

### SHEET INDEX

FIG.	CONTENTS	SHEET NO.	ISSUE NO.																			OLD SHEET NO.
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3	TRFR KEY FOR SEC STA			012																		
4	BUZ CKT			011																		
5	BUZ CKT FOR SEC STA			012																		
6	NOISE SPR CKT			016																		
7	RINGER (MFR DISC.)																					
8																						
9																						
	CKT REQ			015	4																	

DWG ISS	CD ISS	DWG ISS	CD ISS	DWG ISS	CD ISS
1	1	2D	2D	3D	3D
DWG ISS	EE OR CD ISSUE	DATE ISSUE	DRAWN	APP	
4D	2D APP2D	4-7-59	LITK	WPA	WPA

#### SHEET INDEX NOTES

1. WHEN CHANGES ARE MADE IN THIS DRAWING, ONLY THOSE SHEETS AFFECTED WILL BE REISSUED.
2. THIS SHEET INDEX WILL BE REISSUED AND BROUGHT UP TO DATE EACH TIME ANY SHEET OF THE DRAWING IS REISSUED, OR A NEW SHEET IS ADDED.
3. THE ISSUE NUMBER ASSIGNED TO A CHANGED OR NEW SHEET WILL BE THE SAME ISSUE NUMBER AS THAT OF THE SHEET INDEX.
4. SHEETS THAT ARE NOT CHANGED WILL RETAIN THEIR EXISTING ISSUE NUMBER.
5. THE LAST ISSUE NUMBER OF THE SHEET INDEX IS RECOGNIZED AS THE LATEST ISSUE NUMBER OF THE DRAWING AS A WHOLE.
6. "OLD SHEET NO." REFERS TO SHEET NO. PRIOR TO ISSUE: 4D

#### SUPPORTING INFORMATION

CATEGORY	NO.
EQUIPMENT INFO	JOB BASIS

REPLACING SD-69103-01

SD69204-01

Station Systems  
KEY TELEPHONE SYSTEM NO. 2B

For 2-Station Intercommunicating Service  
Arranged for a Loudspeaker  
and Distant Talking Transmitter  
at One Station

AT&TCO  
STANDARD

SD-69204-010

6 SHEETS

CIRCUIT NOTES:

101.

FEATURE OR OPTION	PROVIDE		
	FIGS.	APP. OR WIR.	QUANTITY
LOUD SPEAKING TELEPHONE SET	1		1 PER SYSTEM
TRANSFER KEY REQUIRED TO TRANSFER MASTER STATION FROM TELEPHONE LINE TO INTERCOM. LINE	2		1 PER SYSTEM
TRANSFER KEY REQUIRED TO TRANSFER SECONDARY STATION FROM TELEPHONE LINE TO INTERCOM. LINE	3		1 PER SECONDARY STATION
SECONDARY STATION NOT TRANSFERRED TO TELEPHONE LINE.	4		1 PER SECONDARY STATION
KEY TELEPHONE SET IS USED AT SECONDARY STATION TO PICK UP INTERCOM. LINE AND OTHER LINES AND TO SIGNAL MASTER STATION ONLY.	5		1 PER SECONDARY STATION
WHEN A COMMON BATTERY SUPPLY IS USED AND THE BUZZERS OF THIS SYSTEM INTRODUCE OBJECTIONABLE NOISE IN OTHER COMMUNICATING CKTS.	6		1 PER INSTALLATION
RINGER	531A SUB. SET	7	AS REQUIRED
	687A SUB. SET	8	
500L OR M TELEPHONE SET	9		AS REQUIRED
BATTERY SUPPLY	14 TO 30 VOLTS		Z
	30 TO 50 VOLTS (SEE NOTE 103)		Y
NO TRANSFER KEY REQUIRED AT MASTER STATION		X	

