

## TELEPHONE SETS — 307A, C

### LOCAL BATTERY — CONNECTIONS

#### 1.00 INTRODUCTION

1.01 This section covers the combination of apparatus, circuit diagram, and connections for the 307A and C telephone sets.

1.02 These sets are used for the following services:

- Individual lines.
- PBX stations.
- 2-party flat rate.
- 2-party message rate (manual and ring party dial).
- 4-party semiselective.
- Multiparty divided code.
- Multiparty nonselective.



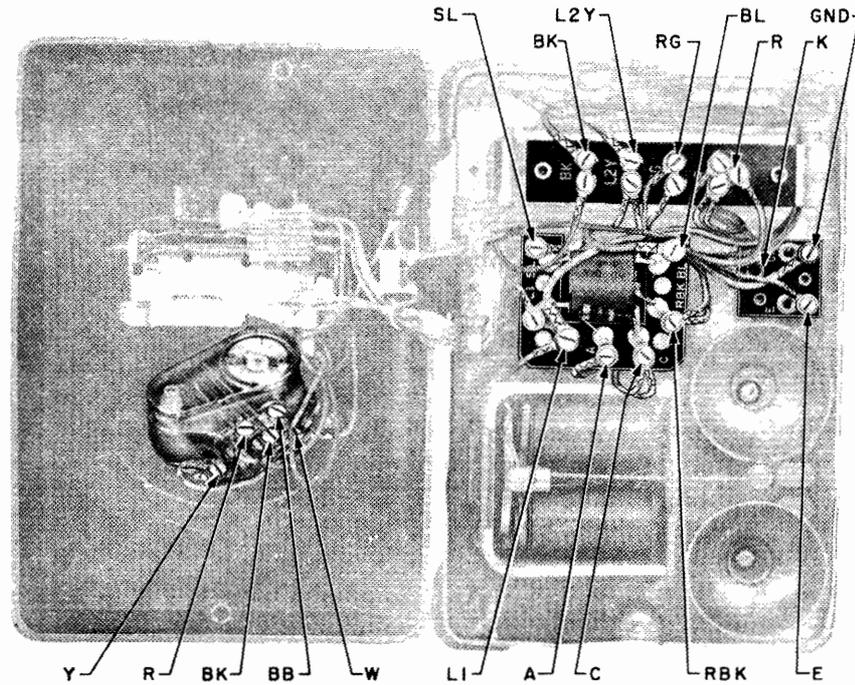
FIG. 1—307 TYPE

TABLE A—COMBINATION OF APPARATUS

| Tel. Set Code | Use    | Components |          |                 |                |        |           |          |                   |
|---------------|--------|------------|----------|-----------------|----------------|--------|-----------|----------|-------------------|
|               |        | Handset    | Dial     | Apparatus Blank | Induction Coil | Ringer | Capacitor | Inductor | Filter (Optional) |
| 307A          | Manual | F1         | —        | 82A or 94A      | 104A           | B1AL   | 387A      | 266A     | —                 |
| 307C          | Dial   |            | 5H or 6A | —               |                |        |           |          | 61P               |

**TABLE B**  
**LINE AND RINGER CONNECTIONS**

| Wire or Lead                                     |    | Individual or Bridged | Ring Party Positions<br>1, 3, 5, 7, 9 | Tip Party Positions<br>2, 4, 6, 8, 10 |
|--|----|-----------------------|---------------------------------------|---------------------------------------|
| Mounting Cord in Set                             | R  | L1                    | L2Y                                   | L1                                    |
|  | GN | L2Y                   | L1                                    | L2Y                                   |
|  | Y  | GND                   | GND                                   | GND                                   |
|  | BK | BK                    | BK                                    | BK                                    |
|  | BL | BL                    | BL                                    | BL                                    |
| Ringer Lead                                      | R  | L1                    | K                                     | GND                                   |
|  | BK | K                     | GND                                   | K                                     |
| Mounting Cord at 44-type Connecting Block        | R  | 1                     | 1                                     | 1                                     |
|  | GN | 2                     | 2                                     | 2                                     |
|  | Y  | 4                     | 4                                     | 4                                     |
|  | BK | 5                     | 5                                     | 5                                     |
|  | BL | 6                     | 6                                     | 6                                     |
| Local Battery Wiring at 44-type Connecting Block |    | 5                     | 5                                     | 5                                     |
|  |    | 6                     | 6                                     | 6                                     |



