

## SBE- 34 SSB TRANCEIVER



Sideband Engineers Model 34 SSB Transceiver

80/40/20/15 Mtrs, 12VDC/110 AC, SSB Transciever Transistor & Tube Radio

Even though there are some transistors and diodes in this radio, it is a true classic. It utilized state-of-the-art technology for it's time, and sported a 2.1 kc Collins Mechanical Filter used both in the detection and generation of the SSB signal.

. The SBE 34 also had a 100 kc crystal calibrator and VOX unit sold as accessories.

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### SPECIFICATIONS

DATE OF FIRST MANUFACTURE- Late 1964 Prior ModelSBE-33

PRICE CLASS- \$400.00

### FREQUENCY RANGE

3775-4025 kc

7050-7300 kc

14.10-14.35 mc

21.20-21.45 mc

### TUBE and SEMICONDUCTOR COMPLIMENT

2- 6GB5 RF Power Amplifier, 1-12DQ7 RF Driver Tubes

23- Transistors, 18- Diodes, 1- Zener Diode, 1- Varactor Diode

### SIZE and WEIGHT

5" High, 11.25" Wide, 10" Deep

20 Pounds

#### TRANSMITTER

POWER INPUT- 135 watts (100 watts on 21mc)

DISTORTION PRODUCTS- Down atleast 25 db

CARRIER SUPPRESSION- -50 db

SIDEBAND SELECTION- Upper or Lower Sideband from front panel

UNWANTED SIDEBAND- Down 40 db min @ 300 cps

ANTENNA IMPEADANCE- 40-100 ohms unbalanced

AUDIO BANDWIDTH- 300-2400 cps @ 6 db

#### RECEIVER

SENSITIVITY- 1 mv for 10 db signal to noise

SELECTIVITY- 2.1 kc @ 6 db, 5.3 kc @ 60 db

SPURIOUS RESPONSES- Images and I-F response down 40 DB minimum

STABILITY- Less than 100 cps drift in any 30 minute period under normal conditions

AUDIO OUTPUT- 2.0 watts @ 10 distortion

TUNING RATE- 14 kc per revolution (slow), 80 kc per revolution (fast)

SPEAKER- 3.2 ohms built in, terminals on rear panel for external

POWER SUPPLY- Built-in 117 VAC/12VDC (Negative ground) dual supply, Cord determines mode.

#### POWER CONSUMPTION

AC Operation- Receive/35 watts, Transmit/165 watts (single tone)

DC Operation- Receive Only/.5 ADC, Receive-Standby/3.6 ADC, Transmit/ 16.5 ADC (single tone)

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#### ACCESSORIES

SB2-LA Linear Amplifier- 1 KW PEP 80-20, 750 PEP 21 mc

SB3-DCP Inverter- 12 VDC to 110 AC 1200 W for SB2-LA

SB2-XC Calibrator- 100 kc marker signal switched at front panel

SB2-MB Mounting Plate- Flat surface, locks with padlock

SB2-VOX Voice Operated Control- Plugs into back panel w/controls

SB1-MIC Microphone- Controlled magnetic type, coiled cord, PL-68

"Codapter"- CW Adapter- Internal VOX, Monitor Speaker, Plugs into microphone jack, Power from SBE-34, Key Terminals on Unit. \$39.95

REVIEWED IN QST- July 1966 Pgs 38-40

#### MAGAZINE ARTICLES

How to Improve your SB-34 Transceiver by Ed Marriner, W6BLZ- CQ April 1967

CW and Extended Coverage for the SBE-34 by Katashi Nose, KH6IJ- CQ 1967?

The SB-34 Transceiver Expanded Coverage and Convenience, John Schultz, W2EEY/1 CQ 9/68

#### SERVICE BULLETINS

SBE Bulletin SBE-6, SBE-33/ General Service Tips: Improved AGC, Microphone amplifier improvements, AC Fuse addition(3AG 3A SB), Power inverter protection.

SBE Bulletin SBE-7, SBE-33/#3- RE: Motorboating Audio, Talk-Back, Replacement of keying transistors Q-16 & Q-17

OPERATION and MAINTENANCE MANUAL- Provided with the SBE-34, covering operation, theory of operation and alignment. (25 pages).

SERVICE MANUAL- A comprehensive service manual was written for the field service and factory service technicians. Printed Circuit X-ray and pictorial diagrams. Schematic diagrams, test and alignment are included.