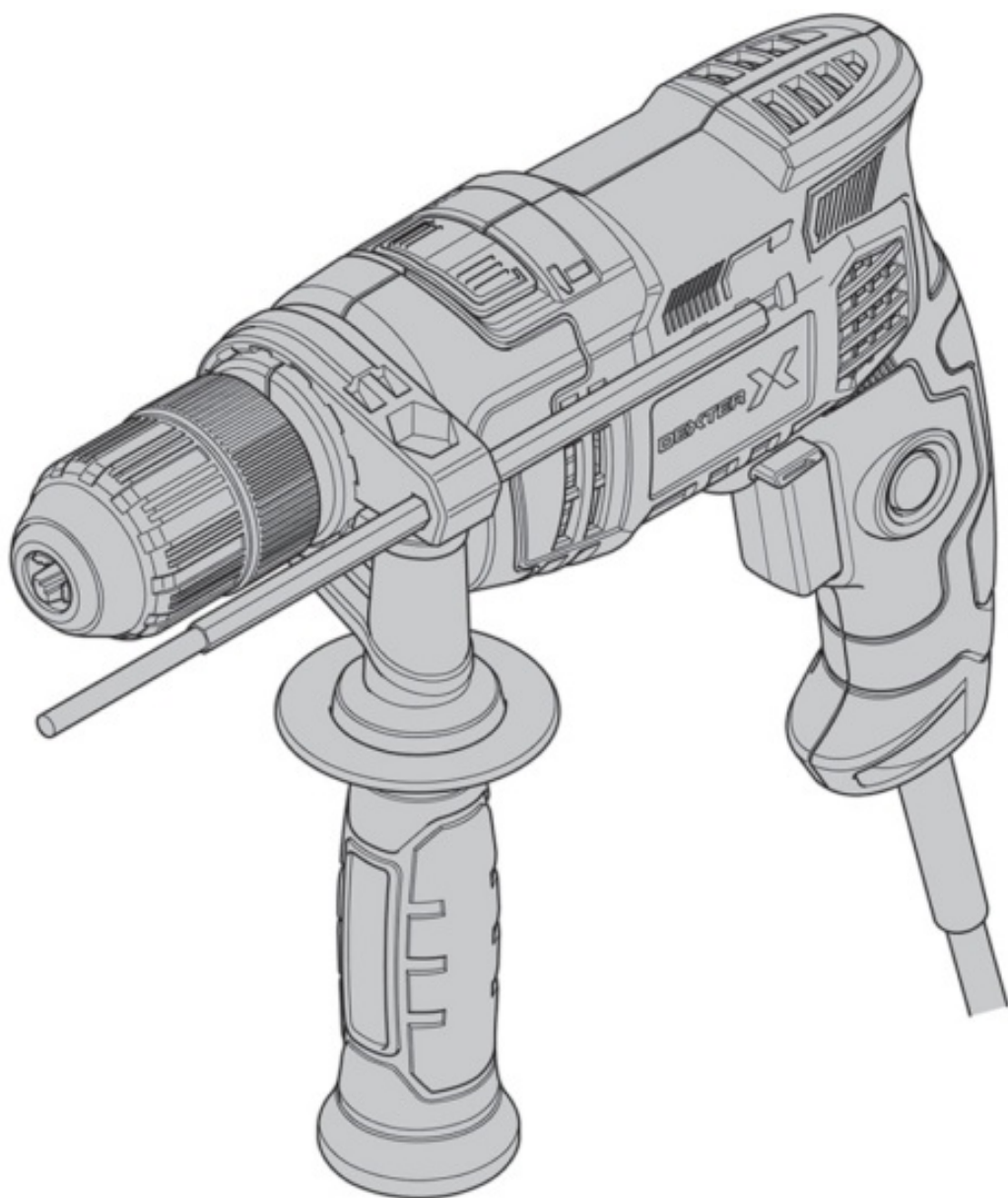




## DEXTER 650ID2.5AA1 Impact Drill Instruction Manual

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DEXTER 650ID2.5AA1 Impact Drill



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## **SYMBOLS**



To reduce the risk of injury, user must read instruction manual



In accordance with essential applicable safety standards of European directives



Class II machine – Double insulation – You don't need any earthed plug



Denotes risk of personal injury, loss of life or damage to the tool in case of non-observance of the instructions in this manual



Indicates electrical shock hazard.



