

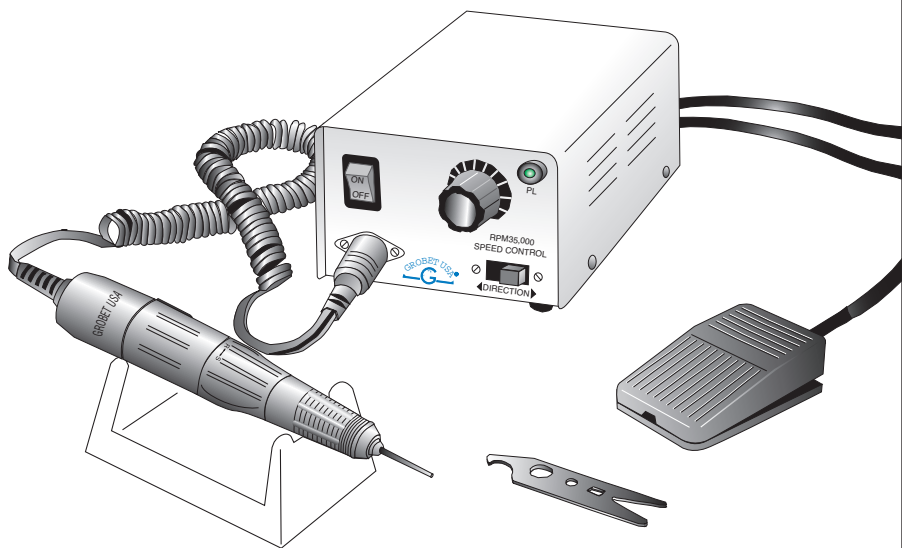
# GROBET USA<sup>®</sup>



## MICROMOTOR

**No. 34.555** - 110/220V w/ on-off foot pedal - 3/32" collet

### OPERATING INSTRUCTIONS



Thank you for your purchase. If properly used and maintained, you should have many years of trouble-free performance. Please be sure to read all instructions before operating.

### **PRECAUTIONS**

1. When using electric tools, use basic safety precautions in order to reduce risk of fire, electric shock and personal injury.
2. Do not expose electric tools to water, or use in damp or wet locations.
3. Do not wear loose clothing or jewelry as they can be caught in the drill.
4. Do not attempt to service or repair handpiece, control box or foot control. This will void warranty.
5. Do not oil, lubricate or grease the handpiece. The bearings are sealed and this will cause damage.
6. Do not attempt to open collet (release bur) while handpiece is running.
7. Do not switch forward or reverse direction until motor has completely stopped.
8. Do not run handpiece without a bur properly locked in place.

**COMPLETE UNIT COMES WITH:** Control box, handpiece (motor), rubber stand for handpiece, spare set of carbon brushes, replacement fuse, collet wrench, and foot pedal.

# DESCRIPTION OF PARTS

## Control Box

1. **SPEED CONTROL DIAL** (0-35,000 RPM's): Turn dial clockwise to increase speed and counterclockwise to reduce speed. When using control box in the "hand mode", dial should be turned fully counterclockwise to the "off" position when not in use.
2. **ON/OFF (Hand/Foot) SWITCH**: In the "ON" (up position), the handpiece is turned on and off using the speed control dial and the power light (green) remains lit at all times. In the "OFF" (down position), the handpiece is turned on and off using the foot control and the power light only goes on when power is applied.
3. **FORWARD-REVERSE CONTROL**: When the switch is set to "►", the handpiece spins clockwise. In the "◄" position, the handpiece spins counter-clockwise.
4. **HANDPIECE OUTLET**: The handpiece plugs in here.
5. **110/220 VOLT SWITCH**: All 110 volt units can operate on 220 volt with this switch in the proper position.
6. **FOOT CONTROL OUTLET**: The foot control plugs in here.

## Handpiece

7. **COLLET RELEASE**: Twist clockwise until a "click" is heard to release the bur from the collet. Turn counter-clockwise to secure bur in collet.
8. **COLLET**: Insert bur, brush, mandrel etc. into the collet. Replacement collets are available.
9. **HANDPIECE REST**: Holds handpiece when not in use. This is not intended to be used while handpiece is spinning.
10. **COLLET WRENCH**: Used to change or replace collets.

