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TELEPHONE SETS—300 AND 325 TYPES
OUTDOOR LOCATIONS
CONNECTIONS

1. GENERAL

- 1.01 This section covers connections for the 300- and 325-type outdoor telephone sets. These sets are rated Manufacture Discontinued (MD) and are replaced by 525-type sets.
- 1.02 This section is reissued to revise Table D.
- 1.03 This section contains tables and circuit diagrams for connecting the 325-type telephone set. Modifications for tube-type ringing bridges, local battery talking, and tip station identification are included.

2. CONNECTIONS

- 2.01 Tables A, B, C, and D show line and ringer connections and necessary component changes to modify the telephone set for use with various services.
- 2.02 Connections for the 300 and 325 (A, C, E, and G) telephone sets are shown in Table A and Fig. 1.
- 2.03 Connections for individual or bridged lines for the 325J, L, M, and N telephone sets are shown in Fig. 2. The wiring connection for the Hart-Hegeman No. 20599B toggle switch is shown in Fig. 2.
- 2.04 Table B and Fig. 3, Table C and Fig. 4, and Table D and Fig. 5 show modified connections for the 325J, L, M, and N telephone sets.

TABLE A

BRIDGED AND GROUNDED RINGER SERVICE CONNECTIONS
300- AND 325-TYPE SETS

Wire or Lead		Individual or Bridged	Grounded Service	
			Ring Position	Tip Position
Line Wire	R	L1	L2Y or L2	L1
	GN	L2 or L2Y	L1	L2Y or L2
	Y	GND	GND	GND
Ringer Lead	R	L1	K	GND
	BK	K	GND	K

