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You can read the recommendations in the user guide, the technical guide or the installation guide for MAKITA UC3520A. You'll find the answers to all your questions on the MAKITA UC3520A 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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Manual abstract:

@@@ Specifications may differ from country to country. @@Be sure that you understand their meaning before use. . Read instruction manual and follow the warnings and safety instructions. Wear a helmet, goggles and ear protection! Only for EU countries Do not dispose of electric equipment together with household waste material! In observance of European Directive 2002/96/EC on waste electrical and electronic equipment and its implementation in accordance with national law, electric equipment that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility. Power supply ENF002-1 The tool should be connected only to a power supply of the same voltage as indicated on the nameplate, and can only be operated on single-phase AC supply. They are double-insulated in accordance with European Standard and can, therefore, also be used from sockets without earth wire. The operation of this device under unfavorable mains conditions can have adverse effects to the operation of other equipment. With a mains impedance equal or less than 0.35 Ohms it can be presumed that there will be no negative effects.

The mains socket used for this device must be protected with a fuse or protective circuit breaker having slow tripping characteristics. Keep all parts of the body away from the saw chain when the chain saw is operating. Before you start the chain saw, make sure the saw chain is not contacting anything. A moment of inattention while operating chain saws may cause entanglement of your clothing or body with the saw chain. 2.

Always hold the chain saw with your right hand on the rear handle and your left hand on the front handle. Holding the chain saw with a reversed hand configuration increases the risk of personal injury and should never be done. 3. Hold the power tool by insulated gripping surfaces only, because the saw chain may contact hidden wiring or its own cord. Saw chains contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.

4. Wear safety glasses and hearing protection. @@@@ 5. Do not operate a chain saw in a tree. @@ 6. @@When the tension in the wood fibres is released the spring loaded limb may strike the operator and/or throw the chain saw out of control. 8. Use extreme caution when cutting brush and saplings. The slender material may catch the saw chain and be whipped toward you or pull you off balance. 9.

Carry the chain saw by the front handle with the chain saw switched off and away from your body. When transporting or storing the chain saw 9 Proper handling of the chain saw will reduce the likelihood of accidental contact with the moving saw chain. Improperly tensioned or lubricated chain may either break or increase the chance for kickback. 11. Keep handles dry, clean, and free from oil and grease. Do not use chain saw for purposes not intended. For example: do not use chain saw for cutting plastic, masonry or non-wood building materials. Use of the chain saw for operations different than intended could result in a hazardous situation. 13. Causes and operator prevention of kickback: Kickback may occur when the nose or tip of the guide bar touches an object, or when the wood closes in and pinches the saw chain in the cut.

Tip contact in some cases may cause a sudden reverse reaction, kicking the guide bar up and back towards the operator. Pinching the saw chain along the top of the guide bar may push the guide bar rapidly back towards the operator. Either of these reactions may cause you to lose control of the saw which could result in serious personal injury. Do not rely exclusively upon the safety devices built into your saw. As a chain saw user, you should take several steps to keep your cutting jobs free from accident or injury.

Kickback is the result of tool misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below: - Maintain a firm grip, with thumbs and fingers encircling the chain saw handles, with both hands on the saw and position your body and arm to allow you to resist kickback forces. Kickback forces can be controlled by the operator, if proper precautions are taken. 1) - Do not overreach and do not cut above shoulder height. This helps prevent unintended tip contact and enables better control of the chain saw in unexpected situations. The chain saw must not be used by children or young persons under 18 years of age.

Young persons over 16 years of age may be exempted from this restriction if they are undergoing training under the supervision of an expert. 4. Working with the chain saw requires a high level of concentration. Do not work with the saw if you are not feeling fit and well. Carry out all work calmly and carefully. Do not use it for example to cut plastic or porous concrete. 2. Only use the chain saw for operations described in this instruction manual. Do not, for example, use it to trim hedges or for similar purposes. 3.

