



**XHD LITHIUM
CORDLESS
JIGSAW
BRUSHLESS 18V -
BARE TOOL**

XHD11



OPERATORS MANUAL



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Note

This manual is for your reference only. Due to the continuous improvement of the XHD Lithium products, changes may be made at any time without obligation or notice.

Thank You

For the purchase of this XHD Lithium product. We try our hardest to supply customers like you with the best quality products available, at the best price possible. We cant wait to continue working together in the future.





SPECIFICATIONS

<i>Length of Stroke</i>	25mm
<i>Strokes per Minute</i>	0–3000RPM
<i>Pendulum</i>	3 Step
<i>Maximum Cutting Capacities</i>	Wood: 90mm
	Metal: 10mm
<i>Net Weight</i>	1.8 kg

Intended Use

The tool is intended for the sawing of wood, plastic and metal materials. The tool can be used for many purposes and is very well suited for curved or circular cuts.



PRODUCT IDENTIFICATION



- | | |
|-----------------------------|------------------------------------|
| 1 Base/Shoe | 9 Vacuum Hose Adaptor |
| 2 Stopper | 10 Self Blow Button |
| 3 Decorative Cover | 11 Pendulum Adjusting Lever |
| 4 Housing | 12 Pendulum Support |
| 5 Ergonomic Grip | 13 Blade Holder |
| 6 Lock On Button | 14 Base Sleeve |
| 7 On/Off Switch | 15 Guide Ruler Screw |
| 8 Bevel Change Lever | 16 Bevel Scale |



SAFETY GUIDELINES



WARNING

READ ALL SAFETY WARNINGS & INSTRUCTIONS. Failure to follow instructions and warnings could lead to serious injury, electric shock, or fire.

Work Area Safety

- **Ensure that your work area is kept clean and well lit.** Lack of visibility and clutter greatly increase the risk of accident when using tools.
- **Keep bystanders, pets, and children clear when operating this power tool or machine.** They can cause distraction or risk injury to themselves.
- **Ensure you are not operating the power tool or machinery in the presence of dust, liquids, flammable gases, or anything that can create an explosive atmosphere.** Power tools and machinery can create sparks which can lead to ignition and fire hazards in working environments.

Personal Safety

- **Always wear personal protective equipment (PPE).** Eye protection, ear protection, dust masks, and other protective equipment will help to reduce the risk of personal injury or long-term illnesses.
- **Dress appropriately. DO NOT wear loose clothing that can get caught in moving parts.** Keep hair, loose clothing, jewellery, and anything else that could

be of risk, away from moving parts in the machine, or they could become caught therein.

- **Always remain alert and DO NOT operate power tools or machinery under the influence of any substances such as alcohol or drugs, including prescription medications.** Lack of focus could lead to injury or accidents while operating these power tools and machinery.
- **Always ensure proper footing and balance.** Overreaching can lead to slipping and falling which can result in injury or accident.
- **Ensure the power switch is in the OFF position before connecting any battery, or power source to the power tool or machinery.** This can cause injury as tools and machinery can suddenly fire incidentally when live, causing accidents.
- **Use all provided dust collection and extraction attachments, if included.** This equipment, along with the use of PPE dust masks, can help keep you safe from dust inhalation, and keep your work site clear from hazards.
- **Ensure loose parts such as wrenches or adjusting keys are removed before starting the power tool or machinery.**



SAFETY GUIDELINES

Power Tool & Machinery Use & Care

- **Use the correct tool for the job.** Forcing a tool to do a job it was not designed for increases the risk of accident or injury.
- **Disconnect tools and machinery from power, or remove batteries before doing any maintenance or adjustments, or before storing the tools and machinery.** This reduces or removes the risk of a power connection that causes the tool or machinery to accidentally fire, which can help prevent injury or accident.
- **Check the general condition of the power tool for damage or any problems that could affect the way the tool or machine works.** An unrepaired tool or machine can lead to accident and injury. Only have your tool or machine repaired with genuine parts from your local distributor
- **Only use the power tool and machinery with genuine parts or accessories that are designed to be used with this power tool and machinery.** Failure to do so could result in accident or injury, or damage your tool or machinery.
- **Store your tool or machinery out of reach of children, and away from untrained personnel when not in use.** Use by somebody untrained, or a child, could lead to accident or serious injury.

