EXTRACTS
FROM
MANUFACTURERS' BULLETINS

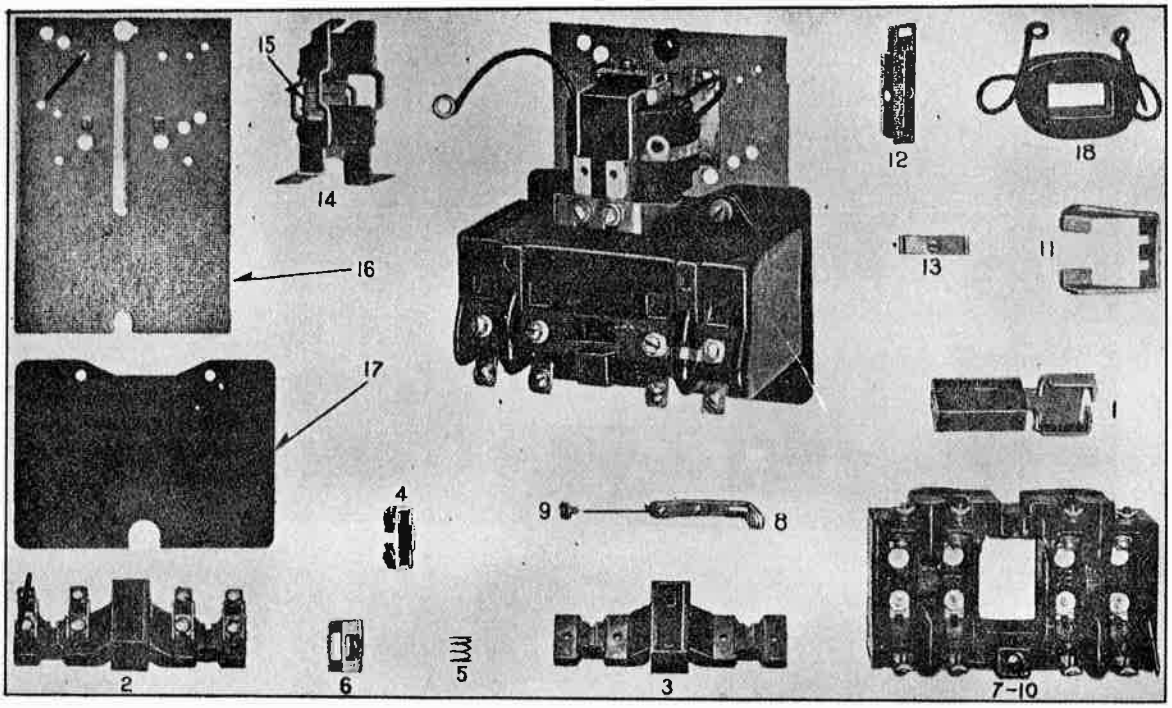
CONTACTOR
(K410)

Maintenance

The contactor will require little attention. However, it should be inspected periodically to see that no impairment of electrical or mechanical functioning occurs. Accumulations of dust may be removed with a dry cloth or a compressed air jet. Avoid oily cloths, as an oil film quickly attracts dust. The magnet armature should be removed at intervals and accumulations of smudge on it and its guides removed with benzine or a similar solvent.

Ref.	Description of Part
1	Armature Core
2	Cross Bar Complete
3	Cross Bar Only
4	Moving Contact
5	Contact Spring
6	Moving Contact Support

Ref.	Description of Part
7	Arc Box with Stationary Contact
8	Stationary Contact
9	Washer Head Screw
10	Arc Box Only
11	Armature Core Stop
12	Armature Core Guide
13	Holder for Core Guide
14	Stationary Core
15	Shading Coil
16	Mounting Base
16	Mounting Base
17	Base Insulation
×	Terminal Block Single } on
×	Terminal Block Double } Magnet
×	Terminal Block on Arc Box
18	Operating Coil



CONTACTORS

(K411, K417, K428, K433)

Maintenance

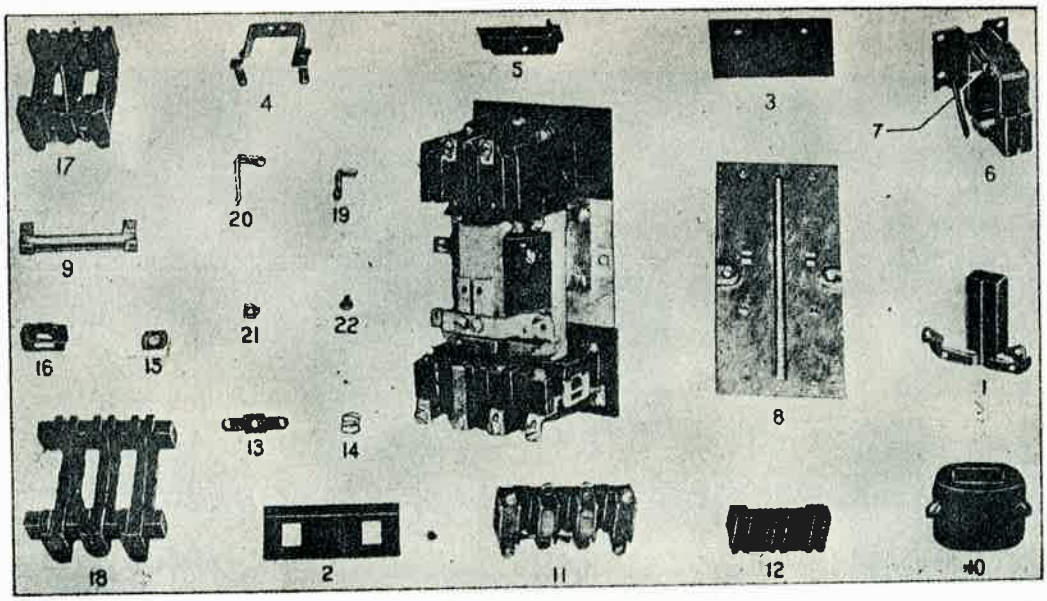
Two screws hold the magnet assembly to the base. The entire magnet and coil assembly may be removed by taking out the holding screws at the top of the magnet and removal of the two screws which attach the moving armature to the cross bar. The entire magnet assembly may then be lifted out.

The stationary contacts are held on with mounting screws. The stationary contacts may be removed by taking out the mounting screws. The contacts may thus be renewed, or any pole changed from make to break, or vice versa, by changing the stationary contacts and turning over the moving contacts. A different contact spring is required when changing from make to break, or vice versa, and a spring retainer is required when the moving contact is assembled with the contact button facing up, on an assembly below the magnet and vice versa on an assembly above the magnet.

The moving contact may be removed from the contact support **saddle** by tilting to approximately a 60° angle, depressing it fully against the spring, and tilting sidewise until the projecting ear clears the saddle on the inside. This may be done without removal of the cross bar. In case it is desired to remove the cross bar, it may be done by removal of the two screws which attach the moving armature to the cross bar, removal of the two arc box mounting screws, and removal of such long stationary contacts as are on the front side only.

The moving armature should run free and loose in the magnet guides. In case there is any binding or friction from dirt collection or otherwise, the armature should be cleaned and freed. The contacts should not require any filing or dressing, as they are made of silver, and even though they become blackened, they still give good contact. The only attention that should be necessary is replacement of the contacts after they have worn down to somewhat less than one-third of their original thickness.

Ref. No.	Description of Part
1	Armature Core
2	Cross Bar Insulation
3	Stationary Contact Support Insulation
4	Armature Core Stops
5	Armature Core Guide
6	Stationary Core
7	Shading Coil
8	Mounting Base
8	Mounting Base
9	Cross Bar Link
10	Operating Coil



CONTACTORS

(K418, K434)

Maintenance

The contactor should be inspected frequently to see that no impairment of electrical or mechanical functioning occurs in service. Accumulations of dust may be removed with a dry cloth or a compressed air jet. Except only when cleaning the magnet sealing surfaces avoid oily cloths, as an oil film quickly attracts dust.

Bearings—Bearing pins are of wear-resistant nitrided alloy steel. They should not be lubricated as oil collects dust, hindering free operation of the contactor.

Magnet—The surfaces should be cleaned occasionally with a cloth moistened with a light oil to remove deposits of dirt and prevent rusting.

The magnet armature and the bracket supporting it may be easily removed as a unit by removing the two screws securing the bracket to the cross bar.

Contacts—The contact tips should not be lubricated, as the slight wear of dry contacts produces a self-cleaning action. Should excessive roughening or burning occur the tips may be dressed with a fine file. Do not use emery cloth, as abrasive granules left imbedded in the contact surfaces may raise the contact resistance and produce a tendency of the contacts to weld.

Chiefly for reasons of mechanical strength it is advisable to replace the contact tips before they have become worn to one-third their original thickness.

Correct contact pressures should be maintained as follows:

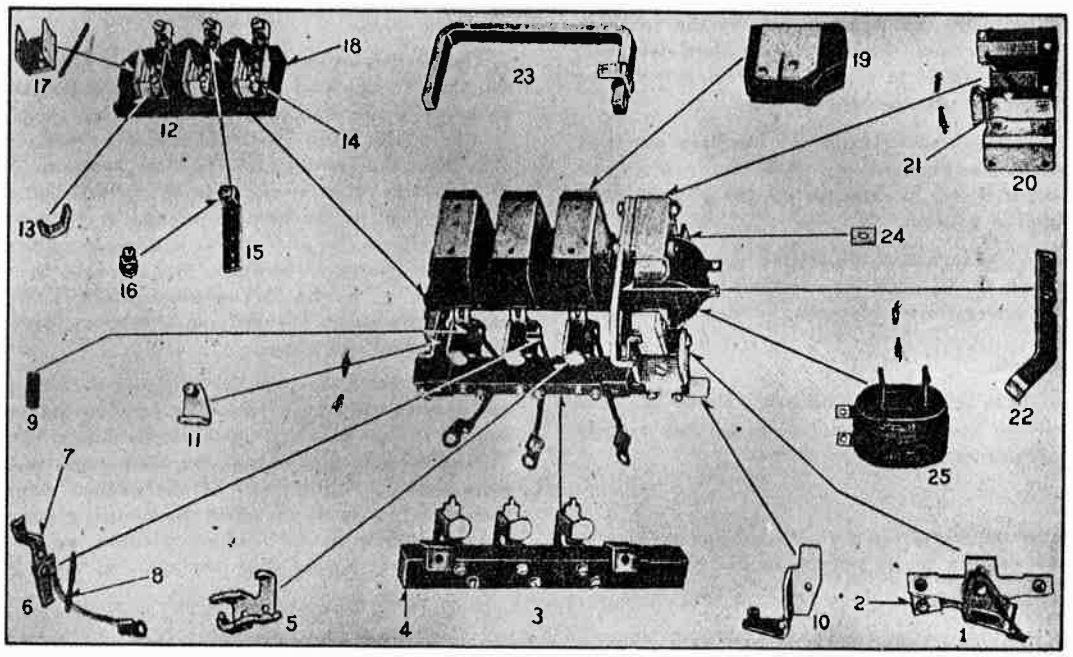
Initial pressure—1 lb. 2 oz.
Final pressure—2 lb. 14 oz.

The contact gap, measured at the heels of the contacts in their fully-open position, is 7/16 inch.

Operating Coil—To remove the coil, first remove the armature by taking out the two bolts securing its supporting bracket to the cross bar. Then loosen the bolt which holds the coil to the magnet and separate the rectangular washers until it is possible to lower the coil entirely free of the magnet.

De-ion Arc Quenchers—To remove a De-ion arc quencher, grasp it at its lower end and swing it upward, striking its lower corner upward with the palm of the hand to overcome any initial resistance to movement. The arc quencher is then free to be lifted entirely clear of the contactor.

Ref. No.	Description of Part
1	Armature Iron with Mounting Bracket
2	Non-Magnetic Shim
3	Cross Bar with Moving Contact Bracket
4	Cross Bar
5	Moving Contact Bracket
6	Moving Contact with Shunt
7	Moving Contact
8	Shunt
9	Contact Spring
10	Bearing Bracket—Magnet End
11	Bearing Bracket—Left Hand End
12	Stationary Contact Base Complete
12	Stationary Contact Base Complete
13	Stationary Contact
14	Stationary Con. Screw, 190"-32 x 3/8" Fil. Hd. I. M. Sc.
15	Stationary Contact Connector
16	Connection Lug—Solderless
	Stationary Contact Spacer
17	Arc Quencher Support
18	Base
	Barrier
19	Arc Quencher
	Shunt Stud
20	Stationary Core
21	Shading Coil
22	Stop
23	Frame
24	Coil Retaining Washer
25	Operating Coil



PNEUMATIC TIME DELAY RELAYS

(K412, K419, K421, K424, K425, K428, K429, K435, K437, K440, K441)

The AGASTAT is an electro-pneumatic time delay switching device—a reliable and efficient instrument for introducing a time delay into electrical circuits.

A time delay ranging from .1 second to 5 or more minutes may be obtained. Adjustment is secured simply by turning the adjusting screw.

In the type 1 AGASTAT this delay starts when the control circuit is closed; in the type 2 it starts when the control circuit is opened.

The AGASTAT is constructed with few moving parts and is small, compact and easily mounted. It consists principally of a pneumatic timing head, a solenoid assembly, a switch and terminals.

A special diaphragm and cap encase the head, providing an enclosed, dustproof timing chamber in which the air used for timing is recirculated.

Coils for 110 or 220 volt 60 cycle alternating current service consume approximately 6 watts.

AGASTAT is made in two basic types:

Type 1—Time delay starts when coil is energized.

Type 2—Time delay starts when coil is de-energized.

The type 1 AGASTAT functions as follows:

When the control circuit is energized, solenoid action takes place, starting the time delay. At the expiration of the delay interval a switch transfer occurs, breaking one set of contacts and making another. (See contact arrangements.)

The switch remains in this transferred position until the control circuit is de-energized, at which time an instantaneous switch transfer takes place, restoring the contacts to their original positions.

The type 2 AGASTAT functions as follows:

When the control circuit is energized, solenoid action causes an instantaneous switch transfer, breaking one set of contacts and making another. (See contact arrangements.)

The switch remains in this transferred position as long as the control circuit is energized. When the control circuit is de-energized, the time delay starts. At the expiration of this delay interval a switch transfer takes place, restoring the contacts to their original position.

OVERCURRENT RELAYS

(K414, K415, K416, K420, K426, K427, K430, K431, K432, K436, K442, K443)

OPERATION AND MAINTENANCE

In all forms, the moving contacts are operated directly by the plunger assembly.

On forms with mechanical target, the target is lifted by a cross-pin through the plunger rod. On forms with electrical target the target has no mechanical relation with the plunger assembly, but is lifted only by the auxiliary armature. In either form, the target when lifted rises from behind the target shield to a position where it is visible; it latches there and must be reset by hand.

Electric holding is provided by the auxiliary armature holding up the plunger assembly when the auxiliary coil is energized; it is not intended to lift the plunger from the de-energized position.

Hand-reset contact action is provided by connecting the plunger directly to the target lever, so that the target lever holds up the plunger assembly until the target is reset.

Care of Contacts

If the contacts require cleaning use a clean, fine, thin file. Do not use crocus or emery cloth as they tend to embed insulating particles in the surface.

Setting

Any desired setting within the calibrating range may be obtained by turning the armature on the plunger rod. The armature is provided with an internal locking spring which requires no manipulation.

Adjustments

The relay has been adjusted at the factory, but if a check shows that the adjustments have subsequently been disturbed, the following points should be observed in restoring them.

The normal adjustment of contacts is 3/64 inch wipe; this may be adjusted by bending the contact stops that lie between the stationary contact springs and the ribs on the molded base. The bend should be made about ¼ inch from the front tip of the stop, so as to obtain an exact setting more easily than it could be obtained by bending next to the base. A change in wipe on a "b" contact affects the pick-up for a given armature setting in the de-energized position. An increase in wipe on either the "a" or the "b" contacts decreases the contact gap and decreases the difference between pick-up and drop-out, and vice versa.

The contact pressure in the fully picked-up or dropped-out position may be adjusted by bending the stationary contact springs near their point of attachment to the base. This adjustment may change the contact gap and contact wipe slightly. Adjustments of the contact stops within the normal range do not affect the contact pressure in the fully picked-up or dropped-out position, as the contact springs are separated from the stops in these positions.

