Update 4/28/13

1. Increase resistance of Phantom Iso R — Change R311 from 10K 5/w to 33k 3W

7New Updates as of 04-13-13

1. Corrrect output stage power supply centering — Add 4 18v zener diodes (1N4746A) across C181+C65
2. Change Output DC Servo parts values — Change R21 and R87 to 200k

Change C187 and C16 to u47/50-63v

Change R436 and R437 to 1k0

Change R31 and R33 from 1meg to 255k

3. Hook up missing ground from C114/C152 to CTL_GndX — Add jumper from C116/C133 to C114/C152
4. Change Fan Type to Noctua NF-R8
5. Correct Gain Cell bypass mute delay — Change Q40 from 2n5401 to MPSA77

Replace R205 with two 8k6 resistors

Change C7 from 22n to u47 and move top to midpoing between two 8.k resistors

6. Eliminate redundant parts from output stage PS — Remove C150,R435,C173,R314 (Temp)
7. Correct meter TempCo — Change D79 and D509 from 1N270 to SD101(Low drift Shottkey)

Change D22 from 1N270 to 1N4148

Add 1n5819(High drift shottky in series with R225

Updates and changes to be done to ALL BA-660's

1. Correct Gain Cell Drive: Install 25k pot and 20k0 Resistor From -24v to Cathode constant current driver of V3
2. Correct Output Metering: Change R107 from 4k99 to 4k23/12 ? (Choose by measurement.)
3. Correct Attack Current source gain: Change R284 from 22k1 to 2k21
4. Correct heat sensitivity: Replace D20, D25, D59 with 1n4148
5. Correct Clip light levels: 1st stage-Change R344 and R345 from 11k to 3k24

2nd Stage- Change R402 & R419 from 11k to 4k99

Add missing ground from Q36-3/Q38-2/Q37-2/Q39-2 to C113 minus

6. Verify bias point of 2nd stage@ U15-1 >-22&+22< — Set with R38 249-255
7. Set Insert detect K7 to reliable switch — New: Replace Q2 with 2n5401

Old: Find appropriate value for R56 to reliably turn on Q2 and NOT light LED!

8. Correct GC HF Rolloff — Add 47pf in parallel with R236 and R237
9. Reduce Threshold adjustment drift — Replace D25 with 1n4148
10. HF Roll Off — Add 47pf in parallel with R236 & R237
11. LF Roll Off — Add 100u/63v in parallel with C36 & C37
12. Reduce GC Meter non linearity — Change D79 from 1N270 to 1N4148

Change R278 from 2k4

to 1k3
13. Add GC Meter trim — Replace R225 with 100r0 25 turn pot

OLD UNITS ONLY

0 Remove Humidity induced distortions — CONFORMALLY COAT MOTHER PCB TOP and BOTTOM
1. Improve GR Cathode pullup zener reliability — Replace R160 with 100k 2 watt
2. Reduce GR Noise — Add 1u/35v Tant across Z13
3. Improve tip in adjustment range — Change R6 from 15K to 33k, R453 from 15k to 39k, R18 from 10k to 15k
4. Center Gain Control DC Ranges — Change R270 from 137k to 150k, Change R333 from 10k to 27k
5. Remove OP Balance switch and Replace with Xformer — Remove Sw12, K11 and K12, U1 and Install Jensen JT-11BM in at place of R26 and R32

MUCH older units

16. Improve GR Meter Zero — Add R89, R457, D30, D22 and change R280 to 20k