

Instruction Manual

for

ULTRAMAX

MF TOUCH

#500-0237



Parts and descriptions of MF Touch

MF Touch Front side



Handle

Touch Panel

Output on/off switch

Output control knob

DC Brushless handpiece socket

DC Brush handpiece socket

Ultrasonic handpiece socket

Back side



Power switch

Foot switch socket

Power input socket
(including 20mm
fuse holder)

Display of Trouble warning

In case of abnormal use or overload, the overload protection will cut off the output and the trouble signal will blink. Please turn the power switch off and on again to


Trouble Signal	Meaning
	DC/BLDC handpiece rotation overload. DC/BLDC handpiece cable short circuit. Main unit failure.
	BLDC handpiece is incompatible with the MF Touch. Main unit failure.
	BLDC handpiece is stuck or not connected. BLDC handpiece cord failure.
	Ultrasonic handpiece failure or tool holder loosed Ultrasonic cable failure.

Handpieces Included with the 3-in-1 Kit



For information on the additional handpieces included with the 3-in-1 Kit, please refer to the instructions included with those handpieces.



- Recipro Handpiece Z-2X (Item# 510-2150) or Z-6X (Item# 510-2160)
- BH60 Handpiece (Item# 500-0224)
- Brushless DC Handpiece (See page 7 of this manual)

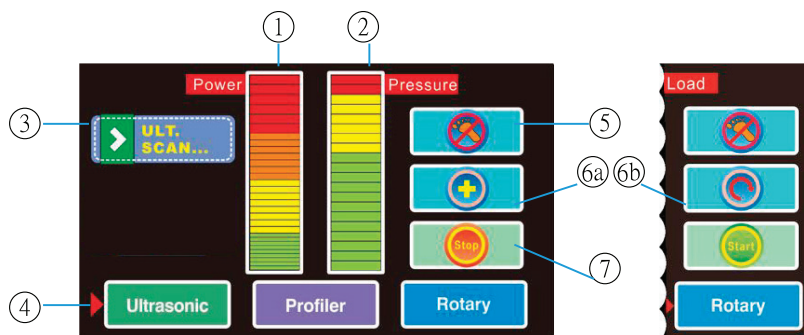
On/Off-type Foot Switch Usage

1. At any time in operation, the Foot Switch can be plugged in the socket on the backside of the MF Touch.
2. Please adjust to the required speed by turning the Output Control Knob.
3. When using the Foot Switch, please keep depressing it to produce output.
4. The Output On/Off Switch on the main unit or touch panel  is NOT available when the On/Off-type Foot Switch is connected. Please depress the Foot Switch to control output.

Variable Foot Control

1. At any time in operation, the Variable Foot Control can be plugged in the socket on the backside of the MF Touch.
2. After the Variable Foot Control is connected, the screen on the upper right corner of the panel will display the signal .
3. Please adjust to the required speed by turning the Output Control Knob.
4. The output setting display on the panel will indicate the output level, which is determined by the depressing of the Variable Foot Control. The output power (or speed) will not exceed the level set by the Output Control Knob.
5. When using the Variable Foot Control, please keep depressing it to produce output.
6. To stop operating the MF Touch with Variable Foot Control, please press the button  on the panel, and then the Variable Foot Control will be disconnected.

Signal	Meaning
	Variable Foot Control is connected
	Variable Foot Control is disconnected



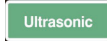



- ① Output setting display
- ② Load display
- ③ Display of frequency tracing and trouble warning
- ④ Function selection
 - Ultrasonic: Ultrasonic function
 - Profiler: DC rotary function
 - Rotary: DC brushless rotary function
- ⑤ Display of Variable Foot control
- ⑥ a. Ultrasonic: Increase 30% output
- b. Profiler/Rotary: Forward/Reverse control
- ⑦ Output on/off button


Safety Instructions

1. Before connecting power supply to the MF Touch, please confirm the range of input voltage.
2. Please turn off the power before changing the rotary handpiece or replacing lapping and polishing tools each time.
3. Please make sure the MF Touch is placed on a solid surface to avoid accidental drop or tipping.
4. Please do not use the MF Touch in a damp environment.
5. When a machine failure occurs, do not attempt to disassemble the MF Touch. Please contact your supplier for repair.

Operating Guide






Ultrasonic Polishing Usage

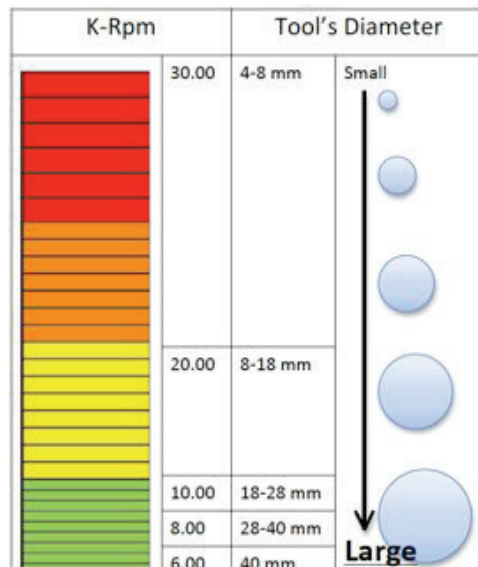
1. Install a proper holder and tool on the ultrasonic handpiece. (Please use the tool changing rack to avoid damaging inner circuit)
2. Insert the handpiece plug into the socket on the front side of the MF Touch.
3. Turn on the power of the MF Touch, the display of the touch panel will default to the mode last used.
4. Please press the button  on the panel to select the ultrasonic function, and then the screen on the upper left corner of the panel will display the signal , which means the MF Touch is now scanning the frequency.
5. If the signal is off, it means the frequency has been traced successfully. Then push the Output On/Off Switch on the main unit or touch panel  to start to use.
5. During usage, the output power can be adjusted by turning the Output Control Knob. Press the button , and then the output will increase 30%, even in the condition of full power. It's recommended to use this function with large handpiece GS-H04 and NOT to operate the MF Touch in this mode for long periods of time with small handpiece GS-H26. To make the output power reduce to original circumstance, please press the button again.

