

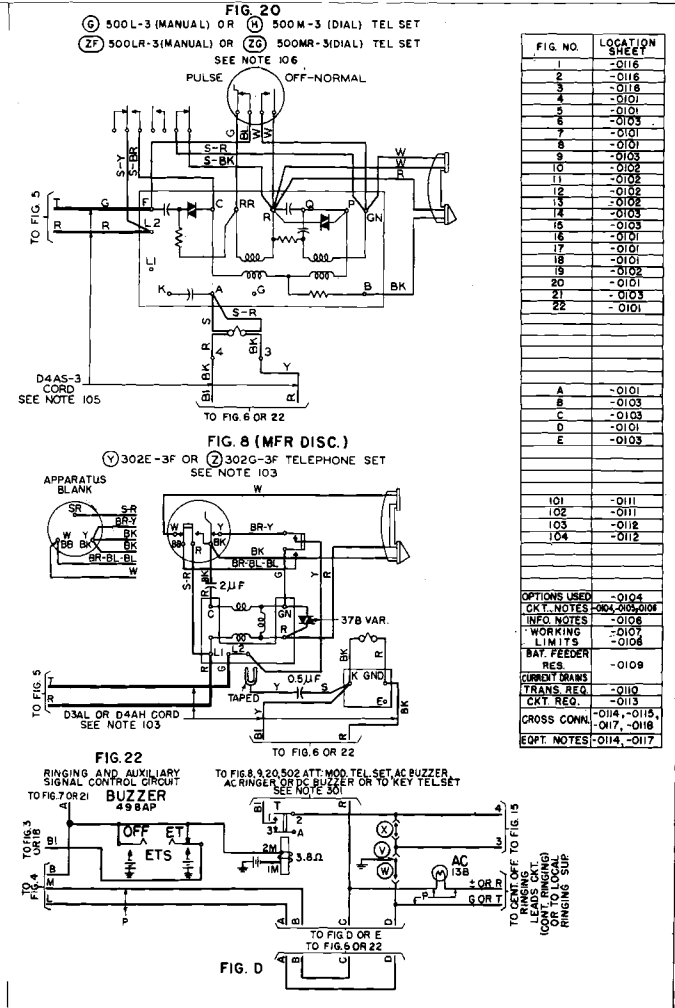
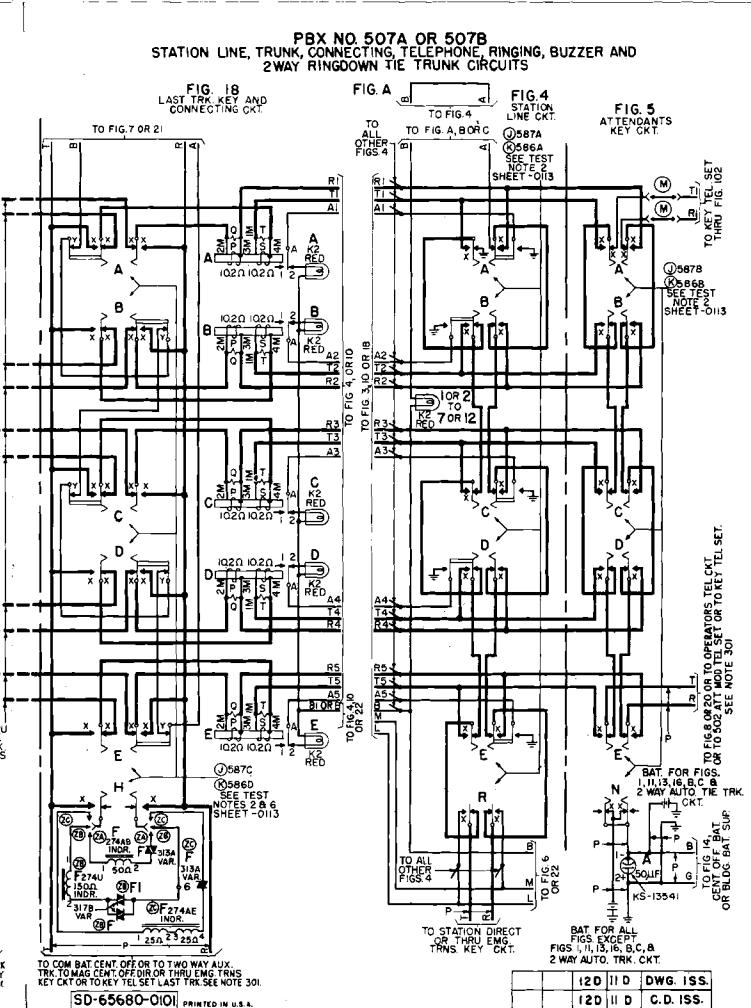
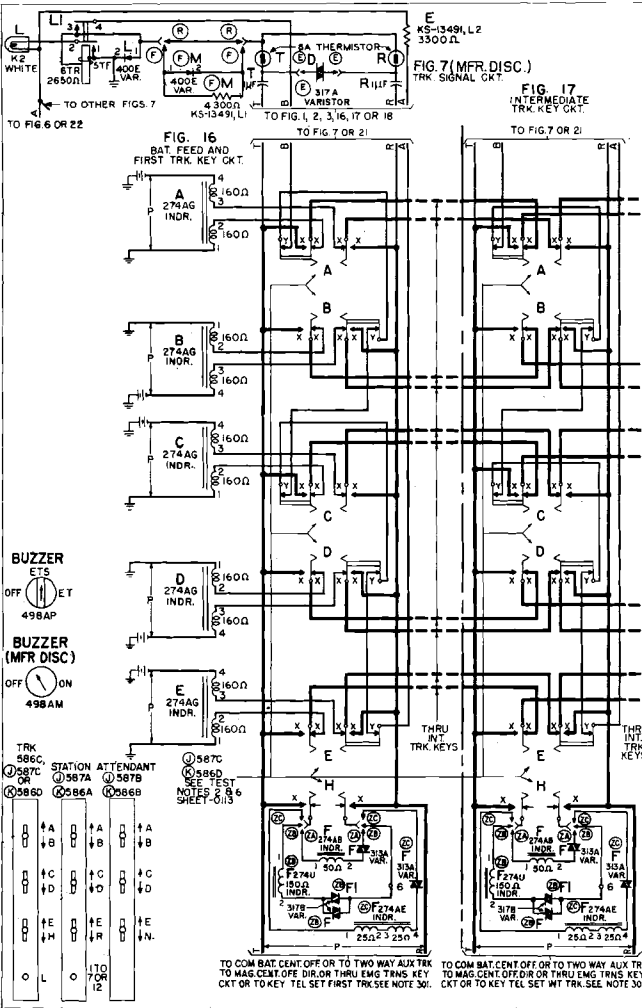


FIG. 9
DC OPERATED BUZZER

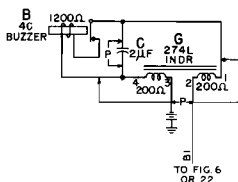


FIG. 14
FUSE CKT.

