



KE100D

Reference for safety/

Please read this reference carefully and use this unit properly. Reference is for keeping safety and preventing damage of property.

USER'S MANUAL

Components

- ① CONTROL UNIT (1pcs)
- ② Handpiece(1pcs)
- ③ Handpiece 3 pin Cord (1pcs)
- ④ Foot Speed Control (Optional)
- ⑤ On/Off Switch (Optional)
- ⑥ Rubber Stand(1pcs)
- ⑦ Power Cord(1pcs)
- ⑧ Carbon Brush(1pair)
- ⑨ Chuck Wrench(1pcs)

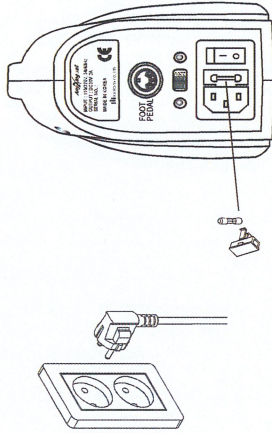
Reference for safety

Installation

- Do not install on unstable location.
 - Please keep all vents opened
 - Do not install in a location where exposed a direct ray of light.
 - Please use in a place where temperature is from 0 degree to 40 degree centigrade.
 - Please don't use in high temperature and humidity or in the dust.
- #### While working
- Do not drop or shock while motor rotating.
 - Do not leave a motor being turned on.
 - Do not turn off power switch when motor is on.
 - Please wear protective goggles to prevent eyes when cutting or grinding.

Electric power

AC 110~220V, 50/60Hz



Main Power

- Please insert power cord to outlet after confirming AC 100~120V 50/60Hz or AC 200~240V 50/60Hz.
- This unit is set with AC200~240V 50/60Hz when taking goods out of the company.

- Fuse Specification
- 250V 3A

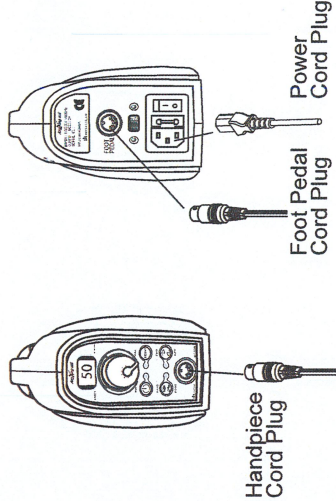
Others

- Please prevent the machine from coming food and other substances.
- Do not drop alcohol or benzene as there is fire danger.
- Do not assembly, repair, modify recklessly.

Warning/Notice

- Warning** This mark is used when user's misusing can cause death or severe injury
- Notice** This mark is used when user's misusing can cause a property loss

Electric connection



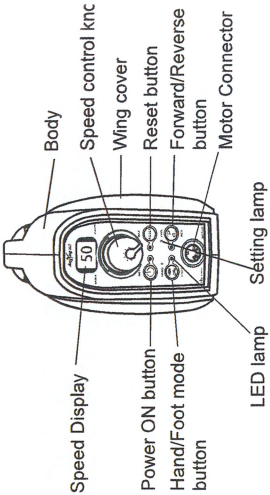
- Please connect the handpiece cord plug to motor connector of control unit after confirming direction.
- Please connect the foot-pedal plug and power cord on rear of control unit after confirming direction.

Notice

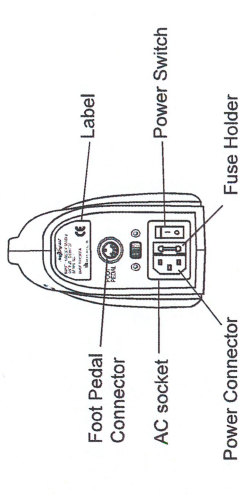
After connecting all cords, please check safety and then insert power cord to outlet.

Part name

Front



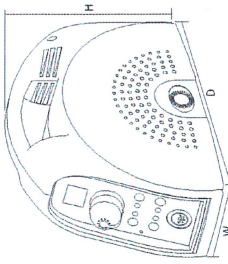
Rear



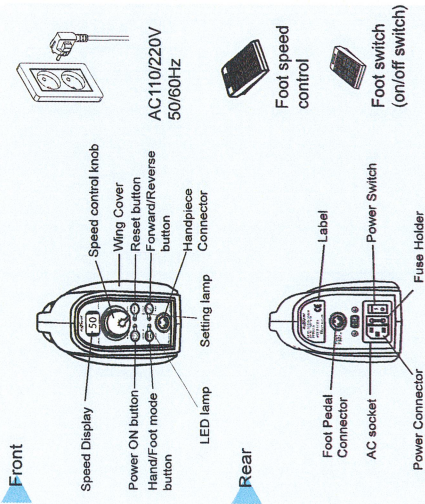
Specification

Control Unit

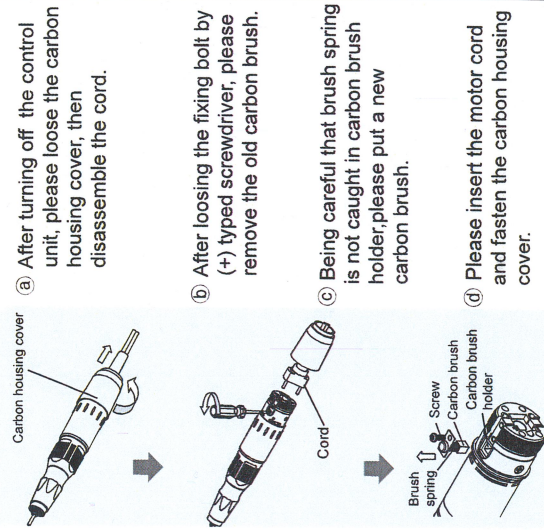
REF. NO.	INPUT POWER SOURCE	MAXIMUM LOAD CURRENT	OUTPUT POWER	FUSE	WEIGHT	DIMENSION (mm)
1	110/220V 50/60Hz	2.5A	DC 0-32V 120 W	250V 3A	2.2KG	81 * 222 * 161
	110/220V 50/60Hz	2A	DC 0-32V 100 W	250V 3A	1.8KG	78 * 222 * 161



