Title: Erbe ICC Bipolar	Date: 2-10-2013
By: Erbe	DISCLAIMER: THIS PROCEDURE PROVIDED "AS IS" AND WITH
File = Erbe-ICC-BP.doc	POSSIBLE FAULTS. USER MUST VERIFY BEFORE USE. NEITHER PROVIDER NOR WEBSITE ASSUMES ANY RESPONSIBILITY FOR ITS USE.

- 1. General Applies to model "ICC BIPOLAR" Specifications: See Appendix
- Reference Documents Erbotom Operating Instructions. Erbotom Service Manual (includes models ICC 50 and 80)
- 3. Tools / Fixtures / Accessories
  - Electrosurgical Analyzer: ex: Dempsey 443 or better.
  - Bipolar Cable/Forceps (optional).
  - Safety Tester



- 4.1. Initial Inspection Check unit for any damage; i.e. connectors, power cord, the footswitch and its cable.
- 4.2. With no accessories plugged in, turn on unit. Verify that all segments of the displays briefly illuminate, along with several test tones.
- 4.3. Setup

Connect analyzer to ESU using a banana plug test leads. Before activating the unit, check that the up and down buttons can control each display between 0 (---) and 50 without noticeable contact bounce.

*Note: The analyzer that is shown has load settings of only 500 and 125 ohms. Refer to load curves in Appendix for reference.* 

4.4. Cut Mode

Set the analyzer to 500 ohm load. When pressing the cut pedal, output power should easily track the cut display from 1 to 50 for either EFF1 or EFF2 selection.

4.5. Coag Mode

Set analyzer load to 500 ohms; Coag mode to EFF2. Using the footswitch, key the unit and note the distinct audible tone. Gradually turn power to max dial and note power into analyzer. Refer to charts in appendix for acceptable results, which depend on load.

4.6. Other Safety Checks

Using the safety tester, check that line leakage with ground open is less than 50 uA. Using the safety tester, check that ground lead resistance is less than 0.15 ohms. Resistance between case and either bipolar output contact: >10 megohms.



DEMPSEY 443 ANALYZER







Erbe ICC Bipolar Specifications		
Bipolar	Cut, coagulate (both with 2 effect	
	modes)	
Max. energy output ( at rated ohms)	Up to 50 Watt	
Max voltage, vp-p	380 effect 1; 1,600 effect 2	
WEIGHT, kg (lb)	2.8 (6.2)	
GENERATOR	Solid-state	
Frequency, Khz	350	
Visual	Yes	
Audible	4 tones	
Volume control	Yes	
Line Voltage	110/120/230/240	
COOLING SYSTEM	Convection	
OTHER SPECIFICATIONS	Low constant voltage; automatic	
	power adjustment; defined bipolar	
	sine wave. Meets requirements of	
	AAMI, HF 18, CSA, EN 46001, IEC	
	60601-1 and 60601-2-2, ISO	
	9001,SEV, and UL.	



