

CATEGORY	NO.
EQUIPMENT INFO	J98615A
	J98615B
	J98615AJ
	J98615AH
	J98615C
	J98615D
	J98615AA
	J98615AB
	J98615AC
	J98615AD
	J98615AE
	J98615AG
	J98615AK
	J98615AL
	J98615E
	J98615F
	J98615G
	J98615H
	J98615AM
	J98615BJ
	J98615-BK
	J98615-AS
	J98615-L
	J98615CA
	J98615CB
	J98615CC
	J98615CD
	J98615CE
	J98615CF
	J98615CG
	J98615CH
	J98615BL

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.

16

SHEET INDEX (CONT)

[illegible]

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E-288E (10-81)

V4 TELEPHONE REPEATER
BATTERY SUPPLY AND
CONNECTING CIRCUITS

(2)

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BELL TELEPHONE LABORATORIES
INCORPORATED

65

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DRAW IS ISSUE		
7D	ACC - JGF	MH
8D	ACC - JGF	MH
11D	ZEN - JGF	
12D	ZEN - JGF	
13A	ZEN - JGF	NO
14D		NO
15D		NO
16D		NO

16

SHEET INDEX (CONT)

[illegible]

V4 TELEPHONE REPEATER
BATTERY SUPPLY AND
CONNECTING CIRCUITS

BELL TELEPHONE LABORATORIES

SD-97047-01-3

2
DWO RITE
65

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101. CIR. WIRING NOTES:

FEATURE OR OPTION	FIG.	PROVIDE	QUANTITY
620 OHM AMPLIFIER INPUT NO EQUALIZER	1	X	1
1200 OHM AMPLIFIER INPUT NO EQUALIZER	1	Y	1
SIMPLEX BY-PASS AROUND AMPL	1	W	1
600 OHM AMPLIFIER OUTPUT	1	S	1
1200 OHM AMPLIFIER OUTPUT	1	V	1
24VDC PWR FAILURE LOOP AROUND	29	E	1
24VDC PWR FAILURE LOOP AROUND WITH EXTERNAL EQUIP.	29	F	1
LOCAL GND (ALM) REL.	4	R	1
EXTERNAL GND ON (ALM) REL.	4	T	1
AS COVERED IN TABLE B	4	M,N	1
-24V D.C. SUPPLY	25	J	1
-48V D.C. SUPPLY	25	K	1
2-W TO 4-W REPEATER	25	G	1
TO EXTERNAL EQUIPMENT	25	H	1
-48V D.C. SUPPLY	26	-	1
-48V D.C. SUPPLY FOR TERENO.	27	-	1

102. OFFICE WIRED OPTIONS. NO RECORD REQUIRED.

103. CURRENT DRAIN INFORMATION IS AS FOLLOWS:

VOLTAGE EACH FIG.	STEADY CURRENT DRAIN-AMPS	INTERMITTENT CURRENT DRAIN AMPS
24 FIG. 1	0.018	
24 FIG. 6		0.051
48 FIG. 1	0.018	
48 FIG. 7		0.042
48 FIG. 26	0.036	
48 FIG. 28	0.012	
48 FIG. 29	0.082	

104. ALARM CIRCUIT LEADS 1,2,3,4 AS SHOWN IN TABLE "B"

105. RECORD OF FIGURES, WIRING AND APPARATUS CHANGES

CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT
STC	MD			
12D	C,D	D		C D

106. WHEN POWERING THE 24V₂ REPEATER, USE -48V BATTERY ONLY

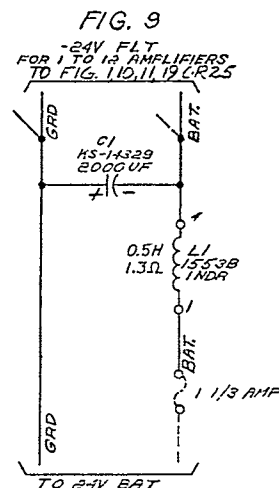


FIG. 5 (MFR DISC)
BUILDING OUT RESISTOR
FOR MEASURING 1200 OHM CKTS WITH 600Ω TMS

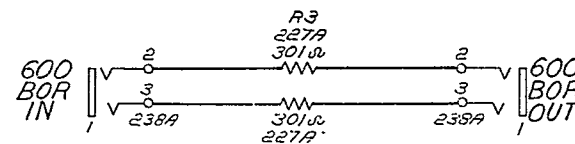


FIG. 18 (MFR DISC)
BUILDING OUT RESISTOR
FOR MEASURING 900 OHM CKTS WITH 600Ω TMS

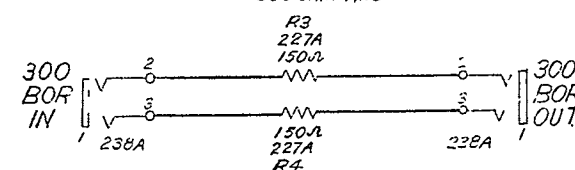


FIG. 3 (MFR DISC)
48V PWR DISTRIBUTION CKT
FOR FROM 12 TO 240 AMPLIFIERS TO FIG. 1

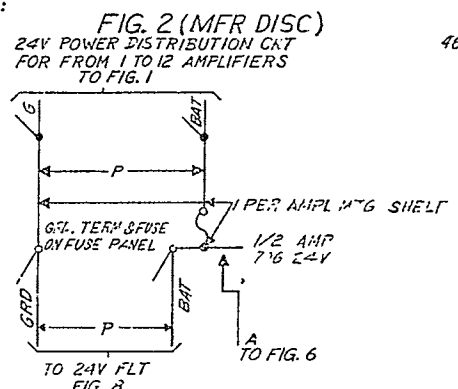
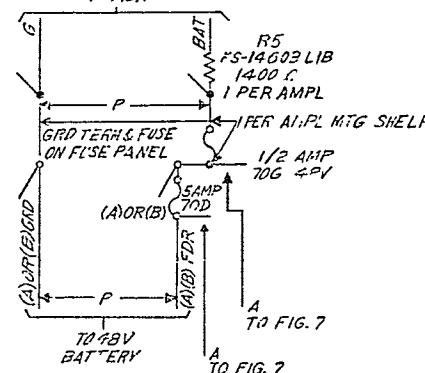


FIG. 8 (MFR DISC)
-24V DECENTRALIZED FLT
FOR 12 TO 240 AMPLIFIERS
MAX. CAPACITY 4 1/2 AMP
TO FIG. 2

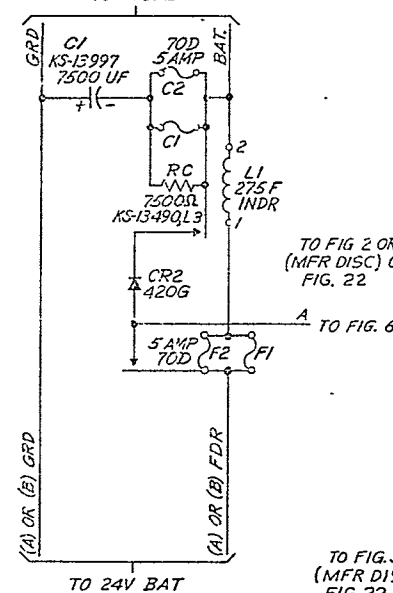


FIG. 6
-24V ALM
ALM/MN ALM

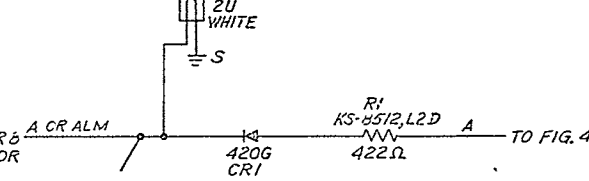


FIG. 7
-48V ALM
ALM/MN ALM

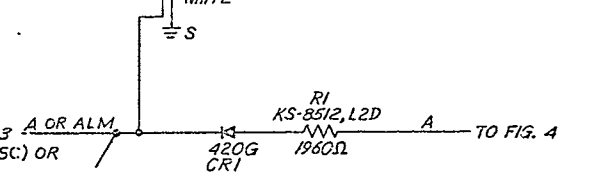


FIG. 1
221 TYPE AMPLIFIER
AMPL 1 OR AMPL 2 AND ASSOCIATED JACKS
SEE NOTE 201, TABLE A
AND FIG. 101

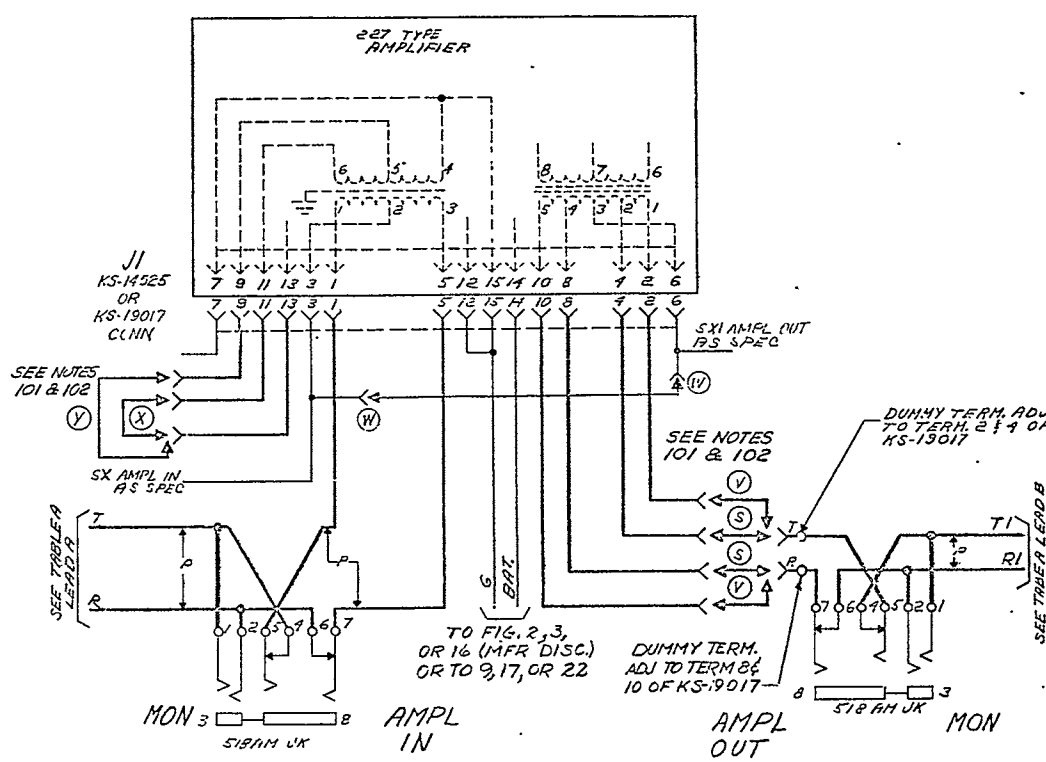
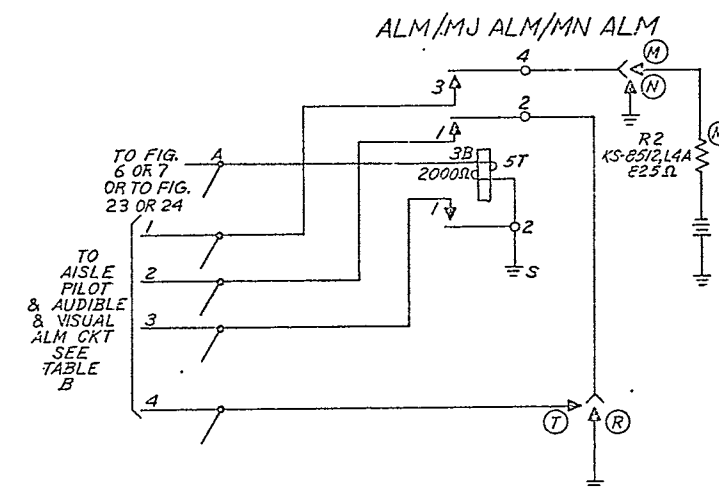


FIG. 4
FUSE ALARM
SEE NOTE 101



V4 TELEPHONE REPEATER
BATTERY SUPPLY AND
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FIG. 14 (MFR DISC)
-24 VOLT DECENTRALIZED
FILTER FOR MAXIMUM OF
264 AMPLIFIERS
(MAX. CAPACITY 4 3/4 AMP)

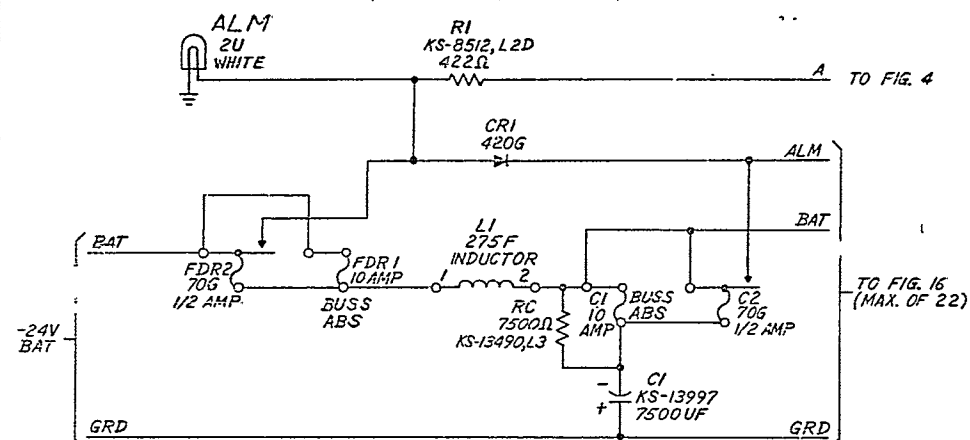


FIG. 16 (MFR DIS)
CIRCUIT FUSE
FOR MAXIMUM
OF 12 AMPLIFIERS

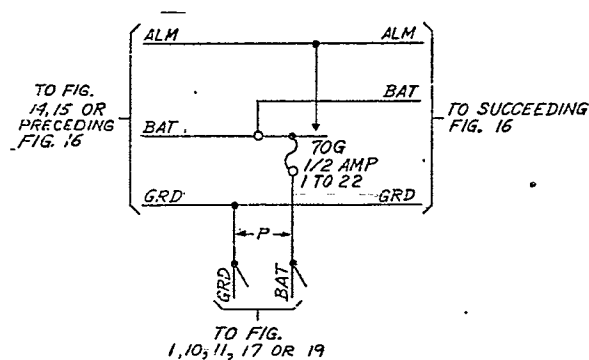


FIG. 17
DROPPING RESISTOR
FOR ONE
AMPLIFIER
FOR 48 VOLT
OPERATION

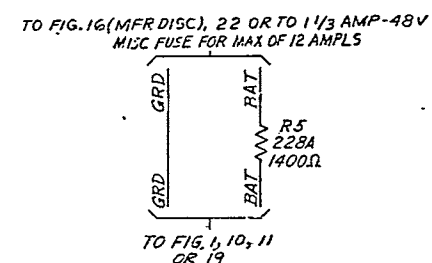


FIG. 22
CIRCUIT FUSE
FOR MAXIMUM OF
12 AMPLIFIERS

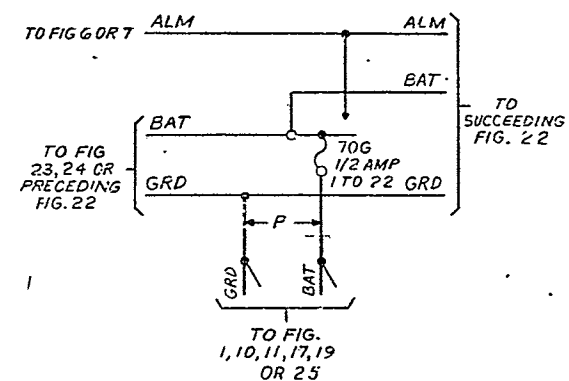


FIG. 15 (MFR DISC)
-48 VOLT POWER DISTRIBUTION
CIRCUIT FOR MAXIMUM OF
264 AMPLIFIERS

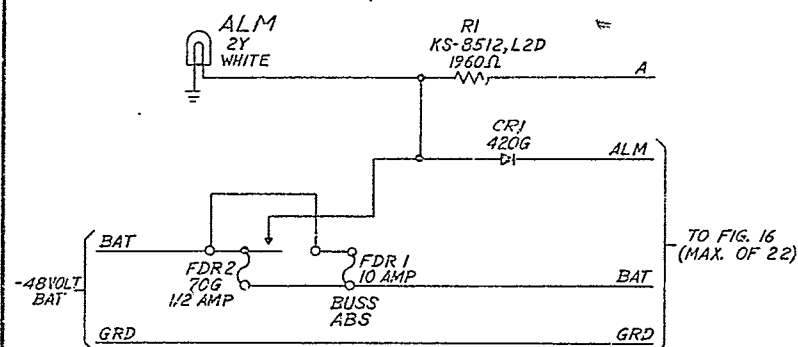


FIG. 21
AMPL SOCKET ARRANGED FOR USING 849 TYPE NETWORKS
BETWEEN 4 WIRE LOADED OR NON-LOADED FACILITIES AND
600 OHM EQPT. SEE FIG. 150

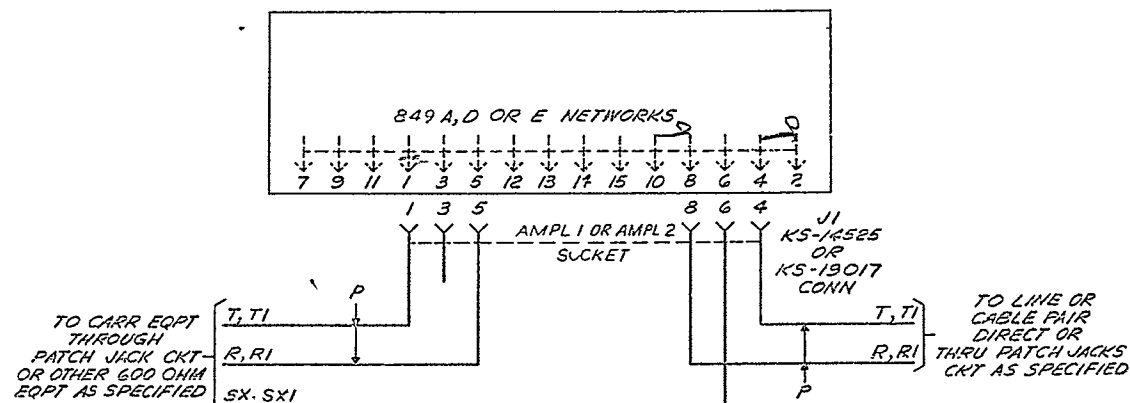


FIG. 23
-24VOLT DECENTRALIZED
FILTER FOR MAXIMUM OF
264 AMPLIFIERS

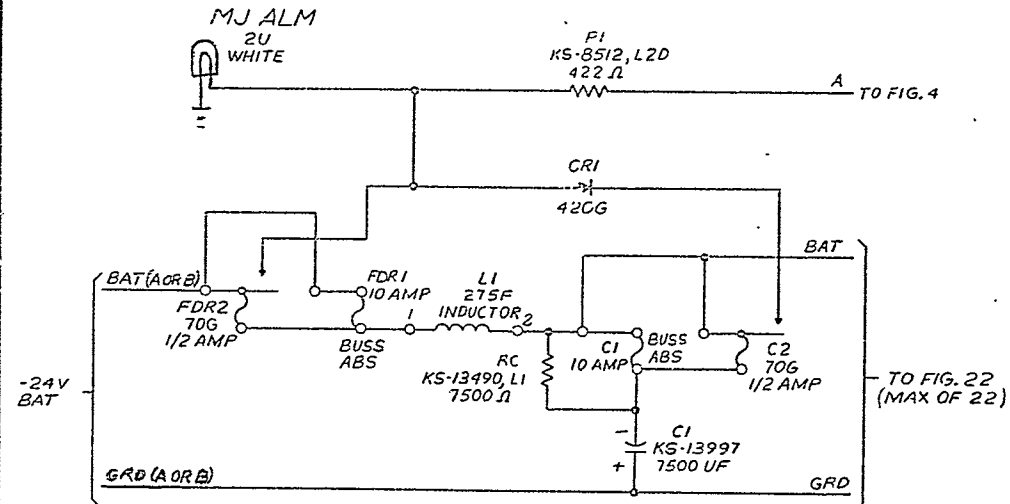
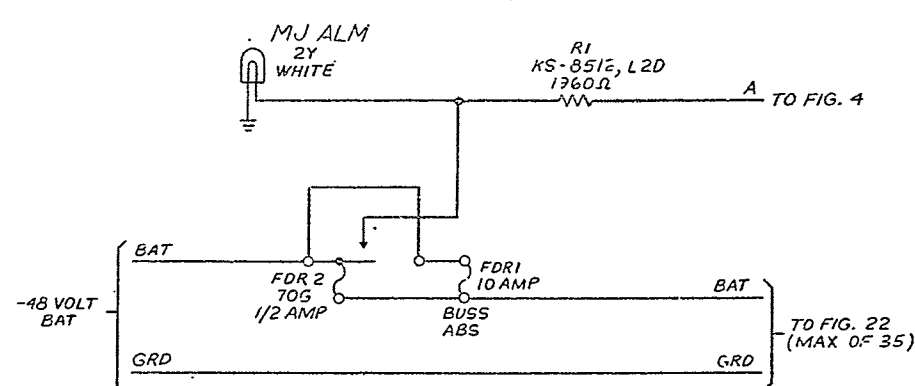


FIG. 24
-48 VOLT POWER DISTRIBUTION
CIRCUIT FOR MAXIMUM OF
420 AMPLIFIERS



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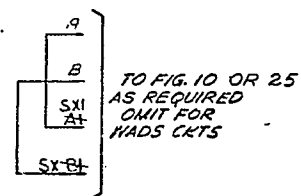
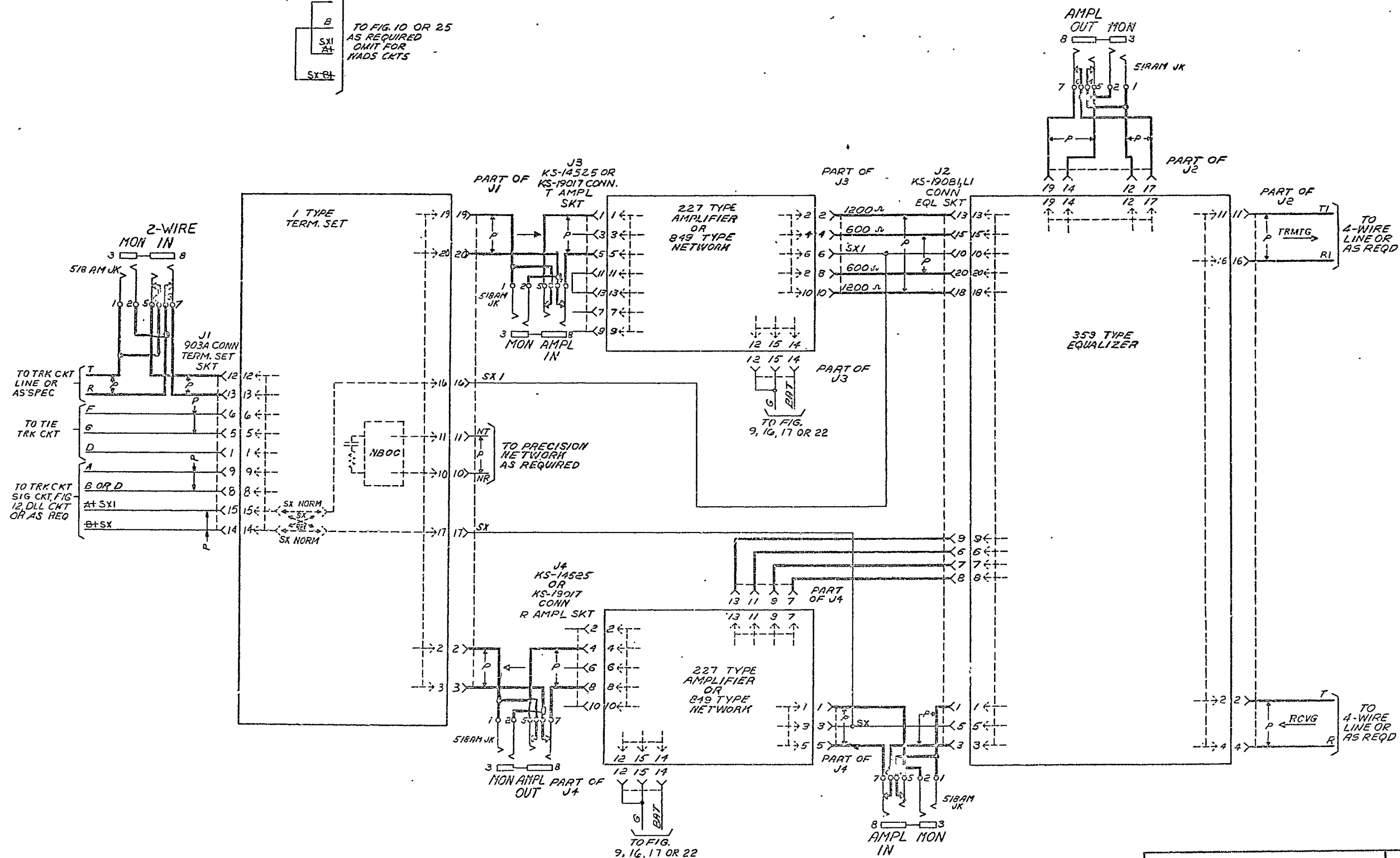
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EAGLE E2

