

TELEPHONE SETS — 533A,B (AMPLIFIER SETS)
COMMON BATTERY — CONNECTIONS

1.00 INTRODUCTION

This section covers the combination of apparatus, circuit diagrams, and connections for the 533A and B telephone sets.



FIG. 1—533 TYPE

TABLE A
COMBINATION OF APPARATUS

Tel. Set Code	Use	Components							
		Dial	Apparatus Blank	Handset	Ringer	Network	Electron Tube	Varistor	Amplifier
533A	Manual	—	95A	G1A	C4A	425B	426A	419A	151A or 151B
533B	Dial	7D	—						

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
	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

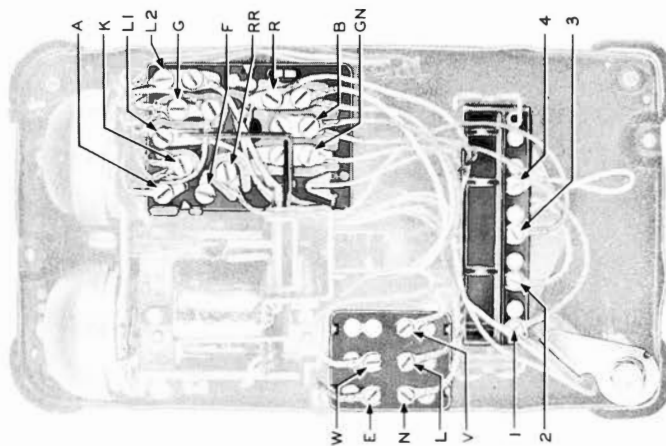
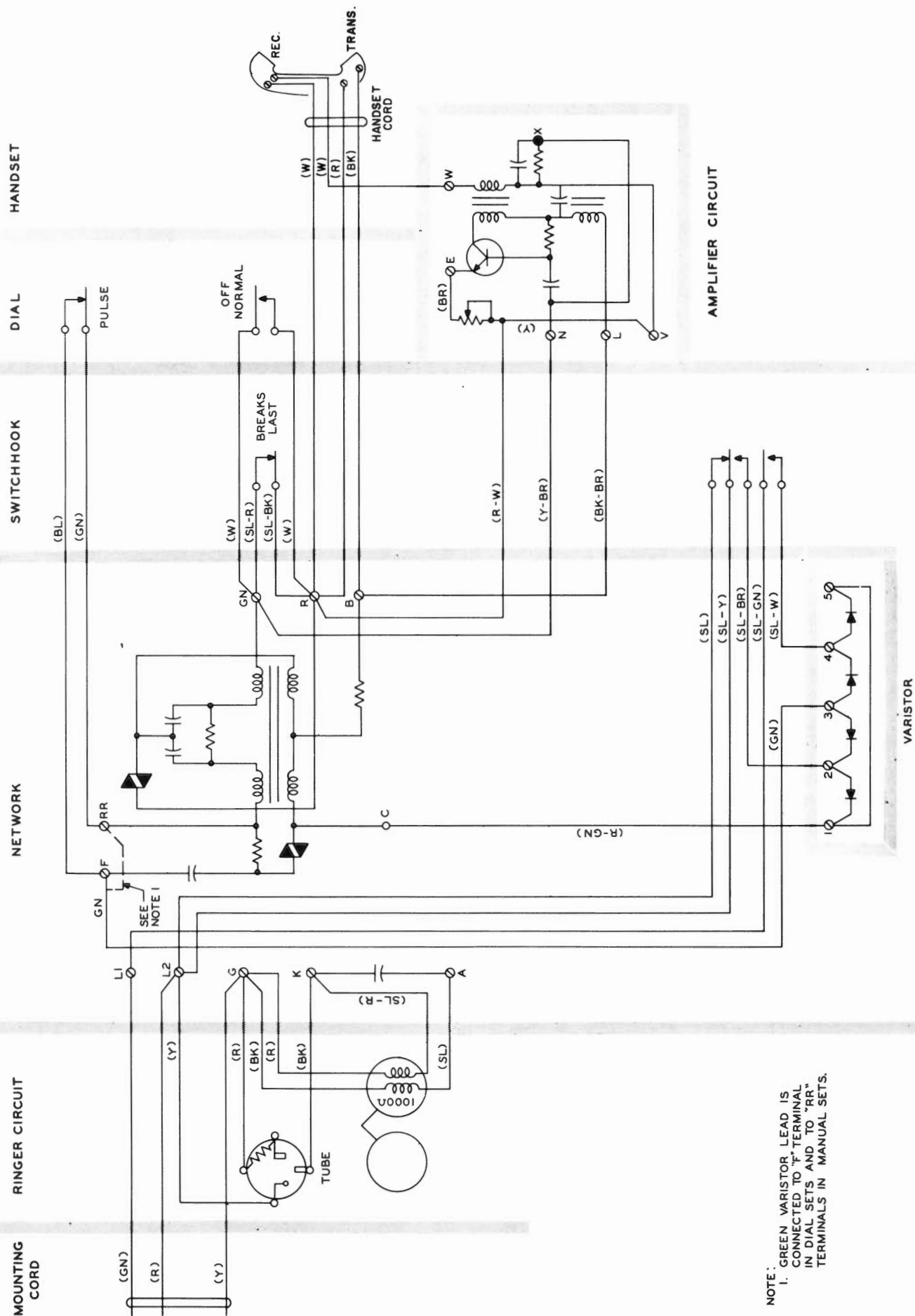


