



# alzaTools AT-CBCS20V Cordless Brushless Circular Saw User Manual

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## SAFETY INSTRUCTIONS

### EXPLANATION OF SYMBOLS ON THE PRODUCT PACKAGING/TYPE LABEL



Read the operating instructions carefully before use!



Wear mouth and nose protection.



Wear protective glasses



Observe the safety instructions concerning recoil and the 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!



Wear protective gloves



Wear noise protection.



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.

Li-Ion



Do not expose batteries to excessive temperatures above 50 °C.

## WARNING:

**Class 2 laser product. Do not look into the laser beam.**

## GENERAL SAFETY INSTRUCTIONS FOR POWER TOOLS

**WARNING! All safety instructions, user manuals, images and regulations supplied with these tools must be read. Failure to follow all of the following instructions may result in electric 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
2. Power tools must not be used in potentially explosive 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. If the operator is disturbed, he/she may lose control of the operation.

### 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
2. The operator must not touch grounded objects, such as pipes, central heating units, cookers and refrigerators. The risk of electric shock is greater if your body is connected to the
3. Power tools must not be exposed to rain, moisture or If water enters the power tool, the risk of electric shock increases.

4. The flexible supply must not be used for other

## **SAFETY INSTRUCTIONS**

purposes. The power tool must not be carried 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.

1. If the power tool is used outdoors, an extension cord suitable for outdoor use must be used. Using an extension cord for outdoor use reduces the risk of electric shock.
2. If the power tool is used in a humid environment, 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 under the influence of drugs, alcohol or Momentary inattention while using a power tool can result in serious personal injury.
2. Use personal protective 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 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 removed before turning on the tool. An adjusting tool or wrench that remains attached to the rotating part of the power tool may result in personal
5. The operator must only work where he/she can safely reach. The operator must always maintain a stable posture and balance. This will allow better control of the power tool in unforeseen
6. Dress appropriately. Do not wear loose clothing or The operator must make sure that his/her hair and clothing are a sufficient distance away from moving parts. Loose clothing, jewellery and long hair can be caught in moving parts.
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
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

## **Use and the maintenance of power tools**

1. Power tools must not be It is essential 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

3. Before making any adjustments, changing accessories, 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
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
5. Power tools and accessories must be main- 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 function 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
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. Using power tools for activities other than those for which they are designed can lead to dangerous 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

## **Service**

1. Power tool repairs must be carried out by qualified personnel using identical spare parts. This will ensure the same level of safety of the power 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 another battery
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
3. When the battery set is not used, the battery pack must be protected from contact with other 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 Short-circuiting the battery 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 cutting point and the saw blade. The other hand must be used to grip the auxiliary handle or the motor. 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 touching the blade under the
3. The depth of cut must be adapted to the thickness of the workpiece. The visible part of the saw blade teeth

under the workpiece should be less than the height of one

4. The workpiece must never be held in the hand or over the knee when cutting. The workpiece must be mounted on a solid 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 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 accura- cy and reduces the risk of the blade getting
7. Discs with clamping holes of the correct size and shape (diamond or circular) must always be 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 wash- ers and screws for clamping the blade have been specially designed for your saw for opti- mum performance and work

## **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 disc may hit the wood surface from above, the disc will jump out of the cut and the saw will be thrown back towards the  
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

## **SAFETY INSTRUCTIONS**

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 precau- tions.

- 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 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 ma- If the saw blade jams, the saw may be pushed upwards from the workpiece or recoil may occur.
- Large sawn timber must be supported to min- imize the risk of recoil and the saw blade jam- 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 edges.
- Blunt or damaged saw blades must not be Unsharpened or incorrectly adjusted saw blades create a narrow

cutting groove and cause excessive friction, which limits the rotation 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 tightened. If the disc position changes during cutting, the blade may jam and recoil may occur.
- Extra care must be taken when cutting into existing 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 protection 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 lower guard may bend. The lower protective cover 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
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 material. In all other cutting cases, the lower guard should operate
4. Before placing the saw on a workbench or the floor, always make sure that the lower guard covers the saw blade. An unprotected running-in blade causes the saw to move backwards and cut everything in its path. It is important 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 covers the saw blade. The protective cover must never be secured, e.g. with clamps or tying, in the position where the saw blade is. 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
4. Always check that the protective cover covers the disc before placing the saw on a workbench or the floor. An unprotected running-in blade causes the saw to move backwards and cut everything in its path. It is important to note how long it takes to stop the blade after releasing the

## 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
2. The spacer wedge must be adjusted as described in these operating instructions. Proper distance or position adjustment and insufficient centring 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 short cuts.
5. The saw must not be operated if the spacer wedge is damaged. Even light contact with the protective cover can slow down closing the protective cover.

