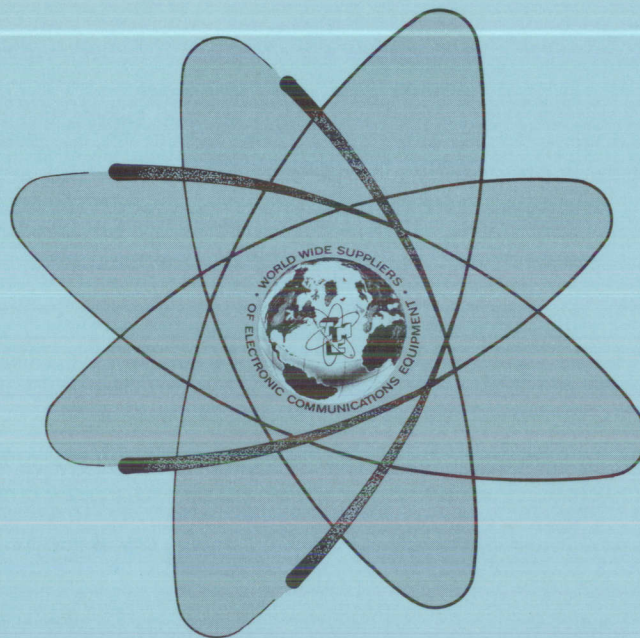


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TECHNICAL MANUAL
for

LINEAR POWER AMPLIFIER
MODEL HFLA-10K
VOLUME 2



THE TECHNICAL MATERIEL CORPORATION
MAMARONECK, N.Y.

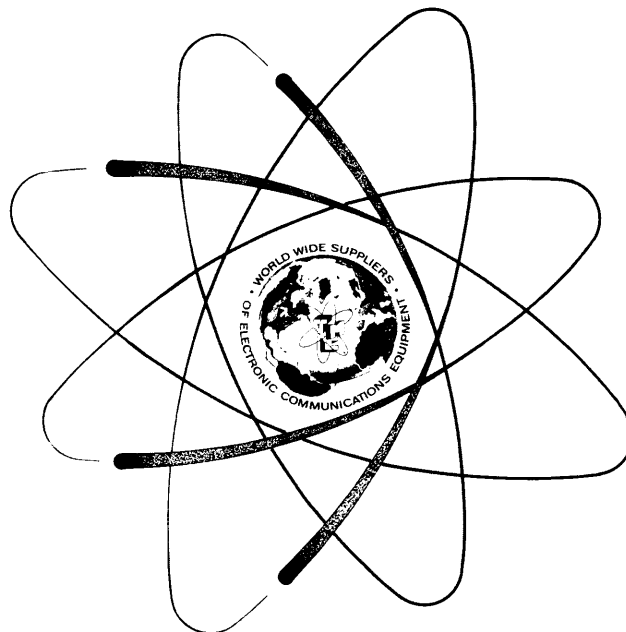
OTTAWA, ONTARIO

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TECHNICAL MANUAL
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LINEAR POWER AMPLIFIER
MODEL HFLA-10K
VOLUME 2



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MAMARONECK, N.Y. OTTAWA, ONTARIO

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NOTICE

THE CONTENTS AND INFORMATION CONTAINED IN THIS INSTRUCTION MANUAL IS PROPRIETARY TO THE TECHNICAL MATERIEL CORPORATION TO BE USED AS A GUIDE TO THE OPERATION AND MAINTENANCE OF THE EQUIPMENT FOR WHICH THE MANUAL IS ISSUED AND MAY NOT BE DUPLICATED EITHER IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER WITHOUT THE WRITTEN CONSENT OF THE TECHNICAL MATERIEL CORPORATION.



THE TECHNICAL MATERIEL CORPORATION

C O M M U N I C A T I O N S E N G I N E E R S

700 FENIMORE ROAD

MAMARONECK, N. Y.

W a r r a n t y

The Technical Materiel Corporation, hereinafter referred to as TMC, warrants the equipment (except electron tubes, *fuses, lamps, batteries and articles made of glass or other fragile or other expendable materials) purchased hereunder to be free from defect in materials and workmanship under normal use and service, when used for the purposes for which the same is designed, for a period of one year from the date of delivery F.O.B. factory. TMC further warrants that the equipment will perform in a manner equal to or better than published technical specifications as amended by any additions or corrections thereto accompanying the formal equipment offer.

TMC will replace or repair any such defective items, F.O.B. factory, which may fail within the stated warranty period, PROVIDED:

1. That any claim of defect under this warranty is made within sixty (60) days after discovery thereof and that inspection by TMC, if required, indicates the validity of such claim to TMC's satisfaction.
2. That the defect is not the result of damage incurred in shipment from or to the factory.
3. That the equipment has not been altered in any way either as to design or use whether by replacement parts not supplied or approved by TMC, or otherwise.
4. That any equipment or accessories furnished but not manufactured by TMC, or not of TMC design shall be subject only to such adjustments as TMC may obtain from the supplier thereof.

Electron tubes furnished by TMC, but manufactured by others, bear only the warranty given by such other manufacturers. Electron tube warranty claims should be made directly to the manufacturer of such tubes.

TMC's obligation under this warranty is limited to the repair or replacement of defective parts with the exceptions noted above.

At TMC's option any defective part or equipment which fails within the warranty period shall be returned to TMC's factory for inspection, properly packed with shipping charges prepaid. No parts or equipment shall be returned to TMC, unless a return authorization is issued by TMC.

No warranties, express or implied, other than those specifically set forth herein shall be applicable to any equipment manufactured or furnished by TMC and the foregoing warranty shall constitute the Buyers sole right and remedy. In no event does TMC assume any liability for consequential damages, or for loss, damage or expense directly or indirectly arising from the use of TMC Products, or any inability to use them either separately or in combination with other equipment or materials or from any other cause.

*Electron tubes also include semi-conductor devices.

PROCEDURE FOR RETURN OF MATERIAL OR EQUIPMENT

Should it be necessary to return equipment or material for repair or replacement, whether within warranty or otherwise, a return authorization must be obtained from TMC prior to shipment. The request for return authorization should include the following information:

1. Model Number of Equipment.
2. Serial Number of Equipment.
3. TMC Part Number.
4. Nature of defect or cause of failure.
5. The contract or purchase order under which equipment was delivered.

PROCEDURE FOR ORDERING REPLACEMENT PARTS

When ordering replacement parts, the following information must be included in the order as applicable:

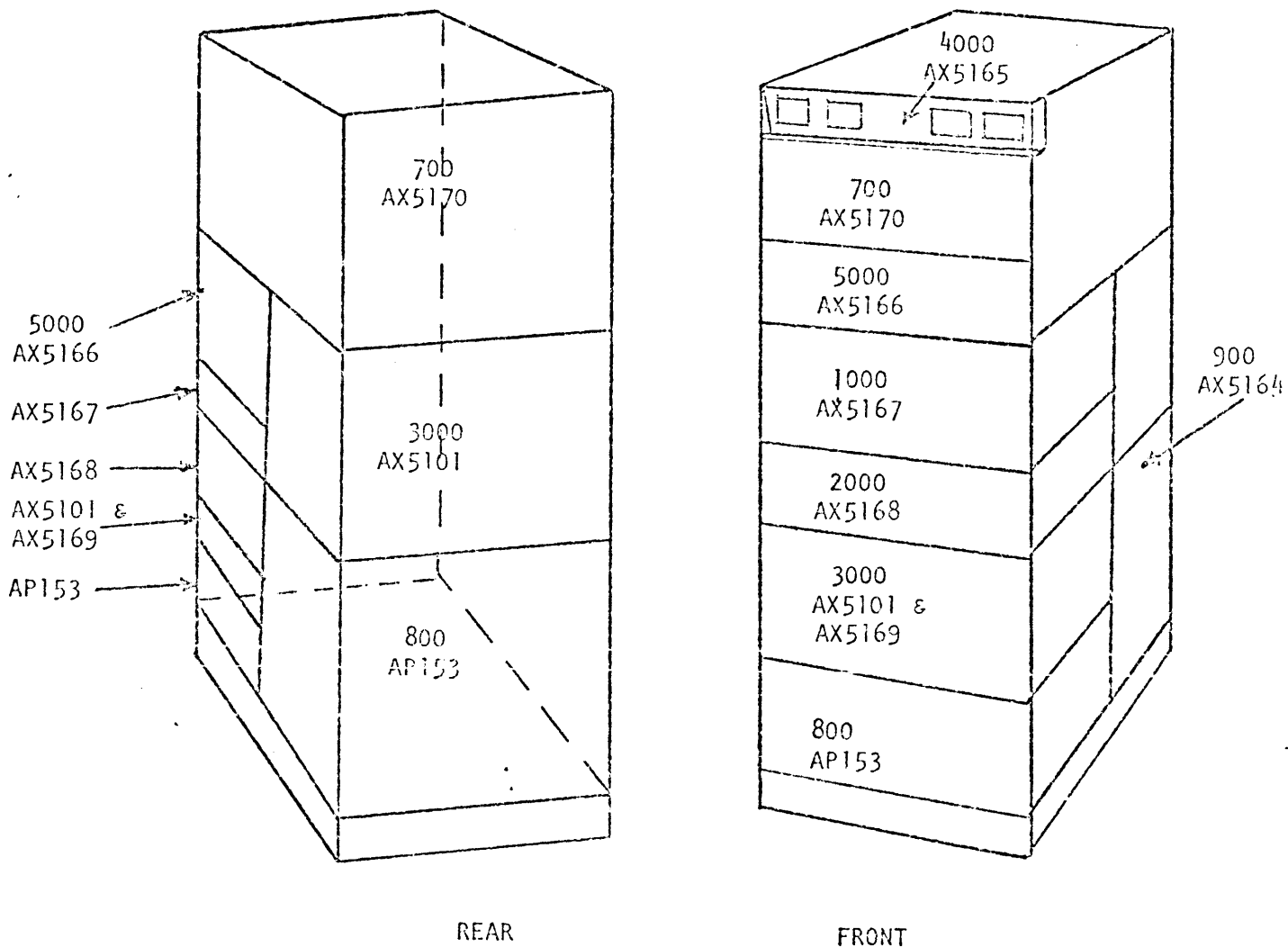
1. Quantity Required.
2. TMC Part Number.
3. Equipment in which used by TMC or Military Model Number.
4. Brief Description of the Item.
5. The *Crystal Frequency* if the order includes crystals.

PROCEDURE IN THE EVENT OF DAMAGE INCURRED IN SHIPMENT

TMC's Warranty specifically excludes damage incurred in shipment to or from the factory. In the event equipment is received in damaged condition, the carrier should be notified immediately. Claims for such damage should be filed with the carrier involved and not with TMC.

All correspondence pertaining to Warranty Claims, return, repair, or replacement and all material or equipment returned for repair or replacement, within Warranty or otherwise, should be addressed as follows:

THE TECHNICAL MATERIEL CORPORATION
Engineering Services Department
700 Fenimore Road
Mamaroneck, New York



ASSEMBLY NO.	NAME	SYMBOL SERIES
AX5170	PA SECTION	700
AP153	POWER SUPPLY	800
AX5164	MAIN FRAME SUB ASSY	900
AX5167	IPA DRAWER	1000
AX5168	EXCITER DRAWER	2000
AX5101	INPUT CHASSIS	3000
AX5169	MAIN POWER PANEL ASSY	3000
AX5165	METER PANEL	4000
AX5166	MAIN CONTROL PANEL	5000

Figure 6-1. Assembly location Drawing HFL()-10K

SECTION 6
PARTS LIST

6-1. INTRODUCTION

The parts list presented in this section is a cross-reference list of parts identified by a reference designation and TMC part number. In most cases, parts appearing on schematic diagrams are assigned reference designations in accordance with MIL-STD-16. Wherever practicable, the reference designation is marked on the equipment, close to the part it identifies. In most cases, mechanical and electro-mechanical parts have TMC part numbers stamped on them.

To expedite delivery when ordering any part, specify the following:

- a. Reference symbol.
- b. Description as indicated in parts list.
- c. TMC part number.
- d. Model and serial numbers of the equipment containing the part being replaced; this can be obtained from the equipment nameplate.

For replacement parts not covered by warranty (refer to warranty sheet in front of manual), address all purchase orders to:

The Technical Materiel Corporation
Attention: Sales Department
700 Fenimore Road
Mamaroneck, New York 10543

NOTE

The parts list in this section applies to all HFL()-10K/REV A series linear amplifiers. When using the parts list, particular attention should be paid to "Reference Notes". These notes are used to identify parts which are peculiar to a particular linear amplifier, i.e. HFLA-10K (automated linear amplifier), HFLM-10K (manual linear amplifier). The reference notes are listed as follows:

Reference Note

Description

- | | |
|---|--|
| 1 | All items referenced to this note are supported by a parts breakdown provided on a separate list. |
| 2 | All items referenced to this note are used <u>only</u> on automated equipment, i.e. HFLA-10K linear amplifier. |
| 3 | All items referenced to this note are used <u>only</u> on manual equipment, i.e. HFLM-10K linear amplifier. |
| 4 | All items referenced to this note are customer options. |
| 5 | All items referenced to this note are nominal values. |

POWER AMPLIFIER SECTION

SYMBOL SERIES 700

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
A701	PA Sense Board Assembly (Ref Notes 1, 2)	A-4835
A702	Tune Capacitor Assembly (Ref Note 1)	AX5171
A703	Load Capacitor Assembly (Ref Note 1)	AX5172
A704	Bandswitch Assembly (Ref Note 1)	AS163
A705	Remote Power Assembly (Ref Note 1)	AX5173
A706	Harmonic Filter Assembly (Ref Notes 1, 4)	AF110
A707	ALDC Assembly (Ref Note 1)	A-4856
A708	ALDC Printed Circuit Board Assembly (Ref Note 1)	A-4850-3
B701	Fan, Axial	BL105
C701 thru C703	Capacitor, Fixed, Ceramic	CC109-38
C704 thru C709	Capacitor, Fixed, Ceramic	CC109-36
C710	Capacitor, Fixed, Ceramic	CC100-32
C711	Capacitor, Fixed, Ceramic	CK70AW102M
C712	Same as C711	
C713 thru C715	Capacitor, Fixed, Ceramic	CC115-2-6800
C716 thru C719	Capacitor, Fixed, Ceramic	CC109-19
C720	Capacitor, Fixed, Ceramic	CC109-28
C721	Same as C720	
C722 thru C727	Capacitor, Fixed, Ceramic (Ref Note 2)	CC109-6
C728	Same as C720	
C729	Same as C720	
C730 thru C732	Capacitor, Fixed, Ceramic	CC120-202-A25
C733 thru C736	Capacitor, Fixed, Ceramic	CC100-28
C737	Same as C704	
C738	Same as C704	
C739	Same as C730	
C740	Capacitor, Fixed, Mica	CM15C050J03YY
C741	Capacitor, Fixed, Mica	CM15C180J03YY
C742 thru C747	Same as C733	

AX5170

POWER AMPLIFIER SECTION (cont)

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
C748	Not Used	
C749	Not Used	
C750	Capacitor, Fixed, Electrolytic	CP41B1EF405K
CR701	Detector Element	DD119-10
CR702	Detector Element	DD119-9
DC701	Directional Coupler	DC104-3
E701	Insulated Bowl	NS112-2
E702	Insulated Standoff	NS3W0108
E703	Contact Feed-thru	AX707
E704	Same as E703	
E705	Not Used	
E706	Not Used	
E707	Terminal Turret	TE102-2
E708	Insulated Feed-thru (Ref Note 2)	TE169-4
thru E710		
E711	Insulated Feed-thru	TE101-3
E712	Insulated Standoff	NS3W0320
E713	Not Used	
E714	Same as E707	
thru E717		
F701	Fuse, Cartridge	FU102-.5
J701	Connector, Receptacle, RF	UG560/U
J702	P/O DC701	
J703	P/O DC701	
J704	Connector, Receptacle, Male 24/C	MS3102A24-28P
J705	Not Used	
J706	Connector, Receptacle, Female 4/C	MS3102A14S-2S
L701	Coil, RF, Fixed	CL178
L702	Coil, RF, Fixed	CL100-5
L703	Coil, Filament	CL444
L704	Coil, RF, Fixed	CL166
L705	Same as L704	
L706	Coil, RF, Fixed	CL442
L707	Coil, Output Assembly	CL443
L708	Coil, RF, Fixed	CL240-120
L709	Same as L708	
L710	Not Used	
L711	Same as L701	

AX5170

POWER AMPLIFIER SECTION (cont)

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
P701	Connector, Plug, RF	PL254
P702	Same as P701	
P703	Plug, Tip	PL163-2
P704	Connector, Plug, Male 4/C	MS3106A14S-2P
R701	Resistor, Fixed, Composition	RC42GF471J
R702	Resistor, Fixed, Composition (Ref Note 2)	RC32GF221J
R703	Resistor, Fixed, Composition (Ref Note 2)	RC32GF471J
S701	Thermo Switch	SS104-2
T701	Transformer, RF (Ref Note 2)	TZ229
TB701	Terminal Strip Barrier	TM102-2
TB702	Terminal Strip Barrier	TM102-4
TB703	Terminal Strip Barrier	TM102-8
V701	Tube Electron	4CX10,000J
XA701	Connector, Receptacle, Female, PC	JJ287-20
XA702	Connector, Receptacle, Electrical PC	JJ293-15DFE
XA703	Same as XA701	
XA704	Not Used	
XA705	Connector, Receptacle, Electrical PC	JJ319-22DFE
XA706	Not Used	
XA707	Socket, E1 Tube	TS101-PC1
XF701	Fuse Holder, Indicator	FH104-3
XV701	Tube Socket Assembly (Ref Note 2)	AX743-1
XV701	Tube Socket Assembly (Ref Note 3)	AX743-2

A701

PA SENSE BOARD (A-4835)

(Ref Note 2)

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
A701C1	Capacitor, Fixed, Mica	CM111C100J5S
A701C2	Capacitor, Fixed, Mica	CM111C180J5S
A701C3 thru A701C15	Capacitor, Fixed, Ceramic	CC100-28
A701CR1	Semiconductor, Device, Diode	1N3022B
A701E1 thru A701E4	Terminal, Stud	TE127-2
A701L1	Coil, RF, Fixed	CL240-120
A701L2	Choke, RF	CL105-2
A701L3	Same as A701L1	
A701R1	Resistor, Fixed, WW	RR114-50W
A701R2	Same as A701R1	
A701R3	Resistor, Fixed, Composition	RC42GF222J
A701R4	Resistor, Fixed, Composition	RC20GF123J
A701R5	Resistor, Fixed, Composition	RC20GF103J
A701R6	Resistor, Fixed, Composition	RC20GF223J
A701R7	Resistor, Fixed, Composition	RC20GF474J
A701R8	Same as A701R5	
A701R9	Resistor, Fixed, Precision	RN65D4751F
A701R10	Same as R701R9	
A701R11	Resistor, Fixed, Composition	RC42GF223J
A701R12	Same as A701R7	
A701R13	Resistor, Fixed, Composition	RC20GF471J
A701R14	Same as A701R5	
A701R15	Resistor, Fixed, Composition (Ref Note 5)	RC20GF473J
A701V1	Tube, Elec	5726
A701V2	Same as A701V1	
A701XV1	Socket, E1 Tube	TS160-1
A701XV2	Same as A701XV1	

A702

TUNE CAPACITOR ASSEMBLY (AX5171)

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
A702A1	Tune, Capacitor Control Board (Ref Notes 1, 2)	A-4830
A702B1	Motor (Ref Note 2)	M0140
A702C1	Capacitor, Variable, Vacuum	CB176
A702J1	Connector, Receptacle, Female (Ref Note 2)	JJ310-2
A702P1	Connector, Plug, Male (Ref Note 2)	JJ313-2H
A702S1 A702S2	Switch, Sensing (Ref Note 2) Same as A702S1	SW353-3
<p>A702A1</p> <p>TUNE CAPACITOR CONTROL BOARD (A-4830)</p> <p>(Ref Note 2)</p>		
REF SYMBOL	DESCRIPTION	TMC PART NUMBER
A702A1C1 thru A702A1C20	Capacitor, Fixed, Ceramic	CC100-16
A702A1E1 thru A702A1E17	Terminal, Stud	TE127-3
A702A1K1	Relay, Armature 4 PDT	RL156-8
A702A1L1 thru A702A1L13	Coil, RF, Fixed	CL240-120
A702A1XK1	Socket, Relay with retainer	TS171-4

A703

LOAD CAPACITOR ASSEMBLY (AX5172)

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
A703A1 A703A2	Load Motor Assembly (Ref Notes 1, 2) Network, Discriminator (Ref Note 2)	A-4831 AZ117
A703B1	Motor (Ref Note 2)	M0139
A703C1 A703C2 A703C3 A703C4 A703C5	Capacitor, Variable, Vacuum Capacitor, Fixed, Metalized (Ref Note 2) Capacitor, Fixed, Ceramic (Ref Note 2) Same as A703C3 Same as A703C3	CB147 CP121-25M150T CC100-28
A703F1 A703F2	Fuse, Cartridge (Ref Note 2) Fuse, Cartridge (Ref Note 2)	FU102-.2 FU102-.062
A703J1	Connector, Receptacle, Male (Ref Note 2)	JJ313-1
A703P1	Connector, Plug, Female (Ref Note 2)	JJ310-1H
A703S1 A703S2	Switch, Sensing (Ref Note 2) Same as A703S1	SW353-3
A703T1	Transformer, Power Step-Down (Ref Note 2)	TF245
A703XA1	Connector, Receptacle, Female (Ref Note 2)	JJ293-15DFE
A703XF1 A703XF2	Fuseholder, Ind (Ref Note 2) Fuseholder, Ind (Ref Note 2)	FH104-3 FH104-11

A703A1

LOAD MOTOR ASSEMBLY (A-4831)

(Ref Note 2)

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
A703A1C1 thru	Capacitor, Fixed, Ceramic	CC100-16
A703A1C3	Capacitor, Fixed, Metalized	CN114-1R0-4J
A703A1C4	Capacitor, Fixed, Electrolytic	CE105-75-50
A703A1C5	Same as A703A1C1	
A703A1C6 thru		
A703A1C18		
A703A1C19	Same as A703A1C5	
A703A1CR1	Semiconductor, Device, Diode	1N3029
A703A1CR2	Rectifier, Semiconductor, Device	DD130-100-1.5
A703A1CR3	Semiconductor, Device, Diode	1N3070
A703A1K1	Relay, Armature 4 PDT	RL156-8
A703A1K2	Relay, Armature DPDT	RL156-1
A703A1L1	Coil, RF, Fixed	CL240-120
thru		
A703A1L4		
A703A1R1	Resistor, Fixed, Composition	RC32GF181J
A703A1XK1	Socket, Relay with retainer	TS171-4
A703A1XK2	Socket, Relay with retainer	TS171-5

A704

BANDSWITCH ASSEMBLY (AS163)

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
A704A1	Switch Assembly Control (Ref Note 1)	AX5103
A704B1	Motor	M0129
A704C1 A704C1 thru A704C4	Capacitor, Fixed, Ceramic (Ref Note 3) Capacitor, Fixed, Ceramic (Ref Note 2)	CC109-31 CC109-31
A704E1 thru A704E8	Contact Assembly	A-1701
A704E9	Contact Assembly	AX573
A704E10	Same as A704E9	
A704E11	Contact Wiper	PM1176
A704E12	Contact Assembly	A-1700-2
A704E13	Contact Shorting	MS5613
A704E14A	Contact Switch	MS1601-4
A704E14B	Contact Switch	MS1601-5
A704E15	Contact Rotor	PM1430
A704E16A	Same as A704E14A	
A704E16B	Same as A704E14B	
A704E17 thru A704E21 A704E22 A704E23	Contact Assembly Same as A704E12 Same as A704E17	A1701-2
A704L1	Coil, RF, HF	CL441
A704L2	Coil, Main Tank	CL445
A704L3	Coil Assembly	CL440
A704P1	Connector, Plug, Male	MS3106A14S-7P

A704A1

CONTACT SWITCH ASSEMBLY (AX5103)

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
A704A1C1	Capacitor, Fixed, Ceramic	CX119-104M
A704A1CR1 A704A1CR2	Semiconductor, Device, Diode Same as A704A1CR1	1N645
A704A1J1 A704A1J2 A704A1J3	Connector, Receptacle, Female Connector, Receptacle, Male Connector, Receptacle, Female 3/C	JJ200-9 JJ200-10 MS3102A14S-7S
A704A1K1	Relay, Armature	RL168-3C10-24DC
A704A1R1 A704A1R2 A704A1R3 A704A1R4	Resistor, Fixed, Composition (Ref Note 5) Same as A704A1R1 Resistor, Fixed, Composition (Ref Note 5) Same as A704A1R3	RC20GF102J RC20GF152J
A704A1S1	Switch, Rotary	SW526
A704A1W1	Wiring Harness Branched	CA1494
A704A1XK1	Socket, Relay	TS100-6
:		
A705		
REMOTE POWER ASSEMBLY (AX5173)		
REF SYMBOL	DESCRIPTION	TMC PART NUMBER
A705A1 A705A1	Power Output Control (Ref Notes 1, 2) Power Output Control (Ref Notes 1, 3)	A-4805 A-4805-2
A705F1	Fuse, Cartridge (Ref Note 2)	FU102-2
A705S1	Switch, Rotary Ledex (Ref Note 2)	SW530
A705XF1	Fuse Holder, Indicator (Ref Note 2)	FH104-11

A705A1

POWER OUTPUT CONTROL (A-4805)

(Ref Note 2)

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
A705A1CR1 thru A705A1CR4	Semiconductor, Device, Diode	1N914
A705A1CR5 A705A1CR6 thru A705A1CR8	Semiconductor, Device, Diode Same as A705A1CR1	1N538
A705A1DS1 A705A1DS2	Lamp, Incandescent Same as A705A1DS1	B1101-1820
A705A1E1 thru A705A1E34	Terminal, Stud	TE127-8
A705A1E35 A705A1E36 thru A705A1E38	Not Used Same as A705A1E1	
A705A1K1 A705A1K2	Relay, Armature, 4PDT Relay, Armature, 6PDT	RL156-8 RL156-5
A705A1R1 thru A705A1R4	Resistor, Variable, Wirewound	RV119-1-5020
A705A1R5 A705A1R6 A705A1R7 thru A705A1R15	Resistor, Fixed, Composition Resistor, Variable, Wirewound Same as A705A1R1	RC20GF563J RV119-1-5030
A705A1R16	Resistor, Fixed, Composition	RC20GF102J
A705A1XDS1 A705A1XDS2	Lampholder Same as A705A1XDS1	TS107-2
A705A1XK1 A705A1XK2	Socket, Relay with retainer Socket, Relay with retainer	TS171-4 TS171-6

A705A1

POWER OUTPUT CONTROL (A-4805-2)

(Ref Note 3)

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
A705A1DS1 A705A1DS2	Lamp, incandescent Same as A705A1DS1	B1101-1820
A705A1E1 thru A705A1E34 A705A1E35 A705A1E36 thru A705A1E38	Terminal, Stud Not Used Same as A705A1E1	TE127-8
A705A1K1 A705A1K2	Not Used Relay, Armature	RL156-5
A705A1R1 thru A705A1R7 A705A1R8	Not Used Resistor, Variable, Wirewound	RV119-1-502C
A705A1XDS1 A705A1XDS2	Lampholder Same as A705A1XDS1	TS107-2
A705A1XK1 A705A1XK2	Not Used Socket, Relay with retainer	TS171-6

A706

HARMONIC FILTER ASSEMBLY (AF110)

(Ref Note 4)

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
A706C1	Capacitor, Fixed, Ceramic	CC109-28
A706C2	Capacitor, Fixed, Ceramic	CC109-13
A706C3	Same as A706C1	
A706C4	Same as A706C2	
A706C5	Same as A706C1	
thru		
A706C8		
A706C9	Same as A706C2	
A706C10	Same as A706C1	
thru		
A706C13		
A706C14	Same as A706C2	
A706C15	Same as A706C2	
A706C16	Same as A706C1	
A706C17	Capacitor, Fixed, Ceramic	CC109-5
A706C18	Capacitor, Fixed, Ceramic	CC109-19
A706C19	Same as A706C1	
A706J1	Jack, Tip	JJ114-2
A706L1	Coil, RF	CL449-3
A706L2	Coil, RF	CL449-1
A706L3	Coil, RF	CL449-2
A706L4	Same as A706L3	
A706L5	Same as A706L2	
A706L6	Same as A706L1	
A707		
ALDC ASSEMBLY (A-4856)		
REF SYMBOL	DESCRIPTION	TMC PART NUMBER
A707A1	ALDC Can Assembly (Ref Note 1)	A-4855
A707R1	Resistor, Fixed, Composition	RC07GF221J
A707R2	Resistor, Fixed, Composition	RC07GF474J
A707R3	Resistor, Fixed, Composition	RC07GF101J
A707R4	Resistor, Fixed, Composition	RC07GF682J
A707R5	Same as A707R1	
A707R6	Resistor, Fixed, Composition	RC07GF471J
A707R7	Refer to A707A1 List	
thru		
A707R29		
A707R30	Resistor, Fixed, Composition	RC07GF682J

A707A1

ALDC CAN ASSEMBLY (A-4855)

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
A707A1C1	Capacitor, Fixed, Electrolytic	CE105-50-50
A707A1C2	Capacitor, Fixed, Ceramic	CC100-9
thru		
A707A1C4		
A707A1C5	Same as A707A1C1	
A707A1C6	Same as A707A1C2	
thru		
A707A1C10		
A707A1C11	Not Used	
A707A1C12	Same as A707A1C2	
A707A1C13	Same as A707A1C2	
A707A1C14	Capacitor, Fixed, Electrolytic	CE105-1-15
A707A1C15	Capacitor, Fixed, Ceramic	CC100-28
A707A1CR1	Semiconductor, Device, Diode	1N277
A707A1CR2	Semiconductor, Device, Diode	1N759A
A707A1CR3	Same as A707A1CR2	
A707A1R1	Refer to A707 List	
thru		
A707A1R6		
A707A1R7	Resistor, Fixed, Composition	RC07GF471J
A707A1R8	Resistor, Fixed, Composition	RC07GF221J
A707A1R9	Resistor, Fixed, Composition	RC07GF682J
A707A1R10	Resistor, Fixed, Composition	RC07GF101J
A707A1R11	Resistor, Fixed, Composition	RC07GF223J
A707A1R12	Resistor, Fixed, Composition	RC07GF181J
A707A1R13	Resistor, Fixed, Composition	RC07GF474J
A707A1R14	Resistor, Fixed, Composition	RC07JF102J
A707A1R15	Resistor, Fixed, Composition	RC07GF224J
A707A1R16	Resistor, Fixed, Composition	RC07GF152J
A707A1R17	Resistor, Fixed, Composition	RC07GF333J
A707A1R18	Resistor, Variable, Composition	RV124-1-502K
A707A1R19	Resistor, Fixed, Composition	RC07GF153J
A707A1R20	Resistor, Fixed, Composition	RC07GF562J
A707A1R21	Resistor, Fixed, Composition	RC07GF103J
A707A1R22	Same as A707A1R14	
A707A1R23	Same as A707A1R19	
A707A1R24	Same as A707A1R18	
A707A1R25	Same as A707A1R17	
A707A1R26	Same as A707A1R16	
A707A1R27	Resistor, Fixed, Composition	RC07GF183J
A707A1R28	Resistor, Fixed, Composition	RC07GF472J
A707A1R29	Same as A707A1R14	
A707A1R30	Refer to A707 list	
A707A1Z1	Operational Amplifier	NW156
A707A1Z2	Same as A707A1Z1	

A708

ALDC PRINTED CIRCUIT BOARD ASSEMBLY (A-4850-3)

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
A708C1	Capacitor, Fixed, Ceramic	CX119-104M
A708C2	Same as A708C1	
A708C3	Capacitor, Fixed, Electrolytic	CE105-4-50
A708CR1	Semiconductor, Device, Diode	1N100
A708E1 thru A708E3	Terminal, Stud	TE127-2
A708R1	Resistor, Fixed, Composition	RC20GF472J
A708R2	Resistor, Fixed, Composition	RC20GF102J

API53

POWER SUPPLY

SYMBOL SEREIS 800

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
A801	Shorting Relay Assembly (Ref Note 1)	AX5096
B801	Fan, Centrifugal, 3 Phase	BL145
C801	Capacitor, Fixed, Paper	CP103
C802	Capacitor, Fixed, Plastic	CX113-2
C803	Capacitor, Fixed, Paper	CP105
C804	Same as C803	
C805 thru C807	Capacitor, Fixed, Ceramic	CC109-38
CR801A thru CR801H	Semiconductor, Device, Diode	1N2846A
CR802A thru CR802F	Rectifier, Semiconductor, Device	DD128-3
CR803	Rectifier, Semiconductor, Device	DD129
CR804	Same as CR803	
CR805	Rectifier, Semiconductor, Device	DD147
CR806	Semiconductor, Device, Diode	1N3022B
CR807A	Semiconductor, Device, Diode	1N2846A
CR807B	Same as CR807A	
E801 thru E804	Screw, Machine	SCBP0832BN10
E805 thru E807	Screw, Machine, H.H.	SCHH3118BN24
E808	Screw, Machine, H.H.	SCHH2520BN24
E809 thru E811	Contact Kit, Single	P0183
E812	Terminal Turret	TE102-2
E813	Same as E812	
E814	Same as E801	
E815	Not Used	
E816	Contact, RF	A-1654-2
E817	Same as E816	
K801	Relay Solenoid 3 Phase	RL130-3
K802	Relay Armature	RL184-1
L801	Reactor, .8h	TF5035
L802	Reactor, 5h	TF5034

AP153

POWER SUPPLY (cont)

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
L803 L804	Reactor, 7h Coil, Fixed, RF	TF5013 CL178
M801	Timer Interval	TI105-1
P801	Connector, Plug, HN	PL253-1
R801 R802 R803 R804 thru R807	Resistor, Fixed, Wirewound Resistor, Fixed, Wirewound Resistor, Fixed, Wirewound Resistor, Fixed, Wirewound	RW118F252 RW118F502 RW118F310 RW116-603B
R808 R809	Resistor, Fixed, Wirewound Resistor, Fixed, Wirewound	RW109-42 RW105-29
R810	Same as R809	
R811	Resistor, Fixed, Wirewound	RW110-7
R812	Same as R811	
R813	Resistor, Fixed, Wirewound	RW110-3
R814	Resistor, Fixed, Composition	RC42GF331J
R815	Resistor, Fixed, Composition	RC42GF102J
R816	Same as R814	
R817	Resistor, Fixed, Wirewound	RW116-202B
R818	Resistor, Fixed, Wirewound	RW110-43
R819	Resistor, Fixed, Composition	RC42GF101J
R820	Same as R819	
R821	Same as R818	
R822	Same as R819	
thru R831		
R832	Same as R811	
R833	Resistor, Fixed, Wirewound	RW109-7
thru R838		
S801	Micro-switch, Low torque	SW252
T801	Transformer, Power, Step-Up	TF203
T802	Transformer, Power, Step-Up	TF386
T803	Transformer, Power, Step-Up	TF384
T804	Transformer, Power, Step-Down	TF421
XK801	Not Used	
XK802	Socket, Relay	TS196-1

A801

Shorting Relay Assembly (AX5096)

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
A801E1 thru A801E4	Nut, Cap	NTC2520BN6
A801E5 thru A801E8	Nut, Round	NT159
A801L1	Solenoid, Elec	SZ100-60
A801S1	Switch, Sensing, SPDT	SW260
A801TB1	Terminal, Board Barrier	TM102-5
A801W1	Cable, Shorting Assembly	CA1504
A801W2 thru A801W5	Cable, Jumper Assembly	CA409-45-2.37
A801W6 A801W7	Cable, Jumper Assembly Same as A801W6	CA409-69-4.00

MAIN FRAME SUB ASSEMBLY

SYMBOL SERIES 900

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
E901 E902	Terminal, Strip Finger Same as E901	TM105-5AR
P901	Not Used	
P902	Not Used	
P903	Connector, Plug, Female, 24/C	MS3106B24-28S
P904	Connector, Plug, Female, 27/C	PL212-10
P905	Connector, Plug, Male, 37/C	PL212-9
P906	Connector, Plug, Female, 52/C	MS3106B32-414S
P907	Connector, Plug, Male, 52/C	MS3106B32-414P
P908	Connector, Plug, Male, 1/C	MS3106B18-16P
P909	Connector, Plug, Female, 1/C	MS3106B18-16S
P910	Connector, Plug, BNC	PL244-1
P911	Same as P910	
P912	Connector, Plug, Female, 52/C	MS3108B32-414S
P913	Same as P904	
P914	Same as P910	
S901 thru S906	Switch, Interlock	SW230
S907	Switch, Roller	SW260
TB901	Terminal, Strip Barrier	TM102-4
TB902	Terminal, Strip Barrier	TM102-8
TB903	Same as TB902	
TB904	Terminal, Strip Barrier	TM102-14
TB905	Terminal, Strip Barrier	TM102-7

A1000

IPA DRAWER (AX5167)

SYMBOL SERIES 1000

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
A1001	Tune Capacitor Assembly (Ref Notes 1, 2)	BMA433
A1001	Tune Capacitor Assembly (Ref Notes 1, 3)	BMA433-2
A1002	Bandswitch Assembly (Ref Note 1)	AS146
A1003	IPA Servo Amplifier (Ref Note 2)	AZ119
A1004	PA Servo Amplifier (Ref Note 2)	AZ120
A1005	Drive-Up Assembly (Ref Notes 1, 2)	BMA503
A1006	Plate Meter Assembly (Ref Note 1)	A-4801
A1007	Bias Control Assembly (Ref Notes 1, 2)	A-4833
A1007	Bias Control Assembly (Ref Notes 1, 3)	A-4833-2
A1008	IPA Sense Assembly (Ref Notes 1, 2)	
C1001	Capacitor, Fixed, Ceramic	CC109-6
E1001	Button Contact	PH1332
F1001	Fuse, Cartridge	FU102-2
F1002	Fuse, Cartridge	FU102-.1
F1003	Fuse, Cartridge	FU102-8
F1004	Fuse, Cartridge	FU102-5
J1001	Connector, Receptacle, Male 52/C	MS3102A32-414P
J1002	Connector, Receptacle, Female 52/C	MS3102A32-414S
J1003	Connector, Receptacle, Female 1/C	MS3102A18-16S
J1004	Connector, Receptacle, Male	MS3102A18-16P
J1005	Adapter, Connector, RF	UG492/U
J1006	Same as J1005	
J1007	Connector, Receptacle, RF	UG560/U
L1001	Transformer, Output Matching	TR192
M1001	Meter	MR216-1
PI001	Connector, Plug, BNC	PL244-1
SI001	Switch Lever	SW523-3
XA1001	Connector, Receptacle, Female	JJ287-20
XA1002	Connector, Receptacle, Female 25/C	JJ310-2F
XA1003	Connector, Receptacle, Female 37/C	JJ310-5F
XA1004	Same as XA1003	
XA1005	Connector, Receptacle, Female 15/C	JJ310-1
XF1001	Fusholder, Indicator	FH104-3
XF1002	Same as XF1001	
XF1003	Fusholder, Indicator	FH104-11
XF1004	Same as XF1003	

A1001

TUNE CAPACITOR ASSEMBLY (BMA433-2)

(Ref Note 3)

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
A1001C1 A1001C2 thru A1001C5	Capacitor, Variable, Air Capacitor, Fixed, Ceramic	CB175 CC109-38
<p>A1001</p> <p>TUNE CAPACITOR ASSEMBLY (BMA433)</p> <p>(Ref Note 2)</p>		
REF SYMBOL	DESCRIPTION	TMC PART NUMBER
A1001A1	Printed Circuit Board Assembly (Ref Note 1)	A-4832
A1001B1	Motor	M0127
A1001C1 A1001C2 thru A1001C5	Capacitor, Variable, Air Capacitor, Fixed, Ceramic	CB175 CC109-38
A1001S1 A1001S2	Switch Same as A1001S1	SW353-2
A1001W1	Cable, Tune Capacitor	CA1521
<p>A1001A1</p> <p>PRINTED CIRCUIT BOARD ASSEMBLY (A-4832)</p>		
REF SYMBOL	DESCRIPTION	TMC PART NUMBER
A1001A1C1 thru A1001A1C12	Capacitor, Fixed, Ceramic	CC100-16
A1001A1E1 thru A1001A1E12	Terminal, Stud	TE127-3

