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You can read the recommendations in the user guide, the technical guide or the installation guide for MAKITA EA3200S. You'll find the answers to all your questions on the MAKITA EA3200S 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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Instruction Manual
Manuel d'instructions
Manual de instrucciones
Manual de instruções

Important:
Read this instruction manual carefully before putting the chain saw into operation and strictly observe the safety regulations!
Keep this instruction manual!

Attention:
Lire attentivement ce manuel avant la première mise en service et observer impérativement les consignes de sécurité!
Garder avec soins le manuel des instructions d'emploi!

Atención:
Es indispensable leer con mucha atención las instrucciones de manejo antes de utilizar la motosierra por primera vez.
Preste especial atención a las recomendaciones de seguridad! Conserve cuidadosamente estas instrucciones de manejo.

Atenção:
Antes da primeira colocação em serviço, ler atentamente estas instruções de serviço e seguir sem falta as normas de segurança! Guardar bem as instruções de serviço!

**EA3200S
EA3201S
EA3202S
EA3203S
EA3201SG
EA3203SG**



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Manual abstract:

For some countries the saw is also equipped with a catalytic converter. This reduces the amount of pollutants in the exhaust, and meets European Guideline 2002/88/EC. MAKITA chain saws EA3200S, EA3201S, EA3202S, EA3203S, EA3201SG, EA3203SG are equipped with the latest safety features and meet all national and international standards. @@@@Be especially careful to observe all safety precautions! Failure to observe these precautions can lead to severe injury or death! □ nly for models with fastening nuts on O the sprocket guard. 20 7a-1. Mounting the guide bar and saw chain. Mounting the guide bar and saw chain. Only for models with quick tensioner on 7 sprocket guard (TLC). 22 7c-1. Mounting the guide bar and saw chain .

Cleaning the inside of the sprocket guard . Replacing the starter cable/ Replacing the return spring pack/Replacing the starter spring . Extract from the spare parts list. Instruction manual (not shown) In case one of the parts listed should not be included in the delivery inventory, please consult your sales agent.

Symbols You will notice the following symbols on the saw and in the Instruction Manual: Read instruction manual and follow the warning and safety precautions! Wear protective helmet, eye and ear protection! Chain brake Fuel and oil mixture Chain oil fill/oil pump Saw chain oil adjustment screw No open fire! stop engine! First aid Start engine Recycling Combination switch, Choke ON/STOP Safety position 15 3.

SAFETY PRECAUTIONS 3-1. Intended use Power chain saws This power chain saw may be used only for sawing wood out of doors. It is intended for the following uses depending on its class: - The safety jacket (4) is provided with special signalcoloured shoulder straps and is comfortable and easy to care for. -

The protective brace and bib overall (5) is made of a nylon fabric with 22 layers and protects against cuts. - Professional and mid-class: Use on small, medium and large trees: felling, limb removal, cutting to length, thinning.

- Hobbyklasse: Occasional use on small trees, fruit-tree care, felling, limb removal, cutting to length. Unauthorised users: Persons who are not familiar with the Instruction Manual, children, young people, and persons under the influence of drugs, alcohol or medication must not use this saw. - Protective gloves (6) made of thick leather are part of the prescribed equipment and must always be worn during operation of the chain saw. Safety shoes equipped with a protective layer provide protection against cuts and ensure a secure footing. - To ensure correct operation the user has to read this instruction manual (Fig.

□2) to make himself familiar with the characteristics of the chain saw. Users insufficiently informed will endanger themselves as well as others due to improper handling. - It is recommended to lend the chain saw only to people who are experienced in working with chain saws. Always hand over the instruction manual. - First users should ask the dealer for basic instructions to become familiarized with the characteristics of engine powered sawing or even attend a recognized course of instruction.

3-4. Fuels / Refuelling - Stop the engine before refuelling the chain saw. - Do not smoke or work near open fires (Fig. 6). - Let the engine cool down before refuelling. - Fuels can contain substances similar to solvents. Eyes and skin should not come in contact with mineral oil products. Always wear protective gloves when refuelling. Inhalation of fuel vapours can be hazardous to your health. - Do not spill fuel or chain oil.

