BELL SYSTEM PRACTICES
Station Operations Manual
Station Sets

SECTION C38.637
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AT&TCo Standard

TELEPHONE SETS — 554A,B

COMMON BATTERY — CONNECTIONS

1.00 INTRODUCTION

This section covers the combination of apparatus, circuit diagrams, and connections for the 554A and B telephone sets.

FIG. 1—554 TYPE

TABLE A
COMBINATION OF APPARATUS

Hand Tel. Set Code	Use	Components				
		Dial	Apparatus Blank	Handset	Ringer	Network
554A	Manual	—	95B	G1A	C4A	425B
554B	Dial	7D	—	G1A	C4A	425B

TABLE B
LINE AND RINGER CONNECTIONS

Wire or Lead		Individual or Bridged	Ring Party Positions 1, 3, 5, 7, 9	Tip Party Positions 2, 4, 6, 8, 10	Tip Party—Position 2	
					Message Rate Zone Registration X-bar with AMA	SxS with AT SxS with AMA Mod X-bar with AMA
Line Wire in Set	R	L2	L2	L1	L1	L1
	GN	L1	L1	L2	L2	L2
	Y	G	G	G	G	G
Ringer Leads	R	L2	L2	L2	K	B
	BK	L1	G	G	G	B
	SL	K	K	K	B	K
	SR	A	A	A	B	G
Switchhook Lead		L2	L2	L2	A	A

GN
B
R
RR
F
L2
G
LI
K
A

FIG. 2—554A,B

LINE WIRE   RINGER CIRCUIT   NETWORK   DIAL   SWITCH HOOK   HANDSET

(SEE NOTE 1)

(BL)
F   RR   (GN)
PULSE

RING (R)   (SEE NOTE 2)
L2
(R)
GRD (Y)
G
(BK)
(SEE NOTE 3)

1000Ω

GN   (W)   (SL-R)   BREAK LAST   REC
R   (W)   OFF NORMAL   (SL-BK)
(SL)   K
B   (W)
(SL-R)   A   C   (SL-BR)   TRANS
(W)
(R)
(BK)
HANDSET CORD