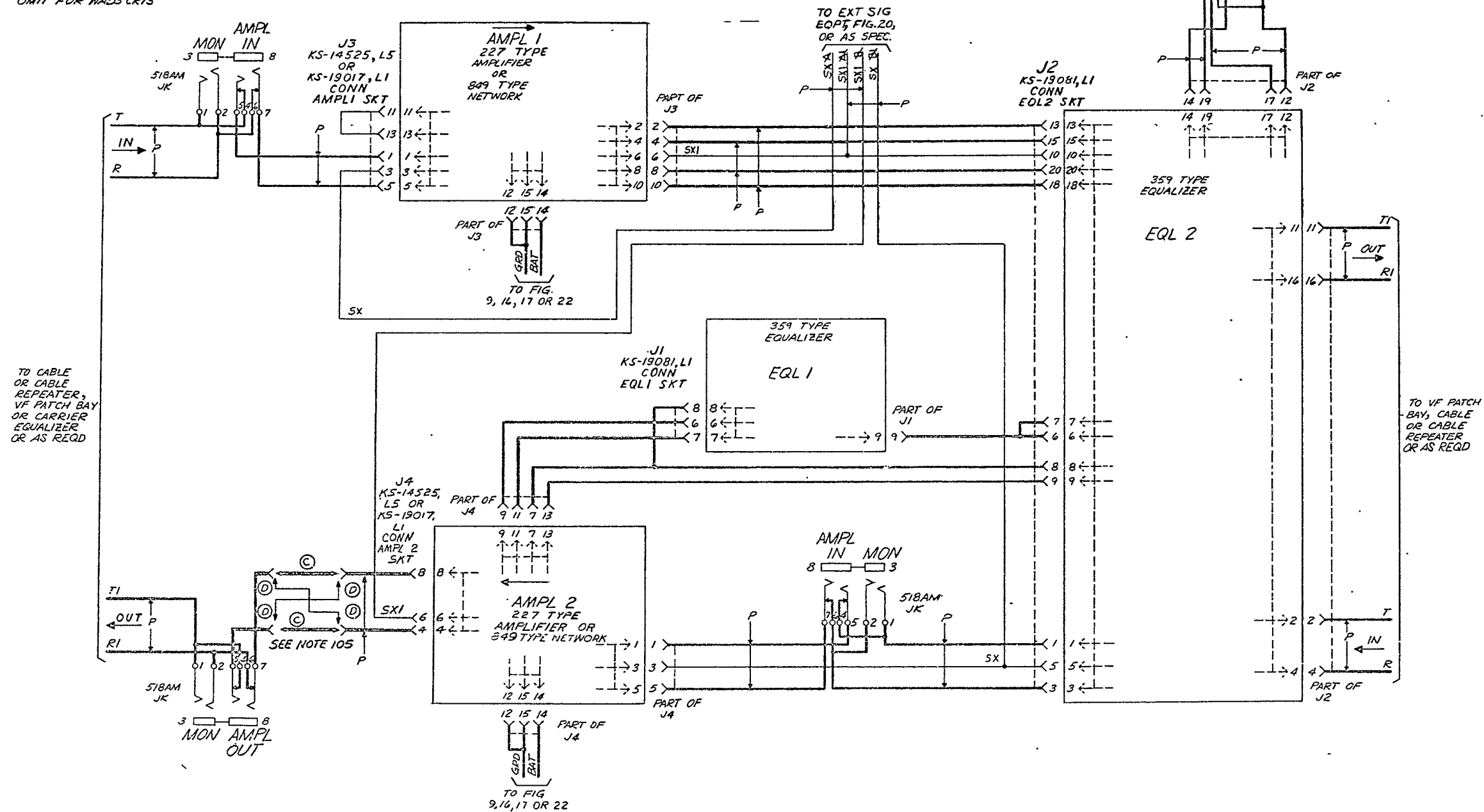
FIG. 12

FIG. 10
24V4A REPEATER

DRAWING	ISSUE
3D	REP
4D	FAC
5A	RE-
6D	FAC
7D	REP
8D	FAC
9D	REP
11D	FAC
14D	REP

FIG. 19
44V4B REPEATER FOR SPECIAL SERVICE
OR DATA TRUNKS

FIG. 20
TO FIG. 19
AS REQUIRED
OMIT FOR HADS CKTS



DRAWING	ISSUE
6D	ART
7D	RSH
11D	14H
12D	
14D	

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EAGLE E2

HE

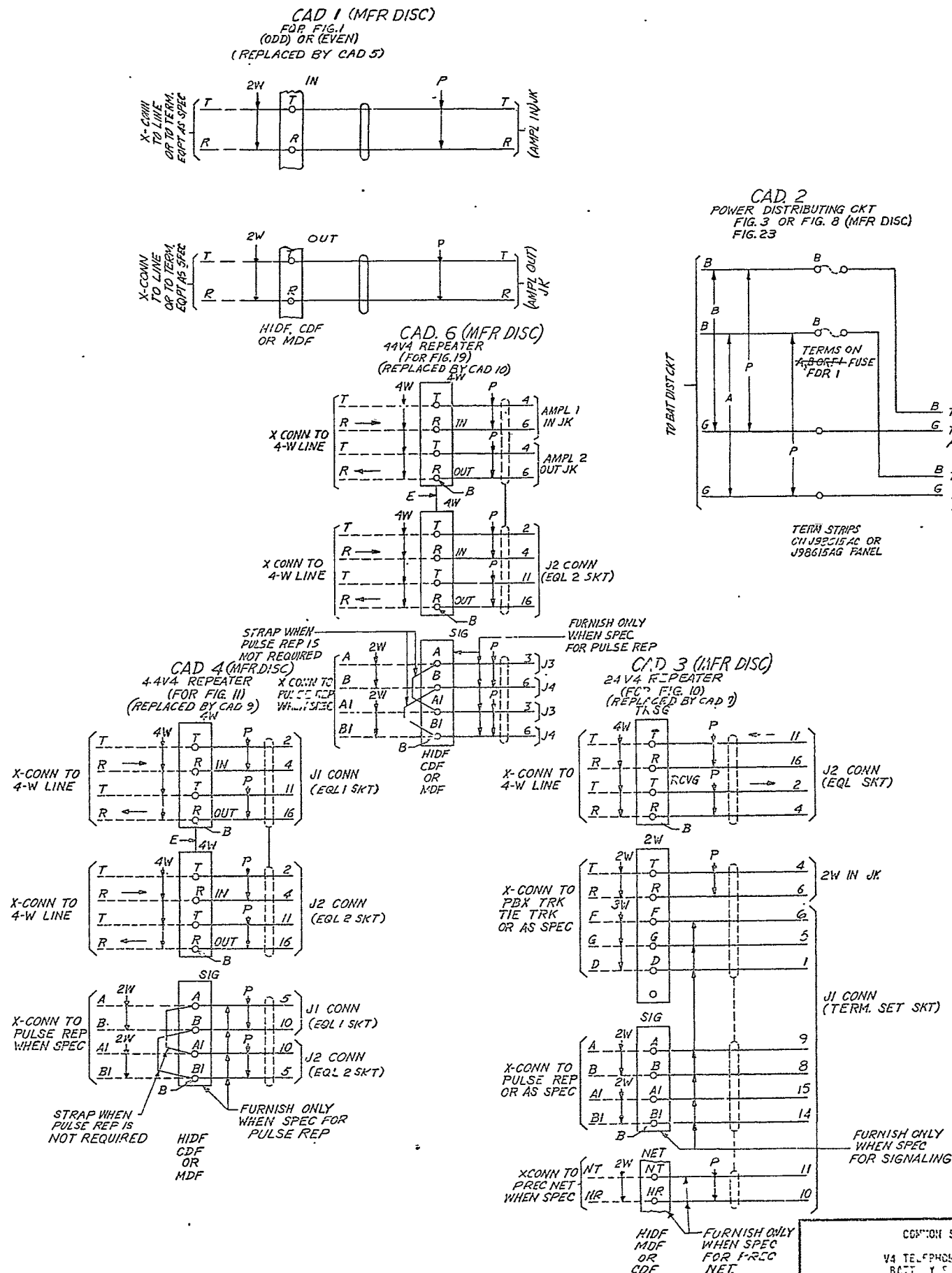
67458 15-411

EQUIPMENT NOTES:

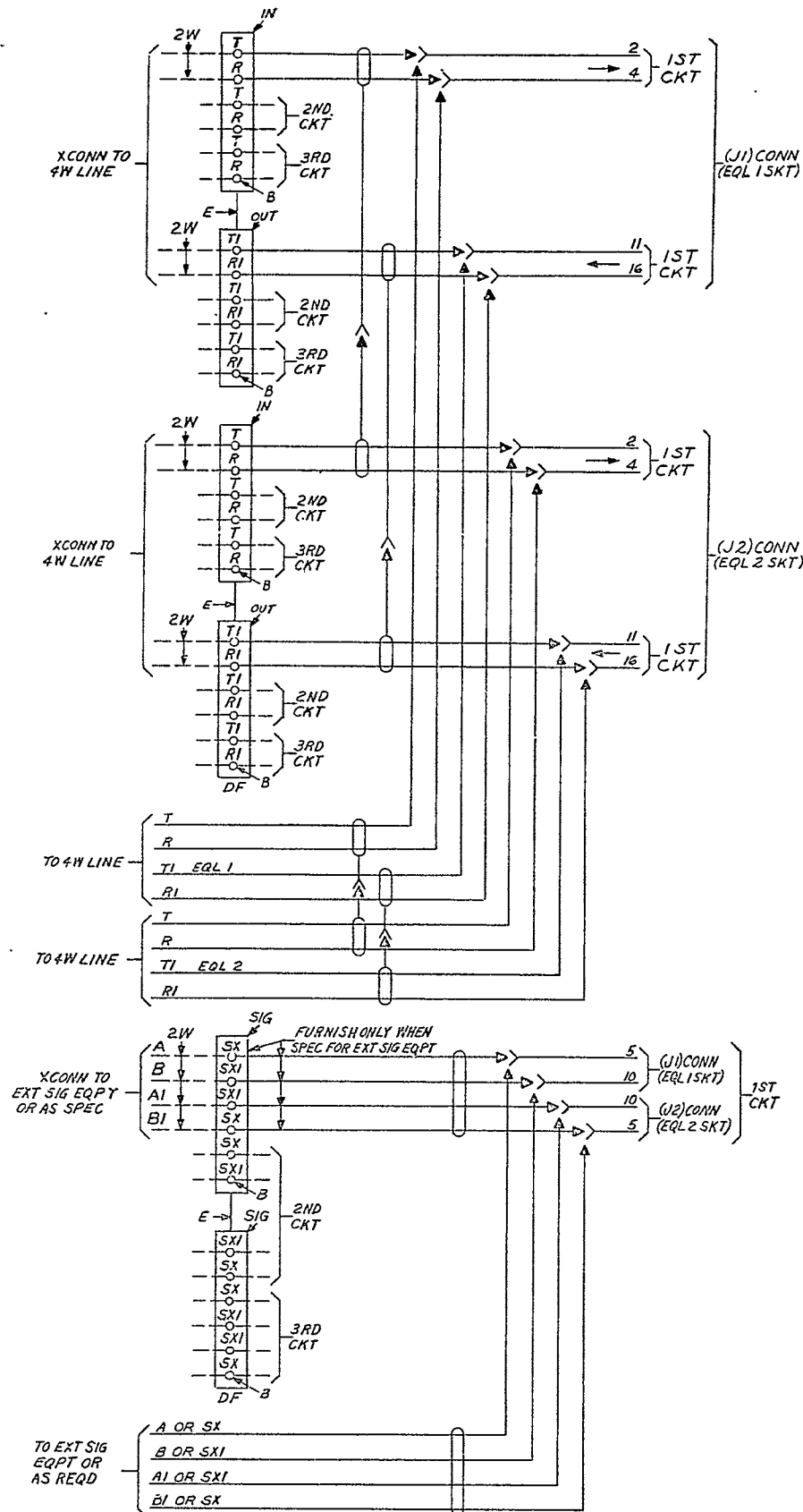
201. SOCKETS FOR MOUNTING 227 TYPE AMPLIFIERS ARE FURNISHED AS PART OF J98G15 MOUNTING PLATES.

202. DISTRIBUTION FRAME MAY BE OMITTED AND CABLING RUN DIRECTLY TO OTHER EQUIPMENT IF SPECIFIED.

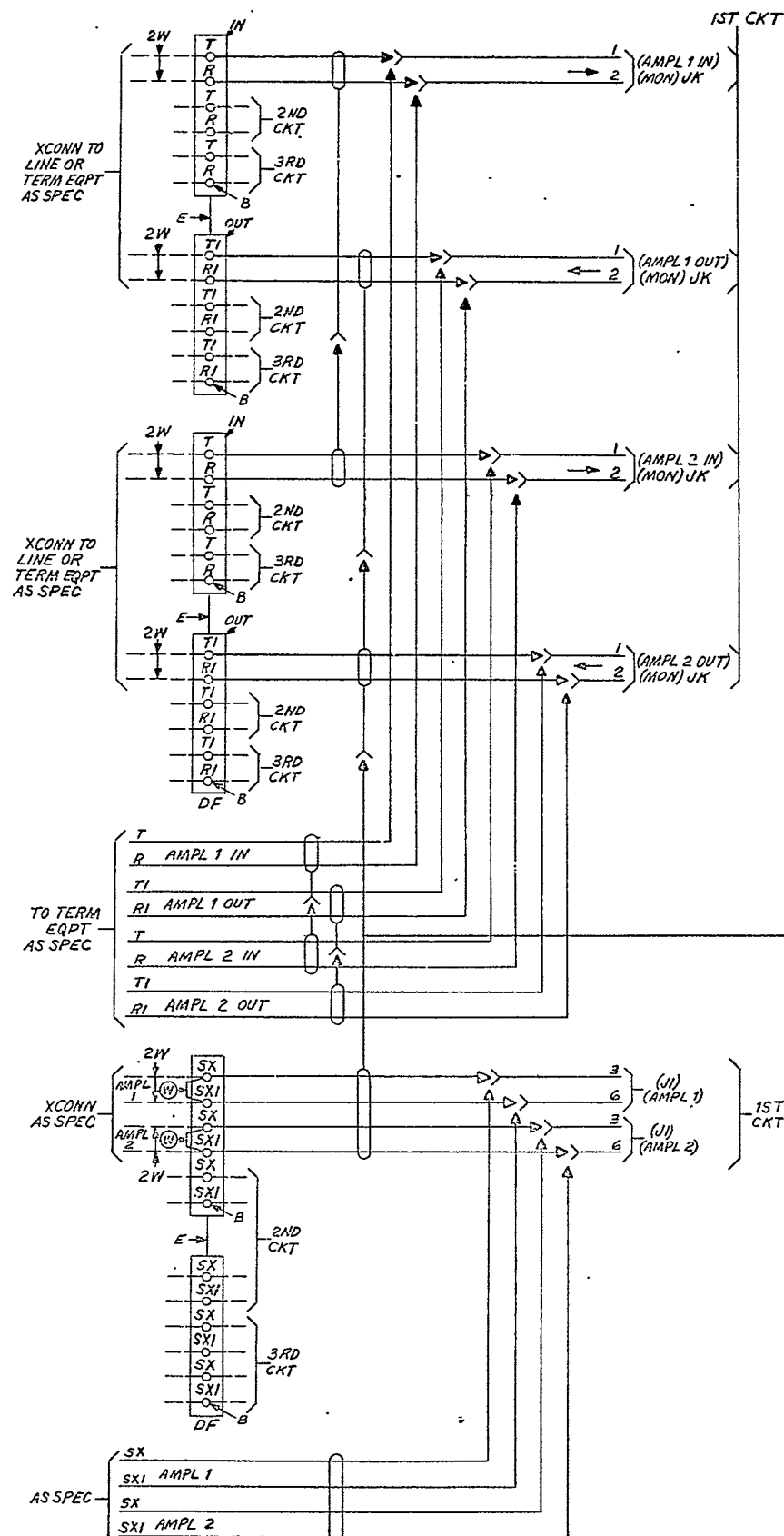
203. FOR THE J98G15 L BAY EQUIPPED ONLY WITH 424V4A REPEATERS IN TSPS NO.1 OFFICES, THE A & B FEEDERS OF FIG 27 MAY BE TIED TOGETHER SO THAT ALL 10 FUSES (F1 TO F10) ARE SUPPLIED FROM ONE BATTERY FEEDER.



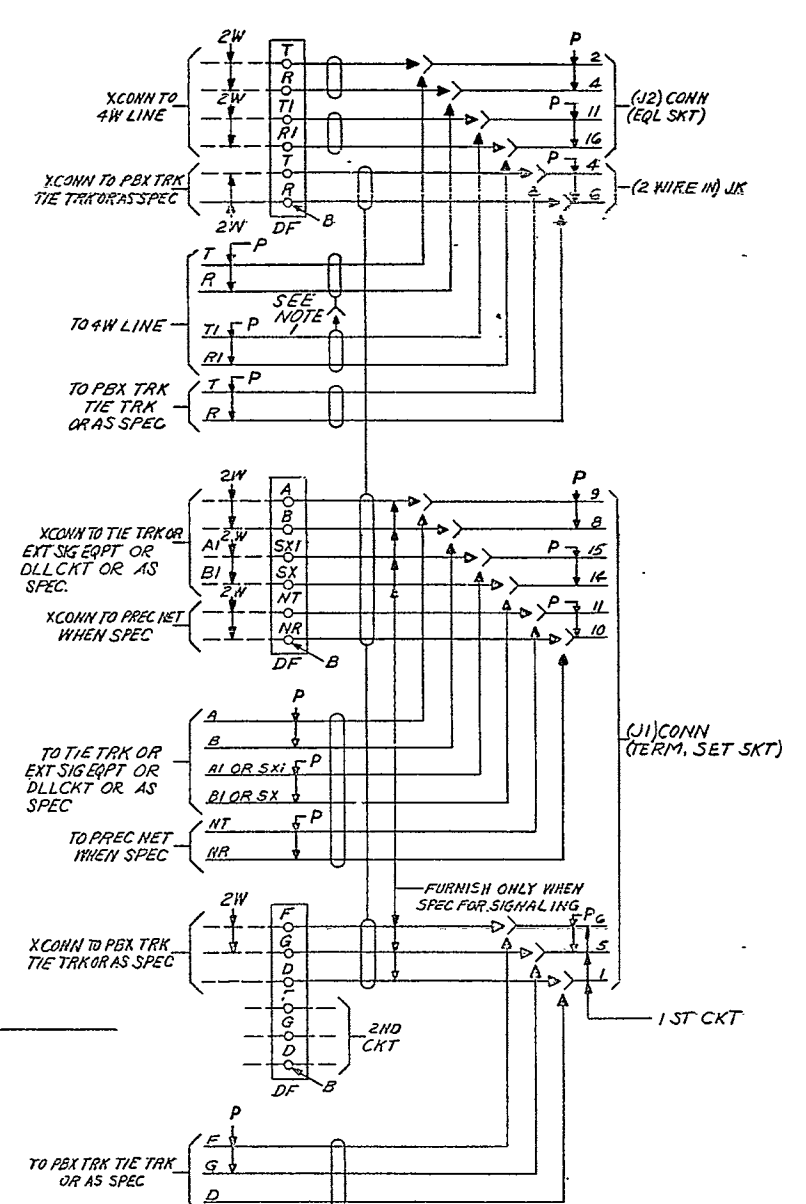
CAD 9 (MFR DISC)
(FOR FIG 11)
44V4A REPEATER
(REPLACED BY CAD 16)



CAD 8 (MFR DISC)
(FOR FIG 11)
BASIC V4 REPEATER
(REPLACED BY CAD 15)



CAD 7 (FOR FIG 10)
24V4A REPEATER



NOTES:
1. ALWAYS PROVIDE SEPARATE CABLING EXCEPT WHEN SPECIFICALLY SPECIFIED, OTHERWISE BY CUSTOMER OR CONNECTING DRAWING.

V4 TELEPHONE REPEATER
BATTERY SUPPLY AND
CONNECTING CIRCUITS

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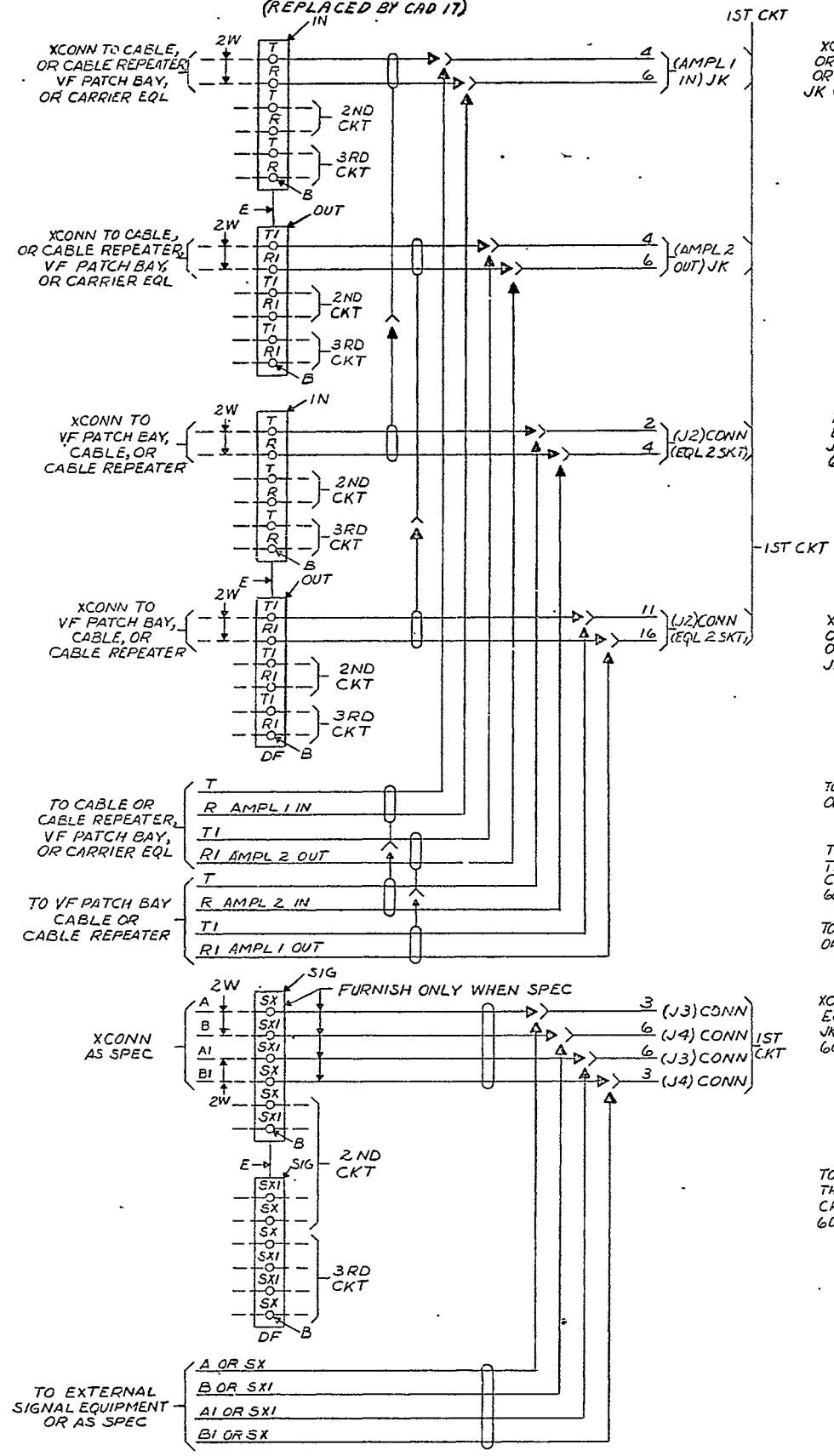
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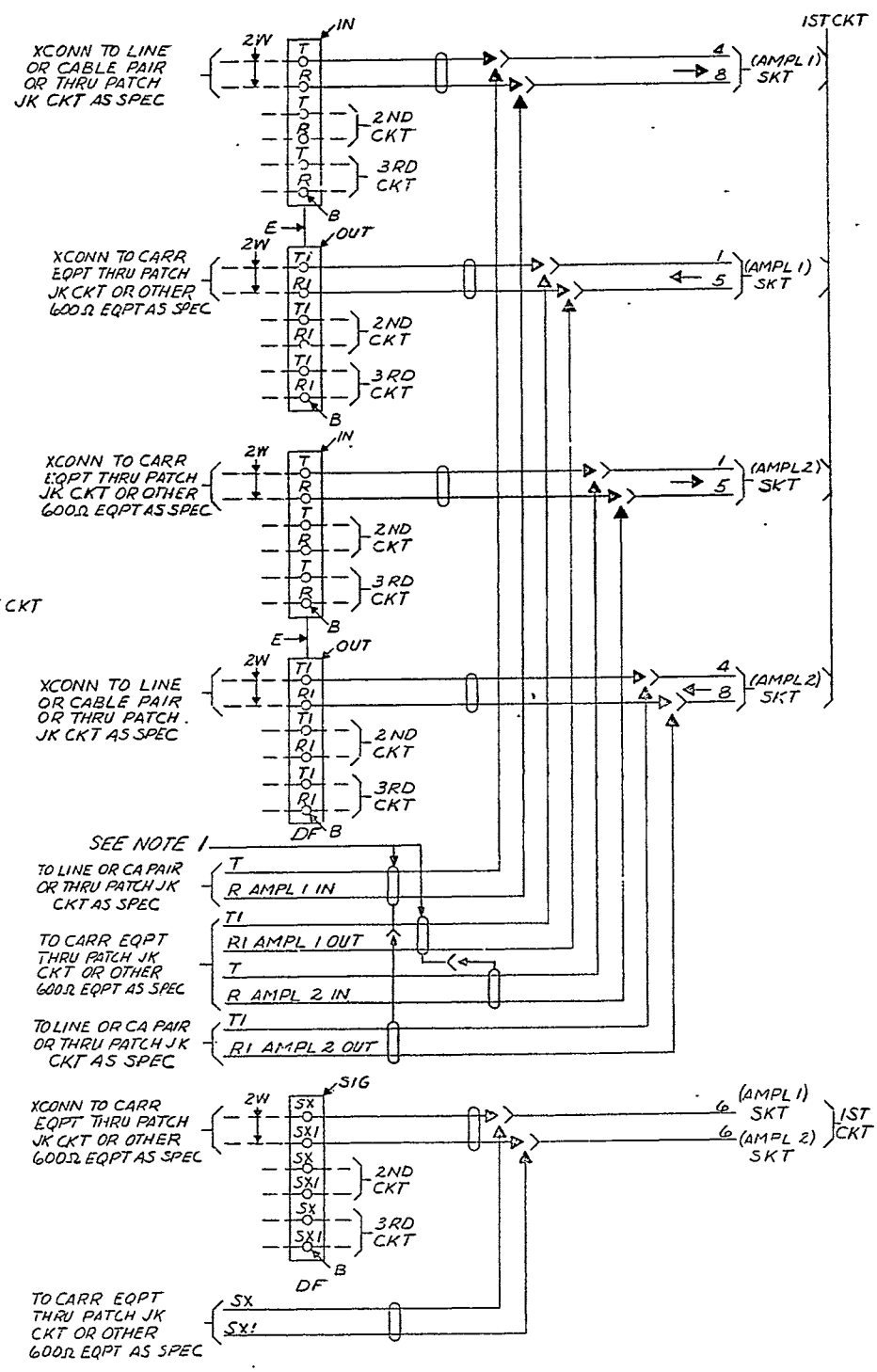
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DRAWING	ISSUE
7D	WKC
8D	JGF
10B	WKC
11D	JGF
14D	JGF
16D	JGF

CAD 10 (MFR DISC)
(FOR FIG 19)
44V4B REPEATER FOR SPECIAL SERVICE
OR DATA TRUNKS
(REPLACED BY CAD 17)



CAD 11
(FOR FIG 21)
AMPLIFIER SOCKET ARRANGED
FOR USING 849 TYPE NETWORKS



NOTES:
1. ALWAYS PROVIDE SEPARATE CABLING EXCEPT WHEN SPECIFICALLY SPECIFIED OTHERWISE BY CUSTOMER OR CONNECTING DRAWING.