102. THE 330 TELEPHONE SETS ARE MANUFACTURED WITH A STRAP CONNECTED TO TERMINALS "11" AND "12". WHEN THE SECONDARY STATION IS REQUIRED TO CALL THE MASTER STATION BY VOICE SIGNAL WHILE MASTER STATION KEY IS IN THE (OFF) POSITION, CONNECT THIS STRAP TO TERMINALS "10" AND "11".
103. WHEN THE BATTERY FEED VOLTAGE IS BETWEEN 30 AND 50 VOLTS CHANGE THE (LPI) LAMP FROM AN A3 TO A K2 LAMP.
104. SINGLE BUZZERS HAVE A WORKING LIMIT OF 60 OHMS CONDUCTOR LOOP RESISTANCE. WHEN 2 OR MORE BUZZERS ARE CONNECTED IN MULTIPLE TO THE SAME CONDUCTORS FROM THE MASTER STATION, THE WORKING LIMIT OF 60 OHMS CONDUCTOR LOOP RESISTANCE SHOULD BE DIVIDED BY THE NUMBER OF BUZZERS SO CONNECTED.
105. WHEN THE VOLTAGE IS BETWEEN 30 AND 50 VOLTS ("Y" WIRING), THE MAXIMUM NUMBER OF BUZZERS THAT CAN BE OPERATED IN MULTIPLE IS 3.
106. BUZZERS MUST BE INSULATED WHEN MOUNTED ON METAL WALLS OR METAL FURNITURE.
107. WHEN FIG. 6 IS USED IT SHOULD BE CONNECTED AT THE JUNCTION POINT WHERE BATTERY SUPPLY FOR THIS SYSTEM IS COMMON WITH OTHER COMMUNICATING SYSTEMS.
108. WHERE FIG. 2 (MASTER STATION TRANSFER KEY) IS PROVIDED EACH SECONDARY STATION WITH AN FIA HANDSET SHOULD BE EQUIPPED WITH A 37B VARISTOR.

NOTES CONTINUED ON NEXT PAGE

DRAWING

ISSUE

4D

STL

KEY TELEPHONE SYSTEM NO. 2B

SD-69204-011

BELL TELEPHONE LABORATORIES  
INCORPORATED

3S

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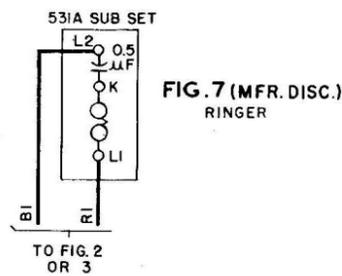


