ECHNICAL INFORMATION

Models No.

▶ GD0800C / GD0810C

Description > Die Grinder (High speed type / Low speed type)

CONCEPTION AND MAIN APPLICATIONS

Ideal for professional's heavy duty work. Rugged, but slim aluminum gear housing is convenient especially for debarring difficult-to-reach spots of material. Thanks to dial speed control, an optimum speed can be set for grinding/cutting hard/soft materials, and the speed is maintained under load. Also features our new "Super Joint System-SJS" for more durability of collet and coupling. Model GD0800C features High-speed, and Model GD0810C features Low-speed.



Dimensions : mm (")					
Model No.	GD0800C	GD0810C			
Width (W)	75 (2-15/16)	75 (2-15/16)			
Height (H)	75 (2-15/16)	75 (2-15/16)			
Length (L)	371 (14-5/8)	371 (14-5/8)			

► Specification

Voltage (V)	Current (A)	Cycle (Hz)	Continuous Rating (W)		Max_Output(W)
			Input	Output	
110	7.2	50 / 60	750	480	900
120	6.6	50 / 60	750	480	900
220	3.6	50 / 60	750	480	900
230	3.4	50 / 60	750	480	900
240	3.3	50 / 60	750	480	900

		GD0800C	GD0810C	
Continuous rating Input (W)		750	750	
No load speed (min-1= rpm)		7,000 -28,000	1,800 - 7,000	
Collet size		3mm 6mm 8mm 1/8" 1/4"		
Max. diameter of wheel point		25mm (1")	50mm (2")	
Dial speed control		Yes	Yes	
Electronic features for	Constant speed	Yes	Yes	
	Soft start	Yes	Yes	
Cord length : m (ft)		2.5 (8.2)	2.5 (8.2)	
Net weight (kg)		1.6 (3.5lbs)	1.7 (3.7lbs)	

► Standard equipment

- * Wrench 13 1 pc.
- * Wrench 19 1 pc.
- * Collet cone 6 or Collet cone 1/4"..... 1 pc.

< Note > The standard equipment for the tool shown may differ from country to country.

Optional accessories

- * Vise holder set
- * Side grip
- * Collet cone 3 * Collet cone 6
- * Collet cone 1/4"
- * Collet cone 1/8"
- * Collet cone 8

<u>nakita</u> PRODUCT P1/9

► Repair

< 1 > Lubrication

MAKITA grease N. No.2 (0420054) has to be used for maintenance of Model GD0800C and GD0810C. Apply the grease to the following parts.

- (1) The lip of oil seal 16 to be assembled to the inner part of bearing retainer.
- (2) Teeth part inside of coupling: approx. by 1 g. (only for Model GD0800C)
- (3) Inner part of gear cover : approx. by 5 g. (only for Model GD0810C)
- (4) Helical gear 25 (only for Model GD0810C)



< 2 > Repairing armature

<2-1> Removing

- (1) Remove rear cover by unscrewing tapping screw 4x25 (1 pc.). And then, take off carbon brushes.
- (2) Remove barrel from motor housing by unscrewing tapping screw 4x25 (4 pcs.). And then, take off armature together with bearing box.



(3) Take off retaining ring S-12 from armature shaft. And then, remove armature from bearing box by pressing.





(1) Assemble insulation washer, flat washer 7, ball bearing 627DDW, labyrinth rubber ring, magnet sleeve and stop ring E-4 to armature shaft on commutator side. See Fig.3A.



< Note > Do not use the removed stop ring E-4 again. Replace with new one, when it is necessary to be removed.

(2) Set ball bearing 6001LLB into bearing box. And then, install retaining ring R-28 to bearing box to hold the ball bearing. See Fig.3B.



(3)Install flat washer 12 to armature shaft. And then, install the armature to bearing box, by pressing. See Fig.3C.

(4)Install retaining ring S-12 to armature shaft. See Fig.3C.



< 3 > Repairing barrel

<3-1> Removing

(1) Remove collet nut with wrench 19 locking spindle with wrench 13.



► Repair

- (3) Hold the flat part on spindle with wrench 13 and
 - unscrew pan head screw M4x8 which is installed in the inner part of coupling.
 - < Note > The bond is applied on the threaded part of pan head screw M4x8.
- (4) Screw hex bolt M4x50 into the same hole on spindle where the above pan head screw M4x8 is used. And then, remove the spindle by pressing with arbor press. So spindle will be removed together with ball bearing 6901LLB, from barrel.



<3-2>Assembling

(1) Assemble ball bearing 6901LLB and 2 pcs. of retaining S -12 to spindle as illustrated in Fig. 6.



(2) Put ball bearing 6001LLB and retaining R -28 into barrel as illustrated in Fig. 7.



(3) Supporting the inner ring of ball bearing 6001LLB with a cylindric jig, install spindle by pressing through ball bearing 6001LLB as illustrated in Fig. 8. And then, install bearing retainer on barrel as illustrated in Fig. 8A. The fastening torque for bearing retainer is 11.8Nm - 15.7Nm (120Kgf.cm - 160Kgf.cm)



► Repair

(4) Model GD0800C

Install lock spring 12 on coupling. And then, attach the coupling to spindle by pressing with arbor press as illustrated in Fig. 9.

(4A) Model GD0810C

Install lock spring 12 on helical gear 25. And then, attach the helical gear 25 to spindle by pressing with arbor press as illustrated in Fig. 9.



other than No.265082-1.

(5) And then, fix spindle and coupling (helical gear 25) with pan head screw M4x8 (265082-1) of which threaded part is coated with bond.





< Note > The orange wire connecting controller with brush holder is not used in some country. * The numbers, SB1, SB2, SB3 and SB4 are indicated on the switch block.





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Fig. 12

For Model GD0800C and GD08710C

so that they are not slacken.





► Wiring diagram



Fig.14