

BOGEN®

COMMUNICATIONS, INC.

AUTO-REVERSE CASSETTE TAPE PLAYER AND FM-STEREO/FM/AM TUNER

CPT-1A

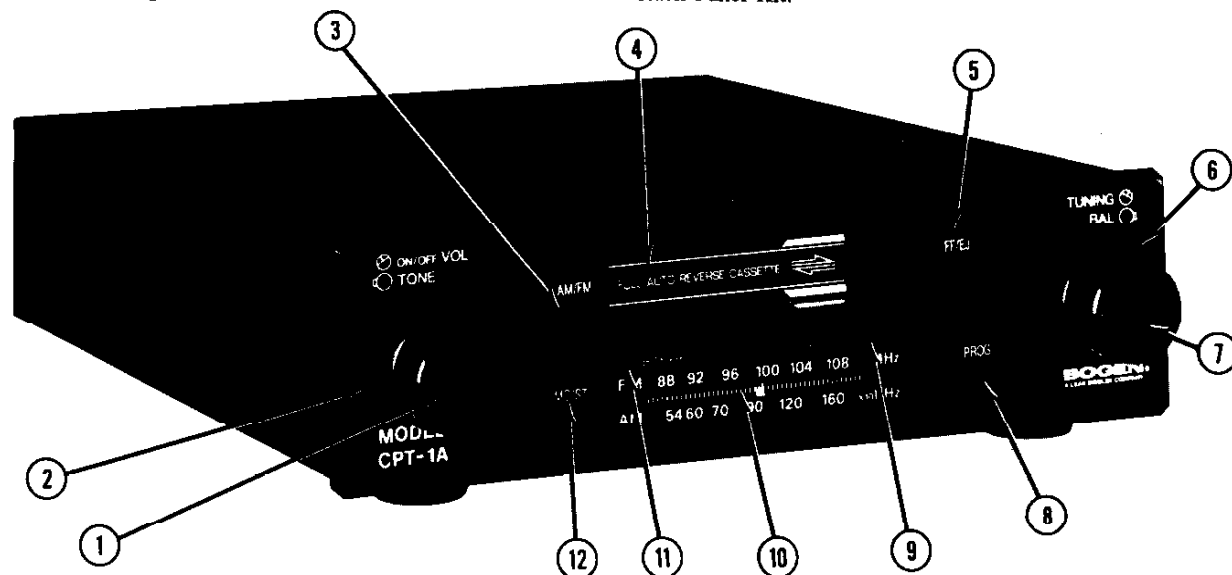
OPERATING INSTRUCTIONS

DESCRIPTION

The Bogen Model CPT-1A is a compact, integrated unit consisting of a stereo/mono cassette tape player and an FM-stereo/FM/AM tuner. It provides a reliable, economical source of background music for a sound system. Program continuity is assured by the automatic tape reverse feature, which changes the direction when the tape reaches the limit of its travel.

The CPT-1A operates on 120 volts AC. It incorporates a low-level, low-impedance output, which will drive the auxiliary input of a P.A. amplifier. The unit can also drive 8-ohm loudspeakers directly with its internal stereo amplifier (five watts per channel).

If desired, the CPT-1A may be mounted in a standard 19" equipment rack by means of the optional RPK-55 Rack Panel Kit.