The chain saw must not be used for forestry work, i. The chain saw cable does not provide the operator with the mobility and safety required for such work. 4. The chain saw is not intended for commercial use. Clothing must be close-fitting, but must not obstruct mobility. 2. Wear the following protective clothing during work: · A tested safety helmet, if a hazard is presented by falling branches or similar; · a face mask or goggles; · Suitable ear protection (ear muffs, custom or mouldable ear plugs). Safety shoes or boots with non-slip soles, steel toes, and cut-resistant fabric lining; · A breathing mask, when carrying out work which produces dust (e. The chain saw must not be used in wet weather or damp environments, as the electric motor is not waterproof. 1.

Only plug the saw into sockets in tested electrical circuits. Saws used in the open air must be connected to a residual current-operated circuit-breaker with an operating current no higher than 30 mA. @@ 2. @@@@ When using a cable reel, wind the cable completely off the reel. @@ 3.

@@ 4. @@ 5. Work only on firm ground and with a good footing. @@Do not stand on ladders or trees when using the saw. 6.

@@ 7. Never cut above shoulder height. 8. Hold the chain saw with both hands when switching it on and using it. @@ hold the handles firmly with your thumbs. The bar and the chain must not be in contact with any objects when the saw is switched on. Clean the area to be cut of foreign objects such as sand, stones, nails, wire, etc. Foreign objects damage the bar and chain, and can lead to dangerous kickback. 10. Take particular care when cutting in the vicinity of wire fences.

Do not cut into the fence, as the saw may kick back. 11. Do not cut into the ground. 12. Cut pieces of wood singly, not in bunches or stacks. 13. Avoid using the saw to cut thin branches and roots, as these can become entangled in the chain saw. Use a secure support (trestle) when cutting sawn timber. 15. Do not use the chain saw to prise off or brush away pieces of wood and other objects.



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16. Guide the chain saw such that no part of your body is within the extended path of the saw chain. When moving around between sawing operations, apply the chain brake in order to prevent the chain from being operated unintentionally. Hold the chain saw by the front handle when carrying it, and do not keep your finger on the switch. Withdraw the mains plug when taking breaks or leaving the chain saw unattended.

Leave the chain saw where it cannot present a hazard. 18. Withdraw the mains plug when taking breaks or leaving the chain saw unattended. Leave the chain saw where it cannot present a hazard. Hazardous kickback may arise during work with the chain saw.

Kickback arises when the tip of the bar (in particular the upper quarter) comes into contact with wood or another solid object. This causes the chain saw to be deflected in the direction of the operator. Never begin the cut with the tip of the bar. Take particular care when resuming cuts which have already been started. Never saw through several branches at a time. When limbing, take care to prevent the bar from coming into contact with other branches. When bucking, keep clear of adjacent trunks. Always check that the safety features are in working order before starting work. Do not use the chain saw if the safety features are not working properly. Chain brake: The chain saw is fitted with a chain brake which brings the saw chain to a standstill within a fraction of a second.

It is activated when the hand guard is pushed forwards. The saw chain then stops within 0.4 s. 4) Run-down brake: The chain saw is equipped with a run-down brake which brings the saw chain to an immediate stop when the ON/OFF switch is released. This prevents the saw chain from running on when switched off, and thus presenting a hazard. 1. Do not store the chain saw outdoors. 2. Clean the chain saw regularly. Do not use the saw if the switch trigger is not working properly.

3. Any other work must be carried out by MAKITA Service. 8. The use of other parts increases the risk of accident. 9. Before plugging in the tool, always check that the switch trigger must return automatically to the OFF position, and the lock-off button must return to its original position. 10. Pull the hand guard backwards firmly until you feel it engage. Hold the chain saw with both hands when switching it on. 11. The bar and the chain must not be in contact with any object. First press the lock-off button, then the switch trigger. The saw chain starts immediately.

Press the hand guard forwards using the back of your hand. The saw chain must come to an immediate standstill. 12. The saw chain must come to a standstill within one second. 13. Consult a MAKITA specialist repair shop. 14. The oil level can be seen in the sight glass shown in the figure.

15. Contact with the eyes causes irritation. In the event of eye contact, flush the affected eye immediately with clear water, then consult a doctor at once. Never use waste oil. Waste oil contains carcinogenic substances. The contaminants in waste oil cause accelerated wear of the oil pump, the bar and the chain.