A1002

BANDSWITCH ASSEMBLY (AS146)

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
A1002C1 thru A1002C6	Capacitor, Fixed, Ceramic	CC109-38
A1002C7	Capacitor, Fixed, Ceramic	CC109-19
A1002C8	Capacitor, Fixed, Ceramic	CC116-9
A1002C9	Same as A1002C8	
A1002C10	Capacitor, Fixed, Ceramic	CC116-8
A1002C11	Same as A1002C10	
A1002CR1	Semiconductor, Device, Diode	1N547
A1002E1	Terminal, Stud, Insulated	TE102-2
A1002E2	Same as A1002E1	
A1002E3	Contact, Leaf, Spring	PM1210-4
thru		
A1002E5	Contact Wiper	PM1415
A1002E6	Same as A1002E3	
A1002E7	Same as A1002E3	
thru		
A1002E20	Contact, Leaf, Spring	PM1210-5
A1002E21	Same as A1002E3	
A1002E22	Same as A1002E3	
A1002E23	Same as A1002E3	
A1002J1	Connector, Receptacle, Male	JJ313-2F
A1002K1	Relay, Armature DPDT	RL168-2C10-24DC
A1002L1	Coil, RF	CL447
A1002L2	Coil, Main Tank	CL446
A1002L3	Coil	CL292
A1002R1	Resistor, Fixed, Composition (Ref Note 2)	RC20GF472J
A1002R2	Resistor, Fixed, Composition (Ref Note 2)	RC20GF103J
A1002R3	Resistor, Fixed, Composition (Ref Note 2)	RC20GF392J
A1002S1A	Wafer, IPA	PX1083
A1002S1B	Wafer, Output	PX1082
A1002S2	Switch, Ledex	SW429
A1002W1	Cable, Ledex Assembly	CA1522
A1002XK1	Socket, Relay	TS100-3

A1005

DRIVE-UP ASSEMBLY (BMA503)

(Ref Note 2)

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
A1005A1	Drive-Up Control	AZ117
A1005C1 thru A1005C3 A1005C4	Capacitor, Fixed, Ceramic	CC100-28
	Capacitor, Fixed, Electrolytic	CE105-200-25
A1005CR1	Semiconductor, Device, Diode	1N645
A1006		
PLATE METER ASSEMBLY (A-4801)		
REF SYMBOL	DESCRIPTION	TMC PART NUMBER
A1006C1 A1006C2 thru A1006C4	Capacitor, Fixed, Electrolytic	CE105-50-15
	Capacitor, Fixed, Ceramic	CC100-28
A1006CR1	Semiconductor, Device, Diode	1N2484
A1006DS1 A1006DS2	Lamp, Incandescent	B1101-1820
	Same as A1006DS1	
A1006Q1	Transistor	2N1595
A1006R1	Resistor, Fixed, Composition	RC20GF122J
A1006R2	Resistor, Fixed, Composition	RC20GF121J
A1006R3	Resistor, Fixed, Composition	RC20GF821J
A1006R4	Resistor, Fixed, Composition	RC20GF332J
A1006XDS1 A1006XDS2	Lampholder	TS107-4
	Same as A1006XDS1	

A1007

BIAS CONTROL ASSEMBLY (A-4833)

(Ref Note 2)

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
A1007C1 thru A1007C4	Capacitor, Fixed, Mica	CX119-104M
A1007R1	Not Used	
A1007R2	Resistor, Fixed, Composition	RC42GF123J
A1007R3	Resistor, Fixed, Composition	RC42GF822J
A1007R4 thru A1007R6	Resistor, Variable, Composition	RV4NAYSA103AY
A1007R7	Resistor, Fixed, Composition	RC42GF183J
A1007R8	Same as A1007R3	
A1007R9	Resistor, Fixed, Composition	RC42GF182J
A1007R10	Resistor, Variable, Composition	RV119-1-104B
A1007R11	Resistor, Variable, Composition	RV119-1-102C
A1007R12	Same as A1007R10	
A1007R13	Resistor, Variable, Composition	RV119-1-503B
A1007R14 thru A1007R16	Resistor, Fixed, Composition	RC20GF563J
A1007TP1 thru A1007TP5	Terminal, Stud	TE127-10
A1007		
BIAS CONTROL ASSEMBLY (A-4833-2)		
(Ref Note 3)		
REF SYMBOL	DESCRIPTION	TMC PART NUMBER
A1007R1	Not Used	
A1007R2	Resistor, Fixed, Composition	RC20GF123J
A1007R3	Resistor, Fixed, Composition	RC42GF822J
A1007R4 thru A1007R6	Resistor, Variable, Composition	RV4NAYSA103AY
A1007R7	Resistor, Fixed, Composition	RC42GF183J
A1007R8	Same as A1007R3	
A1007R9	Resistor, Fixed, Composition	RC42GF182J
A1007R10	Resistor, Variable, Composition	RV119-1-104B
A1007R11	Resistor, Variable, Composition	RV119-1-102C
A1007R12	Same as A1007R10	
A1007R13	Resistor, Variable, Composition	RV119-1-503B

A1007 (cont)

BIAS CONTROL ASSEMBLY (A-4833-2)

(Ref Note 3)

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
A1007R14 thru A1007R16	Resistor, Fixed, Composition	RV119-1-503B
A1007TP1 thru A1007TP5	Terminal, Stud	TE127-10
A1008		
IPA SENSE ASSEMBLY (A-4807)		
(Ref Note 2)		
REF SYMBOL	DESCRIPTION	TMC PART NUMBER
A1008C1 thru A1008C5	Capacitor, Fixed, Ceramic	CC100-16
A1008CR1 thru A1008CR3 A1008CR4	Semiconductor, Device, Diode	1N3070
	Semiconductor, Device, Diode	1N3022B
A1008L1	Transformer, Fixed	TR194
A1008R1	Resistor, Fixed, Composition	RC20GF103J
A1008R2	Resistor, Fixed, Composition	RC42GF470J
A1008R3	Same as A1008R2	
A1008R4	Resistor, Fixed, Composition	RC20GF102J
A1008R5	Same as A1008R4	
A1008R6	Resistor, Fixed, Composition	RC20GF222J
A1008R7	Same as A1008R1	

IPA DRAWER (AX5167)

SYMBOL SERIES 1100

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
C1101	Capacitor, Fixed, Electrolytic	CE116-10VN
C1102	Same as C1101	
C1103	Capacitor, Fixed, Ceramic	CC100-28
C1104	Capacitor, Fixed, Electrolytic	CE51C800R
C1105	Same as C1104	
C1106	Capacitor, Fixed, Paper	CP41B1EF405K
C1107	Capacitor, Fixed, Ceramic	CC100-37
thru		
C1112		
C1113	Capacitor, Fixed, Ceramic (Ref Note 2)	CC100-28
thru		
C1117		
CR1101	Semiconductor, Device, Diode (Ref Note 2)	1N547
CR1102	Same as CR1101	
CR1103	Rectifier, Semiconductor, Device	DD146-2
CR1104	Semiconductor, Device, Diode	1N3321B
CR1105	Semiconductor, Device, Diode	1N2976B
CR1106	Rectifier, Semiconductor, Device	DD124
CR1107	Semiconductor, Device, Diode	1N2841R
thru		
CR1109		
E1101	Turret Terminal	TE102-2
thru		
E1107		
K1101	Relay, Armature 3PDT	RL168-3C10-24DC
L1101	Coil, Choke	TF5028
R1101	Resistor, Fixed, Wirewound 10W	RW109-2
R1102	Resistor, Fixed, Composition	RC42GF181J
R1103	Resistor, Fixed, Composition	RC20GF272J
R1104	Resistor, Fixed, Composition	RC42GF474J
R1105	Resistor, Fixed, Wirewound 10W	RW109-20
R1106	Resistor, Fixed, Wirewound 10W	RW109-14
R1107	Resistor, Fixed, Wirewound 10W	RW109-9
R1108	Same as R1104	
R1109	Resistor, Fixed, Composition	RC20GF102J
R1110	Resistor, Fixed, Composition	RC32GF223J
R1111	Resistor, Fixed, Wirewound 10W	RW109-30
S1101	Switch, Interlock	SW219
T1101	Transformer, Power	TF375

IPA DRAWER (AX5167)

SYMBOL SERIES 1100 (cont)

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
TB1101 TB1102	Not Used Terminal Board Barrier	TM102-6
XC1101 thru XC1103 XC1104 XC1105	Not Used Socket, Capacitor Same as XC1104	TS100-3
XCR1101 thru XCR1106 XCR1107 thru XCR1109	Not Used Socket, Semiconductor, Device	TS166-1
XK1101	Socket, Relay	TS100-6
<p>IPA DRAWER (AX5167)</p> <p>SYMBOL SERIES 1200</p>		
REF SYMBOL	DESCRIPTION	TMC PART NUMBER
C1201 C1202 C1203 C1204 C1205 thru	Not Used Capacitor, Fixed (Ref Note 2) Capacitor, Fixed, Ceramic Capacitor, Fixed, Ceramic Same as C1203	CN114-1R0-4J CK70AW202M CK70AW102M
C1212 C1213 C1214 C1215 C1216 C1217	Capacitor, Fixed, Ceramic Same as C1203 Same as C1203 Same as C1213 Same as C1203	CC108-4F1000M
C1218 C1219 C1220 C1221	Capacitor, Fixed, Electrolytic Capacitor, Fixed, Ceramic (Ref Note 2) Same as C1219 Capacitor, Fixed, Ceramic (Ref Note 2)	CE105-25-25 CC100-16 CC100-37

IPA DRAWER (AX5167)

SYMBOL SERIES 1200 (cont)

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
CR1201	Semiconductor, Device, Diode (Ref Note 2)	1N547
CR1202	Semiconductor, Device, Diode (Ref Note 2)	1N3022B
CR1203	Semiconductor, Device, Diode (Ref Note 2)	1N34A
E1201	Turret Terminal	TE102-2
E1202	Same as E1201	
E1203	Bushing, Slot Head	TE101-3
E1204	Same as E1203	
E1205	Same as E1201	
E1206	Turret Terminal (Ref Note 2)	TE102-2
E1207	Same as E1201	
E1208	Same as E1206	
E1209	Same as E1206	
E1210	Same as E1201	
K1201	Relay, Armature (Ref Note 2)	RL156-1
R1201	Resistor, Fixed, Wirewound 5W (Ref Note 2)	RW107-28
R1202	Resistor, Fixed, Composition	RR114-5W
R1203	Same as R1202	
R1204	Resistor, Fixed, Wirewound 25W	RW111-5
R1205	Resistor, Fixed, Composition	RC42GF100J
R1206	Resistor, Fixed, Composition (Ref Note 2)	RC42GF391J
R1207	Resistor, Fixed, Wirewound 20W	RW110-1
R1208	Resistor, Fixed, Composition (Ref Note 2)	RC20GF471J
R1209	Resistor, Fixed, Composition (Ref Note 2)	RC20GF223J
R1210	Resistor, Fixed, Composition (Ref Note 2)	RC20GF103J
R1211	Same as R1202	
S1201	Switch, Interlock	SW219
XK1201	Socket, Relay	TS171-1

IPA DRAWER (AX5167)

SYMBOL SERIES 1300

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
B1301	Motor, RF Gain (Ref Note 2)	M0136-5-UH-F
C1301	Capacitor, Fixed, Ceramic	CC100-35
C1302	Capacitor, Fixed, Ceramic	CC100-44
C1303	Capacitor, Fixed, Ceramic	CC100-43
C1304	Same as C1302	
C1305	Capacitor, Fixed, Ceramic	CC100-32
thru		
C1307		
C1308	Capacitor, Fixed, Ceramic	CC100-31
C1309	Capacitor, Fixed, Mica	CM111E220J5S
C1310	Capacitor, Fixed, Mica	CM112F222F3S
C1311	Capacitor, Fixed, Ceramic	CC100-37
thru		
C1313		
C1314	Same as C1302-	
1315	Capacitor, Fixed, Ceramic	CC100-23
C1316	Same as C1315	
C1317	Capacitor, Fixed, Mica	CM50B222G03
C1318	Capacitor, Fixed, Ceramic	CC100-38
E1301	Terminal, Teflon	TE169-1
thru		
E1304		
E1305	Turret Terminal	TE102-2
thru		
E1317		
L1301	Coil, RF	CL101-2
L1302	Coil, RF	CL140-2
L1303	Coil, RF	CL460
L1304	Same as L1302	
thru		
L1306		
L1307	Inductor, Fixed	CL459
L1308	Coil, RF	CL178
R1301	Resistor, Variable, Composition	RV44AYSK500A
R1302	Resistor, Fixed, Composition	RC20GF102J
R1303	Resistor, Variable, Composition	RV106UX8B252A
R1304	Resistor, Fixed, Composition	RC20GF271J
R1305	Resistor, Fixed, Composition	RC32GF100J
R1306	Resistor, Fixed, Composition	RC42GF120J
R1307	Resistor, Fixed, Composition	RC42GF222J
R1308	Resistor, Fixed, Composition	RC42GF183J
R1309	Resistor, Fixed, Wirewound 10W	RW109-28

IPA DRAWER (AX5167)

SYMBOL SERIES 1300 (cont)

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
R1310	Resistor, Fixed, Composition	RC20GF333J
R1311	Resistor, Fixed, Composition	RC42GF331J
R1312	Resistor, Fixed, Composition	RC42GF472J
R1313	Resistor, Fixed, Composition	RC42GF154J
R1314	Same as R1313	
S1301	Switch Limit (Ref Note 2)	SW353-2
S1302	Same as S1301	
V1301	Tube, Electron	8233
V1302	Tube, Electron	4CX350A
XV1301	Socket, Tube Electron	TS198
XV1302	Socket, Tube Electron	TS197
Z1301	Parasitic Suppressor	A-1546-2
Z1302	Parasitic Suppressor	A-1546-4

IPA DRAWER (AX5167)

SYMBOL SERIES 1400

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
B1401	Blower, Centrifugal	BL126
C1401	Not Used	
C1402	Capacitor, Fixed, Ceramic	CC100-37
C1403	Same as C1402	
C1404	Capacitor, Fixed, Mica	CM112F562J5S
C1405	Capacitor, Fixed, Mica	CM35F103F03
C1406	Same as C1405	
C1407	Capacitor, Fixed, Ceramic	CC100-32
C1408	Not Used	
C1409	Same as C1407	
C1410	Capacitor, Fixed, Ceramic	CC109-36
thru		
C1413		
C1414	Capacitor, Fixed, Ceramic	CC109-38
C1415	Capacitor, Fixed, Ceramic (Ref Note 2)	CC108-4P1000M
C1416	Capacitor, Fixed, Ceramic (Ref Note 2)	CC109-6
thru		
C1418		
C1419	Same as C1415	

IPA DRAWER (AX5167)

SYMBOL SERIES 1400 (cont)

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
C1420 C1421	Same as C1416 Same as C1416	
E1401 E1402	Insulator, Standoff Insulator, Standoff (Ref Note 3)	NS3W0108 HS3W0204
K1401	Relay, Armature	RL185-1
L1401 L1402 L1403 L1404 L1405	Transformer, Interstage Not Used Coil, RF Same as L1403 Coil, RF	TR193 CL140-6 CL138
R1401 R1402 R1403 R1404 R1405	Resistor, Fixed, Composition Not Used Same as R1401 Resistor, Fixed, Composition Resistor, Fixed, Composition	RR116-1400W RR116-20W RR114-5W
S1401	Switch, Air	SW252
V1401	Tube, Electron	8576/PL264J
XV1401	Socket, Tube, Electron	TS182

EXCITER DRAWER (AX5168)

SYMBOL SERIES 2000

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
A2001 A2002	Tuning Control Board (Ref Notes 1, 2) Channel Band Select (Ref Note 2)	A-4834 PC532
B2001	Fan, Vent	BL106-2
C2001 thru C2011	Capacitor, Fixed, Ceramic	CK70AW202M
C2012 C2103	Capacitor, Fixed, Ceramic (Ref Note 2) Same as C2012	CC100-28
E2001 thru E2003	Turret Terminal	TE102-2
E2004 thru E2006	Terminal Board Finger	TM105-6AL
E2007 E2008	Not Used Same as E2001	
J2001	Connector, Receptacle, Male 52/C	MS3102A32-414P
J2002	Connector, Receptacle, Male 37/C	JJ200-10-
J2003	Connector, BNC	JJ172
J2004	Same as J2003	
J2005	Jack Telephone	JJ116-10
K2001	Relay, Armature 3PDT (Ref Note 2)	RL168-3C10-24DC
K2002	Same as K2001	
K2003	Relay, Armature DPDT (Ref Note 2)	RL168-2C10-24DC
K2004	Relay, Armature 3PDT	RL168-3C10-24DC
K2005	Same as K2004	
L2001	Coil, RF	CL101-3
P2001	Connector, Plug, Female 24/C	MS3106B24-28S
P2002	Connector, Plug, Female 3/C	MS3106B16S-5S
P2003 thru P2005	Connector, Plug, BNC	PL244-1
R2001	Resistor, Fixed, Wirewound	RW110-21
R2002	Same as R2001	
S2001	Switch, Lever	SW186-3
TR2001	Terminal, Strip Barrier	TM102-4
XA2001	Connector, Receptacle, PC Board	JJ319-22DFE

EXCITER DRAWER (AX5168)

SYMBOL SERIES 2000 (cont)

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
XA2002	Same as XA2001	
XK2001	Socket, Relay	TS100-6
XK2002	Same as XK2001	
XK2003 thru XK2005	Socket, Relay	TS101-P01
<p>A2001 TUNING CONTROL BOARD (A-4834) (Ref Note 2)</p>		
REF SYMBOL	DESCRIPTION	TMC PART NUMBER
A2001C1	Capacitor, Fixed, Electrolytic	CE105-150-75
A2001C2	Capacitor, Fixed, Electrolytic	CE105-100-25
A2001C3	Capacitor, Fixed, Electrolytic	CE116-10VN
A2001CR1	Semiconductor, Device, Diode	1N2484
A2001CR2	Same as A2001CR1	
A2001CR3	Network	NW179
A2001CR4	Same as A2001CR1	
A2001K1	Relay, Armature DPDT	RL156-1
A2001K2	Relay, Armature DPDT	RL156-9
A2001K3	Same as A2001K1	
A2001K4	Relay, Armature 4PDT	RL156-10
A2001K5	Same as A2001K4	
A2001K6	Relay, Armature 4PDT	RL156-8
A2001K7	Relay, Armature 4PDT	RL156-15
A2001Q1	Transistor	2N492A
A2001R1	Resistor, Fixed, Composition	RC20GF221J
A2001R2	Resistor, Fixed, Composition	RC32GF221J
A2001R3	Same as A2001R2	
A2001R4	Resistor, Variable, Composition	RV111U254A
A2001R5	Same as A2001R1	
A2001TP1	Terminal, Stud	TE127-2
A2001TP2	Same as A2001TP1	
A2001XK1 thru A2001XK3	Socket, Relay with retainer	TS171-5
A2001XK4 thru A2001XK7	Socket, Relay with retainer	TS171-4

MAIN POWER PANEL ASSEMBLY (AX5169)
and
INPUT CHASSIS ASSEMBLY (AX5101)

SYMBOL SERIES 3000

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
A3001	Exciter Input Assembly (Ref Note 1)	A-4809
A3002	Transmitter Input Assembly (Ref Note 1)	A-4810
CB3001	Circuit Breaker, 3PST	SW448
CB3002A,B	Circuit Breaker, DPST	SW527
CB3002C	Circuit, Breaker, SPST	SW525
DS3001	Generator, Audio Signal	BZ101-2
F3001 thru F3003	Fuse, Cartridge	FU102-3
F3004	Fuse, Cartridge	FU102-5
F3005	Same as F3004	
F3006	Fuse, Cartridge	FU102-10
F3007	Same as F3004	
F3008	Fuse, Cartridge	FU102-1
J3001	Connector, Receptacle, Female	MS3102A32-7S
J3002	Connector, Receptacle, Male	MS3102A24-28S
J3003	Connector, Receptacle, Male	MS3102A32-7P
J3004	Connector, Receptacle, BNC	JJ172
M3001	Indicator, Elapsed Time (50 cycle oper)	MR198-2
M3001	Indicator, Elapsed Time (60 cycle oper)	MR198-1
M3002	Indicator, Elapsed Time (50 cycle oper)	MR198-2
M3002	Indicator, Elapse Time (60 cycle oper)	MR198-1
S3001	Switch, Toggle SPST	ST103-5-62
S3002	Switch, Toggle DPST	ST103-24-62
XF3001 thru XF3008	Fuseholder, Indicator	FH104-3
W3001	Wiring Harness, Branched	CA1520

METER PANEL ASSEMBLY (AX5165)

SYMBOL SERIES 4000

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
A4001	Overload Board (Ref Note 1)	A-4800
A4002	Same as A4001	
A4003	VSWR Board (Ref Note 1)	A-4802
A4004	Network (Ref Note 2)	NW161
C4001	Capacitor, Fixed, Ceramic	CC100-28
C4002 thru C4005	Capacitor, Fixed, Ceramic (Ref Note 2)	CC100-28
E4001	Terminal Board, Lug (Ref Note 2)	TM117-1
M4001	Ammeter, Screen	MR215-2
M4002	Ammeter, Plate	MR215-1
M4003	Ammeter, Load Sense (Ref Note 2)	MR191-15
M4004	Ammeter, Reflected Power	MR214
M4005	Ammeter, Output Power	MR213
R4001	Resistor, Fixed, Composition (Ref Note 2)	RC20GF682J
A4001		
OVERLOAD BOARD ASSEMBLY (A-4800)		
REF SYMBOL	DESCRIPTION	TMC PART NUMBER
A4001C1	Capacitor, Fixed, Electrolytic	CE105-50-15
A4001C2	Capacitor, Fixed, Ceramic	CC100-28
A4001C3	Same as A4001C2	
A4001CR1	Semiconductor, Device, Diode	1N2484
A4001DS1 thru A4001DS3	Lamp, Incandescent	B1101-1820
A4001E1 thru A4001E5	Terminal, Stud	TE127-3
A4001Q1	Transistor	2N1595
A4001R1	Resistor, Fixed, Composition	RC20GF121J
A4001R2	Resistor, Fixed, Composition	RC20GF122J
A4001R3	Resistor, Fixed, Composition	RC20GF102J
A4001XDS1 thru A4001XDS3	Lampholder	TS107-4

A3001

EXCITER INPUT ASSEMBLY (A-4809)

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
A3001C1 thru A3001C30	Capacitor, Fixed, Ceramic	CC100-42
A3001E1 thru A3001E80	Terminal, Stud	TE127-2
A3001L1 thru A3001L10	Coil, RF, Fixed	CL240-120
<p>A3002</p> <p>TRANSMITTER INPUT ASSEMBLY (A-4810)</p>		
REF SYMBOL	DESCRIPTION	TMC PART NUMBER
A3002C1 thru A3002C17 A3002C18 A3002C19 thru A3002C34	Capacitor, Fixed, Ceramic Not Used Same as A3002C1	CC100-42
A3002CR1 A3002CR2	Semiconductor, Device, Diode Same as A3002CR1	1N914
A3002E1 thru A3002E58 A3002E59 A3002E60 thru A3002E81	Terminal, Stud Not Used Same as A3002E1	TE127-2
A3002L1 A3002L2 A3002L3	Coil, RF, Fixed Not Used Same as A3002L1	CL240-120

A4003

VSWR BOARD (A-4802)

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
A4003C1 A4003C2 thru A4003C12	Capacitor, Fixed, Electrolytic Capacitor, Fixed, Ceramic	CE105-50-15 CC100-28
A4003CR1 A4003CR2 A4003CR3 A4003CR4	Semiconductor, Device, Diode Same as A4003CR1 Semiconductor, Device, Diode Same as A4003CR3	1N2484 1N270
A4003DS1 thru A4003DS3	Lamp, Incandescent	B1101-1820
A4003E1 thru A4003E13	Terminal, Stud	TE127-3
A4003K1	Relay, Armature DPDT	RL156-9
A4003Q1	Transistor	2N1595
A4003R1 A4003R2 A4003R3	Resistor, Fixed, Composition Resistor, Fixed, Composition Resistor, Fixed, Composition	RC20GF121J RC20GF122J RC20GF102J
A4003XDS1 thru A4003XDS3	Lampholder	TS107-4
A4003XK1	Socket, Relay with retainer	TS171-5

MAIN CONTROL PANEL (AX5166)

SYMBOL SERIES 5000

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
A5001 A5002	Band Indicator Assembly (Ref Note 1) Power Level Indicator Assembly (Ref Notes 1, 2)	A-4791 A-4806
C5001 thru C5006 C5007	Capacitor, Fixed, Ceramic	CC100-28
DS5001 thru DS5003	Lamp, Incandescent	BI110-7
DS5004 DS5005 thru DS5014	Lamp, Incandescent (Ref Note 2) Lamp, Incandescent	BI110-7 BI116-1-5
DS5015 thru DS5018	Lamp, Incandescent (Ref Note 2)	BI116-1-5
R5001 R5002	Resistor, Variable, Composition (Ref Note 3) Resistor, Fixed, Composition (Ref Note 3)	RV4NAYSA102A RC20GF102J
S5001 S5002 S5003 S5004 S5005 S5006 S5007 S5008	Switch, Push Switch, Toggle DPDT (Ref Note 2) Switch, Lever (Ref Note 2) Switch, Lever Same as S5003 Switch, Lever (Ref Note 2) Switch, Push (Ref Note 2) Switch, Interlock	SW522-1 ST103-24-62 SW523-3 SW523-1 SW523-2 SW522-2 SW230
XDS5001 XDS5002 XDS5003 XDS5004	Part of S5001 Light, Indicator Light, Indicator Part of S5007	TS153-13 TS153-8

A5001

BAND INDICATOR BOARD (A-4791)

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
A5001C1 thru A5001C10	Capacitor, Fixed, Ceramic	CC100-28
A5001E1 thru A5001E10	Terminal, Stud	TE127-2
A5001R1	Resistor, Fixed, Composition	RC42GF311J
<p>A5002</p> <p>POWER LEVEL INDICATOR ASSEMBLY (A-4806)</p> <p>(Ref Note 2)</p>		
REF SYMBOL	DESCRIPTION	TMC PART NUMBER
A5002C1 thru A5002C4	Capacitor, Fixed, Ceramic	CC100-28
A5002E1 thru A5002E5	Terminal, Stud	TE127-2
A5001R1	Resistor, Fixed, Composition	RC42GF331J

SECTION 7
DRAWINGS

7-1. INTRODUCTION

This section contains the schematic diagrams for the main unit and all drawers of the HFLA-10K linear amplifier. In addition, this section contains component location drawings for all printed circuit board assemblies.

Table 7-1 lists the manufacturer's engineering drawing numbers for all figures. Each drawing number is followed by a revision letter under which this equipment was manufactured.

TABLE 7-1. TMC ENGINEERING DRAWINGS

Figure Number	TMC Drawing Number
7-1	CK1946B
7-2	CK1954B
7-3	CK1955 B
7-4	CK1756B
7-5	CK1757A
7-6	CK1636B
7-7	CK1645C —
7-8	CK1646E —
7-9	CK1771A
7-10	CK1850C
7-11	A4835A
7-12	A4830A
7-13	A4831A
7-14	A4805B
7-15	A4855C
7-16	A4850-3B
7-17	A4832A
7-18	A4801A

TABLE 7-1. TMC ENGINEERING DRAWINGS (cont)

Figure Number	TMC Drawing Number
7-19	A4833D
7-20	A4807D
7-21	A4834B
7-22	A4809A
7-23	A4810A
7-24	A4800A
7-25	A4802A
7-26	A4791A
7-27	A4806A

HV CONTACTOR

HIGH VOLTAGE

E300

T301

E301

E302

E303

F3000-U

F3000-E

F3000-E

ALARM ON-OFF S3001

ON OFF ALARM S3001

F3000-E

PLATE TIME M3002

T

BLOWER 01 F3001 3a

BLOWER 02 F3002 3a

BLOWER 03 F3003 3a

MAIN POWER CB3001

EXCITER ON-OFF S3002 OFF

EXCITER AC F3000-B

E305

E306

E307

E308

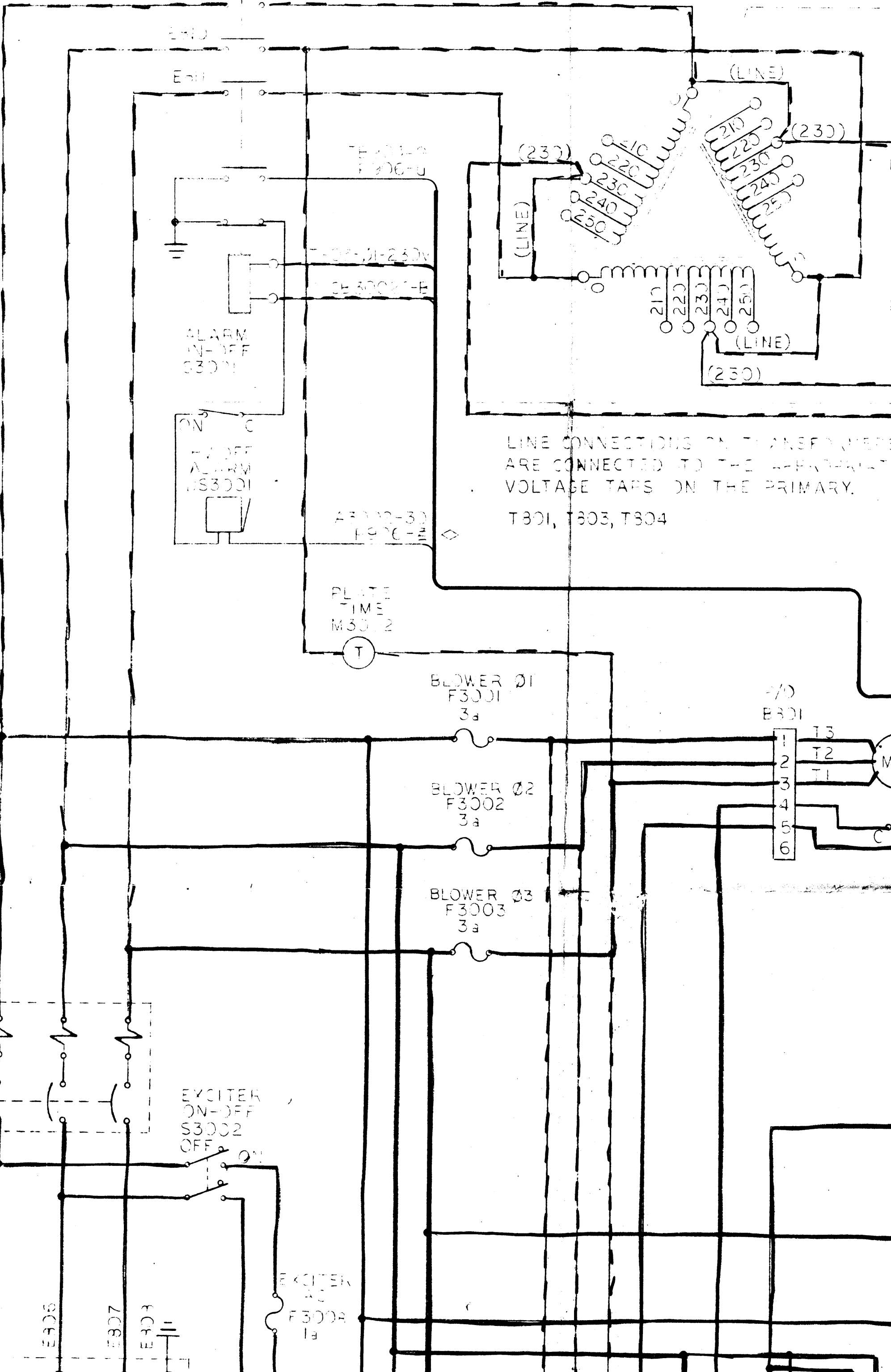
LINE CONNECTIONS ON TRANSFORMERS ARE CONNECTED TO THE APPROPRIATE VOLTAGE TAPS ON THE PRIMARY.

T301, T303, T304

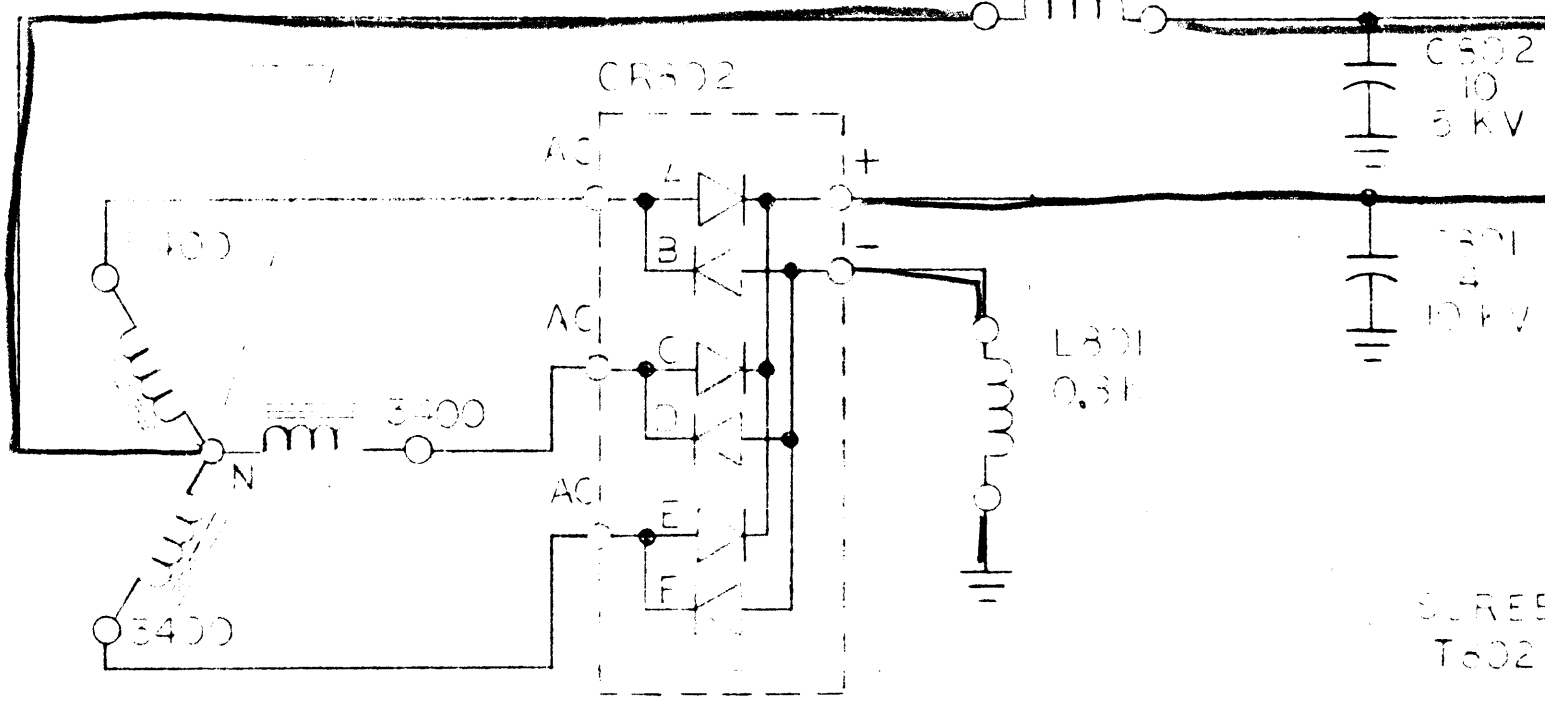
E301

T3 T2 T1

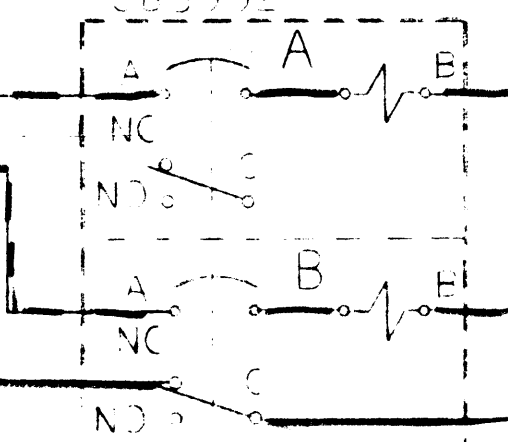
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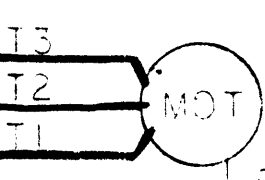
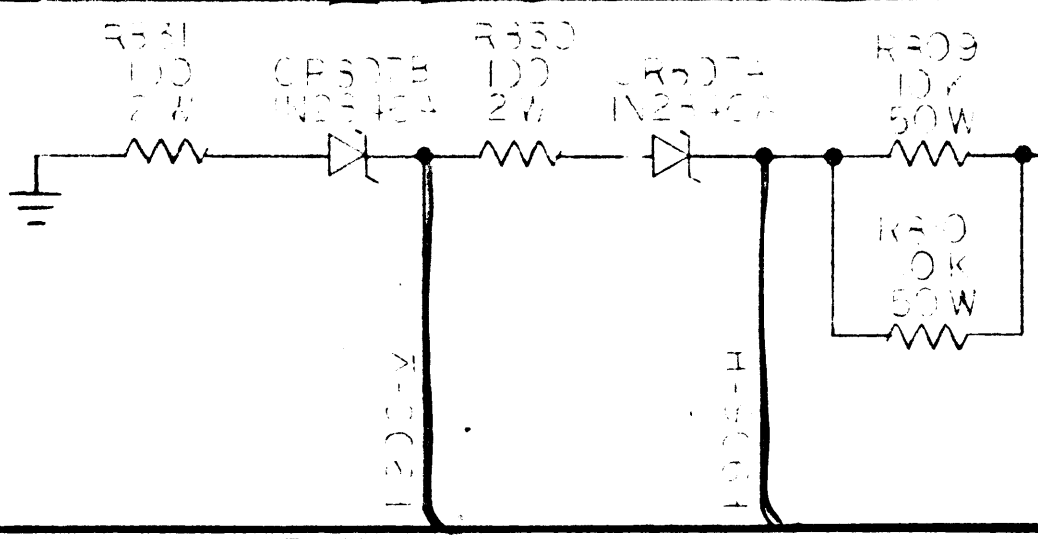
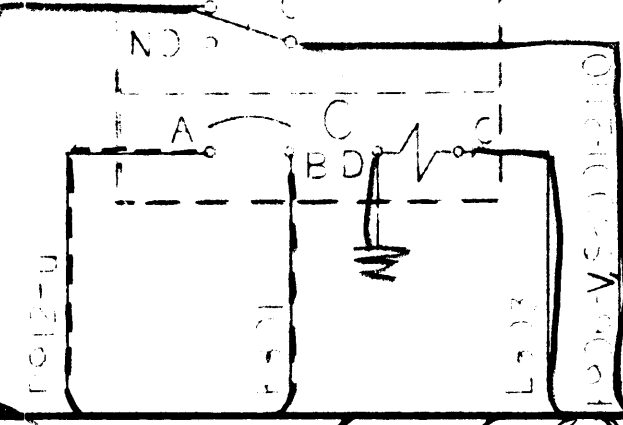
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5h



