BIPOLAR CAOGULATOR

Operator's Manual

SAFETY

- To prevent electric shock and/or damage to the unit, be sure to plug the instrument into a grounded (proper fitted) outlet.
- Do not overload your AC outlet.
- Do not use a damaged cord, plug or socket. Electric shock or fire hazard may result. Call service engineer for a replacement.
- Do not connect or disconnect the power cord or electrode probe while the power is on.
- Always replace fuses with the same type and rating. Failure to do so may cause fire hazard.
- Do not use accessories that are not designed for the instrument. Use only recommended parts.
- Although the BI-POLAR COAGULATION is designed for continuous operation, it should be turned off if it is not being used for an extended period.
- This instrument is not anesthetic-proof. Do not uses in the presence of flammable anesthetic since this may create a risk of fire/explosion.

BI-POLAR COAGULATION

This manual contains information necessary for understanding the BI-POLAR COAGULATION, provides a general description of the instrument, its applications and specifications. The unit provides a fine regulation from 0 to 9. This wide choice and the regulation of the emission permit simple and sure application. The unit has a wide range of electrodes (bipolar coagulation forceps and eraser). The unit has been designed especially for sophisticated electronic and electrical components to ensure reliable quality, compact size and easy serviceability.

UNIT SET-UP

1. Attach the MAIN 110V/220V AC cord into an appropriate power outlet.
2. Attach the Foot switch on back panel.
3. Attach the forceps or eraser to probe.
4. Attach the probe to Output socket on front panel.
5. Now switch on the Main switch on front panel.
6. Set buzzer sound as per requirement through knob on back panel.

When the main switch is turned ON the red light will glow in switch and the intensity display also turned on with intensity display. **Take a time to familiarize yourself with instrument.**

FIGURE 1 SETUP OF UNIT FRONT VIEW

FIGURE 2 SETUP OF UNIT REAR VIEW

FAMILIARIZATION WITH INSTRUMENT

FRONT PANEL

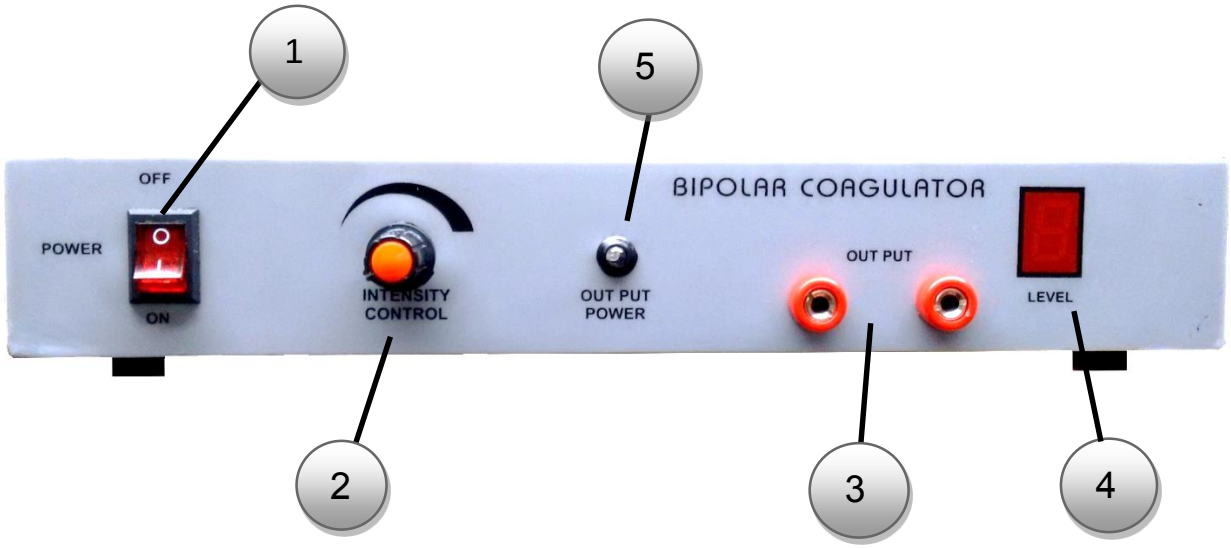

FIGURE 3 FRONT PANEL CONTROLS

1. **MAIN:** when the MAIN 110V/220V ├ AC power cord is plugged into supply socket and fuse is intact into fuse socket; the red light will glow into switch to indicate that supply is provided to the unit.
2. **INTENSITY CONTROL:** this knob is used to vary the power level of output into ten steps '0-9'; by rotating the knob clockwise direction the power level will increase and rotating the knob into anti-clockwise direction will decrease the power level at OUTPUT socket respectively.
3. **OUTPUT:** this is the output socket into which the electrode is connected through the probe for surgical operations.
4. **INTENSITY:** intensity display indicates the values from 0-9, which indicates the output power level. It is functioned through INTENSITY CONTROL knob.
5. **INDICATOR:** for power ON indication at output.

