

LAMP INDICATORS

1.00 INTRODUCTION

1.01 This section covers the description and installation of 14-, 15-, 16-, 17-, 18-, 20-, and 21-type indicators.

1.02 Due to extensive changes marginal arrows have been omitted.

2.00 GENERAL

2.01 The 14-, 15-, 16-, 17-, 18-, and 20-type indicators are shown in Fig. 1, 2, 3, 4, 5, and 6. Either a switchboard-type lamp or a key equipment-type lamp with appropriate adapter is used to furnish the visual signal. These indicators are used at stations to give line and busy indications in key systems, PBX systems such as the 750A and 755A, and similar station systems.

2.02 The 21-type indicator (Fig. 7) has a 2-element cold cathode tube which operates on ringing voltage and provides a visual line-lamp signal during the ringing interval.

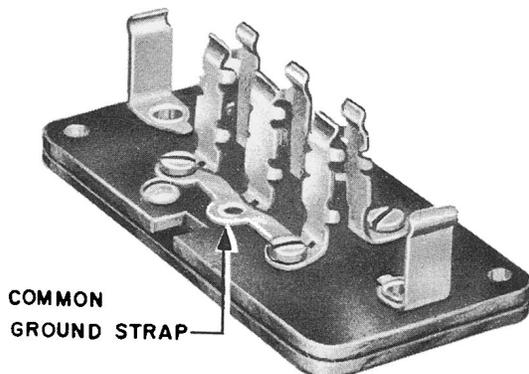
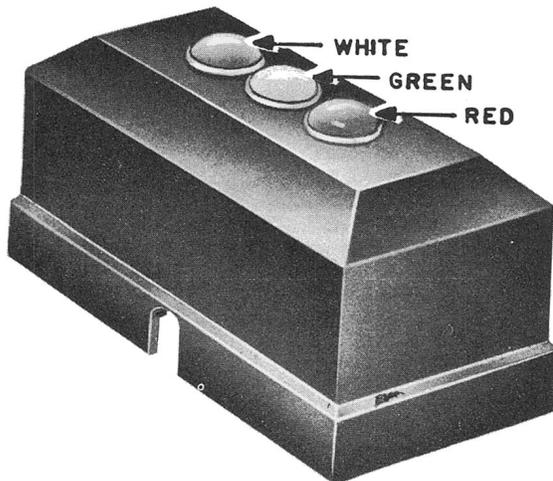


Fig. 1 - 14-Type Indicator

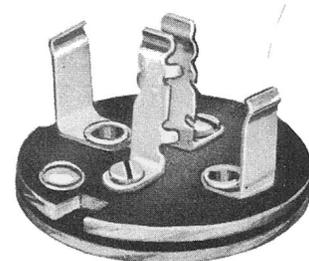
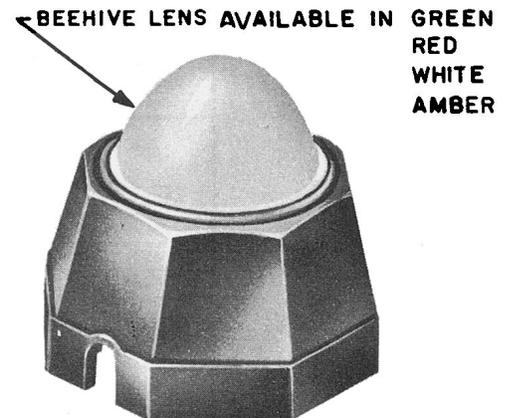


Fig. 2 - 15-Type Indicator

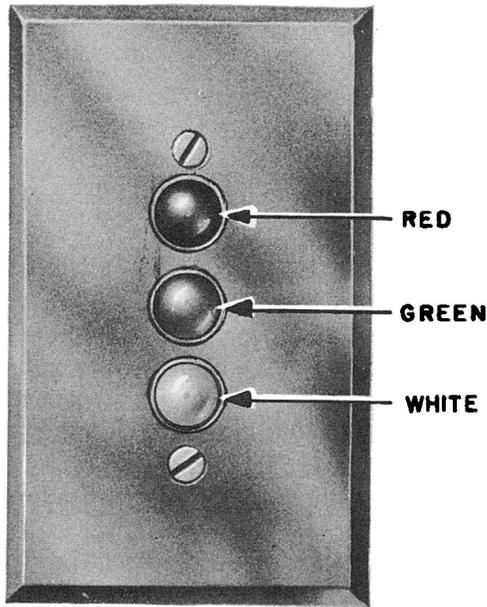


Fig. 3 - 16-Type Indicator

2.03 The 14-, 15-, 17-, 18-, 20-, and 21-type indicators are all nonflush type. They may be mounted in a fixed position with wood screws (not furnished) or without fastening on a horizontal surface. A pad is furnished for the latter method.

2.04 The 16-type indicator (Fig. 3) is a flush-type plate for mounting three lamps. It can be mounted in a standard-type outlet box (provided by customer) or be flush mounted in the same manner used for station jacks.

