

CIVIL AIR DEFENSE WARNING SYSTEM
(CADW)

BELL AND LIGHTS
STATION EQUIPMENT - IDENTIFICATION

1.00 GENERAL

1.01 This section covers general information on the station equipment installed at civil defense control points and warning stations. This equipment provides coded visual signals and coded or noncoded audible signals for warnings transmitted to key stations.

1.02 This section is issued to renumber into the Station Operations Manual and is in accordance with the State of California, Office of Civil Defense.

1.03 The following attack warning signals are transmitted as public signals to

indicate the degrees of alert:

YELLOW (Y) - ALERT SIGNAL (Attack Probable)
BLUE (B) - AUTHENTICATION SIGNAL
RED (R) - TAKE COVER (Attack Imminent)
WHITE (W) - ALL CLEAR (Attack Over)

1.04 Equipment at the control points consists of a special dial (Fig. 1) and a station signal indicator (Fig. 2) arranged to provide coded visual signals as well as the associated coded or noncoded audible signals. At the warning stations, either the station signal indicator which incorporates the audible signal or an audible-only signal is installed.

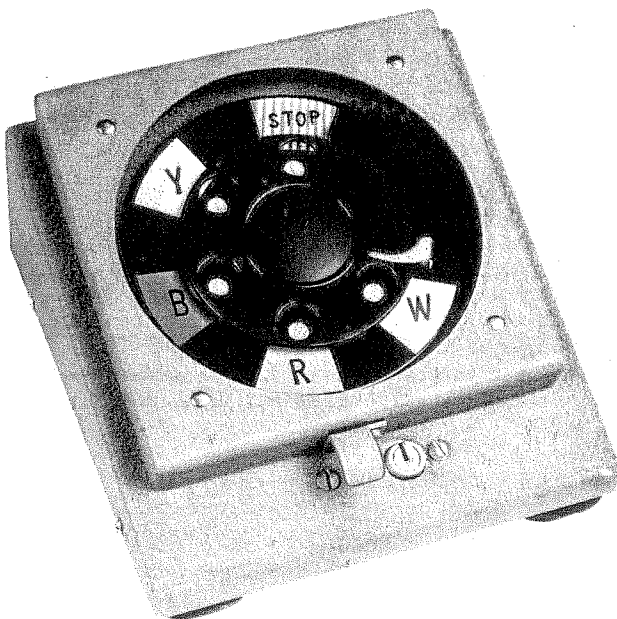


Fig. 1 - CADW Dial with Cover Closed

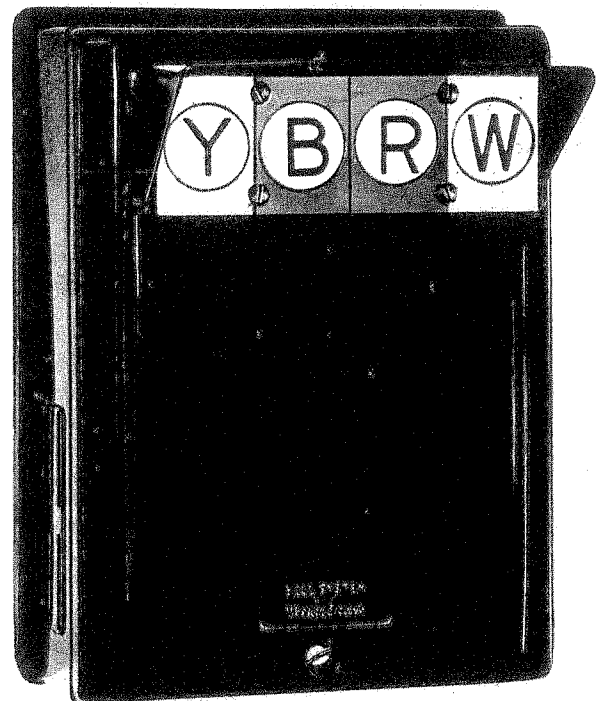


Fig. 2 - CADW Station Signal Indicator

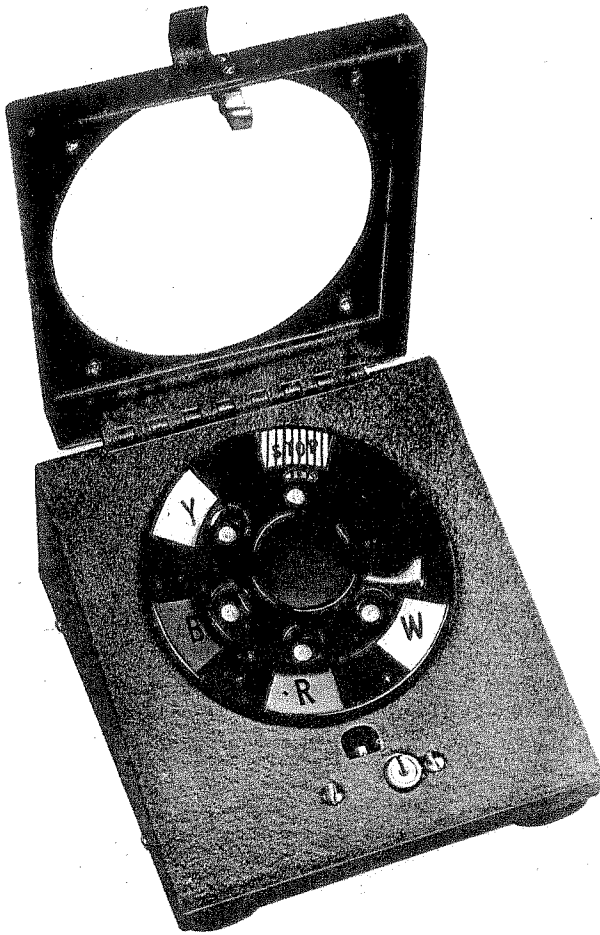


Fig. 3 - CADW Dial with Cover Open

A hinged cover with Plexiglas window protects the dial. The cover is equipped also with a lock and key. In case of emergency the cover may be forced open without the key, but the key is required for relocking (Fig. 3).

2.03 The station signal indicator shown in Fig. 2 is a modified 531A subscriber set having four 359A cold cathode electron tubes with several resistors. The tubes protrude through an opening in the subscriber set cover, and are protected by a plastic designation strip which diffuses the tube brilliance through a translucent window. The set is so wired that the signal dialed lights the corresponding tube.

2.04 A B1AL ringer is included in the station signal indicator and is equipped with two 41B gongs and 101A gong attachments with knockouts removed. A 592A or B subscriber set may be substituted for the normal ringer.

2.05 An external nonlocking 6017-type key may be associated with the ringer circuit so that the customer may silence the ringer during a part of any prolonged warning signal.