DRAWING	ISSUE
70	1
108	1
16D	1

V4 TELEPHONE REPEATER BATTERY SUPPLY AND CONNECTING CIRCUITS		SD-97047-01-11
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TABLE A CONNECTING CHT INFORMATION FOR V4 TELEPHONE REPEATERS									
LEAD DESIGNATED A,B,C,D, ETC REFERS BACK TO CIRCUIT FIGURE					CONNECTS TO				
FIG. 101	FIG. 6	FIG. 5	FIG. 4	FIG. 3	FIG. 2	FIG. 1 AMPL 1	FIG. 1 AMPL 2	CIRCUIT NUMBER	CIRCUIT TITLE
A, B						A&B	A&B	SD9544-01	V4 TELEPHONE REPEATER LINE AND BALANCING APPLICATION SCHEMATIC

TABLE B													
ALARM CIRCUITS					LEADS				OPTION				
					MINOR ALARM		MAJOR ALARM						
					1	2	3	4	1	2	3	4	
STEP BY STEP SYSTEM	1				AC	A			DC	A			N, R
	2				11N	A			11N	A			N, R
	3				F	R			DL	R			N, R
	4												
	5												
	6												
	7												
	8												
	9												
	10												
	11												
PANEL SYSTEM	1				A	D							N, R
	2				A	D							N, R
	3				A								N
	4				A	D							N, R
	5												
	6												
	7												
	8												
	9												
	10												
	11												
CROSS BAR SYSTEM	1												
	2												
	3												
	4												
	5												
	6												
	7												
	8												
	9												
	10												
	11												
H.O. I ESS	1												
	2												
	3												
	4												
	5												
	6												
	7												
	8												
	9												
	10												
	11												
TSPS NO. 1	1												
	2												
	3												
	4												
	5												
	6												
	7												
	8												
	9												
	10												
	11												

*LEADS 1 & 2 SHALL BE MULTIPLIED TO OTHER SIMILARLY DESIGNATED LEADS IN SAME AISLE. MASTER SCANNER TERMINALS ASSOCIATED WITH LEADS SC(00)1 AND SC(00)2 (NOT SHOWN) ARE STRAPPED AT THE ASSOCIATED MASTER SCANNER FERRODS

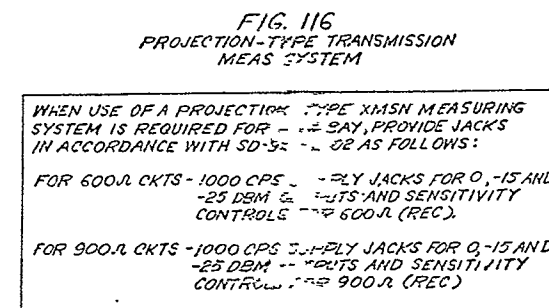
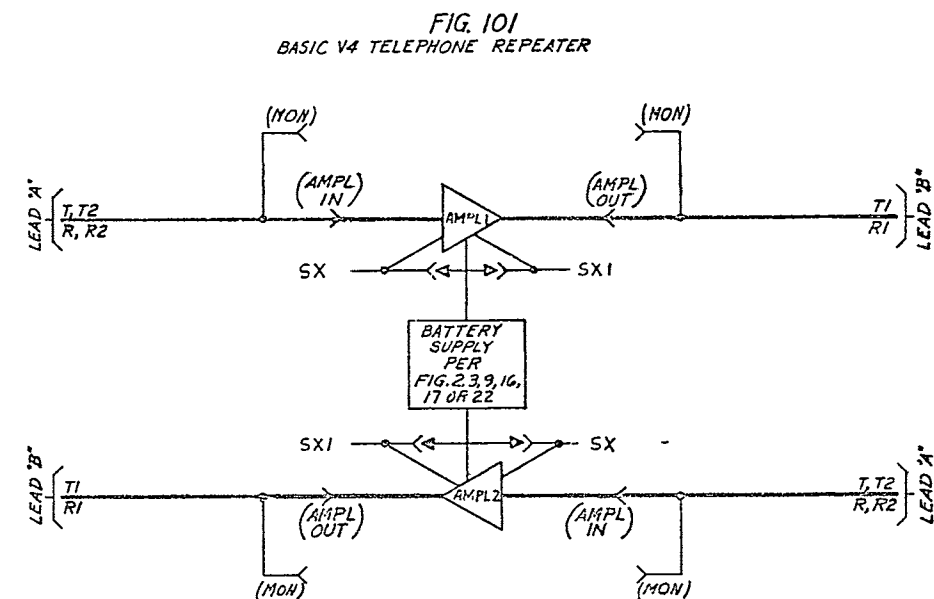


FIG. 102
24V4A OR C REPEATER ARRANGED
FOR H88 & D88 LOADED CABLE REQUIRING
GAIN, EQUALIZATION AND LOOP SIGNALING
SEE FIG. 10

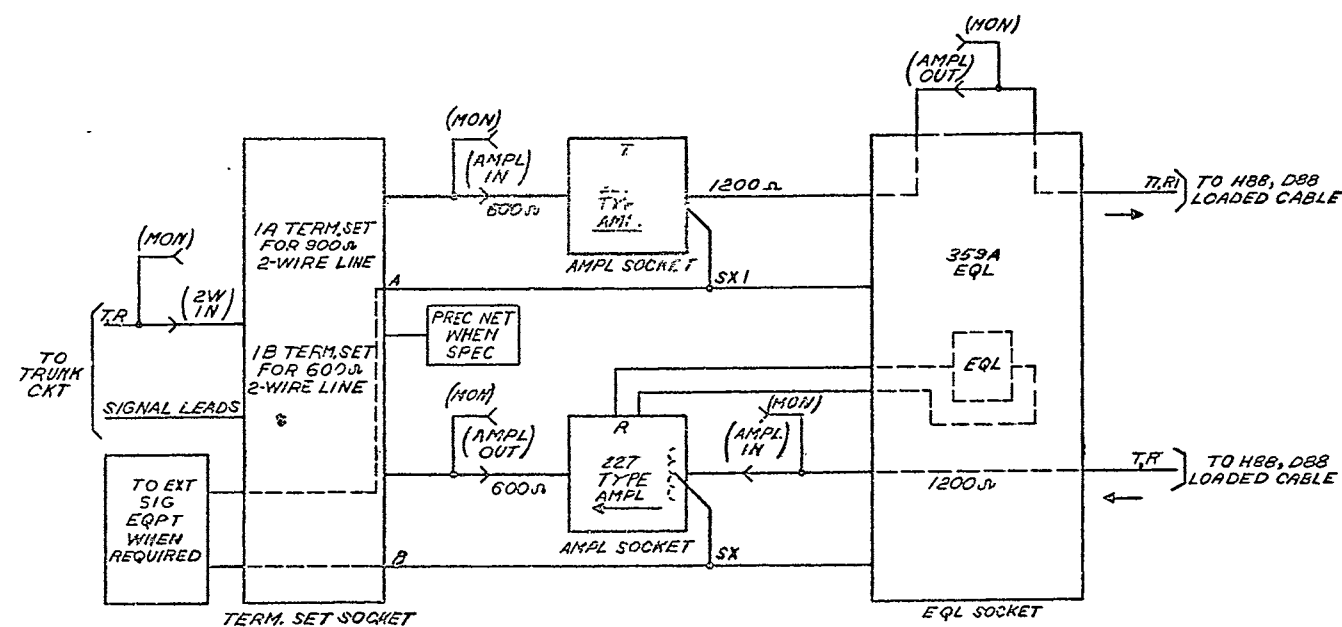


FIG. 103
24V4A OR C REPEATER
ARRANGED FOR NON-LOADED CABLE
REQUIRING GAIN AND LOOP SIGNALING
SEE FIG. 10

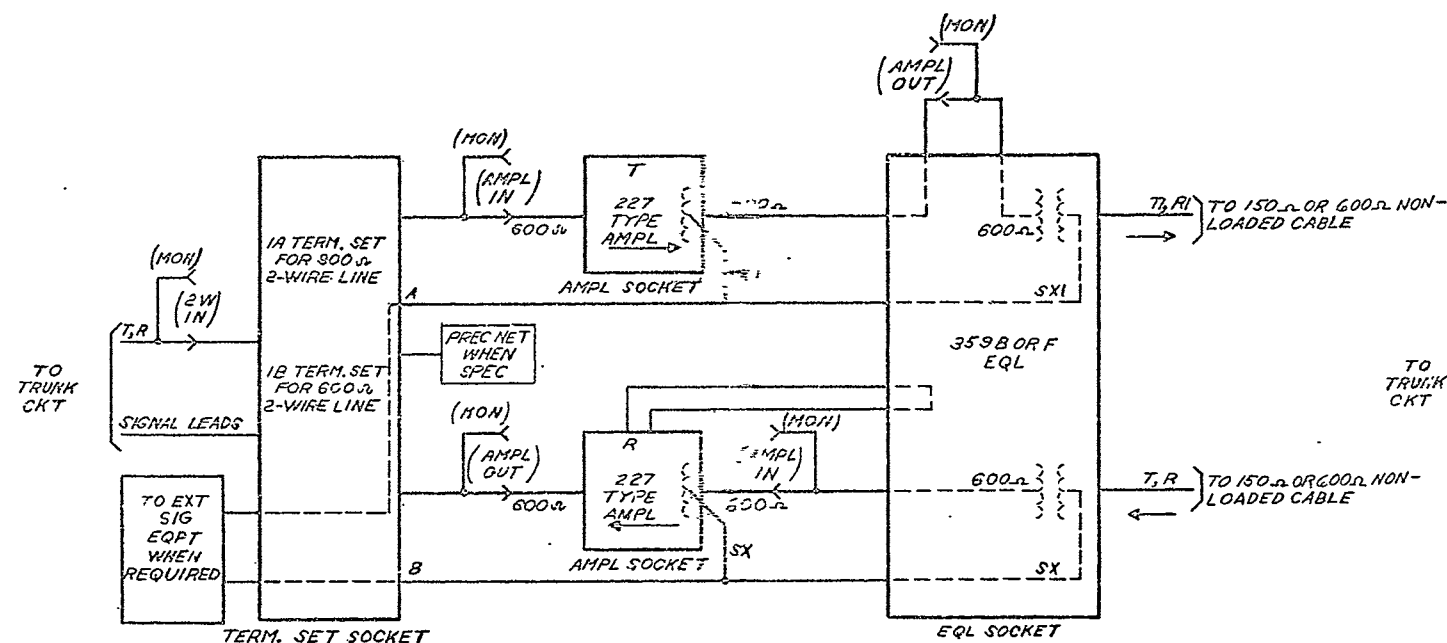


FIG. 104
24V4A OR C REPEATER ARRANGED
FOR 600Ω CIRCUITS
REQUIRING GAIN AND LOOP SIGNALING
SEE FIG. 10

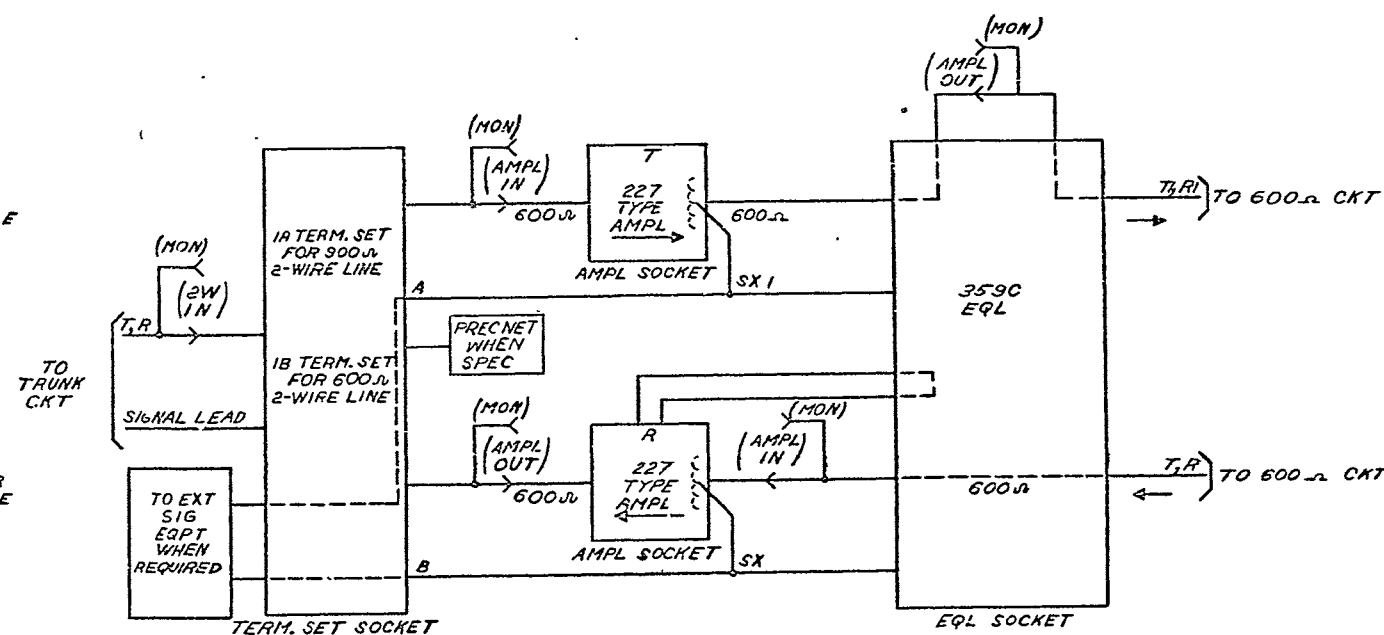
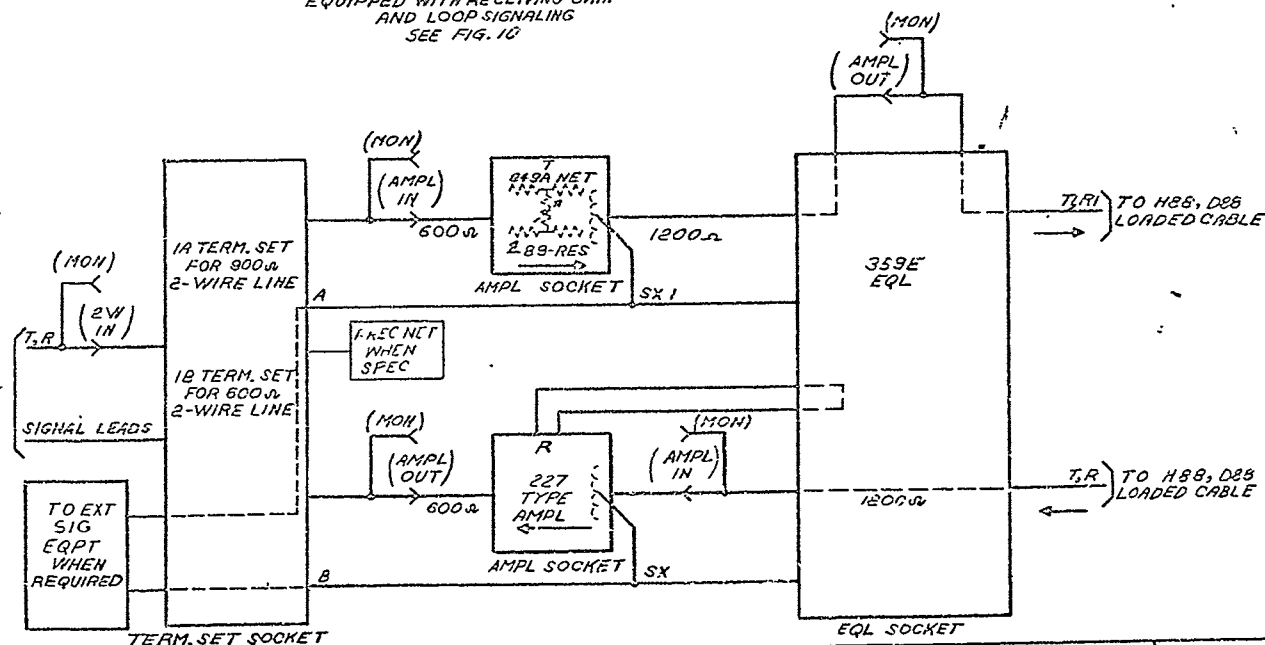


FIG. 105
24V4A OR C REPEATER
ARRANGED FOR H88 & D88 LOADED CABLE
REQUIRING NO TRANSMITTING GAIN, BUT
EQUIPPED WITH RECEIVING GAIN
AND LOOP SIGNALING
SEE FIG. 10



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FIG. 106
24V4A OR C REPEATER
ARRANGED FOR H88 & D88 LOADED CABLE
WHERE GAIN IS NOT REQUIRED BUT
TRANS LEVEL CONTROL, REC LEVEL
AND EQUALIZATION, AND LOOP SIGNALING
IS SUPPLIED
SEE FIG. 10.

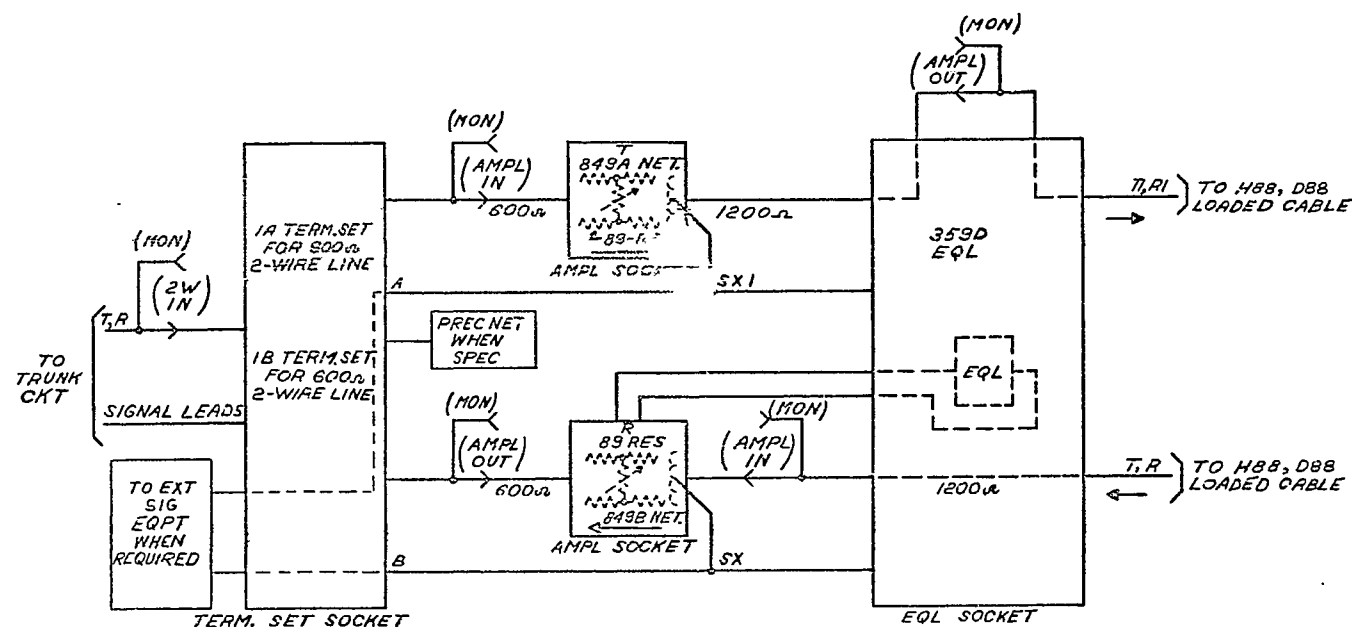


FIG. 107
24V4A OR C REPEATER
ARRANGED FOR H88 & D88 LOADED CABLE
WHERE GAIN IS NOT REQUIRED BUT
TRANS AND REC LEVEL ADJUSTMENT
AND LOOP SIGNALING IS DESIRED
SEE FIG. 10

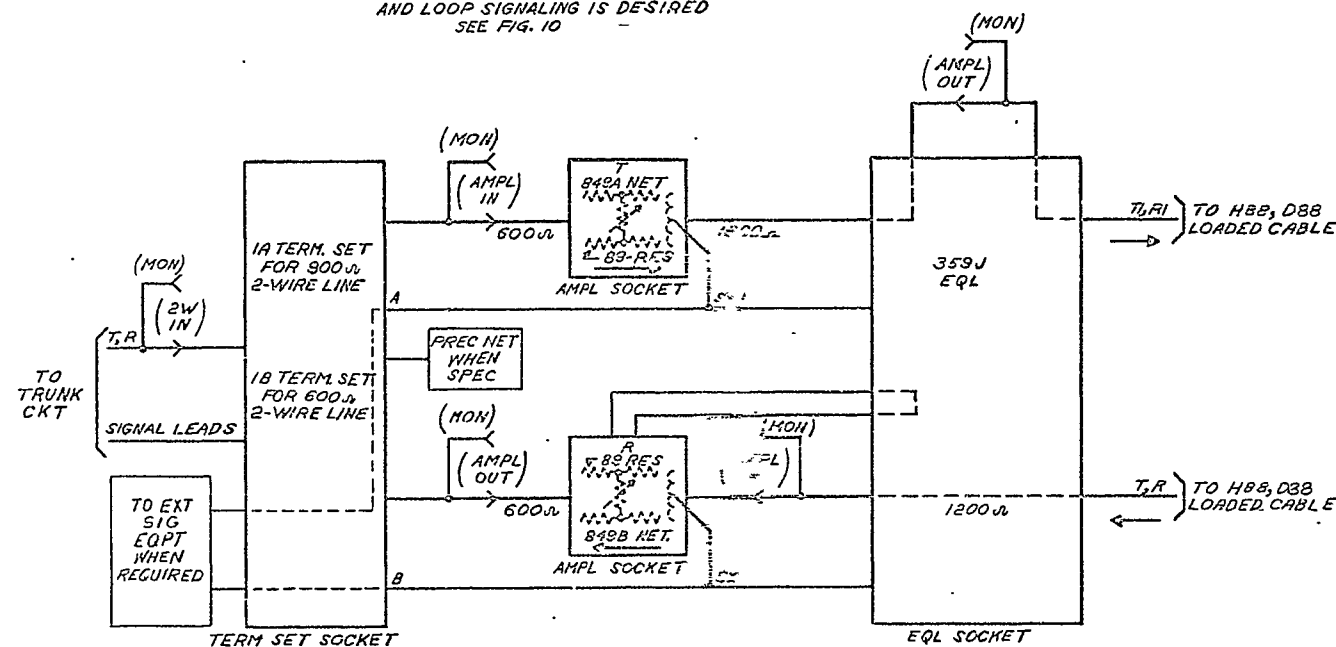


FIG. 108
44V4A REPEATER
PLUS-IN UNITS ARRANGED FOR H88 & D88
LOADED CABLE REQUIRING GAIN, EQUALIZATION
AND SIMPLEX SIGNALING
SEE FIG. 11

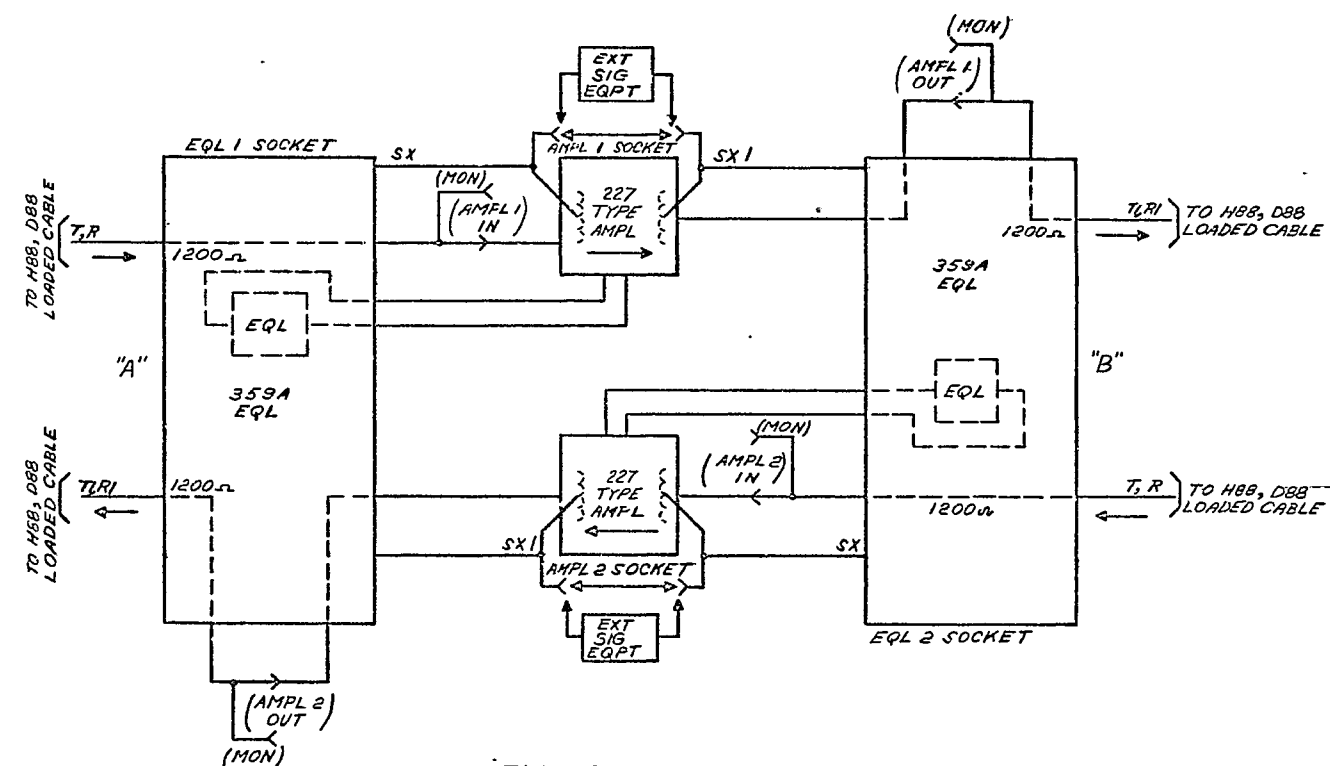


FIG. 109
44V4A REPEATER
PLUS-IN UNITS ARRANGED FOR NON-LOADED
CABLE ON 'A' SIDE, H88 & D88 LOADED CABLE ON 'B' SIDE
WITH GAIN, EQUALIZATION, AND SIMPLEX SIGNALING
SEE FIG. 11

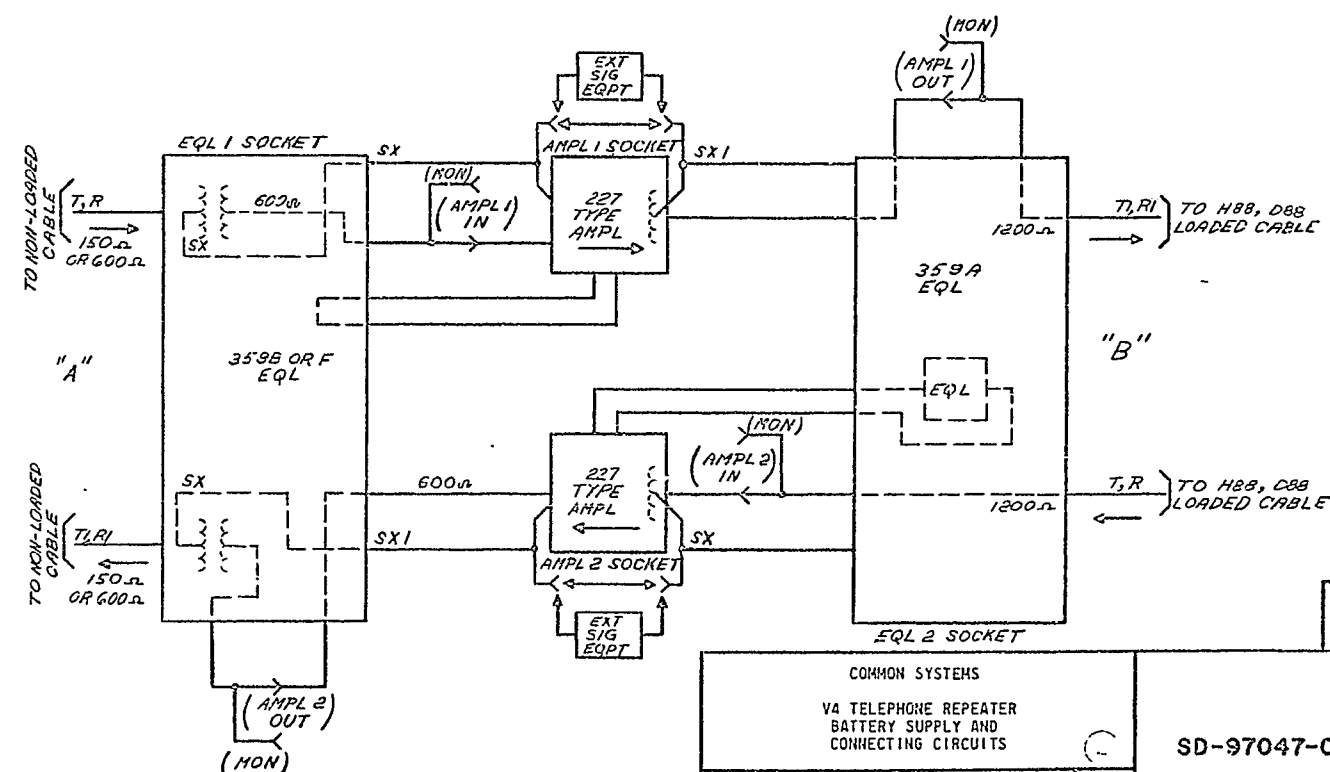


FIG. 110
44V4A REPEATER
PLUG-IN UNITS ARRANGED FOR NON-LOADED
CABLE ON "B" SIDE H88 & D88 LOADED CABLE ON "A" SIDE
WITH GAIN, EQUALIZATION, AND SIMPLEX SIGNALING
SEE FIG. 11

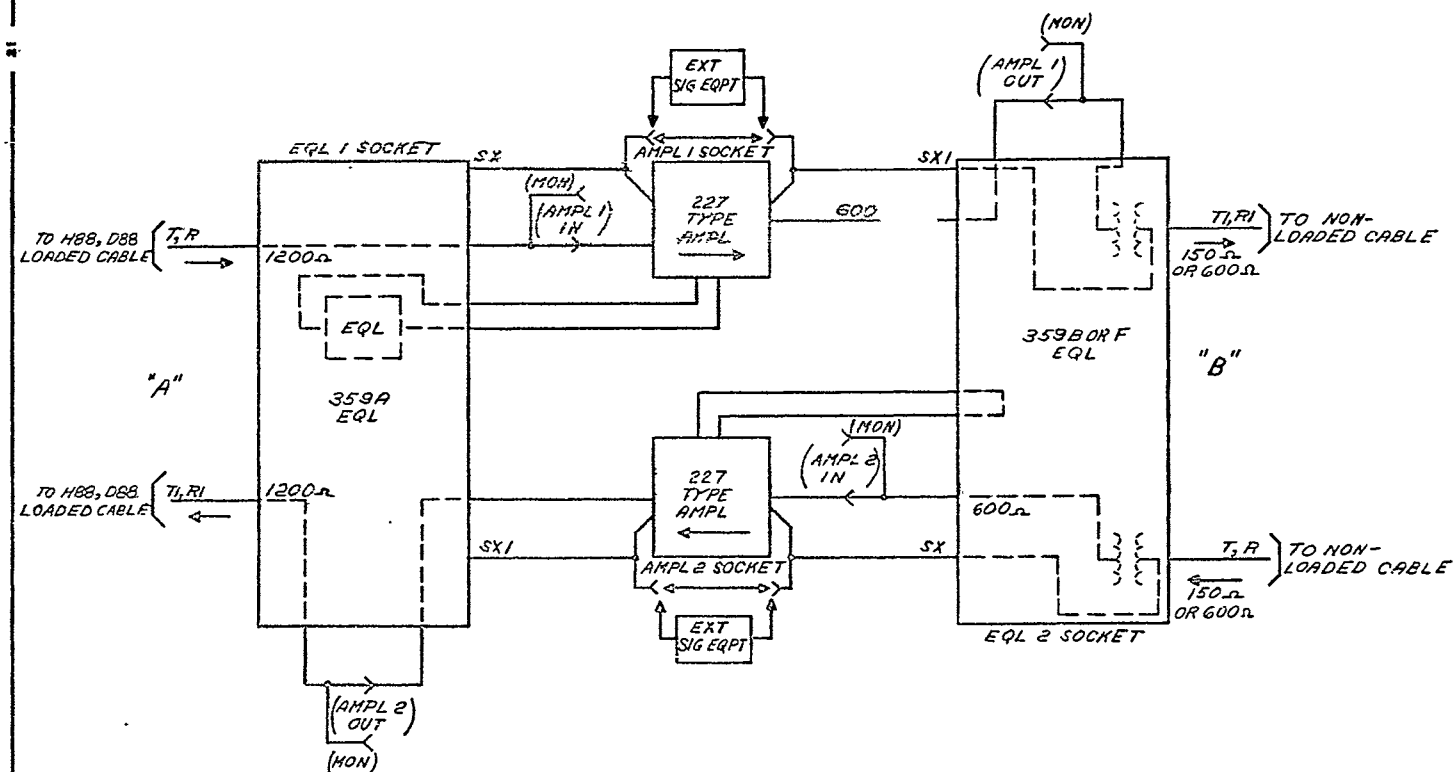


FIG. 111
44V4A REPEATER
PLUG-IN UNITS ARRANGED FOR NON-LOADED
CABLE REQUIRING GAIN, EQUALIZATION, AND
SIMPLEX SIGNALING
SEE FIG. 11

