

SHEET INDEX (INITIATED ON ISSUE 26D)

Table with columns: FIG., CONTENTS, SHEET NO., ISSUE NO. (29-54). Rows include SHEET INDEX SUPPORTING INFORMATION, SHEET INDEX, CIRCUIT NOTES 101 AND 102, CIRCUIT NOTES 102, CIRCUIT NOTES 103, CIRCUIT NOTES 104 TO END EQUIPMENT NOTES 201 TO END, INFORMATION NOTES 301 TO END OPTION INDEX ELECTROLYTIC CAPACITOR TEST REQUIREMENTS TABLE, TABLES A-F, TABLES G, H, J, AND K, TABLE M, and various fuse and alarm circuit descriptions.

Table with columns: FIG., CONTENTS, SHEET NO., ISSUE NO. (29-54). Rows include SPARE JACK CKT FR LINE TELEPHONE JACK CKT 52S OR 52A HEAD TELEPHONE SET, MASTER TEST FR OR OFFICE TEST FR REMOTE CONTROL JACK CKT, INCOMING TRUNK TEST JACK CKT OR LINE CKT FOR AUTOMATIC CALL DISTRIBUTION TEST JACK CKT, MAKE BUSY LAMP CKT FOR TRUNK CKT OR CAMA POSITION LINK CKT OR BOTH OR CONFERENCE CONTROL CKT FOR OFFICE ARRANGED FOR PHASE II OR III CENTREX SERVICE, OR RANGE EXTENDER CKT OR BOTH, OR TEST ACCESS CKT FOR AUTOMATIC CALL DISTRIBUTION PERMANENT SIGNAL ALARM LAMP FOR INCOMING TRUNKS FROM STEP-BY-STEP OFFICE OR LINE CKT FOR AUTOMATIC CALL DISTRIBUTION, 2-WAY LINE CKT FOR WIDEBAND SERVICE, AND 2-WAY OFFICE NETWORK ACCESS LINE CKT, TRUNK TEST JACKS FOR USE WITH 2W AND 4W INTERTOLL (INCOMING AND 2-WAY) TRUNKS, 4W 2-WAY TO PBX, ZERO OPERATOR, OPERATOR TANDEM, LISTED DIRECTORY NO. AND INTERCEPT, AND CONFERENCE TRUNKS, AND PREEMPTIBLE AUXILIARY LINE CIRCUITS, AND LINE CIRCUITS FOR AUTOMATIC CALL DISTRIBUTION TALKING BAT. FILTER CKT, JACK, KEY, AND LAMP CKT FOR MESSAGE REGISTER TEST TRUNK, BUZZER CKT.

- 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.

SUPPORTING INFORMATION table with columns: CATEGORY, NO. Includes ALL CROSSBAR NO. 5 FRAMES ARE ASSOCIATED WITH THIS CIRCUIT, REFER TO SPEC J29259 MAINTENANCE BSP, 218-115-503, 218-139-508, 218-232-501, 218-252-501, 218-268-501, 218-279-501, 218-282-501, 218-580-501, 218-582-501, 218-609-501, 218-744-501, 218-746-501, 218-752-501, 218-773-501.

CLASS "A" INFORMATION
ISSUE 36A INCLUDES LDI 36B
ISSUE 47AC INCLUDES LDI 45H, 45F, 45M

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

Vertical table on the right side of the page with columns: DWG ISS, CD ISSUE, DATE ISSUED, DWN APP'D, and various alphanumeric codes and dates.

REPLACING SD-25516-01, 25743-01, 25747-01, 25748-01, 25749-01, 25750-01, 25751-01, 25752-01, 25755-01, 25774-01, 25775-01, 25776-01, 25777-01, 25778-01, 25779-01, 25781-01, 25782-01, 25783-01, 25785-01, 25786-01, 25788-01, 25789-01, 25797-01, 25798-01, 25799-01, 25801-01, 25825-01, 25841-01, 25873-01, AND SD-95525-01 FOR CROSSBAR NO. 5.
ISSUE 54A
CROSSBAR SYSTEMS NO. 5 MISCELLANEOUS CIRCUIT FOR ALL FRAMES
SD-25574-01-1 50 SHEETS
BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD - 25574-01-1

SHEET INDEX

FIG.	CONTENTS	SHEET NO.	ISSUE NO.																											
			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		
91	-48 TEST BAT. CKT FOR PLANT REG CABINET																													
92	MICRO SWITCH FOR PAPER TAKE-UP ALARM IN AMA PERFORATOR CABINET																													
93	-48 FUSE CKT FOR SELECTED TRUNK GROUP TRAFFIC SAMPLE FR. AND SUPPLEMENTARY TRUNK GROUP TRAFFIC SAMPLE FR	27	29	30	30	32	32	32	32	32	32	32	32	32	32	32	32	32	32	47	47	47	47	47	47	47	47	47		
84	-48 AND +130 FUSE ALARM CKT FOR SELECTED TRUNK GROUP TRAFFIC SAMPLE FR. AND SUPPLEMENTARY TRUNK GROUP TRAFFIC SAMPLE FR																													
85	TROUBLE RECORDER TIMING LAMP FOR ROUTE TRANSLATOR FR																													
86	FUSE ALARM AND FUSE GUARD LAMP CKT FOR ROUTE DISTRIBUTOR FR AND FOR SUPPLEMENTARY ROUTE DISTRIBUTOR FR																													
87	FUSE ALARM CKT FOR ROUTE DISTRIBUTOR FR AND FOR SUPPLEMENTARY ROUTE DISTRIBUTOR FR																													
88	TRANSLATOR ADMINISTRATION AND TEST REMOTE CONTROL JACK CKT																													
89	GROUND FEEDER CKT																													
90	-48 FUSE CKT FOR TRUNK CONTROL FR (AMA-MTR) AND MASTER TIMING FR (AMA-MTR)																													
91	-48 FUSE ALARM CKT FOR TRUNK CONTROL FR (AMA-MTR) AND MASTER TIMING FR (AMA-MTR)																													
92	FUSE GUARD LAMP CKT FOR MASTER TIMING FR (AMA-MTR)	28A*		30	30	32	32	32	32	32	37	37	37	40	41	41	41	45	45	47	47	47	47	47	52	52	52	52		
93	ALARM RELEASE KEY FOR MARKER WIDEBAND FR																													
94	-48 FUSE CKT FOR IDDD PRETRANSLATOR FR CONNECTOR FOR USE WITH IA PULSING ANALYZER																													
95	MASTER TEST FR OR OFFICE TEST FR REMOTE CONTROL JACK CKT FOR MARKER AND TRANSVERTER FRAMES	28B												41	42	43	43	43	43	43	43	43	43	43	43	43	43	43		
96	CONTROL JACK CKT FOR MARKER AND TRANSVERTER FRAMES																													
97	1014A HANDSET																													
A	-48 FR TEST BAT. CKT																													
98	PAPER JAM DETECTOR																													
99	PAPER JAM ALARM CIRCUIT																													
100	PAPER JAM DETECTOR RESET CIRCUIT	28C																44	45	46	46	46	49	49	49	49	49	54		
403	-48 FUSE CIRCUIT FOR ACD POSITION CIRCUIT FRAMES																													
405	-48V FUSE ALARM CIRCUIT FOR TRUNK CONTROL FR(LAMA-MTR) CROSS CONNECT FIG 20B																													
406	-48V FR TEST BAT. CKT (WIRE PER FIG. 210)																													
407	-48V TST JK CKT (WIRE PER FIG. 210)																													
408	GRD TST JK CKT (WIRE PER FIG. 210)																													
SHEET CANCELLED ON DWG ISSUE 49A			28D																											
CIRCUIT REQUIREMENTS TABLE			29	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28		
101	(FOR FIG. 2 AND 8) REPLACED BY FIG. 15B PRETRANSLATOR FR																													
102	(FOR FIG. 4) PERFORATOR CABINET																													
103	(FOR FIG. 4, 5, 6, 7, AND 8)																													
104	(FOR FIG. 7) REPLACED BY FIG. 103 MASTER TEST FR																													
105	(FOR FIG. 9)																													
106	(FOR FIG. 13) COMBINED OR COMPLETING MARKER FR EXCEPT CAMA FR																													
107	(FOR FIG. 13) MASTER TIMING FR, MANUAL OUTGOING TRUNK TEST FR, LAMA & MAMA TRANSVERTER FR, FOREIGN AREA TRANSLATOR, TRANSLATOR CONNECTOR FR, ORIGINATING REGISTER LINE MEMORY FR, LINE LINK MARKER CONNECTOR, MFR DISC, TRUNK LINK CONNECTOR CONTROL FR, NO. GR CONNECTOR CONTROL FR, AUXILIARY TRUNK LINK CONNECTOR FR (WS) SUPL LINE LINK MARKER CONNECTOR FR, MFR DISC, 4W TRUNK PREEMPTION GR FR, 4W LINE PRE-EMPTION GROUPING FR, 4W TRUNK GR CONNECTOR FR FOR EIGHT MARKERS, 4W TRUNK GR CONNECTOR FR FOR FOUR MARKERS, ROUTE DISTRIBUTOR FR, SUPL ROUTE DISTRIBUTOR FR, ROUTE TRANSLATOR FR	PART OF 30	29	30	30	32	32	32	32	32	37	37	39	40	41	42	42	42	42	46	46	46	48	48	48	48	48	54		

*SHEETS WITH SUFFIX "A" WERE FORMERLY WITHOUT A SUFFIX LETTER

FIG.	CONTENTS	SHEET NO.	ISSUE NO.																											
			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		
108	(FOR FIG. 13) ORIGINATING REGISTER MARKER CONNECTOR FR OUTGOING SENDER CONNECTOR FR																													
109	(FOR FIG. 13) NO. GR FR																													
110	(FOR FIG. 13) TRUNK LINK FR																													
111	(FOR FIG. 13) EXTENSION TRUNK LINK FR OR AUXILIARY TWO TRUNK LINK FR	PART OF 30	29	30	30	32	32	32	32	32	37	37	39	40	41	42	42	42	42	46	46	48	48	48	48	48	48	54		
112	(SEE FIG. 165)																													
113	(FOR FIG. 15)																													
114	(FOR FIG. 16)																													
115	(FOR FIG. 16) PERFORATOR CAB.																													
116	(FOR FIG. 17)																													
117	(FOR FIG. 17) PERFORATOR CAB.																													
118	(FOR FIG. 19) REPLACED BY FIG. 151																													
119	(FOR FIG. 20) RELAY RACK																													
120	(FOR FIG. 21) RELAY RACK OR 4W CONFERENCE CONTROL FR, OR CAMA POSITION LINK FR, OR RANGE EXTENDER FR, OR TEST ACCESS FR FOR AUTOMATIC CALL DISTRIBUTION	31	29	29	29	32	32	32	32	36	36	36	36	36	41	42	42	42	45	46	46	48	48	48	48	52	52	54		
121	(FOR FIG. 22) RELAY RACK																													
122	(FOR FIG. 23 & 70) RELAY RACK																													
123	(FOR FIG. 29) MSG REG FR, MSG TIMING FR, OR MSG REG UNIT ON RELAY RACK																													
124	(FOR FIG. 32 & 36) REPLACED BY FIG. 154																													
125	(FOR FIG. 38) MASTER TIMING FR																													
126	(FOR FIG. 40) LINE LINK FR																													
127	(FOR FIG. 41) LINE LINK FR																													
128	(FOR FIG. 43) RECORDER FR																													
129	(FOR FIG. 43) PERFORATOR CAB.																													
130	(FOR FIG. 44) PERFORATOR CAB.																													
131	(FOR FIG. 45) PERFORATOR CAB.																													
132	(FOR FIG. 47) INCOMING REG FR TANDEM INCOMING RP REG FR MASTER TEST FR CONTROL BAYS																													
133	(FOR FIG. 48) RECORDER FR																													
134	(FOR FIG. 50) RELAY RACK																													
135	(FOR FIG. 51) MASTER TEST FR OR OFF. TEST FR																													
136	(FOR FIG. 52) MASTER TEST FR OR OFF. TEST FR	32	29	30	30	30	33	33	33	33	33	33	33	33	41	41	41	44	44	44	44	44	44	44	44	44	44	44		
137	(FOR FIG. 53) PERFORATOR CAB.																													
138	(FOR FIG. 54 & 75) MSG RER FR, MSG TIMING FR, OR MSG REG UNIT (100 CAP.) ON RELAY RACK																													
139	(FOR FIG. 55 & 56)																													
140	REPLACED BY FIG. 155 ALARM SENDING LK LEAD MULTIPLE AND OPTION STRAP																													
141	FR TS GRD																													
142	MN LEAD MULTIPLE																													

DRAWING
ISSUE
290 LP
300 LP
31A LP
32D
33A
34D
35A
36D
37D
38A
39D
40D

ISSUE 54A

MISCELLANEOUS CIRCUIT 2 SD-25574-01-3A

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25574-01-3A

CIRCUIT NOTES:
101.

DESIG	FUSE AMP	POTENTIAL	ONE PER
A	1-1/3	-48 SIG	FIG. 44
A*	1-1/3	-48 SIG	FIG. 38,39,74
ABS	1-1/3	-48 SIG	FIRST ACD OPR POS CONT FR IN A CH OPR GR
AL	1-1/3	-48 SIG	CENTREX POSITION LX FR
B	1-1/3	-48 SIG	FIG. 74,75
C	1-1/3	-48 OR -24 TANK	FIG. 24 OR FIG. 78
CAMA*	1-1/3	-48 SIG	ALL CAMA TRANSVERTERS, BILLING INDEXER CIRCUITS, LINE OBSERVING NO. MATCHING CIRCUITS IN A MKR GR
CBA	1-1/3	-48 SIG	FIG. 12
CC*	1-1/3	-48 SIG	1 PER IO FIG. 64
D	1-1/3	-48 SIG	FIRST ACD OPR POS CONT FR IN A CH OPR GR
FA	1-1/3	-48 SIG	FIG. 79
FAC*	1-1/3	-48 SIG	ALL FOREIGN AREA TRNSL CONN FRAMES
FAT*	1-1/3	-48 SIG	ALL FOREIGN AREA TRNSL CONN FRAMES
MKR-CAMA*	1-1/3	-48 SIG	ALL COMPLETING MARKERS IN A MKR GR
MRA*	1-1/3	-48 SIG	FIG. 54
PB	1-1/3	-48 SIG	PRT FR, IDDD PRT FR OR INC REG PRT FR
PJ	1-1/3	-48 SIG	6 FIGURES 99
PJT	1-1/3	-48 SIG	FIG. 98
RL	1-1/3	-48 SIG	FIG. 48
TAL	1-1/3	-48 SIG	FOREIGN AREA TRNSL FR
TBS	1-1/3	-48 SIG OR TALK	REL RK FR
TBS	1-1/3	-48 SIG	OGT SDR CONN FR AND ASSOC AUX SUPL OGT SDR CONN FR
TBS	1-1/3	-48 SIG	FOUR PERF CABINETS
TBS	1-1/3	-48 SIG	OR REG MKR CONN FR AND ASSOC AUX REG MKR CONN FR
TBS	1-1/3	-48 SIG	FR FOR TBS FOR ALL OF ER FRAMES
TBS*	1-1/3	-48 SIG	EACH MKR, MASTER TIMING, TRANSVERTER, MAN, OGT TEST, FOREIGN AREA TRNSL, FOREIGN AREA TRNSL CONN FR, ORIG- INATING REG LINE MEMORY FR, BASIC PBX ALL ALLR TRK L CONN CONT FR, NO. GR CONN CONT FR, AUX TRK LK CONN FR
TBS**	1-1/3	-48 SIG	EACH PRETRANSLATOR LATOR FR
TBS***	1-1/3	-48 SIG	NON-WIRE SPG TYPE NO. GR FR
TBS****	1-1/3	-48 SIG	FIVE FRAMES, WIRE SPG TYPE NO. GR FR
TBS**	1-1/3	-48 SIG	BASIC AND SUPL COIN ZONE CONCENTRATOR FRAMES
TBS*	1-1/3	-24 SIG OR TALK	REL RK FR
TBS*	1/2	+130 SIG	ATISLE
TBS*	1/2	-130 SIG	AUTO. PROG TRK TEST FR, SUPL AUTO. PROG TRK TEST FR, AUTO. TRMSN TEST AND CONT FR

BATTERY SYMBOL	VOLTAGE RANGE
-24	22-26V
-48	45-50V
-130	125-135V
+130	125-135V

- * INDICATES FUSES THAT SHALL BE LOCATED ON THE POWER, RINGING, AND TONE DISTRIBUTION FR
- ** INDICATES FUSES THAT SHALL BE LOCATED ON FR BUS BAR SUPPLYING PRETRANSLATOR CONN CKT
- *** INDICATES FUSES THAT SHALL BE LOCATED ON THE ASSOC. NO. GR CONN FR
- **** THE TBS FUSE PROVIDED ON THE NO. GR CONN FR IS ALSO USED FOR FIVE ASSOC. NO. GR FRAMES ON SPLIT BASIC NO. GR CONN FRAMES. A TBS1 FUSE IS ALSO REQD FOR THE SECOND GR OF FIVE ASSOC. NO. GR FRAMES.
- INDICATES FUSE LOCATED IN PERF CABINET NEAREST THE CALL COUNT PROCESS CONT REG CABINET
- INDICATES THAT FUSE SHALL BE LOCATED ON BASIC COIN ZONE CONCENTRATOR FR

CIRCUIT NOTES:
102.

FRAME TITLE	CKT NOTE 102 LOC
FOR 1-BAY BASIC LINE LINK FR	11A/F7
FOR 1-BAY CALL WAITING LINK FR	11B/A5
FOR 2-BAY BASIC LINE LINK FR	11A/E7
FOR 2-BAY CALL WAITING LINK FR	11B/B5
FOR 2ND SUPL LINE LK CONN FR	11B/A8
FOR 2ND SUPL MASTER TEST CONN FR (MODIFIED OFFICE)	11B/B8
FOR 2ND SUPL MASTER TEST CONN FR (NEW OFFICE)	11B/C8
FOR 2ND SUPL OUTGOING SDR CONN FR	11B/E8
FOR 2ND SUPL TRK LK CONN FR	11B/F8
FOR 4W CONFERENCE CONTROLLER FR	5A3
FOR 4W INCOMING REG FR	5C3
FOR 4W LINE LK FR	5D3
FOR 4W LINE PREEMPTION GROUPING FR	5E3
FOR 4W ORIGINATING REG FR	5F3
FOR 4W OUTGOING DIAL PULSING SDR FR	5A5
FOR 4W OUTGOING SDR FR	5C5
FOR 4W TRK GR CONN FR FOR EIGHT MKR OR 4W TRK GR CONN FR FOR FOUR MKR	5D5
FOR 4W TRK LK, SUPL TRK LK, AND EXTENSION TRK LK FRAMES	5E5
FOR 4W TRK PREEMPTION GROUPING FR	5F5
FOR 7"-0" REMOTE ACD RELAY RACK FRAME	5G5
FOR 190-LINE BASIC LINE LINK FR	11B/D5
FOR 200-LINE SUPL TRANSFER LINE LK FR	5A8
FOR 300-LINE OR 600-LINE SUPL LINE LINK FR	11B/E5
FOR ALARM FR	5B8
FOR AMA TRNSL FR	5C8
FOR ACD GATING FR	11C/A5
FOR ACD TEST FR	11C/E2
FOR ACD OPERATOR POSITION CONTROL FRAME AT REMOTE LOCATION	11C/G4
FOR AUTO. PROG TRK TEST FR OR SUPL AUTO. PROG TRK TEST FR	5D7
FOR AUTO. RANGE EXTENSION TEST FR	11A/G5
FOR AIS SDR FR	5F7
FOR AUX LINE LK FR	6A1
FOR AUX MASTER TEST FR	
FOR AUX ORIGINATING REG-INCOMING REG MKR CONN FR	6D1
FOR AUX ROUTE PROG FR	11A/C8
FOR AUX TWO TRUNK LINK FR	11B/F0
FOR AUX 2ND SUPL LINE LINK CONN FR	5G7
FOR AUX 2ND SUPL TRK LK CONN FR	6A1
FOR BASIC 100-LINE TRANSFER LINE LK FR	6E1
FOR BASIC 190-LINE, LINE LK FR FOR AUTO. CALL DISTRIBUTION	11A/C1
FOR BASIC 290 LINE, LINE LK FR FOR ACD OR SPLIT 100 LINE SUPL LINE LK FR FOR ACD	11C/D7
FOR BASIC AND SUPL PBX ALLR FR	6F1
FOR BASIC COIN ZONE CONCENTRATOR FR	6G1
FOR BIT-STREAM JUNCTION LINK OR SUPL JUNCTION LINK FR	11C/G0
FOR BIT-STREAM LINE LINK FR	11C/F0
FOR BIT-STREAM TRUNK LINK FR	11C/A3
FOR CALL IDENTITY INDEXER FR (AMA-MTR)	10G3
FOR CAMA AUTO. PROG TRK TEST FR	6A3
FOR CAMA BILLING INDEXER FR	6B3
FOR CAMA LINE OBSERVING NO. MATCHING FR	6D3
FOR CAMA POSITION LK FR	6E3
FOR CAMA TRANSVERTER FR OR ANI TRANSVERTER FR OR LAMA-MTR TRANSVERTER FR	6G3
FOR CENTREX MULTI-CONSOLE CONN/TRUNK FR	10G8

CIRCUIT NOTES:
102.

FRAME TITLE	CKT NOTE 102 LOC
FOR CENTREX POSITION LK FR	6B5
FOR COIN SUPERVISORY LK FR	6C5
FOR COMPLETING MKR AUX LINE LK PULSING FR	6D5
FOR COMPLETING MKR LINE LK PULSING FR	6E5
FOR DIAL TONE MKR FR (WS)	6F5
FOR DIGIT REGISTER FOR ACD	11C/A8
FOR DISTRIBUTOR AND SCANNER ETS FR	11A/H2
FOR ETS-PDI FR	11C/H3
FOR FOREIGN AREA TRNSL CONN FR	6A8
FOR FOREIGN AREA TRNSL CONN FR (EXPANDED MKR GRP)	11B/F5
FOR FOREIGN AREA TRNSL FR	6C8
FOR FR CONN REL FR FOR AUTO. CALL DISTRIBUTION	11A/D3
FOR INCOMING OR TANDEM INCOMING REVERTIVE PULSING REG FR	6E8
FOR IDDD PRETRANSLATOR FR	11B/G8
FOR INCOMING MULTIFREQUENCY REGISTER CKT	11C/C3
FOR INCOMING REG FREQUENCY SHIFT PULSING FR	7A1
FOR INCOMING REG LK FR	7C1
FOR INCOMING REG MKR CONN FR	7D1
FOR INCOMING REG PRETRANSLATOR FR	11C/A1
FOR LINE CLASS OF SERVICE FR	11B/H0
FOR LINE INSULATION TEST FR	7F1
FOR LINE LK AND NO. GR CONN CONT FR	11B/G5
FOR LINE LK CONN FR OR SUPL LINE LK CONN FR	7G1
FOR LINE LK CONN TRK LK CONN FR OR SUPL LINE LK CONN TRUNK LK CONN FR	7A3
FOR LINE LK CONN - TRK LK CONN - NO. GR CONN - OUTGOING SDR CONN FR	7C3
FOR LINE LK FR	7D3
FOR LINE LK MKR CONN FR OR SUPL LINE LK MKR CONN FR	7G3
FOR LINE LK MKR CONN - ORIGINATING REG MKR CONN - INCOMING REG MKR CONN FR OR SUPL ORIGINATING REG MKR CONN - INCOMING REG MKR CONN FR	7A5
FOR LINE LK MKR-TRK LK CONN FR FOR AUTO. CALL DISTRIBUTION	11A/A3
FOR MAN. OUTGOING TRK TEST FR	7C5
FOR MKR 4W FR	7D5
FOR MKR 4W PREEMPTION FR	7E5
FOR MKR FR	7A8,7F5
FOR MKR FR FOR AUTO. CALL DISTRIBUTION	11A/C3
FOR MKR-ROUTE PROGRAM FR	7G8
FOR MKR-WIDEBAND FR	11B/A3
FOR MASTER TEST CONN FR FOR AUTO. CALL DISTRIBUTION	11A/G1
FOR MASTER TEST CONN FR, SUPL MASTER TEST CONN FR, AUX MASTER TEST CONN FR, AND MASTER TEST CONN FR FOR DIAL TONE MARKERS	11B/E1

CIRCUIT NOTES:
102.

FRAME TITLE	CKT NOTE 102 LOC
FOR MASTER TEST CONN FR (WS) AND SUPL MASTER TEST CONN FR (WS)	8A1
FOR MASTER TEST FR	8C1
FOR MASTER TEST FR JACK BAY FOR AUTO. CALL DISTRIBUTION	11A/G3
FOR MASTER TIMING FR	8A3
FOR MASTER TIMING FR (AMA-MTR)	10G5
FOR MESSAGE REG FR OR UNIT FOR REL RK MOUNTING	8C3
FOR MESSAGE TIMING FR	8F3
FOR MF CURRENT SUPPLY FR	8A5
FOR MF RECEIVER CONT CONN FR (PROVISIONAL)	8B5
FOR MF RECEIVER FR (MFR DISC) OR CAMA MF RECEIVER FR	8D5
FOR MULTIFREQUENCY PULSING RECEIVER FR	11C/D3
FOR NO. GR CONN CONT FR	8E5
FOR NO. GR CONN FR	8F5
FOR NO. GR CONN OUTGOING SDR CONN FR OR SUPL NO. GR CONN OUTGOING SDR CONN FR	3G5
FOR NO. GR FR	9A8
FOR NO. GR REL RK FR	8G7
FOR OFFICE INTERRUPTER FR	8B8
FOR OFFICE TEST FR	8D8
FOR ORIGINATING REG AND INCOMING REG MKR CONN FR	11B/D8
FOR ORIGINATING REG FR	8E8
FOR ORIGINATING REG LINE MEMORY FR	9A1
FOR ORIGINATING REG MKR CONN FR OR AUX REG MKR CONN FR	9B1
FOR ORIGINATING REG "TOUCH-TONE" REC FR	11C/C1
FOR ORIGINATING REG "TOUCH-TONE" REC AND CONT FR (MFR DISC)	11C/C1
FOR OUTGOING SDR CONN FR OR AUX, SUPL AU, OR SUPL OUTGOING SDR CONN FR	9D1
FOR OUTGOING SDR FR, INTERMARKER GR SDR FR OR CAMA SDR FR	9G1, 9A3
FOR OUTGOING SDR FREQUENCY SHIFT PULSING FR	9C3
FOR OUTGOING SDR LINE LK PULSING FR	9E3
FOR OUTGOING SDR LK FR	9G3
FOR OUTGOING SDR LK - LINE LK PULSING FR	9A5
FOR PEG COUNT AUX FR	9B5
FOR PERF CABINET	9D5
FOR PLANT REGISTER CABINET	11B/D1

288	JRR
290	LP
300	LP
320	
340	
360	
370	
390	
400	

ISSUE
54A

MISCELLANEOUS CIRCUIT

SD-25574 -01-4

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CIRCUIT NOTES: (CONT)

102. (CONT)	FRAME TITLE	CKT NOTE 102 LOC
	FOR POWER RINGING, AND TONE DISTRIBUTION FR	9F5
	FOR PPS SDR FR (MFR DISC)	9A8
	FOR TRANSLATOR FR	9C8
	FOR RANGE EXTENDER FR	9D8
	FOR RECORDER FR	9F8
	FOR REG PRIORITY LK FR	10A1
	FOR REG FR	10B1
	FOR REG FR FOR MOUNTING ACID LINE CONTROL UNITS	11C/B4
	FOR REMOTE OFFICE TEST FR	11A/A6
	FOR REMOTE OFFICE TEST LINE REG FR	11C/E4
	FOR REMOTE OFFICE TEST LINE TRK MAKE BU FR	11C/D4
	FOR REMOTE OFFICE TEST LINE TRK CONT FR	11C/D4
	FOR REMOTE DISTRIBUTOR FR	11A/C5
	FOR REMOTE TRANSLATOR FR	11A/F5
	FOR SINGLE BAY RELAY RACK FR FOR MOUNTING	11C/H5
	BILLING DATA TRANSMITTER CKTS	
	FOR SPLIT 50-SUPL LINE LK FR FOR AUTO. CALL DISTRIBUTION	11A/D1
	FOR SPLIT 100-LINE SUPL TRANSFER LINE LK FR	10G1
	FOR STUCK SENDER TRUNK IDENTIFIER FR	11C/B8
	FOR SUPPLEMENTARY ACID LINE LK MKR - TRK LINK CONNECTOR FR	11C/C4
	FOR SUPPL 200 LINE LINK FR	11A/E7
	FOR SUPPL CALL WAITING LINK FR	11B/B3
	FOR SUPPL COIN ZONE CONCENTRATOR FR	11C/D1
	FOR SUPPL DIAL TONE MKR FR OR MKR (FCR) FR	10A3
	FOR SUPPL LINE LINK MKR CONN FR	10B3
	FOR SUPPL RECORDER FR	10C3
	FOR SUPPL ROUTE DISTRIBUTOR FR	11A/D5
	FOR TEST ACCESS FR FOR AUTO. CALL DISTRIBUTION	11A/F3
	FOR TRAFFIC REG FR	10D3
	FOR TRANSFER LINE IDENTIFIER FR	10E3
	FOR TRANSFER LINE LK CONN - TRANSFER TRK LK CONN - TRANSFER LINE LK MKR CONN FR	10F3
	FOR TRANSFER REG FR	10A5
	FOR TRANSFER REG LK FR	10C5
	FOR TRANSFER REG MKR CONN FR	10D5
	FOR TRANSFER SUPL LINE IDENTIFIER FR	10E3
	FOR TRANSFER TRK LK FR	10E5
	FOR TRANSLATOR ADMINISTRATION AND TEST FR	11A/A5
	FOR TRM SN AUTO. PROG TRK TEST FR	10F5
	FOR TRANSVERTER CONN FR, CAMA TRANSVERTER CONN FR, OR ANI TRANSVERTER CONN FR	10A8
	FOR TRNSVERTER FR	10C8
	FOR TRK CONT FR (CAMA-MTR)	11A/C8
	FOR TRK CONTROL CALL IDENTITY INDEXER SUP FR (CAMA-MTR)	11C/G0
	FOR TRK GROUP TRAFFIC SAMPLE FR OR SUPL TRK GROUP TRAFFIC SAMPLE FR	11A/A1
	FOR TRK LK FR	11B/F0
	FOR TRK LK AND EXTENSION TRK LK FRAMES	10E8
	FOR TRK LK CONN CONT FR OR AUX TRK LK CONN FR	10F8
	FOR TRK LK CONN FR OR SUP TRK LK CONN FR	11B/A1
	FOR TRK LK FR FOR AUTO. CALL DISTRIBUTION	11A/F1
	FOR TRK TEST REG FR	11B/B1
	FOR WB CTR LK & EXTENSIC JCTR LK FR	11B/E3
	FOR WB LINE CONT FR	11B/C3
	FOR WB LINE LINK FR WIDEBAND SUPL LINE LINK FR	11B/E3
	FOR WB LINE LINK-TRUNK LINK CONNECTOR FR	11B/F3
	FOR WB REMOTE SWITCH SIGNAL CONT FR	11B/G3
	FOR WB SUPL REMOTE SWITCH SIGNAL CONT FR	5E8
	FOR WB TRANSFER LINK FR	5H3
	FOR WB TRK LINK FR	11A/G7
	FOR WB TRK TEST REG FR	5H5

CIRCUIT NOTES: 102.

FEATURE OR OPTION	PROVIDE		
	FIG.	APP OR WRG	QUANTITY
FOR 4W CONFERENCE CONTROLLER FR			
-48 FUSE CKT	3		1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
+130 FR TEST BAT. JACK CKT	15		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
MAKE BUSY LAMP CKT	21		1 PER FR
TEST JACKS FOR CONFERENCE TRK CIRCUITS	23, 70		1 PER FR
FOR 4W INCOMING REG FR			
-48 FUSE CKT (SEE NOTE 11B)	3	ZT	2 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
SPARE JACK CKT	16		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
+130 FR TEST BAT. JACK CKT	15		1 PER FR
GRD FEEDER CKT	10		1 PER FR
TEST JACK CKT FOR REGISTERS AND CAMA SENDERS	62		1 PER FR
FOR 4W LINE LK FR			
-48 FUSE CKT	3		1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
SPARE JACK CKT	16		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 EACH PER 2 BAY FR
-48 FR TEST BAT. CKT	13		1 PER FR
+130 FR TEST BAT. JACK CKT	15		1 PER FR
FOR 4W LINE PREEMPTION GROUPING FR			
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
FOR 4W ORIGINATING REG FR			
-48 FUSE CKT (SEE NOTES 117, 118)	3	ZT, ZN	4 PER FR
4W ORIGINATING REG TEST JACK CKT	69		1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
+130 FR TEST BAT. JACK CKT	15		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
GRD FEEDER CKT	10		2 PER FR
SPARE JACK CKT	16		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
2W AND 4W ORIGINATING REG TEST JACK CKT	61		1 PER FR
TEST JACK CKT FOR REGISTERS AND CAMA SENDERS	62		1 PER FR
TALK BAT. FILTER CKT	24	ZM	1 PER FR
FOR WIDEBAND TRANSFER LINK FR			
GRD FEEDER CKT	10		1 PER FR
-48 FUSE CKT	3	ZT	3 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
+130 FR TEST BAT. JACK CKT	15		1 PER FR
GRD FEEDER CKT	10		1 PER FR

CIRCUIT NOTES: 102.

FEATURE OR OPTION	PROVIDE		
	FIG.	APP OR WRG	QUANTITY
FOR 4W OUTGOING DIAL PULSING SENDER FR			
-48 FUSE CKT (SEE NOTE 11B)	3	ZT	2 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
+130 FR TEST BAT. JACK CKT	15		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
SDR TEST JACK CKT	63		1 PER FR WHEN SDR TEST CKT IS PROVIDED
FOR 4W OUTGOING SDR FR			
-48 FUSE CKT (SEE NOTE 11B)	3	ZT	2 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
GRD FEEDER CKT	10		1 PER FR
+130 FR TEST BAT. JACK CKT	15		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
SPARE JACK CKT	16		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
SDR TEST JACK CKT	63		1 PER FR
FOR 4W TRK GR CONN FR FOR EIGHT MARKERS OR 4W TRK GR CONN FR FOR FOUR MARKERS			
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
FOR 4W TRK LK, SUPL TRK LK, AND EXTENSION TRK LK FRAMES			
-48 FUSE CKT	3		2 PER TRK LK AND 1 PER SUPL TRK LK
-48 FUSE ALARM CKT	4		1 PER TRK LK AND 1 PER SUPL TRK LK
-48 FR TEST BAT. CKT	13		1 EACH PER TRK LK, PER SUPL TRK LK AND PER EXTENSION TRK LK
FR LINE TELEPHONE JACK CKT	17		1 PER TRK LK, PER SUPL TRK LK AND PER EXTENSION TRK LK
SPARE JACK CKT	16		1 PER TRK LK, PER SUPL TRK LK AND PER EXTENSION TRK LK
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER TRK LK, PER SUPL TRK LK AND PER EXTENSION TRK LK
GRD FEEDER CKT	10		1 PER TRK LK, PER SUPL TRK LK AND PER EXTENSION TRK LK
AUTO PROG TRK TST REM CONT JK CKT	64		1 PER TRK LK AND 1 PER SUPL TRK LK
FOR 4W TRK PREEMPTION GROUPING FR			
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
FOR 7'-0" REMOTE ACID RELAY RACK			
-48 BAT. SUPPLY	403		2 PER FR
GRD FEEDER CKT	10		2 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
-48 TALK BAT. FILTER	24		2 PER FR
FOR WIDEBAND TRK TEST REG FR			
-48 FUSE CKT	3	ZT	1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
+130 FR TEST BAT. JACK CKT	15		1 PER FR
GRD FEEDER CKT	10		1 PER FR

CIRCUIT NOTES: 102.

FEATURE OR OPTION	PROVIDE		
	FIG.	APP OR WRG	QUANTITY
FOR 200 - LINE SUPL TRANSFER LINE LK FR			
-48 FUSE CKT	3		1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
FOR ALARM FR			
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
GRD FEEDER CKT	10		1 PER FR
FOR AMA TRNSL FR			
-48 FUSE CKT	3		1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
SPARE JACK CKT	16		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
GRD FEEDER CKT	10		1 PER FR
FOR AUTO. PROG TRK TEST FR OR SUPL AUTO. PROG TRK TEST FR			
-48 FUSE CKT (SEE NOTE 11B)	3	ZT	1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
SPARE JACK CKT	16		1 PER FR
+130 FR TEST BAT. JACK CKT	15		1 PER FR
GRD FEEDER CKT	10		1 PER FR
AUTO. PROG TRK TEST REMOTE CONT JACK CKT	64		1 PER FR
-130 FR TEST BAT. JACK CKT	76		1 PER FR
FOR WIDEBAND SUPL REMOTE SWITCH SIGNAL CONT FR			
-48 FUSE CKT	3		1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT CKT	19		1 PER FR
FOR AIS SENDER FR			
-48 FUSE CKT	3	ZT	2 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
SPARE JACK CKT	16		1 PER FR
+130 FR TEST BAT. JACK CKT	15		1 PER FR
GRD FEEDER CKT	10		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
SDR TEST JACK CKT	63		1 PER FR WHEN SDR TEST CKT IS PROVIDED
FOR AUX 2ND SUPL TRK LK CONN FR			
-48 FUSE CKT	3		2 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR

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CIRCUIT NOTES: (CONT)

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(CONT)

FEATURE OR OPTION	PROVIDE		
	FIG.	APP OR MRG	QUANTITY
FOR AUX 2ND SUPL TRUNK LK CONN FR			
-48 FUSE CKT	3		2 PER FR
-48 FUSE ALARM CKT	9		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
FOR AUX LINE LK FR			
-48 FUSE CKT (SEE NOTE 217)	3		1 OR 2 PER FR AS REQD
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
FORAUX MASTER TEST FR			
-48 FUSE CKT	3	ZT	1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
+130 FR TEST BAT. JACK CKT	15		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
TEST JACK CKT FOR REGISTERS AND CAMA SENDERS	62		1 PER FR
SDR TEST JACK CKT	63		1 PER FR
FOR AUX ORIGINATING REG - INCOMING REG MGR CONN FR			
-48 FUSE CKT	3		2 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
SPARE JACK CKT	16		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
FOR BASIC 100 - LINE TRANSFER LINE LK FR			
-48 FUSE CKT	3		1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
+130 FR TEST BAT. JACK CKT	15		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
FOR BASIC AND SUPL PBX ALLR FRAMES			
-48 FR TEST BAT. CKT	13		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
SPARE JACK CKT	16		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
FOR BASIC COIN ZONE CONCENTRATOR FR			
-48 FUSE CKT	3		1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
+130 FR TEST BAT. JACK CKT	15		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
ALARM RELEASE LEAD CONNECTION (SEE NOTE 124)	77		1 PER FR

CIRCUIT NOTES:

102.

FEATURE OR OPTION	PROVIDE		
	FIG.	APP OR MRG	QUANTITY
FOR CAMA AUTO. PROG TRK TEST FR			
-48 FR TEST BAT. CKT	13		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
SPARE JACK CKT	16		1 PER FR
AUTO. PROG TRK TEST REMOTE CONT JACK CKT	64		1 PER FR
FOR CAMA BILLING INDEXER FR			
-48 FUSE AND -48 AND +130 FUSE ALARM CKT	65		1 PER FR
FUSE ALARM AND FUSE GUARD LAMP CKT	66		1 PER FR
+130 FUSE CKT	9		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
+130 FR TEST BAT. JACK CKT	15		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
SPARE JACK CKT	16		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
GRD FEEDER CKT	10		1 PER FR
ALARM RELEASE KEY CKT (SEE NOTE 124)	32		1 PER FR
TIME ALARM LAMP CKT	67		1 PER FR
FOR CAMA LINE OBSERVING NO. MATCHING FR			
-48 FUSE AND FUSE ALARM CKT	65		2 PER FR
FUSE ALARM AND FUSE GUARD LAMP CKT	66		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
SPARE JACK CKT	16		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
GRD FEEDER CKT	10		1 PER FR
ALARM RELEASE KEY CKT (SEE NOTE 124)	32		1 PER FR
FOR CAMA POSITION LK FR			
-48 FUSE CKT	3		2 PER FR
-48 FR FUSE ALARM CKT	4		1 PER FR
MAKE BUSY LAMP CKT	21		1 PER FR
ALARM RELEASE KEY CKT (SEE NOTE 124)	32		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
+130 FR TEST BAT. JACK CKT	15		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
SPARE JACK CKT	16		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
GRD FEEDER CKT	10		1 PER FR
FOR CAMA TRANSVERTER FR, ANI TRANSVERTER FR OR LAMA-MTR TRANSVERTER FR			
-48 FUSE AND -48 AND +130 FUSE ALARM CKT (SEE NOTE 122)	65	ZV	2 EACH PER CAMA TRANSVERTER FR; 1 PER ANI TRANSVERTER FR; 1 PER LAMA-MTR TRANSVERTER FR
+130 FUSE CKT	9		
TROUBLE RECORDER TIMING AND TIME ALARM LAMP CKT	31		
FUSE ALARM AND FUSE GUARD LAMP CKT	66		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
+130 FR TEST BAT. JACK CKT	15		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
SPARE JACK CKT	16		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT (SEE NOTE 220)	X96		1 PER FR
GRD FEEDER CKT	10		1 PER FR
ALARM RELEASE KEY CKT (SEE NOTE 124)	32		1 PER FR

X PROVIDE FIG. 19 IN LIEU OF FIG. 96 FOR CAMA TRANSVERTER FR

CIRCUIT NOTES:

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FEATURE OR OPTION	PROVIDE		
	FIG.	APP OR MRG	QUANTITY
FOR CENTREX POSITION LK FR			
-48 FUSE CKT	3		1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
ALARM RELEASE KEY CKT (SEE NOTE 124)	32		1 PER FR
ALARM LAMP CKT	72		1 PER FR
FOR COIN SUPERVISORY LINK FR			
-48 FUSE CKT	3		2 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
SPARE JACK CKT	16		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		2 PER FR
GRD FEEDER CKT	10		1 PER FR
FOR COMPLETING MGR AUX LINE LK PULSING FR			
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
FOR COMPLETING MGR LINE LK PULSING FR			
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
FOR DIAL TONE MGR FR (WS)			
-48 FUSE CKT	1		2 PER FR
-48 AND +130 FUSE ALARM CKT	5		1 PER FR
+130 FUSE CKT	9		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
+130 FR TEST BAT. CKT	15		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT (SEE NOTE 220)	96		1 PER FR
ALARM LAMP CKT	31		1 PER FR
ALARM RELEASE KEY CKT (SEE NOTE 124)	32		1 PER FR

CIRCUIT NOTES:

102.

