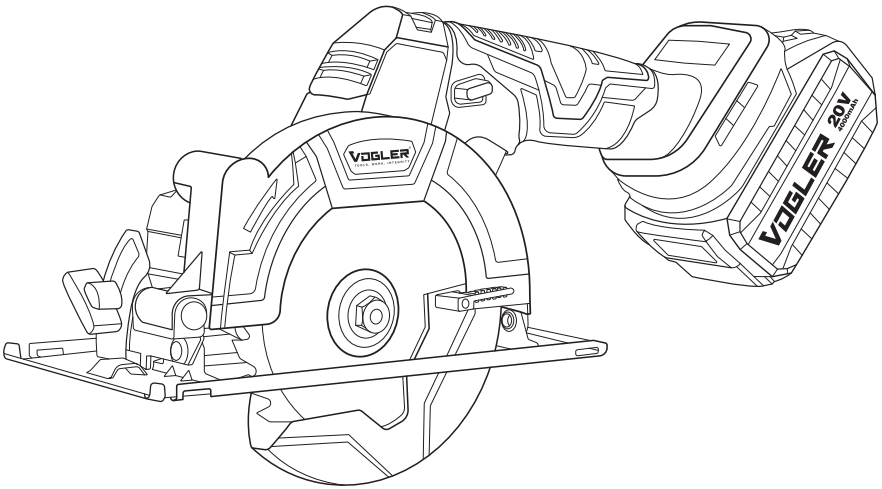
VOGLER®

TOOLS, WORK, INTEGRITY

V10356

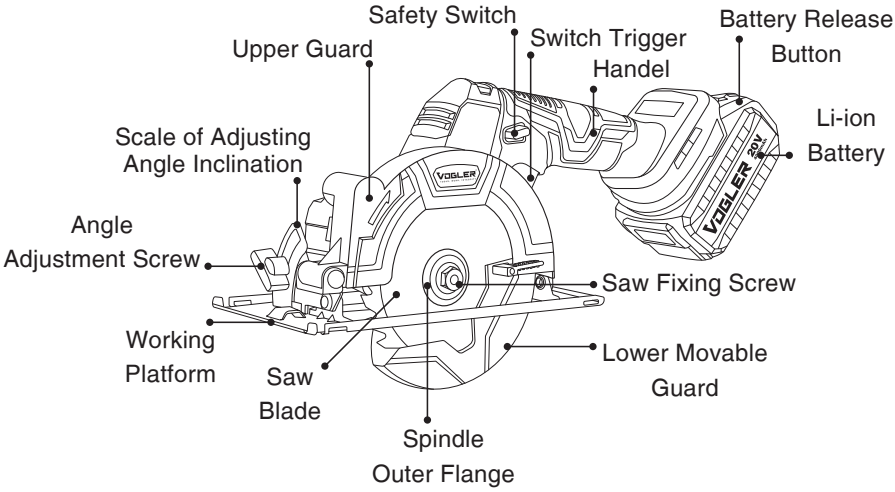


BRUSHLESS CIRCULAR SAW 20V

TECHNICAL SPECIFICATIONS

Model	**V10356**
Battery Voltage	20V
Battery Capacity	4.0Ah
Battery Chemistry	lithium-ion
No-load speed	6000RPM
Max Cutting Depth at 0°	42mm
Max Cutting Depth at 45°	30mm
Disc bore size	φ20mm
Motor Type	Brushless
Saw blade Max diameter	125mm
Switch type	Anti-self-locking switch
Cutting angles	0°-45°
Charging time	60min
Weight	2.67Kg
Accessories	Inner hexagon spanner (1Pc) Guide (1Pc) 4.0Ah battery Pack (1Pc) 4.0A charger (1Pc)

PART LIST



GENERAL SAFETY RULES

FOR ALL BATTERY-OPERATED TOOLS

⚠ WARNING

READ AND UNDERSTAND ALL INSTRUCTIONS.
Failure to follow all instructions listed below may result in electric shock, fire and/or serious personal injury.

