

CIRCUIT NOTES:

101.	DESIG	FUSE AMP	POTENTIAL	ONE PER

102.	FEATURE OR OPTION	PROVIDE	
		FIG.	QUANTITY
	LINE KEY UNIT	1	1 PER 10 LINES
	AUD SIG CUTOFF KEY	2	1 PER AUD SIG
	AUD SIG	3	1 PER 10 OR 20 LINE KEYBOX
	SUB LINE	4	AS REQD
	SUB LINE WITH CUTOFF KEY	5	AS REQD

103. RECORD OF FIGURES, WIRING AND APPARATUS CHANGES						
CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT		
				STD	A&M	MD
4D	Z, Y, OR X	Z OR Y	102 AND 105	X		Z, Y

104. NETWORK VALUES			
NO.	CODE	RESISTANCE	CAPACITANCE
		IN OHMS	IN UF

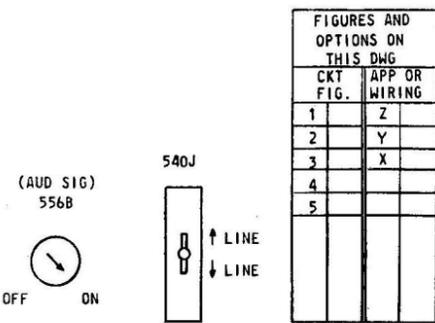
105. PRIOR TO ISSUE 4D OPTIONS Z AND Y WERE NOT DESIGNATED. X OPTION WAS ADDED ON ISSUE 4D.

EQUIPMENT NOTES:

201. ADJUST THE KEY TO MEET THE NON-CLICK AND CROSS SEQUENCE REQUIREMENTS AS COVERED IN BSP FOR A1 KEYS.

INFORMATION NOTES:

301. UNLESS OTHERWISE SPECIFIED: RESISTANCE VALUES ARE IN OHMS, CAPACITANCE VALUES ARE IN MICROFARADS, VALUES PRECEDED BY THE SYMBOL + (PLUS) OR - (MINUS) ARE IN VOLTS.



WORKING LIMITS

NO LINE CONNECTED TO FIG. 1 SHALL EXCEED THE FOLLOWING LIMITATIONS:

APPARATUS OPTION	FIGS.	HIGH IMPEDANCE LINE RINGERS
X	1	3
X	2	2
Z OR Y	1	2
Z OR Y	2	1

AC-DC OR NEGATIVE SUPERIMPOSED RINGING CURRENT MUST BE USED. RINGING CURRENT MUST BE APPLIED ON THE RING SIDE OF THE LINE WHILE GROUND IS ON THE TIP SIDE.

ALL OFF. EXCEPT SXS SXS OFF.	RINGING COMPONENT		MAX EARTH POT.
	AC	DC	
	80-88V	30-52V	15V
	80-88V	30-52V	5V
	95-103V	16-19V	5V