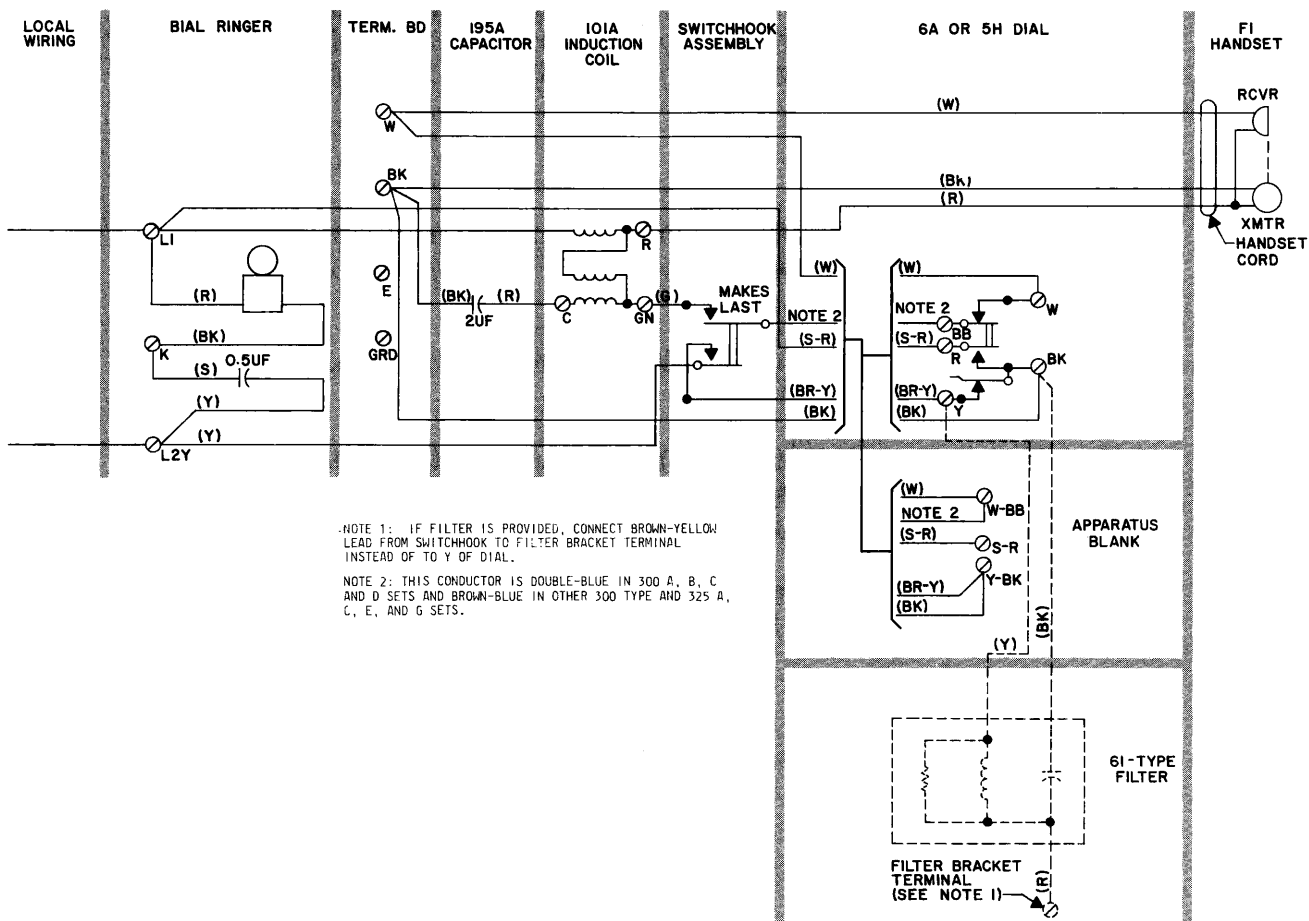


Fig. 1 – Circuit Diagram for 300 and 325 (A, C, E, and G) Telephone Sets

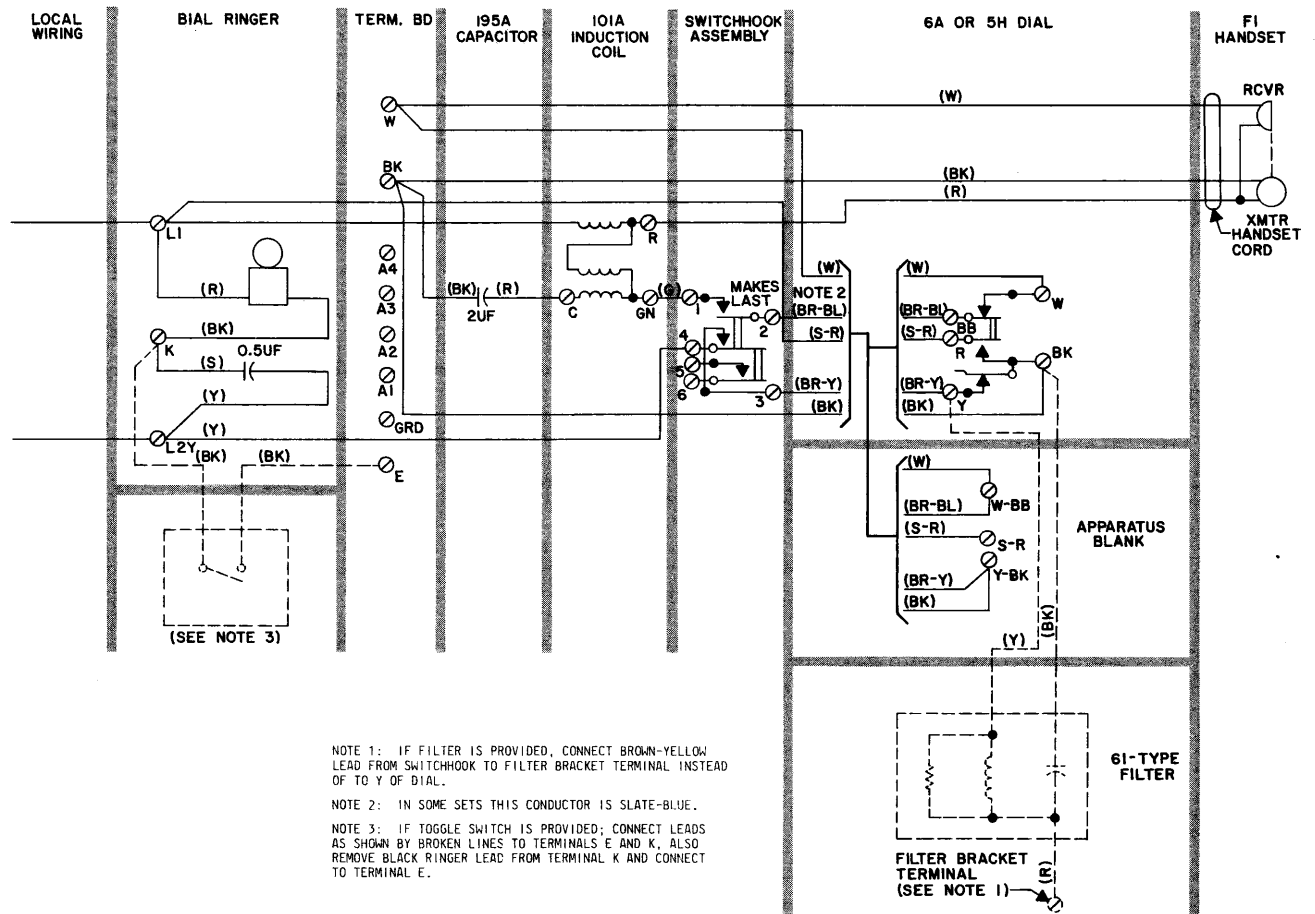


Fig. 2 — Circuit Diagram for 325J, L, M, and N Telephone Sets, Individual or Bridged Services

TABLE B

325J, L, M, AND N TELEPHONE SETS MODIFIED FOR TUBE-TYPE RINGING BRIDGES (See Fig. 3)

Class of Service	Wire or Lead		Negative (-) Parties		Positive (+) Parties	
			Ring Position 1 and 5	Tip Position 2 and 6	Ring Position 3 and 7	Tip Position 4 and 8
4-Party Selective or 8-Party Semiselective	Line Wire	R	L2Y	L1	L2Y	L1
		GN	L1	L2Y	L1	L2Y
		Y	GND	GND	GND	GND
	Ringer Lead *	R	GND	GND	L2Y	L2Y
		BK	K	K	K	K
	426A Tube Lead	R	GND	GND	L2Y	L2Y
		BK	K	K	K	K
		Y	L2Y	L2Y	GND	GND

* Replace the B1AL ringer with a B3AL ringer.

