at least 1.5 Nm. The nut should be replaced after it has been put on approx.

10 times. English – 9 GENERAL SAFETY PRECAUTIONS Cutting equipment This section describes how to choose and maintain your cutting equipment in order to: ••• Reduce the risk of blade thrust. Obtain maximum cutting performance. Extend the life of cutting equipment. **IMPORTANT!** Only use cutting attachments with the guards we recommend! See the chapter on Technical data.

Refer to the instructions for the cutting attachment to check the correct way to load the cord and the correct cord diameter. Keep the teeth of the blade correctly sharpened! Follow our recommendations.



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Also refer to the instructions on the blade packaging. Maintain the correct blade setting! Follow our instructions and use the recommended file gauge.

**WARNING!** Always stop the engine before doing any work on the cutting attachment.

This continues to rotate even after the throttle has been released. Ensure that the cutting attachment has stopped completely and disconnect the HT lead from the spark plug before you start to work on it. **WARNING!** Using an incorrect cutting attachment or an incorrectly sharpened blade increases the risk of blade thrust. Keep the correct setting on the saw blade! Follow our instructions and use the recommended setting tool. An incorrectly set saw blade increases the risk of jamming and blade thrust, and damage to the saw blade. Keep the teeth of the blade correctly sharpened! Follow our instructions and use the recommended file gauge. An incorrectly sharpened or damaged blade increases the risk of accidents. Only use cutting attachments with the guards we recommend! See the chapter on Technical data. General rules !! Check the cutting attachment for damage or cracks. A damaged cutting attachment should always be replaced.

**Cutting equipment Saw blades** are intended for cutting fibrous types of wood. Grass blades and grass cutters are intended for cutting coarse grass.

**Sharpening grass cutters and grass blades** • See the cutting attachment packaging for correct sharpening instructions. Sharpen blades and cutters using a single-cut flat file. A trimmer head is intended for trimming grass. 10 – English **GENERAL SAFETY PRECAUTIONS** • Sharpen all edges equally to maintain the balance of the blade. round file. The top edges must be filed down by the same amount for all the teeth. ! **WARNING!** Always discard a blade that is bent, twisted, cracked, broken or damaged in any other way. Never attempt to straighten a twisted blade so that it can be reused.

Only use original blades of the specified type. Adjust the blade setting. This should be 1 mm. **Sharpening the saw blade** • See the cutting attachment packaging for correct sharpening instructions. A correctly sharpened blade is essential for working efficiently and to avoid unnecessary wear to the blade and clearing saw.

**Trimmer head IMPORTANT!** Always ensure the trimmer cord is wound tightly and evenly around the drum, otherwise the machine will generate harmful vibration. • Only use the recommended trimmer heads and trimmer cords. These have been tested by the manufacturer to suit a particular engine size. This is especially important when a fully automatic trimmer head is used. Only use the recommended cutting attachment.

See the chapter on Technical data. • Make sure that the blade is well supported when you file it. Use a 5.5 mm round file with a file holder. • Smaller machines generally require small trimmer heads and vice versa. This is because when clearing using a cord the engine must throw out the cord radially from the trimmer head and overcome the resistance of the grass being cleared. The length of the cord is also important. A longer cord requires greater engine power than a shorter cord of the same diameter. Make sure that the cutter on the trimmer guard is intact. This is used to cut the cord to the correct length.

To increase the life of the cord it can be soaked in water for a couple of days. This will make the line tougher so that it lasts longer. • • The filing angle is 15°. File alternate teeth to the right and those in between to the left. If the blade has been heavily pitted by stones it may be necessary to dress the top edges of the teeth with a flat file, in exceptional cases. If so, this should be done before filing with a • • English – 11 **ASSEMBLY** Fitting the handlebar (323RII) the machine is in a comfortable working position when it hangs from the harness. Tighten the knob. • • Remove the screw at the rear of the throttle handle. Slide the throttle handle onto the right side of the handlebar, (see diagram). Fitting the handlebar (327Rx, 327RDx) • • • • • Align the screw hole in the throttle handle with the hole in the handlebar.

Refit the screw in the hole in the rear of the throttle handle. Screw the screw through the handle and handlebar. Tighten it. Unscrew the knob from the handlebar mounting. Position the handlebar as shown.

Fit the mounting components and tighten the knob lightly. • Remove the screw at the rear of the throttle handle. Slide the throttle handle onto the right side of the handlebar, (see diagram). • • • • • Align the screw hole in the throttle handle with the hole in the handlebar. Refit the screw in the hole in the rear of the throttle handle.

