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DIAMOND CORE DRILL USER MANUAL

We continue to be committed to provide you tools with competitive price.

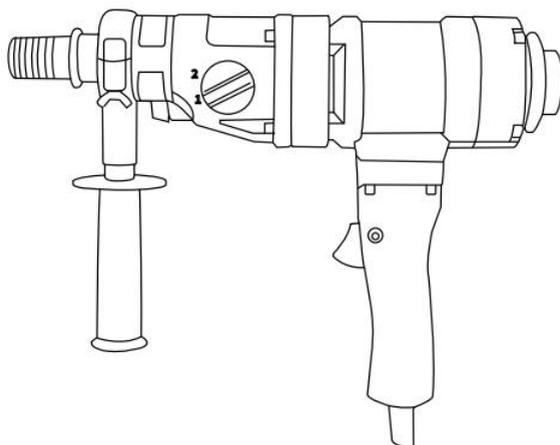
"Save Half", "Half Price" or any other similar expressions used by us only represents an estimate of savings you might benefit from buying certain tools with us compared to the major top brands and does not necessarily mean to cover all categories of tools offered by us. You are kindly reminded to verify carefully when you are placing an order with us if you are actually saving half in comparison with the top major brands.

VEVOR®

TOUGH TOOLS, HALF PRICE

DIAMOND CORE DRILL

MODEL:Z1Z-CF02-80



NEED HELP? CONTACT US!

Have product questions? Need technical support? Please feel free to contact us:

 CustomerService@vevor.com

This is the original instruction, please read all manual instructions carefully before operating. VEVOR reserves a clear interpretation of our user manual. The appearance of the product shall be subject to the product you received. Please forgive us that we won't inform you again if there are any technology or software updates on our product.



The symbols used in this manual are intended to alert you of the possible risks. Please fully read the safety signs and instructions below.

The warning themselves do not prevent the risks and can not be a substitute for proper methods of avoiding accidents.



This symbol, placed before a safety comment, indicates a kind of precaution, warning, or danger. Ignoring this warning may lead to an accident. To reduce the risk of injury, fire, or electrocution, please always follow the recommendations shown below.



WARNING- To reduce the risk of injury, users must read the instruction manual carefully.

Please refer to the appropriate section in this user manual before any operation.



Warning- Be sure to wear eye protectors when using this product.



WARNING- Be sure to wear dust masks when using this product.



Warning- Be sure to wear ear protectors when using this product.



This product is subject to the provision of European Directive 2012/19/EC. The symbol showing a crossed-out wheeled bin indicates that the product requires separate refuse collection in the European Union. This symbol applies to the product and all accessories marked with this symbol. Products marked as such may not be discarded with normal domestic waste, but must be taken to a collection point for recycling electrical and electronic devices.



This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:(1) This device may not cause harmful interference,and (2) this device must accept any interference received, including interference that may cause undesired operation.



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

1. 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.

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

1) 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.

2) 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 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.

3) 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 energizing power tools with 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, clothing and gloves 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.

4) 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. A power tool that cannot be controlled with the switch is dangerous and must be repaired

c) Disconnect the plus from the power source and/or the battery pack 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. 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. Poorly maintained power tools cause many accidents.

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.

5) 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.

2. Diamond Core Drill Safety Warnings

1. Use auxiliary handles supplied with the tool. Loss of control can cause personal injury.

2. Consider work area environment: Don't use diamond core drill in damp or wet

locations. Don't expose the diamond core drill to rain. Keep the work area well-lit. In particular, no flammable liquids or gases must be present. The series motor produces sparks during regular rotation. The sparks may cause the risk of fire.

3. Grounding of class I tools is necessary while in use to protect you from electric shock. Class I tools are equipped with an approved three-conductor cord and three-prong grounding-type plug. The green/yellow conductor in the cord is the grounding wire, one end of wire is in the grounding sign of outer tool shell, the other end of wire is connected with the ground wire of plug. Never connect the green/yellow wire to a live terminal.

4.  Warning! The socket **must be fitted** with grounding, don't insert class I tools into the socket without grounding.

5. Use extension cords when tool is used outdoors or indoors. Use special extension wire board. Use only three-conductor cord and with reliable grounding.

6. Take care of the downward direction in the high position, safety belt and safety cap, etc., are recommended.

7. In order to avoid unintentional electric shock, please check the grounding condition of electrified body in working area before operating, it is not allowed to operate the tool under the uncertain condition, once the drill bit touched the electrified body in the wall floor board or baseboard, the electrified outer shell of drill may cause personal injuries.

8. The safety equipment is recommended when drilling on high the ceiling to avoid the drill core injuring the persons downstairs or damaging the property downstairs.