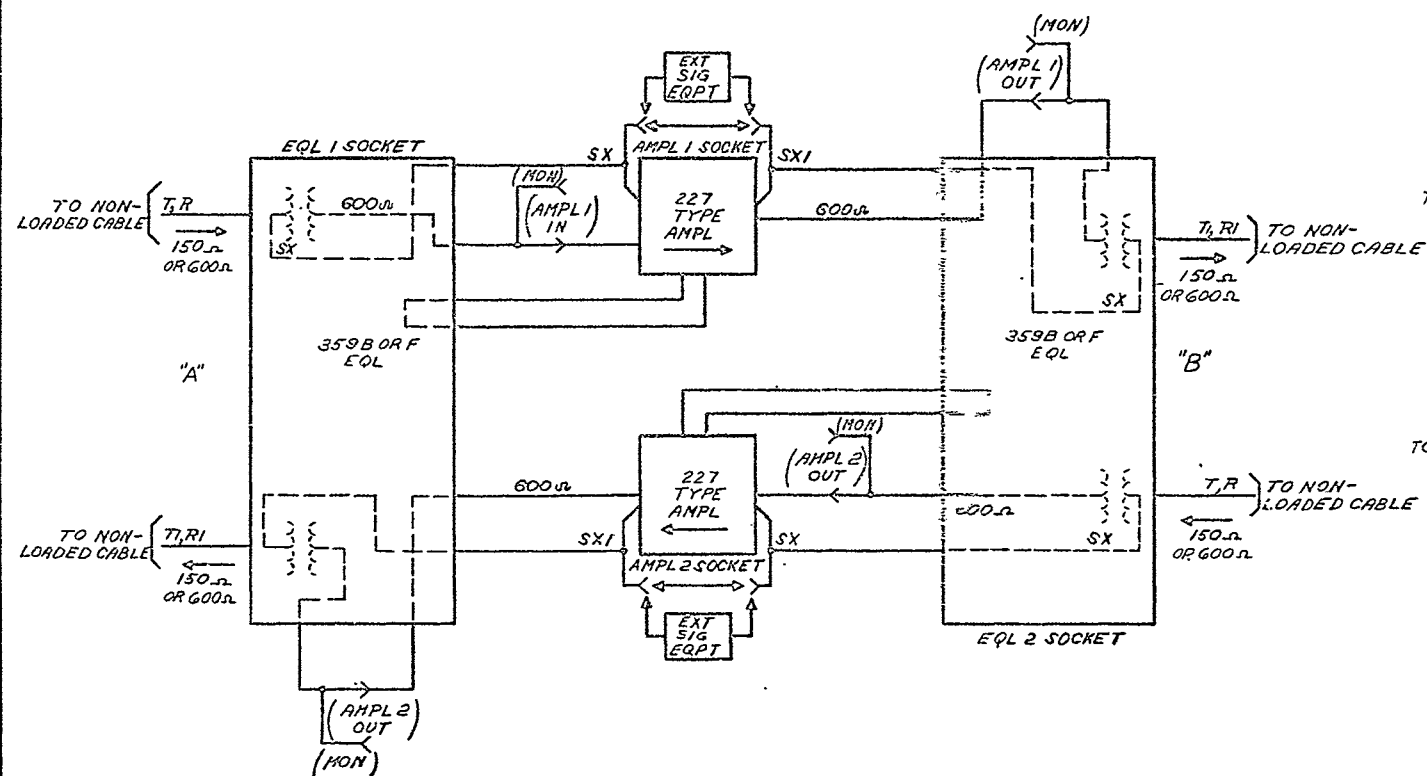


FIG. 112
44V4A REPEATER
PLUG-IN UNITS ARRANGED FOR 600 OHM
CIRCUITS WITH GAIN AND SIMPLEX SIGNALING
SEE FIG. 11

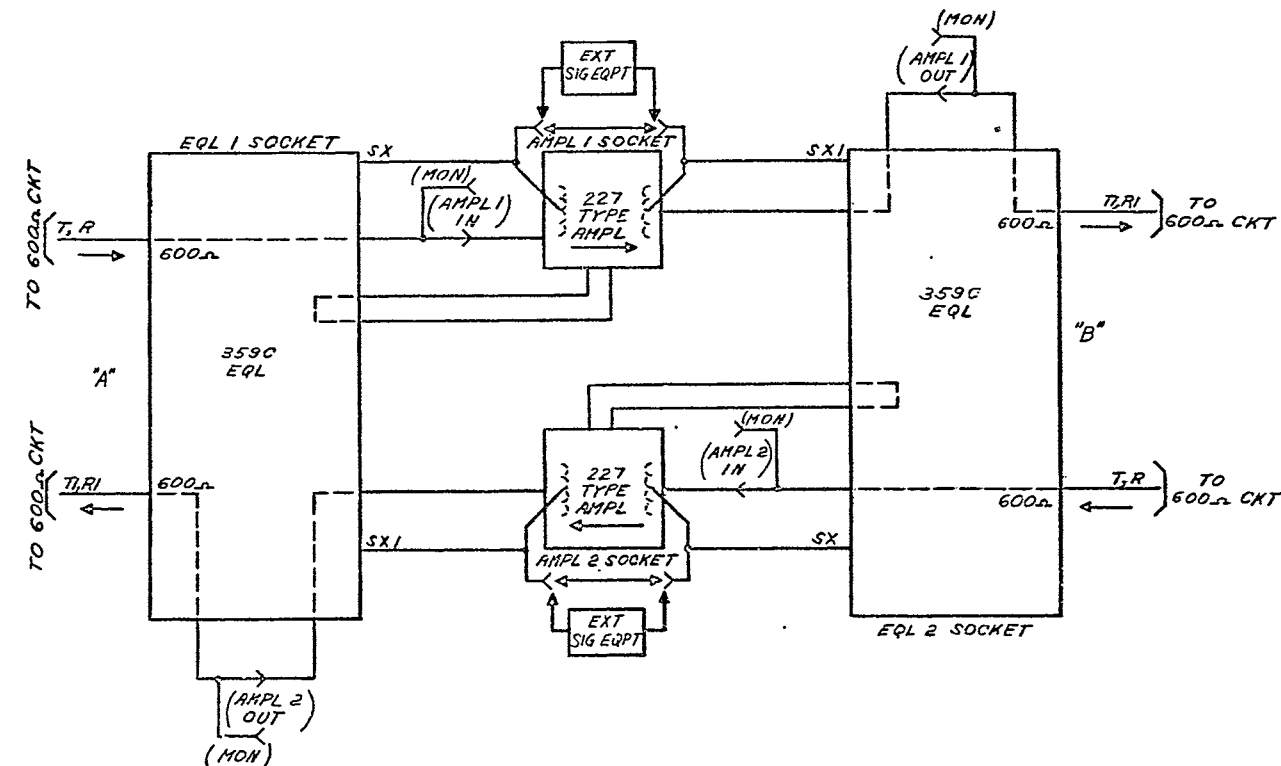
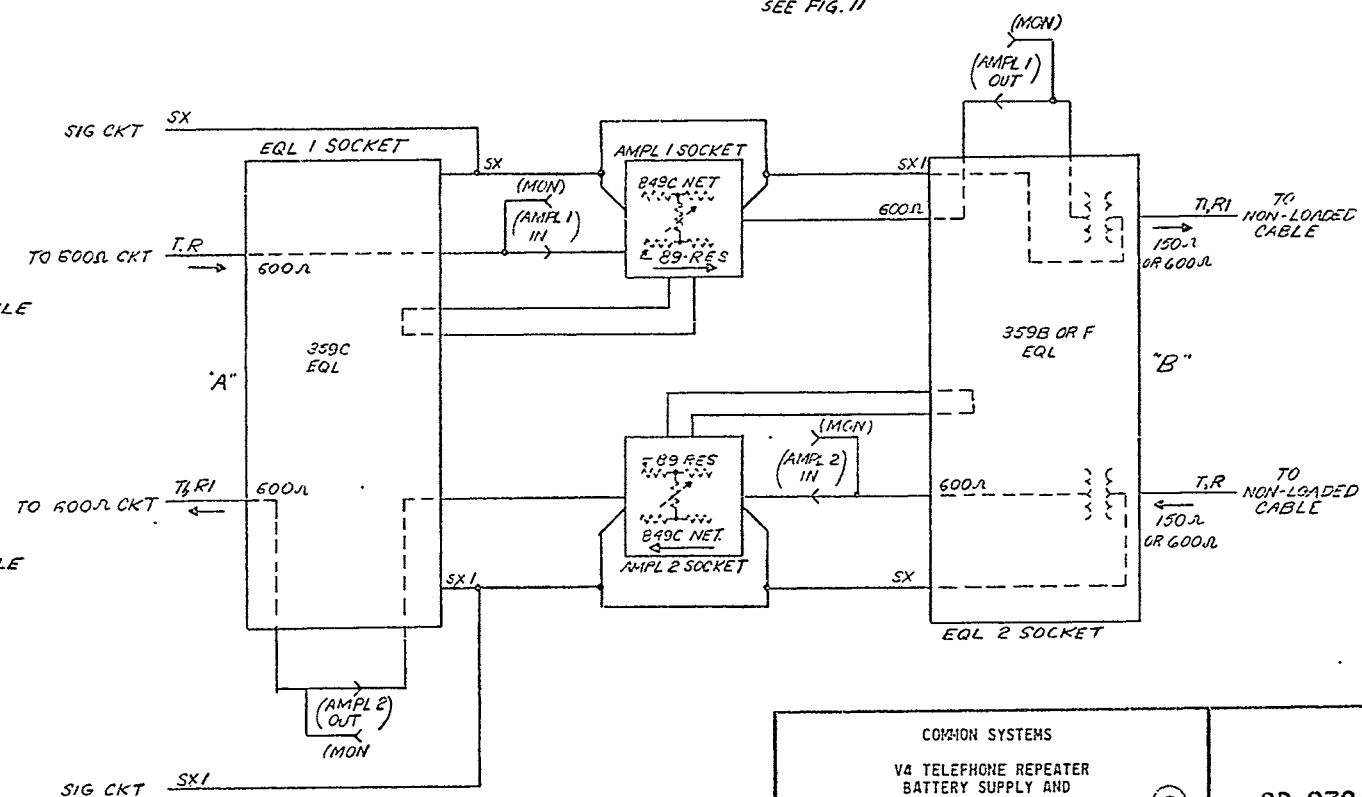


FIG. 113
44V4A REPEATER
PLUG-IN UNITS ARRANGED FOR 600Ω CIRCUITS ON
"A" SIDE, NON-LOADED CABLE ON "B" SIDE, WITH
TRANS AND REC LEVEL CONTROL AND SIMPLEX SIGNALING
SEE FIG. 11



COMMON SYSTEMS
V4 TELEPHONE REPEATER
BATTERY SUPPLY AND
CONNECTING CIRCUITS
BELL TELEPHONE LABORATORIES
INCORPORATED

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6S

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FIG. 114
44V4A REPEATER
PLUG-IN UNITS ARRANGED FOR 600Ω CIRCUIT ON
"A" SIDE, H88 & D88 LOADED CABLE ON "B" SIDE WITH
TRANS AND REC LEVEL CONTROL, REC CIRCUIT
EQUALIZATION AND SIMPLEX SIGNALING
SEE FIG. 11

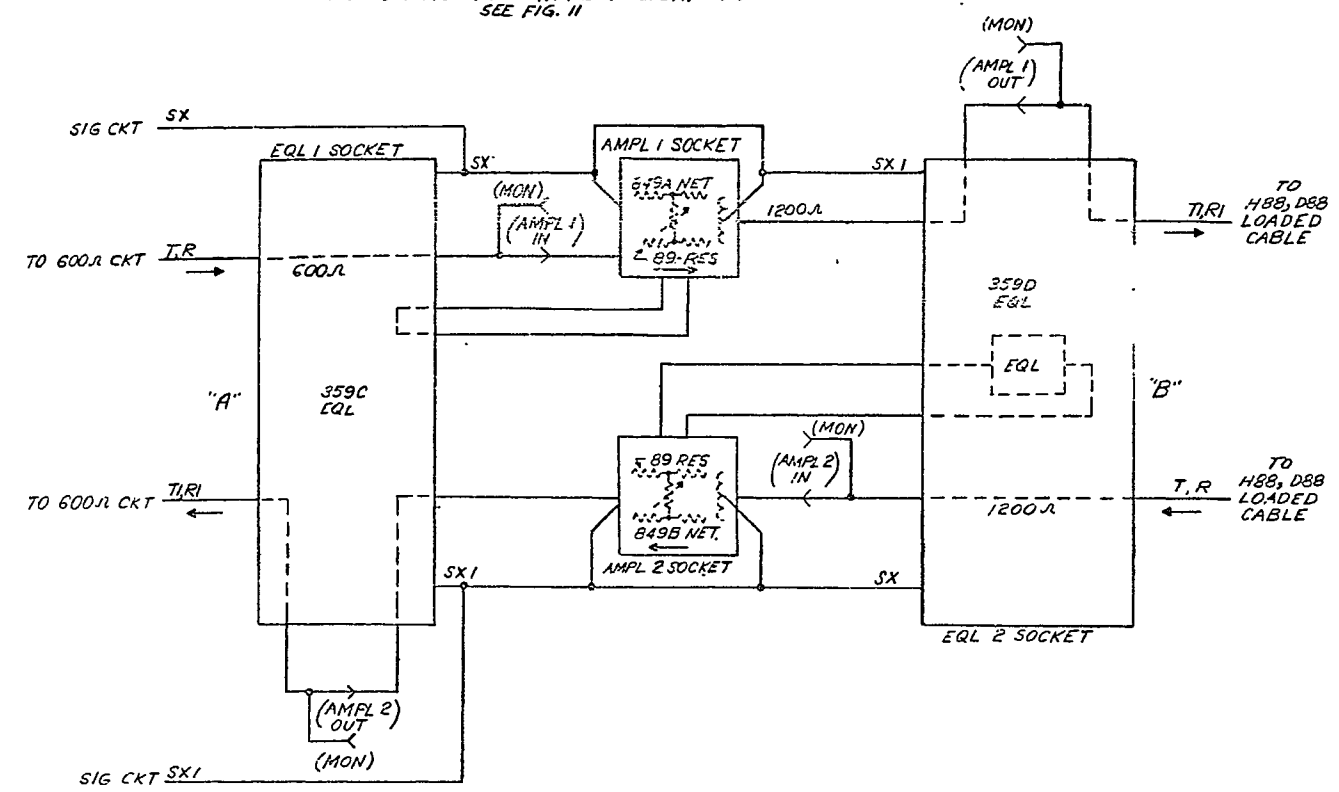


FIG. 115
24V4A OR C REPEATER
ARRANGED FOR 600Ω CIRCUITS REQUIRING
NO GAIN, TRANS AND REC LEVEL CONTROL
AND LOOP SIGNALING
SEE FIG. 10

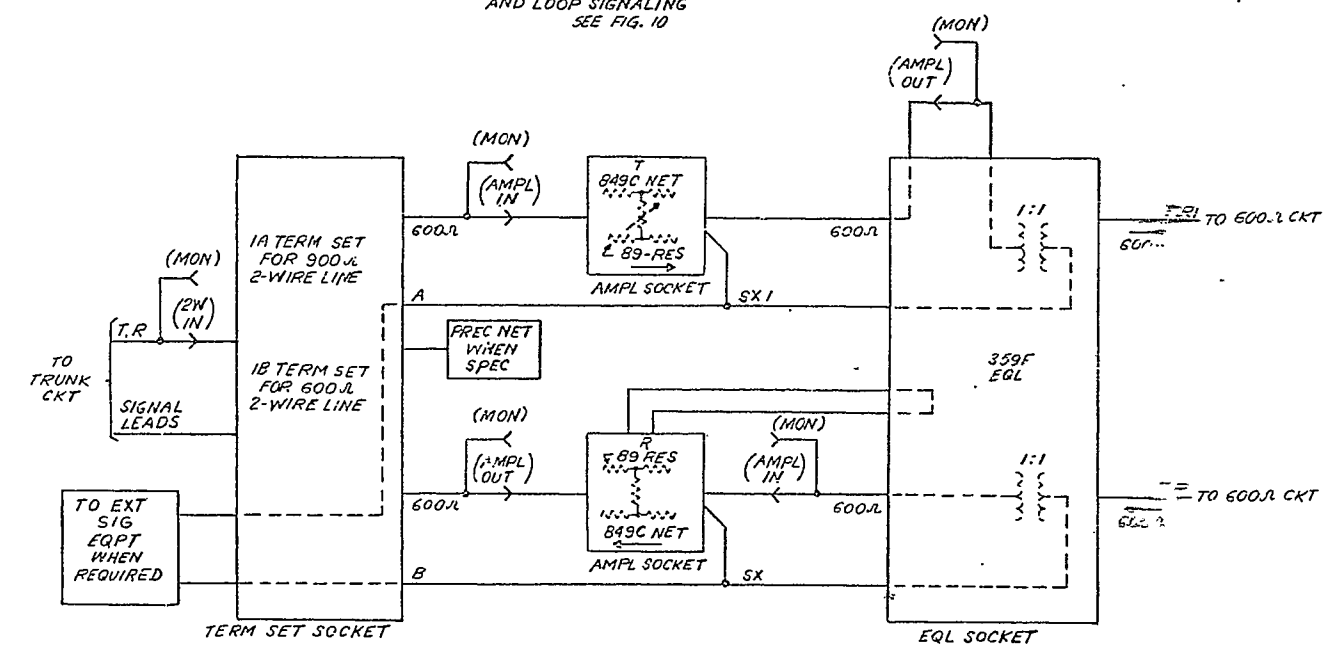
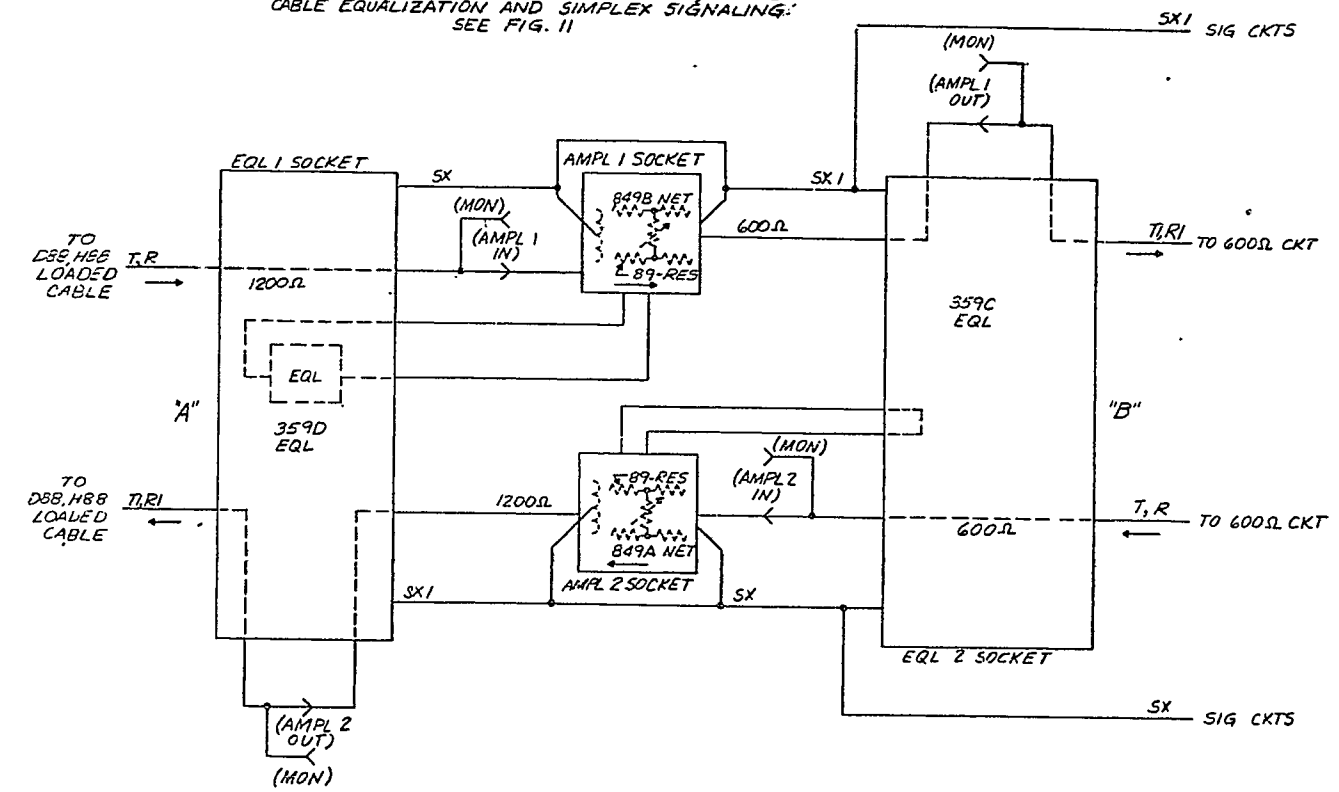


FIG. 117
44V4A REPEATER
PLUG-IN UNITS ARRANGED FOR D88 & H88 LOADED CABLE
ON "A" SIDE AND 600Ω CIRCUITS ON "B" SIDE,
WITH TRANS AND REC LEVEL CONTROL, LOADED
CABLE EQUALIZATION AND SIMPLEX SIGNALING.
SEE FIG. 11



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DRAWING	ISSUE
6D	EEL
7D	2A
12D	2B
14D	2C

FIG 118
44V4A REPEATER
FOR EXTENDING 600 OHM CARRIER
CIRCUITS REQUIRING NO GAIN ON
"A" SIDE, TO DBB & HBB LOADED
CABLE REQUIRING GAIN AND EQUALIZATION
ON "B" SIDE
SEE FIG. 11

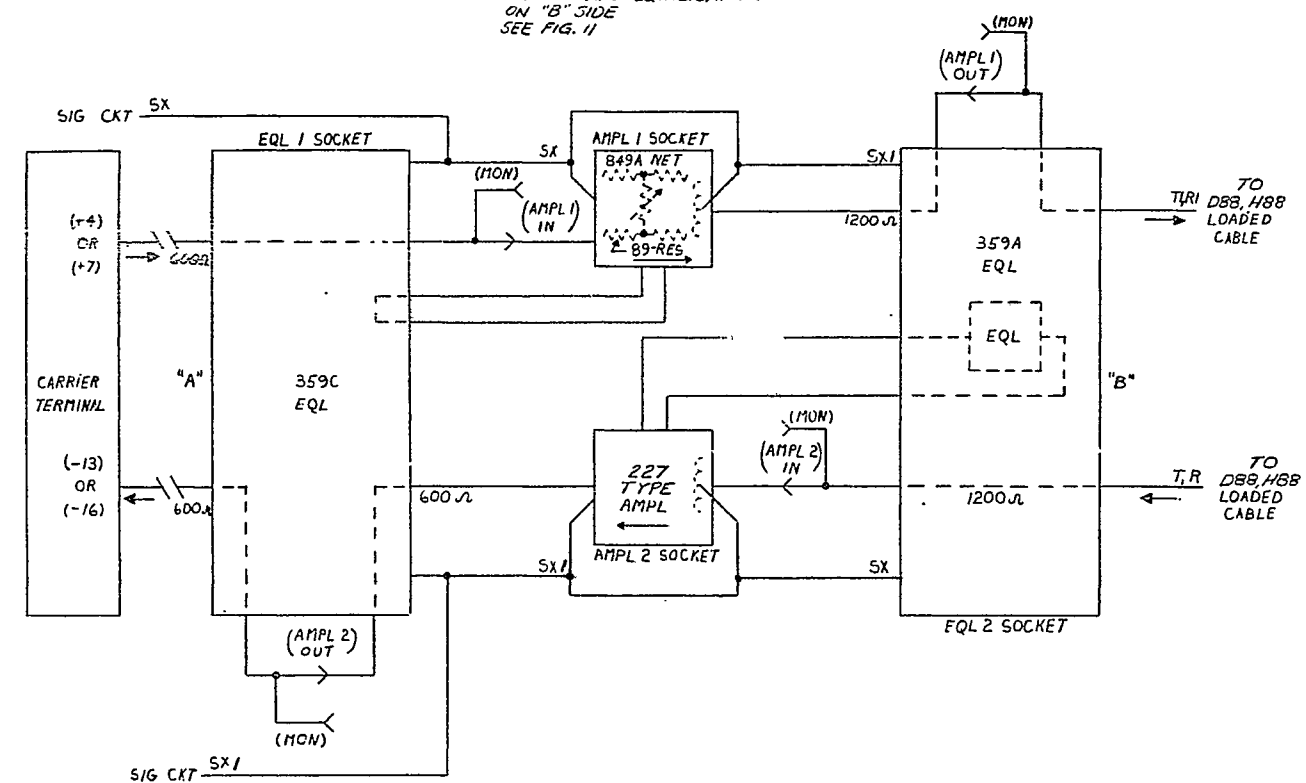


FIG 119
44V4A REPEATER
FOR EXTENDING DBB & HBB LOADED CABLE
REQUIRING GAIN AND EQUALIZATION ON "A"
SIDE, TO 600 OHM CARRIER CIRCUITS REQUIRING
LEVEL CONTROL, NO GAIN AND NO EQUALIZATION
ON "B" SIDE
SEE FIG. 11

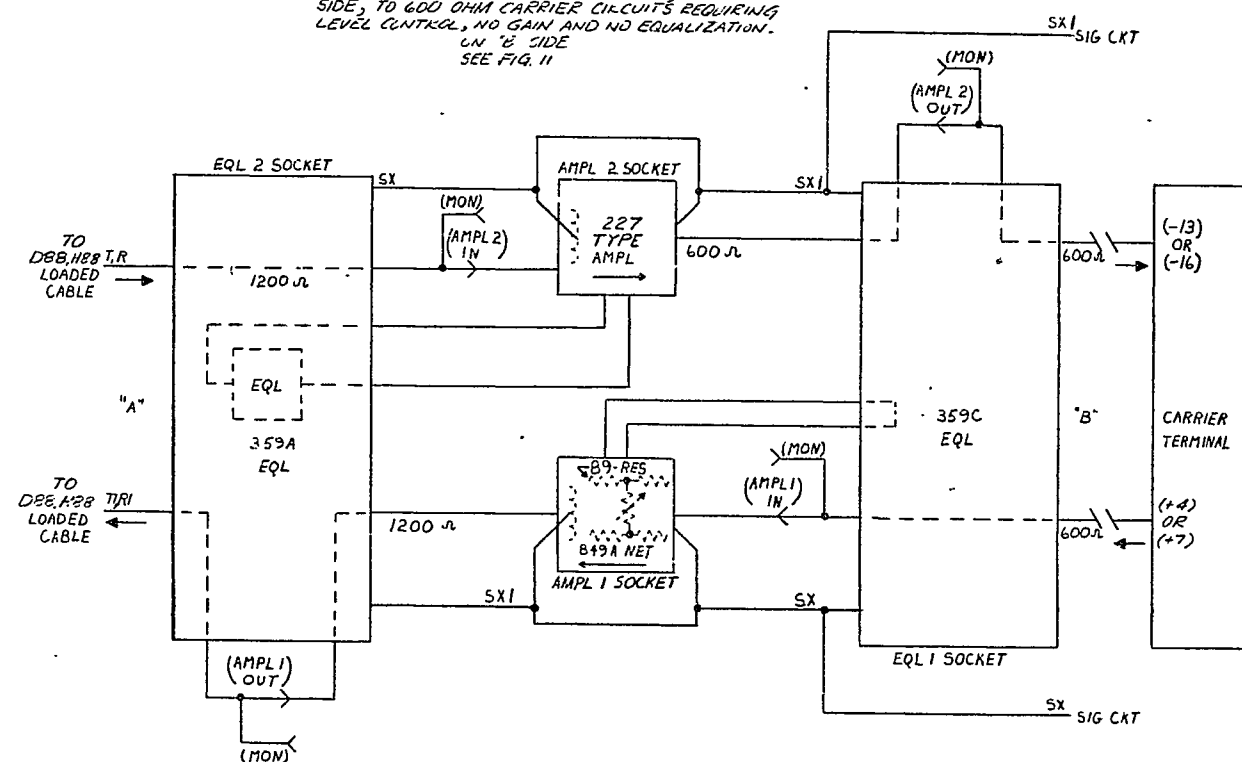


FIG 120
44V4A REPEATER
FOR EXTENDING 600 OHM CARRIER CIRCUITS
REQUIRING NO GAIN OR EQUALIZATION ON "A"
SIDE TO NON-LOADED CABLE REQUIRING GAIN
AND NO EQUALIZATION ON "B" SIDE
SEE FIG. 11

