# TELEPHONE SETS — 307A

## MAGNETO — CONNECTIONS

### 1.00 INTRODUCTION

**1.01** This section covers the combination of apparatus, circuit diagram, and connections for the 307A telephone set when used with a magneto subscriber set.

**1.02** The sets are used for the following services:

- Individual Lines.
- PBX Stations.
- 2-party Flat Rate.
- 4-party Semiselective.
- Multiparty Divided Code.
- Multiparty Nonselective.

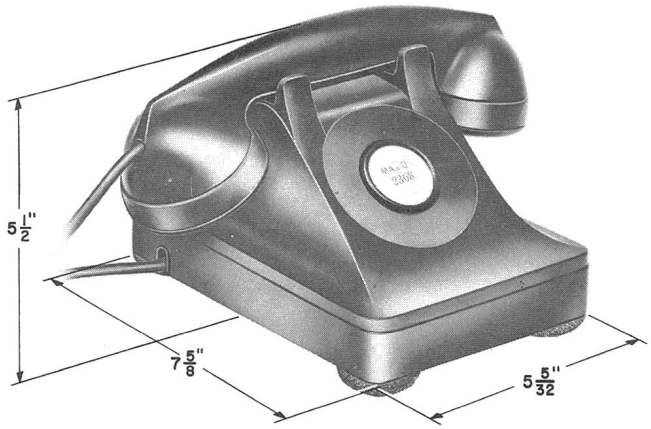


FIG. 1—307 TYPE

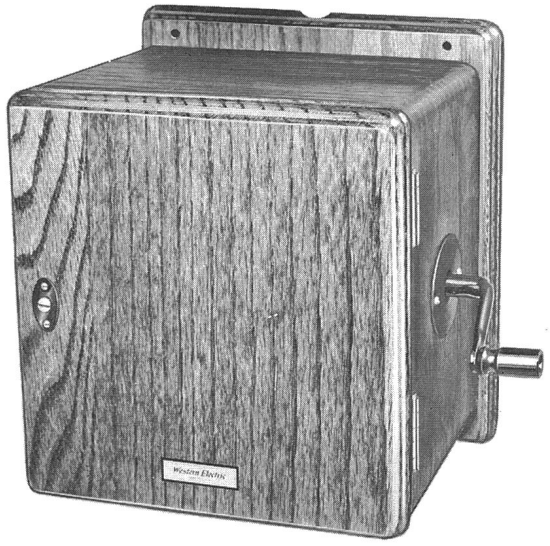

FIG. 2—299F OR D-176680 TYPE

TABLE A—COMBINATION OF APPARATUS

| Tel. Set Code | Use | Components | | | | | |
|---|---|---|---|---|---|---|---|
| | | Handset | Apparatus Blank | Induction Coil | Ringer | Capacitor | Inductor |
| 307A | Magneto | F 1 | 82A or 94A | 104A | B1AL | 387A | 266A |
| 299F | | 5-Bar Generator (48A) | | | | | |
| D-176680 | | 3-Bar Generator (D-176681) | | | | | |

### 2.00 RINGERS

The ringer in this set is of the high-impedance type. For information on the number and type of ringing bridges permitted on each line, see the section covering ringer limitations.

## 3.00 CONNECTIONS

### TABLE B
### LINE AND RINGER CONNECTIONS

| Wire or Lead | | Individual or Bridged Station | Ring Party Station Positions 1, 3, 5, 7 and 9 | Tip Party Station Positions 2, 4, 6, 8 and 10 |
|---|---|---|---|---|
| Mounting Cord in Telephone 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 |
| L1 and L2 Lead from Subscriber Set at 44-type Connecting Block | | 1 | 1 | 1 |
| | | 2 | 2 | 2 |

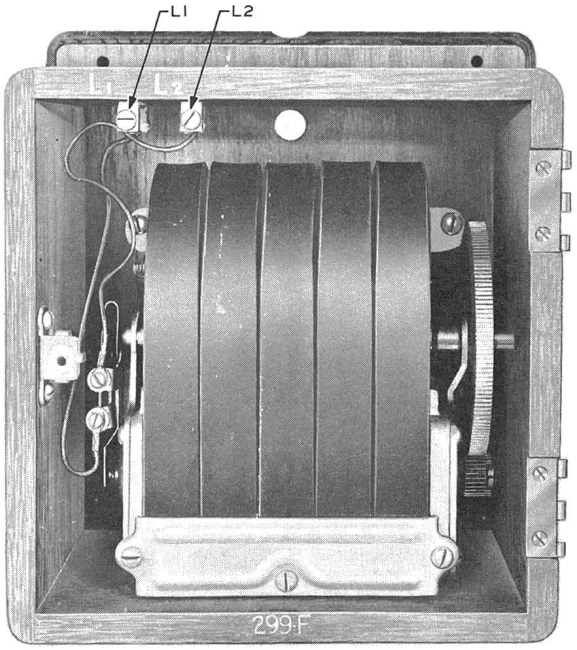


FIG. 3—299F (D-176680 HAS A 3-BAR GENERATOR)