 +30% POWER	large handpiece GS-H04	✓
	small handpiece GS-H26	✗






6. Tools and tool holders must be securely fastened on the tool changing rack; otherwise it will not only reduce the output power, but also cause the failure of the MF Touch to trace the correct frequency.
7. A high-pitched noise will be emitted if the tool or tool holder is not securely fastened or fully clamped. Please check again if all joints are connected securely. If the noise still persists, please switch off the power and replace the tool or tool holder. Then restart the MF Touch to activate the automatic frequency adjustment.

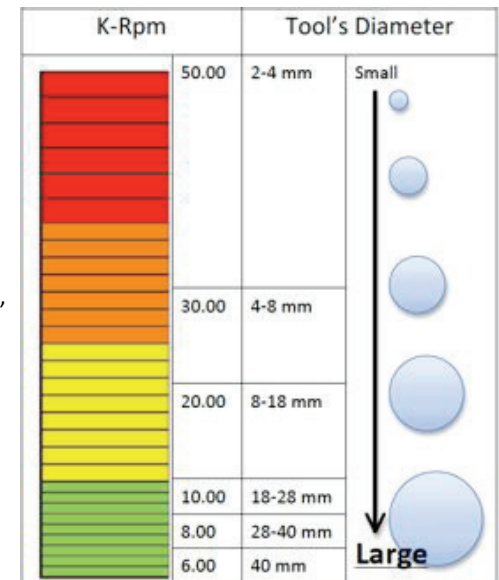
Brush-type DC Handpiece Usage

1. The MF Touch is intended for D.C30V micro motor handpieces.
2. Connect a handpiece to the jack on the main unit, and install a proper polishing tool.
3. Turn on the power of the MF Touch, the display of the touch panel will default to the mode last used.
4. Please press the button  on the panel to select the function of DC rotary, and then push the Output On/Off Switch on the main unit or touch panel  to start to use.
5. The starting speed is set to be the minimum speed as default for your own safety. Please adjust to the required speed by turning the Output Control Knob.
6. When the tool is rotating, the MF Touch will display the tool loading on the panel. To protect the handpiece, please do not operate over the red light level.
7. The direction of rotation is set to be forward-rotating as default. To change the direction, please press the Forward/Reverse button  on the panel at first, and then the rotation will be stopped. The signal of rotation direction will change to be . Push the Output On/Off Switch on the main unit or touch panel , the direction will change afterwards.
8. For your own safety, please control the rotating speed within a suitable range to fit the tool in operation. It's recommended to use small tools in high-speed rotation. On the contrary, large tools are properly to be operated in slow rotation.



Brushless DC Handpiece usage

1. Connect a handpiece to the jack on the main unit, and install a proper polishing tool.
2. Turn on the power of the MF Touch, the display of the touch panel will default to the mode last used.
3. Please press the button  on the panel to select the function of brushless DC rotary, and then push the Output On/Off Switch on the main unit or touch panel  to start to use.
4. The starting speed is set to be the minimum speed as default for your own safety. Please adjust to the required speed by turning the Output Control Knob.
5. When the tool is rotating, the MF Touch will display the tool loading on the panel. To protect the handpiece, please do not operate over the red light level.
6. The direction of rotation is set to be forward-rotating as default. To change the direction, please press the Forward/Reverse button  on the panel at first, and then the rotation will be stopped. The signal of rotation direction will change to be . Push the Output On/Off Switch on the main unit or touch panel , the direction will change afterwards.
7. For your own safety, please control the rotating speed within a suitable range to fit the tool in operation. It's recommended to use small tools in high-speed rotation. On the contrary, large tools are properly to be operated in slow rotation.



Specification

Summary	
Dimensions	27.5 cm ×20 cm ×20 cm
Net Weight	4.6 Kg
Electrical	90-240VAC 50/60Hz
Max. Power Consumption	300 watts
Overload Protection	Yes
Fuse	3A 20mm time-lag
Output Adjustment	Continuously Variable
Touch Panel	4.3 inch, Color

Ultrasonic	
Operating Frequency	18-26kHz
Frequency Adjustment	Automatic feedback
Stroke Amplitude	3-40 microns
Max. Output Power	45 W

DC Tools	
Output DC Rotary Tool	5-32VDC, Max. 180 W
Output DC Brushless Tool	1,000-50,000 rpm, Max. 250 W



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