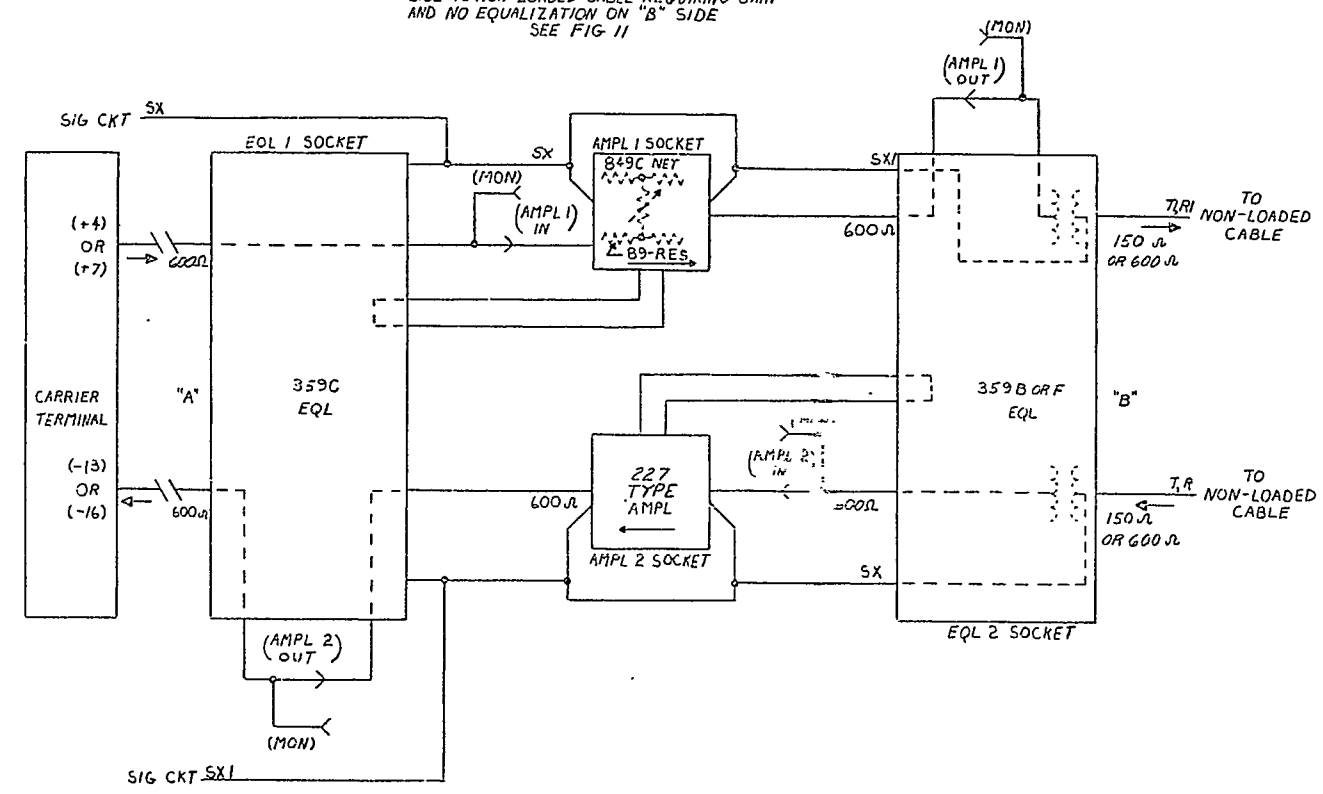
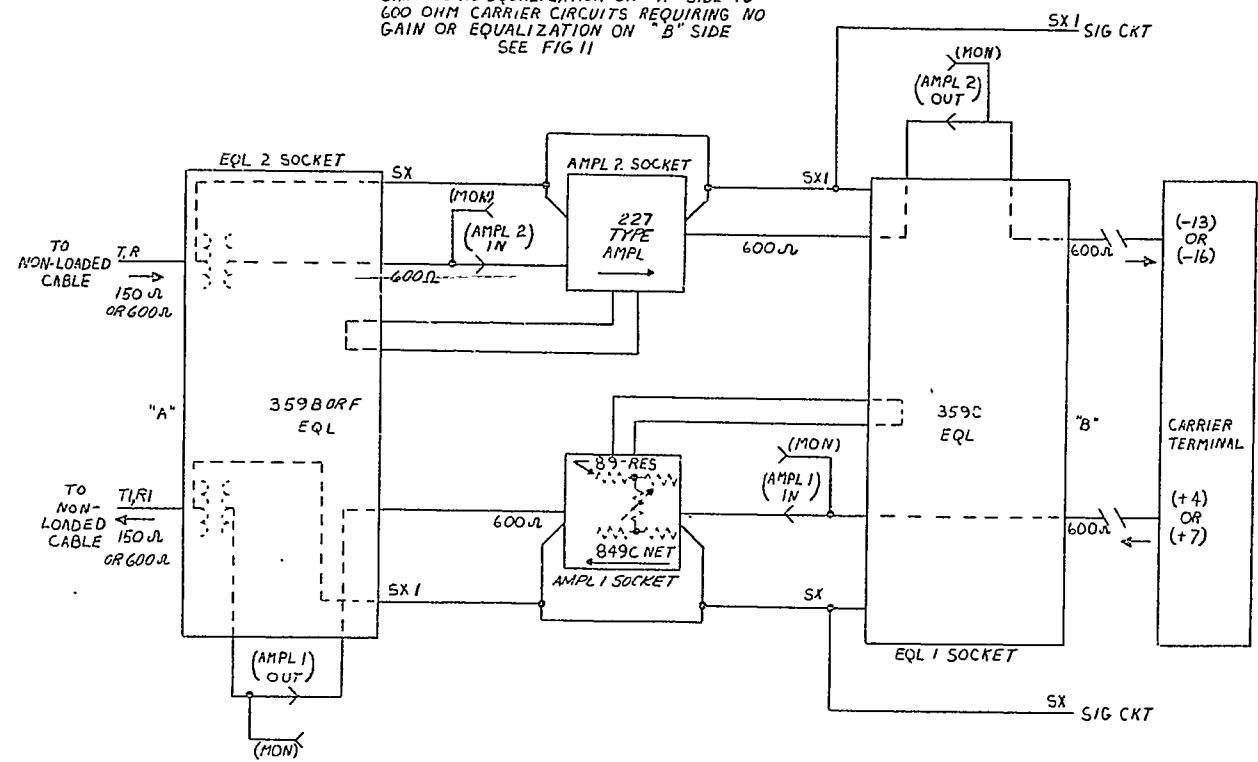


FIG 121
44V4A REPEATER
FOR EXTENDING NON-LOADED CABLE REQUIRING
GAIN AND NO EQUALIZATION ON "A" SIDE TO
600 OHM CARRIER CIRCUITS REQUIRING NO
GAIN OR EQUALIZATION ON "B" SIDE
SEE FIG. 11



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14

FIG. 122
44V4A REPEATER
FOR EXTENDING 600 OHM CARRIER
CIRCUITS TO NON-LOADED CABLE REQUIRING
LEVEL CONTROL BUT NO GAIN OR EQUALIZATION
ON BOTH "A" AND "B" SIDES
SEE FIG. 11

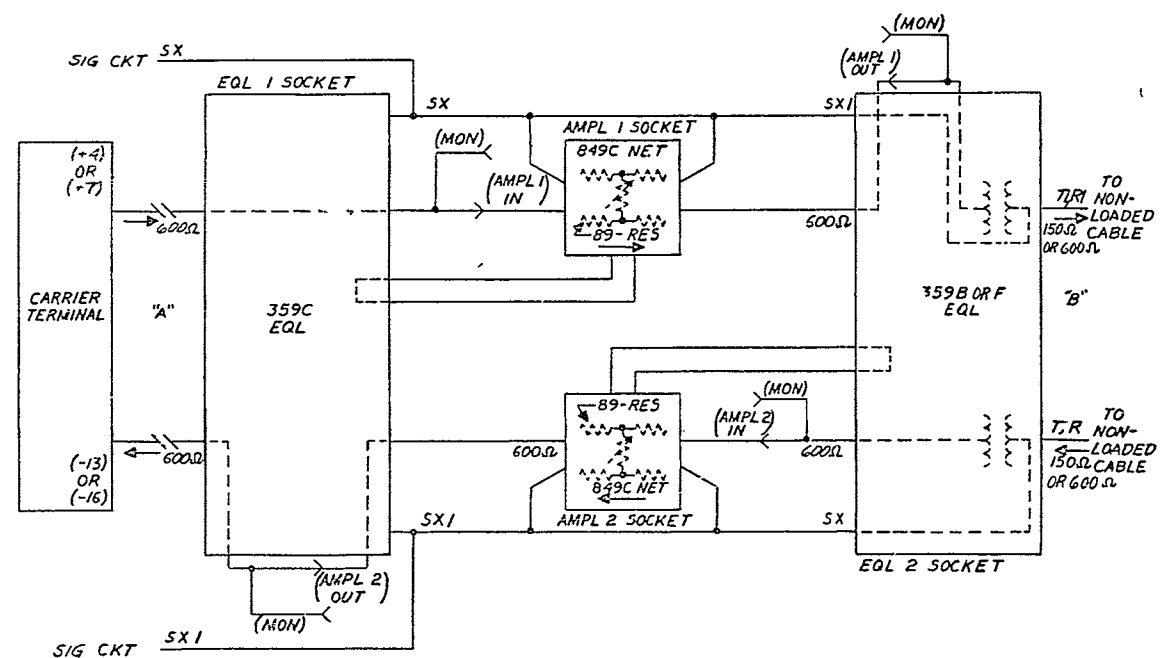


FIG. 123
44V4A REPEATER
FOR EXTENDING NON-LOADED CABLE
CIRCUITS TO 600 OHM CARRIER CIRCUITS
REQUIRING LEVEL CONTROL BUT NO GAIN OR
EQUALIZATION ON "A" AND "B" SIDES
SEE FIG. 11

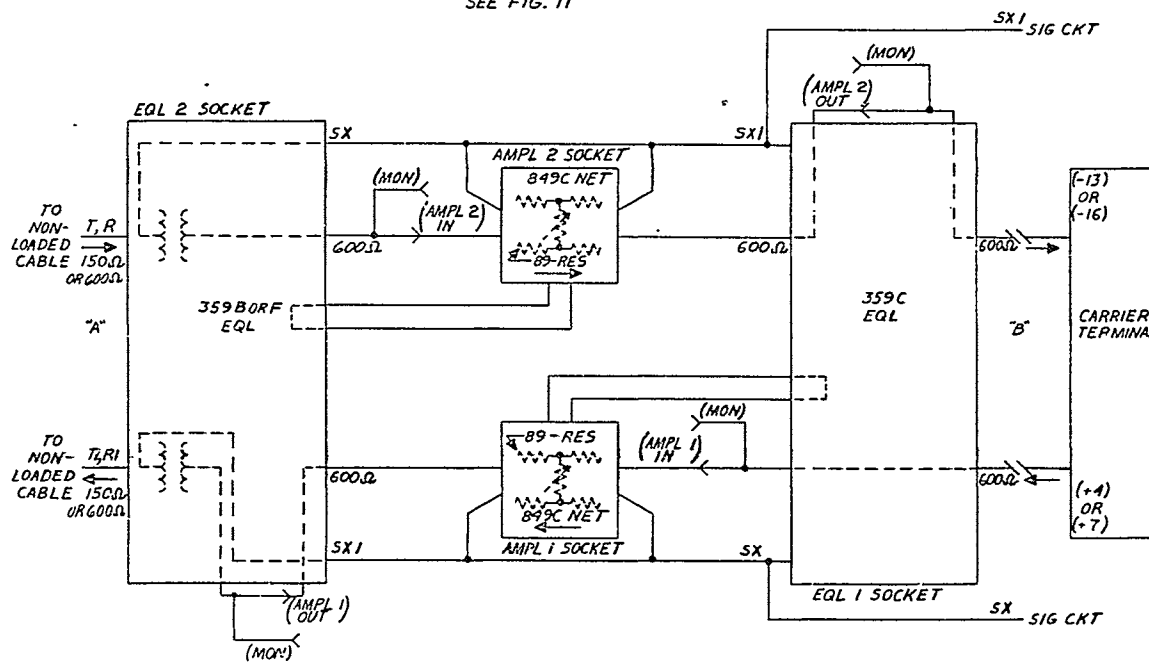


FIG. 124
44V4A REPEATER
ASSOCIATED WITH SF SIGNALING FOR EXTENDING
600 OHM V.F. CIRCUITS REQUIRING GAIN ON "A" SIDE
TO D88 & H88 LOADED CABLE REQUIRING
GAIN AND EQUALIZATION ON "B" SIDE
SEE FIG. 11

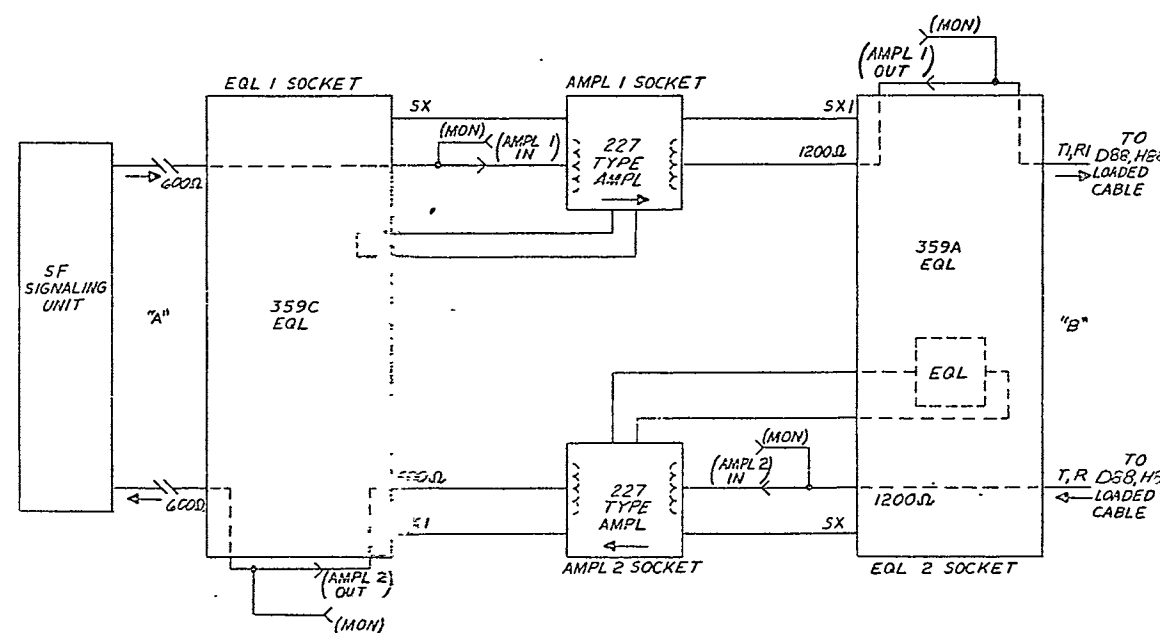


FIG. 125
44V4A REPEATER
ASSOCIATED WITH SF SIGNALING FOR EXTENDING
D88 & H88 LOADED CABLE REQUIRING GAIN AND
EQUALIZATION ON "A" SIDE TO 600 OHM V.F. CIRCUIT
REQUIRING GAIN ON "B" SIDE
SEE FIG. 11

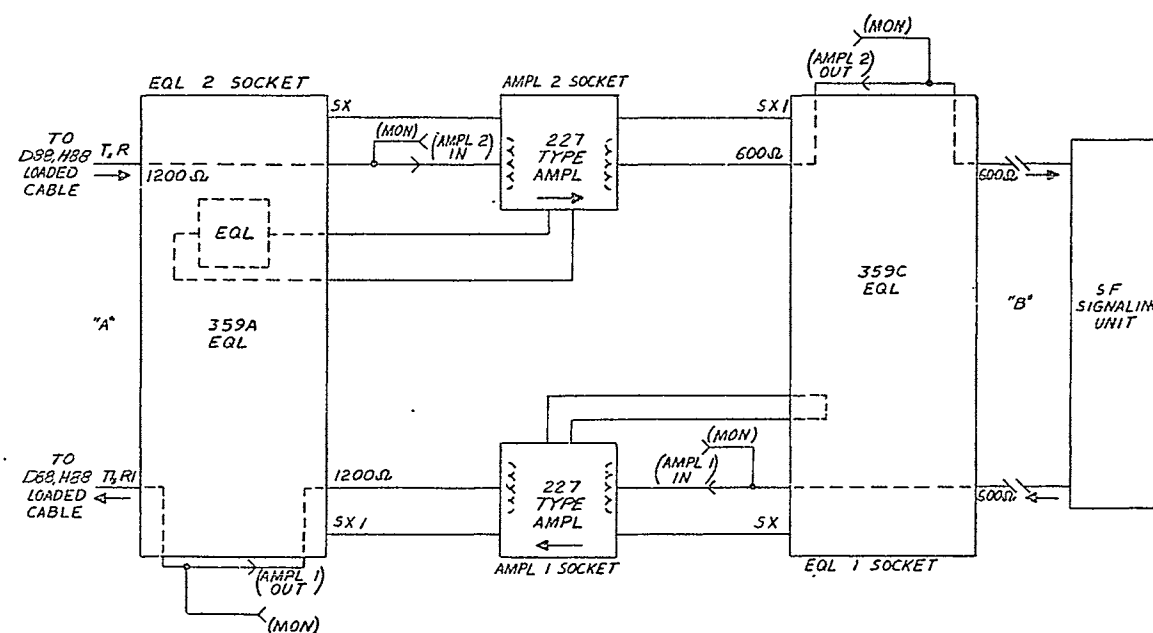


FIG. 126
44V4A REPEATER
ASSOCIATED WITH SF SIGNALING
FOR EXTENDING 600 OHM VF CIRCUITS
REQUIRING GAIN ON "A" SIDE TO NON-LOADED
CIRCUITS REQUIRING GAIN ON "B" SIDE
SEE FIG. 11

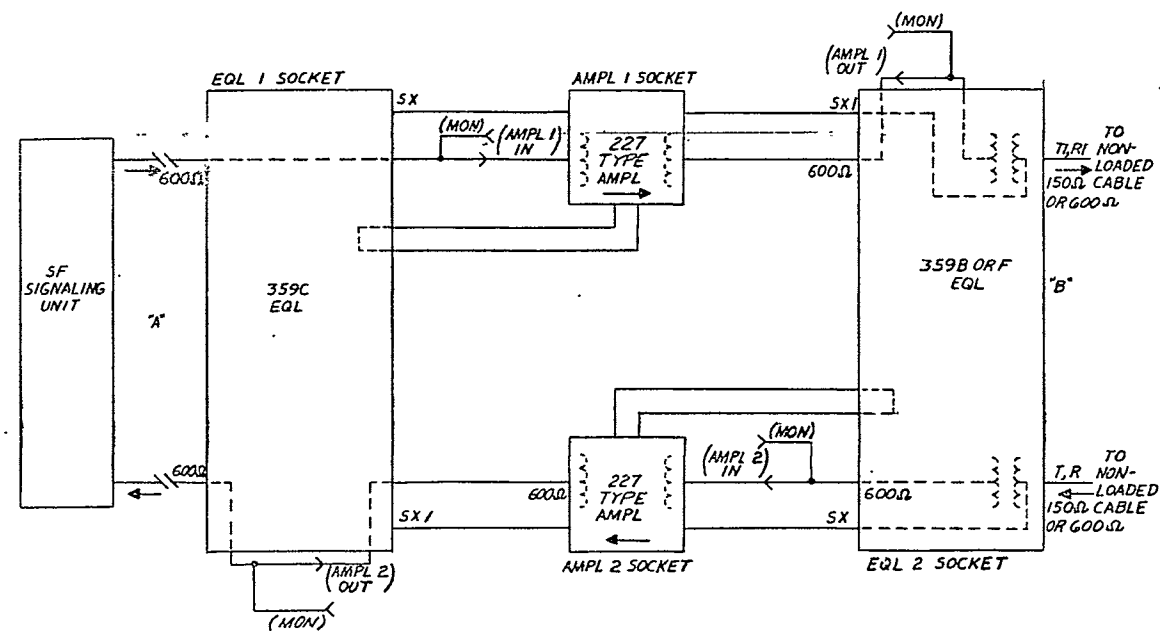


FIG. 127
44V4A REPEATER
ASSOCIATED WITH SF SIGNALING
FOR EXTENDING NON-LOADED CIRCUITS
REQUIRING GAIN ON SIDE "A" TO 600 OHM
VF CIRCUITS REQUIRING GAIN ON "B" SIDE
SEE FIG. 11

