alztools AT-CCS20V Cordless Circular Saw User Manual

Contents

alzaTools

alztools AT-CCS20V Cordless Circular Saw

SAFETY INSTRUCTIONS

EXPLANATION OF SYMBOLS ON THE PRODUCT PACKAGING/TYPE LABEL

- Read the operating instructions carefully before use!
- Wear protective gloves
- Wear mouth and nose protection.
- Wear noise protection.
- Wear protective glasses
- Observe the safety instructions concerning recoil and safety precautions.
- Protect from rain and moisture.
- Ensure proper recycling of the product at the end of its service life and all packaging materials.
- Do not throw batteries into a fire!
- Do not throw batteries into water!
- Always remove the battery during work, transport, storage, maintenance or repair.
- Protect from heat and fire.
- Do not dispose of batteries with normal household waste.
- Do not expose batteries to excessive temperatures above 50 °C.
- plosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks that can ignite dust or fumes.

WARNING:
Class 2 laser product. Do not look into the la-ser beam.

GENERAL SAFETY INSTRUCTIONS FOR POW-ER TOOLS

WARNING! All safety instructions, user man-uals, images and regulations supplied with these tools must be read. Failure to follow all of the following instructions may result in elec-tric shock, fire, and/or serious personal injury. All instructions and the user manual must be kept for future reference.

Safety of working environment

1. The workplace must be kept clean and well lit. Untidy and dark spaces are often the cause of accidents.
2. Power tools must not be used in potentially ex- plosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks that can ignite dust or fumes.
3. Children and other persons must be kept away when using power tools. If the operator is dis-turbed, he/she may lose control of the opera-tion.

Electrical safety

1. The plug on the power tool's flexible lead must match the power outlet. The plug must never be modified in any way. No socket adapters may be used with tools that have a protective earth connection. Plugs and respective sockets that are rendered unusable will reduce the risk of electric shock.
2. The operator must not touch grounded ob-jects, such as pipes, central heating units, cookers and refrigerators. The risk of electric shock is greater if your body is connected to the ground.
3. Power tools must not be exposed to rain, mois-ture or wetness. If water enters the power tool, the risk of electric shock increases.
4. The flexible supply must not be used for oth- er purposes. The power tool must not be car-ried or pulled by the cord, nor must the plug be unplugged from the socket. The inlet must be protected from heat, grease, sharp edges or moving parts. Damaged or tangled leads increase the risk of electric shock.
5. If the power tool is used outdoors, an extension cord suitable for outdoor use must be used. Us-ing an extension cord for outdoor use reduces the risk of electric shock.
6. If the power tool is used in a humid environ-ment, a residual current device (RCD) must be used. Using an RCD reduces the risk of electric shock.

Safety of persons

1. When using a power tool, the operator must be careful, pay attention to what he/she is doing, and concentrate and think clearly. Power tools must not be used if the operator is tired or un-der the influence of drugs, alcohol or medica-tion. Momentary inattention while using a pow-er tool can result in serious personal injury.
2. Use personal protective equipment. Always use eye protection. Protective equipment such as a respirator, non-slip safety shoes, hard hat and hearing protection, used in accordance with the working conditions, reduces the risk of personal injury.

3. Unintentional starting of the machine must be avoided. Make sure that the switch is in the off position before plugging in and/or connecting the battery pack, lifting or carrying the tool. Carrying a tool with your finger on the switch or plugging in a tool fork with the switch on can cause injury.
4. All adjusting tools or wrenches must be re-moved before turning on the tool. An adjusting tool or wrench that remains attached to the ro-tating part of the power tool may result in per-sonal injury.
5. The operator must only work where he/she can safely reach. The operator must always main-tain a stable posture and balance. This will al-low better control of the power tool in unfore-seen situations.
6. Dress appropriately. Do not wear loose cloth-ing or jewellery. The operator must make sure that his/her hair and clothing are a sufficient distance away from moving parts. Loose cloth-ing, jewellery and long hair can be caught in
7. Where equipment is provided for connecting dust extraction and collection facilities, care must be taken to ensure that it is connected and used correctly. The use of such equipment can reduce hazards caused by dust.
8. The operator must not allow the routine that results from the frequent use of the tools, to cause them to become complacent and ignore the principles of tool safety. Careless activity can cause serious injuries in a split second.

