

TELEPHONE SETS — 501F (TUBE SET)
COMMON BATTERY — CONNECTIONS

1.00 INTRODUCTION

This section covers the combination of apparatus, circuit diagrams, and connections for the 501F telephone set.

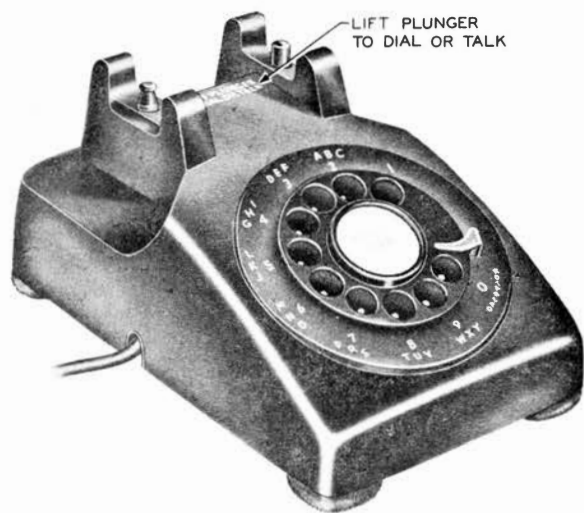


FIG. 1—501 TYPE

TABLE A
COMBINATION OF APPARATUS

Tel. Set Code	Use	Components				
		Dial	Handset	Ringer	Network	Electron Tube
501F	Dial Only	7D	G1A	C4A	425B	426A

2.00 CONNECTIONS

TABLE B
LINE AND RINGER CONNECTIONS

Conductor 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
Mounting Cord in Set	R	L2	L2	L2
	GN	L1	L1	L1
	Y	G	G	G
Ringer Lead	R	G	L2	L2
	BK	G	L2	L2
	SL	A	A	A
	SL-R	K	K	K
Tube Lead	R	G	L2	L2
	BK	K	K	K
	Y	L2	G	G
Mounting Cord at Connecting Block	R	R	R	G
	GN	G	G	R
	Y	Y	Y	Y
Line Wire at Connecting Block	R	R	R	R
	GN	G	G	G
	Y	Y	Y	Y

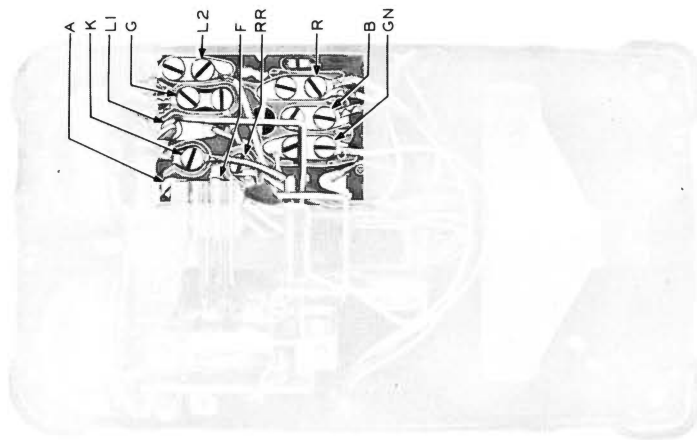


FIG. 2—501F (WITH DIAL REMOVED)