**FIG. 2—307C**

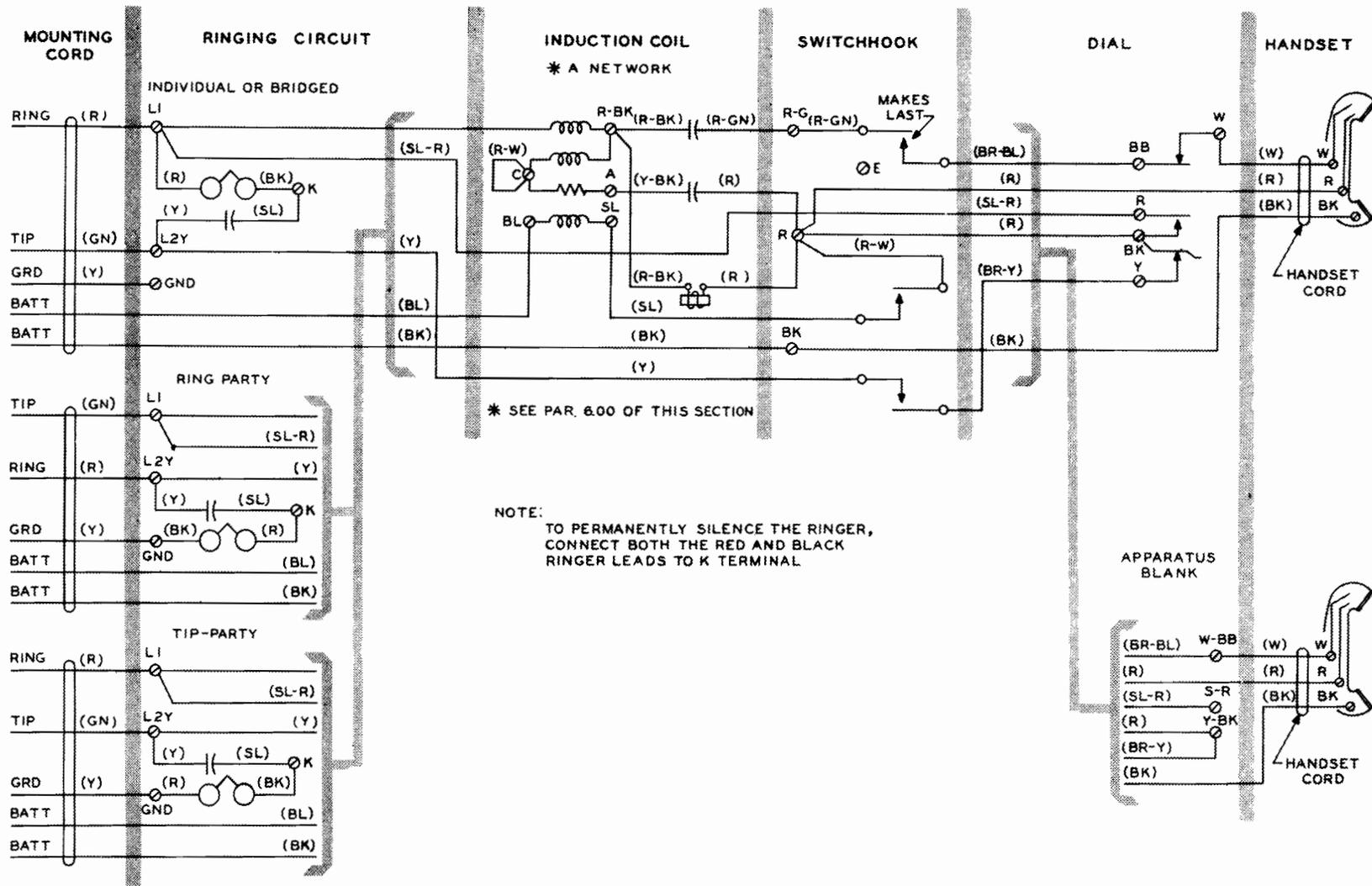
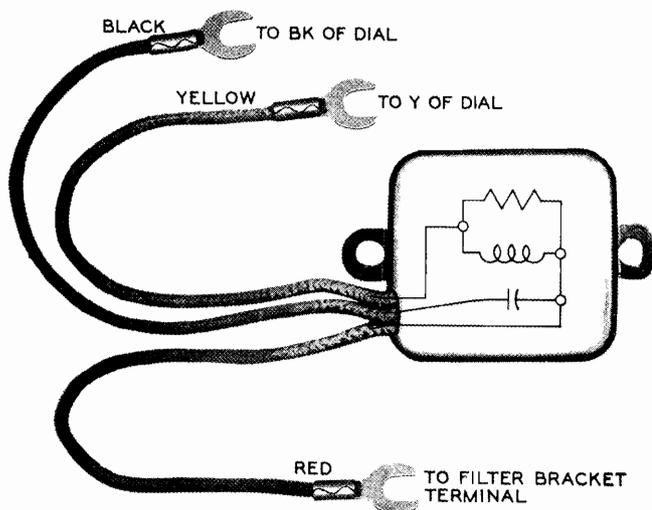