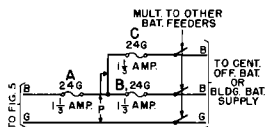


FIG. 15
AUD. SIG.
FOOT SWITCH

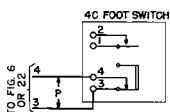


FIG. B
LINE REL.
MTD. INSIDE PBX

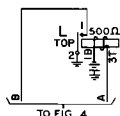


FIG. C
LINE REL.
MTD. OUTSIDE PBX

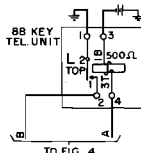


FIG. E
HAND GEN. CKT.

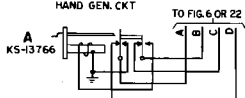


FIG. 6 (MFR DISC)
RINGING AND AUXILIARY
SIGNAL CONTROL CIRCUIT

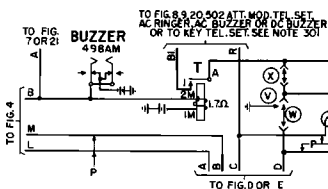
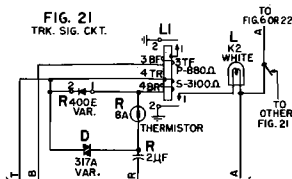


FIG. 21
TRK. SIG. CKT.



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FIG. 9
DC OPERATED BUZZER



FIG. 14
FUSE CKT.



12D	HD	10D	DWG. ISS.
12D	14D	10D	C.D. ISS.

CIRCUIT NOTES:
101

FEATURE OR OPTION			PROVIDE	
			FIGS.	APP. OR WIR. QUANTITY
BAT. FEED AND FIRST TRK. KEY CKT.			16	1 PER PBX
INTERMEDIATE TRK. KEY CKT.		507A	17	1 PER PBX
		507B		3 PER PBX
LAST TRK. KEY AND CONNECTING CKT.			18	1 PER PBX
STATION LINE CKT.		507A	4	7 PER PBX
		507B		12 PER PBX
ATTENDANTS KEY CKT.			5	1 PER PBX
TRK. SIG. CKT.			21	1 PER TRK.
RINGING AND AUXILIARY SIGNAL CIRCUIT		WITH HAND GENERATOR	22, E	1 PER PBX
		WITHOUT HAND GENERATOR	22, D	1 PER PBX
FUSE CKT. FOR USE WITH CENT. OFF. BAT. SUPPLY OR BLDG. BAT. SUPPLY WHEN BATS. ARE INACCESSIBLE FOR REPLACEMENT OF FUSES.			14	1 PER PBX
LINE REL.		IS NOT REQ.	A	
		IS MTD. INSIDE PBX	B	
		IS MTD. OUTSIDE PBX	C	
AUDIBLE SIGNAL		DC BUZZER	9	V
		AC OPERATED RINGER		W
FOOT SWITCH		REQUIRED	15	1 PER PBX
		NOT REQUIRED		X
ATTENDANTS TELEPHONE SET		302 TYPE SEE NOTE 105	8	Z
		DIAL MANUAL		Y
		500 TYPE SEE NOTES 105 AND 106	20	ZG
		DIAL MANUAL		ZF

OPTIONS USED			
FIGS.	APP. OR WIRING		
1	A	Z	ZD
2	B	Y	ZE
3	C	X	ZF
4	O	W	ZG
5	E	V	
6			
7		T	
8		S	
9		R	
10		Q	
11		P	
12		N	
13		M	
14		K	
15		J	
16		H	
17		G	
18		F	
19		E	
20			
21			
22			
		ZA	
		ZB	

CIRCUIT NOTE 101 CONT. ON SH.-0105

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	12D	11D	10D	DWG. ISS.
	12D	11D	10D	C.D.

101.(CONT.)

FEATURE OR OPTION				PROVIDE		
				FIGS.	APP. OR WIR.	QUANTITY
PBX MODIFIED FOR TIE TRK. OPERATION	WHEN INCOMING RING IS THRU OR FROM	LOOP	MINIMUM RINGING VOLTAGE AT DISTANT PBX			
			60 V. 75 V. 95 V.			
	BLOCKING CAPACITORS	LESS THAN	1200Ω 1700Ω 1950Ω		S	
		GREATER THAN	1199Ω 1699Ω 1949Ω		T	
	BY-PASSED CAPACITORS OR INDUCTOR OR RELAYED OR DIRECT	GREATER THAN	2000Ω 3000Ω 4000Ω		S	
	MAGNETO LINE 3 BAR GEN.	GREATER THAN	3000Ω		S	
	MAGNETO LINE 5 BAR GEN.	GREATER THAN	3600Ω		S	