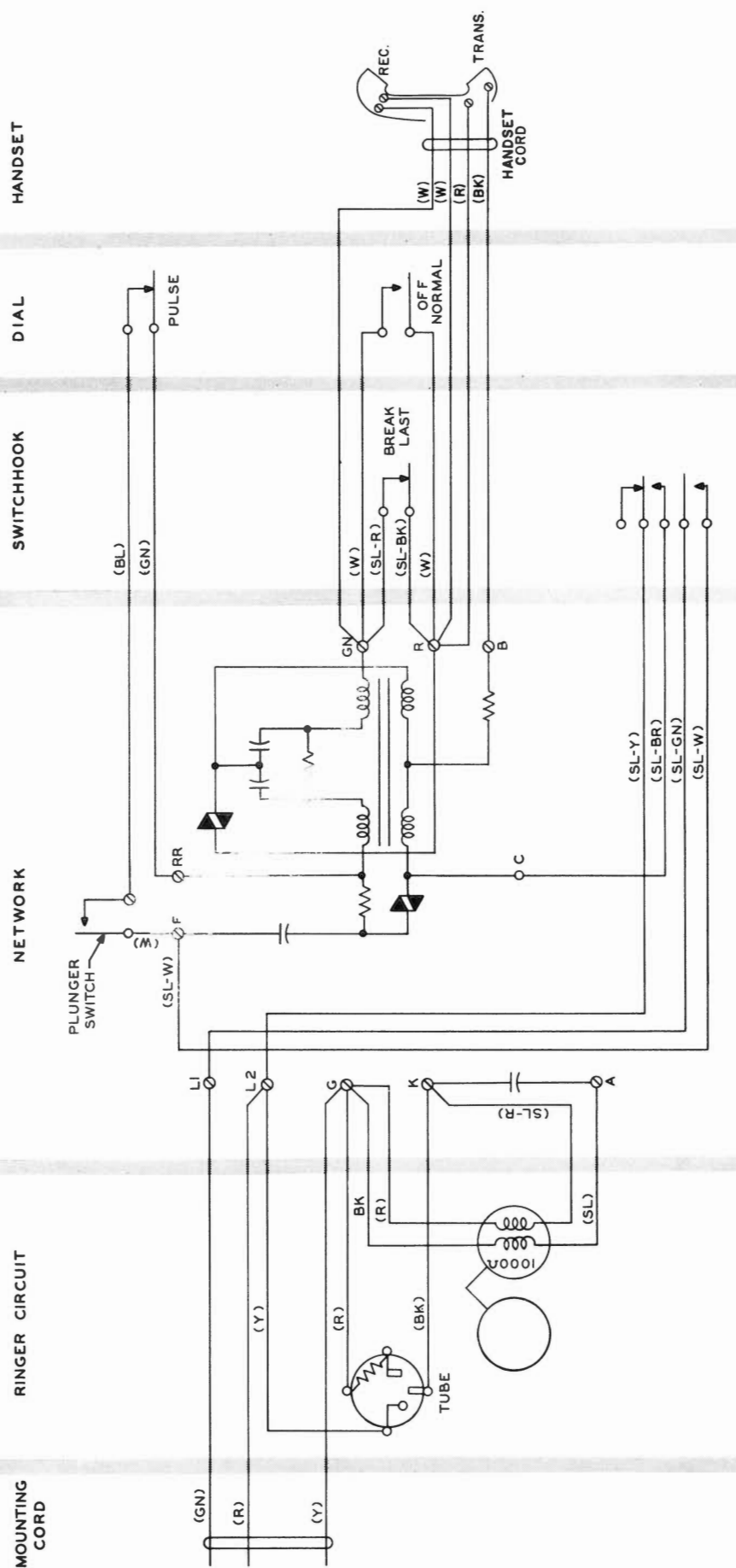
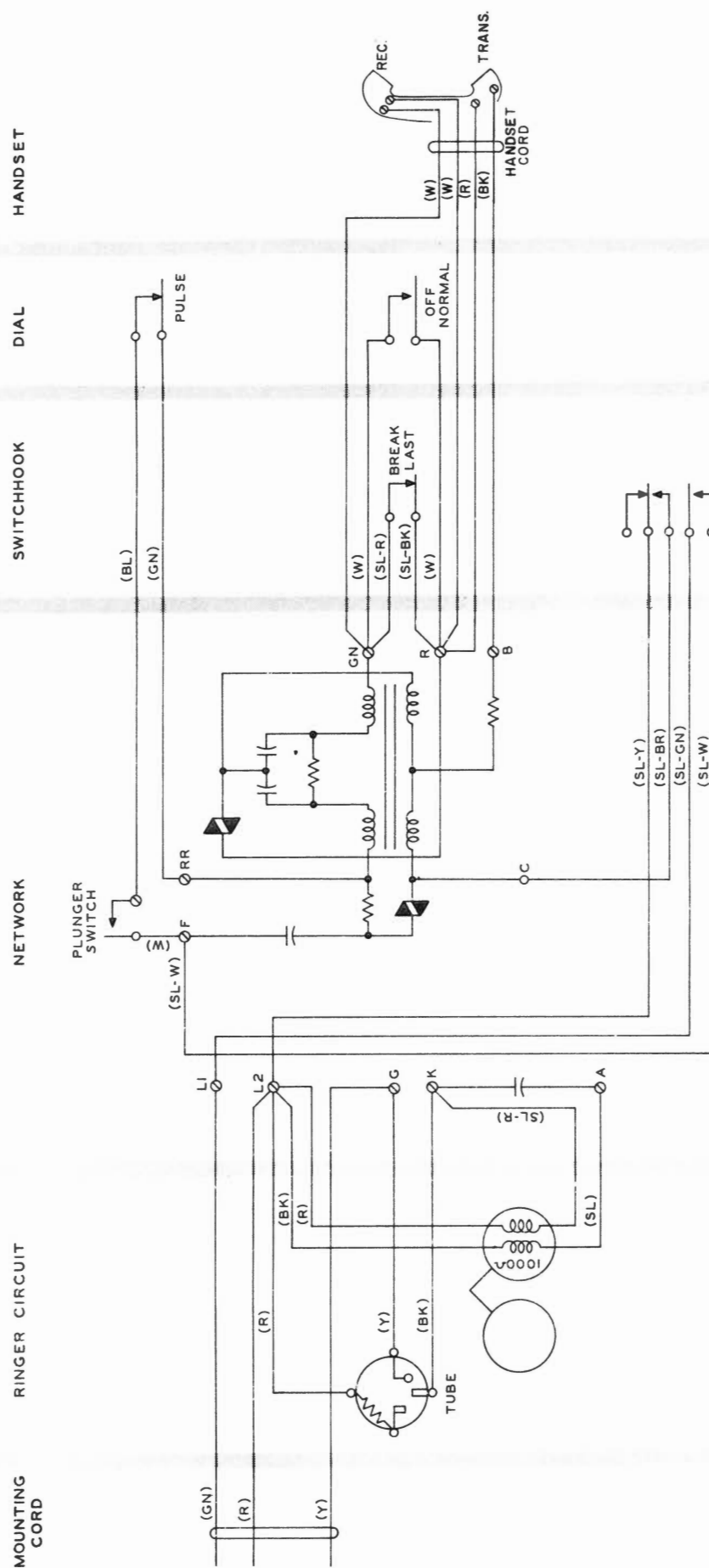


