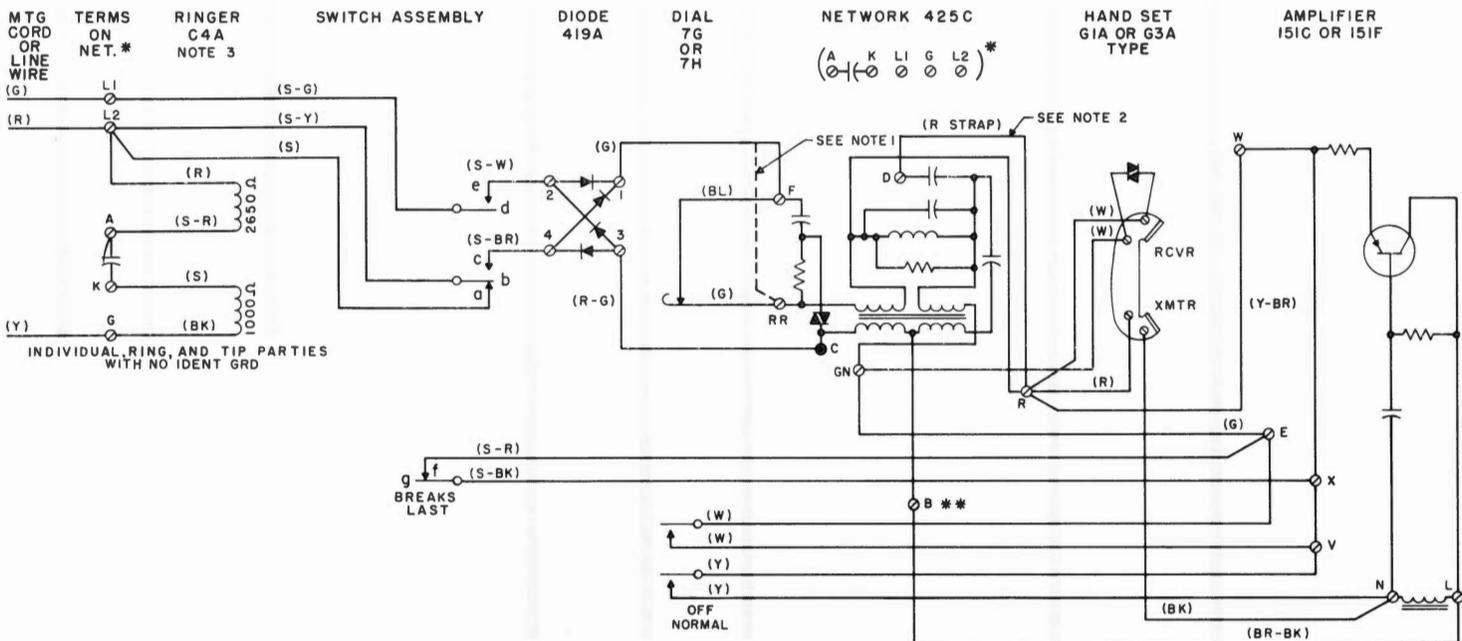


TELEPHONE SETS — 507A, B; 509A, B; 557A, B; AND 559A, B  
(AMPLIFIER SETS FOR LONG LOOPS) COMMON BATTERY — CONNECTIONS



\*\*Same terminal appears on ringer connection.

**Note 1:** Green varistor lead is connected to F terminal in dial sets and to RR terminal in manual sets.

**Note 2:** When unusually high sidetone is experienced, transfer R STRAP from D terminal to R terminal.

**Note 3:** To silence ringer, connect yellow mounting cord lead to same terminal as red mounting cord lead at connecting block.

TABLE A  
507A, B LINE AND RINGER CONNECTIONS

Wire or Lead		Individual or Bridged	Ring Party	No Ident Grd
Mounting Cord in Set	R	L2	L2	L2
	G	L1	L1	L1
	Y	G	G	G
Ringer Leads	R	L2	L2	L2
	BK	G	G	G
	S	K	K	K
Switchhook Leads	S-R	A	A	A
	S	L2	L2	L2
	R	R	R	G
Mounting Cord at Connecting Block	G	G	G	R
	Y	G	Y	Y
	R	R	R	R
Line Wire at Connecting Block	Tip	G	G	G
	Ring	R	R	R
	Grd	Y	Y	Y