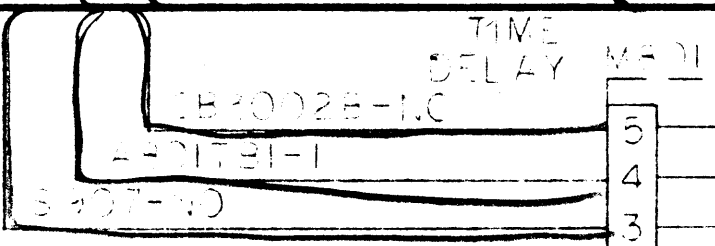
SCREENS
CB3002



2007-NC M301-5



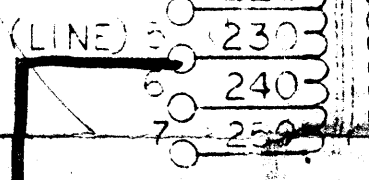
MAIN
BLOWER
B301



PA FILA
730

PA
FILAMENT
F3004
5a

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M3001

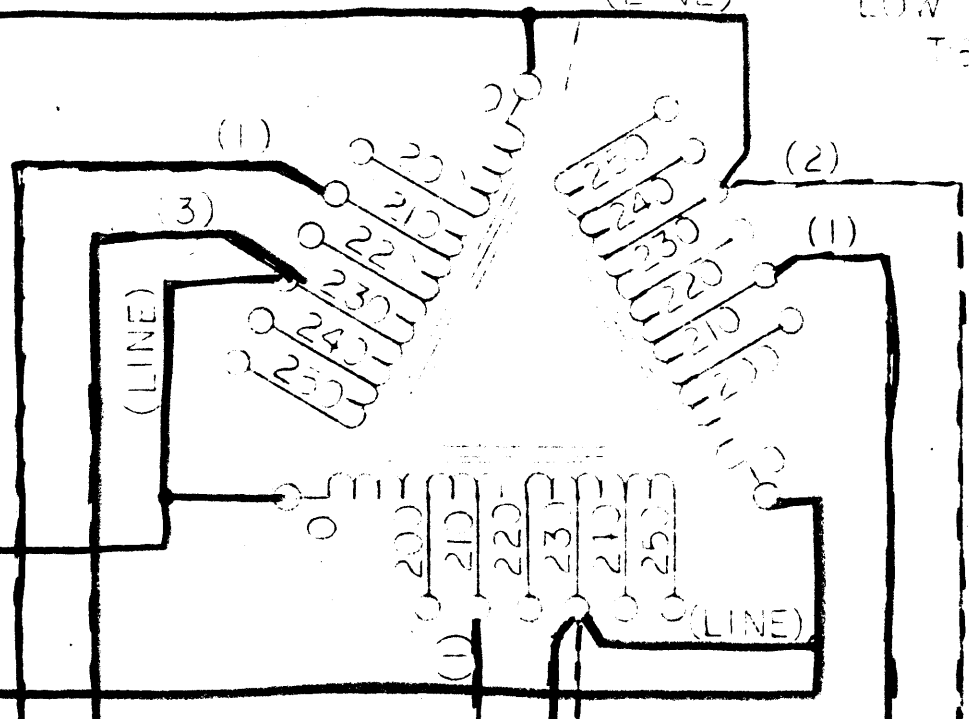


LOW VOLT
3
F3005
0.1

LOW VOLT
72
F3006
10.5

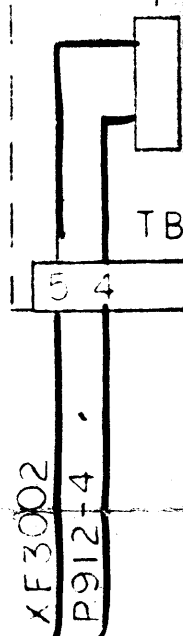
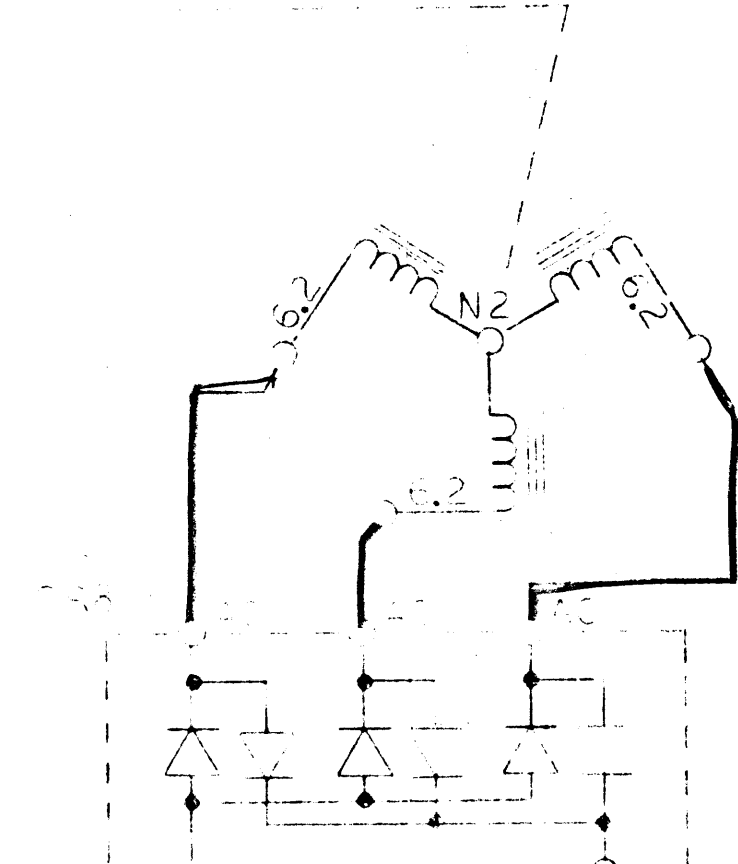
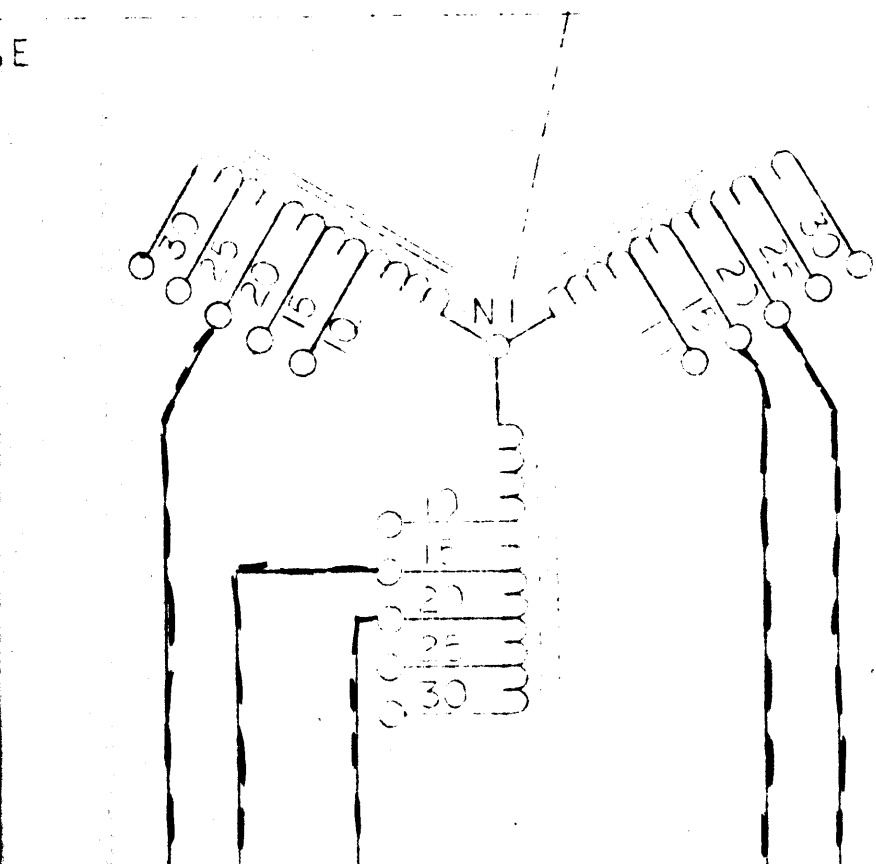
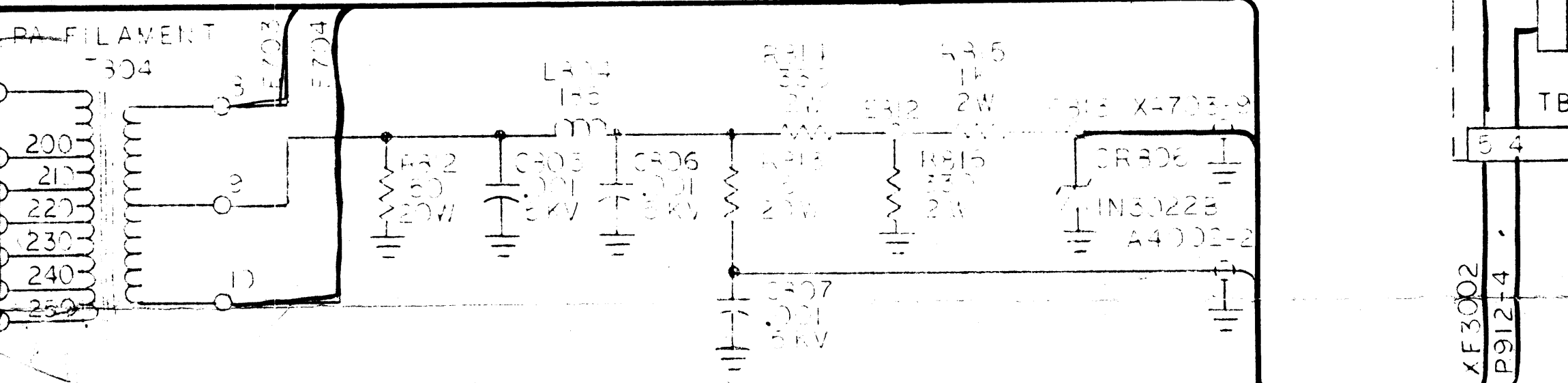
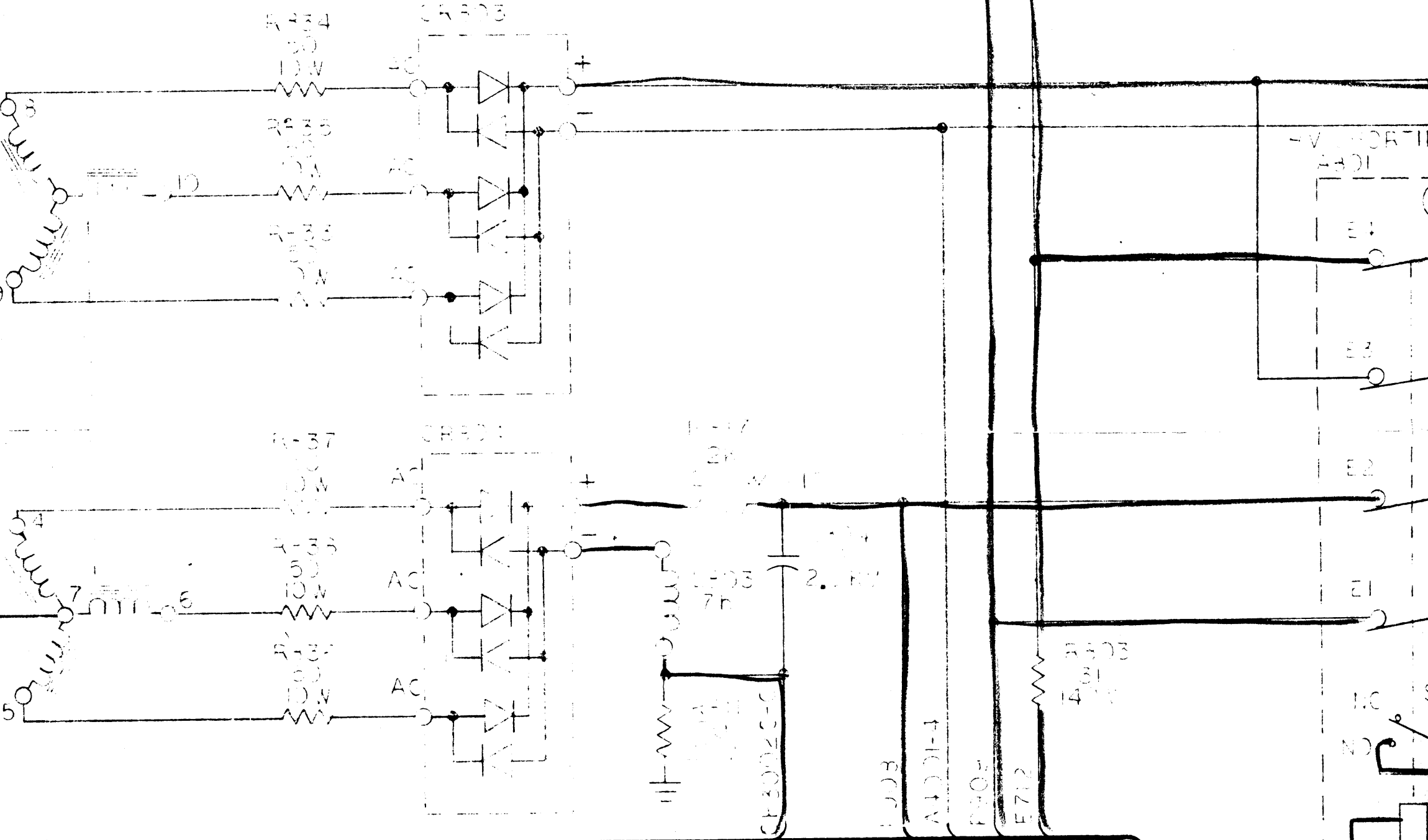
LOW VOLT
73
F3007
3.2

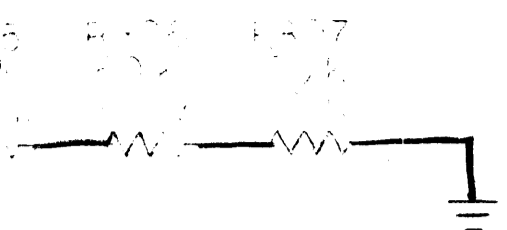
LOW VOLTAGE
T303



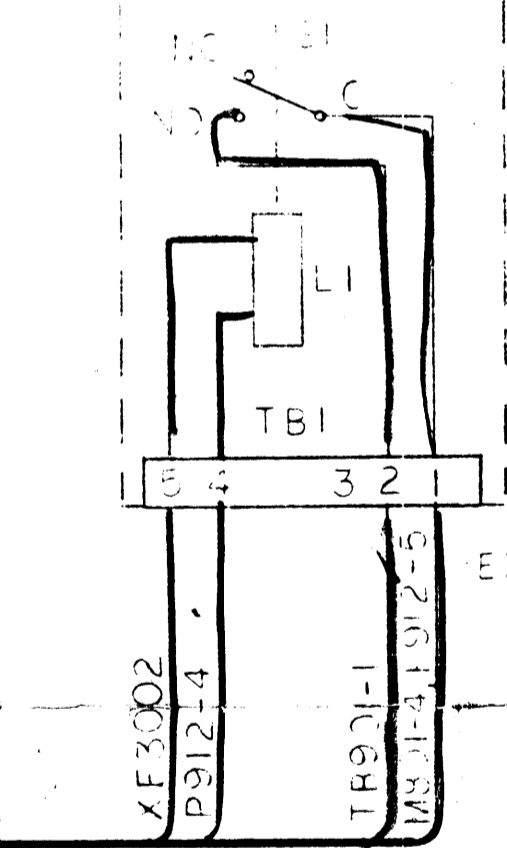
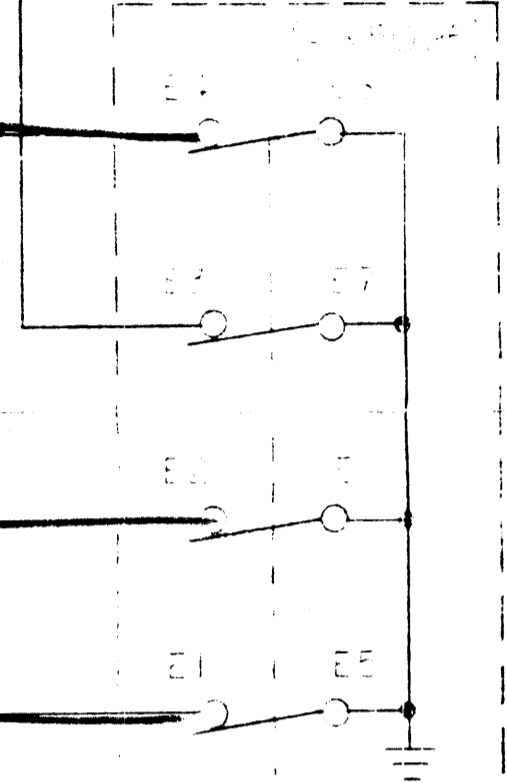
+ 3750V

R404 20W
R405 20W
R406 20W
R407 20W



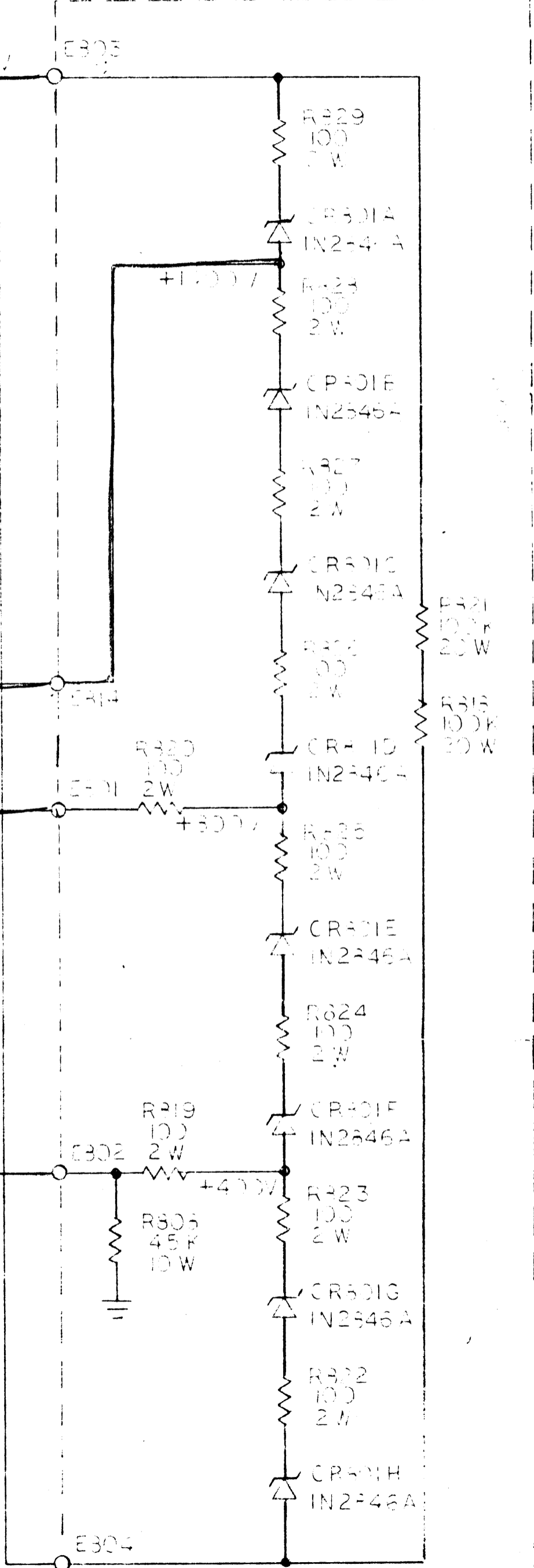
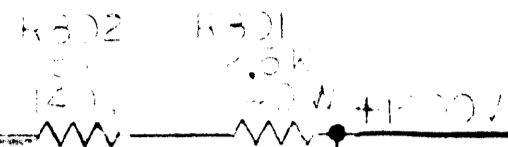


-V SEATING ASSEMBLY



E302

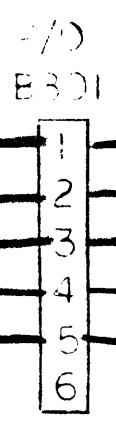
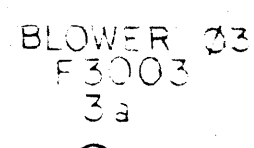
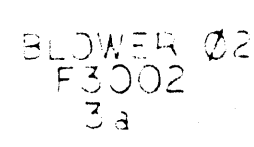
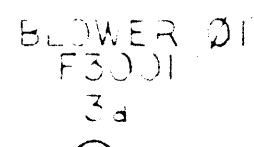
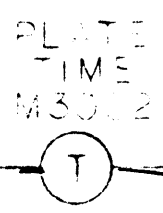
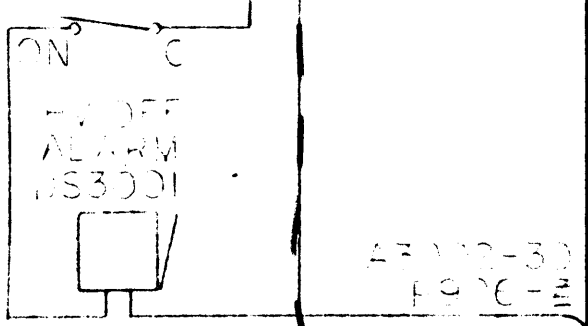
ZONE ASSEMBLY



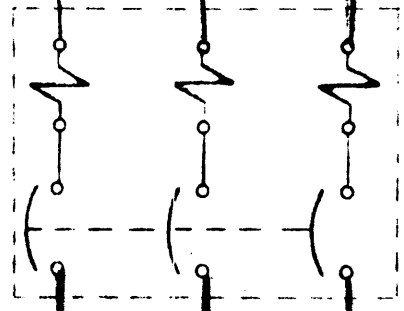
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LINE CONNECTIONS ON TRANSFORMERS ARE CONNECTED TO THE APPROPRIATE VOLTAGE TAPS ON THE PRIMARY.

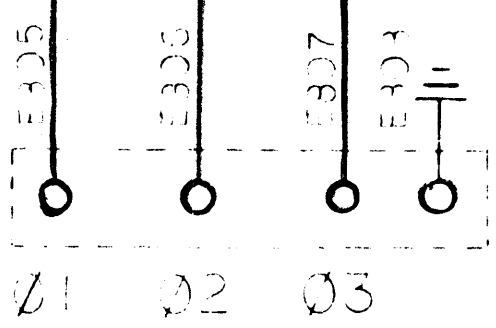
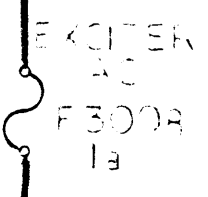
T801, T803, T804



MAIN POWER CB3001

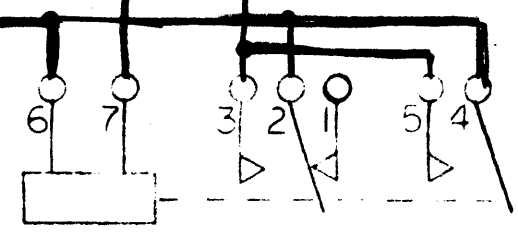


EXCITER ON-OFF S3002 OFF

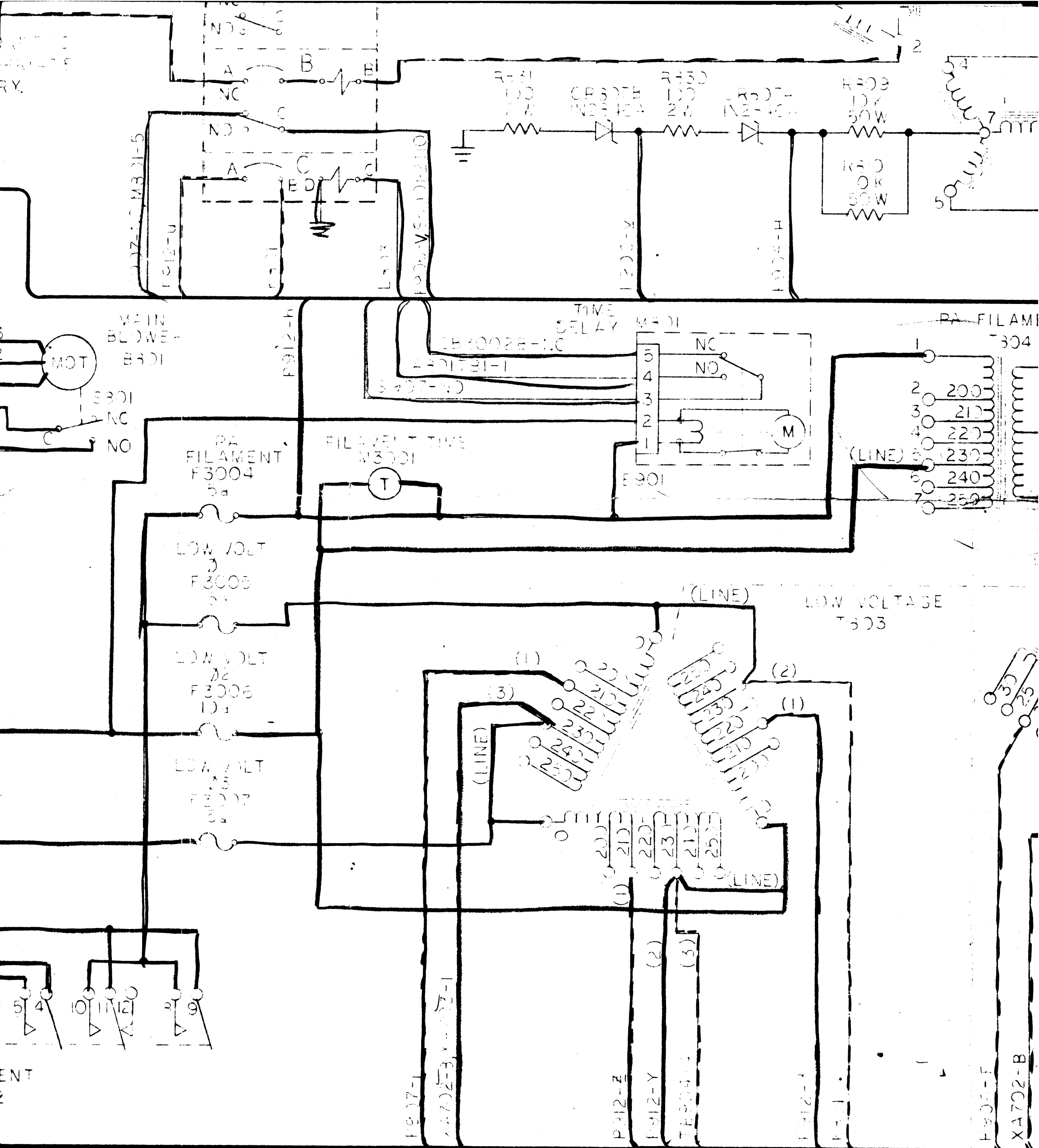


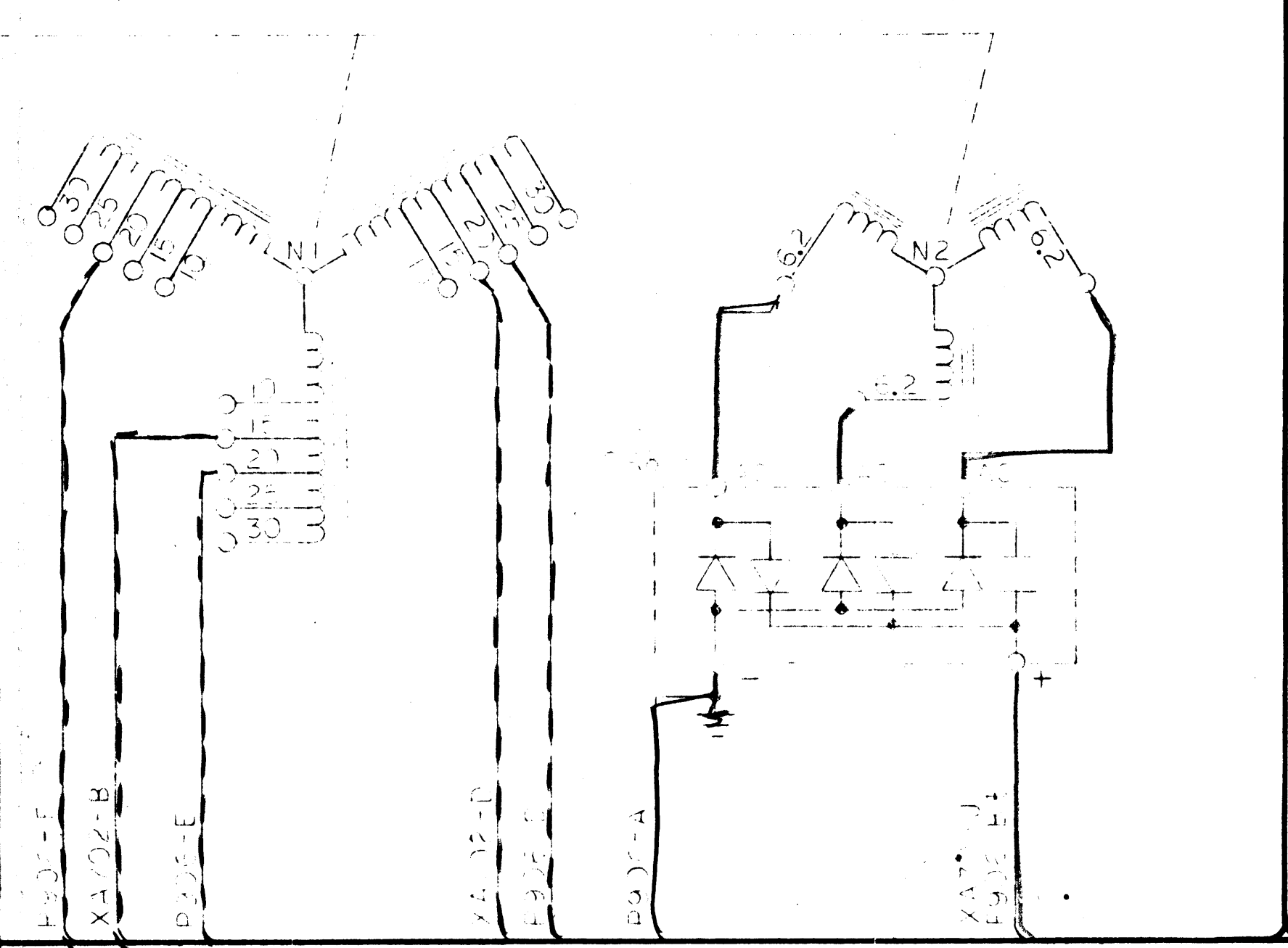
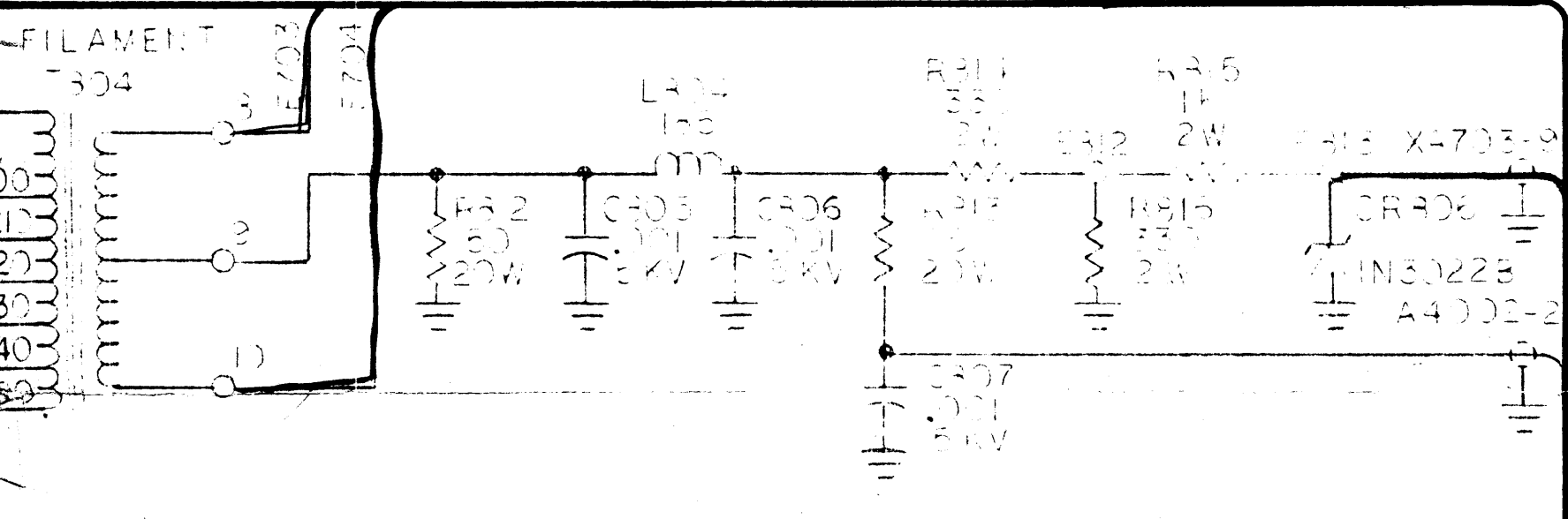
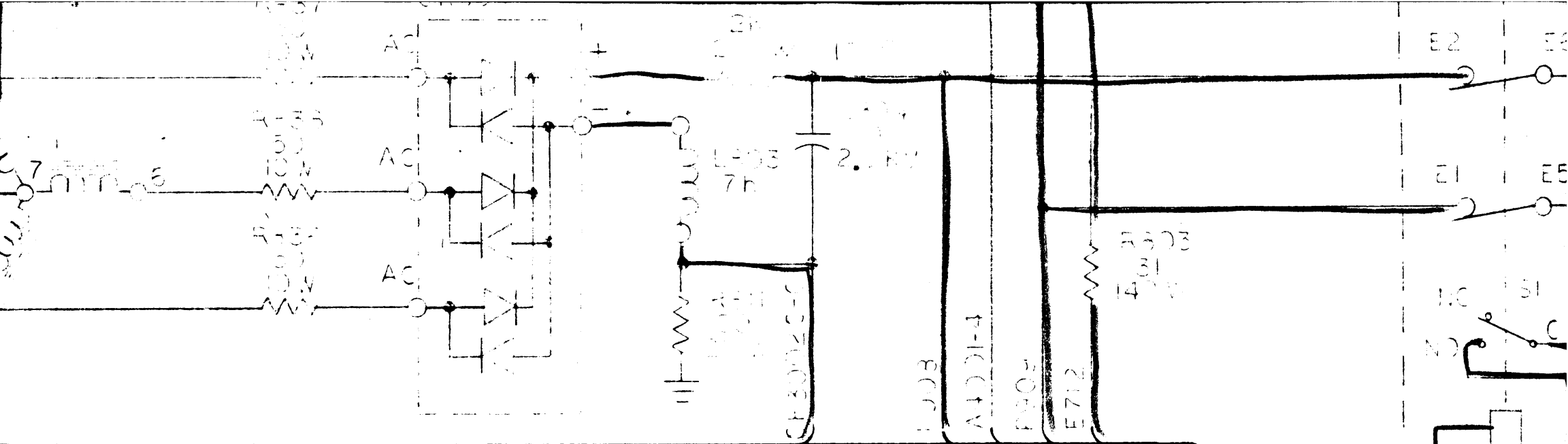
210-250 / 50/50 - z 3 2 INPUT

F913-G
F913-R
F914-3
F914-F
P916-W
J715-A, P915-B
F914-F, XF711
P913-S, P914-C
P916-S



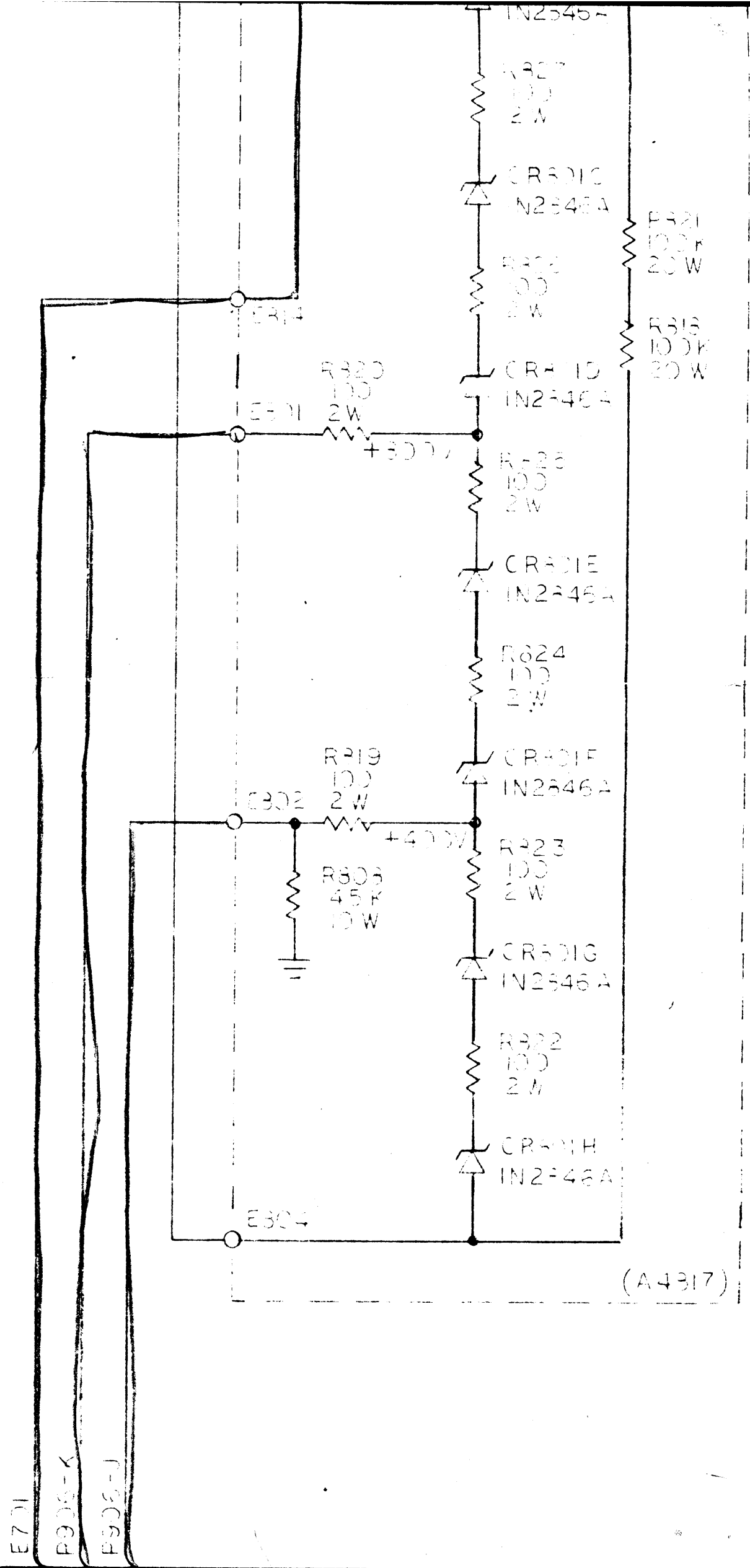
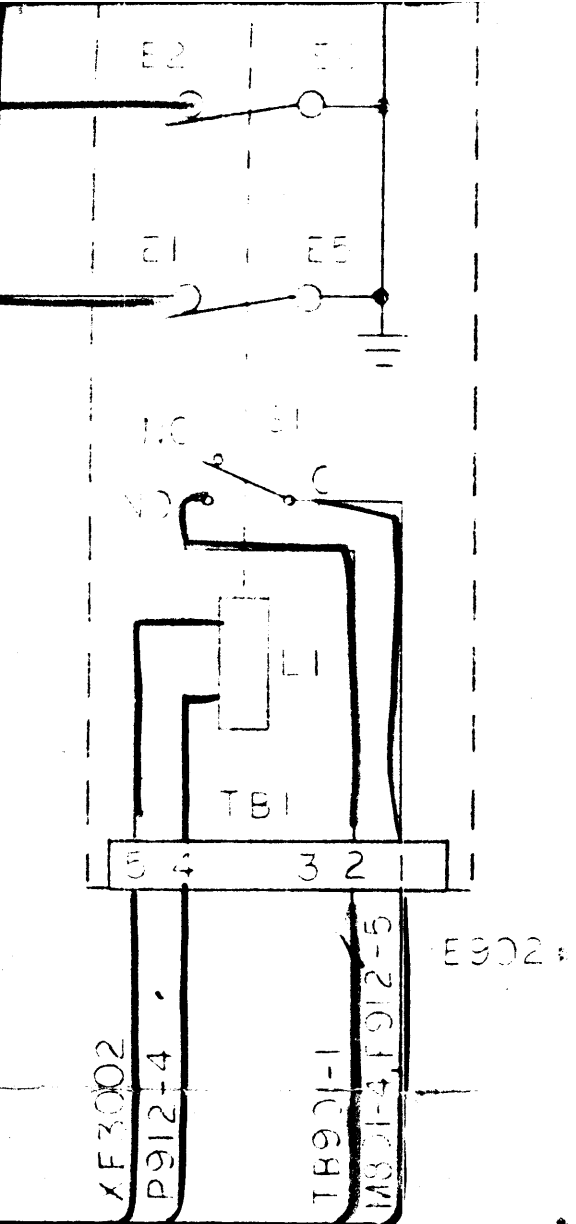
FILAMENT F802