Service

- **Have your tools and machinery serviced by your local distributor with genuine XHD Lithium replacement parts.** This will ensure that the safety of the power tool or machine is maintained.



WARNING

The warnings and precautions discussed in this manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

Always Use Common Sense

- It is not possible to cover every conceivable situation you can face. Always exercise care and use your common sense. If you get into a situation where you feel unsafe, stop and seek expert advice. Contact your dealer, service agent, or an experienced user. Do not attempt any task you feel unsure of!
- **Do not let familiarity gained from the frequent use of tools allow you to become complacent and ignore tool safety principles.** A careless action can cause severe injury within a fraction of a second.



SAFETY GUIDELINES

Battery Tool Use & Care

- Prevent unintentional starting. Ensure the switch is in the OFF position before connecting to the battery pack, picking up, or carrying the machine. Carrying the machine with your finger on the switch or energising a machine that has the switch ON invites accidents.
- Disconnect the battery pack from the machine before making any adjustments, changing accessories, or storing the machine. Such preventive safety measures reduce the risk of starting the machine accidentally.
- Recharge the battery only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- Use machines only with specific battery packs. Use of any other battery packs may create a risk of injury and fire.
- When the battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws, or small metal objects, that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.
- Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush the area with water. If liquid contacts eyes, seek medical help. Liquid ejected from the battery may be acidic and may cause irritation or burns.
- Do not use a battery pack or machine that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion, or risk of injury.
- Do not expose a battery pack or machine to fire or excessive temperature. Exposure to fire or temperature above 130°C may cause explosion.
- Follow all charging instructions and do not charge the battery pack or machine outside of the temperature range specified in the instructions.
- Charging the battery improperly, or at temperatures outside of the specified range may damage the battery and increase the risk of fire.
- Have servicing performed by a local XHD distributor using only identical replacement parts. This will ensure that the safety of the product is maintained.
- Do not modify or attempt to repair the machine or the battery pack except as indicated in the instructions for use and care.

Battery Long Life Tips

- Charge the battery cartridge before it is completely discharged. Always stop 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 with room temperature at 10°C – 40°C. Allow a hot battery to cool before charging it.
- Charge the battery cartridge once in every six months if you do not use it for extended periods at a time.



SAFETY GUIDELINES

Jigsaw Specific Safety

- Hold the power tool by its insulated gripping surfaces, when performing an operation where the cutting accessory may contact hidden wiring. Cutting accessory contacting a “live” wire may make exposed metal parts of the power tool “live” and could give the operator an electric shock.
- Use clamps or another practical way to secure and support the workpiece to a stable platform. Holding the work by hand or against your body leaves it unstable and may lead to loss of control.
- Always use safety glasses or goggles. Ordinary eye or sun glasses are NOT safety glasses.
- Avoid cutting nails. Inspect the workpiece for any nails and remove them prior to operation.
- Do not cut oversized workpieces.
- Check for the proper clearance beyond the workpiece before cutting so that the blade will not strike the floor or workbench.
- Hold the tool firmly.
- Ensure the blade is not contacting the workpiece before the switch is turned on.
- Keep hands away from moving parts.
- Do not leave the tool running. Operate the tool only when hand-held.
- Always switch off, and wait for the blade to come to a complete stop before removing the blade from the workpiece.
- Do not touch the blade or the workpiece immediately after operation; they may be extremely hot and could burn your skin.
- Do not operate the tool at no-load unnecessarily.