TABLE B  
557A, B LINE AND RINGER CONNECTIONS

Wire or Lead		Individual or Bridged	Ring Party	No Ident Grd
Line Wire in Set	R	L2	L2	L1
	G	L1	L1	L2
	Y	G	G	G
Ringer Leads	R	L2	L2	L2
	BK	L1	G	G
	S	K	K	K
Switchhook Lead	SR	A	A	A
	S	L2	L2	L2

Fig. 1 — 507A, B; 557A, B Telephone Sets, Individual Ring and Tip Parties with No Identifying Ground

MTG CORD OR LINE WIRE

TERMS ON NET. #

RINGER C4A NOTE 2

SWITCH ASSEMBLY

DIAL 7G OR 7H

NETWORK 425C

(A K L1 G L2)\*

HAND SET GIA OR G3A TYPE

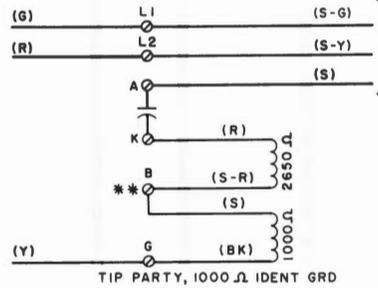
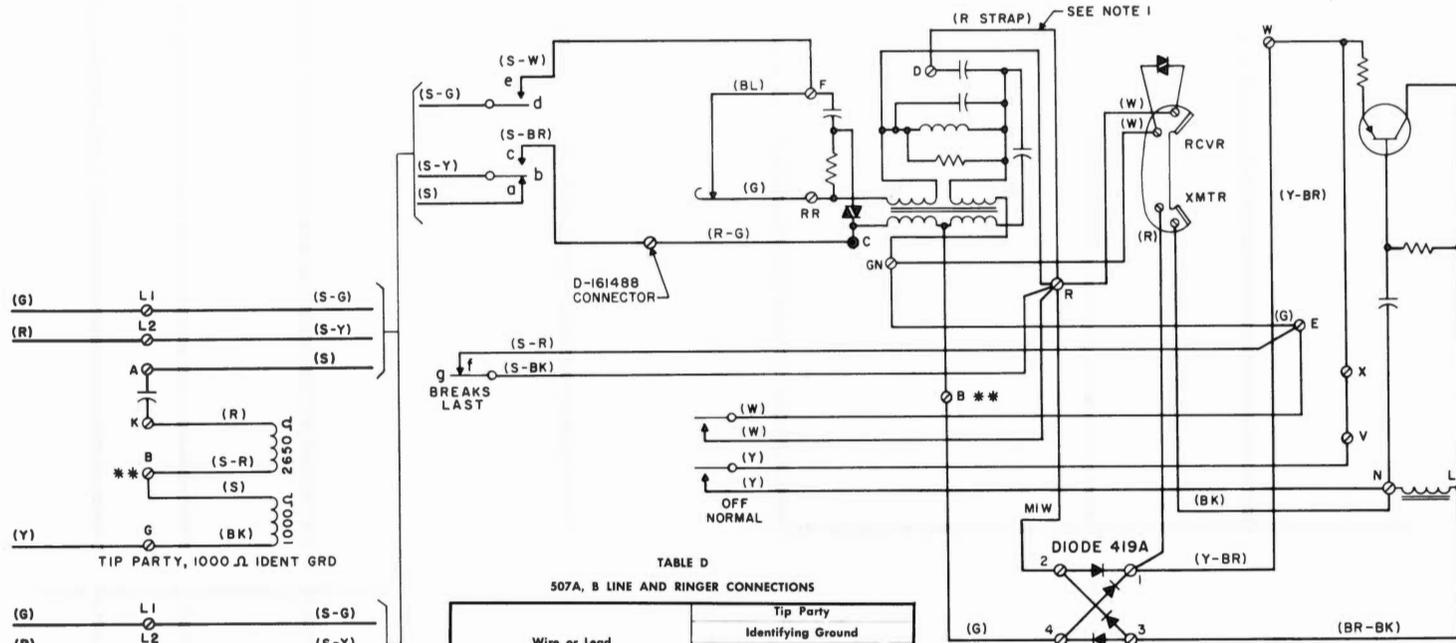
AMPLIFIER 15IC OR 15IF

\*\*Same terminal appears on ringer connection.

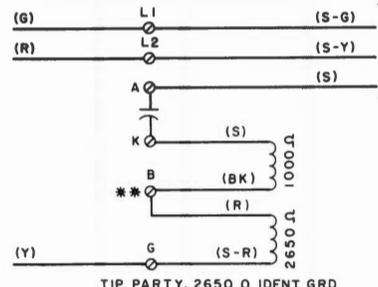
Note 1: When unusually high sidetone is experienced, transfer R STRAP from D terminal to R terminal.