FIG. 7 (MFR. DISC.) RINGER

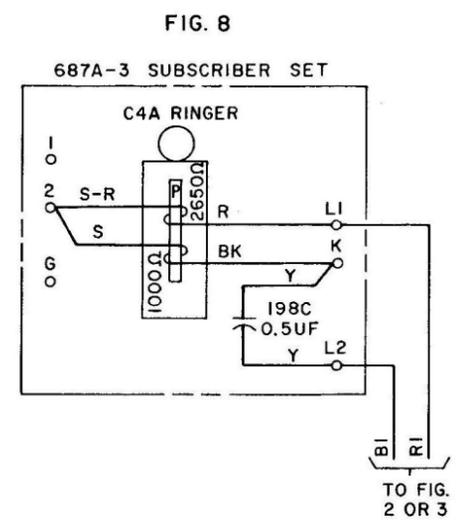


FIG. 8

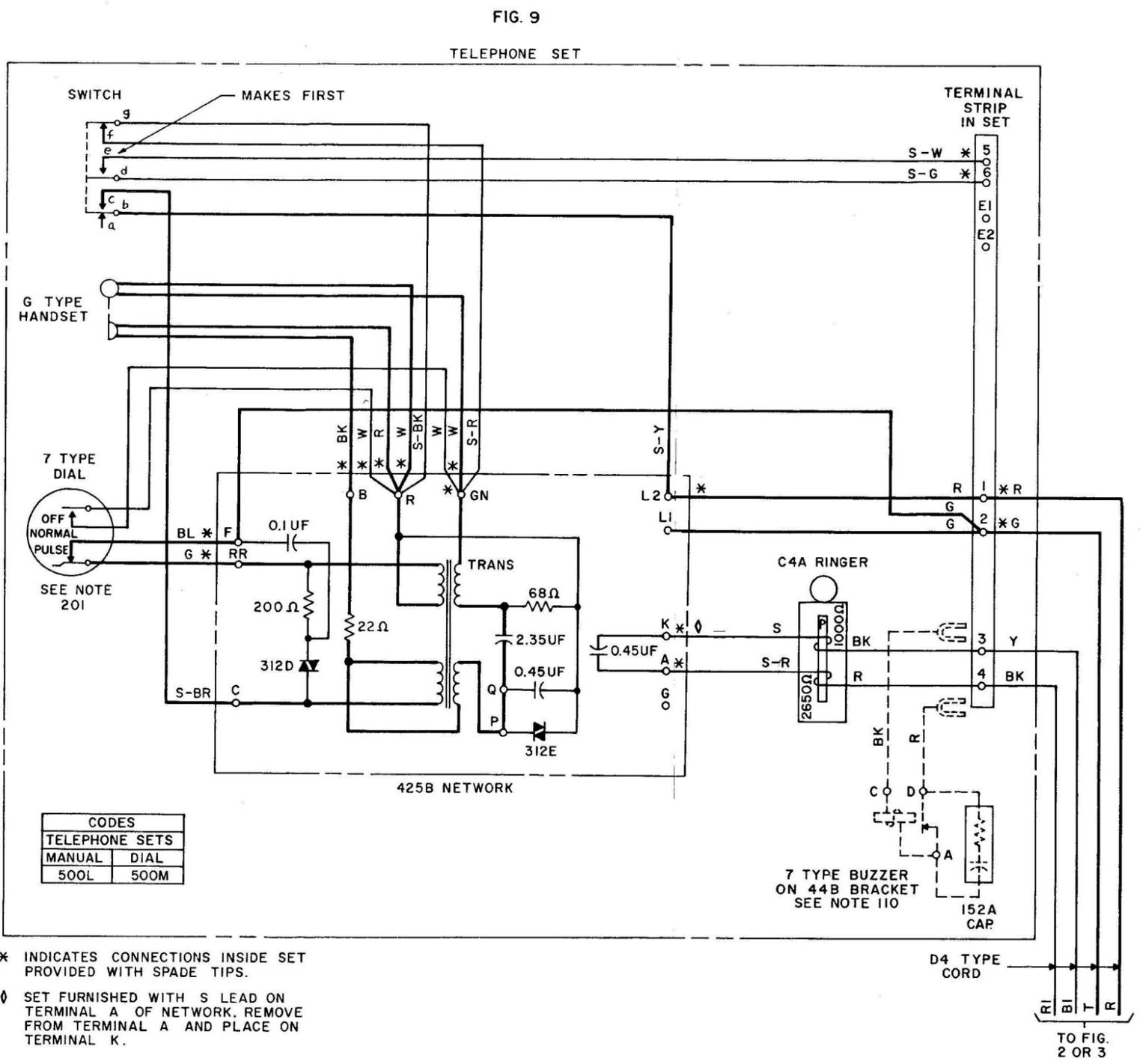


FIG. 9

FIG. 2 TRANSFER KEY FOR MASTER STATION WHERE HANDSET MAY BE USED ON BOTH INTERCOMMUNICATING AND TELEPHONE LINES

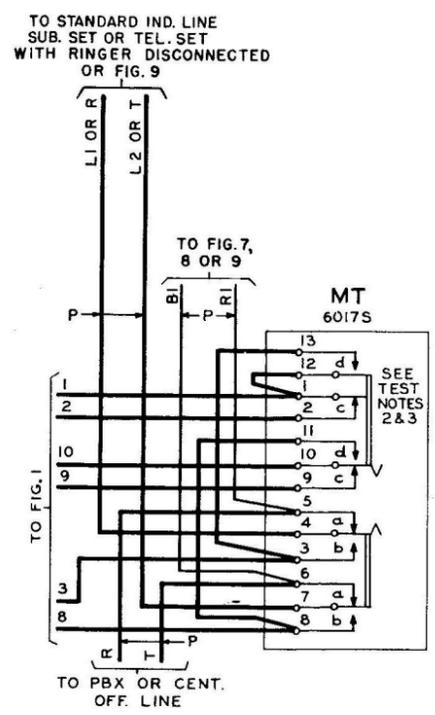


FIG. 4

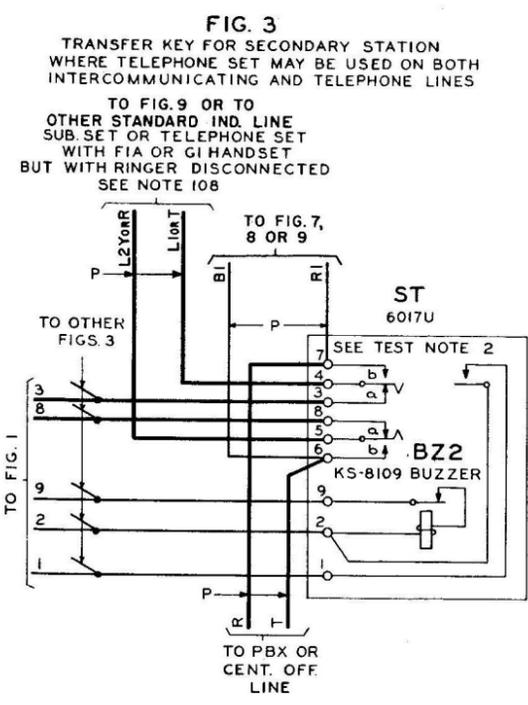


FIG. 3

FIG. 5 BUZZER CKT FOR SECONDARY STATION WHERE KEY TELEPHONE SET MAY BE USED ON BOTH INTERCOMMUNICATING AND TELEPHONE LINES

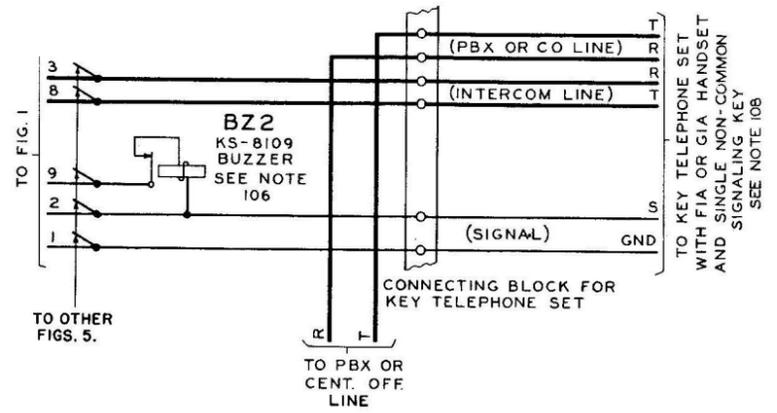


FIG. 5

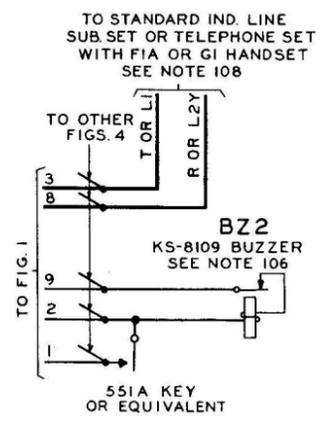
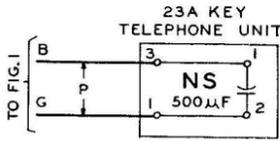


FIG. 6 NOISE SUPPRESSION CKT. FOR BATTERY SUPPLY (SEE NOTE 107)



23A KEY TELEPHONE UNIT

CIRCUIT REQUIREMENTS

KEY TELEPHONE SYSTEM NO. 2B

APPARATUS				MECH REQ			CIRCUIT PREPARATION				DIRECT CURRENT FLOW REQ						REMARKS	
