

PRODUCT P 1/ 9

Model No. ► MT92A, MT92B

Description ► Angle Grinders 180mm (7"), 230mm (9")

# **C**ONCEPT AND MAIN APPLICATIONS

These maktec brand angle grinders MT92A and MT92B have been designed for price competitive markets.

New maktec design is employed to eliminate white printing and polygonal line from maktec logo/ elastomer from handle for the cost effectiveness.



Dimensions: mm (")			
	MT92A MT92B		
Length (L)	439 (17-1/4)		
Width (W)	200 (7-7/8)	250 (9-7/8)	
Height (H)	141 (5-9/16)		

## ► Specification

Valtaga (V)	e (V) Current (A)	Cycle (Hz)	Continuous Rating (W)		Max Output (W)
voltage (v)			Input	Output	Max. Output (W)
220	10.5	50/60	2,200	1,700	2,900
230	10.0	50/60	2,200	1,700	2,900
240	9.6	50/60	2,200	1,700	2,900

Specification Model No.		МТ92А	МТ92В	
Wheel size: mm (")	Diameter	180 (7)	230 (9)	
	Hole diameter	22.23 (7/8)	22.23 (7/8)	
	Max. thickness	6 (1/4)	6 (1/4)	
No load speed: min. <sup>-1</sup> = rpm		8,500	6,600	
Protection against electric shock		Double insulation	Double insulation	
Power supply cord: m (ft)		2.0 (6.6)	2.0 (6.6)	
Weight according to EPTA-Procedure 01/2003*: kg (lbs)		5.0 (11.0)	5.3 (11.6)	

\* with Wheel cover, Inner flange, Lock nut, and Side grip

## ► Standard equipment

Lock nut wrench 35 ..... 1 Grip 36 complete ..... 1

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

## Optional accessories

No



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

## [1] NECESSARY REPAIRING TOOLS

Code No.	Description	Use for	
1R004	Retaining ring pliers ST-2	disassembling/ assembling Ring spring 13	
1R006	Retaining ring R pliers RT-2E	disassembling/ assembling Retaining ring R-32	
1R026	Bearing setting pipe 16-8.2	removing Spiral bevel gear 53A or 53B	
1R282	Round bar for Arbor 8-50		
1R269	Bearing extractor	removing Ball bearings	

### [2] LUBRICATION

Apply **Makita grease N No.1** to the following portions designated with the black triangle to protect parts and product from unusual abrasion.

Item No.	Description	Portion to lubricate	Amount
4	Gear housing	Gear room for smooth engaging of Spiral bevel gears	approx. 60g
Fig. 1 Spiral b Spiral b	evel gear 16 for Model MT evel gear 12 for Model MT	4 Spiral bevel gear 53A for Mo Spiral bevel gear 53B for Mo Spiral bevel gear 53B for Mo Bearing box	odel MT92A odel MT92B

# [3] DISASSEMBLY/ASSEMBLY[3] -1. Difference of Gears between MT92A and MT92B

Refer to the following gears. They are not interchangeable.

Model No.	Small spiral bevel gear (Gear on Armature shaft)	Large spiral bevel gear (Gear on Spindle)
МТ92А	Spiral bevel gear 16 24.5 mm Number of teeth: 16	Spiral bevel gear 53A
MT92B	Spiral bevel gear 12 () 19mm Number of teeth: 12	Spiral bevel gear 53B

# [3] DISASSEMBLY/ASSEMBLY[3]-2. Small spiral bevel gear, Armature, Ball bearings 6201DDW and 629ZZ

#### DISASSEMBLING

(1) Separate Gear housing from Motor housing and remove Bearing box section from Gear housing. ( Fig. 2) Fig. 2



(2) Disassemble Armature and Small spiral bevel gear. (Fig. 3)

#### Fig. 3



Note: If it is difficult to pull off Armature by hand, do the following steps.

- 1. Lubricate Small spiral bevel gear and Armature shaft with spray lubricant.
- 2. Wrap the gear with a cloth to protect the gear teeth.
- 3. By using Water pump pliers, firmly grip the gear wrapped with a cloth, and then turn and pull Armature.

# [3] DISASSEMBLY/ASSEMBLY[3]-2. Small spiral bevel gear, Armature, Ball bearings 6201DDW and 629ZZ (cont.)

#### DISASSEMBLING

(3) Disassemble Ball bearings 6201DDW and 629ZZ. (Fig. 4)

**Note:** The removed Armature and small Spiral bevel gear are employed as repairing tools when removing Ball bearing 6201DDW from Gear housing.





### ASSEMBLING

(1) Armature can be also used as an assembling jig for Ball bearing 6201DDW to Gear housing. (Fig. 5)

#### Fig. 5



(2) Assemble Spiral bevel gear 16 or 12 and M7 Hex nut to Armature shaft by reversing the disassembly procedure. (Fig. 3)

# [3] DISASSEMBLY/ASSEMBLY[3]-3. Large spiral bevel gear, Ball bearing 6202DDW and Ball bearing 607ZZ

#### DISASSEMBLING

(1) No need to separate Motor housing from Gear housing. Separate Bearing box section from Gear housing, and remove Ball bearing 607ZZ and Ring spring 13 from Spindle. (Fig. 6)

#### Fig. 6



#### (2) Disassemble Spindle. (Fig. 7)

#### Fig. 7



# [3] DISASSEMBLY/ASSEMBLY[3]-3. Large spiral bevel gear, Ball bearing 6202DDW and Ball bearing 607ZZ (cont.)

#### DISASSEMBLING

(3) Disassemble Ball bearing 6202DDW. (Fig. 8)

#### Fig. 8



#### ASSEMBLING

- Assemble Bearing box section as follows:
- (1) Mount Ball bearing 6202DDW to Bearing box. And mount Bearing retainer. (Refer to Fig. 8)
- (2) Mount Spindle by pressing it with Arbor press. (Refer to Fig. 7)
- (3) Assemble large Spiral bevel gear and secure it with Ring spring 13. And mount Ball bearing 607ZZ to Spindle. (Refer to **Fig. 6**)

### [3] DISASSEMBLY/ASSEMBLY [3]-4. Shaft Lock

#### DISASSEMBLING

(1) Remove Bearing box section from Gear housing complete. (Fig. 2)

(2) Disassemble Shaft lock mechanism as drawn in Figs. 9 and 10.

#### Fig. 9





### ASSEMBLY

(1) Be sure to use a new Pin cap for replacement and to remove all the plastic dust on Shoulder pin 5. (Fig. 11) (2) Assemble the Parts for Shaft lock mechanism as drawn in Fig. 12.

Fig. 11

#### Fig. 12



## Circuit diagram





## ► Wiring diagram



# Wiring diagram

#### Fig. D-3



#### Fig. D-4