TIP (GN)   (SEE NOTE 2)
L1   (SL-GN)
(SL-Y)
(SL)
(SL-W)
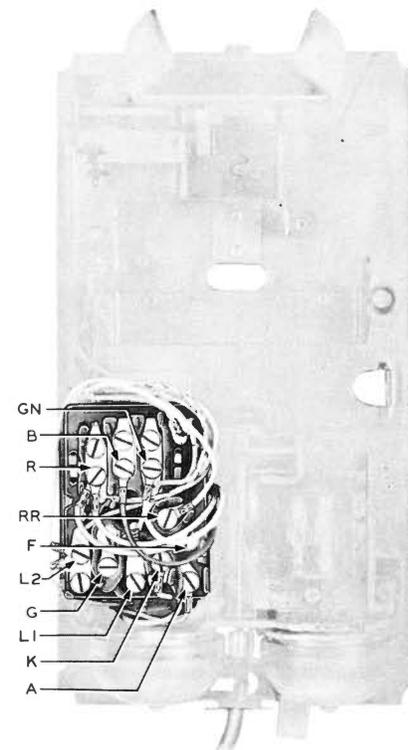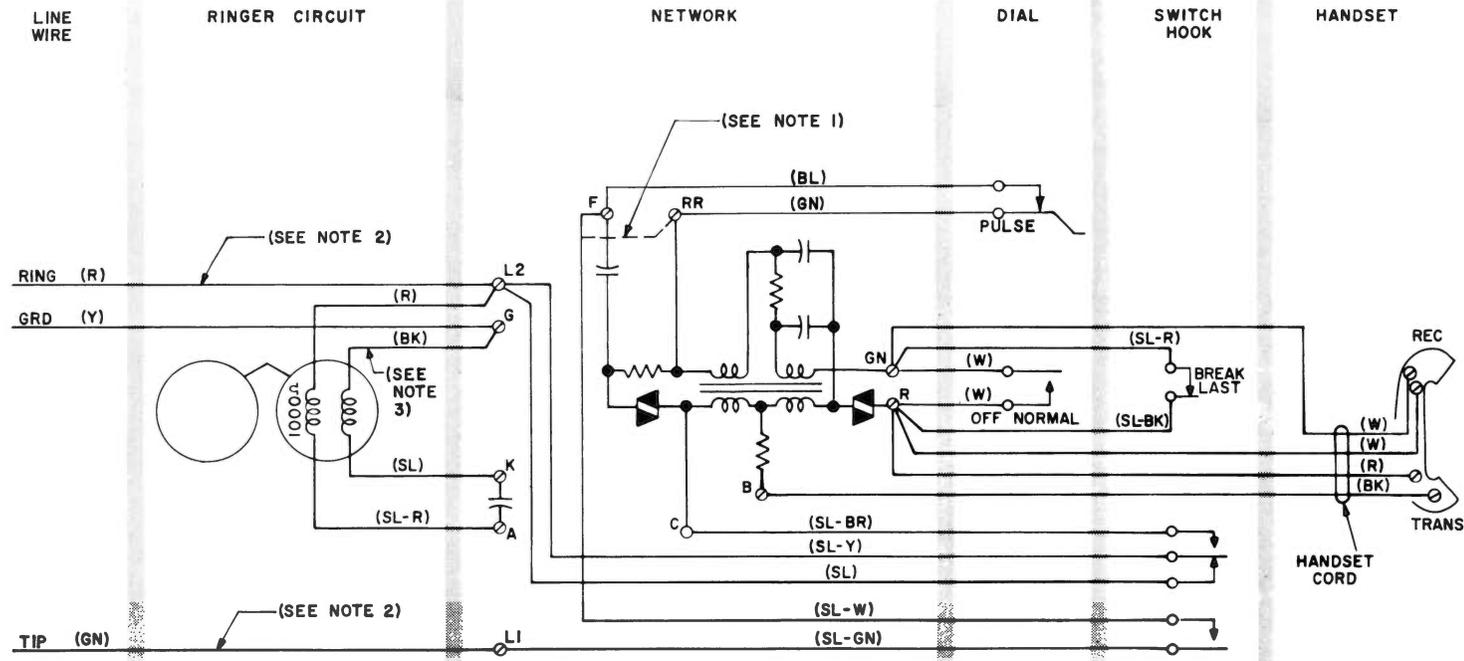
NOTES:
1. SLATE-WHITE LEAD IS CONNECTED TO "F" TERMINAL IN DIAL SETS AND TO "RR" TERMINAL IN MANUAL SETS.
2. FOR TIP-PARTY, CONNECT GREEN LINE WIRE ON "L2" TERMINAL AND RED LINE WIRE ON "L1" TERMINAL.
3. FOR INDIVIDUAL OR BRIDGED SERVICE, TERMINATE BLACK RINGER LEAD ON "L1" TERMINAL.

FIG. 3—554A,B CIRCUIT DIAGRAM
(INDIVIDUAL RING AND TIP PARTIES)

LINE WIRE RINGER CIRCUIT NETWORK DIAL SWITCH HOOK HANDSET

(BL)
(GN)
PULSE

F RR

GRD (Y)
(BK) G
(R) K
A

GN (W)
(W)
OFF NORMAL

(SL-R)
BREAK LAST
(SL-BK)

R

REC

(SL-R)
(SL)
B

(W)
(W)
(R)
(BK)