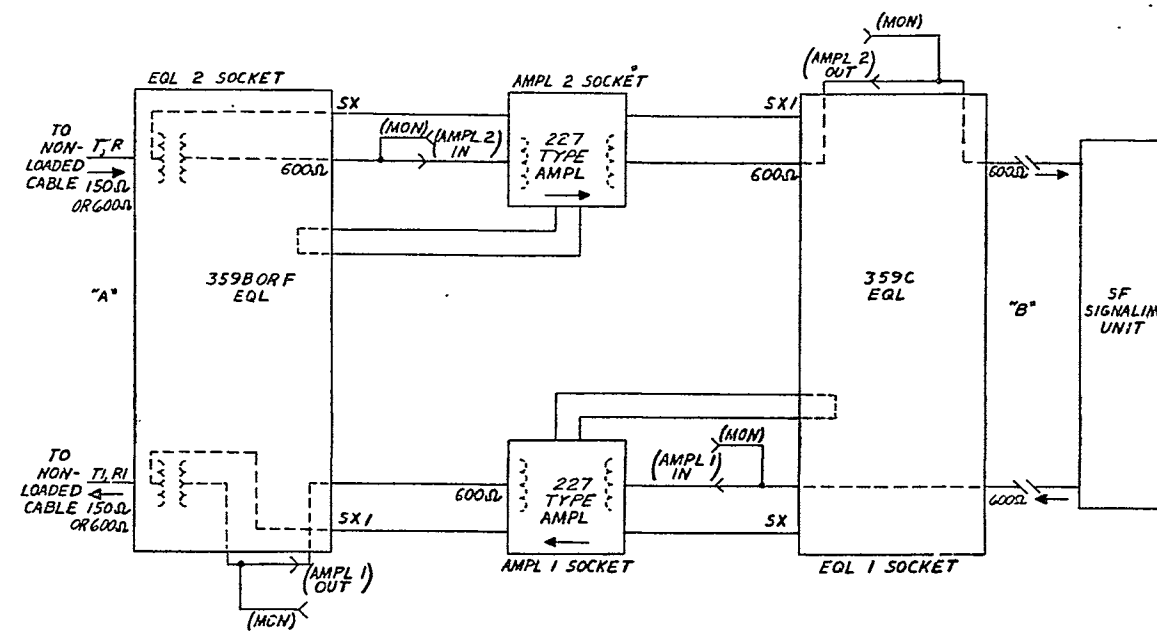


FIG. 128
44V4B REPEATER
ASSOCIATED WITH DATA TRUNK
SEE FIG. 19

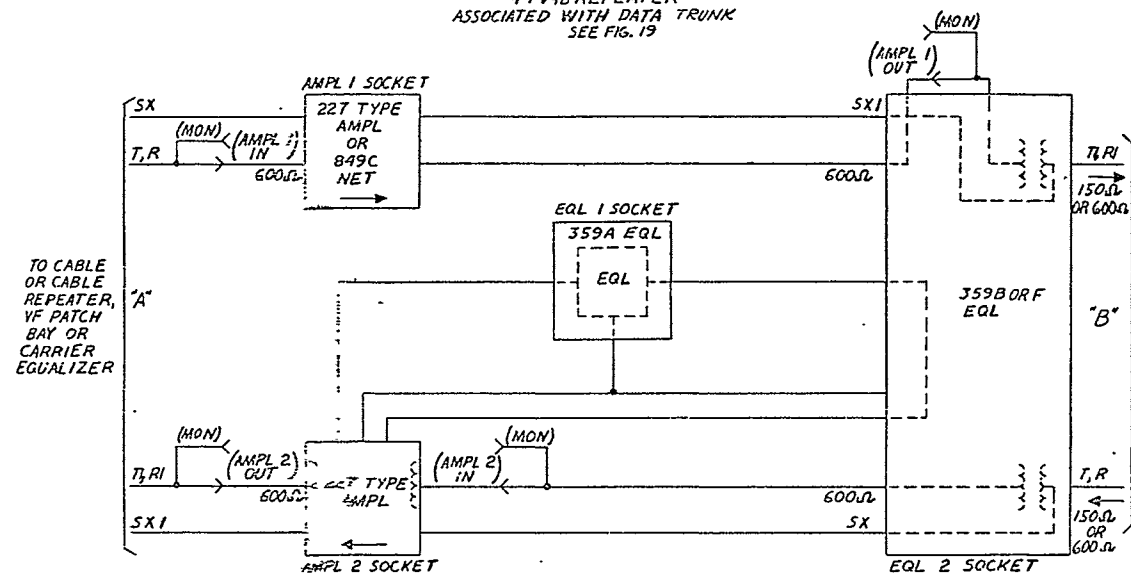


FIG. 129
44V4B REPEATER
ASSOCIATED WITH DATA TRUNK
SEE FIG. 19

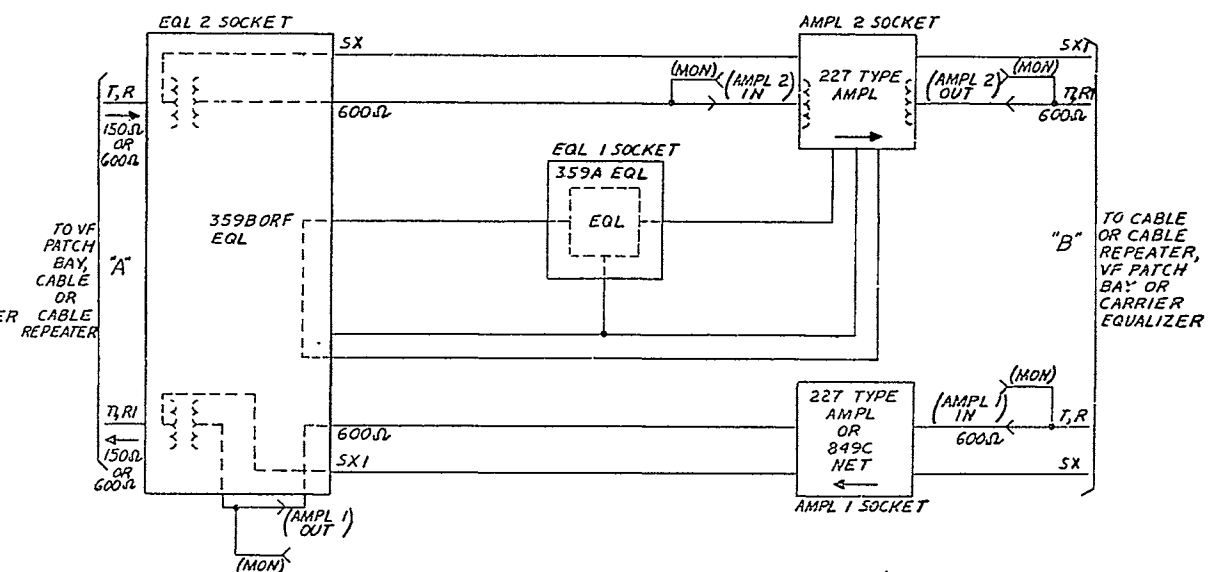


FIG. 130
44V4B REPEATER
ASSOCIATED WITH DATA TRUNK
SEE FIG. 19

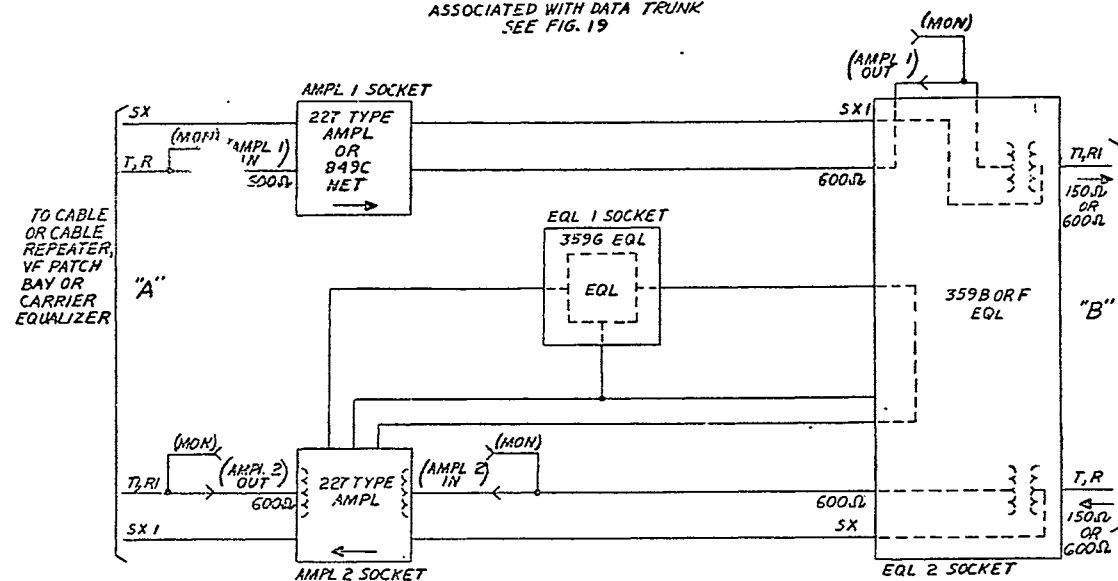


FIG. 131
44V4B REPEATER
ASSOCIATED WITH DATA TRUNK
SEE FIG. 19

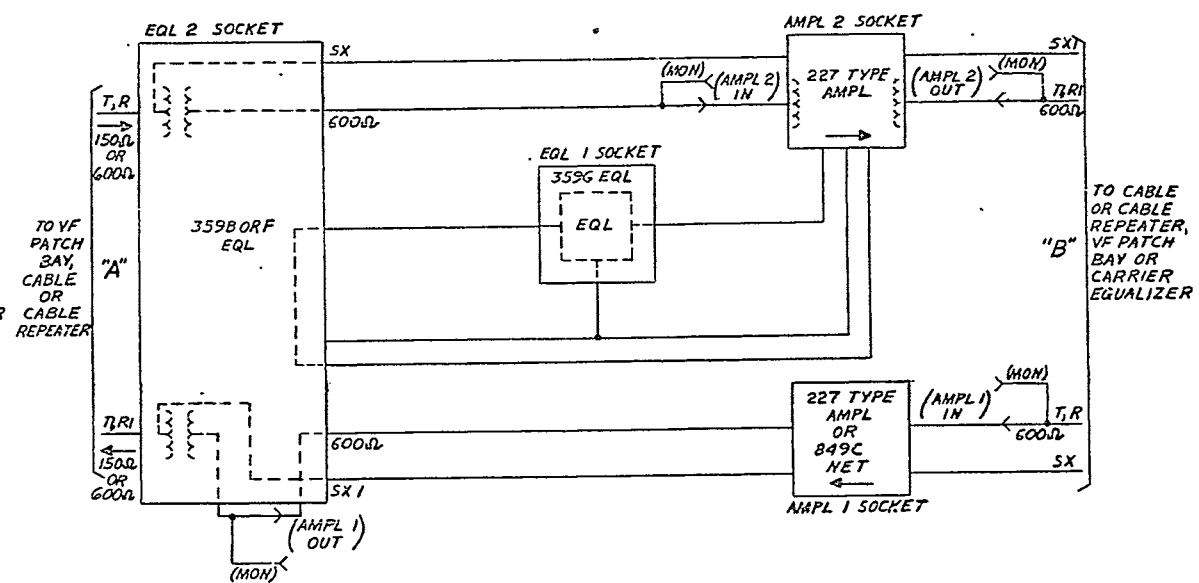


FIG. 132
44V4B REPEATER
ASSOCIATED WITH DATA TRUNK
SEE FIG. 19

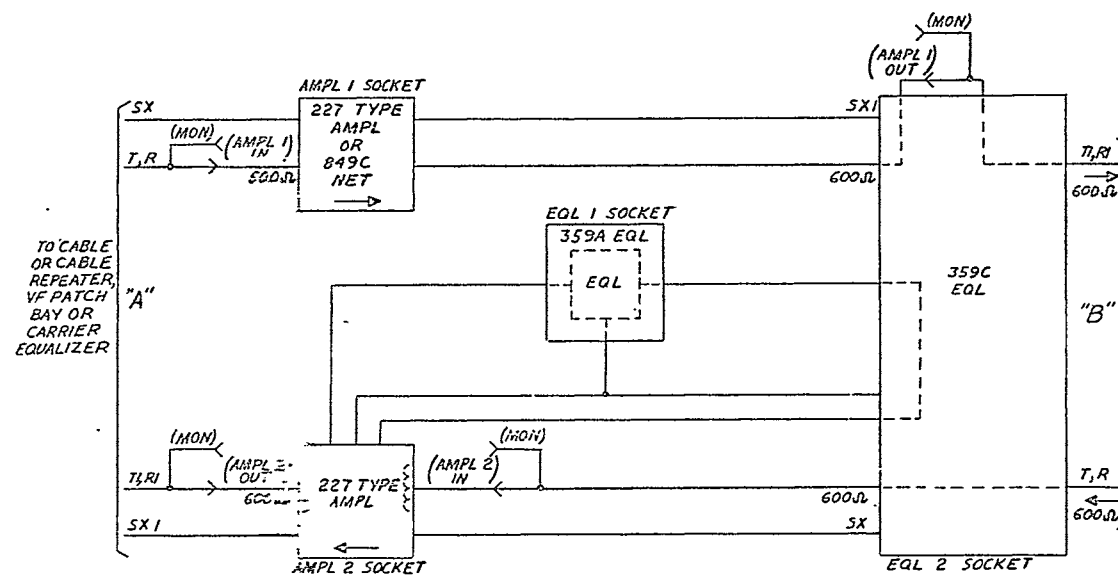


FIG. 133
44V4B REPEATER
ASSOCIATED WITH DATA TRUNK
SEE FIG. 19

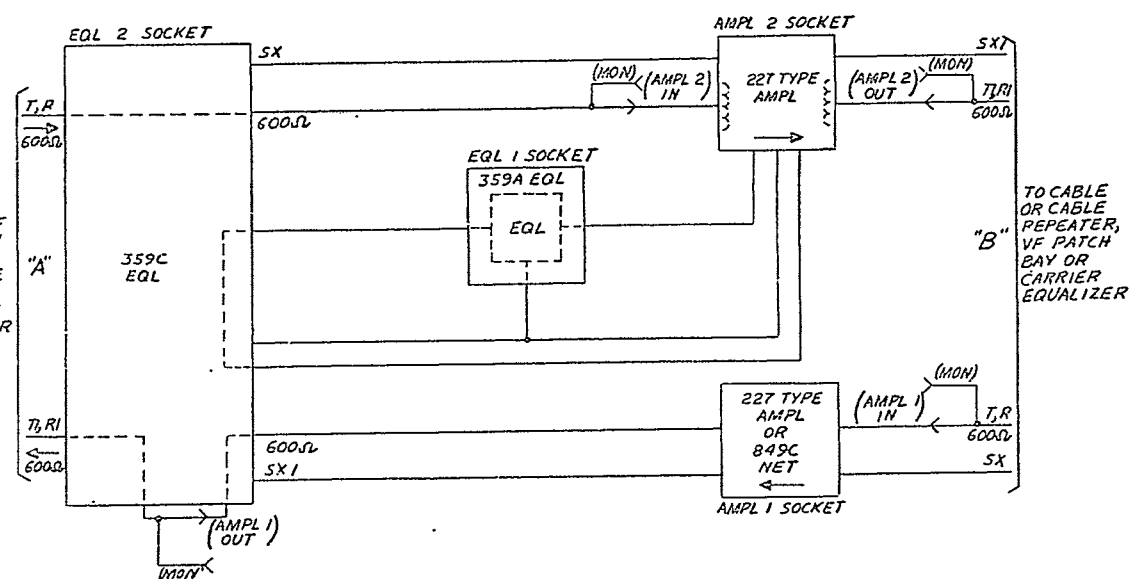


FIG. 134
44V4B REPEATER
ASSOCIATED WITH DATA TRUNK
SEE FIG. 19

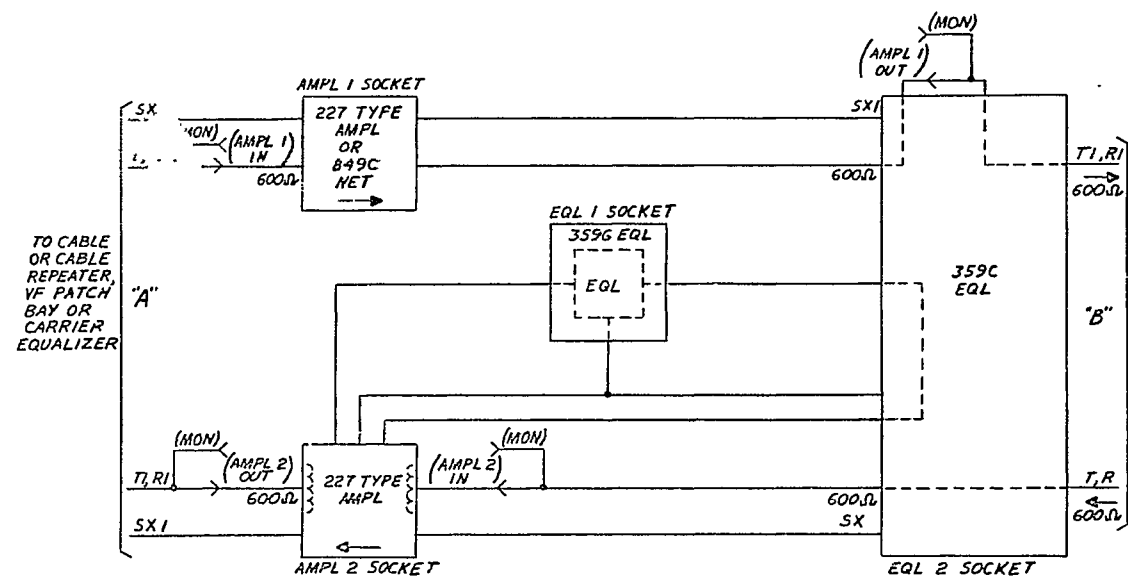


FIG. 135
44V4B REPEATER
ASSOCIATED WITH DATA TRUNK
SEE FIG. 19

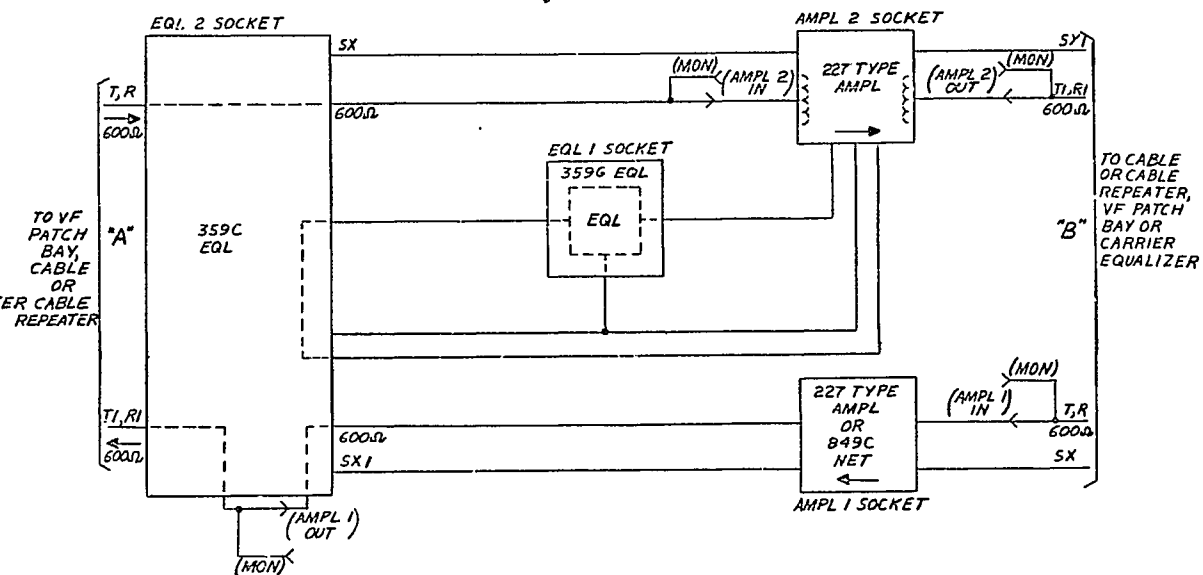


FIG. 136
44V4B REPEATER
ASSOCIATED WITH DATA TRUNK
SEE FIG. 19

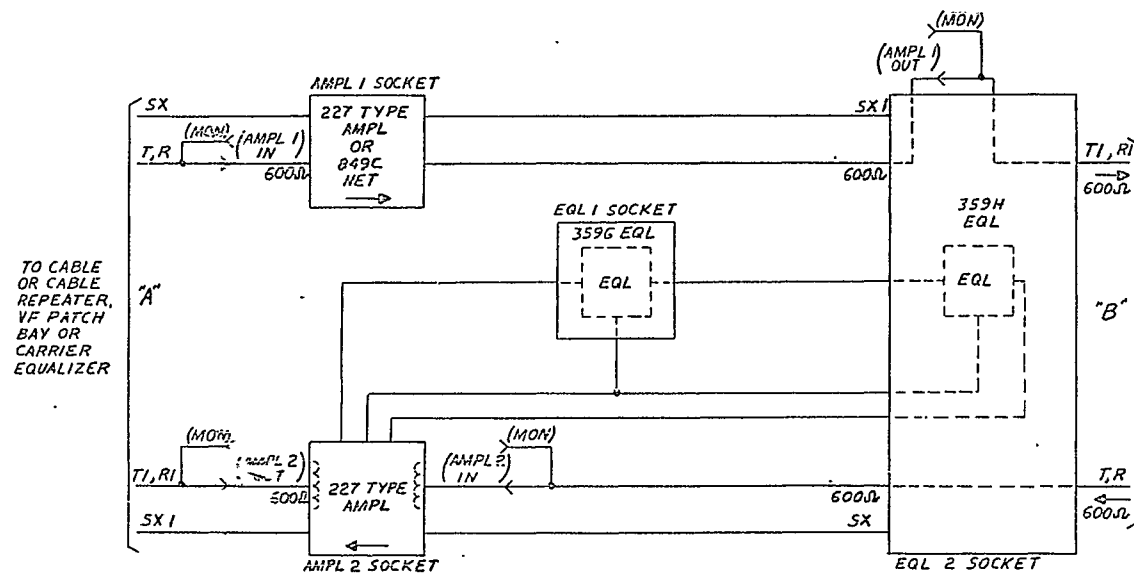


FIG. 137
44V4B REPEATER
ASSOCIATED WITH DATA TRUNK
SEE FIG. 19

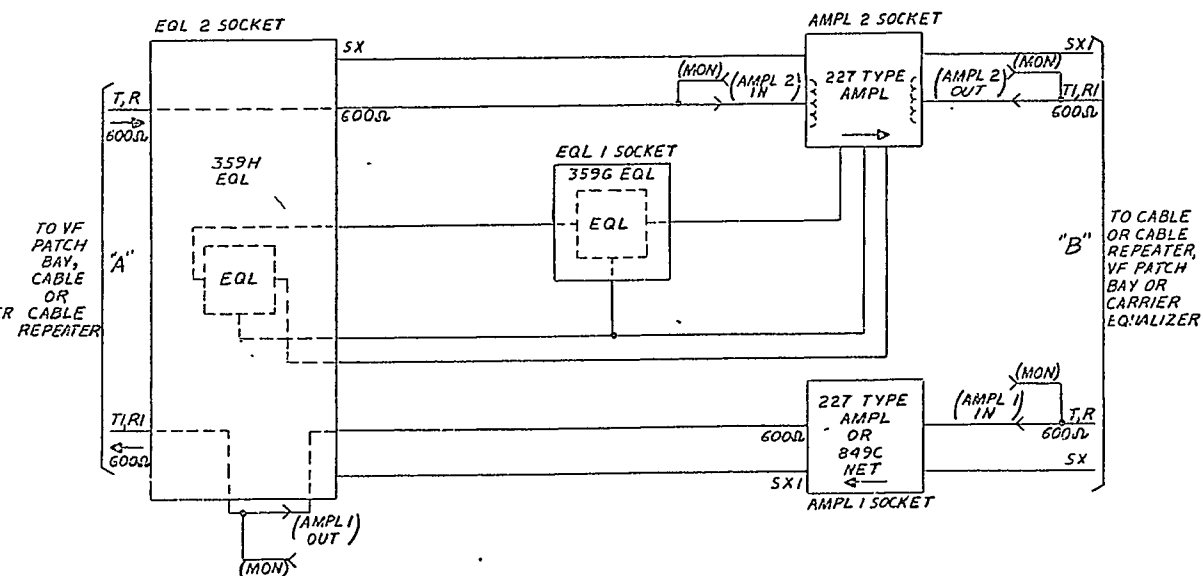


FIG 138
44V4B REPEATER
ASSOCIATED WITH DATA TRUNK
SEE FIG. 19

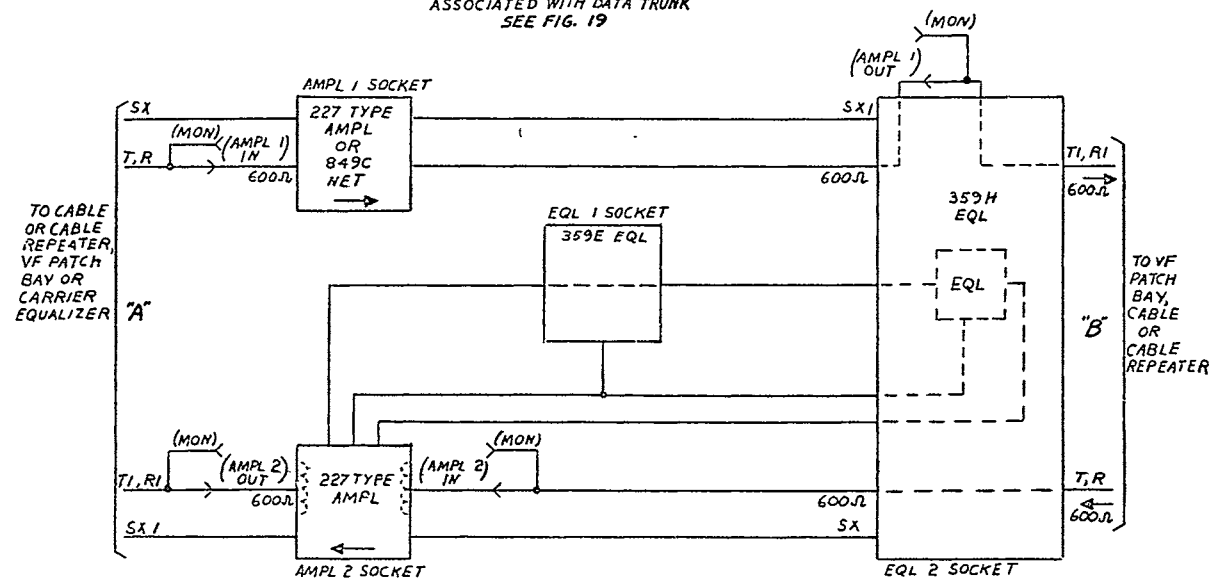


FIG 139
44V4B REPEATER
ASSOCIATED WITH DATA TRUNK
SEE FIG. 19

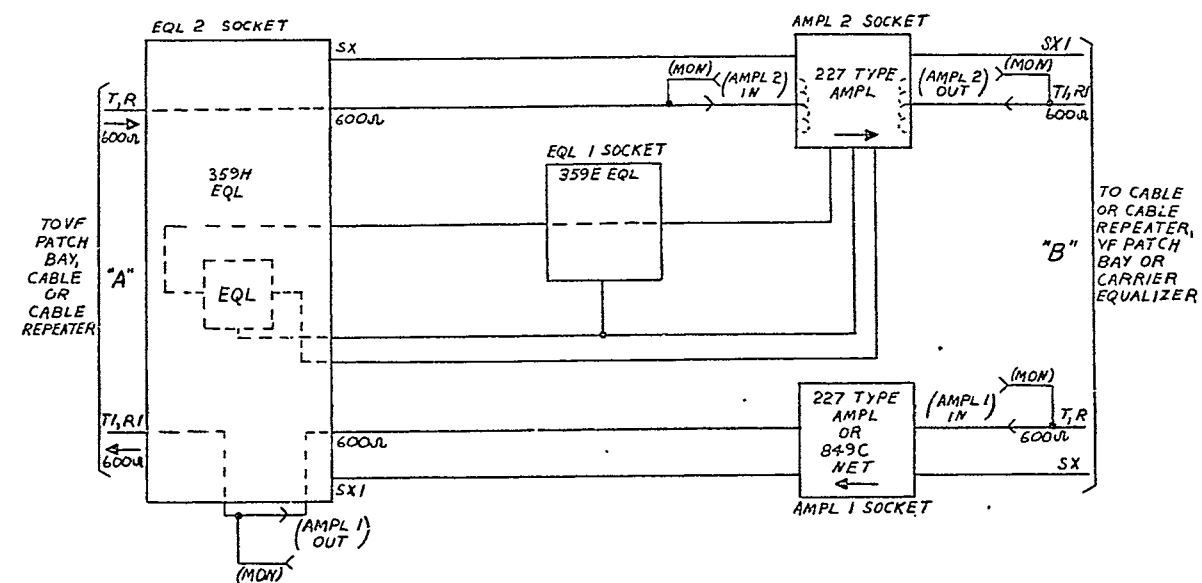


FIG 140
44V4B REPEATER
ASSOCIATED WITH DATA TRUNK
SEE FIG. 19

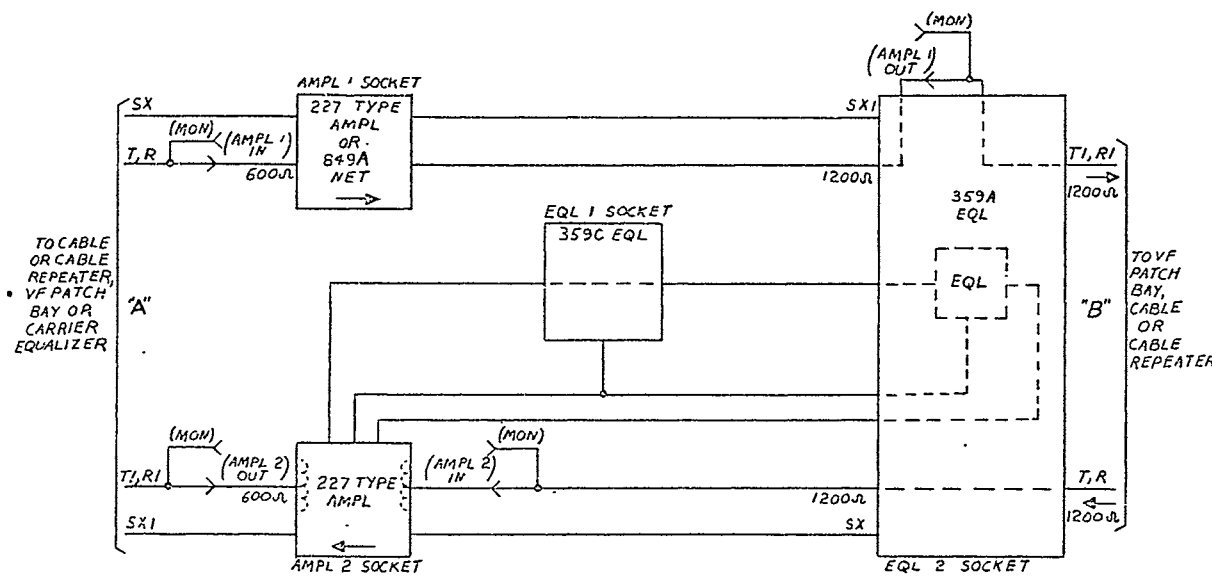
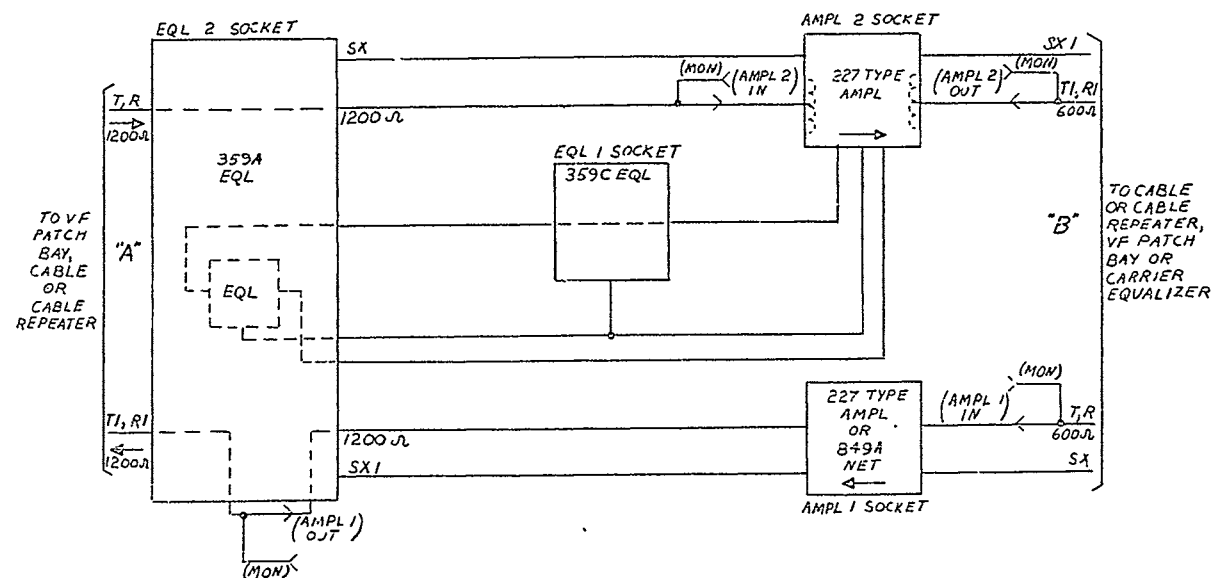