REVISIONS							
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	B	REWORKED X-002 & S-001 TO REQUIRE...	FEB 13	21004	EP	EP	EP

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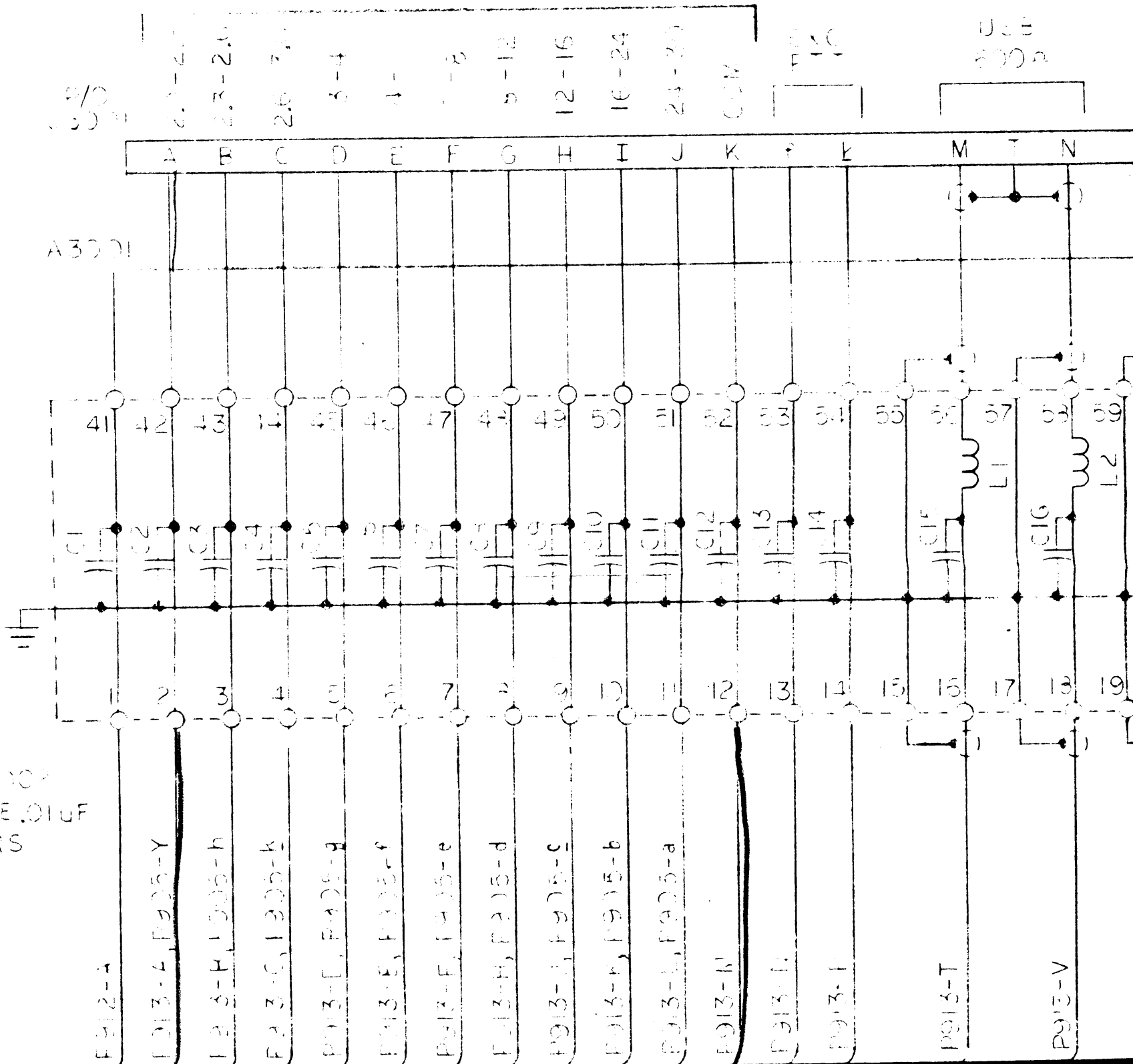
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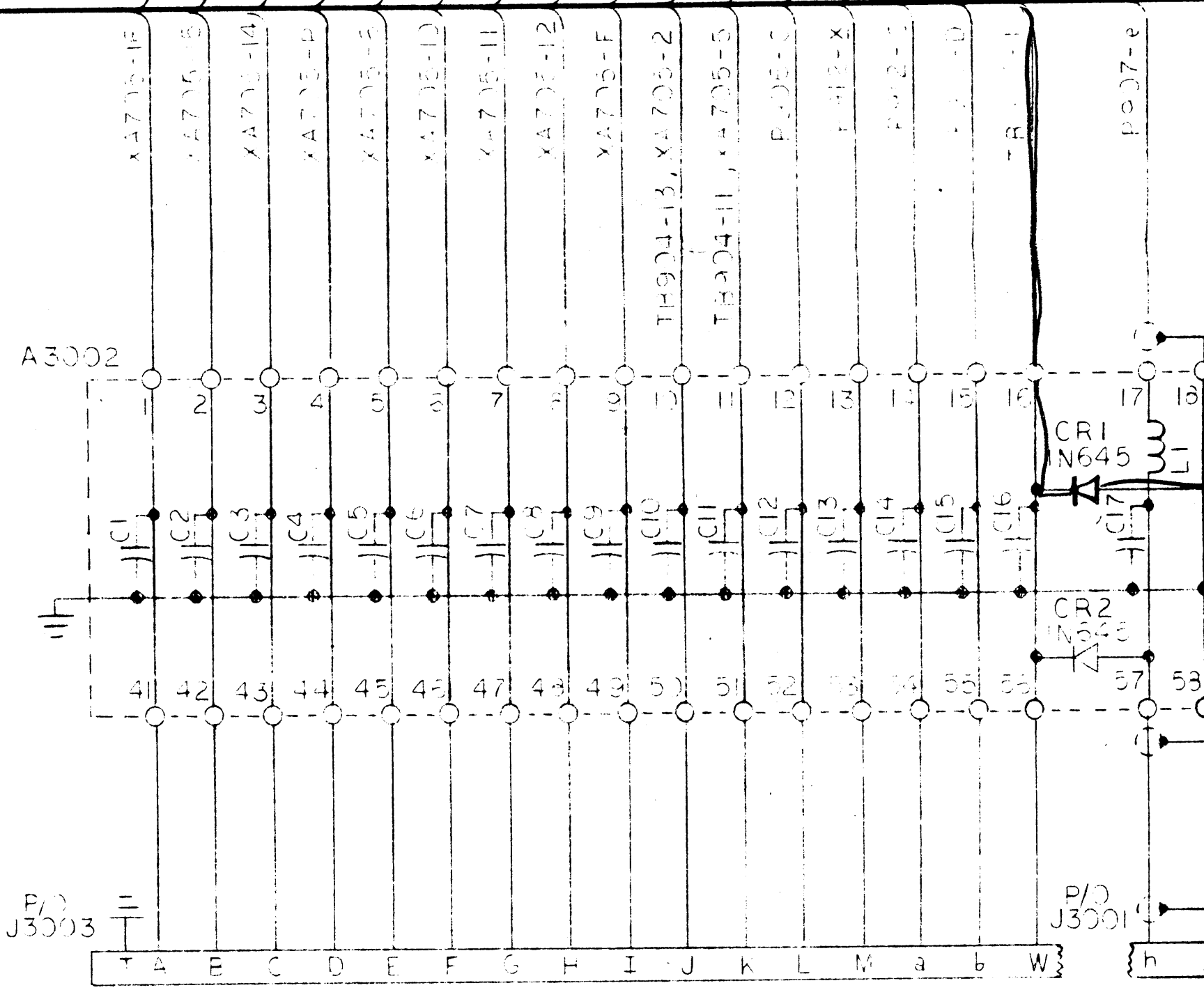
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MECH. DES.	DATE
ELECT. DES.	DATE
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CHECKED	DATE
DRAWN	DATE
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Figure 7-1. Schematic Diagram, HFL(-)10K
 (Sheet 1 of 5)

TRANSMITTER BANDS - WPZ



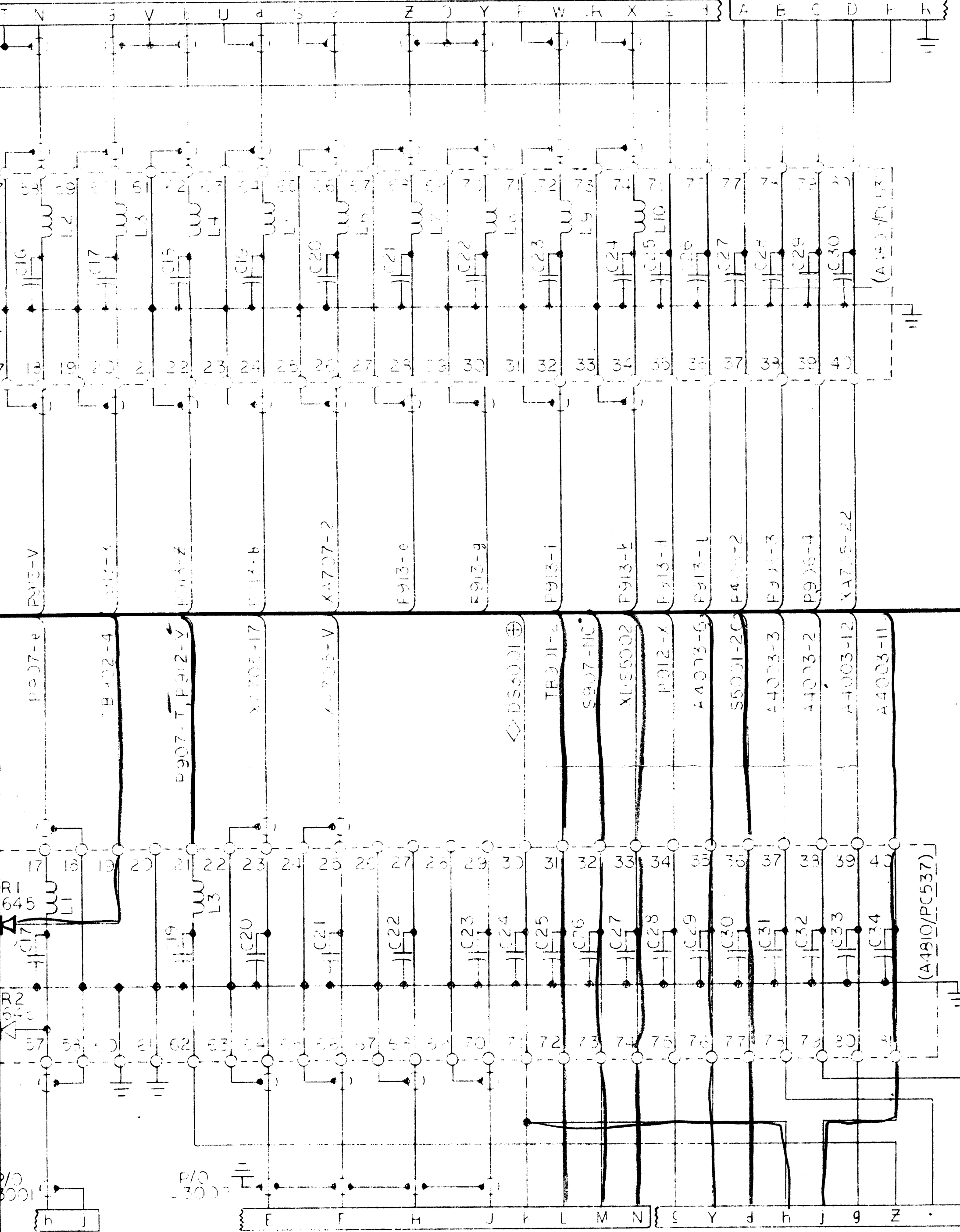
ON A3001 & A3101
 ALL CAPS ARE .01UF
 ALL INDUCTORS
 ARE 100UH



P/O J3003

P/O J3001

LS4
 -00A
 KEY
 -L10
 F1K
 FAX CONTACT ON
 CARRIER
 ACVR MUTE
 REM METER RELAY
 ZMTR
 PTT



P/O
 17002
 NOTE:
 ARE
 EXT
 ARE
 J
 J
 J
 J
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P/O 17001

P/O 17002

(A4810/PC537)

DRIVER DRAWER (AX5167 SFE CK1934)

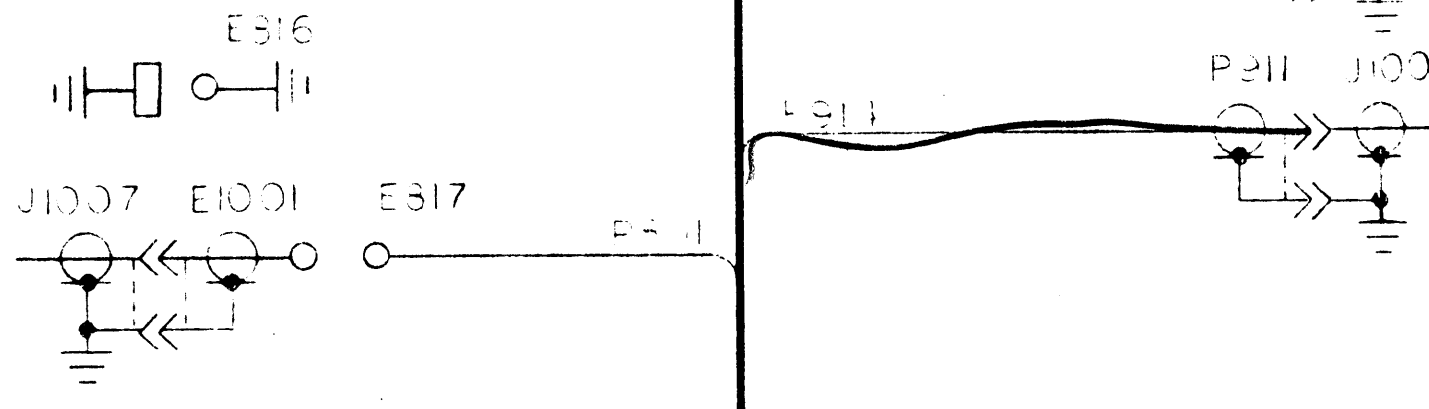
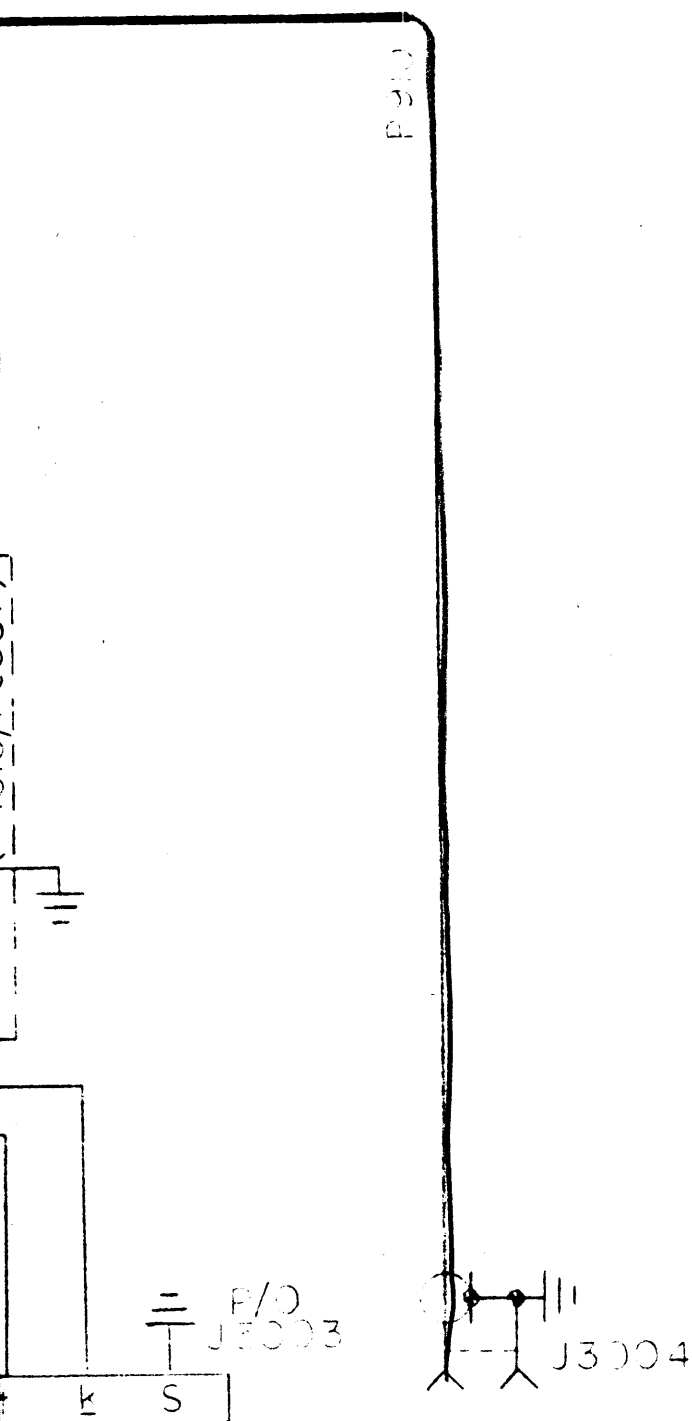
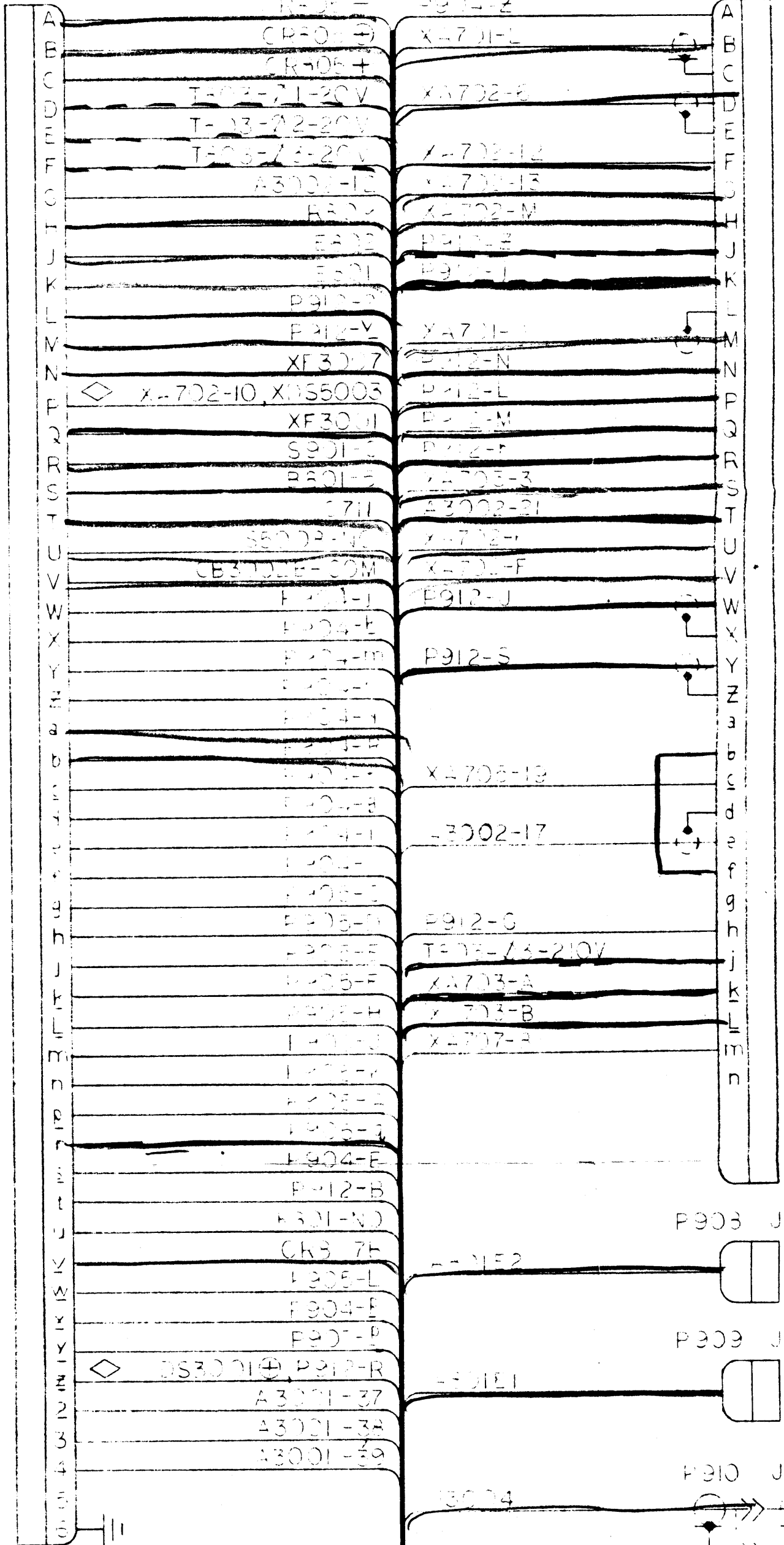
J1001 P906

P907 J1002

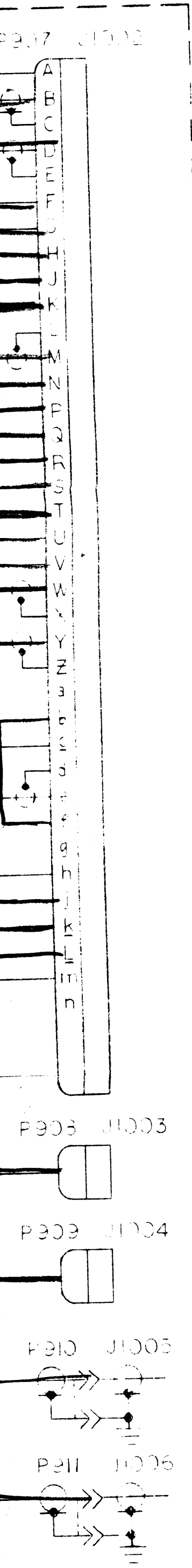
F/D
J3003

NOTE:
THE FOLLOWING PINS
ARE JUMPERED IF NO
EXTERNAL CONNECTIONS
ARE USED.

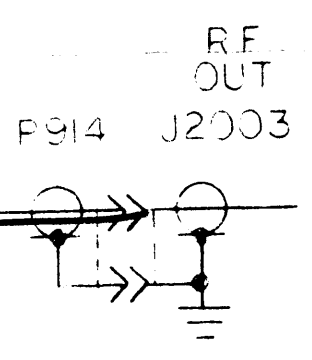
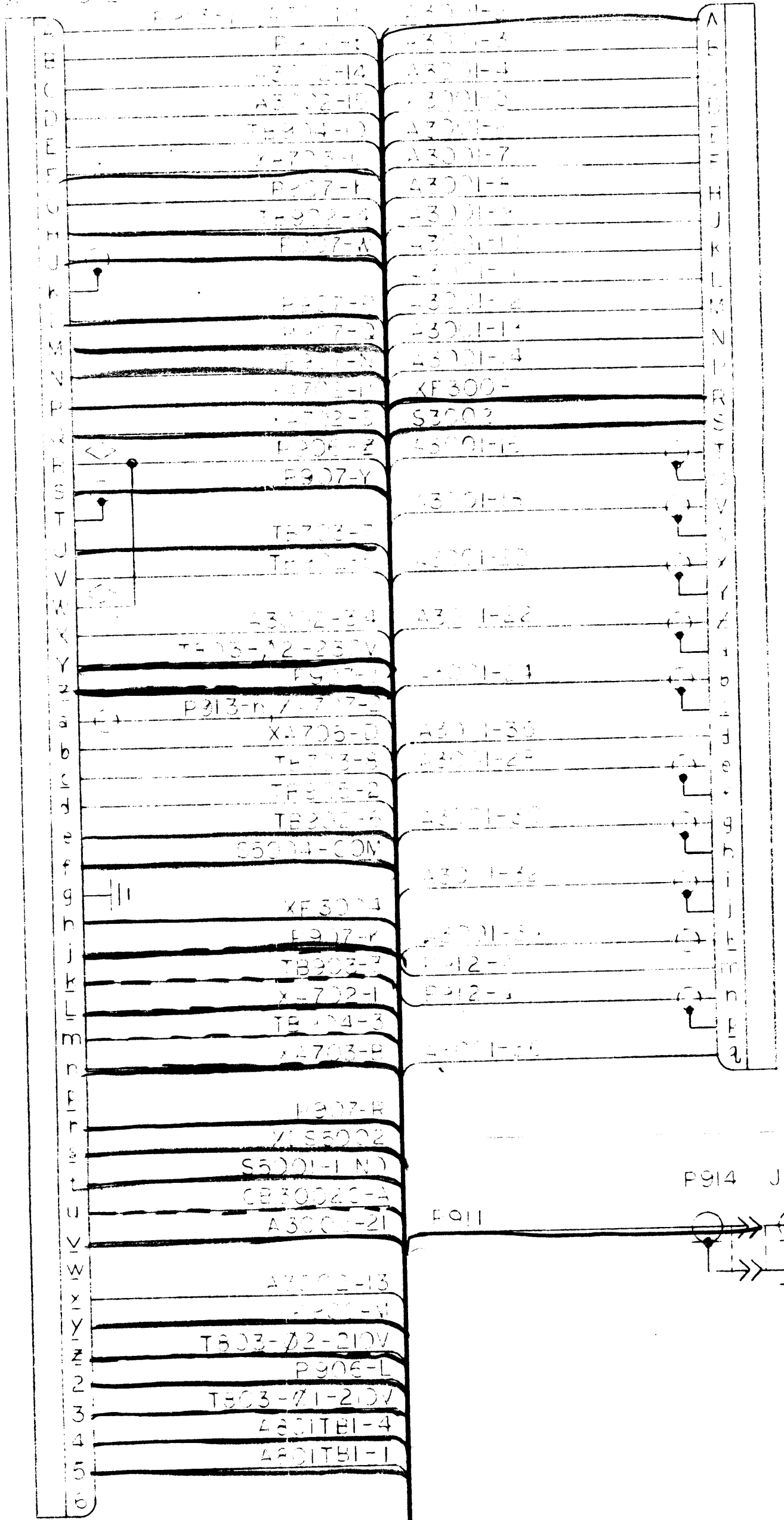
- J3002 PINS P & R
- J3002 PINS L & N
- J3003 PINS K & L
- J3003 PINS S & Y
- J3003 PINS d & n



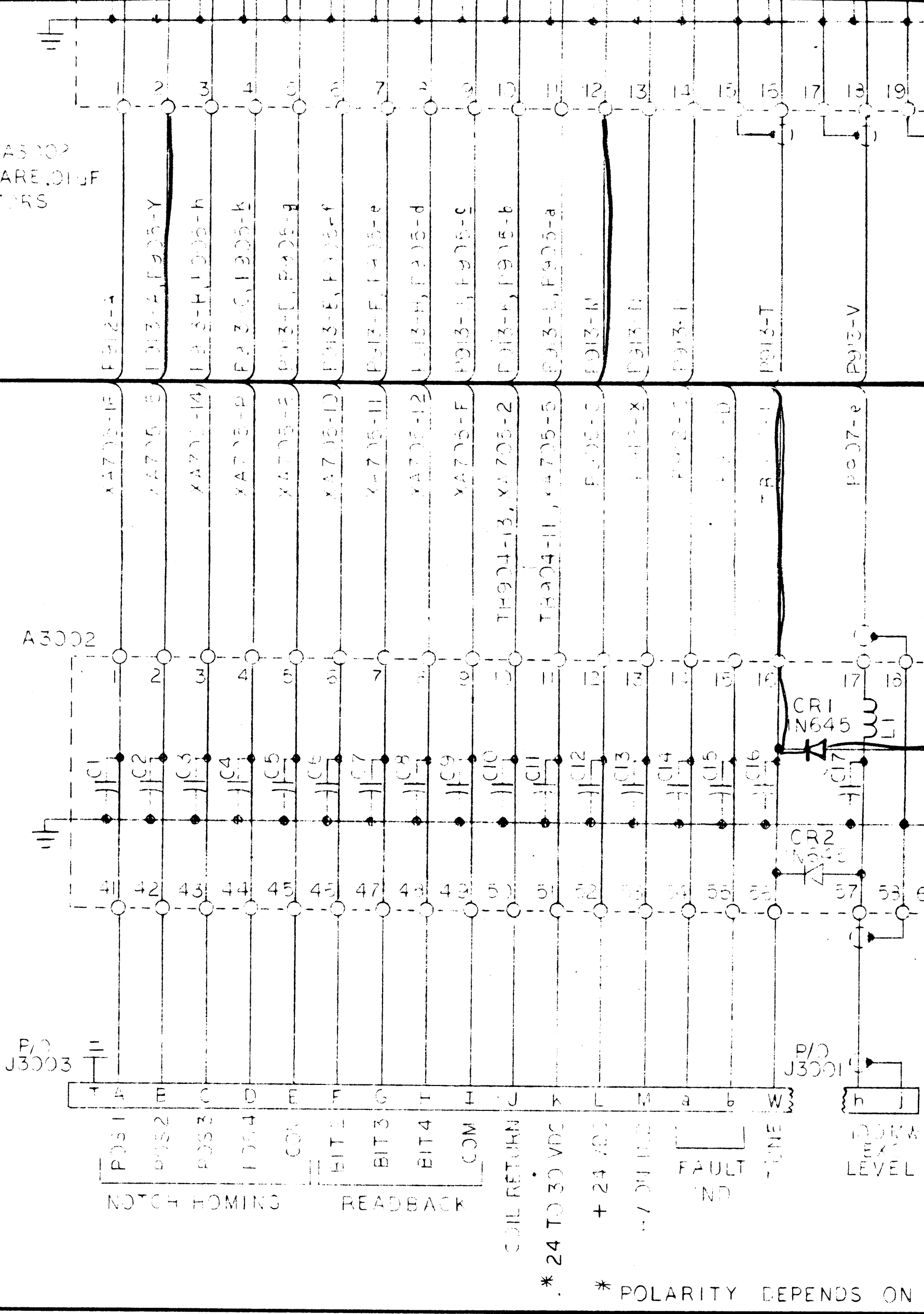
EXCITER DRAWER (AY5108 SEE CK1985)



J2001 P92 J2002 P913 J2003



ON A3001 & A3002
 ALL CAPS ARE .01UF
 ALL INDUCTORS
 ARE 100UH



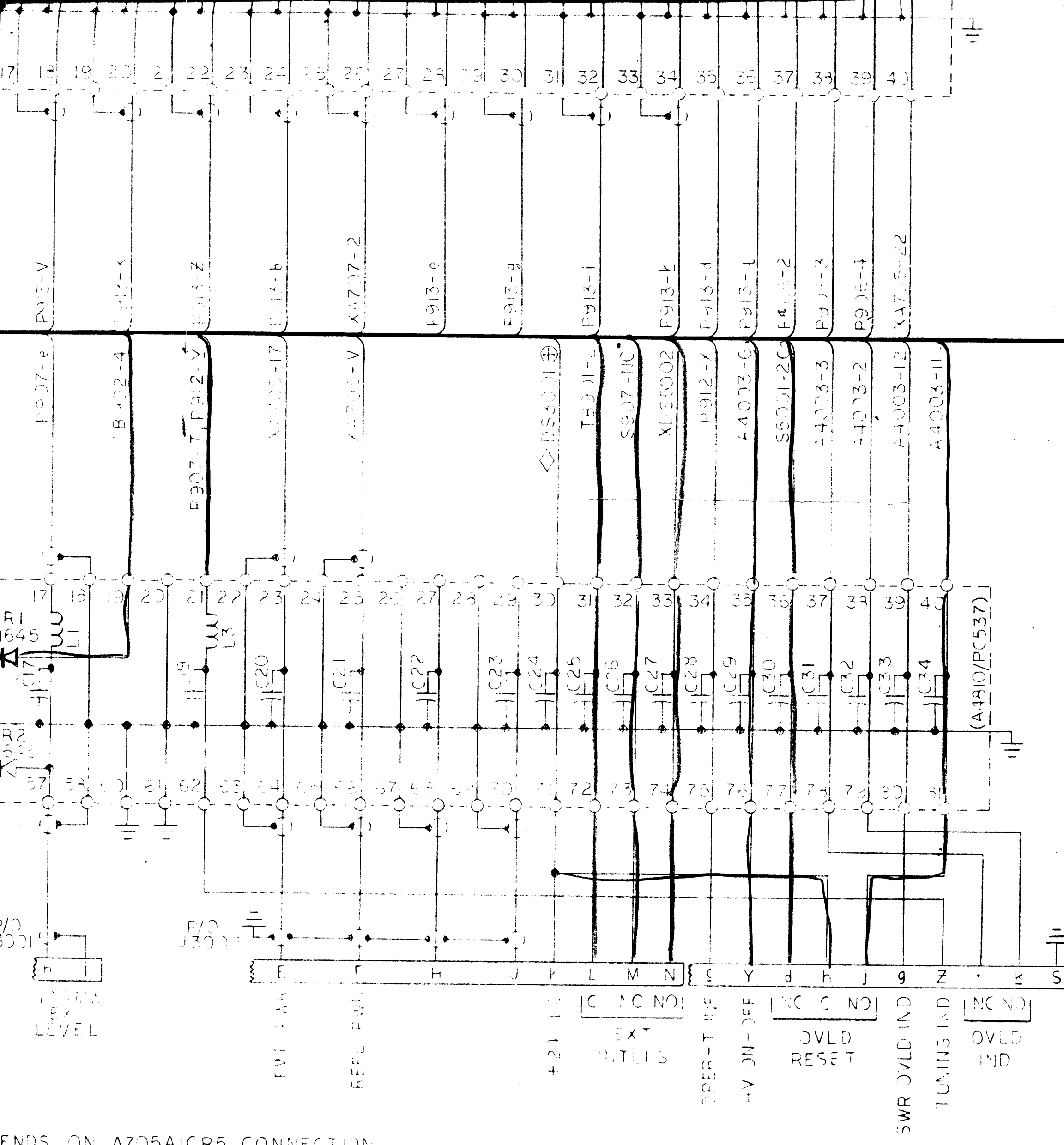
TO SH.1

700		MISS SYM
LAST SYMBOLS		
A705	P704	C743,49
B701	R703	
C750	S701	E705,6,13
CP702	T701	
CR702	TB703	J705
DC701	V701	L710
E717	XA707	
F701	XF701	
J706	XV701	
L711		XA704,6

A701		MISS SYM
LAST SYM		
C15		
CR1		
E4		
L3		
R15		
V2		
XV2		

A704		MISS SYM
LAST SYM		
A1		
B1		
C4		
L3		
P1		
S1		

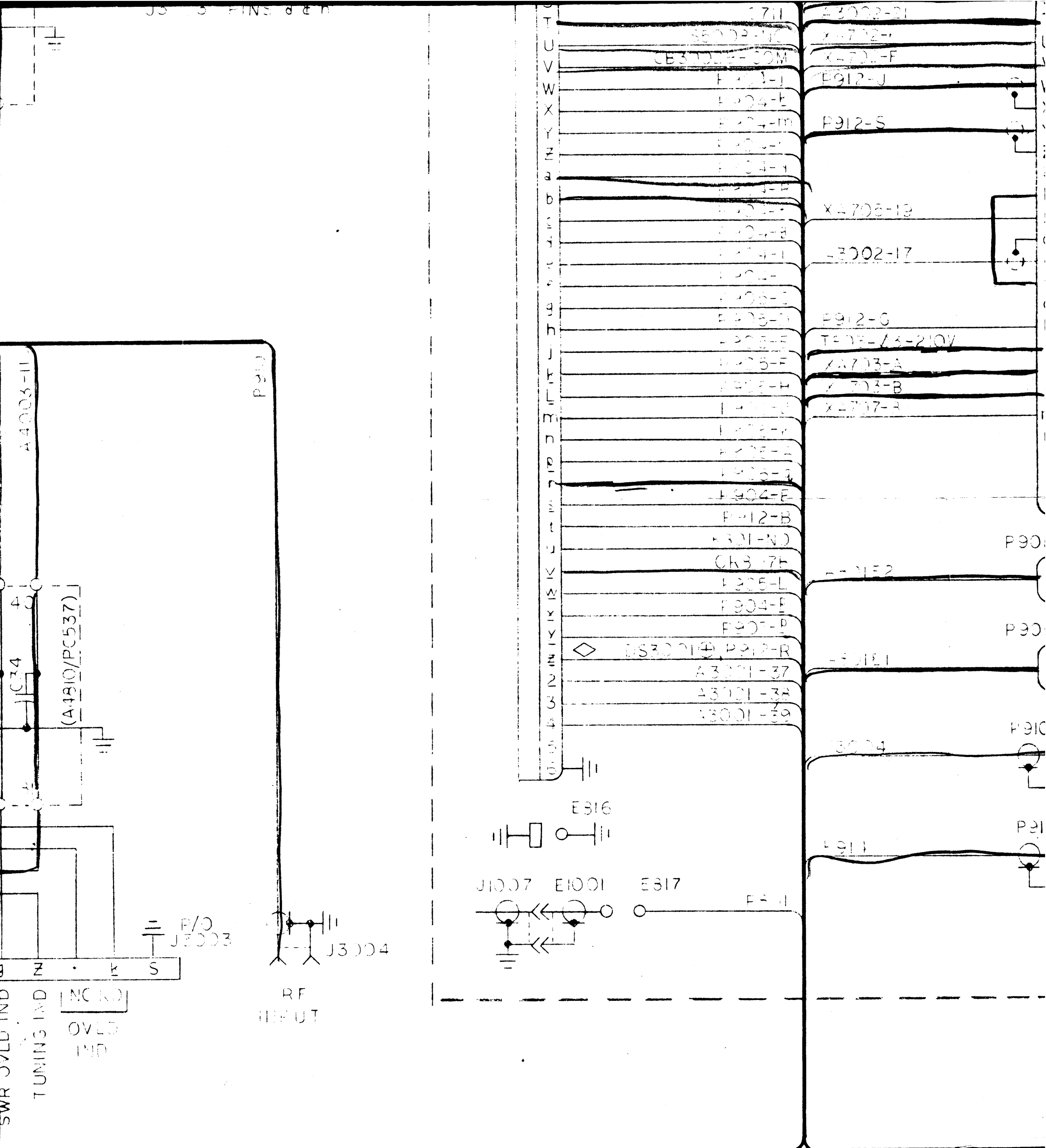
A		MISS SYM
LAST SYM		
C3		
CR1		
E3		
R2		



ENDS ON A705AICR5 CONNECTION.

