No. 683 REMOTE COMMAND TONE GENERATOR

GENERAL INFORMATION:

The No. 683 REMOTE COMMAND Tone Generator is designed for use at the central monitoring station in conjunction with No. 684 REMOTE COMMAND Tone Responders at subscriber's premises.

The No. 683 permits dry contacts in any No. 684 to be closed momentarily upon command via an ordinary telephone line. The central station can thus provide economical remote control and/or testing of alarm equipment (such as digital communicators, self-restoring McCulloch transmitters and listen-in devices) and other on-premises systems (such as lights, air conditioning, heating or industrial process equipment).

Any number of No. 684 Tone Responders (one at each desired telephone number) can be commanded, one at a time, from a single No. 683 Tone Generator at the central station. Although incidental mention is made herein of the No. 684's operation, complete information is contained in its own installation instructions.
INSTALLATION AND WIRING:

The No. 683 must be used with the same telephone line over which the subscriber's No. 684 will be called via a standard telephone handset.

1. Remove the four self-tapping screws from the corners of the No. 683's cover plate and lift out the plate and circuit board assembly. See Diagram 1.

2. Mount the unit's housing (or not) as desired. Use the slots at the rear of the housing for wiring access.

3. Connect a cold water pipe ground to the terminal indicated in Diagram 2.

4. Connect the unit's telephone line terminals across the same line that will be used to call the subscriber's No. 684's. Use of a four pin telephone plug and jack is recommended.

5. Connect the unit's 12 V. AC input terminals to the No. 1320 transformer (furnished) but do not plug in the transformer yet.

6. Replace the cover plate and its four corner screws.

7. Plug the transformer into any 110 V. AC outlet (preferably one that is ON 24 hours a day).

Note: If the unit's "ON LINE" LED lights, slide the "OFF" switch down momentarily.

OPERATION:

Determining the "HOLD" Switch Setting:

The HOLD setting insures that the tone will be maintained on the line long enough to activate the particular No. 684 called. It should be determined beforehand for each field location by a call over the actual telephone network to be used, since different networks may have different "ring cycles".

Proceed as follows using a watch with a second hand and a standard telephone handset connected to the same line as the No. 683 Tone Generator. (The "number of rings" to which the particular No. 684 is, or will be, set must be known.):

1. Dial the telephone number of the line that is, or will be, used by the No. 684.

2. Start timing as soon as the call reaches the premises and ringing begins. Count the rings.

3. End timing 10-15 seconds after the particular No. 684's assigned number of rings have taken place.

4. The "HOLD" switch setting to be used on the No. 683 for calls to this particular No. 684 is the setting just longer than the measured time. For example, if the measured time is 40 seconds, use the "1 minute" setting.

Operating the No. 683:

1. Set the No. 683's "TONE" switch to the F# that is on record as having been set in the particular No. 684 to be called.
2. Set the "HOLD" switch to the number of minutes (1/2, 1 or 2) that is on record as required for the particular No. 684 to be called. (See "Determining the "HOLD" Switch Setting" at the beginning of this section).

3. Dial the telephone number of the particular No. 684 to be called, using a standard telephone handset on the same line as the No. 683.

4. As soon as the call has reached the premises (when ringing begins) depress the No. 683's "ON" switch momentarily and hang up the handset. The No. 683 will then send the selected tone for the duration of the call and then hang up after the preset HOLD time. The "ON LINE" LED will light when the "ON" switch is depressed and will remain lit until the HOLD time is up. (If the "OFF" switch is depressed before the call is over, the unit will hang up immediately and the LED will go out.)

SPECIFICATIONS:

**Physical:**
- Width: 5-1/2" (14.0 cm)
- Height: 3-1/2" (8.9 cm)
- Depth: 3-1/2" (8.9 cm)

**Electrical:**
- Voltage: 12 V.AC (from No. 1320 Plug-in Transformer)