



***XHD Lithium
Cordless Heavy
Duty Hammer
Drill Brushless
18V - Bare Tool***

TSC30



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.

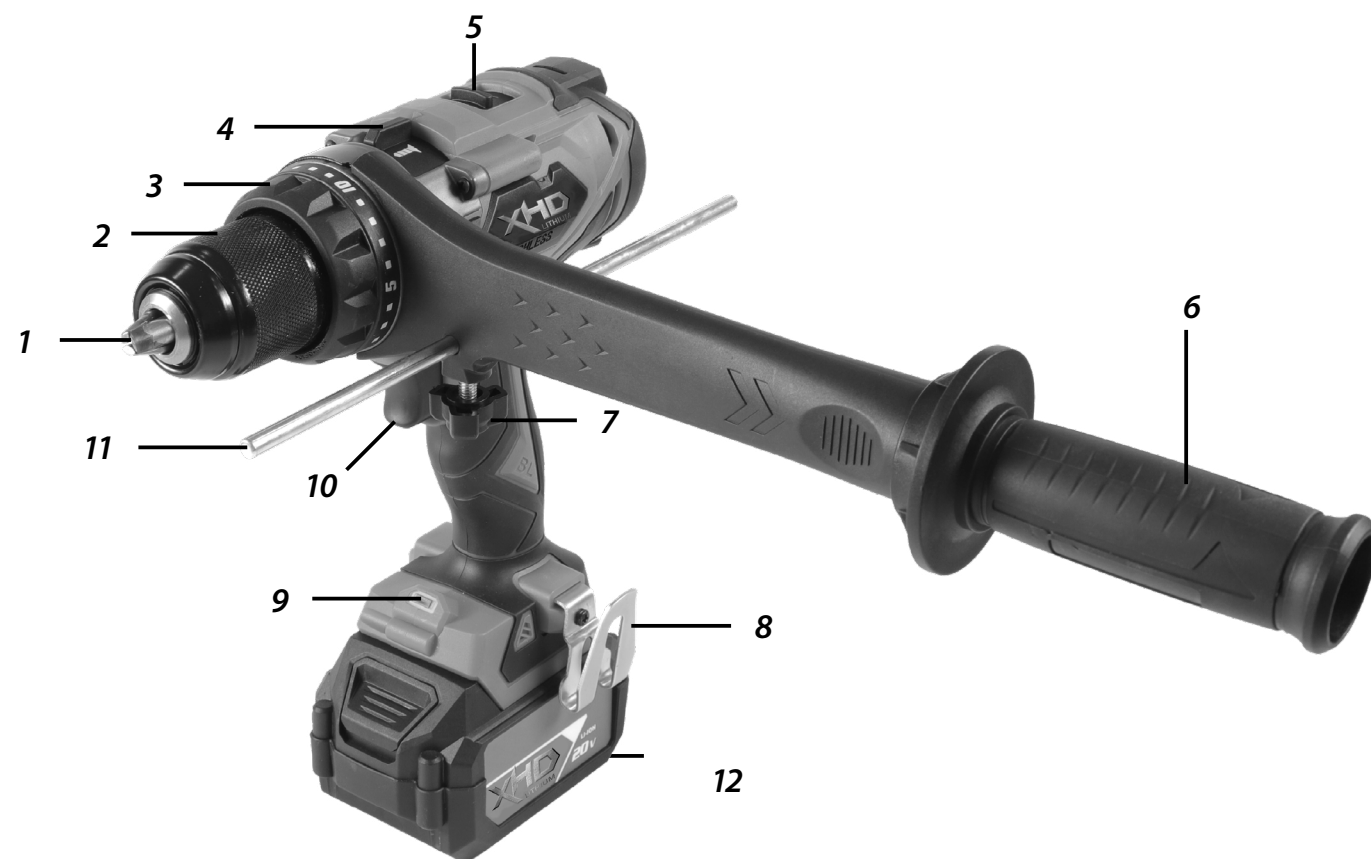


SPECIFICATIONS

<i>Maximum Torque</i>	150 NM
<i>Gears</i>	Two Mechanic
<i>Adjustable Torque Settings</i>	25
<i>No Load Speed</i>	High: 0–2200 RPM Low: 0–550 RPM
<i>Impact Rate</i>	0–8800 0–35200 BPM
<i>Chuck Capacity</i>	13mm (1/2”) Metal Keyless Chuck
<i>Overall Length</i>	230mm
<i>Rated Voltage</i>	18 VDC
<i>Net Weight</i>	1.8 kg