FIG 141
44V4B REPEATER
ASSOCIATED WITH DATA TRUNK
SEE FIG. 19



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FIG. 142
44V4B REPEATER
ASSOCIATED WITH DATA TRUNK
SEE FIG. 19

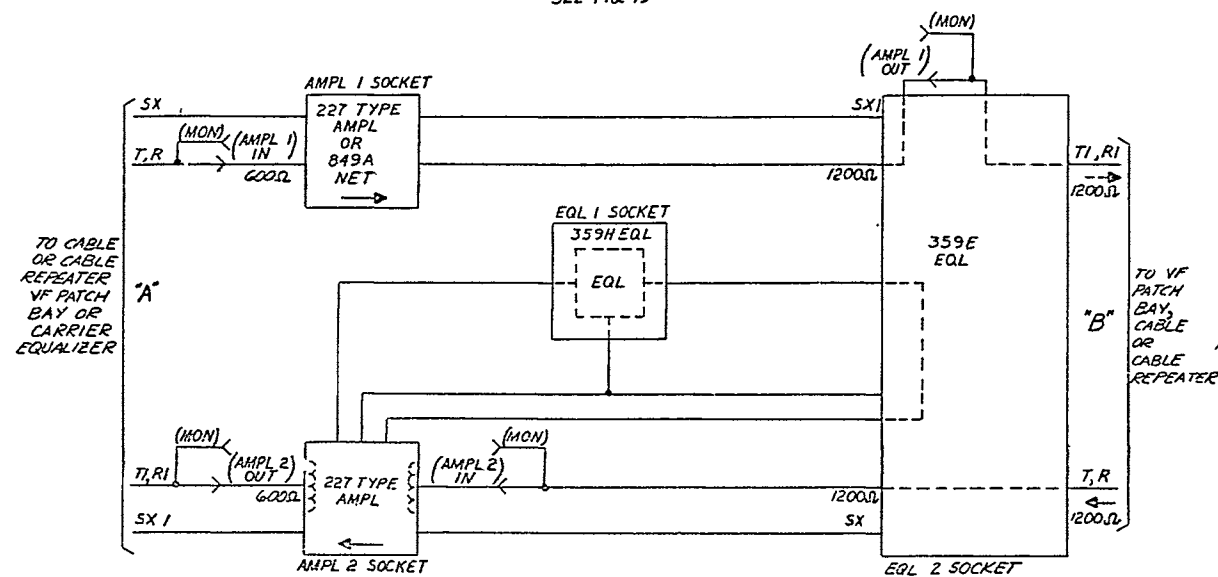


FIG. 143
44V4B REPEATER
ASSOCIATED WITH DATA TRUNK
SEE FIG. 19

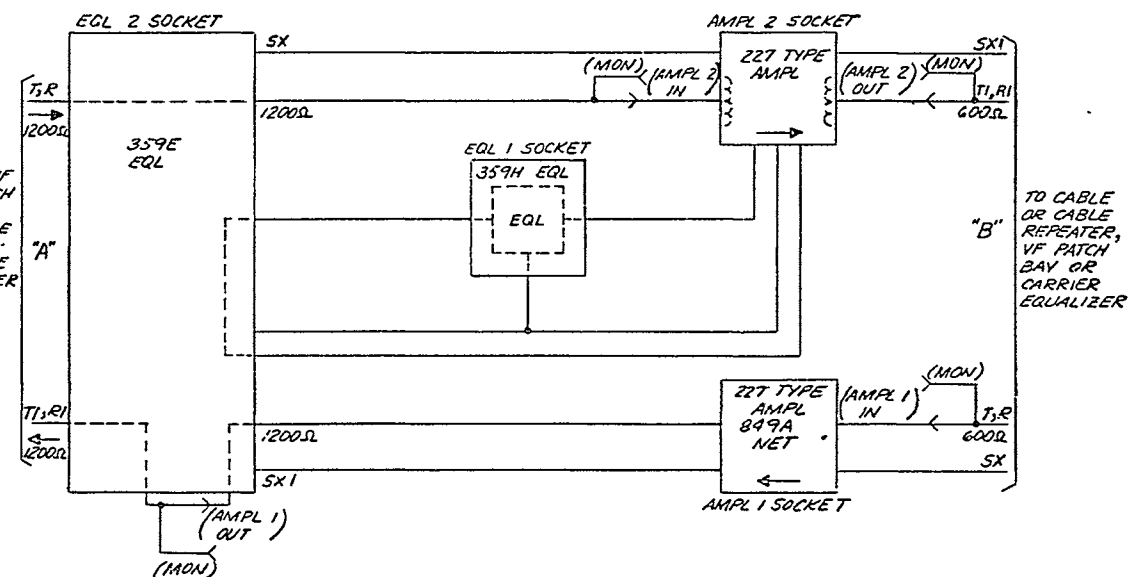


FIG. 144
44V4B REPEATER
ASSOCIATED WITH DATA TRUNK
SEE FIG. 19

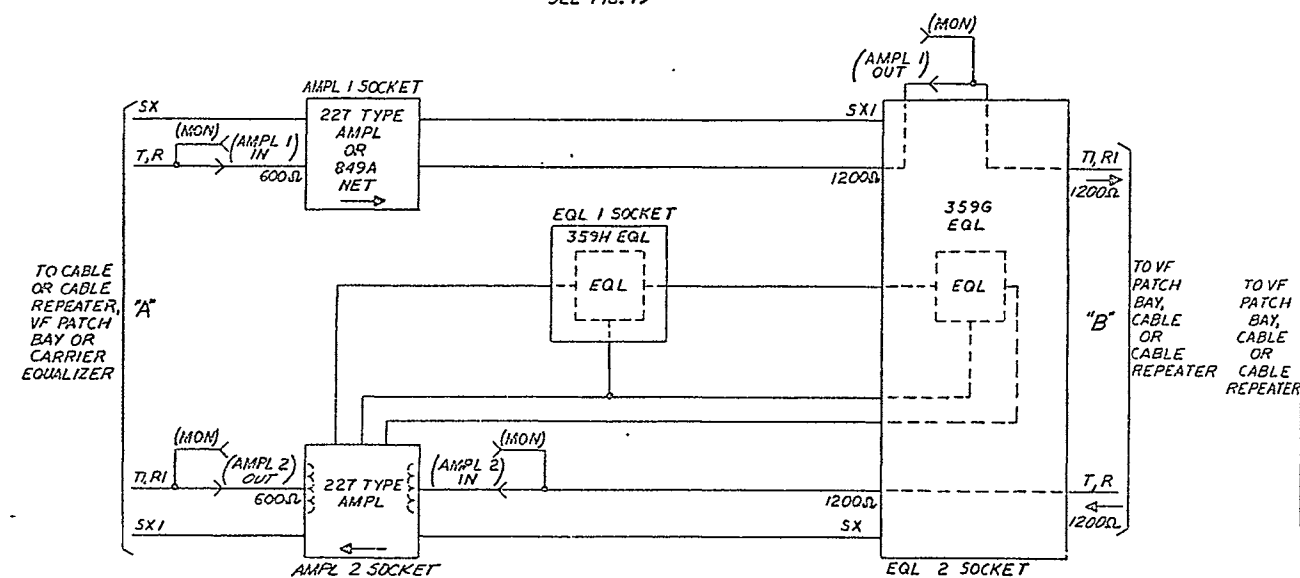


FIG. 145
44V4B REPEATER
ASSOCIATED WITH DATA TRUNK
SEE FIG. 19

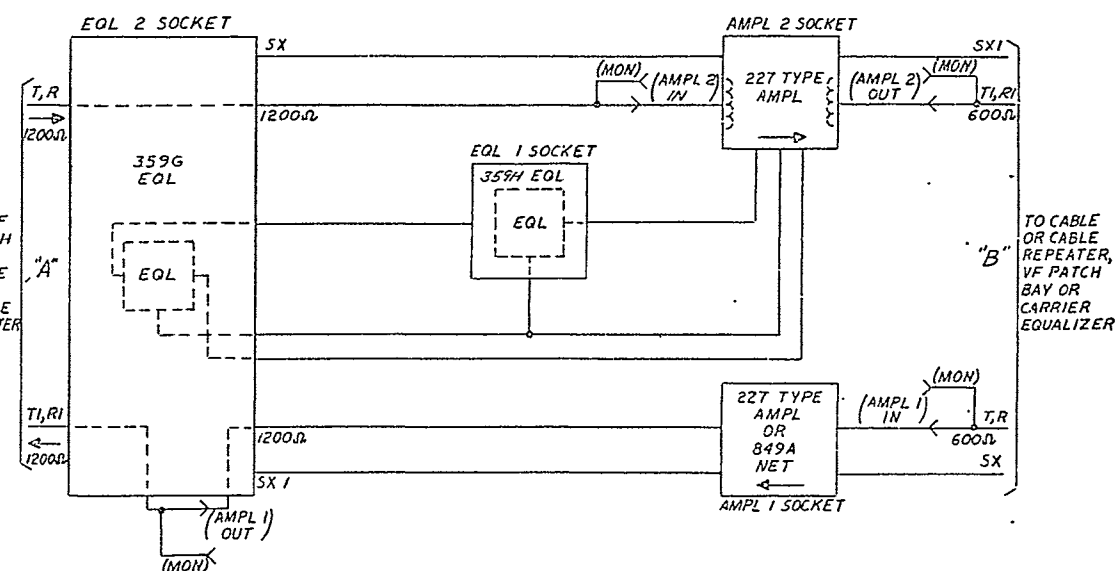


FIG. 146
44V4B REPEATER
ASSOCIATED WITH DATA TRUNK
SEE FIG. 19

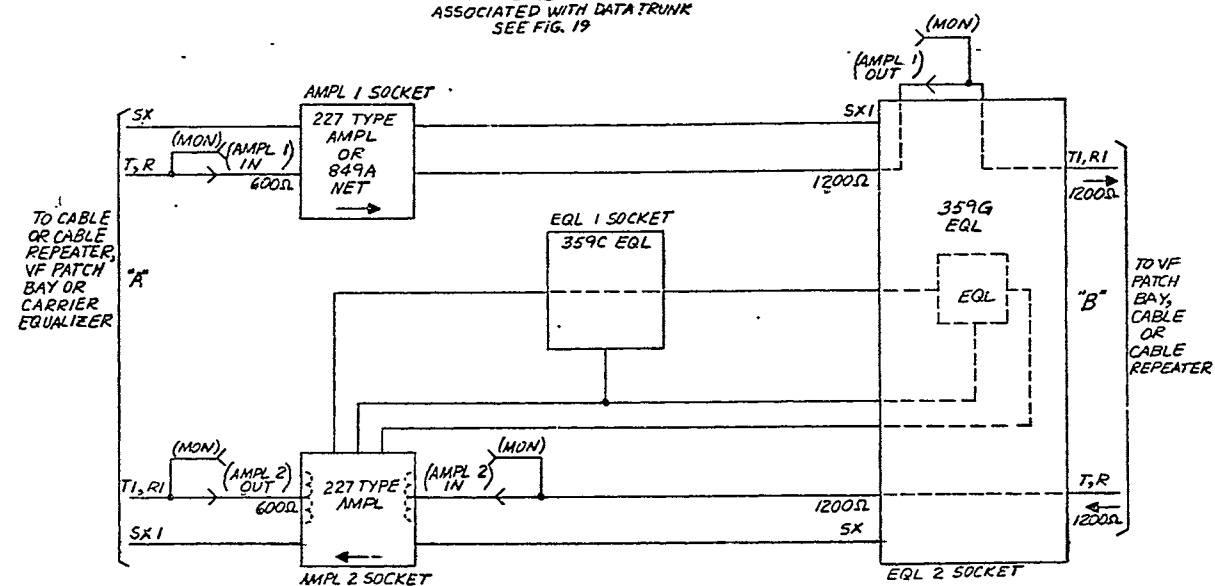


FIG. 147
44V4B REPEATER
ASSOCIATED WITH DATA TRUNK
SEE FIG. 19

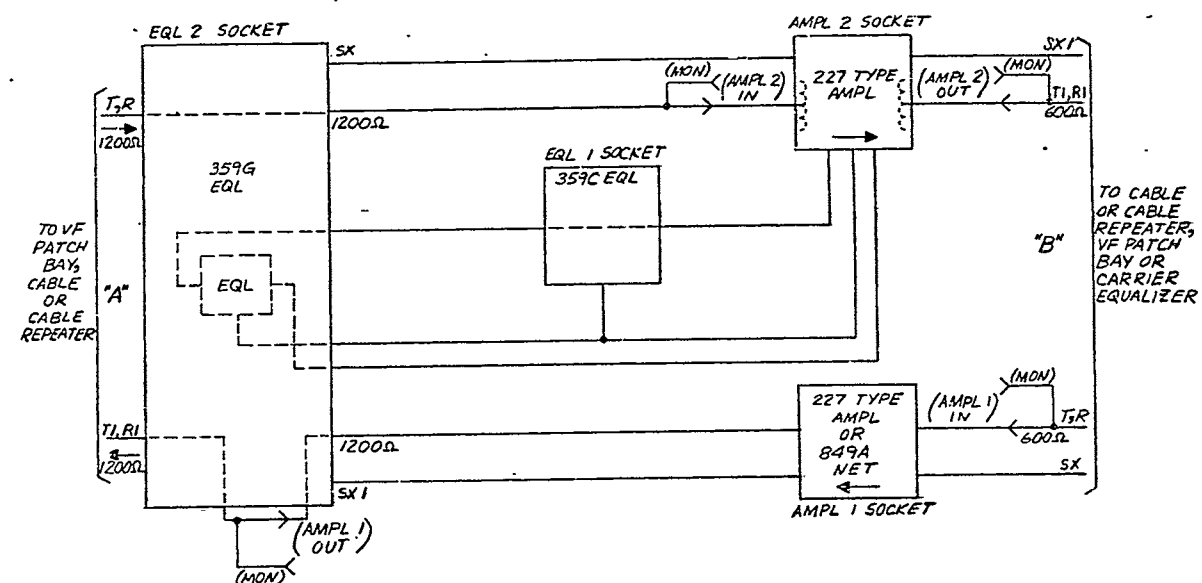


FIG. 148
44V4B REPEATER
ASSOCIATED WITH DATA TRUNK
SEE FIG. 19

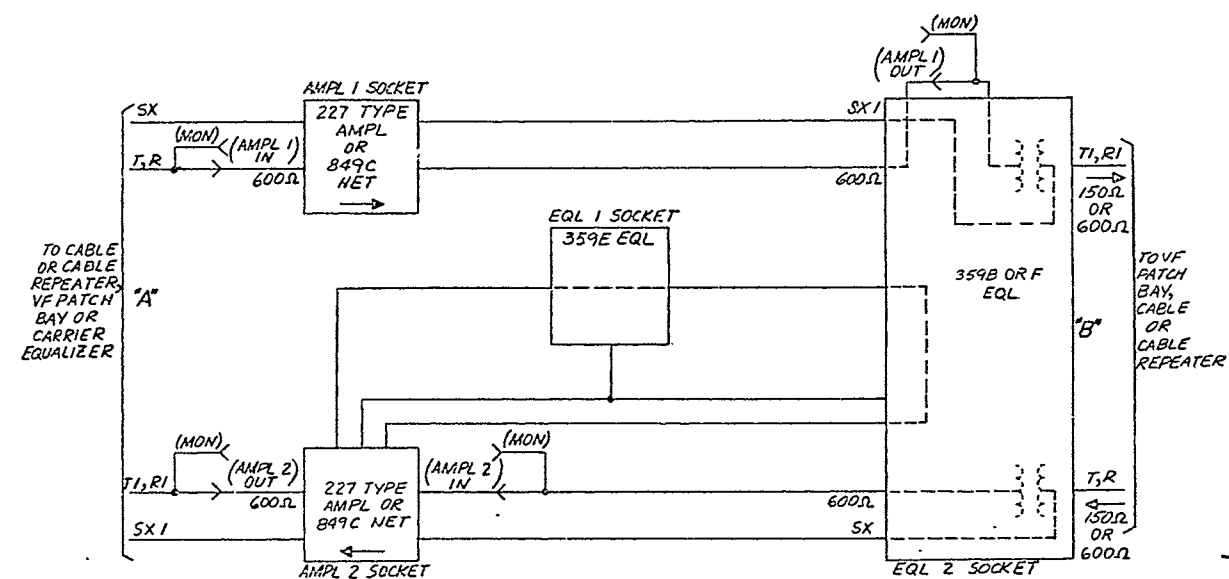


FIG. 149
44V4B REPEATER
ASSOCIATED WITH DATA TRUNK
SEE FIG. 19

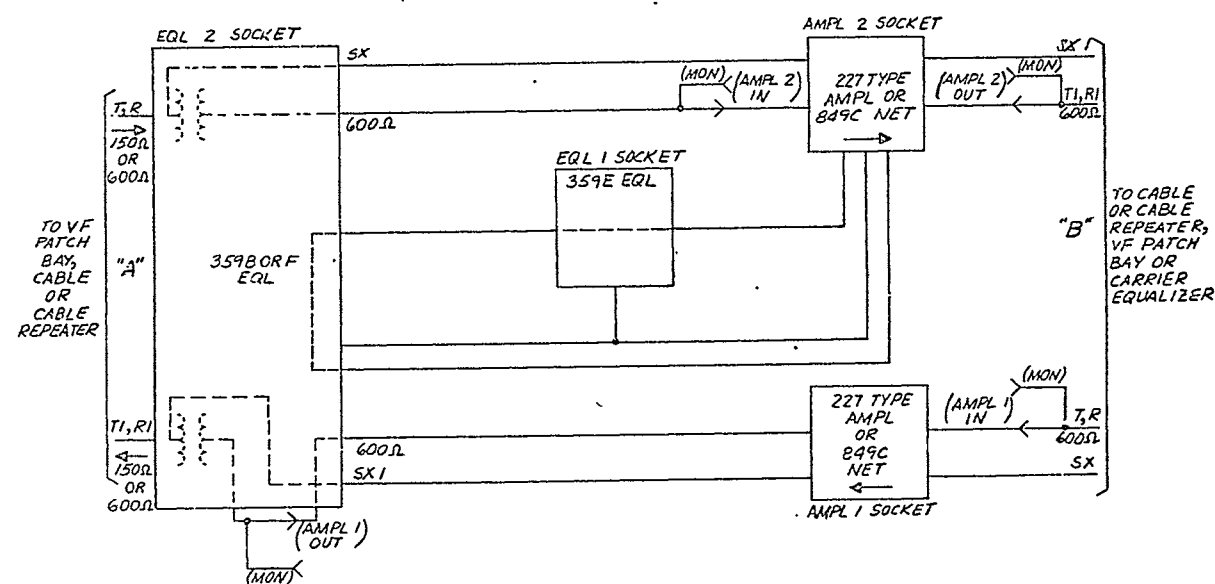


FIG. 150
849 TYPE NETWORKS FOR CONNECTING
CARRIER SYSTEMS TO LOADED OR NON-
LOADED CABLE PAIRS

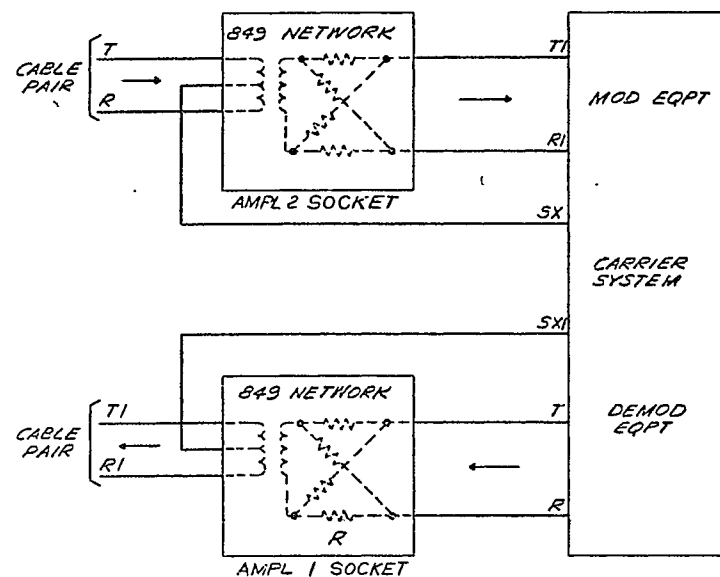
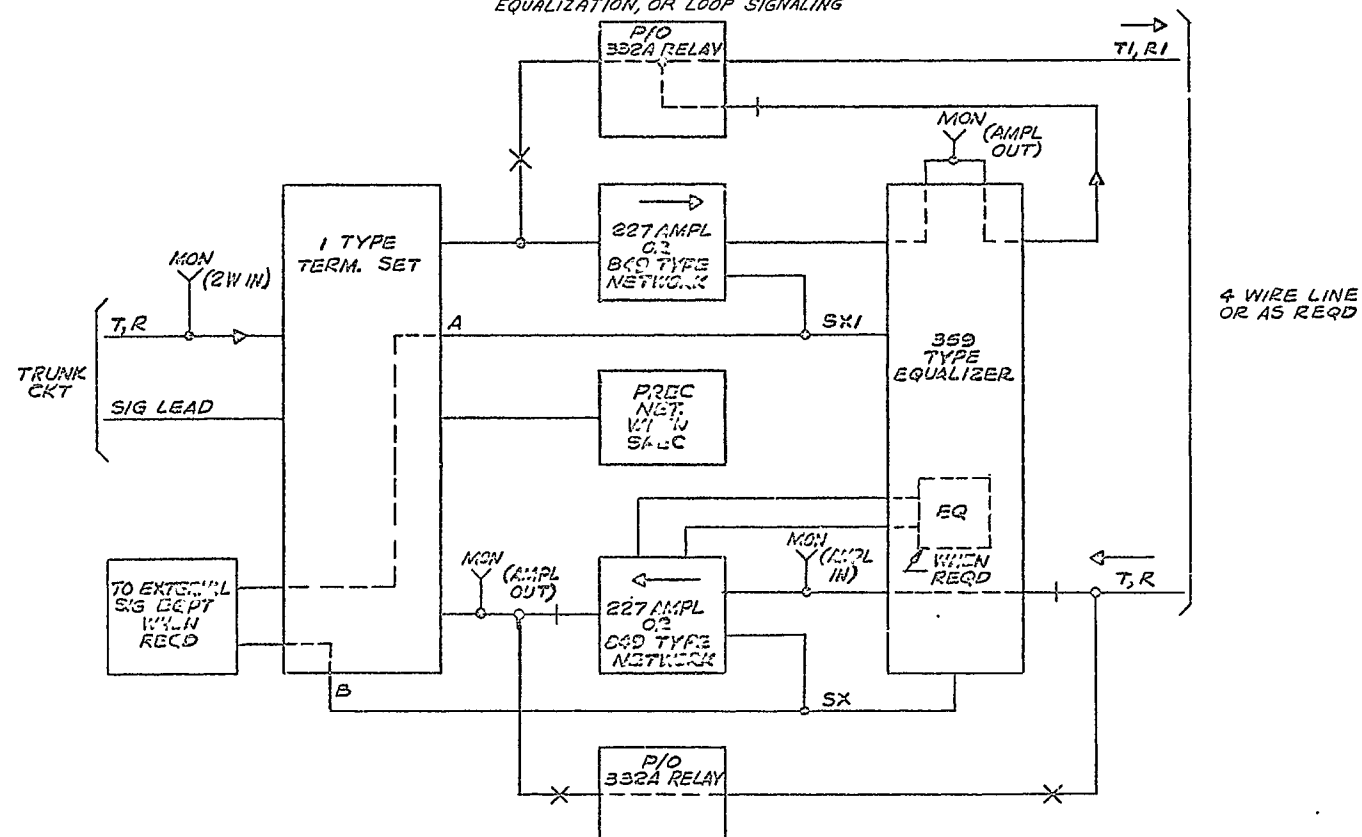
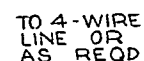


FIG. 151
24V4D REPEATER POWER FAILURE
LOOP-AROUND REQUIRING GAIN,
EQUALIZATION, OR LOOP SIGNALING



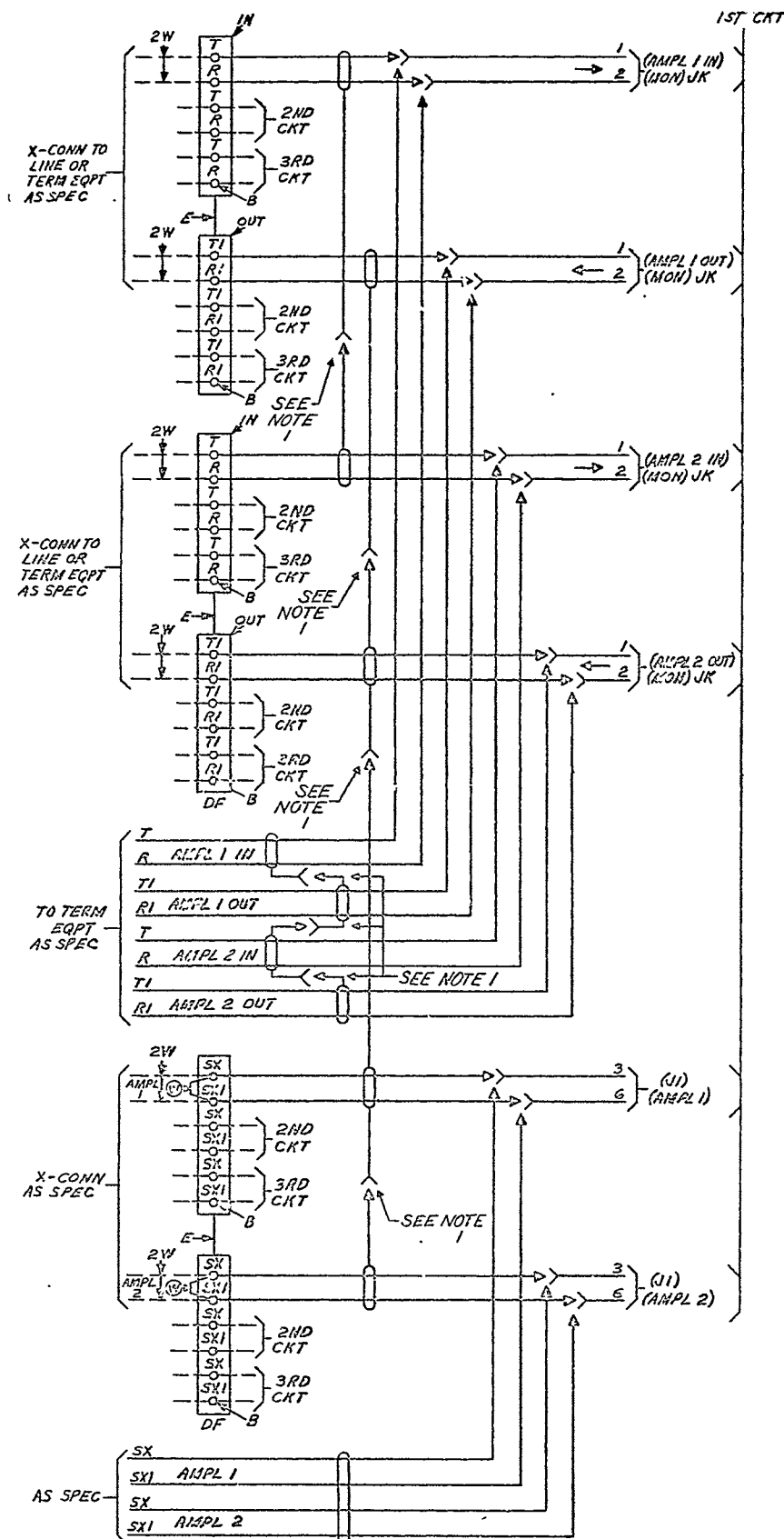
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8 3

