TELEPHONE SETS — 500H (TUBE SET, ILLUMINATED DIAL)

COMMON BATTERY — CONNECTIONS

1.00 INTRODUCTION

This section covers the combination of apparatus, circuit diagrams, and connections for the 500H (with tube) telephone sets.

FIG. 1—500 TYPE (WITH TUBE)

TABLE A
COMBINATION OF APPARATUS

Tel. Set Code	Use	Components				
		Dial	Handset	Ringer	Network	Electron Tube
500H (with tube)	Dial Only	7C	G1A	C4A	425B	426A

2.00 CONNECTIONS

TABLE B
LINE AND RINGER CONNECTIONS

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

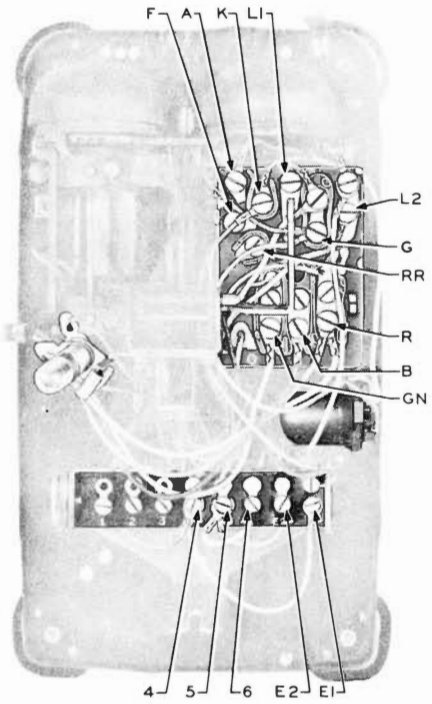

FIG. 2—500H TYPE
(WITH DIAL REMOVED)