102. FIG. 11 MAY BE USED UNDER ANY OF THE FOLLOWING CONDITIONS:

TYPE OF SERVICE	CONNECTS TO
A RINGDOWN TIE TRK. USING DIRECT CONDUCTORS	ALL TYPES OF PBX RINGDOWN TIE TRK. CKTS.
B RINGDOWN TIE TRK. USING TOLL FACILITIES	TOLL SYSTEMS SIGNALING INTERMEDIATE RINGERS
C RAILROAD MESSAGE & PHANTOM CKTS. DERIVED FROM LINES EQUIPPED WITH TRAIN DISPATCHING SIG. APP.	FIG. 13 & AUX. LINE CKTS. ARR. FOR USE WITH LINES EQUIPPED WITH TRAIN DISPATCHING SIG. APP.
D FULL PERIOD TALKING SERVICE	TOLL SYSTEMS SIGNALING CKT. FOR FULL PERIOD TALKING SERVICE
E TOLL OR LOCAL SUBSCRIBER ON A 2 WAY RINGDOWN BASIS	TOLL OR LOCAL SYSTEMS RURAL SUBSCRIBERS CKT.
F TRK. TO A MAGNETO CENT. OFF. WHEN NIGHT CONN. IS NOT REQ.	MAGNETO CENT. OFF. SUBSCRIBERS LINE CKT.
G INDIVIDUAL OR PARTY MAGNETO STATION LINE CKT.	MAGNETO SUBSCRIBER LINE WITH 3 OR 5 BAR HAND GENS.
H AS A STATION ON A MAGNETO PARTY LINE	MAGNETO SUBSCRIBERS LINE WITH 3 OR 5 BAR HAND GENS.

(MFR 103. DISC.) WHEN ATTENDANT'S TELEPHONE SET IS OF THE 302 TYPE, MODIFY TEL. SET BY ADDING 37B VAR. AS SHOWN IN FIG. 8. WHEN TEL. SET RINGER IS TO BE USED AS AC AUX. AUD. SIG., THE "1" 302E-3F OR "2" 302G-3F TEL. SET SHALL BE MODIFIED BY REPLACING THE D3AL CORD WITH A D4AH CORD CONNECTED AS SHOWN, AND SPREADING THE GONGS APART SO THAT THE CLAPPER DOES NOT STRIKE THEM WHEN RING CURRENT IS APPLIED. WHEN THE DC BUZZER IS SPECIFIED, THE D3AL CORD SHALL BE MODIFIED BY TAPING THE ENDS OF THE YELLOW CONDUCTOR. THE RED LEAD WILL BE CONNECTED FROM "R" OF THE PBX TO "L1" OF THE TEL. SET, AND THE GREEN LEAD FROM "T" OF THE PBX TO "L2" OF THE TEL. SET.

CIRCUIT NOTES CONT. ON 34-0106.

	12D	11D	10D	DWG. 1SS.
	12D	11D	10D	C.D. 1SS.

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104.

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	M	NONE		M		
5D				FIGS. 16, 17&18		FIGS. 1, 2&3
5D				FIG. 19		FIG. 12
6D	J OR K	K		J		K
6D				FIG. 20		
7B	F OR R	R		F		R
9B				R		F
9B	E	NONE		E		
10D				FIG. 21		FIG. 7
10D				FIG. 22		FIG. 6
10D				K		J
10D	ZA, ZB OR ZC	ZA OR ZC		ZB		ZA, ZC
10D	ZD OR ZE	ZD		ZE		ZD
12D	TEL SETS			ZF		G
12D				ZG		H
12D						FIG. 8

105. WHEN ATTENDANT'S TEL SET IS OF THE 500 TYPE AND THE TEL SET RINGER IS USED AS AC AUX AUD SIG ADJUST RINGER VOLUME TO SUIT ATTENDANT. WHEN THE DC BUZZER IS SPECIFIED, THE YELLOW AND BLACK CONDUCTORS OF THE DMAS-3 CORD ARE NOT USED, AND BOTH ENDS OF THESE CONDUCTORS SHOULD BE DISCONNECTED FROM THEIR TERMINALS AND TAPE.

106. IN THE 500L-3 OR 500LR-3 ATTENDANT'S MANUAL TEL SET, AN APPARATUS BLANK IS USED IN PLACE OF THE DIAL, AND THE G LEAD IS CONNECTED TO THE "RR" TERMINAL, INSTEAD OF TO THE "F" TERMINAL, AS IN DIAL SETS.

INFORMATION NOTES:

301. WHEN THE 1A KEY TEL SYSTEM IS TO BE USED FOR THE ATTENDANT OF THIS PBX, CONNECTIONS SHALL BE MADE AS FOLLOWS:

(MFR.
DISC.)

TEL SET TO BE USED		SEE FIG.
TEL SET WITH 5 PICK-UP KEYS & ONE HOLD KEY FOR USE WHEN TRK LOOP EXCEEDS CAPABILITY OF PBX	FIVE TRKS OF PBX TO BE USED	102
	LESS THAN FIVE TRKS OF PBX TO BE USED	103
TEL SET WITH 6 PICK-UP KEYS USED WITH 507B PBX TO ENABLE THE ATTENDANT TO ANSWER A TRK WHEN ALL THE CONNECTING CKTS ARE BUSY		101

(MFR. 302. EXISTING WIRE IS SHOWN DOTTED.
DISC.) ADDED WIRE IS SHOWN SOLID.

303. WHEN THE DC OPERATED BUZZER IS USED THE RINGER IN THE 1A KEY TEL SYSTEM IS NOT USED. WHEN THE 1A KEY TEL SYSTEM RINGER IS TO BE USED AS THE AC AUX AUD SIGN., TEL SET SHALL BE MODIFIED FOR COMMON RINGER OPERATION.

304. THESE SETS SHALL BE EQUIPPED WITH A VARISTOR, AND THE GONGS SHALL BE SPREAD APART SO THAT THE CLAPPER DOES NOT STRIKE THEM WHEN RINGING CURRENT IS APPLIED.

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12D 11D DWG. ISS.

12D 11D CD. ISS.

104.

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	M	NONE		M		

16-52V.

WORKING LIMITS

TRUNK AND STATION

MAX. CONDUCTOR LOOP RES.

TRK. SIGNALING 20~
1200Ω

CENT. OFF. TRK. SUPERVISION
*

MAX. EXT. CKT. LOOP

LOCAL CONNECTIONS		MIN. VOLTAGE AT PBX							
		16V.	18V.	20V.	22V.	24V.	26V.	28V.	30V.
STATION SIGNALING	FIG. A	150Ω	240Ω	330Ω	420Ω	510Ω	600Ω	690Ω	780Ω
	FIG. B OR C	675Ω	850Ω	1000Ω	1150Ω	1300Ω	1450Ω	1600Ω	1750Ω
STATION SUPERVISION		900Ω	1065Ω	1230Ω	1400Ω	1565Ω	1730Ω	1900Ω	2065Ω
STATION TRANSMISSION WITHOUT LONG LINE CKT.		220Ω	260Ω	300Ω	335Ω	375Ω	415Ω	450Ω	490Ω

MIN. INSULATION RES.