BACK PANEL

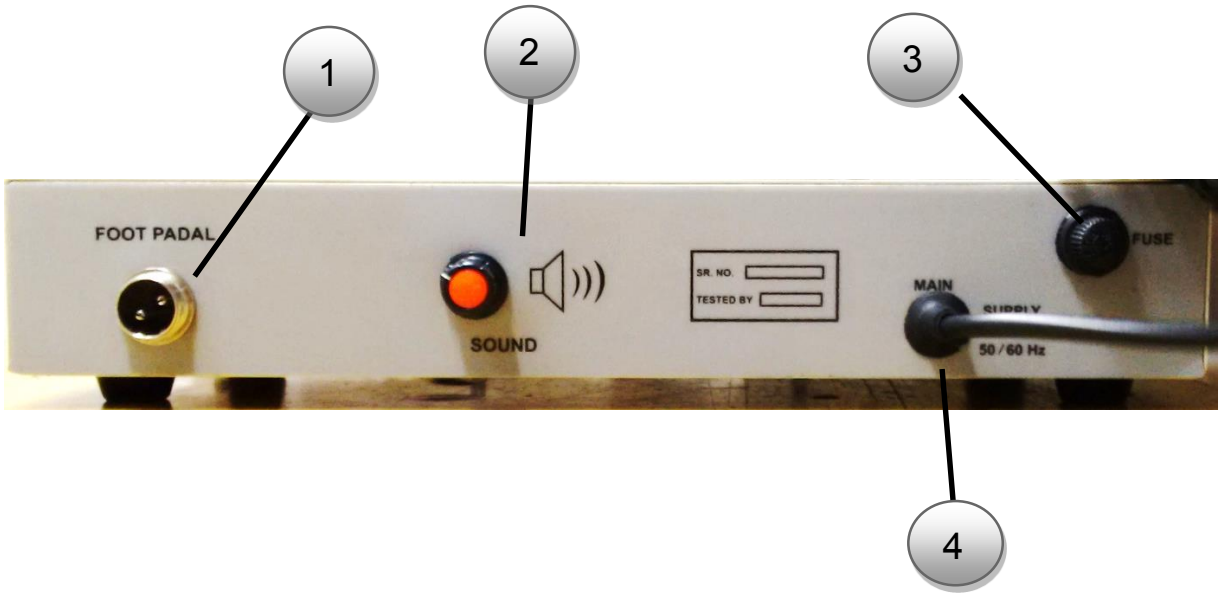

FIGURE 4 BACK PANEL CONTROLS

1. **FOOT PEDAL:** foot pedal socket is used to connect the foot pedal to unit through foot pedal cord.
2. **SOUND CONTROL:** used to vary the sound intensity level by rotating the knob.
3. **FUSE:** fuse socket is used to insert the fuse into unit form making it operational.
4. **MAIN 110V-220V SMPS AC:** main 110V-220V ├ ac cord is the supply cord for the unit unless this is not attached to the power supply the unit cannot switched ON.

TECHNICAL DETAILS AND OPERATING HINTS (IMPORTANT)

1. Do not operate with any inflammable article.
2. Use latex gloves but they need not be sterilized.
3. Operate from lower level and slowly increase the intensity to the required level. However, after doing some cases, the physician/surgeon can decide the correct intensity of power level by trial and error method only, to achieve the full efficiency of the machine and treatment result.
4. Wet the surface of the warts by saline water or any clean water as this will give comfort to the patient and also help you execute the incision and excision quickly with great success, because a wet lesion will conduct electrons freely.

Very important: after every application please note that the electrode tip will become carbonized. This carbon deposit must be removed immediately before next attempts; otherwise, carbon deposits will reduce the output.

Bi-Polar Technical Specifications

- **Mains Input:** 110-220V 50-60Hz SMPS BASED
- **Display:** 7 segments

  Output Led indicator.
- **Controls:**

  Intensity control

  Sound control

  Power NO/OFF Switch
- **Size:** approx.

  Height: 50 mm

  Width: 282 mm

  Depth: 155 mm
- **Weight:** approx. 1.5 kg with packing ; 1 kg without packing

Standard Accessories

- Bipolar coagulation forceps straight (FC-S)
- Single pedal foot switch with cord (BC-FPS)
- Electrode probe.(BC-EP)
- Caring bag. (BC-CB)

Optional Accessories

- Bipolar coagulation forceps curved(FC-C)
- Bipolar coagulation Eraser (BC-E)

Various Accessories and Parts Code

BC-E FC-S FC-C

BC-EP

BC-FPS

BC-CB