WARNING

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- ***Lead from lead-based paint,***
- ***Crystalline silica from bricks, cement, and other masonry products, and,***
- ***Arsenic and chromium from chemically-treated lumber.***

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as dust masks that are specially designed to filter out microscopic particles.

OPERATION

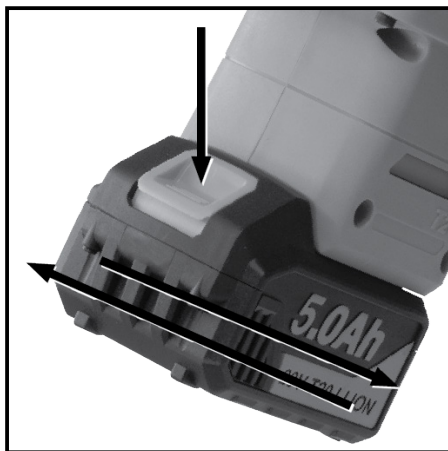


WARNING

Always be sure that the tool is switched off and the battery cartridge is removed before adjusting or checking the tool.

Installing or Removing the Battery

- To remove the battery cartridge, slide it from the tool while depressing the button on the front of the cartridge.
- To install the battery cartridge, align the tongue on the battery cartridge with the groove in the housing and slip it into place. Insert it all the way until it locks in place with a little click. If you can see the red indicator on the upper side of the button, that means it is not locked completely.



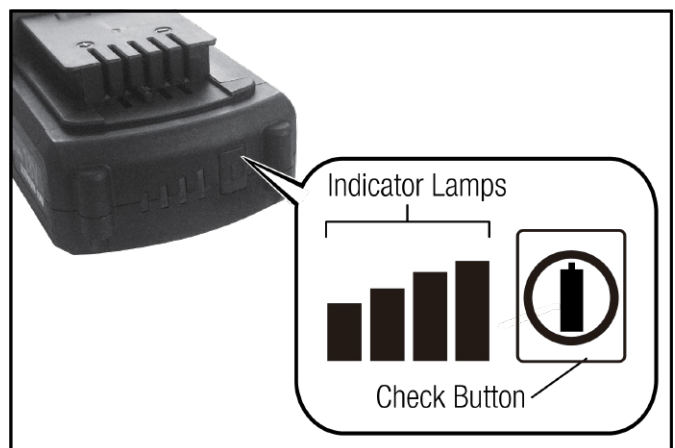
CAUTION

Do not install the battery cartridge forcibly. If the cartridge does not slide in easily, it is not being inserted correctly.

Indicating the Remaining Battery Capacity

- Press the check button on the battery cartridge to indicate the remaining capacity.

NOTE: Depending on the conditions of use and the ambient temperature, the indication may differ slightly from the actual capacity.



INDICATOR LAMPS				REMAINING CAPACITY
 LIGHTED	 OFF	 BLINKING		
				75% to 100%
				50% to 75%
				25% to 50%
				0% to 25%
				Charge the Battery.
				The Battery may have Malfunctioned
				

OPERATION

Tool/Battery Protection System

- The tool is equipped with a tool/battery protection system. This system automatically cuts off 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:

Overload Protection

- When the tool/battery is operated in a manner that causes it to draw an abnormally high current, the tool automatically stops without any indication. 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

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

Over Discharge Protection

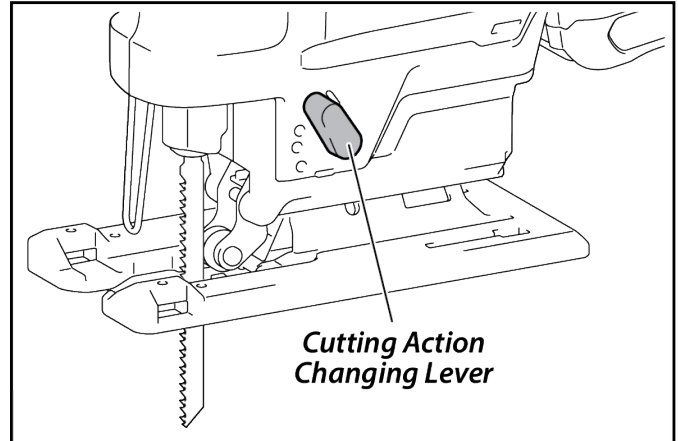
- When the battery capacity is not enough, the tool stops automatically. In this case, remove the battery from the tool and charge the battery.