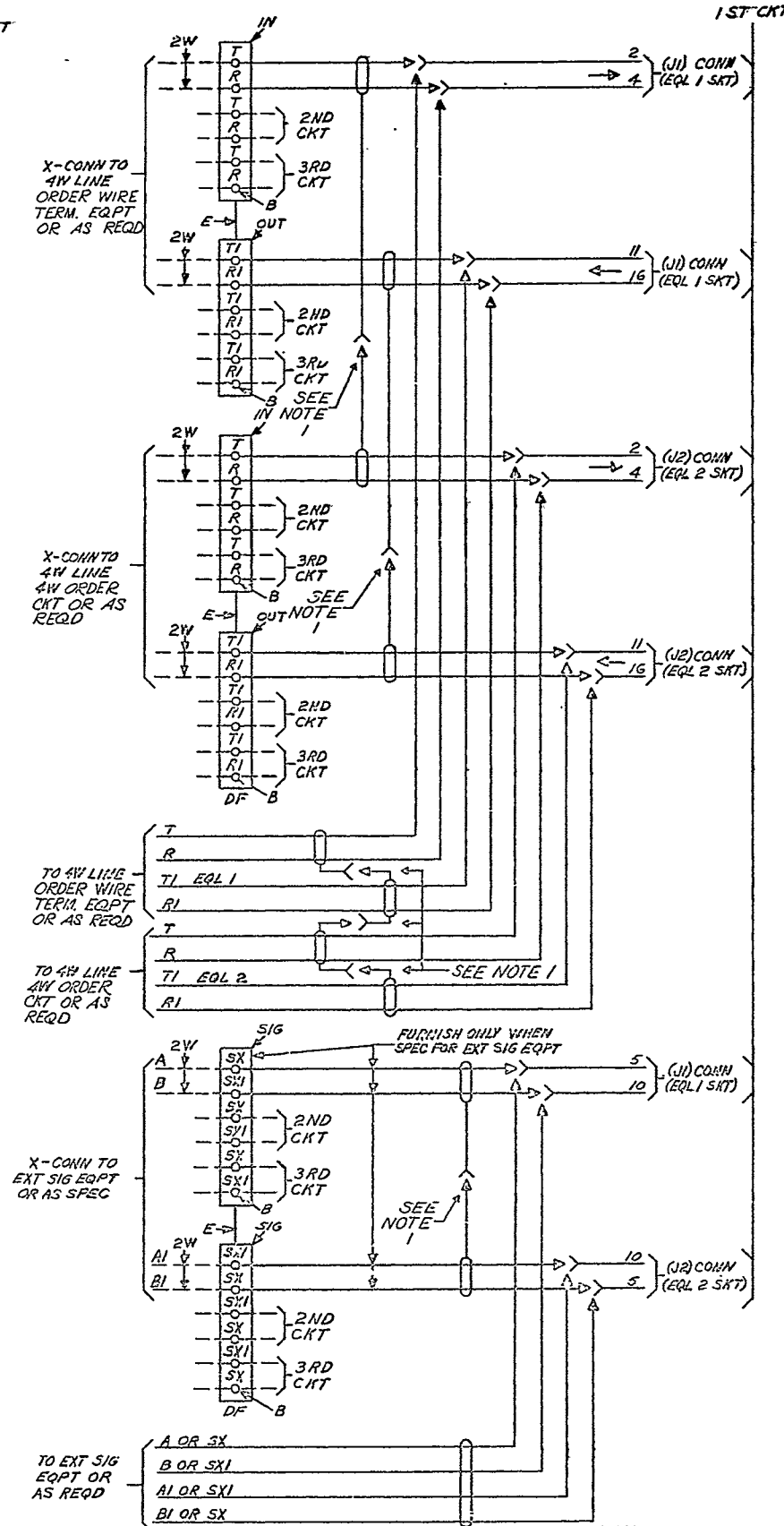


TO 4-WIRE
LINE OF
AS REQD

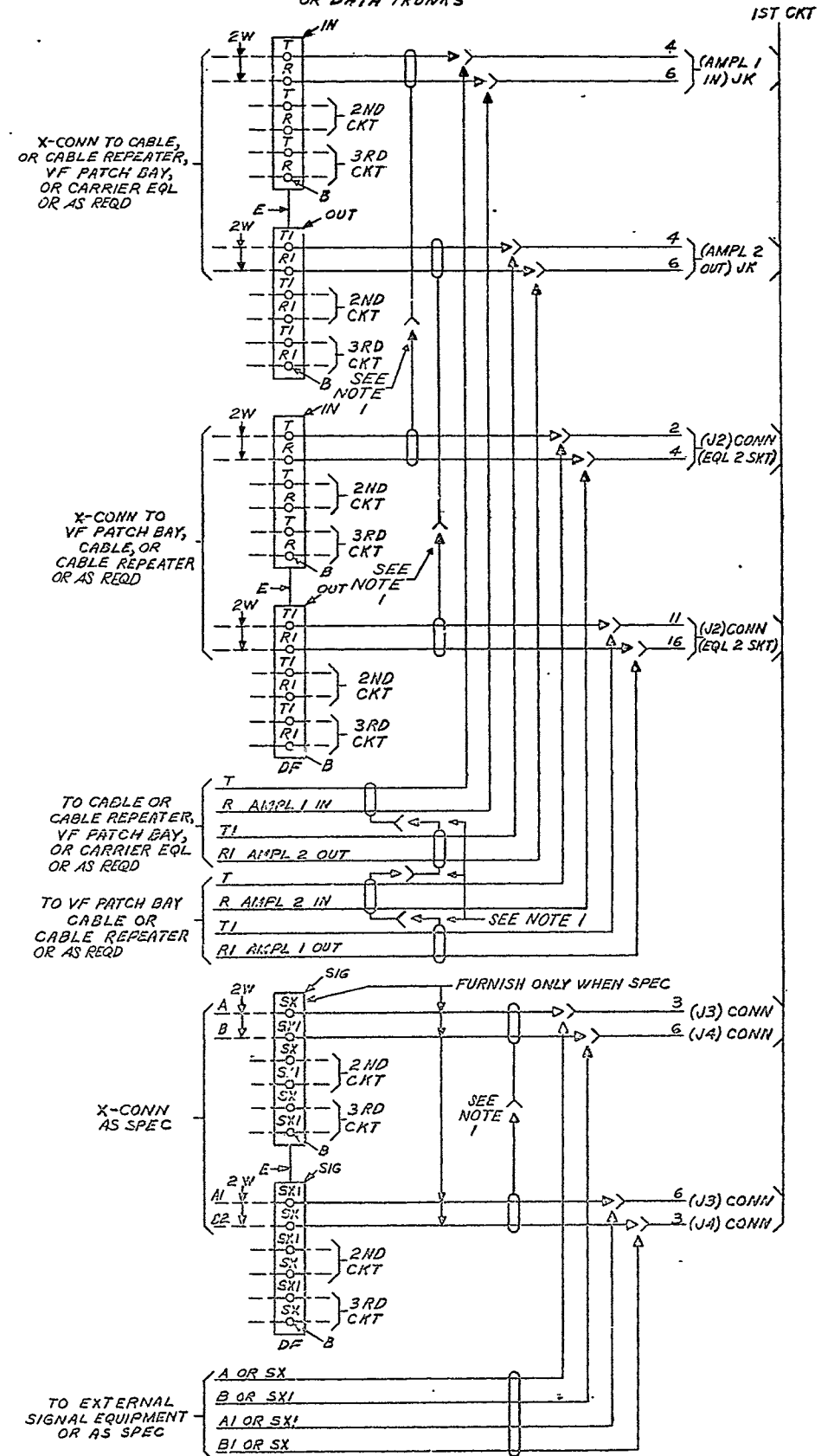
CAD 15
(FOR FIG. 1)
BASIC V4 REPEATER



CAD 16
(FOR FIG. 1)
44V4A REPEATER



CAD 17
(FOR FIG. 19)
44V4B REPEATER FOR SPECIAL SERVICE
OR DATA TRUNKS



NOTES:

1. ALWAYS PROVIDE SEPARATE CABLING EXCEPT WHEN SPECIFICALLY SPECIFIED OTHERWISE BY CUSTOMER OR CONNECTING DRAWING.

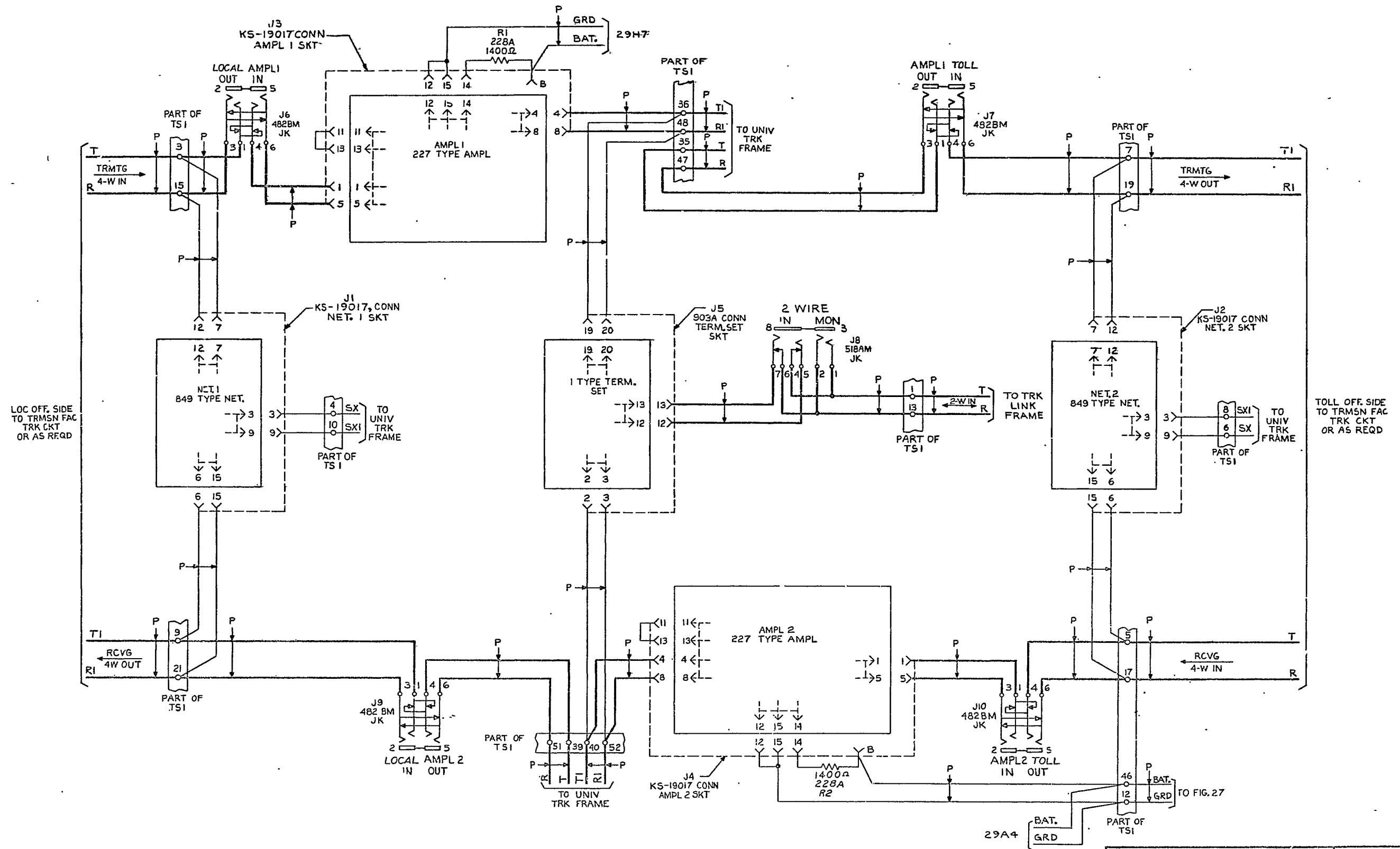
V4 TELEPHONE REPEATER
BATTERY SUPPLY AND
CONNECTING CIRCUITS

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FIG. 26
424V4A REPEATER

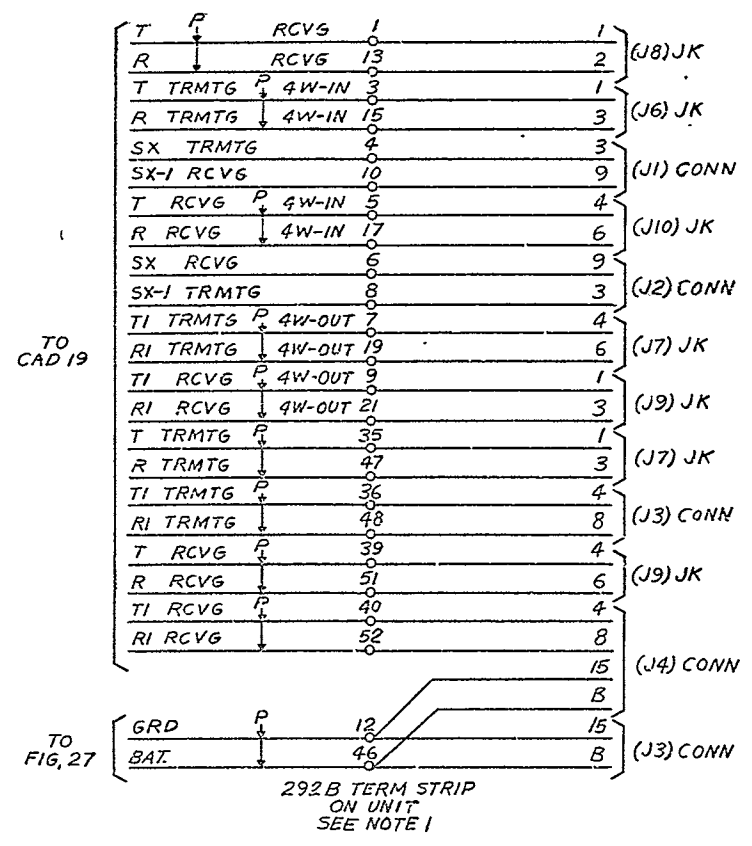


DRAWING
ISSUE
11D
12D
14D

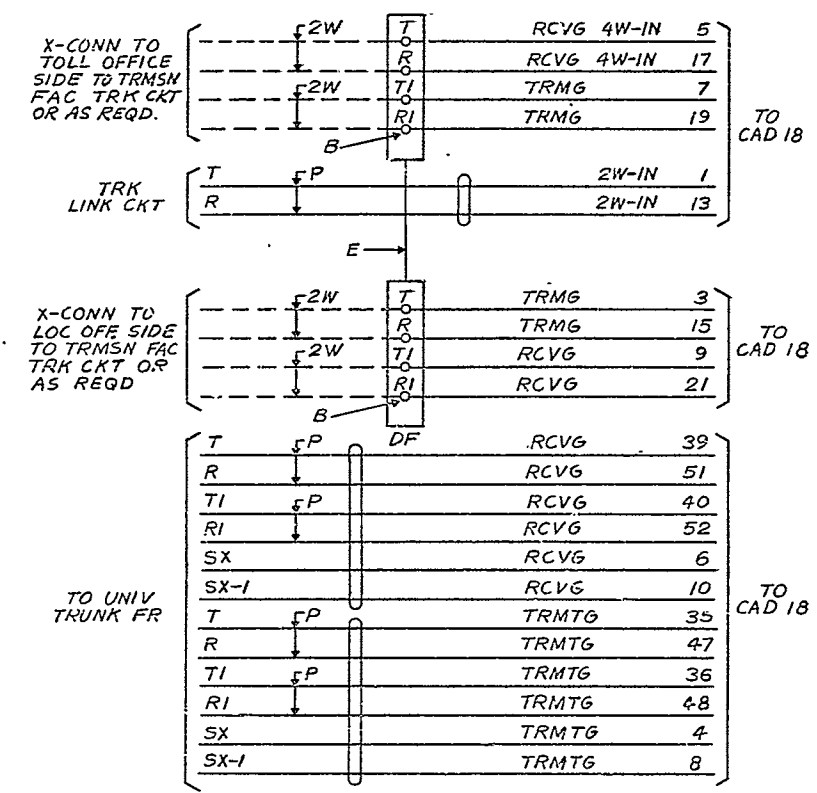
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BATTERY SUPPLY AND
CONNECTING CIRCUITS
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INCORPORATED
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6S
PRINTED IN U.S.A.

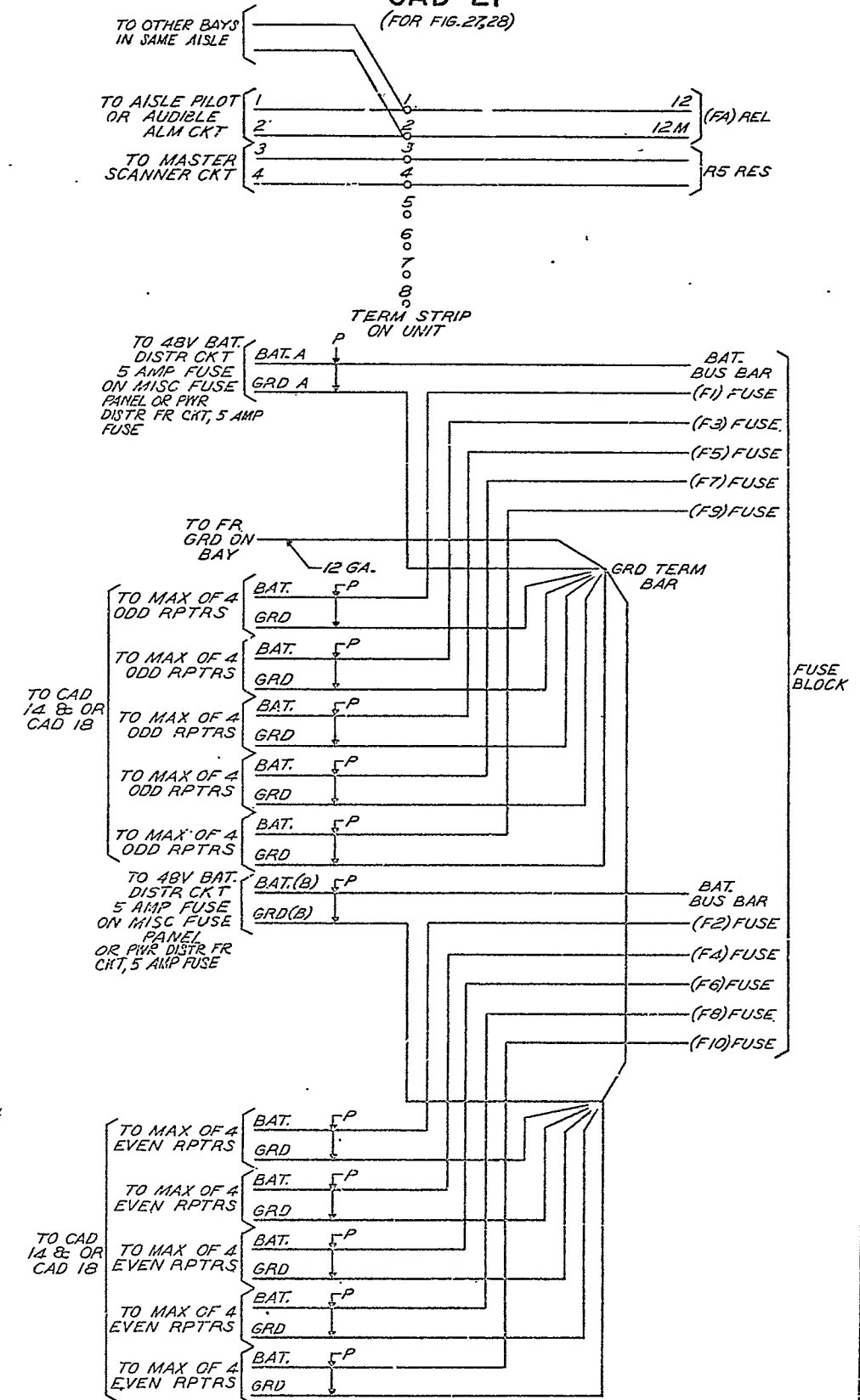
CAD 18
(FOR FIG. 26)
(TSPS NO. 1)
424V4A REPEATER



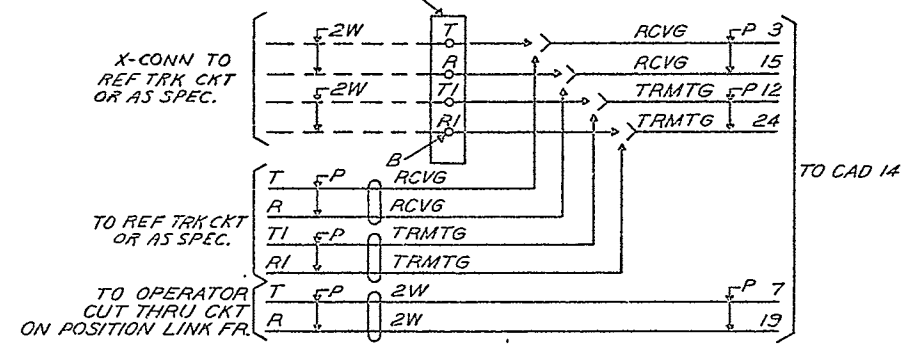
CAD 19
(FOR FIG. 26)
(TSPS NO. 1)
424V4A REPEATER



CAD 21
(FOR FIG. 27, 28)



CAD 20
(FOR PART OF FIG. 25)
24 V4C REPEATER
TRMSN LEADS TO TSPS NO. 1



NOTES:
1. SPARE TERMINALS
2, 11, 14, 16, 18, 20, 22
THRU 34, 37, 38, 41
THRU 45, 49, 50, 53
THRU 58

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FIG. 27
48V POWER DISTRIBUTION CIRCUIT
FOR TSPS NO.1 AND NO.1 ESS OFFICES
(SEE NOTE 203)

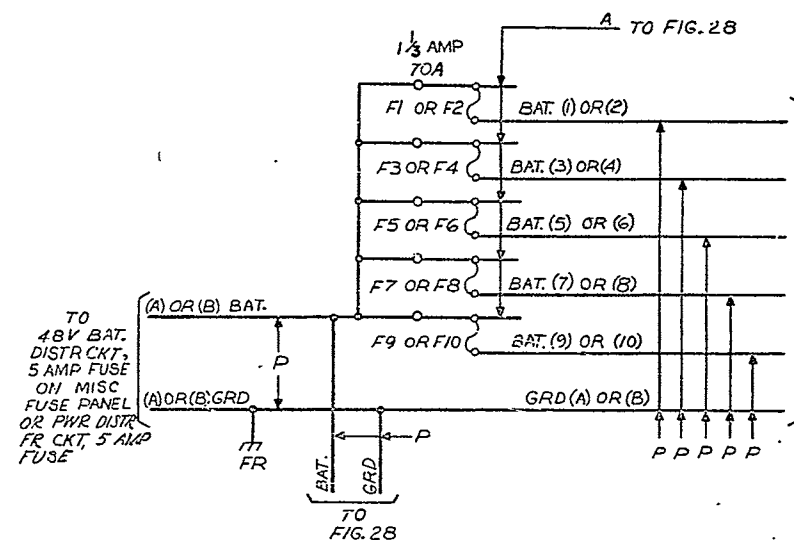
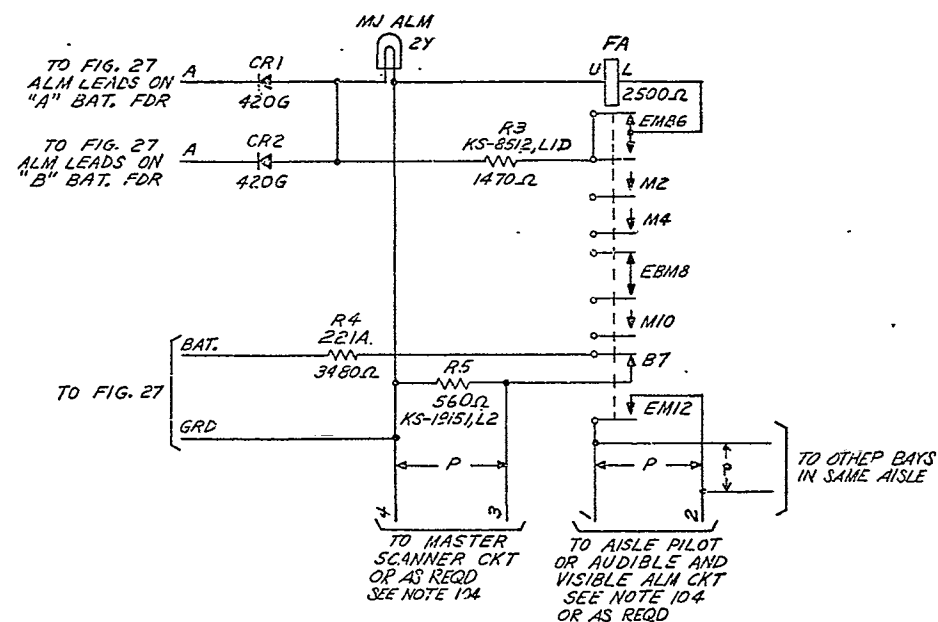
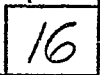


FIG. 28
FUSE ALARM FOR TSPS NO.1 AND NO.1 ESS OFFICES



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DRAWING	
ISSUE	
16D	H



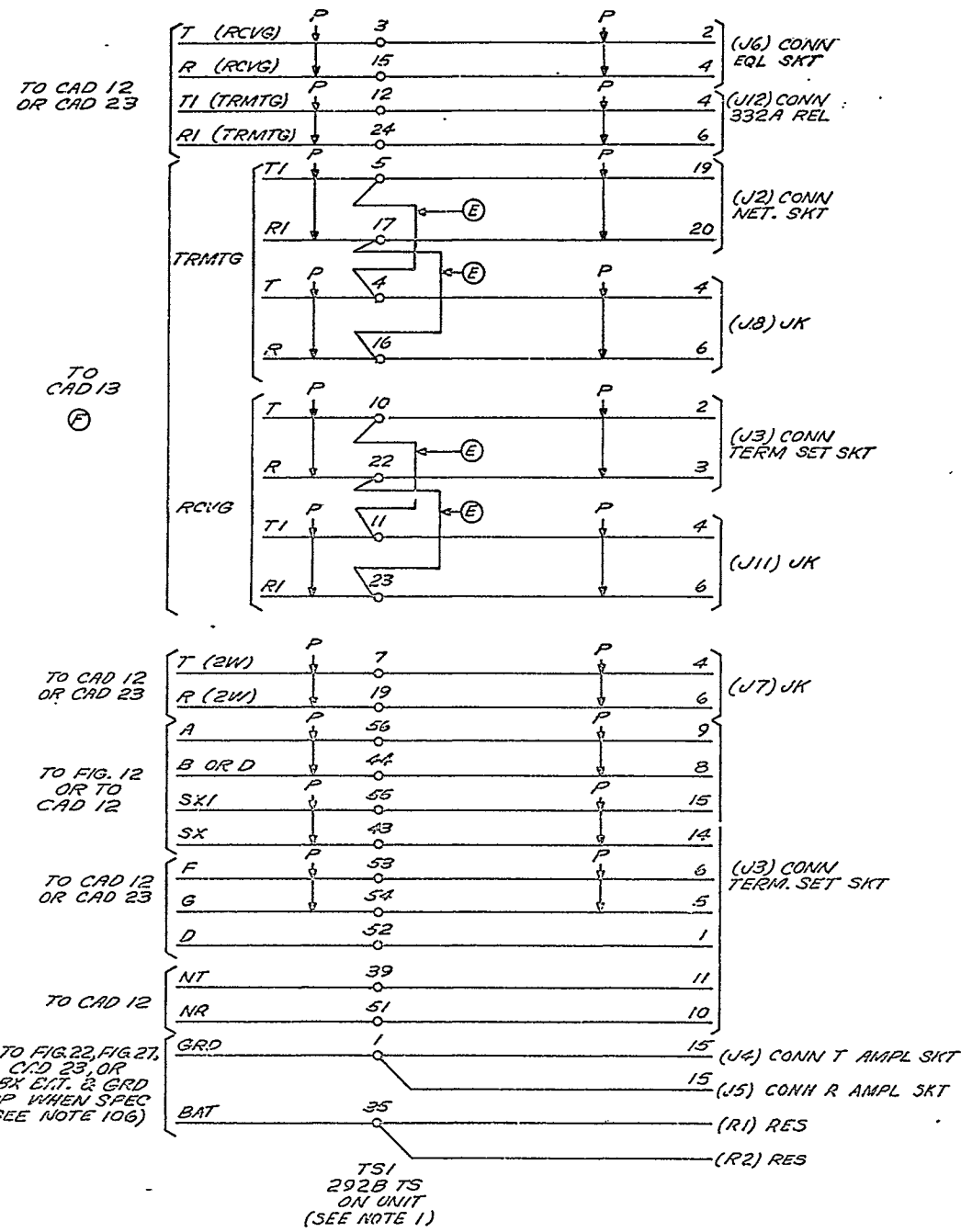
②

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INCORPORATED

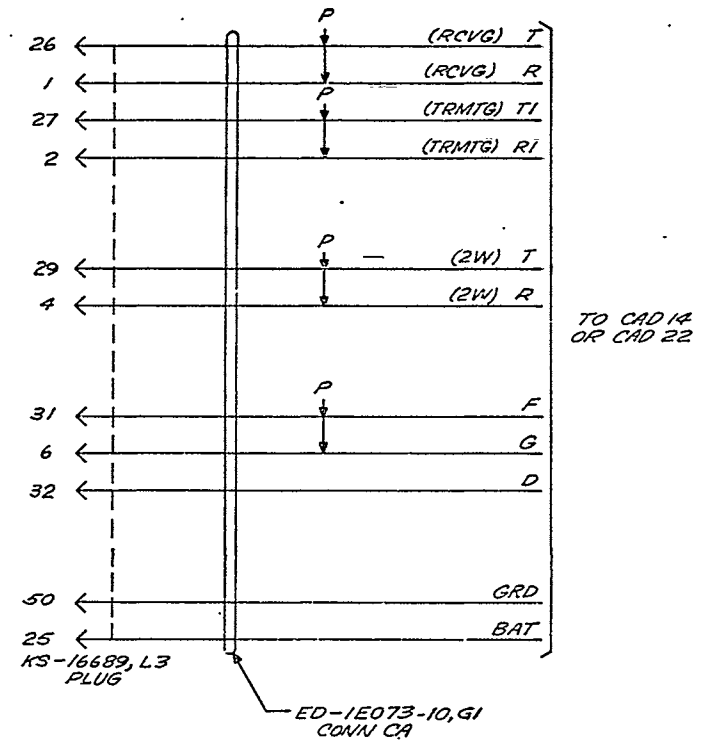
DWG SIZE
6S

PRINTED IN U.S.A.

CAD 22 (FOR FIG. 29) 24VAD REPEATER TERMINAL STRIP



CAD 23 800A PBX PLUG-IN CABLE



- NOTES:
- SPARE TERMINALS: 2,6,8,9,13,14,18,20,21, 25 THRU 34,36,37,38,40,41,42,45 THRU 50, 57,58.

SD-97047-01-33

V4 TELEPHONE REPEATER BATTERY SUPPLY AND CONNECTING CIRCUITS		2	SD-97047-01-33
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