CENT. OFF. TRK. OR INDIVIDUAL STATION

MANUAL, PANEL OR CROSSBAR AREA

STEP BY STEP AREA

ALL STATIONS COMBINED

20,000Ω

30,000Ω

25V.

4350Ω

52V (MAX. PBX VOLTAGE)

8700Ω

* THE TRK. CONDUCTOR LOOP RES. PLUS THE MAX. STATION LOOP RES. SHALL NOT EXCEED THE CENTRAL OFFICE SUB. COND. LOOP RES. LESS 22 OHMS.

TIE TRK. CONNECTIONS

TYPE OF RINGING	OPTION	MAX. COND. LOOP WITH MIN. RINGING VOLTAGE		
		60V. 1200Ω	75V. 1700Ω	95V. 1950Ω
1. THRU BLOCKING CAPACITORS	S T	7000Ω	10,000Ω	12,000Ω
2. BY-PASSED CAPACITOR OR REP. COIL OR RELAYED OR DIRECT	- S	2000Ω 4500Ω	3000Ω 7500Ω	4000Ω 8000Ω
3. MAGNETO LINE 3 BAR GEN.	- S	3000Ω 7000Ω		
4. MAGNETO LINE 5 BAR GEN.	- S		3600Ω 8250Ω	

MIN. INS. RES.

10,000Ω

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	12D	11D	10D	DWG. ISS.
	12D	11D	10D	C.D. ISS.

HOLDING RANGES FOR VARISTOR HOLD CIRCUIT

TYPE OF CENTRAL OFFICE		MAX CENT. OFF. SUB. COND. LOOP LIMIT	CENT. OFF MIN VOLTS	MAX TRK COND LOOP	
				OPT ZA, ZC	OPT ZB
MANUAL	NOS. 1, 1C, 1D 10 AND 11	835	20	200	450
		675	21	240	490
		785	20	305	600
		835	21	365	650
	MACH RING. NO. 11	1200	24	745	1050
	NO. 9C AND 12			*	*
PANEL		835	21	220	450
		785	24.5	355	600
		895, 1000, OR 1200	45	*	*
CROSSBAR	NO. 1 NO. 5	1200	45	1045	*
SXS		635, 735 OR 885	45	730	*
		735 OR 865	46	830	*
		1200	45	1000	*
		1300	46	1100	*

*NOT LIMITING.

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12D 11D DWG. ISS.

12D 11D DWG. ISS.

HOLDING RANGES FOR VARISTOR HOLD CIRCUIT

TYPE OF CENTRAL OFFICE		MAX CENT. OFF. SUB. COND. LOOP LIMIT	CENT. OFF MIN VOLTS	MAX TRK COND LOOP	
				OPT ZA, ZC	OPT ZB
	NOS. 1, 1C, 1D 10 AND 11	835	20	200	450
		675	21	240	490
		785	20	305	600

BATTERY SUPPLY FEEDER CONDUCTOR RESISTANCE

MINIMUM VOLTAGE CENTRAL OFFICE OR BUILDING BATTERY	MINIMUM PBX VOLTAGE-FOUR OR MORE STATIONS									
	16	18	20	22	24	26	28	30	32	34
18	13	-	-	-	-	-	-	-	-	-
20	26	12	-	-	-	-	-	-	-	-
21	34	18	5	-	-	-	-	-	-	-
22	40	24	10	-	-	-	-	-	-	-
23	47	30	16	5	-	-	-	-	-	-
24.5	57	39	24	12	2	-	-	-	-	-
31	100	77	59	44	31	20	11	3	-	-
32	108	84	65	49	36	25	15	7	-	-
40	162	131	108	88	72	58	46	36	27	19
44	190	155	130	108	90	74	61	50	40	31
45	196	161	135	113	94	79	65	54	44	35
47.5	213	176	148	125	106	89	75	63	52	43

BATTERY SUPPLY FEEDER CONDUCTOR RESISTANCE

MINIMUM VOLTAGE CENTRAL OFFICE OR BUILDING BATTERY	MINIMUM PBX VOLTAGE-THREE OR LESS STATIONS									
	16	18	20	22	24	26	28	30	32	34
18	26	-	-	-	-	-	-	-	-	-
20	52	23	-	-	-	-	-	-	-	-
21	66	35	10	-	-	-	-	-	-	-
22	79	47	21	-	-	-	-	-	-	-
23	92	59	31	9	-	-	-	-	-	-
24.5	112	76	47	24	4	-	-	-	-	-
31	197	151	115	85	61	40	22	7	-	-
32	210	162	126	96	70	48	30	14	-	-
40	315	259	210	171	140	113	90	70	52	37
44	368	304	252	209	175	145	120	97	78	62
45	382	316	263	219	184	153	128	105	85	68
47.5	414	345	290	243	205	173	146	122	101	83

WHEN THE BATTERY SUPPLY FOR THIS CIRCUIT IS OBTAINED FROM THE BUILDING BATTERY SUPPLY THE FOLLOWING APPLIES:

CURRENT DRAIN IN AMPERE HOURS PER
BUSY HOUR *
20V.

	BAT.	GRD.
DRAINS LIST 1 (FOR POWER PLANT)	.0035	.0035
DRAINS LIST 2 (FOR DISTRIBUTING EQPT.)	.035	.035

* THESE DRAINS ARE PER STATION OR TIE LINE, AND ARE BASED ON A TRAFFIC ACTIVITY OF 200 CALL SECONDS PER STATION PER BUSY HOUR. FOR OTHER TRAFFIC ACTIVITY THE DRAINS WILL BE DIRECTLY PROPORTIONAL. THESE DRAINS ARE FOR A VOLTAGE AT THE PBX OF 20 VOLTS. FOR OTHER VOLTAGES THE DRAINS ARE DIRECTLY PROPORTIONAL.

