KZ4AK LINEAR OPERATION NOTES

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High gain linear - Beware of overdrive. Amp input has a 6db attenuator.

46 to 48 volt supply to amp, up to about 15 amps.

Power out varies with band. Variations in drive from exciter a possible contributor.

Max power out, driven by Elecraft K2 (8-10 watts) can vary from 200 to >600 watts.

High SWR trip (was last) set at ~ 6:1. Not counting the directional coupler output adjustment pots,

two pots (FOR & REV) on the SWR Protect board set the trip point. The absolute values and the ratio between the signals determine the trip point – set using a known high SWR load. Adjustment is finicky. Make adjustments only at low power from amp.

Max recommended power out = 500 watts. 400 better....

Band switch does NOT track exciter. Manually switched.

Ground PTT input to engage amplifier.

DPMs are not well calibrated...

Volt meter - pretty accurate

Amps - Approximate, based on power out and ~60% effiency

Forward Power - 500 watts put = "34.5"

400 watts out = "30.0"

300 watts out = "26.0"

200 watts out = "20.5"

100 watts out = "14.0"

Reflected power - totally uncalibrated. With a 1:1 SWR, typically 00.0

OPT - Not connected. A future option is PA device temperature sensor, also linked to fan control.