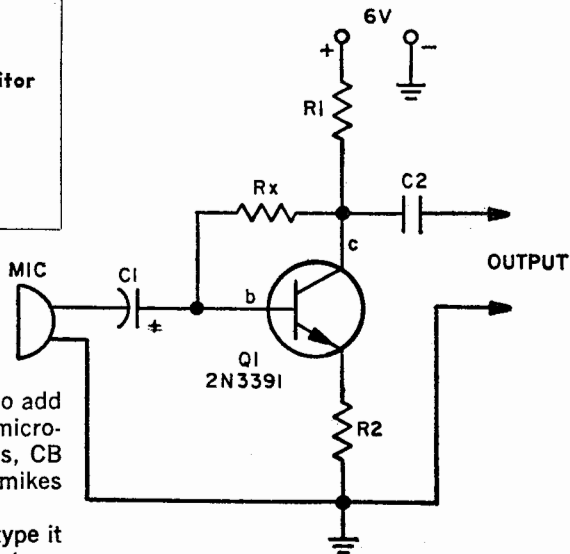


58 Low-Z Mike Preamp

PARTS LIST FOR LOW-Z MIKE PREAMP

- C1**—10- μ F, 15-VDC electrolytic capacitor
C2—0.47- μ F capacitor
Q1—2N3391 npn transistor
R1—10,000-ohm, $\frac{1}{2}$ -watt resistor
R2—15-ohm, $\frac{1}{2}$ -watt resistor
RX—See text



Just a handful of parts is all it takes to add up to 30 db gain for low-impedance microphone inputs found on tape recorders, CB rigs, etc. The circuit is suitable for mikes in the 50- to 1000-ohm range.

Because transistor Q1 is a high-gain type it is very sensitive to slight changes in base bias. Hence, bias resistor Rx must be tail-