FIGURE 1
1000 CYCLE LOSS BETWEEN 600Ω LINEIN)

FIG. 7

MAX. ALLOWABLE CIRCUIT LOSS (db)
0.1

FIG. 21

MAX. ALLOWABLE CIRCUIT LOSS (db)
0.2

(A)
REP. COIL

MAX. ALLOWABLE CIRCUIT LOSS (db)
0.1

(A)
REP. COIL

MAX. ALLOWABLE CIRCUIT LOSS (db)
0.1

ALLOWABLE INDIVIDUAL APPARATUS LOSSES (db)			
APPARATUS	DESIG.	CODE	MAX. LOSS MIN. LOSS
CAPACITOR	A	KS-13541	
CAPACITOR	A, B	4 μF	19.6 17.5
CAPACITOR	T, R	1 μF	8.5 6.6
CAPACITOR	R	2 μF	13.7 11.7
INDUCTOR	A-E	274 AG	0.1
RELAY	A-E	B1048	0.4
REP. COIL	A	202A	1.5 0.6
THERMISTORS	T, R	8A	0.2

* INDICATES APPARATUS FOR WHICH INDIVIDUAL LOSSES ARE NOT REQUIRED

ELECTROLYTIC CAPACITOR TEST REQUIREMENTS
(1000 CYCLE TEST, USING 73A TEST SET, BETWEEN 6000 LINES)

		OVERALL LOSSES			REMARKS	
		TEST SET TERMINALS	TEST CONNECTIONS CONNECT TO	MIN. LOSS IN db		
(A)		CAP (A)	3-7	1-2	7.8	REMOVE BAT.

INDIVIDUAL APPARATUS LOSSES						
APPARATUS	DESIG.	CODE	TEST CONNECTIONS		MIN LOSS IN db	REMARKS
			TEST SET TERMINALS	CONNECT TO		
CAPACITOR	A	K5-13541	3-7	1-2	7.8	REMOVE BAT.

NOTES:

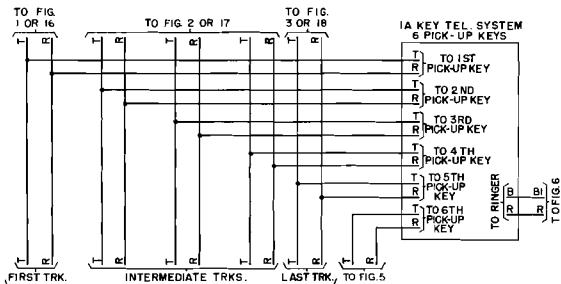
CAUTION DISCHARGE CAPACITORS IN ACCORDANCE WITH THE A200 SECTION B5P COVERING THE TESTING OF ELECTROLYTIC CAPACITORS. DO NOT SHORT CIRCUIT CAPACITORS.

TRANSMISSION TEST REQUIREMENTS
(1000 CYCLE LOSS BETWEEN 600Ω LINE)

FIG. 7

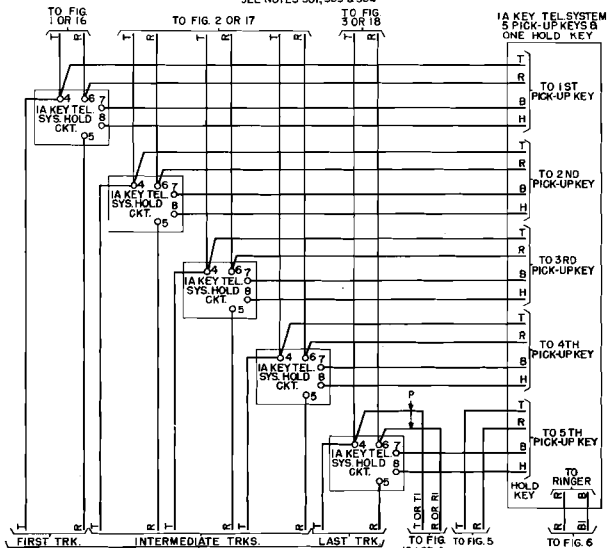
FIG. 21

FIG. 101 (MFR. DISC.)
METHOD OF CONNECTING PBX TO TEL. SET WITH 6 PICK-UP KEYS
SEE NOTES 301, 303 & 304



TO COMMON BAT. CENT. OFF. OR TO
TWO WAY AUX. TRK. TO MAGNETO
CENT. OFF. DIRECT OR THRU EMG. TRNS. KEY CKT.

FIG. 102 (MFR. DISC.)
METHOD OF CONNECTING PBX TO TEL. SET WITH 5 PICK-UP KEYS
AND ONE HOLD KEY WHEN 5 TRKS. ARE USED
SEE NOTES 301, 303 & 304



TO COMMON BAT. CENT. OFF. OR TO TWO WAY AUX. TRK. TO
MAGNETO CENT. OFF. DIRECT OR THRU EMG. TRNS. KEY CKT.

FIG. 103 (MFR. DISC.)
 METHOD OF CONNECTING PBX TO TEL. SET WITH 5 PICK-UP KEYS
 AND ONE HOLD KEY WHEN 4 OR LESS TRKS. ARE USED
 SEE NOTES 301, 303 & 304

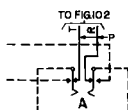
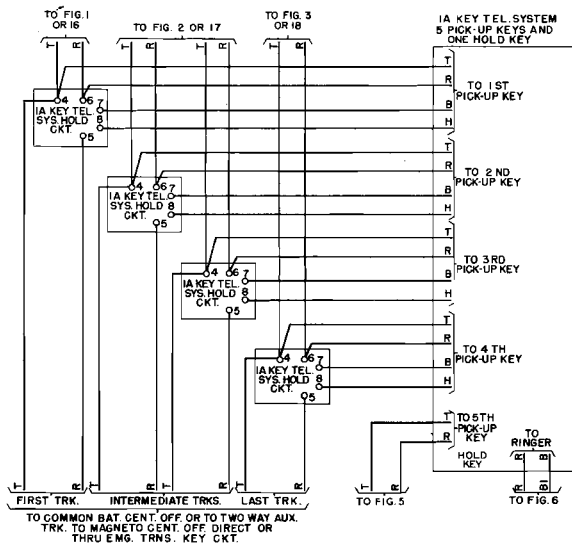
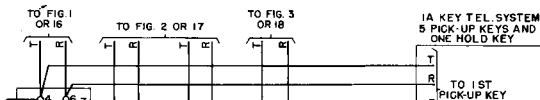


FIG. 104 (MFR. DISC.)
 MODIFICATION OF ATTENDANTS KEY CKT. (FIG. 5)
 SEE NOTES 301 & 302

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	12D	11D	10D	DWG. ISS.
	12D	11D	10D	C.D. ISS.