WORK AREA

•Keep the workplace clean and well-lit. Working in disorganized and dark places can cause accidents.

•Do not operate cordless tools in explosive atmospheres such as near flammable liquid, gas, or dust as the sparks they generate can ignite dust or gas.

•Keep the cordless tools away from children and bystanders during the operation. Being distracted, you might end up losing control of the

tool.

ELECTRICAL SAFETY

•A battery-operated tool, whether it has built-in batteries or a separate battery pack, must only be recharged with the specified charger. Using a charger meant for a different type of battery can create a fire risk.

•Use the battery-operated tool only with the specifically designated battery pack. Using any other batteries may create a risk of fire.

PERSONAL SAFETY

•Stay alert and focused when working with cordless tools. Do not operate these tools when feeling tired or under the influence of drugs, alcohol, or medications. A moment of distraction or lack of attention can lead to serious injuries to the operator.

•Dress appropriately. Do not wear loose clothes or accessories. Keep your hair and clothes away from the moving parts. Loose clothes, accessories, or long hair may get caught in the moving parts.

•Prevent accidental starting. Ensure the switch is off before connecting the tool to the battery pack, picking it up, or carrying it around. Putting your fingers on the switch while carrying the tool or energizing it when the switch is on can be dangerous.

•Remove all adjustment keys or wrenches before turning the cordless tool on. Wrenches or keys left on rotating parts of the tool can lead to injury.

•Don’t stretch your hands too far. Always pay attention to the foothold and body balance. This way you can control the cordless tools better in case of an accident.

•Using personal protective equipment is a MUST. Always wear safety glasses. Using dust masks, anti-slip safety shoes, safety helmets, hearing protection, and other PPEs based on necessity in different conditions, can reduce the risk of personal injury.

TIPS ON CORDLESS TOOL USE AND MAINTENANCE

•Use clamps or other practical ways to secure and support the

workpiece to a stable platform. Holding the workpiece by hand or against your body doesn't give you enough control over it.

- Choose cordless tools according to the purpose. This will enhance your efficiency and safety.
- If the switch doesn't turn the device on or off, the cordless tool should not be used. Cordless tools that cannot be controlled by switches, are dangerous and must be repaired.
- Before making any adjustments, replacing accessories, or storing the cordless tools, you must remove the battery pack (if detachable). This protective safety measure reduces the risk of accidental starting of the cordless tool.
- Store idle tools out of reach of children and other untrained persons. Tools are dangerous in the hands of untrained users.
- When the battery pack is not in use, keep it away from other metal objects, such as paper clips, coins, keys, nails, screws, or other small metal objects. This prevents the negative and positive terminals from connecting and causing a short circuit which may start a fire or cause an explosion.
- Maintain tools with care. Keep cutting tools sharp and clean. Properly maintained tools with sharp cutting edges are less likely to bind and are easier to control.
- Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tool's operation.

If damaged, have the tool serviced before using. Many accidents are caused by poorly maintained tools.

- Use only accessories that are recommended by the manufacturer for your model. Accessories that may be suitable for one tool may create a risk of injury when used on another tool.

SERVICE

- Tool service must be performed only by Vogler service qualified repair personnel. Service or maintenance performed by unqualified personnel may result in a risk of injury.

•When servicing a tool, use only identical replacement parts.

IMPORTANT CHARGING TIPS

•Do not store in locations where the temperature may exceed 40ºC.
•Charge only at ambient temperatures between 4ºC and 40ºC.
•Charge only using the charger provided with the tool as other chargers might use different amperages and can damage or destroy your battery and /or screwdriver
•Unplug the charger before attempting to clean the tool.
•Do not immerse the charger in water or any other liquid.
•Charging time is around 1 hour.

⚠ CAUTION

Never attempt to open the battery pack for any reason. If the plastic housing of the battery pack breaks or cracks, return it to a service center for recycling.

⚠ WARNING

Do not allow liquid to enter the charger. Electric shock could result. To cool the battery pack after use, avoid placing the charger in a warm environment such as in a metal shed or non-insulated trailer.

