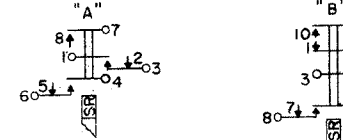


CIRCUIT NOTES:

101. WHEN USED IN 350A, 355A, 360A, OR 35-E-97 OFFICE PROVIDE ONE 1 1/3 AMP. FUSE FROM 48V. TALK. BAT. FOR EACH 5 OR LESS REPEATERS. OTHERWISE PROVIDE ONE 3 AMP. FUSE FROM 48V TALK. BAT. FOR EACH 10 OR LESS REPEATERS

SEE NOTES 112, 113, 305 AND 308	FEATURE OR OPTION	PROVIDE		
		FIGS.	APP. OR WIR.	QUANTITY
	TRUNK TO ESS NO. 1, STEP BY STEP OR CROSS BAR TANDEM (EAS) AND THE CON- DUCTOR LOOP IS	500Ω TO 2000Ω LESS THAN 500 Ω	Q, V, Z1 Q	
	TRUNK TO NO. 5 CROSSBAR WITH AJ115 OR AJ29 PUL- SING RELAY AT THE NO. 5 CSBR AND THE TRUNK CONDUCTOR LOOP IS	500.Ω TO 1500 Ω LESS THAN 500 Ω	Q, V Q	
	TRUNK TO NO.5 CSBR WITH AJ136 OR AJ34 PULSING RELAY AT THE NO. 5 CSBR AND THE TRUNK CONDUCTOR LOOP IS	500 Ω TO 2000 Ω LESS THAN 500 Ω	Q, V, Z1 Q	
	WHEN CONNECTED TO ROT OUT TRK SWITCH ARRANGED FOR PRESELECTION OR TO MAKE BUSY CIRCUIT		T	
	RESERVED NO. OR VACANT LEVEL INTERCEPT AND/OR MEASURED RATE SERVICE REQUIRED	YES NO	ZY ZX	

103. THE DIFFERENCE BETWEEN THE (C) RELAYS IN FIG. 1 IS AS FOLLOWS:



104. BATTERY AND GROUND FOR CKT. 1 SHALL BE OBTAINED FROM PLUG 12 AND 11. AND FOR CKT. 2 FROM PLUG 10 AND 13.

CHANGED ON ISS.	RECORD OF FIGURES, WIRING, AND APPARATUS CHANGES									
	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION HAS FURN.	SEE NOTE	USE IN CIRCUIT				SPL.		
				STD.	ASM.	M.D.				
4 B	Z	NONE	104	X						
5 D	X OR Y	Y		Z		Y				
7 D	T	NONE	107						T	
8 D	W	NONE			W					
9 D	R OR S	S			R	S				
9 D	N OR O	O	102	N, O						
9 D			102	T						
10 D	M	N OR O	113	M		N				
13 B	J	NONE		J						
13 B	H	NONE	113		H					
13 B	X OR G	Q, H OR N WITH G			K	G				
16 A	F	NONE	109	F						
17 D	Z, ZL, ZD	F	102	Z, ZL, ZD		F				
17 D	ZB	X OR G	110	ZB						
17 D	ZC	Q, W, N, OR K	110	ZC						
18 D	ZF OR ZG	ZE	302	ZG	ZF	ZE				
18 D	ZJ	ZH	111	ZJ	ZH					
18 D	FIG. I OR 3	FIG. I		3	I					
18 D						FIG. 2				
18 D	ZI	NONE		ZI						
18 D	ZB OR G	ZB		G		ZB				
18 D					B	ZD, ZG				
19 D	ZK	ZF OR ZG OR ZE OR S OR R		ZK		R				
20 B	ZL, ZM OR ZN	ZL, ZG, ZL, ZK OR ZL, ZG, S OR R OR ZL, ZK OR ZL, ZF, R	112	ZM	ZN	ZL, ZK, ZF				
20 B	ZO OR ZF	ZO		ZP		ZO				
22 D					M					
24 D	ZR	ZB OR ZO OR ZP		ZR		ZO, ZP				
24 D	ZS OR ZT	ZS	114	ZT		ZS				
24 D	ZU OR ZV	ZU		ZV		ZU				
24 D	ZW OR W	NONE	113		ZW	W				
26 B	RESISTORS			K502289		44 B				
26 B	DIODES			476F		446F				
26 B	ZX OR ZY	ZX	102	ZX OR ZY						
28 B	DIODES			938A		426A H				

2D-3177a-01-1

106. WHEN CAPACITORS (T) & (R) ARE PART OF A MULTI-UNIT CAPACITOR THEY SHALL BE BALANCED WITHIN 0.11UF.

107. WHEN AN A-B TOLL PREC. SEL. CKT. IS CONNECTED BETWEEN THE OUTGOING END OF THIS CKT. AND THE TRK., ALL THE TRK. CONDUCTORS CONNECTED TO THE BANK LEVELS OF THE SEL. SHALL HAVE THE SAME RES. AND APPROX. THE SAME MAKE UP OF OPEN WIRE AND CABLE.

108. THE DIFFERENCE BETWEEN THE (B) RELAYS IN FIG. 15 AS FOLLOWS:

109. "F" OPTION SHOULD ONLY BE APPLIED ON TRUNKS TO STEP BY STEP OFFICES WHERE THE COND. LOOP IS UNDER 500Ω AND "K" OPTION IS PROVIDED.

11C. PRIOR TO ISSUE 17-D "ZC" WAS PART OF "Q" AND "ZB" WAS PART OF "K" OPTION.