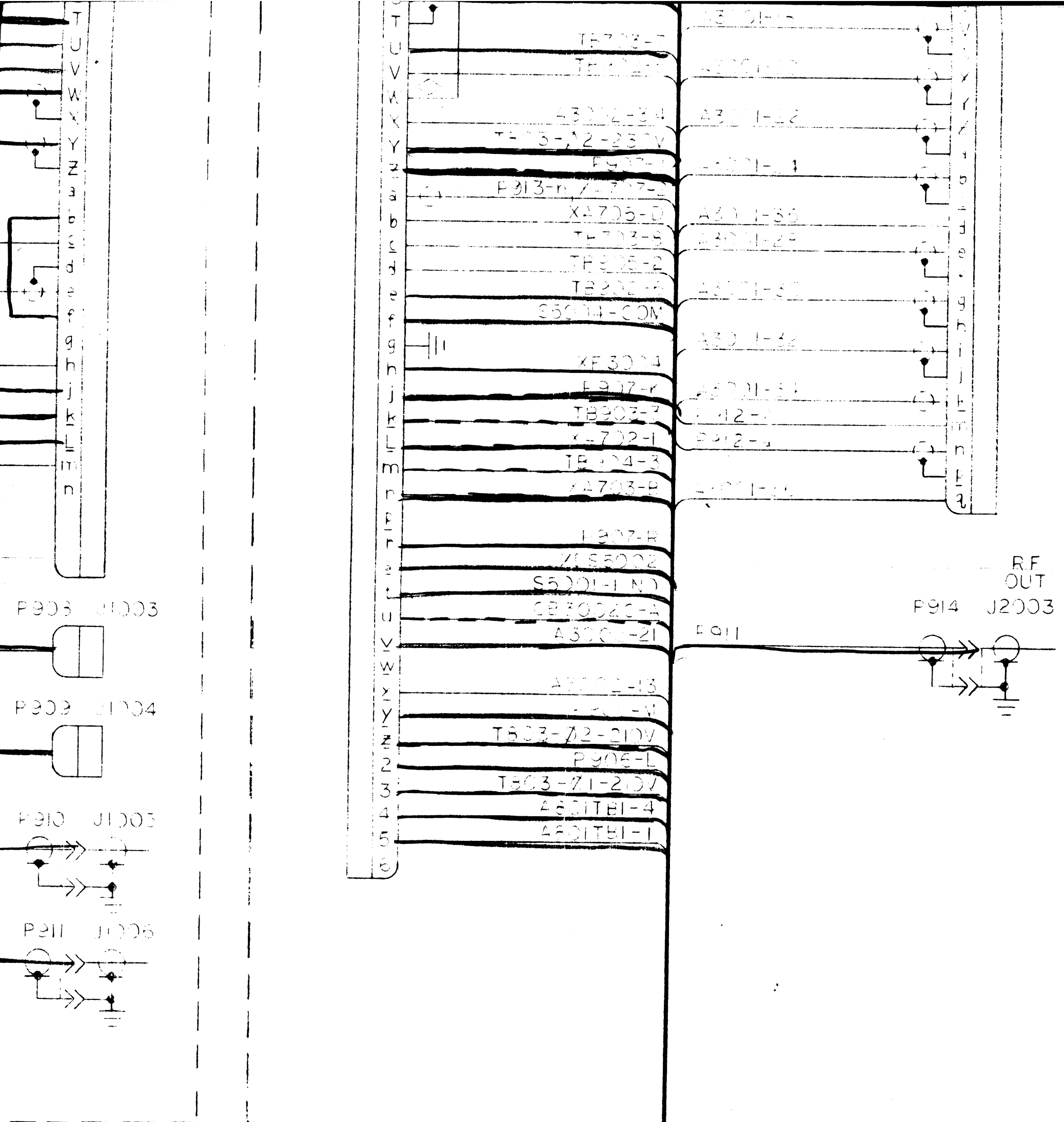
A715	
LAST SYM.	MISS SYM.
C3	
CRI	
P12	

- 385 - 1.0001 R1STF
- 386 - 1.0001 R1STF
- 387 - 1.0001 R1STF
- 388 - 1.0001 R1STF
- 389 - 1.0001 R1STF
- 390 - 1.0001 R1STF
- 391 - 1.0001 R1STF
- 392 - 1.0001 R1STF
- 393 - 1.0001 R1STF
- 394 - 1.0001 R1STF
- 395 - 1.0001 R1STF
- 396 - 1.0001 R1STF
- 397 - 1.0001 R1STF
- 398 - 1.0001 R1STF
- 399 - 1.0001 R1STF
- 400 - 1.0001 R1STF



REVISIONS							
ZONE	LTR	DESCRIPTION	DATE	E.M.N.NO	DRAFT	CHKD	APPD
	A		9-17-72		EP		
	B	ADD JUMPER A 3300 OHM POTENTIAL POINTS (SEE FIG. 21004)	7-1-72	21004	WII	WII	WII

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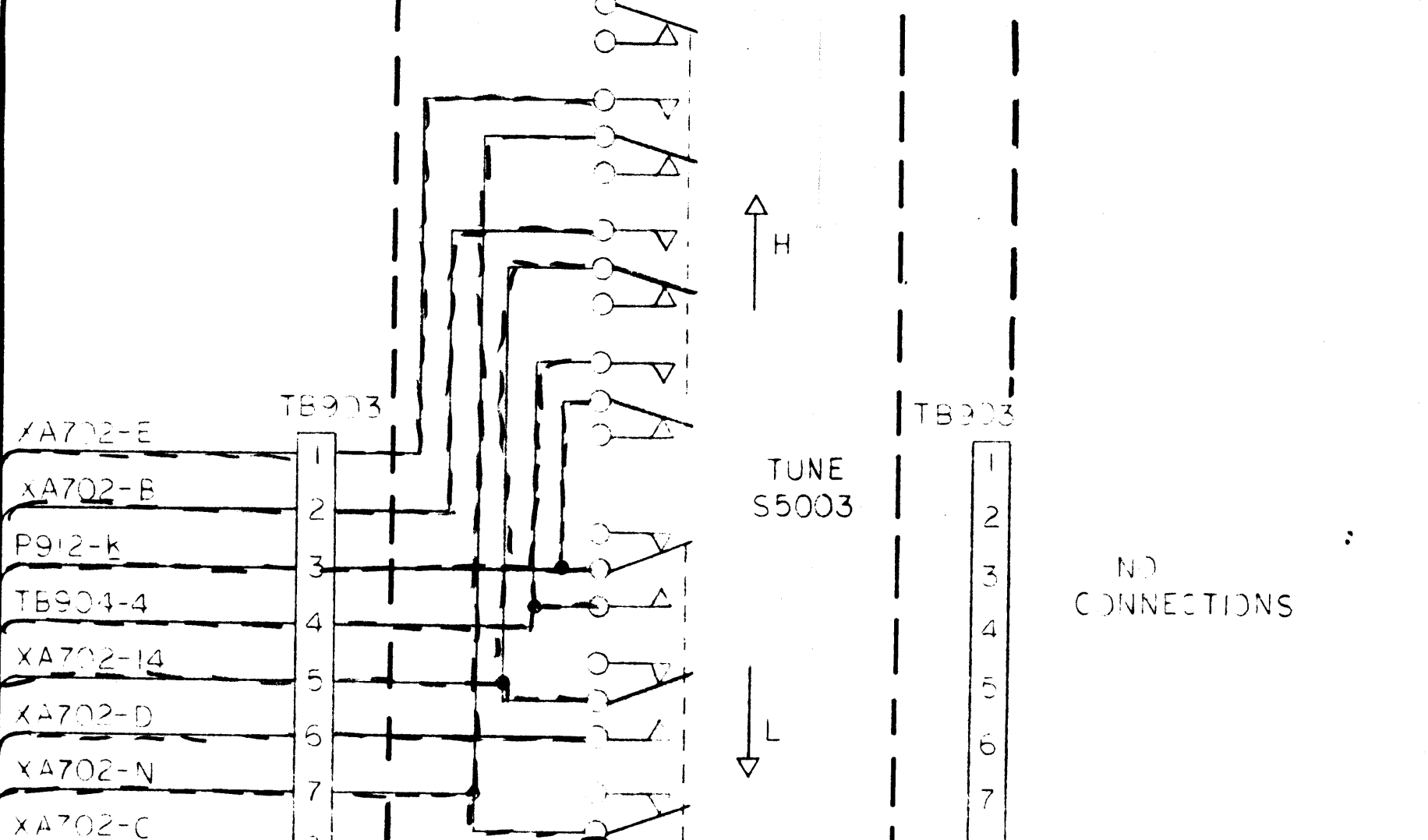
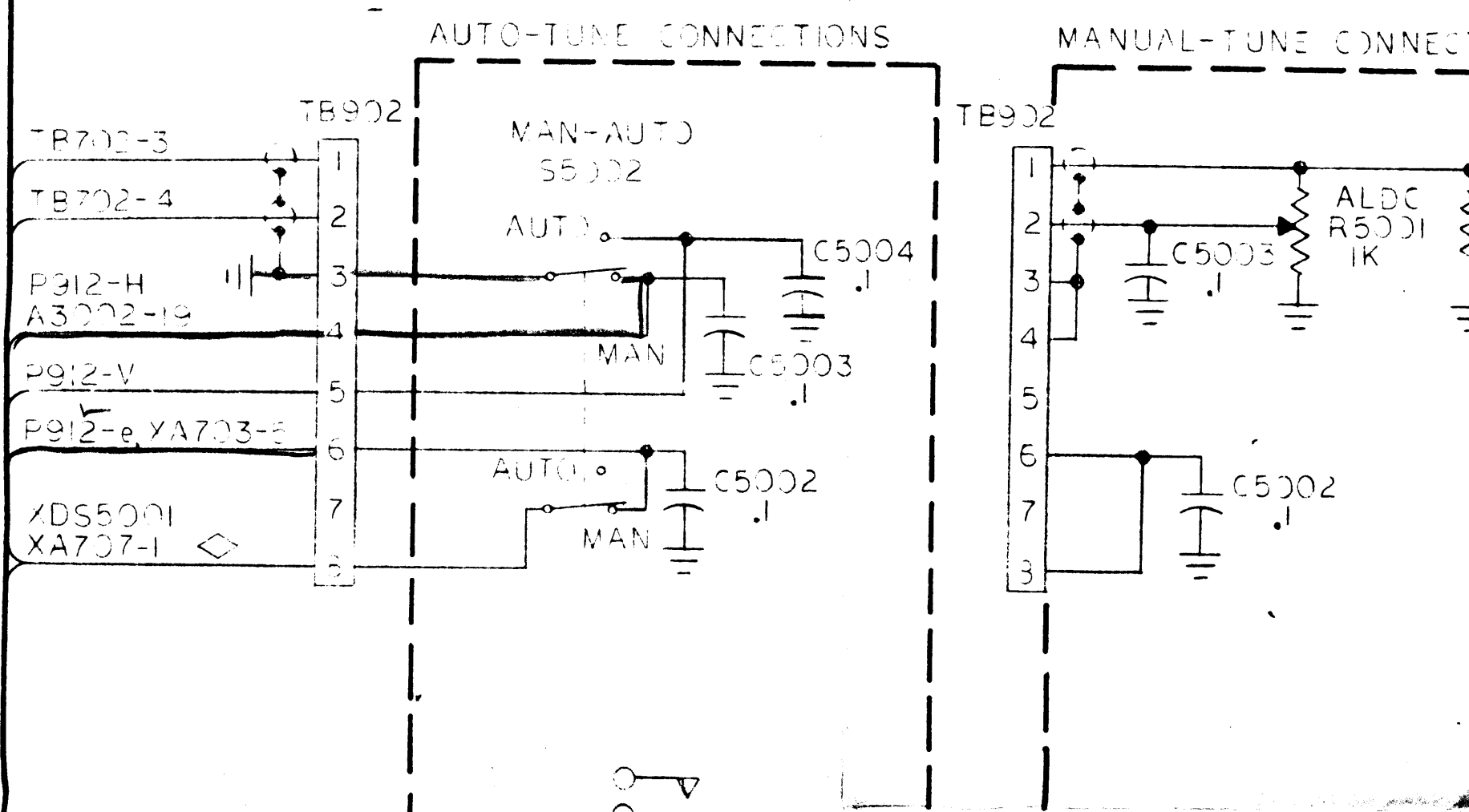
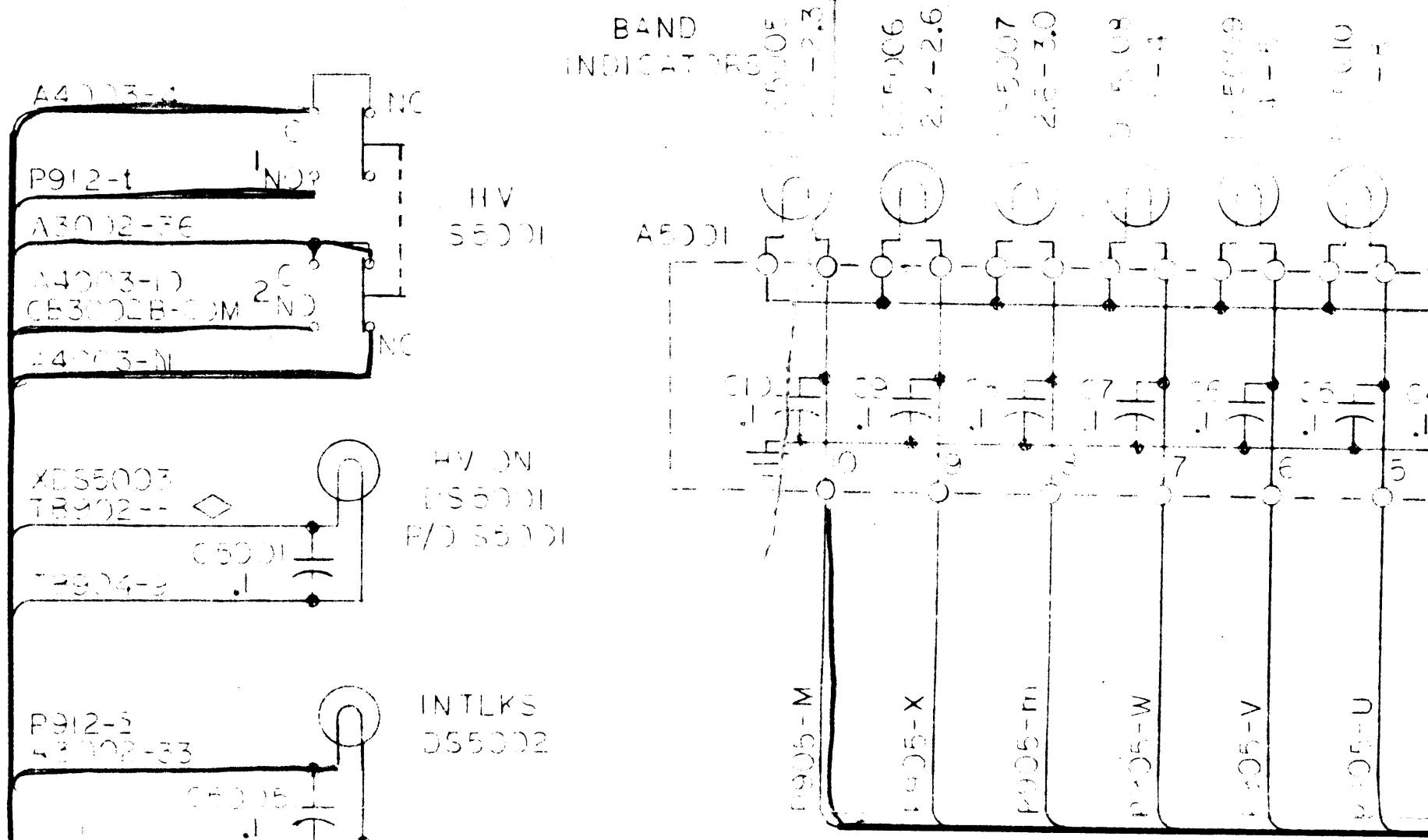


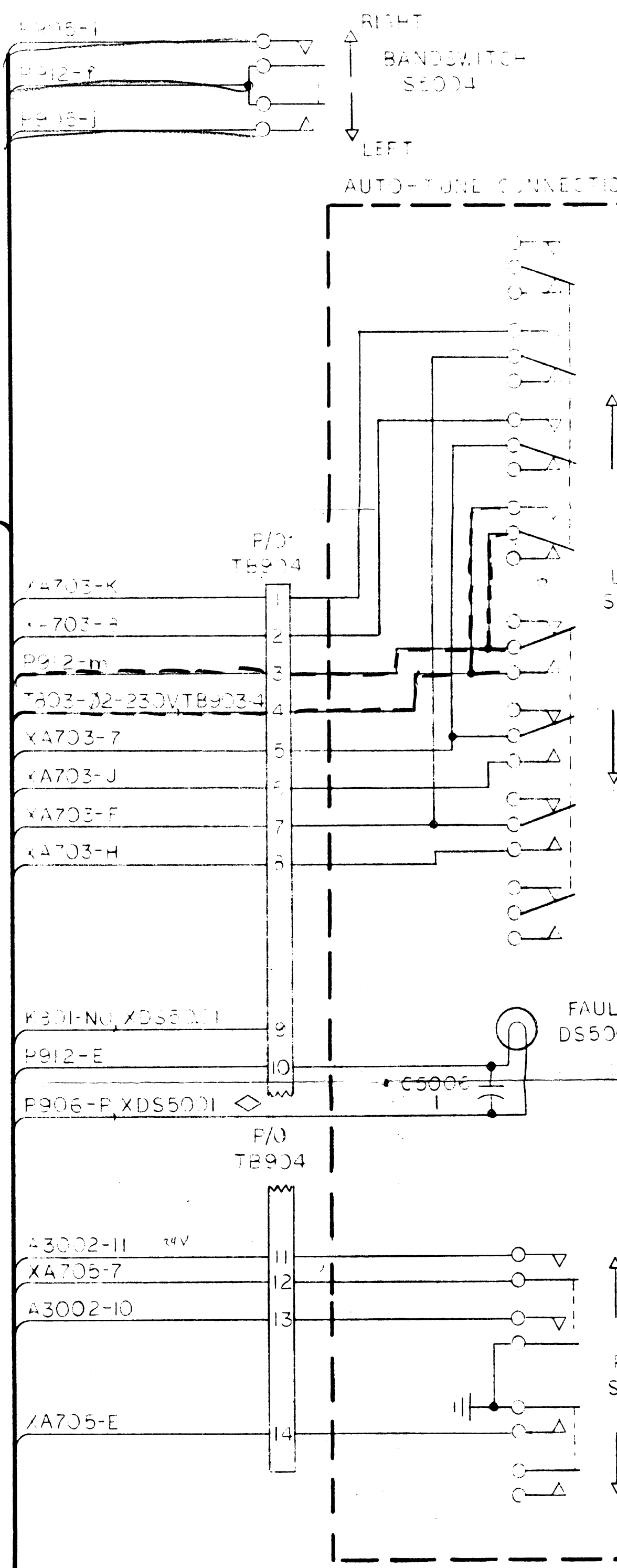
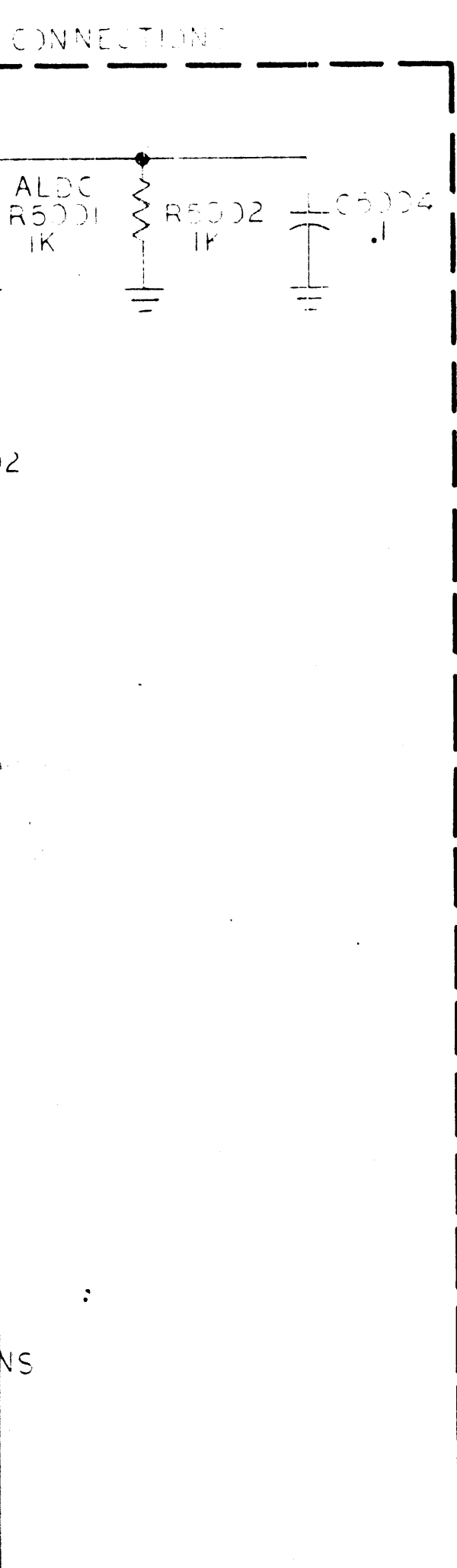
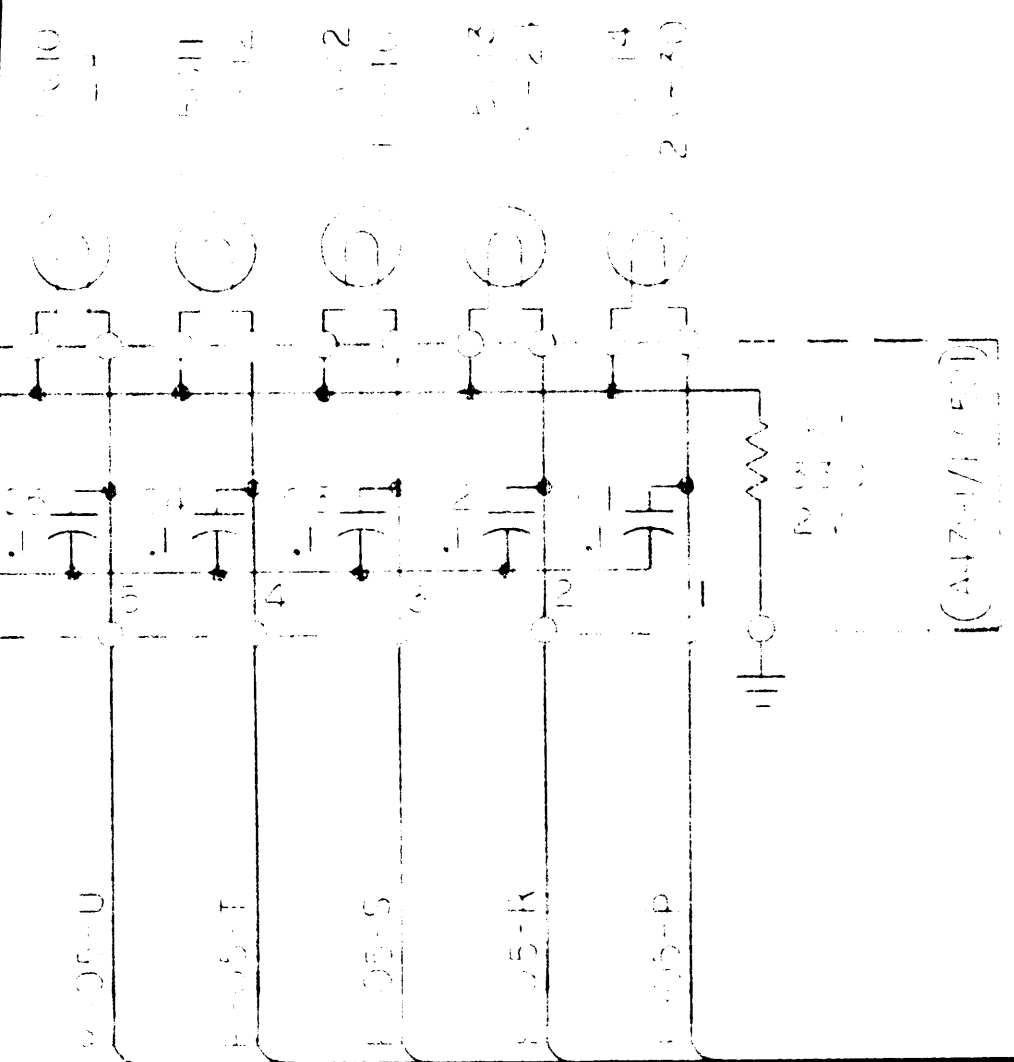
TO SH.3

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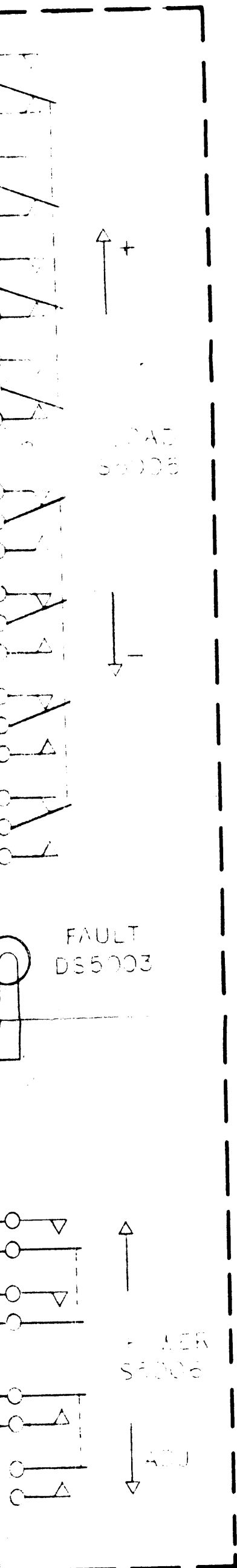
FINAL APPROVAL	DATE
MECH. DES.	DATE
ELECT. DES.	DATE
CHECKED	DATE
DRAWN	DATE

Figure 7-1. Schematic Diagram, HFL()-10K (Sheet 2 of 5)

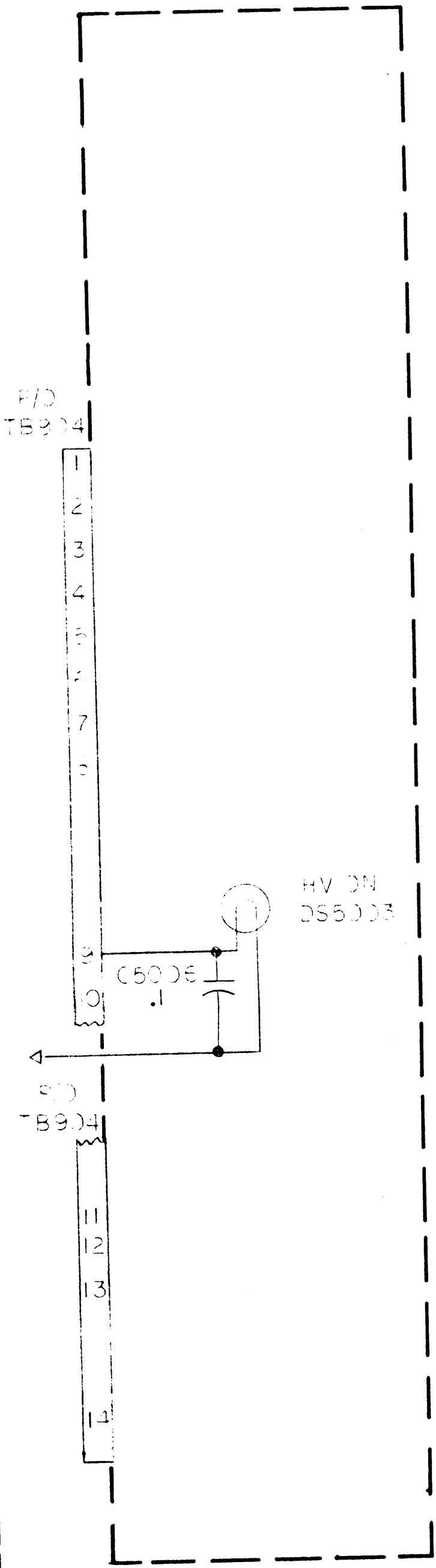




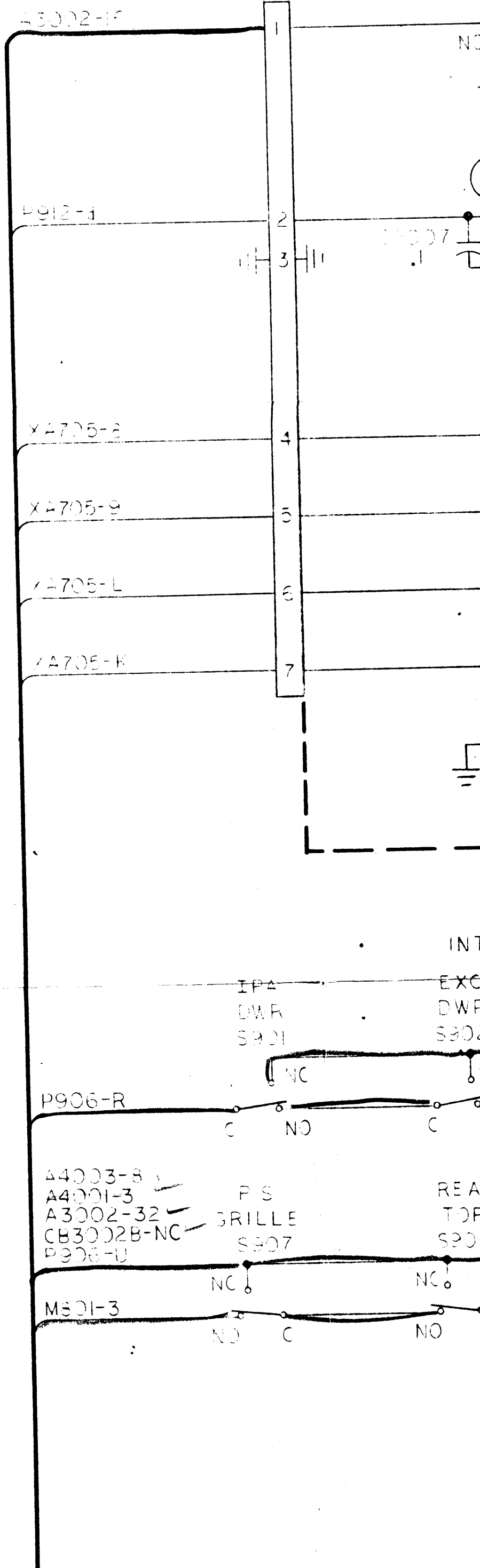
CONNECT SW



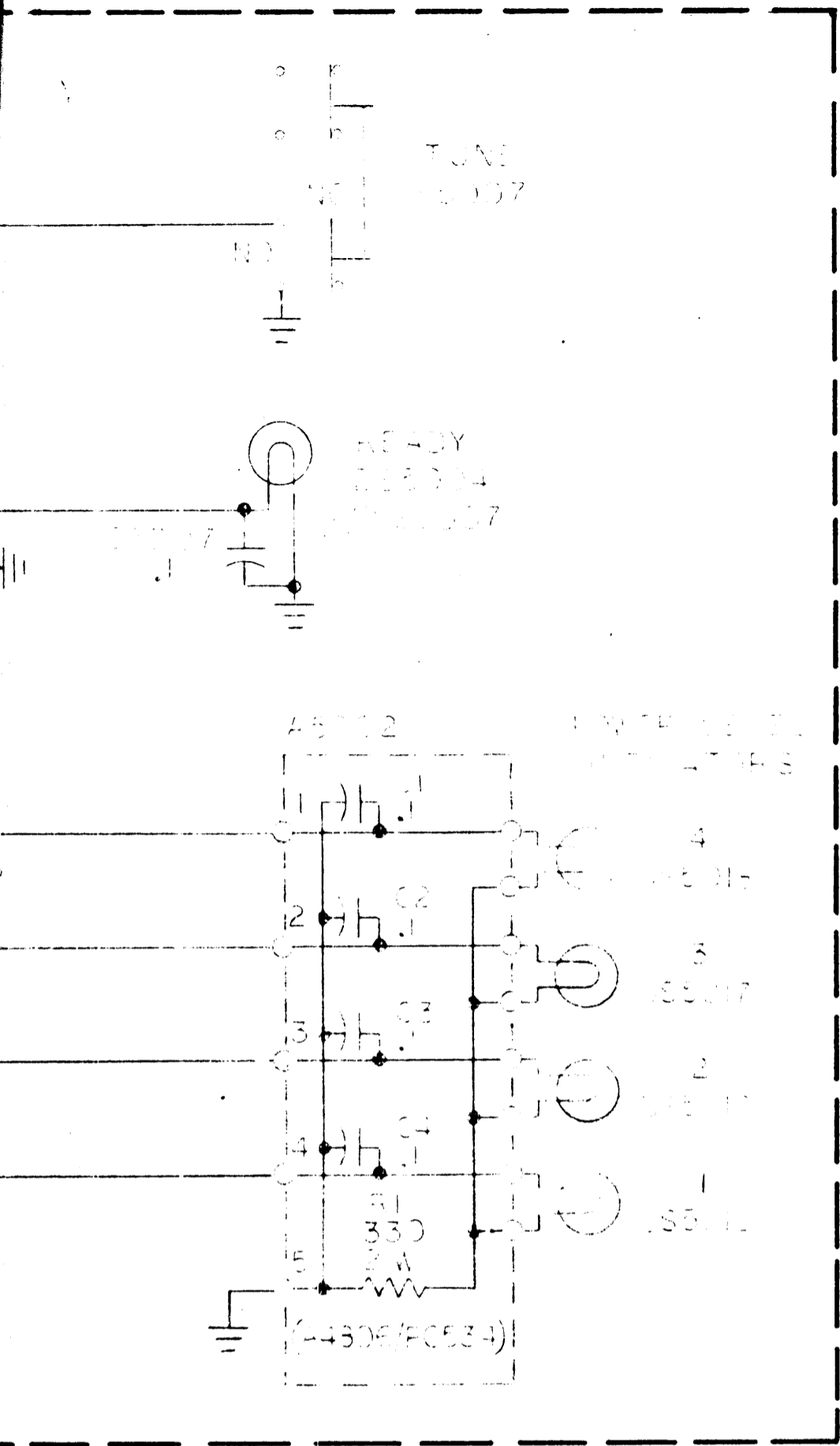
MANUAL-TUNE CONNECTIONS



TABLE



AUTO-TUNE CONNECTIONS



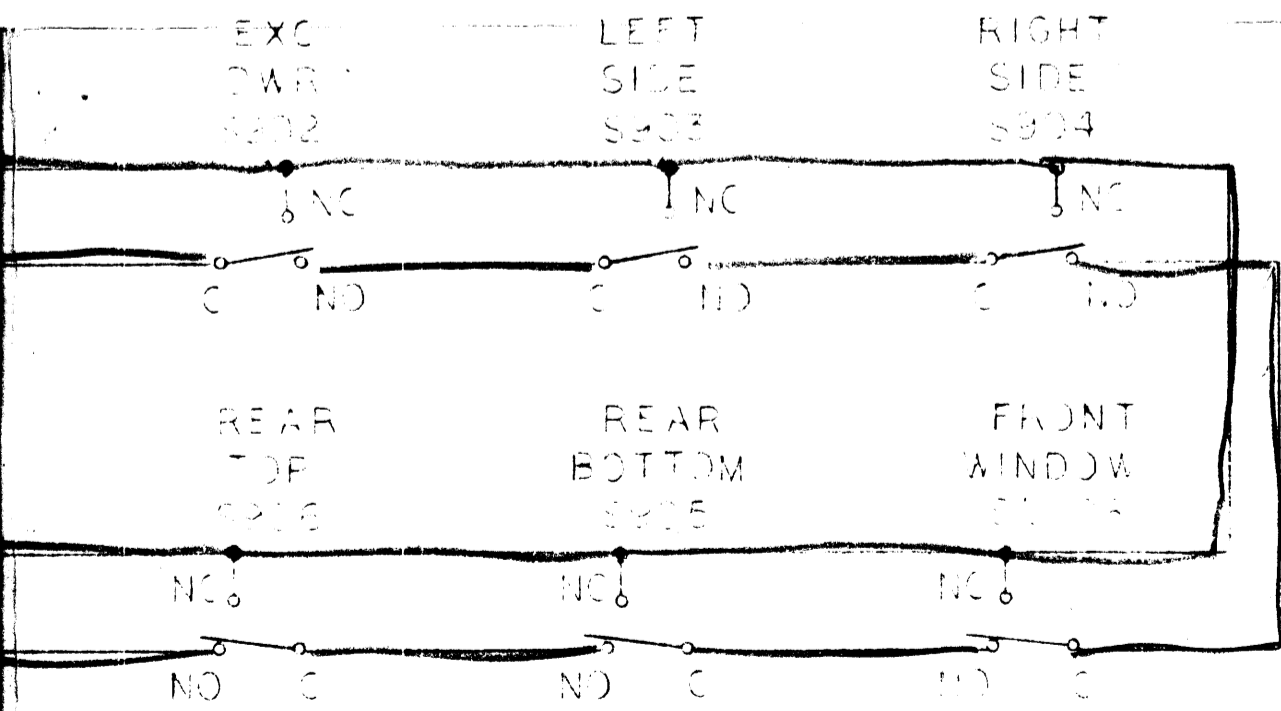
MANUAL-TUNE CONNECTIONS

TERMINALS

- 1
- 2
- 3
- 4
- 5
- 6
- 7

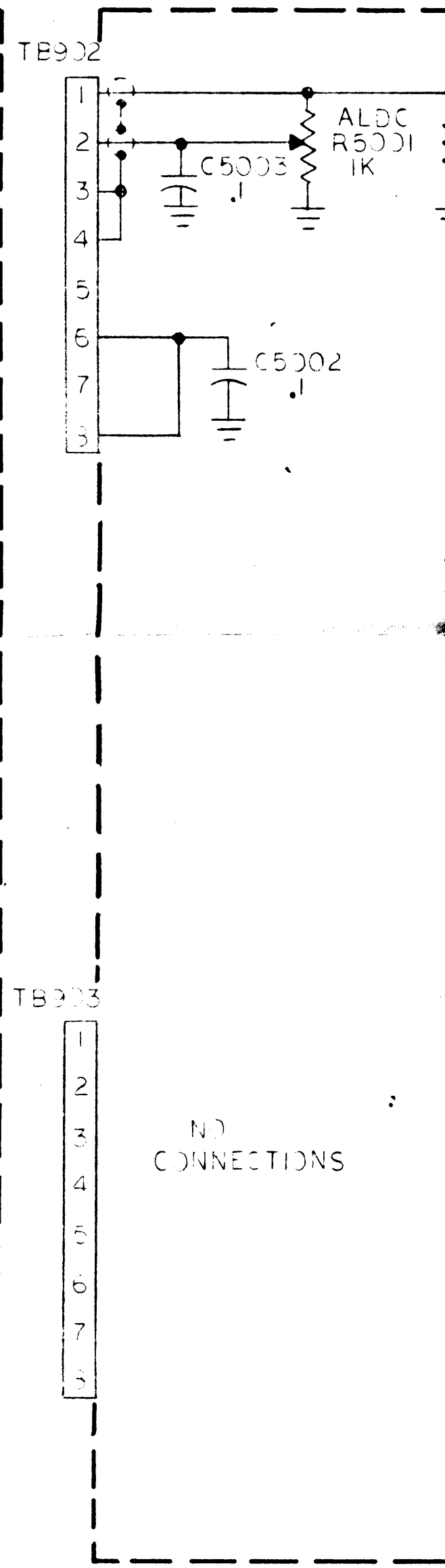
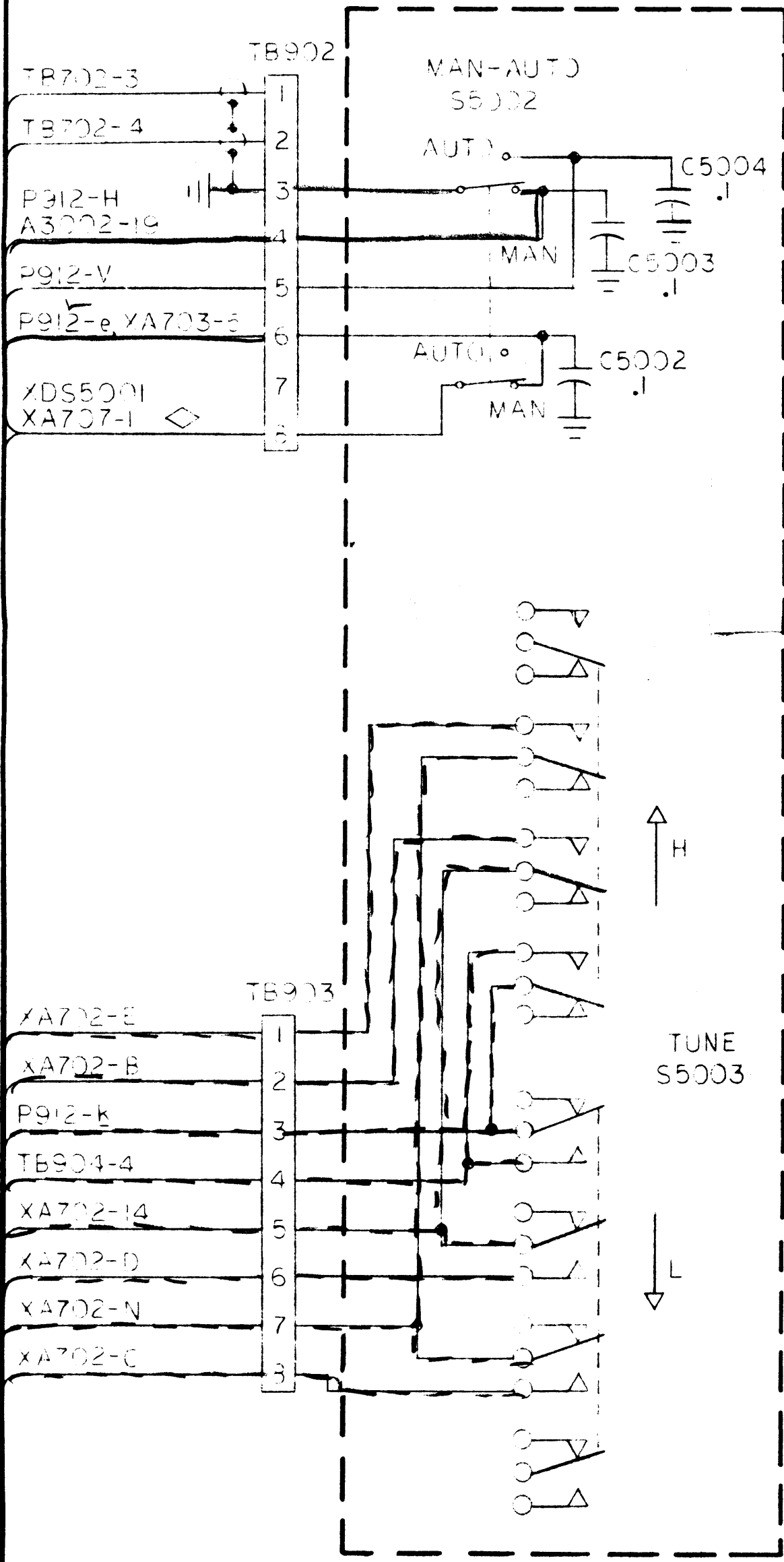
NO CONNECTIONS

