

DIAMOND CORE DRILLS



MAINTENANCE MANUAL

DB-132

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(Rev.20230517-A1.0)

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LIMITED WARRANTY

1. Warranty coverage and period

1.1 The length of warranty is 12 months from date of original purchase.

1.2 Gearbox, motor housing, gears, drill spindle etc. All of these damaged parts should not be caused by user.

1.3 Rotor-stator, printed circuit board, bearings, oil seals etc. All these normal wear parts are not covered.

2. This limited warranty does not include the following

2.1 Product purchased date beyond the warranty period.

2.2 Product with no specific warranty card or valid invoice.

2.3 Operating methods other than those indicated in the Instruction Manual.

2.4 Product manufactured neither by group nor authorized manufacturers.

2.5 Unauthorized alteration.

2.6 Damage caused by force majeure factors such as earthquakes, typhoons, floods and fires.

2.7 Natural wear and tear (natural fading of painted or plated surfaces, sheet peeling and other natural deterioration).

2.8 Exposure of product to chemical agents or other corrosive environments.

2.9 Model listed on invoice or on product selling information doesn't match with the actual product, or product with defaced or altered serial number.

2.10 Warranty coverage and period.

2.11 Product purchased thru illegal distribution channel.

MAINTENANCE

 Warning!

All repair works and maintenance must be carried out with the mains switched off and the plug disconnected.

1. Daily Maintenance of Power Tool (Please ref. to Maintenance Schedule)

1.1 Check if all bolts, screws and nuts are well tightened.

1.2 Check if there is a leakage inside of the gearbox.

1.3 Keep the whole set of machine clean and dry.

1.4 Check gearbox lubricating grease condition after gearbox reaches 200 working hours. If the old grease in the gearbox are too dirty and messy when compared to the new grease, have the old one replaced immediately by a specialist or authorized repair station. Recommended grease: SHELL GADUS S2 U460L 2, re-lubrication amount of grease: 35 Grams.

1.5 When not in use, please detach its drill bit first, and then clean the whole machine. Don't forget to grease on its spindle thread. Store the idle power tool out of reach of children and must in a dry environment.

1.6 Measuring the insulation resistance. Use a 500V ohmmeter to measure the insulation resistance between live parts and the housing. The value must not be less than 7 MΩ.

2. Trouble Shooting of Power Tool (please ref. to Trouble Shooting Chart)

2.1 If the power tool malfunctions while operating, please contact nearby repair station immediately. Do not disassemble the power tool by yourself.

2.2 As for electrical parts such as rotor-stator, circuit board, power cord and plugs etc., let them checked and repaired by an electrical specialist.

MAINTENANCE SCHEDULE

Maintenance Items (Things need to check)	Every time before use	The first month or after 25 working hours	The third month or after reaches 50 working hours	Every year or after reaches 200 working hours
Gearbox seals leakage	√	√	√	√
Power cord	√	√	√	√
Drill spindle rotating	√	√	√	√
Drill spindle abrasion	-	-	√	√
Mains switch functioning	√	√	√	√
Spindle thread greasing	√	√	√	√
Bolts and nuts	√	√	√	√
Gearbox oil	-	-	-	√
Overall cleaning	-	√	√	√

TROUBLE SHOOTING

Fault	Possible Cause	Solution
Drill motor doesn't work	1.Mains power supply interrupted or plug is loose 2.Power cord or switch damaged 3.Rotor-stator damaged	1.Plug in another electric appliance and check the functioning or tighten the plug; 2.Have them checked by an electrical specialist and replaced if necessary. 3.Have them checked by an electrical specialist and replaced if necessary.
Drill bit sticking or stuck	1. Gears are not engaged properly or disengaged. 2. Clutch worn-out 3. Reinforced steel or particular matter causes the drill bit sticking or stuck. 4.Gearbox damaged	1. Gear selector is not lock when turning it. Turn it to desired position until it locks. 2. Have clutch friction plates replaced. 3. After switching off the machine, use wrench to adjust the bit's position a little bit. Knock carefully and gently on the tube by using a wooden hammer shank till the stuck drilling core slips out. 4. Have gearbox replaced by a specialist