III. PRIOR TO ISSUE 18 D "ZH" WAS PART OF "Q".

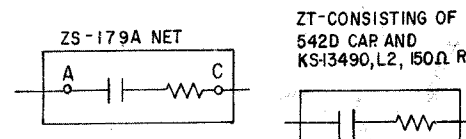
112. A & M (FOR FIG. 1)

A & M (FOR FIG.1)		PROVIDE		
FEATURE OR OPTION		FIGS.	APP. OR WIR.	QUANTITY
REPEATER FOR TRUNK TO CALL INDICATOR OFFICE. SEE NOTE 301.	CONDUCT. LOOP 600 A OR OVER CONDUCT. LOOP UNDER 600 A	1	8, E, J, Q, Z, ZH	ONE PER CKT. ONE PER CKT.
TO OPEN BOTH T R OR TRUNK WHEN REPEATER IS IDLE SEE NOTE 302	IF REPEATER IS CONNECTED TO ROT. OUT TRK SW ARRANGED FOR PRE SELECTION IF REPEATER IS NOT CONNECTED TO ROT. OUT TRK SW ARRANGED FOR PRE SELECTION		ZM	
			ZN	
IF DIFFICULTY IS ENCOUNTERED IN APPLYING PERCENTAGE BREAK REQ. TO (A) REL. IN EXISTING CKTS. ARRANGED FOR LOOP PULSING			ZJ, G,Q	

113. (SEE TABLE AT RIGHT)

114. THE DIFFERENCE BETWEEN OPTIONS ZS AND ZT IS AS FOLLOWS.

114. THE DIFFERENCE BETWEEN OPTIONS ZS AND ZT IS AS FOLLOWS.



INFORMATION NOTES:

301; "B" OPTION MAY BE REUSED IN PLACE OF "A" OPTION WHEN
CALL INDICATOR OFFICE IS REPLACED.

302. IF DIFFICULTY IS ENCOUNTERED WITH CIRCUITS MFR. PRIOR TO ISS. 18D,
DUE TO INDUCTIVE INTERFERENCE ON THE TRUNK AND THIS CIRCUIT
IS NOT TO BE CONNECTED TO ROT. OUT. TRK. SW. ARR. FOR PRE SELECTION,
USE "7N" OPTION. IF THIS CIRCUIT IS CONNECTED TO A ROT. OUT TRK. SW.
ARR. FOR PRE SELECTION USE "7M" OPTION.

303 WHERE DIFFICULTY IS ENCOUNTERED IN APPLYING PERCENT BREAK ADJUSTMENTS TO THE (A) RELAY IN CKTS. MFR. PRIOR TO ISS. 18D AND ARRANGED FOR LOOP PULSING THEY SHOULD BE CONVERTED TO BATTERY-GROUND PULSING USING OPTIONS "ZJ", "Q" AND "G" AND OMITTING "Y", "X", "ZB" AND "ZA".

304. THIS TABLE IS SHOWN TO RECORD STANDARD OPTIONS PRIOR TO ISSUE 180.

ISSUE NO.		PROVIDE		
FEATURE OR OPTION		FIGS.	APP. OR WIR.	QUANTITY
REPEATER SEE NOTE 301	OTHER THAN CALL INDICATOR	1	A-J,Y, 2,ZB, ZC,ZD	ONE PER CKT
REPEATER FOR TRUNK TO CALL INDICATOR OFFICE. SEE NOTE 301.	CONDUCT. LOOP 600Ω. OR OVER CONDUCT. LOOP UNDER 600Ω	1 1,2	B,E, V,J, Z,ZC	ONE PER CKT ONE PER CKT
TRUNK TO NO. 1 CROSSBAR IF CONNECTED TO A SUBSCRIBER SENDER OR TRUNK TO PANEL STEP BY STEP OR NO. 5 CROSSBAR	CONDUCT. LOOP 500Ω. OR OVER CONDUCT. LOOP UNDER 500Ω		Q K,ZA	
TRUNK TO NO. 1 CROSSBAR IF CON- NECTED TO A D.P. TER SENDER OR TRUNK TO CROSS- BAR TANDEM	CONDUCT. LOOP 500 Ω. OR OVER CONDUCT. LOOP UNDER 500 Ω.		M K	
WHEN CONNECTED TO A-B TOLL OPERATING SET (SPECIAL)			T, Q	

305. WHEN CONNECTING TO CARRIER SYSTEMS
SEE SD-99421-01.

(MFR DISC306. PROVIDE MODIFICATION DRAWING ES-32506-01

WHERE POWER INDUCTION IS PRESENT.

(MER DISC) 307 ES-32506-01 ADDED TO THIS CIRCUIT BY OPTION ZR.

(MFR DISC.) 307. ES-32506-01 ADDED TO THIS CIRCUIT BY OPTION 2R.

308. OPTION ZR FIG. 3 IS PROVIDED TO CORRECT PROBLEMS OF SPLIT PULSING AND PULSING FAILURES CAUSED BY INDUCED AC.

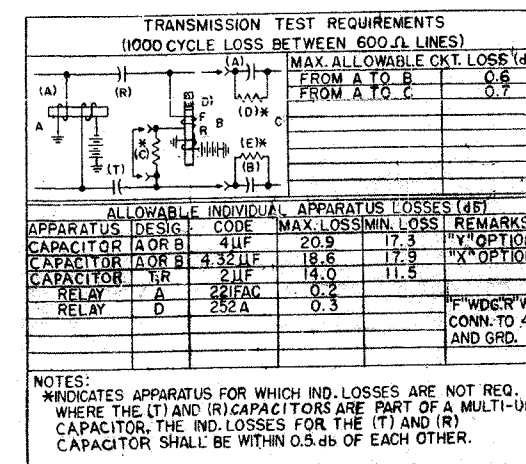
WORKING LIMITS:

FOR PULSING SEE KEY SHEETS

SUPERVISION	INCOMING (A) RELAY	OUTGOING (D) RELAY
1	2	3
4	5	6
7	8	9
10	11	12
13	14	15
16	17	18
19	20	21
22	23	24
25	26	27
28	29	30
31	32	33
34	35	36
37	38	39
40	41	42
43	44	45
46	47	48
49	50	51
52	53	54
55	56	57
58	59	60
61	62	63
64	65	66
67	68	69
70	71	72
73	74	75
76	77	78
79	80	81
82	83	84
85	86	87
88	89	90
91	92	93
94	95	96
97	98	99
100	101	102
103	104	105
106	107	108
109	110	111
112	113	114
115	116	117
118	119	120
121	122	123
124	125	126
127	128	129
130	131	132
133	134	135
136	137	138
139	140	141
142	143	144
145	146	147
148	149	150
151	152	153
154	155	156
157	158	159
160	161	162
163	164	165
166	167	168
169	170	171
172	173	174
175	176	177
178	179	180
181	182	183
184	185	186
187	188	189
190	191	192
193	194	195
196	197	198
199	200	201
202	203	204
205	206	207
208	209	210
211	212	213
214	215	216
217	218	219
220	221	222
223	224	225
226	227	228
229	230	231
232	233	234
235	236	237
238	239	240
241	242	243
244	245	246
247	248	249
250	251	252
253	254	255
256	257	258
259	260	261
262	263	264
265	266	267
268	269	270
271	272	273
274	275	276
277	278	279
280	281	282
283	284	285
286	287	288
289	290	291
292	293	294
295	296	297
298	299	300
301	302	303
304	305	306
307	308	309
310	311	312
313	314	315
316	317	318
319	320	321
322	323	324
325	326	327
328	329	330
331	332	333
334	335	336
337	338	339
340	341	342
343	344	345
346	347	348
349	350	351
352	353	354
355	356	357
358	359	360
361	362	363
364	365	366</

				(A) RELAY	(D) RELAY
TIME	SWT	AKT	LOAD	23400	25600

MAX. EXT. CRT. LOOP	234011	298012
MAX. INQ. RES.	30,000.0	30,000.0



OUTGOING REPEATER CIRCUIT

BELL TELEPHONE LABORATORIES
INCORPORATED

ISSU

20



R

1. *Journal of the American Medical Association*, 1997; 277: 1033-1038.