9. Connecting the soft pipe with the inner diameter $\Phi 16\text{mm}$ to the adaptor of the valve.

10. Please ensure that there is no water leak so that it will not dampen the motor

when you use the liquid and the attachments.

11. Usually inspect the hoses and other critical parts of the tool which could deteriorate; When a water leak appears from the testing hole of the gearbox, you must turn off the tool immediately and then replace the rubber seal.

12. The maximum permitted pressure of the liquid supply is 0.12MPa;

13.  Warning! Never use the tool without the RCD provided;

14. You have to test the correct operation of the RCD before starting work: the red light will be on after pressing the button "RESET": and the light will be off after pressing the button "TEST"; you can only operate the tool when the RCD can work correctly.

15. Replacement of the plug or the supply cord shall always be carried out by the manufacturer of the tool or his service organization:

16. Keep liquid clear off the parts of the tool and away from persons in the working area in order that the water can not enter into the electronic equipment of the tool and keep your safety. It must be use catchment set when the machine working with elevation.

3. HANDLING INSTRUCTIONS

1. How to install the drill

Before operating, fix the base on the work piece reliably and tightly, fasten it with expansion bolts, then fastening 4 bolts on the base uniformly, in the end tightening them with the nuts.

2. Check the voltage:

Make sure the voltage is the same as that indicated on the board of the tools the voltage in the circuits should be kept at +/-5%.

3. How to install bit:

Be careful when installing a thin diamond drill bit. The end thread should be matched with the end output shaft. Grease the end thread, tighten the bit, and leave it idly run to ensure that its radial motion meets the general requirements before operating the bit.

4. Leave some water in the water switch of drill.

5. To open or drill a hole:

Start the bit in the no-load state. After starting, release the feed value and start drilling when you see the bit water.

When drilling a bore with the portable drill, put the drill to a certain inclined angle firstly (See fig.1,fig.2), drill a crescent-shape notch on the surface of concrete, then holding the drill vertically, if the drill swayed, the drill bit may be damaged. You should drill slowly and uniformly, don't force the tools, you can increase thrust when the drill bit has been drilled into the work piece about 5mm depth. During drilling, if the rotary speed of motor reduced obviously, that means it has an excessive load, please reduce its feed pressure properly to keep its rotary speed can be in an ideal location, if the motor emits fume or peculiar smell, please shut off the drill at once, the work will have to wait to avoid the motor overloading and the coil burned down. The clutch on the output shaft may be skidded, the RCD jumped and the motor stopped if the drill forces into the reinforcing steel bar, these improper operation methods, which will reduce the life of drill bit and damage the motor.



Fig.1 —————



Fig.2 —————

6.Material:

When drilling on the reinforced concrete, if the drill bit touches the steel bar, the current will suddenly increase, the motor will vibrate, and the bit will be overloaded. At this time, the drill thrust should be reduced properly. The low current will have an adverse effect on the bit speed and the bit. If the gravel falls into the drill or the drill touches the steel bar, the drill can get stuck, causing high current and clutch slip. At this point, close the tool, remove the bit, and clean the chip notch. Wait 3 minutes for the bit to cool and then restart the switch to continue drilling. If the clutch continues to slip, please stop drilling and re-tighten the clutch.

7. Remove drill core:

When the drill bit almost drills through the floorboard or wall etc materials be careful in reducing its drill speed to avoid drilling forcibly. When drilling

again, please shut off the tool, remove the drill bit and clean its wall with water, after cleaning the chip, beat the drill slightly with the wood stick, be careful in removing the drill core and damaging the drill bit, then installing the drilling to continue operating.

8. Keep the motor ventilated and cool down:

During operating the ventilated notch of motor should not be clogged with dirt to avoid the higher temperature affecting the life of motor or burning down the winding.

9. Waterless operation is forbidden:

When operation, there should be plenty of water flow onto the surface of the drill bit to cool down. The mud can be washed out to avoid damaging the drill bit and sealing washer.

10. Avoid dampening the motor:

Do keep the enclosure of the motor away from the water to avoid reducing its insulating performance or leaking electricity. Only use the machine with the direction of vertical downward!

11. Drill vibrated

The gap between the elevating body and square pipe and rack increased may cause the drill vibration. At this time, please shut off the tool, adjust the track lining or idle wheel on elevating body, and tighten some relative bolts to adjust it to proper gap.

10. When adjusting the speed, you must stop the machine before turning the knob. It is not allowed to turn the knob when the machine is working, otherwise the gear may be damaged.

