

## Instructions Guide for G3 WorkStation Procedure Setup



# G3 WORKSTATION

The G3 WorkStation provides precise delivery and control of PK Technology for head and neck surgical procedures. In addition to PlasmaCision, the G3 supports TCRFTM (Temperature-Controlled Radio Frequency) for the Somnoplasty procedures. As a result, one technology platform can be used for a growing variety of surgical procedures, providing enhanced value and versatility, now and in the future.



- 1 Return Electrode Connection
- 2 TCRF Handpiece Cable Connection
- 3 TCRF Set Target Temperature/  
PlasmaCision, PlasmaBlend Settings
- 4 Standby/Power Button
- 5 Mode/ Menu
- 6 TCRF Set Target
- 7 PlasmaCision Handpiece Connection

# PROCEDURE SETUP GUIDE

---

## Using Temperature Controlled Radio Frequency (TCRF)

### Initial Setup:

- A** Connect the power cord and footswitch on the rear panel of the WorkStation.
- B** Turn the machine on at the back of the unit.
- C** Press the Stand-By button on the center of the front panel (the “apple” switch).
- D** Place the grounding pad on the patient and connect the cord to the front of the controller.
- E** CAREFULLY connect the handpiece (Green or Gray) cable to the front of the controller (Use the green cable for turbinate, tonsil, and dual-channel tongue-base and the gray cable for palate and single-channel tongue base).
- F** Set the temperature using arrows on the left side of the controller.
- G** Set the Joules using arrows on the right side of the controller.
- H** See the charts below for temperature and Joules settings for each procedure.

### Rapid Lesion Mode:

- A** Press the temperature arrow until 85°C is reached.
- B** Release and press once more to reach the RAPID LESION menu.
- C** The temperature is now set for rapid lesion.
- D** Maximum Joule output for single channel instruments using rapid lesion is 300.
- E** Maximum Joule output for dual channel instruments using rapid lesion is 600.
- F** Do not use rapid lesion for palate reduction.

### Begin Treatment:

**A** Press and release the BLUE foot pedal OR press the MODE button (located in the center of the controller with a round arrow) ONCE (This will set the system to RF SENSING OFF).

**B** Press and release the BLUE foot pedal OR press the Mode button a second time. (This will set the system to RF SENSING ON, Impedance values are recognized here).

**C** Press and release the BLUE foot pedal OR press the Mode button a third time. (This initiates the energy delivery sequence).

- Pause: Press the BLUE foot pedal
- Restart: Press BLUE foot pedal once more

### Reset and Additional treatment:

**A** After each completed lesion, press the BLACK mode foot pedal once to reset the system to RF SENSING OFF.

**B** Press and release the BLUE foot pedal will set the system to RF SENSING ON (Impedance values are recognized).

**C** Press the BLUE foot pedal once more to initiate energy delivery to the additional site.

**D** Audible tone is recognized every 50 Joules.

### Settings using TCRF for turbinate:

- Temperature: 85°C
  - Joules: 350-500
- Rapid lesion mode:
- Temperature: Set to Rapid Lesion Mode
  - Joules: Single channel instruments: 300 peak
  - Impedance: 110 - 160 OHMS

### **Settings using TCRF for palate reduction:**

- Temperature: 85°C
- Joules: 600 to 750 for midline lesion
- Joules: 300 to 350 for lateral lesions
- Impedance: 110 - 160 OHMS

IMPORTANT NOTE: Rapid Lesion is not recommended for soft palate.

### **Settings using TCRF for base of tongue:**

- Temperature: 85°C
  - Joules: Single channel instrument: 600 - 750 per site
  - Joules: Dual channel instrument: 1200 - 1500 per site
- Rapid lesion mode:**
- Temperature: Set to Rapid Lesion Mode
  - Joules: Single channel instruments: 300 peak
  - Impedance: 110 - 160 OHMS

### **Settings using TCRF for base of tongue:**

- Temperature: 85°C
  - Joules: 800 - 1000
- Rapid lesion mode:**
- Temperature: Set to Rapid Lesion Mode
  - Joules: Dual channel instrument: 600 peak
  - Impedance: SETTINGS USING TCRF FOR BASE OF TONGUE: 120 - 170 OHMS

---

## Using Plasmacision

---

### Initial Setup:

- A** Connect the power cord and footswitch on the rear panel of the WorkStation.
- B** Turn the machine on at the back of the unit.
- C** Press the Stand-By button on the center of the front panel (the “apple” switch).
- D** Connect the PlasmaKnife cable to the purple “PC” plug on at the far right side of the G3 WorkStation.
- E** The WorkStation will automatically identify the PlasmaKnife and set the appropriate default PlasmaBlend setting.
- F** To change the PlasmaBlend CUT/COAG ratio, press the BLACK mode foot pedal for 1 second until a beep is heard.
- G** Press the YELLOW pedal to increase the cut component in 5% increments, or the BLUE pedal to increase the COAG component in 5% increments.
- H** Press the BLACK mode foot pedal to select the new PlasmaBlend ratio.
- I** Alternatively, use the “up/down” PlasmaBlend buttons on the left side of G3 WorkStation to adjust the CUT/COAG to desired settings.
- J** Press YELLOW pedal for PlasmaBlend CUT output.
- K** Press BLUE pedal for COAG output.

## Cleaning the cutting surface:

- Keep the PlasmaKnife clean for optimum performance.
- Wipe the instrument tip frequently with a wet 4 x 4 gauze.
- Periodic dipping in a container of saline may help to keep the suction channel patent.
- If the WorkStation gives a “clean tip” message; clean the instrument tip and reset the WorkStation by pressing the BLACK mode foot pedal.

## Ordering Information

Cat. No.	Description
EG70353001	G3 WorkStation
EG70353002	Footswitch for G3 WorkStation
EG720100901	Powercord USA
EG70353003	Tonsil PlasmaKnife (4-pack)
EG70353005	Dissector PlasmaKnife (4-pack)
EG70353006	jPlasmaKnife (5-pack)
EG1120411005	TCRF Turbinate Handpiece (5-pack)
EG1010211005	TCRF Palate Handpiece (5-pack)
EG2220221005	TCRF Dual Channel Tongue Base Handpiece (5-pack)
EG1200211005	TCRF Single Channel Tongue Base Handpiece (5-pack)
EG2420132805	TCRF Tonsil Handpiece (5-pack)
EG7201013	RC2 Cable for 1010 and 1200 (20 reuses)
EG7201017	RC20 Cable for 1120, 2220 and 2420 (20 reuses)
EG7201010	Bending Tool
EG7201001	Return Electrode (5-pack)

Specifications, design and accessories are subject to change without any notice or obligation on the part of the manufacturer.

**OLYMPUS**

**OLYMPUS EUROPA HOLDING GMBH**

Postbox 10 49 08  
20034 Hamburg, Germany  
[www.olympus-europa.com](http://www.olympus-europa.com)

E0499049 - 3.000 - 03/10 - e7