SUBSCRIBER SETS — 686A

COMMON BATTERY — NETWORK TYPE — CONNECTIONS

1.00 INTRODUCTION

This section covers the combination of apparatus, circuit diagram, and connections for the 686A subscriber set when associated with hand telephone sets for common battery service.

2.00 GENERAL

This set is equipped with an electron tube and is for use in connection with 4-party full selective or 8-party semiselective dial or manual stations on polarized ringing lines.

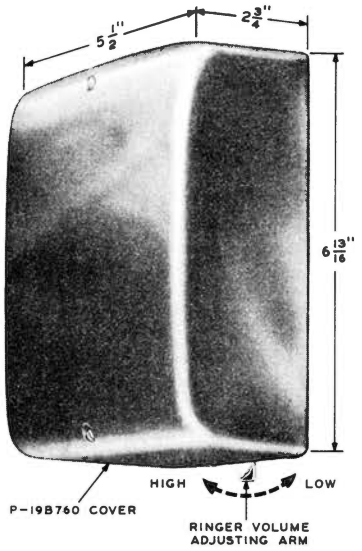

FIG. 1—686 TYPE

TABLE A
COMBINATION OF APPARATUS

Sub. Set Code	Components			Impedance of Ringing Bridge
	Ringer	Electron Tube	Network	
686A (As furnished)	C4A	426A	425B	High
686A* (Modified)		425A		

*A 4-element electron tube is used to reduce inductive noise.

TABLE B—CONNECTIONS

Wire or Lead		Negative (—) Parties				Positive (+) Parties			
		Ring Station Positions 1 and 5		Tip Station Positions 2 and 6		Ring Station Positions 3 and 7		Tip Station Positions 4 and 8	
		Terminal Block	425B Network	Terminal Block	425B Network	Terminal Block	425B Network	Terminal Block	425B Network
Inside Wire from Protector or Line	R	L2	—	L1	—	L2	—	L1	—
	GN	L1	—	L2	—	L1	—	L2	—
	Y	G	—	G	—	G	—	G	—
Ringer Lead	SL	—	A	—	A	—	A	—	A
	BK	G	—	G	—	L2	—	L2	—
	R	G	—	G	—	L2	—	L2	—
	SL-R	—	K	—	K	—	K	—	K
426A Tube Lead (3-Element)	BK	—	K	—	K	—	K	—	K
	Y	L2	—	L2	—	G	—	G	—
	R	G	—	G	—	L2	—	L2	—
Straps Network to Terminal Block	SL-BR	2	C*	2	C*	2	C*	2	C*
	BL	L1	RR	L1	RR	L1	RR	L1	RR
Mounting Cord or Local Wiring	GN	—	GN	—	GN	—	GN	—	GN
	R	—	R	—	R	—	R	—	R
	BK	—	B	—	B	—	B	—	B
	Y	L2	—	L2	—	L2	—	L2	—
	YY or R	2	—	2	—	2	—	2	—
4-Element Electron Tube Connections to Reduce Inductive Noise									
425A Tube Lead (4-Element)	R	L1	—	L1	—	L2	—	L2	—
	GN	L2	—	L2	—	L1	—	L1	—
	BK	—	K	—	K	—	K	—	K
	Y	L2	—	L2	—	G	—	G	—

*Slate-brown strap is soldered to C on the 425B network.

4.00 CIRCUIT DIAGRAM

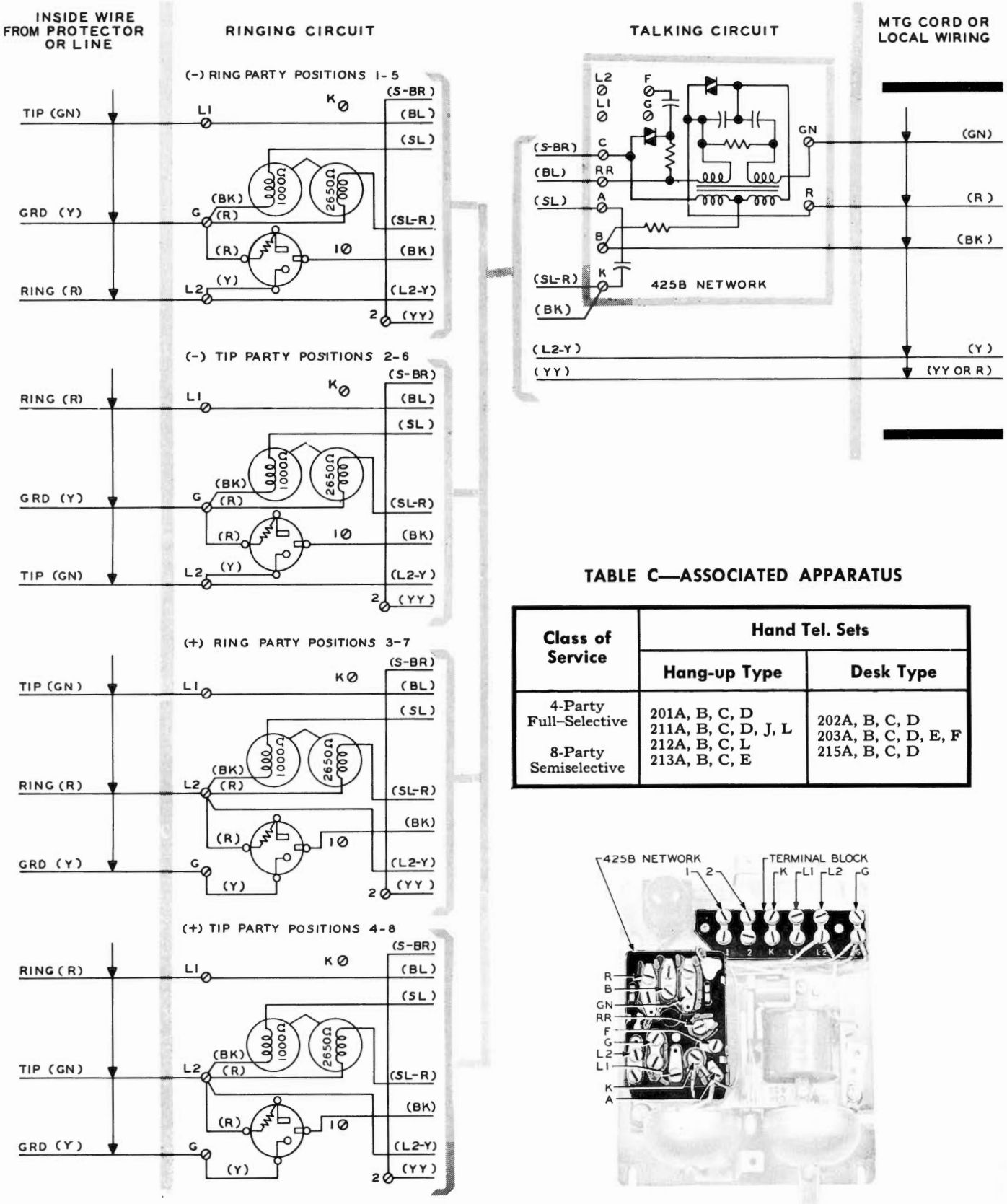

TABLE C—ASSOCIATED APPARATUS

Class of Service	Hand Tel. Sets	
	Hang-up Type	Desk Type
4-Party Full-Selective 8-Party Semiselective	201A, B, C, D 211A, B, C, D, J, L 212A, B, C, L 213A, B, C, E	202A, B, C, D 203A, B, C, D, E, F 215A, B, C, D

FIG. 2—686A