User Manual

FERREX®

20 V LI-ION CORDLESS ROTARY HAMMER DRILL

FABH 20-I

Original instructions

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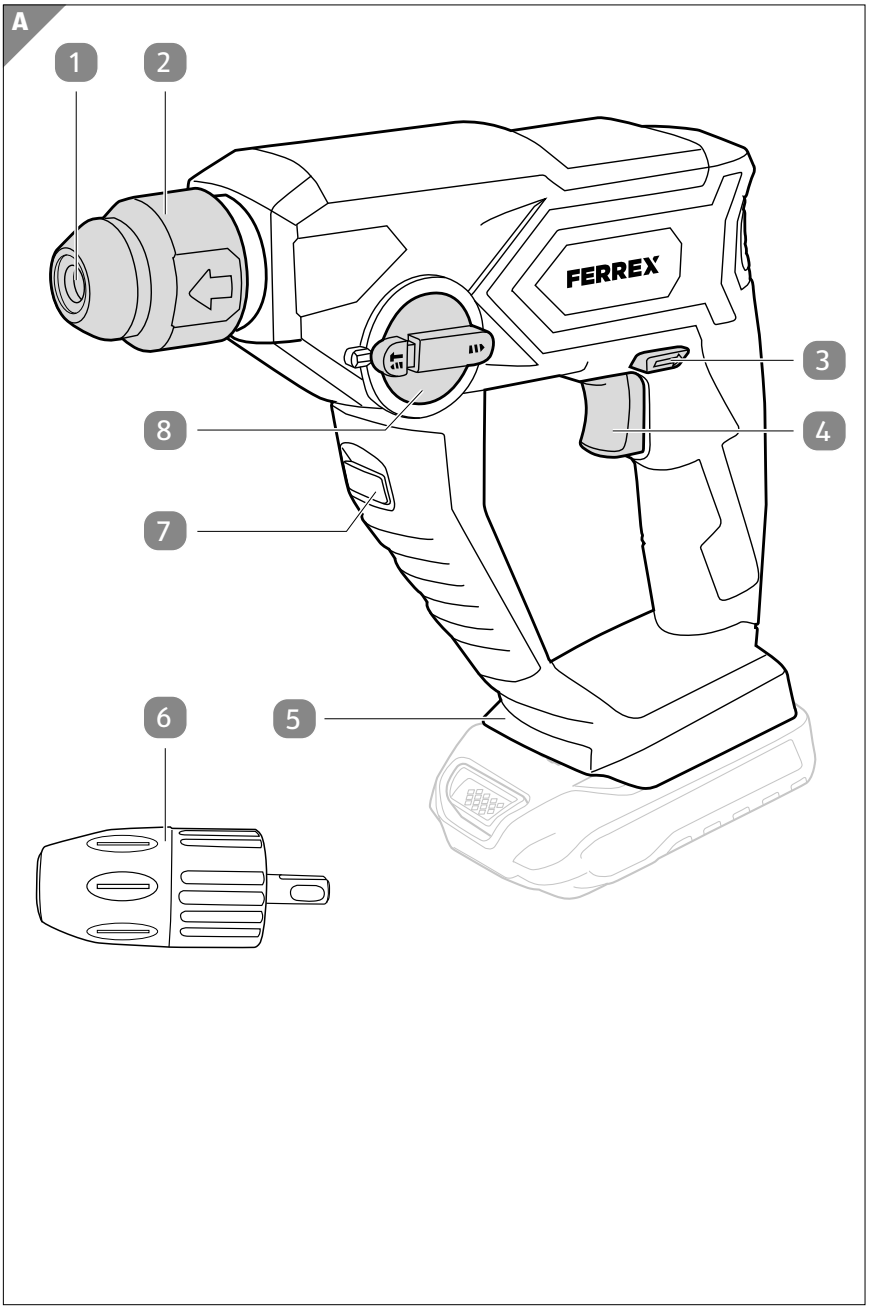
Scope of delivery