### TECHNICAL DATA

Cordless brushless circular saw	
Parameter	Value
Battery voltage	20 V DC
Rated speed (no load)	0–4,200 rpm
Bevel cutting range	0–45°
Outer diameter of the cutting edge	1,650 mm
Inner diameter of the cutting edge	20 mm



<b>Cutting thickness at right angle</b>	51 mm
<b>Angle of cut thickness</b>	45° 37 mm
<b>Laser class</b>	2
<b>Laser output</b>	<1 mW
<b>Wavelength</b>	$\lambda = 650 \text{ nm}$
<b>Protection class</b>	III
<b>Weight</b>	2.99 kg

<b>NOISE AND VIBRATION LEVEL PARAMETERS</b>	
<b>Sound pressure</b>	$L_{pA} = 75.86 \text{ dB (A)}$ $K = 3 \text{ dB (A)}$
<b>Sound power</b>	$L_{WA} = 86.3 \text{ dB (A)}$ $K = 3 \text{ dB (A)}$
<b>Vibration acceleration (additional handle)</b>	$a_h = 3.92 \text{ m/s}^2$ $K = 1.5 \text{ m/s}^2$
<b>Vibration acceleration (main handle)</b>	$a_h = 2.18 \text{ m/s}^2$ $K = 1.5 \text{ m/s}^2$

## Vibration and noise information

The noise produced by the equipment is defined by: the sound pressure level  $L_{pA}$  produced and the sound power level  $L_{wA}$  (where  $K$  is the measurement uncertainty). The vibrations produced by the device are defined with the value of the vibration acceleration  $a_h$  (where  $K$  is the measurement uncertainty).

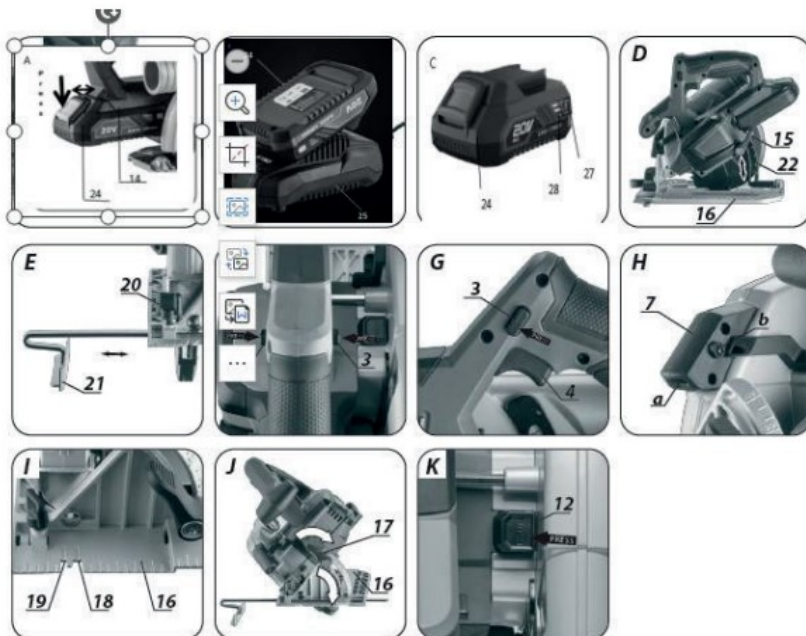
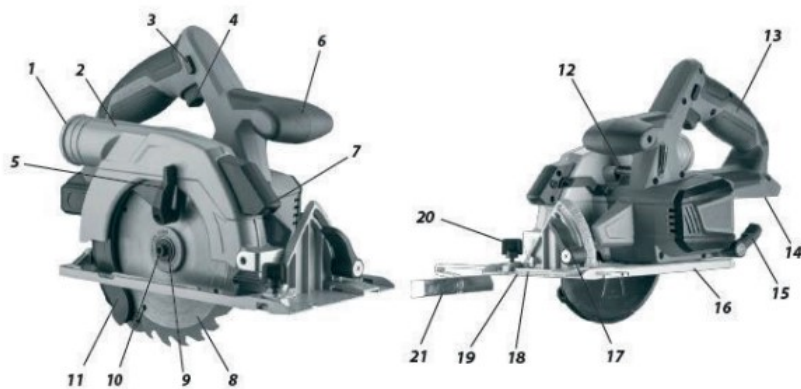
Sound pressure  $L_{pA}$  Sound power  $L_{wA}$  and vibration acceleration  $a_h$  given in this manual were measured in accordance with IEC 62841-1. The determined vibration level  $a_h$  can be used to compare the tools and to initially evaluate the vibration exposure.