Screw the screw through the handle and handlebar. Tighten it. Unscrew the knob from the handlebar mounting. • Put on the harness and hang the machine from the support hook. Now make a final adjustment so that 12 – English **ASSEMBLY** • Position the handlebar as shown. Fit the mounting components and tighten the knob lightly. • Push the attachment into the coupling until the attachment snaps into place. • Before using the unit, tighten the knob securely. • Put on the harness and hang the machine from the support hook. Now make a final adjustment so that the machine is in a comfortable working position when it hangs from the harness.

Tighten the knob. Dismantling • Loosen the coupling by turning the knob (at least 3 times). Assembling and dismantling the two-piece shaft (327RDx) • Push and hold the button (C). While securely holding the engine end, pull the attachment straight out of the coupling. Assembly • • Loosen the coupling by turning the knob. Align the tab of the attachment (A) with the arrow on the coupling (B). C B A English – 13 **ASSEMBLY** Assembling the cutting equipment • Hook the blade guard/combination guard (A) onto the fitting on the shaft and secure with the bolt. **CAUTION!** Use the recommended blade guard. See the Technical data section. • • Fit the drive disc (B) on the output shaft.

Turn the blade shaft until one of the holes in the drive disc aligns with the corresponding hole in the gear housing. Insert the locking pin (C) in the hole to lock the shaft. Place the blade (D), support cup (E) and support flange (F) on the output shaft. Fit the nut (G). The nut must be tightened to a torque of 35-50 Nm (3.

5-5 kpm). Use the socket spanner in the tool kit. Hold the shaft of the spanner as close to the blade guard as possible. To tighten the nut, turn the spanner in the opposite direction to the direction of rotation (Caution! left-hand thread). !! **WARNING!** When fitting the cutting attachment it is extremely important that the raised section on the drive disc/support flange engages correctly in the centre hole of the cutting attachment.

If the cutting attachment is fitted incorrectly it can result in serious and/or fatal personal injury.



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•••! **WARNING!** Never use a cutting attachment without an approved guard. See the chapter on Technical data. If an incorrect or faulty guard is fitted this can cause serious personal injury. **IMPORTANT!** If a saw blade or grass blade are to be used the machine must be equipped with the correct handlebar, blade guard and harness. Fitting a blade guard, grass blade and grass cutter Fitting the blade guard and saw blade K G F E J H D I A A B C •L Remove the mounting plate (H). Fit the adapter (I) and bracket (J) with the two screws (K) as shown. Fit the blade guard (A) to the adapter using the 4 screws (L) as shown. 14 – English **ASSEMBLY CAUTION!** Use the recommended blade guard. See the Technical data section.

G F D Fitting other guards and cutting attachments •Fit the trimmer guard/combination guard (A) intended for use with the trimmer head/plastic blades. Hook the guard onto the fitting on the shaft and secure it with the bolt (L). B C ••Fit the drive disc (B) on the output shaft. Turn the blade shaft until one of the holes in the drive disc aligns with the corresponding hole in the gear housing. Insert the locking pin (C) in the hole to lock the shaft. Place the blade (D) and support flange (F) on the output shaft. Fit the nut (G). The nut must be tightened to a torque of 35-50 Nm (3.5-5 kpm). Use the socket spanner in the tool kit.

Hold the shaft of the spanner as close to the blade guard as possible. To tighten the nut, turn the spanner in the opposite direction to the direction of rotation (Caution! left-hand thread). ••Fit the drive disc (B) on the output shaft. Turn the blade shaft until one of the holes in the drive disc aligns with the corresponding hole in the gear housing. Insert the locking pin (C) in the hole to lock the shaft.

Screw on the trimmer head/plastic blades (H) in the opposite direction to the direction of rotation. ••••• H H •To dismantle, follow the instructions in the reverse order. •When loosening and tightening the saw blade nut, there is a risk of injury from the teeth of the saw blade. You should therefore always ensure that your hand is shielded by the blade guard when doing this. Always use a socket spanner with a shaft that is long enough to allow this.

The arrow in the diagram shows the area where you should operate the socket spanner when loosening or tightening the nut. English – 15 **ASSEMBLY** Adjusting the harness and clearing saw Correct height Adjust the shoulder strap so that the cutting attachment is parallel to the ground. ! **WARNING!** When using a clearing saw it must always be hooked securely to the harness. Otherwise you will be unable to control the clearing saw safely and this can result in injury to yourself or others. Never use a harness with a defective quick release. Standard harness Correct balance Quick release At the front is an easily accessible, quick release. Use this if the engine catches fire or in any other emergency situation that requires you to free yourself from the machine and harness. Let the cutting attachment rest lightly on the ground. If you use a saw blade it should balance about 10 cm above the ground to prevent contact with stones and the like. Adjust the position of the suspension ring to balance the clearing saw correctly.

