
OPERATION and MAINTENANCE INSTRUCTION MANUAL



AEU-17BEA Surgery System



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Your new Aseptico Surgery System is one of the finest units available to the medical professional. The system features a high torque brushless motor with digital R.P.M. readout for precise speed control. These features combine to make the perfect surgical motor for endodontic and other medical surgeries.

Congratulations!

This system is engineered to provide many years of reliable service. Please read the instructions provided in this manual to receive the best and longest service from your Aseptico equipment.

Separate manuals may be provided to cover the operation and maintenance of handpieces or other accessories for your unit.

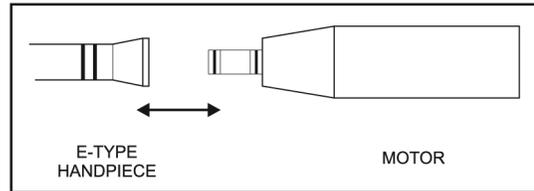
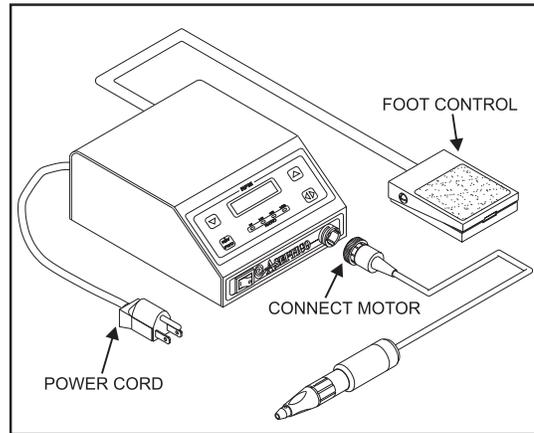
PACKAGE CONTENTS

- Electric Control Console
- Remote Power Cord
- Autoclavable Brushless Micro Motor
- Autoclavable Motor Holder
- Foot Control
- Handpiece

SETTING UP THE UNIT

AEU-17BEA Manual

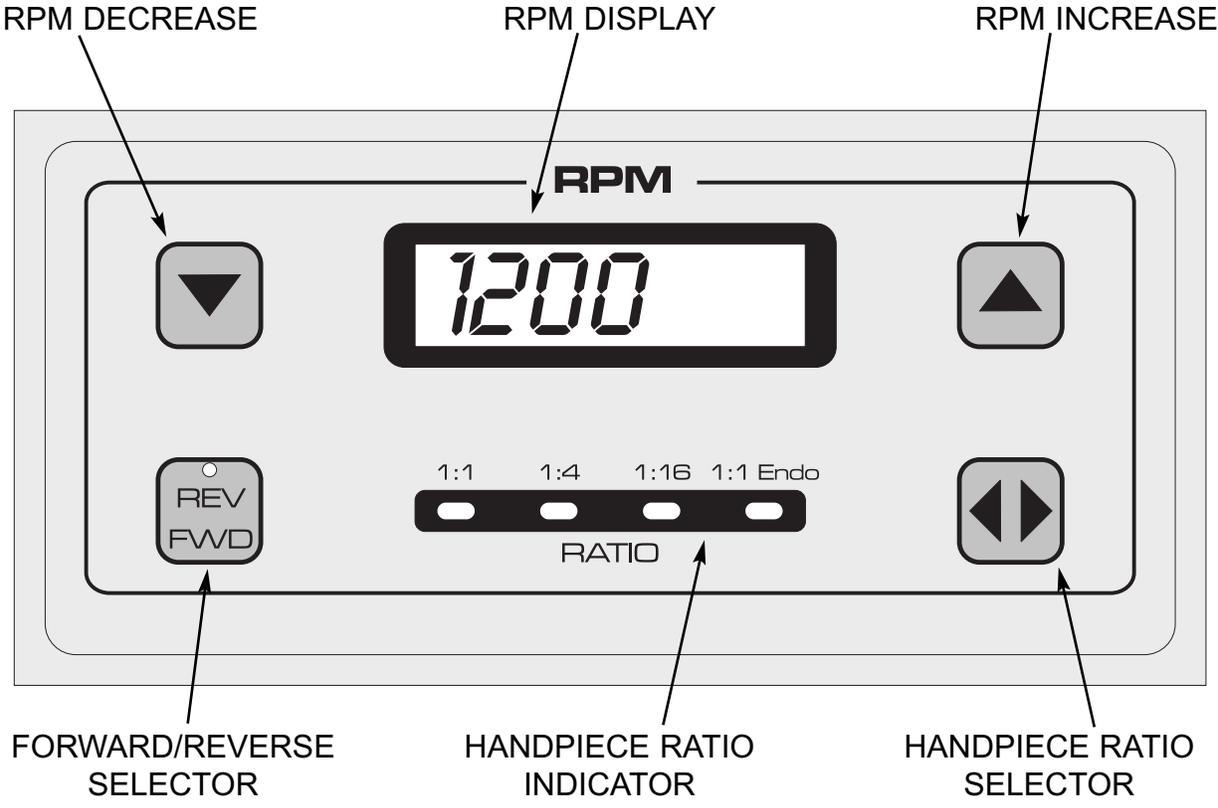
1. Unpack the console and check that voltage is proper. Use 110v for 110-120v 60Hz voltages, and the 220v for 220-250v 50Hz voltages. For alternative voltages (220V- 250V), confirm that the type of plug cap is correct for the country of usage and carries the proper certification markings. Correct cord is shipped with the console.
2. Attach the remote power cord to the back of the console and plug into a grounded electrical receptacle.
3. Connect the motor to the receptacle on the lower front panel of the console.
4. Attach the appropriate "E-Type" handpiece to the motor.
5. Attach the supplied foot control to the connector on the back of the unit marked "Foot Switch". An On/Off type or a variable speed type foot control may be used.