Use and the maintenance of power tools

1. Power tools must not be overloaded. It is es-sential to use the correct power tool for the work being carried out. The correct power tool will do the work it was designed to do better and safer.
2. Power tools that cannot be turned on and off with the switch must not be used. Any power tool that cannot be operated with the switch is dangerous and must be repaired.
3. Before making any adjustments, changing ac-cessories, or storing power tools, unplug the power tool and/or remove the battery pack from the power tool if it is removable. These precautions reduce the risk of accidentally starting the power tool.
4. Unused power tools must be stored out of the reach of children. Persons unfamiliar with the power tool or these instructions must not be allowed to use the power tool. Power tools are dangerous in the hands of inexperienced users.
5. Power tools and accessories must be main-tained. The adjustment of moving parts and their mobility must be checked and attention focused on cracks, broken parts and any other circumstances that may jeopardize the func-tion of the power tool. If the tool is damaged, it must be repaired before use. Many accidents are caused by poorly maintained power tools.
6. Cutting tools must be kept sharp and clean. Properly maintained and sharpened cutting tools are less likely to catch on material or jam and are easier to control.
7. Power tools, accessories and tool bits etc. must be used in accordance with these instructions and in the manner intended for the particular power tool, taking into account the working conditions and the work to be carried out. Us- ing power tools for activities other than those for which they are designed can lead to dan-gerous situations.
8. Handles and grip surfaces must be kept dry, clean and free of grease. Slippery handles and gripping surfaces mean the tool cannot be held and controlled in unexpected situations.

Service

1. Power tool repairs must be carried out by qual- ified personnel using identical spare parts. This will ensure the

same level of safety of the pow-er tool as before the repair.

USE AND MAINTENANCE OF CORDLESS TOOLS

1. The tool must only be charged with the charger specified by the manufacturer. A charger that may be suitable for one type of battery pack may present a fire hazard when used with an-other battery pack.
2. The tool must only be used with a battery pack that is specifically designed for the tool. The use of any other battery pack may present a risk of injury or fire.
3. When the battery set is not used, the battery pack must be protected from contact with oth-er metal objects, such as paper clips, coins, keys, nails, screws or other small metal objects that can cause one battery contact to come into contact with another. Short-circuiting the bat-tery terminals may cause burns or fire.

SAFETY INSTRUCTIONS FOR ALL SAWS When cutting

1. **DANGER**: The operator must ensure that his/her hands are at a safe distance from the cut-ting point and the saw blade. The other hand must be used to grip the auxiliary handle or the motor housing. If the saw is held with both hands, the hands cannot be cut with the blade.
2. Do not touch the workpiece. The protective cover cannot protect the operator from touch-ing the blade under the workpiece.
3. The depth of cut must be adapted to the thick-ness of the workpiece. The visible part of the saw blade teeth under the workpiece should be less than the height of one tooth.
4. The workpiece must never be held in the hand or over the knee when cutting. The workpiece must be mounted on a solid base. It is impor-tant that the workpiece is properly supported and that the risk of touching any part of the body, the blade jamming, or loss of control is reduced to the minimum.
5. When performing an operation where the cut-ting tool may touch a hidden guide or its own power supply, the power tool must be held by insulated gripping surfaces. Contact with a “live” wire will cause the uninsulated metal parts of the power tool to become “live” and may cause an electric shock to the user.
6. When cutting longitudinally, it is always neces-sary to use a longitudinal ruler or a guide with a straight edge. This improves cutting accuracy and reduces the risk of the blade getting stuck.
7. Discs with clamping holes of the correct size and shape (diamond or circular) must always be used. Saw blades that do not exactly match the saw’s clamping components will not be centred and will cause a loss of control.
8. Damaged or incorrect washers or screws must never be used to clamp the blade. The washers and screws for clamping the blade have been specially designed for your saw for optimum performance and work safety.

