

Bäumr-AG



20V Cordless Hammer Drill / Driver HD2

User Manual

[Revision 2.0 November 2018]

READ THIS MANUAL CAREFULLY BEFORE USE – FAILURE TO DO SO MAY RESULT IN INJURY, PROPERTY DAMAGE AND MAY VOID WARRANTY. • KEEP THIS MANUAL FOR FUTURE REFERENCE. • Products covered by this manual may vary in appearance, assembly, inclusions, specifications, description and packaging.

Safety

Read and understand all safety warnings before using the tool.

- Avoid dangerous environments. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite dust or fumes.
- Do not use this product if it is not completely assembled or if any parts appear to be missing or damaged. Use of a product that is not properly and completely assembled could result in serious personal injury.
- Inspect the tool carefully to make sure no breakage or damaged occurred during shipping.
- If any parts are damaged or missing do not operate this tool until the missing parts are replaced. Use of this product with damaged or missing parts could result in serious personal injury.
- Do not attempt to modify this tool or create accessories not recommended for use with this tool. Any alteration or modification is misuse that will void product warranty and could result in a hazardous condition leading to possible serious personal injury.
- To prevent accidental starting that could cause injury, always remove the battery pack from the tool when assembling parts.
- Keep the tool and all components away from children.
- Keep children and bystanders away while operating power tools.
- Keep the work area clean and well lit
- Keep the tool pointed away from yourself and others at all times. Keep hands and body parts away from moving parts and use safety guards.
- Do not allow persons unfamiliar with the tool or its operation to use the tool.
- Use safety equipment. Always wear eye and ear protection. Safety equipment such as dust mask, non-skid safety shoes and hard hat should be used in appropriate conditions.
- Only use parts and accessories recommended by manufacturer.
- Do not modify any part of the tool or its safety mechanisms.
- Do not use in ambient temperatures above 40°C (104°F).
- Do not use the tool outside of its operating parameters. For example, drilling extremely hard materials or using large diameter drill bits.
- Bits may become hot during use – wear suitable protective gloves when handling bits.

Battery and Charging Safety

- Use only with the batteries and battery charger specified by the manufacturer.
- Do not open the battery – danger of short-circuiting.
- Do not attempt to destroy or disassemble battery pack or remove any of its components.
- Do not touch the battery terminals with metal objects and/or body parts as short-circuit and/or personal injury may result.
- Explosion hazard – protect the battery against heat; for example, direct sunlight and fire.
- Explosion hazard – do not short-circuit the battery.

- Poison hazard – battery leakage (liquid ejection) may cause irritation or burns. Under extreme conditions, liquid may be ejected from the battery – avoid contact. If contact occurs, flush with water. If eye contact occurs, flush with clean water for at least 10 minutes and seek medical attention.
- Care when charging. Make sure cord for the battery charger is located so that it will not be stepped on, tripped over, or otherwise subjected to damage or stress. Do not operate the battery charger if it has a damaged cord or plug.
- Dispose of non-serviceable batteries in an environmentally responsible manner.

Servicing

- Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that safety of the tool is maintained.

Intended Use

- Drilling holes in suitable materials (wood, metal, concrete etc).
- Tightening / loosening fasteners (screws, bolts etc).

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Parts Identification



Note that some drill bits / accessories may come supplied with the tool.

No.	Name	No.	Name
1	Tool Body	7	Battery Charge Indicator
2	Chuck	8	Battery
3	Trigger	9	LED Lamp
4	Torque Control Ring	10	Strap
5	Forward / Reverse Selector	11	Battery Charger
6	Speed Selector		

Batteries and Battery Charging



Batteries for this tool are supplied in a low-charge condition for shipping reasons. • A battery that is new or has not been used for a long period does not charge to full capacity until after approximately 5 charge/discharge cycles. • Do not recharge batteries after using them if they are not to be used for an extended period of time. • Recharge batteries only as and when required. • If the battery is warm after use, allow it to cool before charging, otherwise it may not fully charge.

The battery packs can be recharged again and again. However, rechargeable batteries eventually need to be replaced. A significantly reduced working period after charging indicates that the battery is no longer serviceable and should be replaced. Discard old batteries in an environmentally responsible manner.

Charging

The battery charger has a charge status LED indicator:

- **Flashing Red** - Battery charging.
- **Solid Red** - Battery fully charged.