1. **Power Switch** - Controls power on/off to console. When turned on, console should light up.
2. **RPM** - Controls speed of motor and handpiece. Push the up arrow to increase speed and the down arrow to decrease speed. A visual display shows actual RPM. Ratio selector must match exactly the ratio of the handpiece being used for complete accuracy. All settings are held in memory even after unit is turned off.
3. **Forward/Reverse** - Determines the rotation of the motor and handpiece. A red L.E.D. light and audible beeper indicate the reverse rotation.
4. **Ratio Selector** - Calibrates the RPM display to read accurately for up to four different handpiece ratios. Push the ratio up/down arrow until the indicator light matches the handpiece ratio you are using. Different handpiece ratios are required to obtain high torque, low speeds used in surgery. The speed ranges with a 30K motor are shown at right.

SPEED RANGES: AEU-17BEA

1:1	4,000 - 30,000	RPM
1:4	1,000 - 7,500	RPM
1:16	130 - 990	RPM
1:1 ENDO	2,000 - 9,900	RPM



After the unit has been set up and you have made yourself familiar with the operation functions, you are ready for operation as follows:

1. Turn the power switch on the lower left front of the console to the 'ON' position. The front panel display will light.
2. Attach a sterile handpiece to the motor and set the Ratio Selector to match the gear ratio of the handpiece being used (i.e. 1:16 for a 1:16 handpiece, or 1:4 for a 1:4 handpiece).
3. Adjust the up/down arrows on the RPM display to the desired operating speed on the RPM readout.

NOTE: The RPM display indicates true bur speed when the Ratio Selector is in the appropriate position. Make sure the Ratio Indicator matches the handpiece ratio for display accuracy.

CONSOLE- The exterior of the console may be cleaned by wiping with a soft cloth moistened with mild detergent or disinfecting solution.

HANDPIECES- Thorough cleaning and lubrication of handpieces after each use and before sterilization is very important to ensure proper operation and service life of the handpiece. Follow the instructions provided with the handpiece purchased for complete maintenance instructions.

MOTORS- The entire motor assembly supplied with your unit may be sterilized by autoclave, chemclave, or ethylene oxide gas processes. Follow the sterilizer manufacturer's recommended procedure.

Before autoclaving the motor and cord assembly the 'E' type coupling on the motor must be plugged. A plug with sealing o-ring is supplied with the motor. Remove the handpiece from the motor and install plug as shown at lower right.

The included motor/handpiece holding cradle is also fully autoclavable.

WARNING

- *DO NOT* attempt to disassemble the motor or motor connector.
- *DO NOT* oil or lubricate the motor.
- *DO NOT* attach a handpiece to the motor while the motor is running.
- *DO NOT* bend motor cord sharply.

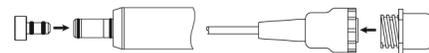
Failure to comply with any of the above instructions may void your warranty.

CAUTION FOR ALL STERILIZATION:

- Do not exceed 133° C or 275° F.
- Do not submerge in any solutions.
- Do not use ultrasonic cleaners.



- Always install the autoclaving plug into motor and motor connector before autoclaving.



Turn black connector ring only.

- If the autoclaving plug for the motor becomes difficult to remove or install, apply silicone grease or similar lubricant to the o-rings.
- Loosely coil the motor cord when autoclaving. Avoid crowding the motor when autoclaving.

<i>Problem</i>	<i>Correction</i>
<p>Console does not light when turned on.</p>	<p>Check console to power connection. Check that voltage selector is set for the proper voltage. Check fuse. If blown, replace with 1A/250V slo-blo fuse for 110 volts, & 0.5 A/250V slo-blo fuse for 220 volts.</p>
<p>Console lights when turned on, but handpiece does not turn.</p>	<p>Check motor plug connection. Check foot switch connection. Depress foot switch. Increase RPM. Check that a bur is properly seated in the handpiece and the collet is closed.</p>
<p>Improper display.</p>	<p>Turn power switch off, wait 5 seconds, then turn back on to reset.</p>
<p>Motor slowing down or sluggish.</p>	<p>Handpiece (contra angle) being over oiled. Lubricant is running into motor. After lubricating, set handpiece with head down to let excess lubricant drain out.</p>

Aseptico warrants this product against defects in material or workmanship for a period of one year, from date of original invoice. Handpieces are warranted for 90 days under the same conditions. Expendable components such as light bulbs, are covered by shorter warranty periods, or are not warranted. Aseptico's sole obligation under product warranty is (at its sole option and discretion) to repair or replace any defective component or product in part or whole. Aseptico shall be the sole arbiter of such action.

In the event of alleged defect under warranty, the purchaser is to notify Aseptico's Customer Service Department promptly. Customer Service will provide instructions, usually directing that the product be returned for service. Shipment to Aseptico and the cost thereof is always the responsibility of the purchaser.

Accidental misuse, inappropriate installation, or failure to perform directed maintenance voids the warranty.

Aseptico does not assume, under this warranty, any risks or liabilities arising from the clinical use of its products, whether or not such use involves coincidental utilization of products manufactured by others.

Aseptico makes no warranty other than that stated above, express or implied.

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