Spreading the load on your shoulders A well-adjusted harness and machine makes work much easier. Adjust the harness for the best working position. Tension the side straps so that the weight is evenly distributed across both shoulders. 16 – English **FUEL HANDLING** Fuel safety Never start the machine: 1 2 If you have spilled fuel on it. Wipe off the spillage and allow remaining fuel to evaporate. If you have spilled fuel on yourself or your clothes, change your clothes. Wash any part of your body that has come in contact with fuel. Use soap and water. If the machine is leaking fuel. Check regularly for leaks from the fuel cap and fuel lines.

Gasoline 3 **CAUTION!** Always use a quality gasoline/oil mixture with an octane rating of at least 87 octane ((RON+MON)/2). If your machine is equipped with a catalytic converter (see chapter on Technical data) always use a good quality unleaded gasoline/oil mixture. Leaded gasoline will destroy the catalytic converter. Use low-emission gasoline, also known as alkylate gasoline, if it is available. Transport and storage •Store and transport the machine and fuel so that there is no risk of any leakage or fumes coming into contact with sparks or naked flames, for example, from electrical machinery, electric motors, electrical relays/ switches or boilers.

When storing and transporting fuel always use approved containers intended for this purpose. When storing the machine for long periods the fuel tank must be emptied. Contact your local gas station to find out where to dispose of excess fuel. Ensure the machine is cleaned and that a complete service is carried out before long-term storage. The transport guard must always be fitted to the cutting attachment when the machine is being transported or in storage.

In order to prevent unintentional starting of the engine, the spark plug cap must always be removed during long-term storage, if the machine is not under close supervision and when performing all service measures. ••This engine is certified to operate on unleaded gasoline. •The lowest recommended octane grade is 87 ((RON+MON)/2). If you run the engine on a lower octane grade than 87 so-called knocking can occur. This gives rise to a high engine temperature and increased bearing load, which can result in serious engine damage. When working at continuous high revs a higher octane rating is recommended. ••••Two-stroke oil •For best results and performance use HUSQVARNA two-stroke engine oil, which is specially formulated for our air-cooled two stroke-engines. Never use two-stroke oil intended for water-cooled engines, sometimes referred to as outboard oil (rated TCW). Never use oil intended for four-stroke engines. Mixing ratio 1:50 (2%) with HUSQVARNA two-stroke oil.

Gasoline, litre 5 Two-stroke oil, litre 2% (1:50) 0,10 0,20 0,30 0,40 US fl. oz. 2 1/2 6 1/2 12 7/8 ! **Fuel WARNING!** Take care when handling fuel. Bear in mind the risk of fire, explosion and inhaling fumes. •**CAUTION!** The machine is equipped with a two-stroke engine and must always been run using a mixture of gasoline and two-stroke engine oil. It is important to accurately measure the amount of oil to be mixed to ensure that the correct mixture is obtained. When mixing small amounts of fuel, even small inaccuracies can drastically affect the ratio of the mixture. ••! **WARNING!** Fuel and fuel fumes are highly inflammable and can cause serious injury when inhaled or allowed to come in contact with the skin. For this reason observe caution when handling fuel and make sure there is adequate ventilation. 10 15 20 US gallon 1 2 1/2 5 English – 17 **FUEL HANDLING** Mixing ••Always mix the gasoline and oil in a clean container intended for fuel.



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Always start by filling half the amount of the gasoline to be used. Then add the entire amount of oil. Mix (shake) the fuel mixture. Add the remaining amount of gasoline. Mix (shake) the fuel mixture thoroughly before filling the machine's fuel tank.

Fueling ! WARNING! Taking the following precautions, will lessen the risk of fire: Do not smoke or place hot objects near fuel. Always shut off the engine before refuelling. Always stop the engine and let it cool for a few minutes before refuelling. When refuelling, open the fuel cap slowly so that any excess pressure is released gently. Tighten the fuel cap carefully after refuelling.

Always move the machine away from the refuelling area before starting. ••• Do not mix more than one month's supply of fuel at a time. If the machine is not used for some time the fuel tank should be emptied and cleaned. •• Clean the area around the fuel cap. Contamination in the tank can cause operating problems. Ensure that the fuel is well mixed by shaking the container before filling the tank. ! WARNING! The catalytic converter muffler gets very hot during and after use. This also applies during idling. Be aware of the fire hazard, especially when working near flammable substances and/ or vapours. 18 – English STARTING AND STOPPING Check before starting trimmer guard if they have been exposed to impact or are cracked.