FEATURE OR OPTION	PROVIDE		
	FIG.	APP OR MRG	QUANTITY
FOR FOREIGN AREA TRNSL CONN FR			
-48 FUSE CKT	3		1 PER FOREIGN AREA TRNSL CONN
-48 FUSE ALARM CKT	54		
FUSE ALARM AND FUSE GUARD LAMP CKT	59		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
GRD FEEDER CKT	10		1 PER FR
ALARM RELEASE KEY CKT (SEE NOTE 124)	32		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		2 PER FR
FOR FOREIGN AREA TRNSL FR			
-48 FUSE CKT	3		1 PER FOREIGN AREA TRNSL
-48 AND +130 FUSE ALARM CKT	58		
+130 FUSE CKT	9		
TIME ALARM LAMP CKT	60		
FUSE ALARM AND FUSE GUARD LAMP CKT	59		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
+130 FR TEST BAT. JACK CKT	15		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
GRD FEEDER CKT	10		1 PER FR
ALARM RELEASE KEY CKT (SEE NOTE 124)	32		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		2 PER FR
FOR INCOMING OR TANDEN INCOMING REVERTIVE PULSING REG FR			
-48 FUSE CKT (SEE NOTE 118)	3	ZT	2 PER NON-WIRE SPG INCOMING REG FR; 2 PER WIRE SPG INCOMING REG FR; 1 PER TANDEN INCOMING REVERTIVE PULSING REG FR
-48 FUSE ALARM CKT	4		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
SPARE JACK CKT	16		1 PER FR
+130 FR TEST BAT. JACK CKT	15		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
GRD FEEDER CKT	10		1 PER FR
REVERTIVE IMPULSE INTERRUPTER TEST CKT TEST JACKS	47		1 PER INCOMING REVERTIVE PULSING REG FR
TEST JACK CKT FOR INCOMING REGISTERS	62		1 PER FR
FOR INCOMING REG FRAMES, WHEN REGISTERS ON FR ARE TESTED BY TEST CKT FOR REG AND CAMA SDR CIRCUITS OR TANDEN INCOMING REVERTIVE PULSING REG FRAMES	62		1 PER FR

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CIRCUIT NOTES: (CONT)

FEATURE OR OPTION	PROVIDE	
	FIG. OR WRG	QUANTITY
FOR INCOMING REG FREQUENCY SHIFT PULSING FR		
-48 FUSE CKT	3 ZT	3 PER FR
-48 FUSE ALARM CKT	4	1 PER FR
GRD FEEDER CKT	10	1 PER FR
-48 FR TEST BAT. CKT	13	1 PER FR
+130 FR TEST BAT. JACK CKT	15	1 PER FR
SPARE JACK CKT	16	1 PER FR
FR LINE TELEPHONE JACK CKT	17	1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19	1 PER FR
TEST JACK CKT FOR INCOMING REGISTERS - FREQUENCY SHIFT PULSING ARE TESTED BY TEST CKT FOR REGISTERS AND SENDERS	62	1 PER FR
FOR INCOMING REG LK FR		
-48 FUSE CKT	3	2 PER FR
-48 FUSE ALARM CKT	4	1 PER FR
-48 FR TEST BAT. CKT	13	1 PER FR
FR LINE TELEPHONE JACK CKT	17	1 PER FR
SPARE JACK CKT	16	1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19	1 PER FR
GRD FEEDER CKT	10	1 PER FR
FOR INCOMING REG MKR CONN FR		
-48 FUSE CKT	3	2 PER FR
-48 FUSE ALARM CKT	4	1 PER FR
-48 FR TEST BAT. CKT	13	1 PER FR
FR LINE TELEPHONE JACK CKT	17	1 PER FR
SPARE JACK CKT	16	1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19	1 PER FR
+130 FR TEST BAT. JACK CKT	15	1 PER BASIC FR ONLY
GRD FEEDER CKT	10	1 PER FR
FOR LINE INSULATION TEST FR		
-48 FUSE CKT	3	1 PER FR
-48 FUSE ALARM CKT	4	1 PER FR
-48 FR TEST BAT. CKT	13	1 PER FR
+130 FR TEST BAT. JACK CKT	15	1 PER FR
SPARE JACK CKT	16	1 PER FR
FR LINE TELEPHONE JACK CKT	17	1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19	1 PER FR
GRD FEEDER CKT	10	1 PER FR
FOR LINE LK CONN FR OR SUPL LINE LK CONN FR		
-48 FUSE CKT	3	2 PER FR
-48 FUSE ALARM CKT	4	1 PER FR
-48 FR TEST BAT. CKT	13	1 PER FR
SPARE JACK CKT	16	1 PER FR
FR LINE TELEPHONE JACK CKT	17	1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19	1 PER FR
GRD FEEDER CKT	10	1 PER FR

CIRCUIT NOTES:

FEATURE OR OPTION	PROVIDE	
	FIG. OR WRG	QUANTITY
FOR LINE LK CONN TRK LK CONN FR OR SUPL LINE LK CONN TPK LK CONN FR		
-48 FUSE CKT	3	2 PER FR
-48 FUSE ALARM CKT	4	1 PER FR
-48 FR TEST BAT. CKT	13	1 PER FR
FR LINE TELEPHONE JACK CKT	17	1 PER FR
SPARE JACK CKT	16	1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19	1 PER FR
GRD FEEDER CKT	10	1 PER FR
FOR LINE LK CONN - TRK LK CONN - NO. GR CONN - OUTGOING SDR CONN FR		
-48 FUSE CKT	3	2 PER FR
-48 FUSE ALARM CKT	4	1 PER FR
-48 FR TEST BAT. CKT	13	1 PER FR
SPARE JACK CKT	16	1 PER FR
FR LINE TELEPHONE JACK CKT	17	1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19	1 PER FR
GRD FEEDER CKT	10	1 PER FR
FOR LINE LK FR		
-48 FUSE CKT	3	1 EACH PER BASIC AND SUPL LINE LK FR
-48 FUSE ALARM CKT	4	1 EACH PER BASIC AND SUPL LINE LK FR
GRD FEEDER CKT	10	1 EACH PER BASIC AND SUPL LINE LK FR
FR LINE TELEPHONE JACK CKT	17	EXCEPT 190 LINE(1-BAY) FR AND 1 EACH PER SUPL FR
SPARE JACK CKT	16	EXCEPT 200 LINE SUPL
MASTER TEST FR REMOTE CONT JACK CKT	19	1 PER
-48 FR TEST BAT. CKT	13	50 LINES
SERVICE OBSERVING JACK CKT	41	1 PER SERVICE OBSERVING CONN
SERVICE OBSERVING CORD	42	1 PER SERVICE OBSERVING CONN
TEST LINE JACK CKT	40	1 PER 100 LINES
+130 FR TEST BAT. JACK CKT	15	1 PER BASIC LINE LK FR EXCEPT 190 LINE(1-BAY) FR
FOR LINE LK MKR CONN FR OR SUPL LINE LK MKR CONN FR		
-48 FUSE CKT	3	2 PER FR
-48 FUSE ALARM CKT	4	1 PER FR
-48 FR TEST BAT. CKT	13	1 PER FR
FR LINE TELEPHONE JACK CKT	17	1 PER FR
SPARE JACK CKT	16	1 PER FR
MASTER TEST FR REMOTE CONTROL JACK CKT	19	1 PER FR
+130 FR TEST BAT. JACK CKT	15	1 PER BASIC FR ONLY
GRD FEEDER CKT	10	1 PER FR

CIRCUIT NOTES:

FEATURE OR OPTION	PROVIDE	
	FIG. OR WRG	QUANTITY
FOR LINE LK MKR CONN - ORIGINATING REG MKR CONN - INCOMING REG MKR CONN FR OR SUPL ORIGINATING REG MKR CONN - INCOMING REG MKR CONN FR		
-48 FUSE CKT	3	2 PER FR
-48 FUSE ALARM CKT	4	1 PER FR
-48 FR TEST BAT. CKT	13	1 PER FR
FR LINE TELEPHONE JACK CKT	17	1 PER FR
SPARE JACK CKT	16	1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19	1 PER FR
+130 FR TEST BAT. JACK CKT	15	1 PER FR
GRD FEEDER CKT	10	1 PER FR
FOR MAN. OUTGOING TRK TEST FR		
-48 FR TEST BAT. CKT	13	1 PER FR
SPARE JACK CKT	16	1 PER FR
+130 FR TEST BAT. JACK CKT	15	1 PER FR
FR LINE TELEPHONE JACK CKT	17	1 PER FR
GRD FEEDER CKT	10	1 PER FR
JACK CKT FOR 2-WAY TRMSN TESTING	71	1 PER JACK ENDED 2-WAY TRMSN TEST TR-3 JACKS PER MKR GR
FOR MKR 4W FR		
GRD FEEDER CKT	10	1 PER FR
-48 FR TEST BAT. CKT	13	1 PER FR
SPARE JACK CKT	16	1 PER FR
FR LINE TELEPHONE JACK CKT	17	1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19	1 PER FR
FOR MKR 4W PREEMPTION FR		
GRD FEEDER CKT	10	1 PER FR
-48 FR TEST BAT. CKT	13	1 PER FR
SPARE JACK CKT	16	1 PER FR
FR LINE TELEPHONE JACK CKT	17	1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19	1 PER FR
FOR MKR FR (WIRE SPRING)		
-48 FUSE CKT	1	4 PER 2 WIRE SPG BAYS, 2 PER 2 NON-WIRE SPG BAYS
-48 AND +130 FUSE ALARM CKT	5	
ALARM RELEASE KEY CKT (SEE NOTE 124)	32	
ALARM LAMP CKT	31	
+130 FUSE CKT	9	1 EACH PER 2 BAYS
-48 FR TEST BAT. CKT	13	
FR LINE TELEPHONE JACK CKT	17	
SPARE JACK CKT	16	
+130 FR TEST BAT. JACK CKT	15	
MASTER TEST FR REMOTE CONT JACK CKT (SEE NOTE 220)	96	
GRD FEEDER CKT	10	
TRNSL AND CODE TREATMENT BAYS	-48 FUSE CKT 1 ZT -48 FR TEST BAT. CKT 13 FR LINE TELEPHONE JACK CKT 17 SPARE JACK CKT 16 MASTER TEST FR REMOTE CONT JACK CKT (SEE NOTE 220) 96 GRD FEEDER CKT 10	1 EACH PER 2 BAYS

CIRCUIT NOTES:

FEATURE OR OPTION	PROVIDE	
	FIG. OR WRG	QUANTITY
FOR MKR FR (WIRE SPRING) (CONT)		
ROUTE REL BAY, SUPL SERVICE TREATMENT BAY, CODE CONV BAY, PBX ALLR BAY	-48 FR TEST BAT. CKT 13 FR LINE TELEPHONE JACK CKT 17 SPARE JACK CKT 16 MASTER TEST FR REMOTE CONT JACK CKT 19	1 EACH PER BAY
FOR MKR FR (NON-WIRE SPRING)		
CAMA BAY (SEE NOTE 106)	-48 FUSE AND FUSE ALARM CKT 65 FUSE ALARM AND FUSE GUARD LAMP CKT 66 -48 FR TEST BAT. CKT 13 FR LINE TELEPHONE JACK CKT 17 SPARE JACK CKT 16 MASTER TEST FR REMOTE CONT JACK CKT 19 GRD FEEDER CKT 10	1 PER MKR CKT 1 PER BAY 1 PER BAY 1 PER BAY 1 PER BAY 1 PER BAY
TANDEM CODE CORRECTING FR	-48 FR TEST BAT. CKT 13 FR LINE TELEPHONE JACK CKT 17 SPARE JACK CKT 16 MASTER TEST FR REMOTE CONT JACK CKT 19	1 PER FR 1 PER FR 1 PER FR 1 PER FR
CLASS OF SERVICE REL BAY, SUPL CLASS OF SERVICE BAY, TRK FR TEST LEAD CONN BAY, SUPL ROUTE REL BAY, CODE CONV AND ROUTE REL BAY	-48 FR TEST BAT. CKT 13 FR LINE TELEPHONE JACK CKT 17 SPARE JACK CKT 16 MASTER TEST FR REMOTE CONT JACK CKT 19	1 EACH PER BAY
TRNSL AND ROUTE REL BAYS	-48 FUSE CKT 1 ZT -48 FR TEST BAT. CKT 13 FR LINE TELEPHONE JACK CKT 17 SPARE JACK CKT 16 MASTER TEST FR REMOTE CONT JACK CKT (SEE NOTE 220) 96 GRD FEEDER CKT 10	1 EACH PER 2 BAYS
FOR MKR - ROUTE PROGRAM FR		
GRD FEEDER CKT	10	1 PER FR
-48 FR TEST BAT. CKT	13	1 PER FR
SPARE JACK CKT	16	1 PER FR
FR LINE TELEPHONE JACK CKT	17	1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19	1 PER FR

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CIRCUIT NOTES: (CONT)
102.
(CONT)

FEATURE OR OPTION	PROVIDE		
	FIG.	APP OR WRG	QUANTITY
FOR MASTER TEST CONN FR (HS) AND SUPL MASTER TEST CONN FR (WS)			
-48 FUSE MASTER TEST CONN FR (SEE NOTE 118) CKT	3	ZT	1 PER FR
SUPL MASTER TEST CONN FR	3		1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
FOR MASTER TEST FR			
-48 FUSE CKT	3		
-48 AND +130 FUSE ALARM CKT	7		
-48 FR TEST BAT. CKT	13		
TELEPHONE JACK CKT	17		
+130 FR TEST BAT. JACK CKT	15		
SPARE JACK CKT	16		1 EACH PER
GRD FEEDER CKT	10		2 BAYS
REVERTIVE IMPULSE INTERRUPTER TEST CKT TEST JACKS	47		
MASTER TEST FR REMOTE CONTROL JACK CKT	19		1 PER BAY
CONNECTOR FOR USE WITH IA PULSING ANALYZER			
	95		1 PER OFFICE EQUIPPED WITH FLAT-SPRING TYPE MF & DP SENDERS & REGISTERS
RECEIVER BAY			
-48 FUSE CKT	3	ZT	1 PER BAY
-48 AND +130 FUSE ALARM CKT	7		1 PER BAY
-48 FR TEST BAT. CKT	13		1 PER BAY
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER BAY
RECORDER POWER SUPPLY CKT	12		1 PER BAY
FR LINE TELEPHONE JACK CKT	17		1 PER BAY
SPARE JACK CKT	16		1 PER BAY
+130 FR TEST BAT. JACK CKT	15		1 PER BAY
GRD FEEDER CKT	10		1 PER BAY
JACK SET			
-48 FUSE CKT	3		1 PER BAY
-48 FUSE ALARM CKT	7		1 PER BAY
GRD FEEDER CKT	10		1 PER BAY
HANDSET	52		1 PER BAY
AUTO. MONITOR BAY AND AUX REG AND SDR TEST BAYS			
-48 FUSE CKT (SEE NOTE 118)	3	ZT	1 PER BAY
-48 FUSE ALARM CKT	7		1 PER BAY
+130 FUSE CKT	9		1 PER BAY
-48 FR TEST BAT. CKT	13		1 PER BAY
+130 FR TEST BAT. JACK CKT	15		1 PER BAY
SPARE JACK CKT	16		1 PER BAY
FR LINE TELEPHONE JACK CKT	17		1 PER BAY
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER BAY
GRD FEEDER CKT	10		1 PER BAY
SPARE JACK CKT	16		1 PER BAY
REG AND SDR TEST BAYS			
-48 FUSE CKT (SEE NOTE 118)	3	ZT	1 EACH PER 2 BAYS
-48 AND +130 FUSE ALARM CKT	7		
-48 FR TEST BAT. CKT	13		
+130 FUSE CKT	9		
+130 FR TEST BAT. JACK CKT	15		
FR LINE TELEPHONE JACK CKT	17		
MASTER TEST FR REMOTE CONT JACK CKT	19		
GRD FEEDER CKT	10		
SPARE JACK CKT	16		
SUP CONTROL BAY			
-48 FUSE CKT	3	ZT	1 PER BAY
-48 FUSE ALARM CKT	7		1 PER BAY
-48 FR TEST BAT. CKT	13		1 PER BAY
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER BAY
FR LINE TELEPHONE JACK CKT	17		1 PER BAY
SPARE JACK CKT	16		1 PER BAY
GRD FEEDER CKT	10		1 PER BAY
RECORDER PWR SUPPLY CKT	12		1 PER BAY (SEE NOTE 222)
-48 FUSE CKT	3	ZT	

(ABM ONLY)

(MFR DISC)

CIRCUIT NOTES:
102.

FEATURE OR OPTION	PROVIDE		
	FIG.	APP OR WRG	QUANTITY
FOR MASTER TIMING FR			
-48 FUSE CKT	3		2 PER FR
+130 FUSE CKT	9		2 PER FR
-48 AND +130 FUSE ALARM CKT	6		2 PER FR
-48 FRAME TEST BAT. CKT	13		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
SPARE JACK CKT	16		1 PER FR
RECORDER TEST REMOTE CONT JACK CKT	43		1 PER FR
ROUTINE TEST JACK CKT	35		2 PER FR
GRD FEEDER CKT	10		1 PER FR
FUSE GUARD LAMP CKT	33		2 PER FR
ALARM RELEASE KEY CKT (SEE NOTE 124)	36		1 PER FR
ALARM CUT-OFF KEY CKT	37		1 PER FR
RECORDER SELECTOR OUT OF SYNCHRONISM LAMP CKT	38		1 PER RECORDER
MASTER TIMING TEST LAMP CKT	39		1 PER FR
TIME ALARM LAMP CKT	34		2 PER FR
FOR MESSAGE REG FR OR UNIT FOR REL RK MOUNTING			
MESSAGE REG FUSE ALARM CKT	4		1 PER FR
MESSAGE REG FUSE AND FUSE ALARM REL CKT	54		1 PER FR OR UNIT
JACK, KEY, AND LAMP CKT	25	ZE	1 PER FR OR 100 CAP. UNIT
HANDSET	97		1 EACH
32A TEST SET	28		PER OFFICE
RECORDERS TALKING LINE JACK CKT	29		1 PER FR OR 100 CAP. UNIT
FR LINE TELEPHONE JACK CKT	17		1 PER FR
SPARE JACK CKT	16		1 PER FR
BUZZER CKT	26		1 PER 10 FR MAXIMUM OR 100 CAP. UNIT
HEAD TELEPHONE SET	18		AS REQD
GRD FEEDER SET	10		1 PER FR
FOR MESSAGE TIMING FR			
-48 FUSE CKT	3		1 PER FR
FR FUSE ALARM CKT FOR -48 SIGNAL BAT.	4		1 PER FR
FR FUSE ALARM CKT FOR ALL POTENTIALS OTHER THAN -48	4		1 PER FR
22V AC FUSE ALARM REL CKT	74		1 PER FR
FUSE AND FUSE ALARM REL CKT FOR MESSAGE REG POTENTIALS	75		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
SPARE JACK CKT	16		1 PER FR
HEAD TELEPHONE SET	18		AS REQD
GRD FEEDER CKT	10		1 PER FR
JACK, KEY, AND LAMP CKT	25	ZF	1 PER FR
HANDSET	97		1 EACH
32A TEST SET	28		PER OFFICE
RECORDERS TALKING LINE JACK CKT	29		1 PER FR
BUZZER CKT	26		1 PER MAXIMUM OF 10 MESSAGE TIMING OR MESSAGE REG FRAMES OR BOTH

CIRCUIT NOTES:
102.

FEATURE OR OPTION	PROVIDE		
	FIG.	APP OR WRG	QUANTITY
FOR MF CURRENT SUPPLY FR			
-48 FUSE CKT	3		2 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
+130 FR TEST BAT. JACK CKT	15		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
GRD FEEDER CKT	10		1 PER FR
FOR MF RECEIVER CONT CONN FR (PROVISIONAL)			
-48 FUSE CKT	3		1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
+130 FR TEST BAT. JACK CKT	15		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
ALARM RELEASE KEY CKT (SEE NOTE 124)	32		1 PER FR
FOR MF RECEIVER FR (MFR DISC) OR CAMA MF RECEIVER FR			
-48 FUSE CKT	3		2 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
GRD FEEDER CKT	10		1 PER FR
FOR NO. GR CONN CONT FR			
-48 FR TEST BAT. CKT	13		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
SPARE JACK CKT	16		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
GRD FEEDER CKT	10		1 PER FR
FOR NO. GR CONN FR			
-48 FUSE CKT	3		2 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
SPARE JACK CKT	16		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
GRD FEEDER CKT	10		1 PER FR
FOR NO. GR CONN OUTGOING SDR CONN FR OR SUPL NO. GR CONN OUTGOING SDR CONN FR			
-48 FUSE CKT	3		2 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
SPARE JACK CKT	16		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
GRD FEEDER CKT	10		1 PER FR

(MFR DISC) (SEE NOTE 206)

(MFR DISC) (SEE NOTE 219)

CIRCUIT NOTES:
102.

FEATURE OR OPTION	PROVIDE		
	FIG.	APP OR WRG	QUANTITY
FOR NO. GR FR			
-48 FR TEST BAT. CKT	13		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
SPARE JACK CKT	16		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
GRD FEEDER CKT	10		1 PER FR
FOR OFFICE INTERRUPTER FR			
-48 FUSE CKT (SEE NOTE 118)	3	ZT	2 OR 3 PER FR AS REQD
-48 FUSE ALARM CKT	4		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
SPARE JACK CKT	16		1 PER FR
GRD FEEDER CKT	10		1 PER FR
+130 FR TEST BAT. JACK CKT	15		1 PER FR
+130 FUSE AND PILOT FUSE CKT	55		2 OR 3 PER FR AS REQD
LOW TONE FUSE ALARM CKT	56		1 PER FR
FOR OFFICE TEST FR			
-48 FUSE CKT	3		1 PER BAY
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
OFFICE TEST FR REMOTE CONT JACK CKT	19		1 PER FR
-48 TALKING BAT. FILTER CKT	24	ZM	1 PER FR
TELEPHONE JACK CKT	51		1 PER FR
HANDSET	52		1 PER FR
FOR ORIGINATING REG FR			
-48 FUSE CKT (SEE NOTE 118)	3	ZT	4 PER WIRE SPG FR, 2 PER NON-WIRE SPG FR
-48 FUSE ALARM CKT	4		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
+130 FR TEST BAT. JACK CKT	15		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
SPARE JACK CKT	16		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
GRD FEEDER CKT	10		1 PER FR
2W AND 4W ORIGINATING REG TEST JACK CKT	61		1 PER FR
TEST JACK CKT FOR ORIGINATING REGISTERS WHEN ORIGINATING REGISTERS ARRANGED FOR TOUCH-TONE OPERATION ARE TESTED BY THE TEST CKT FOR REG AND CAMA SDR CIRCUITS	62		1 PER FR
FOR NO. GR REL RK FR			
-48 FR TEST BAT. CKT	13		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
SPARE JACK CKT	16		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
GRD FEEDER CKT	10		1 PER FR

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CIRCUIT NOTES: (CONT)

102. (CONT)	FEATURE OR OPTION	PROVIDE	
		FIG.	APP OR WRG QUANTITY
FOR ORIGINATING REG LINE MEMORY FR			
	4W ORIGINATING REG TEST JACK CKT	69	1 PER FR
	-48 FR TEST BAT. CKT	13	1 PER FR
	FR LINE TELEPHONE JACK CKT	17	1 PER FR
	SPARE JACK CKT	16	1 PER FR
	MASTER TEST FR REMOTE CONT JACK CKT	19	1 PER FR
	GRD FEEDER CKT	10	1 PER FR
	ORIGINATING REG TEST JACK CKT	61	1 PER FR
FOR ORIGINATING REG MKR CONN FR OR AUX REG MKR CONN FR			
	-48 FUSE CKT	3	2 PER FR
	-48 FUSE ALARM CKT	4	1 PER FR
	-48 FR TEST BAT. CKT	13	1 PER FR
	+130 FR TEST BAT. JACK CKT	15	1 PER BASIC FR ONLY
	FR LINE TELEPHONE JACK CKT	17	1 PER FR
	SPARE JACK CKT	16	1 PER FR
	MASTER TEST FR REMOTE CONT JACK CKT	19	1 PER FR
	GRD FEEDER CKT	10	1 PER FR
	-48 FR TEST BAT. CKT	13	1 PER FR
	FR LINE TELEPHONE JACK CKT	17	1 PER FR
	SPARE JACK CKT	16	1 PER FR
	MASTER TEST FR REMOTE CONT JACK CKT	19	1 PER FR
FOR OUTGOING SDR CONN FR OR AUX, SUPPL AUX, OR SUPPL OUTGOING SDR CONN FR			
	-48 FUSE CKT	3	2 PER FR
	-48 FUSE ALARM CKT	4	1 PER FR
	-48 FR TEST BAT. CKT	13	1 PER FR
	FR LINE TELEPHONE JACK CKT	17	1 PER FR
	SPARE JACK CKT	16	1 PER FR
	MASTER TEST FR REMOTE CONT JACK CKT	19	1 PER FR
	GRD FEEDER CKT	10	1 PER FR
FOR OUTGOING SDR FR, INTERMARKER GR SDR FR, OR CAMA SDR FR			
	-48 FUSE CKT (SEE NOTE 118)	3	2 PER FR
	-48 FUSE ALARM CKT	4	1 PER FR
	-48 FR TEST BAT. CKT	13	1 PER FR
	+130 FR TEST BAT. JACK CKT	15	1 PER FR
	SPARE JACK CKT	16	1 PER FR
	FR LINE TELEPHONE JACK CKT	17	1 PER FR
	MASTER TEST FR REMOTE CONT JACK CKT	19	1 PER FR
FOR OUTGOING SDR LK FR			
	-48 FUSE CKT	3	2 PER FR
	-48 FUSE ALARM CKT	4	1 PER FR
	-48 FR TEST BAT. CKT	13	1 PER FR
	FR LINE TELEPHONE JACK CKT	17	1 PER FR
	SPARE JACK CKT	16	1 PER FR
	MASTER TEST FR REMOTE CONT JACK CKT	19	1 PER FR
	GRD FEEDER CKT	10	1 PER FR

CIRCUIT NOTES:

102.	FEATURE OR OPTION	FIG.	APP OR WRG	QUANTITY
FOR OUTGOING SDR FR, INTERMARKER GR SDR FR, OR CAMA SDR FR (CONT)				
	SDR TEST JACK CKT	63		1 PER OUTGOING SDR FR WHEN SDR TEST CKT IS PROVIDED
	TEST JACK CKT FOR CAMA SENDERS	62		1 PER CAMA SDR FR WHEN TEST JACK CKT FOR CAMA SENDERS IS PROVIDED
FOR OUTGOING SDR FREQUENCY SHIFT PULSING FR				
	-48 FUSE CKT (SEE NOTE 118)	3	ZT	3 PER FR
	-48 FUSE ALARM CKT	4		1 PER FR
	GRD FEEDER CKT	10		1 PER FR
	-48 FR TEST BAT. CKT	13		1 PER FR
	+130 FR TEST BAT. JACK CKT	15		1 PER FR
	SPARE JACK CKT	16		1 PER FR
	FR LINE TELEPHONE JACK CKT	17		1 PER FR
	MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
	SDR TEST JACK CKT	63		1 PER OUTGOING SDR FREQUENCY SHIFT PULSING FR WHEN SDR TEST CKT IS PROVIDED
FOR OUTGOING SDR LINE LK PULSING FR				
	-48 FUSE CKT (SEE NOTE 118)	3	ZT	3 PER FR
	-48 FR FUSE ALARM CKT	4		1 PER FR
	GRD FEEDER CKT	10		1 PER FR
	-48 FR TEST BAT. CKT	13		1 PER FR
	+130 FR TEST BAT. JACK CKT	15		1 PER FR
	SPARE JACK CKT	16		1 PER FR
	FR LINE TELEPHONE JACK CKT	17		1 PER FR
	MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
	SDR TEST JACK CKT	63		1 PER FR WHEN SDR TEST CKT IS PROVIDED
FOR OUTGOING SDR LK FR				
	-48 FUSE CKT	3		2 PER FR
	-48 FUSE ALARM CKT	4		1 PER FR
	-48 FR TEST BAT. CKT	13		1 PER FR
	FR LINE TELEPHONE JACK CKT	17		1 PER FR
	SPARE JACK CKT	16		1 PER FR
	MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
	GRD FEEDER CKT	10		1 PER FR

CIRCUIT NOTES:

102.	FEATURE OR OPTION	FIG.	APP OR WRG	QUANTITY
FOR OUTGOING SDR LK - LINE LK PULSING FR				
	-48 FUSE CKT	3		1 PER FR
	-48 FUSE ALARM CKT	4		1 PER FR
	-48 FR TEST BAT. CKT	13		1 PER FR
	SPARE JACK CKT	16		1 PER FR
	FR LINE TELEPHONE JACK CKT	17		1 PER FR
	MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
	GRD FEEDER CKT	10		1 PER FR
FOR PEG COUNT AUX FR				
	-48 FUSE CKT	3		1 PER FR
	-48 FUSE ALARM CKT	4		1 PER FR
	GRD FEEDER CKT	10		1 PER FR
	-48 FR TEST BAT. CKT	13		1 PER FR
	+130 FR TEST BAT. JACK CKT	15		1 PER FR
	SPARE JACK CKT	16		1 PER FR
	FR LINE TELEPHONE JACK CKT	17		1 PER FR
	MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
FOR PERF CABINET				
	-48 FUSE CKT	3		1 PER PERF CABINET
	-48 FUSE ALARM CKT	4		1 PER PERF CABINET
	-48 FR TEST BAT. CKT	13		1 EACH PER 4 CABINETS
	FR LINE TELEPHONE JACK CKT	17		1 EACH PER 4 CABINETS
	SPARE JACK CKT	16		1 EACH PER 4 CABINETS
	RECORDER TEST REMOTE CONT JACK CKT	43		1 PER MKR GR
	MASTER TIMING TEST LAMP CKT	44		1 PER CABINET
	OUTLETS FOR OUTPUT REEL MOTOR	45		1 PER PERFORMANCE CABINET
	OUTPUT REEL MOTOR CKT	46		1 PER LINE-UP OF CABINETS
	GRD FEEDER CKT	51		1 PER MAX OF 8 PERF CABINETS IN SAME LINE-UP (SEE NOTE 121)
	OUTPUT REEL MOTOR NO VOLTAGE ALARM TRANSFORMER CKT	57		1 PER RECORDER USED FOR CAMA OR LAMA TRAFFIC
	PEG COUNT REGISTERS FOR CAMA OR LAMA CALL COUNT PROCESS CONT WITH RECORDERS ARRANGED TO COUNT INITIAL ENTRIES PER RECORDER	68		1 PER RECORDER USED FOR CAMA OR LAMA TRAFFIC
	MICROSWITCH FOR PAPER-TAKE-UP ALARM IN CAMA PERF CABINET	82		1 PER PERF CABINET
	PAPER JAM DETECTOR (SEE NOTE 123)	98		1 PER PERF CABINET
	PAPER JAM ALARM CKT	99		1 PER CABINET
	PAPER JAM DETECTOR RESET CKT	100		1 PER CABINET
FOR POWER, RINGING, AND TONE DISTRIBUTION FR				
	FR FUSE ALARM CKT FOR -48 SIG BAT.	4	109	1 PER FR
	FR FUSE ALARM CKT FOR ALL POTENTIALS OTHER THAN -48 SIG BAT.	4	109	1 PER FR
	-48 FR TEST BAT. CKT	13		1 PER FR
	+130 FR TEST BAT. JACK CKT	15		1 PER FR
	FR LINE TELEPHONE JACK CKT	17		1 PER FR
	SPARE JACK CKT	16		1 PER FR
	-48 FUSE CKT	3		1 PER FR
	MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
	GRD FEEDER CKT	10		1 PER FR
	FR FUSE ALARM CKT FOR EVEN FUSE PANELS	4		1 PER FR
	FR FUSE ALARM CKT FOR ODD FUSE PANELS	4		1 PER FR

CIRCUIT NOTES:

102.	FEATURE OR OPTION	FIG.	APP OR WRG	QUANTITY
FOR PPCS SDR FR (MFR DISC)				
	-48 FUSE CKT	3		2 PER FR
	-48 FUSE ALARM CKT	4		1 PER FR
	GRD FEEDER CKT	10		1 PER FR
	-48 FR TEST BAT. CKT	13		1 PER FR
	+130 FR TEST BAT. JACK CKT	15		1 PER FR
	SPARE JACK CKT	16		1 PER FR
	FR LINE TELEPHONE JACK CKT	17		1 PER FR
	MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
	SDR TEST JACK CKT FOR PPCS SDR FRAMES	73		1 PER FR
FOR PRETRANSLATOR FR				
	-48 FUSE CKT	2		1 PER PRT AND ASSOC PRT CONN
	-48 AND +130 FUSE ALARM CKT	8		1 PER FR
	+130 FUSE CKT	9		1 PER PRT
	-48 FR TEST BAT. CKT	13		1 PER FR
	+130 FR TEST BAT. JACK CKT	15		1 PER FR
	FR LINE TELEPHONE JACK CKT	17		1 PER FR
	SPARE JACK CKT	16		1 PER FR
	MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
	GRD FEEDER CKT	10		1 PER FR
	TROUBLE RECORDER TIMING LAMP CKT	11		1 PER PRT
	ALARM RELEASE KEY CKT (SEE NOTE 124)	32		1 PER FR
FOR RANGE EXTENDER FR				
	-48 FUSE CKT	3	ZT	1 PER FR
	GRD FEEDER CKT	10		1 PER FR
	-48 TALKING BAT. FILTER CKT	24	ZM	1 PER FR
	-48 FR TEST BAT. CKT	13		1 PER FR
	FR LINE TELEPHONE JACK CKT	17		1 PER FR
	-72 TALKING BAT. FILTER CKT	24		1 PER FR
	-43 AND -72 TALKING BAT. FUSE CKT	78		1 PER FR
	-49 AND -72 FUSE ALARM CKT	79		1 PER FR
	MAKE BUSY LAMP CKT	21		1 PER FR
	SPARE JACK CKT	16		1 PER FR
	MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
	ALARM RELEASE KEY CKT	80		1 PER FR
FOR RECORDER FR				
	-48 FUSE CKT	3		3 PER FR
	-48 FUSE ALARM CKT	4		1 PER FR
	-48 FR TEST BAT. CKT	13		1 PER FR
	FR LINE TELEPHONE JACK CKT	17		1 PER FR
	SPARE JACK CKT	16		1 PER FR
	MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
	GRD FEEDER CKT	10		1 PER FR
	RECORDER TEST REMOTE CONT JACK CKT	43		1 PER FR
	MASTER TIMING TEST LAMP CKT	48		1 PER FR
	ALARM RELEASE KEY CKT	49		1 PER FR
	AUTO. PRG TRK TEST REMOTE CONT JACK CKT	64		1 PER FR

DRAWING ISSUE
288 JAR
29D LP
BOD LP
32D GA

ISSUE
45D

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CIRCUIT NOTES: (CONT)
102.
(CONT)

FEATURE OR OPTION	PROVIDE		
	FIG.	APP OR WRG	QUANTITY
FOR REG PRIORITY LK FR			
-48 FUSE CKT	3		2 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
GRD FEEDER CKT	10		1 PER FR
SPARE JACK CKT	16		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
FOR REL RK FR			
-48 FUSE CKT (SEE NOTE 117 & 118)	3	ZJ, ZN	1 OR 2 PER BAY AS REQD
-48 FUSE ALARM CKT	4		1 PER FR
-48 TALKING BAT. FILTER CKT	24	ZM	1 PER BAY
-48 FR TEST BAT. CKT	13		1 PER FR
+130 FR TEST BAT. JACK CKT	15		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
SPARE JACK CKT	16		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		2 PER FR
-24 FR TEST BAT. CKT	14		
TEST JACK CKT FOR INCOMING OR INCOMING INTERTOLL TRUNKS, OR LINE CIRCUITS FOR AUTO. CALL DISTRIBUTION, REVERSE BAT. SUPPLY	20		
MAKE EASY LAMP CKT	21		
PERMANENT SIGNAL ALARM LAMP FOR INCOMING TRUNKS FROM STEP-BY-STEP OFFICE OR FOR LINE CKT FOR AUTO. CALL DISTRIBUTION, FOR 2-WAY OFFICE NETWORK ACCESS LINE CKT, OR FOR 2-WAY LINE CKT FOR WIDEBAND SERVICE	22		1 EACH PER FR AS REQD
TEST JACK CKT FOR INCOMING LOC, INCOMING INTERTOLL OR 2W OR 4W 2-WAY INTERTOLL TRUNKS, E AND H SIGNALING, OR 4W 2-WAY TO PBX, ZERO OPERATOR, OPERATOR TANDER, LISTED DIRECTORY NO. AND INTERCEPT TRUNKS OR PREEMPTIBLE AUX LINE CIRCUITS, OR LINE CIRCUITS FOR AUTO. CALL DISTRIBUTION	23		
GRD FEEDER CKT	10		1 PER BAY AS REQD
INCOMING TRK TEST JACK CKT FOR 4W, OUTGOING TRK TEST CKT	50		1 PER FR WITH INTEROFFICE TRUNKS TO BE TESTED BY MAN. OUTGOING TRK TEST CKT
AUTO. PROG TRK TEST REMOTE CONT JACK CKT	64		
TEST JACK CKT FOR USE WITH ORIGINATING REC "TOUCH-TONE (R)" OPERATION OF MULTI-FREQUENCY PULSING RECEIVERS TO BE TESTED BY TEST CKT FOR REG AND CAMA SDR CIRCUITS	62		1 EACH PER FR AS REQD
TEST JACK FOR 4W 2-WAY INTERTOLL TRUNKS, E & H SIGNALING, OR 4W 2-WAY TO PBX, ZERO OPERATOR, OPERATOR TANDER, LISTED DIRECTORY NO. AND INTERCEPT TRUNKS OR PREEMPTIBLE AUX LINE CIRCUITS	70		
TEST JACK CKT FOR CAMA TRUNKS	62		1 PER FR MOUNTING CAMA TRUNKS
FOR SPLIT 100-LINE SUPL TRANSFER LINE LK FR			
-48 FUSE CKT	3		1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR

CIRCUIT NOTES:
102.

FEATURE OR OPTION	PROVIDE		
	FIG.	APP OR WRG	QUANTITY
FOR SUPL COIN ZONE CONCENTRATOR FR			
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
FOR SUPL DIAL TONE MKR FR ON MKR (FCR)			
-48 FR TEST BAT. CKT	13		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
SPARE JACK CKT	16		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
FOR SUPL LINE LK MARKER CONN FR			
-48 FUSE CKT	3		4 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
FOR SUPL RECORDER FR			
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
FOR TRAFFIC REG FR			
-48 FUSE CKT	3		1 PER FR PER MKR GR
-48 FUSE ALARM CKT	4		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		2 PER FR
GRD FEEDER CKT	10		1 PER FR
FOR TRANSFER LINE IDENTIFIER FR OR TRANSFER SUPL LINE IDENTIFIER FR			
-48 FUSE CKT	3		2 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
FOR TRANSFER LINE LK CONN-TRANSFER TRK LK CONN-TRANSFER LINE LK MKR CONN FR			
-48 FUSE CKT	3		2 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
FOR CALL IDENTITY INDEXER FR (AMA-MTR)			
-48 FR TEST BAT. CKT	13		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
SPARE JACK CKT	16		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FUSE CKT	3		2 PER FR
-48 ALARM CKT	4		1 PER FR

CIRCUIT NOTES:
102.

FEATURE OR OPTION	PROVIDE		
	FIG.	APP OR WRG	QUANTITY
FOR TRANSFER REG FR			
-48 FUSE CKT (SEE NOTES 117, 118)	3	ZT, ZN	2 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
+130 FR TEST BAT. JACK CKT	15		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
TALK BAT. FILTER CKT	24	ZM	1 PER FR
FOR TRANSFER REG LK FR			
-48 FUSE CKT	3		2 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
FOR TRANSFER REG MKR CONN FR			
-48 FUSE CKT	3		2 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
+130 FR TEST BAT. JACK CKT	15		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
FOR TRANSFER TRK LK FR			
-48 FUSE CKT	3		1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
FOR TRASN AUTO. PROG TRK TEST FR			
-48 FUSE CKT (SEE NOTE 118)	3	ZT	1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
+130 FR TEST BAT. JACK CKT	15		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
AUTO. PROG TRK TEST REMOTE CONT JACK CKT	64		1 PER FR
-130 FR TEST BAT. JACK CKT	76		1 PER FR
FOR MASTER TIMING FR (AMA-MTR)			
-48 FR TEST BAT. CKT	13		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
SPARE JACK CKT	16		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
-48 FUSE CKT (SEE NOTE 118)	90	ZT	4 PER FR
FUSE GUARD LAMP CKT	92		1 PER FR
ALARM RELEASE KEY CKT	49		1 PER FR
-48 FUSE AND FUSE ALARM CKT	65	ZV	4 PER FR
FUSE ALARM AND FUSE GUARD LAMP CKT	66		1 PER FR

CIRCUIT NOTES:
102.

FEATURE OR OPTION	PROVIDE		
	FIG.	APP OR WRG	QUANTITY
FOR TRANSVERTER CONN FR, CAMA TRANSVERTER CONN FR, OR INT TRANSVERTER CONN FR			
-48 FUSE CKT	3		1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
+130 FR TEST BAT. JACK CKT	15		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
SPARE JACK CKT	16		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
GRD FEEDER CKT	10		1 PER FR
FOR TRANSVERTER FR			
-48 FUSE CKT	3		1 PER FR
-48 AND +130 FUSE ALARM CKT	5		1 PER FR
+130 FUSE CKT	9		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
+130 FR TEST BAT. JACK CKT	15		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
SPARE JACK CKT	16		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
GRD FEEDER CKT	10		1 PER FR
FOR TRANSFER REG MKR CONN FR			
-48 FUSE CKT	3		2 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
+130 FR TEST BAT. JACK CKT	15		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
FOR TRANSFER TRK LK FR			
-48 FUSE CKT	3		1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
FOR TRK LK AND EXTENSION TRK LK FRAMES			
-48 FUSE CKT	3		1 EACH PER TRK LK FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER TRK LK FR AND 1 PER EXTENSION BAY
FR LINE TELEPHONE JACK CKT	17		1 PER FR
SPARE JACK CKT	16		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
AUTO. PROG TRK TEST REMOTE CONT JACK CKT	64		1 PER TRK LK FR
FOR TRK LK CONN CONT FR OR AUX TRK LK CONN FR			
-48 FR TEST BAT. CKT	13		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
SPARE JACK CKT	16		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
GRD FEEDER CKT	10		1 PER FR
FOR CENTREX MULTI-CONSOLE CONN/TRUNK FR			
-48 FUSE CKT	3		4 PER FR
-48 FUSE ALARM CKT	4		2 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR

(MFR DISC)

(MFR DISC) (SEE NOTE 218)

(MFR DISC) (SEE NOTE 125)

DRAWING ISSUE
288
290
31A
32D
370

ISSUE 488

MISCELLANEOUS CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

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CIRCUIT NOTES: (CONT)
102.
(CONT)

FEATURE OR OPTION	PROVIDE		
	FIG.	APP OR WRG	QUANTITY
TRK GROUP TRAFFIC SAMPLE FR OR SUPL TRK GROUP TRAFFIC SAMPLE FR			
-48 FUSE CKT	57		1 PER FR
+130 FUSE CKT	9		1 PER FR
-48 AND +130 FUSE ALARM CKT	84		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
+130 FR TEST BAT. CKT	15		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
TALKING BAT. FILTER CKT	24	ZM	1 PER FR
BASIC 190 LINE, LINE LK FR FOR AUTO. CALL DISTRIBUTION			
-48 FUSE CKT (SEE NOTE 118)	3	ZT	1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
SPLIT 50 SUPL LINE LY FR FOR AUTO. CALL DISTRIBUTION			
-48 FUSE CKT	3		1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
TRUNK LK FR FOR AUTO. CALL DISTRIBUTION			
-48 FUSE CKT	3		1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
MASTER TEST CONN FR FOR AUTO. CALL DISTRIBUTION			
-48 FUSE CKT (SEE NOTE 118)	3	ZT	1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR

(A&M ONLY)

(A&M ONLY)

CIRCUIT NOTES:
102.

FEATURE OR OPTION	PROVIDE		
	FIG.	APP OR WRG	QUANTITY
LINE LK MKR-TRK LK CONN FR FOR AUTO. CALL DISTRIBUTION			
-48 FUSE CKT	3		2 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
MKR FR FOR AUTO. CALL DISTRIBUTION			
-48 FUSE CKT (SEE NOTE 118)	1	ZT	3 PER FR
-48 AND +130 FUSE ALARM CKT	5		1 PER FR
+130 FUSE CKT	9		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 TEST BAT. CKT	13		1 PER FR
+130 FR TEST BAT. CKT	15		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
ALARM LAMP CKT	31		1 PER FR
ALARM RELEASE KEY CKT (SEE NOTE 124)	32		1 PER FR
FR CONN REL FR FOR AUTO. CALL DISTRIBUTION			
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
+130 FR TEST BAT. CKT	15		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
TEST ACCESS FR FOR AUTO. CALL DISTRIBUTION			
-48 FUSE CKT (SEE NOTES 118 & 127)	3	ZJ,ZN	1 PER FR
-48 FUSE CKT (SEE NOTE 118)	3	ZT	1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
MAKE BUSY LAMP CKT	21		1 PER FR
TALKING BAT. FILTER CKT	24	ZM	1 PER FR
MASTER TEST FR JACK BAY FOR AUTO. CALL DISTRIBUTION			
-48 FUSE CKT	3		1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
HAND SET	52		1 PER FR
DISTRIBUTOR AND SCANNER ETS FR			
-48 FUSE CKT	3	N,ZT,ZN	2 PER FR
-48 FUSE ALARM CKT	4	R	1 PER FR
GRD FEEDER CKT	10		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
TALK BAT. FILTER CKT	24	ZM	2 PER FR
ALARM RELEASE KEY CKT (SEE NOTE 124)	32		1 PER FR

(MFR DISC) (SEE NOTE 126)

CIRCUIT NOTES:
102.

FEATURE OR OPTION	PROVIDE		
	FIG.	APP OR WRG	QUANTITY
TRANSATOR ADMINISTRATION AND TEST FR			
-48 FUSE CKT	3		2 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
+130 FR TEST BAT. JACK CKT	15		1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
SPARE JACK CKT	16		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
ROUTE DISTRIBUTOR FR			
-48 FUSE CKT (SEE NOTE 116)	3		4 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
FUSE ALARM AND FUSE GUARD LAMP CKT	86		1 PER FR
FUSE ALARM CKT	87		4 PER FR
ALARM RELEASE KEY CKT (SEE NOTE 124)	32		1 PER FR
GRD FEEDER CKT	10		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
SPARE JACK CKT	16		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
SUPL ROUTE DISTRIBUTOR FR			
-48 FUSE CKT (SEE NOTE 116)	3		3 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
FUSE ALARM AND FUSE GUARD LAMP CKT	86		1 PER FR
FUSE ALARM CKT	87		3 PER FR
ALARM RELEASE KEY CKT (SEE NOTE 124)	32		1 PER FR
GRD FEEDER CKT	10		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
SPARE JACK CKT	16		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
ROUTE TRANSLATOR FR			
-48 FUSE CKT (SEE NOTES 116, 117 & 118)	3	ZT,ZN	2 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
-48 AND +130 FUSE ALARM CKT	5		2 PER FR
TROUBLE RECORDING TIMING LAMP CKT	85		2 PER FR
ALARM RELEASE KEY CKT (SEE NOTE 124)	32		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
SPARE JACK CKT	16		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
GRD FEEDER CKT	89		2 PER FR
-48 TALKING BAT. FILTER CKT	24	ZM,ZS	2 PER FR
TRANSLATOR, ADMINISTRATION AND TEST REMOTE CONT JACK CKT	88		1 PER FR
-48 FUSE CKT (SEE NOTE 116 & 118)	3	ZT	2 PER FR
AUTO. RANGE EXTENSION TEST FR			
-48 FUSE CKT (SEE NOTE 110)	3	ZT	1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
GRD FEEDER CKT	10		1 PER FR
FR LINE TELEPHONE	17		1 PER FR

(MFR DISC) (SEE NOTE 125)

(MFR DISC)

(MFR DISC)

CIRCUIT NOTES:
102.