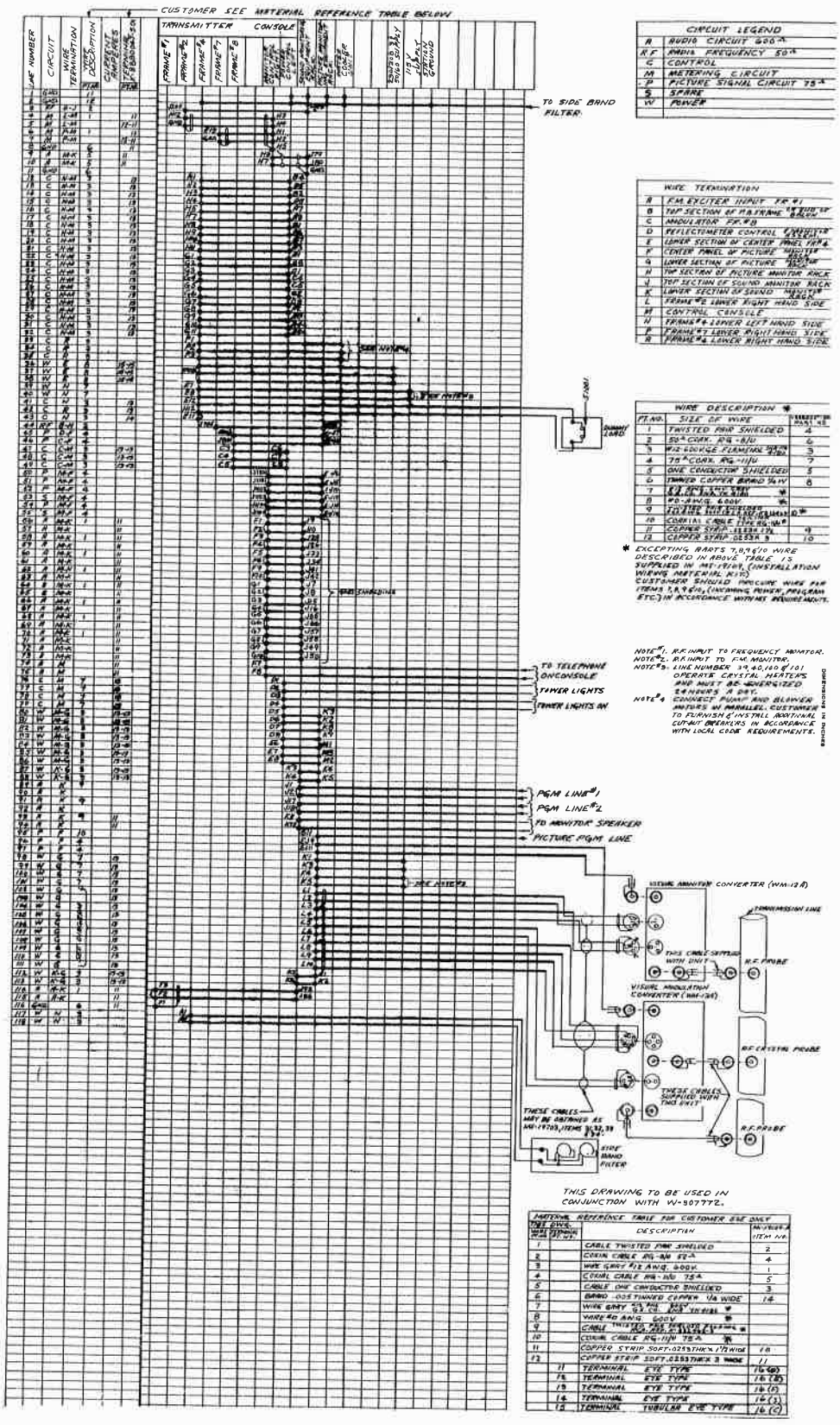


Figure 79 – Wire Chart (619552-sub 7)

MATERIAL REFERENCE TABLE FOR CUSTOMER USE ONLY.			
THIS DRAWING PT. NO	WIRE NO. INCLUSIVE	DESCRIPTION	MI-19104-A ITEM NO.
	1 TO 157	WIRE GRAY #12 AWG. 600 V. SOLID	6
	2807O261	WIRE GRAY 26/.010 2000 V.	7
	2707O271	LEAD SHEATH CABLE #8 AWG 5000 V.	8
	300	COAXIAL CABLE RG 8A/U 52.5Ω	9
	3107O317	COPPER STRIP-SOFT-.025" THK. X 1½" WIDE.	12
6		COPPER STRIP-SOFT-.025" THK X 3" WIDE.	13
10		TERMINAL EYE TYPE	16(H)
11		TERMINAL EYE TYPE	16(P)
12		TERMINAL EYE TYPE	16(R)
13		CONNECTOR P 202	16(A)
14		ADAPTER FOR P202	16(B)

WIRE TABLE.		
WIRE DESTINATION PART NO	DESCRIPTION	WIRE NO. INCLUSIVE
2	600 V. GRAY FLAMENOL .081 DIA. K-81041-16	1-157
3	2000 V. 26/.010 PS 25Ω GRAY WIRE	280-261
4	5000 V. MI-19104 #8 LEAD SHEATH WIRE #8 AWG	270-271
7	COAXIAL CABLE RG 8A/U 52Ω A K-99258-2	300
5	COPPER STRIP .025" X 1½"	310-317

NUMBERS IN WIRES REFER TO WIRE TABLE (WIRE DESTINATION RESPECTIVELY) THUS, 150-2-NS, INDICATES WIRE No. 150 TERMINATES IN FRAME #2 AT TERM. BOARD 'N' ON TERM. # 8.

FOR STRAIGHT LINE ARRANGEMENT OF TRANSMITTER FRAMES, WIRES SHOWN IN BASE DUCT MAY DRESS TO FRONT OR REAR OF TRANSMITTER. WIRES SHOWN BETWEEN ADJACENT FRAMES WILL DRESS THRU SLOTS IN SIDE PANELS.
FOR VARIOUS ANGLE ARRANGEMENT OF TRANSMITTER FRAMES, DRESS ALL WIRES SHOWN IN BASE DUCT TO FRONT OF TRANSMITTER. WIRES BETWEEN ADJACENT FRAMES POSITIONED AT AN ANGLE, MUST ALSO DRESS THRU BASE DUCTS (TO FRONT OF TRANSMITTER.

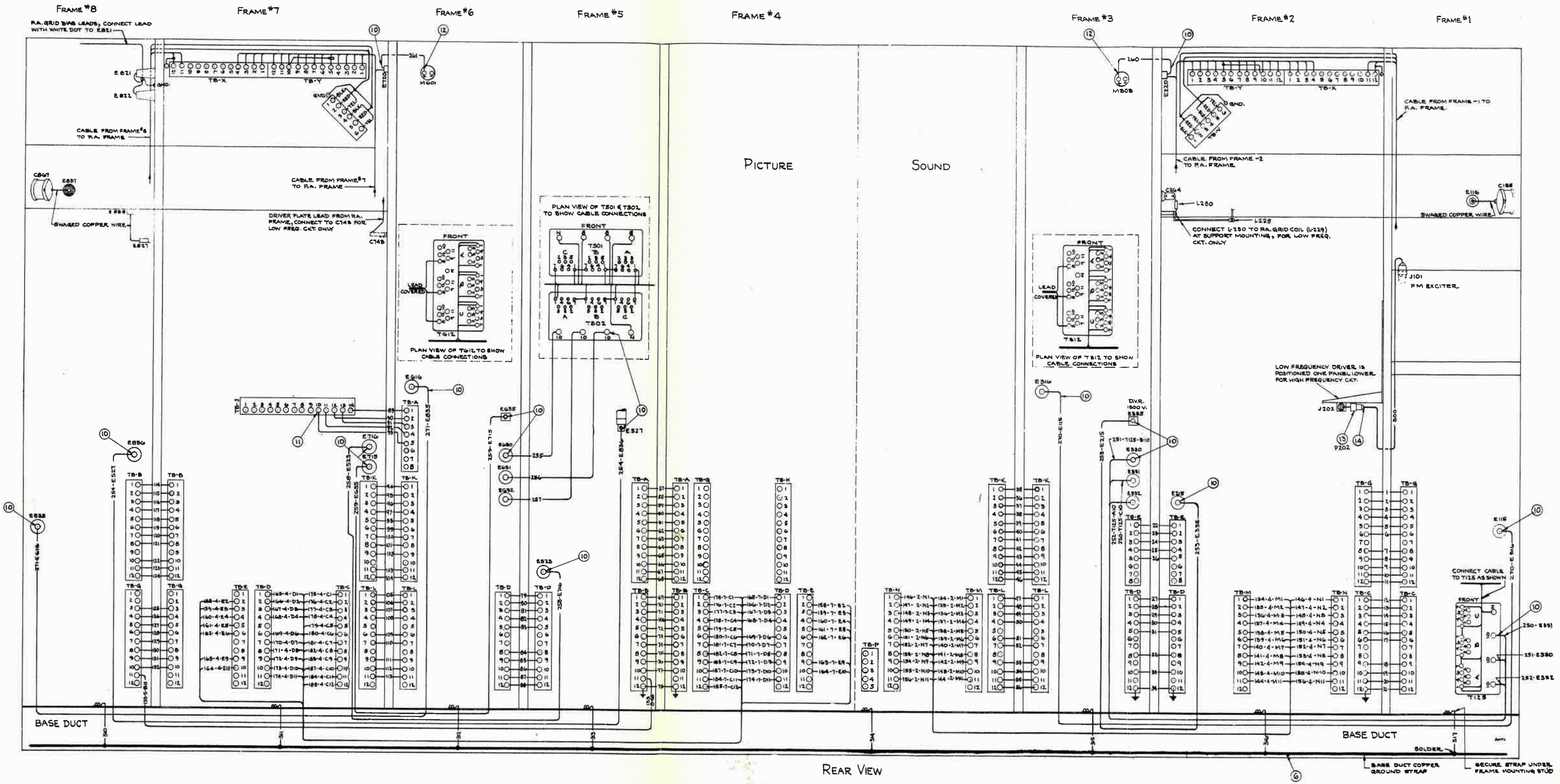


Figure 80 - Interconnection Diagram, Transmitter (307772-sub 4)

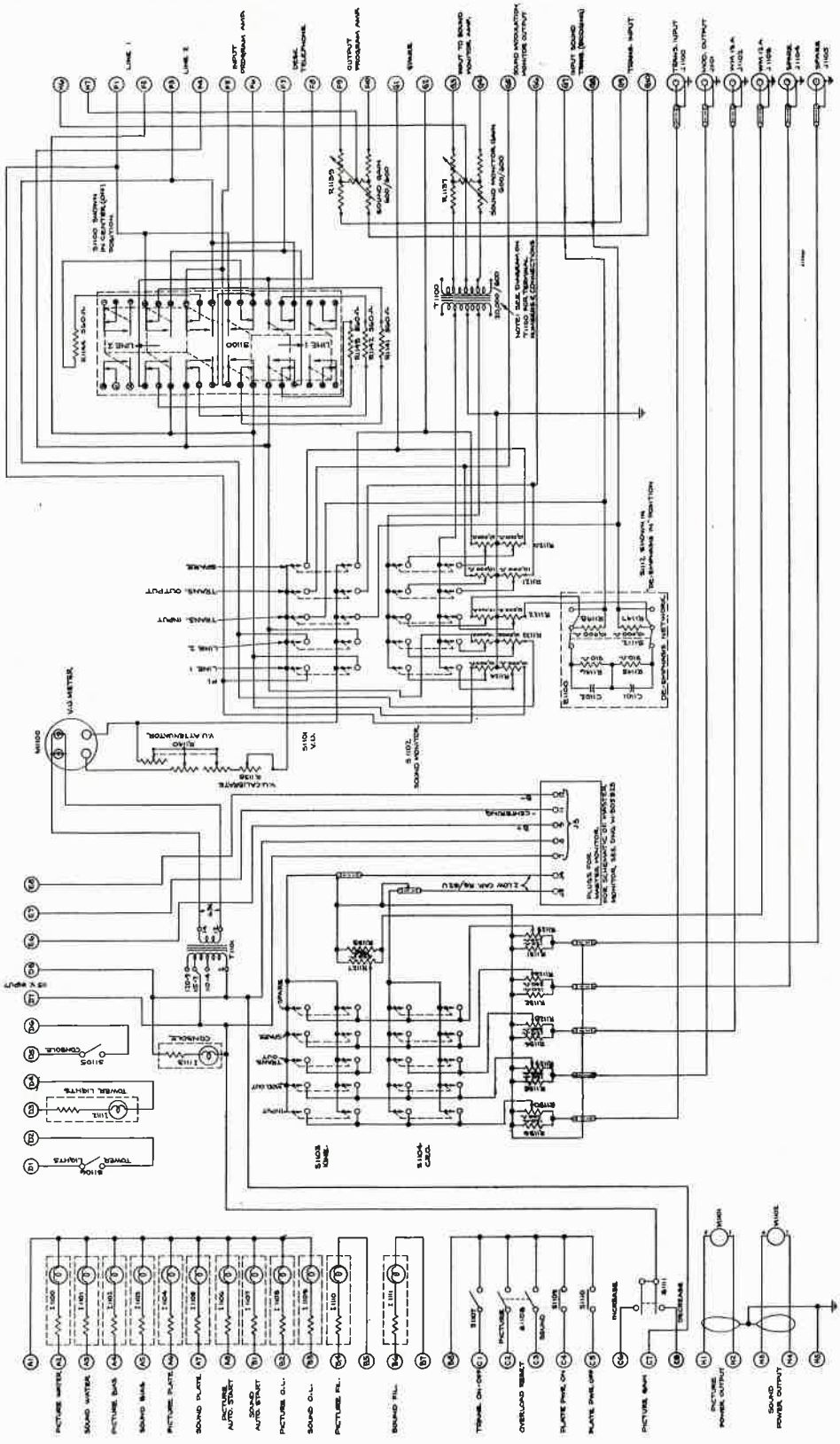


Figure 81 – Schematic Diagram, Control Console (619545-sub 3)

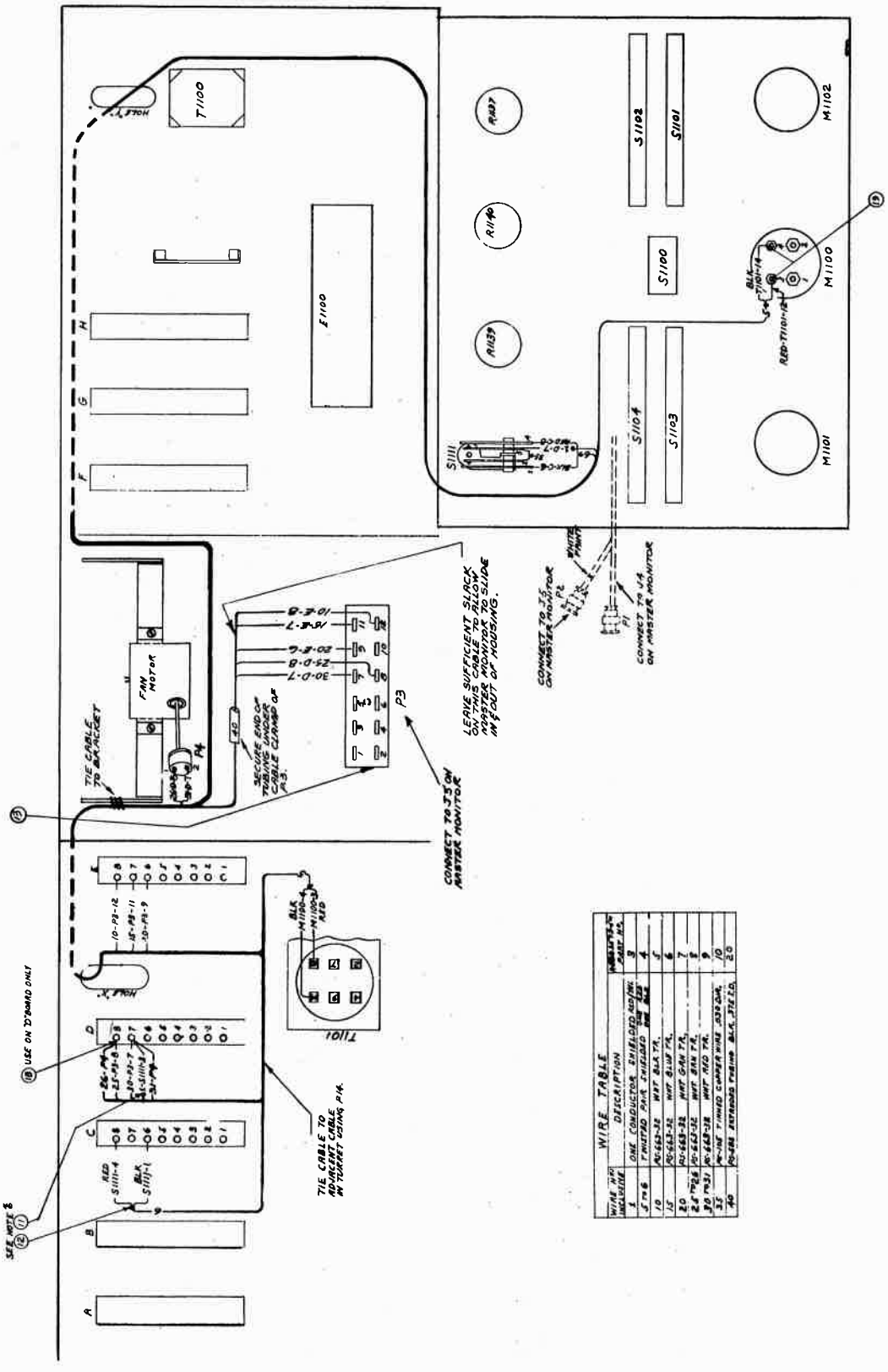


Figure 82 – Interconnection Diagram, Control Console (618382-sub 1)

