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BELL SYSTEM PRACTICES
Station Installation
and Maintenance

SECTION C56.102Issue A 5-15-52-N
T. P. T. & T. Co.
Preliminary

CIVIL AIR RAID WARNING

BELL AND LAMP SYSTEM
STATION SIGNAL INDICATOR
AND
KEY POINT DIAL EQUIPMENT

1. GENERAL

- 1.01 This section covers the station equipment ordering, installation and connecting of Bell and Lamp Civil Air Raid Warning apparatus.
- 1.02 This section is issued in lieu of a forthcoming B.S.P. being prepared by the American Company.
- 1.03 Customer service is on a limited basis and the receiving of the "Yellow" alert is obtainable only on approval of the California State Civil Defense Authorities. Bell and Lamp signal service inquiries should be referred to Telephone Company commercial representatives.
- 1.04 A main station service is also limited to only ONE extension bell. The use of a single cable facility for two stations is governed by the maximum conductor loop as shown on drawing SD-69211-01 Note 202 referred to as an extension set.

2. STATION EQUIPMENT LOCATION

2.01 Locate the station signal indicator set on a vertical surface, at about eye level, in an unobstructed view location and not in direct sunlight or other brilliant illumination. Fasten the indicator

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in the same manner as covered in the B.S.P. for a subscriber set.

2.02 The Key Point or Alternate Key Point Dial equipment is a special dial, designated in color, with the various degrees of air raid warning signals and a special dial housing adaptable for either desk or wall mounting. When mounted on a vertical surface the following applies: remove the four feet, relocate the dial 180 degrees on its mounting, fasten the dial housing to the backboard so that the cover will hinge downward and out of the way when dialing. The backboard should not be over 60 inches above floor level.

3. CONNECTIONS

- 3.01 For connections to Main station indicator refer to SD-69211-01 Fig. 1.
- 3.02 For extension bell only with cut-off key see figure A below:

(Note: Extension bell does not require ground lead.)

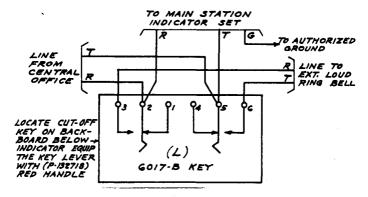
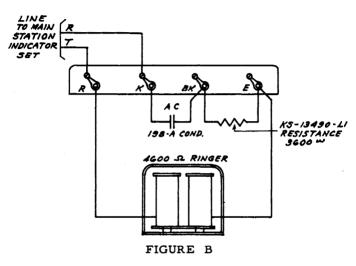


FIGURE A EXTENSION CUT OFF KEY

3.03 Extension Bell - loud ringing (592-A): The extension bell (592-A) shall be modified to permit its use in connection with the ringer circuit of the Main station indicator set. Add a 3600 ohm resistor, radio type, per KS-13490, L-1 (or equivalent) connected in series with the extension ringer and condenser as shown in figure B below:



EXTENSION BELL For

Bell and Lamp Air Raid Warning System (modified 592-A bell)

3.04 Local Extension Bell - Loud Ringing - in lieu of main station (modified 531A-3 set) ringer:

At some locations it may be desirable to have a loud ringing bell located on a hall wall adjacent to the main station indicator set (must be within hearing distance of the main station set) in place of the main station

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ringer. This may be accomplished by disconnecting the main station ringer leads (red and black wires) and substituting the local extension 592-A ringer leads to the 'BK' and 'R' terminals of the main station indicator set.

- 3.05 For connections to the Key Point or Alternate Key Point signal sending equipment (Sunflower Dial) SD-69211-01 figure 4:
 - (A) Desk mounted ED-69245-01, G-1 Connect the Central Office line to the dial apparatus terminal strip by means of a 42A4 or 9 connecting block, on desk or wall, using a D3AY cord. The green and yellow conductors of the cord shall be fastened at each end under the same screw. At the dial mounting the red conductor and the stay hook shall be fastened under the same screw.
 - (B) Wall mounted ED-69245-01, G-1 and 2 Connect the Central Office line directly to the terminal strip as shown on drawing SD-69211-01 figure 4.

