52F50 Calibration procedure – Rev 2

Initial settings:

Set the controls as follows;

Toggle switch – SYS to out (UP)
Toggle switch – COMP to out (UP)
Toggle switch – HPF to out (UP)
Toggle switch – Meter to G/R (MIDDLE)
Gain Make-Up – 0 (Fully Counter-Clockwise)
Recovery – 400mS (4 clicks up)
Threshold – 0dB (7 clicks up)
Ratio – 1.5:1 (Fully Counter-Clockwise)

Bias Trimmer – Turn Fully Counter-Clockwise with small screwdriver

Mechanical Meter Zero:

Place the module on a flat level surface. With a large flat blade screwdriver, adjust the meter screw (plastic screw visible through the metalwork on the side of the meter).

Adjust the screw so that the top edge of the meter needle is exactly below the "minus sign" of the -20 on the scale.

Power the module up on the bench supply (+/-16v):

The current draw should be less than 100mA

If your power supply does not indicate current, you can measure the voltage across the 1 Ohm resistor R156 (near the voltage regulator on the right hand PCB).

Slowly turn the Bias trimmer clockwise until the current reaches 130mA
[or 130mV across R156]

Adjust gain and IO Metering:

Toggle switch – SYS to In (DOWN)

Apply 0dBu signal to input (775mV RMS Sinewave)

Measure Output and adjust "Gain Trim" trimmer to give 0dBu Output (775mV RMS)

Toggle switch – Meter to In (LEFT)

Adjust "Meter in" trimmer until needle reads "0" on white scale (Middle of scale)

Toggle switch – Meter to Out (Right)

Adjust "Meter out" trimmer until needle reads "0" on white scale (Middle of scale)

Toggle switch – Meter to G/R (MIDDLE)

Meter should fall to bottom of scale

Compression level:

Toggle switch – COMP to Fast (DOWN)

Adjust "Threshold" trimmer until meter needle just moves from -20 position

[Signal output will drop by 10-20mV]

Apply +12dBu signal to input (3.10V RMS Sinewave)

Ratio – 6:1 (Fully Clockwise)

[Signal output will now be approx. 775mV RMS]]

Adjust "G/R" trimmer until meter needle points to the top of the "12" on the right hand (black) scale.

Threshold – +10 (Fully Clockwise)

Meter should now be between the number "4's"

Output voltage will be approx.. 1.9v RMS