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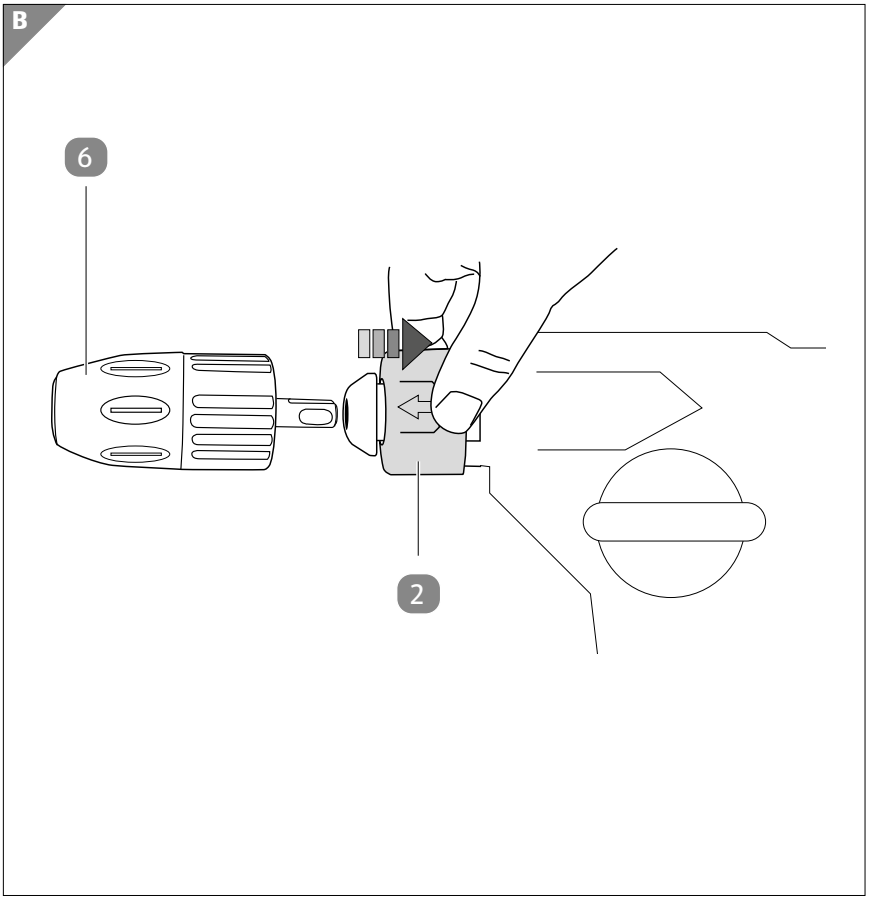
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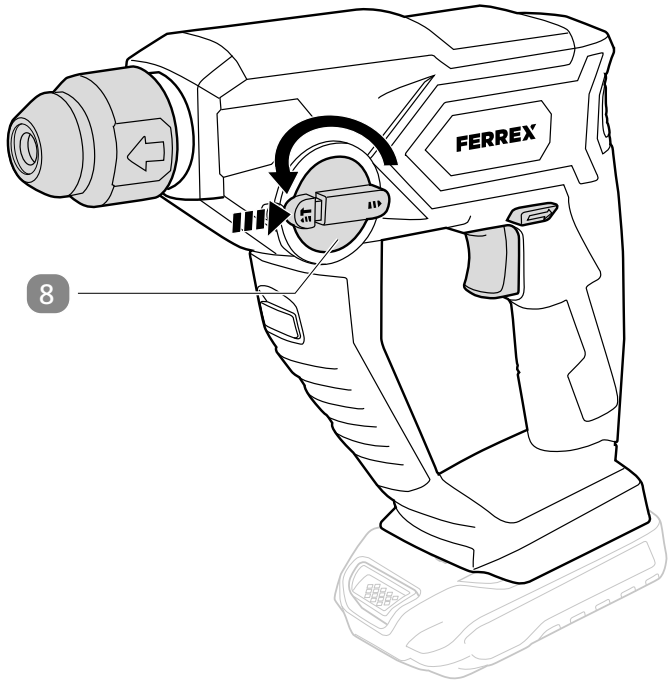

Components

1. SDS-Plus shank holder
2. Locking mechanism of the SDS-Plus shank holder
3. Switch (right-hand/left-hand rotation)
4. On/Off switch
5. Rechargeable battery holder
7. LED work light
8. Changeover switch (Drilling/Hammer drilling)

Connecting elements supplied

6. Quick-action drill chuck

General information

Reading and storing the user manual

This user manual accompanies this 20 V Li-Ion Cordless Rotary Hammer Drill FABH 20-I (referred to below only as the 'product'). It contains important information on safety, usage and care.

Before using the product, read the user manual carefully. Pay particular attention to the safety notes and warnings. Failure to comply with the instructions in this user manual may result in severe injury or damage to the product.

Comply with valid local or national provisions concerning the use of this product. Keep this user manual in a safe place for future reference. Make sure to include this user manual when passing the product on to third parties.

Proper use

The product is only intended for private use – such as hobby or do-it-yourself work – when undertaking the following:

- for hammer drilling into materials such as concrete, brick and stone,
- for drilling into materials such as wood and metal,
- for screwing in and screwing out screws.

Any other applications are expressly prohibited and are deemed improper use.

This product does not come with a rechargeable battery or charger. These must be bought separately: The product can be operated with the 20 V rechargeable battery or with the 20/40 V rechargeable battery available from Activ Energy®. Use only the rechargeable batteries specified in the chapter 'Technical data' for the product. Do not operate the product with rechargeable batteries from other manufacturers.

Neither the manufacturer nor the retailer can accept any responsibility for injury, loss or damage caused by misuse of this product of any kind. Examples of misuse are given in the following non-exhaustive list:

- using the product for other purposes other than those intended;
- failure to observe the safety notes and warnings as well as the assembly, operating, maintenance and cleaning instructions contained in this user manual;
- failure to comply with any regulations relating to accident prevention, occupational health or safety, which specifically and/or generally apply to the use of the product;
- use of accessories and spare parts not intended for the product;
- changes to the product;
- product repairs performed by parties other than the manufacturer or a qualified professional;

- use of the product for commercial, artisan or industrial purposes;
- operation or maintenance of the product by persons not familiar with how to handle the product and/or who are not aware of the related risks.