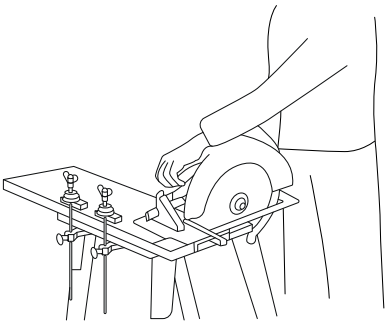
CORDLESS CIRCULAR SAW SAFETY WARNINGS

CUTTING PROCEDURES

⚠ DANGER

•Keep your hands away from the cutting area and the blade. Place one hand on the auxiliary handle or the motor housing. If both hands are holding the saw, they cannot be cut by the blade.
Do not reach underneath the workpiece. The guard cannot protect you from the blade beneath the workpiece.
Adjust the cutting depth to match the thickness of the workpiece. Only a

small portion of the blade teeth should be visible below the workpiece.
• Never hold the piece that's being cut in your hands or across your leg. Secure the workpiece to a stable platform. Proper support minimizes body exposure, blade binding, and loss of control.



A typical illustration of proper hand support and workpiece support.

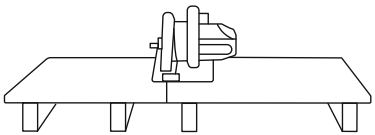
• Hold the power tool by insulated gripping surfaces only when performing operations where the cutting tool may contact hidden wiring. Contact with a 'live' wire will make exposed metal parts of the power tool 'live' and could give the operator an electric shock.
• When ripping, always use a rip fence or straight-edge guide. This improves the accuracy of the cut and reduces the chance of blade binding.
• Always use blades with the correct size and shape (diamond vs. round) of arbor holes. Blades that do not match the mounting hardware of the saw will run eccentrically, causing a loss of control.
• Never use damaged or incorrect blade washers or bolts. The blade washers and bolts were specially designed for your saw, for optimum performance and safety of operation.

KICKBACK CAUSES AND RELATED WARNINGS

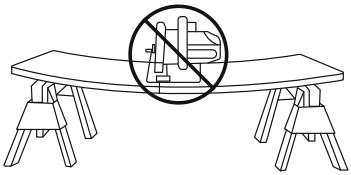
Kickback is the result of saw misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below. It is a sudden reaction to a pinched, bound, or misaligned saw blade, causing the saw to lift uncontrollably and move toward the operator.

- When the blade is pinched or bound tightly by the kerf closing down, the blade stalls and the motor reaction drives the unit rapidly back toward the operator.
- If the blade becomes twisted or misaligned in the cut, the teeth at the back edge of the blade can dig into the top surface of the wood causing the blade to climb out of the kerf and jump back toward the operator.
- Maintain a firm grip with both hands on the saw and position your arms to resist kickback forces. Position your body to either side of the blade, but not in line with the blade. Kickback could cause the saw to jump backward, but kickback forces can be controlled by the operator if proper precautions are taken.
- When the blade is binding, or when interrupting a cut for any reason, release the trigger and hold the saw motionless in the material until the blade comes to a complete stop. Never attempt to remove the saw from the workpiece or pull the saw backward while the blade is in motion or kickback may occur. Investigate and take corrective actions to eliminate the cause of blade binding.
- When restarting a saw in the workpiece, center the saw blade in the kerf and check that saw teeth are not engaged into the material. If the saw blade is binding, it may walk up or kickback from the workpiece as the saw is restarted.
- Support large panels to minimize the risk of blade pinching and kickback. Large panels tend to sag under their own weight.

Place supports under the panel on both sides, near the line of the cut and near the edge of the panel.