Note 2: To silence ringer, connect yellow mounting cord lead to same terminal as red mounting cord lead at connecting block.

Note 3: In Tables C and D, when moving the S switchhook lead from L2 to A be sure the lead does not contact the metal housing of the network; otherwise, the finger stop of the desk set or finger stop and handset cradle of the wall set will be energized by ringing current.



TIP PARTY, 1000 Ω IDENT GRD



TIP PARTY, 2650 Ω IDENT GRD

TABLE C  
557A, B LINE AND RINGER CONNECTIONS

Wire or Lead		Tip Party Identifying Ground ohms	
		1000	2650
		Line Wire in Set	R
	G	L2	L2
	Y	G	G
Ringer Leads	R	K	B
	BK	G	B
	S	B	K
	SR	B	G
Switchhook Lead	S	A*	A*

\* See Note 3.

TABLE D  
507A, B LINE AND RINGER CONNECTIONS

Wire or Lead		Tip Party Identifying Ground ohms	
		1000	2650
		Mounting Cord in Set	R
	G	L1	L1
	Y	G	G
Ringer Leads	R	K	B
	BK	G	B
	S	B	K
	S-R	B	G
Switchhook Leads	S	A*	A
Mounting Cord at Connecting Block	R	G	G
	G	R	R
	Y	Y	Y
Line Wire at Connecting Block	Ring	R	R
	Tip	G	G
	Grd	Y	Y

\* See Note 3.