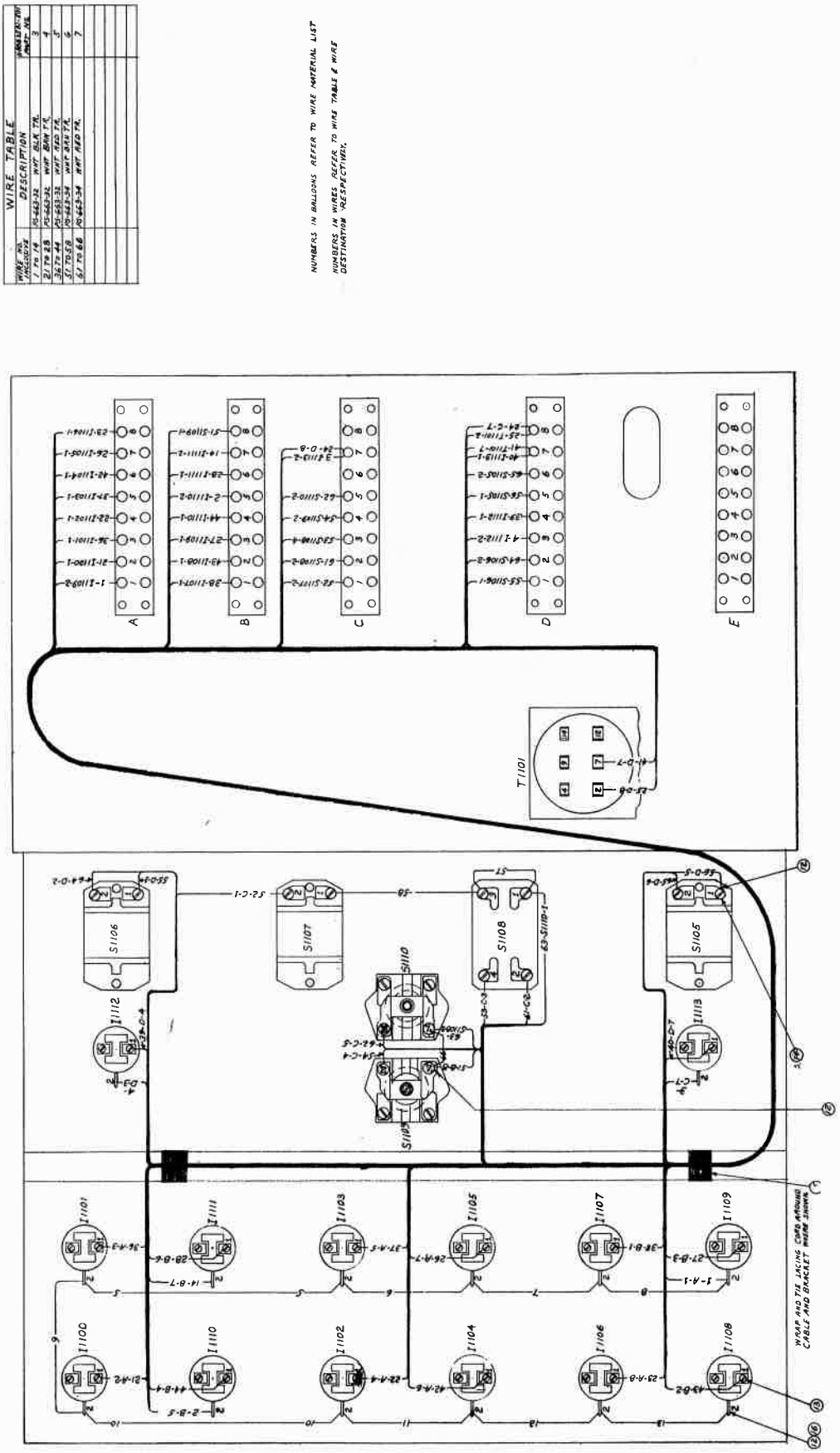
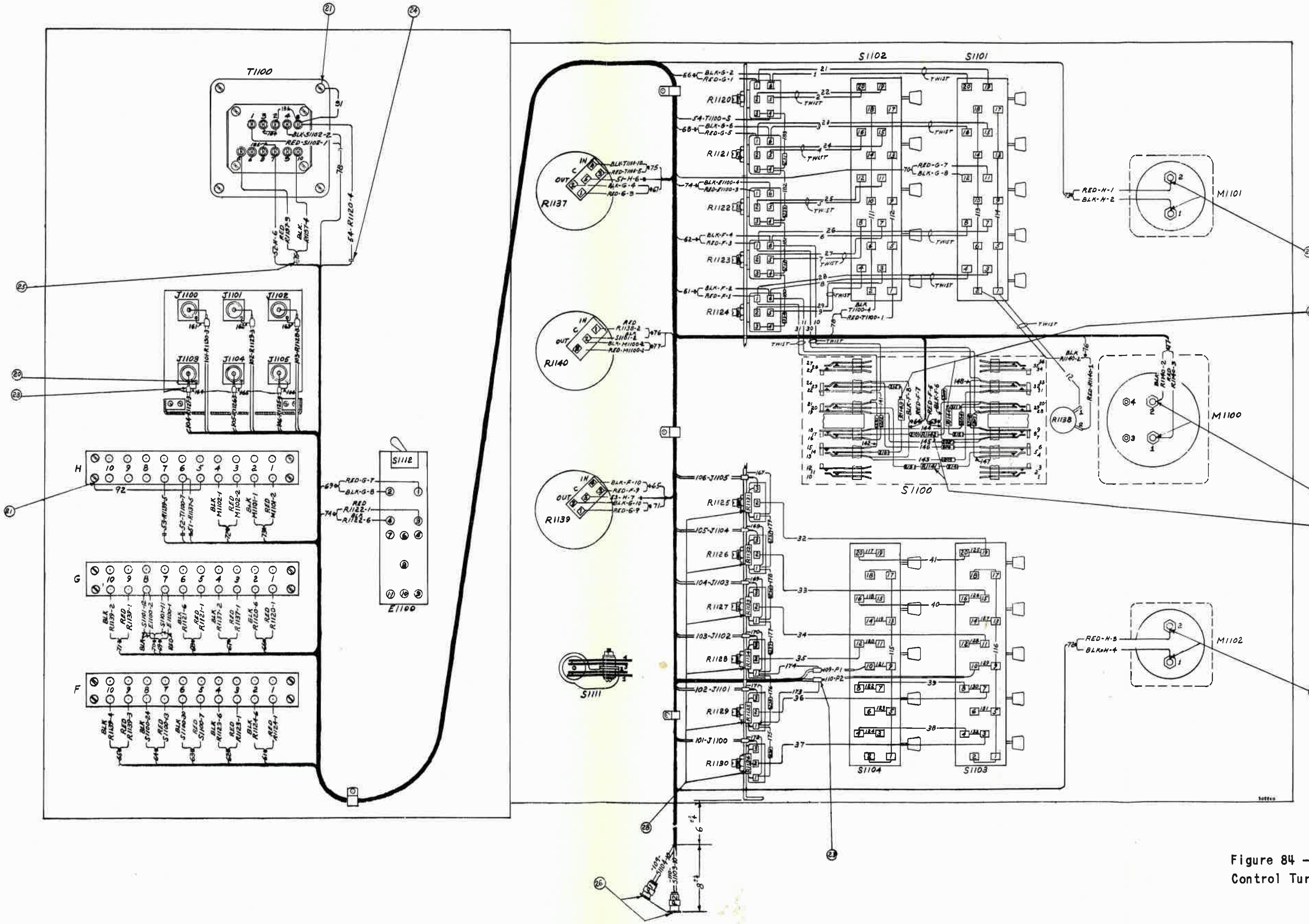


Figure 83 - Connection Diagram, Power Control Turret - Console (618379-sub 2)



WIRE TABLE		
WIRE NUMBERS INCLUSIVE	DESCRIPTION	R-3883310-501 PART No.
1 TO 12	PS-663-31 WHT BLK TR.	3
21 TO 41	PS-663-31 WHT RED TR.	4
51 TO 54	SHIELDED CABLE ONE CONDUCTOR	6
61 TO 78	SHIELDED CABLE TWISTED PAIR	7
91 TO 92	PS-663-32 WHT BLK TR.	5
101 TO 106	RG-59/U COAXIAL CABLE	8
109 TO 110	RG-62/U COAXIAL CABLE	9
111 TO 132	PS-105 TINNED COPPER WIRE .020 DIA.	10
141 TO 148	PS-105 TINNED COPPER WIRE .032 DIA.	11
161 TO 186	PS-105 TINNED COPPER WIRE .040 DIA.	12
201 TO 216	PS-50 FLEXIBLE VARNISHED TUBING BLK .042 I.D.	13
231 TO 239	PS-50 FLEXIBLE VARNISHED TUBING BLK .053 I.D.	14

NUMBERS IN WIRES REFER TO WIRE TABLE AND WIRE DESTINATION RESPECTIVELY.

Figure 84 - Connection Diagram, Monitor Control Turret - Console (308800-sub 4)

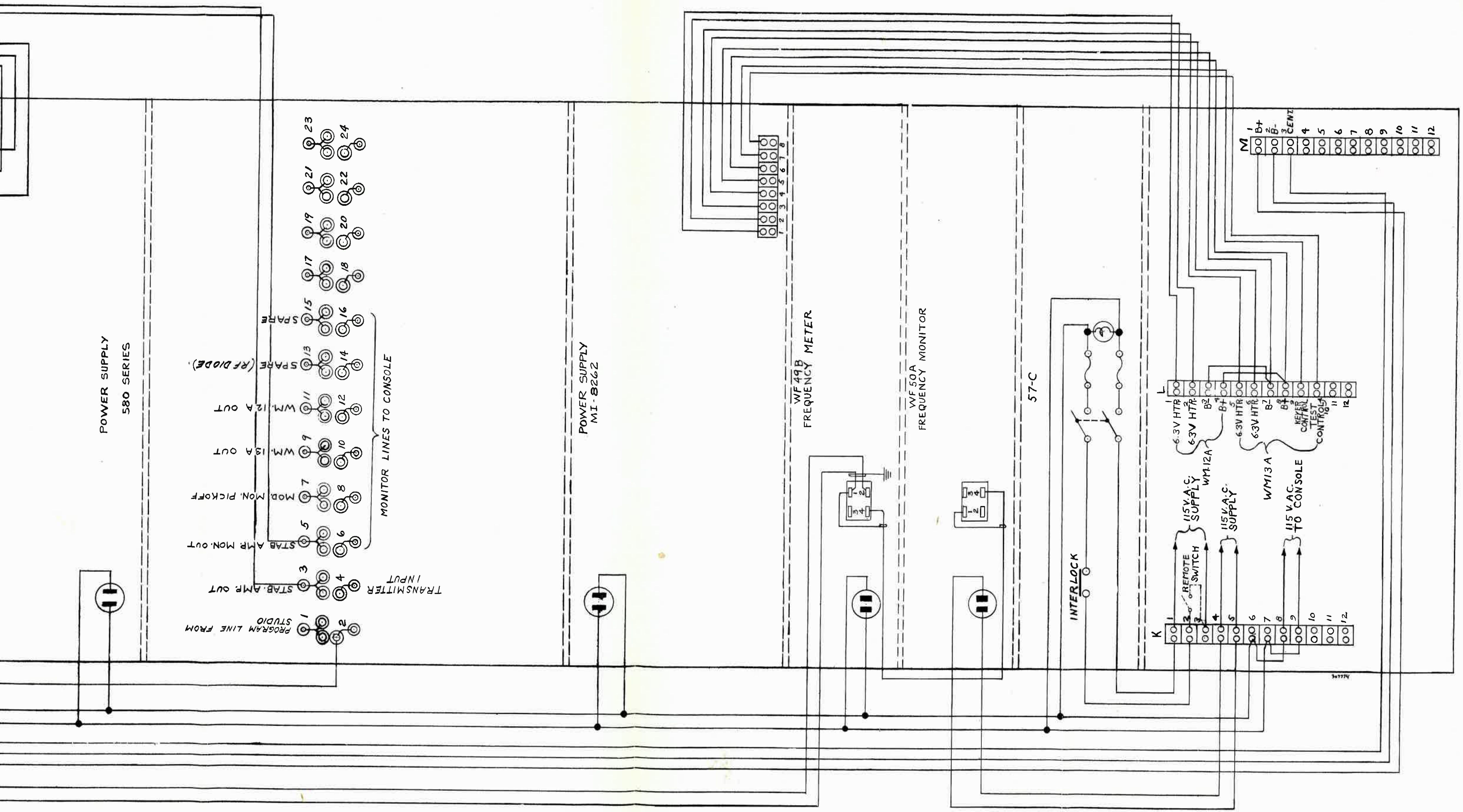
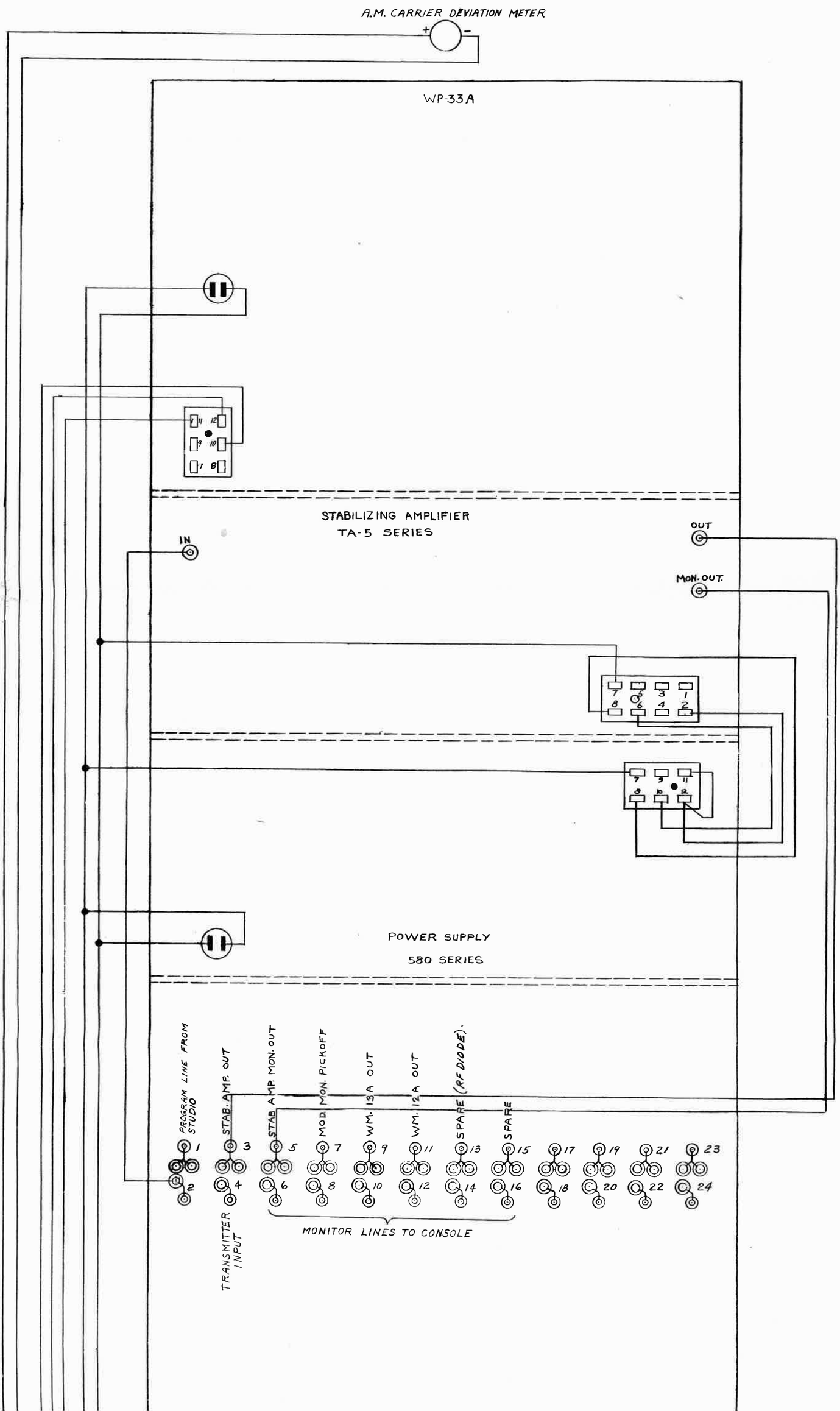