When you have spilt fuel or oil immediately clean the chain saw. Fuel should not come in contact with clothes. If your clothes have come in contact with fuel, change them at once. - Ensure that no fuel or chain oil oozes into the soil (environmental protection). use an appropriate base.

- Children and young persons aged under 18 years must not be allowed to operate the chain saw. use an appropriate base. - Use chain saws always with the utmost care and attention. - Operate the chain saw only if you are in good physical condition. If you are tired, your attention will be reduced.

Be especially careful at the end of a working day. perform all work calmly and carefully. The user has to accept liability for others. - Never use the chain saw after having consumed alcohol, drugs or medication (Fig. - Refuelling is not allowed in closed rooms. fuel vapors will accumulate near the floor (explosion hazard). - Ensure to firmly tighten the screw plugs of the fuel and oil tanks. - Change the place before starting the engine (at least 3 m from the place of refuelling) (Fig. 7). - Fuel cannot be stored for an unlimited period of time.

Buy only as much as will be consumed in the near future. □4 & 5) - Use only approved and marked containers for the transport and storage of fuel and chain oil. ensure children have no access to fuel or chain oil. - In order to avoid head, eye, hand or foot injuries as well as to protect your hearing the following protective equipment must be used during operation of the chain saw: 3-5. Putting into operation - Do not work on your own. Another person must be nearby in case of emergencies (within shouting distance). It should be tight-fitting but not be a hindrance. Do not wear jewellery or clothing which could become entangled with bushes or shrubs. If you have long hair, always wear a hairnet! - It is necessary to wear a protective helmet whenever working with the chain saw. The protective helmet (1) is to be checked in regular intervals for damage and is to be replaced after 5 years at the latest.

use only approved protective helmets. - Ensure that there are no children or other people within the working area. Pay attention to any animals in the working area, as well (Fig. 8). - Before starting work the chain saw must be checked for perfect function and operating safety according to the prescriptions.

Check especially the function of the chain brake, the correct mounting of the guide bar, the correct sharpening and tightening of the chain, the firm mounting of the sprocket guard, the easy motion of the throttle lever and the function of the throttle lever lock, the cleanliness and dryness of the handles, and the function of the ON/OFF switch. - The face shield (2) of the protective helmet (or the goggles) protects against sawdust and wood chips. During operation of the chain saw always wear a goggle or a face shield to prevent eye injuries. - Wear adequate noise protection equipment (ear muffs 16 - Put the chain saw only into operation if it is completely assembled. Never use the chain saw when it is not - Before starting the chain saw ensure that you have a safe footing.

Working behavior/Method of working - When starting the chain saw it must be well supported and securely held. The guide bar and chain must not be in contact with any object. - Put the chain saw into operation only as described in this instruction manual (Fig. 9). Other starting methods are not allowed.



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- Only use the chain saw during good light and visibility periods. Be aware of slippery or wet areas, and of ice and snow (risk of slipping). The risk of slipping is extremely high when working on recently peeled wood (bark). - Never work on unstable surfaces. Make sure that there are no obstacles in the working area, risk of stumbling.

Always ensure that you have a safe footing. - Never saw above your shoulder height (Fig. 12). - Never saw while standing on a ladder (Fig. 12). - When working with the chain saw always hold it with both hands. Take the back handle with the right hand and the tubular handle with the left hand. Hold the handles tightly with your thumbs facing your fingers. 12). - Continuously ensure that you have a safe footing.

- Hold the chain saw such that you will not breathe in the exhaust gas. Do not work in closed rooms (danger of poisoning). - Never climb up into trees to perform sawing with the chain saw. □ Do not work leaning too far over. - Guide the chain saw in such a way that no part of your body is within the elongated swivelling range of the saw (Fig.

13). - Use the chain saw for sawing wood only. - Switch off the chain saw immediately if you observe any changes in its operating behavior. - Avoid touching the ground with the chain saw while it is still running. - When the sawing device is hit by stones, nails or other hard objects, switch off the engine immediately and check the sawing device.

- When stopping work or leaving the working place switch off the chain saw (Fig. □10) and put it down such that nobody is endangered. □ Stopping work □ Maintenance □ Transport □ Refuelling □ Putting out of function □ Sharpening the chain CAUTION: Do not put the overheated power chain saw in dry grass or on any inflammable objects. The muffler is very hot (danger of fire). - The engine must be switched off before checking the chain tension, tightening the chain, replacing it or clearing malfunctions (Fig. 10). - Never use the chain saw for lifting up or removing pieces of wood or other objects. - Remove foreign objects such as sand, stones and nails found within the working area. Foreign objects may damage the sawing device and can cause dangerous kickback. - When sawing pre-cut timber use a safe support (sawing jack, Fig.