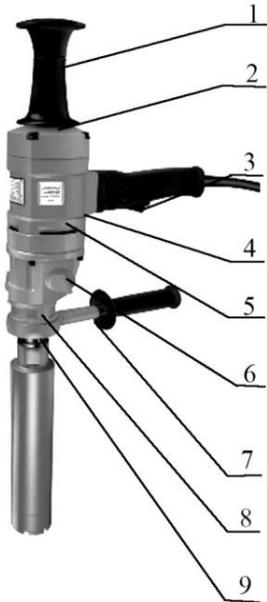
4. STRUCTURE, FEATURE AND USAGE

This tool is a portable diamond core drill with two speeds. The speed can be

adjusted by turning the knob. High gear is suitable for the diamond drill bit of 20-52 diameters. Low gear is suitable for the diamond drill bit of 52-78 diameters. It is also equipped with safety friction clutch which is easy, safe, and reliable to use. Using the diamond thin-wall drill bit produced by our company, this equipment can drill a full range of reinforced concrete, brick, and other materials, with no dust, no vibration, high precision, fast drilling speed and other advantages. Widely used in construction, pipeline installation, road, bridge and engineering quality control, sampling and other fields.

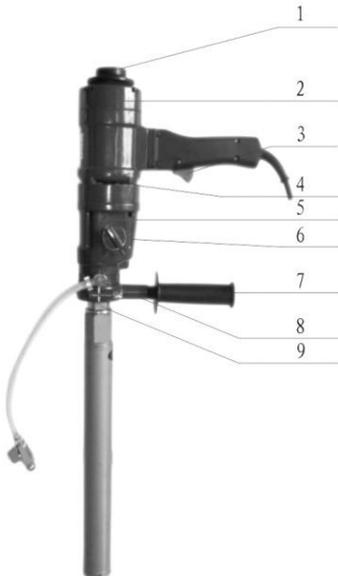
See fig.3 shows the main parts structure.

Fig.3 Z1Z-CF02-80



1. Top shaft shoulder
2. Rear cover
3. Switch
4. Single phase series motor
5. Reducer casing
6. Adjustable speed knob
7. Assistant handle
8. Feed water device
9. Output shaft

Fig.3ZIZ-CF06-80



- 1.Rear cover
- 2.rear cover
- 3.Swith
- 4.Single phase series moton
- 5.reducer casing
- 6.Adjustable speed knob
- 7.Assistant handle
- 8.Feed water device
- 9.output shaft

5. MAINTTECHNICAL PARAMETER

Type	Z1Z-CF02-80		
Style	Portablestyle		
Rated voltage	220-240V~ For EU	220-240V~ For AUS	120V~ For US
Rated frequency	50 Hz	50 Hz	60 Hz
Rated input power	1500 W	1500 W	1500 W
No – load speed	950/2100/rpm	950/2100/rpm	1100/2400/rpm
Max. Drilling Dia	Slow: Φ 102mm Fast: Φ 80mm		

6. MAINTENANE

1)If the drill has any troubles. please send it to an authorized service center It is not strictly allowed to dismantle or replace the parts optionally.

2)Please check the electric brush and commutator periodically. When the brush is worn about 7mm, it must be replaced. Only use the original, otherwise the commutator may be damaged and both brushes must be replaced at the same time. If you find serious sparks or serious wear and burn of the commutator during operation, please check and repair the commutator or replace a new rotor.

3)The drill should be checked and repaired periodically after used for a long time. Items to be checked include:: whether the electrical wire is good or not.the grounding is reliable or not, the inner wire, switch and plug works well or not, the insulating resistance of motor is safe or not. the stator and rotor are in short circuit or not,the bolts are loosened or not, please replace the lubricating oil and wearing parts etc.

4)Replace the rubber sealing washer in time. If water is found flowing in from the

top of the bit after prolonged use, check and replace the seal gasket immediately. The gear in the gear case can use lubricating oil, if you find some lubricating oil penetrate the mid-cover air port, please replace the rubber sealing sealing oil ring on the rotor spindle. The brand of special lubricating oil is 110# industrial gear oil. It is not allowed to use common engine oil.

5) Keep the drill clean and dry. If not in use, please clean the drill and keep it in a dry and clean place. When removing a drill bit, apply grease to the drill bit's spindle and the drill thread's connection to protect it.

6) Adjust safety clutch (When you find the friction of clutch become too small.)

