



The TMC Antenna Tuning Unit, Model TAC-1, was specially designed for operation with the BC-610 Transmitter, but may also be used to match any transmitter whose output is 75 ohms to antenna loads of 50 to 1200 ohms over the frequency range of 2 - 18 Megacycles. The output loads may be either balanced or unbalanced.

All components of the TAC-1 are insulated from each other to withstand any possible high voltage that may occur due to open antennas or improper impedance matching. All switches are insulated to prevent any R. F. on the front panel. Insulated terminals at the rear center of the unit provide the necessary output connections and are spaced to accommodate an open line antenna.

The TAC-1 consists of a continuously variable contact type inductance to match any output load. Switched taps control the loading of the transmitter for obtaining frequency changes. The tuning capacitors are of the split stator type with spacing sufficient to prevent flashover when the unit is unloaded. A front panel switch places the high-voltage vacuum capacitors in parallel with the tuning capacitors so as to increase the capacitance for low frequency operation.

Provision has been made for front panel ammeters to read the antenna current, and to properly balance the antenna load. The unit is a replacement for the BC-939 Antenna Tuner and is mounted in the same manner as the BC-939 Antenna Tuner, which is normally supplied with the BC-610 Transmitter.

TECHNICAL SPECIFICATIONS

Frequency Range	2 - 18 Megacycles*
Input Impedance	75 ohms
Output Impedance	50-1200 ohms, balanced or unbalanced
Output Watts	500
Size	7-1/2" x 9-3/4" x 21-1/4"
Weight	Approximately 35 lbs.
Controls	<ol style="list-style-type: none">1. Coupling2. Bal/Unbal3. Band Switch4. Capacitor5. Antenna Tuning6. Range Switch
Components and Construction	Equipment is manufactured in accordance with JAN specifications wherever practicable.

***NOTE:** Although the Model TAC-1 is designed for operation between 2 and 18 Mcs., it will operate satisfactorily up to approximately 30 Mcs. with some reduction in efficiency.

We reserve the right to make changes in the design of our equipment consistent with good engineering practice in order to make improvements in design and to effect economies in manufacture.

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