CAUTION

Before installing the battery cartridge into the tool, always check to see that the switch trigger actuates properly and returns to the "OFF" position when released.

Selecting the Cutting Action



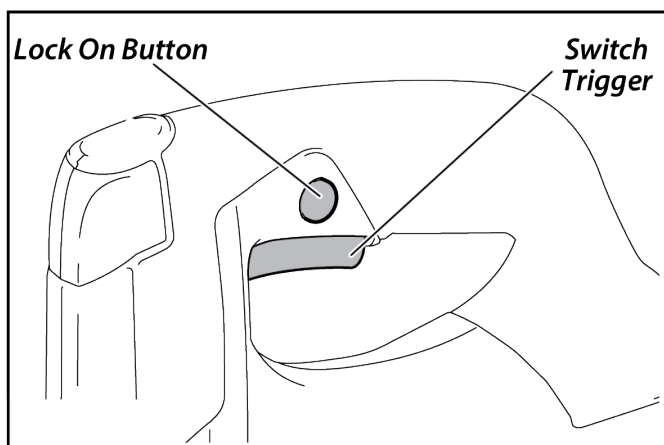
- This tool can be operated with an orbital or a straight line (up and down) cutting action. The orbital cutting action thrusts the jigsaw blade forwards on the cutting stroke and greatly increases cutting speed.
- To change the cutting action, simply turn the cutting action changing lever to the desired cutting action position. Refer to the table below to select the appropriate cutting position.

Position	Cutting Action	Applications
0	Straight line cutting action	For cutting mild steel, stainless steel and plastics.
		For clean cuts in wood and plywood.
I	Small orbit cutting action	For cutting mild steel, aluminium and hard wood.
II	Medium orbit cutting action	For cutting wood and plywood.
		For fast cutting in aluminium and mild steel.
III	Large orbit cutting action	For fast cutting in wood and plywood.

OPERATION

Switch Action

- To turn on the tool, press the lock/unlock button. The tool turns into the standby mode. To start the tool, pull the switch trigger in the standby mode. To stop the tool, release the switch trigger. The tool turns into the standby mode. To turn off the tool, press the lock/unlock button in the standby mode.
- For continuous operation, pull the switch trigger in the standby mode, and then push in the lock on button.
- To stop the tool, pull the switch trigger fully, and then release it.



NOTE: If the tool is left for 10 seconds without any operation in the standby mode, the tool automatically turns off and the lamp goes off.

NOTE: The lock/unlock button is not available while the tool is operating.

Lighting Up the Front Lamp



CAUTION

Do not look in the light or see the source of light directly.

- To turn on the lamp, press the lock/unlock button.
- To turn off the lamp, press the lock/unlock button again.

NOTE: Use a dry cloth to wipe the dirt off the lens of the lamp. Be careful not to scratch the lens of lamp, or it may lower the illumination.



NOTICE

When the tool is overheated, the lamp flickers. Cool down fully before operating the tool again.

Speed Adjusting Dial

- The tool speed can be adjusted by pressing the switch trigger in different power. The speed will be faster if you press harder.
- Refer to the table on the previous page to select the proper speed for the workpiece to be cut. However, the appropriate speed may differ with the type or thickness of the workpiece. In general, higher speeds will allow you to cut workpieces faster but the service life of the blade will be reduced.