14). Do not steady the workpiece with your foot, and do not allow anyone else to hold or steady it. □ Secure round pieces against rotation. - For cutting down trees or performing crosscuts the spike bar (Fig. □14, Z) must be applied to the wood to be cut. - CAUTION: Oil dropping from the chain or guide bar after having stopped the saw chain will pollute the soil. always use an appropriate base. - Before performing a crosscut firmly apply the spike bar to the timber, only then can the timber be cut with the chain running. For this the chain saw is lifted at the back handle and guided with the tubular handle. The spike bar serves as a center of rotation.

Continue by slightly pressing down the tubular handle and simultaneously pulling back the chain saw. Apply the spike bar a little bit deeper and once again lift the back handle. - When the timber must be pierced for cutting or longitudinal cuts are to be performed it is urgently recommended to have this carried out by specially trained persons only (high risk of kickback). 3-6. Kickback - When working with the chain saw dangerous kickbacks may occur.

- This causes the saw to be thrown back toward the user with great force and out of control. risk of injury! In order to prevent kickback, follow these rules: - The saw must be running whenever you remove the chain saw from the wood. - When performing several cuts the throttle lever must be released in between. , piercing timber or wood with the tip of the saw! - Never apply the end of the bar when starting to make a cut. - Always observe the end of the guide bar.

Be careful when continuing an already started cut. - When starting to cut the chain must be running. - Ensure that the chain is always sharpened correctly. Pay special attention to the height of the depth limiter. - Be careful when cutting splintery wood. Cut pieces of wood may be pulled along (risk of injuries). -

When cutting with the upper edge of the guide bar, the chain saw may be pushed in the direction of the user if the chain gets clamped. - Be careful when cutting splintery wood. The chain saw will hit an iron wedge the chain can be seriously damaged or torn. - When cutting down a tree always stay sideways of the falling tree.

3-10. First aid For the event of a possible accident, please make sure that a first aid kit is always immediately available close by. Immediately replace any items used from the first aid box. 3-10. - When withdrawing after having performed the cut, be alert for falling branches. - Number of injured people - When working on sloping ground the user of the chain saw must stay above or sideways of the trunk to be cut or the tree already cut down. - Be alert for trunks which may roll towards you. Transport and storage - When changing your location durver the sprocket (5). CAUTION: Do not insert the chain between the chain sprocket and the disc. Guide the chain from above about halfway into the groove (7) on the guide bar.

CAUTION: Note that the cutting edges along the top of the chain must point in the direction of the arrow! 35) (Fig. While doing so the chain brake must be released. Check the chain tension frequently - new chains tend to get longer during use! When checking the chain tension the engine must be switched off. 37) Pull the chain (6) around the sprocket nose (8) of the guide bar in the direction of the arrow. Use the combination tool to loosen the fastening nuts (2) about one turn.

Only for models with quick tensioner on sprocket guard (TLC) 7c-2. Tightening the saw chain CAUTION: Before doing any work on the guide bar or chain, always switch off the engine and pull the plug cap off the spark plug (see 8-6 "Replacing the spark plug"). 46) CAUTION: Start the chain saw only after having assembled it completely and inspected. Simultaneously push in hard on the sprocket guard quick tensioner (2) and turn it clockwise to screw the sprocket guard on, but do not yet tighten it. (Fig.

Push the sprocket guard quick tensioner (2) in again and tighten by turning clockwise. 7c-1. Mounting the guide bar and saw chain 1 2 (Fig. 47) Release the sprocket guard chain tensioner until it turns freely, then fold it in between protective ribs (15) as shown in the illustration. (Fig. 41) 3 4 Place the saw on a stable surface and perform the following work steps in order to install the guide bar and saw chain: Release the chain brake by pulling the hand guard (1) in direction of arrow. Fold up the sprocket guard quick tensioner (2) (see also the illustration on tensioning the saw chain). Push the sprocket guard quick tensioner in forcefully against the spring tension and slowly turn counter-clockwise, until you feel it engage. Keep pushing, and turn as far as possible counter-clockwise.



