

## SUBSCRIBER SETS — 634Y LOCAL BATTERY — CONNECTIONS

### 1.00 INTRODUCTION

This section covers the combination of apparatus, circuit diagram, and connections for the 634Y subscriber set when associated with hand telephone sets for local battery talking—common battery signaling service.



FIG. 1—634 TYPE

TABLE A—COMBINATION OF APPARATUS

Sub. Set Code	Components		
	Induction Coil	Capacitors	Ringer
634Y	104A or 113D	149B or 1149B and 149D or 149F or 449B or 449H and 449D or 449F	6J, 6JA, 8J, 8JA, 68J, 68JA, or B1AL

**2.00 GENERAL**

**2.01** The 634Y subscriber set may be used in combination with hand telephone sets to provide service at local battery talking—common battery signaling stations; however, its use is not recommended when the hand telephone set is equipped with an F- or G-type handset.

**2.02** These sets may come equipped with either a 104A or 113D induction coil, but the coils are not interchangeable in the field. The corresponding terminals of the two coils are given below:

104A — L1	RBK	C	A	BL	SL
113D — S	S1	S2	S3	P	P

**2.03** Means are provided in the sets whereby any one of four different network connections, A to D, may be made in the induction coil balancing circuit to obtain a satisfactory sidetone balance when sets are used on the different types of subscriber loops employed in the plant.

**2.04** Unless otherwise specified, sets are furnished with the A network, as shown in the circuit diagrams herein. Necessary changes in the set to obtain the other networks are shown as follows:

**SETS EQUIPPED WITH 104A INDUCTION COILS**

**Network B:** Connect a KS-8058, 400-ohm, or KS-13490, List 2, 390-ohm resistor between A on induction coil and BK. Connect black lead from capacitor to wood screw. (See note 1.)

**Network C:** Connect yellow lead from capacitor to C on induction coil and connect one end of black strap on C to wood screw.

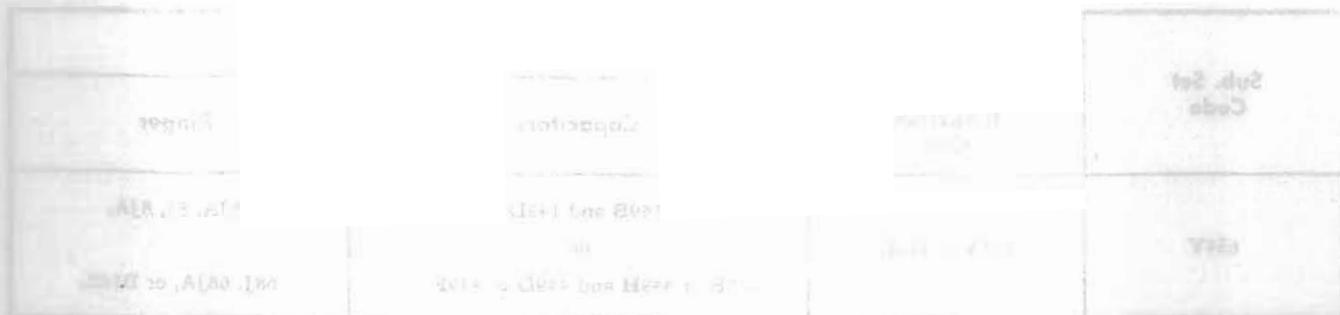
**Network D:** Connect black lead from capacitor to wood screw and connect one end of black strap on C to BK.

**SETS EQUIPPED WITH 113D INDUCTION COILS**

**Network B:** Connect a 63FD or KS-8058, 280-ohm, or KS-13490, List 2, 300-ohm resistor between S3 on induction coil and BK. (See notes 1 and 2.)

**Network C:** Connect white lead from S3 on induction coil to wood screw and connect black lead from capacitor to BK.

**Network D:** Connect black strap from S2 on induction coil to BK.



**Notes**

1. The 63FD or KS-8058, 280- or 400-ohm, or KS-13490, List 2, 300-ohm resistor is not furnished as part of the set and must be obtained separately.
  2. To make this connection, the white lead from S3 on induction coil should be connected to any unused terminal on the set and the resistor should be connected between that terminal and BK. If there is no unused terminal, an extra terminal should be added to the set.
- 2.05** When dry cells are employed for transmitter battery supply, they shall be connected in series with the battery terminals of the subscriber set using the number of cells specified in the section which covers transmission zoning.
- 2.06** Where stations receive transmitter battery supply from a common source, a filter is necessary in each transmitter circuit. This filter and its

connections are covered in the section which deals with battery supply filters.

**3.00 CONNECTIONS**

**3.01** To connect the subscriber set to its associated hand telephone set, the appropriate circuit diagram herein should be matched with the circuit diagram on the foldout page in the section covering the connections for the hand telephone set or coin collector. It should be noted that changes in the wiring of the subscriber sets are required in some cases; therefore, the connection table should be followed closely.

**3.02** Connections in table form are also given for each type of subscriber set connection. Table C covers the connections when individual source of transmitter battery is employed, and Table E covers the connections when transmitter battery is obtained from a common source.