Figure 85 - Schematic Diagram.
Visual Monitor Rack (307774-sub 5)


A.M. CARRIER DEVIATION METER
+
-
WP-33A
STABILIZING AMPLIFIER
TA-5 SERIES
IN
OUT
MON. OUT
POWER SUPPLY
580 SERIES
PROGRAM LINE FROM STUDIO
STAB. AMP. OUT
STAB AMP. MON. OUT
MOD. MON. PICKOFF
WM. 13A OUT
WM. 12A OUT
SPARE (RF DIODE)
SPARE
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
TRANSMITTER INPUT
MONITOR LINES TO CONSOLE

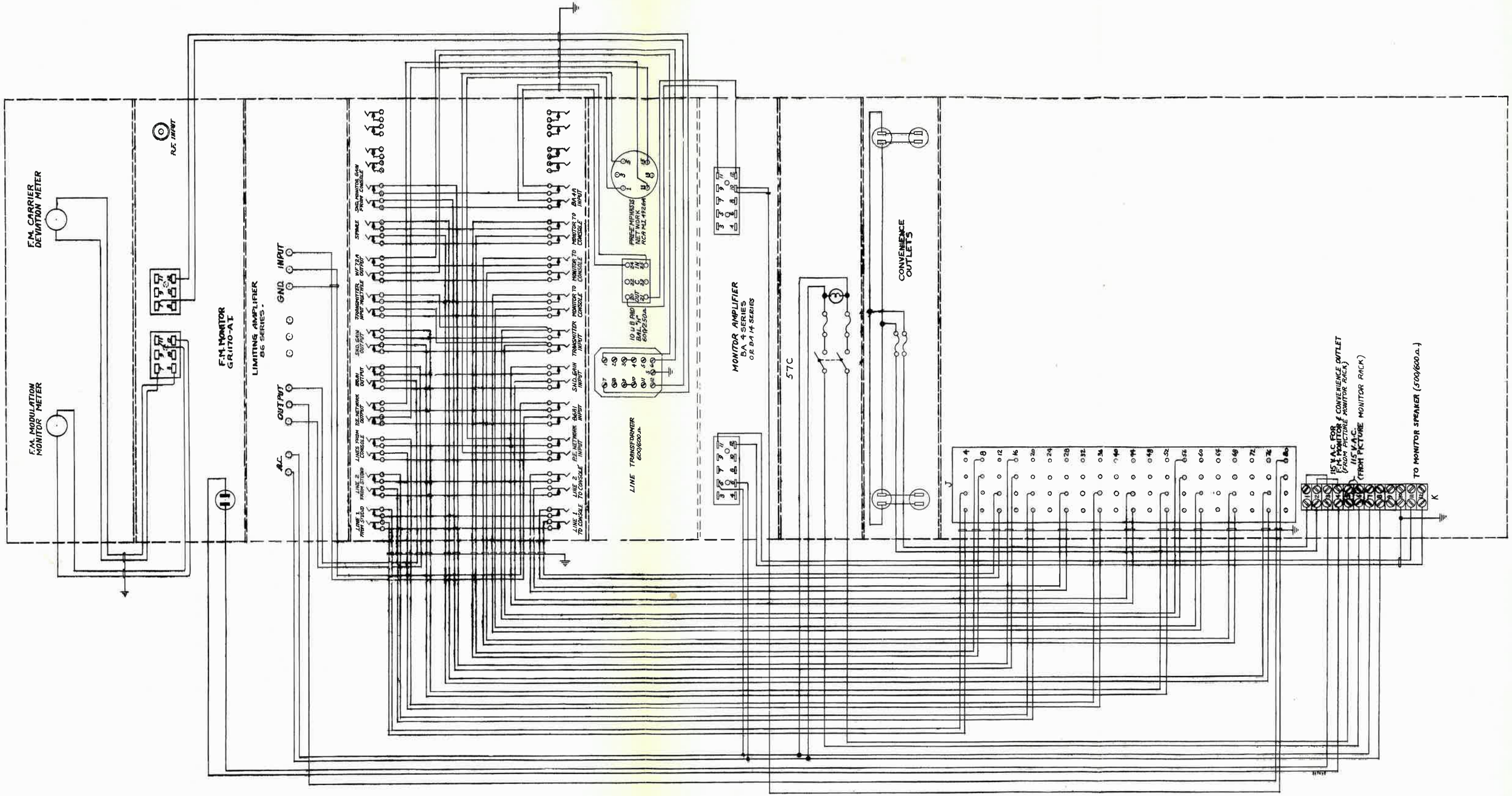


Figure 86 - Schematic Diagram,
Aural Monitor Rack (307629-sub 6)

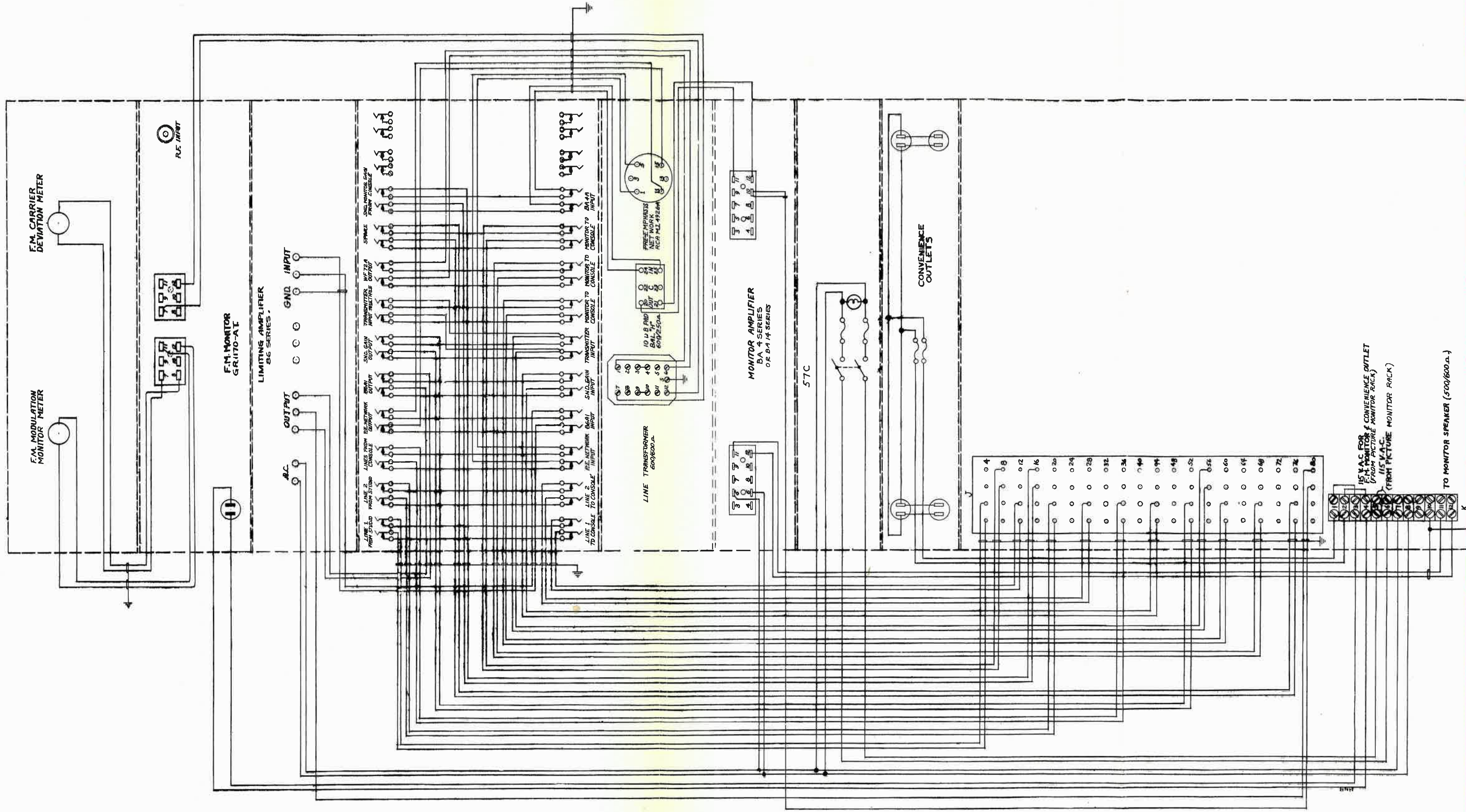
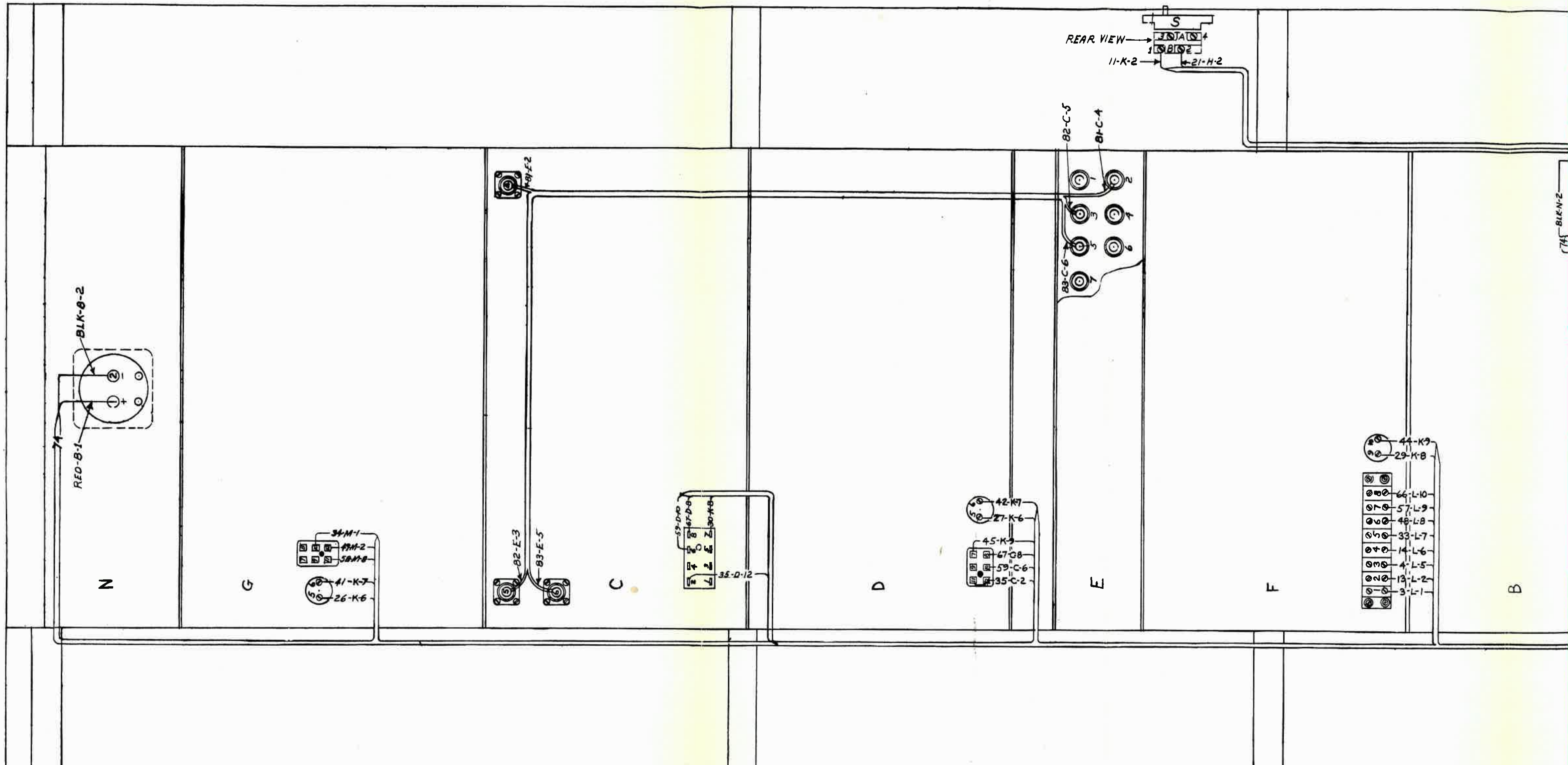
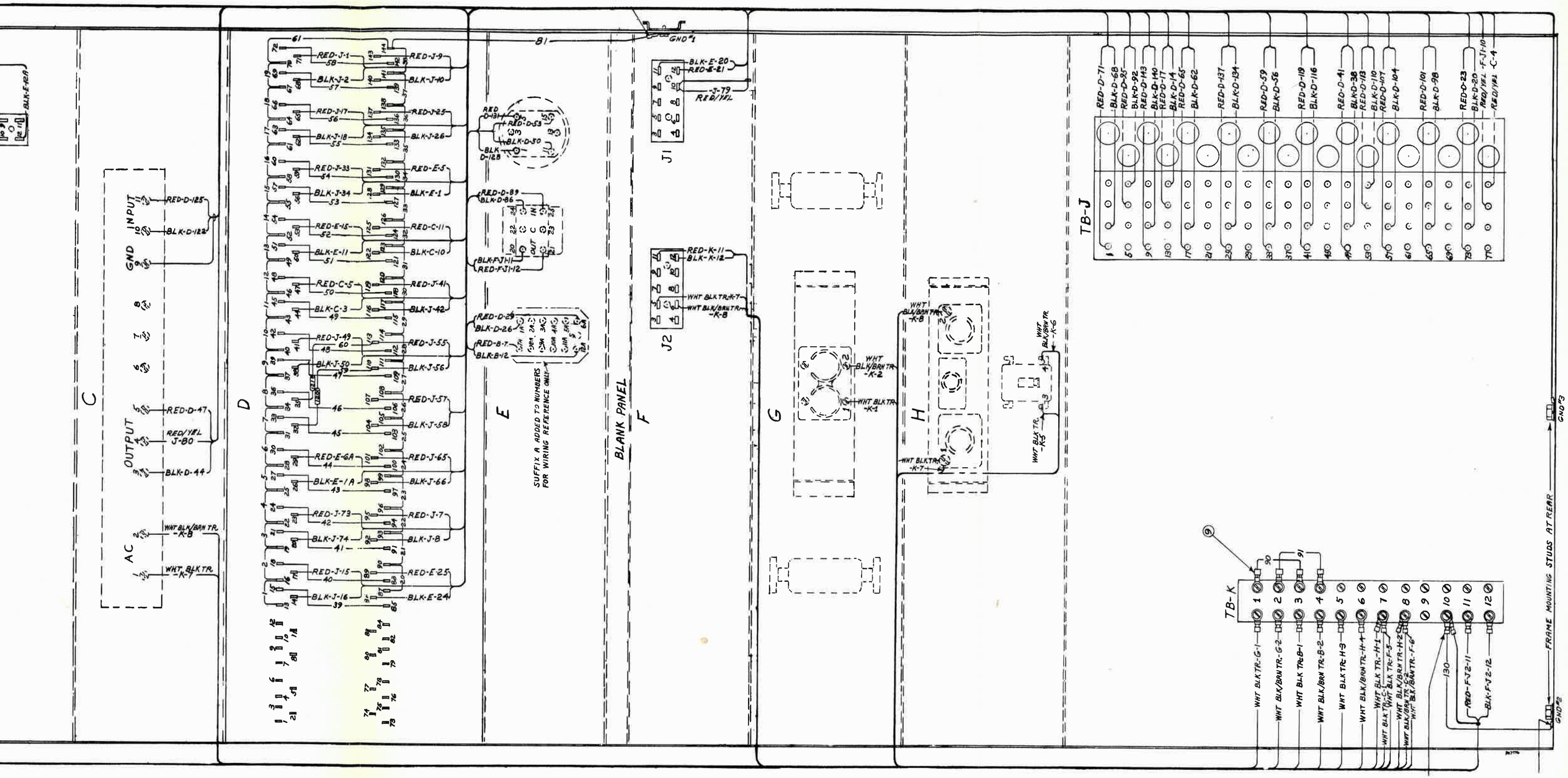


Figure 86 - Schematic Diagram, Aural Monitor Rack (307629-sub 6)

WIRE COLOR TABLE	
WIRE NUMBERS (INCLUSIVE)	
1 TO 4	WHITE BLACK TR.
11 TO 14	WHITE BLACK/BROWN TR.
21	WHITE BROWN TR.
26 TO 35	WHITE BLACK TR.
41 TO 49	WHITE BLACK/BROWN TR.
56 TO 59	WHITE RED TR.
65 TO 67	WHITE GREEN TR.
74	WIRE (SHIELDED)
81 TO 83	COAXIAL CABLE
90	ONE CONDUCTOR SHIELDED

Figure 87 - Connection Diagram,
Visual Monitor Rack (307719-sub 5)