FIG. 3—307A, C CIRCUIT DIAGRAM

### 3.00 RADIO-FREQUENCY SUPPRESSION FILTER



**Note:** Remove brown-yellow lead from Y of the dial and terminate it on the filter bracket terminal.

FIG. 4—61P FILTER (WITHOUT BRACKET)

### 4.00 COMMON SOURCE OF BATTERY

**4.01** Where the transmitter battery for more than one local battery talking station is obtained from a common source of supply, such as battery feed from the central office, changes must be made in Fig. 3 as indicated below:

- Replace the F1 handset with an F2 handset.
- Connect the green conductor of the F2 handset to terminal E.
- Remove the red-white lead from terminal R and connect it to terminal E.
- Connect the red, black, and white conductors of the F2 handset in the same way as shown for the F1 handset.

**4.02** When a common source of battery is used, a battery feed filter must be used. For further information, see the section covering battery feed filters.

### 5.00 RINGERS

The ringers in these sets are of the high-impedance type. For information on the number and type of ringing bridges permitted on each line, reference should be made to the section covering ringer limitations.

### 6.00 INDUCTIVE NOISE

When inductive noise is encountered at tip party stations, connect the red lead from the 266A inductor to RBK and the red-black lead to R.

### 7.00 BALANCING NETWORKS

**7.01** Means are provided in the sets covered in this section whereby various networks may be connected in the induction coil balancing circuit to obtain satisfactory sidetone balance when the sets are used on the different types of subscriber loops employed in the plant.

**7.02** Sets are normally furnished with the type A network as indicated in the circuit diagrams. Necessary changes in the set to obtain other networks are indicated below.

**Network B:** Connect a KS-8058, 400-ohm, or KS-13490, List 2, 390-ohm resistor from A on induction coil to R on terminal strip. Connect red from capacitor to A on induction coil. (The KS-8058 or KS-13490, List 2 resistor is not furnished as part of the set.)

**Network C:** Connect yellow-black from capacitor to C on induction coil.

**Network D:** Connect yellow-black from capacitor to R on terminal strip. Connect red-white strap from C on induction coil to R on terminal strip.