INTERLOCK STRING



AUTO-TUNE CONNECTIONS

MANUAL-TUNE CONNECTIONS



TO SH. 2

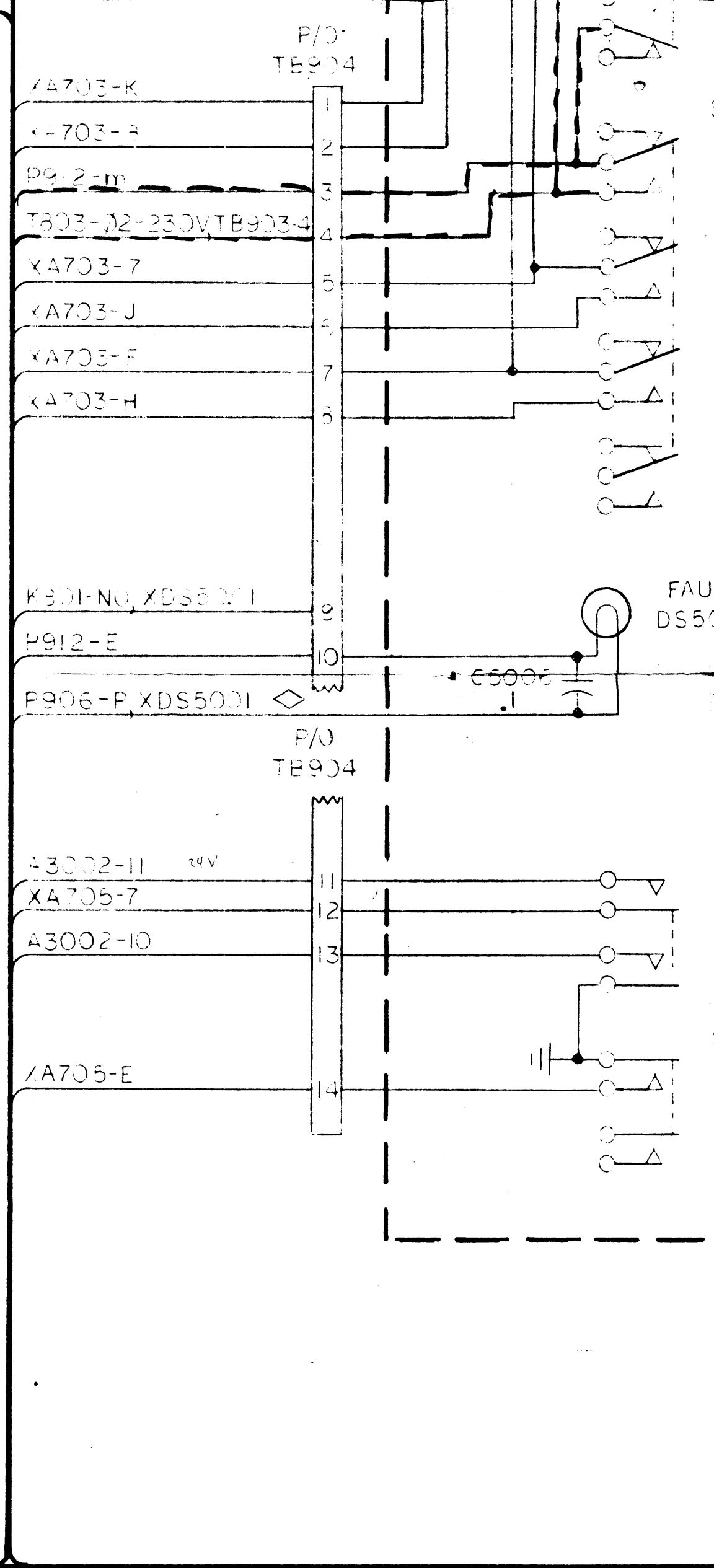
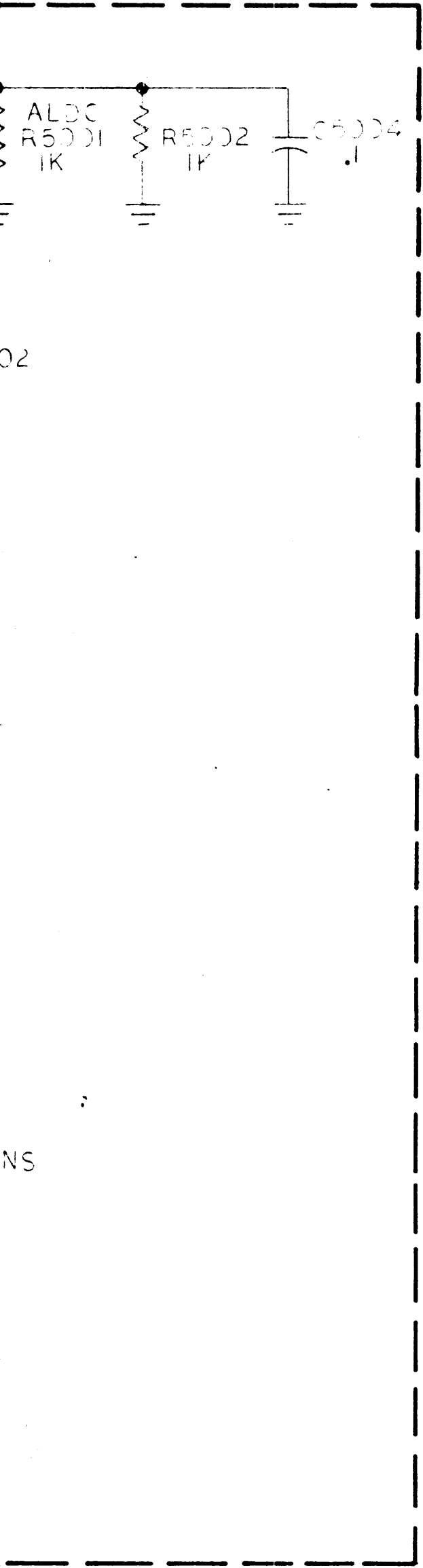
900		
LAST SYM	MISS SYM	MISS SYM
A301	S901	
B501	T804	E815
C807	YK802	
CR807		
E517		
K802		
L804		
M801		
P801		
R835		XK801

A301	
LAST SYM	MISS SYM
E8	
L1	
S1	
TB1	

300	
LAST SYM	MISS SYM
E902	
P914	P901,2
S907	
TB905	

3000	
LAST SYM	MISS SYM
A3002	
CB3002	
DS3001	
F3008	
J3004	
M3002	
S3002	
XF3005	

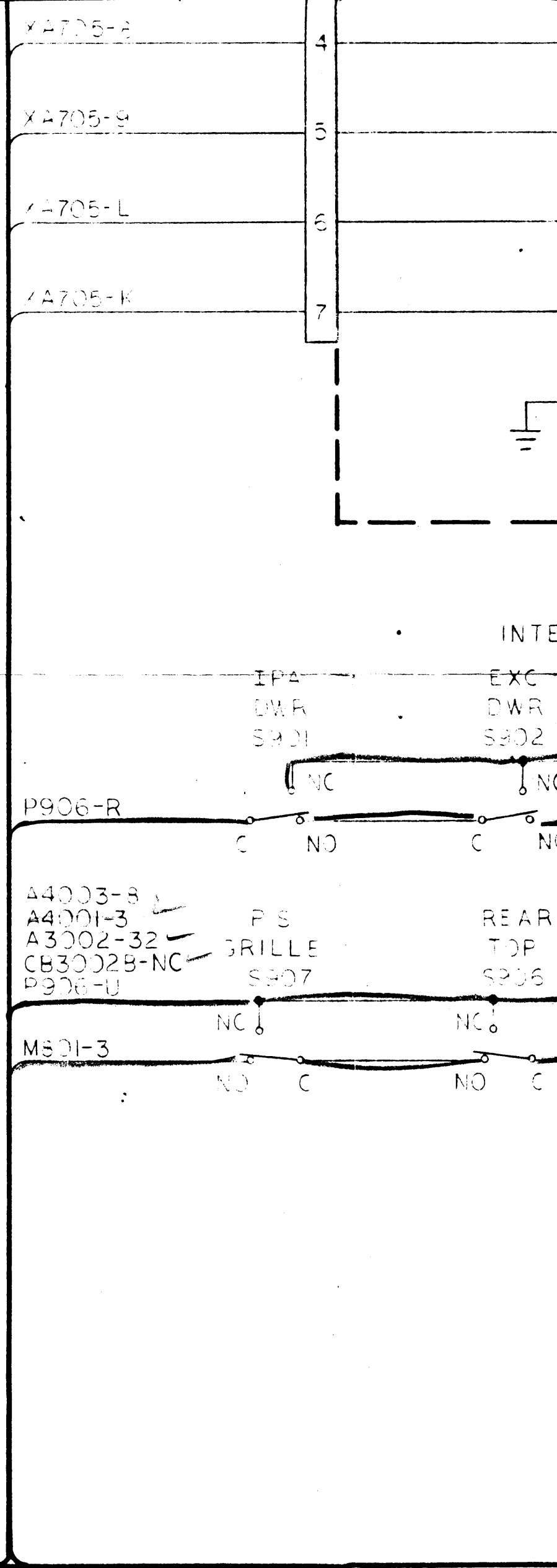
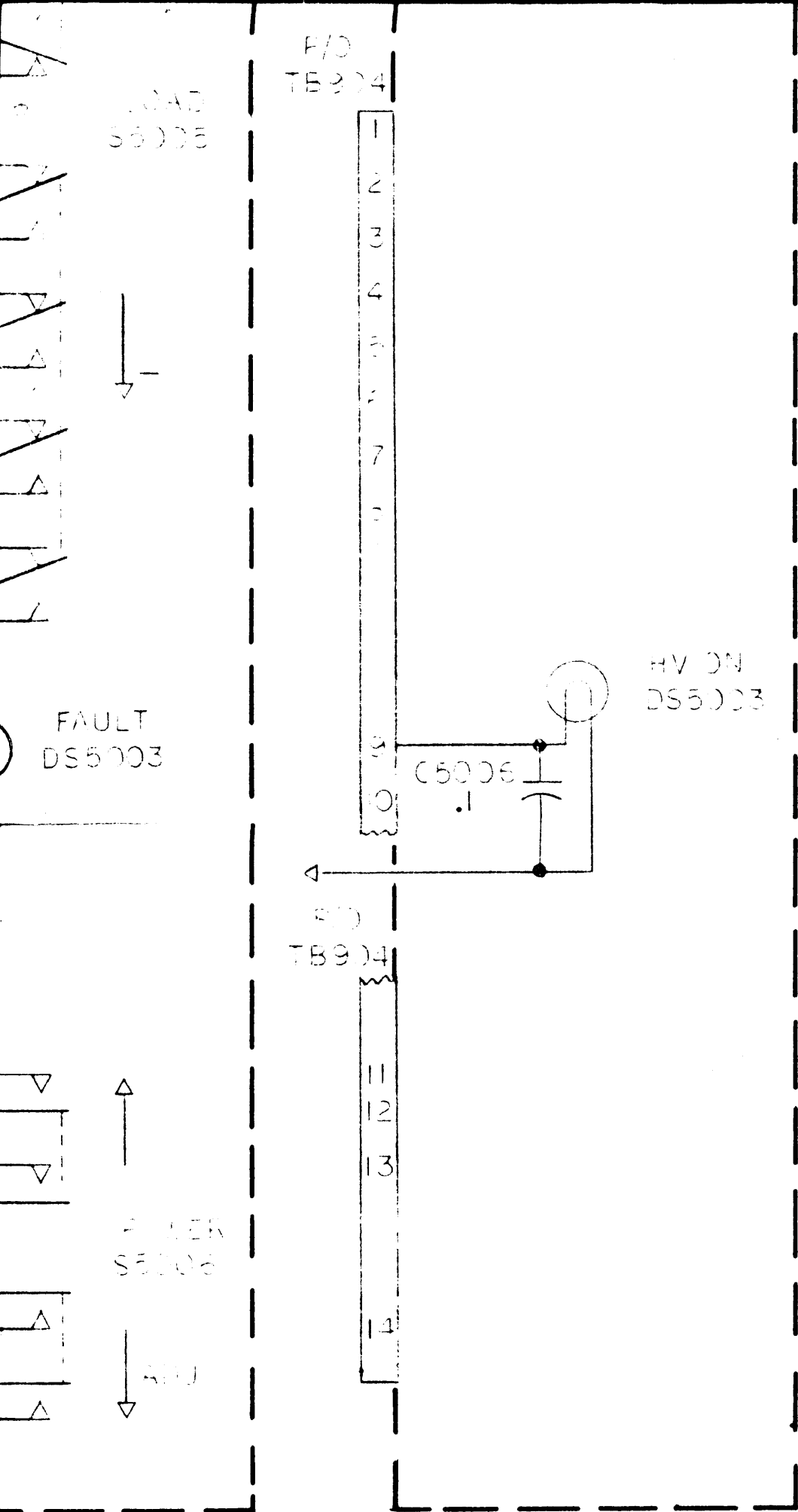
CONNECTIONS



3000	
SYM	MISS SYM
2	
02	
01	
8	
4	
0	
7	

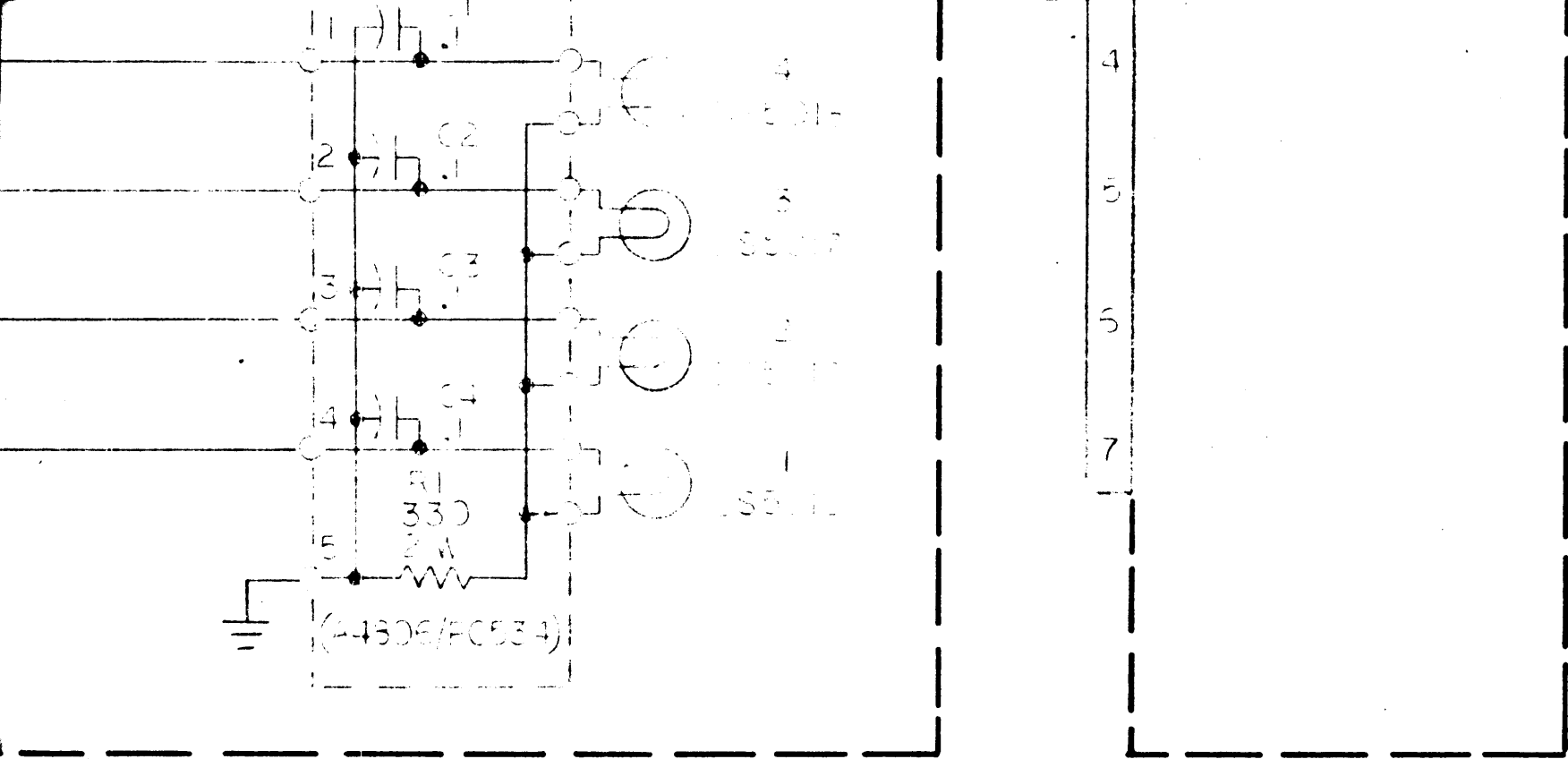
A3001	
LAST SYM	MISS SYM
C30	
E30	
L10	

A3002	
LAST SYM	MISS SYM
C31	C1-
C32	
E31	E34
L3	L2

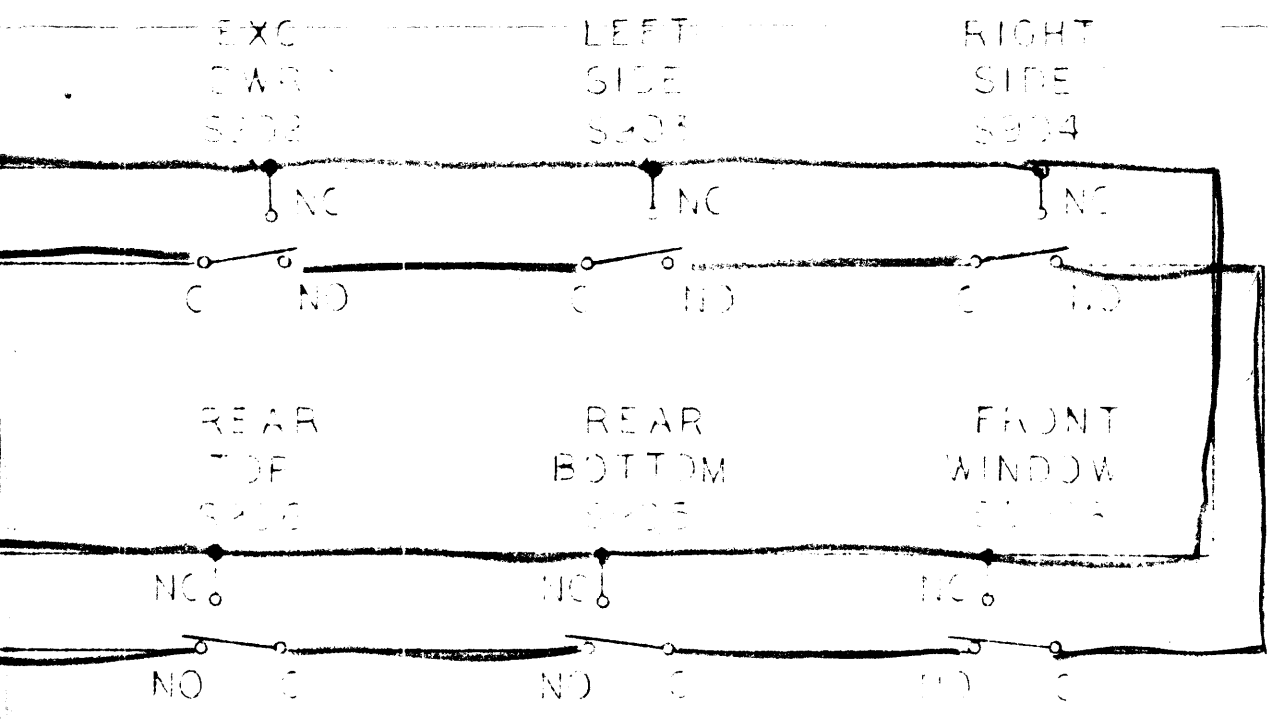


REVISIONS							
ZONE	LTR	DESCRIPTION	DATE	E.M.N.NO	DRAFT	CHKD	APPD.
	A		9-16-72		Ex		
	B	SEE SHTS 1, 2, 4	16/24/72 1 FEB 73	2085 21004	Ex JW	Ex JW	Ex JW

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INTERLOCK STRING

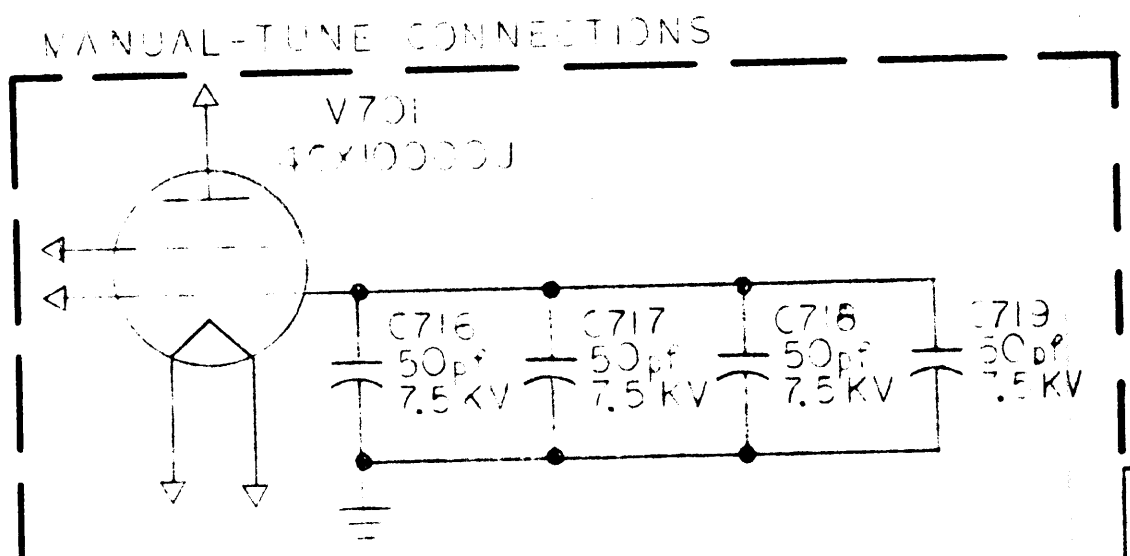
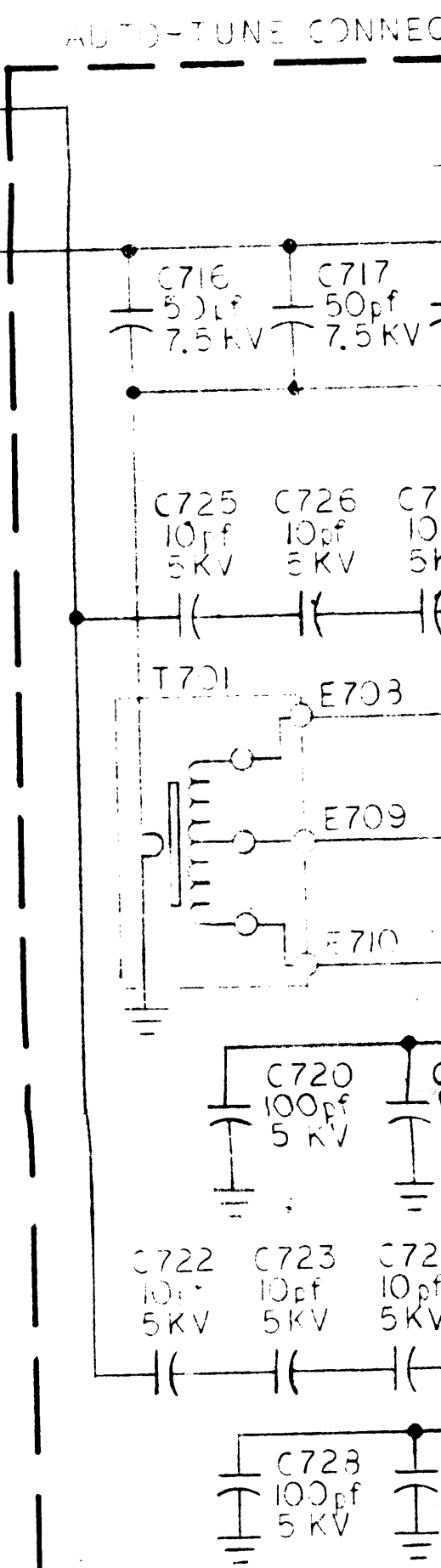
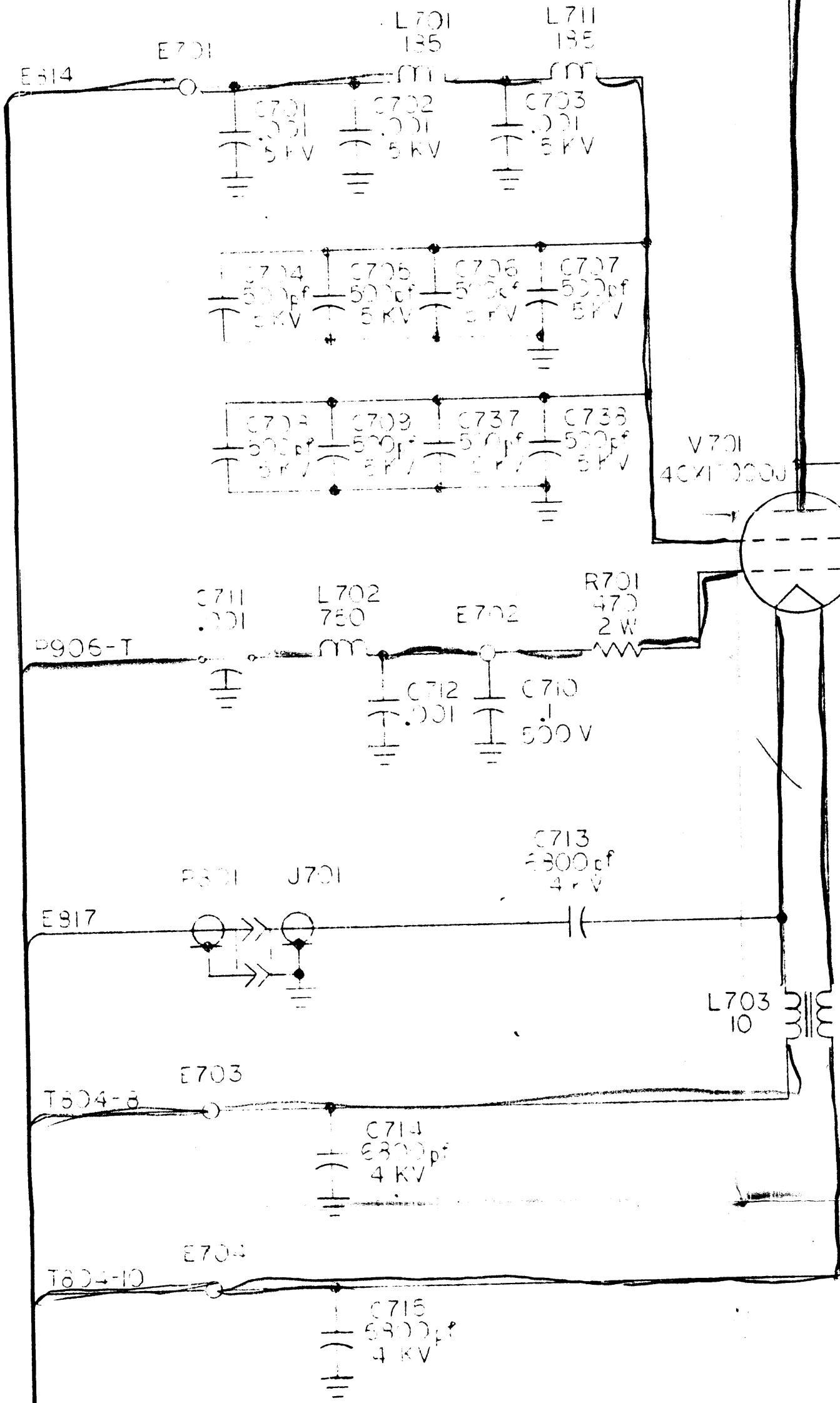


TO SH.4

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FINAL APPROVAL	DATE
<i>[Signature]</i>	10 SEP 72
MECH. DES.	DATE
ELECT. DES.	DATE
<i>[Signature]</i>	1 JUL 72
CHECKED	DATE
DRAWN	DATE
<i>[Signature]</i>	29 JUL 72

Figure 7-1. Schematic Diagram, HFL()-10K (Sheet 3 of 5)



YA701
 L
 E
 D

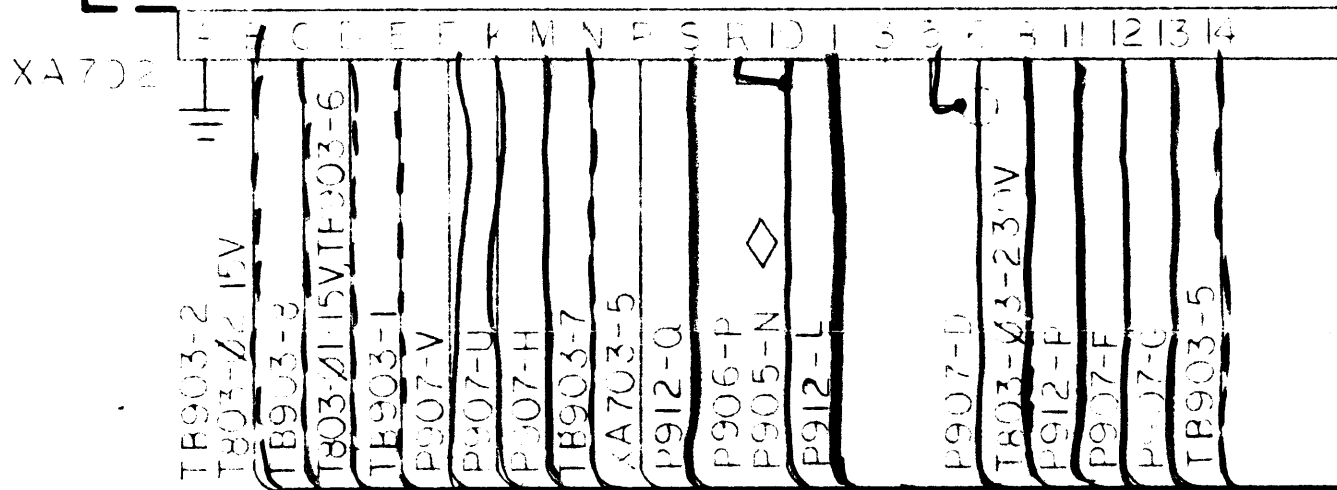
A702 PA TUNE CAP ASSY

FOR AUTO-TUNE: SEE CH1757

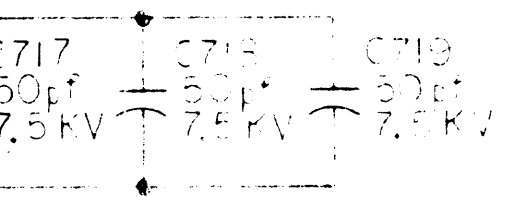
FOR MANUAL-TUNE: AS SHOWN. NO CONNECTIONS TO XA702.

