

## MacroStim Interface (MSI)



### User Guide

L011-33 (Rev. B1, May 2012)

#### MacroStim Interface 66-EL-MI

Compatible for use with Medtronic Leadpoint and Leadpoint Electrode Cable (9013C050263 or 9013C0501)

#### MacroStim Interface for Axon 66-EL-MI-AX

For use with Guideline 3000A Stimulator

#### Required for use:

MicroTargeting™ Differential Recording Electrode, mTDxxx(xx)

USA

**Rx Only** Federal law in the USA restricts the sale, distribution or use of these products to, by or on the order of a licensed medical practitioner.

**FHC**

*"Innovation through collaboration"*



FHC, Inc.  
1201 Main Street  
Bowdoin, ME 04287 USA  
Fax: +1-207-666-8292  
E-mail: fhcinc@fh-co.com  
www.fh-co.com



24 Hour Technical Service:  
1-800-326-2905 (US & Canada)  
+1-207-666-8190



FHC Europe  
(TERMOBIT PROD srl)  
42A Barbu Vacarescu Str,  
3rd Fl  
Bucharest 020281 Sector 2  
Romania

MacroStim Interface (MSI) provides an easy and safe interface for Macro Stimulation

- Compatible to all medical grade stimulation generators with use of universal adapter
- For use with FHC's microTargeting™ Differential Recording Electrodes

---

#### SAFETY INFORMATION:

##### **Intended Use and Handling:**

Do not use device if there is any evidence of damage. Intended use is within operating room by approved personnel in approved manner. Do not force the insertion of the wires or plugs into receptacles.

##### **Precautions:**

The microTargeting™ MacroStim Interface is intended for use with microTargeting™ Differential Electrodes. The use of other electrodes is not recommended. The use of medically approved stimulators is strongly recommended.

##### **Warnings:**

Do not exceed recommended stimulus parameters from the manufacturer of the stimulator. This product is to be used with the Macro contact on the microTargeting™ Differential Electrode. Connection to the wrong contact could cause damage to the electrode and harm the patient.

##### **Storage Precautions:**



Store at normal room temperatures.

---

#### STERILITY INFORMATION:



This unit is NON STERILE and is to be used in the operating room outside the sterile field in conjunction with a stimulus generator. Do not sterilize.



Do not submerge in water. Clean with a damp cloth.

---

#### ASSEMBLY / INSTALLATION / CHECKOUT:

There is no mounting or calibration required for the MSI. The power connection is only compatible with CCV device with proper adapters. FHC performs initial functional checkout during assembly of the MSI.

#### Instructions for Use

##### **For Axon Users**

1. Unplug the Patient Leads from the Head stage.
2. Remove the Ground connection from the Cannula.
3. Move the Red Clip from the Micro connection to the Macro connection on the side of the electrode. Leave the Black clip on the Cannula.
4. Retract the micro contact into the microTargeting™ electrode.
5. Advance the electrode the distance of its reach. This puts the macro tip at the point where stimulation testing is to be done. (If standard Electrodes are being used the distance is 10mm.)
6. Plug the Patient leads into the MacroStim Interface (MSI).
7. With the Medtronic screener plug the 0.1" mono plug in to the top jack. The electrode setting on the Medtronic Screener is as follows: 0 = + and 1 = -.
8. Set the stimulation source not to exceed the specifications given by the manufacturer of the device.
9. Stimulate to test for side effects.
10. If more recording is to be done, reconnect the patient leads to their initial configuration and plug the cable back into the Headstage. Reconnect the ground cable to the cannula. Bring the drive back up the distance of the reach and extend the micro tip, then continue with recording.
11. When a final location for placement has been found remove the microTargeting™ electrode. Retract the drive the distance that was driven. Install the DBS electrode or lesion electrode.

##### **For Leadpoint Users**

1. Unplug the electrode cable from the amplifier (Leadpoint).
2. Retract the micro contact into the microTargeting™ electrode.
3. Advance the electrode the distance of its reach. This puts the macro tip at the point where stimulation testing is to be done. (If standard Electrodes are being used the distance is 10mm.)
4. Plug the electrode cable into the MacroStim Interface (MSI).
5. With the Medtronic screener plug the 0.1" mono plug in to the top jack. The electrode setting on the Medtronic Screener is as follows: 0 = + and 1 = -.
6. Set the stimulation source not to exceed the specifications given by the manufacturer of the device.
7. Stimulate to test for side effects.
8. If more recording is to be done, reconnect the electrode cable to the amplifier. Bring the drive back up the distance of the reach and extend the micro tip, then continue with recording.
9. When a final location for placement has been found remove the microTargeting™ electrode. Retract the drive the distance that was driven. Install the DBS electrode or lesion electrode.

#### WARRANTY / POLICIES:

All FHC products are unconditionally guaranteed against defects in workmanship for one year from date of shipment conditional upon normal and proper use. Please contact our Service Department before attempting any repairs, functional checkouts, or alterations, or for information regarding our trade-up policy.