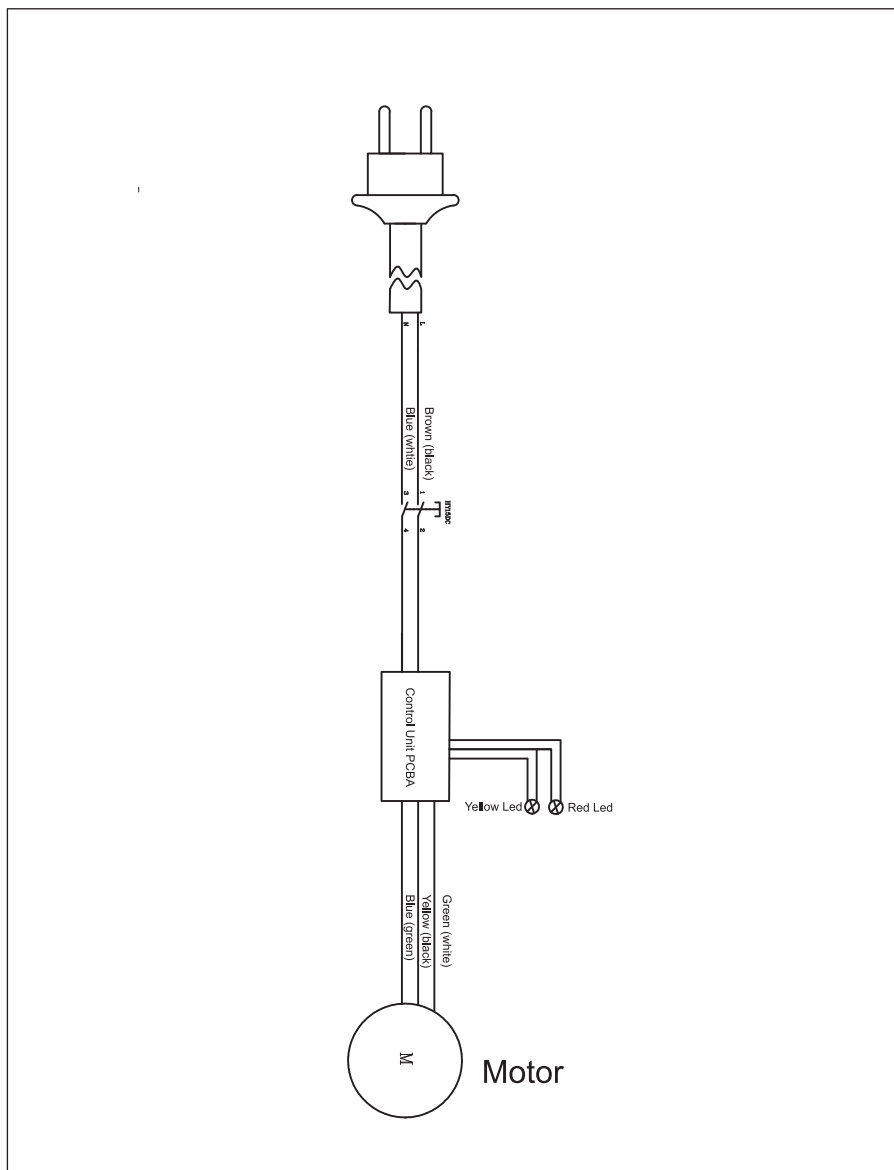
TROUBLE SHOOTING

Fault	Possible Cause	Solution
Drilling speed is way too slow	1.End of drill bit's lifetime or segments are not in good condition 2.Drill bit is dull. 3.Hits the reinforced bar or too many hard impurities. 4.Drill bit's bond matrix deforms.	1.Check the drill bit and segments and replace them if necessary. 2.Resharpen the segments. 3.Reduce the pressure on the drill bit to cut through reinforced bar. Increase again when cut through. 4.Adjust the cutting direction, make the drill bit perpendicular to the cutting surface.
Drill spindle wobbles	Drill spindle worn-out	Check if spindle is worn-out and replace it if necessary

*Please note, all repair works must be carried out by a specialist or in an authorized repair station!

