



Harvey-Wells TBS-50D

1947 AM/CW Amateur Transmitter

GENERAL

The TBS-50D is a versatile general purpose AM Phone/CW transmitter capable of delivering RF power on all 1947 amateur bands from 3.5 to 148 mhz. It may be used with any power supply delivering up to 450 volts DC. The tube filaments may be configured for 6 or 12 volt operation. Dynamotor and vibrator power supplies may be used for mobile operation. An AC power supply is used for fixed station use. Three transmitter models are available, TBS-50B for CW only, the TBS-50C for carbon microphones, the TBS-50D with a built-in, three tube preamplifier for crystal or high impedance dynamic microphones. The TBS-50c/d models supersede the original TBS-50 and 50A, and are improved models.

TECHNICAL CHARACTERISTICS

Size: 13-1/4" High x 9-1/4" Wide x 8-1/2" Deep

Weight: 17 pounds

Power Input: 50 watts HF

Tubes

6AQ5 Oscillator/Multiplier

6AQ5 Multiplier

807 Final Amplifier

6L6(2) Modulators

6AU6 1st Speech Amplifier

6AU6 2nd Speech Amplifier

12AU7 Phase Inverter

Frequencies: 3.5 , 7.0, 14.0, 21.0, 28.0, 50.0, 144.0

Microphone-TBS-50D Crystal or high impedance dynamic at -50 db

Microphone-TBS-50C Carbon 200 ohm

FREQUENCY CONTROL

Crystal- 3.5-14.0= 3.5, 21/28= 7.0, 50.0=5.555, 144= 8.0

VFO (with output in same ranges)

OUTPUT COUPLING

Simplified pi type designed for non-reactive antennas or feeders between 50-500 ohms

3.5 & 7.0 Mhz band require 500-1000mmfd antenna bypass condenser

Use of a balanced Output Antenna Tuner suggested.

POWER JACK: Octal type

MODIFICATIONS

PTT Relay Addition (Power and Antenna)

160 meter Operation

TVI shielding

Antenna Coupling Network/Switch