To avoid kickback, do support board or panel near the cut



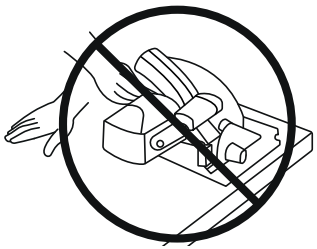
Do not support board or panel away from the cut

•Do not use dull or damaged blades. Unsharpened or improperly set blades produce a narrow kerf causing excessive friction, blade binding, and kickback.

•Blade depth and bevel adjusting locking levers must be tight and secure before cutting. If blade adjustment shifts while cutting, it may cause binding and kickback.

•Use extra caution when sawing into existing walls or other blind areas. The protruding blade may cut objects that can cause kickback.

•ALWAYS hold the tool firmly with both hands. NEVER place your hand or fingers behind the saw. If kickback occurs, the saw could easily jump backward over your hand, leading to serious personal injury.



•Never force the saw. Push the saw forward at a speed so that the blade cuts without slowing. Forcing the saw can cause uneven cuts, loss of accuracy, and possible kickback.

LOWER GUARD FUNCTION

•Check the lower guard for proper closing before each use. Do not operate the saw if the lower guard does not move freely and close instantly. Never clamp or tie the lower guard into the open position. If the saw is accidentally dropped, the lower guard may be bent. Raise the lower guard with the retracting handle and make sure it moves freely and does not touch the blade or any other part, in all angles and depths of cut.

•Check the operation of the lower guard spring. If the guard and the spring are not operating properly, they must be serviced before use. The lower guard may operate sluggishly due to damaged parts, gummy deposits, or a build-up of debris.

•The lower guard should be retracted manually only for special cuts such as “plunge cuts” and “compound cuts”. Raise the lower guard by retracting the handle and as soon as the blade enters the material, the lower guard must be released. For all other sawing, the lower guard should operate automatically.

•Always ensure the lower guard covers the blade before placing the saw down on the bench or floor. An unprotected, coasting blade will cause the saw to walk backward, cutting whatever is in its path. Be aware of the time it takes for the blade to stop after the switch is released.

•To check the lower guard, open it by hand, then release and watch the guard close. Also, make sure the retracting handle does not touch the tool housing. Leaving the blade exposed is VERY DANGEROUS and can lead to serious personal injury.

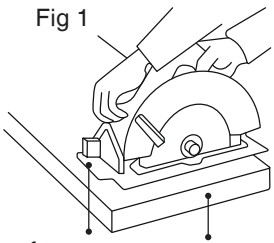
ADDITIONAL SAFETY TIPS

INTENDED USE

•This tool is intended to cut wood products only. Accumulated sawdust on the lower guard and hub from other materials may affect the proper closure of the lower guard which could lead to serious personal injury.

•Use extra caution when cutting damp wood, pressure-treated lumber, or wood containing knots. Maintain a smooth advancement of the tool without reducing blade speed to avoid overheating the blade tips.
•Do not attempt to remove the cut material when the blade is moving. Wait until the blade stops before grasping the cut material, as blades continue to coast after being turned off.
•Avoid cutting nails. Inspect for and remove all nails from lumber before cutting.
•Place the wider portion of the saw base on the part of the workpiece that is solidly supported, not on the section that will fall off after the cut is made. For example, Fig.1 shows the CORRECT way to cut off the end of a board, and Fig.2 the INCORRECT way. If the workpiece is short or small, clamp it down. DO NOT TRY TO HOLD SHORT PIECES BY HAND!

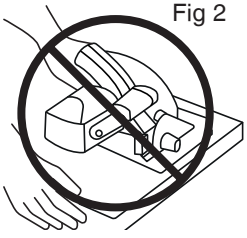
Fig 1



Wide section of working platform

Part of workpiece which fall off after cutting

Fig 2



⚠ WARNING

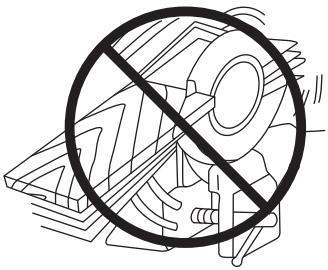
DO NOT let comfort or familiarity with the product (gained from repeated use) replace strict adherence to safety rules for the subject product. MISUSE or failure to follow the safety rules stated in this instruction manual may cause serious personal injury.