PRODUCT IDENTIFICATION



- 1 Chuck Jaws
- 2 Sleeve
- 3 Adjusting Ring
- 4 Action Mode Selection
- 5 Speed Change Switch
- 6 Auxiliary Handle
- 7 Depth Adjustment Knob
- 8 Hook
- 9 LED Work Light
- 10 Switch Trigger
- 11 Depth Stop Rod
- 12 XHD Battery (Not Included)



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 specifically designated 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 modi-

fied 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 repair person 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 cartridge 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

Hammer Drill Specific Safety

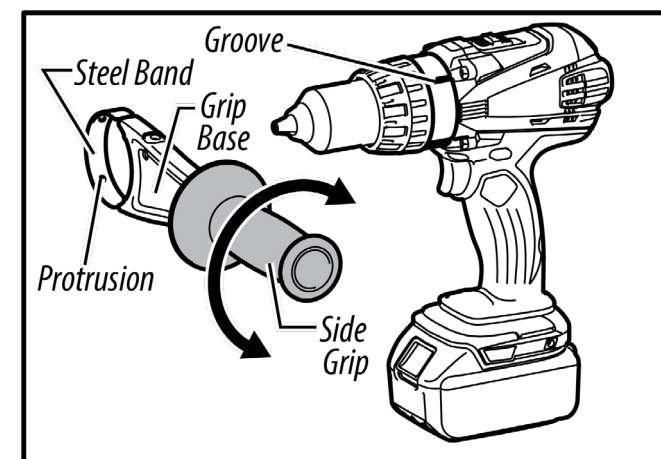
- Wear ear protectors when impact drilling. Exposure to noise can cause hearing loss.
- Use the auxiliary handle(s) supplied with the tool. Loss of control can cause injury.
- Hold the power tool by its insulated gripping surfaces, when performing an operation where the cutting accessory/fastener may contact hidden wiring. Contacting a “live” wire may make exposed metal parts of the power tool “live” and could give the operator an electric shock.
- Always be sure you have a firm footing. Be sure no one is below you when using the tool in high locations.
- Hold the tool firmly. Keep hands and fingers clear from rotating parts.
- Do not leave the tool running. Operate the tool only when hand-held.
- Do not touch the drill bit, or the workpiece immediately after operation; they may be extremely hot and could burn your skin.
- Some material contains chemicals which may be toxic. Take caution to prevent dust inhalation and skin contact.
- Never operate the drill at a higher speed than the maximum speed rating of the drill bit.
- Always start drilling at low speed and with the bit tip in contact with the workpiece. At higher speeds, the bit is likely to bend if allowed to rotate freely without contacting the workpiece, resulting in personal injury.
- Apply pressure only in direct line with the bit and do not apply excessive pressure. Bits can bend causing breakage or loss of control, resulting in personal injury.



ASSEMBLY

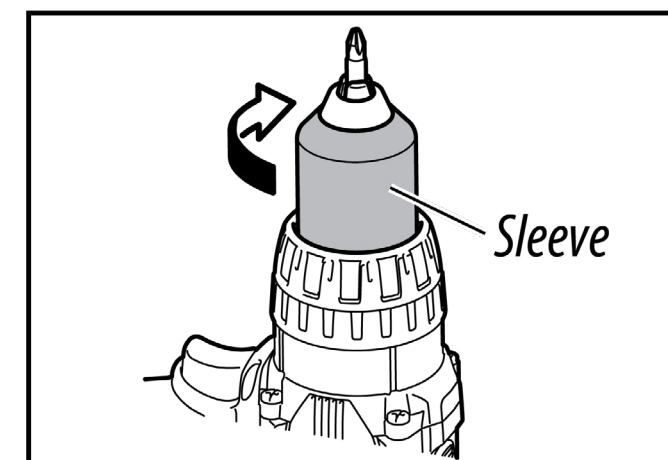
Installing the Side Grip (Auxiliary Handle)

- Always use the side grip to ensure safe operation.
- Insert the side grip so that the protrusions on the grip base and steel band fit in between the grooves on the tool barrel.
- Then tighten the grip by turning clockwise.
- To change the angle of the side grip, loosen and remove the grip, then turn and insert it again.