Faulty and/or discarded electrical or electronic apparatus have to be collected at the appropriate recycling locations



Immediately unplug the plug from the mains electricity in the case that the cord gets damaged and during maintenance.



Wear eye protection



Wear dust mask



This product is recyclable. If it cannot be used anymore, please take it to waste recycling centre.



In accordance with essential applicable standards of Russian directives



In accordance with essential applicable standards of Ukrain directives



Wear hearing protection

## INTENDED USE

The machine is designed for impact drilling in brick, concrete and stone as well as for drilling in wood, metal and plastic with suitable attachments. Do not use machine attachments for works other than those for which they are designed for! All other applications are expressly ruled out.

Do not use machines in severe cold, moist or other extreme environments.

## SAFETY INSTRUCTIONS

### GENERAL POWER TOOL SAFETY WARNINGS



**WARNING! Read all safety warnings, instructions, illustrations and specifications provided with this power tool.** Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

## **SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE.**

*The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.*

### **WORK AREA SAFETY**

- a) Keep 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.** Distractions can cause you to lose control.

### **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 EN power tool will increase the risk of electric shock.
- d) Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.
- e) When operating a power tool outdoors, use an extension cord 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 offposition 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 energising power tools that have the switch on invites 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) Do not overreach. Keep proper footing 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 devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of dust collection can reduce dust-related hazards.
- h) Do not let familiarity gained from 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.

### **POWER TOOL USE AND CARE**

- a) Do not force 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 battery pack, if detachable, from the**

**power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.

**d) Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.

**e) Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool 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 tool bits 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 grasping surfaces dry, clean and free from oil and grease.** Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

#### 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.

#### DRILL SAFETY WARNINGS

##### SAFETY INSTRUCTIONS FOR ALL OPERATIONS

**a) Wear ear protectors when impact drilling.** Exposure to noise can cause hearing loss.

**b) Use the auxiliary handle(s).** Loss of control can cause personal injury.

**c) Brace the tool properly before use.** This tool produces a high output torque and without properly bracing the tool during operation, loss of control may occur resulting in personal injury.

**d) Hold the power tool by insulated gripping surfaces, when performing an operation where the cutting accessory may contact hidden wiring or its own cord.** 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 INSTRUCTIONS WHEN USING LONG DRILL BITS

**a) Never operate at higher speed than the maximum speed rating of the drill bit.** At higher speeds, the bit is likely to bend if allowed to rotate freely without contacting the workpiece, resulting in personal injury.