1SD-31779-01-1

35 0115 011

1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Arar and Collins (1971).

FIG. 1 (A & M ONLY)
REPEATER
SEE NOTES 301, 302, 303 AND 304

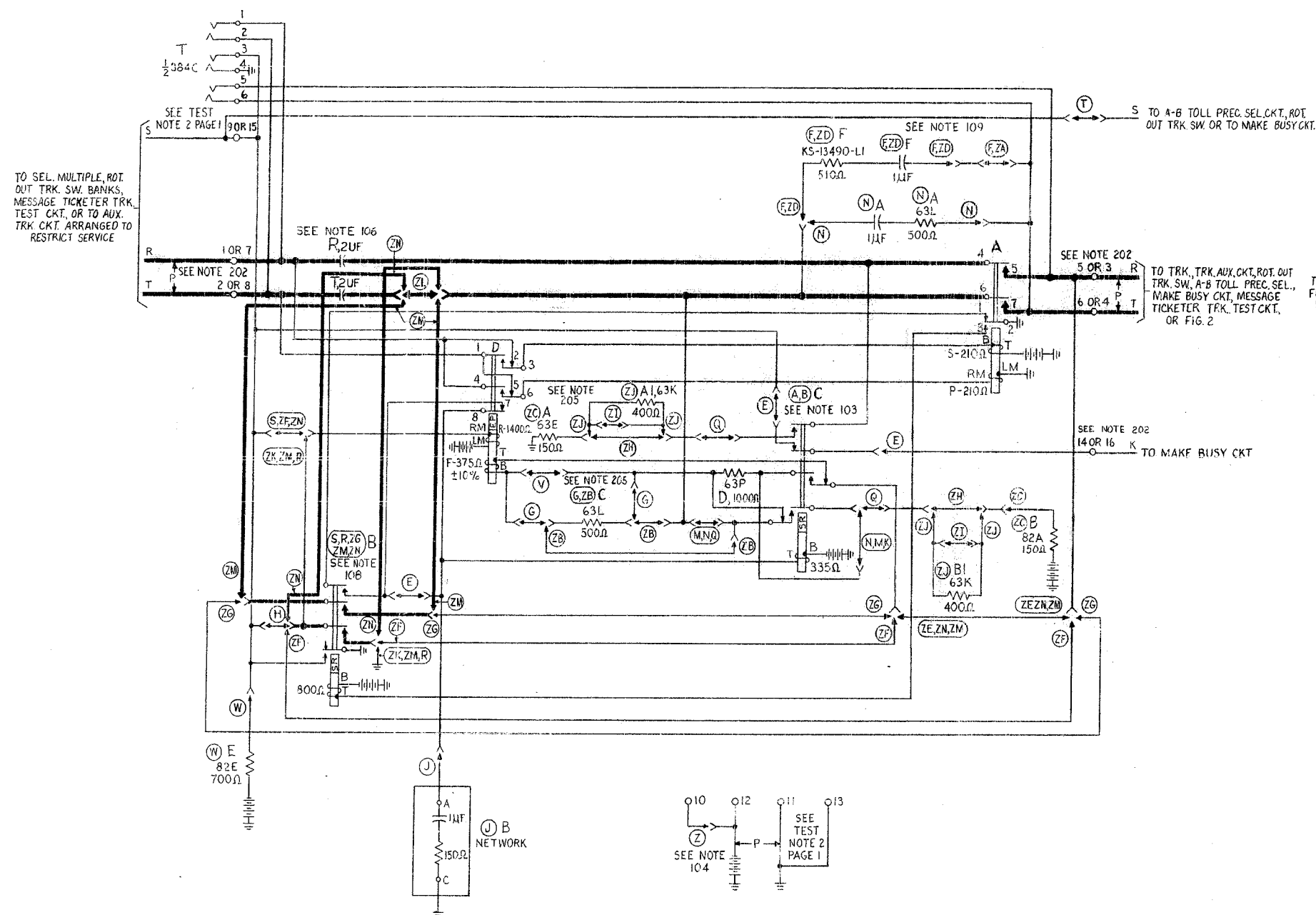
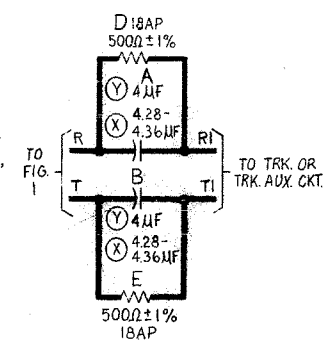