4. SUPPLIES

4.01 A Station Signal Indicator should be ordered as follows:

Amt

- Unit indicator signal station J99237D,
 L-1 per ED-69231-01 figures 1 & 3.
- 4.02 Key point dial equipment should be ordered as follows:

Amt

Assembly, dial station ED69245-01,
 G-1 desk mounting.

1 - Assembly, dial station ED69245-01, G-1 and G-2 wall mounting.

5. DRAWINGS

5.01 The following drawings are associated with the Bell and Lamp Civil Air Raid Warning System.

Circuit Drawings:

SD-69211-01 Station Signal Indicator and Dial (attached)

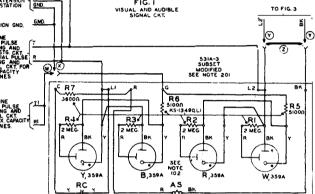
Equipment Drawings:

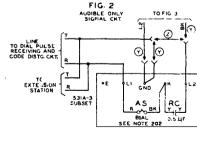
ED-69231-01 Station Signal Indicator ED-69245-01 Dial and Dial Housing

STATION SIGNAL INDICATOR CIRCUIT FIG. 3 RINGER CUT-OFF KEY RCO 6017C EXTENSION STATION VISUAL AND AUDIBLE SIGNAL CKT.

0.5 UF

-692II-0I





BIAL SEE NOTE 202

TO FIG. I OR 2

2D 1 DWG.ISS.

2-692II-01 PRINTED IN U.S.A.

2D 1 C.D. ISS.

VISUAL A
AUDIBLE
RINGER CE
RINGER CE
CONTROL
CONTROL
CONNECTH
CIRCUIT

102. SIGNAL (Y
YEL-C
B-U)
RECORD OF
ANNET
CHISS, SS
2D X

CIRCUIT NOTES: FEATURE OR OPTION FIG. OR QUANTITY 050 VISUAL AND AUDIBLE SIGNAL CKT STATION PER AUDIBLE ONLY SIGNAL CKT STATION 1 PER RINGER CUT-OFF KEY STATION RINGER CUT-OFF FEATURE CONTROL STATION DIAL STATION DIAL FULSE RECEIVING AND SOCE DISTS, OKT (2-WIRE OPENATION) DIAL PULSE RECEIVING M. CONTROL CKY FOR MAX. CAPACITY FIVE CONNECTING CIRCUIT

| 22. | SIGNAL (YISUAL) | RYSTE CPERATION | SAWRE CPERATION | SAWR

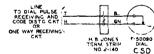
3. RECORD OF FIGURES WIRNS, AND A PRATUS CHAMBES

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CHISS DO NOT WAS NOTE

2D X OR N X 1,01 X,W M.O.

FIG. 4
CONTROL STATION DIAL



EQUIPMENT NOTES:

201. THE 531A-3 SUBSET FIG.1 SHALL BE MODIFIED IN ACCORDANCE WITH ED-69231-01.

202. BIAL RINGERS SHALL BE EQUIPPED WITH 2.41E GONGS AND ICIA GONG ATTACHMENTS WITH KNOCK-OUTS REMOVED WORKING LIMITS

| 17C | CONN. CKT. | MIN. VOLTS AC | MIN VOLTS DC | MAX. EARTH | MIN. | MAX. GONE | |
|-----|------------|---------------|--------------|-------------|----------|-----------|------|
| | 2-WIRE | 70 V. | 45V. | 0 | 15,0000 | 13COA | 400n |
| | | 70 V. | 45 V. | + OR - 5V | 150000 | 800 N | 500 |
| | | 75 V | 45 V. | + OK-5 V | 15,0000 | 1300n | 4000 |
| | | 70 V | 45V | + UR-10V | 15,0000 | 3000 | |
| | | 75 V. | 45 V | + OR · IOV. | (5,0000 | 9000 | 2000 |
| | | 80∨ | 45V | + 0R-10V | 156 700 | 13000 | 4000 |
| | 4-WIRE | 707 | 45 V. | | 15,600 0 | 10000 | i |

THE ABOVE LIMITS ARE BASED ON THE USE OF A 130 OR EQUIVALENT RES. LAMP IN SERIES WITH THE RINGING SUPPLY RANCES SHOWN FOR 2-WIRE OPERATION WITH ONE EXTENSION APPLY TO THE FARTHEST STATICH.

STATION SIGNAL INDICATOR CIRCUIT