ECHNICAL INFORMATION

Model No. Description

▶ BGD800 (LXDG01)*1, BGD801

Description) Cordless Die Grinder

*1 Model number for North and Central American countries

CONCEPT AND MAIN APPLICATIONS

Models BGD800 (LXDG01)*1 and BGD801 are Cordless die grinders powered by 18V/3.0A Li-ion battery BL1830, featuring the same easy-to-grip slim motor housing as used for Model BGA402 Cordless angle grinder.

BGD800 is a long-nose die grinder using the mechanical section of Model GD601 while BGD801 is a short-nose type using that of Model GD602.

Note: These models are not compatible with 1.3Ah Li-ion battery BL1815.

These new products are available in the following variations.

BGD800 (LXDG01)*1

Model No.	Bat Type	tery Quantity	Battery cover	Charger	Plastic carrying case
BGD800Z (LXDG01Z)*1					
BGD800RFE (LXDG01)*1	BL1830	2	1	DC18RA	Yes
DCD004					



PRODUCT

Dimensions: mm (")			
	BGD800 BGD801		
Length (L)	402 (15-3/4)	307 (12-1/8)	
Width (W)	82 (3-1/4)		
Height (H)	118 (4-5/8)		

BGD801

DGD001						
Model No.	Battery		Battery cover Charger	Charger	Plastic carrying case	
	Type	Quantity	cover	_	callying case	
BGD801Z						
BGD801RFE	BL1830	2	1	DC18RA	Yes	
	•					

All models also include the accessories listed below in "Standard equipment".

► Specification

Specification Model		BGD800	BGD801		
Battery	Cell		Li-ion		
	Voltage: V		18		
	Capacity: Ah		3.0		
	Charging time (approx.): min.		22 with DC18RA		
Max output: W			350		
No load speed: min-1=rpm			25,000		
Collet size: mm (")		Supplied with the tool	6* 2 (1/4)		
		Option	3, 6, 8 (1/8, 1/4)		
Max collet capacity: mm (")			8 (1/4)*3		
Max wheel diameter: mm (")		38 (1-1/2)			
Weight according to EPTA-Procedure 01/2003*4: kg (lbs)		2.0 (4.4)	1.7 (3.8)		

*2: The tools for India additionally includes 8mm collet cone.

***3:** 1/4" is the Max. collet capacity in inch for North American countries.

(Collet cone of inch size corresponding to 8mm is not available for these models.)
 *4: with battery, collet cone and collet nut

Standard equipment

 Wrench 13
 2

 Collect cone 6mm or 1/4"
 1

 Collect cone 8mm
 1 (for India)

Note: The standard equipment shown above may vary by country.

Optional accessories

Collet cones (3mm, 6mm, 8mm, 1/8", 1/4") Side grip Wheel points Battery BL1830

Fast charger DC18RA Charger DC18SD Charger DC24SC Automotive charger DC18SE

► Repair

CAUTION: Repair the machine in accordance with "Instruction manual" or "Safety instructions".

[1] NECESSARY REPAIRING TOOLS

Code No.	Description	Use for
1R279	Round bar for arbor 5-50	removing Armature
1R291	Retaining ring S and R pliers	removing Retaining rings S-9 and S-12
1R350	Ring 60	holding Bearing box complete when removing Armature
1R382	Armature positioning jig	positioning Armature at the precise position when mounting it to Bearing box complete
	Hex socket bit 17	fixing Coupling when removing it from Spindle
	Wrench 13	removing Spindle from Coupling

[2] LUBRICATION

Apply lubricant as instructed in the table below.



[3] DISASSEMBLY/ASSEMBLY [3]-1. Coupling, Spindle

DISASSEMBLING

- (1) Remove Collet cone and Collet sleeve from Spindle.
- (2) Remove Insulation cover from Barrel section. Separate Barrel section from Housing, then disassemble Barrel section using vise. (Fig.2)



► Repair

[3] DISASSEMBLY/ASSEMBLY

[3]-1. Coupling, Spindle

DISASSEMBLING

(2) Remove Coupling from Spindle, then separate Spindle from Barrel complete. (Figs. 3, 4)

Fig. 3











ASSEMBLING

Do the reverse of the disassembling steps.

► Repair

[3] DISASSEMBLY/ASSEMBLY [3]-2. Armature

DISASSEMBLING

(1) Remove Barrel section. (Fig. 2)

(2) Disassemble Armature. (Fig. 6)

Fig. 6



(3) Separate Armature from Gear housing cover. (Fig. 7)



► Repair

[3] DISASSEMBLY/ASSEMBLY

[3]-2. Armature

ASSEMBLING

(1) Assemble Coupling to Ball bearing 629LLB by fitting Retaining ring S-9. (Fig. 7)

(2) Assemble Armature to Gear housing cover. (Fig. 8)







BGD0801

► Repair

CAUTION: Repair the machine in accordance with "Instruction manual" or "Safety instructions".

[1] NECESSARY REPAIRING TOOLS

Code No.	Description	Use for
1R005	Retaining ring pliers RT-2N	removing Retaining ring R-32
1R279	Round bar for arbor 5-50	removing Armature
1R291	Retaining ring S and R pliers	removing Retaining ring S-15
1R350	Ring 60	holding Bearing box complete when removing Armature
1R383	Armature positioning jig	positioning Armature at the precise position when mounting it to Bearing box complete

[2] LUBRICATION

Apply lubricant as instructed in the table below.

Item No.	Description	Portion to lubricate	Lubricant	Amount (g)				
	Felt Ring 18 (a component part of Bearing box complete)	Apply sufficient lubricant to protect from dust.	"VG100"					
Fig. 1	Fig. 1 Bearing box complete Felt Ring 18 Ball Bearing 6002LLB							

[3] DISASSEMBLY/ASSEMBLY [3]-1. Armature

DISASSEMBLING

(1) Remove Collet cone and Collet sleeve from Spindle.

(2) Remove Insulation cover from Bearing box complete,

then separate Bearing box complete from Housing. (Fig.2) Fig. 2



BGD0801

► Repair

[3] DISASSEMBLY/ASSEMBLY

[3]-1. Armature

DISASSEMBLING

(3) Separate Armature from Bearing box complete. (Fig. 3)

Fig. 3



ASSEMBLING

Assemble Armature to Gear housing cover by using Armature positioning jig 1R383. (Fig. 4) Note: 1R383 must be used for fixing Armature spindle at right depth.



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BGD0801

► Repair

[3] DISASSEMBLY/ASSEMBLY

[3]-2. Spindle and Bearing Box Complete

DISASSEMBLING

(1) Remove Collet cone and Collet sleeve from Spindle and separate Bearing box complete from Housing. (Fig. 2)

(2) Separate Armature from Bearing box complete. (Fig.3)

(3) Disassemble Bearing box complete. (Fig. 5)

Fig. 5



ASSEMBLING

Do the reverse of the disassembling steps. (Figs. 5 and 4)

BGD0800 (LXDG01)/ BGD0801

Circuit diagram

Fig. D-1



► Wiring diagram

Fig. D-2



Fig. D-3



► Wiring diagram

Fig. D-4