2.06 Where coded visual signals are not provided, the 687A subscriber set or equivalent is used. In small communities where warning stations are connected to single-line or 5-line capacity units at the central office, the audible-only signal should not be used since only steady (noncoded) ringing is supplied. Steady ringing in such cases would convey no information.

2.07 In larger communities where 8-line or 50- to 200-line capacity units are employed at the central office, superimposed coded ringing is transmitted to the line on a 4-party, fully selective principle. This activates both the station bell and the cold cathode tube throughout a given warning period. The bell rings and the associated lamp lights according to a distinctive code for each signal, as follows:

1.05 At certain locations, public audible signals (sirens) are installed by the customer and controlled at the central office by a public signal control unit.

1.06 Important stations may be associated with central office equipment for automatic self-test on these individual lines.

2.00 DESCRIPTION

2.01 The dial is a modified 7-type with a special finger wheel having only five finger holes. The number plate is marked with black letters on colored fields.

2.02 The dial is mounted in a gray-green wrinkle-finish metal housing (approximately 6 inches square) with an inclined top.

- ALERT SIGNAL (Y) - YELLOW
Two short rings (1/2 second each) - pause (2-1/2 seconds) - repeated
- AUTHENTICATION SIGNAL (B) - BLUE
Three short rings (1/2 second each) - pause (1-1/2 seconds) - repeated
- TAKE COVER (R) - RED
Continuous short rings (1/2 second each)

- ALL CLEAR (W) - WHITE
Steady ring (Continuous)

Note: Each alert signal will last approximately 3 minutes unless a different degree of signal is received and transmitted before 3 minutes expire.

2.08 A KS-16626, List 1 power relay set is required at public siren locations. When continuous line test is required, the

relay set should be modified with a KS-8512, List 6A resistor.

3.00 DIALING

All numbers must be dialed twice to operate associated equipment in the central office. STOP requires only one dialing. In the event of incorrect dialing, dial STOP to release central office equipment, then redial.