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Release the sprocket guard quick tensioner again and turn clockwise to bring it back to its original position.

Repeat this procedure until the sprocket guard (4) is unscrewed. Remove the sprocket guard (4). While doing so the chain brake must be released. Check the chain tension frequently - new chains tend to get longer during use! When checking the chain tension the engine must be switched off. 43) Put the guide bar (5) on and push it against the sprocket (6). Lift the chain (8) over the sprocket (7). CAUTION: Do not insert the chain between the chain sprocket and the disc. Guide the chain from above about halfway into the groove (9) on the guide bar. CAUTION: Note that the cutting edges along the top of the chain must point in the direction of the arrow! Tension the chain as already described. 45) Pull the chain (8) around the sprocket nose (10) of the guide bar in the direction of the arrow.

Align hole on sprocket guard (4) with the pin (11). Turn the chain tensioner (3, see 7c-2 "Tightening the saw chain") to bring the chain tensioner pin (12) into alignment with the hole in the guide bar. Push the sprocket guard (4) onto the pin (11). If kickback occurs due to contact of the guide-bar tip with wood (see SAFETY PRECAUTIONS 3-6 "Kickback" and Fig. 11), the chain brake will stop the chain through inertia if the kickback is sufficiently strong.

The chain will stop within a fraction of a second. The chain brake is installed to block the saw chain before starting it and to stop it immediately in case of an emergency. IMPORTANT: NEVER run the saw with the chain brake activated (except for testing, see 7-13 "Checking the chain brake")! Doing so can very quickly cause extensive engine damage! ALWAYS release the chain brake before starting the work! 2 (Fig. 50) Engaging the chain brake (braking) If the kickback is strong enough the sudden acceleration of the guide bar combined with the inertia of the hand guard (1) will automatically actuate the chain brake. 2 (Fig.

Releasing the chain brake Pull the hand guard (1) towards you (arrow 2) until you feel it catch. The brake is now released. Be especially careful when handling gasoline. do not smoke. @@@@It runs on a mixture of gasoline and two-stroke engine oil. The engine is designed for unleaded regular gasoline with a min. octane value of 91 ROZ. @@This will not affect the engine. Model EA3201SG and EA3203SG accept Brazilian gasoline (E25). @@@@Caution: Do not use ready-mixed fuel from petrol stations.

@@@@@The Storage of Fuel Fuels have a limited storage life. @@@@Store fuel only in proper containers, in dry, cool, secure locations! @@ e. Mix 50 parts gasoline with 1 part oil. @@ e. Mix 25 parts gasoline with 1 part oil. Mineral oil products degrease your skin. e. Various skin diseases may result. in addition, allergic reactions are known to occur. Eyes can be irritated by contact with oil.

If oil comes into your eyes, immediately wash them with clear water. If your eyes are still irritated, see a doctor immediately! 23 7-7.

@@@@@ waste oil contains high amounts of carcinogenic substances. @@@@Your salesman will inform you about the use of chain oil. @@@@Mineral oil products degrease your skin.

waste oil contains high amounts of carcinogenic substances. Various skin diseases may result. in addition, allergic reactions are known to occur. Eyes can be irritated by contact with oil. If oil comes into your eyes, immediately wash them with clear water.

If your eyes are still irritated, see a doctor immediately! @@@@Your salesman will inform you about the use of chain oil. Be careful and cautious when handling fuels. The engine must be switched off! @@Screw on the tank cap by hand all the way. Clean the tank cap and the area around the tank after refuelling. (Fig. 51) Lubricating the chain Unscrew the tank cap (use the universal wrench if necessary, see illustration) and fill tank with fuel mixture or saw chain oil up to the bottom edge of the filling neck. be careful not to spill fuel or chain oil! Chain oil Fuel/oil mixture During operation there must always be sufficient chain oil in the chain-oil tank to provide good chain lubrication. At medium oil feed rate, the oil tank holds enough for one fuel tank's worth of operation. During this procedure check whether there is enough the chain oil in the tank and refill if necessary. Do this only with the engine turned off! Screw on the tank cap by hand all the way.