SYMBOLS

The following shows the symbols used for the tool.

v	volts
⎓	direct current
n^o	no load speed
---/min r/min	revolutions or reciprocation per minute

•Before setting the tool down after completing a cut, ensure that the lower guard has closed and the blade has come to a complete stop.
•Never attempt to saw with the circular saw held upside down in a vise. This is extremely dangerous and can lead to serious accidents.



•Some materials contain chemicals that can be toxic. Take caution to prevent dust inhalation and skin contact. Follow material supplier safety data.
•Do not stop the blades by lateral pressure on the saw blade.
•Do not use any abrasive wheels.
•Only use the saw blade with the diameter that is marked on the tool or specified in the manual. Using an incorrectly sized blade may affect the proper guarding of the blade or guard operation which could result in serious personal injury.
•Keep the blade sharp and clean. Gum and wood pitch hardened on blades will slow down the saw and increase the potential for kickback. Keep the blade clean by first removing it from tool, then cleaning it with gum and pitch remover, hot water or kerosene. Never use gasoline.
•Wear a dust mask and hearing protection when using the tool.

IMPORTANT SAFETY INSTRUCTIONS

FOR THE BATTERY CARTRIDGE

•Before using the battery cartridge, read all the instructions and cautionary markings on (1) battery charger, (2) battery, and (3) the product using the battery.
•Do not disassemble the battery cartridge.
•If operating time has become excessively shorter, stop operating immediately. It may result in a risk of overheating, possible burns, and even an explosion.
•If electrolyte gets into your eyes, rinse them out with clear water and seek medical attention right away. It may result in the loss of your eyesight.
•Do not short the battery cartridge:
•Do not touch the terminals with any conductive material.
•Avoid storing the battery cartridge in a container with other metal objects such as nails, coins, etc.
•Do not expose the battery cartridge to water or rain.
A battery short can cause a large current flow, overheating, possible burns, and even a breakdown.
•Do not store the tool and battery cartridge in locations where the temperature may reach or exceed 45°C (113°F).
•Do not incinerate the battery cartridge even if it is severely damaged or completely worn out. The battery cartridge can explode in a fire.
•Be careful not to drop or strike the battery.
•Do not use a damaged battery.
•Follow your local regulations relating to the disposal of batteries.

⚠ CAUTION
Only use genuine Vogler batteries.
Use of non-genuine Vogler batteries, or batteries that have been altered may cause the battery to burst resulting in fires, personal injury, and damage.

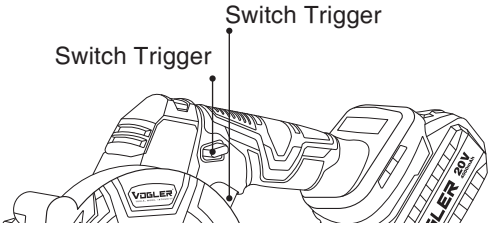
TIPS FOR MAINTAINING MAXIMUM BATTERY LIFE

•Charge the battery cartridge before it's completely discharged. Always stop the tool operation and charge the battery cartridge when you notice less tool power.
•Never recharge a fully charged battery cartridge. Overcharging shortens the battery service life.
•Charge the battery cartridge at room temperature between 5°C and 45°C (41° F - 113°F).
•Let a hot battery cartridge cool down before charging it.
•Charge the battery cartridge if you do not use it for a long period (more than six months).

SWITCH ACTION

⚠ CAUTION

•Before installing the battery cartridge into the tool, always check to see if the switch trigger actuates properly and returns to the "OFF" position when released.
•Do not pull the switch trigger hard without pressing the lock-off lever. This can cause switch breakage.



OVERLOAD PROTECTION

When the tool is operated in a manner that causes it to draw an abnormally high current, the tool automatically stops without any indications. In this situation, turn the tool off and stop the application that caused the tool to become overloaded. Then turn the tool on to

restart.