OPERATION

Installing Or Removing the Jigsaw Blade



CAUTION

Always clean out all chips or foreign matter stuck to the jigsaw blade and/or blade holder. Failure to do so may cause insufficient tightening of the blade, resulting in serious personal injury.

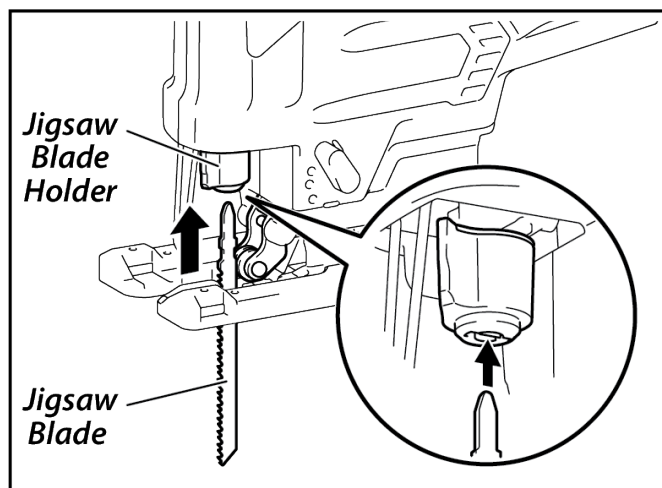
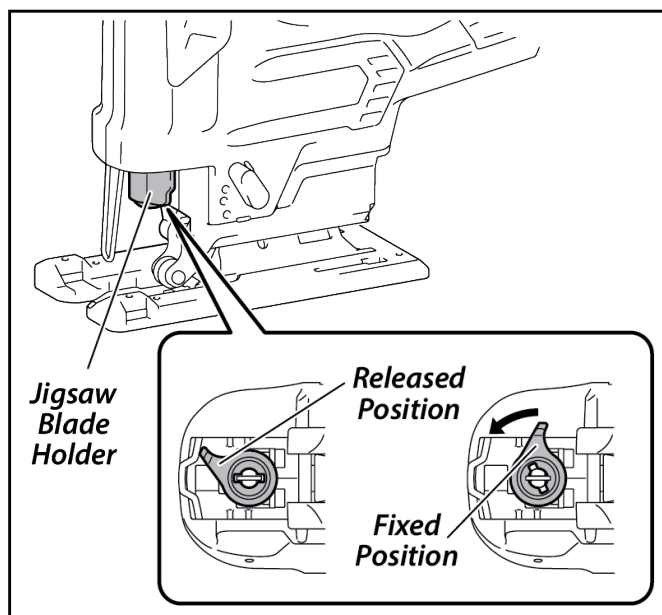
Do not touch the jigsaw blade or the workpiece immediately after operation. They may be extremely hot and could burn your skin.

Always secure the jigsaw blade firmly. Insufficient tightening of the blade may cause blade breakage or serious personal injury.

Use only “B-Type” jigsaw blades. Using blades other than B-Type causes insufficient tightening of the blade, resulting in serious personal injury.

When you remove the jigsaw blade, be careful not to hurt your fingers with the top of the blade or the tips of the workpiece.

- Before installing the jigsaw blade, make sure that the blade clamp lever is in the released position.
- To install the jig saw blade, insert the blade (teeth facing forward) into the blade holder. The lever moves to the fixed position and the blade is locked. Make sure that the back edge of the blade fits into the roller. Pull the blade lightly to make sure that the blade does not fall off during operation.