CONTROLS AND FUNCTIONS

1. ON/OFF/VOLUME
2. TONE - clockwise rotation increases TREBLE; counterclockwise rotation increases BASS.
3. AM/FM SELECTOR - OUT for FM-stereo/FM; IN for AM.
4. AUTO REVERSE CASSETTE - insert cassette until it engages; unit automatically goes from radio to tape playing mode.
5. FAST FORWARD (& REWIND)/EJECT CASSETTE - For rapid advance of tape, press slowly to Position 1. For rewind, press PROG, then FF/EJ slowly to Position 1. For removal of cassette, press in fully to Position 2. For normal operation, FF/EJ must be in released position.
6. BALANCE - clockwise rotation increases sound to the right channel; counterclockwise rotation increases sound to the left channel.
7. TUNING- rotate control in either direction to select desired radio frequency.
8. TAPE PROGRAM - press to reverse the direction and play the opposite side of the cassette tape.
9. TAPE DIRECTION INDICATORS
10. FREQUENCY SCALE - illuminated scale indicates radio frequency being received.
11. FM-STEREO SIGNAL INDICATOR - illuminates when FM-stereo radio signal is being received.
12. MO/ST SWITCH - for normal FM-stereo reception set this switch to the OUT position. Press the switch IN for monaural operation, when receiving weak signals that cause the FM-STEREO indicator to come on and off, or to eliminate the annoying background noise from weak FM-stereo stations while tuning.

TO PLAY A CASSETTE TAPE

The door of the CPT-1A is hinged and will open and close with the insertion and removal of the cassette.

1. Rotate the power ON/OFF/VOLUME switch clockwise and increase volume slightly.
2. Check cassette to be certain that the tape is tightly wound on the reels.
3. Insert the narrow end of the cassette into receptacle, with exposed tape toward the right. When the cassette is fully inserted it will automatically begin to play (the unit will switch from radio to the tape player mode).
4. When the tape reaches the limit of its travel, the CPT-1A will automatically reverse direction and play the opposite side of the cassette. You may manually reverse direction of play at any time by pressing the PROG button.
5.
 - a. To advance tape rapidly, press FF/EJ, a two position switch, slowly until it locks into the first position.
 - b. To rewind tape rapidly, press PROG, then FF/EJ slowly until it locks into the first position.
 - c. To discontinue either of the above and return to normal operation, press and release FF/EJ.
6. To remove the cassette, firmly press FF/EJ—to the second (EJECT) position.

IMPORTANT NOTE

Always remove the cassette from the CPT-1A after use to prevent damage to the cassette and tape drive mechanism.

FM/AM OPERATION

1. Rotate the power ON/OFF/VOLUME switch clockwise and increase volume slightly.

2. Select either FM or AM radio band by pressing AM/FM button.
3. Select desired position of the MO/ST mode switch.
4. Rotate tuning knob to locate the desired radio frequency as indicated on frequency scale.

ROUTINE MAINTENANCE

Periodic cleaning of the tape head, capstans, and pinch rollers will ensure high quality reproduction of program material and trouble-free operation. The unit should be cleaned every 20 to 30 hours of operation. Use of a good quality cassette cleaning cartridge is recommended; if one is not readily available, proceed as follows:

1. Saturate a cotton swab with isopropyl (rubbing) alcohol.
2. While holding the cassette door open, locate the tape head (to the right of the opening and toward the center of the unit).
3. Clean the tape head, capstans, and pinch rollers with the cotton swab.
4. Allow parts to dry before operating the unit.

OVERLOAD PROTECTION

The CPT-1A is protected by an internal 100mA, slow blow fuse. If this fuse opens, the unit will shut down completely; have the trouble investigated by a qualified technician.

CAUTION

There are no user-serviceable parts within the unit. To avoid an electric shock hazard, have all internal servicing performed by qualified service personnel only. The warranty will become void if repairs are made by other than the Bogen Service Department or authorized service agency.

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IMPORTANT ANTENNA INFORMATION

Articles 810 and 820 of the National Electric Code, ANSI/NFPA No. 70-1978 provides information regarding antenna grounding. The CPT-1A is designed for connection to various antenna systems as illustrated in Figures 1 through 3.

CAUTION

Use No. 8 AWG aluminum wire, or larger, as ground wires for both mast and lead-in and secure to building structure with insulators spaced from 4 to 6 feet (1.22m. to 1.83m.) apart. Mount antenna discharge unit as closely as possible to where the lead-in enters the building structure.