2.05 See Table A for indicator features and associated apparatus.



An associated mounting cord, when required, should be ordered separately.

TABLE A
INDICATOR FEATURES AND ASSOCIATED APPARATUS

| Type Indicator | Flush Plate or Housing Color | Number of Lamp Positions | Colored Lenses Furnished | Mounting Cord, as Required |
|----------------|--|--------------------------|--|----------------------------|
| 14B* | Light Olive Gray (-49) | 3 | White (1) Green (1) Red (1) | D4BD-49 |
| 15D* | Light Olive Gray (-49) | 1 | White | D3BP-49 |
| 15E* | Light Olive Gray (-49) | 1 | Red | D3BP-49 |
| 15F* | Light Olive Gray (-49) | 1 | Green | D3BP-49 |
| 15G† | Light Olive Gray (-49) | 1 | Amber | D3BP-49 |
| 16A‡ | Light Olive Gray (-49) Ivory (-50) Brown (-54) | 3 | White (1) Green (1) Red (1) | None |
| 17C* | Light Olive Gray (-49) | 2 | Green (1) Red (1) | D4BD-49 |
| 17D* | Light Olive Gray (-49) | 2 | White (1) Red (1) | D4BD-49 |
| 17E† | Light Olive Gray (-49) | 2 | Red (1) Red (1) | None |
| 17F† | Light Olive Gray (-49) | 2 | White (1) Amber (1) | None |
| 18B* | Light Olive Gray (-49) | 3 | White (1) Green (1) Red (1) | D4BD-49 |
| 18C | Light Olive Gray (-49) | 3 | Green (1) Amber (1) Red (1) | D4BD-49 |
| 20B* | Light Olive Gray (-49) | 4 | White (1) Green (1) Amber (1) Red (1) | D5J-49 |
| 21B* | Light Olive Gray (-49) | 1 | Clear | D3BP-49 |

* Housing color previously furnished — black or old brass

† Housing color previously furnished — black

‡ Flush plate color previously furnished — brushed brass

3.00 INSTALLATION

3.01 Avoid locating indicators in direct sunlight or areas of high illumination.

3.02 To install unattached mounting on desk or table top:

- Equip with mounting cord and attach non-skid pad to indicator base.
- Fasten cord on connecting block to rear of desk or table mounted in knee well or behind center drawer.
- Fold or fasten excess cordage securely to avoid creating a safety hazard.

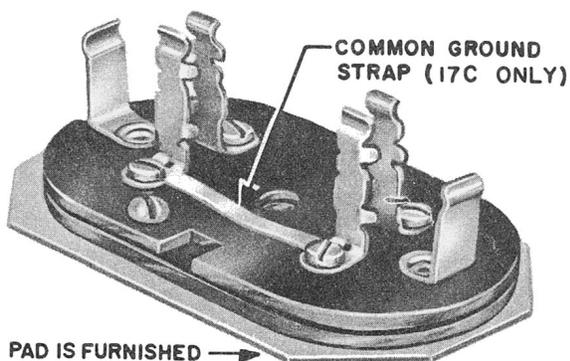
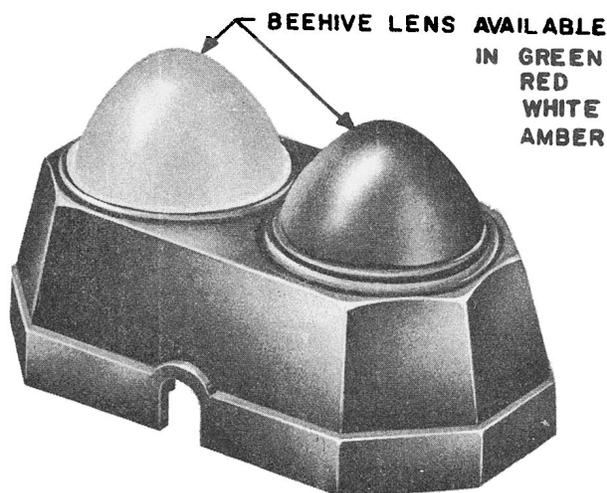