Residual risks

Despite proper use, inconspicuous residual risks cannot be completely ruled out.

The following risks may arise due to the design of the product:

- lung injury if a suitable dust mask is not worn;
- hearing loss if suitable ear protection is not worn;
- injury to health attributed to hand and arm vibrations if the product is used over a prolonged time or if the product is not guided and maintained properly;
- risk of injury if long hair, loose-fitting clothing or jewellery get caught by rotating device parts.

Explanation of symbols

The following symbols are used in this user manual, on the product or on the packaging.

This symbol provides you with useful supplementary information on assembly or operation.

Declaration of conformity (see chapter “Declaration of conformity”): Products marked with this symbol meet all applicable Community regulations for the European Economic Area.

Read the user manual.

Wear protective goggles.

Wear a dust mask.

Wear ear protection.

Wear suitable secure footwear.

Wear suitable protective gloves.

Information on number of strokes

Safety

Explanation of notes

The following symbols and signal words are used in this user manual.

WARNING!	Indicates a hazardous situation that, if not avoided, could result in death or serious injury.
CAUTION!	Designates a dangerous situation that may result in minor or moderate injury if not avoided.
NOTICE!	Warns against potential damages to property.

General power tool safety instructions

WARNING Read all the safety notes, instructions, illustrations and technical details supplied with this power tool. Failure to follow the safety notices and instructions may result in an electric shock, fire and/or severe injury.

Save all warnings and instructions for future reference.

The term "power tool" used in the safety instructions refers to mains-operated power tools (corded) and battery-powered power tools (cordless).

Work area safety

a) **Keep your work area clean and well lit.** *Cluttered or dark areas invite accidents.*

b) **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 the dust or fumes.*

c) **Keep children and bystanders away while operating a power tool.** *If you are distracted, you could lose control of the power tool.*

Electrical safety

a) **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** *Unmodified plugs and matching outlets will reduce risk of electric shock.*

b) **Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.** *There is an increased risk of electric shock if your body is earthed or grounded.*

c) **Do not expose power tools to rain or wet conditions.** *Water entering a power tool will increase the risk of electric shock.*

d) **Do not use the cord for improper purposes such as for carrying the power tool, for hanging it up or for pulling or unplugging it from the socket. Keep cord away from heat, oil, sharp edges and moving parts.** *Damaged or entangled cords increase the risk of electric shock.*

e) **When operating a power tool outdoors, use only extension cords that are suitable for outdoor use.** *Use of a cord suitable for outdoor use reduces the risk of electric shock.*

f) **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** *Use of an RCD reduces the risk of electric shock.*

Personal safety

a) **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** *A moment of inattention while operating power tools may result in serious personal injury.*

b) **Use personal protective equipment. Always wear eye protection.** *Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.*

c) **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** *Carrying power tools with your finger on the switch or connecting the power tool to a power supply while the switch is set to "on" may lead to accidents.*

d) **Remove any adjusting key or wrench before turning the power tool on.** *A wrench or a key left attached to a rotating part of the power tool may result in personal injury.*

e) **Take care to keep a normal body position. Maintain a stable stance and balance at all times.** *This enables better control of the power tool in unexpected situations.*

f) **Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts.** *Loose clothes, jewellery or long hair can be caught in moving parts.*

g) **If there is an option for installing dust suction devices and dust containers, these should be attached and used correctly.** *Use of dust collection can reduce dust-related hazards.*

h) **Do not be lulled into a false sense of security and ignore the safety rules for power tools, even if you are well acquainted with power tools, having used them frequently.** *Using power tools without due care and attention can cause serious injuries in a split second.*

Power tool use and care

a) **Do not overload the power tool. Use the correct power tool for your application.** *The correct power tool will do the job better and safer at the rate for which it was designed.*

b) **Do not use the power tool if the switch does not turn it on and off.** *Any power tool that cannot be controlled with the switch is dangerous and must be repaired.*

c) **Disconnect the plug from the power source and/or remove the rechargeable battery from the power tool before making any adjustments, changing insertion tools or storing the power tool.** *Such preventive safety measures reduce the risk of starting the power tool accidentally.*

d) **Store idle power tools out of the reach of children. Do not let any individual who is not familiar with the power tool or who has not read these instructions operate this power tool.** *Power tools are dangerous in the hands of untrained users.*

e) **Maintain power tools and insertion tools with care. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation.**

If any parts of the power tool are damaged, have them repaired before use. *Many accidents are caused by poorly maintained power tools.*

f) **Keep cutting tools sharp and clean.** *Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.*

g) **Use the power tool, accessories and fitted tools etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** *Use of the power tool for operations different from those intended could result in a hazardous situation.*

h) **Keep handles and handle surfaces dry, clean and free from oil and grease.** *Slippery handles and handle surfaces will prevent you from operating and controlling the power tools safely in unforeseen situations.*