Causes of recoil and related warnings
Recoil is a sudden reaction of a pinched, blocked or misaligned saw blade resulting in an uncon-trolled upward movement of the saw upwards and away from the workpiece towards the oper-ator;

- If the saw disc is clamped or completely blocked by the clamping cut, it stops, and the reaction force of the motor causes the saw to be thrown back quickly towards the operator;
- If the saw disc is rotated or misaligned in the cut, the teeth on the rear edge of the disk may hit the wood surface from above, the disc will jump out of the cut and the saw will be thrown back towards the operator.
- Recoil is the result of improper use of the saw and/or improper work procedures or conditions and can be

prevented by fully complying with the above precautions.

- The saw must always be held firmly with both hands and the arms in a position that it can withstand the force of the recoil. The body of the operator must be on one side of the blade, but not in the plane of the blade. Recoil can cause the saw to be thrown back, but the force caused by the recoil can be handled by the user taking the appropriate safety precautions.
- If the saw blade becomes stuck or if it is nec-essary to interrupt the cut for any reason, the switch control must be released, and the saw held in place in the material until the saw blade comes to a complete stop. The operator must never attempt to lift the saw from the cut or pull it back while the saw blade is in motion; in such cases, recoil may occur. It is necessary to look for the causes of the saw blade jamming and ways to eliminate these causes.
- If the saw disc is lowered in the workpiece, the saw blade must be centred in the cut so that the saw teeth are not immersed in the material. If the saw blade jams, the saw may be pushed upwards from the workpiece or recoil may oc-cur.
- Large sawn timber must be supported to min-imize the risk of recoil and the saw blade jam-ming. Large sawn timber tends to sag under its own weight. There must be pads on both sides under the board near the cut and near the edg-es.
- Blunt or damaged saw blades must not be used. Unsharpened or incorrectly adjusted saw blades create a narrow cutting groove and cause excessive friction, which limits the rota-tion of the blade and leads to recoil.
- Before cutting, the levers for adjusting the depth of the cut and the bevel angle of the saw blade must be sufficiently and reliably tight-ened If the disc position changes during cut-ting, the blade may jam and recoil may occur.
- Extra care must be taken when cutting into ex-isting walls or other places where you cannot see. A disc that penetrates the other side of the material can cut into the object, which can cause recoil.

SAFETY INSTRUCTIONS FOR SAWS WITH AN EXTERNAL PIVOTING COVER AND SAWS WITH A TRAILING COVER

Lower protection function

1. Before each use, make sure that the lower guard is fully closed. Do not operate the saw unless the lower protection cover moves freely and engages immediately. The lower protec-tion cover must never be secured in the open position, e.g. by clamping or tying. If the saw is accidentally dropped on the ground, the low-er guard may bend. The lower protective cov-er must be opened using the tilting lever and make sure that it moves freely and does not touch the saw blade or any other part of the saw at any opening angle or set depth of cut.
2. The function of the lower guard spring must be checked. If the protective cover and return spring does not work properly, these parts must be repaired before use. The lower guard may react slowly due to a damaged part, sticky deposits or dirt.
3. The lower guard may only be opened manually in special cutting cases, such as “immersion” or “composite” cuts. The protective cover must be opened using the tilting lever and released as soon as the saw blade penetrates the mate-rial. In all other cutting cases, the lower guard should operate automatically.
4. Before placing the saw on a workbench or the floor, always make sure that the lower guard covers the saw blade. An unprotected run-ning-in blade causes the saw to move back-wards and cut everything in its path. It is impor-tant to note how long it takes to stop the blade after releasing the switch.