• Check the blade to ensure that no cracks have formed at the bottom of the teeth or by the centre hole. The most common reason why cracks are formed is that sharp corners have been formed at the bottom of the teeth while sharpening or that the blade has been used with dull teeth. Discard a blade if cracks are found. •• Never use the machine without a guard nor with a defective guard. All covers must be correctly fitted and undamaged before you start the machine.

• Check that the support flange is not cracked due to fatigue or due to being tightened too much. Discard the support flange if it is cracked. Starting and stopping ! • Ensure the locking nut has not lost its captive force. The nut lock should have a locking force of at least 1.5 Nm.

The tightening torque of the locking nut should be 35-50 Nm. WARNING! The complete clutch cover and shaft must be fitted before the machine is started, otherwise the clutch can come loose and cause personal injury. Always move the machine away from the refuelling area before starting. Place the machine on a flat surface. Ensure the cutting attachment cannot come into contact with any object.

Make sure no unauthorised persons are in the working area, otherwise there is a risk of serious personal injury. The safety distance is 15 metres. • Check that the blade guard is not damaged or cracked. Replace the blade guard if it is exposed to impact or is cracked. Starting Primer bulb: Press the air purge repeatedly until fuel begins to fill the bulb.

The bulb need not be completely filled. • Check that the trimmer head and trimmer guard are not damaged or cracked. Replace the trimmer head or English – 19 STARTING AND STOPPING Choke: Set the choke control in the choke position. For throttle handles with a start throttle lock: Set the throttle to the start position by first pressing the throttle lockout and the throttle trigger, then pressing the start throttle button (A). Then release the throttle lockout and the throttle trigger, followed by the start throttle button. The throttle function is now activated. To return the engine to idle, press the throttle lockout and throttle trigger again. ! WARNING! When the engine is started with the choke in either the choke or start throttle positions the cutting attachment will start to rotate immediately. Hold the body of the machine on the ground using your left hand (CAUTION! Not with your foot!). Grip the starter handle, slowly pull out the cord with your right hand until you feel some resistance (the starter pawls grip), now quickly and powerfully pull the cord.

Never wrap the starter cord around your hand Repeat pulling the cord until the engine starts. When the engine starts, return choke control to run position and apply full throttle; the throttle will automatically disengage from the start setting. CAUTION! Do not pull the starter cord all the way out and do not let go of the starter handle when the cord is fully extended. This can damage the machine. Stopping Stop the engine by switching off the ignition. CAUTION! The stop switch automatically returns to the start position. In order to prevent unintentional starting, the spark plug cap must be removed from the spark plug when assembling, checking and/or performing maintenance. CAUTION! Do not put any part of your body in marked area. Contact can result in burns to the skin, or electrical shock if the spark plug cap has been damaged.

Always use gloves. Do not use a machine with damaged spark plug cap. 20 – English WORKING TECHNIQUES General working instructions IMPORTANT! This section describes the basic safety precautions for working with clearing saws and trimmers. If you encounter a situation where you are uncertain how to proceed you should ask an expert. Contact your dealer or your service workshop.

Avoid all usage which you consider to be beyond your capability. You must understand the difference between forestry clearing, grass clearing and grass trimming before use. 5 Take great care when cutting a tree that is under tension. A tree that is under tension may spring back to its normal position before or after being cut. If you position yourself incorrectly or make the cut in the wrong place the tree may hit you or the machine and cause you to lose control.

Both situations can cause serious personal injury. Basic safety rules 6 7 Keep a good balance and a firm foothold. Always hold the machine with both hands. @@@@CAUTION! @@Inspect the working area. @@@@Make sure you can move and stand safely. @@@@Switch off the engine before moving to another area. @@Make sure the equipment is well adjusted. Follow the safety precautions. Organise your work carefully. Always use full throttle when starting to cut with the blade.

Always use sharp blades. Avoid stones. Control the felling direction (take advantage of the wind). Working methods WARNING! @@This is called blade thrust. @@@@The bevel gear can get hot during use and may remain so for a while afterwards. You could get burnt if you touch it. WARNING! Watch out for thrown objects. Always wear approved eye protection. Never lean over the cutting attachment guard. Stones, rubbish, etc.

can be thrown up into the eyes causing blindness or serious injury. Keep unauthorised persons at a distance. Children, animals, onlookers and helpers should be kept outside the safety zone of 15 m. Stop the machine immediately if anyone approaches. Never swing the machine around without first checking behind you to make sure no one is within the safety zone.