Fig. 4 - 17-Type Indicator

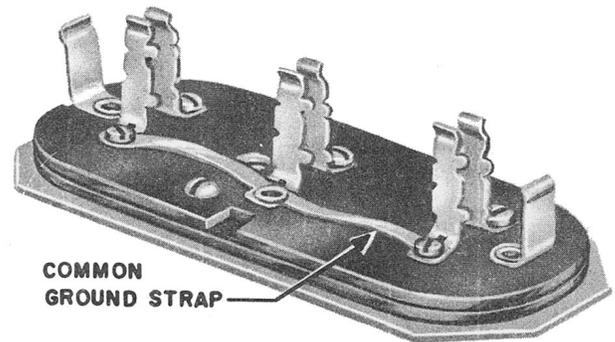
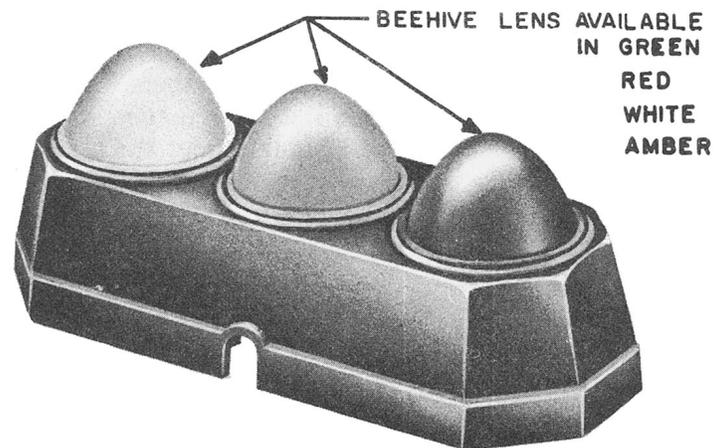


Fig. 5 - 18-Type Indicator

3.03 To install fixed mounting on desk or table top:

- Fasten indicator with 3/4 inch 6-8 RH wood or metal screws.
- For mounting on plaster, metal, or masonry surfaces, use proper size backboard and install in accordance with accepted procedure.
- For concealed wiring installations, bring wires through mounting surface and hole cut in composition base of indicator.

3.04 When installing mounting cords to indicators, care should be taken to dress conductor leads properly in the available space. This avoids electrical short circuits, interference with positioning of housing, and blanking out the lamp signal.

3.05 Lamps should be positioned properly in their sockets.

3.06 Snap indicator housings to bases making certain they are firmly positioned.

3.07 The 21-type indicator (Fig. 7) should be connected across the line.

3.08 The 358A tube in the 21-type indicator will flash as follows:

- The 358A tube should flash near the top on superimposed ringing. If it does not, reverse the tip and ring conductors of the mounting cord (or inside wire) at the most accessible point.
- In cases where pure ac ringing current is used, the 358A tube will flash both top and bottom.

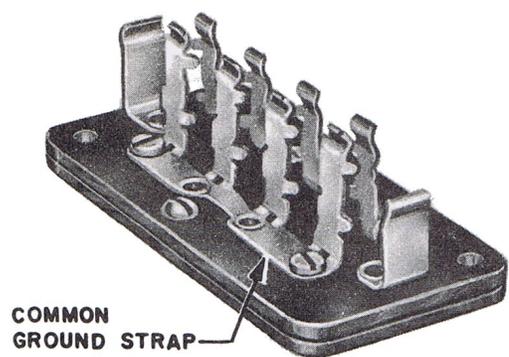
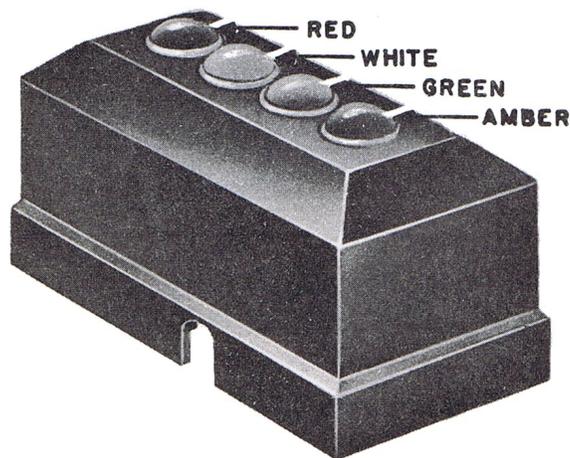


Fig. 6 - 20-Type Indicator

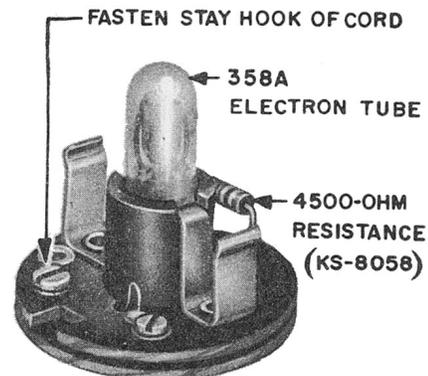
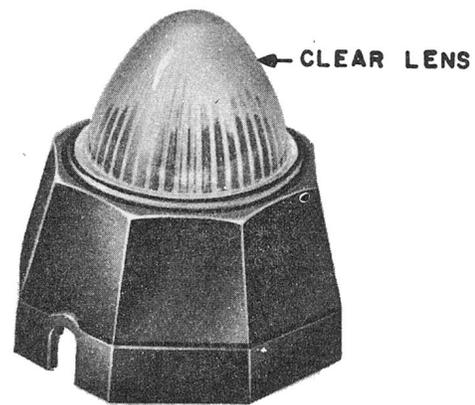


Fig. 7 - 21-Type Indicator