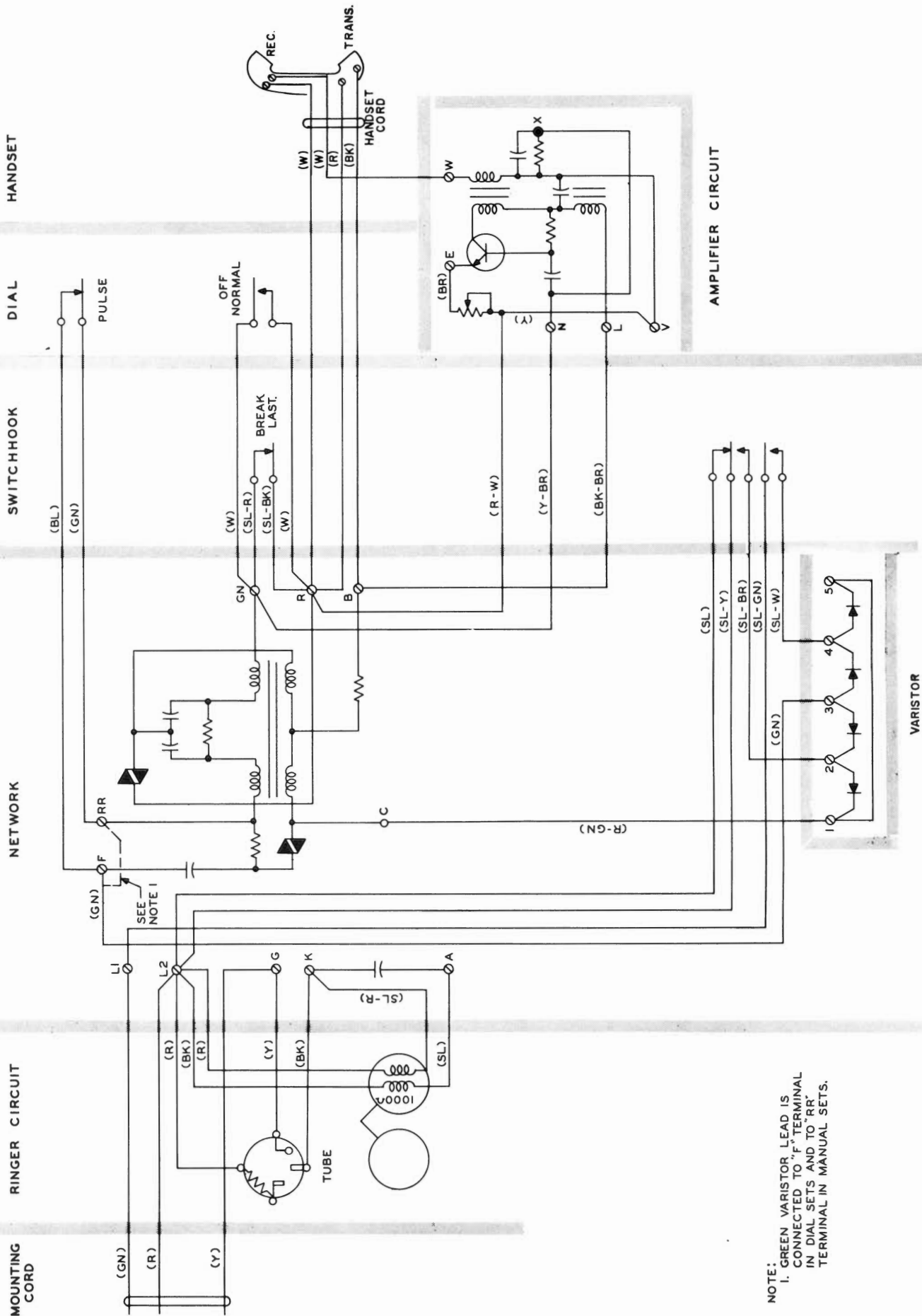
FIG. 2—533A,B (WITH DIAL REMOVED)



NOTE:
1. GREEN VARISTOR LEAD IS
CONNECTED TO "F" TERMINAL
IN DIAL SETS AND TO "RR"
TERMINALS IN MANUAL SETS.

FIG. 3—533A,B CIRCUIT DIAGRAM
(WITH DIAL REMOVED)

VARISTOR



NOTE:
1. GREEN VARISTOR LEAD IS
CONNECTED TO "F" TERMINAL
IN DIAL SETS AND TO "RR"
TERMINAL IN MANUAL SETS.

FIG. 4—533A,B CIRCUIT DIAGRAM
(POSITIVE RING AND TIP PARTIES)

3.00 RINGERS

3.01 To permanently silence the ringer, terminate the 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 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, reference should be made to the C Section covering inductive noise.