FM LINE ANTENNA. The CPT-1A line cord may be used as an internal FM Line Antenna for receiving FM broadcasts (see Figure 1). For improved reception, particularly in weak signal areas or for tuners mounted in consoles or racks, installation of an outdoor FM or "T" antenna is necessary.

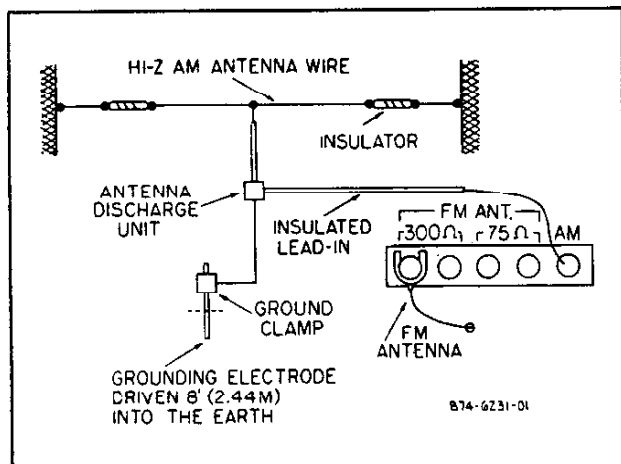


Figure 1 - Connecting Outdoor AM Antenna and FM Line Antenna

EXTERNAL FM ANTENNA. If you are installing a standard 300-ohm antenna system, connect the twin-lead transmission line as shown in Figure 2. If conditions require use of a coaxial transmission line, such as RG-11 or RG-59, connect the cable as shown in Figure 3. Always disconnect the FM line antenna when using an external FM antenna.

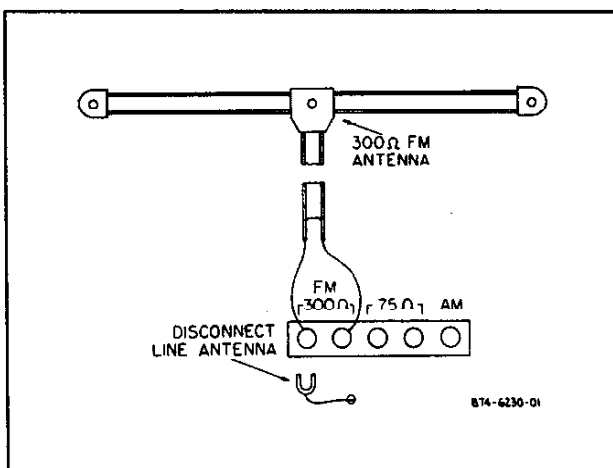


Figure 2 - Connecting Indoor FM Antenna, 300 Ohm System

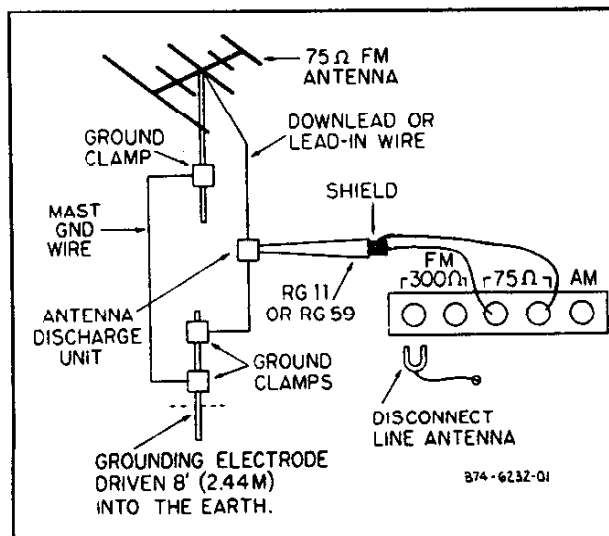


Figure 3 - Connecting Outdoor FM Antenna, 75 Ohm System