S
REAR VIEW
11-K-2
21-H-2
34-M-1
49-M-2
58-M-8
41-K-7
26-K-6
35-D-12
42-K-7
27-K-6
45-K-9
67-G-8
59-C-6
35-C-2
44-K-9
29-K-8
66-L-10
57-L-9
48-L-8
33-L-7
14-L-6
4-L-5
13-L-2
3-L-1



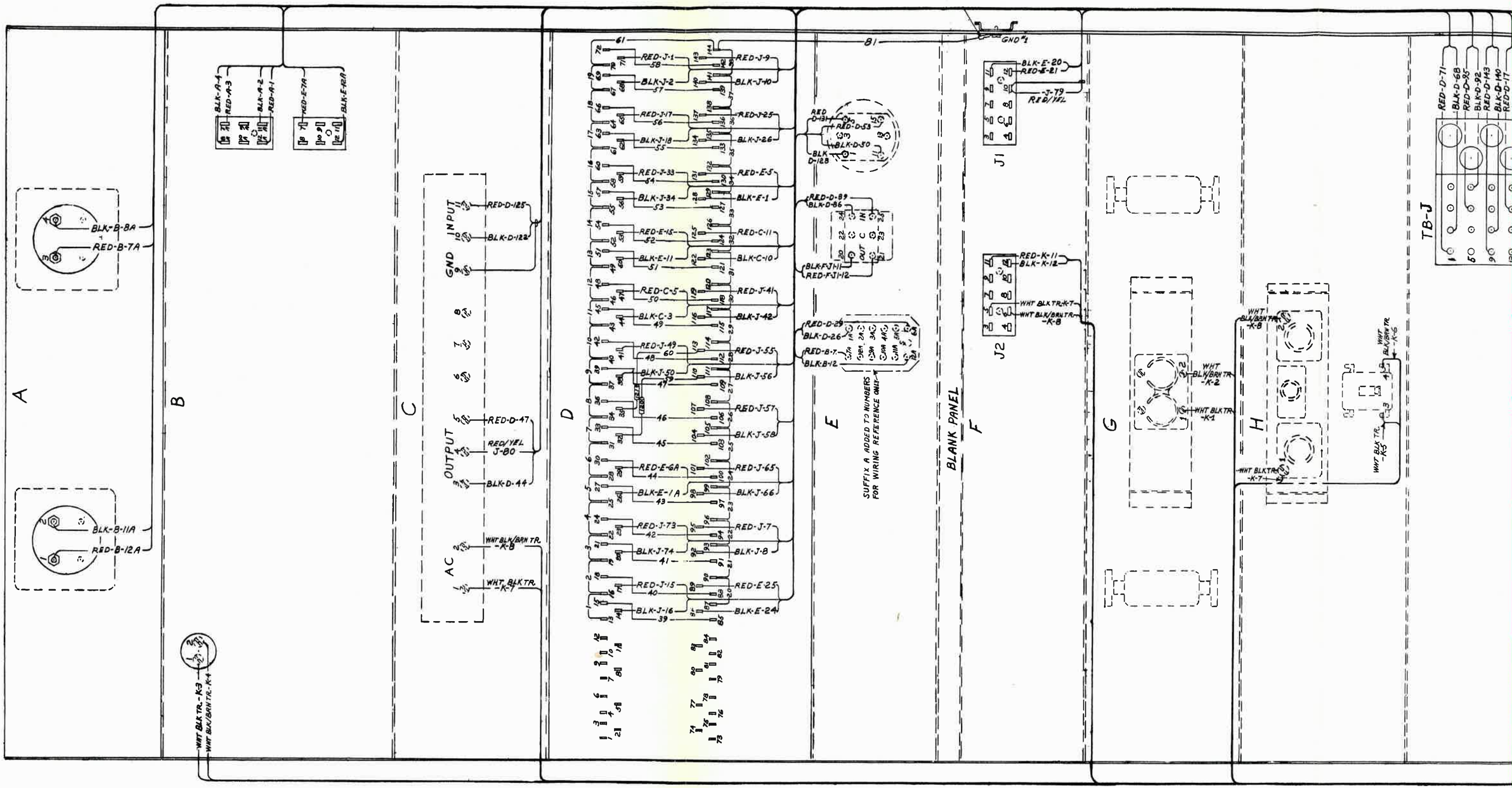
NOTES

NUMBERS IN WIRES REFER TO WIRE TABLE AND WIRE DESTINATION RESPECTIVELY.

CONNECTION TO UNITS SHOW IN DOTTED OUTLINE WILL BE MADE BY PURCHASER.

WIRE TABLE		
PART No. THIS DWG.	DESCRIPTION	WIRE Nos INCLUSIVE
4	PS-663-32 WHT BLK TR. 19/0092	81
5	PS-145 TINNED COPPER WIRE .030 DIA.	1 TO 61
6	PS-50 BLACK TUBING .0121D.	120, 121
11	PS-663-33 WHT BLK TR. 37/0113	90 TO 91
12	TINNED COPPER BRAID ⅜ WIDE	130

Figure 88 – Connection Diagram, Aural Monitor Rack (307776-sub 5)



NOTES

NUMBERS IN WIRES REFER TO WIRE TABLE AND WIRE DESTINATION RESPECTIVELY.

CONNECTION TO UNITS SHOW IN DOTTED OUTLINE WILL BE MADE BY PURCHASER.

WIRE TABLE		
PART NO. THIS DWG.	DESCRIPTION	WIRE NOS. INCLUSIVE
4	MS-663-32 WHT BLK TR., 19/0032	81
5	MS-105 TINNED COPPER WIRE .032 2½	1 TO 1
6	MS-50 BLACK TUBING .042 I.D.	120,12
11	MS-663-33 WHT BLK TR. 37/0113	90TO9
12	TINNED COPPER BRAID ⅜ WIDE	130

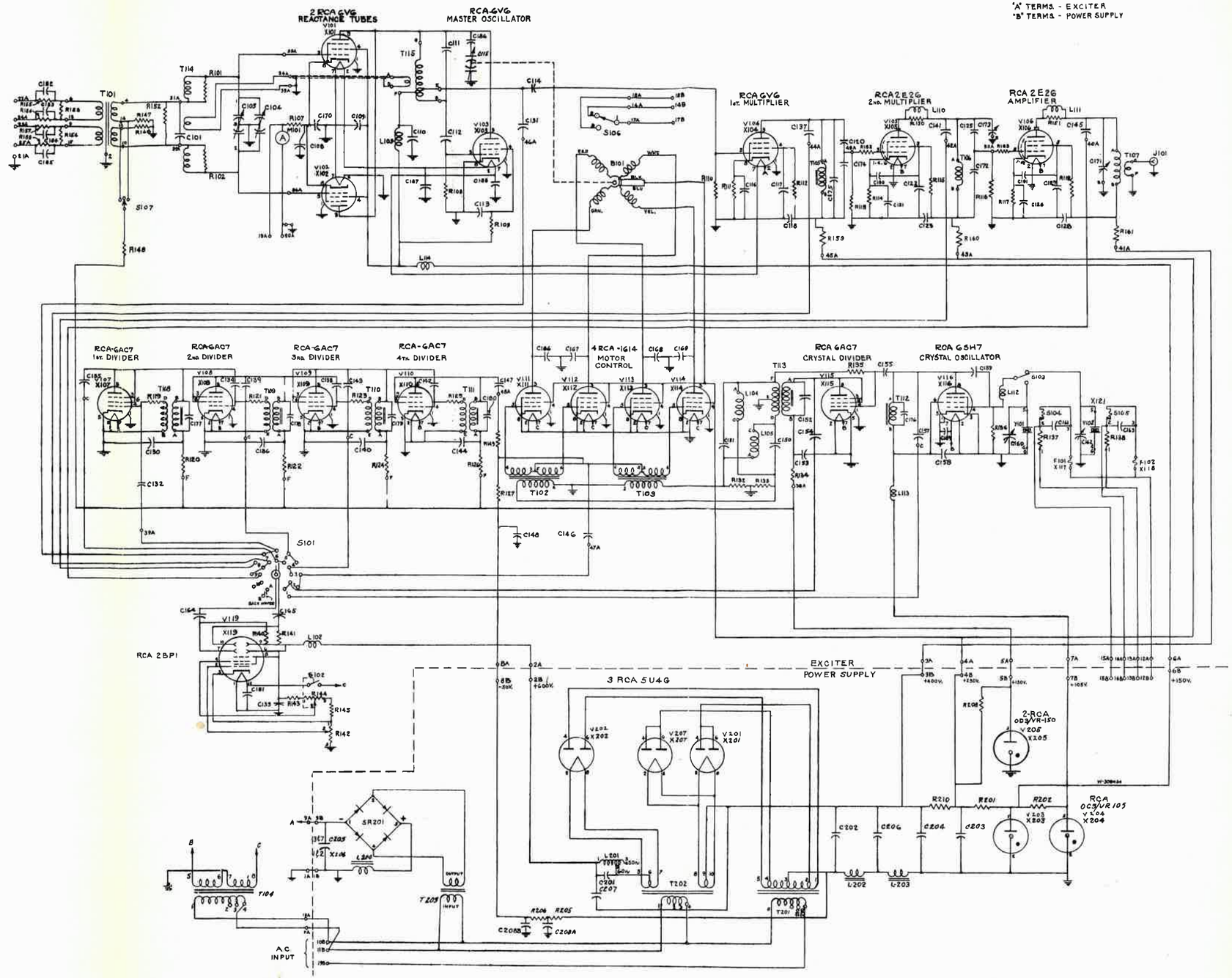


Figure 89 - Schematic Diagram, Exciter and Exciter Power Supply - Aural (308424-sub 21)

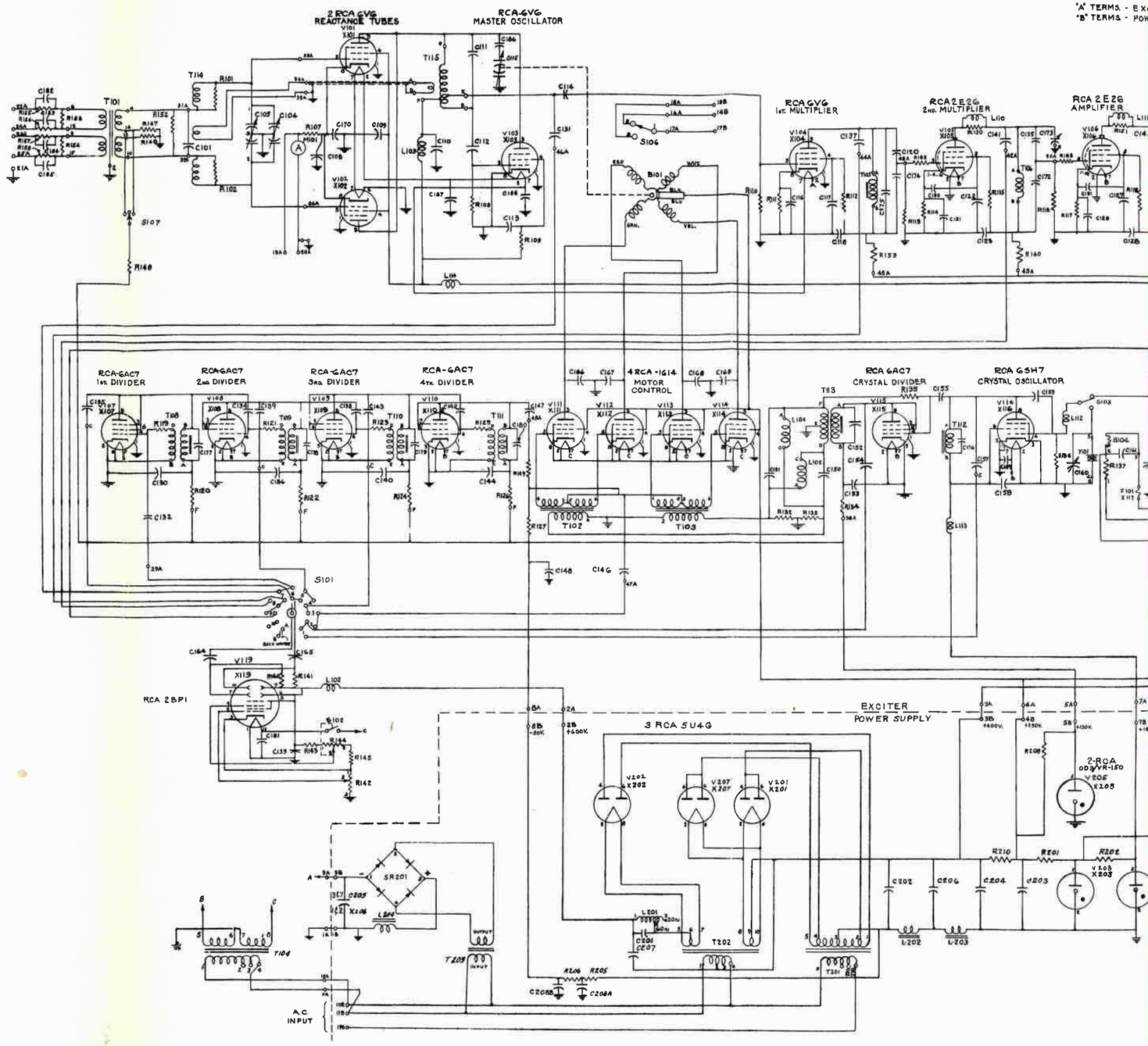


Figure 89 - Schematic Diagram, Exciter an
Exciter Power Supply - Aural (308424-sub

SYMBOL		
PICTURE	SOUND	NAME & FUNCTION
K601	K801	DRIVER H.V. GROUNDING SWITCH
K602	K802	BIAS INTERLOCK
K603	K803	SURGE RELAY
K604	K804	P.A. H.V. GROUNDING SWITCH
K410	K410	AIR & WATER CONTACTOR
K411	K425	FILAMENTS, FANS & BLOWER CONTACTOR
K412	K429	PLATE TIME DELAY RELAY
K413 A&B	K415 A&B	PLATE START - STOP - CONTACTOR
K414		OVERLOAD RELAY - MODULATOR
K415	K448	OVERLOAD RELAY - DRIVER
K416	K442	OVERLOAD RELAY - P.A. PLATE (DC)
K417	K433	BIAS CONTACTOR
K418	K434	PLATE CONTACTOR
K419	K435	SURGE T.D. RELAY
K420	K436	OVERLOAD RELAY P.A. PLATE PRI. (AC)
K421	K437	AUTOMATIC OVERLOAD RESET T.D. RELAY
K422 A&B	K438 A&B	OVERLOAD NOTCH RELAY
K423	K439	NOTCH RELAY AUXILARY CONTACTOR
K424	K440	OVERLOAD HESITATING T.D. RELAY
K425	K441	POWER INTERRUPTION HOLD-ON T.D. RELAY
K426		OVERLOAD RELAY - P.A. SCREEN
K427	K432	OVERLOAD RELAY - P.A. PLATE - (AC)
K430	K431	OVERLOAD RELAY: REFLECTOMETER
K444	K445	WATER INTERLOCK AUXILARY CONTACTOR
K446	K201	P.A. SCREEN
K501		MODULATOR H.V. GROUNDING SWITCH
K601		P.A. BIAS INTERLOCK
K602		P.A. GRID LEAK INTERLOCK
R403	R403	PROTECTIVE RESISTOR 100,000 OHMS
S810	S113	WATER TEMPERATURE INTERLOCK
	S114	ANODE WATER INTERLOCK
S705	S203	CATH., GRID, SCREEN WATER INTERLOCK
S404	S404	TRANSMITTER START
S405	S419	FILAMENT SWITCH
S406	S406	PLATE POWER ON
S407	S407	PLATE POWER OFF
S415	S415	OVERLOAD MULTIPLE - SINGLE TRIP SWITCH
S418	S418	OVERLOAD RESET SWITCH
S420	S420	DOOR INTERLOCK (CONTROL PANEL)
S807		ANODES & GRID RES. WATER INTERLOCK
S1001	S1001	R.F. LOAD OVER TEMP. I.L.
S1107	S1107	TRANSMITTER START (CONSOLE)
S1108	S1108	OVERLOAD RESET SWITCH
S1109	S1109	PLATE POWER ON
S1110	S1110	PLATE POWER OFF
T401	T401	CONTROL CIRCUIT ISOLATION TRANS.

HIGH FREQUENCY DRIVE

B708	B208	DRIVER BLOWER
S716	S216	AIR INTERLOCK (DRIVER BLOWER)
T711	T211	FILAMENT TRANSFORMER H.F. DRIVER

PICTURE

SOUND

CONTROL CONSOLE SWITCH

PIX. PA. FIL. M401

R401

TO PICTURE PLATE PRI. K406

STEP-START T.D. K419

TO SOUND PLATE PRI. K409

STEP-START T.D. K435

TO FIL. CIRCUIT

DOOR INTERLOCKS

DUMMY LOAD CUSTOMERS OPTION EXTERNAL UNIT

TO FAN & BLOWER CIRCUIT

4-X-500-A FILS.