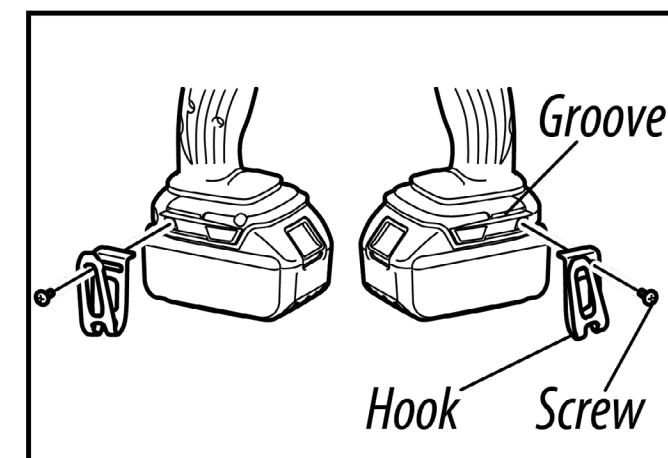
Installing or Removing Driver Bit or Drill Bit

- Turn the sleeve counter-clockwise to open the chuck jaws.
- Place the bit in the chuck as far as it will go. Turn the sleeve clockwise to tighten the chuck.
- To remove the bit, turn the sleeve counter-clockwise.



Installing the Hook

- The hook is convenient for temporarily hanging the tool.
- This can be installed on either side of the tool.
- To install the hook, insert it into the groove in the tool housing on either side, and then secure it with a screw.
- To remove, loosen the screw and then take the hook out.



OPERATION

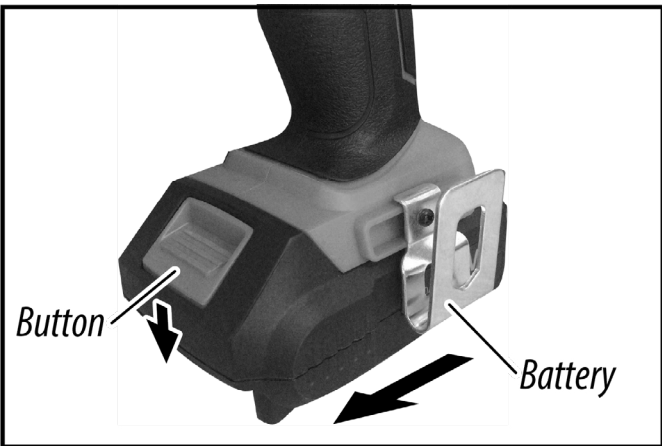


WARNING

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, it is not locked completely.



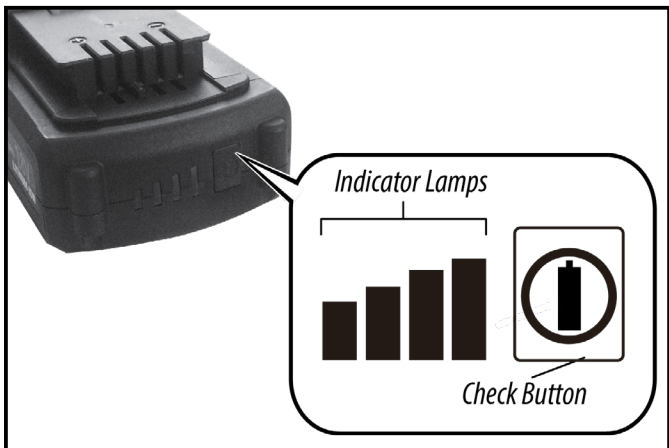
CAUTION

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 battery capacity. The indicator will light up for few seconds.

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.

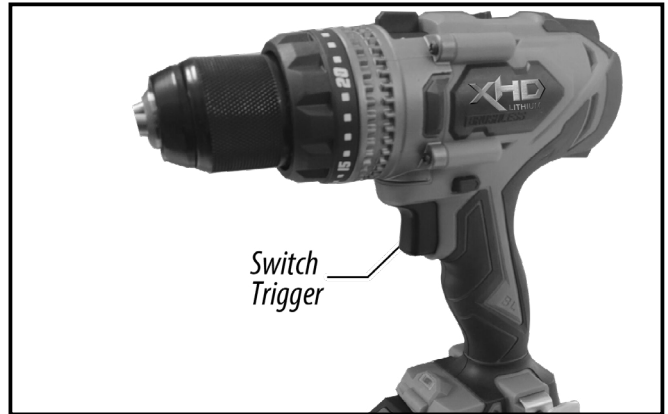


CAUTION

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.

Switch Action

- To start the tool, simply pull the switch trigger. Tool speed is increased by increasing pressure on the switch trigger.
- Release the switch trigger to stop.



