



Barrett 4050 Technical Data

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Setting up a PA

1. Ensure that all solder pads are open and that the input coax is disconnected
2. Connect the output coax to the power meter and load
3. Connect the exciter (4050 micro-board) and tune to 8MHz.
4. Adjust all bias pots fully counter clockwise to ensure minimum bias
5. PTT and observe the voltage at TP3 sits at 36V +/- 10% and that the transmit current is less than 1A
6. Whilst transmitting measure the current across SP2 via test points TP3 & TP4. Adjust RV1 to give 2.5A through the finals.
7. Whilst transmitting measure the current across SP3 via test points TP1 & TP2. Adjust RV2 and RV4 such that 100mA flows in each transistor Q3 & Q4
8. Power down the PA, close the solder points and connect the RF in from the exciter
9. Power up the PA and wind the audio modulation down
10. Transmit and slowly bring up the audio carefully observing the current is below 20A for 100W
11. Switch through the other PA frequencies and observe that current is always below 20A for 100W