1. Plug the battery charger power supply into a 240VAC mains electrical outlet and switch the supply ON.
2. Slide the battery fully into the battery charger. The indicator LED on the battery charger will be flashing red to show the battery is charging. The indicator will become solid red when the battery is fully charged (approximately 1 to 1.5 hours).
3. When the battery is fully charged, unplug the charger from power supply, then press and hold the battery release button and simultaneously slide the battery pack from the charger.



Inserting and Removing the Battery Pack

Insert the battery pack into the tool handle until it "clicks" into place.

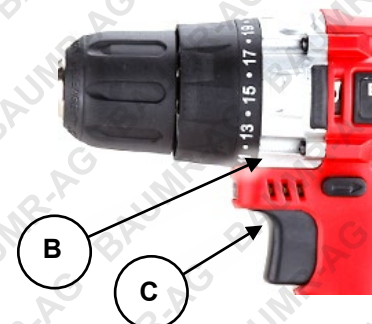
To remove the battery pack, press and hold the battery release button (A) and simultaneously pull the battery from the tool.



Battery Charge Status

The drill has 3 coloured indicators (B) for battery charge status – green, yellow and red. The charge status is shown when the drill is operated (trigger (C) pulled). Status is:

- **Green + Yellow + Red** – Battery fully charged.
- **Green + Yellow** – Battery charge approximately 50%.
- **Red** – Battery close to fully discharged.



Operation

Changing Bits

1. Remove the battery from the tool or place the forward/reverse selector in the centre "trigger lock" position.
2. Hold the tool body firmly with one hand.
3. Rotate the outer ring of the chuck (A) left (anti-clockwise) to open the chuck jaws.
4. Insert the bit into the chuck.
5. Rotate the outer ring of the chuck right (clockwise) to close the chuck jaws until the bit is firmly clamped.



Selecting Speed Range and Controlling Speed



Actual speed is controlled by how much you pull the trigger. Pulling the trigger in fully will apply the highest speed available for the currently selected range. • Do NOT change the speed selector while the tool is running.

- Slide the speed selector switch (B) forward to select the lower speed range (0 to 350 RPM). "1" can be seen on the speed selector switch.
- Slide the speed selector switch (B) backward to select the upper speed range (0 to 1300 RPM). "2" can be seen on the speed selector switch.



Selecting Direction



When the forward / reverse selector (C) is in the middle position, the trigger is "locked". • The image shows the tool in "forward" mode. • Do NOT change direction while the tool is running.

The chuck can rotate "forward" (right or clockwise) for drilling and for screwing in / tightening. Similarly, the direction of rotation can be "reverse" (left or anti-clockwise) for screwing out / loosening.

- To rotate forward, push the forward / reverse selector (C) in fully from the right-side of the tool.
- To rotate in reverse, push the forward / reverse selector (C) in fully from the left-side of the tool.



Selecting Mode and "Torque"

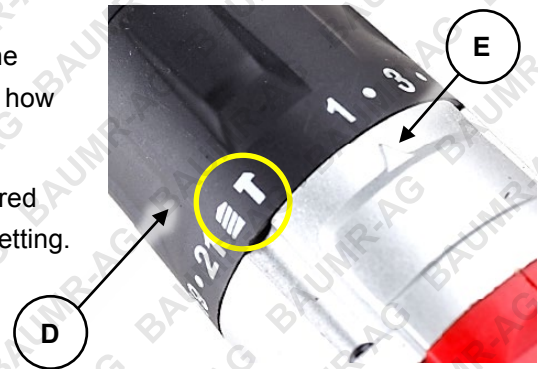


For drill mode operation, "full torque" should be used – this is the "1" setting (circled in the image).

- For impact drill mode, a suitable carbide-tipped masonry bit and "hammer action" must be used – this is the "T" setting (circled in the image).
- For screwdriver mode operation, apply a torque setting that is suitable to the fastener type and material. For example, smaller diameter screws or softer materials may require lower torque than larger screws or harder materials.
- Do NOT change the torque while the tool is running.

The drill has a range of "torque" settings that control how much rotational force to apply before the internal clutch disengages the chuck. This is used for screwing in fasteners, so you can adjust how "tight" the fastener is set.

- To set torque, rotate the torque control ring (D) so the required setting is next to the reference arrow (E). "1" is the lowest setting.



Guidelines for Use



Fully understand all operational [safety warnings](#) before using the tool.