TABLE B—ASSOCIATED APPARATUS

Class of Service	Hand Telephone Set	
	Desk Type	Hang-up Type
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	202E, F, G, or H 215A, B, C, or D	201A, B, C, or D 211E, F, G, or H 213A, B, C, or E

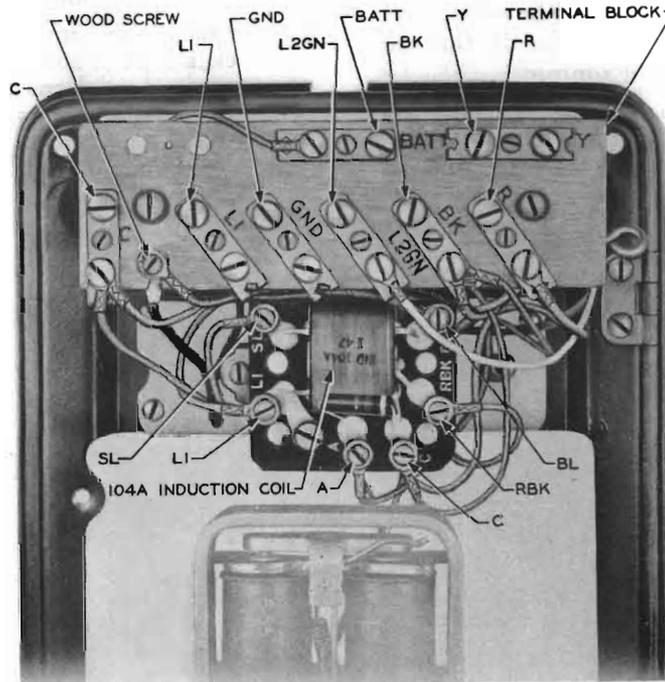


FIG. 2—634Y

TABLE C—CONNECTIONS

Wire or Lead	Individual or Bridged Party	Ring Party	Tip Party
Inside Wire from Protector or Line	Ring	L1	L1
	Tip	L2GN	L2GN
	GND	GND	GND
Ringer Lead	R	L1	GND
	BK	C	C
Ringing Capacitor Lead	R	C	C
	GN	L2GN	L2GN
Mounting Cord or Local Wiring	R	R	R
	Y	Y	Y
	BK	BK	BK
	GN	GN	GN

Extension stations without ringer shall be connected in the same way as the associated main station, except that both leads from the ringing capacitor shall be connected to terminal L2GN.