FIL. CIRCUIT 208/230 VOLT

IN HIGH FREQUENCY CIRCUIT ONLY

COMMON

T401

K-402

120/230 VOLT

NORMALLY OPEN CONTACT

NORMALLY CLOSED CONTACT

CONNECTION

NO CONNECTION

FRAME (4) TERMINAL BOARD (E) TERMINAL (12)

CONTACTOR OR RELAY ONE NORMALLY OPEN, TWO NORMALLY CLOSED CONTACTS.

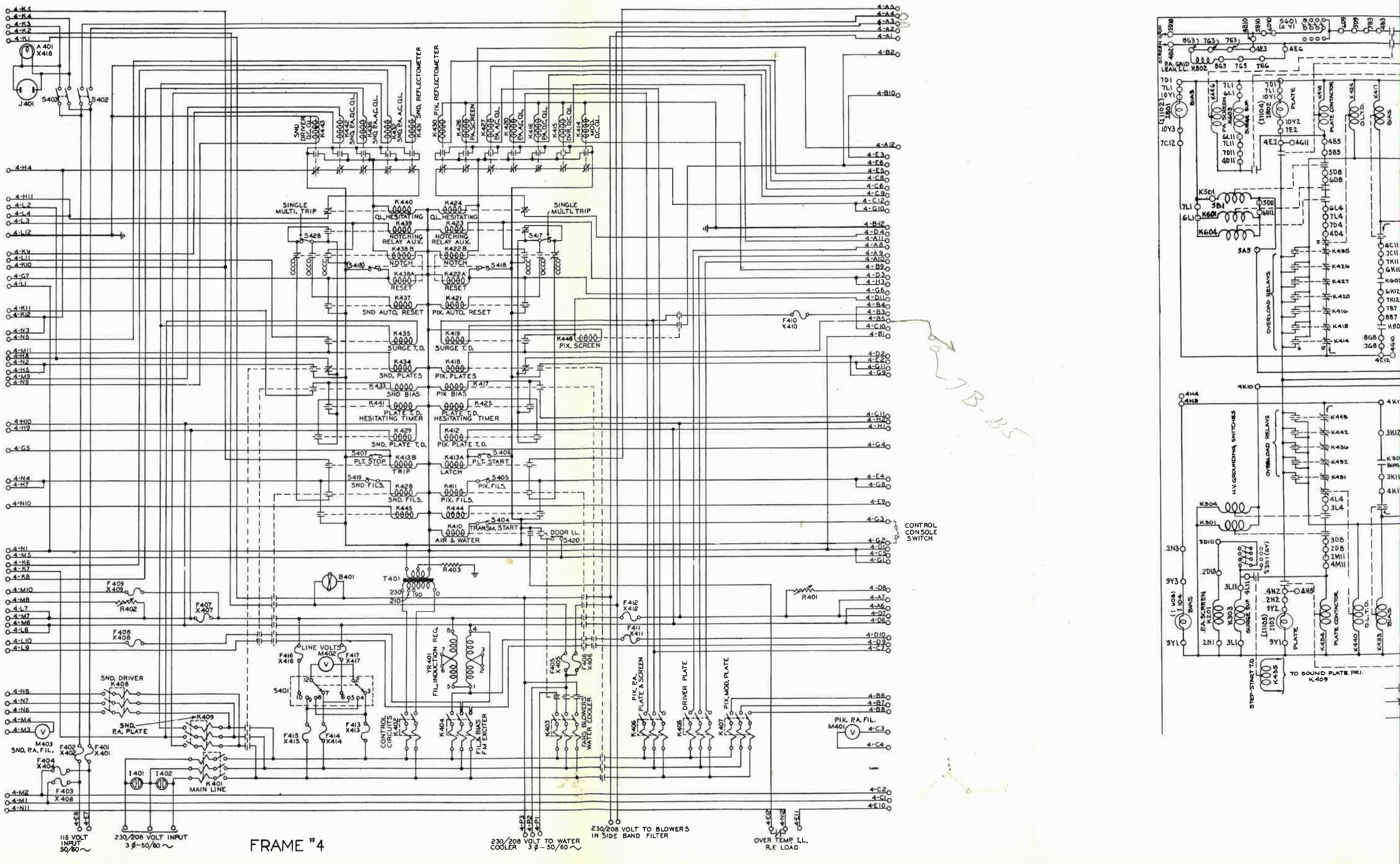
NOTE: SEE THE FOLLOWING DRAWINGS FOR COMPLETE DETAILS OF THE CONTROL & POWER DISTRIBUTION CIRCUITS.
CONTROL FRAME SCHEMATIC - W-308881.
TRANSMITTER SCHEMATIC (L.F.) SOUND W-308879, PIX W-308880.
TRANSMITTER SCHEMATIC (H.F.) SOUND W-308882, PIX W-308883.

AC MAIN LINE 208/230 V. 3 Ø 60 ~

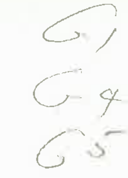
CONTROL CIRCUIT K402 | AIR & WATER K403 | FILAMENTS K404 | PICTURE DRIVER K405 | PICTURE PA. K406 | PICTURE MODULATOR K407 | SOUND DRIVER K408 | SOUND P.A. K409

K401 | K418 | K484

Figure 90 - Schematic Diagram, Control Ladder - Visual and Aural (619056-sub 2) and Transmitter Control Circuits (308881-sub 1) 223,224



FRAME #4
115 VOLT INPUT 50/60~
230/208 VOLT INPUT 3 φ-50/60~
230/208 VOLT TO WATER COOLER 3 φ-50/60~
230/208 VOLT TO BLOWERS IN SIDE BAND FILTER
OVER TEMP. I.L. R.F. LOAD
CONTROL CONSOLE SWITCH
SND. DRIVER K408
SND. P.A. PLATE
K401 MAIN LINE
PIX. P.A. FIL. M401
FIL. INDUCTION REG.
CONTROL CIRCUITS
FANS BLOWERS WATER COOLER
PIX. P.A. PLATE & SCREEN
DRIVER PLATE
PIX. MOD. PLATE
SINGLE MULTI. TRIP
OVERLOAD RELAYS
H.V. GROUNDING SWITCHES
TO SOUND PLATE PRI. K409



G1
G4
G5

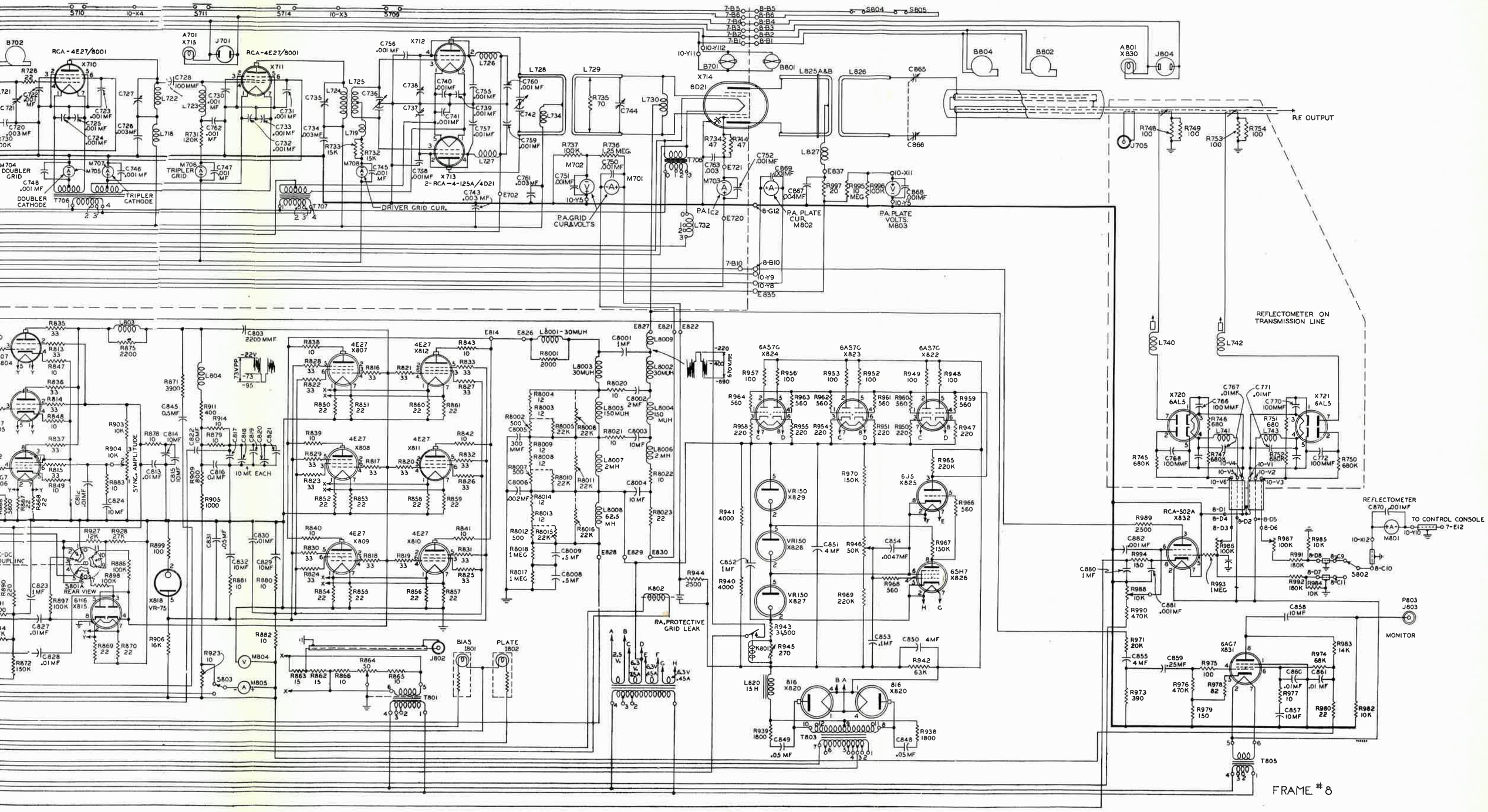
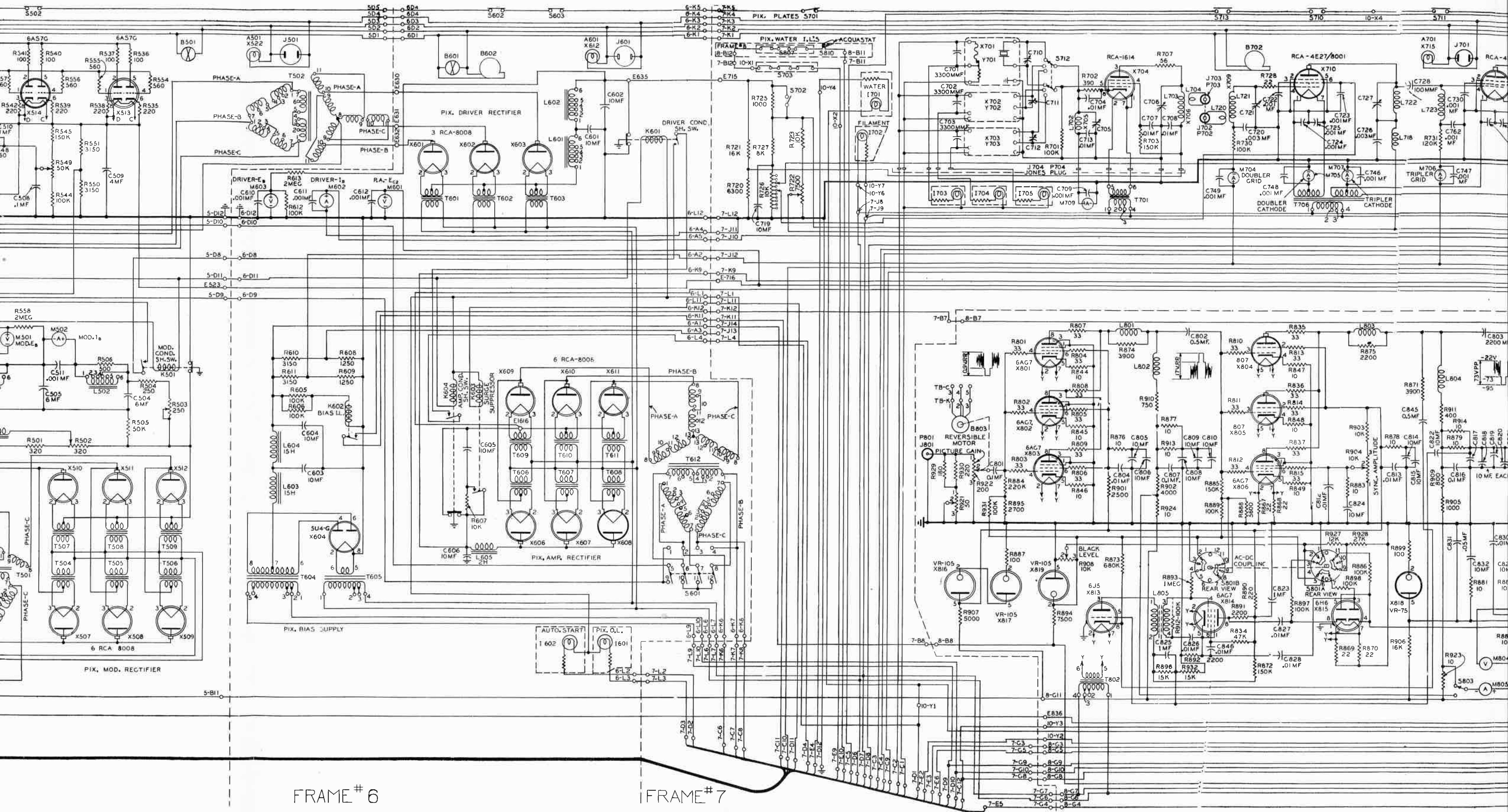
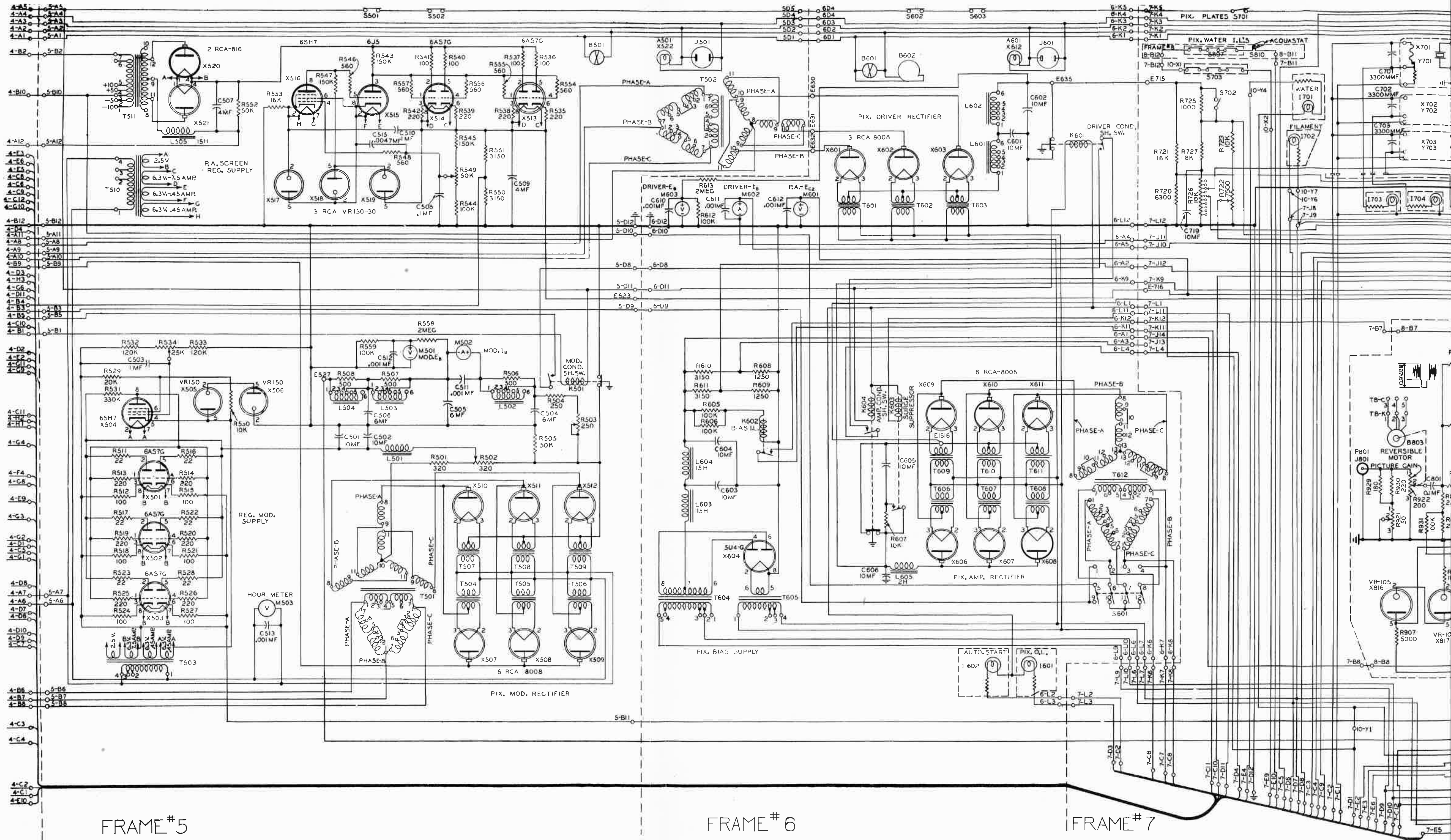