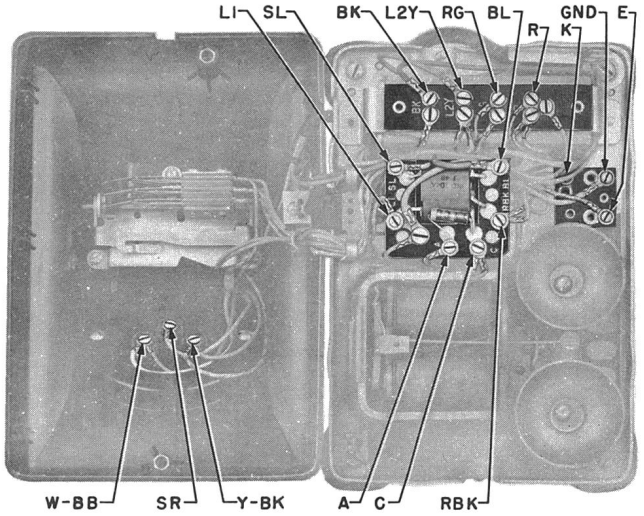


FIG. 4—307A

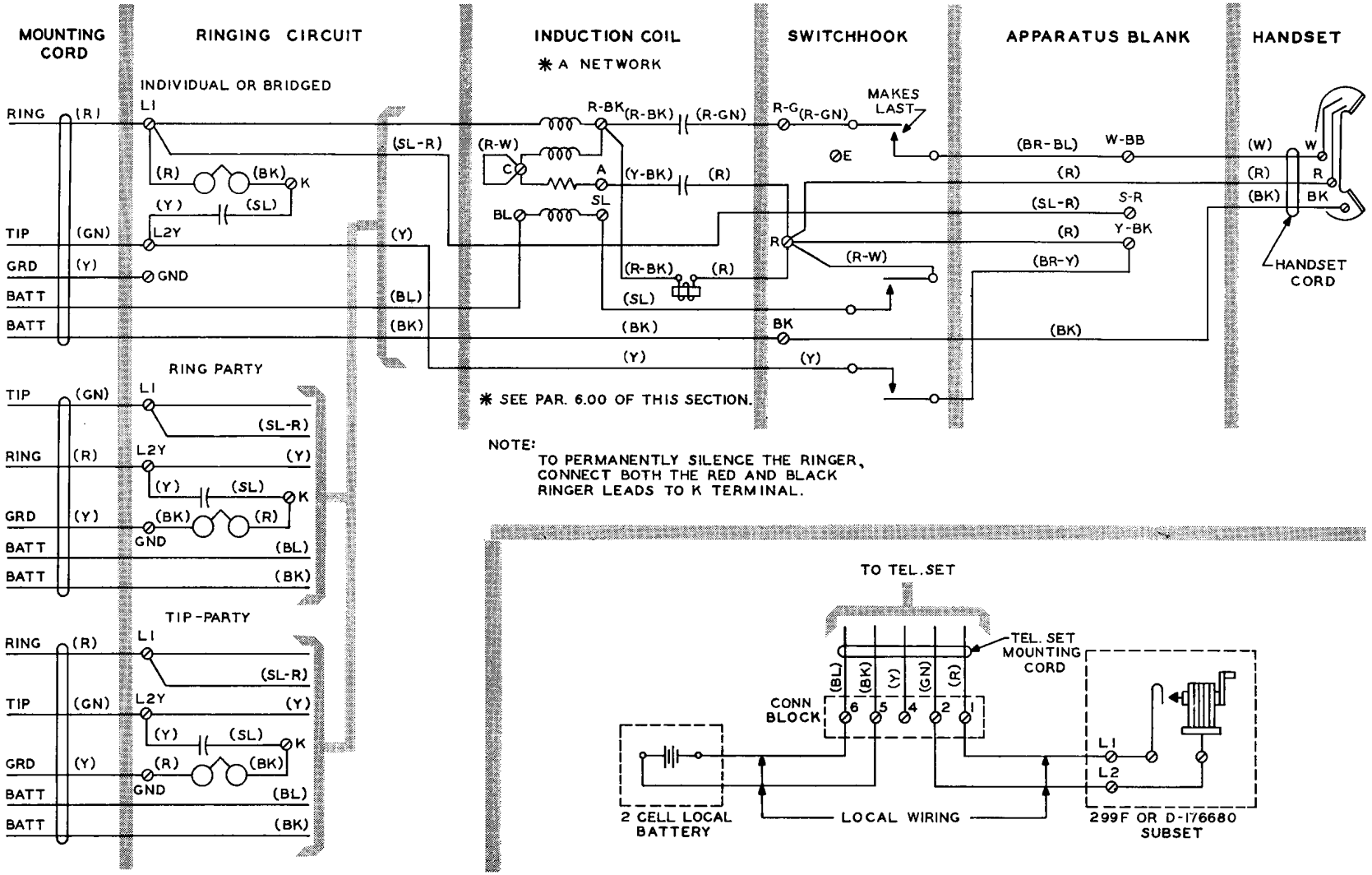


FIG. 5—307A TELEPHONE SET WITH MAGNETO CONNECTIONS (CIRCUIT DIAGRAM)

## 4.00 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.

## 5.00 COMMON SOURCE OF BATTERY

**5.01** Where the transmitter battery for more than one station is obtained from a common source of supply, such as battery feed from the central office, the following changes in Fig. 5 must be made:

- 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 in Fig. 5.

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

## 6.00 BALANCING NETWORKS

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

**6.02** This set is normally furnished with the type A network as indicated in Fig. 5. Necessary changes in the set to obtain other networks are as 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.