SAFETY INSTRUCTIONS FOR SUBMERSIBLE SAWS

Protective cover function

1. Before each use, make sure that the protective cover closes properly. The saw must not be operated unless the guard moves freely and immediately cover the saw blade. The protective cover must never be secured, e.g. with clamps or tying, in the position where the saw blade is exposed. If the saw is accidentally dropped on the ground, the guard may bend. Make sure that the guard moves freely and does not touch the blade or any other part of the saw at any opening angle or set depth of cut.
2. The function and condition of the protective cover return spring must be checked. If the function of the protection cover and its use is not correct, these parts must be repaired before use. The protective cover may react slowly due to a damaged part, sticky deposits, or dirt.
3. If “immersion” cutting is performed, make sure that the saw base plate does not move during the “immersion”. Moving the blade to the side results in reduced movement with a high probability of recoil.
4. Always check that the protective cover covers the disc before placing the saw on a work-bench or the floor. An unprotected running-in blade causes the saw to move backward and cut everything in its path. It is important to note how long it takes to stop the blade after releasing the switch.

ADDITIONAL SAFETY INSTRUCTIONS FOR ALL SPACER WEDGE SAWS

Spacer wedge function

1. A suitable saw blade that corresponds to the spacer wedge must be used. For the spacer wedge to work, the saw blade body must be tangent to the spacer wedge and the blade cutting width must be wider than the spacer wedge thickness.
2. The spacer wedge must be adjusted as described in these operating instructions. Im-proper distance or position adjustment and insufficient centering can cause the spacer wedge to lose its function in terms of recoil prevention.
3. A spacer wedge must always be used except when cutting by immersing the blade in the material. After such cutting, the spacer wedge must be refitted. When cutting by immersing the disc in the material, the spacer wedge strikes the workpiece and can cause recoil.
4. For the spacer wedge to work it must be positioned in the cutting groove. The spacer wedge does not prevent recoil in the case of shortcuts.
5. The saw must not be operated if the spacer wedge is bent. Even light contact with the protective cover can slow down closing the protective cover.