FIG. 2 (A&M ONLY)
SHORT LOOP COMPENSATOR
SEE NOTES 112 & 304



CIRCUIT REQUIREMENTS

APPARATUS			MECH REQ				CIRCUIT PREPARATION				TEST SET		SEE TEST		DIRECT CURRENT FLOW REQ				TIME REQ		REMARKS
DESIG	CODE	OPT	FIG.	RESO	BSP FIG.	CONT PRES	ARM TRVL	BLOCK OR INSULATE	TEST CLIP DATA		TEST PRER	TEST NOTE	TEST WDS	TEST FOR	TEST FOR	TEST FOR	TEST FOR	TEST SEC	TEST SEC		
RELAYS																					
A	22FAC		1,3	4-8	366		8	(D) NO	TST-JK-2	TST-JK-1	M	1,4,5	P/S	O	FS	14.1	13.4				
								(D) NO	TST-JK-2	TST-JK-1	H	7	P/S	NO	FS	11.7	12.4				
								(D) NO	TST-JK-2	TST-JK-1	H	1,4,6,8	P/S	O	FS	16					
								(D) NO	TST-JK-2	TST-JK-1	H	6,8	P/S	NO	FS	11.5					
B	248F	70, 2M	1,3	15-4	516		27			3(A)	GRD	9		O	FS	10.5	10				
										3(A)	GRD	9		NO	FS	8.5	9				
										TST-JK-2	TST-JK-1	V-BR	3,7	H							
										TST-JK-2	TST-JK-1	V-BR	3	R							
										3(A)	GRD	3		NO	FS	8.5	9				
B	248J	S	1	15-4	522		28			3(A)	GRD	9		O	FS	10.5	10				
										3(A)	GRD	9		NO	FS	8.5	9				
										TST-JK-2	TST-JK-1	V-BR	3,7	H							
										TST-JK-2	TST-JK-1	V-BR	3	R							
										3(A)	GRD	3		NO	FS	8.5	9				
B	248D	R,ZN	1	15-4	504		28			3(A)	GRD	9		O	FS	10.5	10				
										3(A)	GRD	9		NO	FS	8.5	9				
										TST-JK-2	TST-JK-1	V-BR	3,7	H							
										TST-JK-2	TST-JK-1	V-BR	3	R							
										3(A)	GRD	3		NO	FS	8.5	9				
C	247H	B	1	15-4	519		48			8(D)	GRD	9,16		O	FS	26	24.5				
										8(D)	GRD	9,16		NO	FS	16	17				
										TST-JK-2	TST-JK-1	V-M	3,17	H							
										TST-JK-2	TST-JK-1	V-M	3	R							
										8(D)	GRD	3,16		NO	FS	16	17				
C	247J	A	1,3	15-4	521		49			8(D)	GRD	9,10		O	FS	21	20				
										8(D)	GRD	9,10		NO	FS	13.3	14				
										TST-JK-2	TST-JK-1	V-M	3,17	H							
										TST-JK-2	TST-JK-1	V-M	3	R							
										8(D)	GRD	3,10		NO	FS	13.3	14				
D	252A	3			367		18	2(C), 5(C), 1(A), 1(A), 1(B)	5(C)	2(C)	B/G	11,15,15	F	O		14	13.3				
									5(C)	2(C)	B/G	11,15	F	H		-9.5	-10				
									5(C)	2(C)	B/G	11,15	F	R		-14	-15.5				
									5(C)	2(C)	B/G	11,15	F	NO		9.7	10.3				
									5(C)	2(C)	B/G	11,15,18	F	NO		-64	-67.9				
D	252A	1			367		18	5(C) WITH (A) OPTION OR 7(C) WITH (B) OPTION	2(C) WITH (A) OPTION OR 4(C) WITH (B) OPTION	B/G	11,15,15,19	F	O		14	13.3					
										B/G	11,14,15,19	F	H		-9.5	-10					
										B/G	11,15,19	F	R		-14	-15.5					
										B/G	11,15,19	F	NO		9.7	10.3					
										B/G	11,15,18,19	F	NO		-64	-67.9					

TEST NOTES:

1. ARM NEED NOT TOUCH CORE ON OPERATE.
2. JKS 9 & 11 AND 13 & 15 SHALL MAKE WHEN REP IS REMOVED.
3. FOR USE WHEN TIMING REQUIREMENTS ARE APPLIED.
4. TEST CONT SEPARATION MIN 3 CONT FOLLOW 2-3, 4-5 & 6-7 MIN & TEST AND READU CONTS 2-3 AND 4-5 SHALL MAKE BEFORE CONT 6-7.
5. FOR USE IN OFFICES WHERE PULSE REP REQUIREMENTS ARE NOT APPLIED.
6. FOR USE IN OFFICES WHERE PULSE REP REQUIREMENTS ARE APPLIED, DO NOT APPLY PULSE REP REQUIREMENTS WHEN THIS DKT PULSES ON A LOOP BASIS INTO A CBR NO 1 OR 5 OFFICE OR A CBR TDM OFFICE.
7. TST HOLD-USE MOOD LOOP IN PULSE TST SET.
8. APPLY PULSE REQ (A1) 48-78% BK FOR BAT GRD PULSING OR 46-78% BK FOR LOOP PULSING CORRECT TST SET TO (T) JK SPRINGS 1, 2 & 3 FOR INPUT AND 3-6 FOR OUTPUT.
9. FOR USE WHERE TIMING REQUIREMENTS ARE NOT APPLIED.
10. TEST-CONTACTS 2-3 SHALL BREAK BEFORE CONT 4-6 OR 7-8 MAKE. CONT PRES SPRINGS 2-3 & 5-6 MIN 15 GRAMS.
11. APPLY CURRENT WITH THE BAT AT 48.5-50V.
12. CONTACTS 1-3 & 4-6 MAY MAKE BEFORE CONTACT 7-8 BREAKS.
13. CONT PRESS TEST-SPRINGS 2-3 & 5-6 MIN 35 GRAMS. SPRINGS 7-8 MIN 15 GRAMS. READU SPRINGS 7-8 MIN 20 GRAMS.
14. PRIOR TO ISSUE 4-B, THE HOLD VALUE WAS NOT SHOWN.
15. APPLY CURRENT FLOW REQUIREMENTS IN ORDER SHOWN. RLS KEY OF TEST SET SHALL NOT BE CLOSED WHEN APPLYING HOLD OPR & NON-OPR CURRENT.
16. TEST-CONTACTS 4-5 SHALL BREAK BEFORE 6-8 & 9-10 MAKE. CONT PRES SPRINGS 4-5 & 7-8, MIN 15 GRAMS.
17. TST HOLD-USE LEAK (A) IN PULSE TST SET.
18. IF SUFFICIENT CURRENT CANNOT BE OBTAINED, SHORT CIRCUIT RESISTANCE (C).
19. BLOCK (A) NO & (B) O; INSULATE 1(A), 2(C) & 5(C) WITH (A) OPTION OR 1(A), 4(C) & 7(C) WITH (B) OPTION.