FEATURE OR OPTION	PROVIDE		
	FIG.	APP OR WRG	QUANTITY
REMOTE OFFICE TEST FR			
-48 FUSE CKT (SEE NOTE 118)	3	ZT	1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
REMOTE CONT JACK CKT	19		1 PER FR
FOR TRK CONT FR (AMA-MTR)			
-48 FR TEST BAT. CKT	13		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
SPARE JACK CKT	16		1 PER FR
GRD FEEDER CKT	10		1 PER FR
ALARM RELEASE KEY CKT	45		1 PER FR
MASTER TEST REMOTE CONT JACK CKT	19		1 PER FR
AUTO. PROG TRK TEST REMOTE CONT JACK CKT	64		1 PER FR
-48 FUSE CKT	90		5 PER FR
-48 FUSE ALARM CKT	91		1 PER FR
-48 FUSE AND FUSE ALARM CKT	65	ZV	5 PER FR
FUSE ALARM CKT	405		1 PER FR
AUX ROUTE PROG FR			
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
REMOTE CONT JACK CKT	19		1 PER FR
FOR 2-BAY BASIC LINE LINK FR OR SUPL 100 LINE LINK FR			
-48 FUSE CKT	3	ZT	2 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
FOR 1 BAY BASIC LINE LINK FR			
-48 FUSE CKT	3	ZT	1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
FOR WIDEBAND TRK LINK FR			
-48 FUSE CKT (SEE NOTE 120)	3	ZT	2 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
GRD FEEDER CKT	10		1 PER FR

CIRCUIT NOTES: (CONT)

FEATURE OR OPTION	PROVIDE		
	FIG.	APP OR WRG	QUANTITY
FOR TRK LK CONN FR OR SUP. TRK LK CONN FR			
-48 FUSE CKT	3		2 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
SPARE JACK CKT	16		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
GRD FEEDER CKT	10		1 PER FR
FOR TRK TEST REG FR			
-48 FUSE CKT (SEE NOTE 118)	3	ZK	1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
+130 FR TEST BAT. JACK CKT	15		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
FOR PLANT REG CABINET			
-48 FUSE CKT	3		2 PER CABINET
-48 FUSE ALARM CKT	4		1 PER CABINET
GRD FEEDER CKT	10		1 PER CABINET
-48 FR TEST BAT. CKT	13		1 PER CABINET
FOR MASTER TEST CONN FR, SUPL MASTER TEST CONN FR AND MASTER TEST CONN FR FOR DIAL TONE MARKERS			
-48 MASTER TEST CONN FR	3		3 PER FR
FUSE ALARM SUP. DIAL TONE CKT	3		1 PER FR
GRD FEEDER TEST CONN FR	10		1 PER FR
FEEDER SUP. DIAL TONE CKT	10		1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
FOR AUXILIARY TRUNK LINK OR FOR TRUNK LINK FR			
-48 FUSE CKT	3	ZT	1 EACH
-48 FUSE ALARM CKT	4		PER TRK
AUTOMATIC PROGRESSION TRK TEST REMOTE CONTROL JACK CKT	64		LINK ONLY
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
FOR LINE CLASS OF SERVICE FR			
-48 FUSE CKT	3	ZT	2 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR

CIRCUIT NOTES: 102.

FEATURE OR OPTION	PROVIDE		
	FIG.	APP OR WRG	QUANTITY
FOR MKR WIDEBAND FR			
-48 FUSE CKT	3		1 PER MKP
-48 FUSE ALARM CKT	4		1 PER MKP
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
+130 FR TEST BAT. CKT	15		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
SPARE JACK CKT	16		1 PER FR
ALARM RELEASE KEY (SEE NOTE 124)	92		1 PER FR
FUSE ALARM & FUSE GUARD LAMP CKT (SEE NOTE 119)	59		1 PER FR
FOR SUPL 200 LINE LINK FR			
-48 FUSE CKT	3		1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JK CKT	19		1 PER FR
FOR WIDEBAND LINE CONTROL FR			
-48 FUSE CKT	3	ZT	1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
FOR WIDEBAND JUNCTION LINK & EXTENSION JUNCTION LINK FR			
-48 FUSE CKT	3		1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
GRD FEEDER CKT	10		1 PER FR
FOR WIDEBAND LINE LINK OR WIDEBAND SUPL LINE LINK FR			
-48 FUSE CKT	3		2 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
GRD FEEDER CKT	10		1 PER FR
FOR WIDEBAND LINE LINK-TRUNK LINK CONNECTOR FR			
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
FOR WIDEBAND REMOTE SWITCH SIGNAL CONT FR			
-48 FUSE CKT	3		1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR

(MFR DISC)

CIRCUIT NOTES: 101.

FEATURE OR OPTION	PROVIDE		
	FIG.	APP OR WRG	QUANTITY
FOR 1-BAY CALL WAITING LINK FR			
-48 FUSE CKT	3	ZT	1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
+130 FR TEST BAT. CKT	15		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
MAKE BUSY LAMP CKT	21		1 PER FR
FOR 2-BAY CALL WAITING LINK FR			
-48 FUSE CKT	3	ZT	1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
+130 FR TEST BAT. CKT	15		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
MAKE BUSY LAMP CKT	21		1 PER FR
FOR 190-LINE BASIC LINE LINK FR			
-48 FUSE CKT	3	ZT	2 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
MAKE BUSY LAMP CKT	21		1 PER FR
FOR 300-LINE OR 600-LINE SUPL LINE LINK FR			
-48 FUSE CKT	3	ZT	2 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
FOR FOREIGN AREA TRNSL CONN FR (EXPANDED MKR OR)			
-48 FUSE CKT	3		8 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		2 PER FR
ALARM RELEASE KEY CKT (SEE NOTE 124)	32		1 PER FR
-48 FUSE ALARM CKT	58		8 PER FR
FUSE ALARM AND FUSE GUARD LAMP CKT	59		1 PER FR
FOR LINE LINK AND NO. 60 CONN FR			
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR

CIRCUIT NOTES: 103.

FEATURE OR OPTION	PROVIDE		
	FIG.	APP OR WRG	QUANTITY
FOR 2ND SUPL LINE LK CONN FR			
-48 FUSE CKT	3		2 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
FOR 2ND SUPL MASTER TEST CONN FR (MODIFIED OFFICE)			
-48 FUSE CKT	3		1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
FOR 2ND SUPL MASTER TEST CONN FR (NEW OFFICE)			
-48 FUSE CKT	3		1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
FOR ORIGINATING REG AND INCOMING REG MKR CONN FR			
-48 FUSE CKT	3		2 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
FOR 2ND SUPL OUTGOING SUP CONN FR			
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
FOR 2ND SUPL TRUNK LK CONN FR			
-48 FUSE CKT	3		2 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
FOR 1000 PRETRANSLATOR FR			
-48 FUSE CKT	92		2 PER FR
-48 AND +130 FUSE ALARM CKT	3		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
SPARE JACK CKT	16		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
GRD FEEDER CKT	10		1 PER FR
TRUNSEL RECORDER TIMING LAMP CKT	11		1 PER PRT
ALARM RELEASE KEY CKT (SEE NOTE 124)	32		1 PER FR

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Sheet 50B

MISCELLANEOUS CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

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CIRCUIT NOTES: (CONT)

FIG.	APP OR WRG	PROVIDE	
		QUANTITY	
FOR INCOMING REG PRETRANSLATOR FR			
-48 FUSE CKT	2	ZU	1 PER PRT
-48 AND +130 FUSE ALARM CKT	8		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
SPARE JACK CKT	16		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
GRD FEEDER CKT	10		1 PER FR
TROUBLE RECORDER TIMING LAMP CKT	11		1 PER PRT
ALARM RELEASE KEY CKT (SEE NOTE 174)	32		1 PER FR
FOR ORIG REG "TOUCH-TONE" REC FR			
FOR ORIGINATING REG "TOUCH-TONE" REC AND CONT FR			
-48 FUSE CKT (SEE NOTES 117, 118)	3	ZJ, ZN	1, 2 OR 3 PER FR AS REQD
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
TALKING BAT. FILTER CKT	24	ZM	1 PER FR
TEST JACK CKT FOR USE WITH ORIGINATING REG PUSHBUTTON RECEIVER	62		1 PER FR
ORIGINATING REGISTER TEST JACK CKT	61		1 PER FR
FOR SUPPLEMENTARY CALL WAITING LINK FR			
-48 FUSE CKT	3	ZT	1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
+130 FR TEST BAT. JACK CKT	15		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
FOR BIT-STREAM LINK FR			
-48 FUSE CKT	3		2 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
FOR BIT-STREAM JUNCTION LINK OR SUPL JUNCTION LINK FR			
-48 FUSE CKT	3		1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
FOR TRUNK CONTROL CALL IDENTIFY INDEXER SUP FR			
AMA-MTR			
FR LINE TEL JK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JK CKT	19		"
SPARE JK CKT	16		"
GRD FEEDER CKT	10		"
-48 FUSE CKT	3		"
-48 FUSE ALARM CKT	4		"
-48 FUSE CKT	65		"
-48 ALARM CKT	405		"
AUTO PROG TRK TST CONT JK CKT	64		"
ALARM RELEASE KEY CKT	49		"
-48 FR TST BAT CKT	13		1 PER FR

CIRCUIT NOTES:

FIG.	APP OR WRG	PROVIDE	
		QUANTITY	
FOR BIT-STREAM TRUNK LINK FRAME			
-48 FUSE CKT	3		2 PER FR
-48 FUSE CKT	3	ZT	1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
FOR INCOMING MULTIFREQUENCY REGISTER FR			
-48 FUSE CKT	3	ZT	2 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
TEST JACK CKT FOR INCOMING REGISTERS	62		1 PER FR
FOR MULTIFREQUENCY PULSING RECEIVER FR			
-48 FUSE CKT	3	ZT	2 PER FR
-48 FUSE ALARM	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
TEST JACK CKT FOR INCOMING REGISTERS	62		1 PER FR
FOR ACD TEST FRAME			
-48 FUSE CKT	3	ZT	
-48 FUSE ALARM CKT	7		
-48 FR TEST BAT. CKT	13		
FR LINE TELEPHONE JACK CKT	17		
SPARE JACK CKT	16		
GRD FEEDER CKT	10		
ACD TEST FR REMOTE CONT JACK CKT	19		
ACD TEST BAY			1 PER BAY
FOR ACD TROUBLE DISPLAY BAY			
-48 FUSE CKT	3	ZT	
-48 FUSE ALARM CKT	7		
-48 FR TEST BAT. CKT	13		
ACD TEST FR REMOTE CONT JACK CKT	19		
RCDR POWER SUPPLY CKT	12		
TELEPHONE JACK CKT	51		
SPARE JACK CKT	16		
GRD FEEDER CKT	10		
ACD TROUBLE BAY			1 PER BAY
FOR ACD JACK BAY			
-48 FUSE CKT	3	ZT	
-48 FUSE ALARM CKT	7		
GRD FEEDER CKT	10		
HANDSET	52		
-48 FR TEST BAT. CKT	13		
SPARE JACK CKT	16		
FR LINE TEL JK CKT	17		
ACD TEST FR REMOTE CONT JACK CKT	19		
ACD JACK BAY			1 PER BAY
FOR ETS-FDI FR			
-48V FR TEST BAT. CKT	406		1 PER FR
-48V TST JK CKT	407		2 PER FR
GRD TST JK CKT	408		2 PER FR
SPARE JK CKT	16		1 PER FR
FR LINE TEL JK CKT	17		1 PER FR

CIRCUIT NOTES:

FIG.	APP OR WRG	PROVIDE	
		QUANTITY	
FOR ACD GATING FRAME			
-48 FUSE CKT	3	ZT	3 PER FR
-48 FUSE ALARM CKT	4	ZJ, ZN	1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TEL JACK CKT	17		1 PER FR
MA TEST FR REMOTE CONT JK CKT	19		1 PER FR
-48 TALKING BAT. FILTER CKT	24	ZM	1 PER FR
FOR RELAY RACK FR FOR MOUNTING ACD ANN CONT UNITS			
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TEL JACK CKT	17		1 PER FR
FOR SUPPLEMENTARY AUTOMATIC CALL DISTRIBUTION LINE LINK MARKER-TRUNK LINK CONNECTOR FR			
-48 FUSE CKT	3	ZT	1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GROUND FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JK CKT	19		1 PER FR
FOR ROTL TRK MAKE BUSY FR OR ROTL TRK CONT FR			
-48 FUSE CKT	3	ZT	1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
REMOTE CONT JACK CKT	19		1 PER FR
FOR REMOTE OFFICE TEST LINE REGISTER FR			
-48 FUSE CKT	3	ZT	1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
REMOTE CONT JACK CKT	19		1 PER FR
FOR AUTOMATIC CALL DISTRIBUTION OPERATOR POSITION CONTROL FRAME AT REMOTE LOCATION			
-48 FUSE CIRCUIT FOR ACD OPERATOR POSITION CONTROL FRAME	403		ONE FOR THE FIRST ACD OPERATOR POSITION CONTROL FRAME IN A CHIEF OPERATOR GROUP
ALARM BATTERY SUPPLY FUSE			
		ZV	PROVIDED FOR THE FIRST ACD OPERATOR POSITION CONTROL FRAME IN A CHIEF OPERATOR GROUP
FOR SINGLE BAY RELAY RACK FR FOR MOUNTING BILLING DATA TRANSMITTER UNITS			
-48 FUSE CKT	3	ZT	2 PER FR
-48 FUSE ALM CKT	4		1 PER FR
-48 FR TEST BAT CKT	13		1 PER FR
SPARE JK CKT	16		1 PER FR
FR LINE TEL JK	17		1 PER FR
MASTER TST FR REMOTE CONT JK CKT	19		1 PER FR
GRD FEEDER CKT	10		1 PER FR

CIRCUIT NOT. 2:

FIG.	APP OR WRG	PROVIDE	
		QUANTITY	
FOR DIGIT REGISTER FRAME FOR ACD			
-48 FUSE CKT (SEE NOTES 117, 118, 126)	3	ZJ, ZN	2 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JK CKT	19	ZM	1 PER FR
TALK BAT. FILTER CKT	24	ZM	1 PER FR
FOR STUCK SENDER TRUNK IDENTIFIER FRAME			
-48 FUSE CKT	3		1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JK CKT	19		1 PER FR
FOR BASIC 290 LINE, LINE LK FR FOR AUTOMATIC CALL DISTRIBUTION OR SPLIT 100 LINE SUPPLEMENTARY LINE LINK FR FOR AUTOMATIC CALL DISTRIBUTION			
-48 FUSE CKT	3	ZT	1 PER FR
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JK CKT	19		1 PER FR
FOR SINGLE-BAY FRAME FOR AUTOMATIC CALL DISTRIBUTION UNITS			
-48 FUSE CKT (SEE NOTE 117)	3	ZJ, ZN	1 OR 2 PER FR AS REQD
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		1 PER FR
+130 FR TEST BAT. CKT	15		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR
MAKE BUSY LAMP CKT	21		1 PER FR
-48 TALKING BAT. FILTER CKT	24	ZM	1 PER FR
-48 FR TEST BAT CKT	13		1 PER FR
FOR DOUBLE-BAY FRAME FOR AUTOMATIC CALL DISTRIBUTION UNITS			
-48 FUSE CKT (SEE NOTE 117)	3	ZJ, ZN	2 TO 5 AS REQD
-48 FUSE ALARM CKT	4		1 PER FR
GRD FEEDER CKT	10		2 PER FR
-48 FR TEST BAT. CKT	13		1 PER FR
+130 FR TEST BAT. CKT	15		1 PER FR
SPARE JACK CKT	16		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
MASTER TEST FR OR OFFICE TEST FR REMOTE CONT JACK CKT	19		2 PER FR
INCOMING TRUNK TEST JACK CKT	20		1 PER FR
MAKE BUSY LAMP CKT	21		1 PER FR
PERMANENT SIGNAL ALARM LAMP	22		1 PER FR
TRUNK TEST JACK	23		1 PER FR
-48 TALKING BAT. FILTER CKT	24	ZM	2 PER FR
INCOMING TRUNK TEST JACK CKT FOR MANUAL OUTGOING TRUNK TEST CKT	50		1 PER FR

SD-25574-01-11C

MISCELLANEOUS CIRCUIT

SD-25574-01-11C

BELL TELEPHONE LABORATORIES INCORPORATED

6S

DRAWING ISSUE

360

370

390

400

ISSUE

533

CIRCUIT NOTES: (CONT)

104. ON ISSUE 8D THE DESIGNATION OF THE 1-1/3 AMP FUSES IN FIGURES 1, 2, AND 3 WAS CHANGED FROM 1-1/3A TO INDICATE FUNCTIONAL USE OF THE FUSES.

105. PROVIDE C AND J OPTIONS FOR USE WITH 70 TYPE FUSES. PROVIDE H AND K OPTIONS FOR USE WITH 35 TYPE FUSES. (MFR DISC)

106. WHEN THE MARKER CAMA BAYS ARE LOCATED IN THE SAME ROW OF FRAMES AS THE FOREIGN AREA TRNSL CONN FRAMES, FUSE ALL THE EVEN MARKER CIRCUITS FOR THE FOREIGN AREA TRNSL CONN AND CAMA BAYS ON ONE ROW FEEDER AND ALL THE ODD MARKER CIRCUITS FOR THE FOREIGN AREA TRNSL CONN AND CAMA BAYS ON THE OTHER ROW FEEDER.

107. NETWORK VALUES

NO.	NETWORK		RESISTANCE IN OHMS	CAPACITANCE IN UF
	CODE			
1	185A		470	0.11
2	186A		120	0.3

109. WHEN SENDERS ARRANGED FOR COIN ZONE DIALING ARE TO BE TESTED, OPTION ZJ MUST BE PROVIDED.

109. PRIOR TO ISSUE 15D, ONLY ONE FIG. 4 WAS SPECIFIED FOR THE POWER, RINGING, AND TONE DISTRIBUTION FR.

110. IF JOB RECORDS DO NOT SPECIFY F OPTION FOR FIGURES 6 AND 7, NONE WAS SHOWN.

111. OPTIONS H AND K WERE RATED MFR DISC ON ISSUE 13D AND ARE RE-RATED STD ON ISSUE 16D.

112. PROVIDE H AND K OPTIONS FOR USE WITH 35 TYPE FUSES. PROVIDE F OPTION FOR USE WITH 70 TYPE FUSES. THIS NOTE IS ADDED ON ISSUE 16D.

113. WHERE PERSON TO PERSON COLLECT SPECIAL AND STATION PAID TRAFFIC IS ROUTED TO TANDEM OVER A COMMON TRUNK GROUP, ZD OPTION MUST BE PROVIDED. (A&M ONLY)

114. OPTION ZI MUST BE PROVIDED IN OFFICES ARRANGED FOR MULTI-LEVEL PREEMPTION.

115. THE FOLLOWING FIGURES MUST BE PROVIDED FOR PICTUREPHONE (SPL)

FEATURE OR OPTION	PROVIDE		
	FIG.	APP OR WRG	QUANTITY
FOR WIDEBAND LINK FR AND EXTENSION WIDEBAND LINK FR			
-4B FUS. CKT	3		1 PER FR
-4B FUSF ALARM CKT	4		1 PER FR
-4B FR TEST BAT. CKT	13		1 PER FR
FR FEEDER CKT	10		1 PER FR
FR LINE TELEPHONE JACK CKT	17		1 PER FR
SPARE JACK CKT	16		1 PER FR
MASTER TEST FR REMOTE CONT JACK CKT	19		1 PER FR

116. FIGURES 3 ASSOCIATED WITH EVEN-NUMBERED OR ODD-NUMBERED ROUTE TRANSLATOR OR ROUTE DISTRIBUTOR CIRCUITS SHALL BE POWERED BY EVEN-NUMBERED OR ODD-NUMBERED AISLE FEEDERS RESPECTIVELY.

117. OPTION ZN IS PROVIDED ON ONLY ONE OF THE FIGURES 3 ASSOCIATED WITH EACH FIGURE 24.

118. FRAMES REQUIRING DIODES (SHOWN AS OPTIONS ZK, A&M ONLY, ZJ, AND ZI) FOR PROTECTION OF APPARATUS AGAINST INDUCTIVE SURGES RESULTING FROM FUSE FAILURE, MUST BE PROVIDED WITH OPTION ZK (A&M ONLY) OR ZI IF NOT EQUIPPED WITH A TALK BATTERY FILTER. IF THESE FRAMES ARE EQUIPPED WITH A FILTER ANY ONE OF THE OPTIONS ZK (A&M ONLY), ZI OR ZJ MUST BE PROVIDED AND OPTION ZJ IS PREFERRED.

119. MULTIPLE TO OTHER MARKER (EQUIPPED FOR WIDEBAND) ON THE SAME FRAME.

120. PROVIDE OPTION ZI ONLY WITH THE FIGURE 3 SERVING THE VIDEO SUPERVISORY SIGNAL SUPPLY CIRCUIT.

121. PRIOR TO ISSUE 4D, FIGURE 57 WAS PROVIDED ONE PER MAXIMUM 6 PREFERENCE CABINETS.

CIRCUIT NOTES:

122. OPTION ZV IS REQUIRED FOR THE LAMA-MTR TRANSVERTER FRAME, MASTER TIMING FRAME, AND TRUNK CONTROL FRAME.

123. PROVIDE ZW OPTION WITH FIG. 46 WHEN FIGURES 98, 99 AND 100 ARE PROVIDED (PAPER JAM DETECTOR).

124. THIS FEATURE SHALL BE WIRED PER Z OPTION WHERE CONNECTION TO THE ALARM SENDING CKT OR THE INTERFACE AND CONTROL CKT IS NOT REQUIRED.

125. FIGURES 65 AND 66 FOR MASTER TIMING FRAME (AMA-MTR) AND FIGURES 65 AND 405 FOR TRUNK CONTROL FRAME (AMA-MTR) SHALL BE PROVIDED WHEN OPTION Z0 IS PROVIDED IN FIG. 1 OF ALARM CKT 5D-25671-01 ASSOCIATED WITH LAMA-MTR CIRCUITS.

126. PRIOR TO ISSUE 51B, OPTION ZT WAS FURNISHED.

127. FIG. 24 AND OPTIONS ZH, ZJ AND ZN WERE ADDED ON ISSUE 51B.

EQUIPMENT NOTES:

201. FOR MESSAGE REG FR, WIRING FROM ALARM BARS IN FIG. 54 SHALL BE 14 GA, STRANDED PER KS-5482.

202. SEPARATE SPARE JACK MULTIFILES PER MARKER GR SHALL BE RUN (A&M TO THE MAIN DISTRIBUTING FR FOR EACH OF THE FR GROUPS ONLY) LISTED IN THE FOLLOWING TABLE:

(SEE NOTE 211)

GR	FRAMES IN GR
1	LINE LINK, LINE LINK CONN, LINE LINK MARKER CONN
2	TRUNK LINK, EXTENSION TRUNK LINK, SUPL TRUNK LINK CONN, TRUNK LINK CONN CONT
3	ORIGINATING REG, ORIGINATING REG MARKER CONN, AUX ORIGINATING REG MARKER CONN, ORIGINATING REG LINE MEMORY
4	INCOMING REG, INCOMING REG MARKER CONN, INCOMING REG LINK, MULTIFREQUENCY RECEIVER, TANDEM INCOMING REVERTIVE PULSING REG
5	OUTGOING SDR, OUTGOING SDR CONN, AUX OUTGOING SDR CONN, OUTGOING SDR LINK, INTERMARKER GR SDR
6	NO. GR, NO. GR CONN, NO. GR CONN CONT
7	TV, TV CONN, TRNSL, CAMA TV, CAMA TV CONN, ANI TV, ANI TV CONN, BILLING INDEXER ORIGINATING, LINE OBSERVING NO. MATCHING
8	RCDR, PERF CABINET
9	MA TEST, MA TEST CONN, MA TEST CONN (DL T MKR), SUPL MA TEST CONN, AUX MA TEST CONN, LINE INS TEST
10	MARKER (ALL TYPES), REL PK, FOR SPL MARKER REL UNITS, CAMA MARKER BAY
11	MA TIMING
12	COIN SUPV LINK
13	OFFICE INTERRUPTER
14	TRAFFIC REG
15	MESSAGE REG, REL RK WITH MESSAGE REG UNITS
16	POWER, RINGING, AND TONE DISTRIBUTION
17	ALL REL RK IN SAME AISLE
18	ALARM FR
19	PRETRANSLATOR
20	MULTIFREQUENCY CURRENT SUPPLY
21	MA OUTGOING TRUNK TEST
22	FOREIGN AREA TRNSL
23	FOREIGN AREA TRNSL CONN
24	AUTO. PROG TRUNK TEST, CAMA AUTO. PROG TRUNK TEST
25	CAMA SDR, CAMA MF REG, CAMA POS LINK

203. FURNISH FIG. 165 OR FIG. 177 IN REL RK FRAMES MOUNTING TOLL TRUNKS REQUIRING TOLL GRD.

204. IN FIGURES 140, 154, 155, 167, 179, AND 180 PROVIDE STRAPS AND OMIT CONNECTION TO ALARM SENDING CKT WHEN ALARM SENDING PANEL IS NOT PROVIDED.

205. FIGURES 112, 140, 141, 142, 155, 165, 167, 173, 177, AND 179 PROVIDE WIRING INFO FOR WHICH THERE IS NO CORRESPONDING SCHEMATIC FIG.

206. ON ISSUE 2A, FIGURES 55 AND 56, (RESTRICTED TO USE ON OFFICE INTERRUPTER FR J22752A) WERE RATED MFR DISC AND APPLICATION OF FIG. 15 ON THIS FR WAS RATED MFR DISC.

207. PRIOR TO ISSUE 3D, MULTIPLE STRAP INFO IN FIGURES 17, 19, 20, AND 23 "READ * TO OTHER JACKS IN OFFICE", IN FIGURES 16 AND 43 "IN SAME MARKER GR" WAS ADDED ON ISSUE 3D, AND IN FIG. 47 "IN SAME BUILDING 'WAS' IN THE OFFICE".

208. THIS NOTE CANCELED.

209. THIS NOTE CANCELED.

210. ON ISSUE 5D CODE CONVERSION AND PBX ALLOTTER FRAMES WERE ADDED IN TABLE A; AND IN FIG. 149, **NOTE IN NOTE 202 AND NOTES 209 AND 210 WERE ADDED.

211. PRIOR TO ISSUE 6D MULT NOTE IN FIG. 17 READ "IN SAME MARKER GR" AND IN FIG. 19 RC100 WAS SHOWN. IN NOTE 202 FRAMES IN GROUPS 19 TO 23 WERE INCLUDED IN GROUPS 3, 5, 9, AND 10 RESPECTIVELY. ON ISSUE 6D TABLES M AND K WERE ADDED AND TABLES A, D, F, H, AND J WERE RATED A&M ONLY. IN FIGURES 110 AND 111 TERMINAL 11 WAS ADDED FOR THE WIRE SPRING FRAMES, NOTE 202 WAS RATED A&M ONLY, FIGURES 151, 154, AND 155 WERE ADDED REPLACING FIGURES 118, 124, AND 140 WHICH WERE RATED MFR DISC, FIG. 141 WAS RATED MFR DISC.

EQUIPMENT NOTES:

212. PRIOR TO ISSUE 14D THE MULTIPLES FOR FIGURES 119, 122, AND 134 WERE CABLED ONLY TO REL RK FRAMES WHICH WERE EQUIPPED WITH JACKS AND LAMPS OF FIGURES 20, 23, AND 50.

213. THE REGISTERS OF FIG. 68 ARE MOUNTED IN THE CALL COUNT PROCESS CONT REG CABINET, ED-92861-01, MOUNTED NEAR THE PERFORATORS.

214. ON ISSUE 15D PUNCHINGS 60-67 IN FIGURES 132 AND 135 CHANGED TO 50-57, CAMA SD: ADDED IN FIG. 147; LEAD 34 ADDED IN FIG. 148; AR LEAD TO TROUBLE RCDR CONT CKT ADDED IN FIG. 154; FA1 LEAD MULTY REMOVED IN FIG. 159 AND TYPE D TERMINAL ASSIGNMENT 16 AND 26 ADDED, FIG. 168 ADDED; CAMA BILLING INDEXER AND TV ADDED IN TABLE E; AND TV TERMINAL M16 RATED MFR DISC AND MISC 19 ADDED IN TABLE G, TV TERMINAL M7 RATED MFR DISC AND MISC 11 ADDED; IN TABLE M RATING MFR DISC ADDED FOR ALARM FR AND OFFICE INTERRUPTER FR, A&M ONLY ADDED FOR AUX MA TEST CONN, BASIC MA TEST CONN AND MA TEST CONN DL T MARKER FRAMES; ASTERISK NOTE ADDED FOR PRETRANSLATOR FR, SOLDERLESS WIRE WRAPPING REFERENCE NOTE ADDED AT MA TIMING AND RCDR FRAMES FIGURES 169 AND 170 ADDED.

215. SEE J20155 SPEC-LIMITING CONDUCTOR LENGTH BETWEEN FRAMES AND UNITS OF NO. 5 CROSSBAR SYSTEM.

216. WHEN SOLID STATE TYPE COMPONENTS SUCH AS TRANSISTORS, DIODES, ETC. MUST BE PROTECTED FROM SURGE VOLTAGES CAUSED BY OPERATION OF A MAIN FUSE ON RELAY RACK FRAMES HAVING INDIVIDUAL TYPE FUSE BLOCK PANELS PER ED-26981-(), ZK (A&M ONLY) OR ZT OPTION SHALL BE APPLIED INSTEAD OF ZJ OPTION.

217. PROVIDE 1 FIGURE 3 FOR AUXILIARY LINE LINK FR (J27451-N) (MFR DISC) AND 2 FIGURES 3 FOR AUXILIARY LINE LINK FR (J27459-F).

218. ON ISSUE 32D, MISCELLANEOUS CIRCUITRY FOR USE WITH LINE LINK FR, SD-26030-01 AND TRUNK LINK AND EXTENSION TRUNK LINK FRAMES, SD-26032-01, IS RATED (A&M ONLY) AND (MFR DISC) RESPECTIVELY.

219. ON ISSUE 32D, APPLICATION OF FIGURE 24 ON THE OFFICE TEST FRAME WAS RATED (MFR DISC).

220. ON ISSUE 41D THE APPLICATION OF FIGURE 19 ON THIS FRAME WAS RATED (MFR DISC).

221. THE RC0, RC1, AND RC2 JACK TERMINATIONS ON THE MISCELLANEOUS TERMINAL STRIP OF THE ROTL REGISTER FRAME SHALL BE CABLED TO OTHER FRAMES IN OTHER MARKER GROUPS AS FOLLOWS:

MARKER GROUP	1ST						2ND					
	T(0)	R(0)	T(1)	R(1)	T(2)	R(2)	T(0)	R(0)	T(1)	R(1)	T(2)	R(2)
CONNECT LEAD TO												
TERMINAL NBR	43	33	23	13	26	16	23	13	43	33	26	16
FOR RC JK	0				2		1		0		2	
MARKER GROUP	3RD											
CONNECT LEAD TO	T(0) <th>R(0)</th> <th>T(1)</th> <th>R(1)</th> <th>T(2)</th> <th>R(2)</th> <td colspan="6"></td>	R(0)	T(1)	R(1)	T(2)	R(2)						
TERMINAL NBR	26	16	23	13	43	33						
FOR RC JK	2					0						

SINCE ALL MARKER GROUPS MAY NOT HAVE FRAMES WHICH CONTAIN A RC2 JACK, THE RC2 JACK TERMINATIONS SHALL BE CABLED TO THE NEAREST AISLE WHICH CONTAINS RC JACK TERMINATIONS ASSOCIATES WITH THE DESIRED MASTER TEST FRAME.

222. FIGURE 12 IS REQUIRED ON THIS BAY ONLY WHEN THE RECORDER IS PEDESTAL MOUNTED.

223. THE RESISTANCE OF THE MRS-T, MRS-R LEADS, BETWEEN ALL OTHER FUSE PANELS AND THE SUBSCRIBER MESSAGE REGISTER CIRCUIT SHALL NOT EXCEED 1 OHM EACH.

DRAWING ISSUE
28B
29D LP
30D LP
32D
34D

ISSUE
54A

SD-25574-01-12

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.

302. LEAD LK IS MULTIPLIED TO OTHER CIRCUITS IN SAME AISLE EXCEPT WHERE INTERFACE AND CONTROL CKT. SD-28075-01, IS PROVIDED AND IS NOT EQUIPPED WITH OPTION X. LEAD LK IS THEN MULTIPLIED TO OTHER CIRCUITS IN THE SAME AISLE OF SAME MARKER GROUP.

OPTION INDEX

APP OR WRG	RATED ON ISSUE	REFERENCE NOTES	LOCATION
Z	STD 1		2108, 21E4, 26H3
Y	STD 1		18H3
X	STD 1		20G4
W	MD 29D		20G4
V	MD 29D		20G4
U	STD 7B		22G4, 22H4
T	STD 1		22G4, 22H4
S	MD 7B		22G4, 22H4
R	STD 1		17E6, 17E8, 17F7, 18B3, 18B7, 18C1, 18C4, 18C6, 18C7, 18C8, 18D1, 18D2, 18E8, 18F5, 18F6, 18F7, 18F8, 18G1, 18G2, 18G6, 18G7, 18H1, 18H3, 21H1, 24A1, 24A2, 24B2, 24B3
Q	MD 8D		17F6-F8, 18B3, 18B7, 18C0, 18C4, 18C6, 18C7, 18C8, 18D2, 18E6, 18E8, 18F1, 18F5, 18F7, 18G0, 18G2, 18G3, 18G7, 18H2, 21H1, 24B1, 24B2, 24B3
P	STD 8D		17F6-F8, 18B3, 18B7, 18C0, 18C4, 18C6, 18C7, 18C8, 18D2, 18E6, 18E8, 18F1, 18F5, 18F7, 18G0, 18G2, 18G3, 18G7, 18H2, 21H1, 24B1, 24B2, 24B3
N	STD 11B		17G8
M	STD 11B		17G8
K	STD 11B	105, 111, 112	17C0, 17C5
J	STD 11B	105	17C0, 17C2, 17C5, 17C6, 17F8, 18A3
I	MD 14D		17C0, 17C2, 17C5, 17C6, 17F8, 17G0, 17G2, 17G4, 18A3, 18A7, 18F2, 23F7, 23G7
H	STD 13D	105, 111, 112	17C5, 17F4, 17G1, 17G4, 23F7
G	STD 13D	105, 111, 112	17C5, 17C6, 17F4, 17G0, 17G2, 17G4, 23F7, 23G7
F	MD 14D		17C0, 17C2, 17C5, 17C6, 17F8, 17G0, 17G2, 17G4, 18A3, 18A7, 18F2, 23F7, 23G7
E	STD 14D		17B1
D	MD 14D		17B1
C	STD 14D		23F8
B	MD 14D		23F8
A	STD 14D		23F8
ZA	STD 14D		23F8
ZB	STD 15D	108	24G9
ZC	STD 20D		24D9

APP OR WRG	RATED ON ISSUE	REFERENCE NOTES	LOCATION
ZD	STD 21D	113	24D9
ZE	MD 23B		20B8, 20C8
ZF	A&M 34D	102	20B8, 20C8
ZG	STD 22D	102	20B8, 20C8
ZH	STD 1		22B5, 22B6, 22F3, 22F5, 22G3, 22G4, 22G5
ZI	MD 25D		22B5, 22B6, 22F3, 22F5, 22G3, 22G4, 22G5
ZJ	STD 25D		22B5, 22B6, 22F3, 22F5, 22G3, 22G4, 22G5
ZK	STD 26D	114	25G6
ZL	STD 27B	102, 216	17B7
ZM	MD 27B	102, 216	17B2, 17B7, 27E8
ZN	STD 27B	102	20G4
ZO	MD 29D		17G5
ZP	STD 29D	102	17C5
ZQ	MD 29D	102, 117	26B7
ZR	STD 29D		26A7
ZS	MD 29D		26E6
ZT	STD 30D		26B8, 26D8
ZU	STD 29D	102	20H5
ZV	STD 32D	102, 120	27E8
ZW	STD 39D	102	17E4
ZX	STD 44D		25D2, 28C/FO

ELECTROLYTIC CAPACITOR TEST REQUIREMENTS (1 KC TEST, USING 73A TEST SET, BETWEEN 600 OHM LINES)					
OVER-ALL LOSSES					
TEST	TEST CONNECTIONS		MIN LOSS IN DB	REMARKS	
	TEST SET TERMINALS	CONNECT TO			
(C) CAP.	3-4	a-b	8.3	REMOVE FUSES (C) & (15A)	
INDIVIDUAL APPARATUS LOSSES					
APPARATUS	DESIG	CODE	TEST CONNECTIONS	MIN LOSS IN DB	REMARKS
CAPACITOR	C	KS-14124	3-4	a-b	8.3 REMOVE FUSES (C) & (15A)
CAUTION DISCHARGE CAPACITOR IN ACCORDANCE WITH THE A200 SECTION BSP COVERING THE TESTING OF ELECTROLYTIC CAPACITORS. DO NOT SHORT CIRCUIT CAPACITORS.					

DRAWING ISSUE
28B
29D LP
30D LP
32D
34D
39D

ISSUE 52B

MISCELLANEOUS CIRCUIT	SD-25574-01-13
BELL TELEPHONE LABORATORIES INCORPORATED	6S

HIGGINS 4465

TABLE A (A&M ONLY)
 REPLACED BY TABLE M
 SEE FIGURES 103, 114, 116 AND 118
 (SEE NOTE 211)

NAME OF FRAME	TS DESIG	PUNCHING DESIG										RATING	
		(TEL) JK		(3 rd) JK		(RC) JK		MISC		MFR DISC			
		MJ	T	R	T	R	T	R	S	T	R		
ALARM FR	NONE	1	2	3	4	5	6	7	8	9	10		
AUXILIARY MASTER TEST CONN	MISC	20	21	22	23	24	25	26	27	28	29		
AUXILIARY OUTGOING SENDER CONN	BASIC	1*	2	3	4	5	6	7	8	9	10		
AUXILIARY REG MARKER CONN	M	1*	2	3	4	5	6	7	8	9	10		
COIN SUPERVISORY LINK	BASIC	CS(8)	51	52	53	54	55	56	57	58			
	SUPL	CS(9)	51	52	53	54	55	56	57	58	50 51		
EXTENSION TRUNK LINK	M	4	29	45	46	47	48	42	43	44	40 41	MFR DISC	
INCOMING REG	MA	1	2	3	4	5	6	7	8	9	10		
INCOMING REG LINK	BASIC	REG 7	76	77	78	79						MFR DISC	
		REG 8	79				76	77	78				
		REG 9								78	79		
INCOMING REG LINK	BASIC AUXILIARY OR SUPL	MISC	12	1	2	3	4	5	6	7	9	10	
INCOMING REG MARKER CONN	BASIC	M	1	2	3	4	5	6	7	8	9	10	
INTERMARKER GROUP SENDER	SUPL	M	1	2	3	4	5	6	7	8	9	10	
INTERRUPTER	MA	1	2	3	4	5	6	7	8	9	10		
LINE INSULATION TEST	MISC A	100	93	94	95	96	97	98	99	100	101		
LINE LINK	BASIC - 200 LINES	L	90	91	92	93	94	95	96	97	98	99	
	SUPL - 200 LINES	MISC	90	91	92	93	94	95	96	97	98	99	
	SUPL - 100 LINES	M	90	91	92	93	94	95	96	97	98	99	
LINE LINK CONN	BASIC	M	1	2	3	4	5	6	7	8	9	10	
	SUPL	M	1	2	3	4	5	6	7	8	9	10	
LINE LINK MARKER CONN	MISC	00	01	02	03	04	05	06	07	08	09		
MANUAL OUTGOING TRUNK TEST FR	MISC A	36*	07	17	27	37							
	MISC C						01	11	21	31	41		
MARKER	CODE CONVERSION AND ROUTE RELAY	CVA MISC	19*	4	3	2	1	7	6	5	9	8	
	CLASS OF SERVICE RELAY	SA MISC	19*	4	3	2	1	7	6	5	9	8	
	COMMON EQUIPMENT	CA MISC	19	4	3	2	1	7	6	5	9	8	
	TANDEM CODE SCREEKING	NONE	1*	2	3	4	5	6	7	8	9	10	
	TRANSLATOR AND ROUTE RELAY	RA MISC	19*	4	3	2	1	7	6	5	9	8	
	TRUNK FR TEST LEAD CONN	MISC	19*	4	3	2	1	7	6	5	9	8	
	SUPL ROUTE RELAY BAY	SRA MISC	19*	4	3	2	1	7	6	5	9	8	
MASTER TEST	AUTOMATIC MONITOR BAY	MTF B	3	12	13	14	15	16	17	18	10	11	
	AUXILIARY REG AND SENDER TEST BAY	MISC A	41	12	13	14	15	16	17	18	10	11	
	CONTROL BAY	MISC	4										
	RECORDER BAY	MISC A	69	62	63	64	65	66	67	68	60	61	
	REG AND SENDER TEST BAY	MISC A	3	12	13	14	15	16	17	18	10	11	
MASTER TEST CONN	MISC	20	21	22	23	24	25	26	27	28	29		
MASTER TEST CONN FOR DIAL TONE MARKERS	MISC	20	21	22	23	24	25	26	27	28	29		
MASTER TIMING	E	29	1	2	3	4	5	6	7	15	16		
MESSAGE REG FR	NONE	20	21	22	23	24	25	26	27	28	29		
MF CURRENT SUPPLY FR	NONE	1	2	3	4	5	6	7	8	9	10		
MF RECEIVING FR	NONE	1	2	3	4	5	6	7	8	9	10		
NO. GROUP	D	60*	52	53	54	55	56	57	58	50	51		
NO. GROUP CONN	BASIC	C(0)	05	06	07	08	09	15	16	17	18	19	
	SUPL	C(6)	05	06	07	08	09	15	16	17	18	19	
ORIGINATING REG	MA	1	2	3	4	5	6	7	8	9	10		
ORIGINATING REG MARKER CONN	BASIC	M	1	2	3	4	5	6	7	8	9	10	
	SUPL	M	1	2	3	4	5	6	7	8	9	10	
OUTGOING SENDER CONN	BASIC	M	1	2	3	4	5	6	7	8	9	10	
	SUPL	M	1	2	3	4	5	6	7	8	9	10	
OUTGOING SENDER	MA	1	2	3	4	5	6	7	8	9	10		
OUTGOING SENDER LINK	MISC	1	2	3	4	5	6	7	8	9	10		
PRETRANSLATOR	MISC	19	4	3	2	1	7	6	5	9	8		
POWER, RINGING, AND TONE DISTRIBUTION BAY	MISC	1	2	3	4	5	6	7	8	9	10		
RECORDER	N	1	7	8	9	10	2	3	4	5	6		
RELAY RACK	NONE	20	21	22	23	24	25	26	27	28	29		
	FOR 2ND (RC) JK	NONE										1 2	
SUPL MASTER TEST CONN	MISC	20	21	22	23	24	25	26	27	28	29		
SUPL TRUNK LINK CONN	M	1	2	3	4	5	6	7	8	9	10		
TANDEM INCOMING REVERTIVE PULSING REG	MA	1	2	3	4	5	6	7	8	9	10		
TRAFFIC REG RACK (FGR 2ND (RC) JK)	MISC											10 11	
TRAFFIC REG RACK	MISC	00	01	02	03	04	05	06	07	08	09		
EMA TRANSLATOR	MISC	54	30	40	31	41	32	42	52	33	43		
TRANSVERTER	M	1	9	10	11	12	3	4	5	6			
TRANSVERTER CONN	MISC	139	88	98	108	118	89	99	109	65	75		
TRUNK LINK	MISC	99	95	96	97	98	92	93	94	90	91		
EXTENSION TRUNK LINK	MISC	12	1	2	3	4	5	6	7	9	10		
TRUNK LINK CONN (BASIC)	J	13	14	15	16	17	22	23	24	18	19		
LINE LINK MARKER CONN	BASIC	M	1	2	3	4	5	6	7	8	9	10	
	SUPL	M	1	2	3	4	5	6	7	8	9	10	
MASTER TEST FR JACK BAY	MISC B	30	31	32	33	34	21	22	23	35	36		

* INDICATES PUNCHINGS ASSIGNED TO TERMINATE SWITCHBOARD CABLE LEADS. THERE IS NO CONNECTION ON THE LOCAL CABLE SIDE OF THESE PUNCHINGS.
 • SHOWN IN NO. GROUP AND NO. GROUP CONN CKT.