TECHNICAL DATA

Saw disk	
Diameter	165 mm
Central hole	20 mm
Thickness	1.6 mm

Maximum depth of cut	
90°	51 mm
45°	37 mm

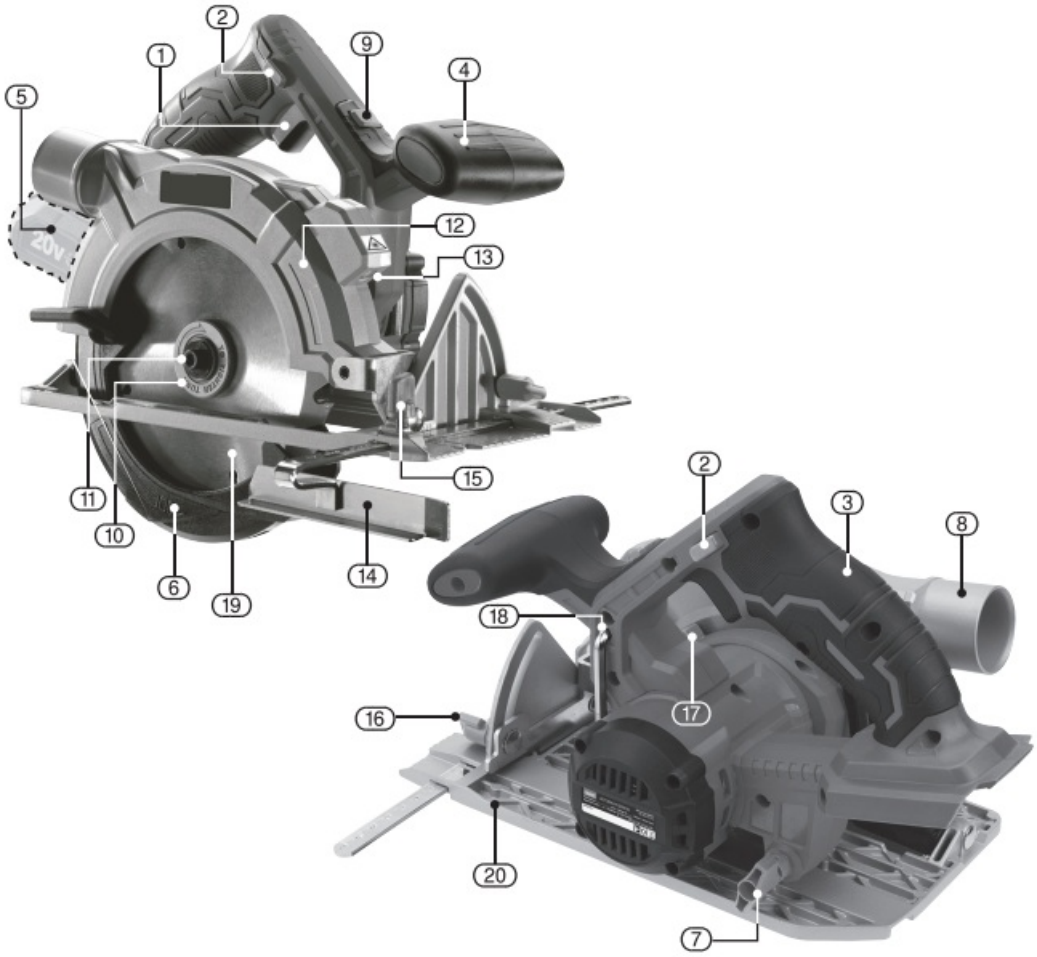
Revolutions per minute (no load)	4200

Laser	
Type	Class 2
Output power	1 mW
Wavelength	650 nm

Sound pressure level *	79.2 dB(A), K=3 dB(A)
Sound power level **	90.2 dB(A), K=3 dB(A)
Level of vibrations	2.02 m/s2, K=1.5 m/s2
Weight (only machine)	2.56 kg

Continuous sound pressure level with filter A for hand tools measured according to **EN ISO 15744: 1999** and stated according to **EN ISO 4871**.
Sound power level with filter A for hand tools measured according to **EN ISO 15744**: 1999 and reported according to **EN ISO 4871.**

DESCRIPTION



1. Switch
2. Switch fuse
3. Rear handle
4. Auxiliary handle
5. 20 V Li-ion rechargeable battery (sold separately)
6. Lower swivel disc guard
7. Cutting depth adjustment lever
8. Dust extraction output
9. Laser switch
10. Disc clamping flange
11. Hexagon socket disc clamping screw
12. Wheel direction arrow
13. Laser lens
14. Side guide
15. Guide adjustment screw
16. Cutting angle adjustment screw 17 Rotation lock button
17. Key holder
18. Saw disk
19. Baseplate

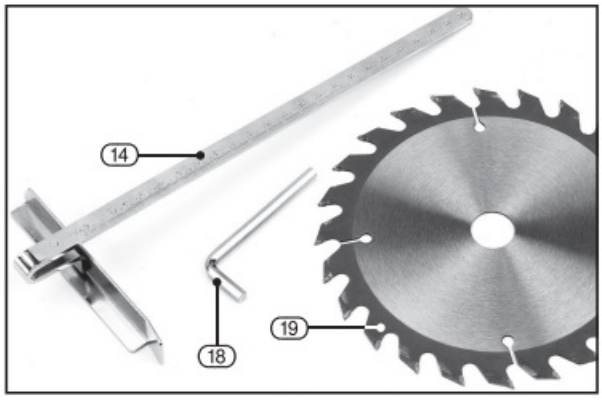
UNPACKING AND INSPECTION

UNPACKING
Carefully unpack the product, remove the packaging material and check the condition for any dam-age during transport. Disassemble the contents of the package and check the completeness of the accessories according to the next paragraph. If anything is missing, contact your dealer and do not use the product.
Keep the packaging material for at least the warranty period, it must be used in the case of shipment.

Warning!

