User Instruction Manual

IMPACT DRILL

DL-CZ13-E3 DL-CZ13-E3-G

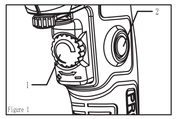


Figure 1

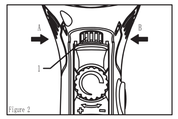


Figure 2

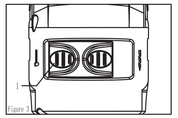


Figure 3

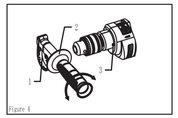


Figure 4

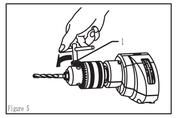


Figure 5

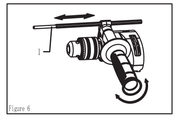


Figure 6

Explanation of general view

1-1. Switch trigger
1-2. Lock lever
2-1. Reversing switch lever
3-1. Impact block
4-1. Side grip
4-2. Teeth
4-3. Protrusions
5-1. Chuck key
6-1. Depth gauge

SPECIFICATIONS

Voltage / Frequency:	220-240V 50/60Hz
Rated Input Power :	1050W
No-load speed:	0-3000rpm
Impact drill:	0-48000bpm
Max drill diameter:	13mm

- Due to our continuing programme of research and development, the specifications herein are subject to change without notice.
- Specifications may differ from country to country.

Intended use
The tool is intended for drilling

Power supply in wood, metal and plastic.
The tool should be connected only to a power supply of the same voltage as indicated on the nameplate, and can only be operated on single-phase AC supply. They are double-insulated and can, therefore, also be used from sockets without earth wire.

⚠WARNING:
- The vibration emission during actual use of the power tool can differ from the declared emission value depending on the ways in which the tool is used.
- Be sure to 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).

General Power Tool Safety Warnings

⚠ **WARNING Read all safety warnings and all instructions.** Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

DRILL SAFETY WARNINGS

1. **Use auxiliary handle(s), if supplied with the tool.** Loss of control can cause personal injury.
2. **Hold 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.
3. **Always be sure you have a firm footing. Be sure no one is below when using the tool in high locations.**
4. **Hold the tool firmly.**
5. **Keep hands away from rotating parts.**
6. **Do not leave the tool running. Operate the tool only when hand-held.**
7. **Do not touch the drill bit or the workpiece immediately after operation; they may be extremely hot and could burn your skin.**
8. **Some material contains chemicals which may be toxic. Take caution to prevent dust inhalation and skin contact. Follow material supplier safety data.**

SAVE THESE INSTRUCTIONS.

⚠WARNING:
DO NOT let comfort or familiarity with product (gained from repeated use) replace strict adherence to safety rules for the subject product. MISUSE or failure to follow the safety rules stated in this instruction manual may cause serious personal injury.

FUNCTIONAL DESCRIPTION

⚠CAUTION:
- Always be sure that the tool is switched off and unplugged before adjusting or checking function on the tool.

Switch action

Fig.1

⚠CAUTION:
- Before plugging in the tool, always check to see that the switch trigger actuates properly and returns to the "OFF" position when released.

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.
For continuous operation, pull the switch trigger and then push the lock lever upward.
To stop the tool from the locked position, pull the switch trigger fully, then release it.

Reversing switch action

Fig.2
This tool has a reversing switch to change the rotational direction. Move the reversing switch lever to the $\subset$ position (A side) for clockwise (forward) rotation or the $+\subset$ position (B side) for counterclockwise (reverse) rotation.

⚠CAUTION:
- Always check the rotational direction before operation.
- Use the reversing switch only after the tool comes to a complete stop. It will damage the tool to change the rotational direction before the tool stops.

IMPACT BLOCK

Fig.3

CAUTION!
This tools has two function drill $\tilde{\subset}$ and hammer drill $\mathbf{T}$.
Move the block to the $\tilde{\subset}$ position for drill funtion or the $\mathbf{T}$. for hammer drill function.

ASSEMBLY

⚠CAUTION:
- Always be sure that the tool is switched off and unplugged before carrying out any work on the tool.

Installing side grip (auxiliary handle)

Fig.4
Always use the side grip to ensure operating safety. Install the side grip so that the teeth on the grip fit in between the protrusions on the tool barrel.
Then tighten the grip by turning clockwise at the desired position. It may be swung 360° so as to be secured at any position.

Fig.5
To install the bit, place it in the chuck as far as it will go. Tighten the chuck by hand. Place the chuck key in each of the three holes and tighten clockwise. Be sure to tighten all three chuck holes evenly.
To remove the bit, turn the chuck key counterclockwise in just one hole, then loosen the chuck by hand.
After using the chuck key, be sure to return to the original position.

Depth gauge (optional accessory)

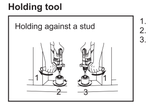
The depth gauge is convenient for drilling holes of uniform depth. Loosen the side grip and insert the depth gauge into the hole in the side grip. Adjust the depth gauge to the desired depth and tighten the side grip.