FIG 69

(FOR 4 FIG 2)

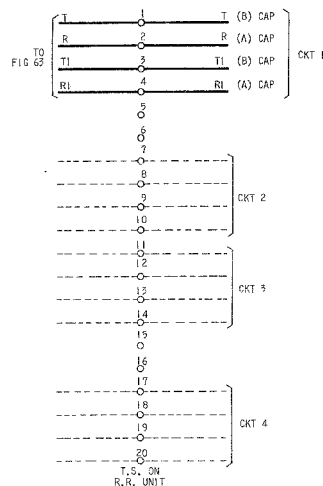
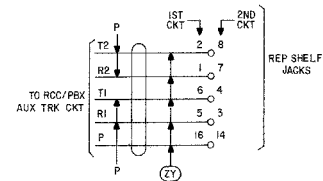


FIG 70

(FOR FIG 3)
FOR REPEATERS REQUIRING
CONNECTION TO RCC/PBX
AUX TRK CKTREP SHELF
JACKSDRAWING
ISSUEISSUE
28B

OUTGOING REPEATER CIRCUIT

SD-31779-013

BELL TELEPHONE LABORATORIES
INCORPORATEDTYPED
6S

MADE IN U.S.A.

FIG. K
(MFR. DISC.)
FOR OFFICES USING T.D.F. OR I.D.F.

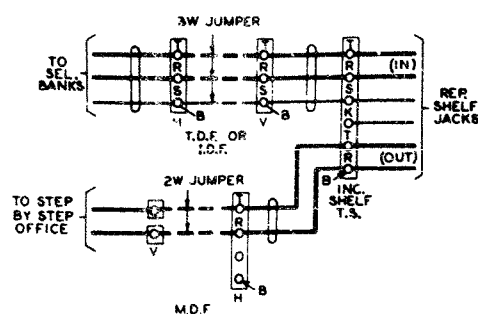


FIG. L
(MFR. DISC.)
FOR OFFICES USING T.D.F. OR I.D.F.
AND ROT. OUT. TRK. SWITCHES

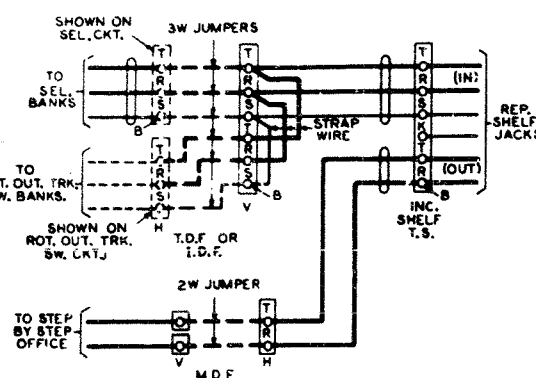


FIG. M
(MFR. DISC.)
FOR 350 A DIAL OFFICE
USING C.D.F.

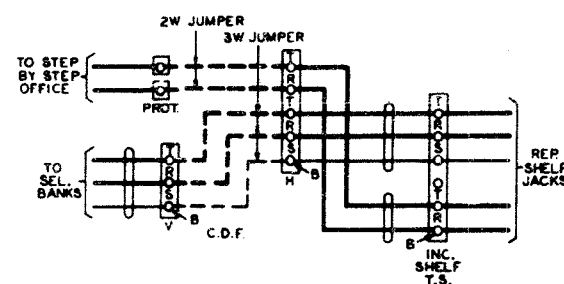
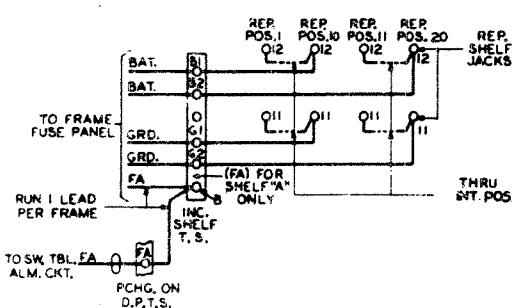


FIG. P
(MFR. DISC.)
FOR CENTRAL OFFICES



EQUIPMENT NOTES: (CONT.)

204. PRIOR TO ISSUE 9-D, THE BAT. AND GRD. LOOP LEADS IN FIGS. 57, 58, 59, 64, 65 AND 66 BETWEEN REP. POSITIONS 10 AND 13 RESPECTIVELY OF THE PRECEDING POSITION TO TERMS. 10 AND 13 RESPECTIVELY OF THE SUCCEEDING POSITION. THE ARRANGEMENT NOW SHOWN PERMITS UNIVERSAL WIRING FOR 2 PER BASE OR 1 PER BASE REPS. IN FIG. 53 THE SEL. BANKS WERE TERMINATED ON THE V.C.D.F. IN ERROR, AND FIG. 67 WAS NOT SHOWN. THE "TR" AND "TR" LEADS IN FIG. 63 WERE REVERSED, CONNECTION TO ROT. OUT. TRK. SW. WAS NOT SHOWN IN FIG. 66 AND THIS FIG. WAS RATED "SPECIAL".

205. REPEATERS (OTHER THAN CALL INDICATOR) MANUFACTURED PER ISSUE 17-D OF THIS DRAWING SHALL BE EQUIPPED WITH "28", "2C" AND "2D" APPARATUS OPTIONS IN ALL CASES AND WIRED SO THAT ANY ONE OF "W", "M", "O" OR "2A" WIRING OPTIONS MAY BE OBTAINED BY WIRING CHANGES AT THE (A), (B), (C) AND (D) RESISTANCES AND (F) CONDENSER.

FIG. R
(MFR. DISC.)
FOR 350 A DIAL OFFICES

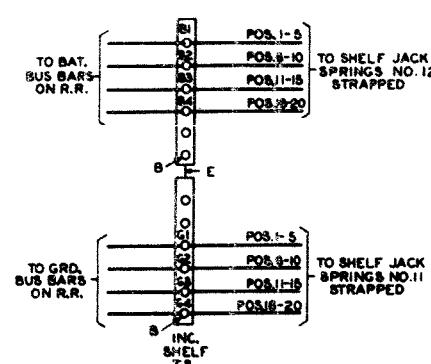


FIG. S
(MFR. DISC.)
FOR C.I. OFFICES USING T.D.F. OR
I.D.F. AND ROTARY OUT. TRK. SW.

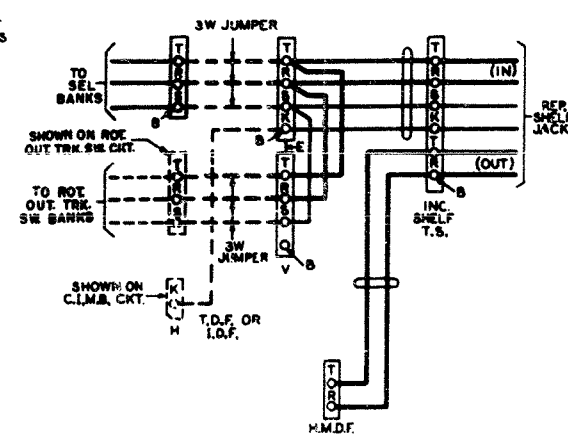


FIG. T
(MFR. DISC.)
FOR C.I. OFFICES
USING T.D.F. OR I.D.F.