Figure 91 - Schematic Diagram, Channels 2 to 6, Transmitter Visual Section (308880-sub 0)



PIX. MOD. RECTIFIER
6 RCA 8008
PIX. DRIVER RECTIFIER
3 RCA-8008
PIX. BIAS SUPPLY
6 RCA-8008
PIX. AMP. RECTIFIER
PIX. PLATES S701
PIX. WATER I.L.'S
ACQUASTAT
WATER
FILAMENT
JONES PLUG
DOUBLER GRID
DOUBLER CATHODE
TRIPLER GRID
TRIPLER CATHODE
RCA-1614
RCA-4E27/8001
REVERSIBLE MOTOR
PICTURE GAIN
BLACK LEVEL
AC-DC COUPLING
REAR VIEW
SYNC. AMPLITUDE
AUTO. START
PIX. O.L.
DRIVER COND. SH. SW.
MOD. COND. SH. SW.
SURGE SUPPRESSOR
FRAME # 6
FRAME # 7



PIX. PLATES S701
PIX. WATER I.L.'S
ACQUASTAT
WATER I701
FILAMENT I702
2 RCA-816
P.A. SCREEN REG. SUPPLY
3 RCA VR150-30
PIX. DRIVER RECTIFIER
3 RCA-8008
DRIVER COND. SH. SW.
MOD. COND. SH. SW.
HOUR METER
REG. MOD. SUPPLY
6 RCA 8008
PIX. MOD. RECTIFIER
6 RCA-8008
PIX. AMP. RECTIFIER
PIX. BIAS SUPPLY
SURGE SUPPRESSOR
AMP. COND. SH. SW.
BIAS I.L.
AUTO. START
PIX. O.L.
REVERSIBLE MOTOR
PICTURE GAIN
FRAME#5
FRAME#6
FRAME#7

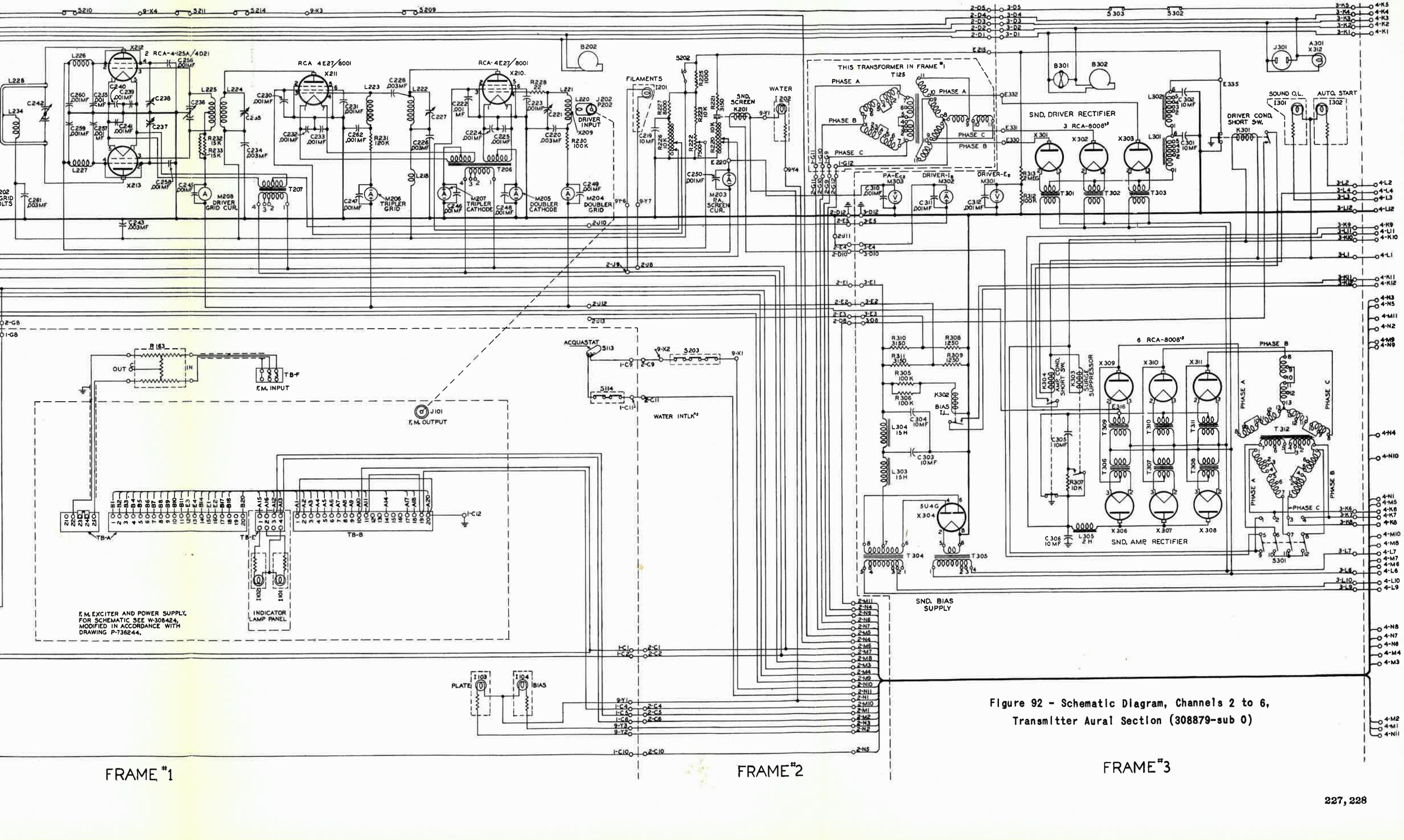
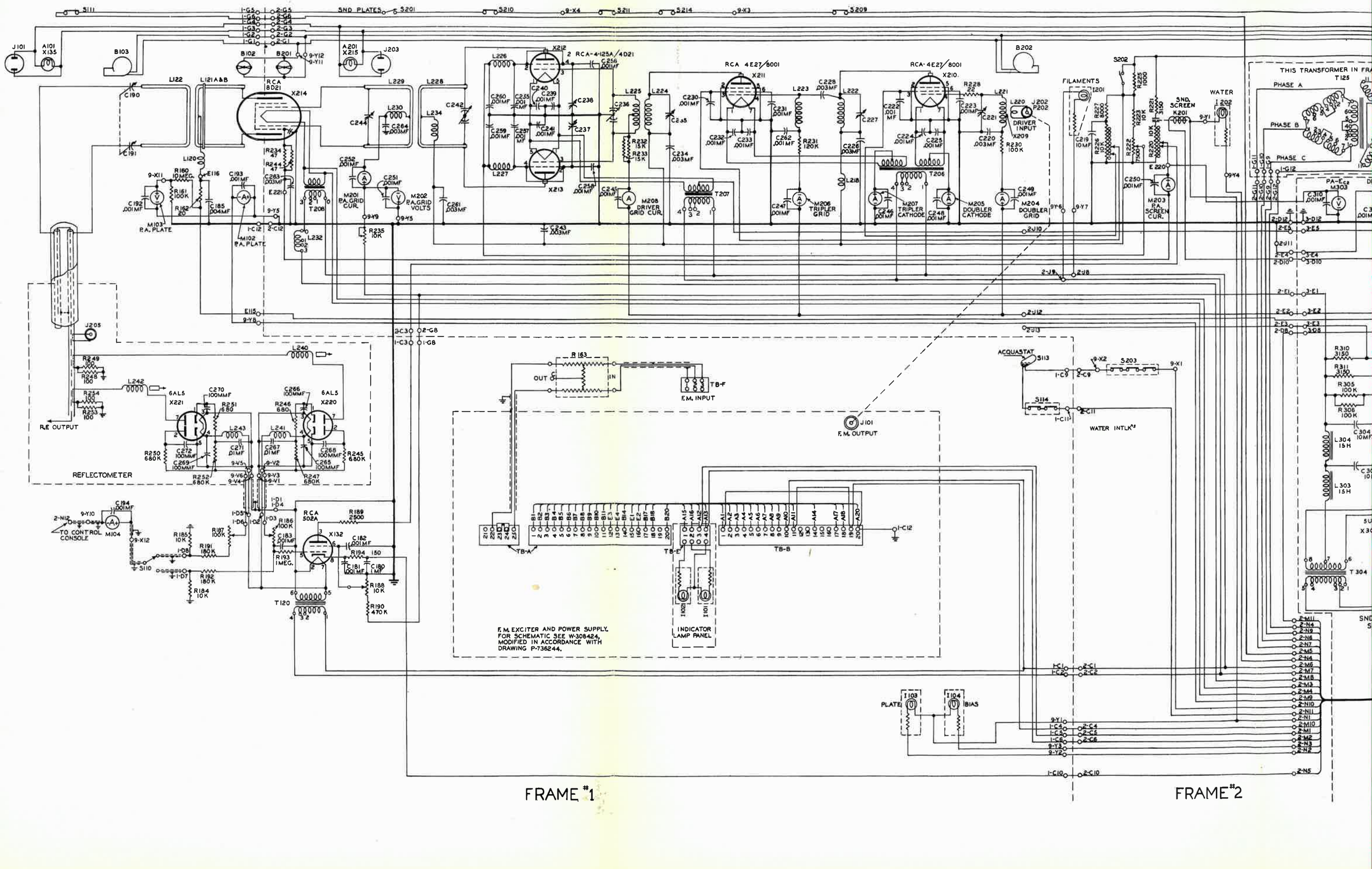


Figure 92 - Schematic Diagram, Channels 2 to 6, Transmitter Aural Section (308879-sub 0)


FRAME #1
FRAME #2
REFLECTOMETER
F.M. EXCITER AND POWER SUPPLY. FOR SCHEMATIC SEE W-308424, MODIFIED IN ACCORDANCE WITH DRAWING P-736244.
INDICATOR LAMP PANEL
TO CONTROL CONSOLE
R.F. OUTPUT
F.M. INPUT
F.M. OUTPUT
WATER INTLK
ACQUASTAT
FILAMENTS
SND. SCREEN
DRIVER INPUT
PA GRID CUR.
PA GRID VOLTS
PA PLATE
PA SCREEN CUR.
DRIVER GRID CUR.
TRIPLER GRID
TRIPLER CATHODE
DOUBLER CATHODE
DOUBLER GRID
PLATE
BIAS
WATER
SND PLATES
RCA 4E27/8001
RCA-4E27/8001
RCA 8D21
RCA 4-125A/4D21
RCA 502A
6AL5
THIS TRANSFORMER IN FRA
PHASE A
PHASE B
PHASE C

