



Sideband Adaptor

Manufactured: 59-64

Price: \$89.95

Comments: The earliest references to the SB-10 can be found in some DX-100 manuals, where the unit is referred to as the DX-10. The unit was originally designed to be used with the DX-100 but because of significant delays in engineering the DX-10, it was renamed and restyled to match the TX-1 when work on that transmitter began. As a result the DX-10 never materialized. The SB-10 is a phasing type SSB generator designed to work with the TX-1, but with a simple modification of the transmitter, the SB-10 can be used with the DX-100 and 100B and almost any other similar transmitter. The SB-10 uses nine tubes and is placed in the transmitter's RF path between the driver and the final amplifier. It requires about three watts of drive, delivers about 10 watts of output, and will provide USB, LSB, or DSB—all with or without carrier. It covers 80-10 meters and is broadband in design so that once tuned for a given band it need not be re-adjusted after normal excursions in frequency within that band. The RF phase shifting is accomplished by a set of precision

capacitors in an RC network. A separate set is used for each band. The audio phase shift network is a pre-assembled and wired, sealed plug-in unit made by B & W. Features include a front panel meter indicating relative power output and is used both in tuning and carrier suppression. There is also a built-in VOX circuit. Front panel controls include carrier null controls, bandswitch, mode selector, balanced modulator tuning, RF output tuning, audio gain, and VOX/standby/manual selector. There is also a front panel connector for a high impedance mic. Controls on the rear panel labeled "transmitter sensitivity" and "receiver sensitivity" are for VOX sensitivity and anti-trip. The rear panel also has SO-239 connectors for RF input and output, an octal socket for power input, and screw terminals providing connection for receiver audio, speaker, key, and antenna relay. Since the SB-10 has no internal power supply all voltages must be derived from the

transmitter to which it is connected or some other external source. When used with the TX-1 all necessary power may be taken from the transmitter's accessory socket. Power requirements: 350 VDC at 140 ma and 6.3 VAC at 3.5 amps. The SB-10's two-tone green paint scheme matches the TX-1, et al. Early units were supplied with satin finish metal knobs while later versions used polished knobs. The SB-10 was sold for about five years and works pretty well. SB-10s are becoming quite rare—especially in good, unmodified condition.

Weight/Size: 12 lbs; 6.75" wide x 10" high x 13" deep
Related Products: TX-1, DX-100(B)