- Packaging material can be dangerous to children. Keep it out of the reach of children.
- Follow applicable local recycling regulations when disposing of the packaging.

PACKAGE CONTENTS
In addition to the product, the package also contains three accessories:



- **14 Side guide**
- **18 Allen key**
- **19 Saw disc**

PREPARING THE SAW

This product is delivered “bare” without the battery and charger. Compatible accessories are availa-ble from the manufacturer.

Important: Only the designated AlzaTools batteries and chargers must be used with this product. The use of other batteries and chargers is a violation of the warranty.
Once charging begins, the battery charger can generally be left unattended. Internal circuits ensure optimal charging and monitor for any excess. When charging is complete, only the maintenance current flows to maintain the full capacity of the battery.

Warning!

- Check the condition of the charger and battery before each charge. If you find any signs of damage, contact the manufacturer.
- Before charging, the battery must first be disconnected from the tool. How to disconnect the battery:
- Press the battery latch and gently pull the battery out of the tool.
- Connect the charger supply to a standard 230 V AC/10 A mains socket.
- The green LED indicates that the charger is powered.
- Insert the battery into the charger so that the battery and charger contacts properly connect.
- After a few seconds, the charging LED lights up and the green LED goes out.

- Make sure the battery is inserted correctly in the charger. Improper battery insertion will damage the charger or battery.
- When the battery is fully charged, the green LED lights up.
- If the lights go out during charging, disconnect the charger from the mains, remove the battery and replace it with another one.
- Unplug the charger from the wall outlet.
- **ATTENTION**: Do not pull on the cable.
- Always hold the power supply by the plug.
- Remove the battery from the charger.
- Hold the charger with one hand and remove the battery with the other.
- **ATTENTION**: The charger is hot after prolonged use. We recommend a 15-minute break before charging another battery.
- If the battery is overheated after use or, for example, due to sunlight, charging will not start. In this case, allow the battery to cool.
- If the red charger light flashes quickly after 0.2 s, check the battery connector for foreign objects. If you do not find a fault, the battery or charger may be defective. Repeat the whole procedure and wait for the charger to return to normal.

BATTERY CHARGE STATUS
You can check the current battery charge by pressing the # (5.2) button on the battery indicator.

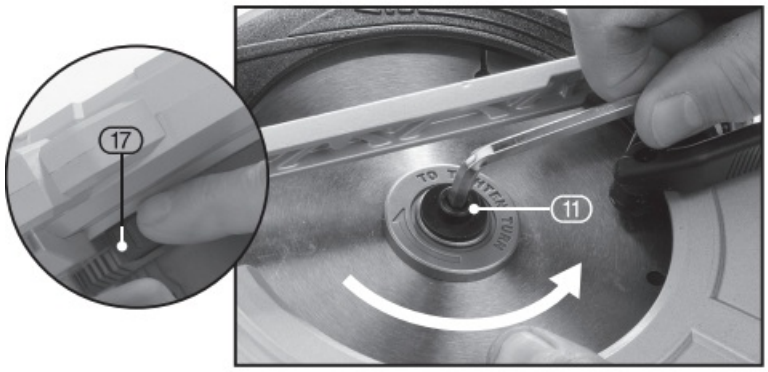
TIPS FOR EFFICIENT BATTERY USE

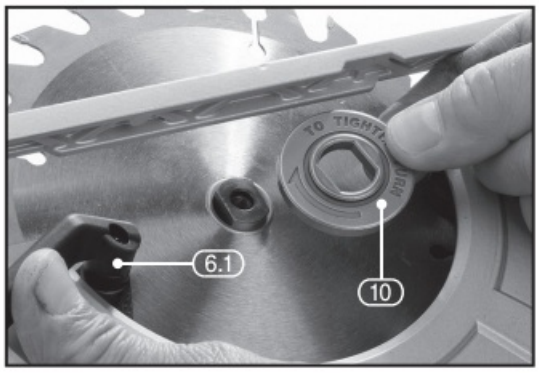
- Charge the batteries before they are completely discharged.
- If the performance of the machine decreases, stop using it and replace or charge the battery. Using the machine with the last remaining battery power may damage the battery.
- Do not charge the batteries at high temperatures. The batteries are hot immediately after use. When such a battery is charged, the chemical structure of the cells degrades, and the battery life is shortened. Therefore, allow the batteries to cool before charging.
- The batteries can only be charged and used in the temperature range of 5 ° C to 30 °C. There is a risk of damage to the cells. Always allow the batteries to reach normal temperature.