WARNING! Sometimes branches or grass get caught between the guard and cutting attachment.



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Always stop the engine before cleaning. ••! ••Clear a strip around 75 m long. Move your fuel can as work progresses. On sloping ground you should work along the slope.

It is much easier to work along a slope than it is to work up and down it. You should plan the strip so that you avoid going over ditches or other obstacles on the ground. You should also orient the strip to take advantage of wind •22 – English WORKING TECHNIQUES conditions, so that cleared stems fall in the cleared area of the stand. 3 o'clock and 5 o'clock so that the direction of rotation of the blade pushes the bottom of the tree to the left. •Forestry clearing using a saw blade To fell a tree forwards, the bottom of the tree should be pulled backwards. Pull the blade backwards with a quick, firm movement. •The risk of blade thrust increases with increasing stem size. You should therefore avoid cutting with the area of the blade between 12 o'clock and 3 o'clock. •Large stems must be cut from two sides. First determine which direction the stem will fall.

Make the first cut on the felling side. Then finish cutting the stem from the other side. Adjust the cutting pressure to match the size of the stem and the hardness of the wood. Small stems require more pressure, while large stems require less pressure. •To fell to the left, the bottom of the tree should be pushed to the right. Tilt the blade and bring it diagonally down to the right, exerting firm pressure. At the same time push the stem using the blade guard. Cut with the area of the blade between 3 o'clock and 5 o'clock. Apply full throttle before advancing the blade. ••To fell to the right, the bottom of the tree should be pushed to the left.

Tilt the blade and bring it diagonally up to the right. Cut with the area of the blade between •If the stems are tightly packed, adapt your walking pace to suit. If the blade jams in a stem, never jerk the machine free. If you do this the blade, bevel gear, shaft or handlebar may be damaged. Release the handles, grip the shaft with both hands and gently pull the machine free.

English – 23 WORKING TECHNIQUES Brush cutting with a saw blade •Try to work rhythmically. Stand firmly with your feet apart. Move forward after the return stroke and stand firmly again. Let the support cup rest lightly against the ground. It is used to protect the blade from hitting the ground.

Reduce the risk of material wrapping around the blade by following these instructions: 1Always work at full throttle. 2Avoid the previously cut material during the return stroke. •Stop the engine, unclip the harness and place the machine on the ground before you start to collect the cut material. •••Thin stems and brush are mown down. Work with a sawing movement, swinging sideways. Try to cut several stems in a single sawing movement. With groups of hardwood stems, first clear around the group. Start by cutting the stems high up around the outside of the group to avoid jamming. Then cut the stems to the required height. Now try to reach in with the blade and cut from the centre of the group.

If it is still difficult to gain access, cut the stems high up and let them fall. This will reduce the risk of jamming. •Grass trimming with a trimmer head Trimming •Hold the trimmer head just above the ground at an angle. It is the end of the cord that does the work. Let the cord work at its own pace. Never press the cord into the area to be cut. Grass clearing using a grass blade •The cord can easily remove grass and weeds up against walls, fences, trees and borders, however it can also damage sensitive bark on trees and bushes, and damage fence posts. Reduce the risk of damaging plants by shortening the cord to 10-12 cm and reducing the engine speed. •••Grass blades and grass cutters must not be used on woody stems. A grass blade is used for all types of tall or coarse grass.

The grass is cut down with a sideways, swinging movement, where the movement from right-to-left is the clearing stroke and the movement from left-to-right is the return stroke. Let the left-hand side of the blade (between 8 and 12 o'clock) do the cutting. •Clearing •The clearing technique removes all unwanted vegetation. Keep the trimmer head just above the ground and tilt it. Let the end of the cord strike the ground around trees, posts, statues and the like.

CAUTION! This technique increases the wear on the cord. ••If the blade is angled to the left when clearing grass, the grass will collect in a line, which makes it easier to collect, e.g. by raking. •The cord wears quicker and must be fed forward more often when working against stones, brick, concrete, metal fences, etc.

, than when coming into contact with trees and wooden fences. When trimming and clearing you should use less than full throttle so that the cord lasts longer and to reduce the wear on the trimmer head. 24 – English WORKING TECHNIQUES Cutting •The trimmer is ideal for cutting grass that is difficult to reach using a normal lawn mower. Keep the cord parallel to the ground when cutting. Avoid pressing the trimmer head against the ground as this can ruin the lawn and damage the tool. •Do not allow the trimmer head to constantly come into contact with the ground during normal cutting. Constant contact of this type can cause damage and wear to the trimmer head. Sweeping •The fan effect of the rotating cord can be used for quick and easy clearing up. Hold the cord parallel to and above the area to be swept and move the tool to and fro. •When cutting and sweeping you should use full throttle to obtain the best results.