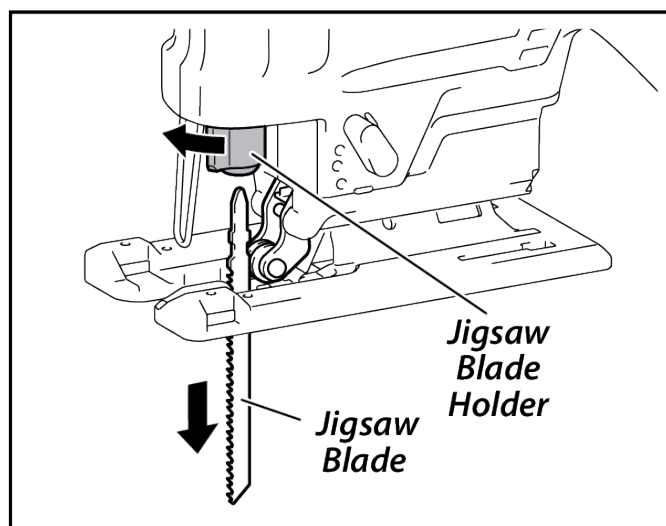
OPERATION



CAUTION

If the lever does not move to the fixed position, the blade is not installed properly. Do not press the lever by hand to the fixed position. It may damage the tool.

- To remove the jigsaw blade, push the lever forward as far as it will go. This allows the blade to be released.



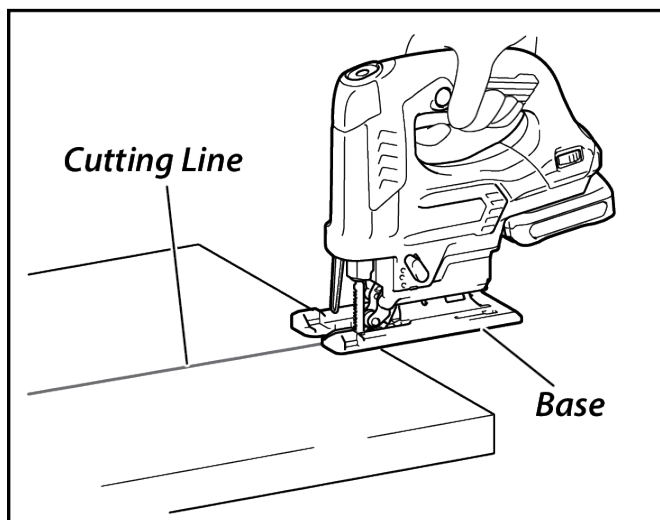
NOTE: Occasionally lubricate the roller.



CAUTION

Always hold the base flush with the workpiece. Failure to do so may cause jigsaw blade breakage, resulting in a serious injury.

Advance the tool very slowly when cutting curves or scrolling. Forcing the tool may cause a slanted cutting surface and jigsaw blade breakage.



- Turn the tool on without the jigsaw blade making any contact and wait until the blade attains full speed. Then rest the base flat on the workpiece and gently move the tool forward along the previously marked cutting line.