**b) 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.

**c) 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.

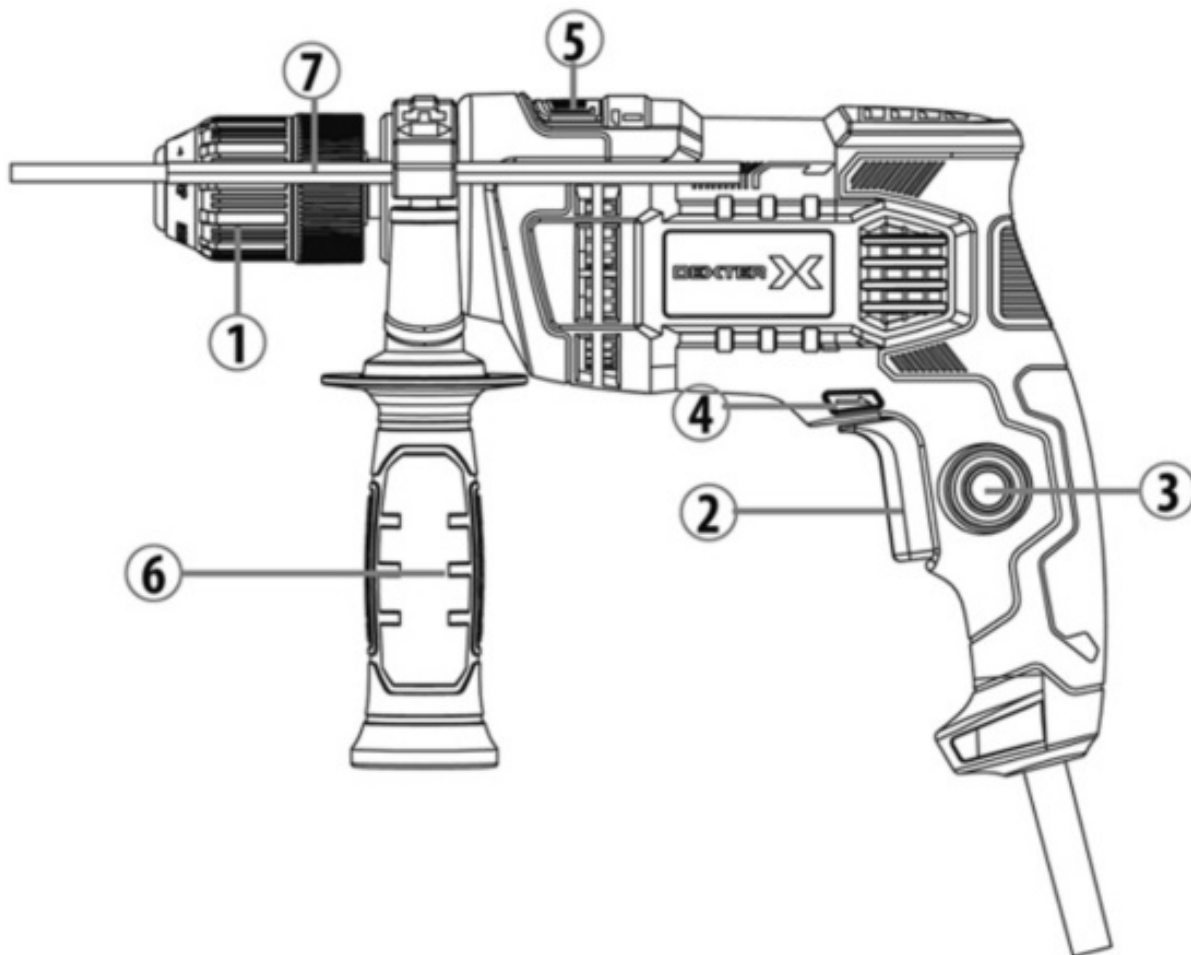
- If possible, always use clamps or a vice to hold your work.
- Always switch off before you put the drill down.
- Ensure that the lighting is adequate.
- Keep the area free of tripping hazards.
- Only use accessory bits in good condition.
- Before drilling, check that there is sufficient clearance for the drill bit under the workpiece.
- Do not touch the bit after operation. It will be very hot.
- Keep your hands away from under the workpiece.
- Never use your hands to remove dust, chips or waste close by the bit.
- Rags, cloths, cord, string and the like should never be left around the work area.
- Support the work properly.

- If you are interrupted when operating the drill, complete the process and switch off before looking up.
- Periodically check that all nuts, bolts and other fixings are properly tightened.
- When using the drill, use safety equipment including safety glasses or shield, hearing protection, and protective clothing including safety gloves. Wear a dust mask if the drilling operation creates dust.
- Children and frail people must not use this tool. Children should be supervised at all times if they are in the area in which the tool is being used. It is also imperative that you observe the accident prevention regulations in force in your area.
- Even when the tool is used as prescribed it is not possible to eliminate all residual risk factors.

**THE FOLLOWING HAZARDS MAY ARISE IN CONNECTION WITH THE TOOL'S CONSTRUCTION AND DESIGN:**

- ✓ Damage to the lungs if an effective dust mask is not worn.
- ✓ Damage to hearing if effective hearing protection is not worn.
- ✓ Hand-arm vibration syndrome if its use is not adequately managed.

**DESCRIPTION**



1. Keyless chuck
2. On/Off Switch
3. Lock-on button
4. Forward/reverse switch
5. Impact/Drill switch
6. Auxiliary handle
7. Gauge

## TECHNICAL DATA

<b>Type designation</b>		<b>650ID2.5AA1</b>
<b>Rated voltage</b>		127V~60Hz
<b>Rated power input</b>		650W
<b>Speed, n0</b>		0-2800/min
<b>Max. chuck diameter</b>		Ø13mm
<b>Drilling capacity</b> — in metal — in concrete — in wood		10mm 13mm 30mm
<b>Level of acoustic pressure LpA (KpA=3dB(A))</b>		92.5 dB(A)
<b>Level of acoustic power LwA (KwA =3dB(A))</b>		103.5 dB(A)
<b>Level of vibration ah (K=1.5m/s<sup>2</sup>)</b>	<b>Drilling into steel aH,D</b>	5, 174m/s <sup>2</sup>
	<b>Impact drilling into concrete a h,ID</b>	10,860m/s <sup>2</sup>

### NOTE:

- the declared vibration total value and the declared noise emission values have been measured in accordance with a standard test method and may be used for comparing one tool with another;
- the declared vibration total value and the declared noise emission values may also be used in a preliminary a

ssessment of exposure.  **WARNING:**

- the vibration emission and noise emissions during actual use of the power tool can differ from the declared total value depending on the ways in which the tool is used, especially what kind of work piece is processed;
- Identify safety measures to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time).