Illuminating the Work Light

- Pull the switch trigger to light up the lamp. The lamp stays illuminated while the switch trigger is being pulled. The lamp will go out approximately 10 seconds after releasing the switch trigger.



CAUTION

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

OPERATION

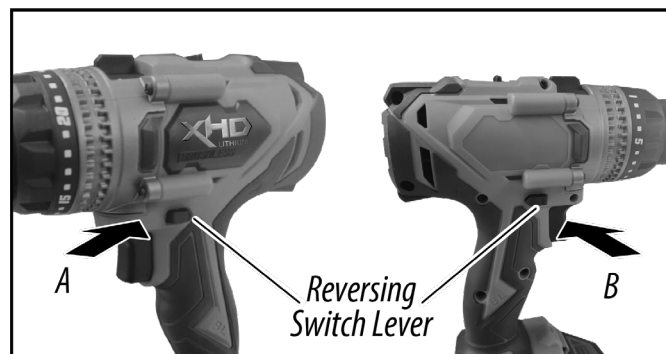
Reversing Switch Action

CAUTION

Always check the direction of rotation before operation.

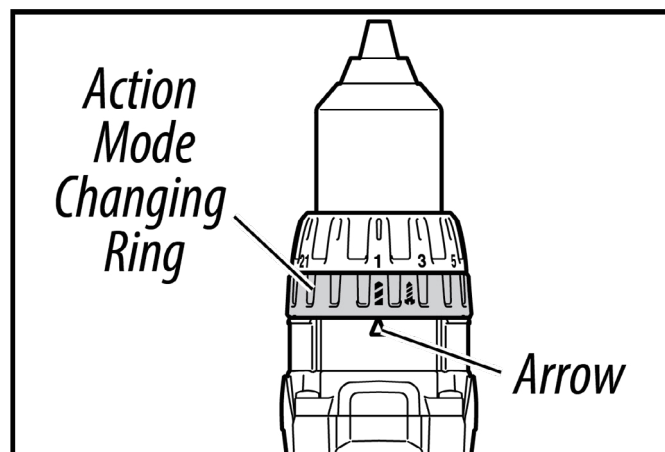
Use the reversing switch only after the tool comes to a complete stop. Changing the direction of rotation before the tool stops may damage the tool.

When not operating the tool, always set the reversing switch lever to the neutral position.



Selecting the Action Mode

- This tool has an action mode changing ring. For drilling, turn the ring so that the arrow on the tool body points toward the mark on the ring. For screwing, turn the ring so that the arrow points toward the mark on the ring.
- First, slide the action mode change lever to the position of symbol.
- The fastening torque is minimum when the lowest number is aligned with the pointer, and maximum when the highest indicator is aligned with the pointer. The clutch will slip at various torque levels when set at the number 1 to 21. Before actual operation, drive a trial screw into your material or a piece of dupli-



WARNING

Always set the ring correctly to your desired mode mark. If you operate the tool with the ring positioned halfway between the mode marks, the tool may be damaged.

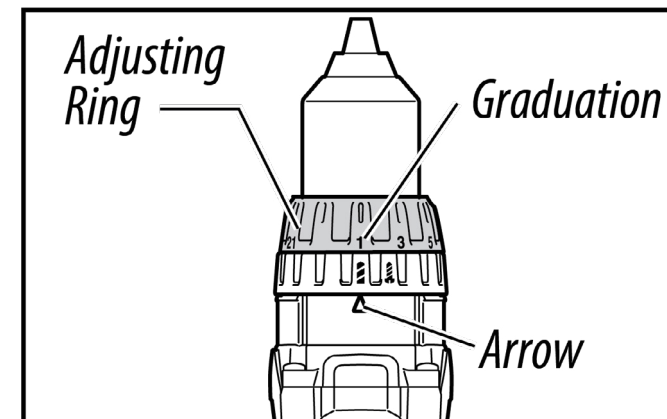
Adjusting the Fastening Torque (Screwdriver Mode “”)

- The fastening torque can be adjusted in 21 steps by turning the adjusting ring so that its graduations are aligned with the pointer on the tool body.
- First, slide the action mode change lever to the position of symbol.
- The fastening torque is minimum when the lowest number is aligned with the pointer, and maximum when the highest indicator is aligned with the pointer. The clutch will slip at various torque levels when set at the number 1 to 21. Before actual operation, drive a trial screw into your material or a piece of dupli-