DESIG	CODE	OPTION	FIG.	RATING	BSP FIG.	CONT PRESS.	ARM. TRVL	BLOCK OR INSULATE	TEST CLIP DATA		TEST SET PREP	SEE TEST NOTE	TEST WDG	TEST FOR	AFTER SOAK MA.	TEST MA.		READJ MA.
									CONN BAT.	CONN GRD								
RELAYS																		
SI	U6107		1	MD	111/110	H	35		BF(SI)	TR(SI)	M	I	P/S	0		25	23.5	
									BF(SI)	TR(SI)	M	I	P/S	R		4.8	5.1	
SI	UA129		1		111/110	H	35		BF(SI)	TR(SI)	M	I	P/S	0		19.5	18.5	
MISC.																		
MT	6017S KEY		2															
ST	6017U KEY		3															

TEST NOTES:

1. WHERE Y WIRING IS USED SHORT CIRCUIT TERM, 6 AND 10 AND SHORT CIRCUIT TERM, 4 AND 5.
2. BOTH a CONTACTS SHALL BREAK BEFORE EITHER b CONTACT MAKES.
3. BOTH c CONTACTS SHALL BREAK BEFORE EITHER d CONTACT MAKES.

KEY TELEPHONE SYSTEM NO. 2B

SD-69204-015

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