Cordless tool use and care

a) **Only charge the rechargeable batteries with chargers recommended by the manufacturer.** *Chargers designed for a particular rechargeable battery type pose a risk of fire if used with other types of rechargeable battery.*

b) **Only use the rechargeable batteries designated for use in power tools.** *Using other rechargeable batteries may result in injury and a risk of fire.*

c) **Keep the unused rechargeable battery away from paper clips, coins, keys, nails, screws or other small metallic objects that could bridge the contacts.** *A short circuit between the contacts of the rechargeable battery could result in burns or fire.*

d) **If used improperly, liquid may leak out of the rechargeable battery. Avoid coming into contact with it. Rinse with water in the event of accidental contact. If liquid comes into contact with your eyes, also seek medical attention.** *Fluid leaked from the rechargeable battery may cause skin irritations or burns.*

e) **Do not use a damaged or modified rechargeable battery.** *Damaged or modified rechargeable batteries can be unpredictable and may result in fire, an explosion or a risk of injury.*

f) **Do not expose a rechargeable battery to fire or excessively high temperatures.** *Fire or temperatures above 130 °C may cause an explosion.*

g) **Carefully follow all instructions for charging the battery and never charge the battery or cordless tool outside of the temperature range indicated in the instructions.** *Improper charging or charging outside of the permitted temperature range may damage the battery and increase the risk of fire.*

Service

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

b) **Never perform maintenance on damaged rechargeable batteries.** *Only the manufacturer or authorised service companies may perform maintenance on rechargeable batteries.*

Safety instructions for demolition breakers

a) **Wear ear protection.** *Noise may cause hearing loss.*

b) **Use the extra handles shipped with the device.** *Loss of control may cause injury.*

c) **Hold the device by the insulated handle surfaces when performing work where there is a risk of the fitted tool coming into contact with hidden power lines.** *Cutting accessory contacting a 'live' wire may make exposed metal parts of the power tool 'live' and could give the operator an electric shock.*

Safety notes for drills

1) **Safety notes for all work**

a) **Wear ear protection when drilling.** *Noise may cause hearing loss.*

b) **Use the extra handle(s).** *Loss of control may cause injury.*

c) **Make sure the power tool is well supported before using.** *This power tower generates high torque. Failure to properly support the power tool during operation may result in loss of control and injury.*

d) **Hold the power tool by the insulated handle surfaces when performing work where there is a risk of the fitted tool or screws coming into contact with hidden power supply lines.** *Cutting accessory contacting a 'live' wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.*

2) **Safety instructions for using the long drill bit**

a) **Under no circumstances should you work at a higher rotation speed than the maximum rotation speed permitted for the drill bit.** *Higher rotation speeds can cause the drill bit to warp slightly if allowed to rotate freely without any contact to the workpiece material, which can lead to injury.*

b) **Always begin drilling at a lower rotation speed, and when the drill bit makes contact with the workpiece material.** *Higher rotation speeds can cause the drill bit to warp slightly if allowed to rotate freely without any contact to the workpiece material, which can lead to injury.*

c) **Do not exert any excess force, and only use the drill in a longitudinal direction.** *Drill bits can warp, which can subsequently cause it to break or the user to lose control and can thus cause injury.*

Operation

Checking the product and package contents

1. Lift the product out of the packaging with both hands.
2. Place the product on a level, stable base, such as a workbench.
3. Check whether the product or the individual parts are damaged. If this is the case, do not use the product. Contact the manufacturer via the service address indicated on the warranty card.
4. Check to make sure that the delivery is complete (see **Fig. A**).

Using the SDS-Plus masonry drill

1. Make sure that the product is not moving, and lock the On/Off switch 4 by pushing the switch (right-hand/left-hand rotation) 3 to the middle position (see **Fig. A**).
2. Make sure that the quick-action drill chuck 6 is not in the SDS-plus shank holder 1. The quick-action drill chuck must not be used for hammer drilling into stone, brick or concrete.
3. If necessary, clean the shank of the masonry drill (not included in the product contents) you'd like to use before using it and grease it lightly with drilling grease (not included in the package contents).
4. Pull the locking mechanism of the SDS-Plus shank holder 2 on the product as far back as possible and hold it in this position (see **Fig. B**).
5. Insert the desired masonry drill bit into the SDS-Plus shank on the product and release the SDS-Plus shank holder's locking mechanism so that the drill bit clicks into the SDS-Plus shank holder.

6. If necessary, twist the drill bit slightly into the SDS-Plus shank holder if it does not immediately click into place.
7. Before you start working, make sure that the drill bit has securely locked into place in the SDS-Plus shank holder by trying to pull it out of the SDS-Plus shank holder:

   A securely engaged drill bit can be moved slightly, but it cannot be completely extracted from the SDS-Plus shank holder.
8. **After the work:** Make sure that the product has stopped moving, and lock the On/Off switch by pushing the switch (right-hand/left-hand rotation) to the middle position.
9. Remove the rechargeable battery from the product.
10. Pull the locking mechanism of the SDS-Plus shank holder on the product as far back as possible in order to pull out the drill bit from the SDS-Plus shank holder.

