

Custom Series 75

Calibration Guide for the Bargraph Meters [N4574, Rev E]

Estimated Time For Installation:

up to 2 hours

Tools required

- Pozi 1 or Phillips 1 screw driver
- A dBm meter with probes (a professional digital multimeters with dBm scale will suffice)
- Phillips 0 screw driver

Note:

these pictures were taken on a factory test console there is no need to remove any timber while following this guide.

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Part 1: Removing the “Master Acrylic”

1. Remove the 4 screws holding the “Master Acrylic” indicated in **[Fig 1]**



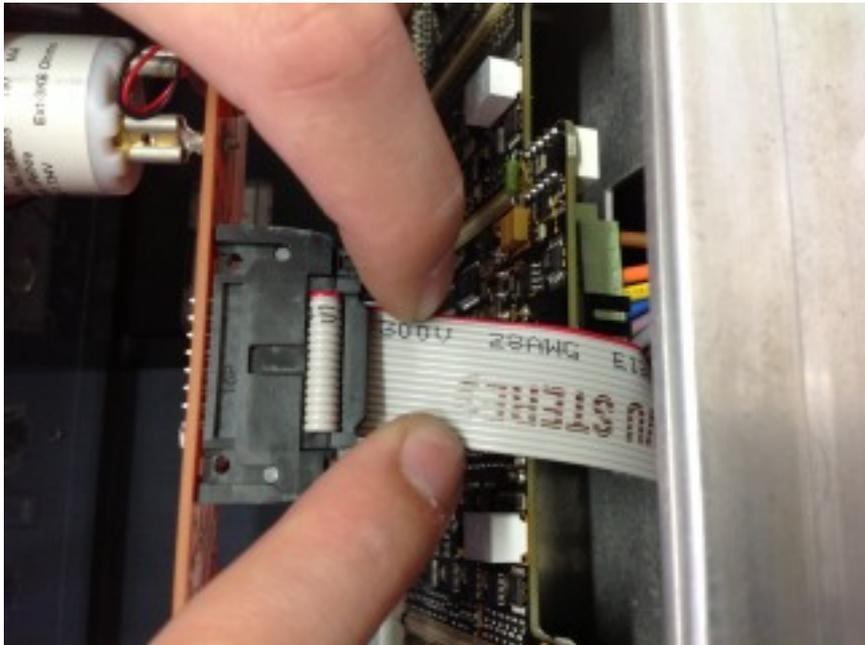
[Fig 1]

2. Hold the “Master Acrylic” by the VU meters **[Fig 2]** and angle upward and gently pull forward. Take care doing this as its possible that wires can get caught and excessive force can damage the assembly.



[Fig 2]

3. Once the “Master Acrylic” has been brought forward and the 16way ribbon header is visible, remove the ribbon by applying equal force on each “ear” of the header **[Fig 3]**



[Fig 3]

4. Place “Master Acrylic” off to the side and power up the console.

Part 2: Setting up correct Oscillator Value

1. Turn on the bar-graph internal oscillator as shown in [Fig 4]:

a. First, press and hold the ‘blank’ button [bottom right in the ‘console mode’ section].

b. While holding the ‘blank’ button, press the ‘VU / Peak’ button [top right in ‘channel meter’ section].

2. The bar-graphs should display a quick message that osc is on. Once the oscillator is on, the bar-graphs should have signal of equal level on all segments [Fig 5]

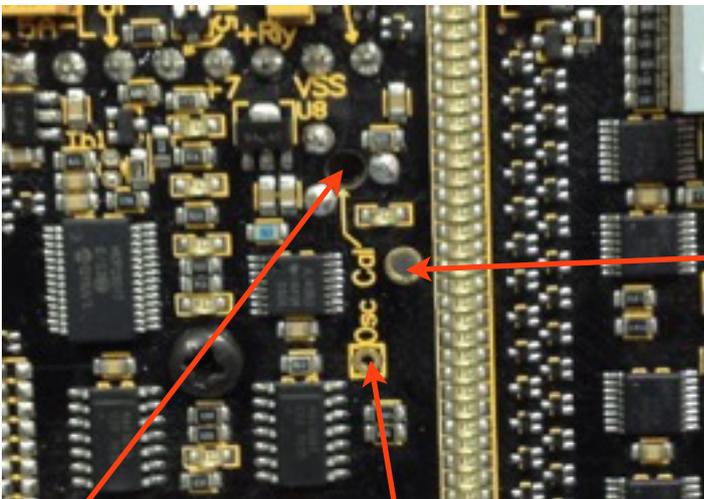


[Fig 4]