English – 25 MAINTENANCE Carburetor Your Husqvarna product has been designed and manufactured to specifications that reduce harmful emissions. After the engine has used 8-10 tanks of fuel the engine will be run-in. To ensure that it continues to run at peak performance and to minimise harmful exhaust emissions after the running-in period, ask your dealer/ service workshop (who will have a rev counter at their disposal) to adjust your carburettor. •The T-screw regulates the throttle setting at idle speed. If the T-screw is turned clockwise this gives a higher idle speed; turning it anti-clockwise gives a lower idle speed. Basic setting •The basic carburetor settings are adjusted during testing at the factory. The basic setting is richer than the optimal setting and should be maintained for the first few hours the machine is in use. The carburetor should then be finely adjusted. Fine adjustment should be carried out by a skilled technician. ! Function WARNING! The complete clutch cover and shaft must be fitted before the machine is started, otherwise the clutch can come loose and cause personal injury.

CAUTION! If the cutting attachment rotates when the engine is idling the idle adjustment screw T should be turned anti-clockwise until the cutting attachment stops.



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Rec. idle speed: 2700 rpm Recommended max. speed: See the Technical data section. • The carburetor governs the engine's speed via the throttle control. Air and fuel are mixed in the carburetor. The air/fuel mixture is adjustable. Correct adjustment is essential to get the best performance from the machine. The setting of the carburetor means that the engine is adapted to local conditions, for example, the climate, altitude, fuel and the type of 2-stroke oil. The carburetor has three adjustment controls: L = Low speed jet H = High speed jet T = Idle adjustment screw ! WARNING! If the idle speed cannot be adjusted so that the cutting attachment stops, contact your dealer/service workshop.

Do not use the machine until it has been correctly adjusted or repaired. • Fine adjustment • When the machine has been "run-in" the carburetor should be finely adjusted. The fine adjustment should be carried out by a qualified person. First adjust the L-jet, then the idling screw T and then the H-jet. • Conditions • Before any adjustments are made, make sure that the air filter is clean and the air filter cover is fitted. If you adjust the carburetor when the air filter is dirty it will result in a leaner mixture when the filter is finally cleaned. This can lead to serious engine damage. Carefully turn both jets, L and H, so that they are midway between fully screwed in and fully screwed out. Do not attempt to adjust the L and H jets beyond either stop as this could cause damage. Now start the machine according to the starting instructions and let it warm up for 10 minutes.

**CAUTION!** If the cutting attachment rotates when the engine is idling the idle adjustment screw T should be turned anti-clockwise until the cutting attachment stops. •••• The L and H-jets are used to adjust the supply of fuel to match the rate that air is admitted, which is controlled with the throttle. If they are screwed clockwise the air/fuel ratio becomes leaner (less fuel) and if they are turned anti-clockwise the ratio becomes richer (more fuel). A lean mixture gives a higher engine speed and a rich mixture gives a lower engine speed. 26 – English MAINTENANCE Low speed jet L Try to find the highest idling speed, turning the low speed needle L clockwise respectively counter-clockwise. When the highest speed has been found, turn the low speed needle L 1/4 turn counter-clockwise. High speed jet H The high speed jet H affects the engine power, speed, temperature and fuel consumption. If the high speed jet H is set too lean (screwed in too far) the engine speed will be too high and cause engine damage. Do not let the engine run at full speed for more than 10 seconds. **CAUTION!** If the cutting attachment rotates when the engine is idling the idle adjustment screw T should be turned anti-clockwise until the cutting attachment stops. Fine adjustment of the idle speed T Adjust the idle speed using the idle adjustment screw T, if it is necessary to readjust. First turn the idle adjustment screw T clockwise until the cutting attachment starts to rotate. Then turn the screw anticlockwise until the cutting attachment stops. The idle speed is correctly adjusted when the engine will run smoothly in every position. The idle speed should also be well below the speed at which the cutting attachment starts to rotate.

Apply full throttle and turn the high speed jet H very slowly clockwise until the engine slows down. Then turn the high speed jet H very slowly anticlockwise until the engine starts to run unevenly. Now turn the high speed jet H slowly clockwise a little way until the engine runs smoothly. Note that the engine should not be under load when you adjust the high speed jet H. You should therefore remove the cutting attachment, nut, support flange and drive disc before adjusting the high speed jet H.