SEE NOTES 301, 303 & 304



SD-65680-0113 2 PAGES										CIRCUIT REQUIREMENTS										A
PBX NO. 507A OR 507B																				
APPARATUS					MECH. REQ.			CIRCUIT PREPARATION			TEST SET		DIRECT CURRENT FLOW REQ.					REMARKS		
DESIG.	CODE	OPTION	CKT. FIG.	RATING	BSP FIG.	CONT. PRESS.	ARM. TRVL.	BLOCK OR INSULATE	TEST CLIP DATA		TEST SET PREP.	SEE TEST NOTE NO.	TEST WDG.	TEST FOR	AFTER SOAK MA	TEST MA	READJ. MA			
										CONN. BAT.	CONN. GRD.									
MAGNETS																				
B	4C		9									I								
	BUZZER																			
RELAYS																				
A,	B1048		3,		3		30		1M	3M	M		P/S	O	60	8.5	7.8	ADJ "B"		
B,			18						1M	REL. 3M	REL. M		P/S	R	60	3.9	4.3			
C,									1M	TST. 3M	TST. M		P/S	O	60	10.7	9.6	ADJ "A"		
D,									1M	3M	M		P/S	R	60	5.8	6.2			
E																				
F	U735		11		132/132	H	47			T (F)	GRD.			O		17.5	16.5			
G	B1136		11		11		30	3B (F)	1M (G)	2M (G)	B/G			O	17	4.4	4			
								3B (F)	1M (G)	2M (G)	B/G			R	17	1.9	2.1			
L	U6102		B		115/136	H	29			T (L)	GRD. 6			O		12.3	11.7			
										T (L)	GRD. 6			R		3.7	3.9			
LI	UA4		7		111/136	SPL.	SPL.		TR (LI)		BAT. 3/4/5			O		3.3	3.1	REL.		
									TR (LI)		BAT. 3/4/5			NO		2.1	2.3	ALONE OR CKT.		
									TR (LI)		BAT. 3/4/5			H		1.8	1.7	COMB. OF (LI)		
											AC 2/5			O		AC	AC	REL. & (LI) VAR.		

TEST NOTES:

- THE 4C BUZZER SHALL BE TESTED AND READJUSTED TO OPERATE SATISFACTORILY IN THE CKT. WHEN THE (T) REL. IS BLOCKED OPERATED.
- TEST & READJUST (LI) REL. IN CKT. COMB. FOR OPR. ON RING. CURRENT AS FOLLOWS:
 (A) BY MANUALLY RING FROM CENT. OFF. OR
 (B) BY APPLYING MIN. 95V (100-1200 RPM) RING CURRENT IN SERIES WITH ONE 13B RES. LAMP (OR EQUIVALENT) & 13000Ω. NON-IND. RES. TO THE TIP OF THE TRK. AT THE PBX.
 REPEAT TEST B TO THE RING OF THE TRK. AT THE PBX.

- ARMATURE TRAVEL 23 MAX.
- FRONT CONTACT MAKE - 6 READJUST, 4 TEST.
- KEY (A) OF ASSOC. TRK. KEY CKT. TO BE OPERATED WHEN MAKING ADJUSTMENTS.
- KEY (A) OF ASSOC. LINE CKT. TO BE OPERATED.
- ON ISSUE 10D ADJ. "A" IS SUPERSEDED BY ADJ. "B"

DWG. 159.

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APPARATUS					MECH. REQ.			CIRCUIT PREPARATION				TEST SET PREP	SEE TEST NOTE NO.	DIRECT CURRENT FLOW REQ.					REMARKS	DWG. ISS.
DESIG.	CODE	OPTION	CKT. FIG.	RATING	BSP. FIG.	CONT. PRESS.	ARM. TRVL.	BLOCK OR INSULATE	TEST CLIP DATA		TEST WDG.			TEST FOR	AFTER SOAK	TEST	READJ.			
									CONN. BAT.	CONN. GRD.				MA	MA	MA				
L1	UA144		21		101/101	H	29		BF(L1)	TF(L1)	B/G	7	P	O		9.2	8.7	1		
									BF(L1)	TF(L1)	B/G	7	P	NO		5.8	6.2	2		
									BR(L1)	TR(L1)	B/G	7	S	O		4.4		3		
											AC	6			AC	AC		4		
																		5		
L2	B618		11		3		30					4	P	O		AC		6		
								I(L2)	IM(L2)		BAT		S	O		16.5	15	7		
								I(L2)	IM(L2)		BAT		S	NO		9.2	10.2	8		
																		9		
S	U735		13		132/132	H	47			T(S)	GRD.			O		17.5	16.5	10		
T	B1011		6		1		30			2M(T)	GRD.	1		O		21	19	11		
										2M(T)	GRD.			R		6.3	7	12		
T	B1166		22		9		30			2M(T)	GRD.	8		O	100	14	13			
										2M(T)	GRD.			R	100	7.2	7.6			
MISC.																				
KEYS																				
	586A88	K	4,5,10									2								
	586C		1,2,3									2/5								
	586D	K	16,17,18																	
8B KEY TEL. UNIT																				
L	U6102		C		115/136	H	29			TERM.4	GRD.	3		O		12.3	11.7			
										TERM.4	GRD.	3		R		3.7	3.9			
TEST NOTES:																				
1. OPERATE (BUZZER) KEY TO "ON" POSITION WHEN TESTING OR READJUSTING.																				
2. WHEN LEVER IS RELEASED FROM OPERATED POSITION TO NORMAL, NO MAKE CONTACT DESIGNATED "X" SHALL MAKE, OR BREAK CONTACT DESIGNATED "X" BREAK, ON THE OPPOSITE SPRING COMB.																				
3. (A) KEY OF ASSOC. LINE CKT TO BE OPERATED.																				
4. TEST FOR OPR. BY RING. FROM DISTANT PBX OR BY APPLYING 95V. MIN. 111V. MAX. 1100-1200 R.P.M. RING. CURRENT THRU A13C RES. LAMP AND 8000Ω ±1% NON-IND. RES. TO "RI" FIG. II AND RING. GRD. TO "TI" FIG. II WITHOUT "S" OR "T" OPTION.																				
5. ALL CONT. OF THE (A),(B),(C),(D) & (E) KEYS EXCEPT THOSE DESIGNATED (Y) SHALL MEET THE CROSS SEQUENCE REQ. AS COVERED IN BSP.																				
6. APPLY MIN. 95V.(1100-1200 R.P.M.) RING. CURRENT IN SERIES WITH 13B RESISTANCE LAMP (OR EQUIVALENT) AND 7000Ω NON-INDUCTIVE RESISTOR ACROSS THE TIP AND RING OF THE TRK. CKT. AT THE PBX.																				
7. KEY (A) OF ASSOC. TRK. KEY CKT. TO BE OPERATED.																				
8. OPERATE (BUZZER) KEY TO "ETS" POSITION WHEN TESTING OR READJUSTING.																				

