

## OPERATING INSTRUCTIONS FOR AMECO TRANSMITTER, MODEL TX-62

IT IS IMPORTANT THAT THIS ENTIRE MANUAL BE READ CAREFULLY BEFORE THE TRANSMITTER IS PLUGGED INTO AN OUTLET AND BEFORE ANY OPERATING IS DONE WITH THE TRANSMITTER.

### SAFETY NOTICE

Voltages of over 600 volts DC are present in the TX-62 when the unit is in operation. THESE VOLTAGES CAN BE DANGEROUS. Occasionally a few tests may have to be made inside the set with the high voltage on. NOTE that this voltage is present, whether the key is up or down. Observe all safety precautions. When it is necessary to make measurements with the power on, use only one hand. Keep the other hand in your pocket. Do not lean on the table or touch any other object.

DO NOT ATTEMPT TO MAKE ANY REPAIRS OR CHANGE TUBES WITH THE POWER ON. Disconnect the plug from the AC line before doing any work inside the transmitter.



### GENERAL INFORMATION

The Ameco Model TX-62 Transmitter is a compact, convenient, easy-to-operate transmitter for the 6 and 2 meter bands. The TX-62 has 75 watts input on CW and 75 watts peak input on phone. It has a built-in AC power supply and modulator. All exciter circuits are broad-band. Only the final plate and loading capacitors have to be tuned. A potentiometer-type drive control is used to set the drive level to the final grid. The final is operated straight through on both bands.

The TX-62 uses the low distortion Ameco DUO-GRID modulation. It is NOT controlled carrier or clamp tube modulation, but a far superior system with quality that cannot be distinguished from push-pull plate modulation, even with an oscilloscope. The percentage of modulation is controlled by an audio gain control on the front panel.

### SPECIFICATIONS

**FREQUENCY COVERAGE:** 50-54 Mc. and 144-148 Mc.

**POWER INPUT TO FINAL:** CW - 75 watts,  
Phone - 75 watts peak

**TUBES AND FUNCTIONS:** 6GK6 - crystal controlled oscillator and tripler, 6GK6 - doubler, 7868 - tripler on 2 meters only, 7984 - final, 12AX7 - audio voltage amplifier and 6GK6 modulator.

**FREQUENCY CONTROL:** Crystal controlled, using expensive 8 Mc. crystals or an external VFO can be used.

**METER** reads final cathode current, final grid current and RF output.

**CONTROLS:** POWER switch; PHONE-CW switch; METER selector switch; VFO-CRYSTAL switch; MIC GAIN control and spot switch; DRIVE control; BAND switch; Final PLATE tuning; LOAD. The jack for the microphone or key and the crystal socket are on the front panel. Additional connections can be made to an octal socket on the rear of the chassis for key, relay, etc.

**SIZE:** 11-1/2 x 9-1/2 x 6 inches. **WEIGHT:** 18-1/2 lbs.

**POWER:** AC-117 volts, 60 cycles, 220 watts maximum. For 12 volts DC operation, a Heath MP-10 Power Supply