## Foot Controller

11. **ON/OFF FOOT CONTROL**: The on/off foot pedal sends power to the handpiece. The speed of the handpiece is controlled by the speed control dial (#1 above) on the control box.

## **INSTRUCTIONS FOR CHANGING COLLET FOR GROBET MICROMOTOR**

1. Twist COLLET RELEASE clockwise until a "click" is heard to open collet.
2. Place the triangular opening of the collet wrench (supplied) over the collet and turn wrench counter-clockwise to loosen the collet.
3. Unscrew the 1 1/4" long collet assembly.
4. Insert new collet and reassemble in reverse order.
5. Turn COLLET RELEASE counter-clockwise to lock collet.
6. Check carefully that the tool is held firmly. If tool is loose - pulls out - tighten collet until tool is held securely.

## **INSTRUCTIONS FOR CHANGING BRUSHES FOR GROBET MICROMOTOR**

1. The brushes are located in the back of the handpiece, in the section closest to the power cord.
2. Grab the front sections of the handpiece with one hand and unscrew the 1 3/8" long cap at the back of the handpiece with the other hand.
3. Remove the old brushes using a Phillips head screwdriver.
4. Insert the new brushes and reassemble handpiece.

## **SUGGESTED MAINTENANCE**

1. Carbon brushes in handpiece motor are designed for long life (approximately 1,000 hours). Carbon brushes should be replaced periodically (approximately 1 year). Replacement part No. 34.5553 - pack of 2 brushes.
2. Keep clean from dust and grindings as best as possible.
3. Wipe handpiece only with isopropyl alcohol and avoid getting inside wet. It is normal for the handpiece to feel slightly warm after continued use. Use standard ISO burs,  $3/32"$  (2.35 mm). Avoid using rusty or eccentric burs as this will cause excess wear on the bearings. Follow safety speeds and precautions recommended by the bur manufacturer. Always wear a dust mask, eye protection and use adequate suction or ventilation.
4. Do not drop the handpiece at any time as this may cause damage to the bearings. In the event the handpiece is dropped, please check that the bur is not bent and resume use carefully, checking for excess noise or heat. If there is any damage, please return to manufacturer for service.

## **WARRANTY**

Control box & foot control - 1 year. Handpiece (motor) - 6 months.

**WARRANTY DOES NOT INCLUDE MISUSE OR NORMAL WEAR OF BEARINGS OR CARBON BRUSHES.**

## **CONTROL BOX SPECIFICATIONS**

110V/220V unit - input: 110/220V, 50/60 Hz; output: 0-32V, DC; fuse: 2 AMP

Weight: 3.4 lbs. (1.54 kg)