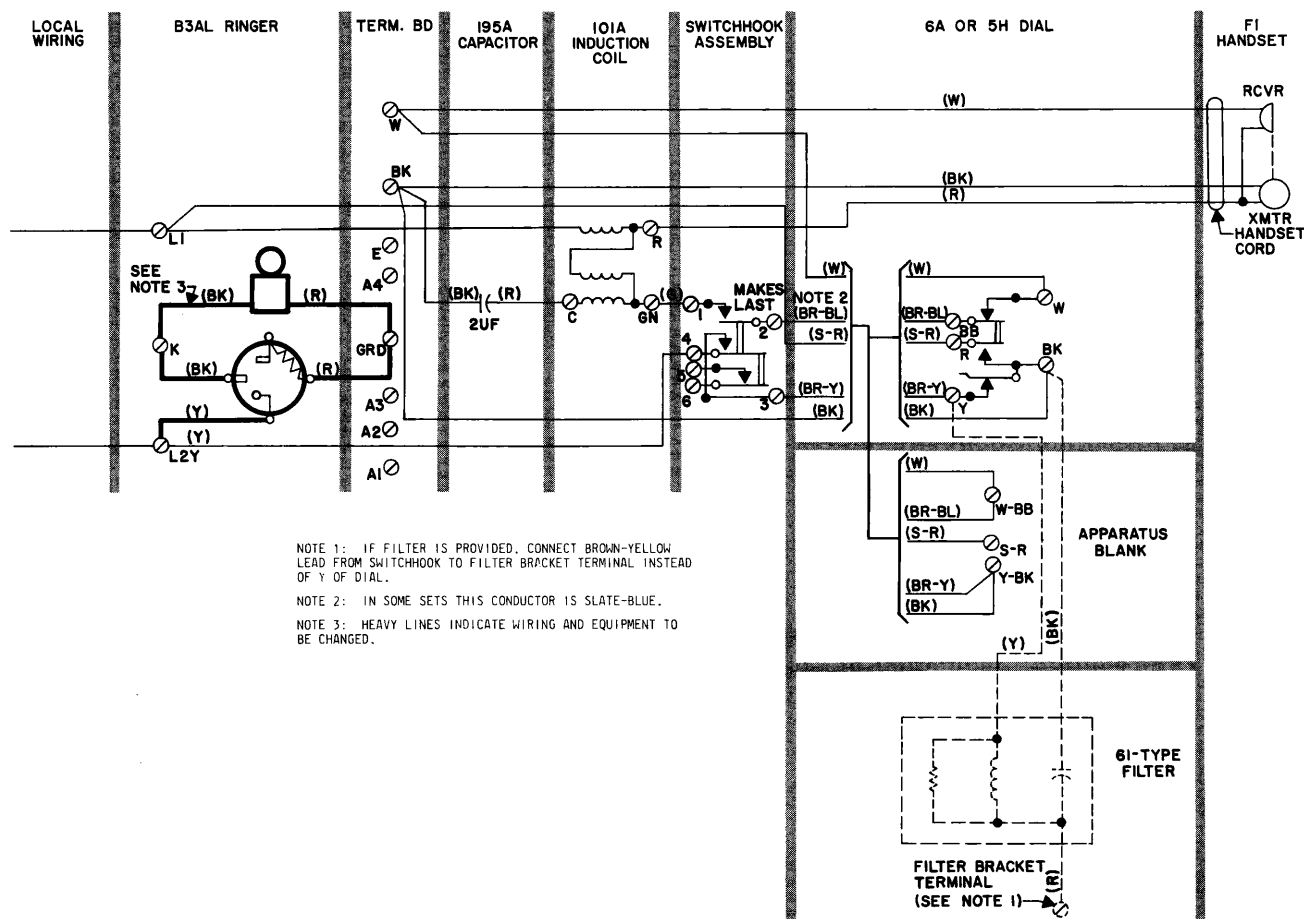


Fig. 3 — Circuit Diagram for 325J, L, M, and N Telephone Sets, Modified for Use on 4-Party Selective and 8-Party Semiselective Lines

TABLE C
325J, L, M, AND N TELEPHONE SETS MODIFIED FOR LOCAL BATTERY TALKING
AND COMMON BATTERY SIGNALING (See Fig. 4)

Wire or Lead		Individual or Bridged	Grounded Service	
			Ring Position	Tip Position
Line Wire	R	L1	L2Y	L1
	GN	L2Y	L1	L2Y
	Y	GND	GND	GND
Ringer Lead	R	L1	K	GND
	BK	K	GND	K
Battery Lead		BK	BK	BK
		BL	BL	BL

- Note 1:** To convert set:
- (1) Replace:
The 101A induction coil with a 104A induction coil.
 - (2) Add:
One M1W 10-inch cord to 1 of terminal block and A4 of terminal block.
One M1W 10-inch cord to 5 of terminal block and A3 of terminal block.
One M1W 10-inch cord to 6 of terminal block and SL of 104A induction coil.
One 266A inductor to RBK of 104A induction coil and A3 of terminal block.
One 198A capacitor to A of 104A induction coil and A3 of terminal block.
 - (3) Move:
Red lead of capacitor on C terminal of 101A coil to R-BK terminal of 104A coil.
Black lead of capacitor on BK terminal block to A4 of terminal block.
Red conductor of handset on R terminal of 101A coil to A3 of terminal block.
Black lead of dial or apparatus blank on BK terminal block to A3 of terminal block.

Note 2: Where inductive noise is encountered at tip party stations, reverse the leads to the 266A inductor.