Using the wood or metal drill

NOTICE!

Risk of damage!

Improper handling can damage the product.

- Do not hammer-drill any holes with the quick-action drill chuck.
- Use a cylinder drill bit with the quick-action drill chuck.
- The product is not suited for drilling metal using small drill bits (<6 mm diameter). To drill small, precise holes in metal and to prevent small drill bits from breaking, a bench drill should be used.

1. Make sure that the product is not moving, and lock the On/Off switch 4 by pushing the switch (right-hand/left-hand rotation) 3 to the middle position (see **Fig. A**).
2. If necessary, clean the shank of the quick-action drill chuck 6 you'd like to use before using it and grease it lightly with drilling grease (not included in the package contents).
3. Pull the locking mechanism of the SDS-Plus shank holder 2 on the product as far back as possible and hold it in this position (see **Fig. B**).
4. Insert the shank of the quick-action drill chuck into the SDS-Plus shank holder 1 on the product and release the SDS-Plus shank holder's locking mechanism so that the quick-action drill chuck clicks into the SDS-Plus shank holder.
5. If necessary, twist the quick-action drill chuck slightly into the SDS-Plus shank holder if it does not immediately click into place.
6. Before you start working, make sure that the quick-action drill chuck has securely locked into place in the SDS-Plus shank holder by trying to pull it out of the SDS-Plus shank holder:

The securely engaged quick-action drill chuck can be moved slightly, but it cannot be completely extracted from the SDS-Plus shank holder.

7. Rotate the quick-action drill chuck anticlockwise until you can insert the desired drill bit (not included in package contents).
8. Insert the drill bit into the quick-action drill chuck up to the stop point.
9. Rotate the quick-action drill chuck clockwise until the drill bit is clamped firmly in place.
10. **After the work:** Make sure that the product has stopped moving, and lock the On/Off switch by pushing the switch (right-hand/left-hand rotation) to the middle position.
11. Remove the rechargeable battery from the product.
12. Rotate the quick-action drill chuck anticlockwise until you can pull out the drill bit from the quick-action drill chuck.
13. Pull the locking mechanism of the SDS-Plus shank holder on the product as far back as possible in order to pull out the quick-action drill chuck from the SDS-Plus shank holder.

Using the screwdriver bits

1. Make sure that the product is not moving, and lock the On/Off switch 4 by pushing the switch (right-hand/left-hand rotation) 3 to the middle position (see **Fig. A**).
2. Pull the locking mechanism of the SDS-Plus shank holder 2 on the product as far back as possible and hold it in this position (see **Fig. B**).
3. Insert the shank of the quick-action drill chuck 6 into the SDS-Plus shank holder on the product and release the locking mechanism so that the quick-action drill chuck clicks into the shank holder.
4. Before you start working, make sure that the quick-action drill chuck has securely locked in place in the SDS-Plus shank holder by trying to pull it out of the SDS-Plus shank holder:
   The securely engaged quick-action drill chuck can be moved slightly, but it cannot be completely extracted from the SDS-Plus shank holder.
5. Rotate the quick-action drill chuck clockwise until you can insert the desired drill bit adapter or screwdriver bit (not included in package contents).
6. Insert the desired screwdriver bit or the drill bit adapter with the appropriate insertion depth into the quick-action drill chuck.
7. Rotate the quick-action drill chuck anticlockwise until the screwdriver bit or the drill bit adapter is clamped firmly in place.
8. **After the work:** Make sure that the product has stopped moving, and lock the On/Off switch by pushing the switch (right-hand/left-hand rotation) to the middle position.

9. Remove the rechargeable battery from the product.
10. If necessary, pull the screwdriver bit out of the drill bit adapter.
11. Rotate the quick-action drill chuck anticlockwise until you can pull out the screwdriver bit or the drill bit adapter from the quick-action drill chuck.
12. Pull the locking mechanism of the SDS-Plus shank holder on the product as far back as possible in order to pull out the quick-action drill chuck from the SDS-Plus shank holder.

Using the rechargeable battery

Risk of injury!

Incorrect use of the rechargeable battery and charger can cause injury.

- This product does not come supplied with a battery. Only use the rechargeable batteries specified in the chapter 'Technical data' for the product. Do not operate the product with rechargeable batteries from other manufacturers.
- Read and follow the instructions in the user manual for the battery pack and charger used.

Charging the rechargeable battery

- To charge the battery, follow the instructions described in the user manual for the battery pack and charger used.

Inserting and removing the battery

- To insert the rechargeable battery, slide it into the rechargeable battery holder 5 (see **Fig. A**). The battery audibly locks into place.
- To remove the rechargeable battery, press the battery-release button and pull the rechargeable battery out of the battery holder.

Risk of accident and injury!

There is a risk of accident and injury in the event of accidental activation of the On/Off switch when inserting and removing fitted tools, when making adjustments to the product, and when transporting and cleaning the product.