3.03 Circuit diagram of 634Y subscriber set when an individual source of transmitter battery supply is employed.

INSIDE WIRE FROM PROTECTOR OR LINE

RINGING CIRCUIT

TALKING CIRCUIT

MTG CORD OR LOCAL WIRING

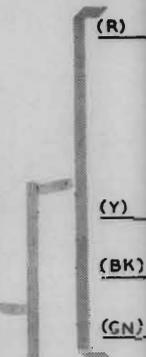
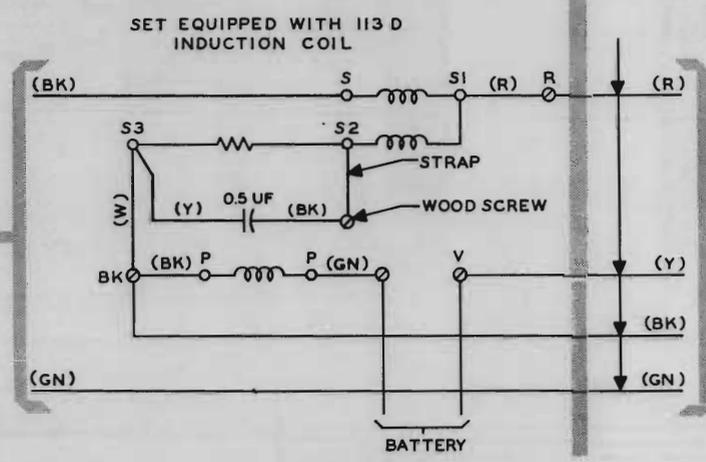
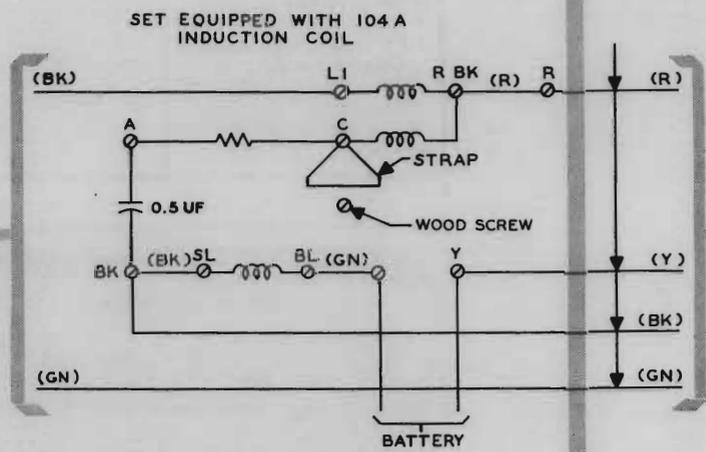
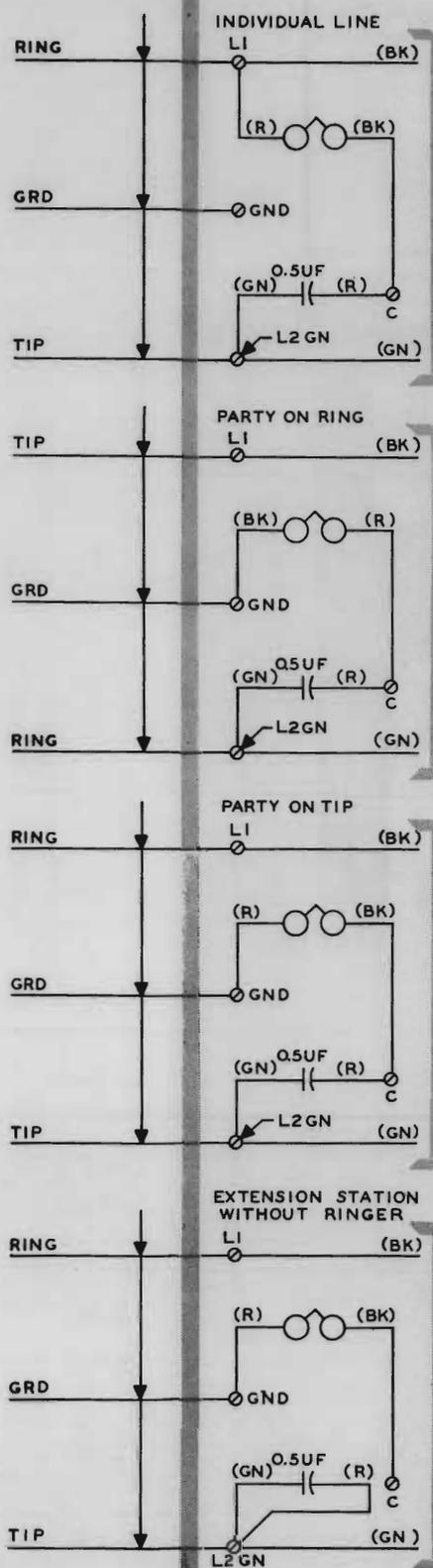


TABLE D—ASSOCIATED APPARATUS

Class of Service	Hand Telephone Set	
	Desk Type	Hang-up Type
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	207A, B, C, or D	211E, F, G, or H (Modified)

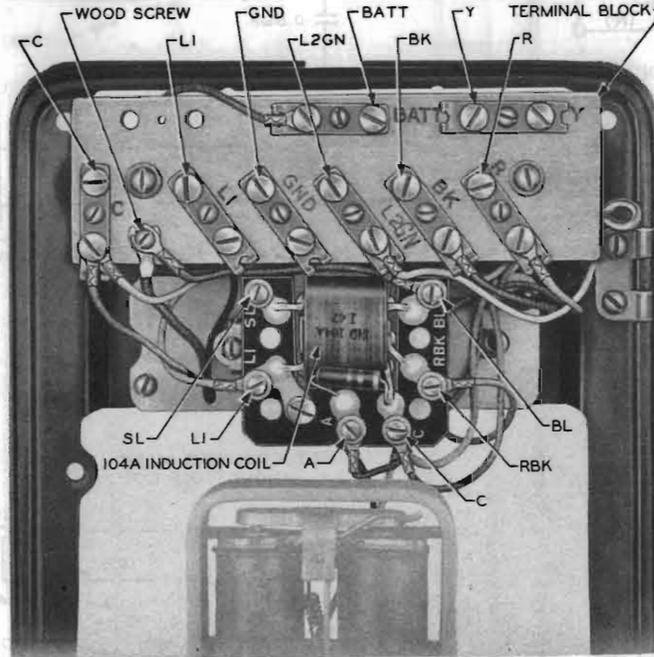


FIG. 3—634Y

TABLE E—CONNECTIONS

Wire or Lead		Individual or Bridged Party	Ring Party	Tip Party
Inside Wire from Protector or Line	Ring	L1	L2GN	L1
	Tip	L2GN	L1	L2GN
	GND	GND	GND	GND
Ringer Lead	R	L1	C	GND
	BK	C	GND	C
Ringing Capacitor Lead	R	C	C	C
	GN	L2GN	L2GN	L2GN
Mounting Cord or Local Wiring	R	R	R	R
	W	BK	BK	BK
	Y	Y	Y	Y
	BL	*	*	*
	GN	L2GN	L2GN	L2GN
	R-R	*	*	*

Extension stations without ringer shall be connected in the same way as the associated main station, except that both leads from the ringing capacitor shall be connected to terminal L2GN.

\*Use any spare terminal in set to which cords or wires and the lead from SL or P on induction coil may be connected together. If there is no unused terminal available, an extra terminal should be added to the set.

3.04 Circuit diagram of 634Y subscriber set when a common source of transmitter battery supply is employed.