[Fig 5]

2. Set your meter to dBm and carefully probe “Test Point 1” with the positive probe and “0V/Ground” with the negative probe as noted in [Fig 6] and shown in [Fig 7]

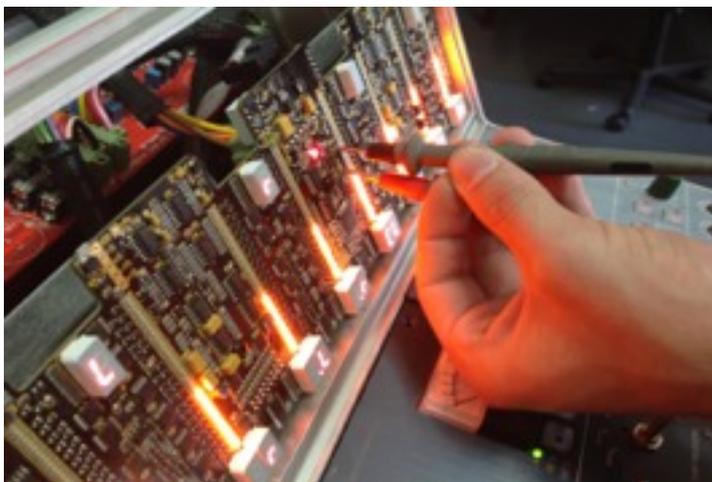


[Fig 6]

Ocs Cal

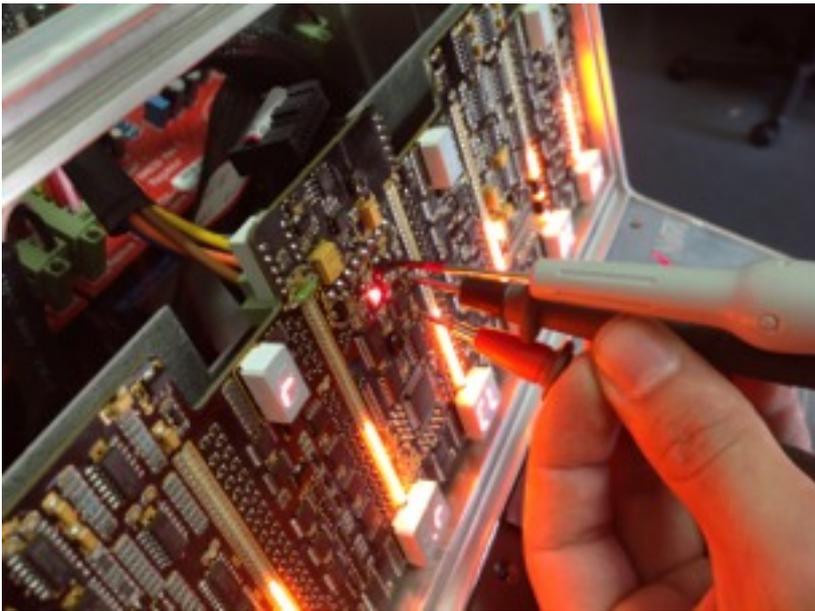
Test Point 1

0V/Ground



[Fig 7]

3. This step may require the help of another person. With the probes still connected use the Phillips 0 screw driver to adjust the Ocs Cal to -14 dBm. **[Fig 8]**



[Fig 8]

4. To store the new calibration press and hold the “Blank” button as well as pressing “-6dB” the Bar-graphs, you should hear the relay make a sound to indicate it has been stored. After the calibration has been stored the level on the meters will disappear but you will still need to turn the bar-graph internal oscillator off by pressing and holding the “Blank” button and “VU Peak” button. **[Fig 9]**



[Fig 9]

Your bar-graphs are now calibrated correctly.

Note: Repeat the procedure for all console bins that require re-calibration