- Remove the rechargeable battery from the power tool before making any adjustments, changing fitted tools, or storing the power tool.
- Before working with or on the product, put the switch for the direction of rotation into the middle position.
- Never touch the locking mechanism of the SDS-Plus shank holder that is still rotating on the product or the fitted tool that is still rotating. After switching off the product, the locking mechanism on the SDS-Plus shank holder on the product does not immediately stop moving but rather turns slightly.

Risk of accident and injury!

Drilling into concrete and brick masonry could damage power lines, gas lines and water lines. There is a risk of electrocution, gas emission and water damage.

- Before drilling into walls and masonry, check that they do not contain power, gas or water lines.
- Always use both hands to hold the product by the insulated handle areas to protect yourself against an electric shock.

Risk of injury!

Drilling or hammer drilling can cause small stones, drilling chips and sparks, as well as dust, to fly about.

- Wear protective goggles and ear protection when hammer drilling or drilling.
- Also wear a dust mask when drilling or hammer drilling into a material with a loose structure, slabs or concrete and masonry.

Risk of injury!

The drill bits, drill bit adapter and screwdriver bits have sharp edges and can get hot during use, possibly causing injuries or burns.

- Wear protective gloves when clamping and unclamping accessories.

NOTICE!

Risk of damage!

Improper handling can damage the product.

- Make sure that the product has stopped moving before pressing the direction of rotation switch in order to lock the On/Off switch.
- Make sure that the product has stopped moving before changing over the setting from drilling to hammer drilling and vice versa.
- Use only accessories that are designed for this product and can be securely clamped into place in the SDS-Plus shank holder or the quick-action drill chuck.

Using the product

The quick-action drill chuck must not be used for hammer drilling into stone, brick or concrete.

1. Insert the desired drill bit or drill bit adapter and screwdriver bit (not included in the package contents) (see chapter 'Operation').
2. Select the desired mode (see 'Setting the mode and direction of rotation' chapter).
3. Select the desired direction of rotation (right-hand/left-hand rotation) (see 'Setting the mode and direction of rotation' chapter).
4. If necessary, insert the rechargeable battery (not included in the package contents) into the product's rechargeable battery holder 5.
5. Slowly press the On/Off switch 4 (see **Fig. A**). The product starts slowly.
6. Increase the pressure on the On/Off switch to increase the speed. As soon as the product is switched on, the LED work light 7 lights up the drilling site.
7. Let go of the On/Off switch to switch the product off.
8. **If you stop working or put the product down:** Make sure that the product has stopped moving, and lock the On/Off switch by pushing the switch (right-hand/left-hand rotation) 3 to the middle position in order to prevent it from accidentally switching on.
9. An operating temperature between 4 °C and 40 °C is recommended.

Setting the mode and direction of rotation

- Use the changeover switch 8 to select the desired mode (see **Fig. C**).
  - **Drilling/Screwing**: Press the button on the side of the changeover switch and turn the 'drill' symbol to the marker.

- **Hammer drilling**: Press the button on the side of the changeover switch and turn the 'Hammer + Drill' symbol to the marker. Please note that only a little pressure needs to be applied when hammer drilling. Applying too much pressure stresses the motor and could damage it.

– Use the changeover switch (right-hand/left-hand rotation) 3 to select the desired mode (see **Fig. A**).

- **Right-hand rotation:** Push the switch on the right side as far as it goes into the product housing. Use right-hand rotation (product rotates clockwise) for drilling, hammer drilling and tightening screws.
- **Left-hand rotation:** Push the switch on the left side as far as it goes into the product housing. Use left-hand rotation (product rotates clockwise) to loosen screws or remove jammed drill bits out of the hole.

Removing a blockage

If the product locks up, proceed as follows:

1. Immediately let go of the On/Off switch 4 as soon as you notice that the product has locked up.
2. If necessary, pull the drill bit (not included in the package contents) out of the drilling hole.
3. Check whether the blockage is caused by the product by briefly pushing the On/Off switch. Do not point the drill bit towards yourself or other persons and animals.
   - If the product cannot be started, make sure that the switch (right-hand/left-hand rotation) 3 for the direction of rotation is not in the middle position and the rechargeable battery (not included in the package contents) is correctly inserted and sufficiently charged. Now try starting the product again. If the product does not start, please contact the manufacturer's after sales support.
   - If the product is running smoothly, go to step 4.
4. Push the On/Off switch all the way down and apply some pressure to the product.
5. Take occasional breaks and, if necessary, take the drill bit out of the drilling hole so that the drill bit can cool off.
6. Repeat steps 4 to 5 until the blockage has been removed.

Tips and tricks on how to work properly

The information and instructions in this user manual are provided to ensure your personal safety and the safety of other persons. They are also intended to prevent damage.

If you follow the tips and tricks provided below, you can complete your work with the product even more safely and efficiently in a satisfactory manner.

- Please be sure to put down or pick up the product in a switched-off state. Rotating tools can slide off.
- Use only drill bits that are suitable for the respective material to be machined.
- Do not use dull drill bits.
- Do not start drilling into tiles using the 'Hammer drilling' setting (see chapter 'Setting the mode and direction of rotation'). If you do, the ceramic can shatter. Drill at low speed. As soon as you have drilled through the hard glaze, you can switch on the 'Hammer drilling' setting and finish drilling.
- For walls of unknown material or for plaster walls, drill a test hole without the 'hammer drilling' setting. If you want to drill a hole into concrete, the drill will penetrate only a little or not at all. Plaster can be drilled into without excessive force.