TABLE E (FOR +130V SUPPLY)
 SEE FIG. 105

NAME OF FRAME	TS DESIG	PUNCHING NO.	RATING
MARKER COMMON EQPT BAY	U & Y TYPE	CA	MISC 39
	W SPG TYPE	CA	MISC 19
MASTER TEST FRAME	AUTO MON	MTF B	1
	AUXILIARY REG AND SENDER TEST	MISC A	40
	REG AND SENDER TEST	MISC A	1
	AUTO MON	MISC	59
	AUXILIARY REG AND SENDER TEST	MISC	59
	REG AND SENDER TEST	MISC	59
PRETRANSLATOR CKT 0 OR 2	PTD	MISC 17	MFR DISC
		MISC 11	
PRETRANSLATOR CKT	PTD	MISC 12	MFR DISC
TRANSVERTER	M	16	MFR DISC
DIAL TONE MARKER, TRANSVERTER	MISC	19	
FOR AREA TRANSLATOR (A)	MISC	19	
FOR AREA TRANSLATOR (B)	MISC	29	
MASTER EVEN TIMER	E	32	
TIMING ODD TIMER	F	32	
CAMA BT	MC	11	
CAMA TV	MISC	19	
JNT TV	MISC	14	
TRUNK GROUP TRAFFIC SAMPLE	MISC	19	
SUPL TRUNK GROUP TRAFFIC SAMPLE	MISC	19	

TABLE B (MFR DISC)
 SEE FIG. 127

TS	TERM. DESIG	BASIC FR					SUPL FR				
		S00	S01	S02	S03	S04	S05	S06	S07	S08	S09
J	A	90	93	96	100	103	106	0	3	30	33
	B	91	94	97	101	104	107	1	4	31	34
	C	92	95	98	102	105	108	2	5	32	35

TABLE C (MFR DISC)
 SEE FIG. 126

TS	TERM. DESIG	(TL) JK					
		BASIC FR			SUPL BAY		
		1ST 100 LINES	2ND 100 LINES	3RD 100 LINES	1ST 50 OR 100 LINES	2ND 50 OR 100 LINES	
J	D	110	113	116	54	57	
	E	111	114	117	55	58	
	F	112	115	118	56	59	

TABLE F (A&M ONLY)
 (FOR LK LEADS)
 REPLACED BY TABLE M
 SEE FIG. 124
 (SEE NOTE 211)

NAME OF FRAME	TS DESIG	PUNCHING	
		L	M
MARKER COMMON EQPT BAY	CA	17	18
MASTER TIMING	E	8	14
PRETRANSLATOR	PTD	MISC 17	MISC 18
TRANSVERTER	M	13	14

TABLE D (A&M ONLY)
 (FOR +130 TBS)
 REPLACED BY TABLE M
 SEE FIG. 113
 (SEE NOTE 211)

NAME OF FRAME	TS DESIG	PUNCHING NO.	RATING
INCOMING REGISTER	MC	21	
INCOMING REGISTER MARKER CONN	M	32	
INTERMARKER GROUP SENDER	MA	17	
LINE INSULATION TEST	MISC A	119	
LINE LINK MARKER CONN	M	32	A&M ONLY
MANUAL OUTGOING TRUNK TEST, FR	MISC B	27	
MARKER COMMON EQPT BAY	CA	MISC 36	
MASTER TEST FRAME	AUTO MON	MTF B	0
	AUXILIARY REG AND SDR TEST	MISC A	43
	CONTROL BAY	MISC A	2
	RECORDER BAY	MISC A	80
	REG AND SENDER TEST	MISC A	0
MULTI-FREQUENCY CURRENT SUPPLY	NONE	12	MFR DISC
LINE LINK	MISC J	82	
ORIGINATING REGISTER	MD	1	
ORIGINATING REGISTER MARKER CONN	M	32	
OUTGOING SENDER	MA	31	
POWER, RINGING, AND TONE DISTG	NONE	17	
PRETRANSLATOR	PTD	MISC 10	
MF CURRENT SUPPLY	NGR	17	
LINE LINK	MISC L	72	
RELAY RACK	NONE	17	
TRANSVERTER	M	8	
TRANSVERTER CONN	MISC	159	
TANDEM INC-REVERTIVE PULSING REGISTER	MB	29	

MISCELLANEOUS CIRCUIT

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TABLE G (FOR -48 TBS)
SEE FIG. 137

NAME OF FRAME	TS DESIG	PUNCHING NO.	RATING
MANUAL OUTGOING TRUNK TEST FR	MISC B	22	
MASTER TIMING	F	25	
TRANSVERTER	M	7	MFR DISC
4W LINE PREEMPTION GROUPING FR	MISC	11	
FOREIGN AREA TRANSLATOR	MISC	11	
FOREIGN AREA TRANSLATOR CONN	MISC	11	
ORIGINATING REG LINE MEMORY FR (WS)	MISC	11	
LINE LINK MKR CONN FR (WIRE SPRING)	MISC	11	MFR DISC
4W TRUNK PREEMPTION GROUPING FR	MISC	11	
4W TRUNK GROUP CONN FR FOR EIGHT MARKERS	MISC	11	
4W TRUNK GROUP CONN FR FOR FOUR MARKERS	MISC	11	
ROUTE TRANSLATOR FR, ROUTE DISTRIBUTOR FR, SUPPLEMENTARY ROUTE DISTRIBUTOR FR	MISC	11	
ALL OTHER WIRE SPRING FRAMES AND NON-WIRE SPRING RELAY FRAMES ARRANGED FOR SOLDERLESS WIRE WRAPPING	MISC	11	
ACD-MKR, ACD-FCR	MISC	11	

TABLE K [FOR (RCA) JK]
SEE FIG. 153

NAME OF FRAME	TS DESIG	TERM.		RATING
		T	R	
TRUNK LINK	MISC	70	71	MFR DISC
RELAY RACK	MISC	3	4	
RECORDER	M	24	22	
TRANSVERTER	CABLE DIRECT			MFR DISC
ALL WIRE SPRING FRAMES AND RELAY RACK FRAMES	MISC	45	35	

TABLE H (A&M ONLY)
(FOR LK OR LK1 LEADS)
REPLACED BY TABLE M
SEE FIG. 140
SEE NOTE 211

NAME OF FRAME	TS DESIG	TERM.			RATING
		A	B	C	
BASIC LINE LINK CONN	M	12	11		
BASIC NO. GROUP CONN	C(O)	45	55		
BASIC OUTGOING SENDER CONN	M	17	18		
BASIC TRUNK LINK CONN	J	12	8		
INTERRUPTER	MISC	13	14		MFR DISC
MASTER TEST FR CONTROL BAY	MISC A	89	99		
RELAY RACK	NONE	15	14		
AMA TRANSLATOR	MISC	46	56		
LINE INSULATION TEST	MISC B	112	111	113	
MASTER TEST FR JACK BAY	MISC A	2	3		
INTERRUPTER	MISC	15	14		

TABLE J (A&M ONLY)
(FOR MN LEADS)
REPLACED BY TABLE M
SEE FIG. 142
SEE NOTE 211

NAME OF FRAME	TS DESIG	TERM.	RATING
BASIC LINE LINK CONN	M	13	
BASIC NO. GROUP CONN	C(O)	39	
BASIC OUTGOING SENDER CONN	M	13	
BASIC TRUNK LINK CONN	J	5	
INTERRUPTER	MISC	12	MFR DISC
MASTER TEST FR CONTROL BAY	MISC A	13	
RELAY RACK	NONE	19	
AMA TRANSLATOR	MISC	44	
LINE INSULATION TEST	MISC B	115	
INTERRUPTER	MISC	19	

DRAWING ISSUE
288
29D
30D LP

ISSUE
41D

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BELL TELEPHONE LABORATORIES INCORPORATED	6S	

SD-25574-01-15

DRAWING	ISSUE
28B	1
29D	1
30D	1
32D	1
36D	1
39D	1

FIG. 1
-48 FUSE CKT FOR MARKER FR

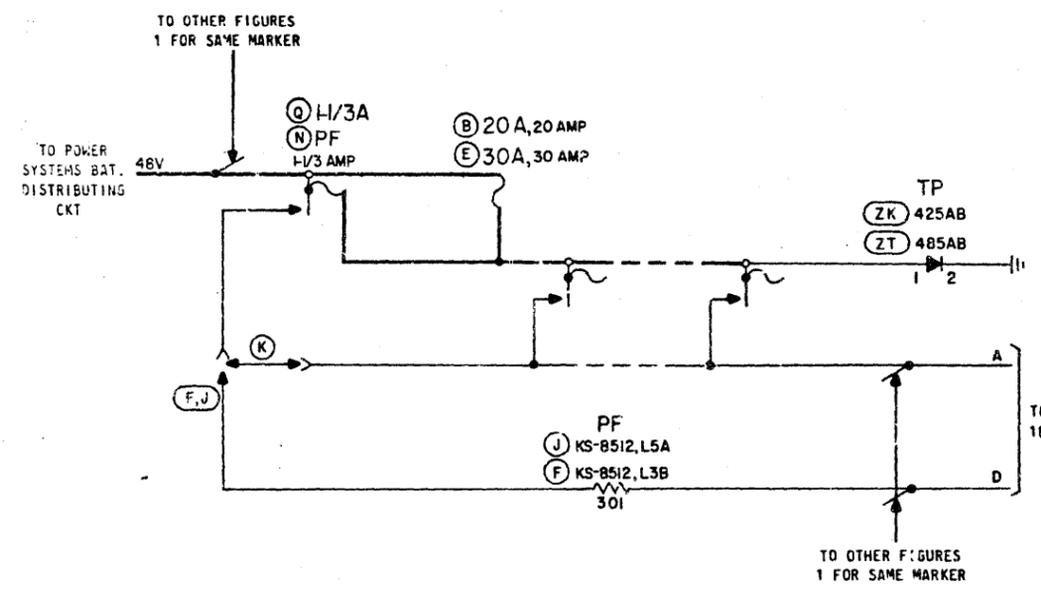


FIG. 3
-24 OR -48 FUSE CKT
CROSS CONN FIG. 150, 159, 186, 187, 189, 190, AND 201

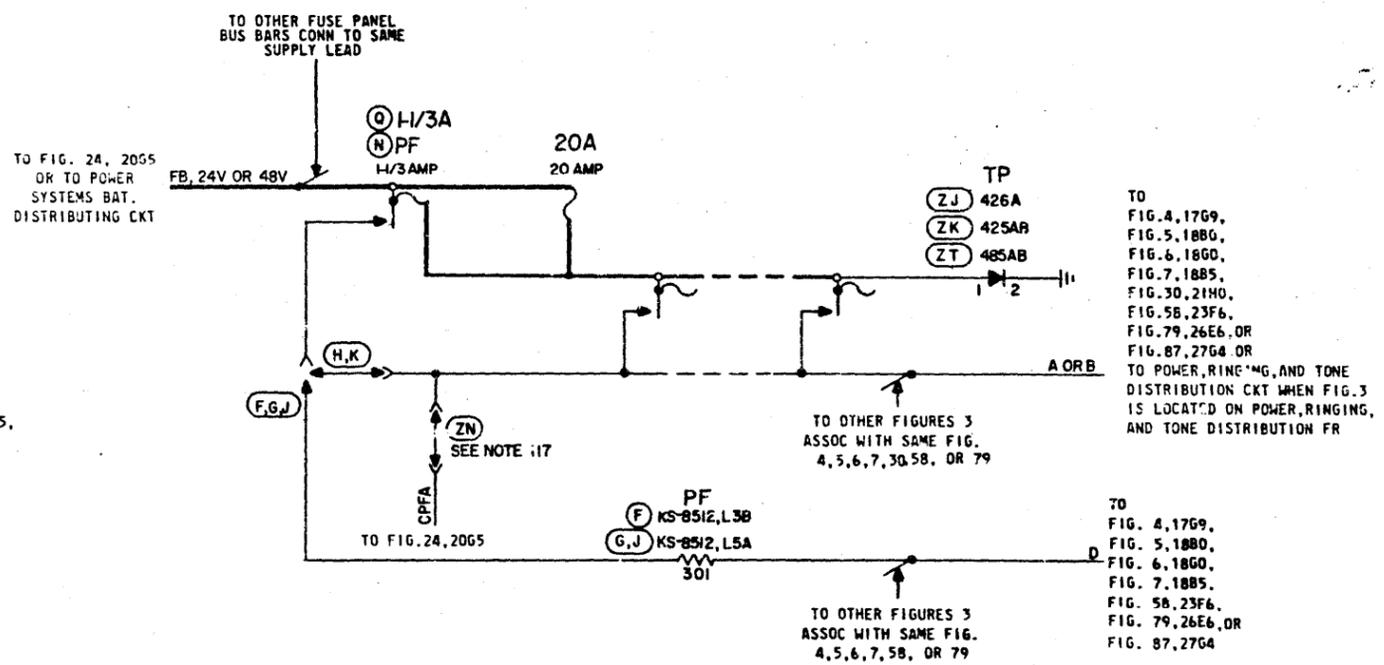


FIG. 2
-48 FUSE CKT FOR PRETRANSLATOR FR
OR I.C. REG PRETRANSLATOR FR
CROSS CONN FIGURES 101 AND 158

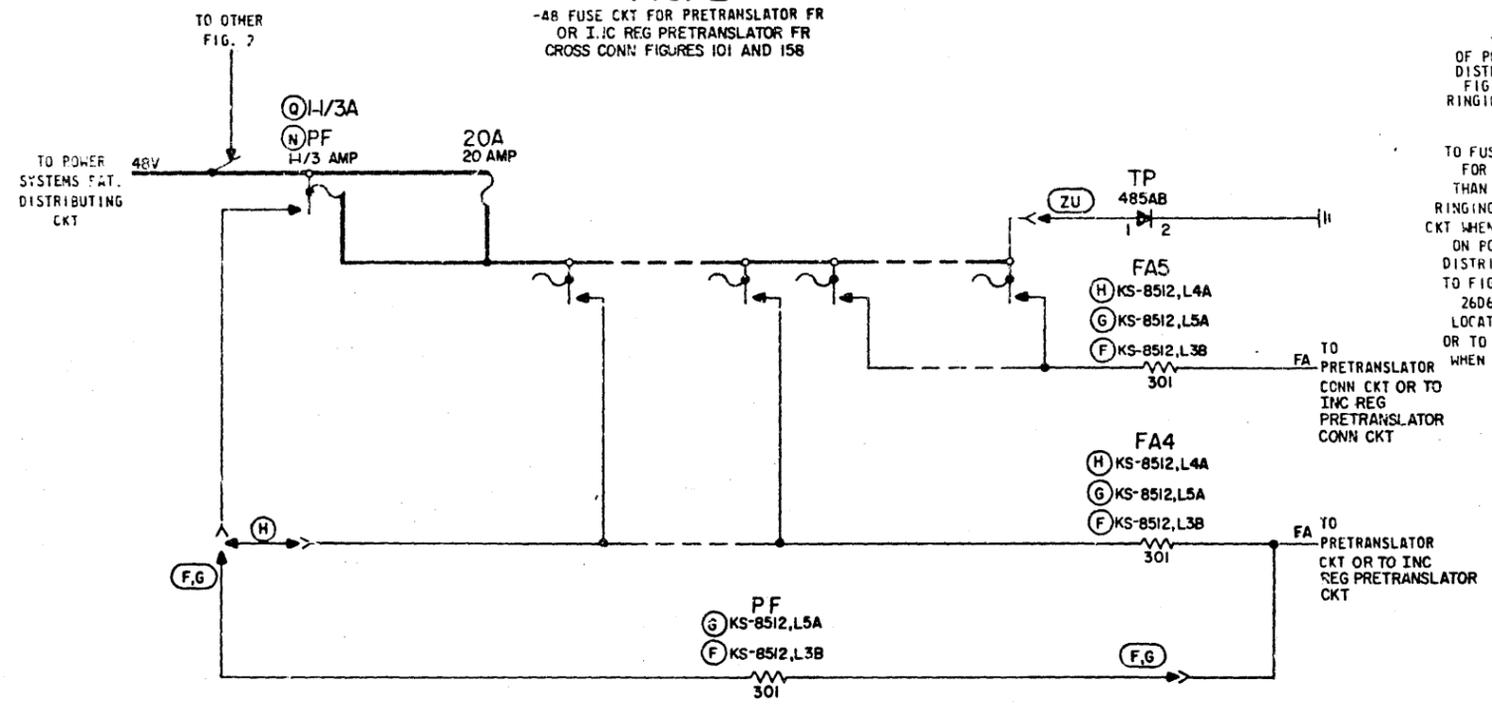
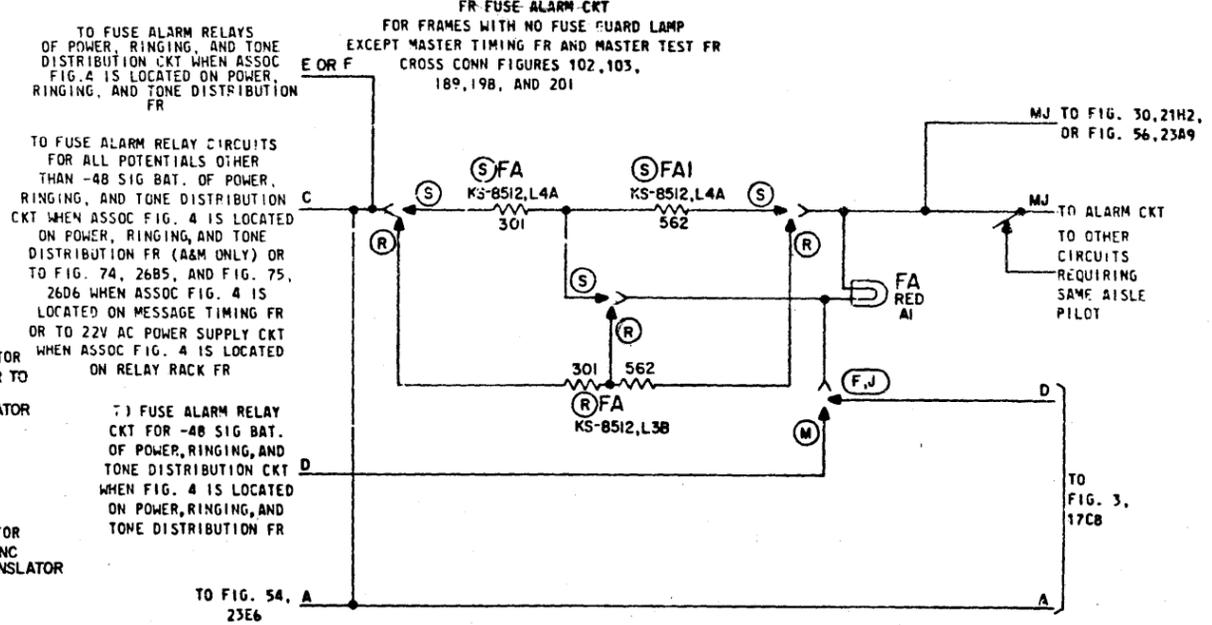


FIG. 4
FR FUSE ALARM CKT



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HIGGINS 4465
K&E

MISCELLANEOUS CIRCUIT

BELL TELEPHONE LABORATORIES
INCORPORATED

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6S

FIG. 5

-48 AND +130 FUSE ALARM CKT FOR
MARKER AND TRANSVERTER FRAMES
AND FOR ROUTE TRANSLATOR FRAMES
CROSS CONN FIG. 127

TO
FIG. 1, 17C3
OR
FIG. 3, 17C8

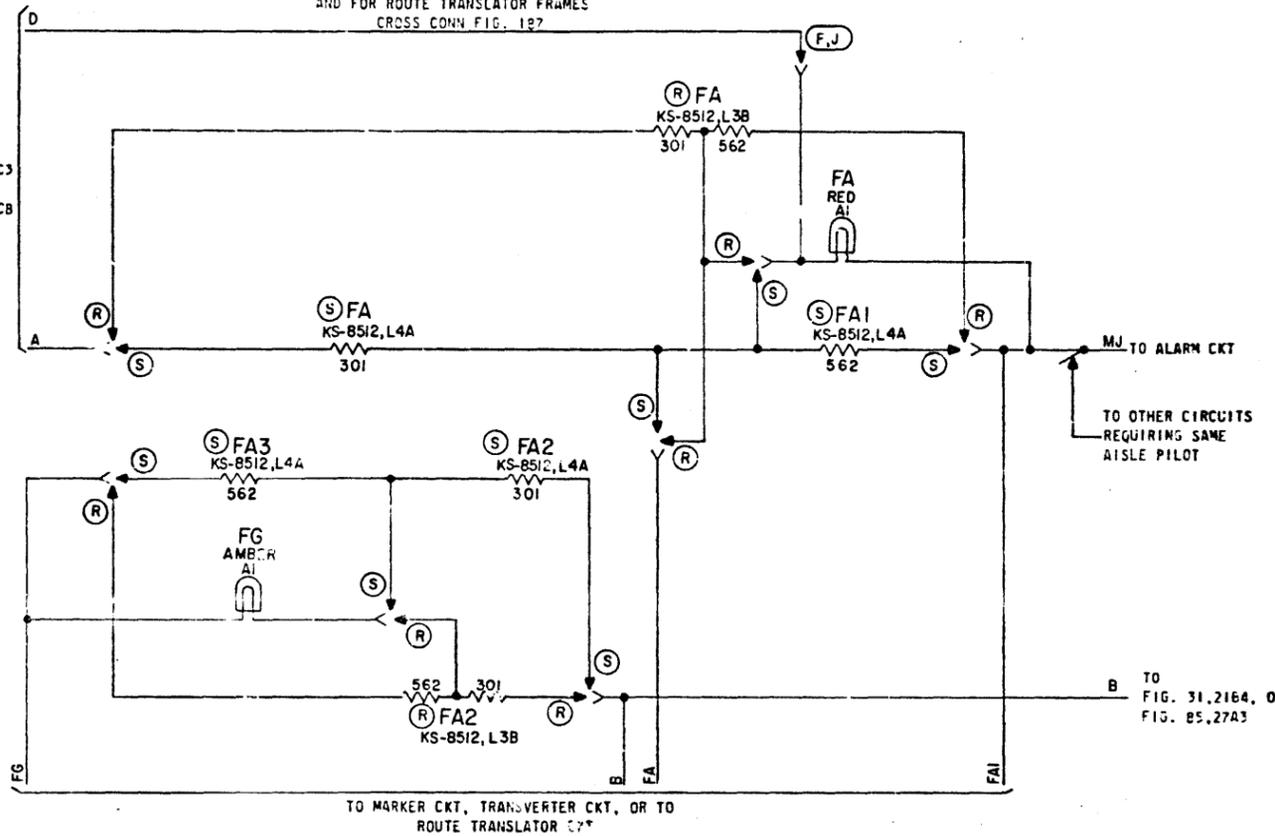


FIG. 7

-48 AND +130 FUSE ALARM CKT
FOR MASTER TEST FR
CROSS CONN FIGURES 103 AND 104

TO FIG. 3,
17C8

TO FIG. 12,
1962

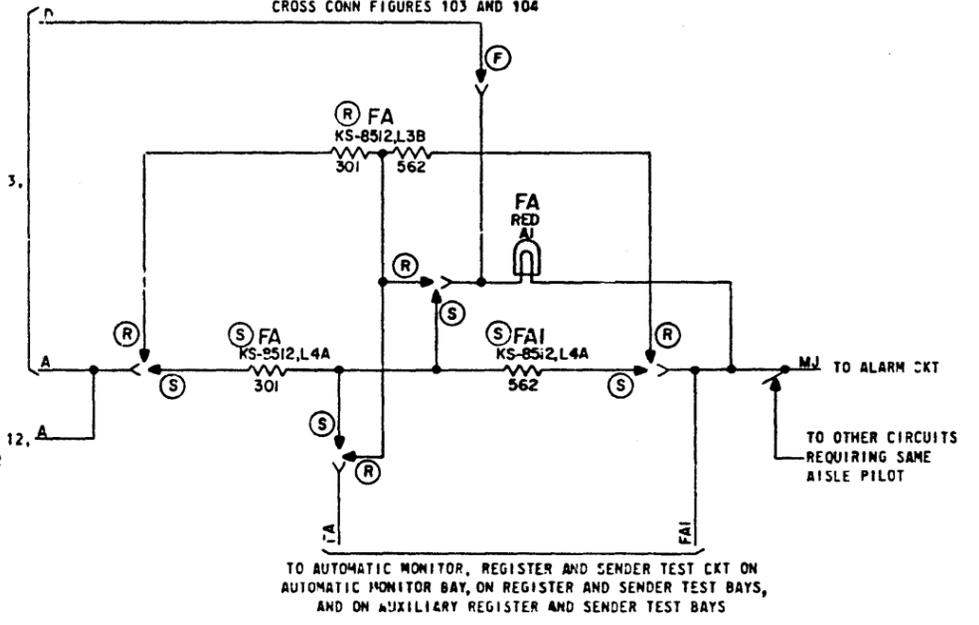


FIG. 8

-48 AND +130 FUSE ALARM CKT FOR
PRETRANSLATOR FR OR IDDD PRETRANSLATOR FR
OR INC REG PRETRANSLATOR FR
CROSS CONN FIGURES 101, 103, AND 158

TO OTHER CIRCUITS
REQUIRING SAME
AISLE PILOT

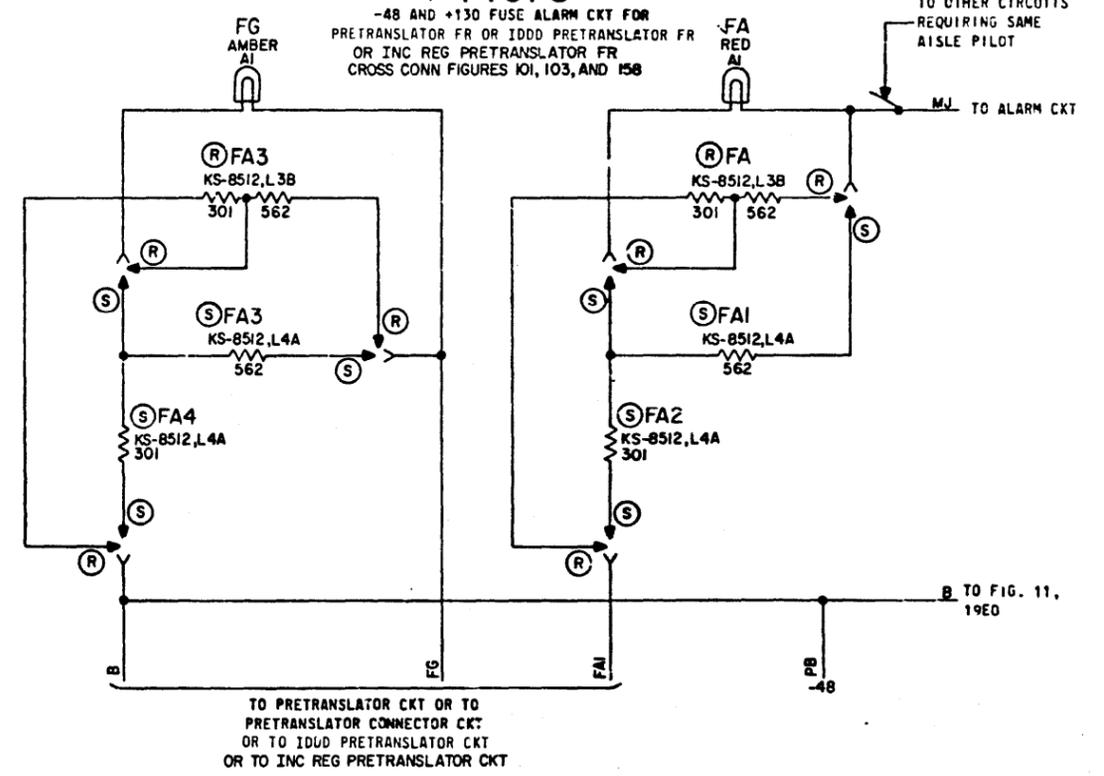
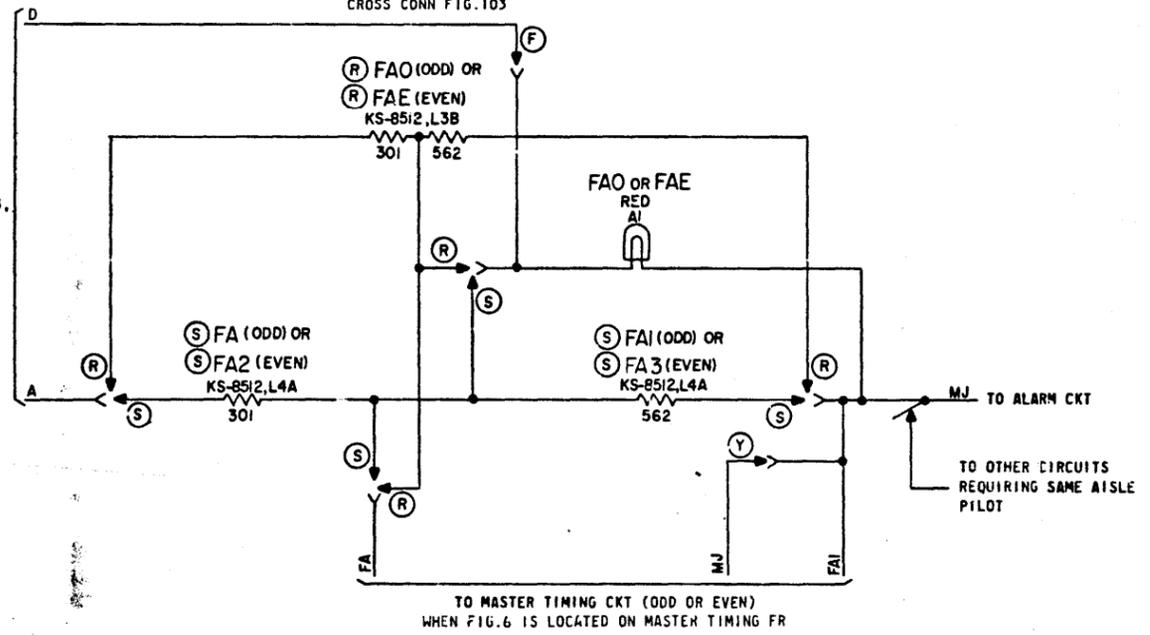


FIG. 6

-48 AND +130 FUSE ALARM CKT
FOR MASTER TIMING FR
OR CENTREX WIDEBAND CONSOLE
CONN/TRUNK FR
CROSS CONN FIG. 103

TO FIG. 3,
17C8



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HIGGINS 4465
K-E

DRAWING	ISSUE
29B	1
29C	1
30D	1
37D	1
39D	1

FIG. 9
+130 FUSE CKT FOR MARKER, TRANSVERTER, PRETRANSLATOR, MASTER TIMING, MASTER TEST, FOREIGN AREA TRANSLATOR, CAMA TRANSVERTER, ANI TRANSVERTER, CAMA BILLING INDEXER FRAMES, SELECTED TRUNK GROUP TRAFFIC SAMPLE FR, LAMA-MTR TRANSVERTER FR AND SUPPLEMENTARY TRUNK GROUP TRAFFIC SAMPLE FR
CROSS CONN FIG. 105

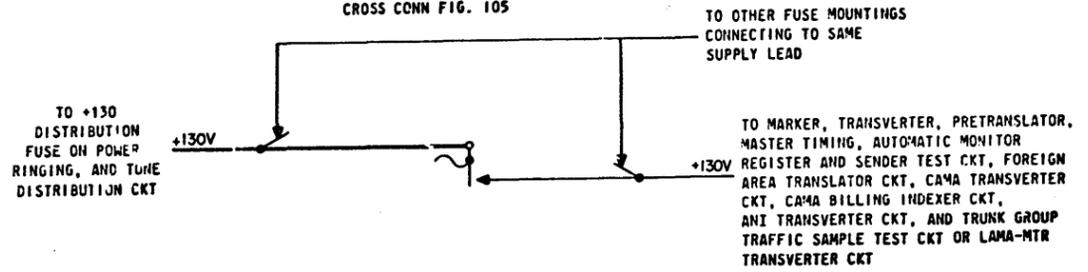


FIG. 13
-48 FR TEST BAT. CKT
CROSS CONN FIGURES 106, 107, 108, 109, 110, 111, 149, 162, 163, 164, 169, 170, 171, 172

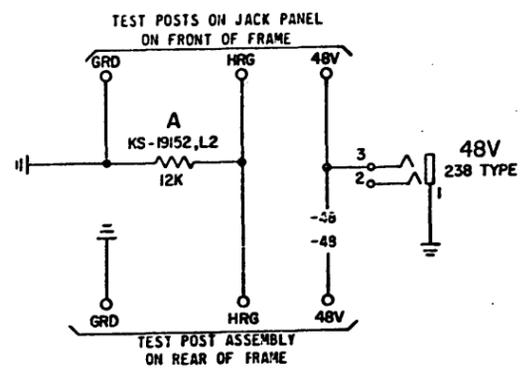


FIG. 16
SPAPE JACK CKT
CROSS CONN FIGURES 114 AND 115

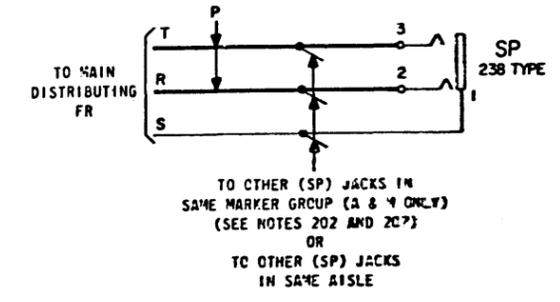


FIG. 10
GRD FEEDER CKT

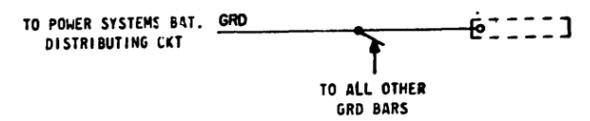


FIG. 17
FR LINE TELEPHONE JACK CKT
CROSS CONN FIGURES 116 AND 117

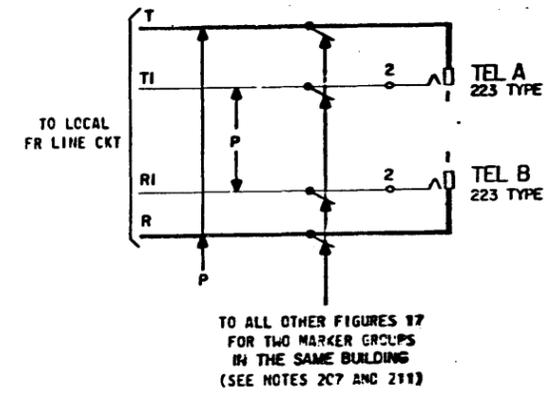


FIG. 11
TROUBLE RECORDER TIMING LAMP CKT
FOR PRETRANSLATOR FR OR IDDD PRETRANSLATOR FR OR INC REG PRETRANSLATOR FR

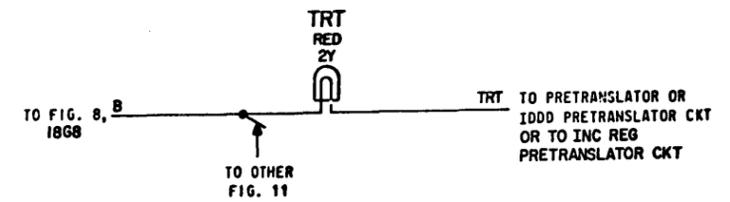


FIG. 14
-24 FR TEST BAT. CKT
CROSS CONN FIG. 156

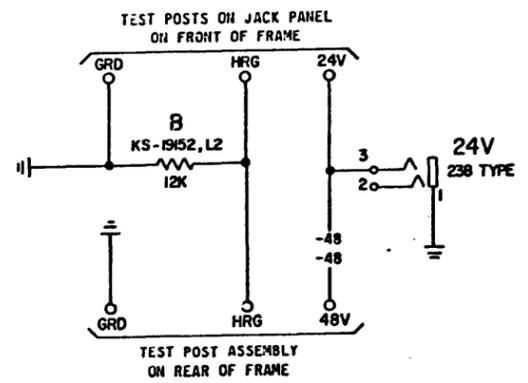


FIG. 12
RECORDER POWER SUPPLY CKT

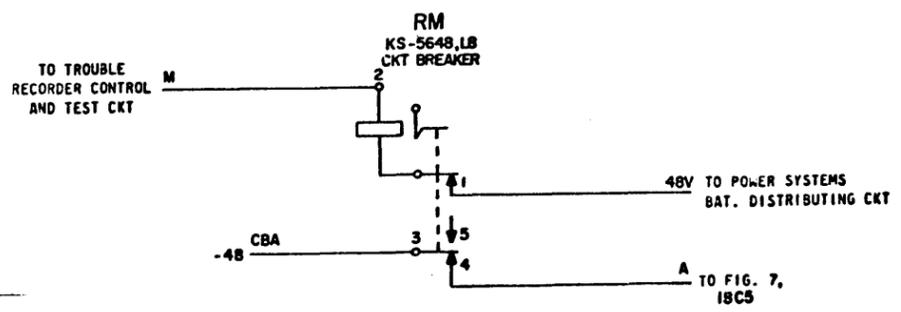


FIG. 15
+130 FR TEST BAT. JACK CKT
CROSS CONN FIG. 113

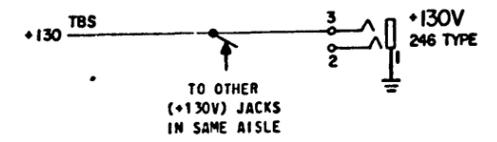
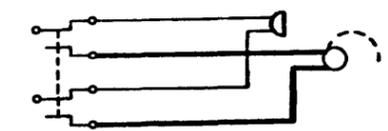


FIG. 18
525 OR 52A HEAD TELEPHONE SET



DRAWING	ISSUE
268	50B
290	
300	
310	
320	
340	
360	

FIG. 19

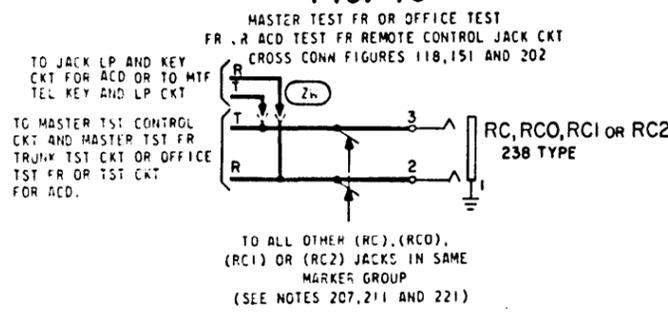


FIG. 22

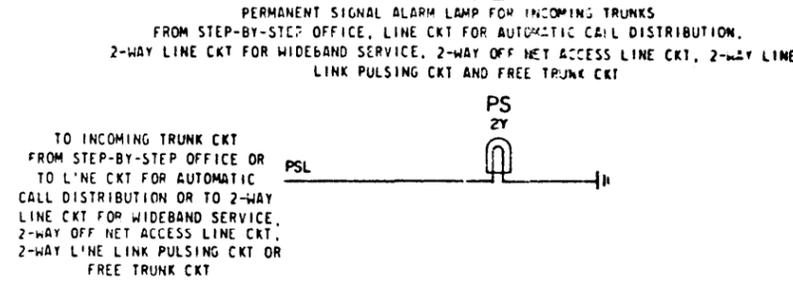


FIG. 25

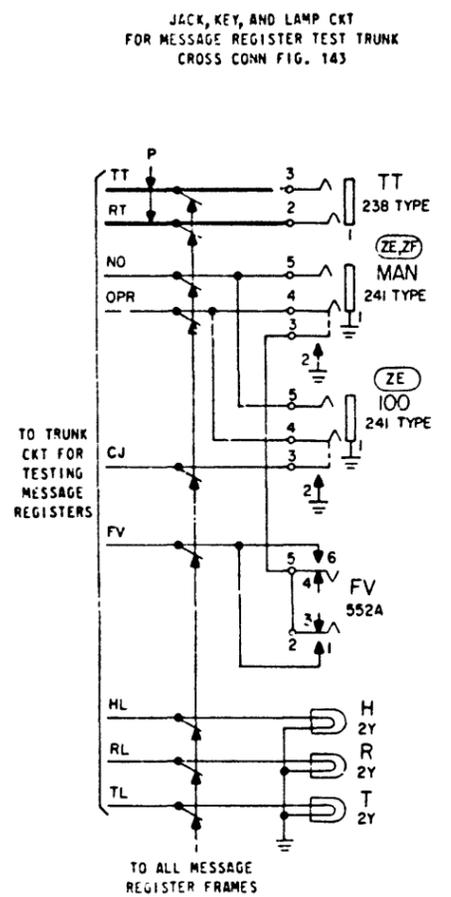


FIG. 20

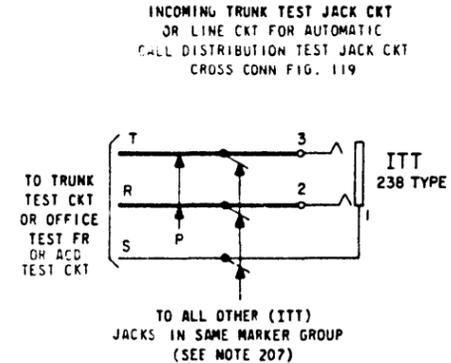


FIG. 23

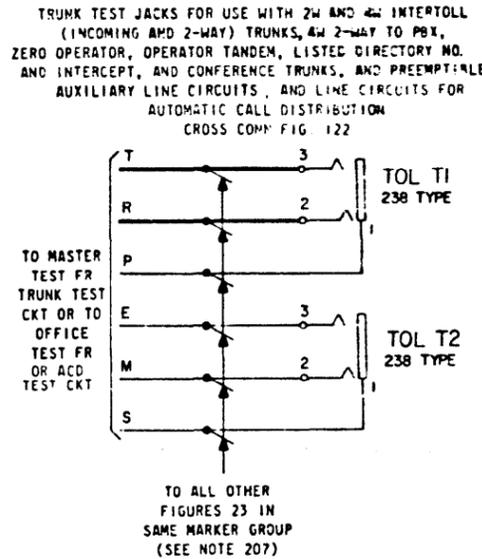


FIG. 21

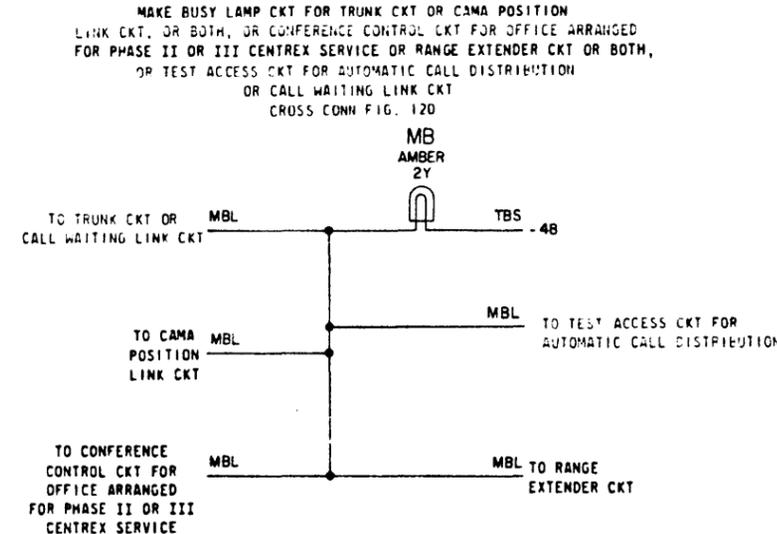


FIG. 24

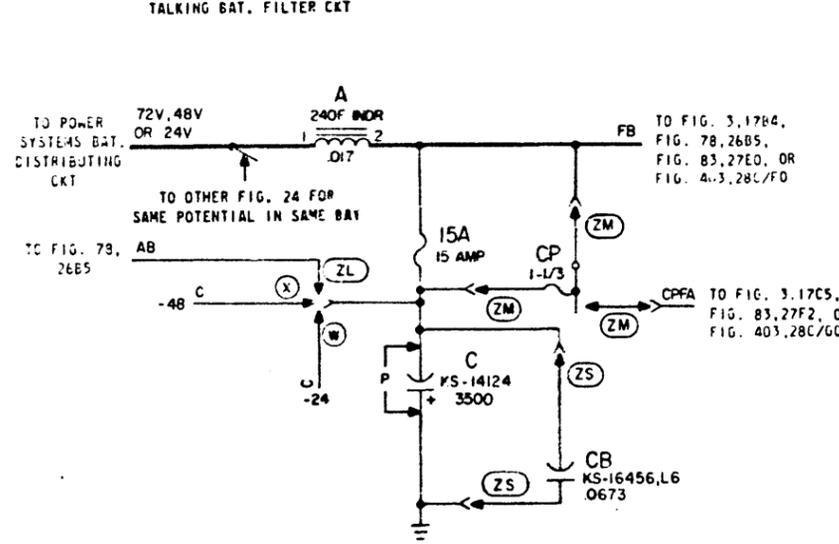
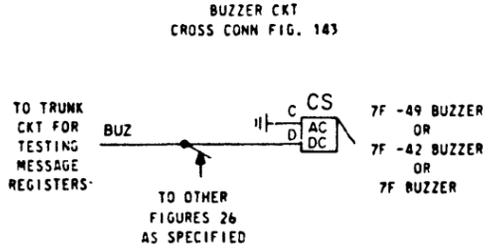


FIG. 26



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MISCELLANEOUS CIRCUIT

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6S

ISSUE 50B

FIG. 27(MFR DISC)
1011G HANDSET WITH 2W38A CORD

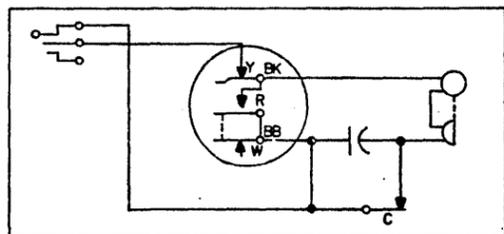


FIG. 28
32A TEST SET

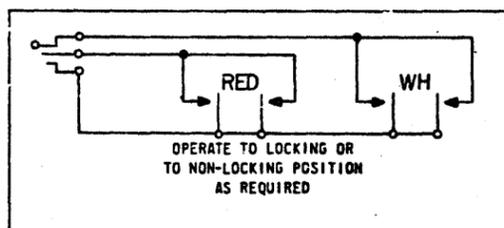


FIG. 29
RECORDERS TALKING LINE JACK CKT
CROSS CONN FIG. 123

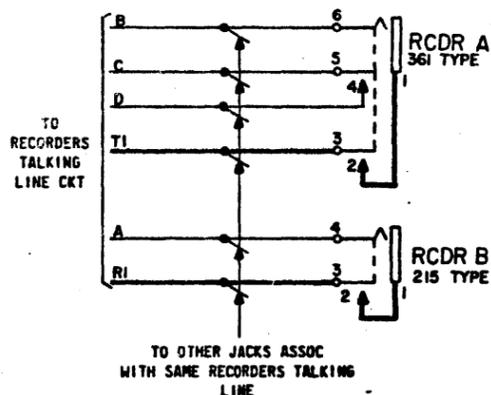


FIG. 30(MFR DISC)
-24 FUSE ALARM CKT

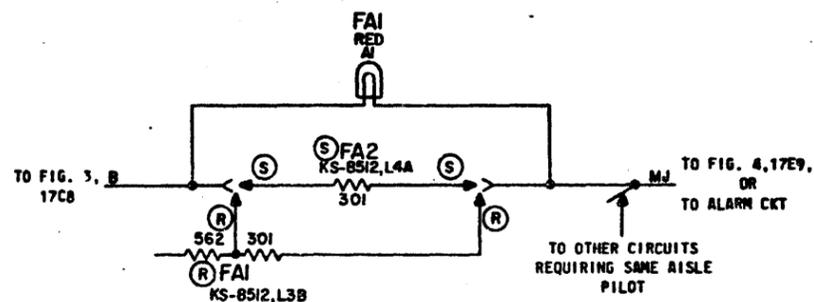


FIG. 31

TROUBLE RECORDER TIMING
AND TIME ALARM LAMP CKT
CROSS CONN FIG. 168

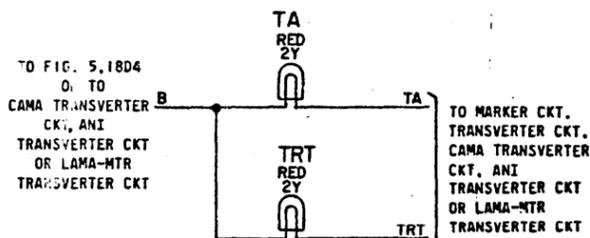


FIG. 32

ALARM RELEASE KEY CKT
FOR MARKER, TRANSVERTER, PRETRANSLATOR, FOREIGN AREA
TRANSLATOR, FOREIGN AREA TRANSLATOR CONNECTOR, CAMA TRANSVERTER,
CAMA POSITION LINK, CAMA BILLING INDEXER, CAMA LINE OBSERVING NO.
MATCHING, ANI TRANSVERTER, CENTREX POSITION LINK FRAMES, MF RECEIVER CONTROL
CONNECTOR FR (PROVISIONAL), ROUTE TRANSLATOR FRAMES, ROUTE DISTRIBUTOR FRAMES,
SUPPLEMENTARY ROUTE DISTRIBUTOR FRAMES, LAMA-MTR TRANSLATOR FR, AND IDDD
PRETRANSLATOR CKT, OR INC REG PRETRANSLATOR FR, OR DAS ETS FR, CROSS CONN
FIGS. 124 & 154