10-1E169-GS

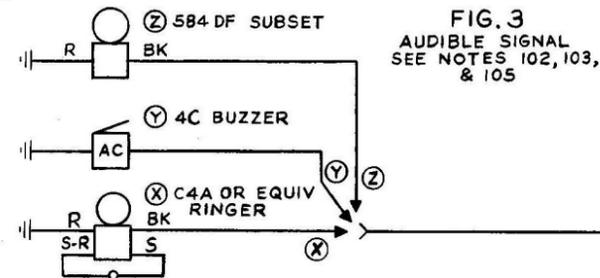
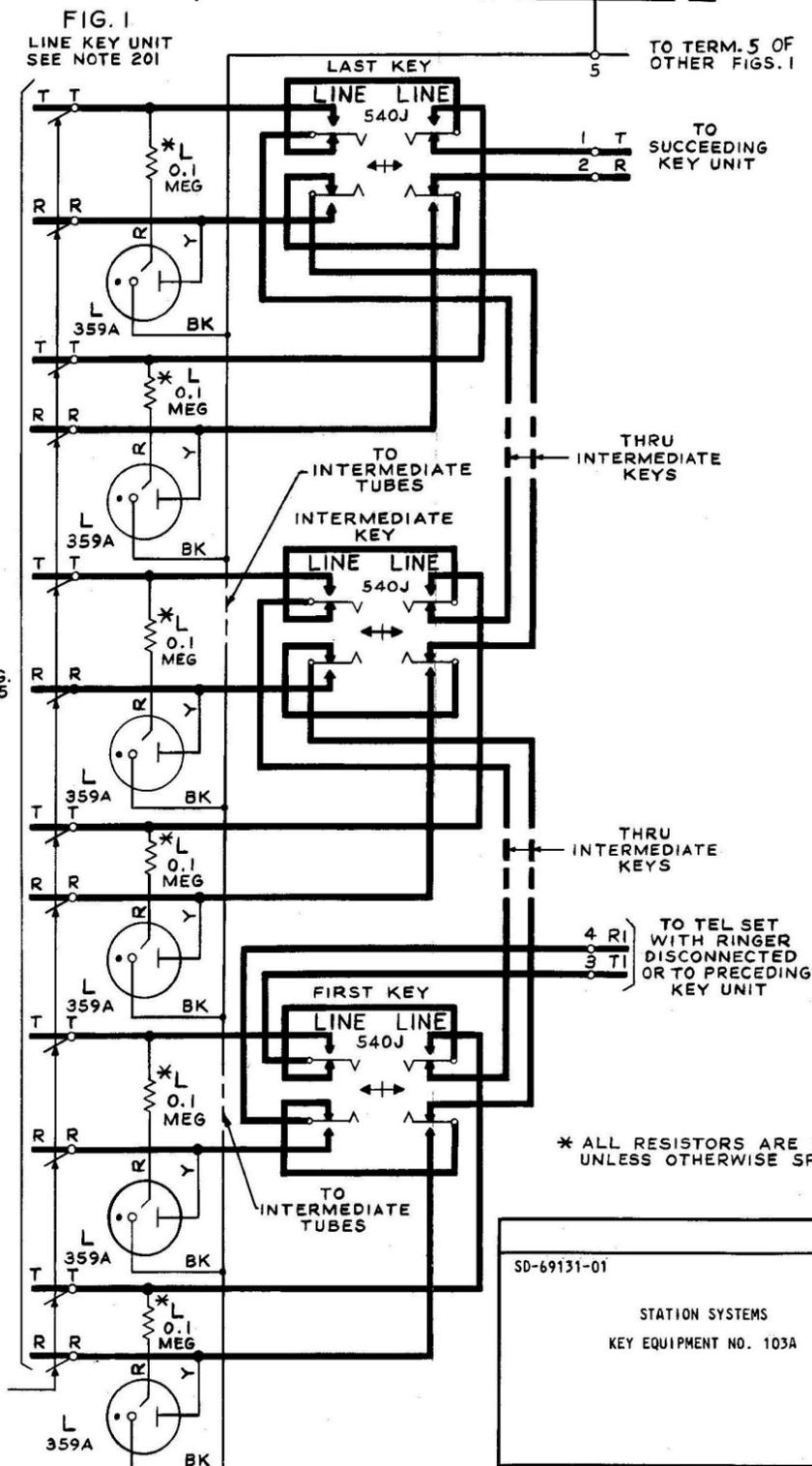
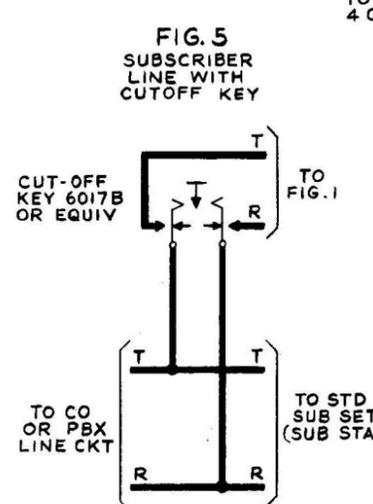
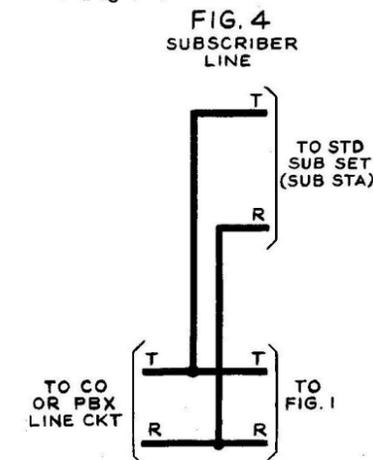
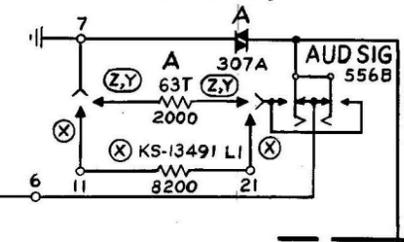


FIG. 3  
AUDIBLE SIGNAL  
SEE NOTES 102, 103,  
& 105

FIG. 2  
AUDIBLE SIGNAL CUTOFF KEY  
SEE NOTES 102, 103, & 105



SD-69131-01

STATION SYSTEMS  
KEY EQUIPMENT NO. 103A

AT&TCO  
STANDARD

SD-69131-01

BELL TELEPHONE LABORATORIES  
INCORPORATED

DWG SIZE  
6S

PRINTED IN U.S.A.

DWG NO	CD	DWG NO	CD	DWG NO	CD
1	1	2D	2D	3D	2D
4D	3D	10-24-63	R.G.	GRT	LAH
5D	3D	8-3-64	HBW	GRT	PBF
			DNC	DNC	ARM