24 7-9. Checking the chain lubrication Never work with the chain saw without sufficient chain lubrication. Otherwise the service life of the chain and guide bar will be reduced. Before starting work check the oil level in the tank and the oil feed. Check the oil feed rate as described below: Start the chain saw (see 7-11 "Starting the engine"). If the lubrication is sufficient, you will see a light oil trace because oil will be flung off the sawing device. Pay attention to the direction the wind is blowing and avoid unnecessary exposure to the oil spray! 24 7-9. This does not constitute a defect! 52) Hold the running chain saw approx. 15 cm above a trunk or the ground (use an appropriate base). 7-10.

Adjusting the chain lubrication The engine must be switched off! (Fig. 53) You can adjust the oil pump feed rate with the adjusting screw (1). The adjusting screw is on the bottom side of the housing. The oil pump comes factory-set to a minimum feed rate. You can set the chain oil feed rate to minimum and maximum feed rate.

(Fig. Pick one of the two settings depending on the length of the guide bar. While working make sure there is enough chain oil in the tank. 54) To ensure troublefree operation of the oil pump the oil guide groove at the crank case (2) and the oil inlet bore in the guide bar (3) must be cleaned regularly. (Fig. This does not constitute a defect! Starting the engine Do not start the chain saw until after it is completely assembled and checked! move the combination switch (1) up (choke position). This also actuates the half-throttle lock. pull the starter handle (2) smoothly and evenly. CAUTION: Do not pull the starter cable more than about 50 cm/20" out, and let it back in slowly by hand. repeat the starting procedure twice. Move the combination switch (1) to the central "ON" position. pull the starter handle smoothly and evenly again. As soon as the engine is running, grasp the rear handle (the safety lock button (3) is actuated by the palm of the hand) and press the throttle trigger (4). CAUTION: The engine must be put in idle immediately after starting. If this is not done, the clutch can be damaged.

Now disengage the chain brake. (Fig. 55) 2 1 Move at least 3 meters / 10 feet away from the place where the chain saw was fuelled. 5 Make sure you have a secure footing, and place the saw on the ground in such a way that the guide bar and chain are not near anything. 4 Actuate the chain brake (block it). 3 Hold the front handle firmly with one hand and press the saw against the ground.



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Hold the down rear handguard with your right foot as shown. Note: The Featherlight-Start System lets you start the saw without effort. This is only to engage the half-throttle lock. If the engine doesn't start after 2 or 3 pulls, repeat the entire starting procedure as described for cold starting. (Fig. 25 7-12. Stopping the engine Depress the combination switch (1). Do NOT use the chain saw in this condition! The chain should now stop immediately. Bring the engine back to idle and release the chain brake. Do NOT use the chain saw in this condition! The reduced adjustment range (about 180 degrees) prevents excessively rich carburetor settings. On some models, the adjusting screw (H) is locked. This ensures compliance with exhaust regulations, as well as good engine functioning and economical fuel consumption. SERVICE Do not undertake any adjustments to adjusting screws (H) and (L) without a tachometer! Incorrect adjustment can lead to engine damage! adjusting the carburetor (Fig. This can damage the engine! Only adjusting screw (S) can be manipulated by the user. Without the throttle being pressed), it is imperative to correct the idle speed! Do not adjust the idle speed until after complete assembly and testing of the saw! Idle speed adjustment must only be undertaken when the engine is warm, with a clean air filter and properly installed guide bar and chain. Use a screwdriver (4 mm blade) for idle adjustments. Adjusting the idle speed Turn adjusting screw (S) counter-clockwise (unscrew): Idle speed decreases. Turn adjusting screw (S) clockwise (screw in): Idle speed increases. Important: If the saw chain still moves during idle even after you have adjusted the idle speed, do NOT use the saw. take it to a MAKITA service center! Note: Carburetor adjustment aids in proper functioning, economical consumption, and safe operation. 62) CAUTION: Before doing any work on the guide bar or chain, always switch off the engine and pull the plug cap off the spark plug (see 8-6 "Replacing the spark plug"). always wear protective gloves! The file should cut only when pushed forwards (arrow). Lift the file when leading it backwards.