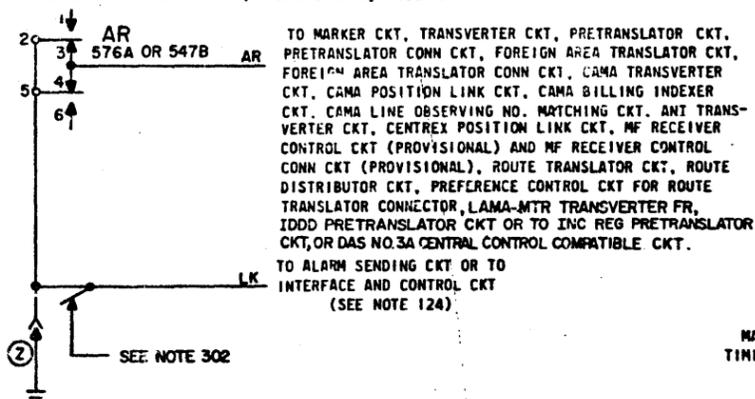


FIG. 33

FUSE GUARD LAMP
FOR MASTER TIMING FR

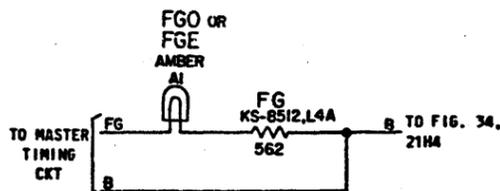


FIG. 34

TIME ALARM LAMP CKT
FOR MASTER TIMING FR



FIG. 35

ROUTINE TEST JACK CKT
FOR APPLYING DAILY TAPE CUTTING PATTERN

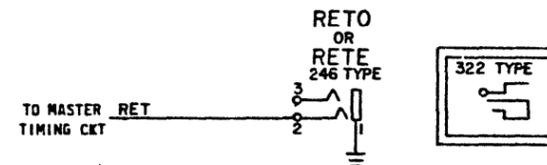


FIG. 36

ALARM RELEASE KEY CKT
FOR MASTER TIMING FR
CROSS CONN FIGURES 124 AND 154

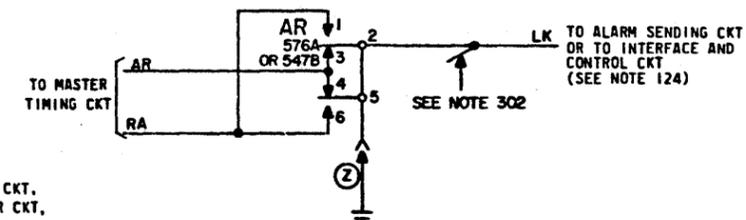


FIG. 37

ALARM CUT-OFF KEY CKT
FOR MASTER TIMING FR

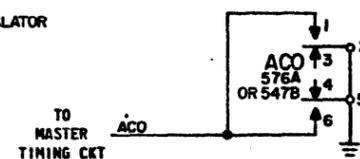


FIG. 38

RECORDER SELECTOR OUT OF
SYNCHRONISM LAMP CKT CROSS
CONN FIG. 125

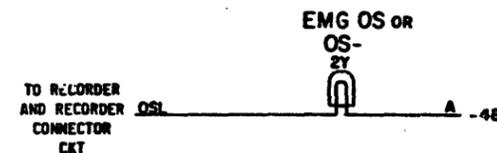


FIG. 39

MASTER TIMING TEST LAMP CKT FOR MASTER TIMING FR

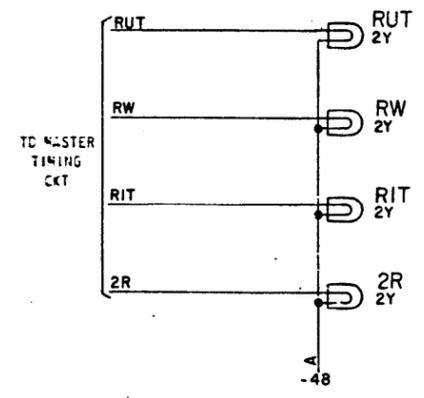


FIG. 43

RECORDER TEST REMOTE CONTROL JACK CKT CROSS CONN FIGURES 128 AND 129

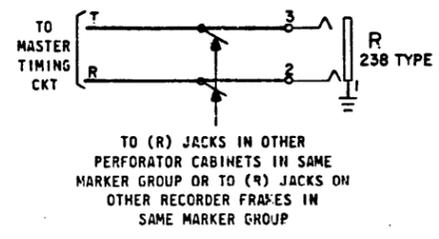


FIG. 44

MASTER TIMING TEST LAMP CKT FOR PERFORATOR CABINET CROSS CONN FIG. 130

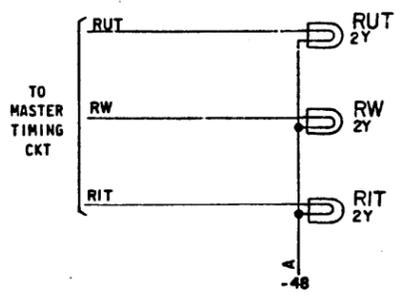


FIG. 46

OUTPUT REEL MOTOR

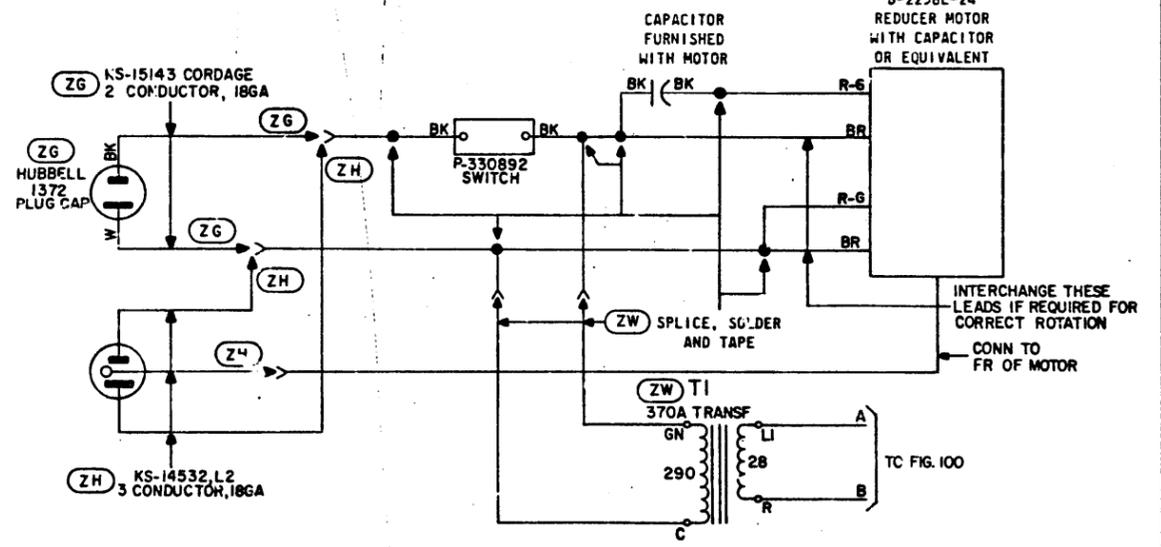


FIG. 40

TEST JACK CKT FOR NON-WIRE SPRING LINE LINK FRAMES CROSS CONN FIG. 126

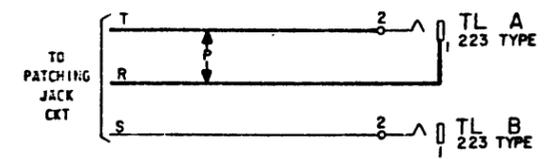


FIG. 45

OUTLETS FOR OUTPUT REEL MOTOR CROSS CONN FIG. 131

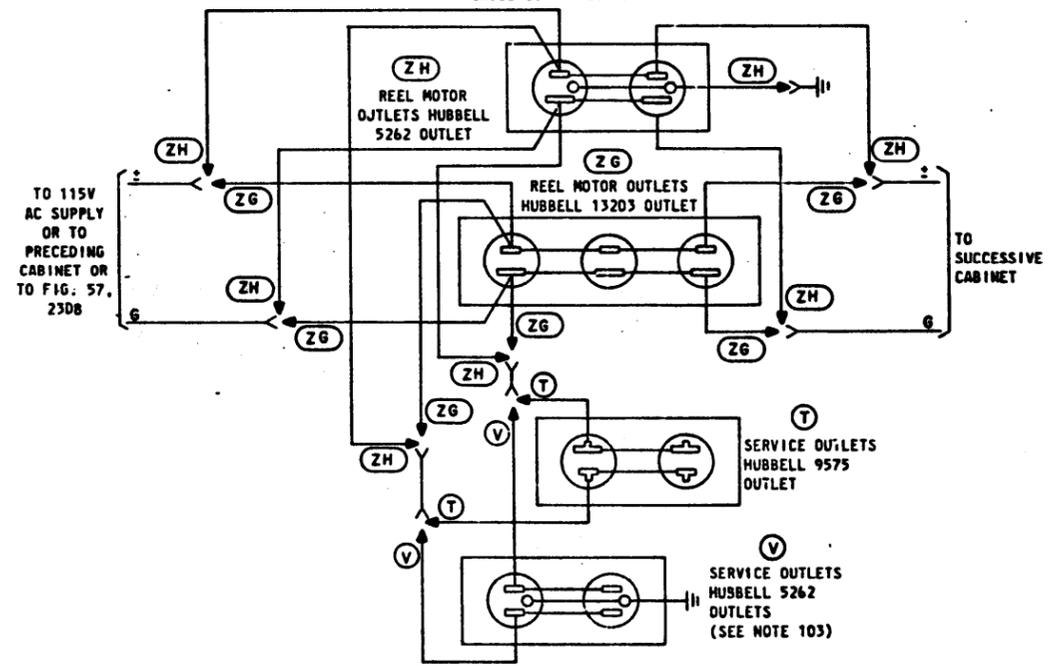


FIG. 47

TEST JACKS FOR REVERTIVE IMPULSE INTERRUPTER TEST CKT CROSS CONN FIG. 132



FIG. 41

SERVICE OBSERVING JACK CKT FOR NON-WIRE SPRING LINE LINK FRAMES CROSS CONN FIG. 127

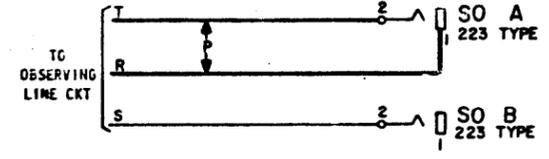


FIG. 42

SERVICE OBSERVING CORD FOR NON-WIRE SPRING LINE LINK FRAMES

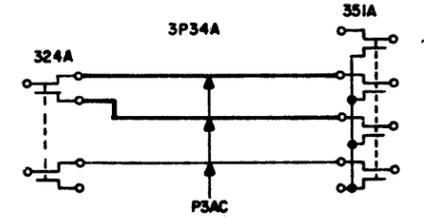
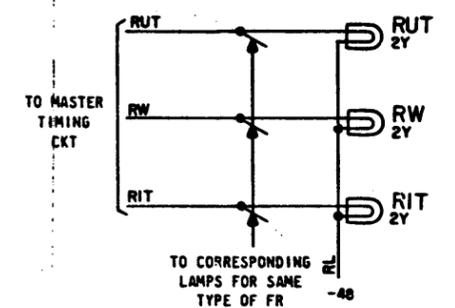


FIG. 48

MASTER TIMING TEST LAMP CKT FOR RECORDER FR CROSS CONN FIG. 133

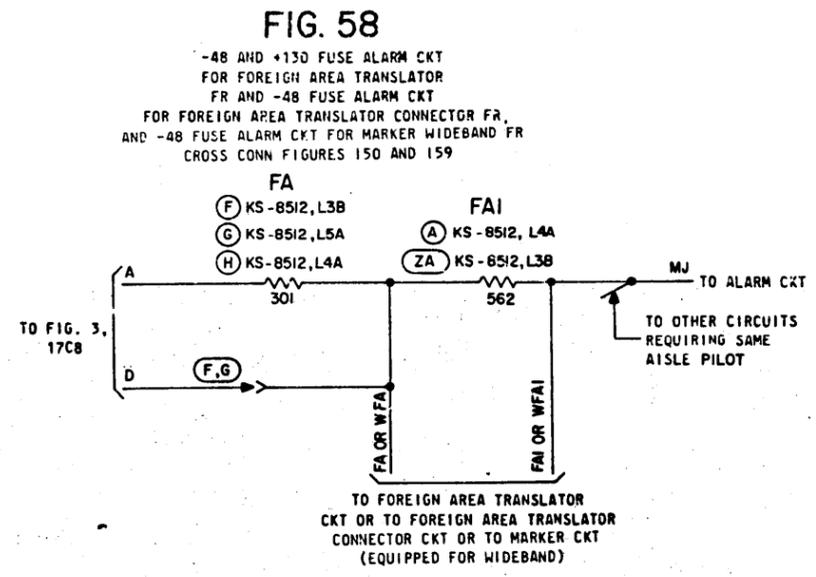
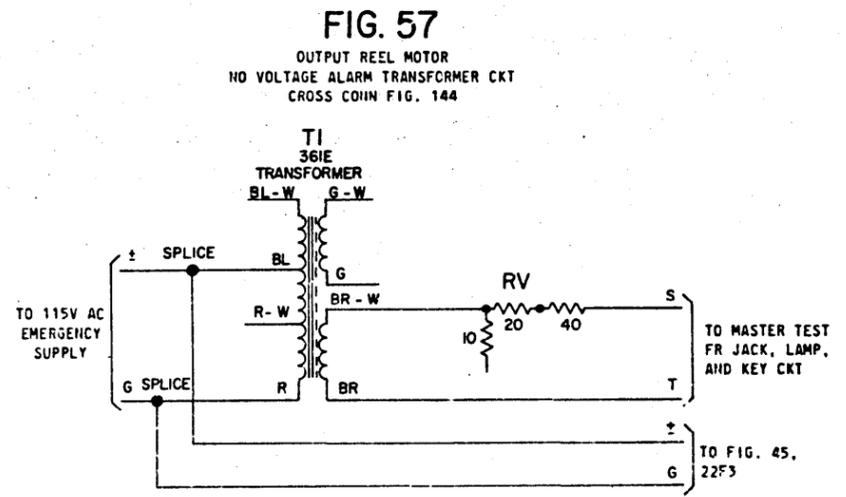
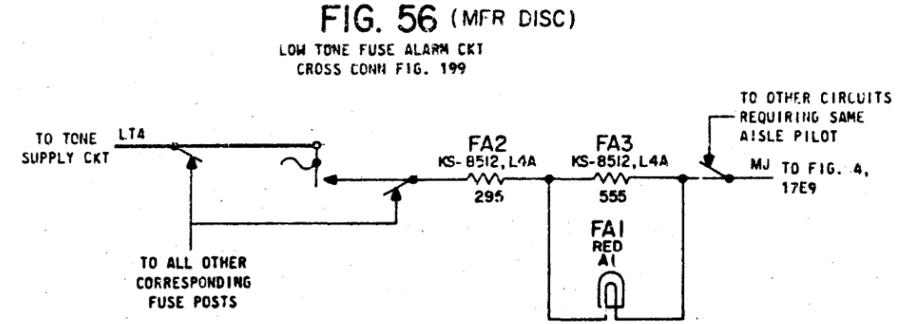
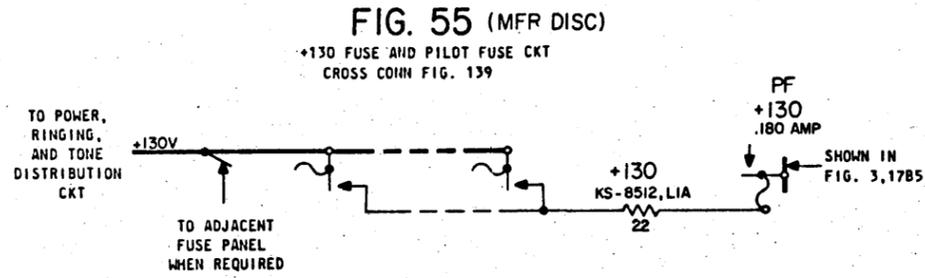
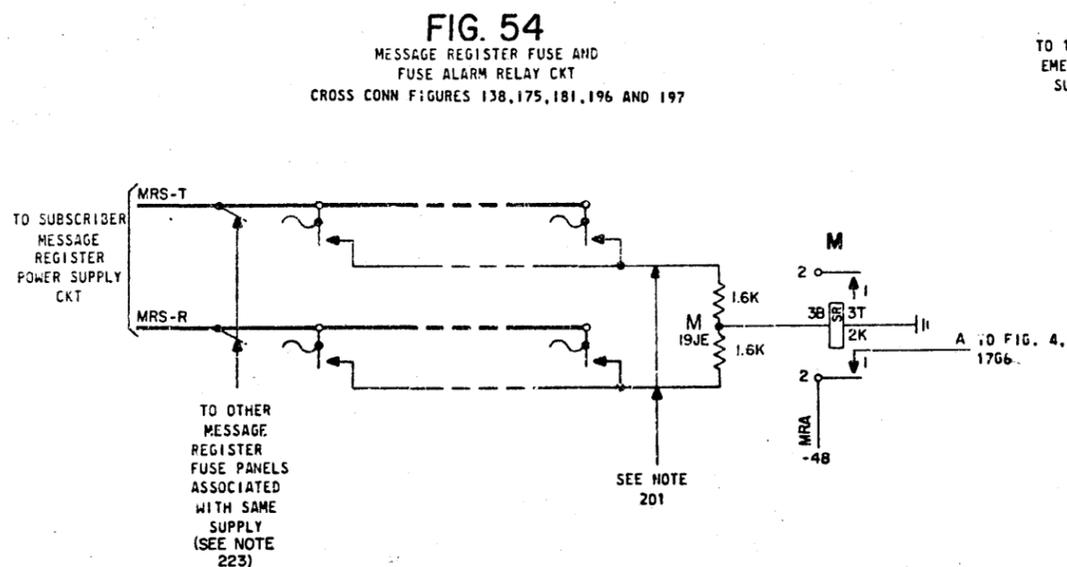
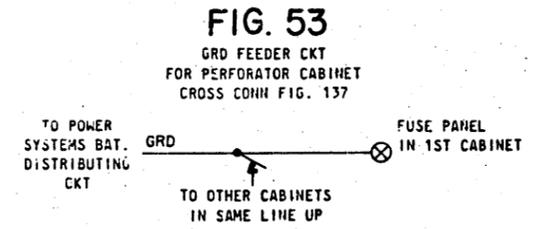
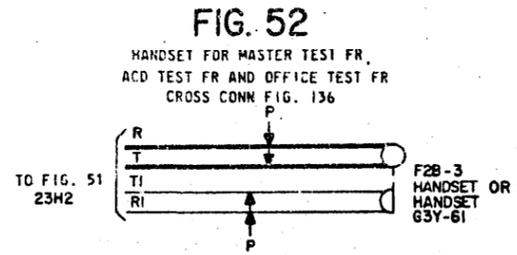
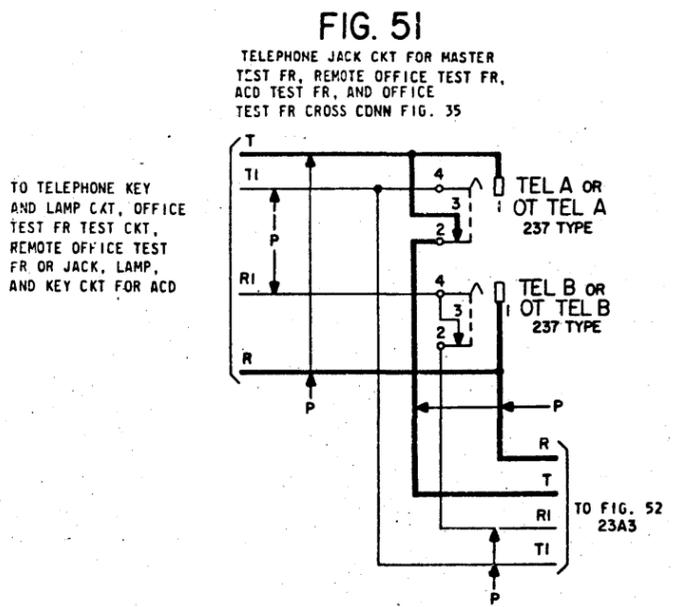
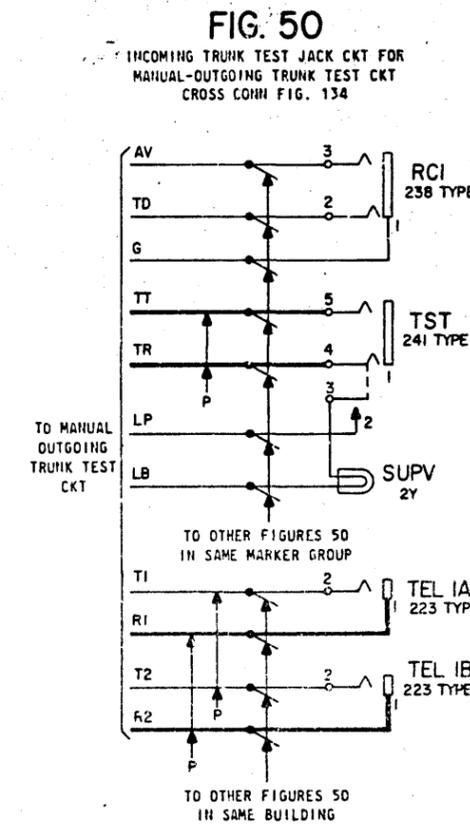
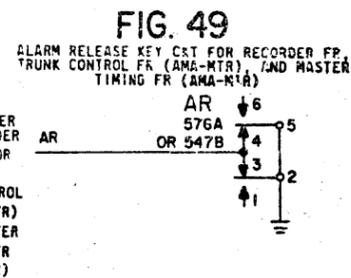


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A B C D E F G H

A B C D E F G H

0 1 2 3 4 5 6 7 8 9



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FIG. 59

FUSE ALARM AND FUSE GUARD LAMP CKT
FOR FOREIGN AREA TRANSLATOR FR,
FOREIGN AREA TRANSLATOR CONNECTOR FR,
AND MARKER WIDEBAND FR
CROSS CONN FIG. 145

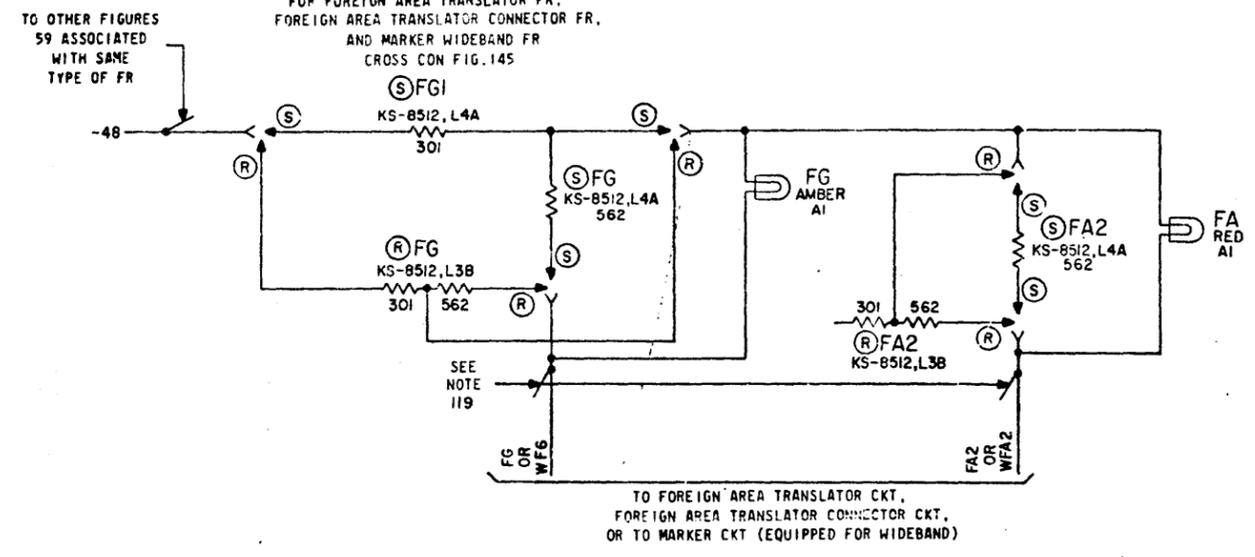


FIG. 60

TIME ALARM LAMP CKT
FOR FOREIGN AREA TRANSLATOR FR

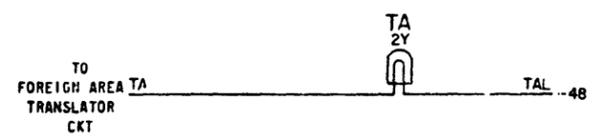


FIG. 61

2W OR 4W ORIGINATING REGISTER
TEST JACK CKT
CROSS CONN FIG. 146

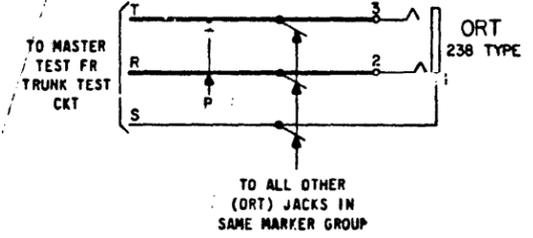


FIG. 62

TEST JACK CKT FOR REGISTERS
AND CAMA SENDERS
CROSS CONN FIG. 147

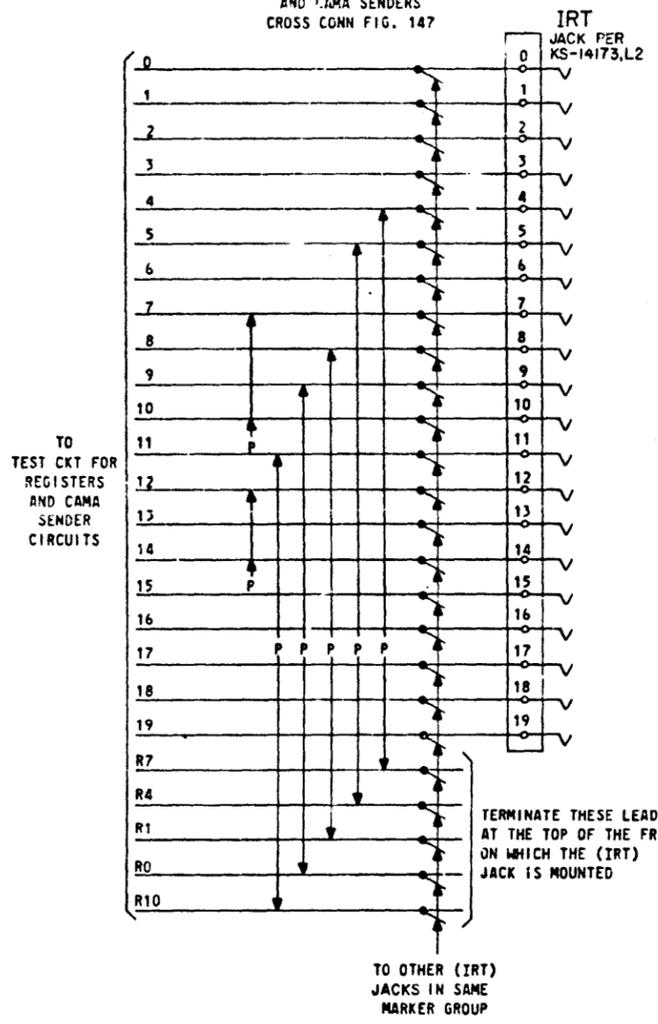
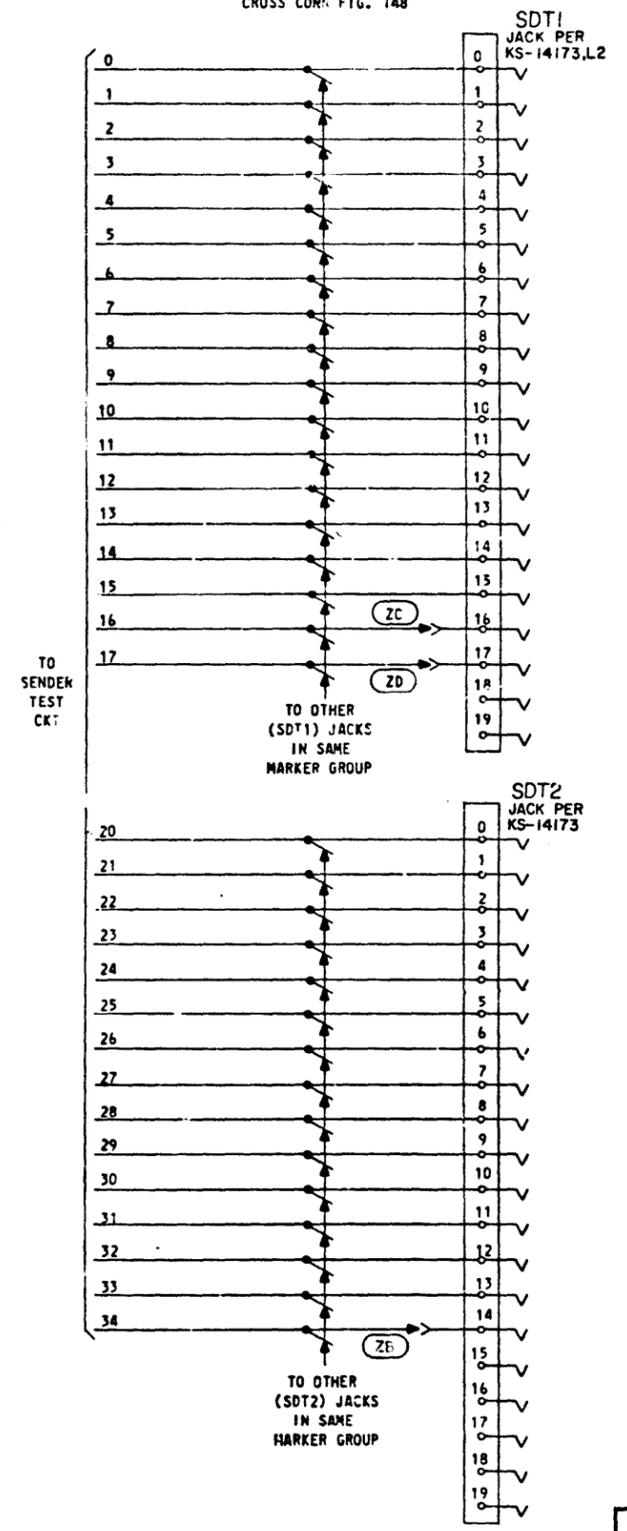


FIG. 63

SENDER TEST JACK CKT
CROSS CONN FIG. 148



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FIG. 64

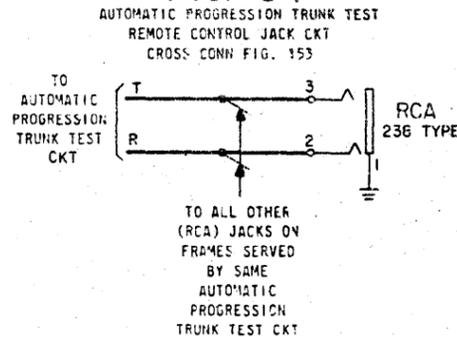


FIG. 67

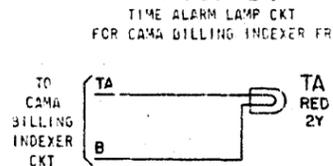


FIG. 71

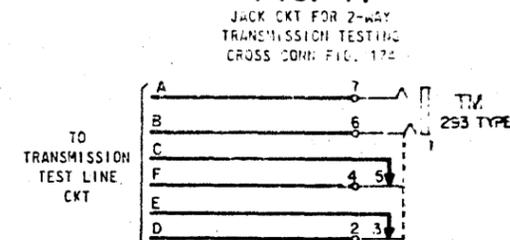


FIG. 68

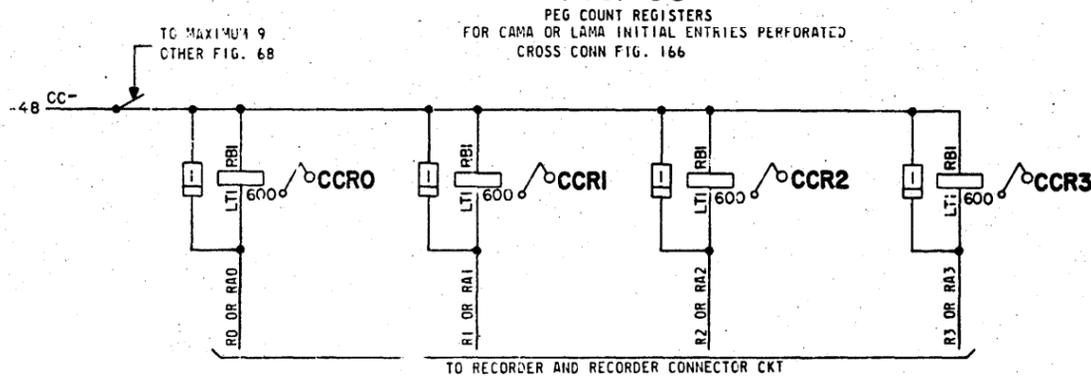


FIG. 65

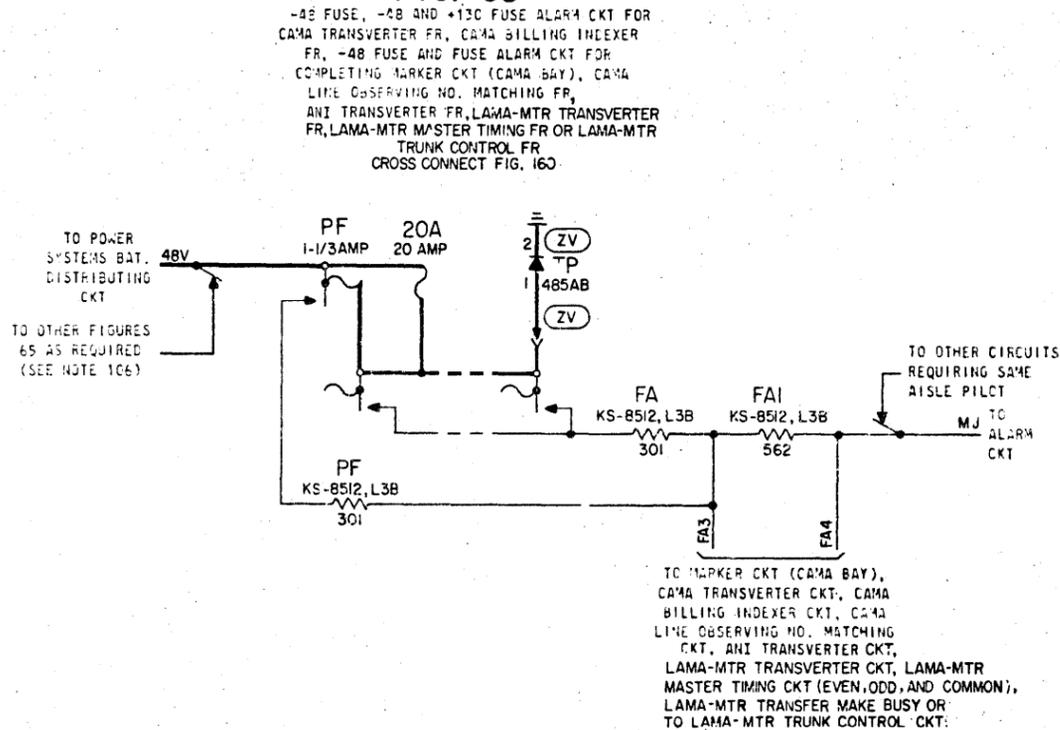


FIG. 69

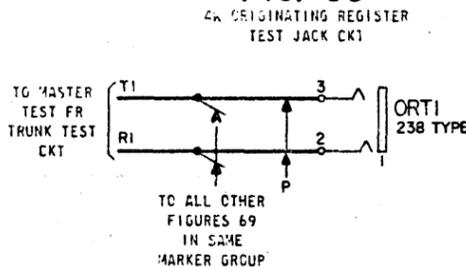


FIG. 72

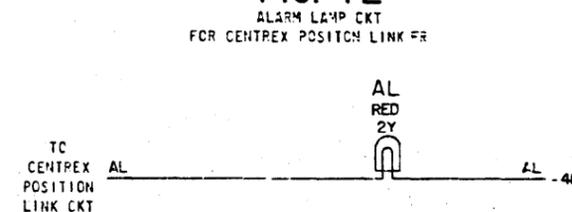


FIG. 66

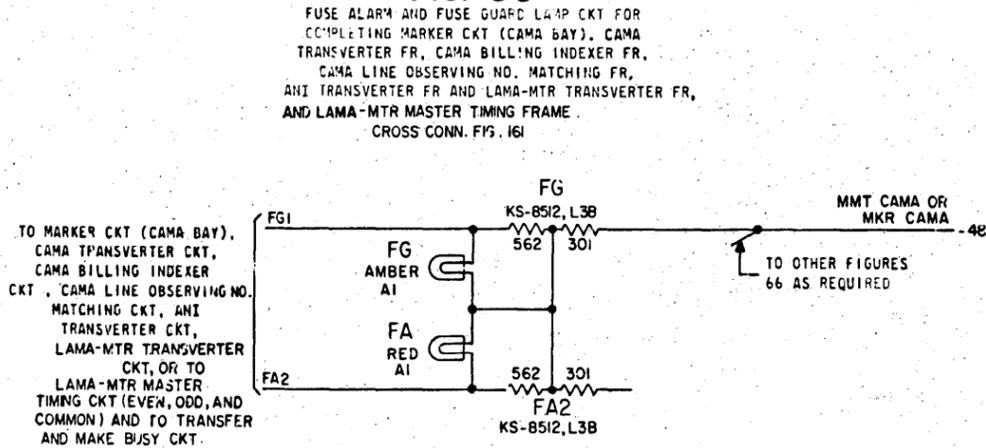
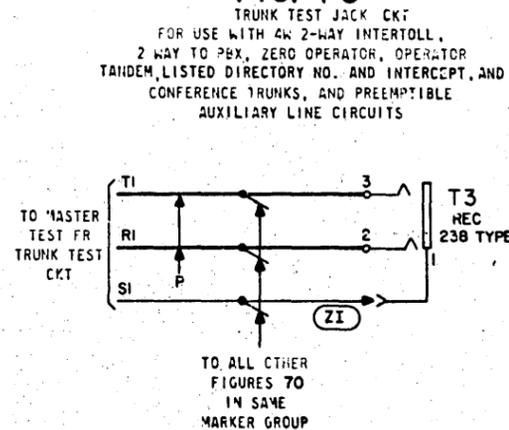


FIG. 70



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FIG. 73 (MFR DISC)
SENDER TEST JACK CKT FOR PPCS
SENDER FR
CROSS CONN FIG. 176

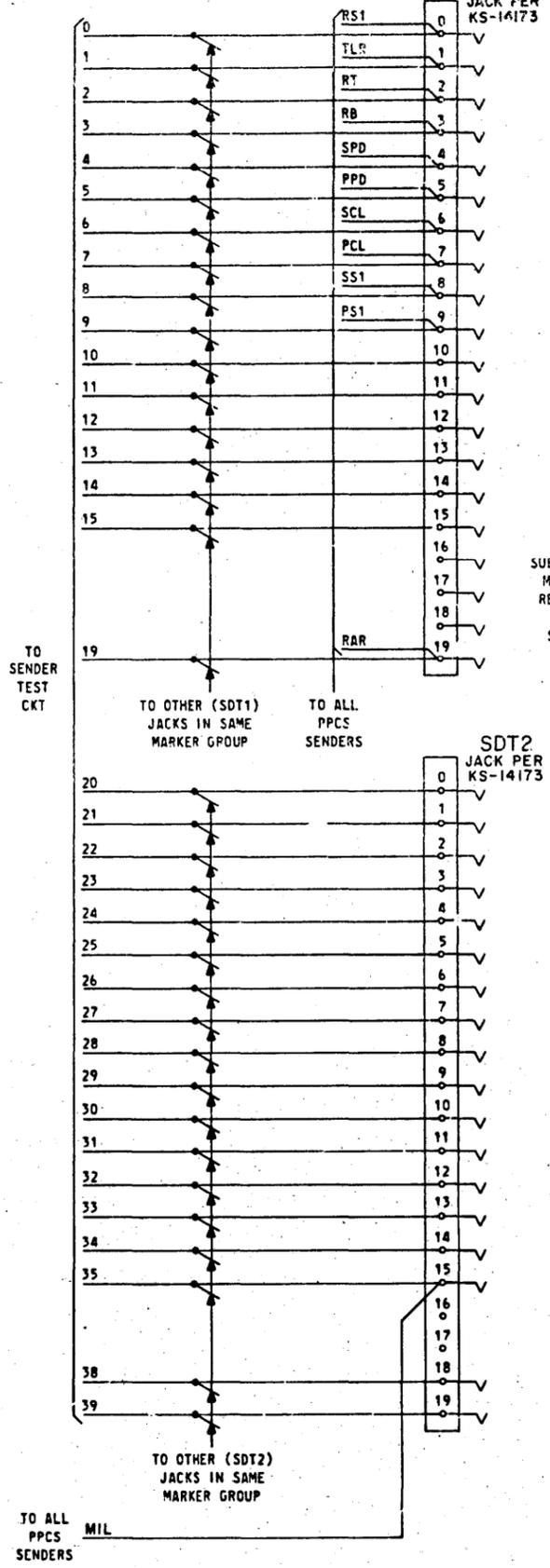


FIG. 74
22V AC FUSE ALARM RELAY CKT
CROSS CONN FIG.

