

Cordless Angle Grinder

DGA506

REPAIR MANUAL





1 INDEX

1	INDEX.		2		
2	CAUTIO	DN	2		
3	NECES	NECESSARY REPAIRING TOOLS			
4	LUBRIC	LUBRICANT AND ADHESIVE APPLICATION			
5 Rotor, Ball bearing 629LLB/ 607LLB, Spiral bevel gear 10					
	5-1	Disassembling	4		
	5-2	Assembling	6		
6	Spiral bevel gear 37, Ball bearing 696ZZ, Ball bearing 6201DDW				
	6-1	Disassembling	8		
	6-2	Assembling	10		
7 Shaft lock			12		
	7-1	Disassembling	12		
	7-2	Assembling	12		
8 Stator complete		13			
	8-1	Assembling	13		
9 Switch			14		
	9-1	Assembling of Slide switch	14		
	9-2	Assembling of Paddle switch	15		
10	Circuit d	iagram	16		
	10-1	Slide switch models	16		
	10-2	Paddle switch models	16		
11	Wiring c	liagram	17		
	11-1	Slide switch models	17		
	11-2	Paddle switch models	18		

2 CAUTION

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

3 NECESSARY REPAIRING TOOLS

Code No.	Description	Use for
1R003	Retaining pliers ST-2N	removing/assembling Ring spring 11
1R026	Bearing setting pipe 16-8.2	removing Ball bearing 6201DDW
1R028	Bearing setting pipe 20-12.2	press-fitting Spindle/ Spindle A
1R029	Bearing setting pipe 16-8.2	press-fitting Spiral bevel gear 37
1R032	Bearing setting plate 8.2	press-fitting Ball bearing 607LLB
1R036	Bearing setting plate 17.2	press-fitting Spiral bevel gear 37 Ball bearing 6201DDW/ 696ZZ
1R038	Armature holder 32 set for use with vise	clamping Rotor with a vise to remove M6 Hex nut
1R164	Ring spring setting tool A	press-fitting Ball bearing 6201DDW
1R212-A	Tip for Retaining ring pliers	use with 1R003
1R212-B	Plate set (with Screws)	use with 1R003
1R220	Ratchet head 9.5 (for 1R219)	assembling M6 Hex nut
1R222	Socket adapter	assembling M6 Hex nut
1R248	Round bar for Arbor 22-100	removing Felt ring 16
1R252	Round bar for Arbor 30-100	press-fitting Felt ring 16
1R254	Torque wrench shaft FT 2-6 N·m	assembling M6 Hex nut
1R258	V block	removing Spiral bevel gear 37
1R268	Spring pin extractor M3	removing Shoulder pin 4
1R269	Bearing extractor	removing Ball bearing 607LLB/ 696ZZ
1R284	Round bar for Arbor 10-50	removing Spiral bevel gear 37
1R291	Retaining ring S and R pliers	removing/ assembling Retaining ring R-32/ R-26
1R401	Bearing extractor	removing Rotor





4 LUBRICANT AND ADHESIVE APPLICATION

Apply lubricant and adhesive to the designated portions.











5 Rotor. Ball bearing 629LLB/ 607LLB, Spiral bevel gear 10 5-1 Disassembling



Remove Gear housing cover together with Rotor ass'y.

5-1-3

Hold Rotor ass'y in between 1R038 with a vise, then turn M6 Hex nut counterclockwise with an offset wrench 10. Spiral bevel gear 10 is removed.













5-2 Assembling

Assemble by reversing the disassembly procedure. Also, refer to the following points.



5-2-3

Receive Ball bearing 607LLB on 1R032, then protrude the shaft of Rotor from Ball bearing 607LLB by pressing from the opposite end carefully.













6 Spiral bevel gear 37, Ball bearing 696ZZ, Ball bearing 6201DDW 6-1 Disassembling

Note: The above parts can be removed without disassembling Motor section.



6-1-2 Remove Ball bearing 696ZZ with 1R269.















6-2 Assembling

Assemble by reversing the disassembly procedure. Also, refer to the following points.







7 Shaft lock



7-1 Disassembling



7-1-2 Push out Shoulder pin 4 with a metal hammer and IR268. Note: Do not re-use the removed Pin cap because removal of the pin cap damages the inside surface of the cap.

7-2 Assembling

Assemble by reversing the disassembly procedure. Be careful about **Note in Fig. 7-1-2**



8 Stator complete

8-1 Assembling









9 Switch9-1 Assembling of Slide switch











9-2 Assembling of Paddle switch





10 Circuit diagram

10-1 Slide switch models







11 Wiring diagram

11-1 Slide switch models



Ti Ta





11-2 Paddle switch models