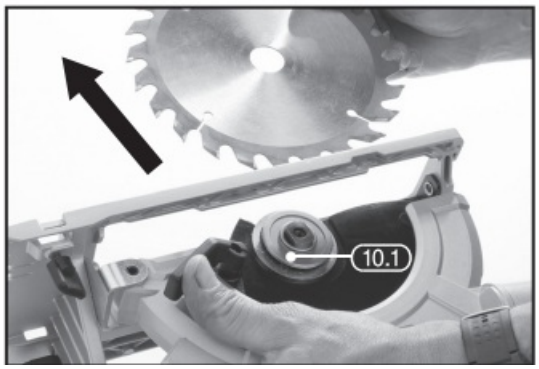
Note: Failure to follow these instructions can damage the batteries and charger or cause an injury.

Warning! Do not use cutting or grinding wheels. Only use the recommended saw blades.

DISC INSTALLATION AND REPLACEMENT







- Remove the battery from the machine.
- Press and hold the rotation lock button # (17). Turn the blade until the button clicks and the flange stops rotating.
- Loosen the clamping screw # (11) by turning the key to the left.
- Remove the clamping screw # (11) and the clamp-ing flange # (10). Only remove the rear flange # (10.1) to clean the machine and always make sure that it is returned to the correct position.
- Slide the pivoting lower disc guard with handle # (6.1) and hold.
- Make sure that the parameters of the saw blade correspond to the machine (e.g. outer diameter, thickness, maximum speed, hole diameter, type (for wood, etc.)). Before inserting the saw, apply a drop of oil to the flanges around the disc hole.
- Insert a new disc.

  Note: Insert the saw blade in the correct direction so the rotation aligns with the arrow on the saw. The teeth point upwards at the front of the saw. Reassemble the clamping flange and carefully tighten screw # (11). This saw is not designed for cutting metal or masonry. It is only to be used for cutting treated wood and similar materials.

BASIC USE

SWITCH
The switch can only be pressed at the same time as the safety catch to prevent the saw from acciden-tally starting. To start the saw, first, hold the lock and then press the switch.

DUST EXTRACTION
Inhaling cutting dust can adversely affect your health. Therefore connect a suitable extractor (vacuum cleaner) to the machine outlet.
Note: A tube diameter adapter may be required for connection.

Warning: All wood dust (including laminate dust, plastics dust, etc.) poses a health risk to the respiratory system, eyesight and skin. For example, MDF boards contain formaldehyde, which is a proven carcinogen. In addition to the above measures, we recommend the use of a suitable face mask according to the scope of work. A respirator of at least FFP2 is required against fine wood dust.

CUTTING DEPTH ADJUSTMENT

- To adjust the depth of the cut, first release the depth of cut adjustment lever.
- Set the required depth; use the depth scale for orientation.
  Note: You can achieve a more precise setting by measuring the distance of the tooth tip from the saw base plate. After adjustment, tighten the depth adjustment lever again.

CUTTING ANGLE ADJUSTMENT
To change the cutting angle between 0° and 45°, loosen the cutting angle adjustment screw.
Note: The scale is for guidance only. For precise adjustment, the angle of the blade relative to the saw base plate must be measured.

After adjusting, retighten the cutting angle adjustment screw.

SIDE GUIDE

- Insert the side guide through the hole in the base and secure it with the guide adjustment screw.
- Set the required guide distance (cutting width); use the scale on the guide for orientation.
- Make a test cut on the rest of the material and adjust the guide more accurately if necessary.
- For more accurate measurement, measure the distance from the guide face to the tooth flank.