First sharpen the shortest cutter. The length of this cutter is then the standard for all other cutters of the chain. New saw teeth must be filed to the exact same shape as the used teeth, including on their running surfaces. File depending on chain type (90° to the guide bar). (Fig. 59) The chain needs sharpening when: The sawdust produced when sawing damp wood looks like wood flour. The chain penetrates the wood only under great pressure. the cutting edge is visibly damaged. The saw is pulled to the left or right when sawing. This is caused by uneven sharpening of the chain.

Important: Sharpen frequently, but without removing too much metal! generally, 2 or 3 strokes of the file will be enough. Have the chain resharpened at a service center when you have already sharpened it yourself several times. It is marked for the correct sharpening angle of: $\alpha = 25^\circ$ $\alpha = 30^\circ$ $\alpha = 35^\circ$ (keep the marks parallel with the chain when filing, see illustration) and limits the cut depth to the correct 4/5 of the file diameter. See 11 "Extract from the spare parts list". (Fig.

64) Proper sharpening: CAUTION: Use only chains and guide bars designed for this saw (see 11 "Extract from the spare parts list")! After having sharpened the chain, the height of the depth limiter must be checked by means of a chain gauge. See 11 "Extract from the spare parts list". Correct even the smallest excess height with a special flat file (1). See 11 "Extract from the spare parts list". Round off the front of the depth limiter (2).

Cleaning the inside of the sprocket guard All cutters must be of the same length (dimension a). Cutters with different lengths result in rough running of the chain and can cause cracks in the chain. the minimum cutter length: 3 mm. Do not resharpen the chain when the minimum cutter length has been reached; at this point, the chain must be replaced (see 11 "Extract from the spare parts list" and 8-4 "Replacing the saw chain"). The depth of the cut is determined by the difference in height between the depth limiter (round nose) and the cutting edge. The best results are obtained with a depth-limiter depth of 0. CAUTION: Before doing any work on the guide bar or chain, always switch off the engine and pull the plug cap off the spark plug (see 8-6 "Replacing the spark plug"). always wear protective gloves! CAUTION: Start the chain saw only after having assembled it completely and inspected. 61) Remove the sprocket guard (1) (see 7 "PUTTING INTO OPERATION" for the correct model) and clean out the interior with a brush. remove the chain (2) and guide bar (3).

NOTE: Make sure there are no residues or foreign matter remaining in the oil guide groove (4) or on the chain tensioner (5). remove the chain (2) and guide bar (3). NOTE: The chain brake is a very important safety device and like any other component subject to normal wear and tear. Regular inspection and maintenance are important for your own safety and must be done by a MAKITA service center. The sharpening angle (α) must be identical for all cutters! Use a special saw chain round file for sharpening. Standard round files are unsuitable. See 11 "Extract from the spare parts list". Type 092 (91VG), 492 (91PX): Saw chain round file, dia. Files and how to work with them SERVICE 27 8-3. Cleaning the guide bar CAUTION: Protective gloves must be worn.

Pieces of cloth or large dirt particles can destroy the engine! Insert the air filter (6) in the illustrated direction. CAUTION: Do not insert the air filter upside-down, even after cleaning it. Otherwise dirt particles on the outside surface of the air filter come into the carburetor and can cause an engine trouble. Put on the air filter cover. Note: The air filter cover tab (5) will engage automatically if the air filter cover is properly positioned.

Push down the combination switch (4) and press the throttle (7) all the way down one time in order to deactivate the throttle lock. Put on the hood (3). When doing so make sure that the lower pins (8) on both sides of the hood engage properly (when correctly assembled, the pins should not be visible). Keep the two oiling holes (6) and the entire guide bar clean and free of foreign matter! 8-4. Replacing the saw chain CAUTION: Use only chains and guide bars designed for this saw (see 11 "Extract from the spare-parts list")! (Fig.

67) Check the sprocket before mounting a new chain. Worn out sprockets (8) may damage the new chain and must therefore be replaced. Remove the sprocket guard (see 7 "PUTTING INTO OPERATION"). CAUTION: The circlip will pop out of the groove. When removing it, hold your thumb against it to prevent it from popping off. remove thrust washer (11). If the sprocket (8) is worn out, the complete clutch drum (12) will need to be replaced (for the part number, see 11 "Extract from the spare parts list").



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Install a complete new clutch drum (12), cup washer (11) and new circlip (9) (for the part numbers, see 11 "Extract from the spare parts list"). remove thrust washer (11). NOTE: Don't use a new chain on a worn chain sprocket.