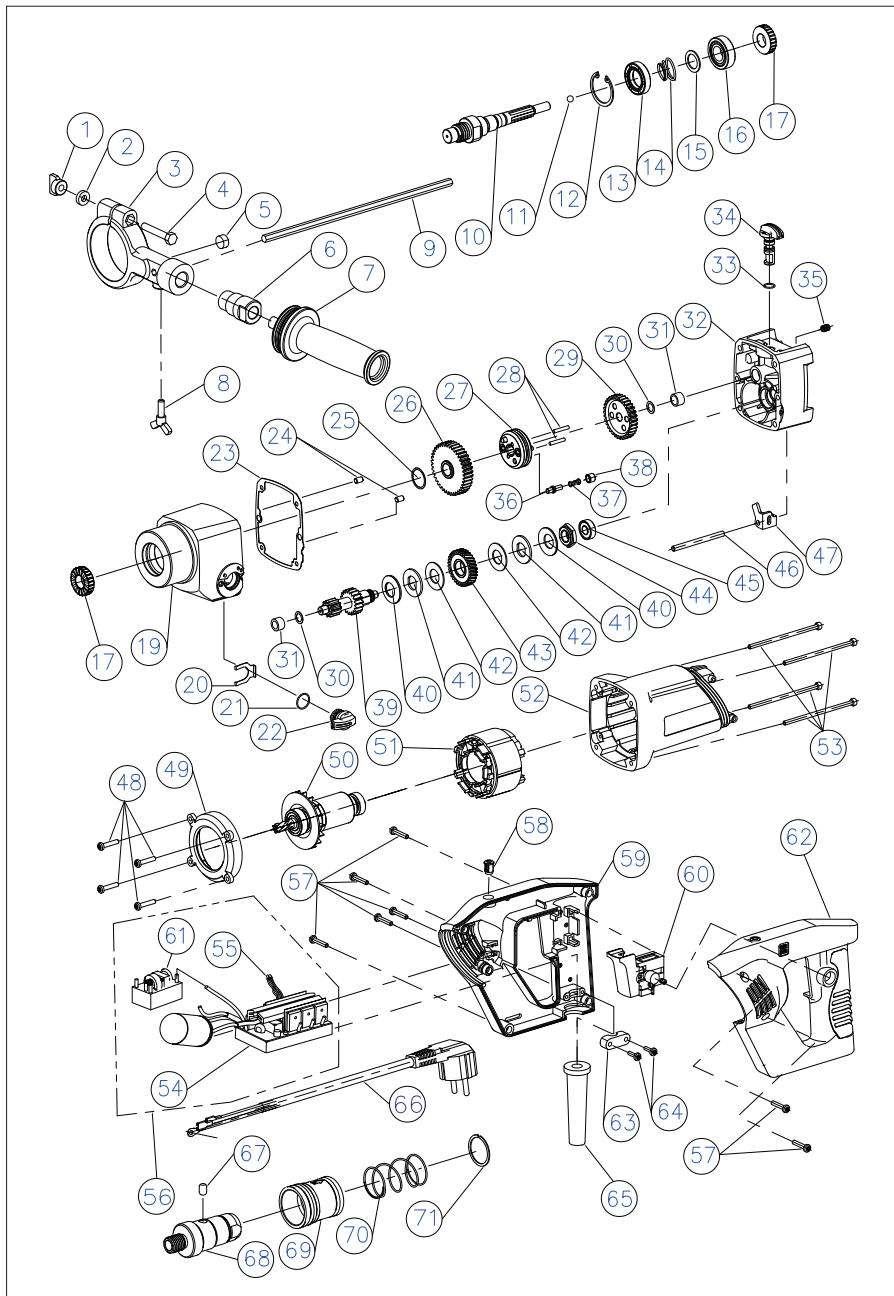
WIRING DIAGRAM

Model: DB-132



EXPLODED VIEW

Model: DB-132



PARTS LIST

Model: DB-132

No.	Parts Name	Qty	No.	Parts Name	Qty
1	T-knob nut M6, plastic	1	40	Disk spring	2
2	Flat washer 12x6.2x4	1	41	Clutch disk	2
3	Front grip clamp bracket	1	42	Copper friction disk	2
4	Hex head cap bolt M6x45	1	43	Helical gear M1-Z32	1
5	Bubble level Φ12	1	44	Hex nut M12xP1.0 T=5mm	1
6	Front grip connecting rod	1	45	Deep groove ball bearing 607Z	1
7	Front grip, plastic	1	46	Dowel pin Φ5x60	1
8	Wing screw M6x16	1	47	Gearshift lever	1
9	Depth gauge measuring rod	1	48	Cross recessed round head self tapping screw M4x20	4
10	Spindle shaft M18	1	49	Wind deflector	1
11	Steel ball 15/64" (Φ5.9531)	1	50	Brushless motor rotor assy. W6330 (bearing incl.)	1
12	Internal circlip Φ32	1	51	Brushless motor stator assy. W6330 230V (Φ63mm)	1
13	Skeleton oil seal TC 19x32x9	1	51	Brushless motor stator assy. W6330 120V (Φ63mm)	1
14	Micro-percussion spring (Φ18.2-Φ23.2x12x1.4)	1	52	Motor housing	1
15	Ultra thin flat washer M15x24x1.0	1	53	Hex head cap screw M4x65	4
16	Deep groove ball bearing 6002V	1	54	Control board 230V	1
17	Ratchet wheel Z16	2		Control board 120V	1
19	Gearbox housing	1	55	LED cable YELLOW/RED	1
20	Gear selector flat spring	1	56	controller unit 230V	1
21	O-ring (Φ16xΦ1)	1		controller unit 120V	1
22	Gear selector	1	57	Cross recessed round head tapping screw M4x16	7
23	Paper gasket	1	58	LED socket	2
24	Dowel pin Φ5x8	2	59	D-shaped handle, right cover	1