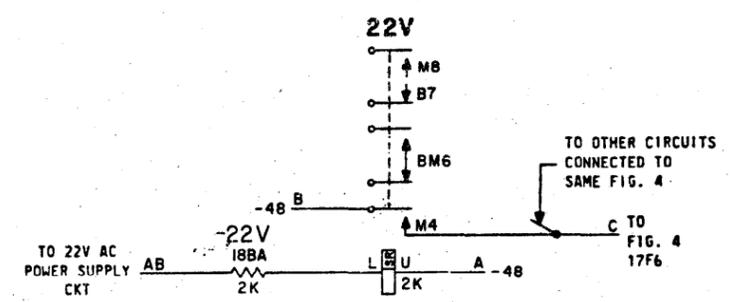


FIG. 75
FUSE AND FUSE ALARM RELAY
CKT FOR MESSAGE REGISTER
POTENTIALS ON MESSAGE TIMING FR
CROSS CONN FIGURES 138 AND 196

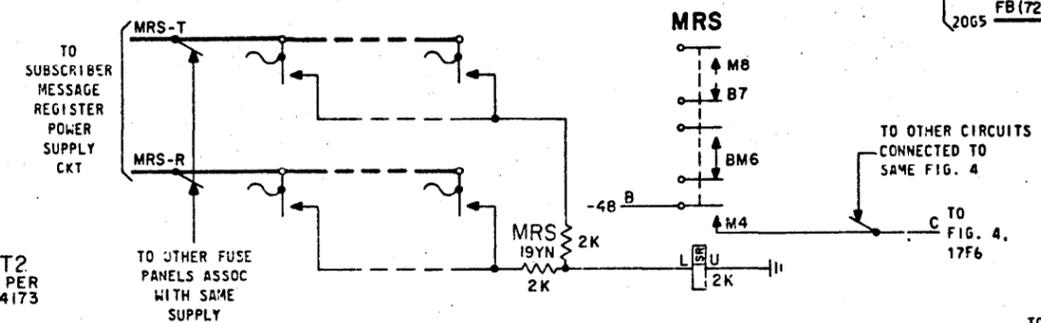


FIG. 76
-130V FR TEST BATTERY
JACK CKT
CROSS CONN FIG. 178

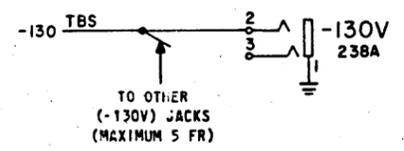


FIG. 77
ALARM RELEASE LEAD CONN
FOR COIN ZONE CONCENTRATOR FR
CROSS CONN FIG. 180

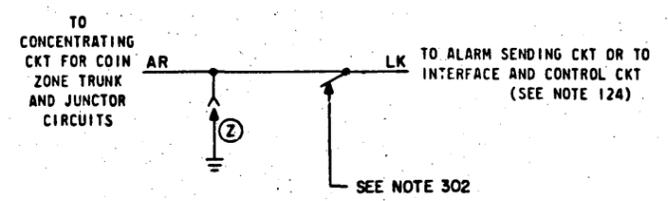


FIG. 78
-48 AND -72 TALKING BATTERY FUSE CKT
FOR RANGE EXTENDER FR

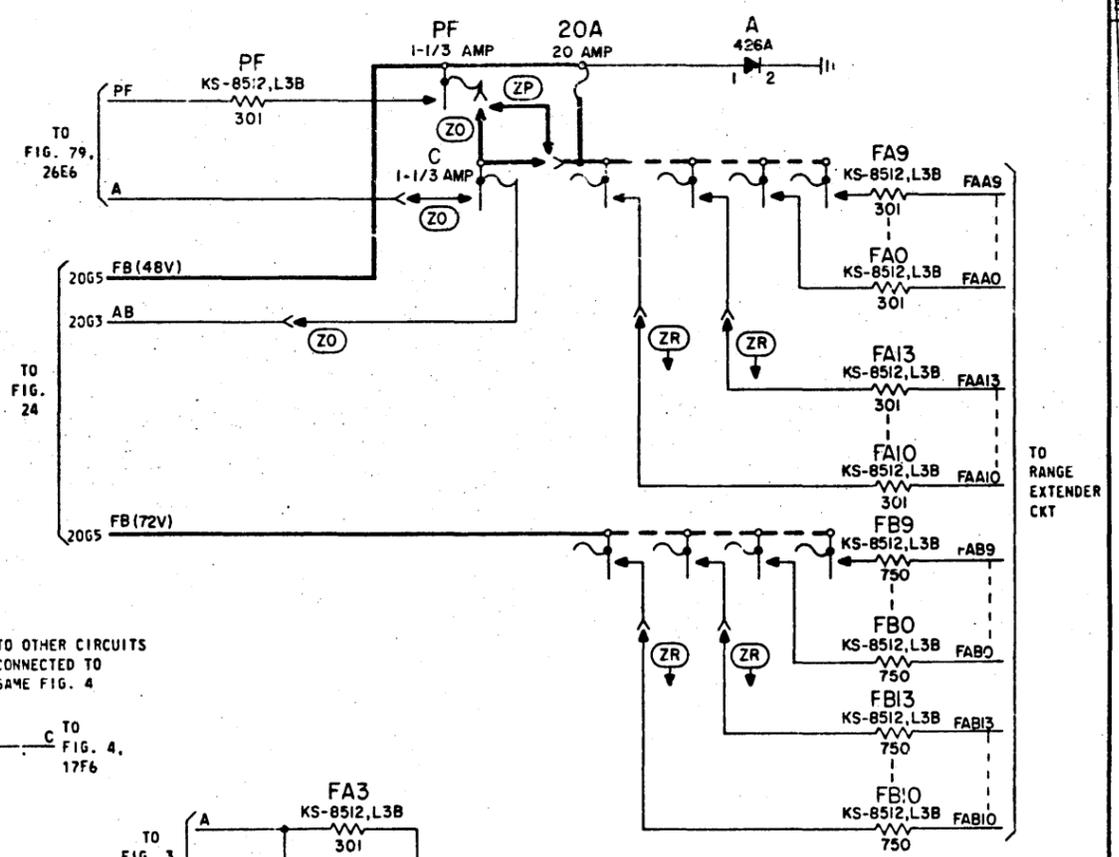


FIG. 79
-48 AND -72 FUS' ALARM CKT
FOR RANGE EXTENDER FR

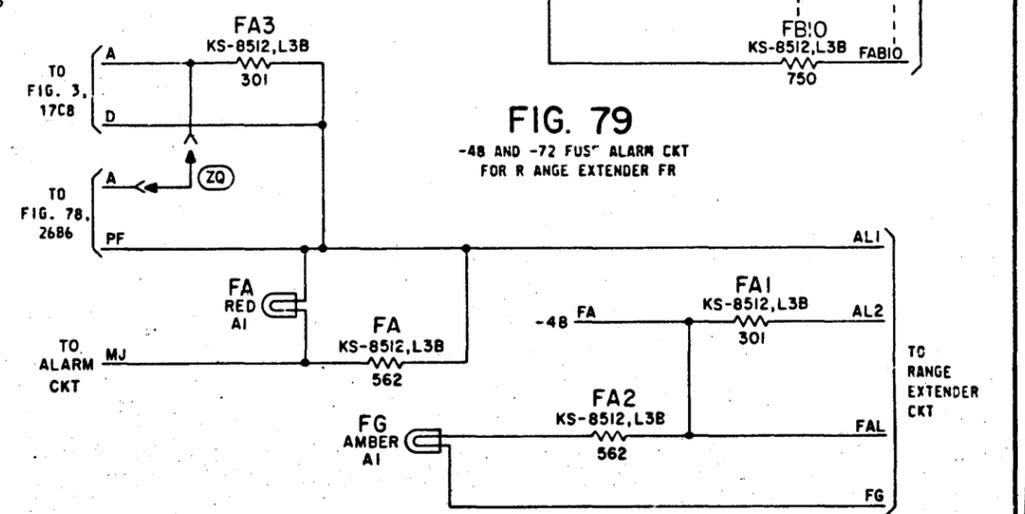
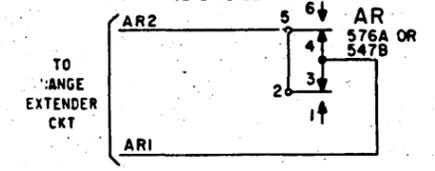


FIG. 80
ALARM RELEASE KEY CKT
FOR RANGE EXTENDER FR



A
B
C
D
E
F
G
H

A
B
C
D
E
F
G
H

4455 HIGGINS
MIL

DRAWING	JRR
ISSUE	288
REV	29D
REV	30D
REV	32D

FIG. 81
-48 TEST BAT. CKT
FOR PLANT REGISTER CABINET
CROSS CONN FIG. 185

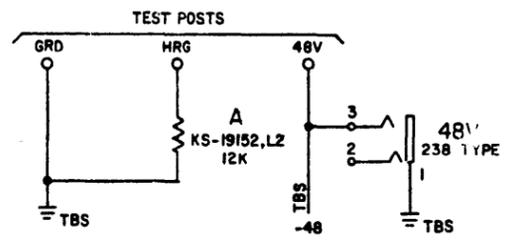


FIG. 85
TROUBLE RECORDER TIMING LAMP FOR
ROUTE TRANSLATOR FR
CROSS CONN FIG. 187

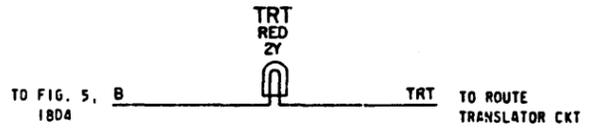


FIG. 88

TRANSLATOR ADMINISTRATION AND TEST
REMOTE CONTROL JACK CKT
CROSS CONN FIG. 188

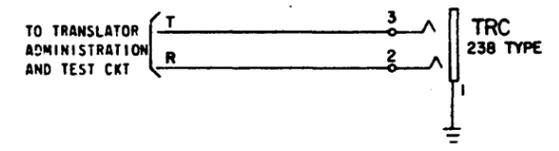


FIG. 82

MICRO SWITCH FOR PAPER TAKE-UP
ALARM IN AMA PERFORMATOR CABINET
CROSS CONN FIG. 184

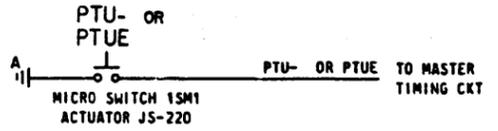


FIG. 86

FUSE ALARM AND FUSE GUARD LAMP CKT FOR ROUTE
DISTRIBUTOR FR AND FOR SUPPLEMENTARY ROUTE DISTRIBUTOR FR
CROSS CONN FIG. 191

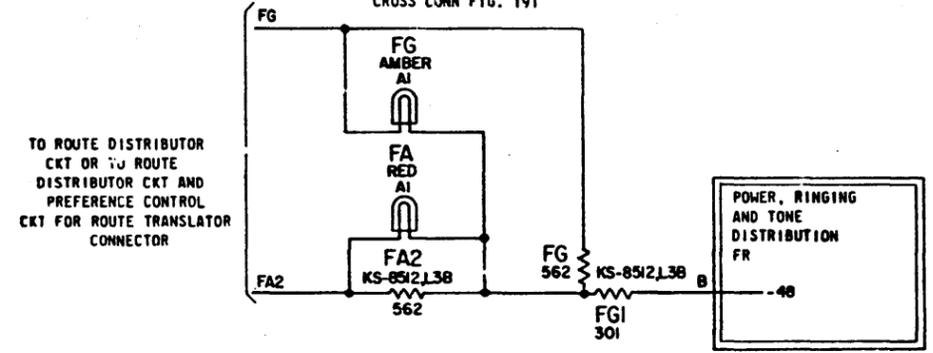


FIG. 89

GROUND FEEDER CKT

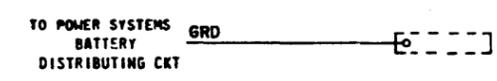


FIG. 83

-48 FUSE CKT FOR SELECTED TRUNK GROUP
TRAFFIC SAMPLE FR, AND SUPPLEMENTARY TRUNK
GROUP TRAFFIC SAMPLE FR

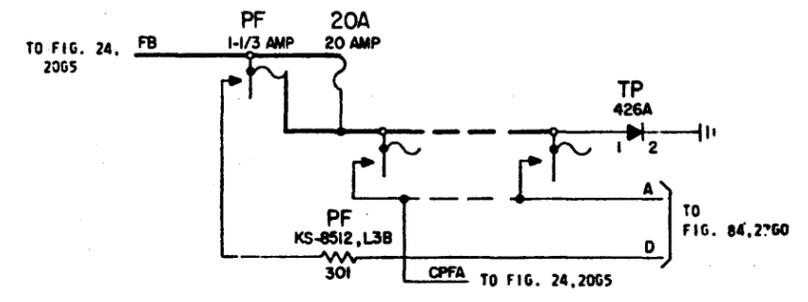


FIG. 90 (MFR DISC)

-48 FUSE CKT FOR TRUNK CONTROL FR (AMA-MTR)
AND MASTER TIMING FR (AMA-MTR)
CROSS CONN FIG. 195

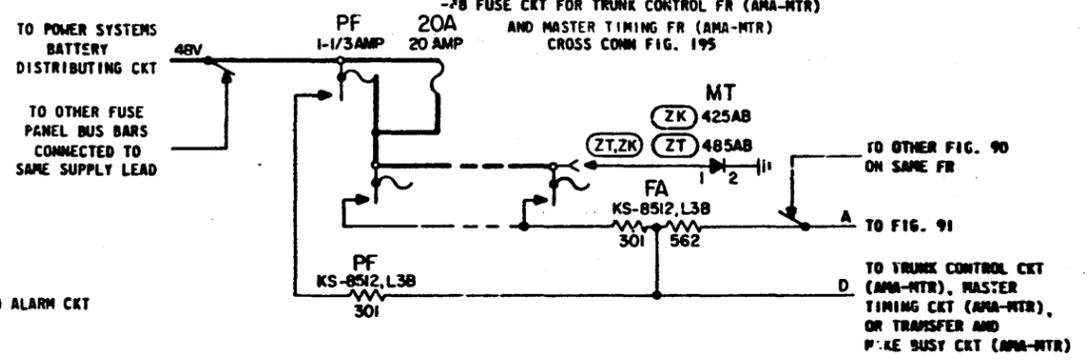


FIG. 87

FUSE ALARM CKT FOR ROUTE DISTRIBUTOR FR
AND FOR SUPPLEMENTARY ROUTE DISTRIBUTOR FR
CROSS CONN FIG. 190

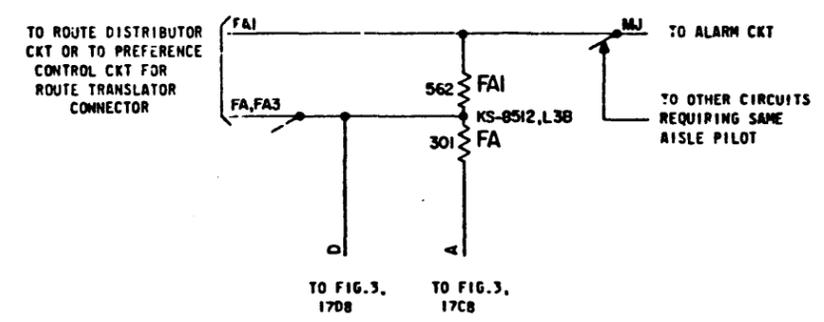
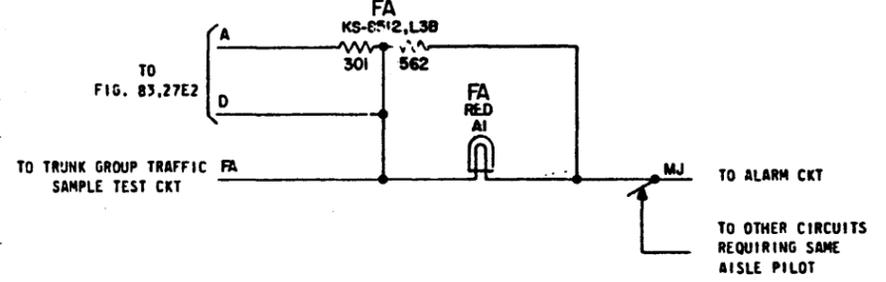


FIG. 84

-48 AND +130 FUSE ALARM CKT FOR SELECTED
TRUNK GROUP TRAFFIC SAMPLE FR AND SUPPLEMENTARY
TRUNK GROUP TRAFFIC SAMPLE FR
CROSS CONN FIG. 192



MISCELLANEOUS CIRCUIT

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FIG. 91 (MFR DISC)
 -48 FUSE ALARM CKT FOR TRUNK
 CONTROL FR (AMA-MTR) AND MASTER TIMING
 FR (AMA-MTR)
 CROSS CONN FIG. 193

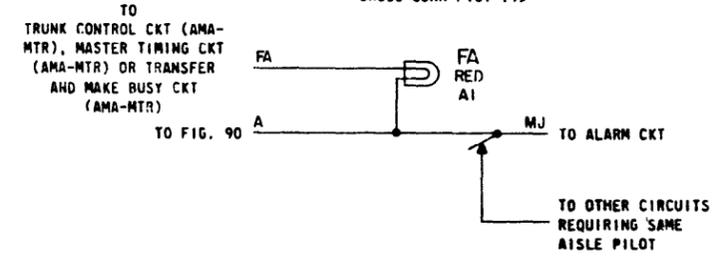


FIG. 94
 -48 FUSE CKT
 FOR IDDD PRETRANSLATOR FR
 CROSS CONN FIG. 158

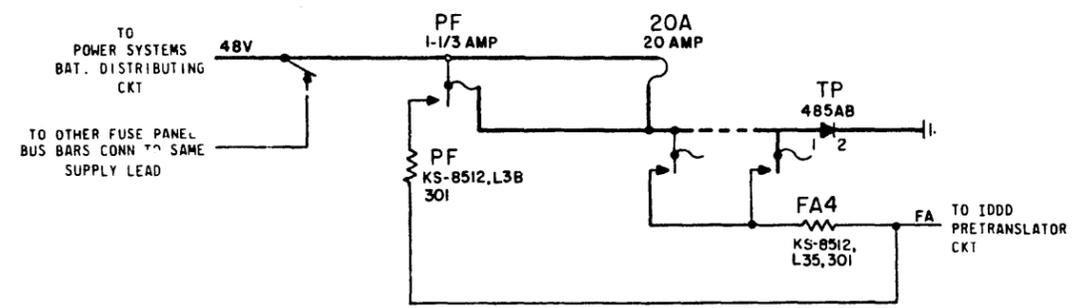


FIG. 95 (A&M ONLY)
 CONNECTOR FOR USE WITH
 IA PULSING ANALYZER

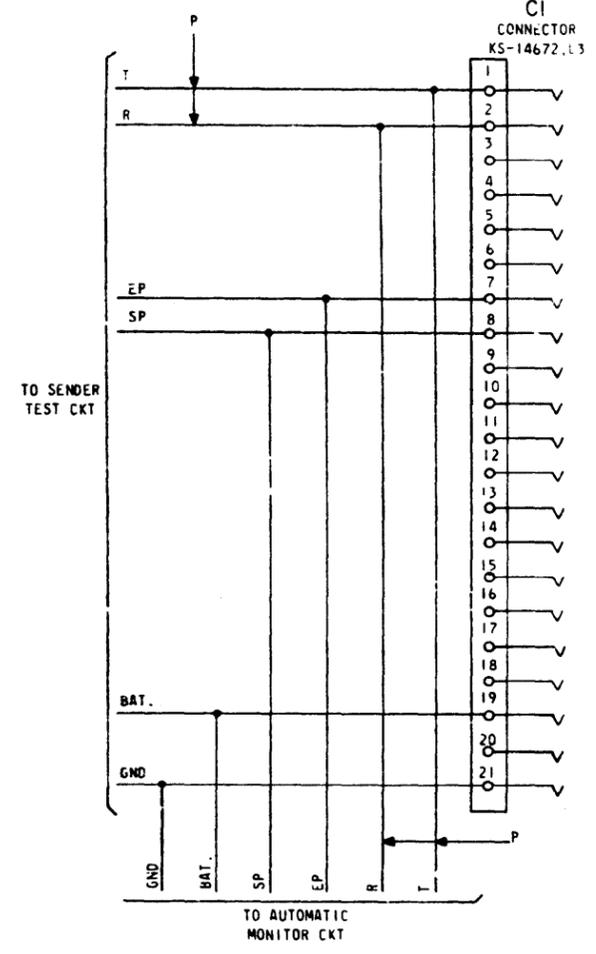


FIG. 92 (MFR DISC)
 FUSE GUARD LAMP CKT FOR
 MASTER TIMING FR (AMA-MTR)
 CROSS CONN FIG. 194

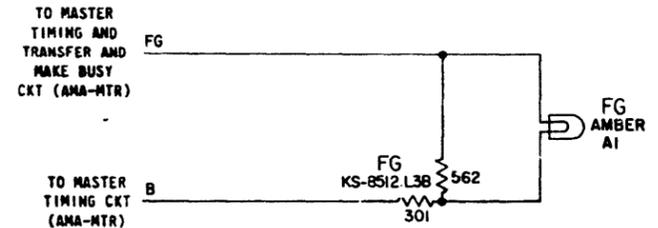


FIG. 93
 ALARM RELEASE KEY FOR MARKER WIDEBAND FR
 CROSS CONN FIG. 154

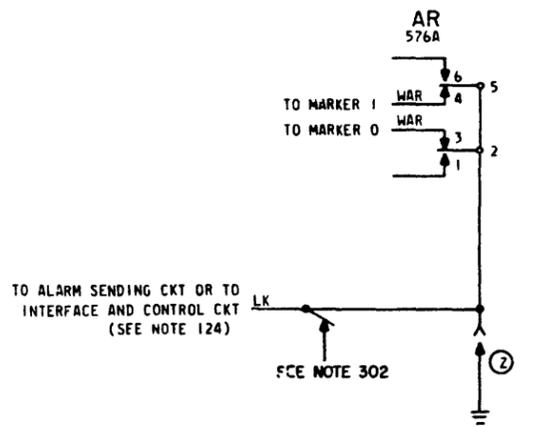


FIG. 96

MASTER TEST FR
REMOTE CONTROL JACK CKT FOR
MKR AND TV FRAMES

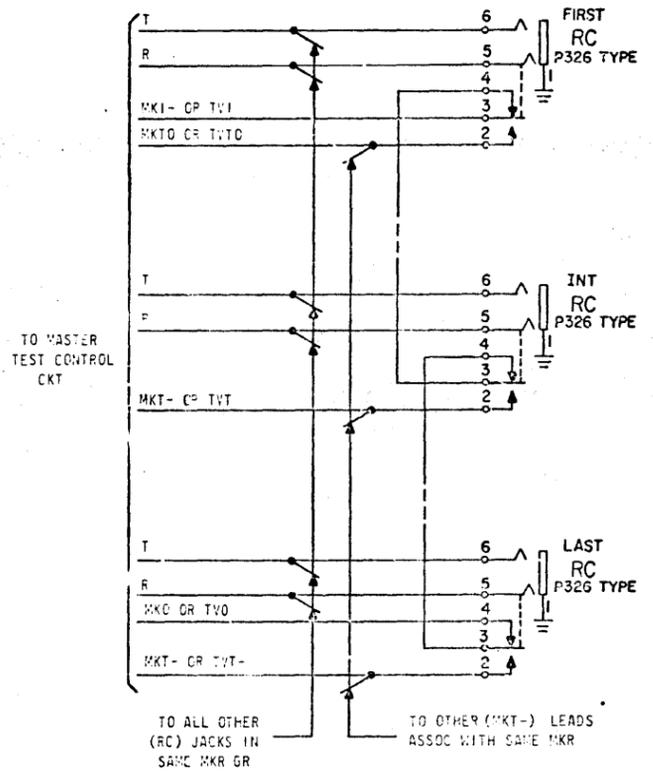


FIG. 97

1014A HANDSET

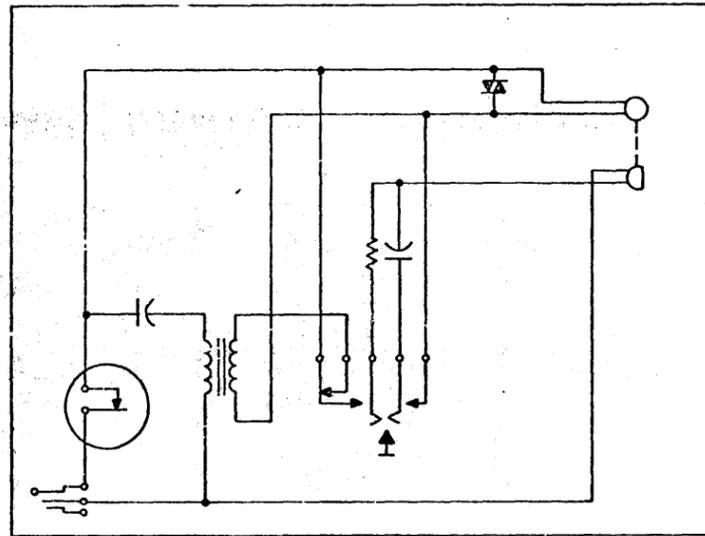
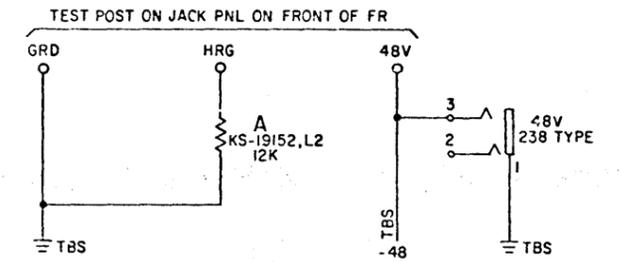


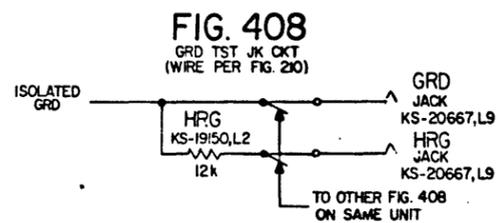
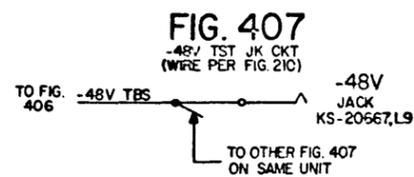
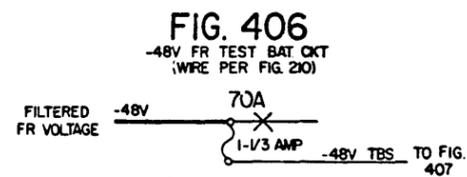
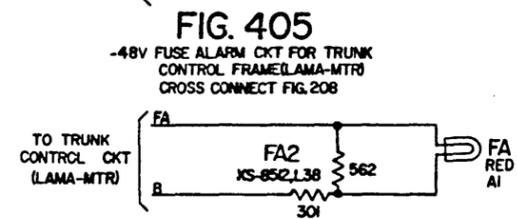
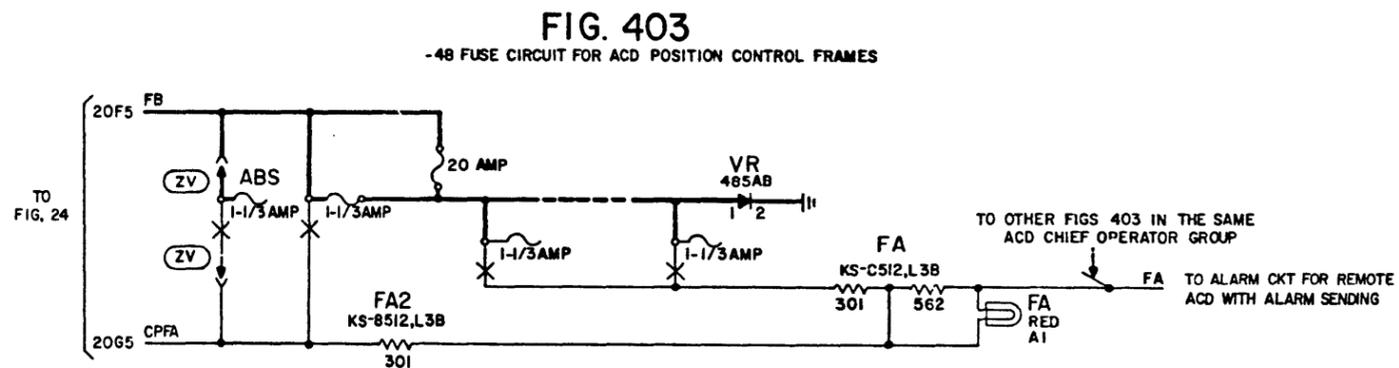
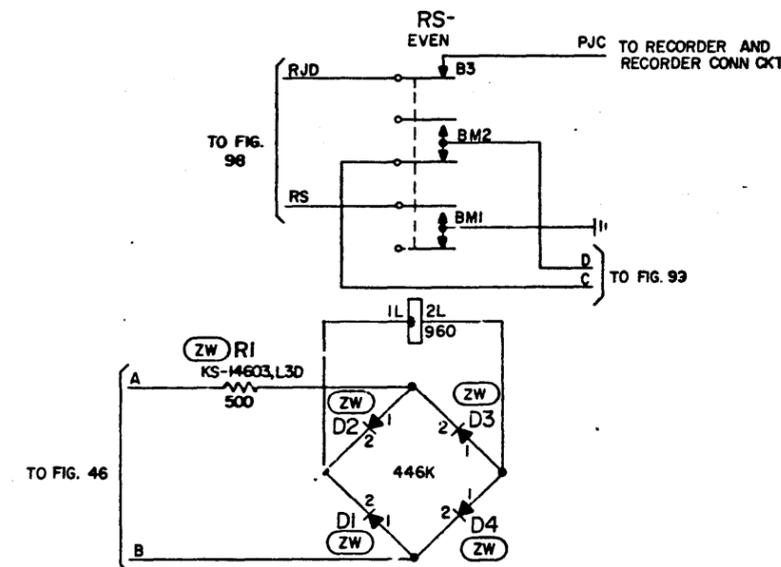
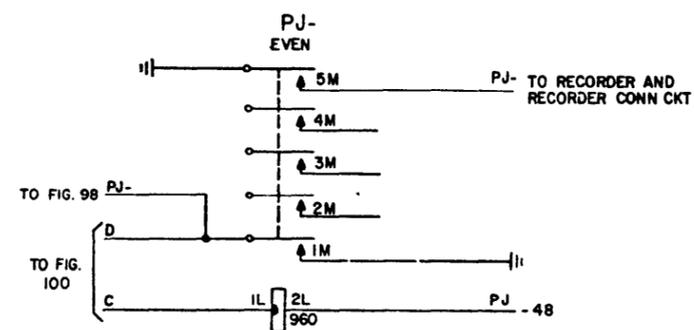
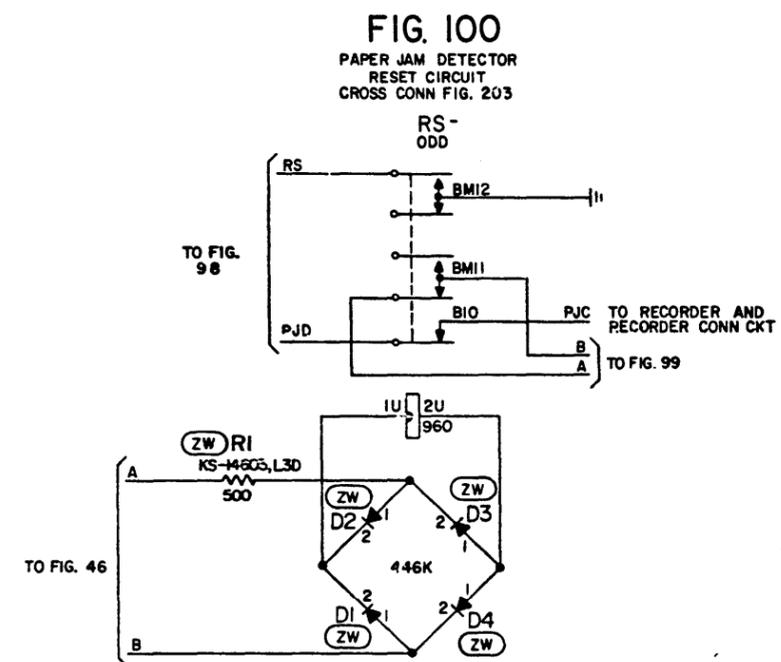
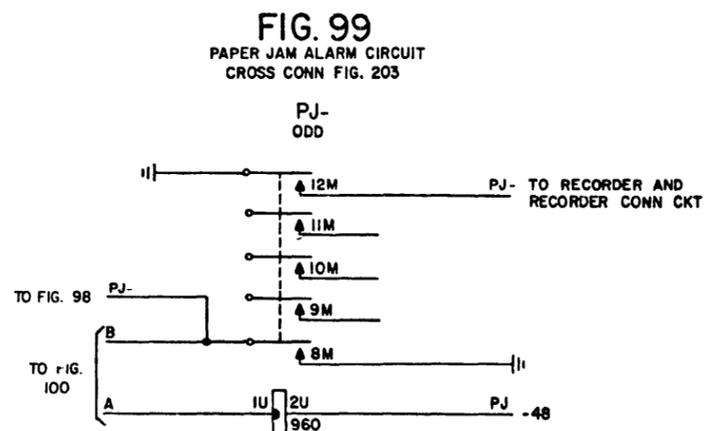
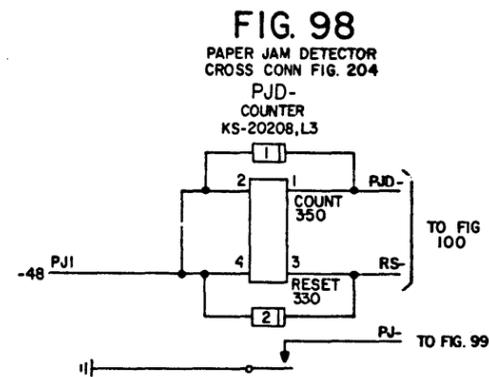
FIG. A

-48 FR TEST BAT. CKT



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ISSUE
43C



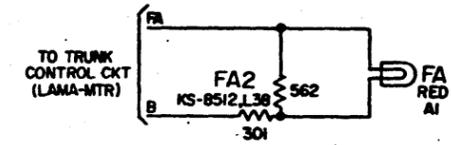
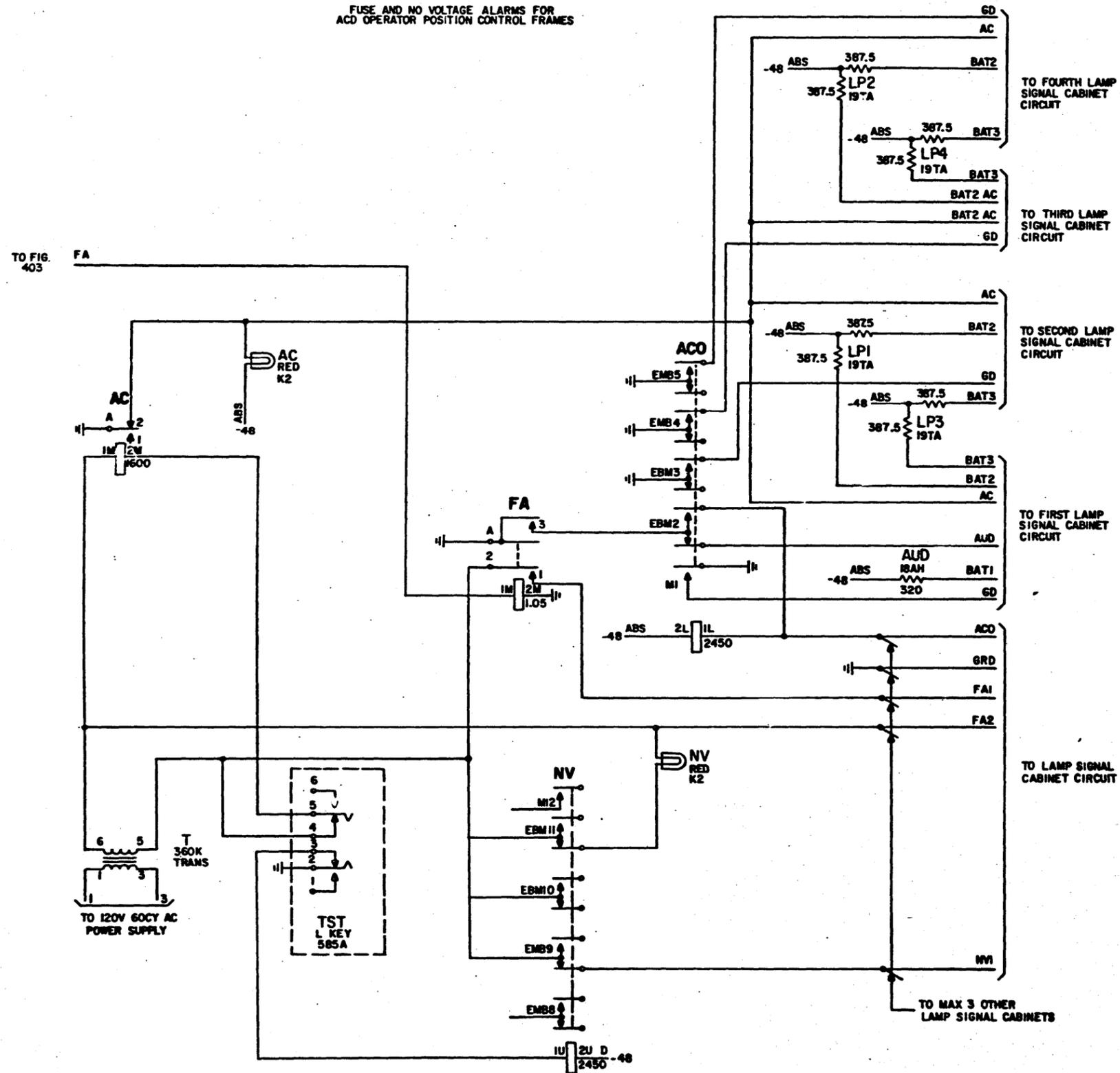
SD-25574-01-28C

FIG. 404

FUSE AND NO VOLTAGE ALARMS FOR
ACD OPERATOR POSITION CONTROL FRAMES

FIG. 405

-48V FUSE ALARM CKT FOR TRUNK
CONTROL FRAME(LAMA-MTR)
CROSS CONNECT FIG. 208



SD-25574-01-2311

47AC

CIRCUIT REQUIREMENTS

DRAWING
ISSUE

APPARATUS			MECH REQ			CIRCUIT PREPARATION			DIRECT CURRENT FLOW REQ			REMARKS					
DESIG	CODE	OPT.	LOC	BSP FIG.	CONT PRES	ARM. TRVL	BLOCK OR INSULATE	TEST CLIP DATA		TEST SET PREP	SEE TEST NOTE		TEST WDG	TEST FOR	AFTER SOAK		
								CONN BAT.	CONN GRD						TEST MA	TEST MA	RE-JJ MA
RELAYS																	
22V	AGB		74 26A4	44D				U(2.0)	GRD			0	20	7.7	7.3		
								U(22.0)	GRD			H	20	1.1	1.0		
								U(22V)	GRD			R	20	0.7	0.7		
CCRC- CCR3	14E MR		69 26C5					LT1	REG TEST			0		31.5	30		
												R		3.8	4		
V	Y288		54 23E5	115/115	H	29		B(M)	BAT			0	FS	10.2	9.7		
								P(M)	BAT			H	FS		1.0		
								B(M)	BAT			R	FS	0.4	0.6		
MRS	AGB		75 26C5	44B				L(MRS)	BAT			0	20	7.7	7.3		
								L(MRS)	BAT			H	20	1.1	1.0		
								L(MRS)	BAT			R	20	0.9	0.7		
PJ-	AK2	99						8,12(PJ-ODD)		1U(PJ-ODD) GRD		0		12.7	11.5	MTD WITH PJ-EVEN	
								1,5(PJ-EVEN)		1L(PJ-EVEN) GRD		0		12.7	11.5	MTD WITH PJ-ODD	
PJD-	COUNTER KS-2020E L3	98								1(PJD-) GRD	COUNT	0		130			
										3(PJD-) GRD	RESET	0		140			
RS-	AK38	100		13				12M(RS-ODD)	24(RS-ODD)	1U(RS-ODD) B/G	I	0		12.5	11.3	MTD WITH RS-EVEN	
								1M(RS-EVEN)	2L(RS-EVEN)	1L(RS-EVEN) B/G	I	0		12.5	11.3	MTD WITH RS-ODD	

TEST NOTES:
1. DISCONNECT LEAD B FROM FIG.46.

SD-25574-01-29

SD-

BELL TELEPHONE LABORATORIES
INCORPORATED

PRINTED IN U.S.A.

MISCELLANEOUS CIRCUIT

2 SD-25574-01-29

BELL TELEPHONE LABORATORIES
INCORPORATED

6S

ISSUE
49A

FIG. 101 (MFR DISC)

(FOR FIGURES 2 AND 8) REPLACED BY FIG. 158 PRETRANSLATOR FR

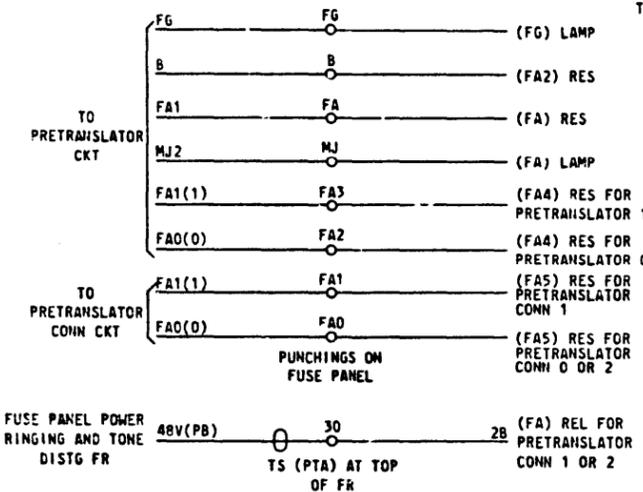


FIG. 102

(FOR FIG. 4) PERFORATOR CABINET

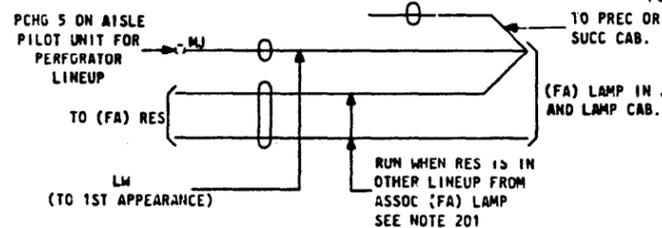


FIG. 103

(FOR FIGURES 4, 5, 6, 7, AND 8)

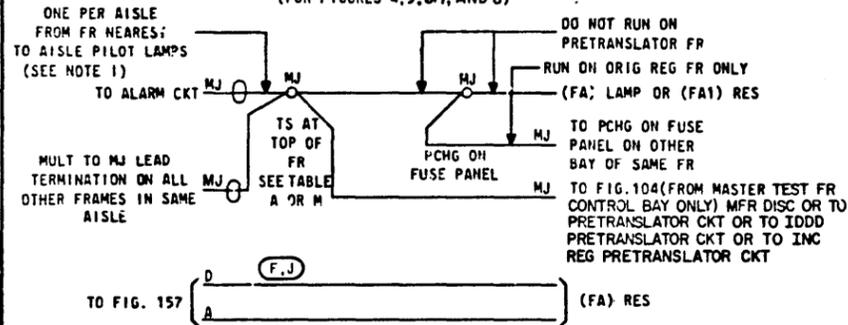


FIG. 104 (MFR DISC)

(FOR FIG. 7) REPLACED BY FIG. 103 MASTER TEST FR

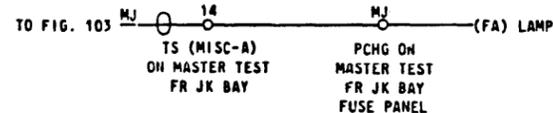


FIG. 105

(FOR FIG. 9)

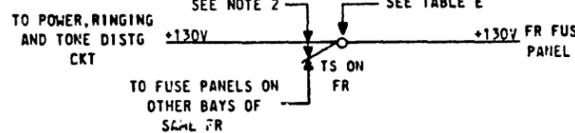


FIG. 106 (A & M ONLY)

(FOR FIG. 13) COMBINED OR COMPLETING MARKER FR EXCEPT CAMA FR

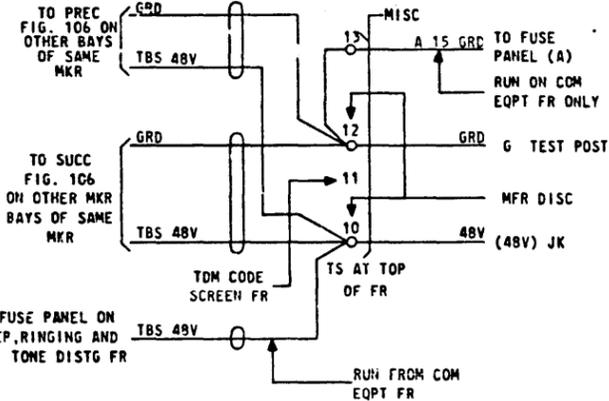


FIG. 107

(FOR FIG. 13)

MASTER TIMING FR, MANUAL OUTGOING TRK TEST FR, LAMA & MAMA TRANSVERTER FR, FOR AREA TRANSLATOR FR, FOR AREA TRANSLATOR CONN FR, ORIG REG LINE MEMORY FR, LINE LINK MKR CONN, MFR DISC, TRK LK CONN CONTROL FR, NO. GR CONN CONTROL FR, AUX TRK LK CONN FR, (WS) SUPPLEMENTARY LINE LINK MKR CONN FR, MFR DISC 4W TRK PREEMPTION GR FR, 4W TRK GR CONN FR FOR EIGHT MARKERS, 4W TRK GR CONN FR FOR FOUR MARKERS, ROUTE DISTRIBUTOR FR, SUPPLEMENTARY ROUTE DISTRIBUTOR FR, ROUTE TRANSLATOR FR, ACD-MKR FR, ACD-FCR FR, REL RACK FR FOR MOUNTING ACD AND CONT. UNITS.

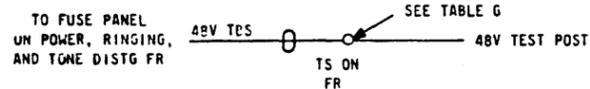


FIG. 108

(FOR FIG. 13)

ORIGINATING REG MARKER CONN FR OUTGOING SENDER CONN FR

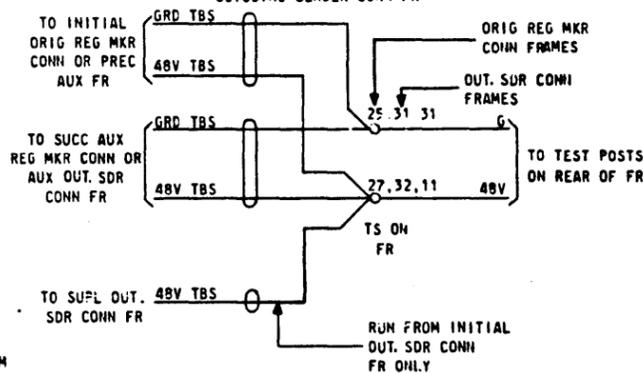


FIG. 109

(FOR FIG. 13) NO. GR FR

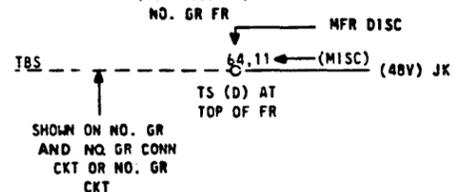


FIG. 110

(FOR FIG. 13) TRK LINK FR

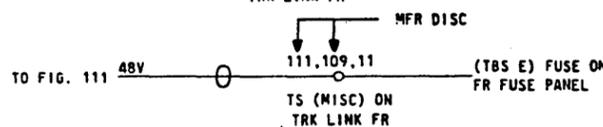


FIG. 111

(FOR FIG. 13)

EXTENSION TRK LINK FR (MFR DISC) OR AUXILIARY TWO TRK LINK FR

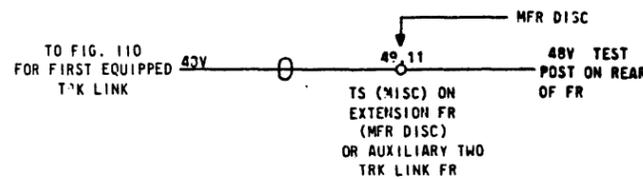


FIG. 112 (MFR DISC)

SEE NOTES 203 AND 205 SEE FIG. 165

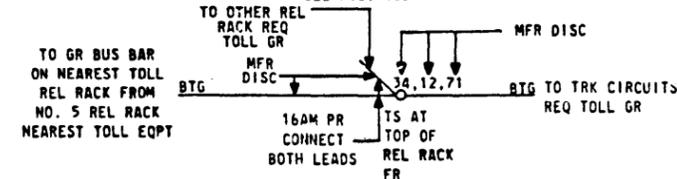


FIG. 113

(FOR FIG. 15)

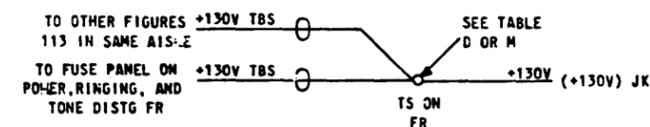


FIG. 114

(FOR FIG. 16)

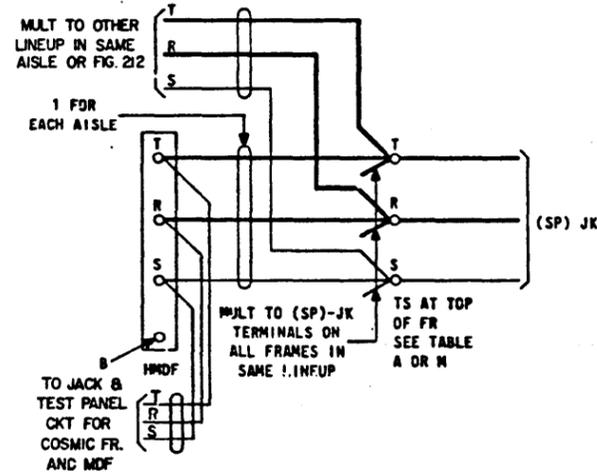
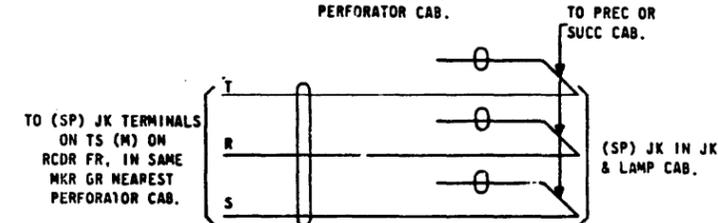


FIG. 115

(FOR FIG. 16) PERFORATOR CAB.