Drilling

- Use the "full torque" setting (1).
- Where possible, and especially on metals and smooth materials, "centre-punch" the hole location.
- Always hold the tool "square" to the face of the work surface. That is, drill straight. Do not apply sideways pressure to elongate holes etc.
- Apply sufficient pressure to cause the drill to cut into the material. Do not use excessive force.
- Adjust speed as required – generally, start the hole at a slower speed until the drill is cutting, then increase speed. Do not use excessive speed or you may over-heat and blunt the bit or cause excessive wear in the tool. Use a speed that is suitable for the drill bit type and material being drilled – harder materials and larger diameter bits require slower cutting speeds.
- When drilling through holes, place a piece of wood under the work-piece to reduce burring / tearing.

Impact (Hammer) Drilling

- Use the "hammer" setting (T).
- Use carbide-tipped masonry bits only and run at high speed.

Screwing

- Use the correct screwdriver bit for the fastener head.
- Use a suitable torque setting for the fastener size and material being screwed into. Generally, smaller diameter screws or softer materials may require lower torque than larger screws or harder materials.
- Apply sufficient pressure to prevent the screwdriver bit slipping from the screw head, especially when using high torque.

Maintenance and Troubleshooting



Remove the battery from the tool before performing any maintenance. • The machine should be cool enough to touch before performing maintenance activities. • Some maintenance activities described may be beyond the scope of some users. For procedures that you are not comfortable with or have the tools or experience for, have the unit serviced by a service centre or qualified technician.

- Clean the tool regularly with a soft cloth – do NOT use water, solvents, abrasives etc. Remove any debris from the chuck and tool ventilation slots using a soft brush.

The following information may assist in identifying a problem and rectifying it.

Drill will not operate.

Possible Fault	Action
No voltage	Ensure the battery is charged and is correctly inserted.



Direction not correctly selected	Ensure that the direction selector is properly set.
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Drilling / Screwing is poor.

Possible Fault	Action
Low voltage	Ensure the battery is charged .



Bit dull or damaged	Sharpen or replace drill bit.
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Material too hard, cutting speed or mode incorrect	Use correct drill bit for the material and operating mode. Adjust speed to suit drill diameter and material hardness. For hammer drilling, use "hammer" mode and high speed.
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Incorrect torque	Adjust torque to suit screw diameter and material.
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Excessive vibration.

Possible Fault	Action
Bit dull, bent or damaged	Sharpen or replace drill bit.

Specifications

Battery Charger Electrical Requirements	240VAC / 50Hz
Battery Type	20V Lithium-Ion
Drilling Speed	0 to 350 RPM – Speed 1 / 0 to 1300 RPM – Speed 2
Chuck Capacity	10mm



Some experts believe the incorrect or prolonged use of almost any product could cause serious injury or death. For information that may reduce your risk of serious injury or death, consult the points below and additionally, the information available at www.datastreamserver.com/safety

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| <ul style="list-style-type: none"> • Consult all documentation, packaging and product labelling before use. Note that some products feature online documentation which should be printed and kept with the product. • Check product for loose / broken / damaged / missing parts, wear or leaks (if applicable) before each use. Never use a product with loose / broken / damaged / missing parts, wear or leaks (if applicable). • Products must be inspected and serviced (if applicable) by a qualified specialist every 6 months assuming average residential use by a person of average weight and strength, above average technical aptitude, on a property matching average metropolitan specification. Intended use outside these guidelines could indicate the product is not suitable for intended use or may require more regular inspection or servicing. • Ensure all possible users of the product have completed an industry recognized training course before being given access to the product. | <ul style="list-style-type: none"> • The product has been supplied by a general merchandise retailer that may not be familiar with your specific application or your description of the application. Be sure to attain third-party approval for your application from a qualified specialist before use regardless of prior assurances by the retailer or its representatives. • This product is not intended for use where fail-safe operation is required. As with any product (take an automobile, aircraft, computer or ball point pen for example), there is always a small chance of technical issues that needs to be repaired or may require replacement of the product or a part. If the possibility of such failure and the associated time it takes to rectify could in any situation inconvenience the user, business or employee then the product is not suitable for your requirements. This product is not for use where incorrect operation or a failure of any kind, including but not limited to a condition requiring product return, replacement, service by a technician or replacement of parts could cause a financial loss, loss of employee time or an inconvenience requiring compensation. • If this item has been purchased in error after considering the points above, simply contact the retailer directly for details of their returns policy, if required. |
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