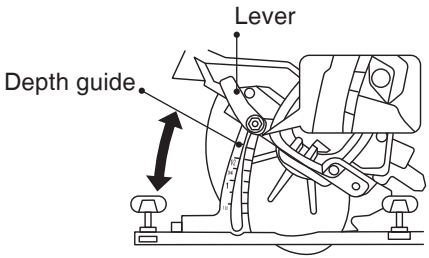
OVERHEAT PROTECTION FOR TOOL

When the tool is overheated, the tool stops automatically. In this situation, let the tool cool before turning the tool on again.

ADJUSTING THE DEPTH OF CUT

⚠ CAUTION

• After adjusting the depth of cut, always tighten the lever securely.



To prevent the switch trigger from being accidentally pulled, a lock-off lever is provided. To start the tool, press the lock-off lever and pull the switch trigger. Release the switch trigger to stop.

⚠ WARNING

• For your safety, this tool is equipped with a lock-off lever that prevents the tool from unintended starting. Do not use the tool if it runs when you pull the switch trigger without pressing the lock-off lever. Never tape down or defeat the purpose and function of the lock-off lever.

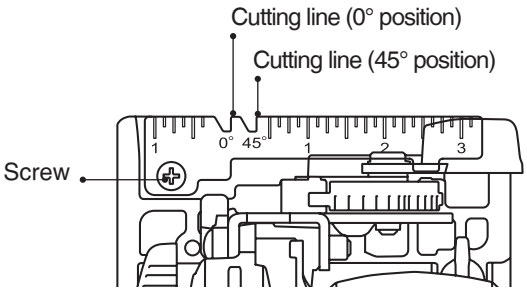
TOOL/BATTERY PROTECTION SYSTEM

The tool is equipped with a tool/battery protection system. This system automatically cuts off the power to the motor to extend tool and battery life.

The tool will automatically stop during operation if the tool or battery is placed under one of the following conditions. In some conditions, the indicator lights up.

Loosen the lever on the side of the rear handle and move the base up or down. At the desired depth of cut, secure the base by tightening the lever. For cleaner and safer cuts, set the cut depth so that no more than one blade tooth projects below the workpiece. Using proper cut depth helps to reduce the potential for dangerous KICKBACKS which can cause personal injury.

SIGHTING



For straight cuts, align the 0° mark on the front of the base with your cutting line. For 45° bevel cuts, align the 45°mark with your cutting line. The position of the top guide is adjustable.

ASSEMBLY

⚠ CAUTION

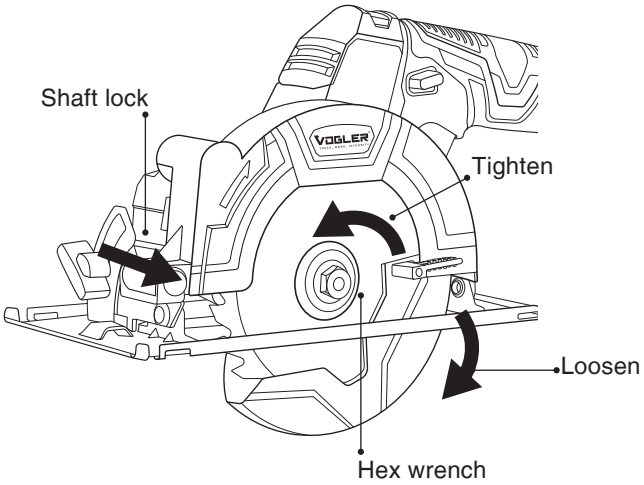
Always be sure that the tool is switched off and the battery cartridge is removed before carrying out any work on the tool.

