

SUBSCRIBER SETS—634YDT CONNECTIONS

I. GENERAL

1.01 This section covers connections for the 634YDT subscriber set when associated with hand telephone sets for local battery talking or common battery signaling service.

1.02 This section is reissued to add information on connections with ANI.

1.03 Tables B and D show hand telephone sets available for this subscriber set.

1.04 These sets come equipped with either a 104A or 113D induction coil (Fig. 1 and 2), but 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

1.05 Any one of four different network connections, A to D, may be made in the induction coil (Fig. 1 and 2) to obtain satisfactory sidetone balance. It may be necessary to change network connections when sets are used on different types of subscriber loops employed in the plant.

1.06 Unless otherwise specified, sets are furnished with the A network as shown in Fig. 1 and 2. Necessary changes in the set to obtain the other networks are as follows:

Set Equipped with 104A Induction Coil

- (a) Network B: Connect a KS-8058, L2, 390-ohm resistor between A on induction coil and BK. Connect BK lead from capacitor to wood screw.

Note: The 63FD or KS-8058, 280- or 400-ohm resistor, or KS-13490, L2, 300-ohm resistor is not furnished as part of the set and must be ordered separately.

- (b) Network C: Connect Y lead from capacitor to C on induction coil and connect one end of BK strap on C to wood screw.
- (c) Network D: Connect BK lead from capacitor to wood screw and connect one end of strap on C to BK.

Set Equipped with 113D Induction Coil

- (a) Network B: Connect a 63FD or KS-8058, 280- or 400-ohm resistor, or KS-13490, L2, 300-ohm resistor between S3 on induction coil and BK.

Note 1: To make this connection, connect the W lead from S3 on induction coil to any unused terminal on the set, and connect resistor between that terminal and BK. If there is no unused terminal, add an extra terminal to the set.

Note 2: The 63FD, or KS-8058, 280- or 400-ohm resistor, or KS-13490, L2, 300-ohm resistor is not furnished as part of the set and must be ordered separately.

- (b) Network C: Connect W lead from S3 on induction coil to wood screw and connect BK lead from capacitor to BK.
- (c) Network D: Connect strap from S2 in induction coil to BK.

1.07 When dry cells are employed for transmitter battery supply, connect in series with battery terminals of subscriber set (Fig. 1).



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1.08 When stations receive transmitter battery supply from a common source (Fig. 2), a filter is necessary in each transmitter circuit. This filter and its connections are covered in the section on battery supply filters.

2. CONNECTIONS

2.01 To connect the subscriber set to its associated hand telephone set, match appropriate circuit diagram (Fig. 1 or 2) with diagram in the section covering hand telephone set or coin collector connections. Wiring changes in the sub-

scriber set are sometimes required; therefore, follow connection tables closely.

3. CONNECTION TABLES INDEX

Table A — Connections — Severe Induction

Table B — Associated Sets (Table C)

Table C — Connections — Individual Transmitter Battery

Table D — Associated Sets (Table E)

Table E — Connections — Common Transmitter Battery

TABLE A
CONNECTIONS — SEVERE INDUCTION

Party		Line		Ringer			Electron Tube				Tube	
		Ring	Tip	GND	R	BK	R	GN	BK	Y		
Ring	Pos	L2	L1	GND	K	L2	L1	L2	GND	K	425A	
Tip		L1	L2				L2	GND				
Ring	Neg	L2	L1			GND	L2	L1	L2			
Tip		L1	L2					L1	L2			

Note: For additional information concerning induction, refer to section covering inductive noise.

TABLE B
ASSOCIATED SETS (TABLE C)

Class of Service	Hand Telephone Set	
	Desk Type	Hangup Type
4-Party Selective	202E, F, G, or H	201A, B, C, or D
8-Party Semiselective	215A, B, C, or D	211E, F, G, or H 213A, B, C, or E

TABLE C
CONNECTIONS — INDIVIDUAL TRANSMITTER BATTERY

Wire or Lead		Negative (-) Parties		Positive (+) Parties	
		Ring Positions 1 and 5	Tip Positions 2 and 6	Ring Positions 3 and 7	Tip Positions 4 and 8
Inside Wire from Protector or Line	Ring	L2GN	L1	L2GN	L1
	Tip	L1	L2GN	L1	L2GN
	GRD	GND	GND	GND	GND
Ringer Lead	R	GND	GND	L2GN	L2GN
	BK	K	K	K	K
Electron Tube Lead	R	L1	L1	L2GN	L2GN
	Y	L2GN	L2GN	GND	GND
	BK	K	K	K	K
Mounting Cord or Local Wiring	R	R	R	R	R
	Y	Y	Y	Y	Y
	BK	BK	BK	BK	BK
	GN	L2GN	L2GN	L2GN	L2GN

Note: Connect both ringer leads to terminal K in extension stations without ringer. Otherwise, connect in same way as the associated main station.