Bevel Cutting

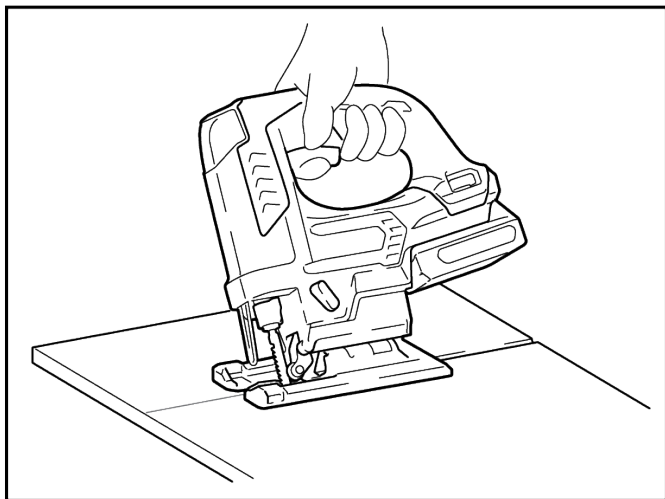


CAUTION

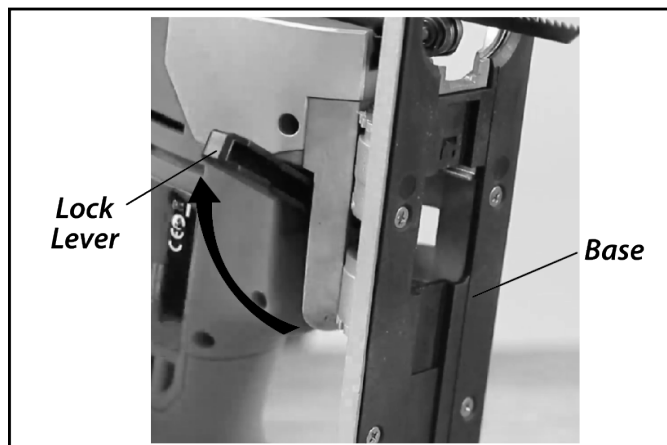
Always be sure that the tool is switched off and the battery cartridge is removed before tilting the base.

- With the base tilted, you can make bevel cuts at any angle between 0° and 45° (left or right).

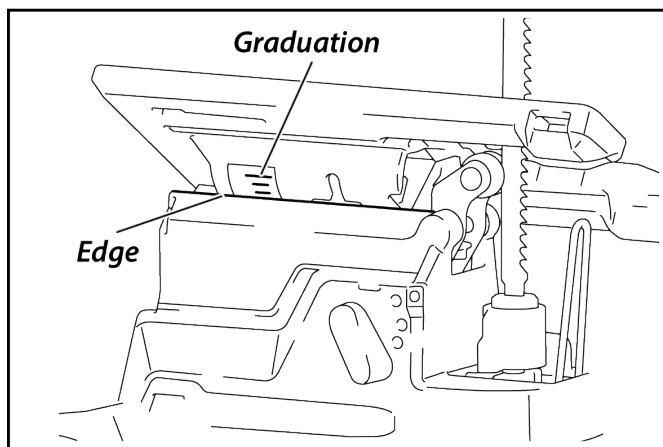
OPERATION



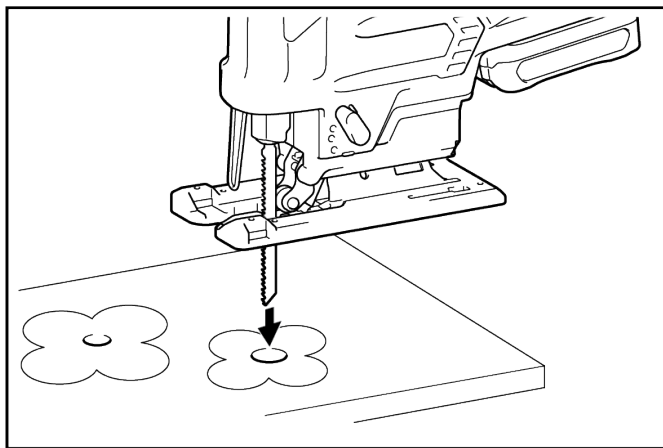
- Loosen the bolt on the back of the base with the hex wrench. Move the base so that the bolt is positioned in the center of the cross-shaped slot in the base.



- Tilt the base until the desired bevel angle is obtained. The edge of the motor housing indicates the bevel angle by graduations. Then return the lever to secure the base.



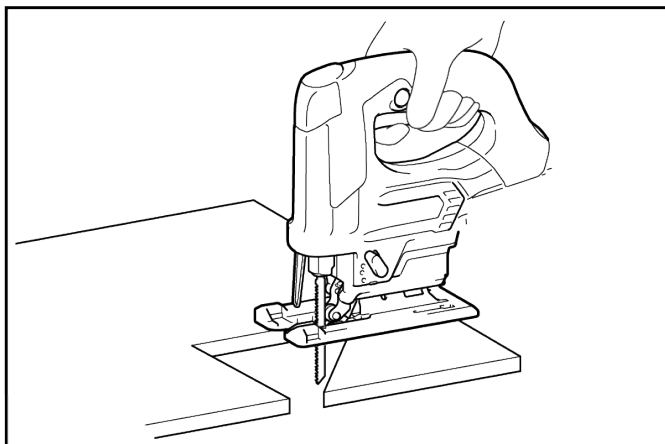
Boring a Starting Hole



- For internal cutouts without a lead-in cut from an edge, pre-drill a starting hole 12mm or more in diameter. Insert the jigsaw blade into this hole to start your cut.