Operating Speed Range: 0-35,000 RPM

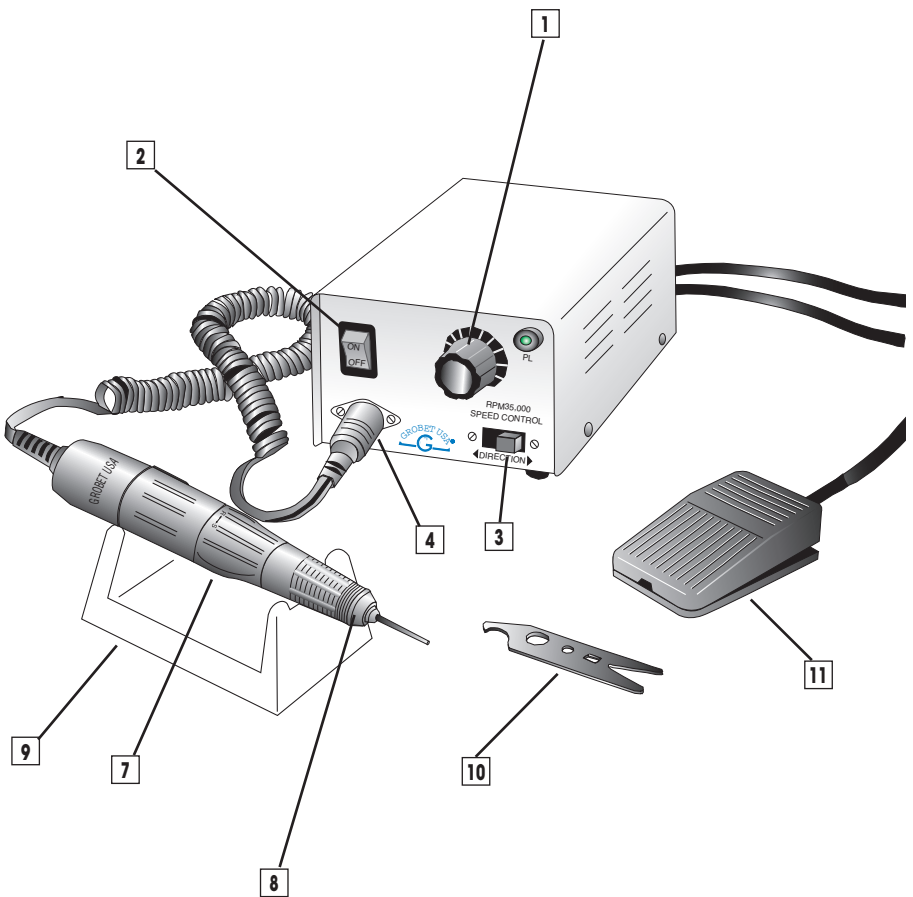
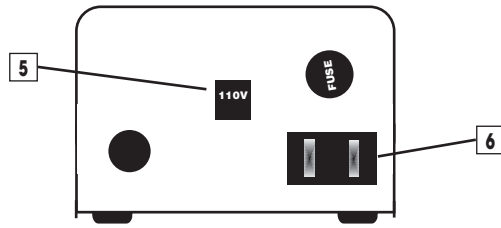
Length: 5" x Width:  $3\ 3/4"$  x Height:  $2\ 3/4"$  (127 x 95 x 70 mm)

## **HANDPIECE SPECIFICATIONS**

DC 30 volts

Weight:  $9\ 3/4$  oz (276 g); Length: 6" (152 mm) Diameter:  $1\ 1/8"$  (29 mm)

# REAR VIEW



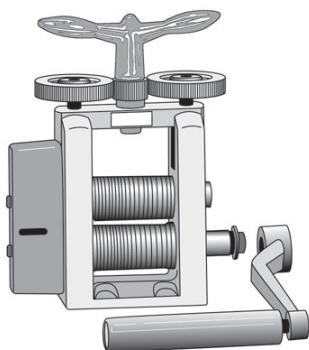
## REPLACEMENT PARTS

|                    |   |
|--------------------|---|
| No. <b>34.5551</b> | Replacement Control Box (110/220V)                            |
| No. <b>34.5552</b> | Replacement Micromotor Handpiece with $\frac{3}{32}$ " collet |
| No. <b>34.5553</b> | Replacement Brushes for Micromotor Handpiece                  |
| No. <b>34.5554</b> | Replacement On/Off Foot Control                               |
| No. <b>34.5556</b> | Replacement Collet $\frac{3}{32}$ " (2.35mm)                  |
| No. <b>34.5557</b> | Replacement Collet 3mm  |
| No. <b>34.5558</b> | Replacement Collet $\frac{1}{8}$ " (3.175mm)                  |

# LOOK FOR THESE PRODUCTS



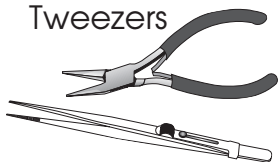
Panther  
Burs



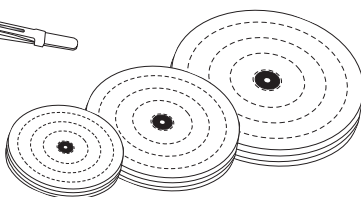
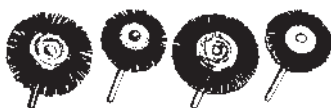
Rolling Mills



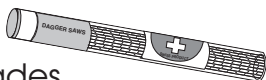
Pliers  
and  
Tweezers



Dixel® Brushes  
and Buffs



Swiss Saw Blades



**ASK YOUR LOCAL DISTRIBUTOR FOR MORE  
INFORMATION ON OTHER PRODUCTS BY GROBET USA®**



Carlstadt, NJ 07072