Depending on the actual use of the product the vibration values can differ from the declared total! Adopt proper measures to protect yourself against vibration exposures! Take the whole work process including times the product is running under no load or switched off into consideration! Proper measures include among others regular maintenance and care of the product and application tools, keeping hands warm, periodical breaks and proper planning of work processes!

## BEFORE PUTTING THE EQUIPMENT INTO OPERATION





**WARNING: The device should be disconnected from the mains before putting into operation.**

#### To install the bit

When selecting a drill bit, use the right type for your job. For best performance, always use sharp drill bit.

1. To open the chuck jaws, hold its collar while turning the sleeve in the counterclockwise direction. Insert the drill bit deeply into the chuck, and then center the bit in the chuck jaws.
2. To close the chuck jaws, hold the collar while turning the sleeve in the clockwise direction. Tighten securely.
3. Remove the drill bit in reverse order.



**NOTE:** The chucks of reversible drills are always fixed by a screw with a left hand thread.

The screw must be loosed before the chuck can be removed if necessary. To loosen the screw, turn it in a clockwise direction.

#### Forward /reverse adjustment

1. For forward (clockwise) rotation, push the forward /reverse switch to the left position.
2. For reverse (counterclockwise) rotation, push the forward/reverse switch to the right position. Although an interlock prevents reversing the tool while the motor is running, allow it to come to a full stop before reversing.



**WARNING: If forward/reverse switch is on the central position, the tool can not be switched on.**

#### Auxiliary Handle

An auxiliary handle is packed with the drill for ease of operation and to help prevent loss of control. The handle can be rotated 360° and it can also be mounted on the opposite side for left hand use.


- Loosen the handle by turning the handle counterclockwise.
- Rotate the handle to the desired operating position.
- Securely tighten by turning the handle clockwise.


#### Depth gauge

Change the position of the depth gauge, turn the grip of the handle anti-clockwise until the depth gauge is loose enough to slide in the hole. Set the depth, checking the depth with a steel ruler for most accurate measurement and then turn the handle grip clockwise to tighten both the depth gauge and the auxiliary handle in the required position.

#### Selecting the impact/drill mode

The impact/drill switch should be set according to the type of action required. The tool has two settings:

- Drill mode : For drilling into wood and metal. Use standard drill bits.

– Impact mode  : For drilling into stone and masonry. Use masonry drill bits.

## OPERATION

### Variable speed trigger switch



**WARNING: Always check that the power supply is the same as that indicated on the nameplate of the tool.**

This tool has a variable speed switch which can reach higher speed with increased trigger pressure.

Speed is controlled by the pressure to the switch trigger. The variable speed feature is particularly useful when starting drilling. It also enables you to select the best speed for a particular application.

### Start drilling

Start the tool by squeezing the variable speed trigger switch.

Release the trigger to stop the tool.

If you press the lock on button while the trigger switch is depressed, the switch is kept in the operating position.

This is convenient when continuous operating for extended periods of time is required.

To release the lock on button, press and release the trigger switch.

### Hole drilling

When attempting to drill a large diameter hole, it is sometimes best to start with a smaller drill bit then work up to the required size.

This prevents overloading the drill.



**WARNING: Many accidents occur because of unforeseeable situations. Please pay attention that drilling-out a small hole may cause the drill bit to jam in the hole, especially when drilling metal.**

Remember to use a “wood-pecker” action on deep holes to allow the swarf to be ejected from the hole.

If the drill bit snags, switch off immediately to prevent permanent damage to the drill.

Try running the drill in reverse to remove the bit.

Keep the drill in line with the hole. Ideally, the drill bit should enter at right angles to the work. If the angle is changed during drilling, this could cause the bit to snap off blocking the hole and perhaps causing injury.

Reduce pressure as the drill is about to break through the item being drilled.

Don't force the drill, let it work at its own pace.

Keep the drill bit sharp.

### Drilling wood

For maximum performance when drilling larger holes, use auger bits or spade bits for wood drilling.

Set the tool to the drill mode.

Begin drilling at a very low speed to prevent the bit from slipping off the starting point. Increase the speed as it bites into the wood.