OPERATION

Finishing Edges



- To trim edges or make dimensional adjustments, run the jigsaw blade lightly along the cut edges.

Metal Cutting

- Always use a suitable coolant (cutting oil) when cutting metal. Failure to do so will cause significant jigsaw blade wear. The underside of the workpiece can be greased instead of using a coolant.

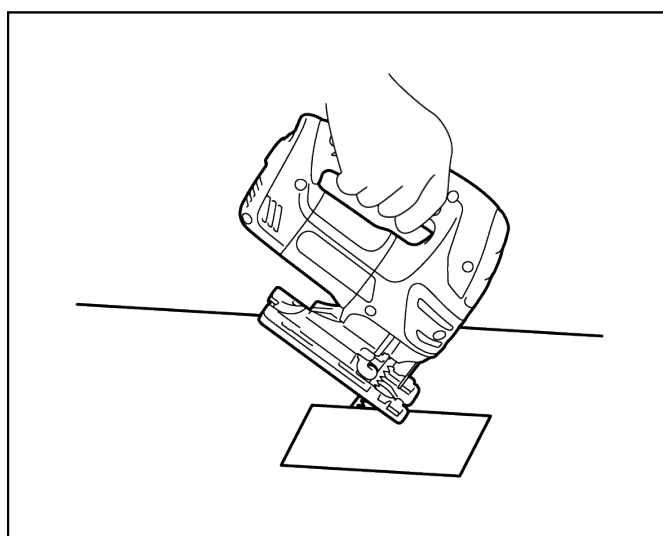
Dust Extraction

- Always use appropriate dust extraction when operating this jigsaw. Failure to control dust may result in inhalation of harmful particles.

Plunge Cutting

Plunge cuts can be made into soft materials without a pre-drilled hole. Harder materials require a starter hole with a diameter slightly over the width of the blade.

- To make a plunge cut:
 1. Set the orbital action selector lever to 0.
 2. Make sure nothing below the intended cut area will be damaged.
 3. Without turning the tool on, place the front edge of the shoe solidly on the workpiece.
 4. Align the blade with the intended cut line, but keep it above the workpiece.
 5. Using the front edge of the shoe as a pivot, turn on the tool and gradually lower the blade into the workpiece.
 6. When the shoe is flat against the workpiece, normal cutting may take place.





MAINTENANCE

- Before cleaning or performing any maintenance, you must ensure the tool is switched off and disconnected from the power supply.
- Compressed air is the most effective way to clean this tool. Always wear PPE safety goggles when cleaning tools with compressed air.
- Ventilation openings and switch levers must be kept clean. DO NOT attempt to clean by inserting pointed objects through openings.
- Do not use harsh chemicals or solvents when cleaning this tool.
- If you discover any damaged or broken parts, consult your local XHD distributor for replacements and advise.

Battery Disposal

- Batteries and electronics should not be disposed of in household garbage. Please return your old batteries to your local distributor for safe and environmentally friendly disposal.
- Together, we can care for the environment.



WARNING

Always be sure that the tool is switched off and the battery removed before attempting to perform any inspection or maintenance.

Environment & Disposal

- Packaging materials are raw materials and can be re-used. Separate the different packaging materials and take them to the appropriate waste disposal facility. More information can be obtained from your local authorities.
- Old machines do not belong in your household garbage! Dispose of old machines appropriately, we are all responsible for the environment.