NOTES:

- 1. WHEN PLANT REGISTER CABINET IS NOT LOCATED IN FR LINE-UP, THIS LEAD SHALL BE RUN TO AISLE PILOT UNIT FOR PLANT REGISTER CABINET.
2. FOR MARKER FRAMES THIS LEAD MUST BE 20 GAUGE WIRE.

Table with columns for DRAWING ISSUE, 286, 290, 320, 370, 390, 400.

ISSUE 54A

MISCELLANEOUS CIRCUIT

2

SD-25574-0i-30

BELL TELEPHONE LABORATORIES INCORPORATED

6S

SD-25574-0i-30

FIG. 116
(FOR FIG. 17)

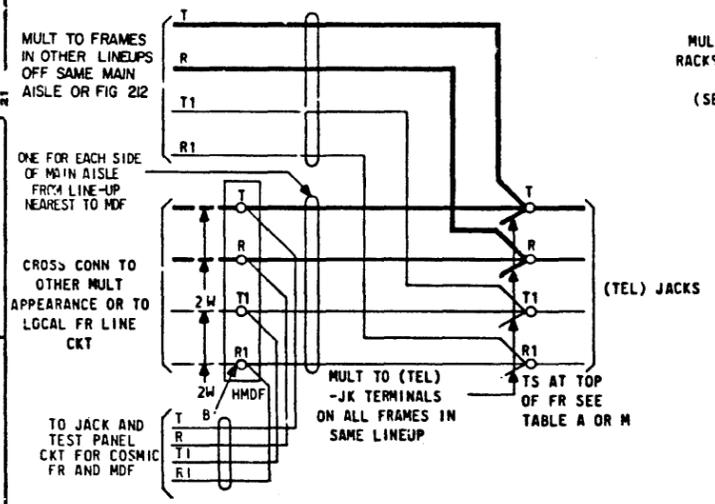


FIG. 119
(FOR FIG. 20)
RELAY RACK

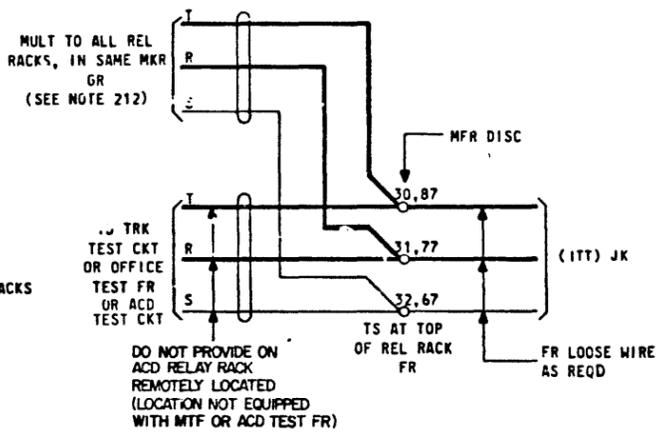


FIG. 123
(FOR FIG. 29)
MSG REG FR, MSG TIMING FR OR
MSG REG UNIT ON REL RACK

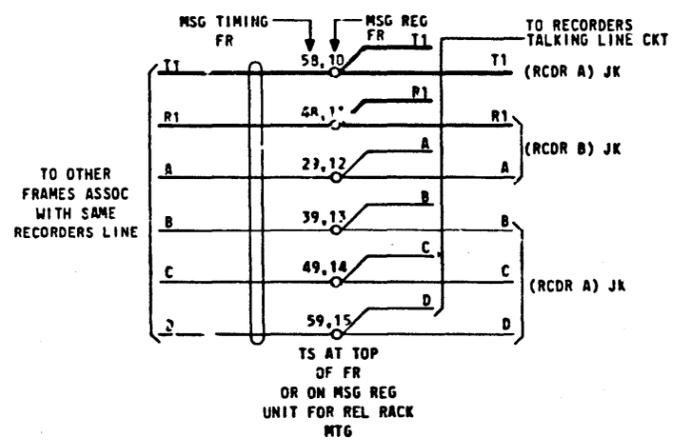


FIG. 126 (MFR DISC)
(FOR FIG. 40)
LINE LINK FR

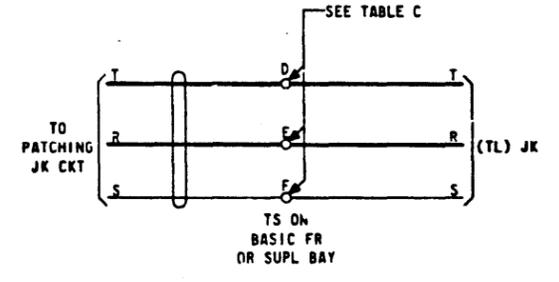


FIG. 127 (MFR DISC)
(FOR FIG. 41)
LINE LINK FR

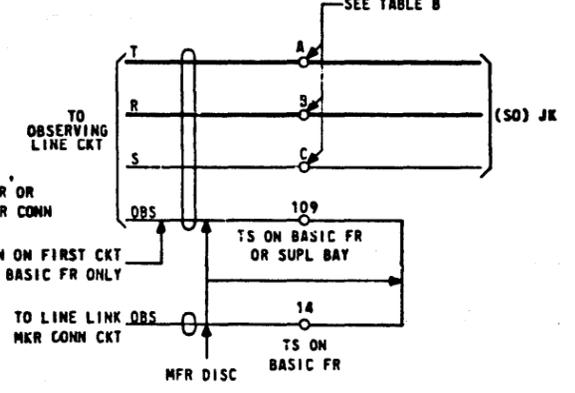


FIG. 117
(FOR FIG. 17)
PERFORATOR CAB.

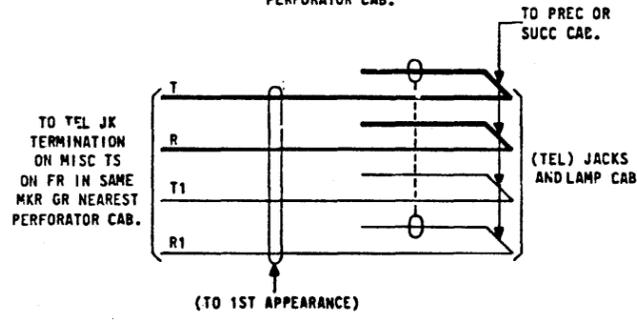


FIG. 120
(FOR FIG. 21)

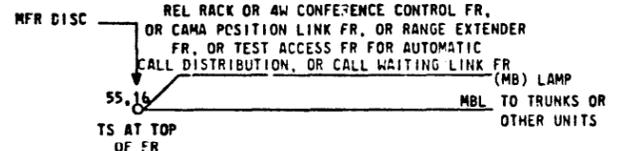


FIG. 124 (MFR DISC)
REPLACED BY FIG. 154
(FOR FIGURES 32 AND 35)
SEE FIG. 140

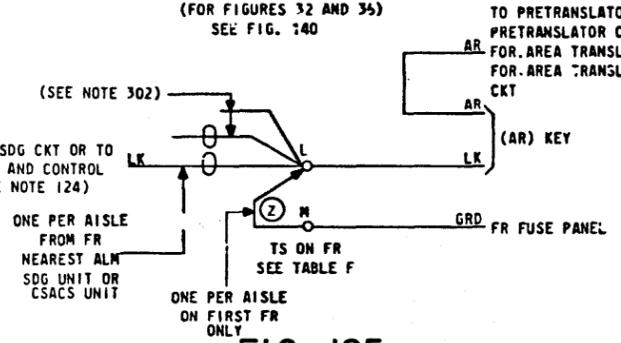


FIG. 121
(FOR FIG. 22)
REL RACK

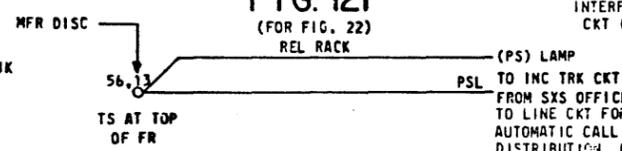


FIG. 125
(FOR FIG. 38)
MASTER TIMING FR

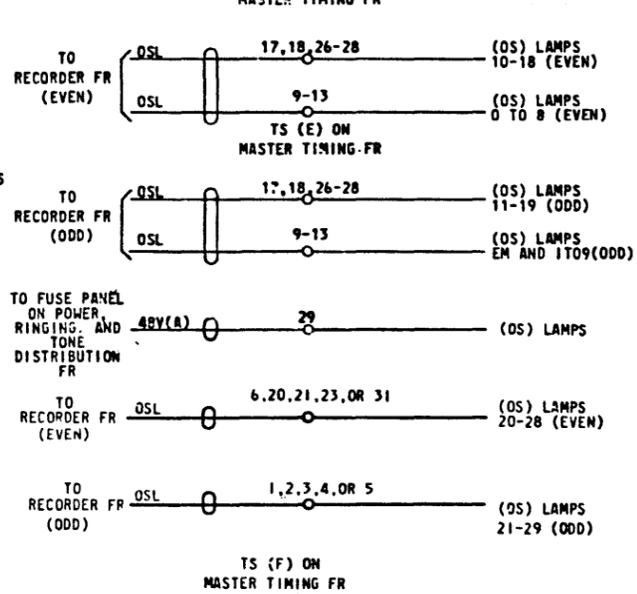


FIG. 128
(FOR FIG. 43)
RECORDER FR

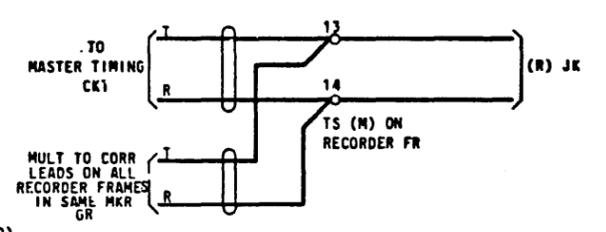


FIG. 118 (MFR DISC)
(FOR FIG. 19) REPLACED BY FIG. 151

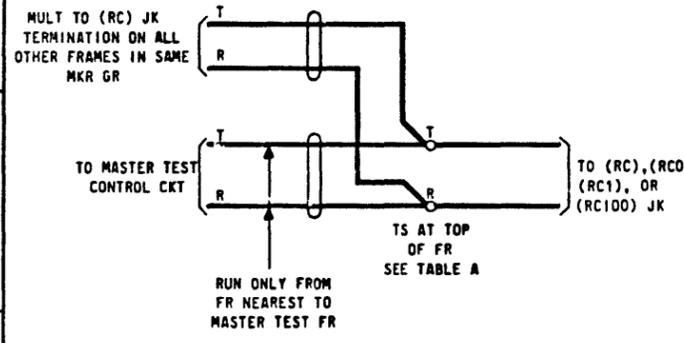
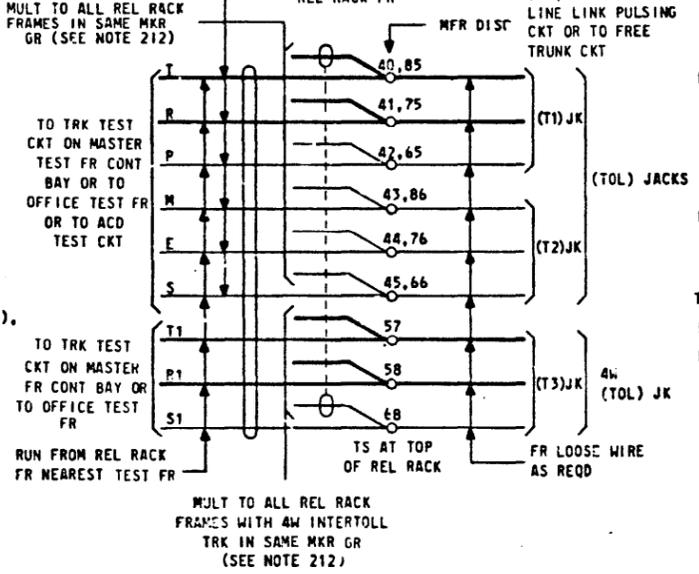


FIG. 122
(FOR FIGURES 23 AND 70)
REL RACK FR



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FIG. 129
(FOR FIG. 43)
PERFORATOR CAB.

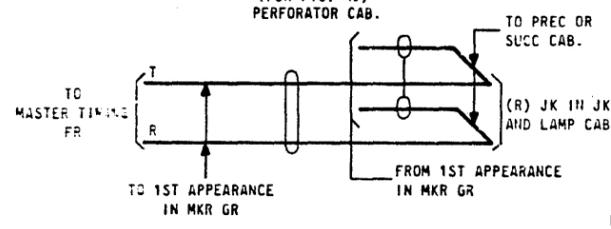


FIG. 133
(FOR FIG. 48)
RECORDER FR

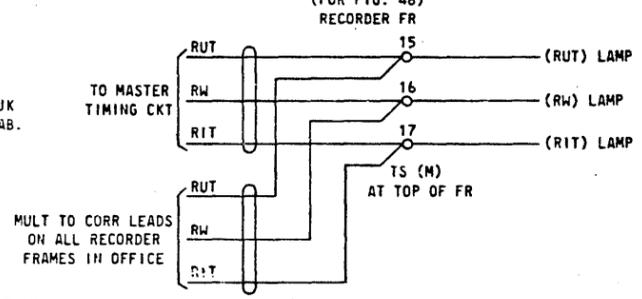


FIG. 136
(FOR FIG. 52)
MASTER TEST FR OR OFFICE
TEST FR OR ACD TEST FR
(MISC A), MFR DISC

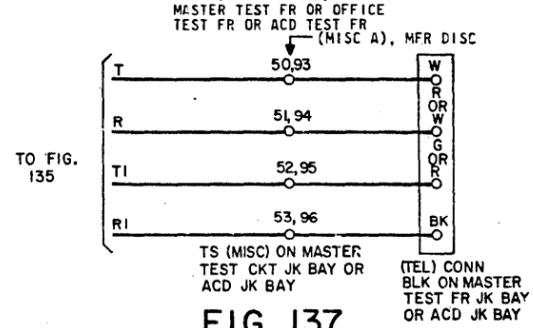


FIG. 139
(FOR FIGURES 55 AND 56)

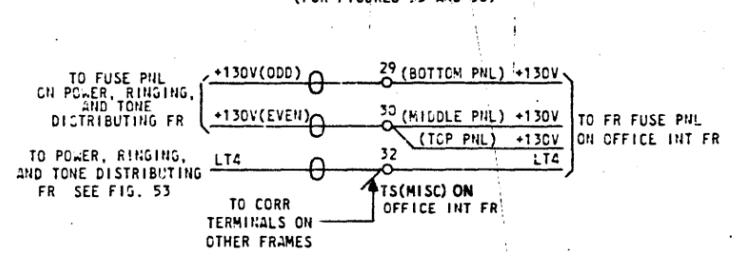


FIG. 130
(FOR FIG. 44)
PERFORATOR CAB.

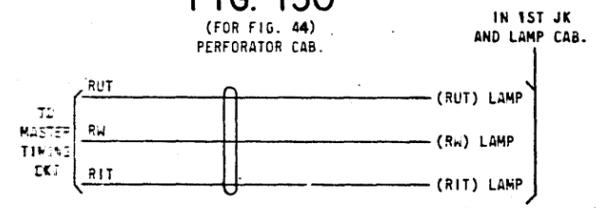


FIG. 134
(FOR FIG. 50)
REL RACK

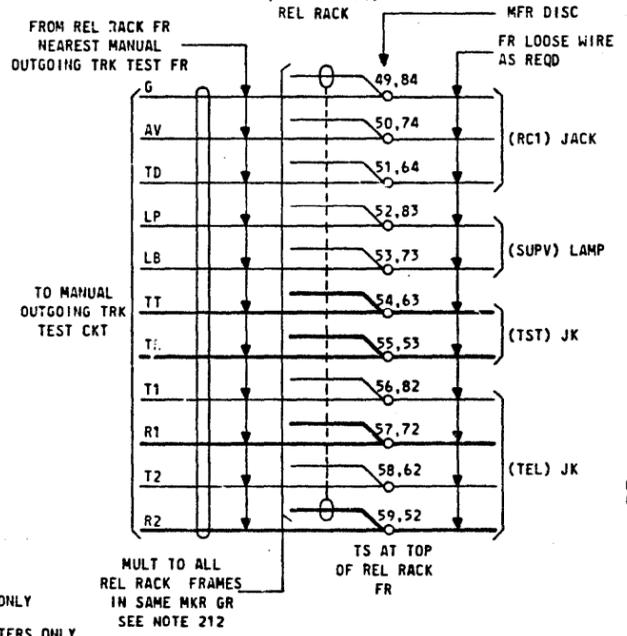


FIG. 137
(FOR FIG. 53)
PERFORATOR CAB.

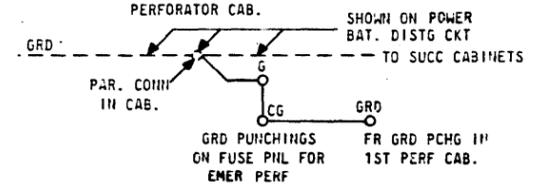


FIG. 140 (MFR DISC)
REPLACED BY FIG. 155
ALM SDG LK LEAD MULT AND
OPTION STRAP SEE FIG. 124 AND
NOTE 205

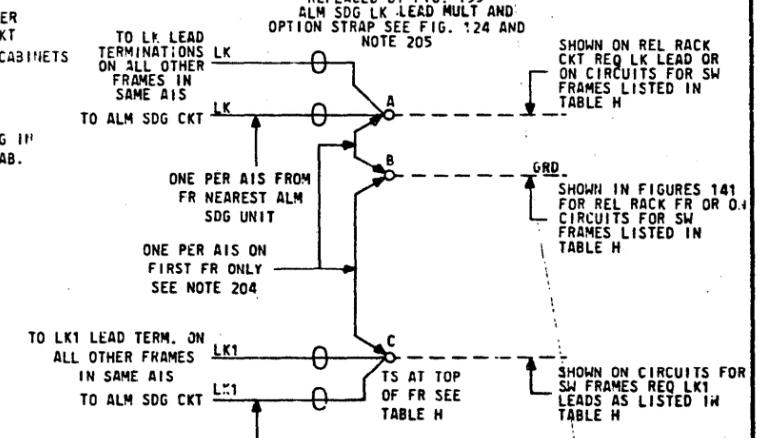


FIG. 131
(FOR FIG. 45)
PERFORATOR CAB.

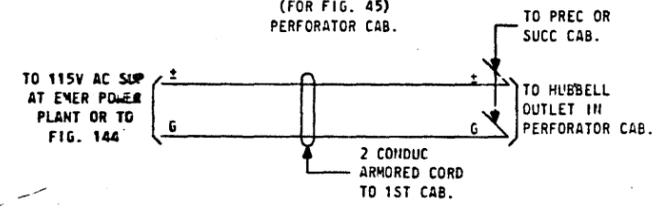


FIG. 138 (MFR DISC)
(FOR FIG. 54, 75)
MSG REG, MSG TIMING FR
OR MSG REG UNIT
(100 CAP.) ON REL RACK

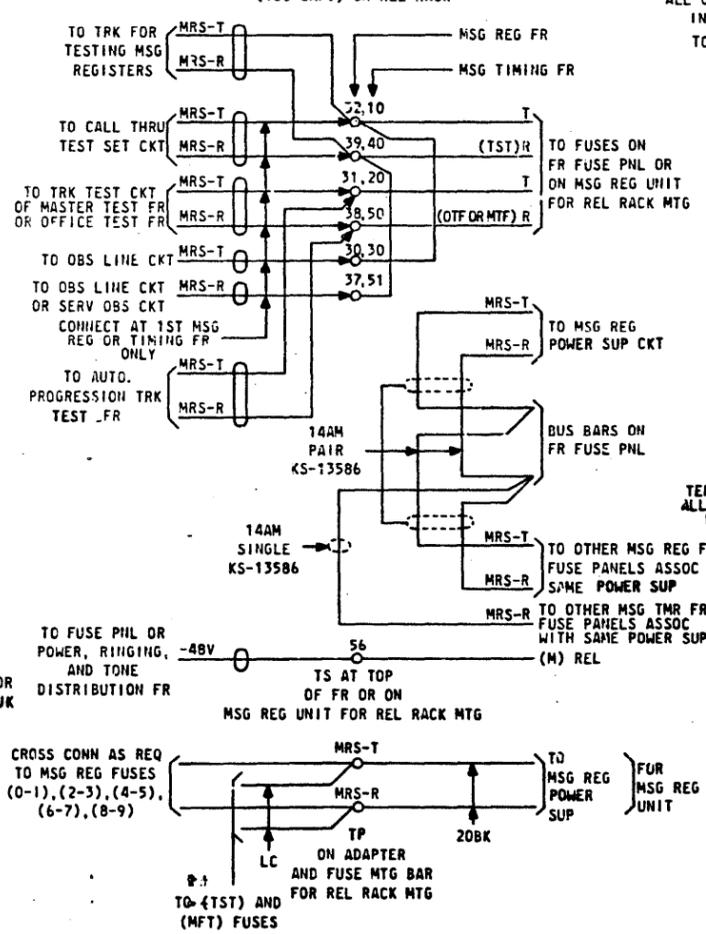


FIG. 141 (MFR DISC)
FR TS GRD
SEE NOTE 205

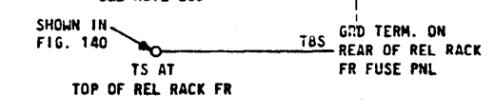


FIG. 132
(FOR FIG. 47)
INCOMING REG FR
TANDEM INCOMING RP REG FR
MASTER TEST FR CONTROL BAYS

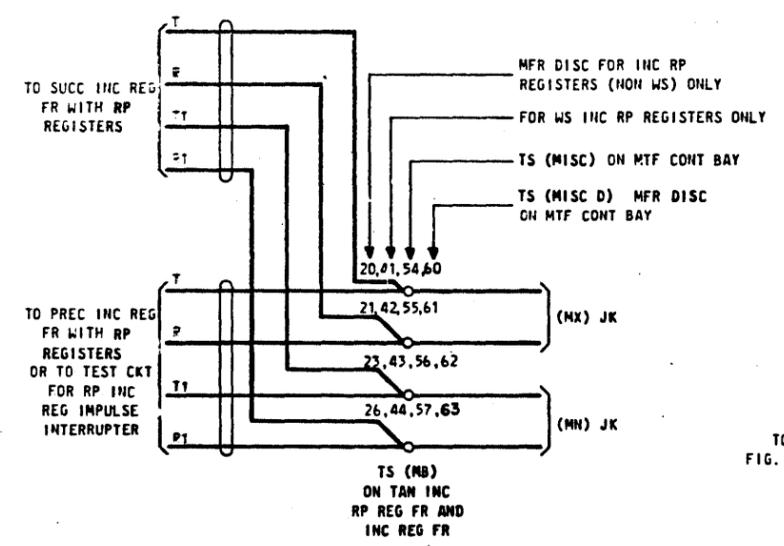


FIG. 135
(FOR FIG. 51)
MASTER TEST FR OR
OFFICE TEST FR OR
ACD TEST FR

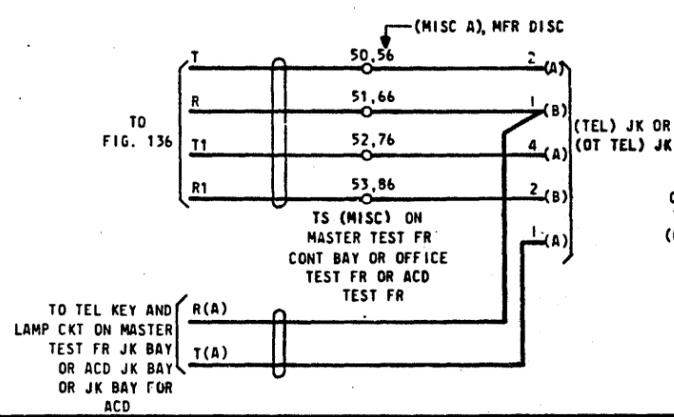
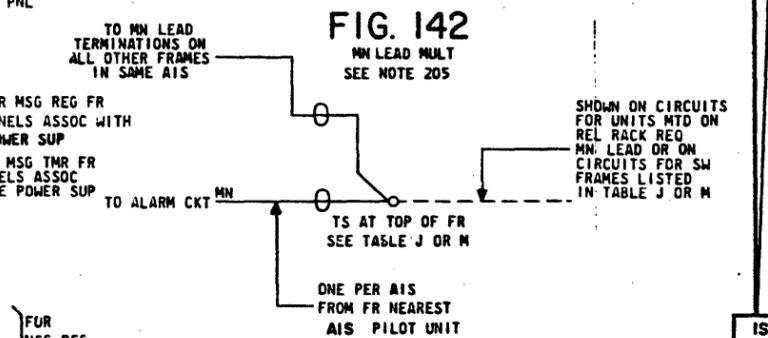


FIG. 142
MN LEAD MULT
SEE NOTE 205



SD-25574-01-32

FIG. 143 (FOR FIGURES 25 AND 26) MSG REG FR, MSG TIMING FR OR MSG REG UNIT ON REL RACK

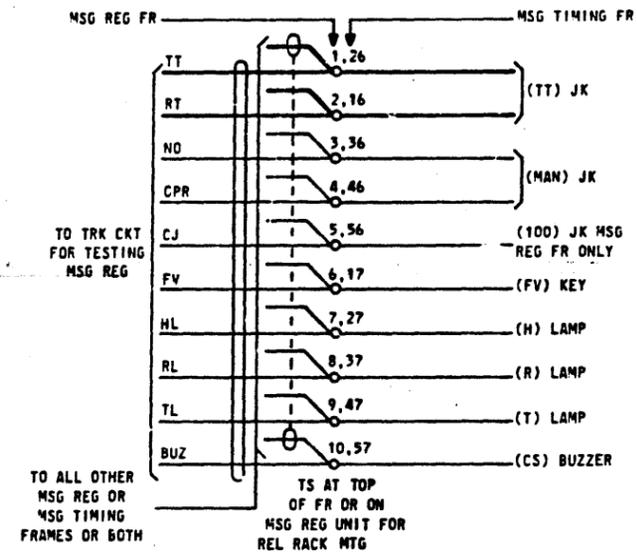


FIG. 146 (FOR FIGURES 61 AND 69) MFR DISC ON TS (MC) AT TOP OF ORIG REG FR

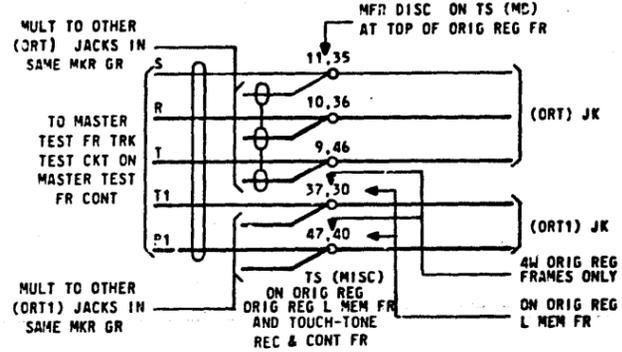


FIG. 147 (FOR FIG. 62) WIRE SPRING INC REG FR CAMA SDR FR, ORIG REG FR, REL RACK HAVING ORIG REQ TOUCH-TONE RECEIVER, CAMA TRUNKS, TRANSFER REG FR OR MF PULSING RCVR FR OR TOUCH-TONE REC & CONT FR

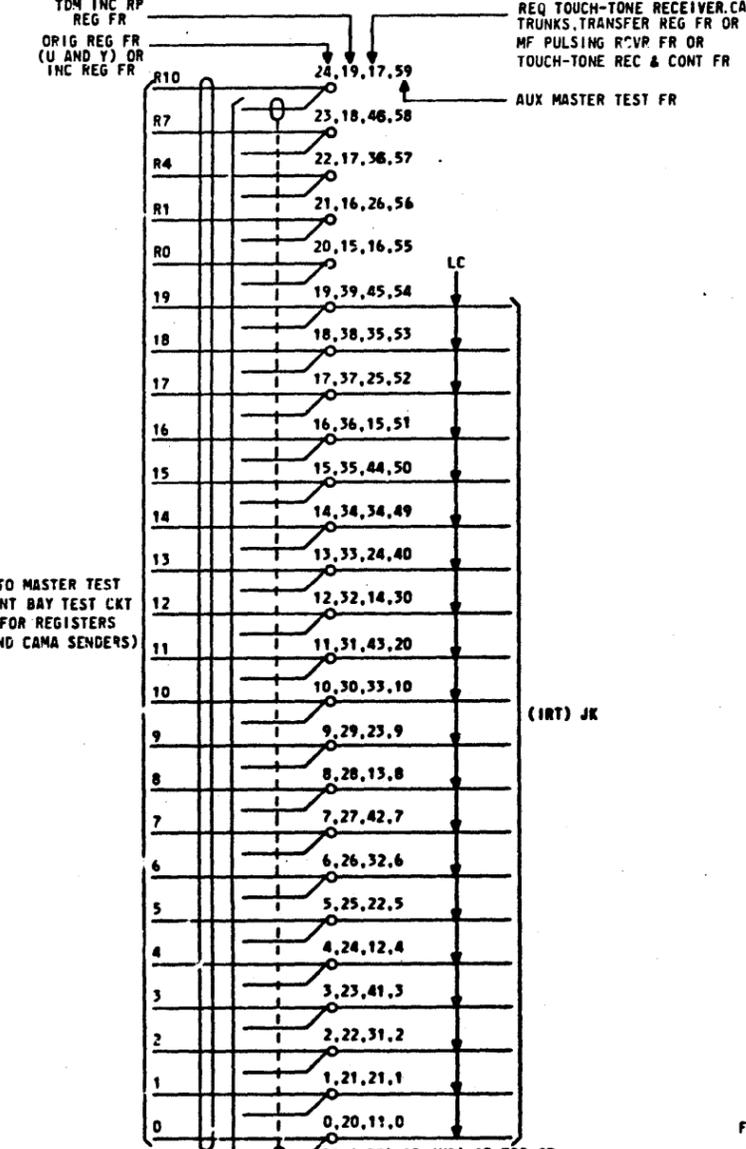


FIG. 148 (FOR FIG. 63) AUX MASTER TEST FR OR SDR FR WIRE SPRING SDR FR

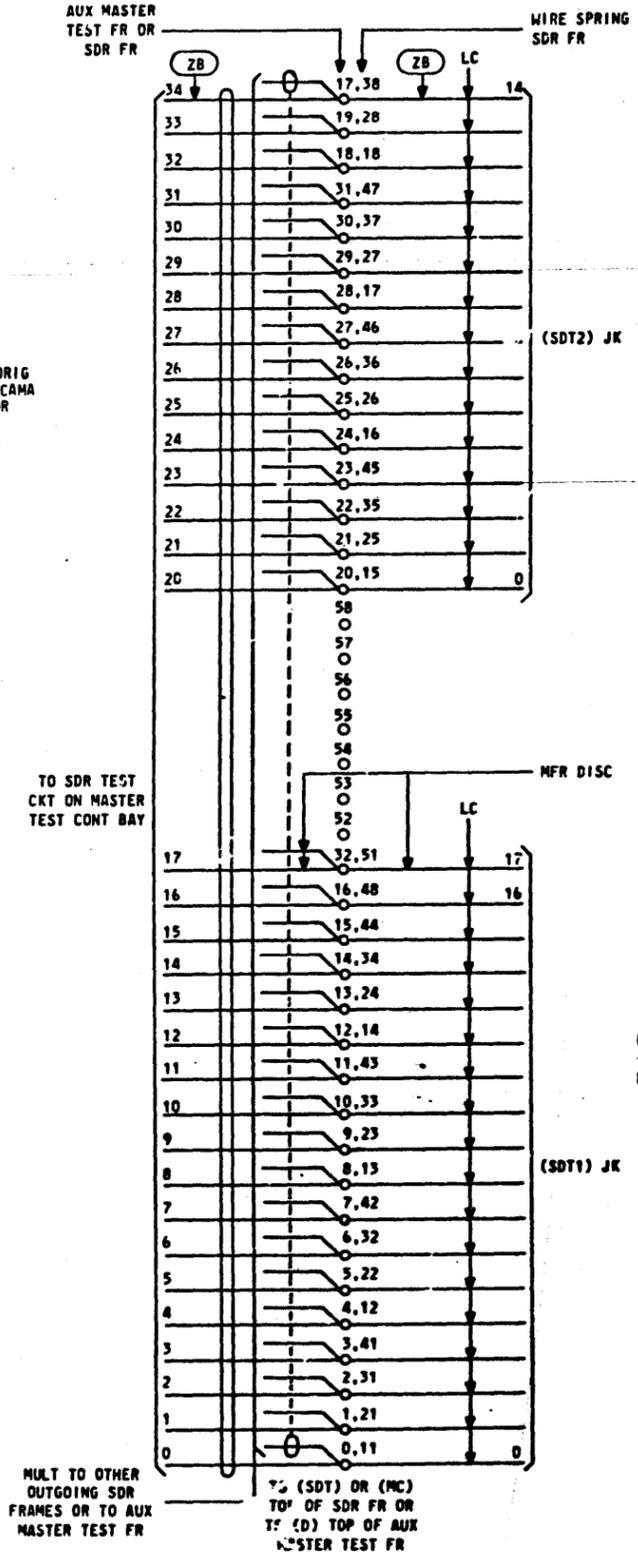


FIG. 149 (A&M ONLY) (FOR FIG. 13) FOR PBX ALLR

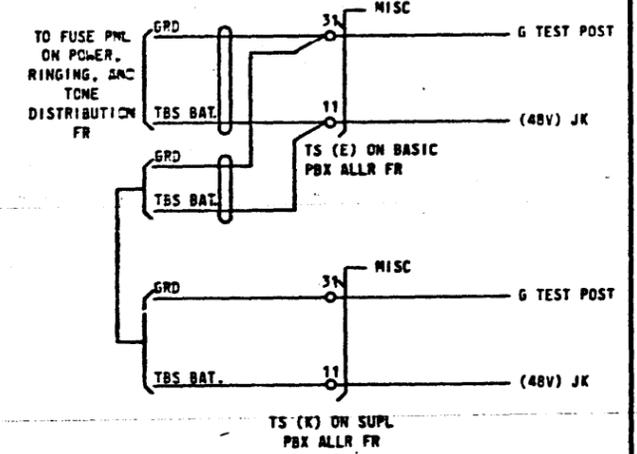


FIG. 144 (FOR FIG. 57) PERF CAB.

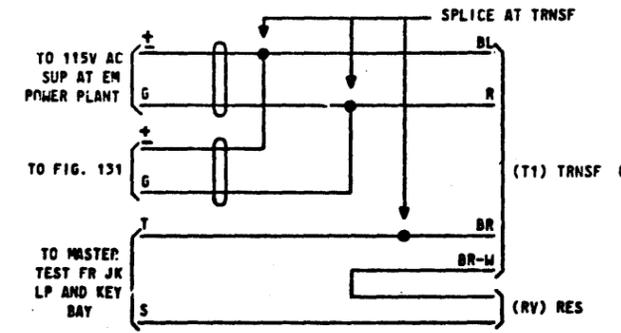
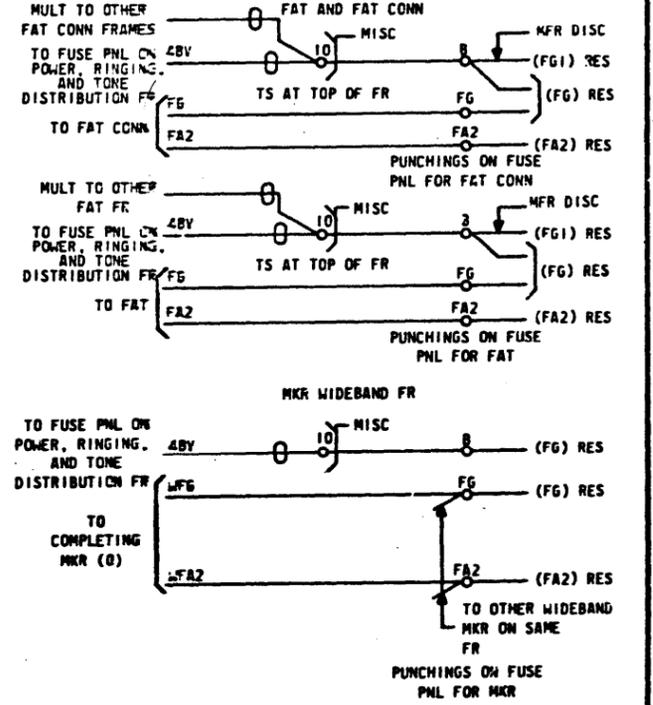


FIG. 145 (FOR FIG. 59) FAT AND FAT CONN



SD-25574-01-33

FIG. 165

SEE NOTES 203 AND 205
(FOR TRUNKS ASSOC WITH NO. 1 SWBD)
MFR DISC FOR TRUNKS ASSOC WITH NO.
3, 3C, OR 3CL SWBD SEE FIG. 173

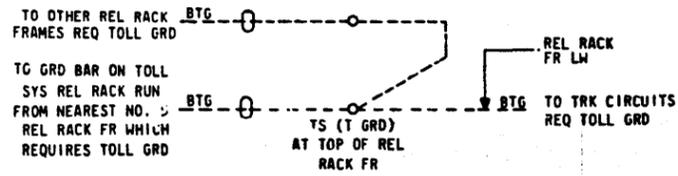


FIG. 167

FOR MASTER TEST FR
SEE NOTE 205

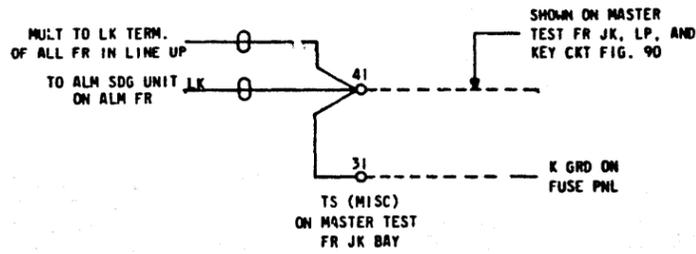


FIG. 171

(FOR FIG. 13)
AUTO. PROG TRK TEST FR



FIG. 172

(FOR FIG. 13)
CAMA AUTO. PROG TRK TEST FR



FIG. 166

(FOR FIG. 68)
SEE NOTE 213

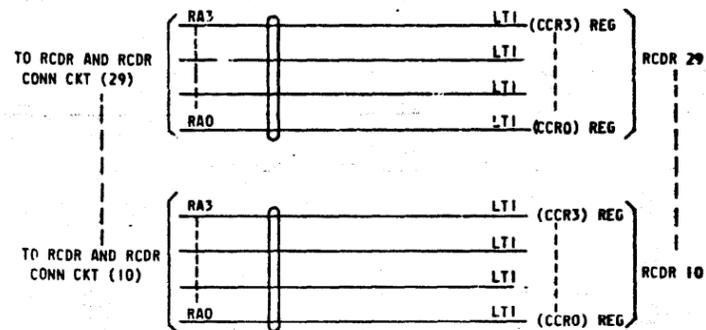


FIG. 168

(FOR FIG. 31)
CAMA TV FR AND AUTO.
NO. IDENT TV FR OR AMA-MTR TV FR

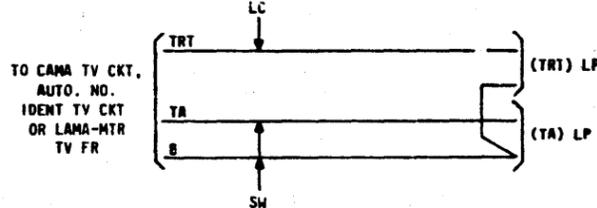


FIG. 169

(FOR FIG. 13)
BASIC COIN ZONE CONCENTRATOR FR

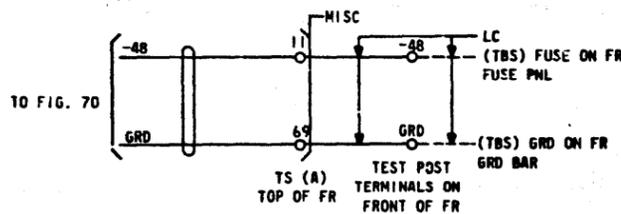


FIG. 173

SEE NOTES 203 AND 205
FOR TRUNKS ASSOC WITH SWBD
NO. 3, 3C, OR 3CL

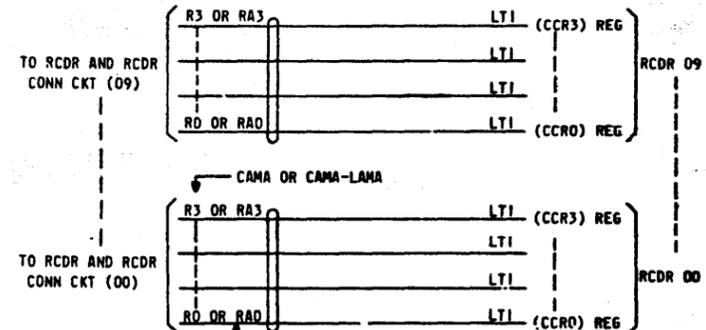
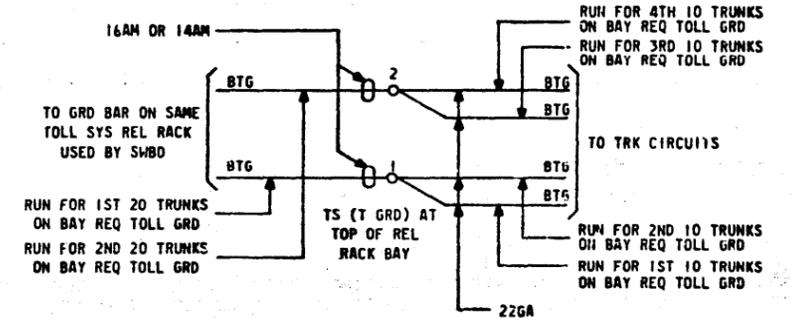
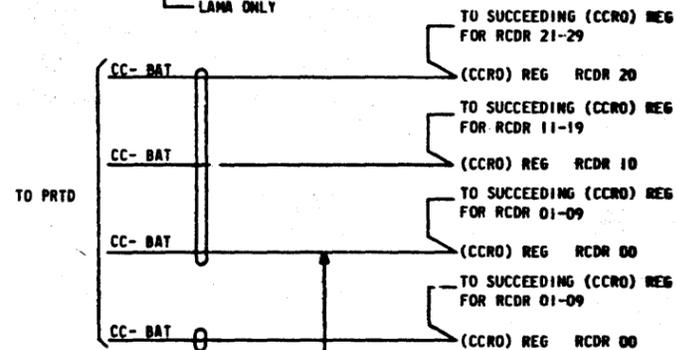
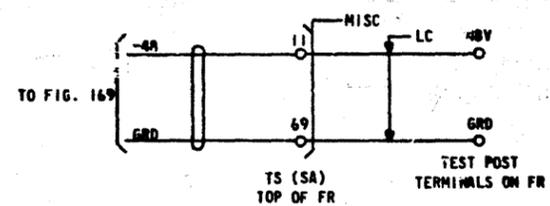


FIG. 170

SUPL COIN ZONE
CONCENTRATOR FR



REQD WHEN LAMA & CAMA
CALLS SERVED BY SAME
RCDR ARE RECORDED ON
PER RCDR BASIS ON
SEPARATE MESSAGE REG

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45D

MISCELLANEOUS CIRCUIT

2

SD-25574-01-36A

TELEPHONE LABORATORIES

65

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FIG. 174

(FOR FIG. 71)