LASER FOCUS
Warning: Laser radiation. Do not look into the beam. Class 2 laser.
Laser aiming is started with the button 9 and the laser illuminates until the button is pressed again.

- Mark the cutting plane on the material.
- Set the depth and, if necessary, the cutting angle as required.
- Turn on the laser with button 9 and adjust the saw so that the laser trace lies on the marked cutting plane on the material.
- Start the engine and make a cut at full saw speed (after approximately 2 seconds).
- Switch off the laser when the cut is complete.

CUTTING
ATTENTION: When cutting, always move forward in a straight line without pushing the saw to the sides. Pressing or turning the saw overloads the motor, which results in a faster discharge of the bat-tery and overheating of the

machine. In the worst-case scenario, the saw can recoil and cause injury.

- Always hold the saw firmly by both handles.
- Place the saw base plate on the material without touching the blade teeth.
- Switch on the machine, wait for the engine to spin completely and make a smooth cut to the end; keep the saw straight. For best results, move at the same speed.
- After releasing the switch, wait for the blade to stop before putting the saw down.

MAINTENANCE AND TROUBLESHOOTING

MAINTENANCE

Regular inspections and cleaning of the machine reduce the need for service and keep the machine in good condition.
The motor must be sufficiently cooled during cutting. Keep the air vents clean and regularly dusted.

TROUBLESHOOTING

Note: Remove the battery from the device before adjustment and maintenance.

Problem	Possible cause	Solution
The engine does not start.	– The battery is empty. – The battery is defective.	– Charge or replace the bat- tery. – Replace battery.
The engine is running slow/ with no power.	– The battery is empty. – The battery is defective.	– Charge or replace the bat- tery. – Replace battery.
Poor cutting output.	– Blunt saw. – Poorly mounted disc. – Incorrect disc	– Replace the saw disc. – Remove and reattach the disc according to the in- structions. – Choose the correct disc ac- cor ding to the work – see the informa tion on the wheel.
The saw vibrates.	– The disc is deformed. – Poorly mounted disc.	– Stop the machine and re- place the blade. – Stop the machine and re- move and restart

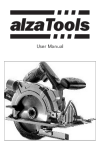
EC DECLARATION OF CONFORMITY

- Identification of the manufacturer / importer’s authorised representative:
- Manufacturer: Alza.cz, a. s.
- Registered office: Jankovcova 1522/53, Holešovice, 170 00 Prague 7
- Company ID: 27082440
- Subject of the declaration:

- Name: Circular saw
- Model/Type: AT-CCS20V
- The above product has been tested in accordance with the standard (s) used to demonstrate compliance with the essential requirements set out in the Directive (s):
- Machine directive 2006/42/EC
- Electromagnetic compatibility (EMC) directive 2014/30/EU
- ROHS directives 2011/65/EU and (EU) 2015/863
- Reference to harmonised standards:
- EN62841-1:2015
- EN62841-2-5:2014
- EN55014-1:2017
- EN55014-2:2015
- EC type-examination was carried out on:
- No. 0123 TÜV SÜD Product Service GmbH, Certification Body, Ridlerstraße 65, 80339 Munich, Ger-many
- Certificate number: M8A 063263 0058
- Technical documentation is stored at:
- Alza.cz, a. s.
- Jankovcova 1522/53, Holešovice, 170 00 Prague 7
- The year of manufacture of the machine and the serial number are indicated on the machine.
- Ing. Jan Melena
- Business Development Manager
- Sales and Purchasing; Private Labels

- Prague, 22. 9. 2021

Documents / Resources

	alztools AT-CCS20V Cordless Circular Saw [pdf] User Manual AT-CCS20V Cordless Circular Saw, AT-CCS20V, Cordless Circular Saw, Circular Saw, Saw

References

- Alza | Alzashop.com
- Alza | Alzashop.com