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CONCEPT AND MAIN APPLICATIONS

Model MT912 has been developed as the cosmetic change model of **maktec** die grinder MT911.

Its main features are:

• Industrial performance and durability at less expense

• Anti-slip ribs on motor housing for higher maneuverability and better control



Dimensions: mm (")		
Length (L)	350 (13-3/4)	
Width (W)	75 (2-15/16)	
Height (H)	75 (2-15/16)	

Specification

Voltage (V)	Current (A)	Cycle (Hz)	Continuous Rating (W)		Max Output (W)
			Input	Output	Max. Output (W)
110	4.6	50/60	480	140	380
120	4.2	50/60		140	380
220	2.3	50/60	480	140	380
230	2.2	50/60	480	140	380
240	2.1	50/60	480	140	380

Collet size*1	6mm or 1/4"
No load speed: min. ⁻¹ =rpm	33,000
Max wheel diameter*2: mm (")	20 (13/16)
Protection against electric shock	Double insulation
Power supply cord: m (ft)	2.0 (6.6)
Weight according to EPTA-Procedure 01/2003*3: kg (lbs)	1.4 (3.1)

*1: 3mm and 1/8" shank collets can be used by changing Collet cone.

*2: Max wheel diameter for China is the same of 20mm (13/16").

*3: with Collet nut, Collet cone

Standard equipment

Wrench 2

Collet cone 6mm or 1/4" 1

Insulation cover 1 (for some countries only)

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

► Optional accessories

Collet cones (3mm, 6mm, 1/8", 1/4")



► Repair

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

[1] NECESSARY REPAIRING TOOLS

Code No.	Description	Use for
1R031	Bearing setting pipe 28-20.2	mounting Ball bearing 6001ZZ to Barrel
1R045	Gear extractor (large)	removing/mounting Ball bearing 6001ZZ from/to Spindle
1R232	Pipe 30	supporting Barrel when removing Spindle
1R247	Round bar for Arbor 20-100	removing Ball bearing 629ZZ from Barrel
1R250	Round bar for Arbor 26-100	mounting Ball bearing 629ZZ to Barrel
1R269	Bearing extractor	removing Ball bearing 607ZZ from Armature
1R282	Round bar for Arbor 8-50	 attaching to 1R045 when mounting Ball bearing 6001ZZ to Spindle attaching to arbor press when removing Armature from Gear housing cover
1R291	Retaining ring S & R pliers	removing/mounting Retaining ring S-12 from/to Spindle
784416-4	Socket bit 17-55	removing/mounting Coupling

[2] LUBRICATION

Apply Lubricant VG100 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	Felt ring 17	Whole portion	enough to be absorbed in Felt ring 17 entirely
17)	O ring 26	Whole portion	a little
Fig.	1 Bearing retainer Spindle Barre Bar	4 Coupling Flat washer 22 Il bearing 629ZZ	

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Repair [3] DISASSEMBLY/ASSEMBLY [3] -1. Barrel Section

DISASSEMBLING

- (1) Remove Insulation cover from Barrel if the cover is used.
- (2) Disassemble Coupling and Bearing retainer from Barrel as drawn in Fig. 2.
- Fig. 2



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Repair [3] DISASSEMBLY/ASSEMBLY [3] -1. Barrel Section (cont.)

DISASSEMBLING

(3) Spindle section is now removed from Barrel as drawn in Fig. 3.

Fig. 3



Repair [3] DISASSEMBLY/ASSEMBLY [3] -1. Barrel Section (cont.)

ASSEMBLING

(1) Assemble Spindle section as drawn in Fig. 4.

(2) Assemble Ball bearing 629ZZ to Barrel, and then assemble the Spindle section to Barrel. (Fig. 5)

(3) Assemble Flat washer 18, Felt ring 17 and Bearing retainer to Barrel as drawn in Fig. 6.

Fig. 4



Repair [3] DISASSEMBLY/ASSEMBLY [3] -1. Barrel Section (cont.)

ASSEMBLING

(4) Assemble Barrel to Motor housing. (Fig. 7)

Note in Assembling: When Barrel section is assembled to Motor housing, Rotation direction mark of Barrel must be positioned on the same side of Switch knob.

(5) Mount Insulation cover to Barrel if the cover is used. (Fig. 8)

Fig. 7



Fig. 8



[3] -2. Armature

DISASSEMBLING

(1) Disassemble Armature as drawn in Fig. 9.

Fig. 9



Repair [3] DISASSEMBLY/ASSEMBLY [3] -2. Armature (cont.)

DISASSEMBLING

(2) Disassemble Armature section. (Fig. 10)

Fig. 10



ASSEMBLING

Assemble Armature section by reversing the disassembly procedure. (Refer to Figs. 10 and 9)

[3] -3. Field

DISASSEMBLING

(1) Remove Brush holder caps and Carbon brushes. (Refer to Fig. 9)

- (2) Disassemble Barrel section and Armature together with Gear housing cover. (Refer to Fig. 9)
- (3) Disassemble Field from Motor housing as drawn in **Fig. 11**.

Fig. 11



ASSEMBLING

Assemble Field by reversing the disassembly procedure. (Refer to Figs. 11 and 9)

Circuit diagram





Wiring diagram

Motor housing of Rear cover side

Pass Field lead wires (black and white) through the holes of Motor housing. Insert the grounding terminal of noise suppressor's lead wire deeply into the hole of Motor housing. Install Noise suppressor to the space painted with gray color in **Fig. D-2**.



Pass Field lead wires (black and white) through the groove of Support while tightening them between Motor housing and Support.





► Wiring diagram

Support section



Install Terminal block and Switch to Support. (Fig. D-4)





► Wiring diagram





