

INSTRUCTIONS FOR OPERATING
CITIZEN-SHIP MODEL CTX TRANSMITTER

CITIZEN-SHIP RADIO CORPORATION
820 East 64th Street
Indianapolis, Indiana

INSTRUCTIONS FOR USE OF MODEL CTX CITIZEN-SHIP TRANSMITTER

Your Citizen-Ship Model CTX Transmitter is a crystal controlled transmitter for use with all the 27mc frequencies (See Paragraph on changing crystals). A high output MOPA circuit is used which assures compliance with the new closer FCC tolerance when used with the proper crystal. This circuit is modulated with an audio tone of approximately 700 CPS. Either carrier or tone operation may be selected for use by the operator with the so marked switch on the transmitter and signalled with the operate switch.

OPERATION

When Tone operation is selected a Carrier signal is constantly transmitted and the operate switch brings in the tone modulation.

With a selection of Carrier, pushing operate switch transmits the carrier signal.

This transmitter will operate Citizen-Ship Receivers 3VTR, SSTR, MTK, MTR, PR, PLR and LR. It should be obvious that practically any single channel receiver on the market can be operated with this transmitter.

CHANGING CRYSTALS

Your transmitter may be used on any of the six following frequencies by plugging in the desired frequency crystal and very slightly retuning the oscillator adjustment if necessary. (See Paragraph on Adjustments). This adjustment must be done using a Field Strength Meter to check your work.

27.255	27.095
27.195	27.045
27.145	26.995

BATTERIES

Batteries required are two 67 1/2 Volt "B" batteries Burgess type XX45 or Eveready #467, and one 1 1/2 Volt Burgess type 4F or Eveready type #742. Filament current is only 200 M.A. and plate current approximately 18 M.A.

Check battery voltages periodically. The transmitter will work on B voltages as low as 80 Volts (down from 135), but range may be decreased.

Screw the antenna into the stud provided below the hole in the top of the cabinet and extend to full length for flying. Testing can be done with the antenna collapsed or completely removed.

ADJUSTMENTS

All adjustments have been completed at the factory using the crystal with which the set is shipped, and should not be changed if you wish to continue using the transmitter on this frequency.

The brass screw to the right of the compression trimmer tunes in the oscillator. The compression trimmer tunes the output tank circuit and the brass screw to the left of the trimmer tunes the antenna. Never change any of these adjustments without the aid of a Field Strength Meter.

To change frequency of transmitter, plug in desired crystal and retune only the oscillator adjustment to give the optimum output on the Field Strength Meter. For a lower frequency crystal turn in, or clockwise. Turn out for a higher frequency. A 1/4 turn adjustment will be the most that is ever necessary. If you can not obtain the proper crystal you wish to use or feel that you do not wish to make the change yourself, return the unit to the factory with a note stating your wishes. A minimum charge of \$2.50 will be made which includes the crystal trade.

WARRANTY

Your CITIZEN-SHIP CTX Transmitter is warranted by the manufacturer to be free from defects in material and workmanship. Any transmitter failing to operate within 30 days after date of purchase will be repaired or replaced free of charge upon being returned to the factory. This warranty does not apply to failure of operation due to exhausted or improper batteries. If your transmitter is damaged in shipment, you should file a claim with the carrier immediately upon noting the damage.

This warranty does not apply if, in our judgement, the transmitter has been tampered with or received abusive treatment beyond that encountered in normal usage.

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LICENSING

CAUTION: Before this transmitter can be operated, it must be licensed as a Class C station in the Citizens Radio Service. In general, the only requirements for a Citizens Radio Station License with the CITIZEN-SHIP transmitter are that the applicant be 12 years of age or older and a citizen of the United States. If a boy under 12 wishes to purchase and use the Transmitter, he may have his father or another adult file application for the license. After the Citizens Radio Station license has been obtained, anyone may operate the transmitter, as long as the licensee assumes responsibility for the proper operation of the station. It is quite simple to obtain a Citizens Radio License, and complete information is contained in Part 19, FCC Rules and Regulations. This publication may be obtained from the Superintendent of Documents, Government Printing Office, Washington 25, D. C. at a cost of 5¢ per copy (do not send stamps). An application blank, FCC Form 505, is enclosed for your station license. This form should be filled out and sent to your nearest FCC Field Office. Additional forms may be obtained from your FCC Field Office or from the Federal Communications Commission, Washington 25, D. C. Do not operate your transmitter until you have received your Citizens Radio Station License.

The enclosed forms should be filled in and sent to your nearest Field Engineering Office. A list of the Field Engineering Offices is as follows:-

District No. 1	Customhouse, Boston, Mass.
District No. 2	Federal Building, New York City.
District No. 3	U.S. Customhouse, Philadelphia, Pa.
District No. 4	Old Town Bank Building, Baltimore, Md.
District No. 5	New Post Office Bldg., Norfolk, Virginia.
District No. 6	Federal Annex, Atlanta, Ga. Suboffice, Post Office Bldg., Savannah, Ga.
District No. 7	Federal Bldg., Miami, Florida. Suboffice, Post Office Bldg., Tampa, Fla.
District No. 8	Audubon Bldg., New Orleans, La. Suboffice, U.S. Courthouse & Customhouse, Mobile, Ala.
District No. 9	U.S. Appraisers Bldg., Houston, Tex. Suboffice, U.S. Post Office Bldg., Beaumont, Tex.
District No. 10	U.S. Terminal Annex Bldg., Dallas, Texas.
District No. 11	Post Office & Courthouse Bldg., Los Angeles, Cal. Suboffice, U.S. Customhouse, San Diego, Cal.
District No. 12	Customhouse, San Francisco, Cal.
District No. 13	Central Bldg., Portland, Ore.
District No. 14	Federal Office Bldg., Seattle, Washington.
District No. 15	Customhouse, Denver, Colo.
District No. 16	Uptown Post Office & Federal Courts Bldg., St. Paul, Minn.
District No. 17	U.S. Courthouse, Kansas City, Mo.
District No. 18	U.S. Courthouse, Chicago, Ill.
District No. 19	New Federal Bldg., Detroit, Mich.
District No. 20	U.S. Postoffice, Buffalo, New York.
District No. 21	Stangenwald Bldg., Honolulu, T.H.
District No. 22	Federal Bldg., San Juan, Puerto Rico.
District No. 23	Shattuck Bldg., Juneau, Alaska, Suboffice, U.S. Postoffice & Courthouse, Anchorage, Alaska.