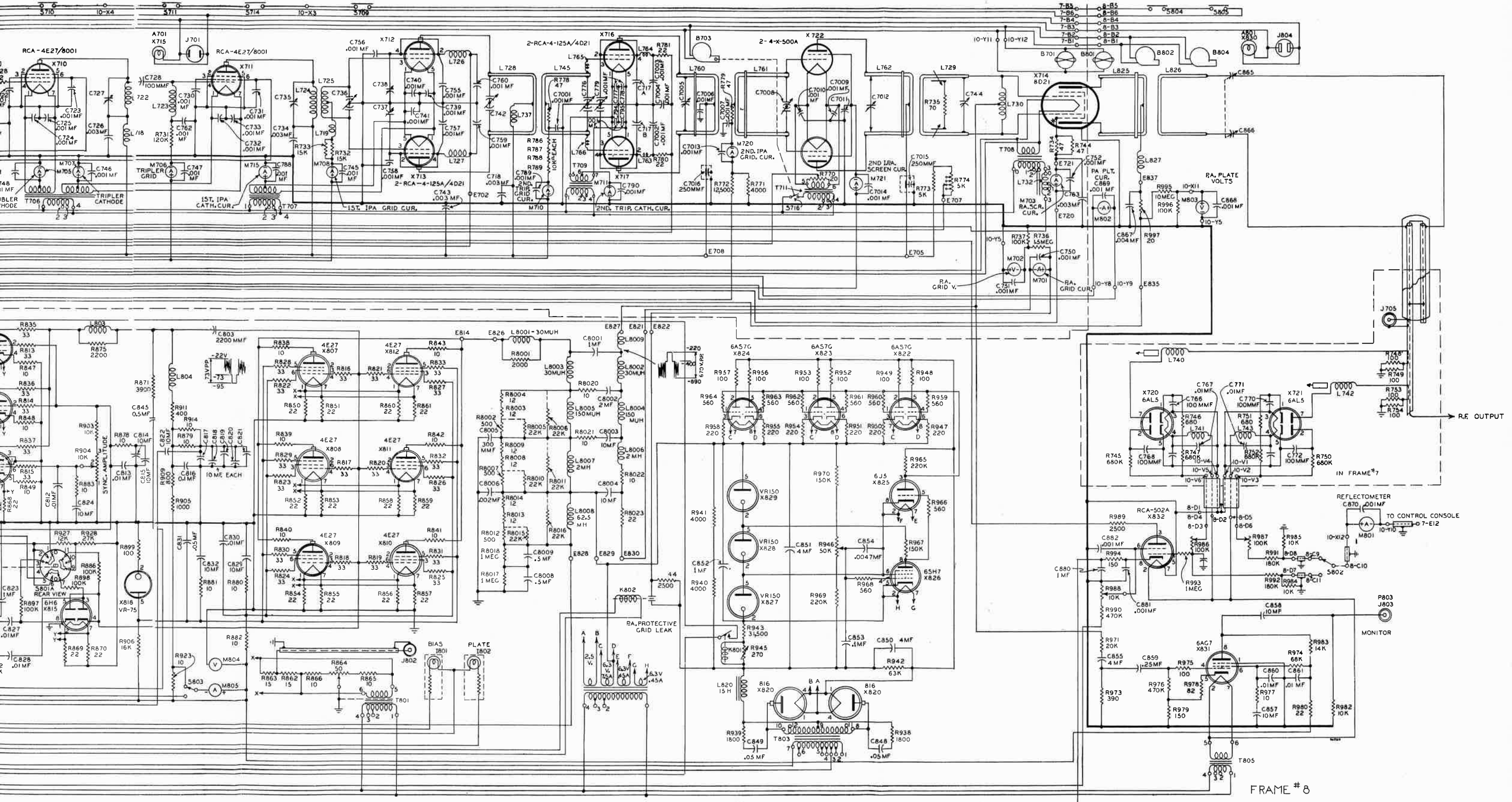
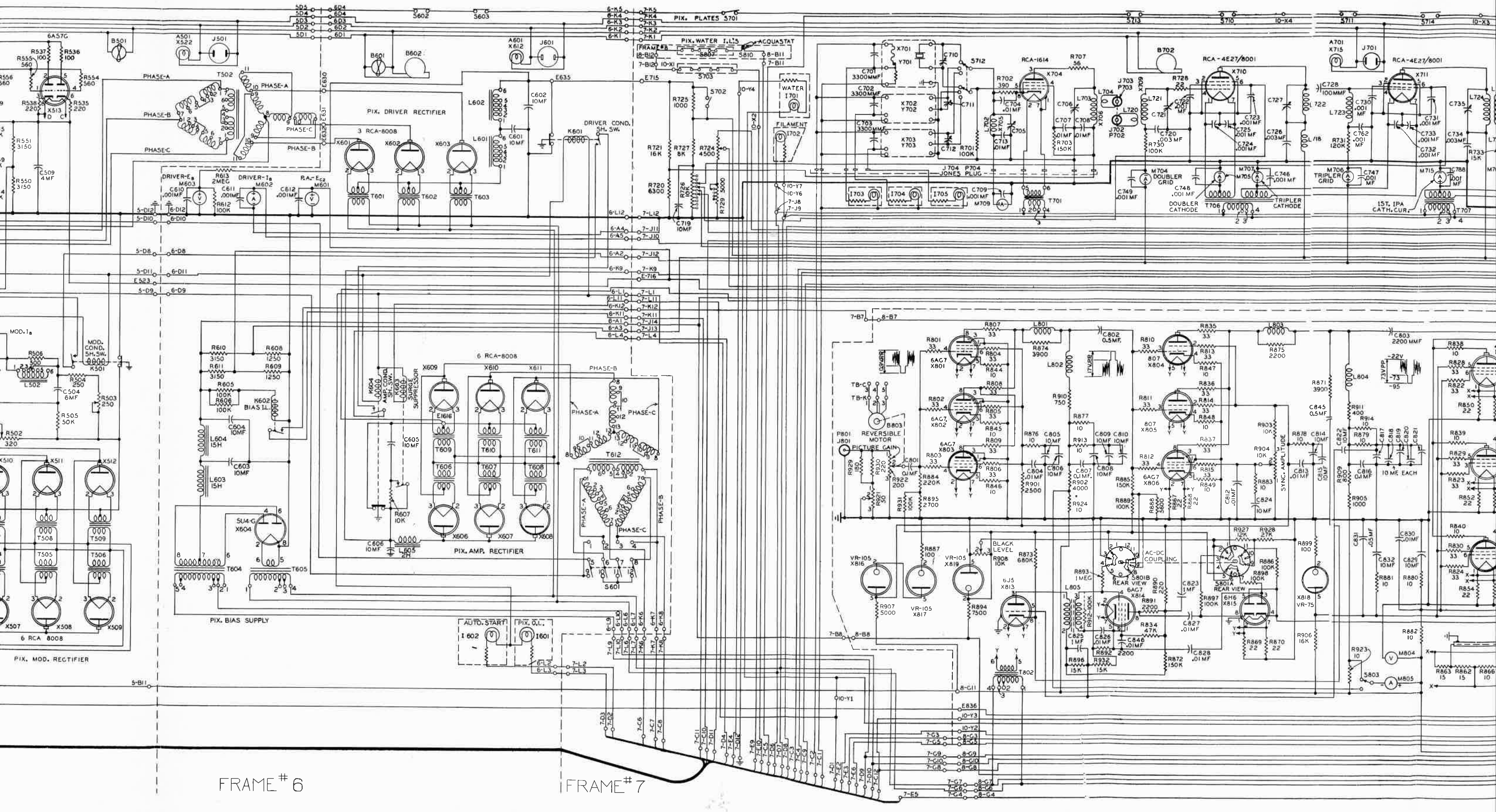
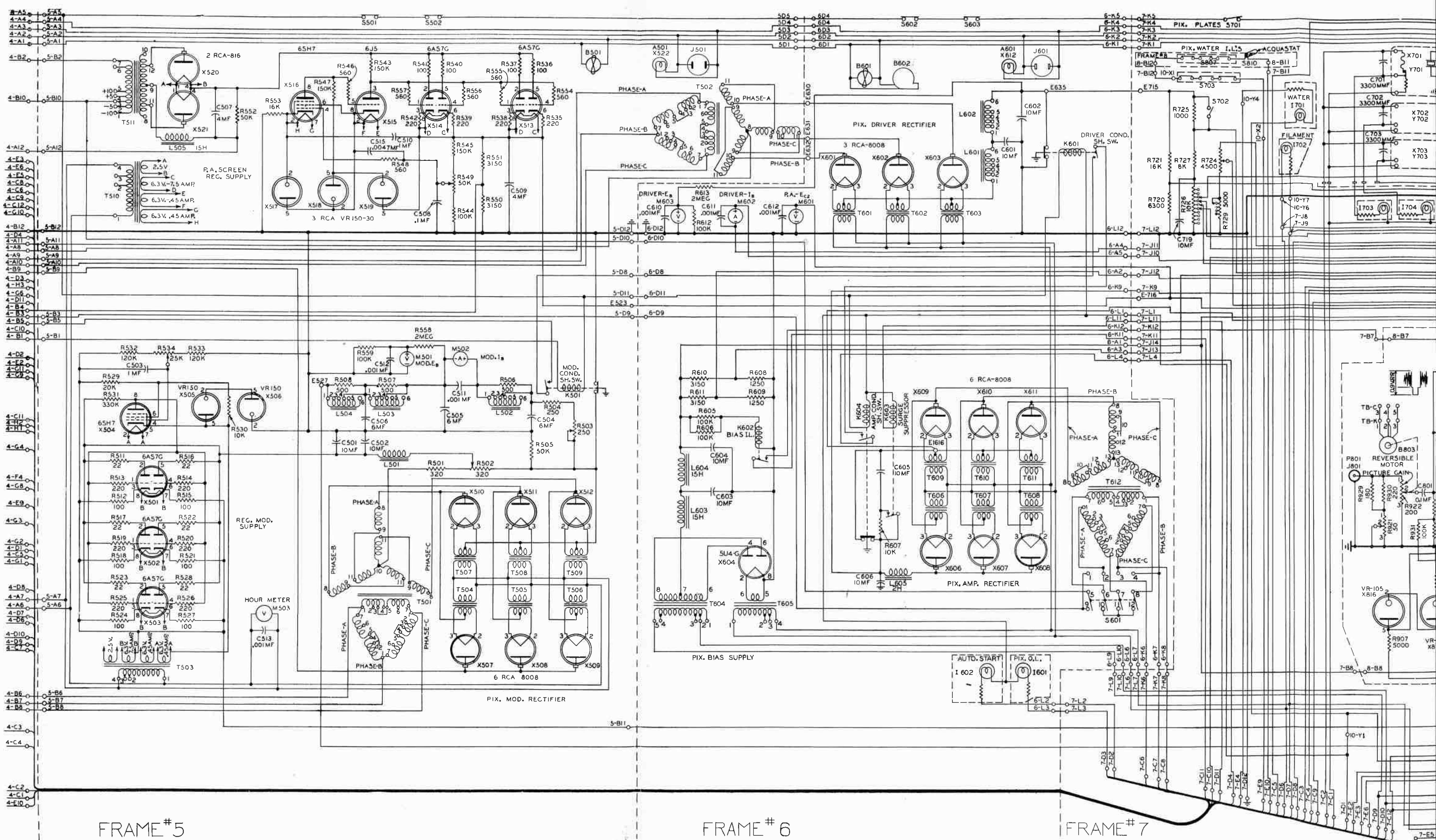


Figure 93 - Schematic Diagram, Channels 7 to 13, Transmitter Visual Section (308883-sub 0)



PIX. PLATES S701
PIX. WATER I.L.'S
ACQUASTAT
PIX. DRIVER RECTIFIER
3 RCA-8008
DRIVER COND. SH. SW.
MOD. COND. SH. SW.
6A57G
PHASE-A
PHASE-B
PHASE-C
DRIVER-E_B
DRIVER-I_B
RA.-E_{C2}
MOD. I_B
6 RCA-8008
PIX. AMP. RECTIFIER
AMP. COND. SH. SW.
SURGE SUPPRESSOR
BIAS I.L.
5U4-G X604
PIX. BIAS SUPPLY
6 RCA 8008
PIX. MOD. RECTIFIER
AUTO. START
PIX. O.L.
WATER
FILAMENT
RCA-1614
RCA-4E27/8001
JONES PLUG
DOUBLER GRID
DOUBLER CATHODE
TRIPLER CATHODE
TRIPLER GRID
1ST. IPA CATH. CUR.
REVERSIBLE MOTOR
PICTURE GAIN
BLACK LEVEL
AC-DC COUPLING
REAR VIEW
SYNC. AMPLITUDE
10 MF EACH
FRAME # 6
FRAME # 7



2 RCA-816
P.A. SCREEN REG. SUPPLY
3 RCA VR150-30
REG. MOD. SUPPLY
HOUR METER M503
PIX. MOD. RECTIFIER
6 RCA 8008
MOD. COND. SH. SW.
PIX. DRIVER RECTIFIER
3 RCA-8008
DRIVER COND. SH. SW.
PIX. BIAS SUPPLY
BIAS I.L.
6 RCA-8008
PIX. AMP. RECTIFIER
SURGE SUPPRESSOR
AUTO. START
PIX. O.L.
PIX. PLATES S701
PIX. WATER I.L.'S
ACQUASTAT
WATER
FILAMENT
REVERSIBLE MOTOR
PICTURE GAIN
PHASE-A
PHASE-B
PHASE-C
FRAME#5
FRAME#6
FRAME#7

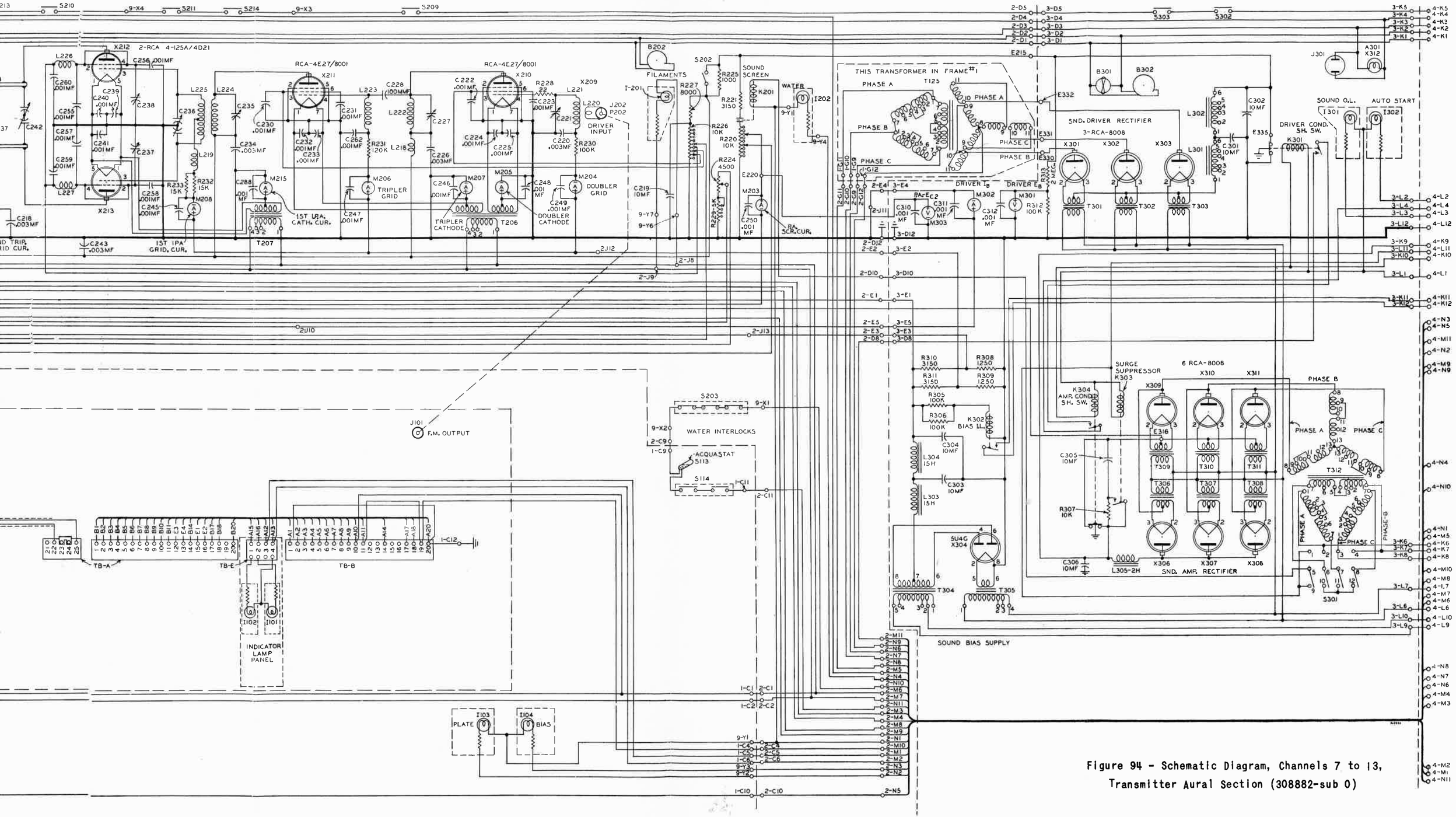
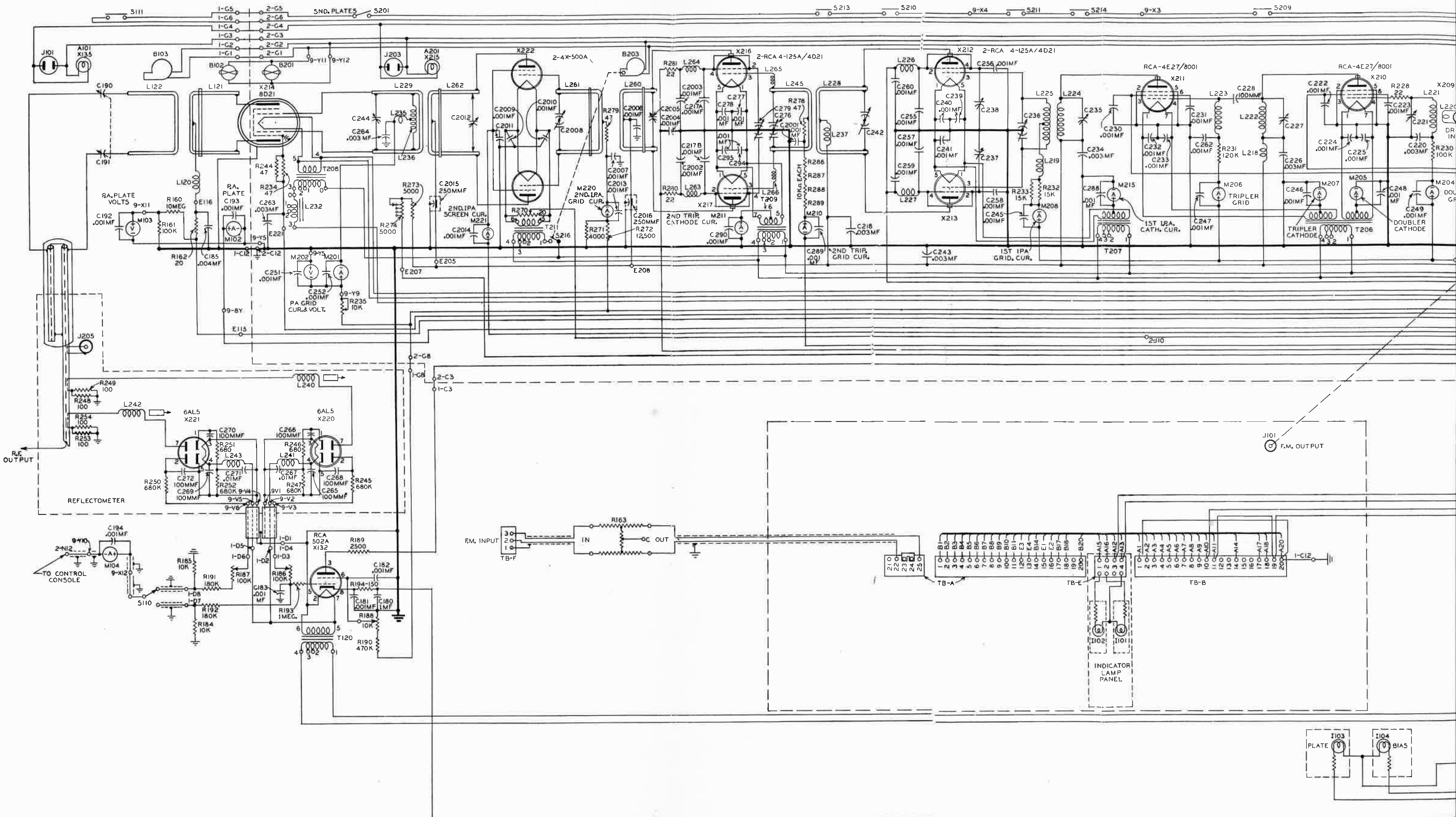


Figure 94 - Schematic Diagram, Channels 7 to 13, Transmitter Aural Section (308882-sub 0)



S111
SND. PLATES
S201
S213
S210
S211
S214
S209
J101
A101
X135
B103
B102
B201
J203
A201
X215
B203
2-4X-500A
X222
2-RCA 4-125A/4D21
X216
X212
2-RCA 4-125A/4D21
RCA-4E27/8001
X211
RCA-4E27/8001
X210
X214
8D21
R.A. PLATE VOLTS
P.A. PLATE
2ND. I.P.A. SCREEN CUR.
M220 2ND. I.P.A. GRID CUR.
2ND TRIP. CATHODE CUR.
2ND TRIP. GRID CUR.
1ST I.P.A. GRID. CUR.
1ST I.P.A. CATH. CUR.
TRIPLER GRID
TRIPLER CATHODE
DOUBLER CATHODE
PA GRID CUR. & VOLT.
10K EACH
X217
X213
R.F. OUTPUT
J205
6AL5
X221
6AL5
X220
REFLECTOMETER
TO CONTROL CONSOLE
S110
RCA 502A
X132
T120
F.M. INPUT
TB-F
R163
IN
OUT
TB-A
TB-E
TB-B
J101
F.M. OUTPUT
INDICATOR LAMP PANEL
I102
I101
PLATE
I103
I104
BIAS