7. SOLUTION TO THE PROBLEMS DURING USING

Problems	Possible Reasons	Solution
Motor doesn't run when connecting power supply	1.Power supply disconnected 2.Switch breaker positioned 3.Brush ill contacting or running out 4.The winding of stator or rotor circuit	1.Check and connect power supply 2.Check and repair switch or replace improperly or ill Contacting switch 3.Replace electric brush 4.Check or replace stator & rotor open circuit
Heavy sparks and ring sparks occur on commutator of motor	1.Rotor winding is on short circuit or open circuit 2.Brush spring positioned improperly or ill contacting	1.Repair or replace rotor. 2.Adjust the spring pressure 3.Replace a new

	3.Commutator worn seriously	
Drill vibrated	<ol style="list-style-type: none"> 1.The base fixed loosened 2.The gap between elevating body and square rack largened 3.Elevating body and connecting bolts loosened 	<ol style="list-style-type: none"> 1.Reassemble and fix the frame 2.Adjust the gap 3.Check
Drill speed is slow	<ol style="list-style-type: none"> 1.Drill bit worn 2.Ceiling pouring quality is bad, there are grits or chips in gap 3.Drill vibrated 4.The nuts on the safety friction 	<ol style="list-style-type: none"> 1.Repair or replace drill bit 2.Stop the drill, remove the foreign materials from gap 3.Adjust and tighten connecting bolt. 4.Tightening nuts clutch loosened

8. STANDARD ACCESSORY

- | | |
|------------------------------|----------|
| 1.Electric brush | 2 pieces |
| 2.Inner hexagon spanner | 1 pieces |
| 3.4-inch Drill bit | 1 pieces |
| 4.Removable shoulder support | 1 pieces |
| 5.Blow molding box | 1 pieces |
| 6.User manual | 1 pieces |

No.	Symbol	Name	No.	Symbol	Name
1	02-80/001	Output shaft	22	HK1210	Quill bearing
2	Φ4	Steel ball	23	Φ78x2	O-shape sealing ring
3	02-80/050	Small spring	24	02-80/014	Mid-cover
4	5x34x5	Flat key	25	HK1010	Quill bearing
5	Φ47x1.5	Spring shield ring for holes	26	02-80/040	Spacer
6	186005R	Ball bearing	27	02-80/011	Round nut
7	02-80/041	Shim cover	28	02-80/010	Pressing ring
8	FB25x40x7	Bracket rubber sealing ring	29	02-80/008	Friction shim
9	FB20x35x7	Bracket rubber sealing ring	30	02-80/003	2 # gear
10	02-80/002	Reducer casing	31	02-80/007	Cooper cover
11	02-80/012	Adjustable speed knob	32	02-80/008	Friction shim
12	Φ5x16	Round pin	33	02-80/010	Press ring
13	Φ5	Spring washer	34	02-80/009	Dishing spring
14	M5x12	Inner hexagonal round head bolt	35	02-80/004	3# gear shaft
15		O-shape sealing ring	36	8629Z	Ball bearing
16	02-80/013	Adjustable speed knob	37	Φ5	Spring washer
17	02-80/006	6# gear	38	M5x55	Inner hexagonal round head bolt
18	02-80/006-1	Copper lining	39	02-80/043	Water switch
19	Φ18x1.6	Shield ring for shaft	40	02-80/045	Assistant handle cover
20	02-80/005	4# gear	41	Φ5	Spring washer
21	Φ18x1	Shield ring for shaft	42	M5	Butterfly bolt

No.	Symbol	Name	No.	Symbol	Name
43	02-80/045	Assistant handle	64	186201R	Ball bearing
44	M5x40	Inner hexagonal round head bolt	65	02-80/053	Oil sealing base shim
45	Φ5	Spring washer	66	02-80/037	Sealing oil ring
46	02-80/016	Rear cover	67	02-80/018	Rear handle
47	02-80/024	Rear cover jacket	68	02-80/017	Rear handle base
48	02-80/028	Coil spring	69	Φ30x2	O-shape sealing ring
49	M3x6	Crossed slot bolt	70	M4	Hexagonal nut
50	02-80/047	Electric brush	71	Φ4	Spring washer
51	02-80/025	Brush holder base plate assembly	72	ST3.8x19	Crossed slot tapping bolt
52	02-80/034	Trademark	73	02-80/019	Left handle cover
53	02-80/033	Name brand	74		Switch
54	02-80/015	Shell of drill	75	ST4.8x13	Crossed slot tapping bolt
55	02-80/023	Insulating shim	76	02-80/051	Level pole
56	02-80/022	Stator insulating cover	77	02-80/029	Cable press board
57	02-80/201	Stator assembly	78	02-80/020	Right handle cover
58	M4x102	Inner hexagonal round head bolt	79	02-80/039	Handle pad
59	02-80/035	Shield board	80	M5x25	Inner hexagonal round head bolt
60	186200R	Ball bearing	81	1.25mm ² x3c	Lead & Plug
61	02-80/052	Armature rear insulating cover	82	02-80/031	Jacket
62	02-80/101	Armature assembly	83	02-80/038	Rear supporting cover (bracket shape use)
63	02-80/112	Fan	84	export use	Soft starting circuit module

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