

Interim Information

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Dear Customer:

Deliveries of early production radios have established that there are a few minor pit-falls to be avoided until such time as a final owner's manual can be provided. Perusal of the manual as provided can eliminate a good share of these; the tendency of the typical amateur radio operator to install and operate a complex piece of equipment without having read the manual is well known. A few words of caution before installation are entered on this sheet in the hope that it will call attention to particular errors frequently encountered.

First, the radio will not operate properly without installation of the auxiliary accessory plug. This plug, while intended to provide input/output connections for future accessories, does contain jumpers required for normal operation of the radio. When left disconnected, the symptoms are these: the frequency counter reads 900 on "A" VFO continuously, the RF gain control is inoperative and the meter functions do not work. Insertion of the auxiliary plug provided will cure this problem.

Secondly, several of the controls on the CX-7 are unique; no other radio offered to the amateur provides these features and they warrant some special attention. First, the OUTPUT control provides variable output from less than 1 watt to full output at the twist of a knob. No matter how loudly you talk to the unit, output will not be obtained unless the OUTPUT control is advanced from zero. Nominally, initial tune up should be effected by depression of the TUNE button (after at least 60 seconds of warm-up) with the output control reduced to zero. Advancing the output control until a forward power of 150 watts (about 4 on the meter) is obtained, or until no further increase in output is noticed with increase in rotation of the control, will provide full power output from the CX-7. Returning to the PUSH TO TALK or VOX position and speaking into the microphone, advancement of the clipping control will provide this same peak power out in the sideband mode.

Auxiliary connections on the rear of the unit are provided to key and external amplifier or antenna change-over relay. This set of contacts, when used in the CW mode with a power amplifier, will key the power amplifier relays on each character, resulting in chattering. To prevent this, the TRANSMIT push-button parallels this set of contacts on the rear of the unit; when using the CX-7 to drive a power amplifier that does not have the capability for full break-in operation, the transmit button should be depressed prior to the start of a transmission and released at the end of a transmission in order to hold the amplifier relays closed during the transmission. An external foot switch may also be connected to the microphone PTT terminals for this purpose.

The clipping control acts as both a microphone gain control and an RF clipping control. Advancement of the control to approximately position 3 or 4 (or until the meter just kicks above zero when reading CLIPPING, results in full output with nominal 6 dB clipping and will provide for some variation in gain between different microphones. Further advancement of the clipping control will cause the meter reading to rise higher on the scale, and approximately 20 dB of RF speech clipping is obtained, with a peak meter reading of S-6 to S-9.

When in the DRIVE position, as in the CLIPPING position, the meter is a threshold device; a peak reading of S-1 to S-3 are indicative of approximately 3 dB of RF compression (automatic load control). More drive than this is undesirable under any conditions and will not increase power output under proper operating conditions.

In the PLATE position, the meter reads 0 to 500 milliamperes of plate current. In the SCREEN position, it reads 0 to 50 ma screen current and in FORWARD and REFLECTED POWER positions, the meter becomes a directional wattmeter with full scale sensitivity of 200 watts. Nominally a reading of 4 on the meter is equivalent to 150 watts.

Thanks you (sic. - Ed) for your attention to this interim sheet, most of the information provided here is contained elsewhere in the manual. Get to know your radio and I am certain you will derive many hours of operating pleasure from it.