TUNE
A702C1
20-750 pf
10 KV

(AX5171)



CONNECTIONS

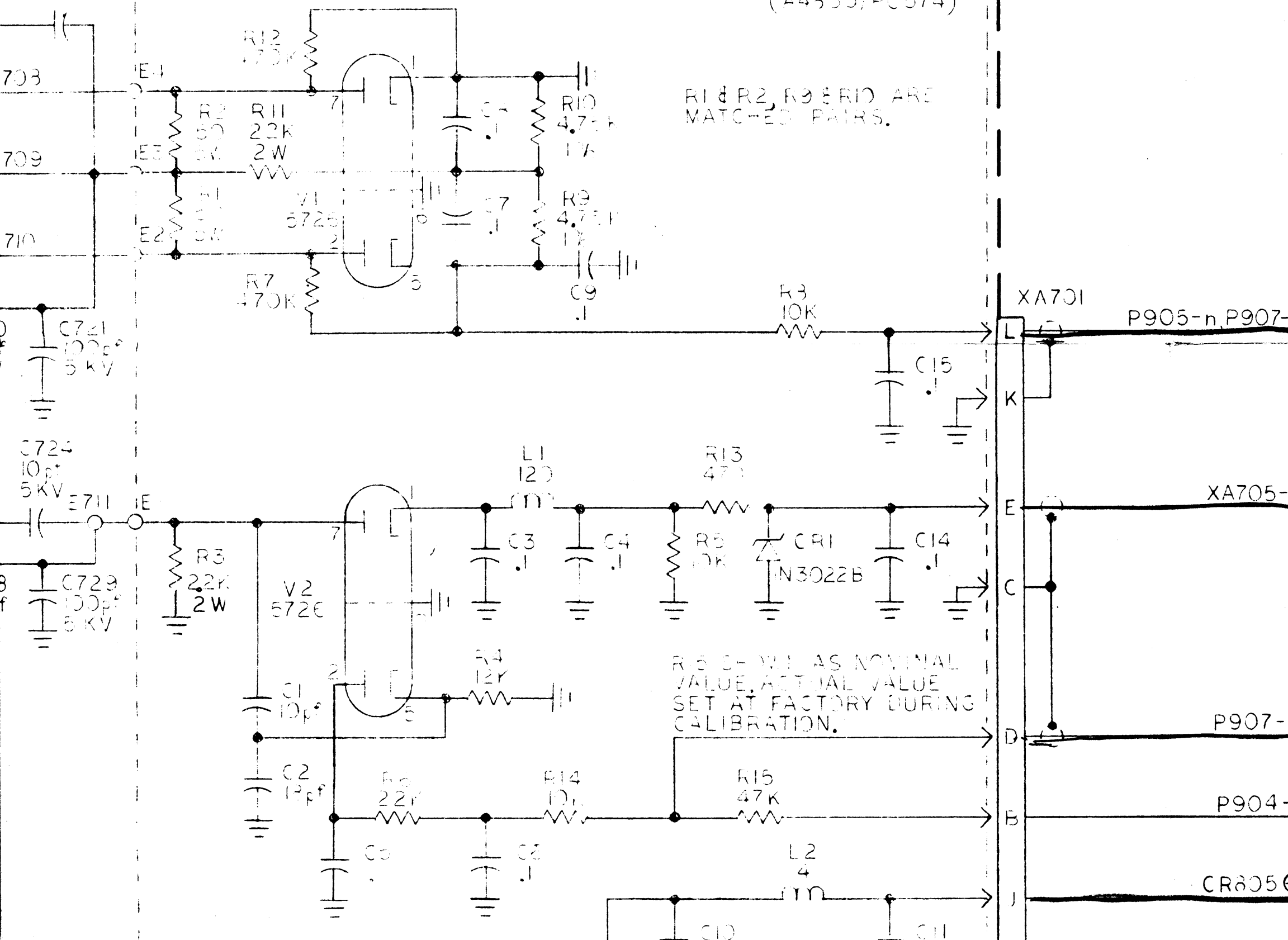


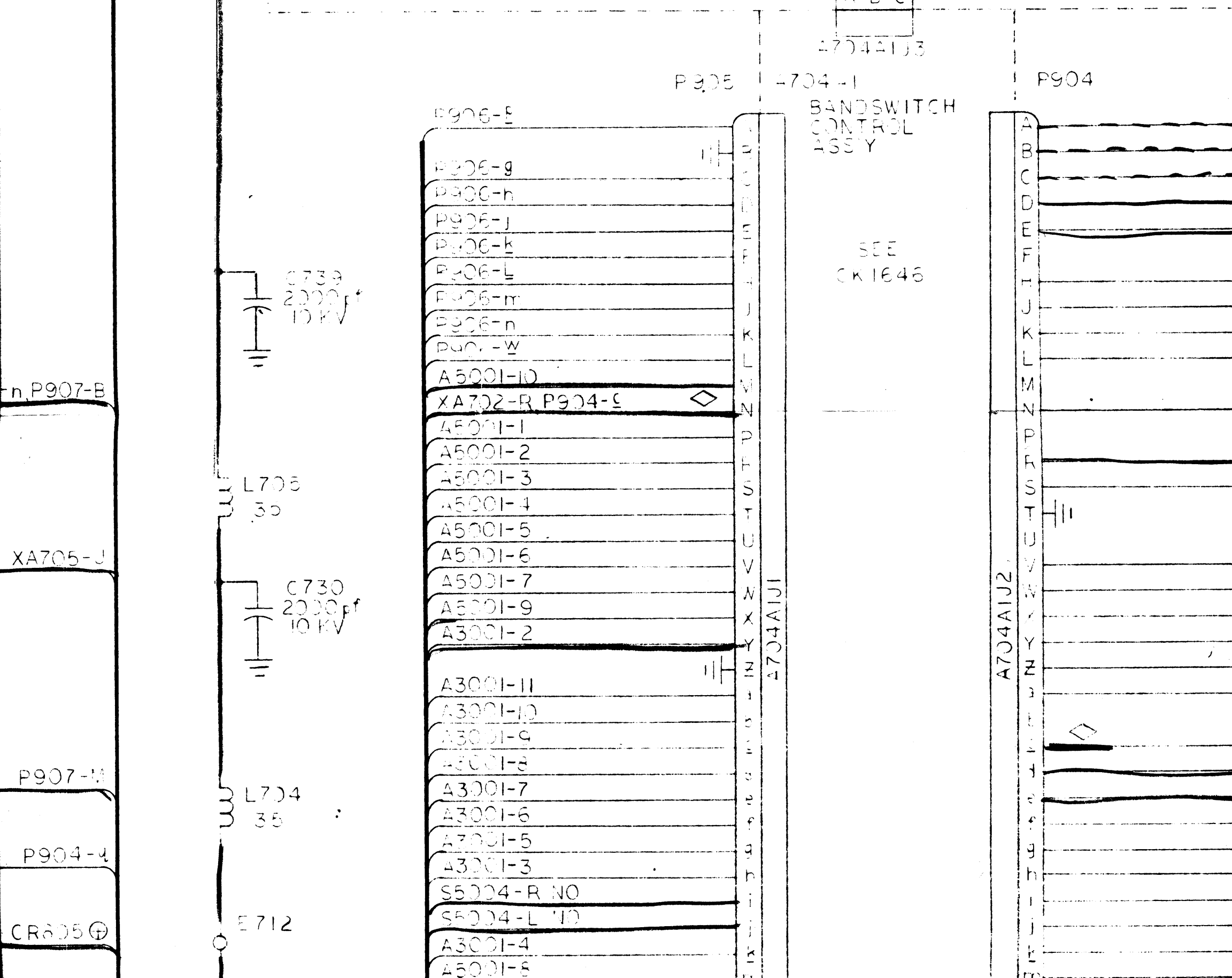
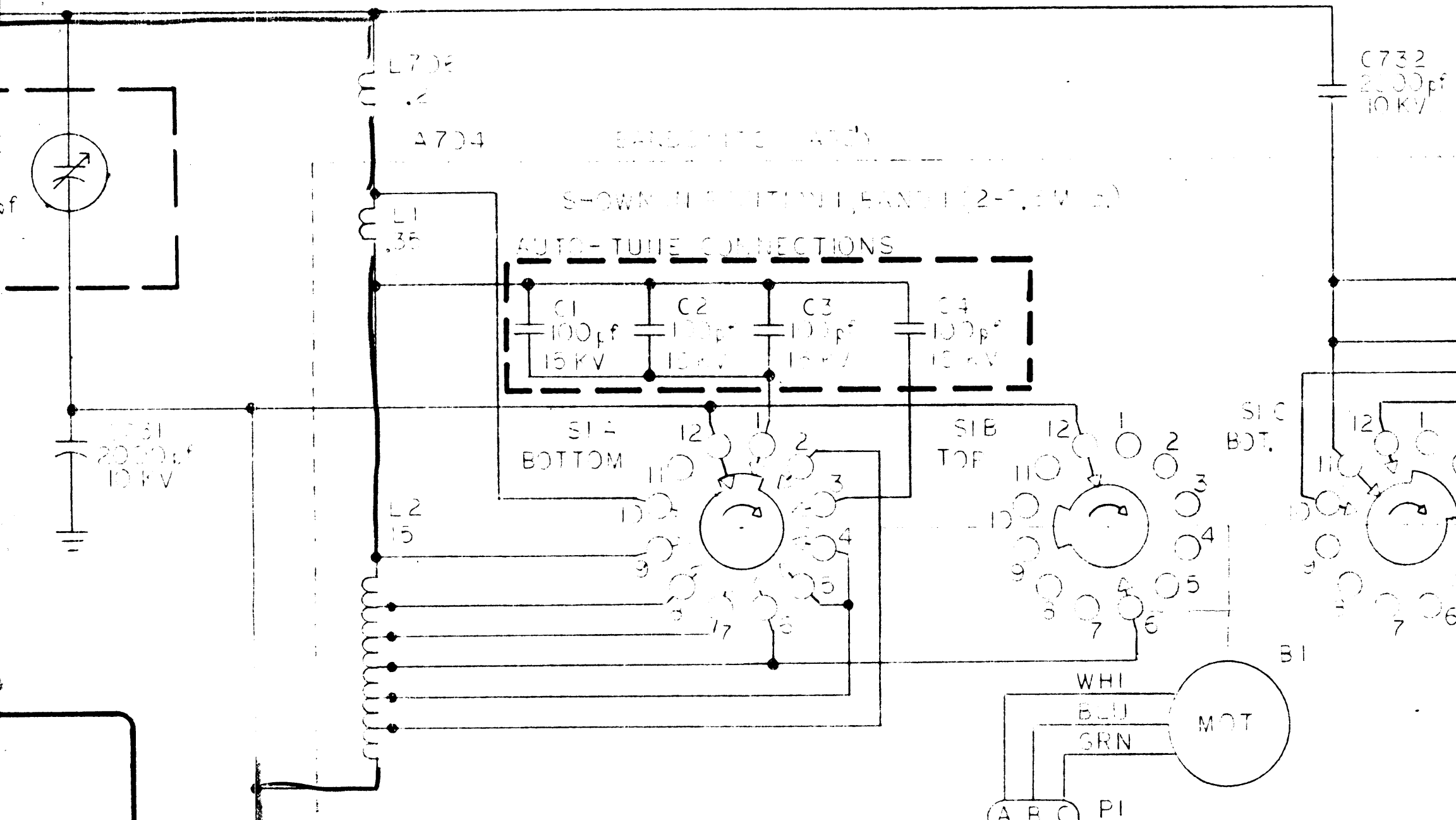
6 C727
10pf
5KV

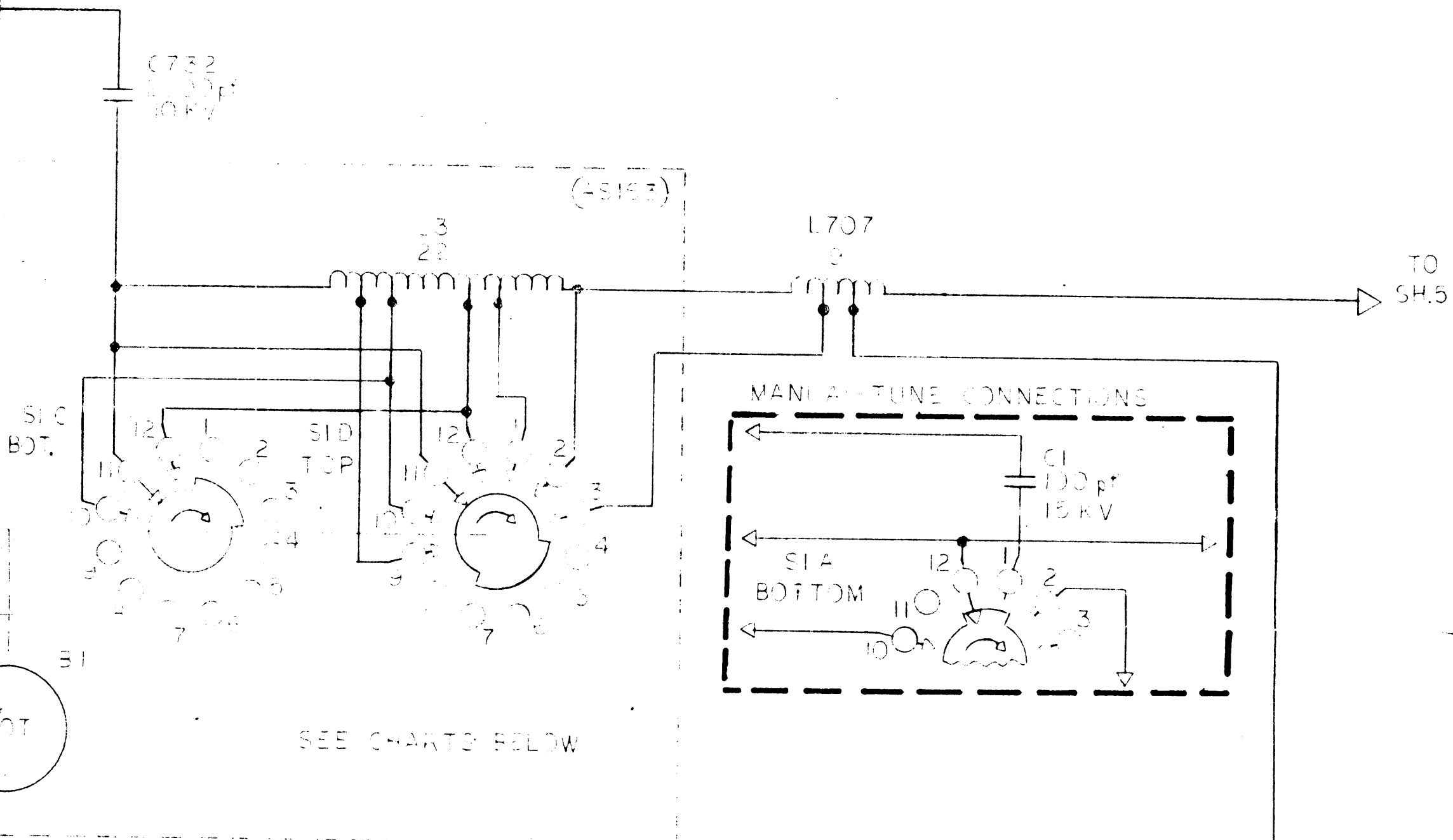
A701 PA SENSE (A4335/PC574)

R1 & R2, R9 & R10 ARE MATCHED PAIRS.

R5 IS 0% VLT AS NOMINAL VALUE. ACTUAL VALUE SET AT FACTORY DURING CALIBRATION.





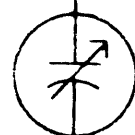


- P904
- XF3002
 - XF3001
 - XF3003
 - P903-G
 - P903-S
 - P903-M
 - P903-L
 - P903-K
 - P903-J
 - P903-H
 - P903-b
 - P903-A
 - P903-F
 - P903-E
 - P903-D
 - P903-C
 - P907-A
 - P903-B
 - P903-N
 - P906-a
 - P903-Q
 - P903-O
 - P903-P
 - P903-r
 - P903-W
 - P903-X
 - P903-Y
 - P903-Z

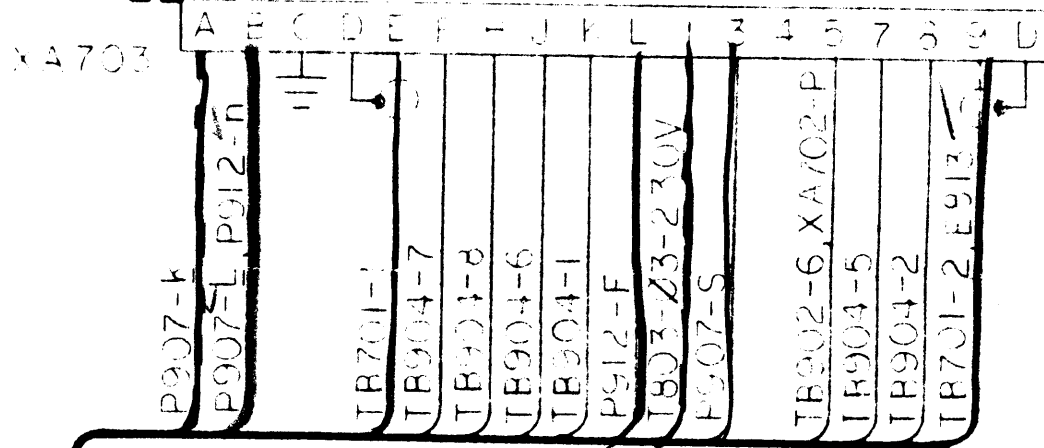
A703 MANUAL-TUNE CAP ASS'Y

FOR AUTO-TUNE: SEE CH 1638
 FOR MANUAL-TUNE: AS SHOWN. NO
 CONNECTIONS TO
 A703.

LOAD
 A703 CI
 5-750 pF
 5 kV

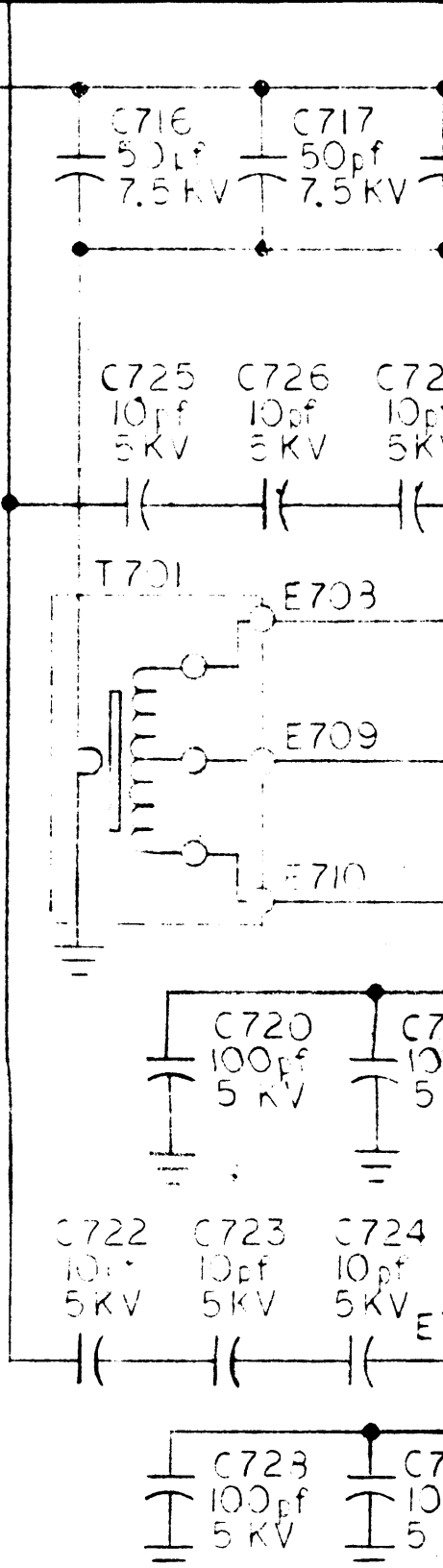
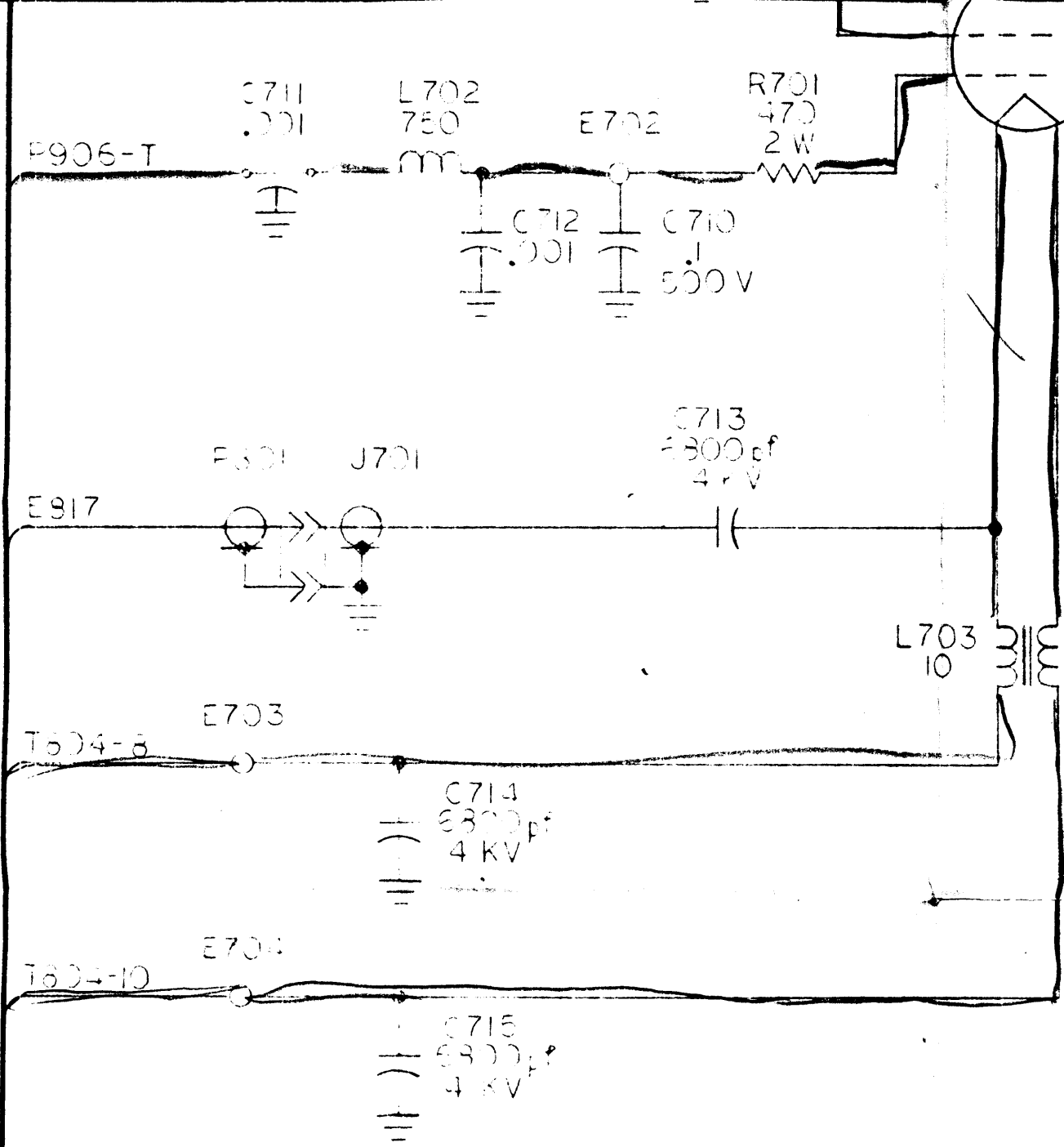


(AX5172)

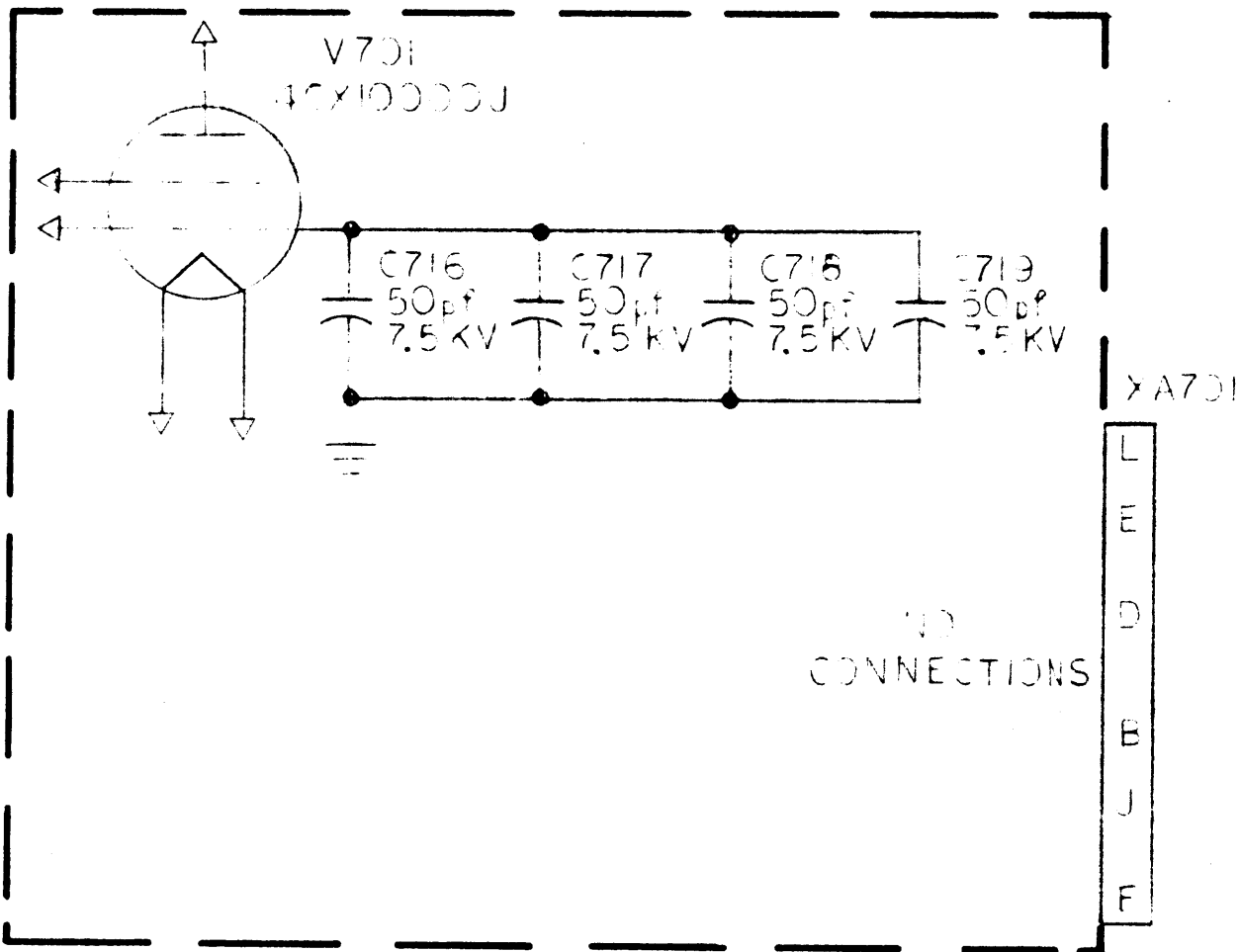


-704SI	
POS	MHz
1	2.0-2.3
2	2.3-2.6
3	2.6-3.0
4	3-4
5	4-5
6	5-6
7	6-12
8	12-16
9	16-24
10	24-30
11	
12	

A704SI TERMINAL SYMBOLS					
WAFER	POS	SYMBOL	WAFER	POS	SYMBOL
F	1	A704E1	B	12	A704E13
A	2	E2	C	10	E14
A	3	E3	C	11	E15
F	4	E4	C	12	E16
F	5	E5	C	1	E17
F	6	E6	D	2	E18
F	7	E7	D	3	E19
F	8	E8	D	9	E20
F	9	E9	D	10	E21
F	10	E10	D	11	E22
F	11	E11	D	12	A704E23
F	12	A704E12			



MANUAL-TUNE CONNECTIONS



NO CONNECTIONS

TO 24.3

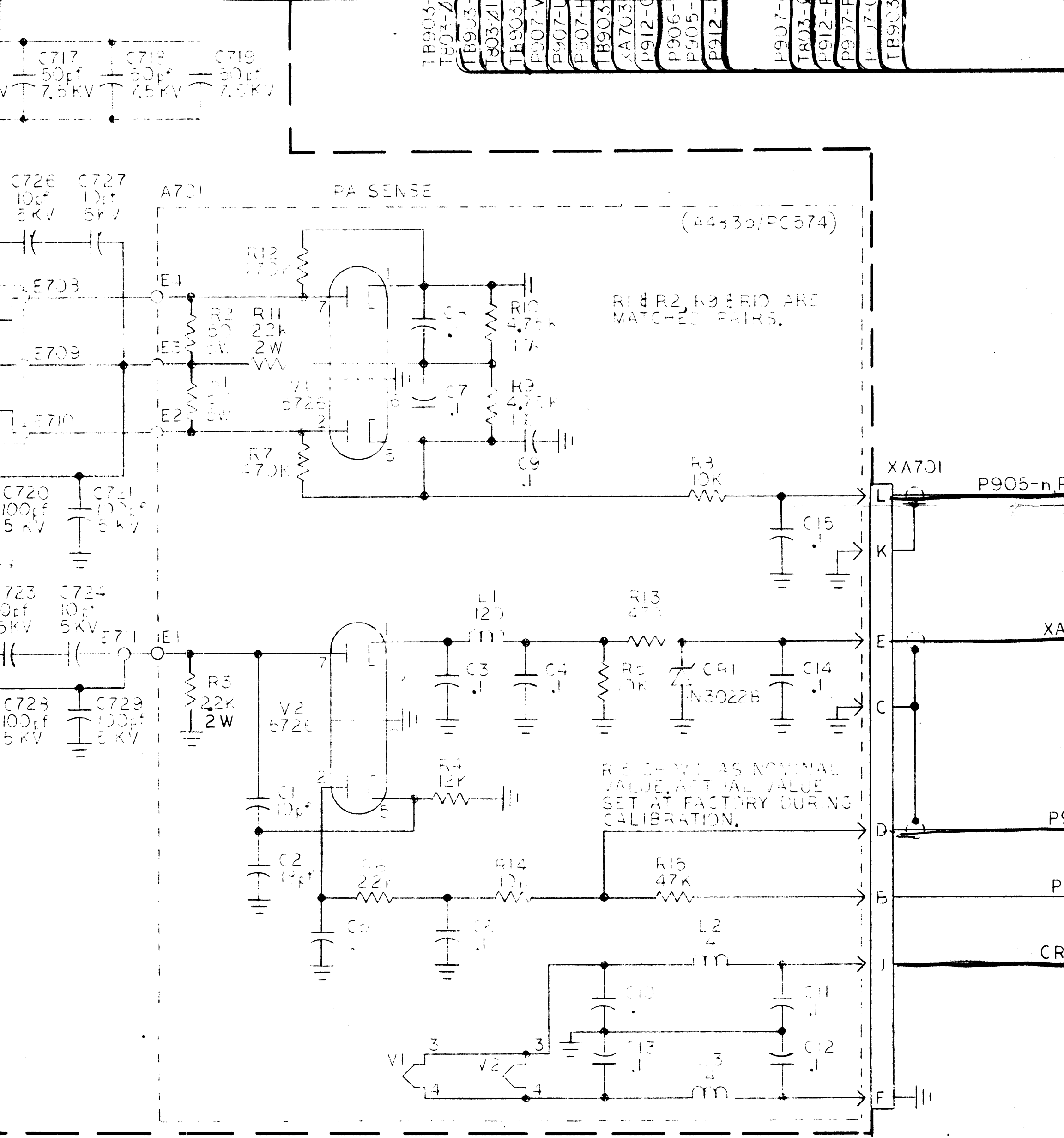
44000	
LAST SYM	MISS SYM
A4004	
C4005	
E4001	
M4005	
R4001	

44001-44002	
LAST SYM	MISS SYM
C3	
CR1	
DS3	
E3	
Q1	
R3	
XDS3	

44003	
LAST SYM	MISS SYM
CI2	
CR4	
DS3	
E13	
K1	
Q1	
R3	
XDS3	
XK1	

44004	
LAST SYM	MISS SYM
CI	
CR3	
E18	E1,3,5,7
Q5	9,11,13,15,17
R15	Q4
Z1	R13,14

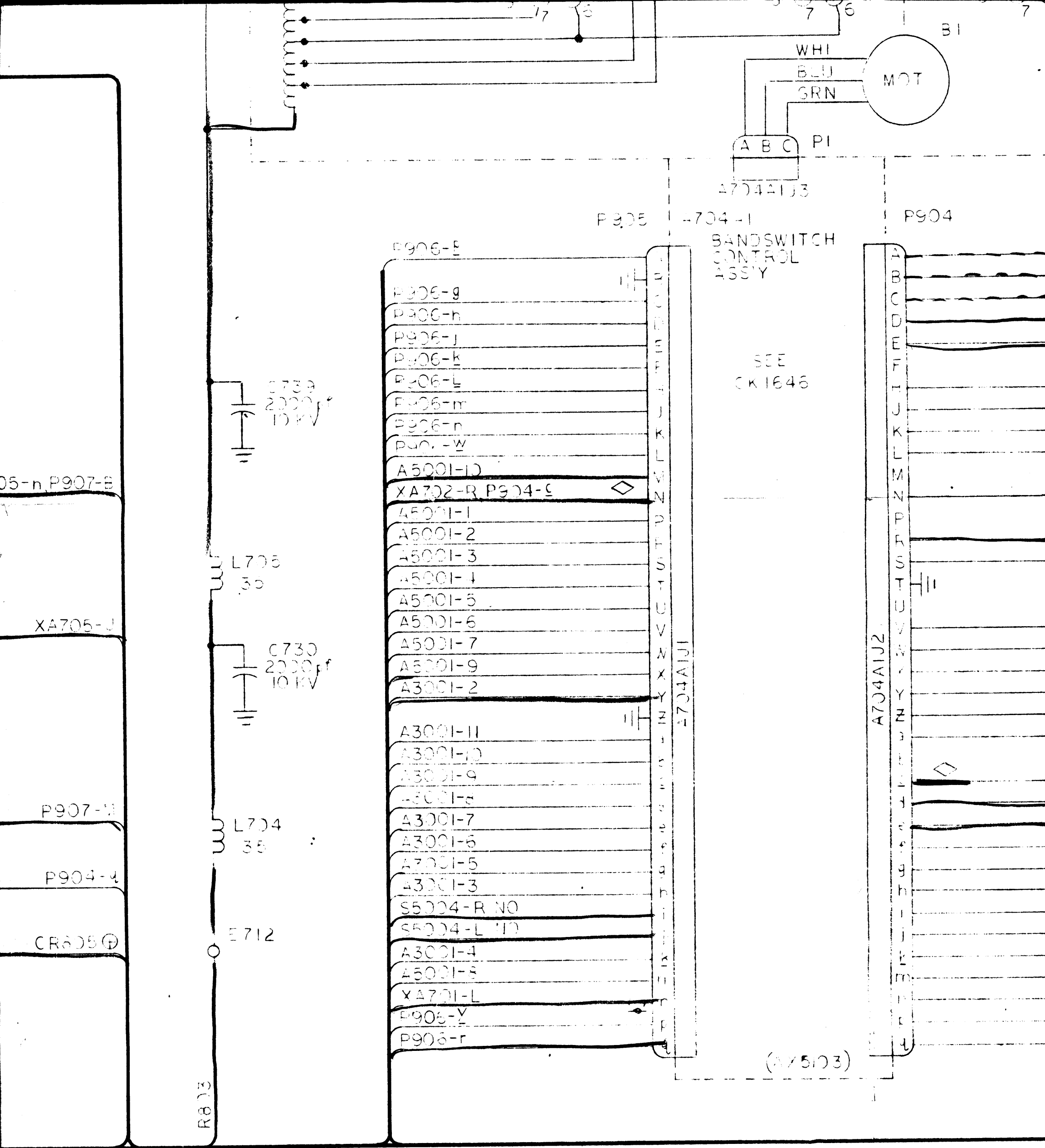
LAST SYM
A50
C50
DS5
R50
S50
XDS



SYM	5000	
	LAST SYM	MISS SYM
5, 7, 13, 17	A5002	
	C5007	
	DS5018	
	R5002	
4	S5003	
	X055094	

A701	
LAST SYM	MISS SYM
C10	
R10	
R11	

A3003	
LAST SYM	MISS SYM
C4	
R10	
R11	



REVISIONS							
ZONE	LTR	DESCRIPTION	DATE	E.M.N.O	DRAFT	CHKD	APPD
	Ø		9-16-72		29		
	A		11-11-72	20157	EE	Ø	Ø
	B	A701R3, A701R2 WERE VIEW. ADD GND ON XA701C & XA701-K.	FEB 13	21004	221	221	234

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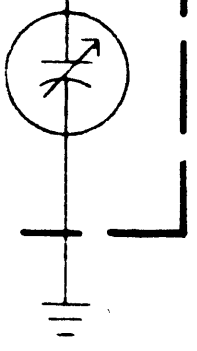
SEE CHARTS BELOW

- XF3002
- XF3001
- XF3003
- P903-G
- P906-E
- P903-M
- P903-L
- P903-K
- P903-I
- P903-H
- P903-b
- P903-A
- P903-F
- P903-E
- P903-D
- P903-C
- P907-A
- P903-B
- P905-N
- P906-a
- P903-Q
- P906-c
- P906-d
- P906-p
- P906-f
- P906-w
- P906-x
- P906-y
- P906-z
- XA702-H

A703 P-LOAD CAP ASSY

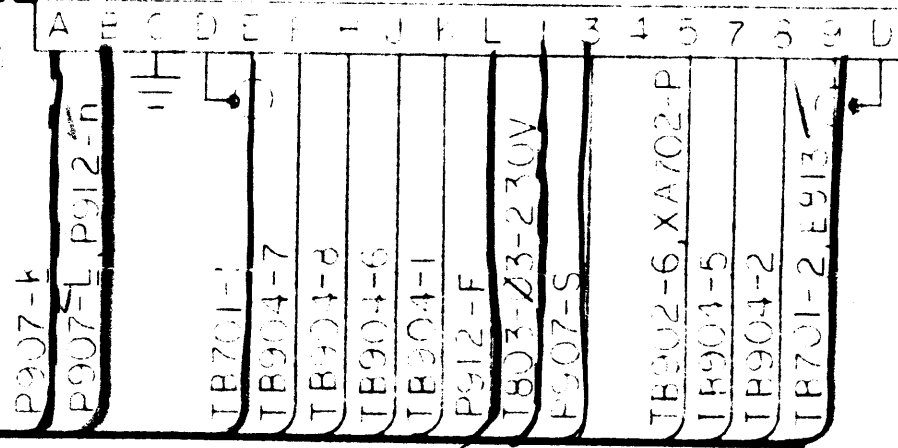
FOR AUTO-TUNE: SEE CH 1636
 FOR MANUAL-TUNE: AS SHOWN. NO
 CONNECTIONS TO
 /A703.

LOAD
 A703 CI
 5-750.4
 5 K V



(AX5172)

XA703



-704SI	
POS	M-Z
1	2.0-2.3
2	2.3-2.5
3	2.5-3.0
4	3-4
5	4-5
6	5-6
7	6-12
8	12-15
9	15-24
10	24-30
11	
12	

A704SI TERMINAL SYMBOLS					
WAFER	POS	SYMBOL	WAFER	POS	SYMBOL
A	1	A704E1	B	12	A704E13
A	2	E2	C	10	E14
A	3	E3	C	11	E15
A	4	E4	C	12	E16
A	5	E5	C	1	E17
A	6	E6	D	2	E18
A	7	E7	D	3	E19
A	8	E8	D	9	E20
A	9	E9	D	10	E21
A	10	E10	D	11	E22
A	12	E11	D	12	A704E23
A	11	-704E12			

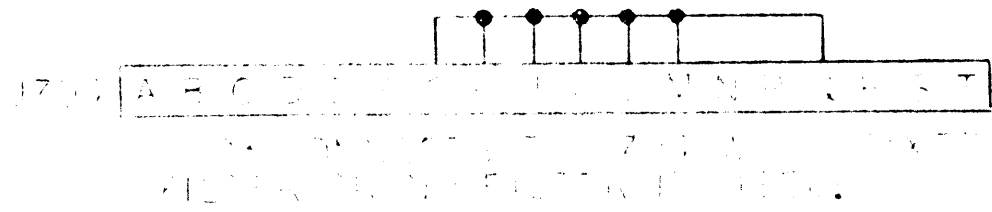
TO SH.5

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FINAL APPROVAL	DATE
MECH. DES.	DATE
ELECT. DES.	DATE
CHECKED	DATE
DRAWN	DATE

Figure 7-1. Schematic Diagram, HFL()-10K
 (Sheet 4 of 5)

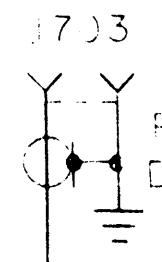
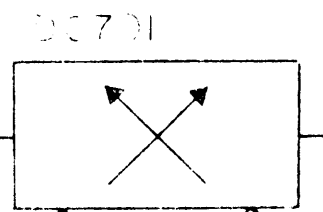
R F OUTPUT



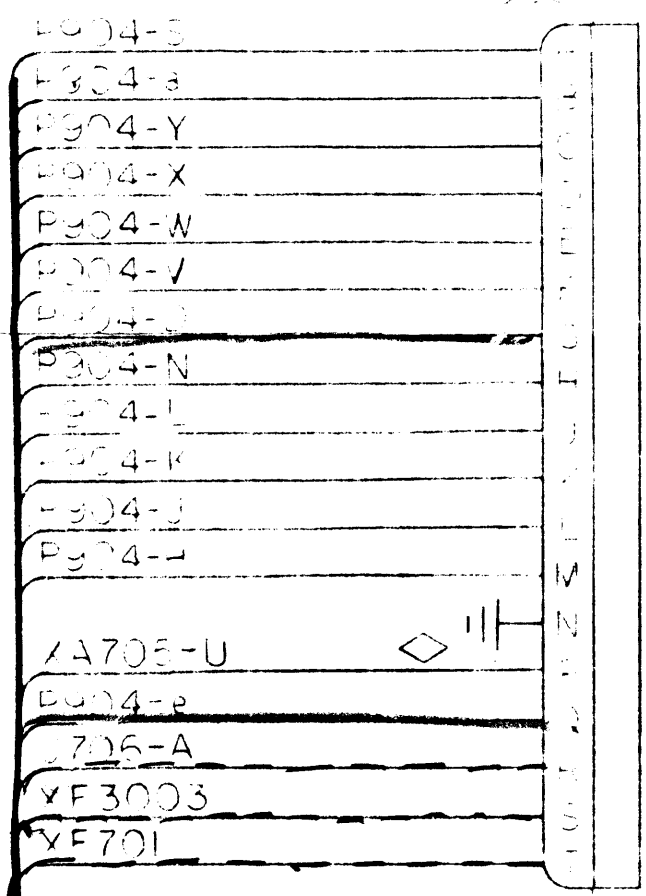
A705 HARMONIC FILTER

TD SH. 4

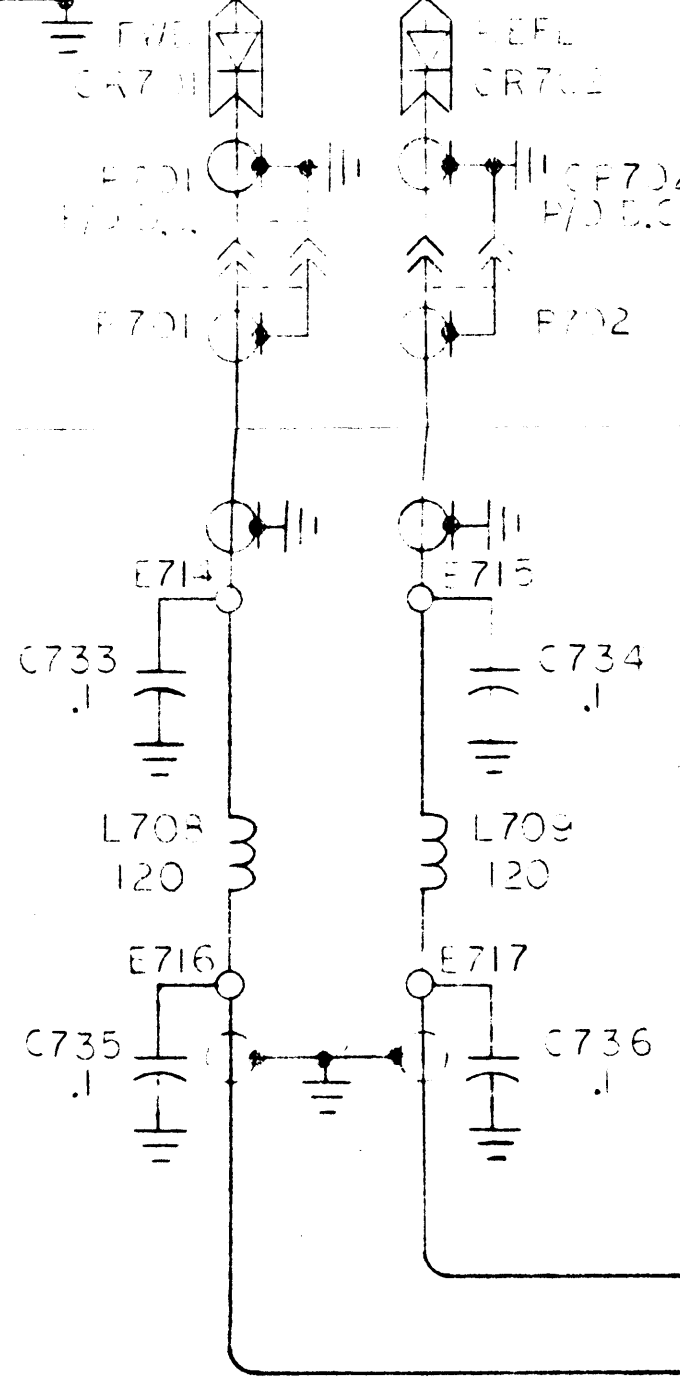
J702 P/D C.C.



