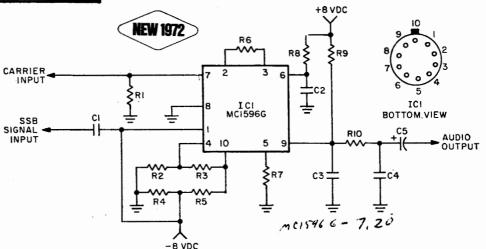
## IC 8 Add-on Product Detector



Many an old receiver is still a good receiver except for SSB reception. With a product detector, your old reliable can deliver good SSB reception on a par with many modern solid-state receivers. This product detector can be easily added to most old receivers; the only critical input requirements are an SSB signal input level of 5 to 500 mV and a carrier (BFO) input level of about 300 mV. The output is the demodulated audio. Best results are obtained from a crystal-controlled

carrier oscillator, rather than a variable

frequency oscillator. A rigid construction

is suggested, either printed circuit or on a

perf-board with push-in terminal con-

nections. The power supply is bi-polar

8 volts, though a bi-polar 9 volt power source can be substituted. Since the current requirement is less than 5 mA, ordinary transistor radio 9 volt batteries can be used as the power source.

## PARTS LIST FOR THE ADD-ON PRODUCT DETECTOR

C1-0.47 uF, 25 VDC Mylar capacitor C2, C3, C4-0.005 uF, 500 VDC cermic disc capacitor C5-1 uF, 10 VDC electrolytic capacitor IC1—Motorola MC1596G R1-51-ohm, 1/2 watt resistor R2, R3, R4, R5, R6, R10-1000-ohm, 1/2 watt resistor R7-6800-ohm, 1/2 watt resistor

R8, R9-3900-ohm, 1/2 watt resistor