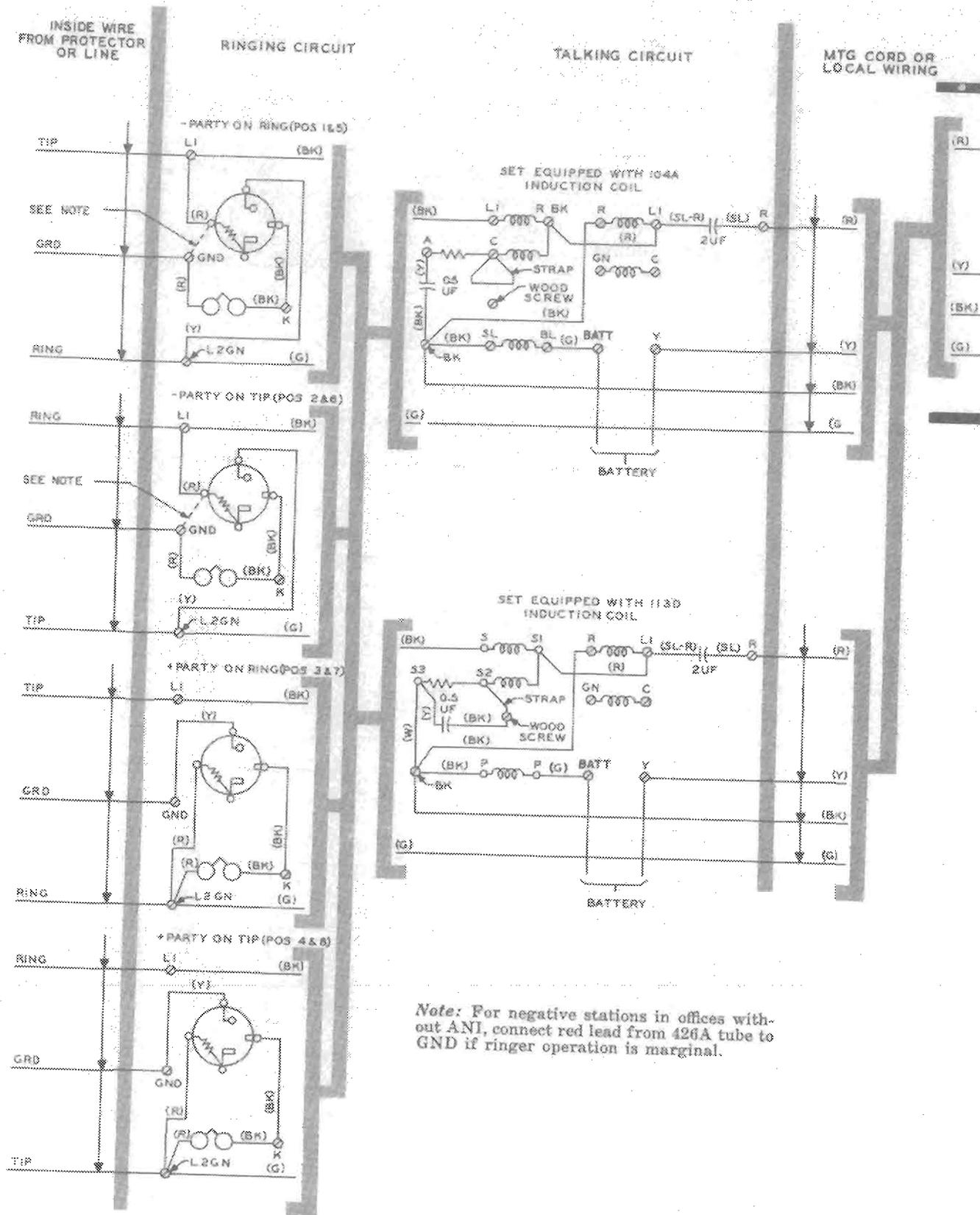


Fig. 1 - 634YDT Subscriber Set, Individual Transmitter Battery

TABLE D
ASSOCIATED SETS (TABLE E)