TRANS

C (SL-BR)
TIP(GN) L 2 (SL-Y)
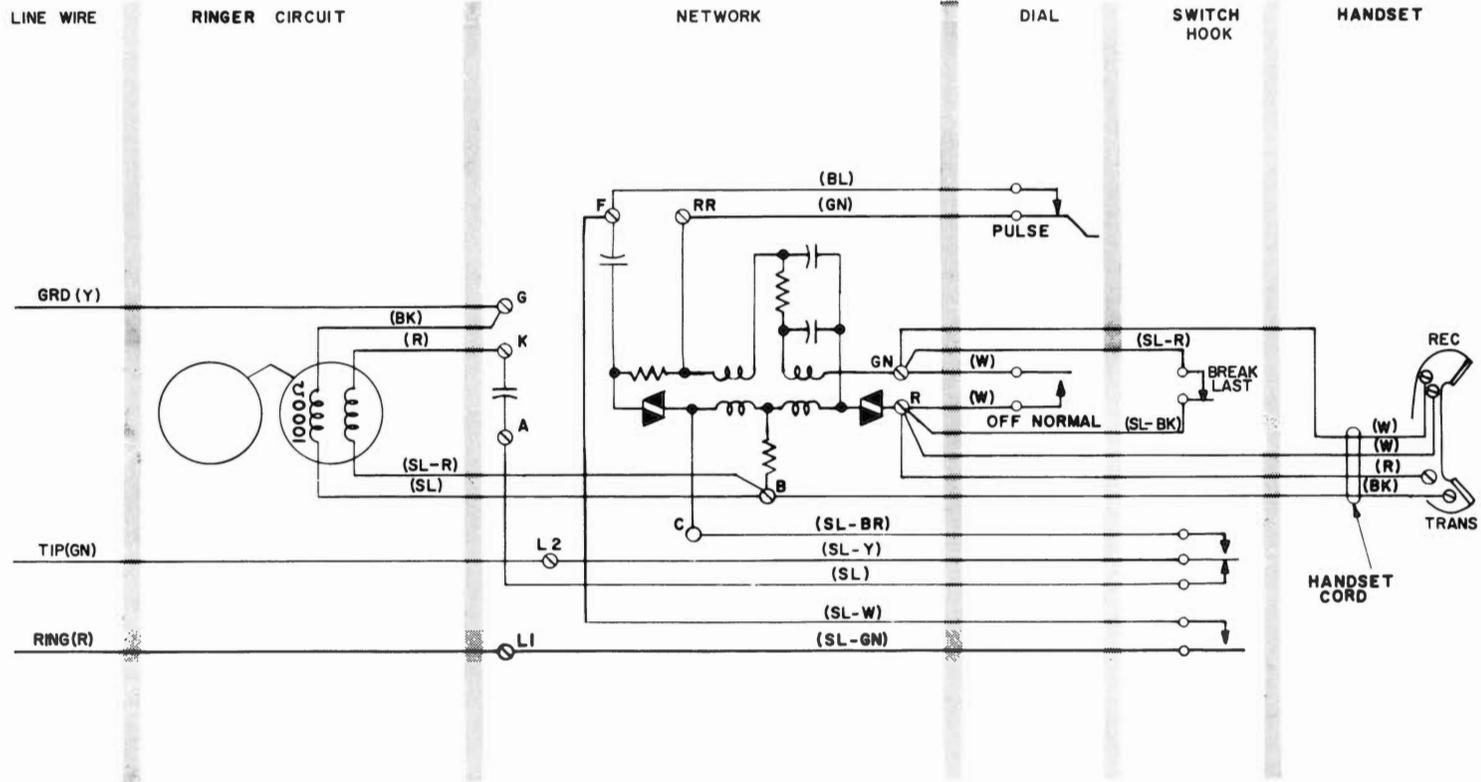(SL)

HANDSET CORD

(SL-W)
RING(R) LI (SL-GN)