NOTE:
- The depth gauge cannot be used at the position where the depth gauge strikes against the tool body.

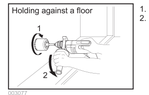
Fig.6

OPERATION

Holding tool



1. Reaction
2. Reverse
3. Forward



1. Forward
2. Reaction

Always use the side grip (auxiliary handle) and firmly hold the tool by side grip and switch handle during operations. When drilling a large hole with a hole saw, etc., the side grip (auxiliary handle) should be used as a brace to maintain safe control of the tool.
Grasp the rear handle and the front grip firmly when starting or stopping the tool, since there is an initial and final reaction.
When drilling action is forward (clockwise), the tool should be braced to prevent a counterclockwise reaction if the bit should bind. When reversing, brace the tool to prevent a clockwise reaction. If the bit must be removed from a partially drilled hole, be sure the tool is properly braced before reversing.

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 center-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.

⚠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 twisting force exerted on the tool/bit at the time of hole breakthrough. 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 vise or similar hold-down device.
- Avoid drilling in material that you suspect contains hidden nails or other things that may cause the bit to bind or break.

MAINTENANCE

⚠CAUTION:
- Always be sure that the tool is switched off and unplugged before attempting to perform inspection or maintenance.
- Never use gasoline, benzine, thinner, alcohol or the like. Discoloration, deformation or cracks may result.

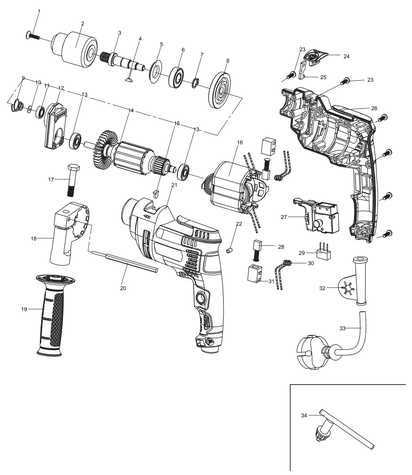
To maintain product SAFETY and RELIABILITY, repairs, carbon brush inspection and replacement, any other maintenance or adjustment should be performed by Makita Authorized Service Centers, always using Makita replacement parts.

OPTIONAL ACCESSORIES

⚠CAUTION:
- These accessories or attachments are recommended for use with your tool specified in this manual. The use of any other accessories or attachments might present a risk of injury to persons. Only use accessory or attachment for its stated purpose.

If you need any assistance for more details regarding these accessories, ask your local Service Center.
- Drill bits
- Hole saws
- Keyless drill chuck
- Chuck key
- Grip assembly
- Depth guage
- Plastic carrying case

NOTE:
- Some items in the list may be included in the tool package as standard accessories. They may differ from country to country.



Impact dril spare part list		
No.	Name	QTY
1	Screw M5x20	1
2	Chuck 13mm	1
3	Output shaft	1
4	Semicircular key 10x3	1
5	Dust ring	1
6	Bearing 6001	1
7	Circlip 12 for shaft	1
8	Big gear	1
9	Taper spring	1
10	Flat pad 8.1x12x0.5	1
11	688 bearing	1
12	Impact bracket ass.	1
13	608 bearing	2
14	Armature	1
15	Wool block	1
16	Stator	1
17	External hexagon bolt M8 × 100	1
18	Bracket	1
19	Auxiliary handle	1
20	Depth guage	1
21	Plastic cover	1
22	Rubber column 4x9	1
23	Screw ST4x16	10
24	Impact block	1
25	Impact iron sheet	1
26	Motor housing	1
27	Switch	1
28	Carbon brush	2
29	Capacitance 0.33μF	1
30	Inductance	1
31	Brush box	2
32	Cable sheath	1
33	power cable	1
34	Key	1

Product Warranty Card

Dear users :
Thank you for buying our products. In order to ensure your profit, users who buy our products can contact local distributor or Specified repair stations with invoice and warranty cards if the product failures due to quality problems.

Warranty Notice:
1.From _____ (Year/Month/Day) to _____ (Year/Month/Day),
If the failure happen in normal use, our company will provide free warranty, parts replacement and other services according to the failure situation.
2.This warranty card and purchase invoice are the voucher of after-sales service provided by our company to customers. The card must be detailed only after filling in the following form and affixing the official seal with the distributor.
3.In one of the following cases, free warranty service will be invalid, and maintenance fees will be required：
（1）Exceed the expiration date；
（2）Failure or damage caused by not following the requirements of the product manual, maintenance or improper storage；
（3）Failure or damage caused by disassembling, repairing or modification of the product without the permission of our company；
（4）Machine breakdown or damage caused by force majeure；
（5）Consumable accessories.
This card is issued with the product. One card for one machine, to ensure that you can fully enjoy the right to free warranty service provided by the company, please keep this card properly, lost will not be replaced.

Purchase Date: _____ (Year/Month/Day)

Product Certificate

Inspector:
01
Date of manufacture：

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Reserved for future use

Version：1.0
Date: June. , 2022