FIG. 3—501F CIRCUIT DIAGRAM
(NEGATIVE RING AND TIP PARTIES)



**FIG. 4—501F CIRCUIT DIAGRAM
(POSITIVE RING AND TIP PARTIES)**

3.00 RINGERS

3.01 To permanently silence the ringer, terminate ringer leads as shown in the following table:

TABLE C—RINGER LEAD CONNECTIONS

Class of Ringing Service	Ringer Lead			
	Red	Black	Slate	SI-Red
Negative Ring and Tip Parties—C4A Ringer	K	K	A	K
Positive Ring and Tip Parties—C4A Ringer				

3.02 The ringing bridge is the high-impedance type. For information on the number and type of ringing bridges permitted on each line, reference should be made to the C Section covering ringer limitations.

4.00 INDUCTIVE INTERFERENCE

4.01 When inductive interference is encountered at a station, substitute a 425A tube in accordance with the following table:

TABLE D—TUBE CONNECTIONS

Conductor or Lead		Average Induction				Severe Induction			
		Negative (—) Parties		Positive (+) Parties		Negative (—) Parties		Positive (+) Parties	
		Ring Positions 1 and 5	Tip Positions 2 and 6	Ring Positions 3 and 7	Tip Positions 4 and 8	Ring Positions 1 and 5	Tip Positions 2 and 6	Ring Positions 3 and 7	Tip Positions 4 and 8
425A Tube	R	—	—	L2	L2	L1	L1	L2	L2
	GN	—	—	L1	L1	L2	L2	L1	L1
	BK	—	—	K	K	K	K	K	K
	Y	—	—	G	G	L2	L2	G	G
426A Tube	R	L1	L1	—	—	—	—	—	—
	BK	K	K	—	—	—	—	—	—
	Y	L2	L2	—	—	—	—	—	—

4.02 For additional information concerning induction, reference should be made to the C Section covering inductive noise.