Cleaning and maintenance

Risk of electric shock!

Do not immerse the product or let it come into contact with water or other liquids. There is a risk of electrocution.

- Put the switch (right-hand/left-hand rotation) to the middle position to prevent the product from switching on accidentally.
- Remove the rechargeable battery from the product.

NOTICE!

Risk of damage!

Improper cleaning may damage the product.

- Do not use any aggressive cleaners, brushes with metal or nylon bristles, sharp or metallic cleaning utensils such as knives, hard scrapers and the like. They could damage the surfaces.

Cleaning the product

- Clean the product after each use.
- Clean the outside of the product and the quick-action drill chuck regularly with a dry or slightly moist cloth.

- Always keep the vent slots on the housing free of dust to prevent the product from overheating.
- If necessary, use a soft cloth to rub down the product and accessories after cleaning.

Inspecting the product

Check the condition of the product regularly. Among other things, check to make sure:

- the switches 3 / 4 / 8 are not damaged (see **Fig. A**),
- the SDS-Plus shank holder 1 and the quick-action drill chuck 6 are in perfect condition,
- the vents are unobstructed and clean. If applicable, use a soft brush to clean them.

If you identify any damage, you must have it repaired by a specialist workshop to prevent risks.

There are no parts that the user needs to service or lubricate inside the product.

Transport

- Always hold the product by the grip areas when carrying it.
- Switch off the product and remove the rechargeable battery (not included in the package contents) when transporting the product.
- Protect the product and accessories from severe impacts and vibrations.
- Secure the product from falling down, falling over and sliding on inclined surfaces.

Storage

- Remove the rechargeable battery (not included in the package contents) from the product when you are not using it and store separately.
- Store the product and the quick-action drill chuck in a dry place inaccessible to children.
- Always store the battery in a dry place.
- Protect the battery from direct sunlight.
- Store the battery so that it is not accessible to children, securely locked away and at a storage temperature between 5 °C and 20 °C (room temperature).

Troubleshooting

Problem	Possible cause	Solution
Device does not work	The rechargeable battery (not included in the package contents) is not charged.	Charge the rechargeable battery.
The On/Off switch 4 is not functioning.	The switch (right-hand/left-hand rotation) 3 is in the middle position.	Set the switch to right-hand or left-hand rotation.
The product will not start.	The carbon brushes may be worn out.	Contact a qualified workshop.
The drill bit does not penetrate or barely penetrates the material to be drilled into.	You are using an incorrect drill unsuitable for the material to be drilled into.	Select the right drill bit.
	You want to drill into concrete or masonry and the switch (right-hand/left-hand rotation) 3 is set to the left-hand rotation.	Switch the drill to hammer drilling and set the switch (right-hand/left-hand rotation) to right-hand rotation in order to drill this material.

If faults and malfunctions are not listed here, contact the manufacturer's After Sales Support via the service address indicated on the warranty card.

Technical data

Article number:	802099
Model:	FABH 20-I
Model number:	WU5420373 / WU5420374
Idle speed n_0:	0–900 rpm
Number of strokes ⟵:	0–5000 min^{-1}
Shifting gear:	Drilling, hammer drilling
Impact energy:	1.2 joules
Drilling capacity:	Concrete: 10 mm Steel: 8 mm Wood: 16 mm
Absorption capacity of the quick-action drill chuck:	Ø 0.8–10 mm

Battery and charger information

Use the product only in combination with Activ Energy® batteries and chargers with the following technical specifications:

Suitable for Activ Energy®

Rechargeable battery type:	20 V ⎓ / 2.0 Ah / 36 Wh / Li-Ion
Models:	AEB 20-2.0I / AEB 20-2.0N / XYZ561
Charging time:	approx. 45 min.
Rechargeable battery type:	20 V ⎓ /2.5 Ah (×2) / 90 Wh / Li-Ion
Models:	AEB 2040-2.5I / AEB 2040-2.5N / XYZ562
Charging time:	approx. 95 min.
Charger type:	21 V ⎓ / 4.0 A
Models:	AEC 20-4.0Ia / AEC 20-4.0Ic / AEC 20-4.0Na / XYZ563

Please see the technical specifications for the rechargeable battery and charger. Rechargeable batteries and chargers are separately available in your Aldi store.

Noise/vibration information

WARNING!

Health hazard!

Working without wearing hearing protection or protective clothing can lead to health problems.

- Wear ear protection and suitable protective clothing when working with the device.

WARNING!

The vibration and noise emission values may differ from the level specified while actually using the power tool.

This depends on the manner in which the power tool is used, in particular which type of workpiece is being machined.

The specified vibration total values and the specified noise emission values have been measured on the basis of a standardised test procedure and can be used to compare power tools with one another.

The specified vibration total values and the specified noise emission values can be used for a provisional impact assessment.