By the time 2 chains have worn, the sprocket has become worn out, so it should be replaced at least at every second chain replacement. To distribute the chain oil evenly, run a new chain at half-throttle for a few minutes before use. New chains stretch, so check the chain tension frequently (see 7-3 "Checking the chain tension"). 8-6. Replacing the spark plug CAUTION: Do not touch the spark plug or plug cap if the engine is running (high voltage). Switch off the engine before starting any maintenance work. The spark plug must be replaced in case of damage to the insulator, electrode erosion (burn) or if the electrodes are very dirty or oily. (Fig. 69) Remove the filter cover (see 8-11 "Cleaning the air filter"). Pull the plug cap (9) off the spark plug.

You can remove the plug cap by hand. Cleaning the air filter CAUTION: To prevent eye injury, always wear eye protection when cleaning the filter with compressed air! Do not use fuel to clean the air filter. Pull out the hood cap (1). Loosen the screw (2) counter-clockwise and remove the hood (3). Push up the combination switch (4) (Choke position) to prevent dirt particles from falling into the carburetor.

Pull the air filter cover tab (5) slightly in the direction of the arrow, and remove the air filter cover. remove the air filter (6). IMPORTANT: Cover the intake opening with a clean cloth to prevent dirt particles from getting into the carburetor. If the filter is very dirty, clean it in lukewarm water with dishwashing detergent. Let the air filter dry completely.

If the filter is very dirty, clean it frequently (several times a day), because only a clean air filter provides full engine power. 68) Press the loosened spark plug (10) with the ignition cable firmly connected against the cylinder using insulated pliers (not near the spark plug opening). Put combination switch (11) in the "ON" position. pull the starter cable hard. If the function is correct, an ignition spark must be visible near the electrodes. 71) Unscrew 3 screws (12) and remove the upper half of the muffler (13). 28 Note: For saw models with catalytic converters (EA3200S, EA3201S, EA3201SG), remove the converter along with the upper muffler half. The screws on the bottom muffler half (14) are now accessible, and it is possible to check them for tightness. If they are loose, tighten by hand (Caution: do not over-tighten). spring engages.

Install the spring (6) and driver (8) and screw on tight with screw (7). Replacing the starter cable/ Replacing the return spring pack/Replacing the starter spring NOTE: If the spring (6) in the Featherlight-Starting system is broken, more effort will be required to start the engine and you will notice some resistance when pulling the starter cable. If you notice this, check the spring (6) and replace if necessary. Remove the air guide (3) from the fan housing. Do not unscrew screw (7) if the return spring is under tension. If the starter cable is to be replaced although it is not broken, it will be necessary to first de-tension the cable drum return spring (13). To do this, use the grip to pull the cable all the way out of the fan housing. Hold the cable drum with one hand, and with the other push the cable into the space (14). Carefully let the drum turn until the return spring is no longer under tension. Unscrew screw (7) and remove the driver (8) and spring (6).

Carefully remove the cable drum. 5 mm, length 900 mm as shown in the illustration (don't forget the washer (10)) and knot both ends as shown. Pull knot (11) into the cable drum (5). Pull knot (12) into the starter grip (9). Put the drum on its spindle and turn it slightly until the return spring engages. Place the spring (6) in the driver (8) and place them together in the cable drum (5) while turning slightly counter-clockwise. insert screw (7) and tighten. Guide the cable into the slot (14) on the cable drum and turn the drum with the cable clockwise three times. insert screw (7) and tighten. Carefully release the cable drum.

The spring will wind the cable around the drum. repeat the procedure once. The starter grip should now stand straight up on the fan housing. NOTE: With the cable pulled all the way out, it must still be possible to turn the pulley another 1/4 turn against the return spring. CAUTION: Danger of injury! Secure the cable grip when pulled out! It will whip back if the cable pulley is released by accident. 72) Insert the air guide (3) in the fan housing so that the three recesses (4) engage. tighten screws (1). Position the fan housing against the housing, press against it lightly and pull the starter grip until the starter engages. CAUTION: To prevent eye injury, always wear eye protection when cleaning the filter with compressed air! The entire area (15) can now be brushed clean or cleaned with compressed air. 74) A bottle brush can be used to clean the cylinder fins.

