

OPAL MONITOR AMPLIFIER MEASUREMENTS - NOV 9 2019

- * AC in did NOT have earth ground- 2 wire IEC socket
- * monitor serial numbers are consecutive (early Z series)
- * all boards are have same revisions and same components
- * measurements were taken with all stock components and prior to making any adjustments (no adjustments were made)
- * voltage across emitter resistor = bias current
emitter resistor value
- * distortion at crossover was not examined (didnt have scope/ distortion meter)
- * amps were idle, no signal input, output connected load (opal drivers/ speakers)
- * front panel controls in default position
- *amps were on from around 30-45 minutes during tests but heatsinks and output devices stayed very cool to the touch
- *ground wiring : RIGHT (1) single wire from PS board to chassis (at contour board mount)
 - noticeable hiss from tweeter, very slight hum from woofer
 LEFT (2) single wire from PS board to chassis (at contour board mount)
 - tweeter was silent/ no hiss, very slight hum from woofer

RIGHT (1) (across 0.3 ohm resistors)

HF AMP BIAS CURRENT R5 3.3 mA R6 6.6 mA , DC OFFSET 22.0 mV

LF AMP BIAS CURRENT R53 73.3 mA R60 66.6 mA , DC OFFSET 23.0 mV

*across 0.05 ohm emitter resistors

R61 0.0 mA R55 0.0 mA

R56 0.0 mA R 52 0.0 mA

LEFT (2) (across 0.3 ohm resistors)

HF AMP BIAS CURRENT R5 10.0 mA R6 13.3 mA , DC OFFSET 20.0 mV

LF AMP BIAS CURRENT R53 26.6 mA R60 26.6 mA , DC OFFSET 3.0 mV

*across 0.05 ohm emitter resistors

R61 160.0 mA R55 0.0 mA

R56 0.0 mA R 52 120.0 mA