The stated vibration level is representative of the main equipment applications.

If the device is used for other purposes or with different work tools, the vibration level may change. Insufficient or infrequent maintenance can increase vibration levels. The above factors can lead to higher vibration exposure throughout working hours.

To accurately define exposure to vibration, count the periods when the device is off and when it is on but not used for work.

## DESCRIPTION



## DESCRIPTION

1. Dust extraction output
2. Top cover
3. Toggle lock button

4. **Switch**
  5. **Lower protection lever**
  6. **Front handle**
  7. **Laser**
  8. **Cutting blade**
  9. **Washer under the flange**
  10. **Fixing screw for the cutting disc**
  11. **Lower cover**
  11. **Spindle arresting button**
  13. **Hot handle**
  12. **Slot for installing the battery**
  15. **Depth of cut locking lever**
  16. **Base**
  13. **Basic position locking lever**
  18. **Cutting line indicator for 45°**
  14. **Cutting line indicator for 0°**
  20. **Edge guide locking screw**
  21. **Edge guide**
  15. **Cutting depth guide**
  23. **Battery lock button**
  24. **Battery**
- **Charger**
  - **LED diode**
  - **Button for battery status indication**
  - 28. **Battery status indicator (LED)**

Links to pictures A–K can be found later in the manual.

## **OPERATION\**

### **REMOVING AND INSERTING THE BATTERY**

- Press the battery lock button (23) and slide out the battery (24) (Fig. A).
- Insert the charged battery (24) into the battery installation slot (14) in the main handle socket (13); you should hear a click as soon as the battery lock button (23)

### **BATTERY CHARGE LEVEL INDICATION**

The battery is fitted with a battery status indicator (3 LEDs) (28). To check the battery level, press the battery level indicator button (27) (Fig. C). If all LEDs are lit, the battery charge is high. When two LEDs are lit, the battery is partially discharged. If only one LED is lit, the battery is flat and must be recharged.

### **ADJUSTING THE CUTTING DEPTH**

The depth of the cut at right angles can be adjusted from 0 to 51 mm.

- Release the depth of the cut lock lever (15).
- Set the required depth of cut (use the scale).
- Secure the depth of cut locking lever (15) (Fig. D).

### **INSTALLING THE EDGE GUIDE**

The edge guide can be installed on the left or right side of the device base.

- Loosen the edge guide locking screw (20).
- Insert the edge guide into the holes in the base (16), set the required distance using the scale and fix it by tightening the edge guide locking screws (20) (Fig. E).

The edge guide should face downwards.

The edge guide (21) can also be used to cut bevels at angles from 0° to 45°.

Never put your hands or fingers behind the saw when in operation. If recoil occurs, the saw can fall on your hands causing serious injury.

## MOVEMENT OF THE LOWER COVERS

As soon as the blade is embedded in the material, the lower protective cover (11) of the cutting blade

(8) is automatically pushed away. To move it manually, press the bottom cover lever (5).

## DUST EXTRACTION

The circular saw is equipped with a dust extraction outlet (1), which extracts the sawdust generated during cutting.

## OPERATION/SETTING TURNING ON/OFF

When starting, hold the saw with both hands as engine torque can cause the power tool to rotate out of control. Remember that the rotating parts of the saw rotate for some time even after the machine has been switched off. The device is fitted with a switch that protects against accidental start-up. The safety switch is located on both sides of the tool body.

### Switching on

- Press and hold one of the switch lock buttons (3) (Fig. F).
- Press the on/off button (4) (Fig. G).

## OPERATION

- After starting the device, you can release the switch lock button (3). **Switching off**
- Release the pressure on the on/off button (4) and the operation will

## LASER OPERATION

Never look directly at the source of the laser beam or its reflection from a surface and never point the laser beam at anyone.

Each time the switch lock button (3) is pressed, the laser (7) switches on. The laser beam allows better control of the cutting line.

The saw is equipped with a laser generator (7), which is used for precise cutting.