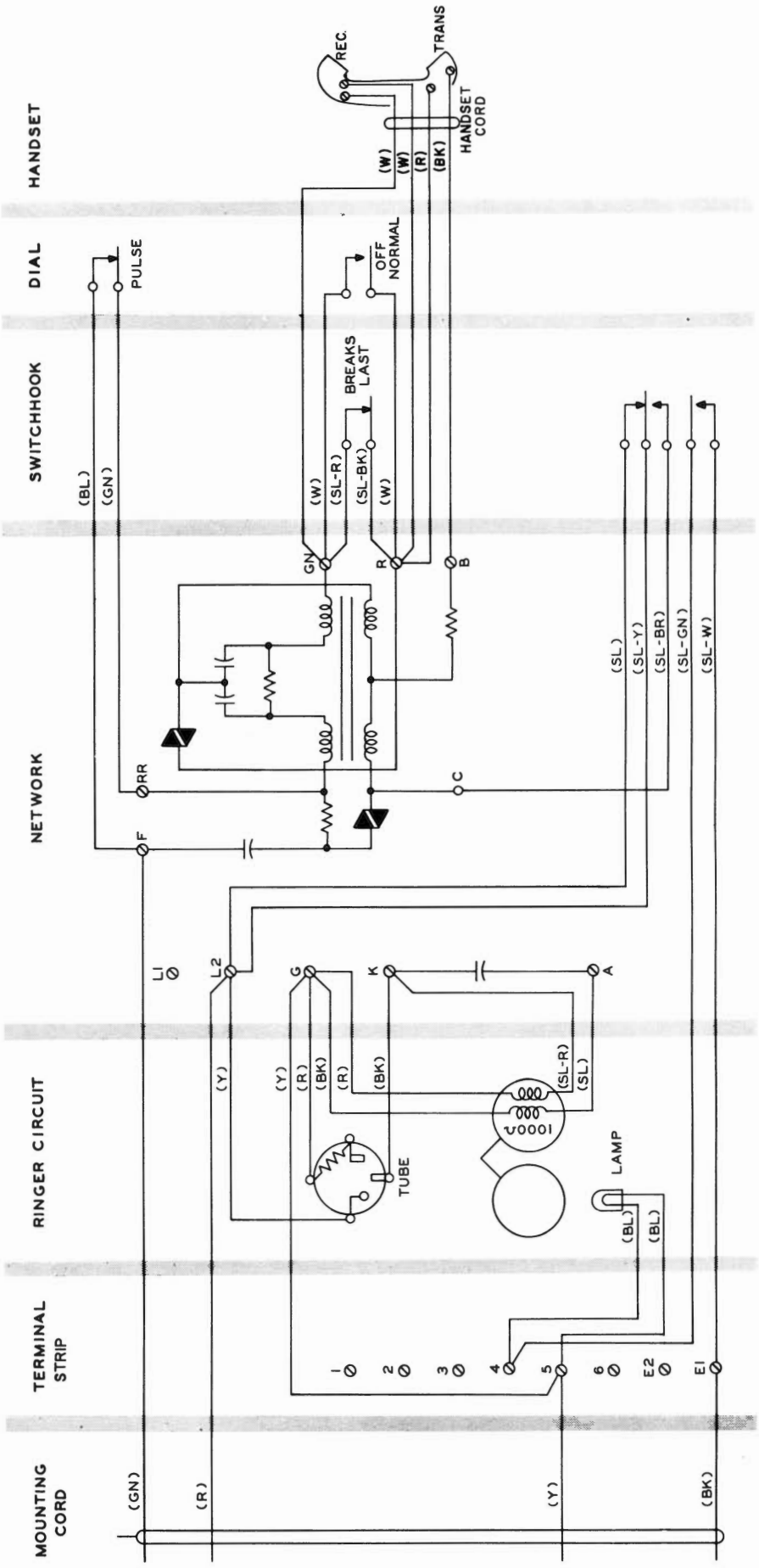

FIG. 3—500H (WITH TUBE) CIRCUIT DIAGRAM
(NEGATIVE RING AND TIP PARTIES)

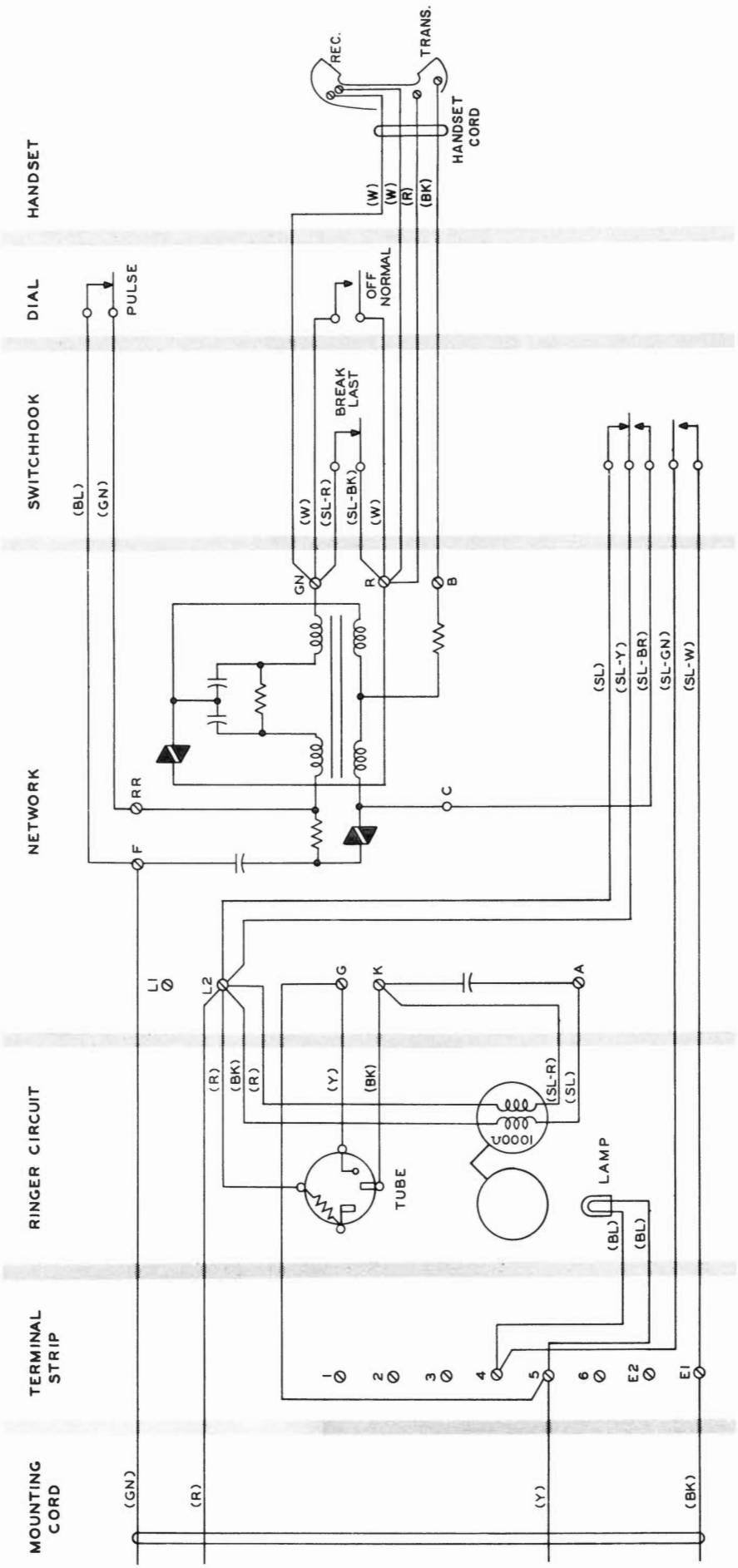

FIG. 4—500H (WITH TUBE) CIRCUIT DIAGRAM
(POSITIVE RING AND TIP PARTIES)

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	Sl-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 LEAD CONNECTIONS

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, see the C Section covering inductive noise.