75) The felt filter (16) of the suction head can become clogged. It is recommended to replace the suction head once every three months in order to ensure unimpeded fuel flow to the carburetor. To remove the suction head for replacement, pull it out through the tank filler neck using a piece of wire bent at one end to form a hook. Replacing the return spring pack Disassemble the fan housing and cable drum (see above). The return spring can pop out! Always wear eye protection and protective gloves! injury hazard! Now lift the fan housing carefully and in small steps. This will allow the return spring pack (13), which should now have fallen out, to relax in a controlled manner if the return spring has popped out of the plastic pack. Carefully insert a new return spring cassette and press down until it engages. @@@@The user of the chain saw must not perform maintenance work which is not described in the instruction manual. All such work must be carried out by a MAKITA service center. Clean to maintain good cooling air flow.

Clean to maintain good cooling air flow. Clean to maintain good cooling air flow. Check and replace if necessary Check tightness of mounting, Check screws Check Check their condition and that they are firmly secured. Replace Clean Check at an authorized service center Clean exterior, check for damage. In case of damage, have repaired by a qualified service center immediately Demount, clean and oil slightly Clean the guide groove of the guide bar Empty and clean Run empty 8-3 8-13 8-5 8-3 7-10, 8-2 7-14 6 8-11 8-11 8-12 8-6, 8-7 6, 8-8 6 30 9.

@@@@All repairs covered by the guarantee must be performed by a MAKITA service center. repair attempts by third parties or unauthorized persons will void all warranty claims. The MAKITA service centers have all the necessary equipment and skilled and experienced personnel, who can work out cost-effective solutions and advise you in all matters.



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To find your local distributor, please visit www.makita-outdoor.

Com Spare parts Reliable long-term operation, as well as the safety of your chain saw, depend among other things on the quality of the spare parts used. Use only original MAKITA parts. Only original spare parts and accessories guarantee the highest quality in material, dimensions, function and safety. Original spare parts and accessories can be obtained from your local dealer. He will also have the spare part lists to determine the required spare part numbers, and will be constantly informed about the latest improvements and spare part innovations. Please bear in mind that if parts other than original MAKITA spare parts are used, this will automatically invalidate the MAKITA product guarantee. MAKITA guarantees the highest quality and will therefore reimburse all costs for repair by replacement of damaged parts resulting from material or production faults occurring within the guarantee period after purchase. Please note that in some countries particular guarantee conditions may exist. If you have any questions, please contact your salesman, who is responsible for the guarantee of the product. Please note that we cannot accept any responsibility for damage caused by: Guarantee • Non-performance of the required maintenance and cleaning.

• Obvious overloading due to permanent exceeding of the upper performance limits. □ Use of guide bars and chains which have not been approved. • Use of force, improper use, misuse or accidents. □ Use of guide bar and chain lengths which have not been approved. □ Damage from overheating due to dirt on the fan housing. □ Work on the chain saw by unskilled persons or inappropriate repairs. □ Use of unsuitable spare parts or parts which are not original MAKITA parts, insofar as they have caused the damage. Trouble shooting Malfunction Chain does not run Engine does not start or only with difficulty System Chain brake Ignition system Observation Engine runs Ignition spark No ignition spark Cause Chain brake actuated. Cylinder base packing ring defective, radial shaft packings defective, cylinder or piston rings defective Spark plug does not seal. Spring in starter broken, broken parts inside the engine. wrong carburetor adjustment. Wrong idling adjustment, suction head or carburetor dirty. Tank venting defective, fuel line interrupted, cable defective, Combination switch defective Air filter dirty, wrong carburetor adjustment, muffler clogged, exhaust channel in cylinder clogged, spark arrester screen clogged. Fuel supply Fuel tank is filled Compression system Inside Outside Mechanical malfunction Warm start difficulties Engine starts, but dies immediately Carburetor Fuel supply Starter does not engage Fuel tank is filled Ignition spark Fuel tank is filled Insufficient power Several systems may be involved simultaneously Oil tank/pump Engine is idling No chain lubrication No oil on the chain 32 11. Extract from the spare parts list (Fig. 76) EA3200S, EA3201S Use only original MAKITA parts. For repairs and replacement of other parts, see your MAKITA service center. .



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