SAW BLADE INSTALLATION OR REMOVAL

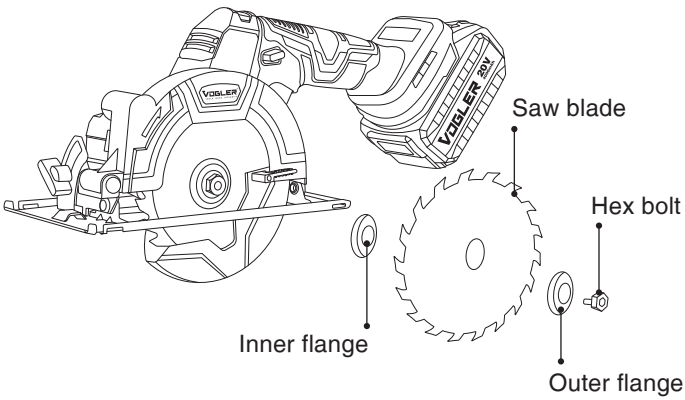
⚠ CAUTION

Be sure the blade is installed with the teeth pointing up at the front of

the tool.
Use only the Vogler company wrench to install or remove the blade.

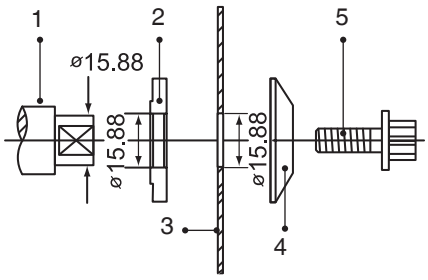


To remove the blade, press the shaft lock so that the blade cannot revolve and use the wrench to loosen the hex bolt clockwise. Then remove the hex bolt, the outer flange, and the blade.



To install the blade, follow the removal procedure in reverse. BE SURE TO TIGHTEN THE HEX BOLT COUNTERCLOCKWISE SECURELY. When changing the blade, make sure to also clean the upper and

lower blade guards of accumulated sawdust as discussed in the Maintenance section. Such efforts do not replace the need to check lower guard operation before each use.



1- Mounting shaft
2- Inner flange
3- Saw blade
4- Outer flange
5- Hex bolt

Mount the inner flange with its recessed side facing outward onto the mounting shaft and then place the saw blade, the outer flange, and the hex bolt.
BE SURE TO TIGHTEN THE HEX BOLT COUNTERCLOCKWISE SECURELY.

OPERATIONS

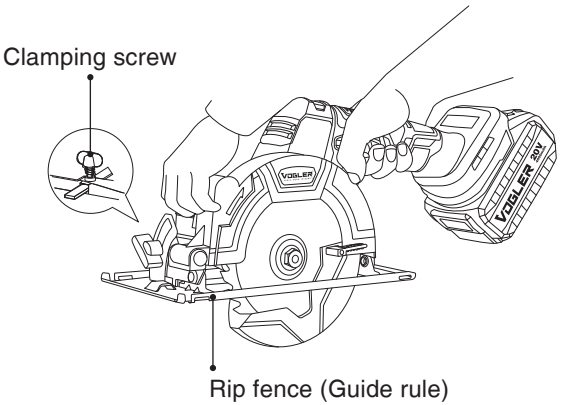
⚠ CAUTION

•Be sure to move the tool forward in a straight line gently. Forcing or twisting the tool will result in overheating the motor and a dangerous kickback, possibly causing severe injury.
•Set the base on the workpiece to be cut without allowing the blade to make any contact. Then turn the tool on and wait until the blade makes contact. Now simply move the tool forward over the workpiece surface,

keeping it flat and advancing smoothly until the sawing is completed.

- To get clean cuts, keep your sawing line straight and your speed of advance uniform. If the cut fails to properly follow your intended cut line, do not attempt to turn or force the tool back to the cut line. Doing so may bind the blade and lead to dangerous kickback and possible serious injury.
- Release the switch, wait for the blade to stop, and then withdraw the tool. Realign the tool on the new cut line, and start the cut again. Try to avoid positioning yourself where you will be exposed to chips and wood dust being ejected from the saw.
- Use eye protection to help avoid injury.

