

Alpha 8410 - Adjusting Tube Operating bias level

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Alpha 8410 - Adjusting G1 and G2 bias levels

(this refers to Tube Bias Levels G1 and G2, not tube grids G1 and G2)

Connect USB port of PC to USB jack on rear of amp.

Plug in amp, turn on and WAIT FOR IT TO COMPLETE WARMUP DELAY before proceeding.

1. Open RealTerm (or Hyperterm) on computer, set to 115200, no parity, 8 bits, 1 stop bit, no flow control.

Enter password #1,123456 (be sure to type the pound and also comma)

2. Type "M" to enter Maintenance functions.

3. Cycle through parameters using "," and "." keys (comma and period) to find "G1"

4. Put amp in Operate and key radio in SSB mode, mic gain all the way down (close PTT switch but no RF drive). Using "<" and ">" keys adjust until reported G1 reading is about **210ma, the last number on each line of text.** Type / to read the bias without adjusting it. UNkey radio when G1 reads 210ma.

NOTE: Many radios can be keyed into transmit with no RF out by selecting CW mode and closing the PTT on microphone, use this method if possible to ensure there is no RF output.

5. Type "Z" to save to EEPROM

6. Cycle to next parameter using "." key to "G2"

7. Again key radio in SSB mode, mic gain all the way down. Type "<" and ">" keys each once to turn on G2 bias level. Using "<" and ">" keys adjust until reported G2 reading is about **210ma, the last number on each line of text.** Type / to read the bias without adjusting it.

UNkey radio when G2 reads 210ma.

8. Type "Z" to save to EEPROM

The adjustment is finished, turn off amplifier, unplug, and restore to normal conditions.