Measured in accordance with DIN EN 62841-2-1 and DIN EN 60745-2-6. The noise at your workplace may exceed 85 dB(A); protective measures are necessary in this case (wear suitable ear protection).

Noise emission values in accordance with EN60745-2-6:

- Sound pressure level L_{pA}: 80 dB(A)
- Sound power level L_{wA}: 91 dB(A)
- Uncertainty K: 3 dB(A)

Noise emission values in accordance with EN62841-2-1:

- Sound pressure level L_{pA}: 71 dB(A)
- Sound power level L_{wA}: 82 dB(A)
- Uncertainty K: 5 dB(A)

The aforementioned values are noise emission values and therefore do not necessarily represent safe values for the workplace. The correlation between emission and emission levels cannot reliably provide for a conclusion as to whether additional cautionary measures are necessary or not.

Factors that could affect the respective immission level at the workplace involve the specification of the work area, the surrounding area, the duration of exposure, other noise sources, etc.

You must also observe any divergences in national regulations with respect to the permissible workplace levels. The aforementioned information does, however, allow the user to better assess dangers and risks.

Vibration for rotary hammers:

- Hammer drilling $a_{h, HD}$: 4.6 m/s²
- Uncertainty K: 1.5 m/s²

Vibration for drills:

- Drilling into metal $a_{h, D}$: 4.6 m/s²
- Uncertainty K: 1.5 m/s²

WARNING!

The aforementioned vibration emission level (vibration value) has been measured in accordance with a test method standardised in DIN EN 62841-1 and DIN EN 60745-1 and can be used to compare one power tool to another. It is also suited for preliminary estimation of loading by vibration. The actual vibration emission value can, as described below, differ by type of application:

- condition of the product and proper maintenance respectively,
- the type of material and use of the product,
- use of the right accessories and whether they are in good condition;
- a firm grip on the product by the user,
- proper use of the product as described in this user manual.

Any improper use of the product can cause vibration-related ailments.

WARNING!

Depending on how the tool is used and the operating conditions, the following safety precautions must be taken to protect the user:

- Avoid exposure to vibrations as much as possible.
- Only use accessories in perfect working order.
- Wear vibration-proof gloves when using the product.
- Maintain and service the product in accordance with this user manual.
- Avoid using the product at temperatures below 10 °C.
- Plan your work steps to avoid working with heavy vibration tools over several days.

Disposal

Disposing of the packaging

Dispose of the packaging separated into single type materials. Dispose of paperboard and cardboard with wastepaper and plastics with recyclable waste.

Disposing of the product

– Dispose of the product in accordance with the disposal regulations in force in your country.

Old devices must not be disposed of with household waste!
This symbol indicates that this product must not be disposed of together with domestic waste in compliance with the Directive (2012/19/EU) pertaining to waste electrical and electronic equipment (WEEE). This product must be handed in at a collection point intended for the purpose. This can occur, for example, by handing it in at an authorised collecting point for the recycling of waste electrical and electronic equipment. Owing to potentially hazardous substances that are frequently contained in waste electronic equipment, incorrect handling of waste equipment may have a negative impact on the environment and on the health of human beings. By disposing of this product correctly, you are also contributing towards an efficient use of natural resources. Information on collecting points for waste equipment can be obtained from your municipal authorities, the public law disposal authorities, an authorised institution for the disposal of waste electrical and electronic equipment or the waste collection services.

Declaration of conformity

GB IE

Conmetall Meister GmbH
Oberkamper Straße 39
42349 Wuppertal
Germany

CE

EC Declaration of Conformity

We declare with sole responsibility, that the product listed below …	20 V LI-ION CORDLESS ROTARY HAMMER DRILL FABH 20-I

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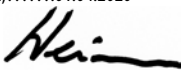
… meets all of the requirements of the listed directives.	2011/65/EU (RoHS) 2006/42/EC (MD) 2014/30/EU (EMC)

Applied, harmonized standards:	EN 62471:2008 EN 62841-1:2015 EN 62841-2-1:2018 EN 60745-2-6:2010 EN 55014-1:2017 EN 55014-2:2015 EN 50581:2012 EN ISO 12100:2010

Wuppertal,……..01.04.2020



Ingo Heimann (M.Sc.)
Technical direction/Product development
Conmetall Meister GmbH, Oberkamper Straße 39, 42349 Wuppertal, Germany
Authorized person for storing the technical documentation.

Great care has gone into the manufacture of this product and it should therefore provide you with years of good service when used properly.
In the event of product failure within its intended use over the course of the first 3 years after date of purchase, we will remedy the problem as quickly as possible once it has been brought to our attention. In the unlikely event of such an occurrence, or if you require any information about the product, please contact us via our helpline support services, details of which are to be found both in this manual and on the product itself.

GB IE

PRODUCED IN CHINA FOR:

ALDI STORES LTD. PO BOX 26, ATHERSTONE
WARWICKSHIRE, CV9 2SH.

ALDI STORES (IRELAND) LTD.
PO BOX 726, NAAS, CO. KILDARE.
Visit us at www.aldi.com

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3 YEAR WARRANTY