The high speed jet H is adjusted correctly when the machine burbles a little. If the machine races then the setting is too lean. If the engine produces a lot of smoke and burbles a lot then the setting is too rich. H **CAUTION!** For optimum adjustment of the carburetor, contact a qualified dealer/service workshop that has a revolution counter at their disposal. ! **WARNING!** If the idle speed cannot be adjusted so that the cutting attachment stops, contact your dealer/service workshop. Do not use the machine until it has been correctly adjusted or repaired. Correctly adjusted carburetor When the carburetor is correctly adjusted the machine will accelerate without hesitation and burble a little at maximum speed. It is also important that the cutting attachment does not rotate at idle. If the low speed jet L is set too lean it may cause starting difficulties and poor acceleration. If the high speed jet H is set too lean it will result in less power, less performance, poor acceleration and/or damage to the engine.

If both the L and H jets are set too rich it will result in acceleration problems or too low a working speed. English – 27 MAINTENANCE Adjusting the start throttle speed The correct start throttle speed is set by means of an adjuster on the rear of the handle next to the cable. Use this screw (4 mm Allen screw) to increase or decrease the start throttle speed. **CAUTION!** Do not direct the flame against dry and combustible material. 4 mm Proceed as follows: 1 2 3 Run the machine at idle. Press the start throttle lock as described under the heading Starting and stopping. If the start throttle speed is too low (below 4000 rpm), turn the adjuster screw A clockwise until the cutting attachment starts to rotate. Then turn A clockwise a further 1/2 turn. If the start throttle speed is too high, turn the adjuster screw A anticlockwise until the cutting attachment stops. Then turn adjuster screw A clockwise a further 1/2 turn.

4 Some mufflers are equipped with a special spark arrestor screen. If your machine has this type of muffler, you should clean the screen at least once a week. This is best done with a wire brush. On mufflers without a catalytic converter the screen should be cleaned weekly, or replaced if necessary. On mufflers fitted with a catalytic converter the screen should be checked, and if necessary cleaned, monthly.

If the screen is damaged it should be replaced. If the screen is frequently blocked, this can be a sign that the performance of the catalytic converter is impaired. Contact your dealer to inspect the muffler. A blocked screen will cause the machine to overheat and result in damage to the cylinder and piston. !

Muffler **WARNING!** If the idle speed cannot be adjusted so that the cutting attachment stops, contact your dealer/service workshop. Do not use the machine until it has been correctly adjusted or repaired. **CAUTION!** Never use a machine with a defective muffler. ! **CAUTION!** Some mufflers are fitted with a catalytic converter. See chapter on Technical data to see whether your machine is fitted with a catalytic converter. The muffler is designed to reduce the noise level and to direct the exhaust gases away from the operator.



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3-1997, dB(A), min/max: *Vibration levels* Vibration levels at handles, measured according to ANSI B175.3-1997, m/s<sup>2</sup> At idle, left/right handles, min.: At idle, left/right handles, max.: At max. speed, left/right handles, min.: At max. speed, left/right handles, max.

: 2,1/2,0 2,7/2,8 3,2/2,8 4,8/4,4 1,7/1,9 2,0/2,0 2,4/1,8 7,2/8,2 1,7/1,9 2,0/2,0 2,4/1,8 7,2/8,2 92/94 94/96 94/96 11,2/5,1 11,9/5,4 12,3/5,6 Zama CIQ 1,06/0,5 Zama CIQ 1,06/0,5 Zama CIQ 1,06/0,5 Walbro MB 0,02/0,5 Walbro MB 0,02/0,5 Walbro MB 0,02/0,5 Champion RCJ 6Y Champion RCJ 6Y Champion RCJ 6Y 1,55/25,4 1,34/34 1,06/27 2700 11000-11700 9300 0,9/8400 Yes Yes 1,55/25,4 1,34/34 1,06/27 2700 11000-11700 9300 0,9/8400 Yes Yes 1,55/25,4 1,34/34 1,06/27 2700 11000-11700 9300 0,9/8400 Yes Yes 323RII 327Rx 327RDx Note 1: Equivalent noise pressure level is calculated as the time-weighted energy total for noise pressure levels under various working conditions with the following time distribution: 1/2 idle and 1/2 max. speed. NOTE! Noise pressure at the user's ear and vibration on the handles are measured with all the machine's approved cutting equipment fitted. The table indicates the highest and lowest values. 32 – English TECHNICAL DATA Approved accessories Centre hole in blades/cutters, Ø 25,4 mm Arbor shaft thread M10 Grass blade/grass cutter Saw blade Plastic blades Grass 255-4 1" (Ø 255 4-teeth) Grass 255-8 1" (Ø 250 8-teeth) Scarlet 200-22 1" (Ø 200 22 teeth) Tricut Ø 300 mm T25 Trimmer head S35 T35, T35x Support cup Fixed 503 93 42-02 503 93 42-02 537 02 21-01 503 93 42-02 / 503 97 71-01 503 93 42-02 / 503 97 71-01 503 93 42-02 / 503 97 71-01 Type Cutting attachment guard, Art.