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FIG. 51 (MFR. DISC.)

(FOR FIGS. 1 OR 16, 2 OR 17, 3 OR 18, 4, 5, 6 OR 22, 7 OR 21, 8 & 10)
507A PBX WITH FABRICATED CHASSIS

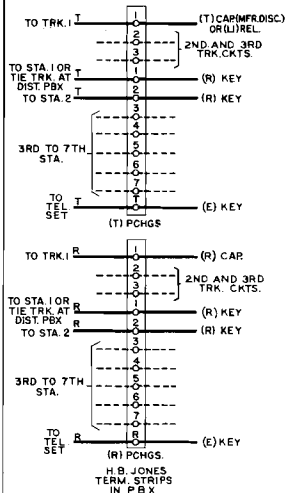
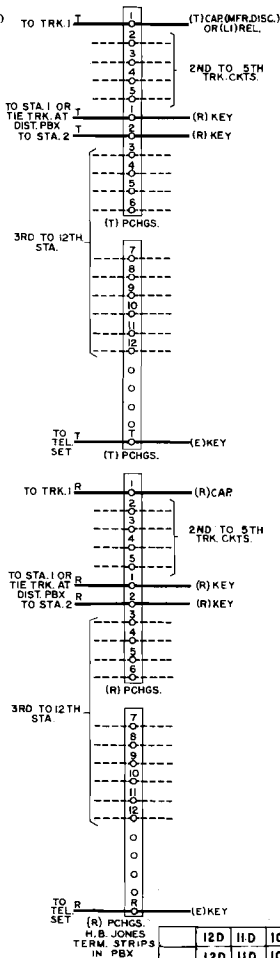


FIG. 52 (MFR. DISC.)

(FOR FIGS. 1 OR 16, 2 OR 17, 3 OR 18, 4, 5, 6 OR 22, 7 OR 21, 8 & 10)
507A PBX WITH FABRICATED CHASSIS



EQUIPMENT NOTES:

201. PRIOR TO ISSUE 5D, IN FIGS. 51 AND 52 THE TERMINAL STRIPS WERE NUMBERED 1-11 CONSECUTIVELY ON EACH TERMINAL STRIP. THE (T) PCHGS WERE DESIGNATED T.S. (T1) AND T.S. (T2). THE (R) PCHGS WERE DESIGNATED T.S. (R1) AND T.S. (R2).

(CONT. ON SH. 017)

FIG. 53 (MFR DISC)
(FOR FIGS 6 OR 22, 9, 10, 11, 15, A, C, D, & E)
507A & 507B PBX
WITH FABRICATED CHASSIS

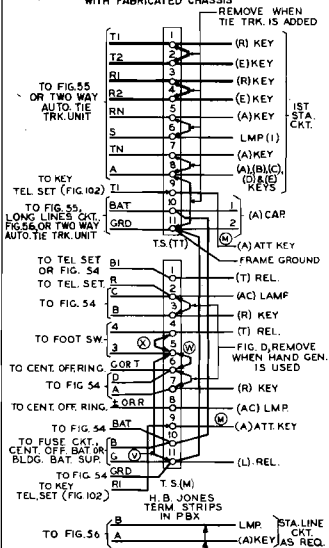


FIG. 54
(FOR FIGS. 9 & E)
507A & 507B PBX

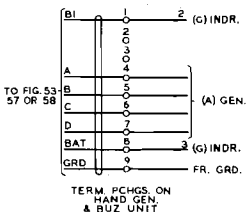


FIG. 55
(FOR FIGS. 11, 12 & 13)
507A & 507B PBX

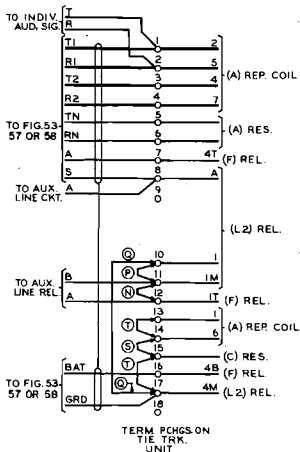


FIG. 56
(FOR FIG. C)

