

Transistor PA Biasing

By G8MNY

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(8 Bit ASCII Graphics use code page 437 or 850)

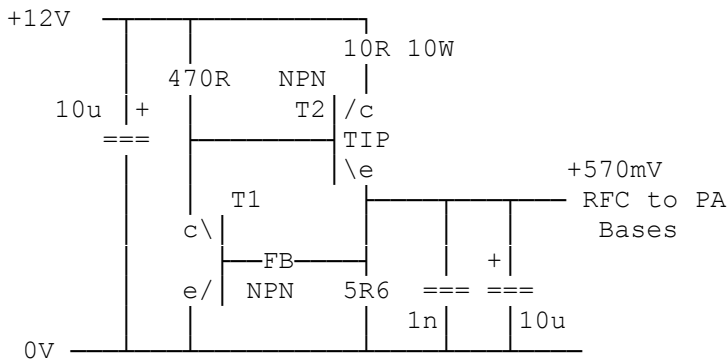
Here is a simple circuit that can deliver the peak base current needed for linear SSB operation, that works very well. It uses 2 TIP type NPN transistors, 3 R's, & suitable RF filtering for the band in use. T1 must be bolted close to the PA devices so that it's emitter base voltage can tracks the PA temperature, the base is protected from RF with a ferrite bead. T2 needs heat sinking so it is also convenient to mount it on close to T1.

Bias adjustment can be done by adjusting the 470R but never change it just for a preset without a safe minimum series R!

The MAX base current, about 1A is available, this is limited by the 10R & should be enough current for a 50W UHF or 100W VHF or 200W HF PA.

PTT

Switched



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73 De John, G8MNY @ GB7CIP