When drilling through holes, place a block of wood behind the work piece to prevent ragged or splintered edges on the back of the hole

## Drilling metal

For maximum performance, use HSS drill bits for metal drilling.

Set the tool to the drill mode.

Mark off the centre of the hole using a centre punch.

Use a suitable lubricant for the material you are working on.

Begin drilling at a very low speed to prevent the bit from slipping off the starting point.

Always clamp sheet metal. Support thin metal with a block of wood to avoid distorting it.

## Drilling masonry

For maximum performance, use high quality carbide-tipped masonry drill bits when drilling holes in brick, tile, concrete etc.

Use the drilling mode initially then revert to the impact mode once the holes are established.

Apply light pressure and medium speed for best results in brick.

Apply additional pressure and high speed for hard materials such as concrete.

When drilling holes in tile, practice on a scrap piece to determine the best speed and pressure.



**NOTE:** Reverse rotation during impact drilling may damage the drill and drill bit.

## MAINTENANCE



Always disconnect the device before performing any adjustment or maintenance operation. If the supply cord of this power tool is damaged, it must be replaced by a specially prepared supply cord available through the service organization.

Disconnect from the power supply immediately if the supply cord is damaged.

Take care not to expose this tool to the rain.

If the carbon brushes need to be replaced, have this done by a qualified repair person (always replace the two brushes at the same time)

## Cleaning

Avoid using solvents when cleaning plastic parts. Most plastic parts are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use clean cloths to remove dirt, carbon dust, etc.

## Lubrication

All the bearings in this tool are lubricated with a sufficient amount of high grade lubricant for the life of the unit under normal operating conditions, therefore no further lubrication is required.

## TROUBLE SHOOTING

Suspected malfunctions are often due to causes that the users can fix themselves. Therefore check the product using this section. In most cases the problem can be solved quickly.



**WARNING! Only perform the steps described within these instructions! All further inspection, maintenance and repair work must be performed by an authorised service centre or a similarly qualified specialist if you cannot solve the problem yourself!**


Problem	Possible cause	Solution
<b>Product does not start</b>	Not connected to power supply	Connect to power supply
	Power cord or plug is defective	Check by a specialist electrician.
	Other electrical defect to the product	Check by a specialist electrician
<b>Product does not reach full power</b>	Extension cord not suitable for operation with this product	Use a suitable extension cord
	Power source (e.g. generator) has too low a voltage	Connect to another power source
	Air vents are blocked	Clean the air vents
<b>Unsatisfactory result</b>	Drill bit is worn	Replace with a new one
	Drill bit not suitable for work piece material	Use suitable drill bit

## DISPOSAL AND RECYCLING



Electrical products must not be thrown out with domestic waste. Recycle them at the special disposal centers provided for the purpose.

Contact your local authorities or stockiest for advice on recycling.

 The potential effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment.