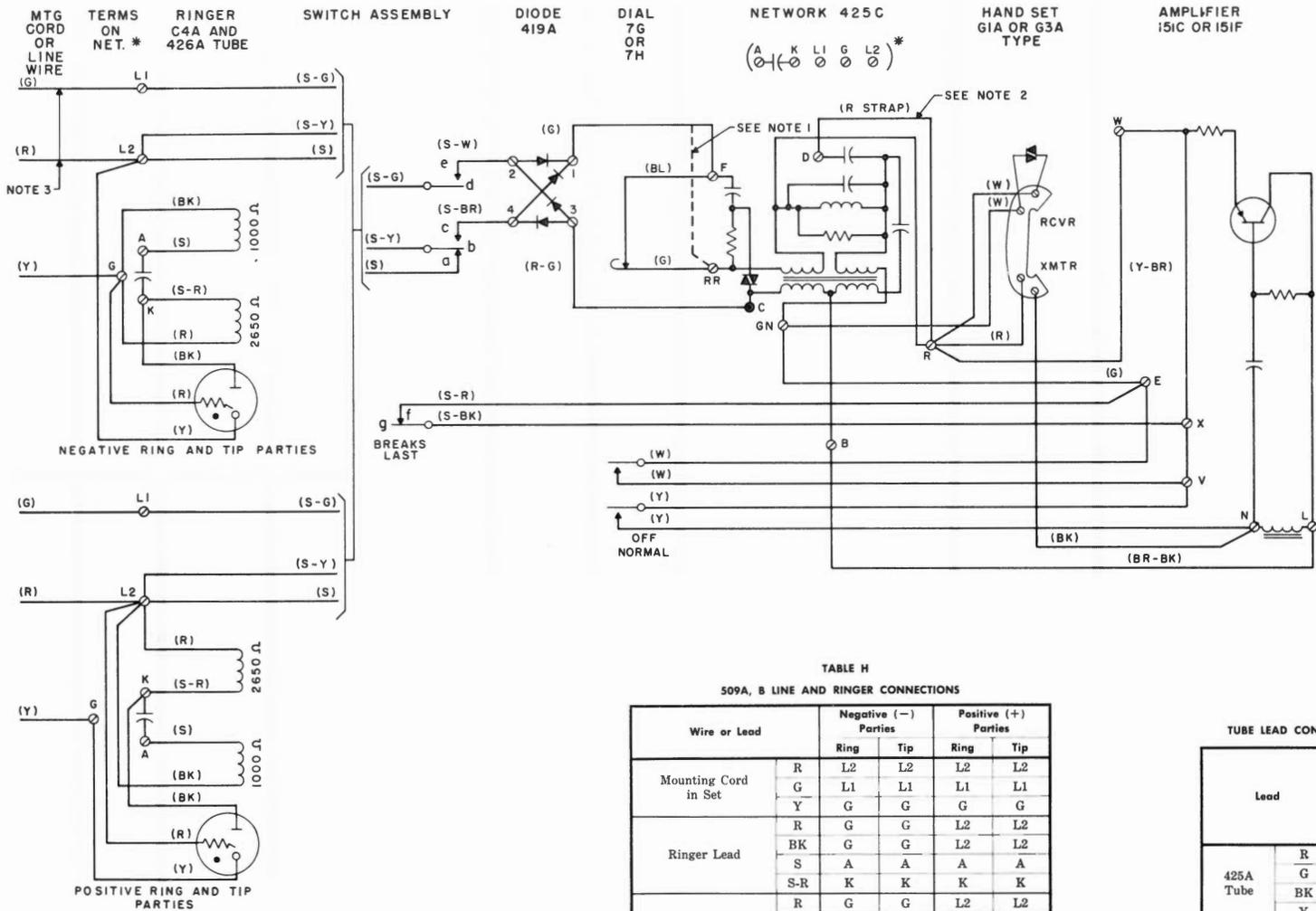
TABLE E  
RINGER LEAD CONNECTIONS

Tip Party Identifying Ground ohms	Ringer Lead			
	Red	Black	Slate	S-Red
1000	K	G	B	K
2650	B	K	K	G

TABLE F  
507A, B; 557A, B TELEPHONE SETS, MODIFICATION FOR TIP PARTY IDENTIFICATION

Lead	Remove from	Connect to
S-BR Switch Assembly	4 of 419A Diode	R-G from Network (use D-161488 connector)
R-G Network	3 of 419A Diode	S-BR Switch Assembly
BR-BK Amplifier	B Term. Network	3 of 419A Diode
G Strap	1 of 419A Diode and F Term. Network	4 of 419A Diode and B Term. Network
Y-BR Amplifier	R Term. Network	1 of 419A Diode
Use M1W Cord or Equiv		2 of 419A Diode and R Term. Network
W Dial	V Term. Amplifier	R Term. Network
R Transmitter	R Term. Network	1 of 419A Diode
S-W Switch Assembly	2 of 419A Diode	F Term. Network
S-BK Switch Assembly	X of Amplifier	R Term. Network

Fig. 2 - 507A, B; 557A, B Telephone Sets, Tip Party 1000-Ohm and 2650-Ohm Identifying Ground (Modification to Be Made in Field)



**Note 1:** Green varistor lead is connected to F terminal in dial sets and to RR terminal in manual sets.

**Note 2:** When unusually high sidetone is experienced, transfer R STRAP from D terminal to R terminal.

**Note 3:** Tip and ring reversed for tip party service.

**TABLE H**  
509A, B LINE AND RINGER CONNECTIONS

Wire or Lead	Negative (-) Parties		Positive (+) Parties	
	Ring	Tip	Ring	Tip
Mounting Cord in Set	R	L2	L2	L2
	G	L1	L1	L1
	Y	G	G	G
Ringer Lead	R	G	G	L2
	BK	G	G	L2
	S	A	A	A
Tube Lead	S-R	K	K	K
	R	G	G	L2
	BK	K	K	K
Mounting Cord at Connecting Block	Y	L2	L2	G
	R	R	G	R
	G	G	R	G
Line Wire at Connecting Block	Y	Y	Y	Y
	R	R	R	R
	G	G	G	G

**TABLE G**  
559A, B LINE AND RINGER CONNECTIONS

Wire or Lead	Negative (-) Parties		Positive (+) Parties	
	Ring	Tip	Ring	Tip
Line Wire in Set	R	L2	L1	L1
	G	L1	L2	L2
	Y	G	G	G
Ringer Lead	R	G	G	L2
	BK	G	G	L2
	S	A	A	A
	S-R	K	K	K
Tube Lead	R	G	G	L2
	BK	K	K	K
	Y	L2	L2	G

**TABLE J**  
TUBE LEAD CONNECTIONS FOR INDUCTIVE INTERFERENCE

Lead	Negative (-) Ring or Tip Parties		Positive (+) Ring or Tip Parties
	Average Induction	Severe Induction	Average or Severe Induction
425A Tube	R	L1	L2
	G	L2	L1
	BK	K	K
426A Tube	Y	L2	G
	R	L1	
	BK	K	

For additional information concerning inductive interference, refer to C Section entitled Inductive Noise.  
To silence ringer permanently, connect yellow mounting cord lead to same terminal as red mounting cord lead at connecting block.

**Fig. 3 — 509A, B; 559A, B Telephone Sets**