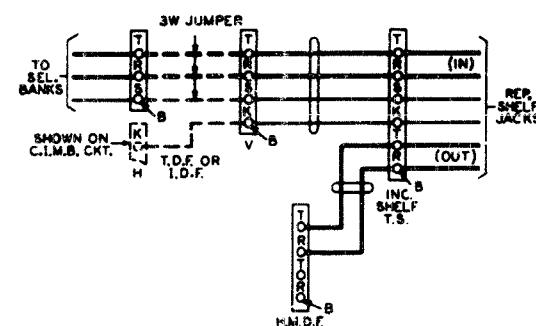


FIG. 65
(A&M ONLY)
FOR UNITS MOUNTED ON REP. FR.
20 REP. POS. PER SHELF
350A OR 355A OFFICE
2 REPS. PER PLATE
SEE NOTE 201

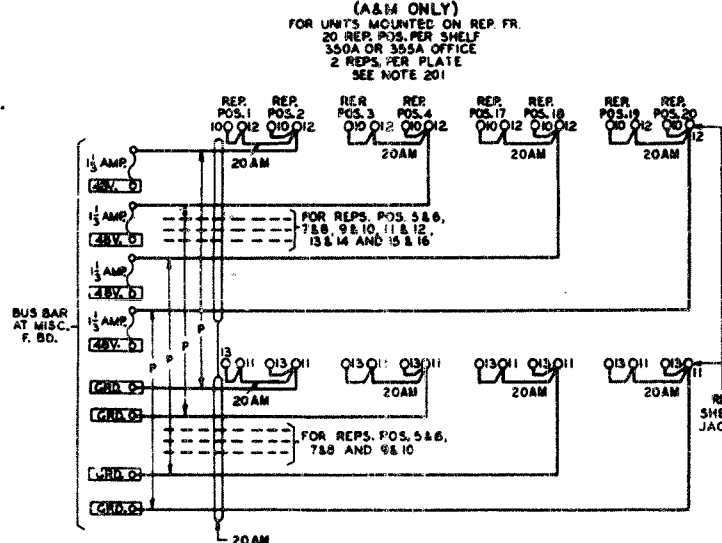


FIG. 51
FOR OFFICES USING T.D.F. OR I.D.F.

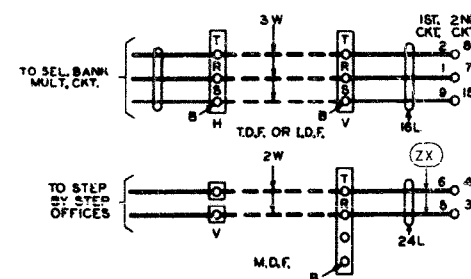


FIG. 52
FOR OFFICES USING T.D.F. OR I.D.F.
AND ROT. OUT. TRK. SWITCHES

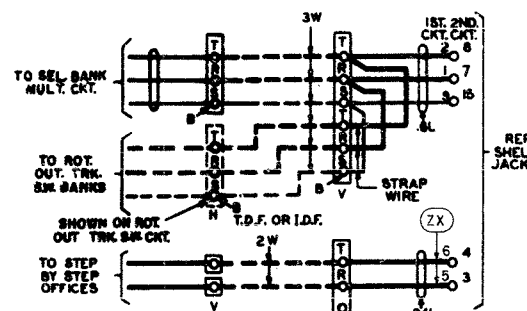


FIG. 53
FOR OFFICES
USING C.D.F. FOR INCOMING AND OUTGOING CABLES

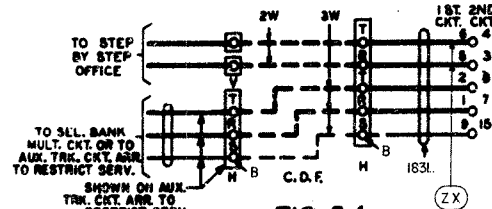


FIG. 54
FOR 350A OR 355A DIAL OFFICE
USING C.D.F. FOR OUTGOING CABLES

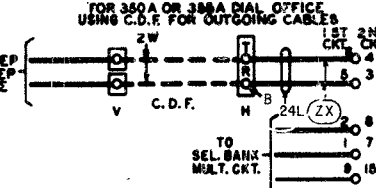


FIG. 55
(A&M ONLY)
FOR 350 A DIAL OFFICE

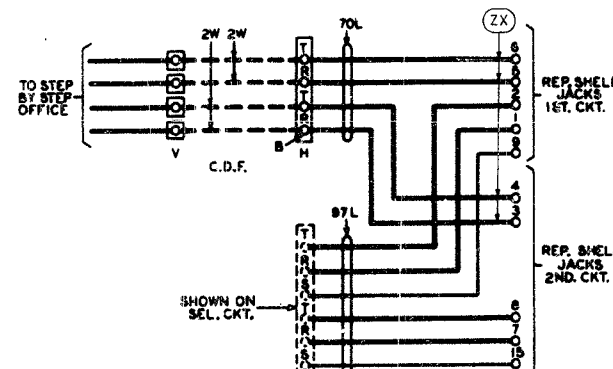


FIG. 56
FOR UNITS MOUNTED ON R.R.
2 REPEATERS PER PLATE
CENTRAL OFFICES

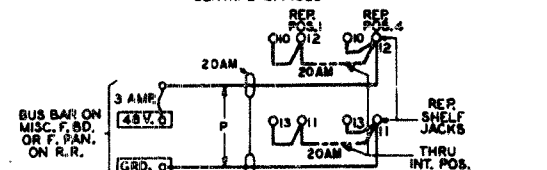


FIG. 68
FOR REPEATERS REQUIRING CONNECTION TO
MESSAGE TICKETER TRK. TEST CKT.