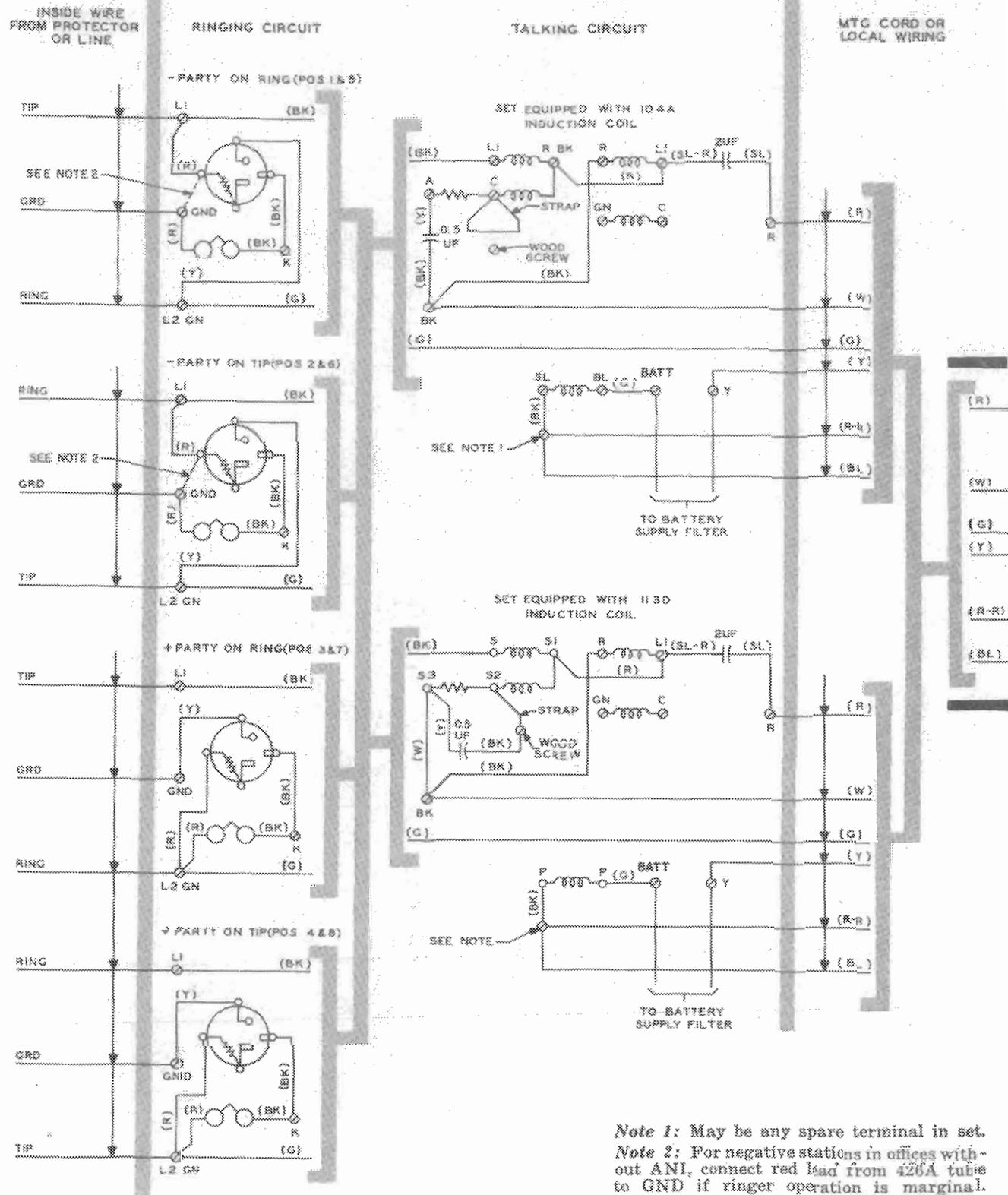
Class of Service	Hand Telephone Set	
	Desk Type	Hangup Type
4-Party Selective 8-Party Semiselective	207A, B, C, or D	211E, F, G, or H (Modified)

TABLE E
CONNECTIONS — COMMON TRANSMITTER BATTERY

Wire or Lead		Negative (-) Parties		Positive (+) Parties	
		Ring Positions 1 and 5	Tip Positions 2 and 6	Ring Positions 3 and 7	Tip Positions 4 and 8
Inside Wire from Protector or Line	Ring	L2GN	L1	L2GN	L1
	Tip	L1	L2GN	L1	L2GN
	GRD	GND	GND	GND	GND
Ringer Lead	R	GND	GND	L2GN	L2GN
	BK	K	K	K	K
Electron Tube Lead	R	L1	L1	L2GN	L2GN
	Y	L2GN	L2GN	GND	GND
	BK	K	K	K	K
Mounting Cord or Local Wiring	R	R	R	R	R
	W	BK	BK	BK	BK
	Y	Y	Y	Y	Y
	BL	*	*	*	*
	GN	L2GN	L2GN	L2GN	L2GN
	RR	*	*	*	*

Note: Connect both ringer leads to terminal K in extension stations without ringer. Otherwise, connect in same way as the associated main station.

* Connect lead from SL or P on induction coil to mounting cord leads or local wiring, using any spare terminal. If there is no unused terminal available, add extra terminal to set.



Note 1: May be any spare terminal in set.
Note 2: For negative stations in offices without AN1, connect red lead from 426A tube to GND if ringer operation is marginal.

Fig. 2 - 634YDT Subscriber Set, Common Transmitter Battery



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