FIG. 4—554A,B CIRCUIT DIAGRAM
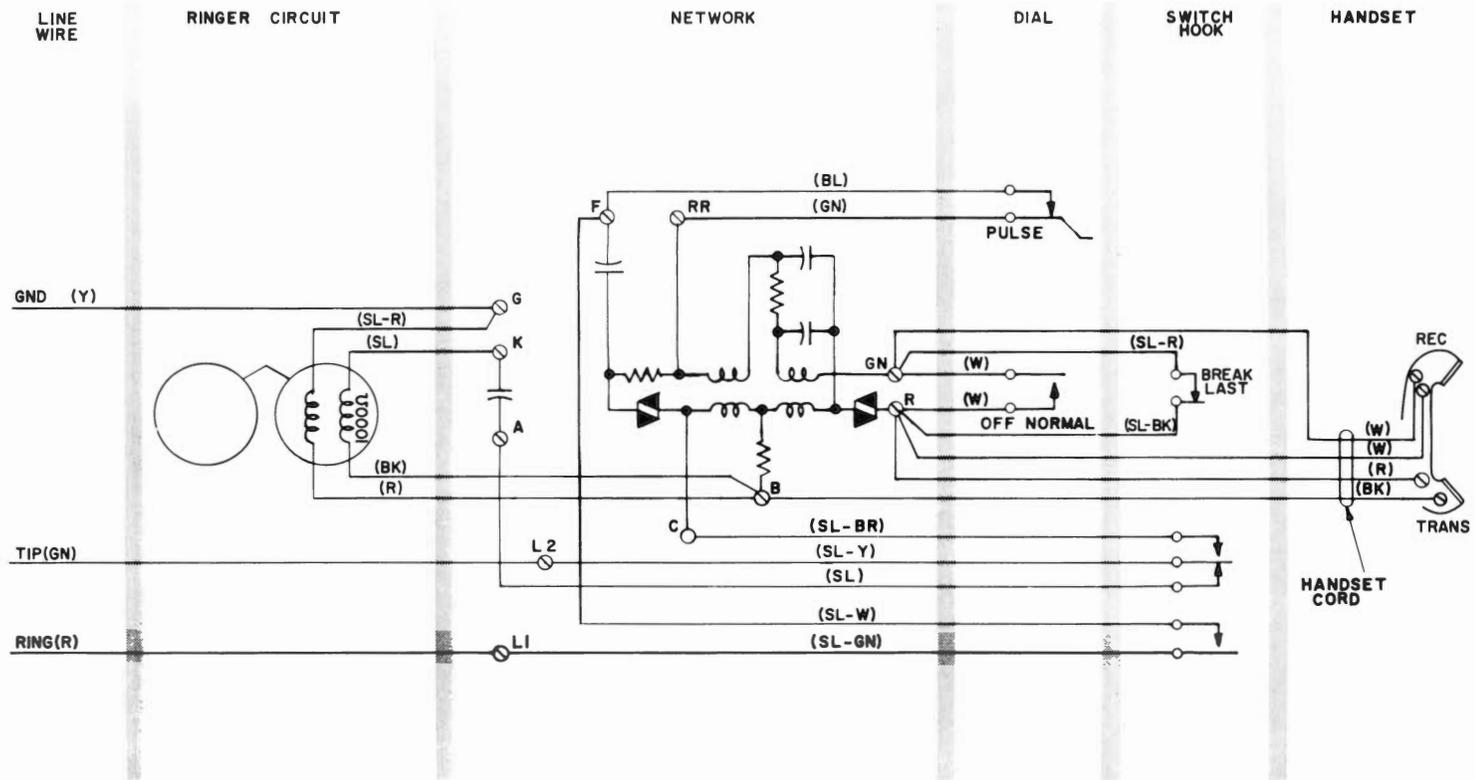(MESSAGE RATE, ZONE REGISTRATION, X-BAR WITH AMA)

FIG. 5—554B CIRCUIT DIAGRAM
(SxS WITH AT, SxS WITH AMA, MODIFIED X-BAR WITH AMA)

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 Leads			
	Red	Black	Slate	Sl-Red
Individual or Bridged Ring Party `Tip Party	L2	K	K	A
Tip Party Message Rate Zone Registration X-bar with AMA	K	G	B	K
Tip Party SxS with AT SxS with AMA Mod X-bar with AMA	B	K	K	G

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.