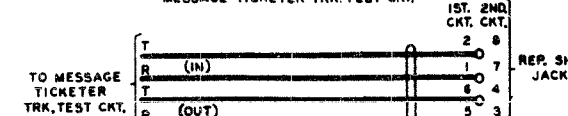


FIG. 57
FOR UNITS MOUNTED ON SW. FR.
FOR CENTRAL OFFICES
2 REPEATERS PER PLATE

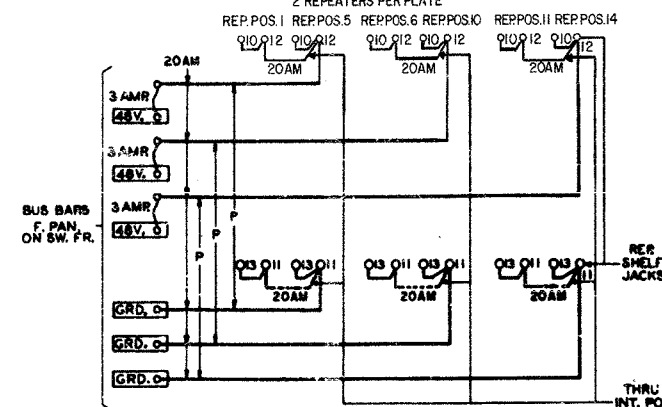


FIG. 58
FOR UNITS MOUNTED ON R.R.
350A, 355A AND 350A OFFICES

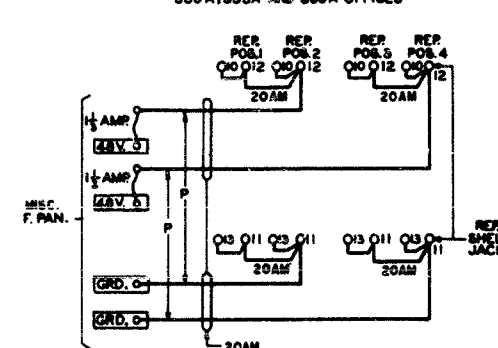


FIG. 59
FOR UNITS MOUNTED ON SW. FR. 350A OR 355A OFFICE
2 REPEATERS PER PLATE
SEE NOTE 201

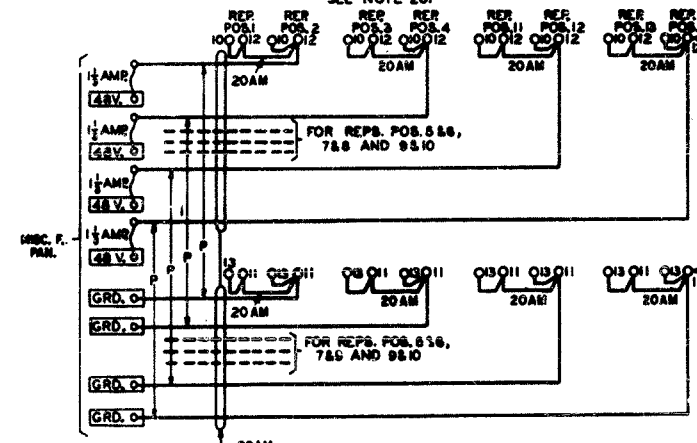


FIG. 60
FOR C.I. OFFICES USING T.D.F. OR I.D.F.

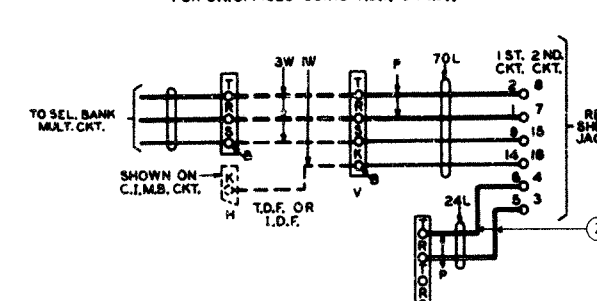


FIG. 66
FOR REPEATER CKTS. REQUIRING CONNECTION
OF SUCC. SELECTORS, ROT. OUT. TRK. SW. OR
MAKE BUSY CKT. IN SAME OFFICE

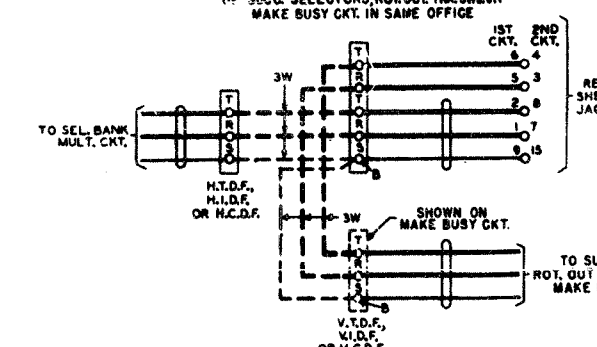


FIG. 61
FOR C.I. OFFICES USING T.D.F. OR I.D.F.
AND ROT. OUT. TRK. SW.

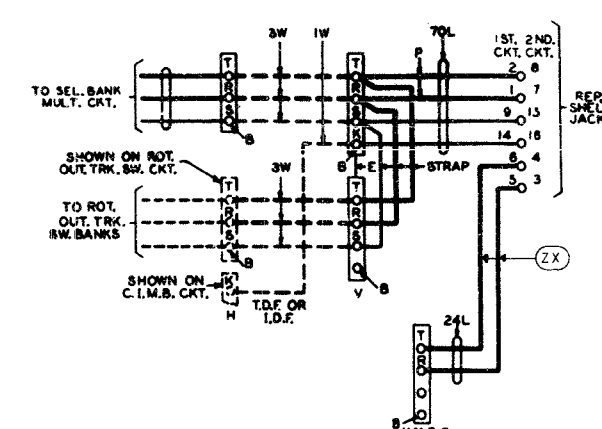


FIG. 62
FOR C.I. OFFICES
CONDUCTOR LOOP OVER 600'

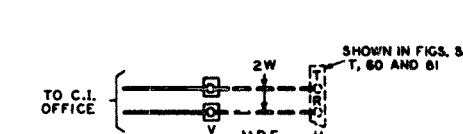


FIG. 63
FOR C.I. OFFICES
CONDUCTOR LOOP UNDER 600'