OPERATION

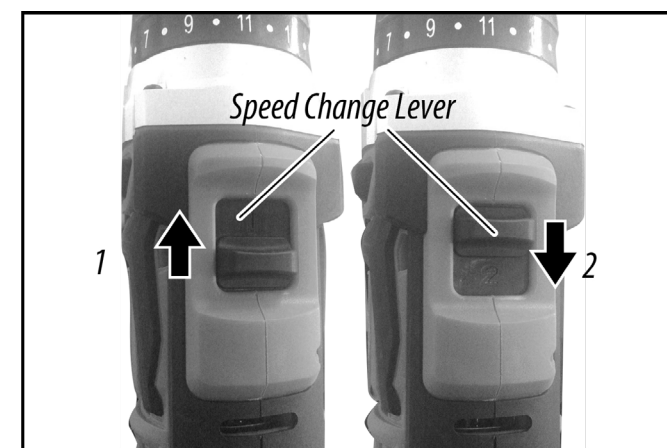
cate material to determine which torque level is required for a particular application.

NOTE: The adjusting ring does not lock when the pointer is positioned only halfway between the graduations.



Speed Change

- To change the speed, switch off the tool. Push the speed change lever to display “2” for high speed or “1” for low speed but high torque. Be sure that the speed change lever is set to the correct position before operation.
- If the tool speed is slowing considerably during the operation with display “2”, push the lever to display “1” and restart the operation.



CAUTION

Do not use the speed change lever while the tool is running. The tool may become damaged.

Displayed Number	Speed	Torque	Applicable Operation
1	Low	High	Heavy Loading Operation
2	High	Low	Light Loading Operation

Screwdriving Operation

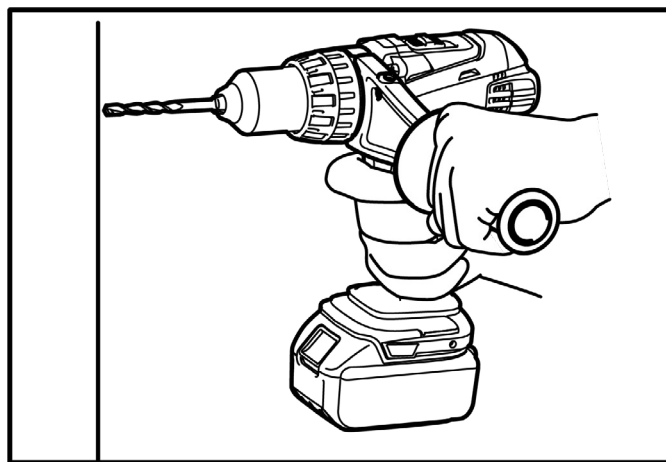
- First, slide the action mode change lever so that it points to the marking. Adjust the adjusting ring to the proper torque level for your work. Then proceed as follows.
- Place the point of the driver bit in the screw head and apply pressure to the tool. Start the tool slowly and then increase the speed gradually. Release the switch trigger as soon as the clutch cuts in.

NOTE: Make sure that the driver bit is inserted straight in the screw head, or the screw and/or bit may be damaged.

When driving wood screws, pre-drill a pilot hole 2/3 the diameter of the screw. This makes driving easier and prevents splitting of the workpiece.

If the tool is operated continuously until the battery cartridge has discharged, allow the tool to rest for 15 minutes before proceeding with a fresh battery.

OPERATION



Drilling Operation

Drilling in Wood

- When drilling in wood, the best results are obtained with wood drills equipped with a guide screw. The guide screw makes drilling easier by pulling the bit into the workpiece.

Drilling in Metal

- To prevent the bit from slipping when starting a hole, make an indentation with a centre-punch and hammer at the point to be drilled. Place the point of the bit in the indentation and start drilling.
- Use a cutting lubricant when drilling metals. The exceptions are iron and brass which should be drilled dry.
- First, slide the action mode change lever so that it points to the  marking. The adjusting ring can be aligned in any torque levels for this operation. Then proceed as follows.



CAUTION

Pressing excessively on the tool will not speed up the drilling. In fact, this excessive pressure will only serve to damage the tip of your bit, decrease the tool performance and shorten the service life of the tool.

There is a tremendous force exerted on the tool/bit at the time of hole break through. Hold the tool firmly and exert care when the bit begins to break through the workpiece.

A stuck bit can be removed simply by setting the reversing switch to reverse rotation in order to back out. However, the tool may back out abruptly if you do not hold it firmly.

Always secure small workpieces in a vice or similar hold-down device.

If the tool is operated continuously until the battery cartridge has discharged, allow the tool to rest for 15 minutes before proceeding with a fresh battery.

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.



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.