16. The oil delivery may otherwise be impaired. 17. (Fig. 30) Screw the oil filler cap firmly back in place. Wipe away any spilt chain oil carefully. 18. Run the saw without load until it does so (see "CHECKS"). 19. Observe the wind direction, and do not attempt to perform inspection or maintenance. Always wear gloves when performing any inspection or maintenance. Carry out the maintenance work described below at regular intervals.

20. Clean the saw regularly with a clean rag. The handles, in particular, must be kept free of oil.

Carry out regular visual inspections of all parts of the housing. 21. (Fig. 31) Sharpen the saw chain when: - Mealy sawdust is produced when damp wood is cut; - The chain penetrates the wood with difficulty, even when heavy pressure is applied; - The cutting edge is obviously damaged; - The saw pulls to the left or right in the wood. The reason for this behaviour is uneven sharpening of the saw chain, or damage to one side only. Sharpen the saw chain frequently, but remove only a little material each time.

Two or three strokes with a file are usually sufficient for routine resharpening. When the saw chain has been resharpened several times, have it sharpened in a MAKITA specialist repair shop. sharpening criteria: - All cutters must be of equal length (dimension a). Cutters of differing length prevent the chain from running smoothly, and may cause the chain to break. - Do not sharpen the chain once a minimum cutter length of 3 mm has been reached.

A new chain must then be fitted. - The chip thickness is determined by the distance between the depth gauge (round nose) and the cutting edge. The best cutting results are obtained with a distance of 0. An excessive distance increases the risk of kick-back. - The sharpening angle of 30° distance must be the same on all cutters. Differences in angle cause the chain to run roughly and unevenly, accelerate wear, and lead to chain breaks. If the specified file is used properly, the correct side plate angle is produced automatically. File and file guiding - Use a special round file (optional accessory) for saw chains, with a diameter of 4.5 mm, to sharpen the chain. Normal round files are not suitable.

(Fig. 34) - The file should only engage the material on the forward stroke. Lift the file off the material on the return stroke. - Sharpen the shortest cutter first. The length of this cutter is then the gauge dimension for all other cutters on the saw chain. 22. Round off the front of the depth gauge again.

Always wear safety gloves for this task. Burrs present a risk of injury. 23. Before adding new fresh grease, carefully clean the 2 mm hole on the tip of the guide bar, then force a small quantity of multi-purpose grease (optional accessory) into the hole. - Clean the oil guide groove and the oil feed hole in the bar at regular intervals.

Use two or three saw chains alternately, so that the saw chain, sprocket and running surfaces of the bar wear evenly. Turn the bar over when changing the chain so that the bar groove wears evenly. CAUTION: - Only use chains and bars which are approved for this model of saw (refer to "SPECIFICATIONS"). (Fig. 39) Before fitting a new saw chain, check the condition of the sprocket.

Always fit a new locking ring when replacing the sprocket. The braking systems are very important safety features. Like any other component of the chain saw, they are subject to a certain degree of wear. They must be inspected regularly by a MAKITA specialist repair shop. This measure is for your own safety.

24. When the chain saw is taken out of service, small quantities of chain oil will leak from it for some time afterwards. This is normal, and is not a sign of a fault. Store the chain saw on a suitable surface. Before returning the chain saw to service, fill up with fresh BIOTOP saw chain oil. To maintain product SAFETY and RELIABILITY, repairs, any other maintenance or adjustment should be performed by Makita Authorized Service Centers, always using Makita replacement parts.



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Makita Service Center can be found on the Internet at: [www:makita](http://www.makita). Grease gun For European countries only ENH026-1 EC Declaration of Conformity We Makita Corporation as the responsible manufacturer declare that the following Makita machine(s): Designation of Machine: Chain Saw Model No. / Type: UC3020A, UC3520A, UC4020A are of series production and Conforms to the following European Directives: 2000/14/EC, 98/37/EC until 28th December 2009 and then with 2006/42/EC from 29th December 2009 And are manufactured in accordance with the following standards or standardised documents: EN60745 The EC Type-Examination per 98/37/EC and 2006/42/EC was performed by: TÜV SÜD Product Service GmbH, Zertifizierstelle, Ridlerstrasse 65, 80339 München, Germany Identification No. .



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