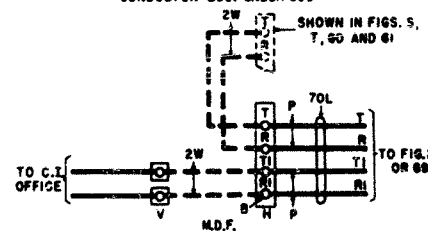


FIG. 67
FOR OFFICES USING C.D.F.
AND ROT. OUT. TRK. SWITCHES

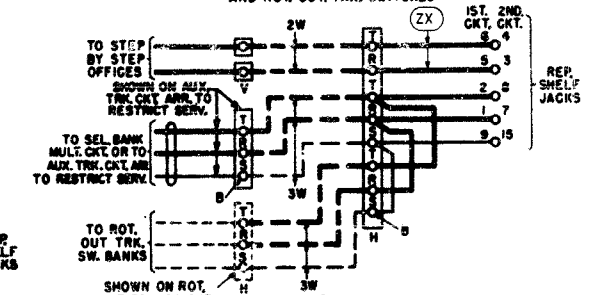
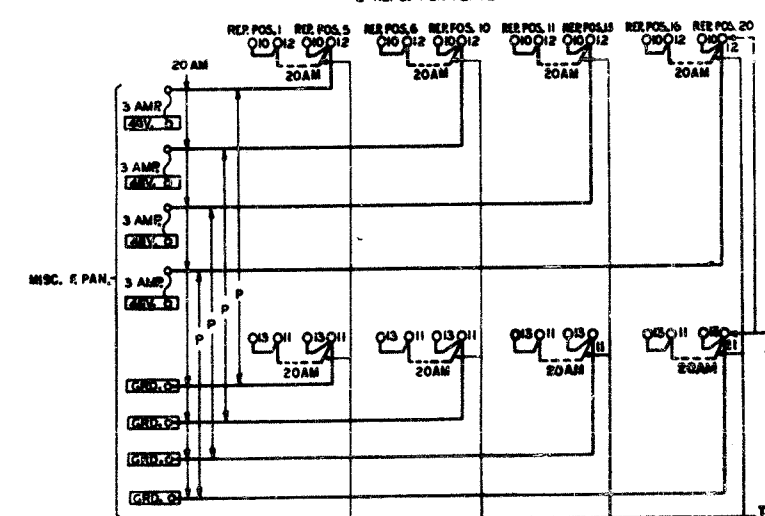


FIG. 64
(A&M ONLY)
FOR UNITS MOUNTED ON REP. FR.
20 REP. POS. PER SHELF
FOR CENTRAL OFFICES
2 REPS. PER PLATE



EQUIPMENT NOTES:
201. INTERMEDIATE POS. 5-16 WIRED SAME AS SHOWN FOR ADJACENT POS.
202. THE LEFT HAND NUMBER AT EACH PLUG TERM. IS FOR CKT. 1, AND THE RIGHT HAND NUMBER IS FOR CKT. 2
203. ON ISSUE 6-D, FIGS. 64 AND 65 WERE ADDED. POS. 15 TO 20 ARE RATED "A&M ONLY."

SHEET INDEX (INITIATED ON ISSUE 20B)

[illegible]

SUPPORTING INFORMATION

CATEGORY	NO.
EQUIPMENT DRAWINGS	J33017BY ED-30655-01 ED-31775-01 ED-31252-01 ED-31779-02
KEYSHEET DRAWINGS	
SXS - NO.360A DIAL OFF	SD-31250-01
SXS - NO.1	SD-31359-01
SXS - NO.350A & BR OFF	SD-31364-01
SXS - NO.355A	SD-31780-01
SXS - NO.35E97	SD-32325-01
MAINTENANCE BSP'S	
226-508-504	
226-527-500	
226-527-501	

DWG ISS	CD ISSUE	DWG ISS	CD ISSUE	DWG ISS	CD ISSUE
1	1	2A	2A	3D	2A APP ID
4B	2A APP 2B	5B	2A APP 3B	6D	2A APP 4D
7D	2A APP 5D	8D	2A APP 6D	9D	3D
10D	3D APP ID	11B	3D APP 2B	12D	3D APP 3D
13B	3D APP 4B	14D	3D APP 5D	15D	3D APP 6D
16AR	3D APP 7AR	17D	3D APP 8D	18D	3D APP 9D
19D	APP APP 10D				
DWG ISSUE	EE OR CD ISSUE	DATE ISSUED	DRAWN	APPROD	
20B	3D APP 11B	6-18-56	R.F. A.S.D. R.C.D.		
21D	3D APP 12D	12-10-57	R.F. M.R. R.C.D.		
22D	3D APP 13D	2-17-66	WAR M.K.D. J.T.F.	R.J.J. G.M.	
23D	4-D	8-13-69	W.G. N.C.	M.K.D. M.P.D.	
24D	5D	12-5-73	TFO PJS GK	RWH LCB SEB	
25B	5D APP 1B	7-5-74	AVG PJS GK	RWH LCB SEB	
26B	5D APP 2B	3-5-76	AK SAK GK	RWH GFC SEB	
27B	5D APP 3B	8-20-76	AK SAK AJP	RWH GFC SEB	
28B	5D APP 4B	7/15/80	DS JSD PVS	DAJ RDS	

SHEET INDEX NOTES

1. WHEN CHANGES ARE MADE IN THIS DRAWING, THOSE SHEETS AFFECTED WILL BE REISSUED.
2. THIS SHEET INDEX WILL BE REISSUED AND BROUGHT UP TO DATE EACH TIME ANY SHEET OF THIS 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.

REPLACING SD-31693-01 EXCEPT FOR ADDITIONS WHERE ALL TRUNKS BUSY REGISTRATION IS REQ. REPLACING SD-30214-01 EXCEPT FOR ADDITIONS FOR CALL INDICATOR OPERATION WITH PLUNG ER TYPE OUT TRUNK SW OR ALL TRUNKS BUSY REGISTRATION.

ISSUE
28B

STEP BY STEP SYSTEMS
NO. 1,350A, 355A, 360A OR 35-E-97
OUTGOING REPEATER CIRCUIT
BATTERY AND GROUND OR LOOP PULSING
LOOP SUPERVISION
ARRANGED FOR 2 REPEATERS PER BASE
AND FOR TEMPORARY USE TO
CALL INDICATOR OFFICE

AT&TCO
STANDARD
A B M ONLY FOR 350A,
360A & 35-F-97

SD-31779-01-A
5 SHEETS

NOTICE
NOT FOR USE OR
DISCLOSURE OUTSIDE
THE BELL SYSTEM
EXCEPT UNDER
WRITTEN AGREEMENT

BELL TELEPHONE LABORATORIES
INCORPORATED

(OG REP

OWN SIZE
75

PRINTED IN U.S.A.