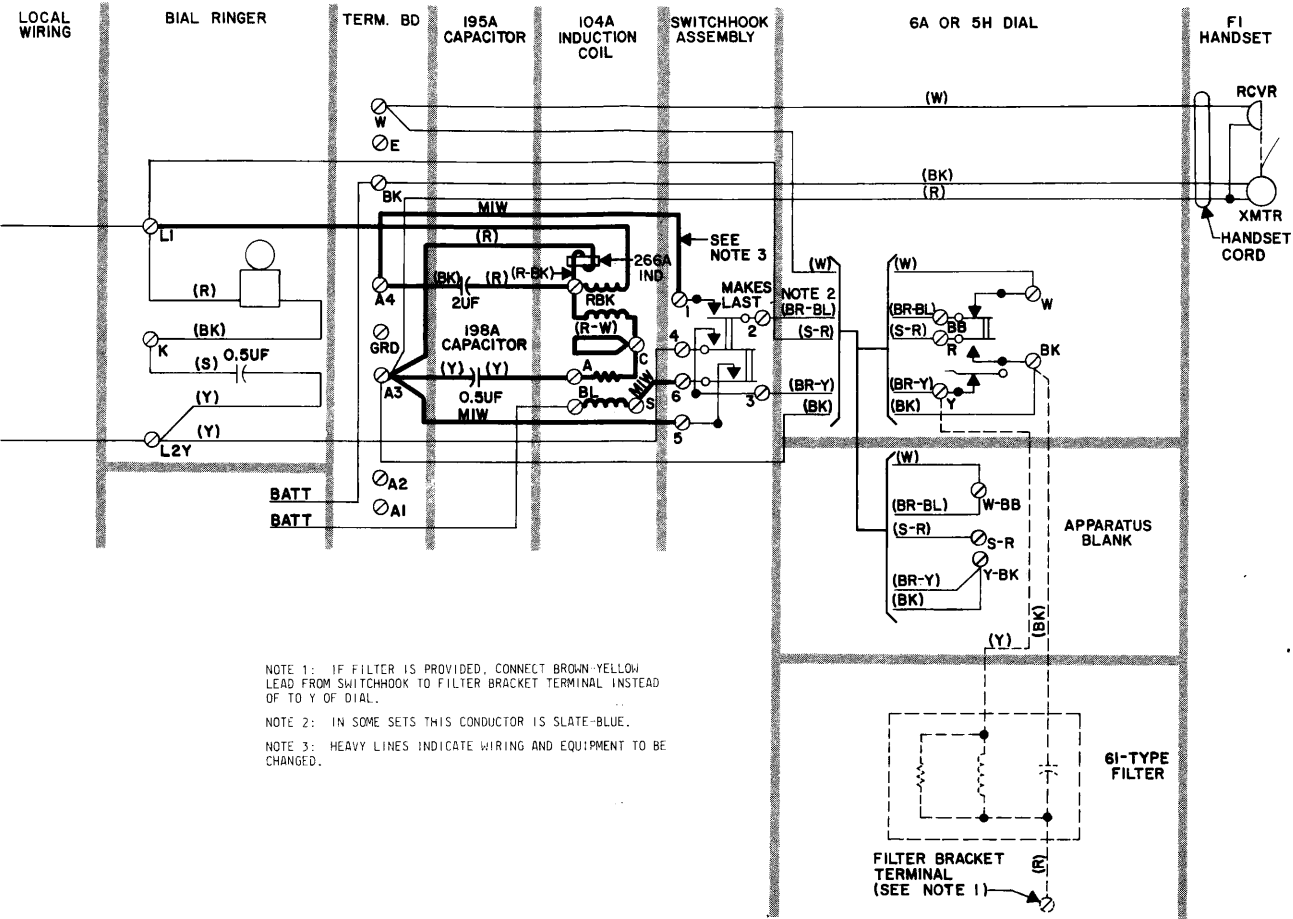


Fig. 4 – Circuit Diagram for 325J, L, M, and N Telephone Sets, Modified for Use on Local Battery Talking and Common Battery Signaling Lines

TABLE D
325J, L, M, AND N TELEPHONE SETS MODIFIED FOR 2-PARTY TIP STATION IDENTIFICATION (See Fig. 5)

Wire or Lead		Normal Connections		To Silence Ringer Permanently		Ringer Reversal When Connected to Long Line Equip.*	
		1000Ω	2650Ω	1000Ω	2650Ω	1000Ω	2650Ω
Line Wire	R	L1	L1	L1	L1	L1	L1
	G	L2Y	L2Y	L2Y	L2Y	L2Y	L2Y
	Y	GND	GND	GND	GND	GND	GND
Ringer Lead	R	K	M	K	M	RR	M
	BK	GND	RR	GND	K	GND	K
	S	M	K	M	K	M	RR
	S-R	RR	GND	K	GND	K	GND

Note 1: To convert set:

- (1) Replace:
The 101A induction coil with a 101B induction coil.
The B1AL ringer with a B2AL ringer.
- (2) Add:
One M1W 10-inch cord to RR of induction coil and 6 of terminal block.
One M1W 10-inch cord to L1 terminal and 4 of terminal block.
- (3) Move:
Yellow lead on L2Y terminal from 4 to 5 of terminal block.
Slate-red lead on L1 terminal to RR of 101B induction coil.

