

# TUNE UP INSTRUCTIONS

**PA6-1EE, PA6-1AE, PA6-1AE3, PA6-1BE, PA6-1FE**

Step	Adjust	Function	Instructions
1		Set Idq of Q5, Q4 and Q6 for 1A. each with R35, R16 and R20	Short TP1 and TP2
2	C50	Driver stage input impedance matching.	Adjust for minimum input VSWR.
3	C51	Driver stage output impedance matching.	Adjust for maximum power output and best efficiency.
4	C36,C67	Final stage input impedance matching.	Adjust for optimum performance and amplifier stability.
5	C35,C68	Final stage output impedance matching.	Adjust for maximum power output best efficiency and frequency response flatness.
6	Repeat steps 2-5 (a few times if necessary)	Optimization; Frequency spectrum observation.	Adjust for best performance. Observe an amplified signal and it's frequency spectrum on a spectrum analyzer at all times for any sign of oscillation, spurious emission or high harmonics.