25	Ultra thin flat washer M18x25x0.3	1	60	Trigger switch	1
26	Gear M1.25-Z40	1	61	EMC board 230V	1
27	Drive plate	1		EMC board 120V	1
28	Dowel pin Φ3x20	2	62	D-shaped handle, left cover	1
29	Gear M1.25-Z33	1	63	Cable clamp	1
30	Ultra thin flat washer M8x12x0.3	2	64	Cross recessed pan head flat tail self tapping screw M3.5x12	2
31	Drawn cup needle bearing HK0808	2	65	Power cord gland	1
32	Gear cover plate	1	66	Power plug 230V	1
33	O-ring (Φ8xΦ1.2)	1		Power plug 120V	1
34	Function mode selector	1	67	Capsule-shaped pin	1
35	Socket set screw M6x10	1	68	M18-M16 Adapter	1
36	Drive plate pin	4	69	Adapter outer case	1
37	Drive plate spring (Φ5.9*Φ0.6*11)	4	70	Adapter spring	1
38	Drive plate pin sleeve	4	71	Bearing stop ring M28	1
39	Pinion shaft M1.25/Z11-M1.25/Z18	1			

PRODUCT REGISTRATION

Product Registration

As for technical data, please refer to the name plate on the machine.

- 1.Fill in the blanks with Product Model, Serial No., and Date of Purchase
- 2.Fill in the blanks with Parts Name and No., Spec. if purchasing spare parts
- 3.Fill in the blanks with details when consulting technical issues

Product Model: _____

Serial No.: _____

Date of Purchase: _____

Parts Name & No.: _____

Spec.: _____

Technical Issue: _____

Defective Component: _____

Sales or Distributor Info: _____



WARRANTY CARD

Date of Maintenance: _____

Usage Time: _____

Fault: _____

Solution and Result: _____

Return and/or Exchange Info: _____

Engineer Signature and Date: _____

User Signature and Date: _____