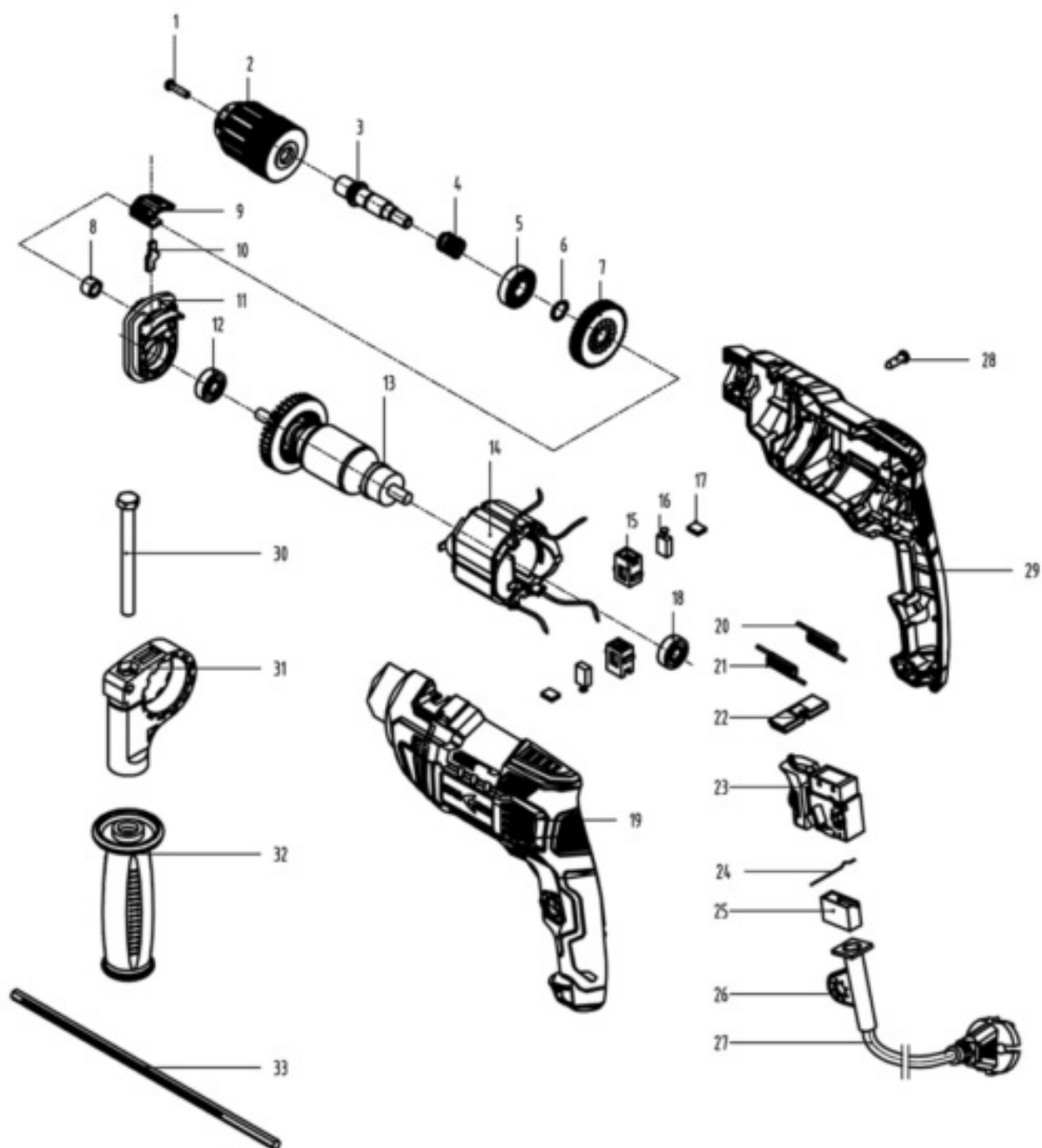
For disposal, this tool also can be returned to the hardware store or vendor (or Dexter dealer).

## WARRANTY

1. Dexter products are designed to highest DIV quality standards. Dexter provides a 36 months warranty for this machine {product code: 6501D2.5AA 1}, from the date of purchase. This warranty applies to all material and manufacturing defects which may arise. No further claims are possible, of whatever nature, direct or indirect, relating to people and /or materials. Dexter products are not directed to professional use.
2. In the event of a problem or defect, you should first always consult your Dexter dealer. In most cases, the Dexter dealer will be able to solve the problem or correct the defect.
3. Repairs or the replacement of parts will not extend the original warranty period.
4. Defects which have arisen as a result of improper use or wear are not covered by the warranty. Amongst other things, this relates to switches, protective circuit switches and motors, in the event of wear.

5. Your claim upon the warranty can only be processed if:
  - Proof of the purchase date can be provided in the form of a receipt.
  - No repairs and/or replacements have been carried out by third parties.
  - The tool has not been subjected to improper use {overloading of the machine or fitting non-approved accessories}.
  - There is no damage caused by external influences or foreign bodies such as sand or stones.
  - There is no damage caused by non-observance of the safety instructions and the instructions for use.
  - There is no force majeure on our part.
  - A description of the complaint is enclosed.
6. The warranty stipulations apply in combination with our terms of sale and delivery.
7. Faulty tools to be returned to Dexter via Dexter dealer will be collected by Dexter as long as the product is properly packaged. If faulty goods are sent directly to Dexter by the consumer, Dexter will only be able to process these goods if the consumer pays the shipping costs.
8. Products which are delivered in a poorly packaged condition will not be accepted by Dexter.

## **DETAILED VIEW**



This product is recyclable. If it can not be used anymore, please take it to waste recycling centre .

Made in P.R.C 2021

SN:1098340027042101338359

3-year ,guarantee



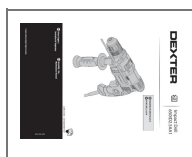
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# DEXTER

## Documents / Resources



[DEXTER 650ID2.5AA1 Impact Drill](#) [pdf] Instruction Manual  
650ID2.5AA1, Impact Drill, 650ID2.5AA1 Impact Drill