

80185 RF POWER AMPLIFIER

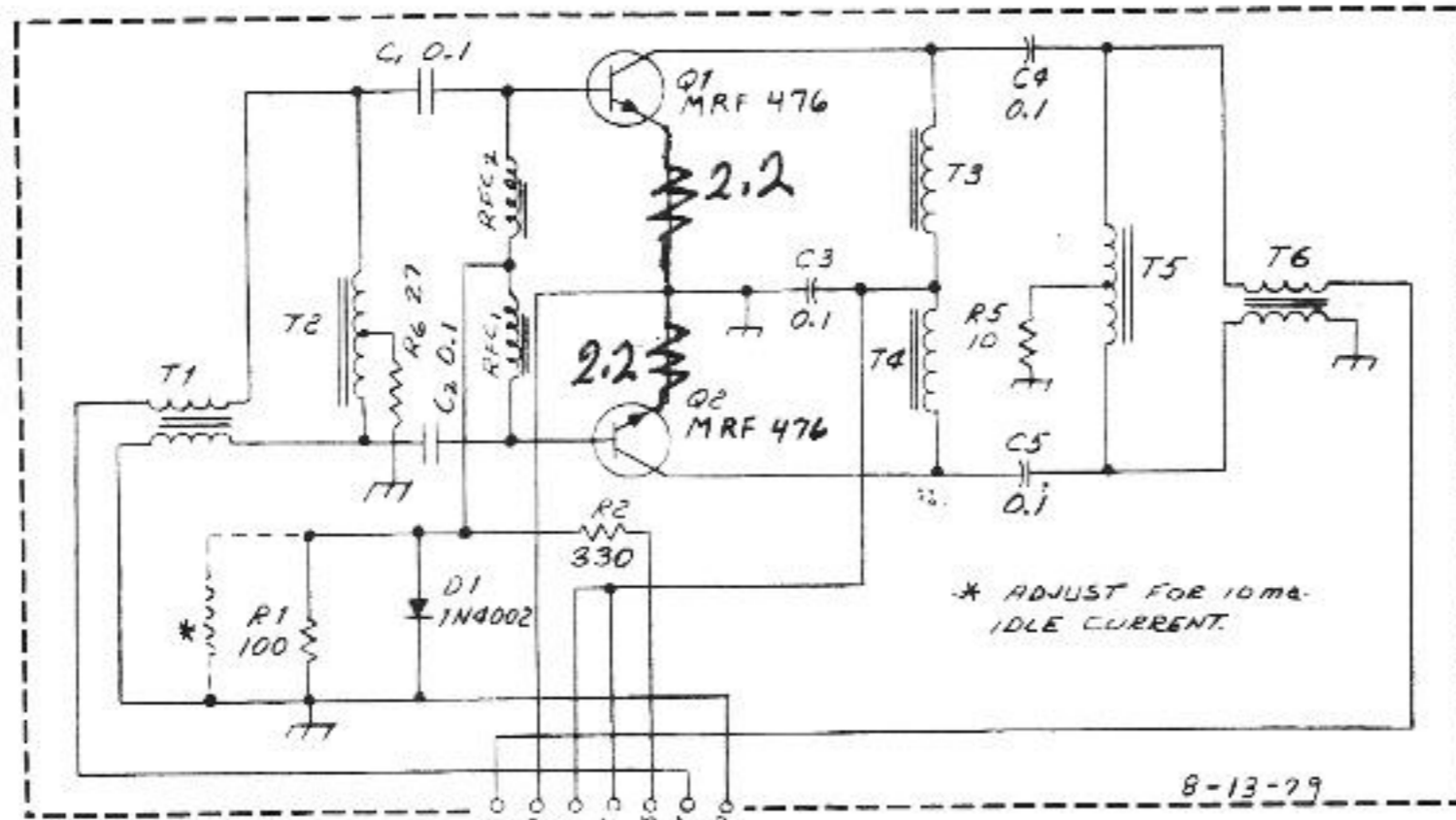
The rf power amplifier is a broadband design, operating over a frequency from 1.5 to 30 MHz. Transformers T1 and T2 form a broadband impedance matching network to transform the low impedance at the bases of Q1 and Q2 to 50 ohms. The supply voltage is fed through two collector chokes, T3 and T4. T5 and T6 transform the output impedance to 50 ohms. The BIAS pin is connected to the T voltage and brings the amplifier into the linear operating condition whenever the transceiver is in the transmit mode.

Pin Voltage Readings - (SB-N, DRIVE fully CCW)

Pin	Transmit	Receive
OUTPUT	0	0
GND	0	0
NC	-	-
+12	13	13
BIAS	11	0.2
INPUT	0	0
GND	0	0

Transistor Voltage Readings  
(LOCK Mode, DRIVE fully CCW)

Transistor	Col.	Base	Emitter
Q1 & Q2	13	0.7	0



T1&T2-16t Bifilar #28 CF102 Q1 matl.  
T3&T4-16t #28 CF102 Q1 matl.  
T5&T6-16t #28 Bifilar CF102 Q1 matl.  
Pins viewed from top of board

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