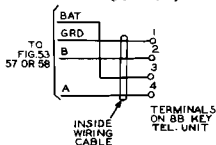


FIG. 1
(MFR DISC.)
BAT FEED AND
FIRST TRK KEY CKT

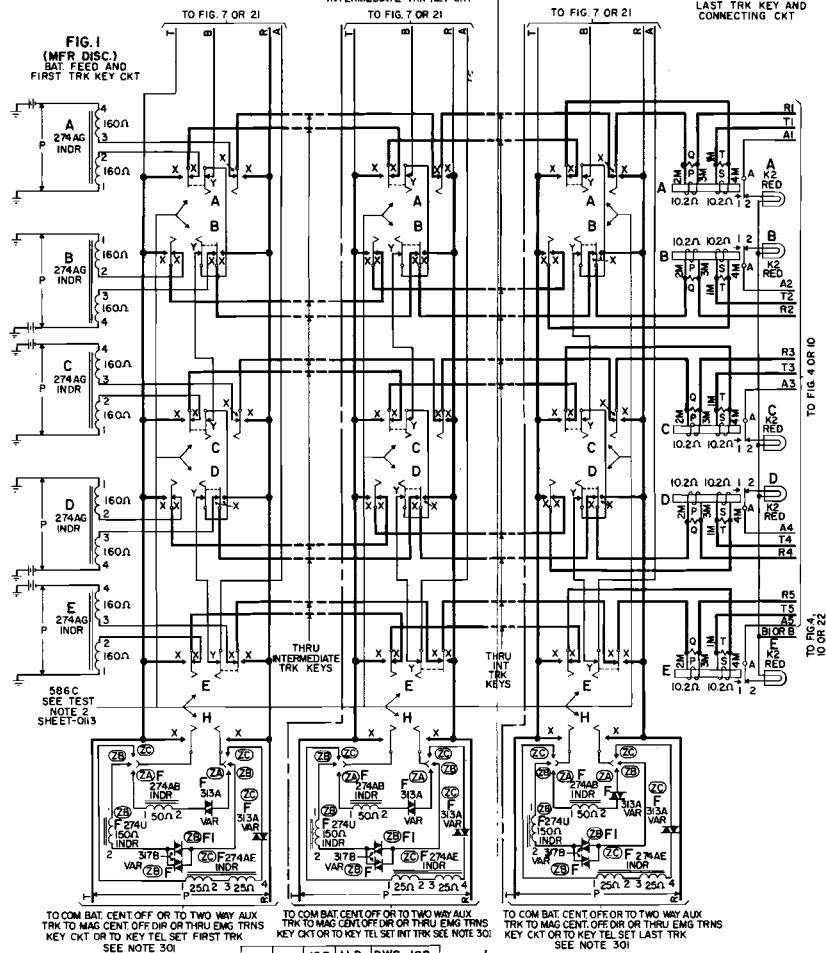
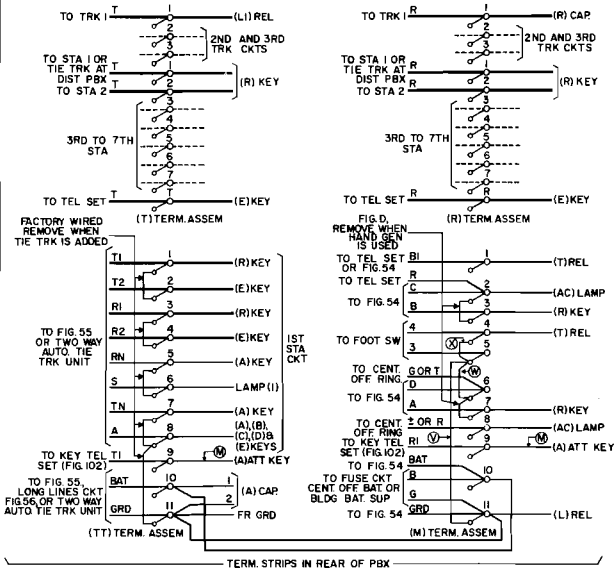


FIG. 2 (MFR DISC.)
INTERMEDIATE TRK KEY CKT

FIG. 3 (MFR DISC.)
LAST TRK KEY AND
CONNECTING CKT

FIG. 57

(FOR FIGS. 4, 5, 8, 9, 10, 11, 15, 16, 17, 18, 21, 22, A, C, D & E)
507A PBX WITH DIE CAST CHASSIS
SEE NOTE 202



EQUIPMENT NOTES (CONT):

202. THE TERMINALS IN FIG. 57 & 58 HAVE SCREWS FOR THE HOUSE AND FEEDER CABLES AND THE TELEPHONE CORD CONNECTIONS. EACH TERMINAL IS PROVIDED WITH AN AUXILIARY TERMINAL FOR VARIABLE STRAPPING AS SHOWN BELOW:

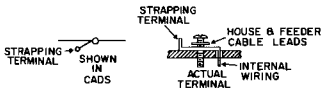
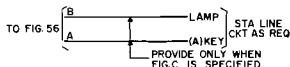
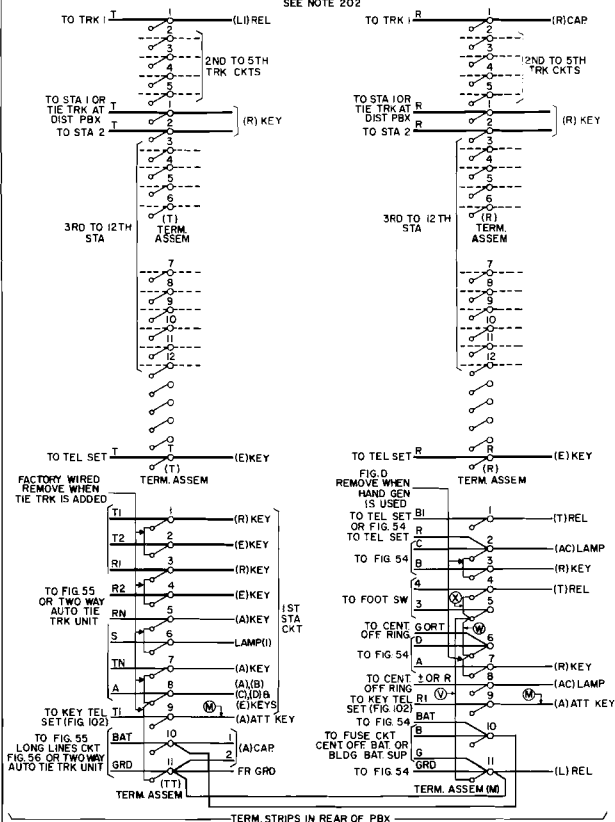


FIG. 58
(FOR FIGS. 4, 5, 8, 9, 10, 11, 15, 16, 17, 18, 21, 22, A, C, D & E)
507B PBX WITH DIE CAST CHASSIS
SEE NOTE 202



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		I2D	I1D	DWG ISS
		I2D	I1D	C D ISS

SEE NOTE 202