* Use normal connections on tip party identification stations. If bell taps on stations connected to long line equipment, use ringer reversal column in Table D to retain tip party identification.

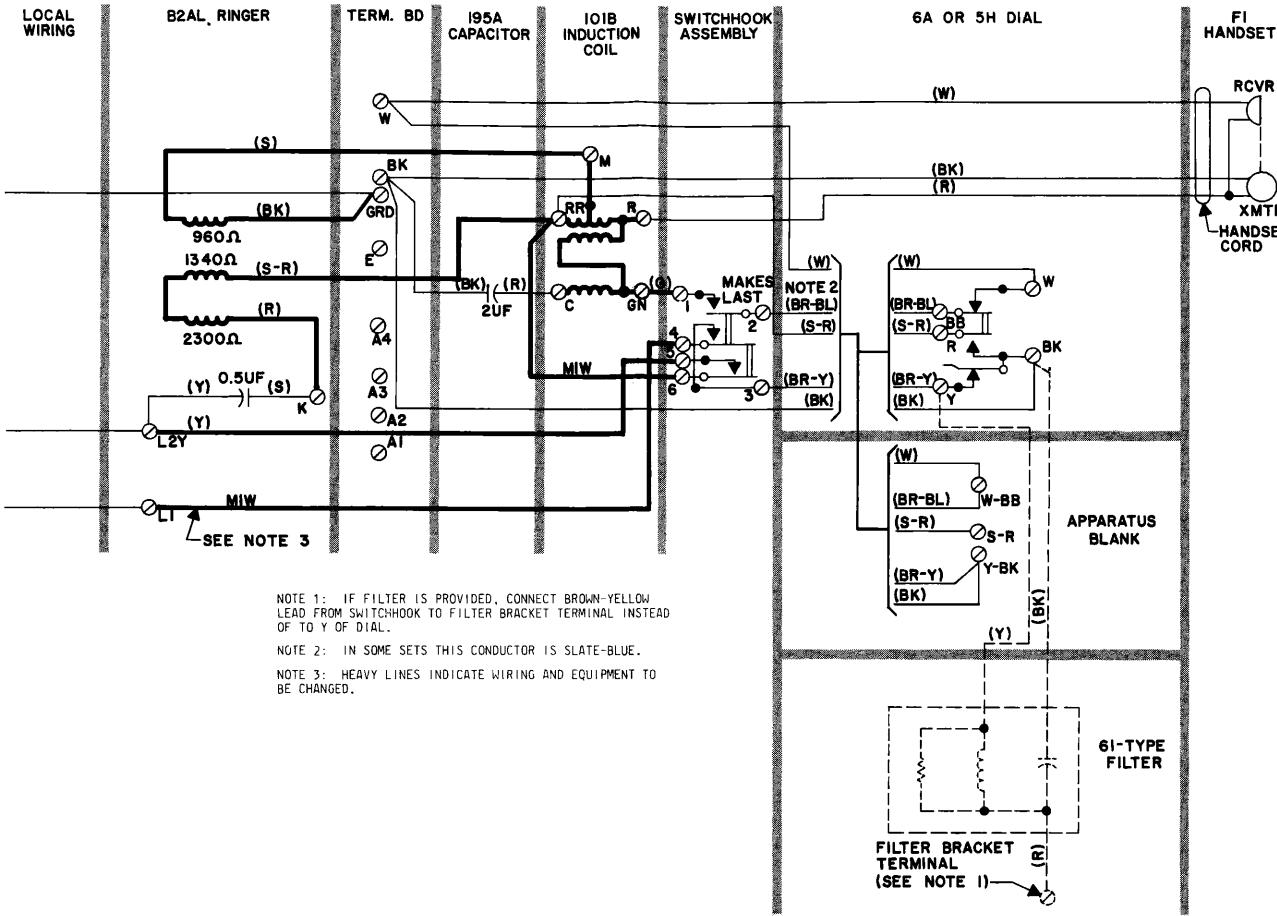


Fig. 5 – Circuit Diagram for 325J, L, M, and N Telephone Sets, Modified for Tip Party Identification