HOW TO operate the control box

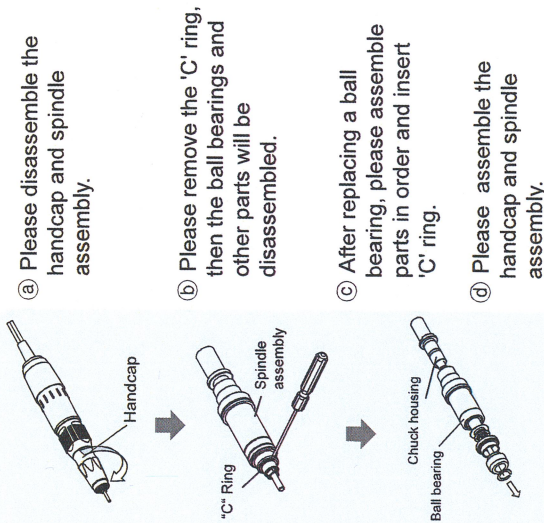


■ Replacement of "Carbon Brush"



※ The replacement period of Carbon brush is about 1 year, but it is flexible according to the workload.

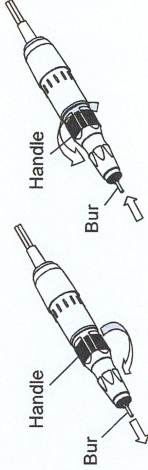
■ Replacement of the ball bearing.



▲ Notice
Please use the handpiece after checking the existence of disorder under idle.

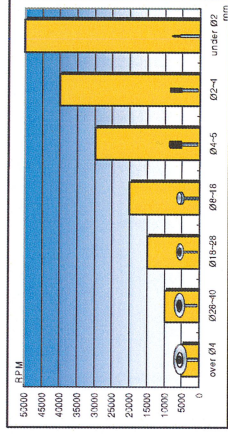
How to treat the handpiece.

■ Replacement of Bur



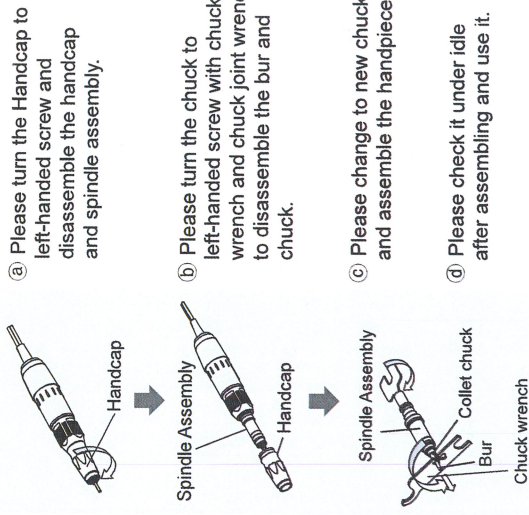
Please turn the handle to right-handed screw until sounding 'click', then replace the new 'Bur' and turn the handle to left-handed screw until sounding 'click' to lock the chuck.

■ Recommended speed according to the bur size



▲ Notice
When using the bur, please observe the recommended rotation speed according to outer diameter.

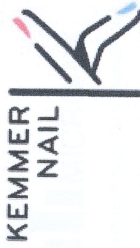
■ Disassembly and Assembly of Collect Chuck.



※ The life cycle of chuck is 2~3 years and it is flexible according to the workload.

Trouble and Countermeasure

Problem	Check Point	Solution
Power Lamp is not lighted when turning on the power switch	Is the power cord plug connected well? Isn't the fuse broken? Trouble of power switch	Please insert the plug of power cord in outlet correctly. Please replace it to designated fuse. If it goes on continuously, then ask repair. Please ask repair
The motor does not work	Is the cord of motor connected well? Isn't the chuck opened? Internal Circuit's problem in control unit Have you used a handpiece for a long time under high-load? Please confirm whether the motor shaft rotate by hand	Please insert the motor cord in outlet correctly Please lock the collect chuck by turning the handle to left-handed screw. Please ask repair Turn off the control unit, please keep it at cool place for 10 minutes and work it. If the motor shaft does not work when the collect chuck is locked, it is problem of handpiece. Please ask repair.
Foot pedal does not work	Is the cord of foot pedal connected well? Isn't the Hand mode set up instead of Foot mode?	Please insert the plug of foot pedal in outlet correctly on the rear. Please change to 'Foot mode' by pulling Hand/foot mode button. Foot mode is a state that the LED is turned off.
The handpiece makes noise	Isn't foreign substance in a collect chuck? Don't you use it at abnormal speed? Isn't the bur curved? Does the motor make noise continuously?	Please remove it after disassembling the collect chuck. (Please refer to this instruction for use) Please adjust the RPM properly after referring to the permitted RPM for bur. Please replace it with normal one. Please ask repair.



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