no. English – 33 FEDERAL AND CALIFORNIA EMISSIONS CONTROL WARRANTY STATEMENT YOUR WARRANTY RIGHTS AND OBLIGATIONS The EPA (U.S. Environmental Protection Agency), CARB (California Air Resources Board), Environment Canada and Husqvarna Forest & Garden are pleased to explain the emissions control system's warranty on your 2009 and later small off-road engine. In U.S. and Canada, new equipment that use small off-road engines must be designed, built, and equipped to meet the applicable Federal or Californian stringent anti-smog standards. Husqvarna Forest & Garden must warrant the emissions control system on your small off-road engine for the period listed below provided there has been no abuse, neglect or improper maintenance of your equipment. Your emissions control system may include parts such as the carburetor, ignition system, catalytic converter, fuel tank, filters and other associated components. Also, included may be hoses, belts, connectors, sensors, and other emission-related assemblies. Where a warrantable condition exists, Husqvarna Forest & Garden will repair your small off-road engine at no cost to you including diagnosis, parts and labor. WARRANTY COMMENCEMENT DATE The warranty period begins on the date the engine or equipment is delivered to an ultimate purchaser. LENGTH OF COVERAGE Husqvarna Forest & Garden warrants to the ultimate purchaser and each subsequent owner that the engine or equipment is designed, built, and equipped so as to conform with all applicable regulations adopted by EPA and CARB, and is free from defects in materials and workmanship that causes the failure of a warranted part for a period of two years. WHAT IS COVERED REPAIR OR REPLACEMENT OF PARTS Repair or replacement of any warranted part under the warranty must be performed at no charge to the owner at a warranty station. Warranty services or repairs will be provided at all Husqvarna Forest & Garden distribution centers that are franchised to service the subject engines.

Throughout the emissions warranty period of two years, Husqvarna Forest & Garden must maintain a supply of warranted parts sufficient to meet the expected demand for such parts. WARRANTY PERIOD Any warranted part that is scheduled for replacement as required in the maintenance schedule, is warranted for the period of time prior to the first scheduled replacement point for that part. If the part fails prior to the first scheduled replacement, the part will be repaired or replaced by Husqvarna Forest & Garden at no cost. Any such part repaired or replaced under warranty is warranted for the remainder of the period prior to the first scheduled replacement point for the part. Any warranted part that is not scheduled for replacement as required in the maintenance schedule, is warranted for two years. If any such part fails during the period of warranty coverage, it will be repaired and replaced by Husqvarna Forest & Garden at no cost. Any such part repaired or replaced under the warranty is warranted for the remaining warranty period. Any warranted part that is scheduled only for regular inspection in the maintenance schedule will be warranted for a period of two years. A statement in such written instructions to the effect of "repair or replace as necessary" will not reduce the period of warranty coverage. Any such part repaired or replaced under warranty will be warranted for the remaining warranty period.

DIAGNOSIS The owner must not be charged for diagnostic labor that leads to the determination that a warranted part is in fact defective, provided that such diagnostic work is performed at a warranty station. CONSEQUENTIAL DAMAGES Husqvarna Forest & Garden is liable for damages to other engine components proximately caused by a failure under warranty of any warranted part. MANUFACTURER'S WARRANTY COVERAGE The emissions control system is warranted for two years. If any emissions-related part on your equipment is defective, the part will be repaired or replaced by Husqvarna Forest & Garden. OWNER'S WARRANTY RESPONSIBILITIES • As the small off-road engine owner, you are responsible for performance of the required maintenance listed in your operator's manual.

Husqvarna Forest & Garden recommends that you retain all receipts covering maintenance on your small off-road engine, but Husqvarna Forest & Garden cannot deny warranty solely for the lack of receipts or your failure to ensure the performance of all scheduled maintenance. As the small off-road engine owner, you should however be aware that Husqvarna Forest & Garden may deny you warranty coverage if your small off-road engine or a part has failed due to abuse, neglect, or improper maintenance or unapproved modifications. You are responsible for presenting your small off-road engine to a Husqvarna Forest & Garden distribution center or service center as soon as the problem exists. The 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 servicing dealer or call Husqvarna Forest & Garden at 1-800-487-5951 or visit [www.husqvarna.com](http://www.husqvarna.com).



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