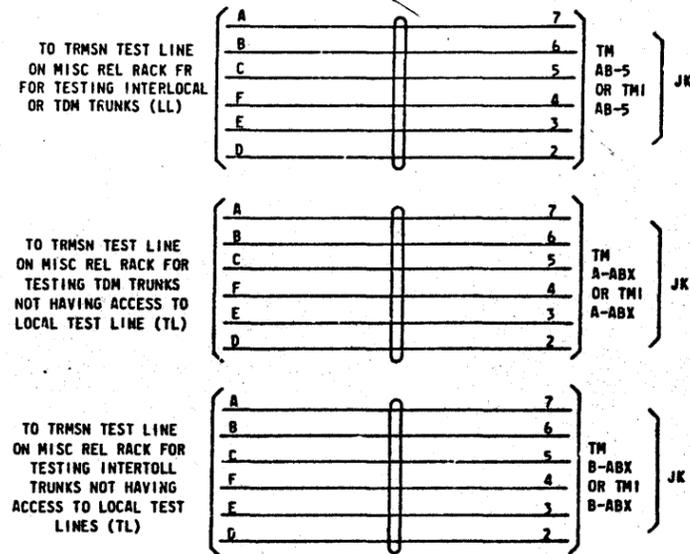
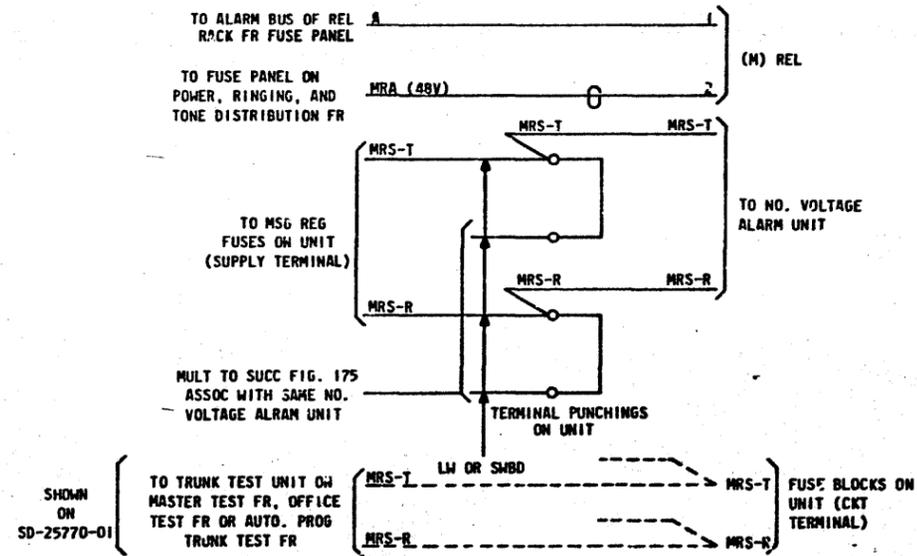


FIG. 175

(FOR FIG. 54)
FOR RELAY RACK MOUNTED
20 MSG REG UNIT



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FIG. 176 (MFR DISC)
(FOR FIG. 73)

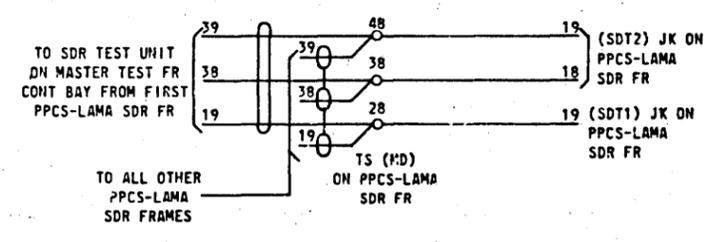
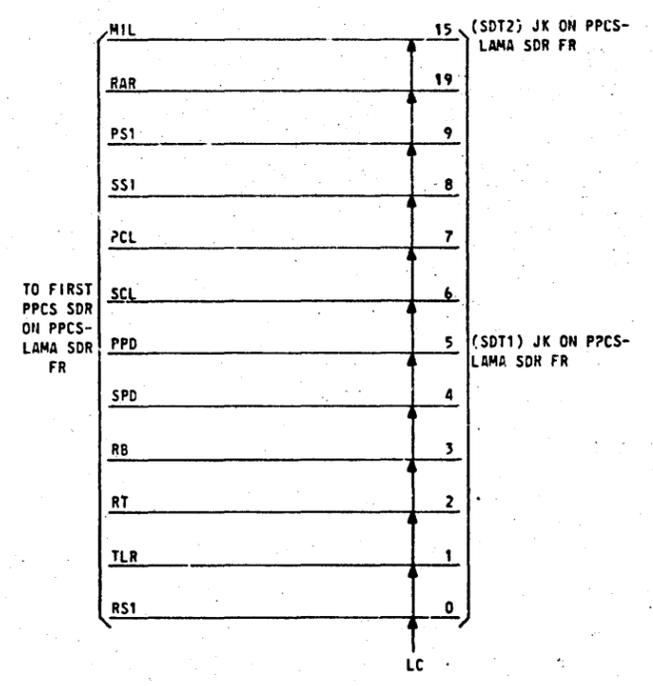
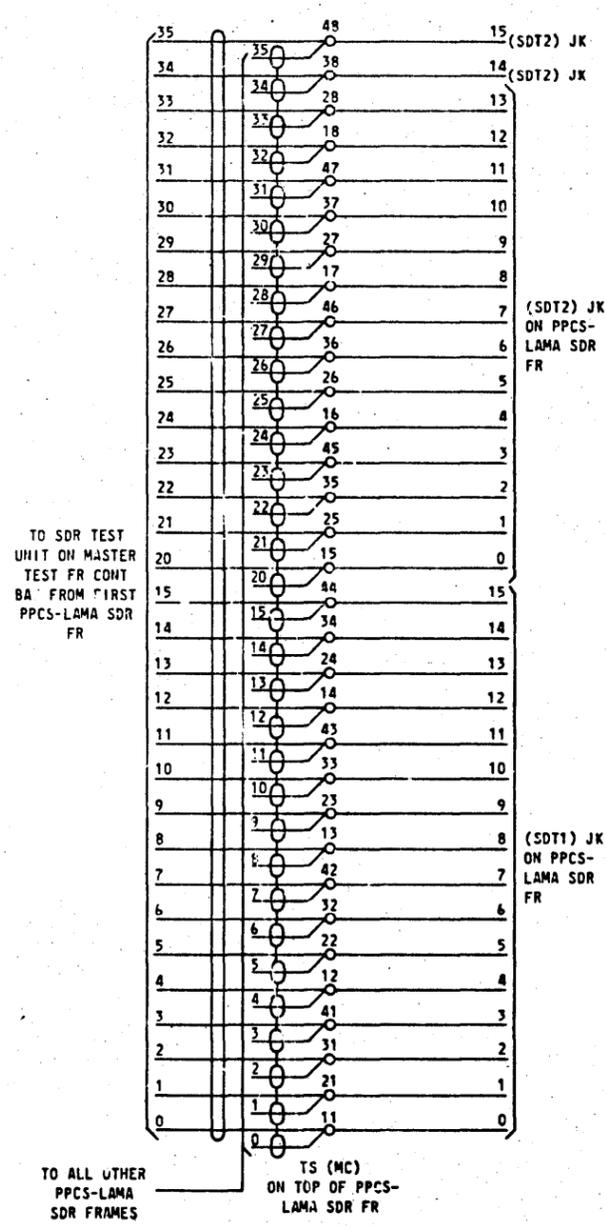


FIG. 177

SEE NOTES 203 AND 205
FOR TRUNKS REQ
TOLL TESTBOARD GRD

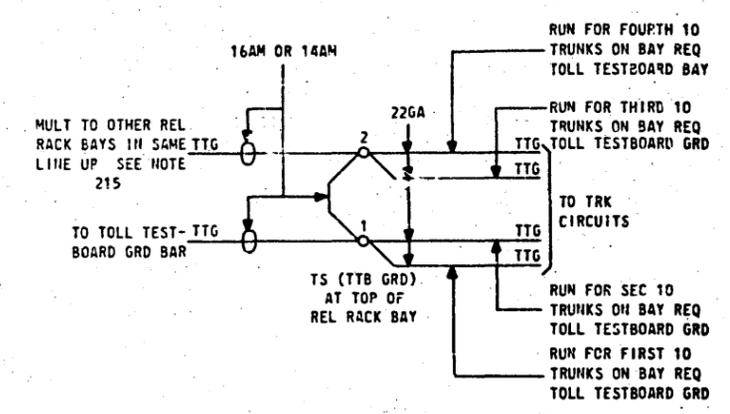


FIG. 178
(FOR FIG. 76)

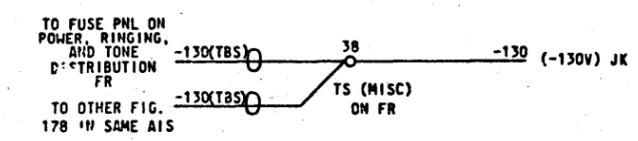
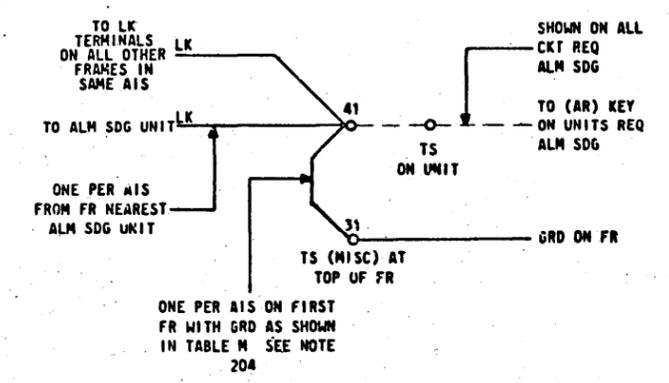


FIG. 179

ALM SDG MULT AND OPTION STRAP FOR ALL LK CKT MTG ON REL RACK
SEE NOTE 205



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FIG. 180
(FOR FIG. 77)

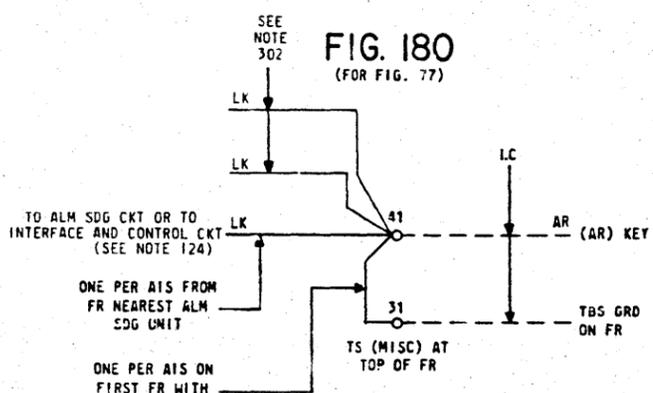


FIG. 181
(FOR FIG. 54)

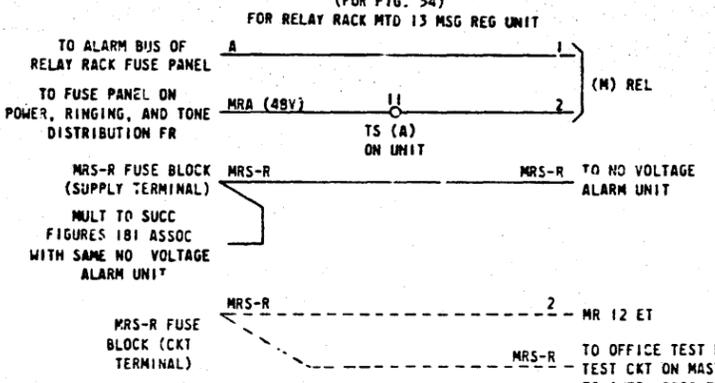


FIG. 182
(FOR FIGURES 23 AND 70)

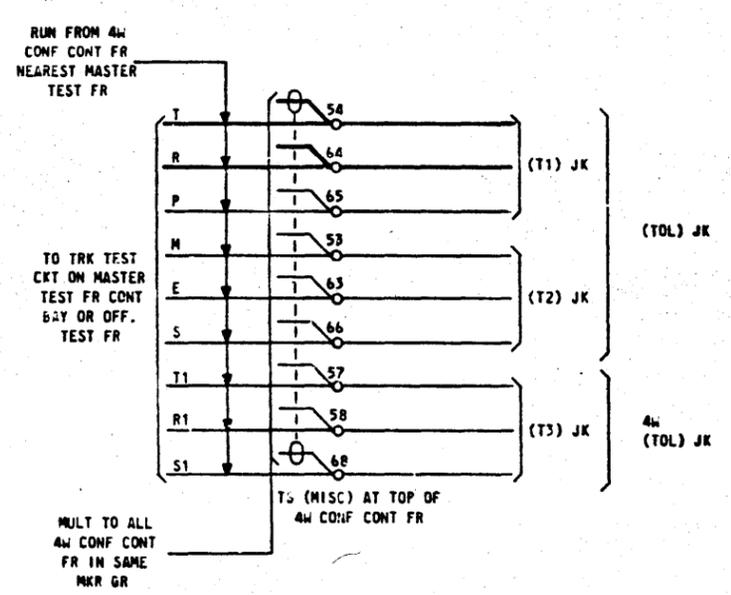


FIG. 183 (MFR DISC)
(FOR FIGURES 3, 24, 78, AND 79)

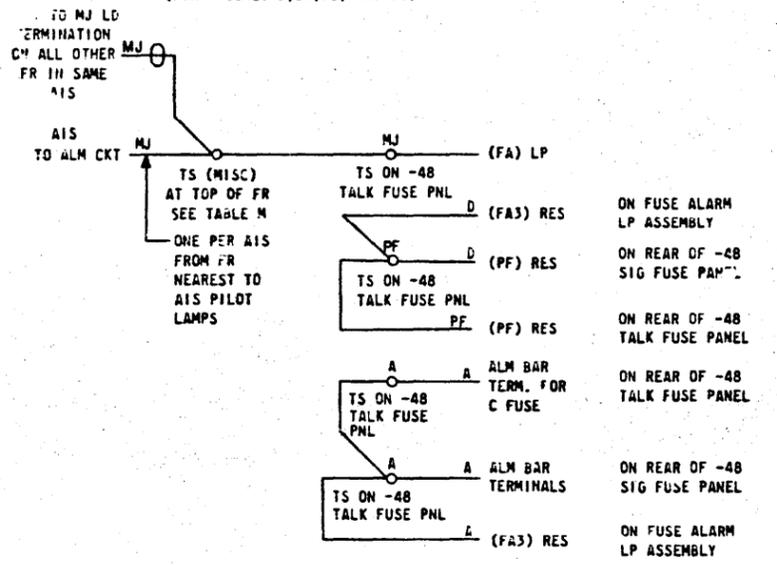


FIG. 184
(FOR FIG. 82)

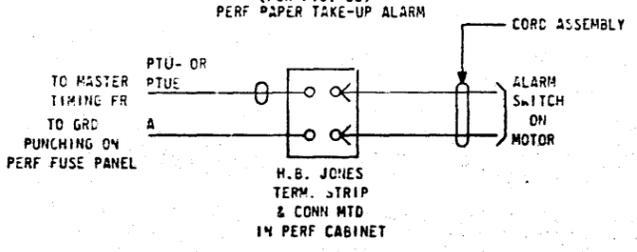


FIG. 185
(FOR FIG. 81)

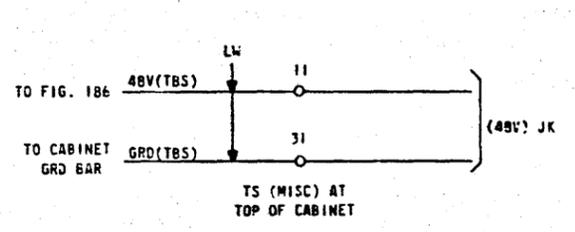


FIG. 186
(FOR FIG. 3)

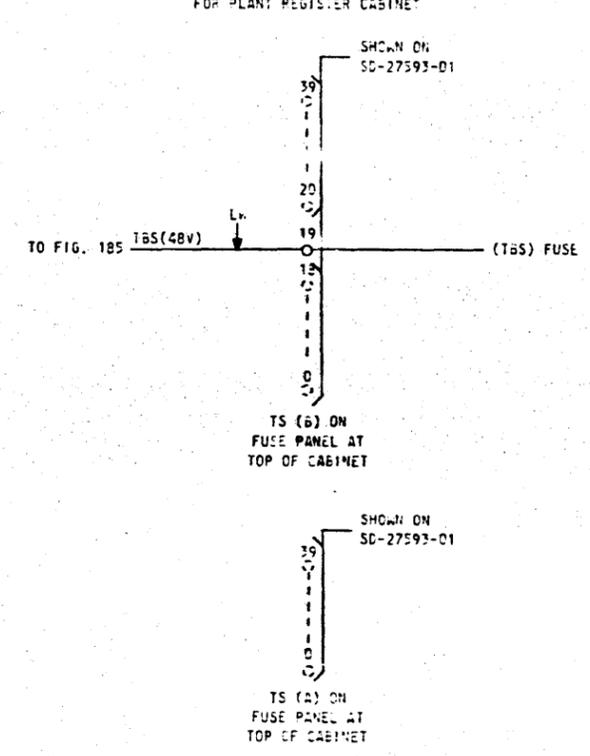


FIG. 187
(FOR FIGURES 3, 5, AND 25)

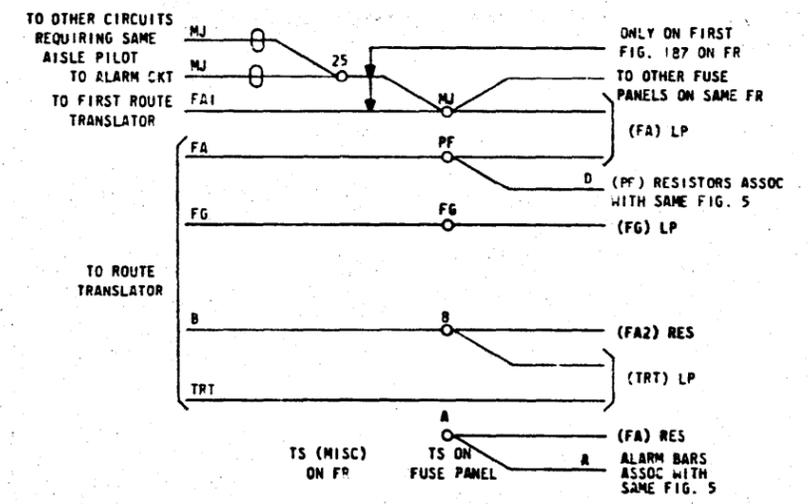


FIG. 188

(FOR FIG. 88)

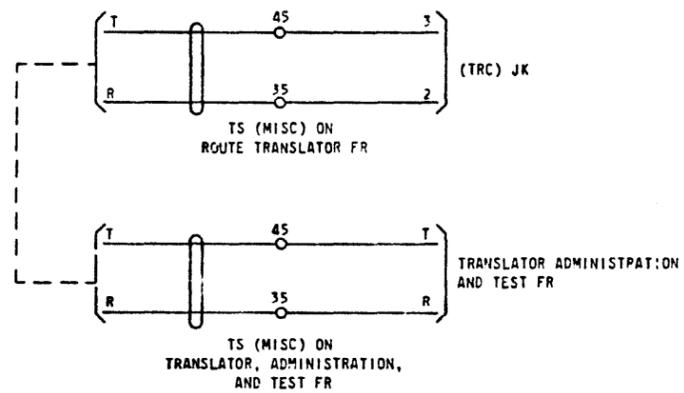


FIG. 191

(FOR FIG. 86)

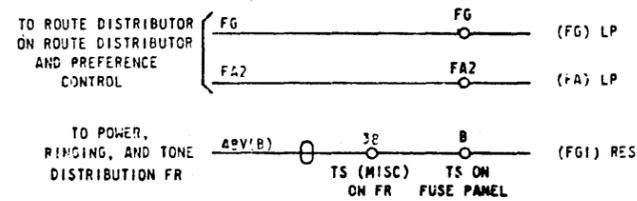


FIG. 194 (MFR DISC.)

(FOR FIG. 92)

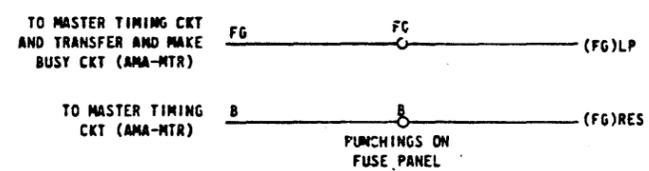


FIG. 189

(FOR FIGURES 3 AND 4)

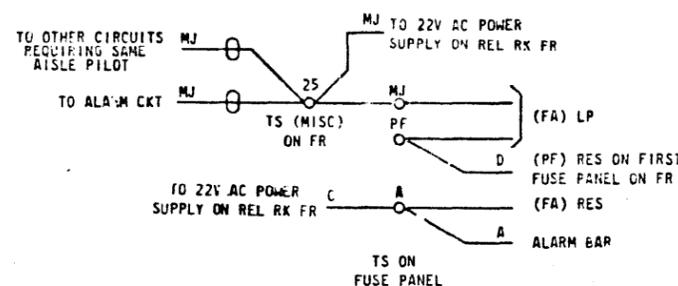


FIG. 192

(FOR FIG. 84)

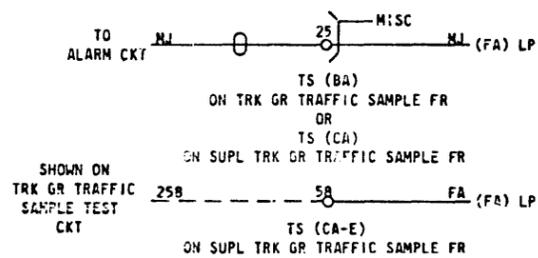


FIG. 195 (MFR DISC.)

(FOR FIG. 90)

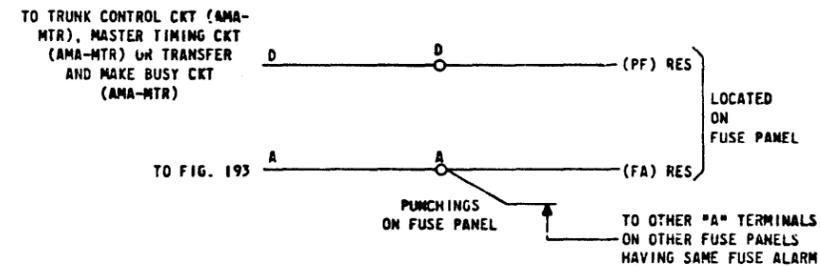


FIG. 190

(FOR FIGURES 3 AND 87)

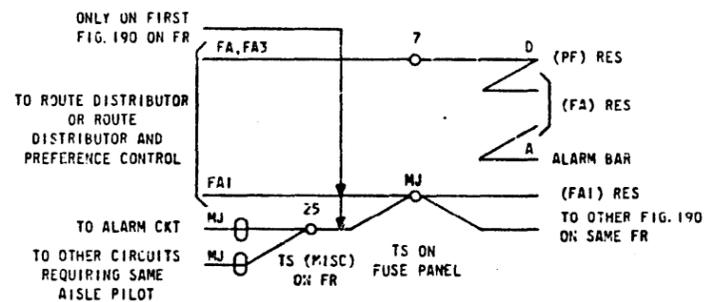
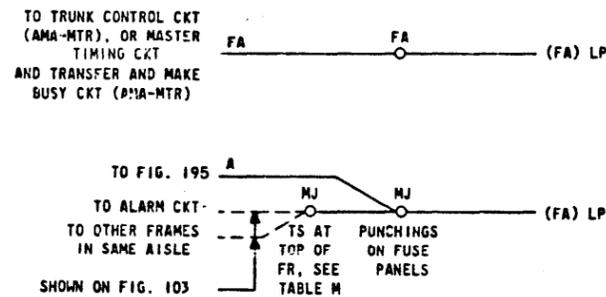


FIG. 193 (MFR DISC.)

(FOR FIG. 91)



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ISSUE 47AC

MISCELLANEOUS CIRCUIT (2) SD-25574-01-39
 BELL TELEPHONE LABORATORIES INCORPORATED 6S
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FIG. 196
(FOR FIG. 54 AND 75)
FOR MESSAGE REGISTER AND MESSAGE
TIMING FRAMES

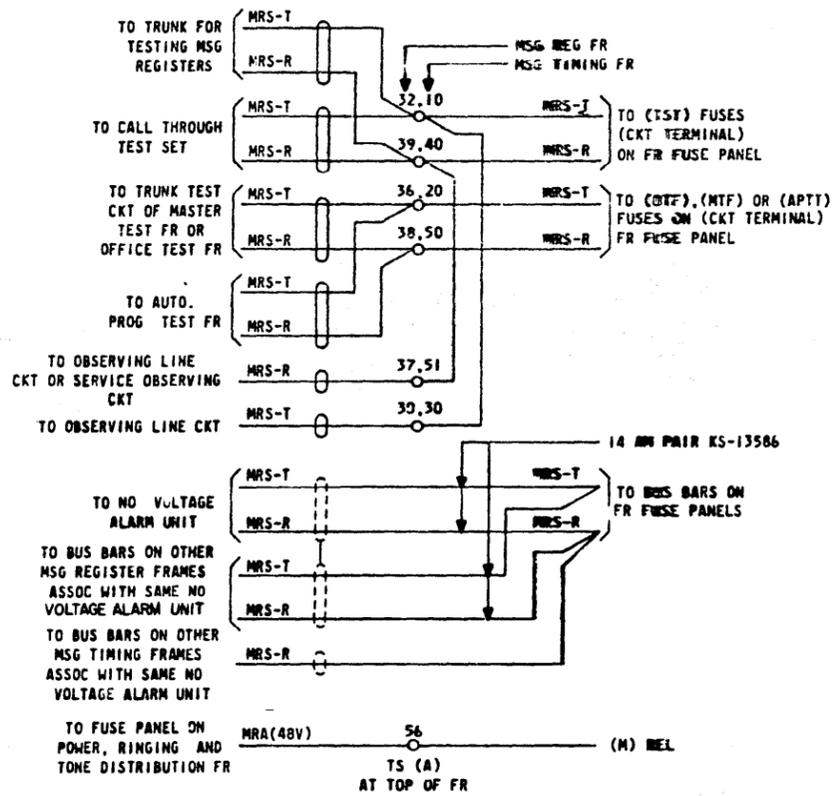


FIG. 197
(FOR FIG. 54)
RELAY RACK MOUNTED 100 MSG REG UNIT

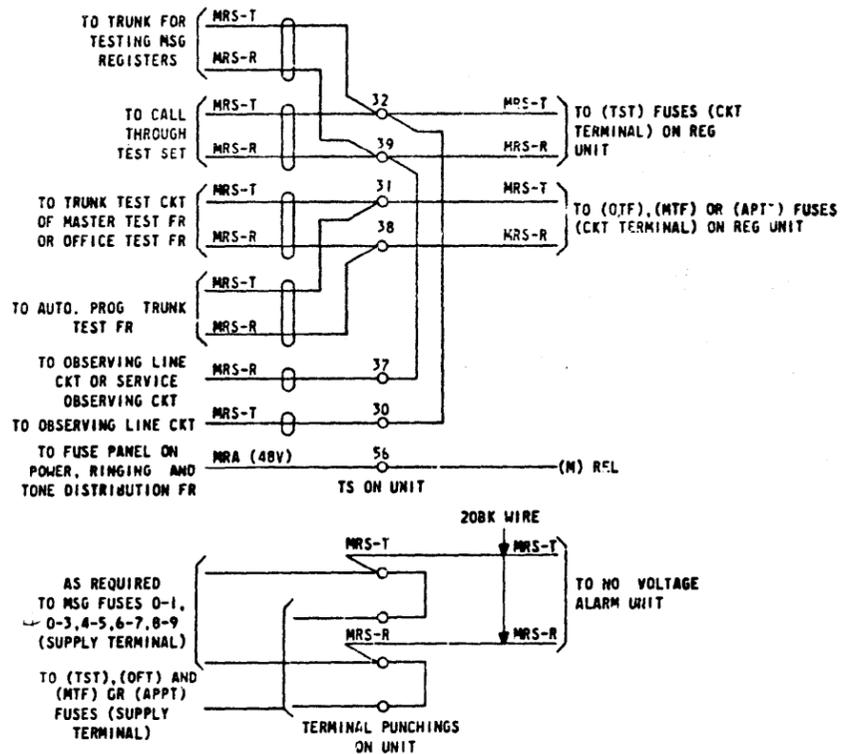


FIG. 198
(FOR FIG. 4)
POWER, RINGING, AND TONE DISTRIBUTION FR

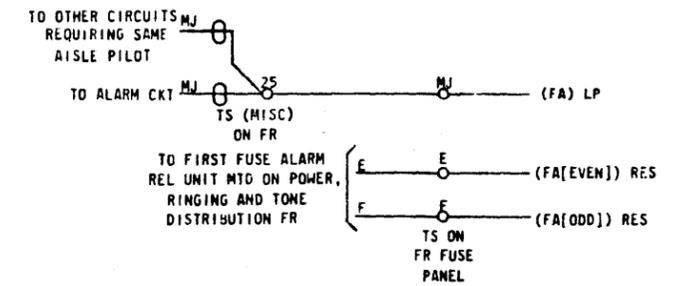


FIG. 199
(FOR FIG. 95)

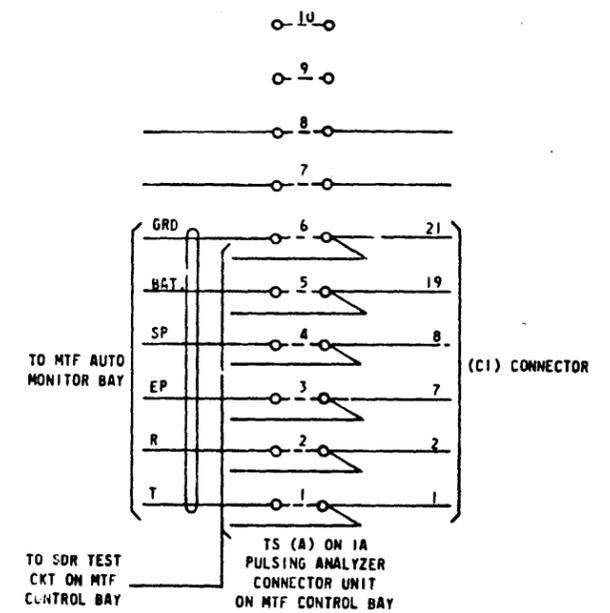


FIG. 200
(FOR FIG. 96)
FOR MKF AND TV FRAMES

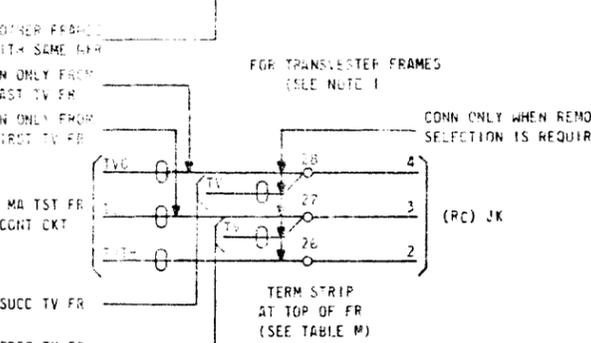
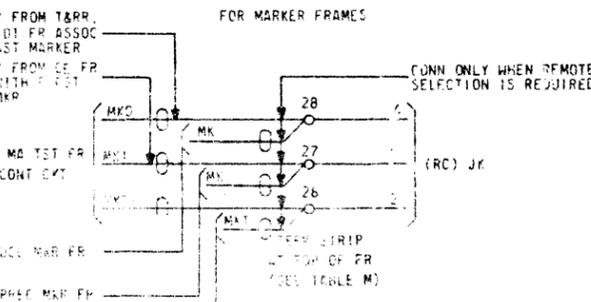
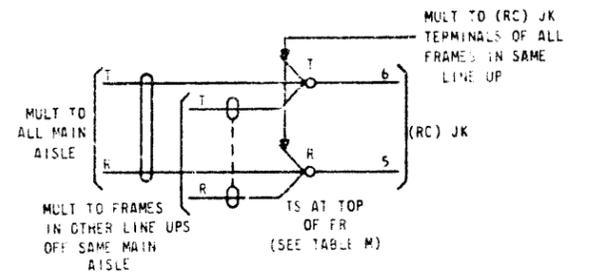


FIG. 201
(FOR FIGURES 3 AND 4)
ON ACC-GATING FR

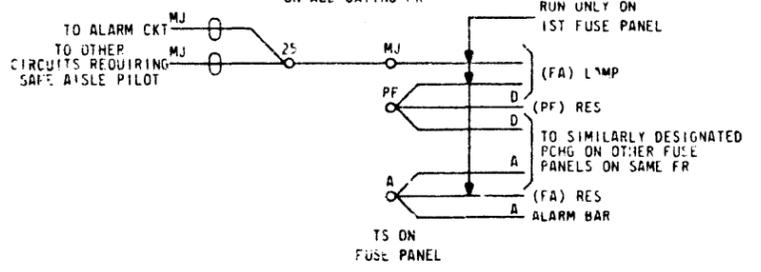
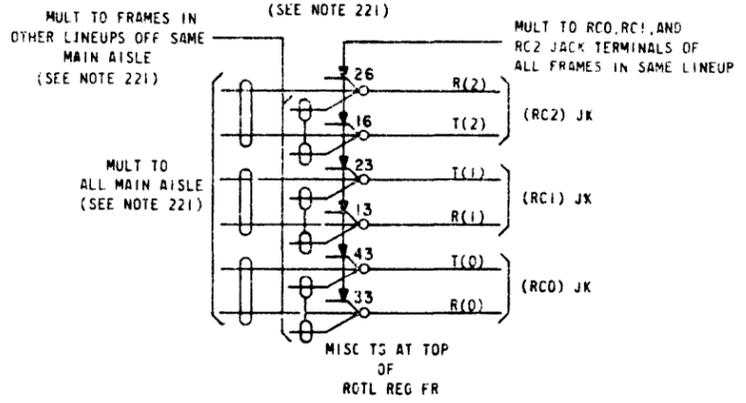


FIG. 202
(FOR FIG 19)
(SEE NOTE 221)



NOTES:
1. ON EARLY VINTAGE TRANSVERTER FRAMES WITH MISCELLANEOUS TERMINALS 1-16 USE DIRECT SWITCHBOARD CABLE FOR LEADS TV0, TV1 AND TV2- TO THE (RC) JK.

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ISSUE 43D

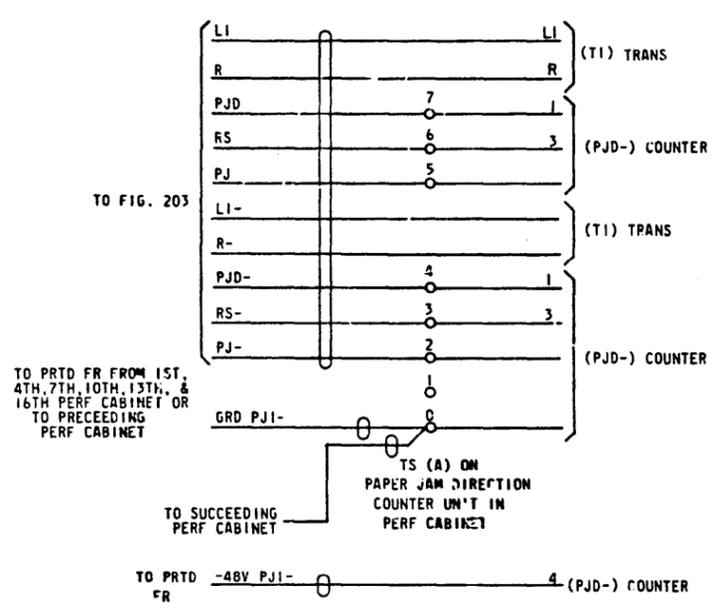
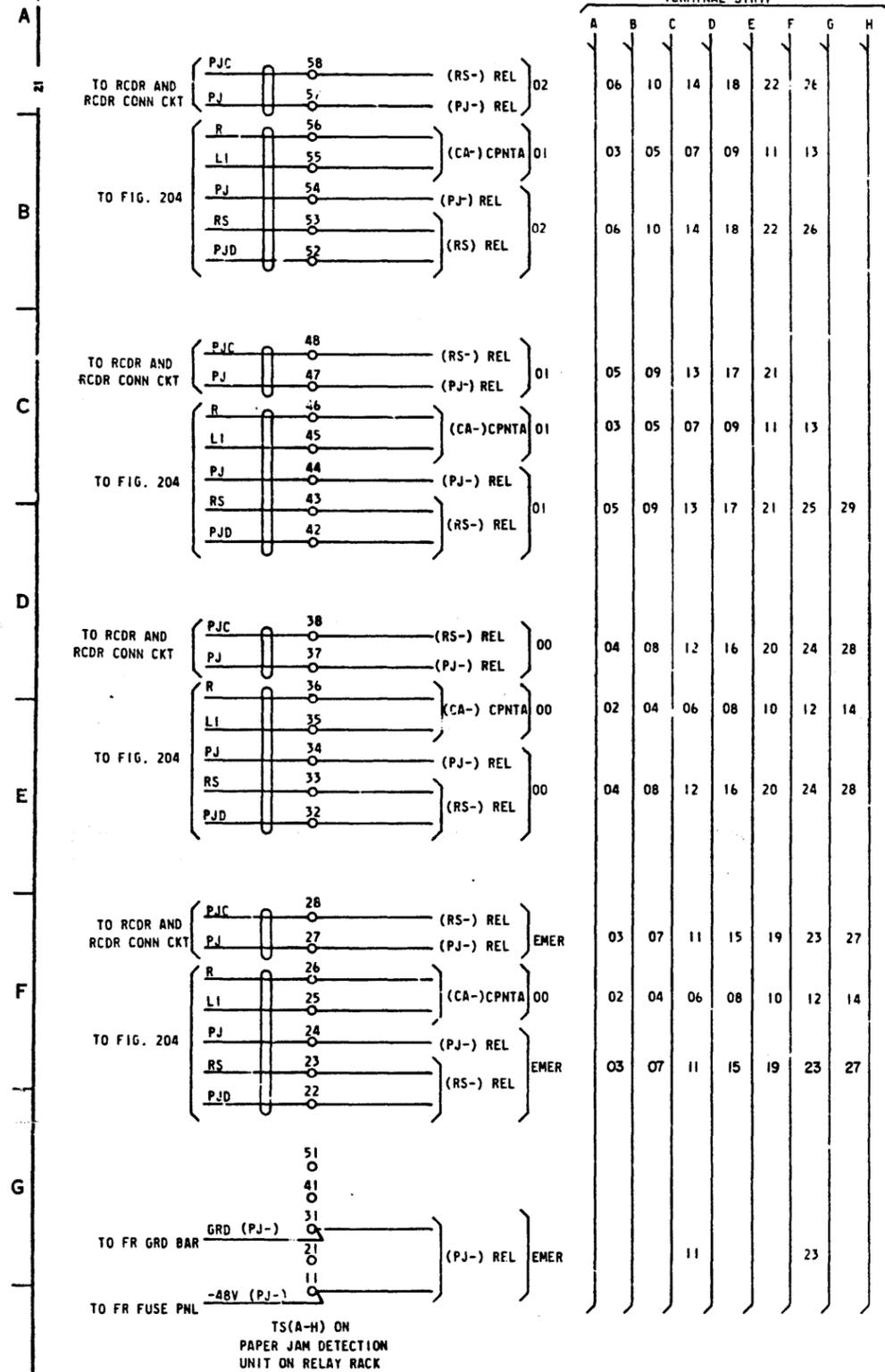
MISCELLANEOUS CIRCUIT	2	SD-25574-01-41
BELL TELEPHONE LABORATORIES INCORPORATED	65	

FIG 203

FOR FIG. 99 & 100

FIG. 204

FOR FIG. 46,98



SD-25574-01-42

MISCELLANEOUS CIRCUIT	②	SD-25574-01-42
BELL TELEPHONE LABORATORIES	65	

54A

FIG. 206

(FOR FIGURES 3, 24, 78, AND 79)
FOR RANGE EXTENDER FRAME,
(REPLACES FIG. 183)

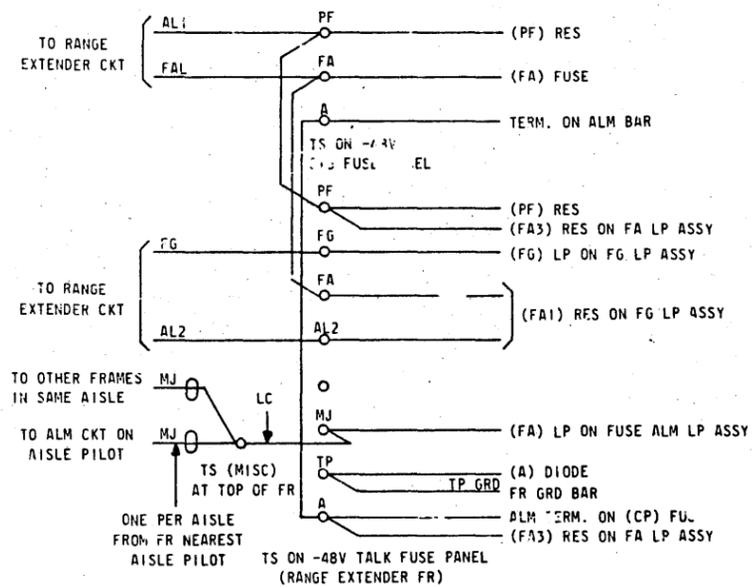


FIG. 209

(FOR FIG. 13)
ANI & CAMA TV
TS () AT
TOP OF FR

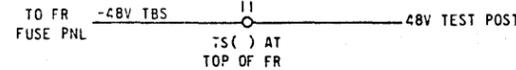


FIG. 210

(FOR FIG. 406, 407)

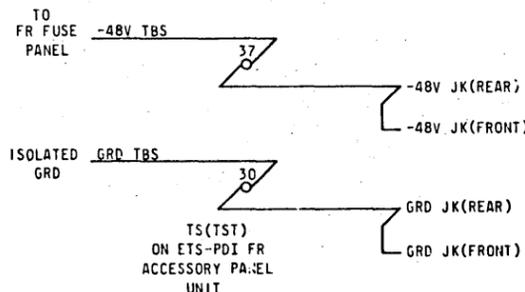


FIG. 212

(FOR FIG. 16, 17)

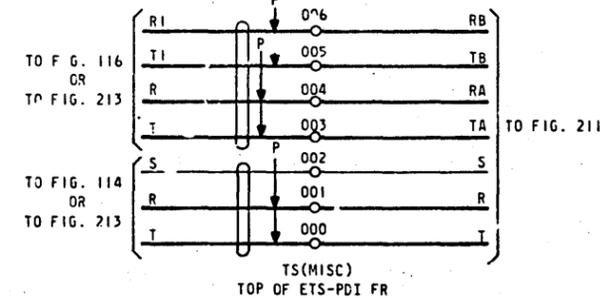


FIG. 213

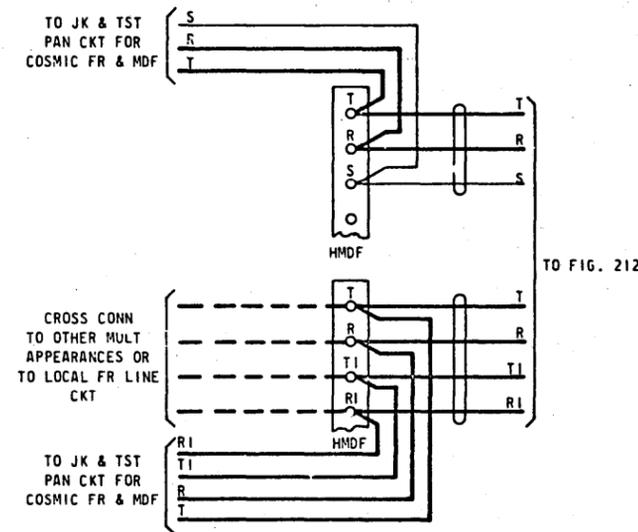


FIG. 207

REQUIRED FOR LOOP TYPE
ALARMS

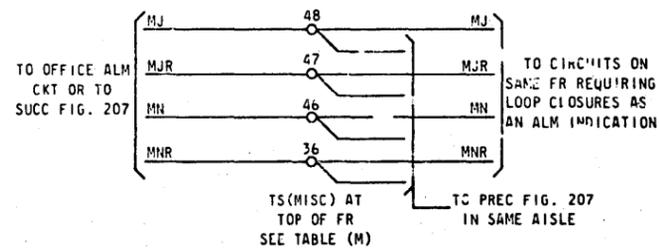


FIG. 211

(FOR FIG. 16, 17)

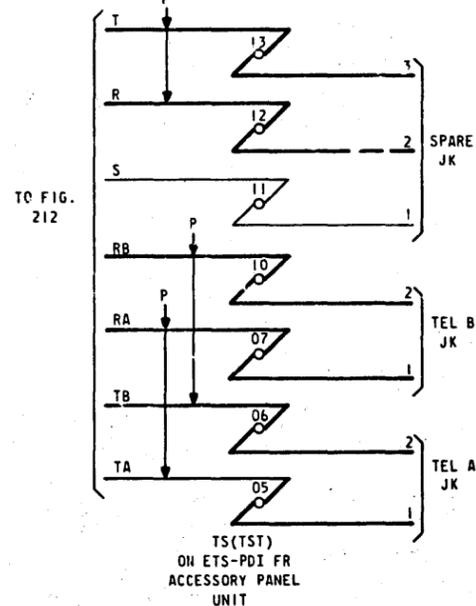
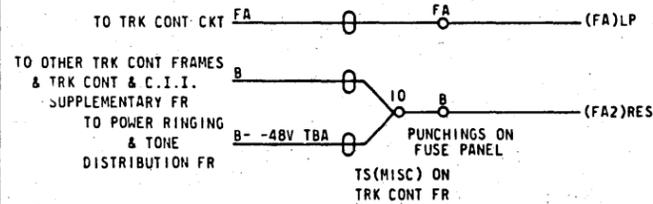


FIG. 208

(FOR FIG. 405)



SD-25574-01-43

54A

MISCELLANEOUS CIRCUIT

2

SD-25574-01-43

BELL TELEPHONE LABORATORIES
INCORPORATED

6S

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