- Press the switch lock button (3).
- The laser begins to project a red line that is visible on the

- Make a cut along the

Dust generated during cutting can suppress laser light, so clean the laser generator lens from time to time.

## **LASER ADJUSTMENT**

The laser was set by the manufacturer. It may require adjustment only when the projected beam deviates from the cut line.

- Press the switch lock button (3).
- The projected red line should be parallel to the defined cutting line. If the line is not in a parallel position, turn the laser lens (a) left or right with a screwdriver until the projected red line is parallel to the defined cutting line (Fig. H).
- If the projected red line is still out of the parallel position, turn the screwdriver (b) left or right until the projected red line is in the parallel position (cross adjustment).

## **CUTTING**

The cut line is defined by the cut line indicator (18) for an angle of 45° or (19) for an angle of 0° (Fig. I).

- Always hold the saw firmly with both hands when starting
- Only switch on the circular saw when it is away from the material to be
- Do not press too hard on the The pressure should be moderate and constant.
- After cutting, allow the blade to come to a complete
- If cutting is interrupted before the task is completed, start the saw and let it idle before Wait until the tool has reached its full rotation speed, and then carefully insert the cutting disc into the cut of the material being processed.
- When cutting perpendicular to the grain of the material (wood), the grains tend to rise and tear (slow movement of the saw minimizes this effect).
- Make sure that the lower guard reaches its end
- Before starting to cut, always make sure that the depth of the cut arrest knob and the base bevel adjustment knobs are
- Only use cutting discs with the correct clamping hole and outside diameter for a circular
- The processed material must be firmly
- Place the wider part of the saw base on the part of the material that will not be

If the object is small, fix the processed material with F-clamps. If the base of the circular saw does not move on the material being processed but is raised instead, there is a risk of recoil.

Properly clamped work material and firmly holding the tool ensure full control over the operation of the power tool. This prevents the risk of injury. Do not attempt to hold short/small pieces of material with your hands.

## **SETTING THE BASE OF THE CUTTING SAW BEVEL**

The adjustable saw base allows you to make mitre cuts at angles from 0° to 45°.

- Release the basic position locking lever (17) (Fig. J).
- Use the scale to set the base (16) to the desired angle (from 0° to 45°).
- Secure the base position locking lever (17).

Remember that when cutting a bevel, the risk of recoil is greater (jamming is more likely), so it is especially important that the base of the saw rests on the entire surface area of the material.

Make the cut in a smooth motion.

## **CUTTING INTO THE MATERIAL**

- Set the desired depth of cut that corresponds to the thickness of the material to be

Remove the battery from the device before beginning any installation, adjustment, repair, or maintenance activity.

## **MAINTENANCE AND STORAGE**

- It is recommended to clean the device after each
- Do not use water or any other liquid for
- Clean the tool with a brush or compressed air at low
- Do not use any cleaning agents or solvents as they may damage the plastic
- Regularly clean the vents in the motor housing to prevent the unit from Do not clean the vents by inserting sharp objects such as a screwdriver and other similar objects.
- If you find damage to the cutting disc, replace it
- The cutting disc must always be
- Always store tools in a dry place, out of reach of
- Store equipment with the battery

## **REPLACING THE CUTTING DISC**

- Using the supplied Allen key, unscrew the blade fixing screw (10) by turning it
- To prevent the saw spindle from rotating, secure the spindle with the spindle lock button (12) when unscrewing the screw that fixes the cutting disc (Fig. K).
- Dismantle the outer flange washer (9).
- Using the lower guard lever (5), move the lower guard (11) so that the upper guard (2) is hidden as far inwards as possible (check the condition and function of the spring that pulls the lower protective guard at that time).
- Slide the cutting disc (8) through the hole in the saw base (16).
- Position the new cutting disc so that the teeth and the arrow on the blade align with the direction of the arrow on the lower and upper
- Insert the cutting disc into the base groove and mount it on the spindle so that it is correctly pressed against the inner flange surface and
- Install the outer flange washer (9) and tighten the blade retaining bolt (10) by turning it
- After replacing the blade, always store the hex key in its storage

Observe the correct tooth direction when installing the cutting disc. The arrow on the saw body shows the direction of rotation of the spindle.

Take extra care when holding the blade in your hand. Wear protective gloves to protect your hands from the sharp teeth of the blade.

All defects should be repaired by a service centre authorized by the manufacturer.

## 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-CBCS20V

**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, Germany

Certificate number: M8A 063263 0151

### 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

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