RIP FENCE (GUIDE RULE) (OPTIONAL ACCESSORY)



The handy rip fence allows you to do extra-accurate straight cuts. Simply slide the rip fence up snugly against the side of the workpiece and secure it with the clamping screw on the front of the base. This also enables repeated cuts of uniform width.

MAINTENANCE

⚠ CAUTION

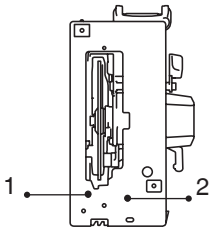
• Always be sure that the tool is switched off and the battery cartridge is removed before carrying out any work on the tool.

• Clean out the upper and lower guards to ensure no accumulated sawdust may interfere with the lower guarding system operation.

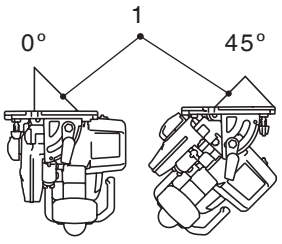
A contaminated guarding system can limit proper operation resulting in serious personal injury. The most effective way to accomplish this cleaning is through compressed air. If the dust is being blown out of the guards, use proper eye and breathing protection.

• Never use gasoline, benzene, thinner, alcohol, or the like. Discoloration, deformation, or cracks may result.

ADJUSTING FOR ACCURACY OF 0° AND 45° CUT (VERTICAL AND 45° CUT)



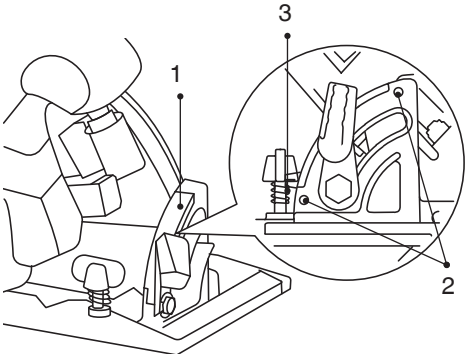
1) Adjusting screw for 45°
2) Adjusting screw for 0°



Dreieckslineal

This adjustment has been made at the factory. But if it is off, adjust the adjusting screws with a screwdriver/hand while inspecting 0° or 45°the blade with the base using a triangular rule or square rule, etc. Use the 45° stopper to adjust the 45° angle.

ADJUSTING THE BEVEL GUIDE



1- Bevel guide
2- Screw
3- Guide

The bevel guide has been factory-adjusted. But if it is off, you can adjust it as the following procedure:
To adjust the bevel guide, loosen the two screws. Align the 0° line on the bevel guide with the guide on the base when the base is set to 0° angle.

OPTIONAL ACCESSORIES

⚠ CAUTION

These accessories or attachments are recommended for use with your tool specified in this manual. The use of any other accessories or attachments might present a risk of injury to persons. Only use accessory or attachment for its stated purpose.

SERVICE AND MAINTENANCE

•Get your power tool serviced regularly by a qualified repair person using only identical replacement parts. This will help maintain the safety and performance of your power tool.
•Follow instructions for lubricating and changing accessories.
•Keep handles dry, clean, and free from oil and grease.

⚠ CAUTION

FOR YOUR SAFETY
Always ensure the tool is switched off, and unplugged, and the battery cartridge is removed before attempting to perform inspection or maintenance.

MAINTAIN AIRFLOW
Regularly clean the tool's air vents to prevent overheating and ensure optimal performance. Clean them more frequently if working in dusty environments.

CLEANING
Never use gasoline, benzene, thinner, alcohol, or the like. Discoloration, deformation, or cracks may result.

PROFESSIONAL MAINTENANCE
For optimal safety and reliability, we recommend that repairs, and any other maintenance tasks beyond user capabilities be performed by an Authorized VOGLER Service Center using genuine VOGLER replacement parts.

ENVIRONMENTAL PROTECTION
This electronic device contains components that require special disposal. To protect resources and the environment, please do not

throw it away with regular household garbage. Recycle this product through your local electronics recycling program. If you have any questions, you can also contact your local waste management office or a certified electronics recycler.

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