P903 A704 J1

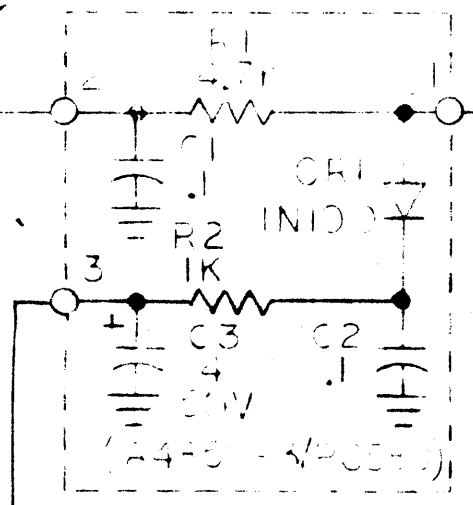


SEE APPROPRIATE SCHEMATIC DRAWING FOR FILTER USE.

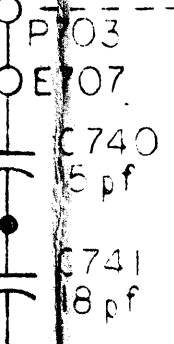


A703 ALDC

XA705-M



A705 E2

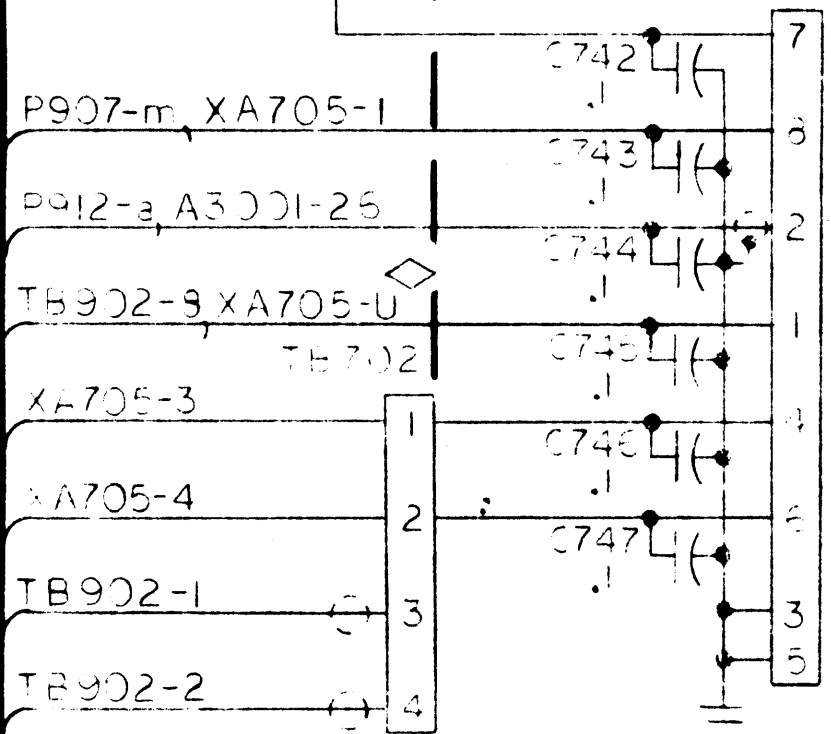


AUTO-TUNE CONNECTIONS

MANUAL-TUNE CONNECTIONS

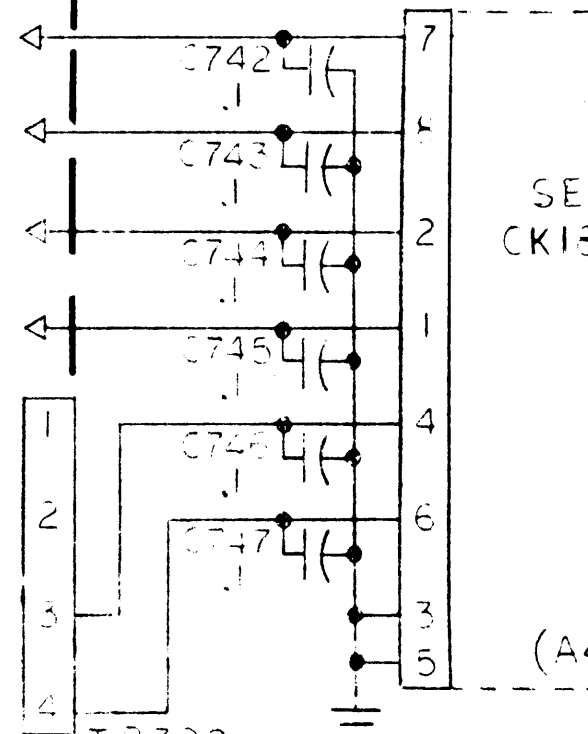
XA707 A707 ALDC

XA707 A707



SEE CK185

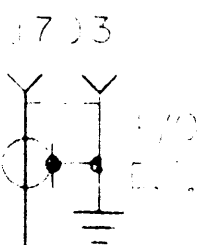
(A456)



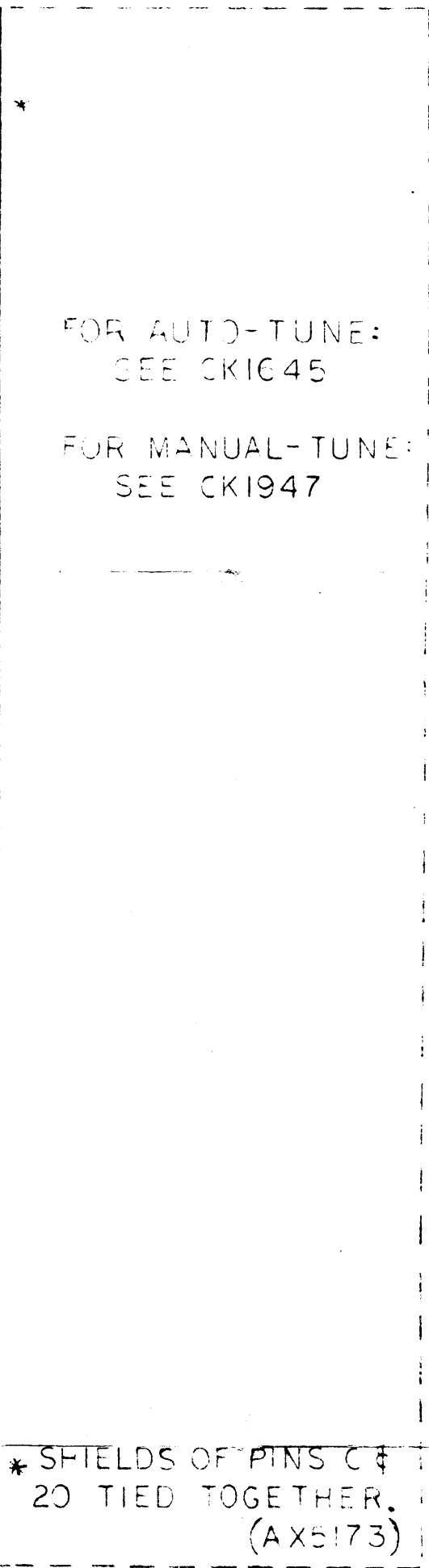
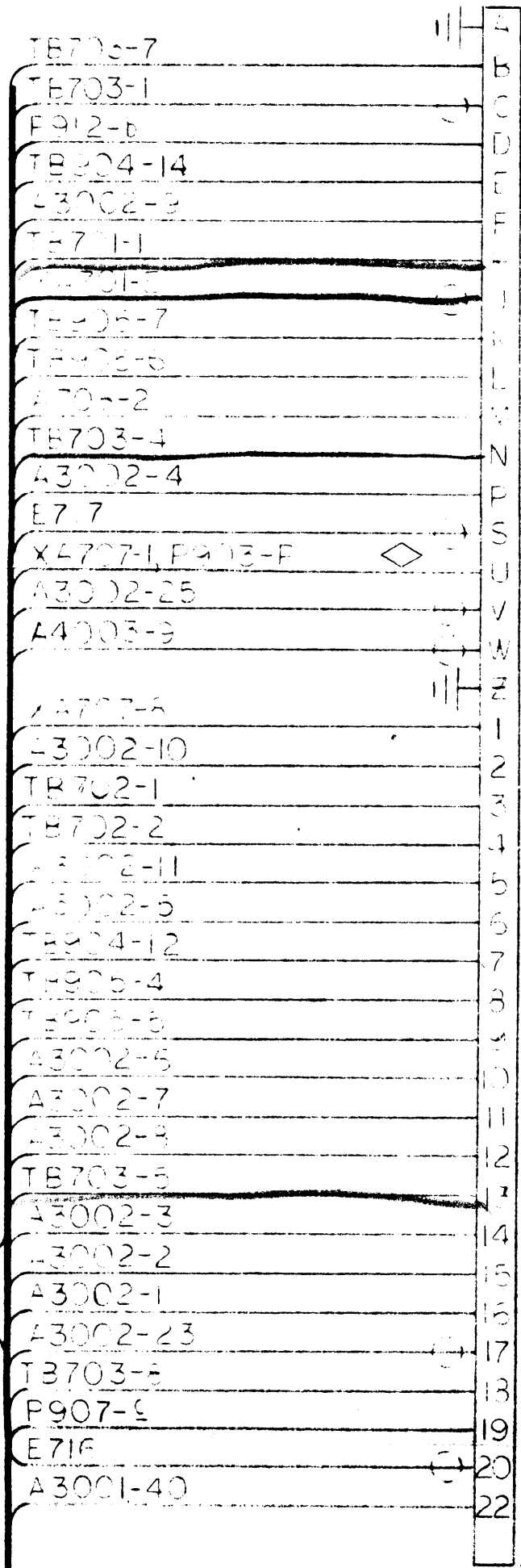
SEE CK185

(A456)

RF OUTPUT

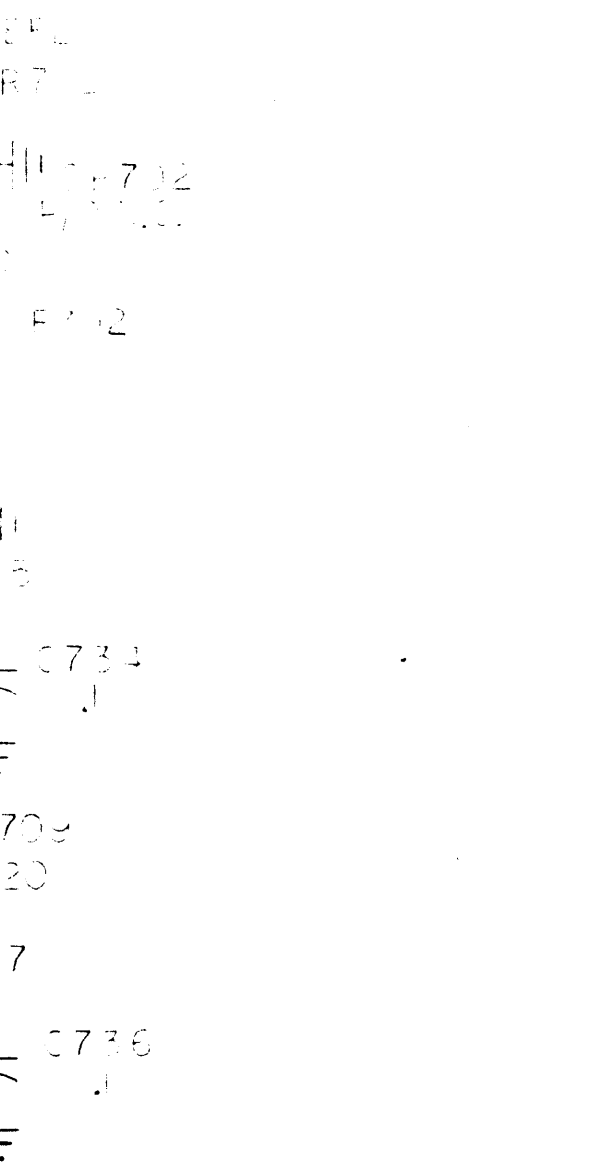


POWER A705 LEVEL ASSEMBLY



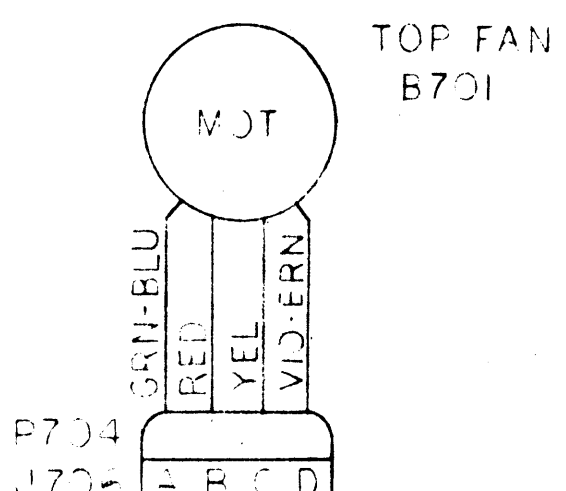
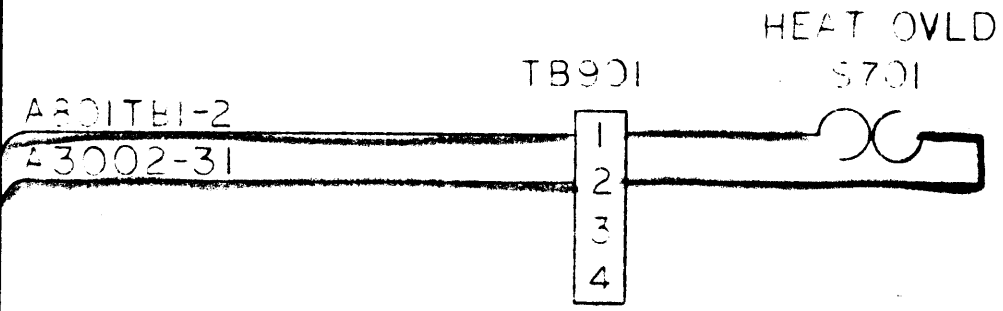
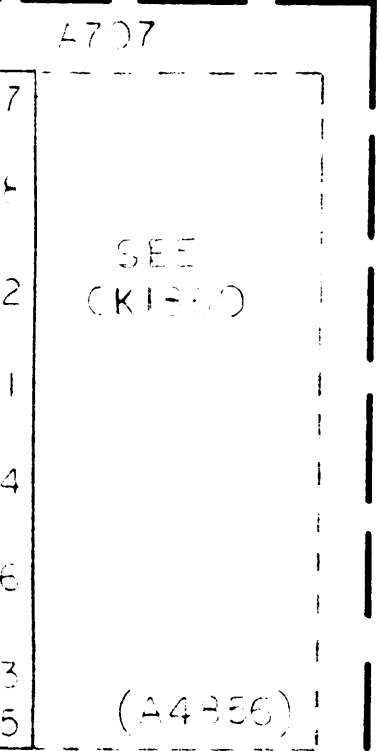
FOR AUTO-TUNE:
SEE CK1645

FOR MANUAL-TUNE:
SEE CK1947



XA705-5
XA705-20

CONNECTIONS



C8303
A4002-1

A4002-3

C807

A4001-1, A

A4001-3, A4

XA703-E, X
XA703-9

SCREEN CURRENT
M4001

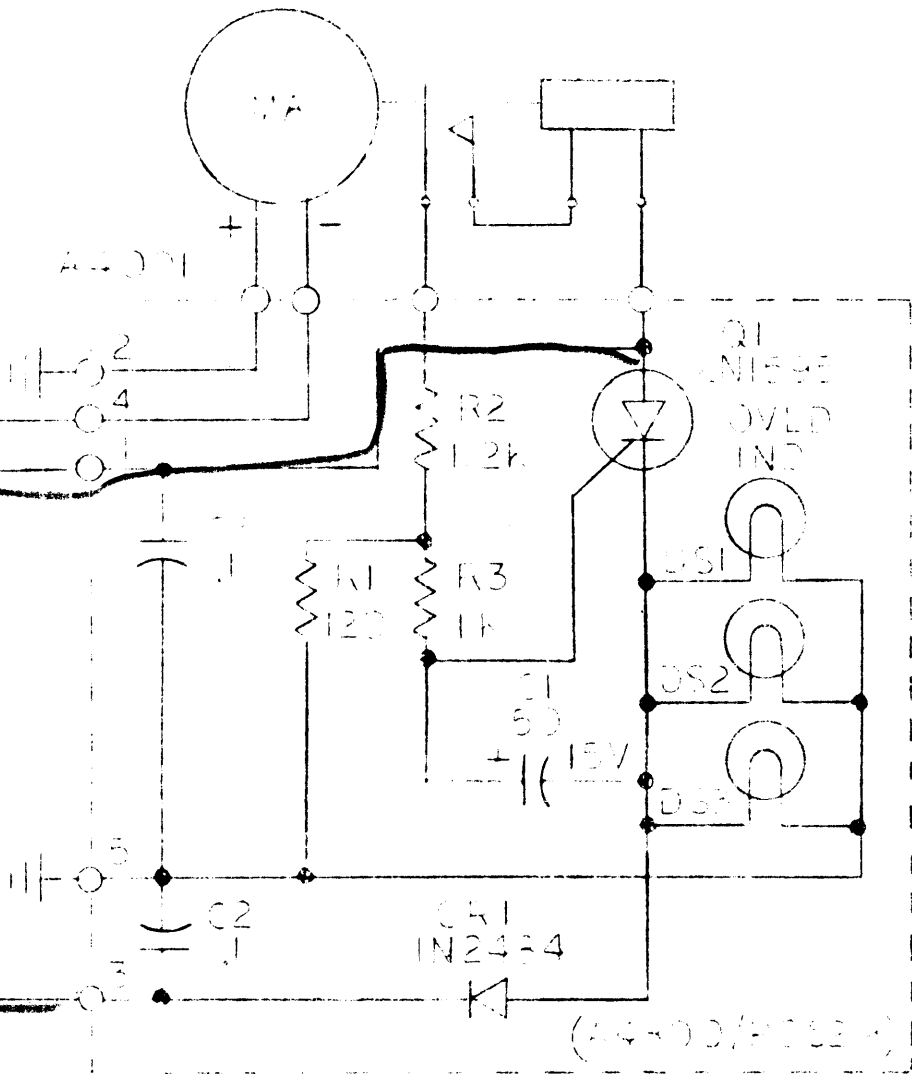
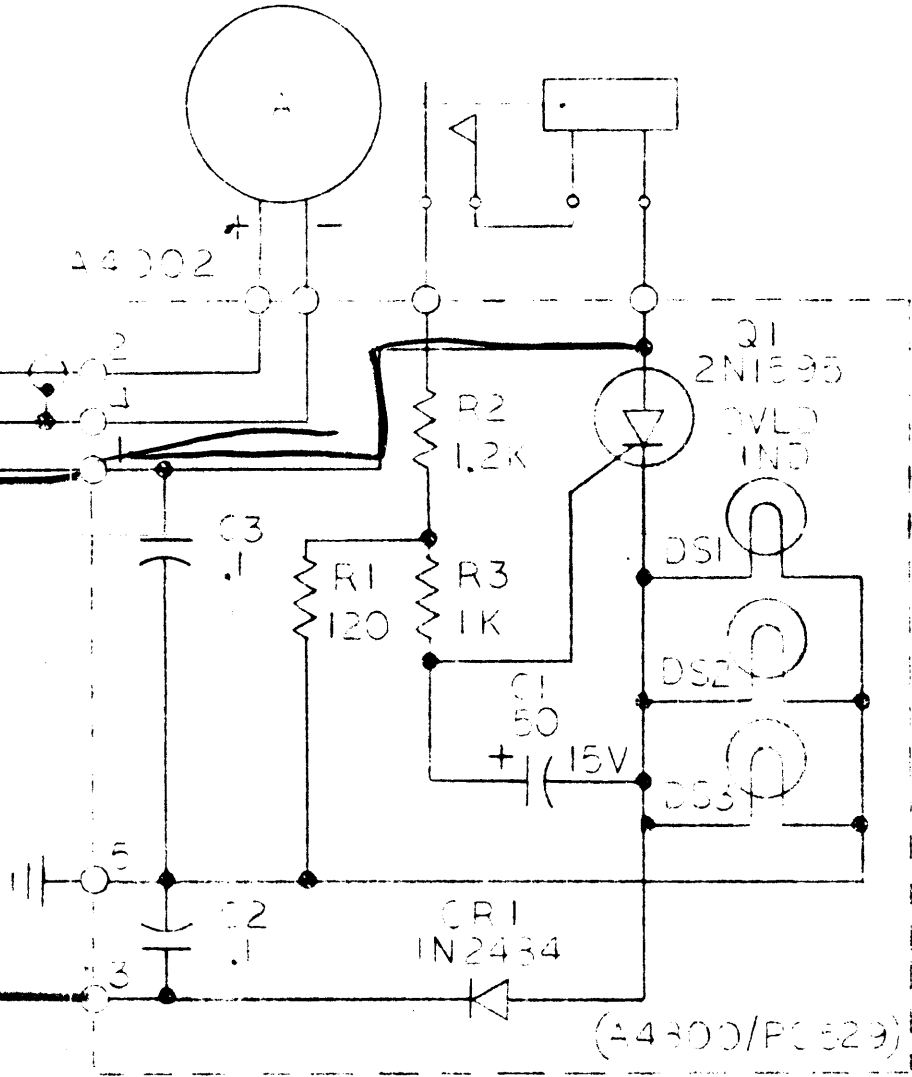
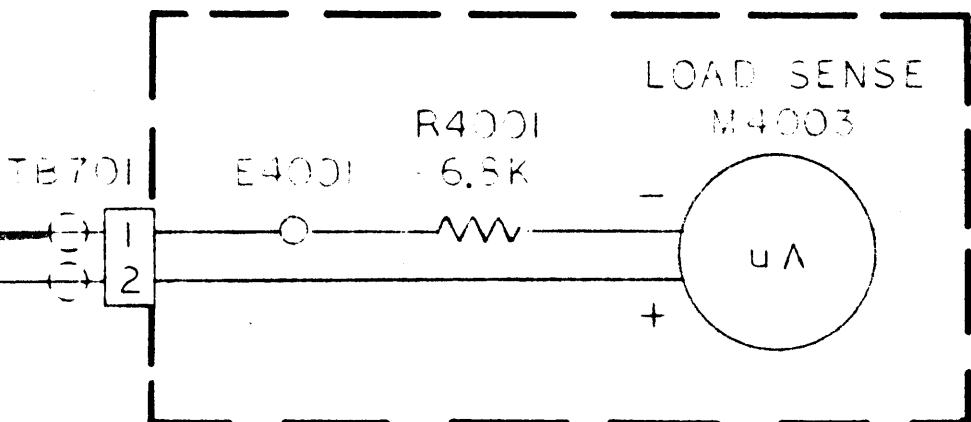


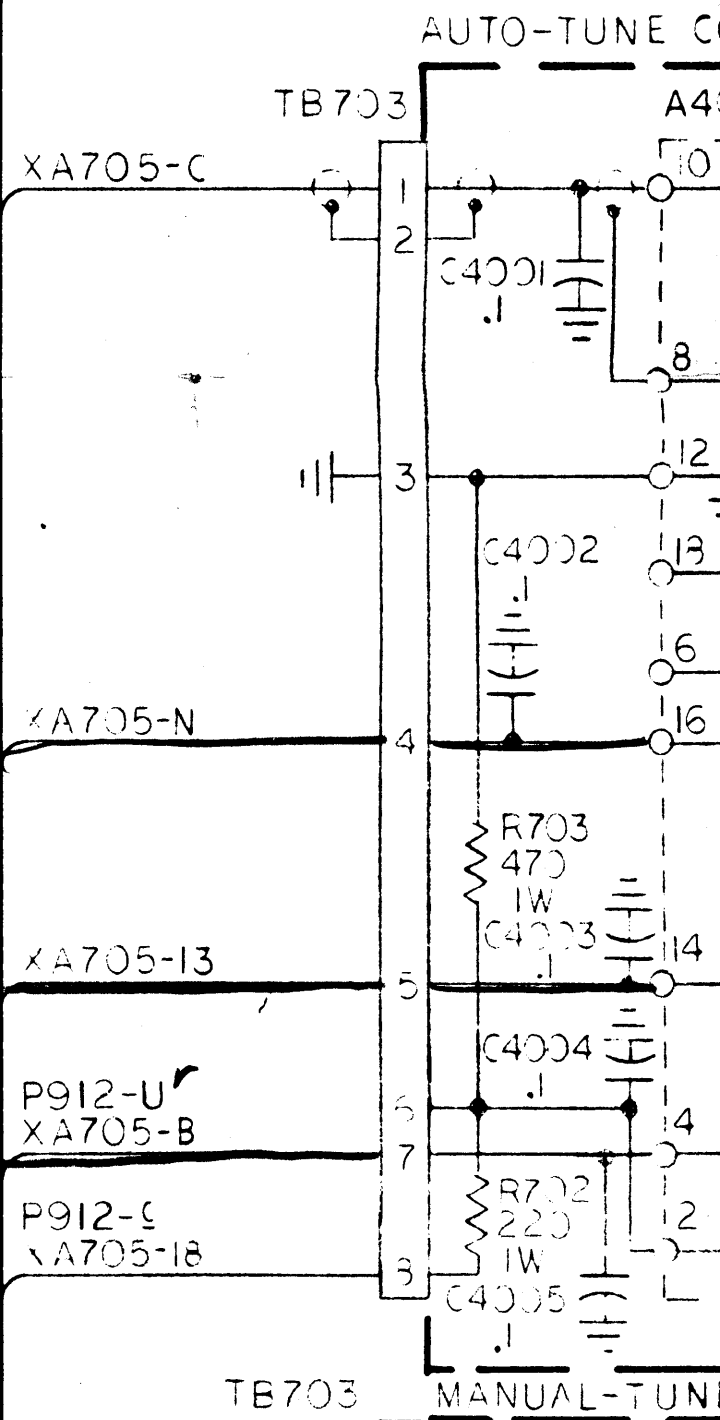
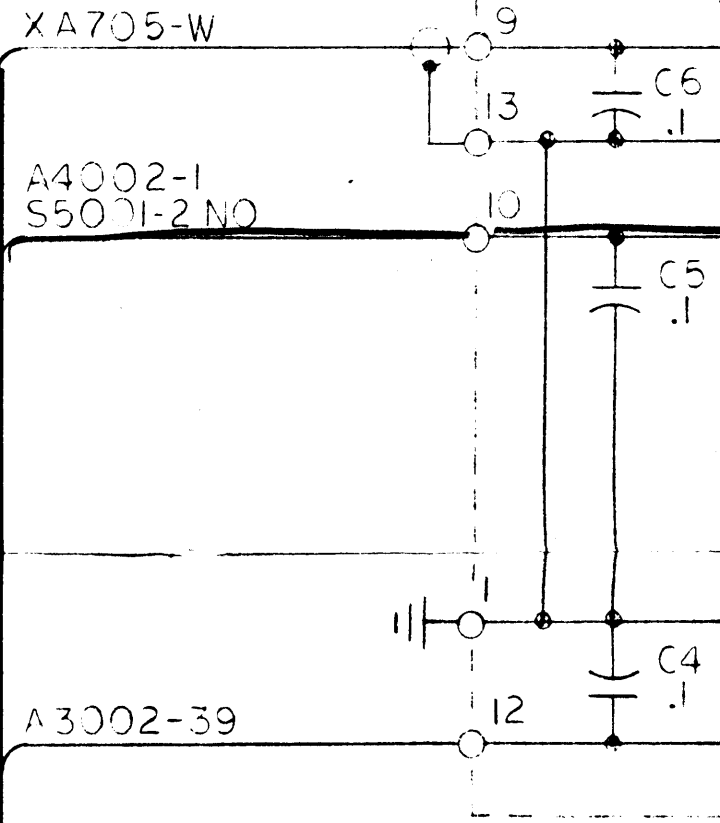
PLATE CURRENT
M4002



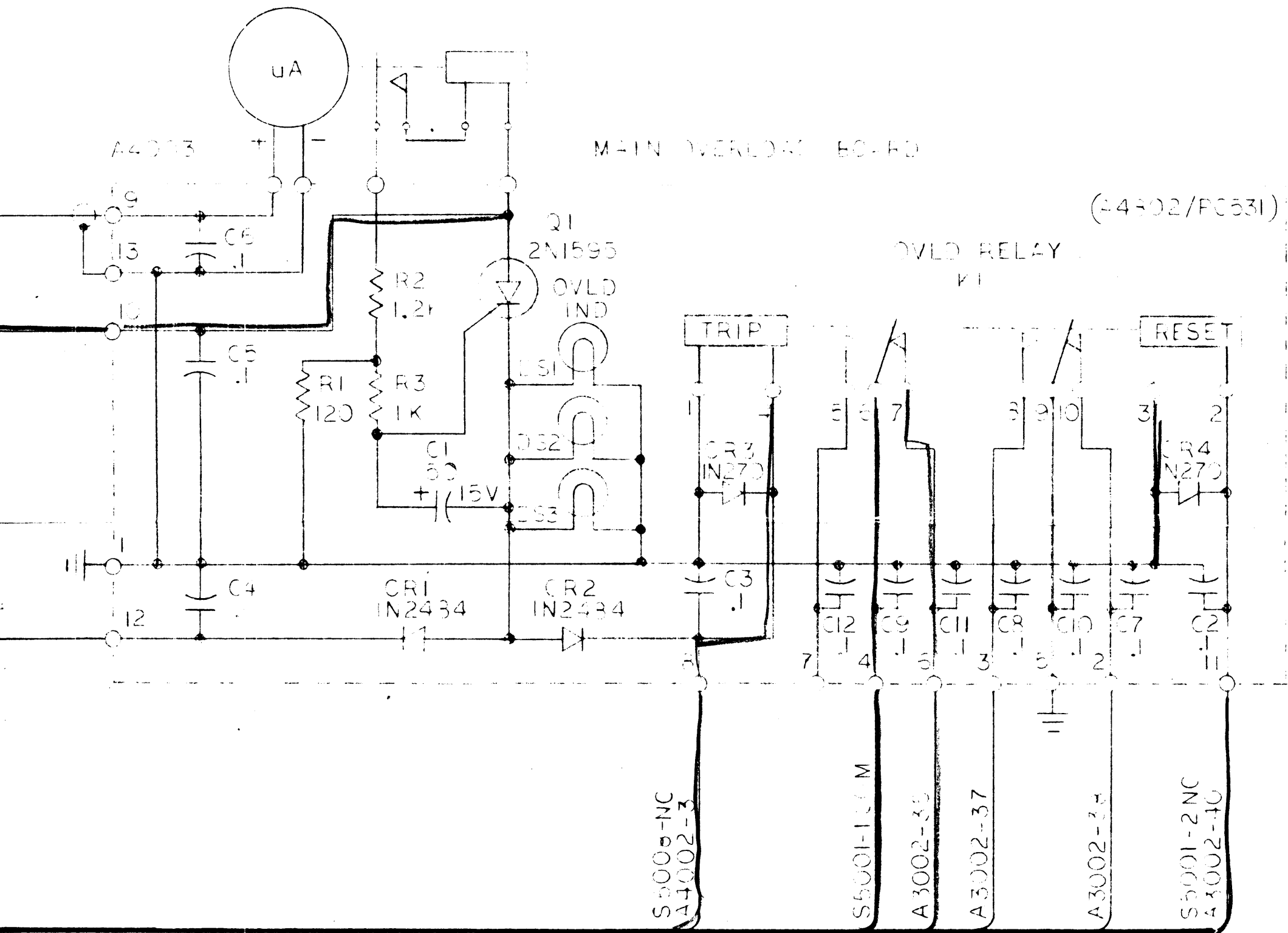
AUTO-TUNE CONNECTIONS



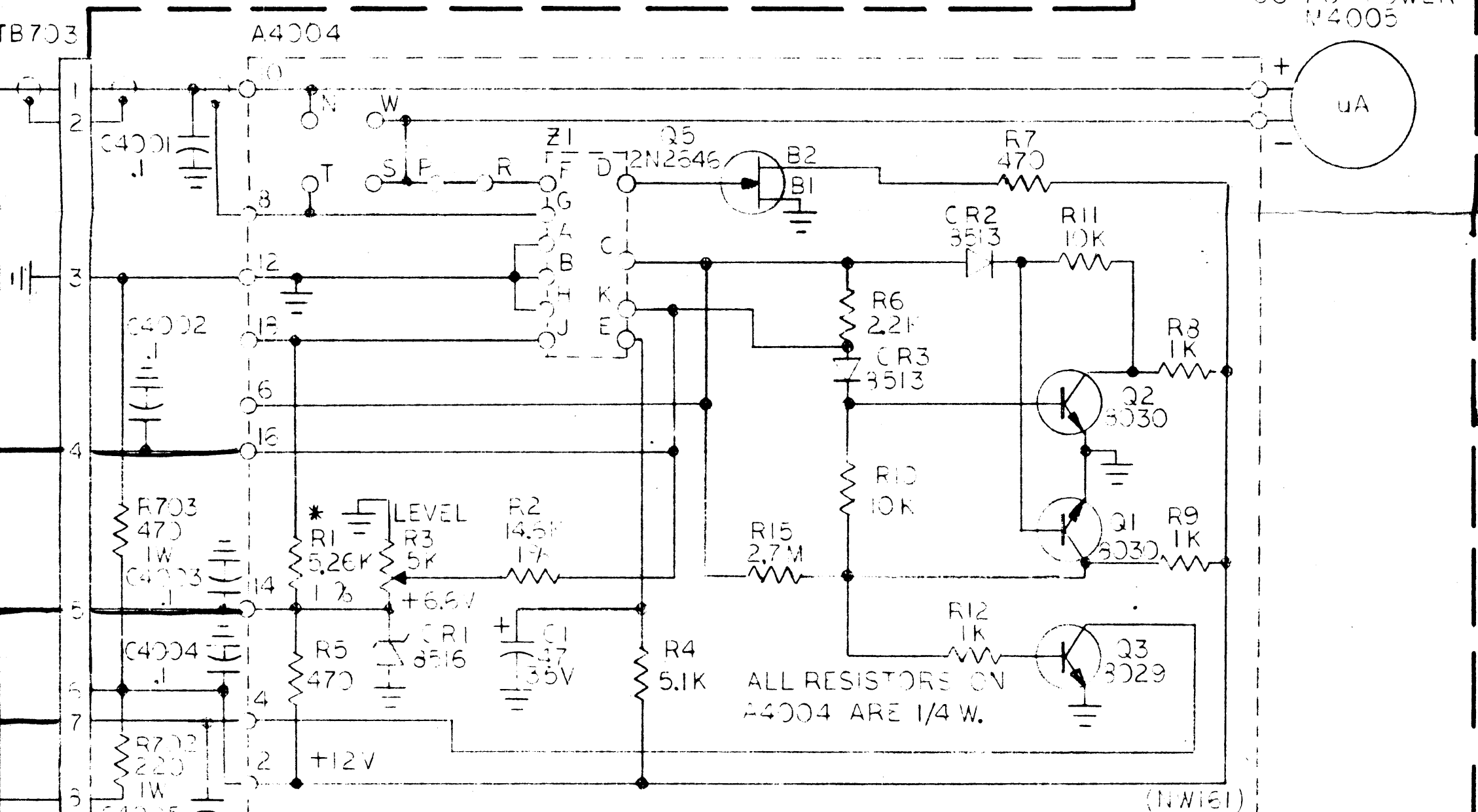
REFLECTE
M



REFLECTED POWER
M4004

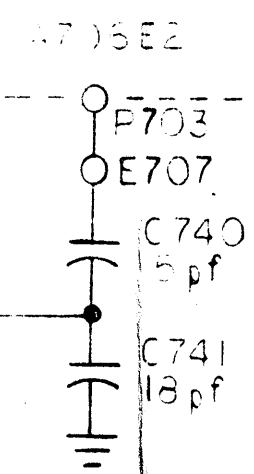
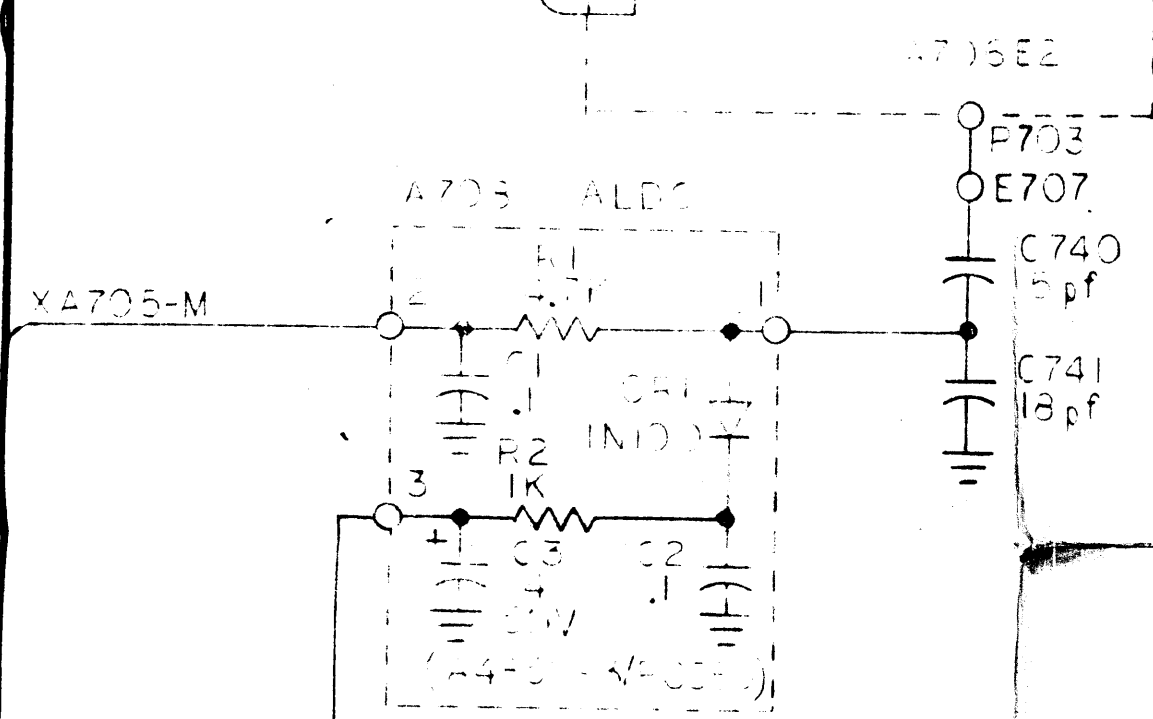
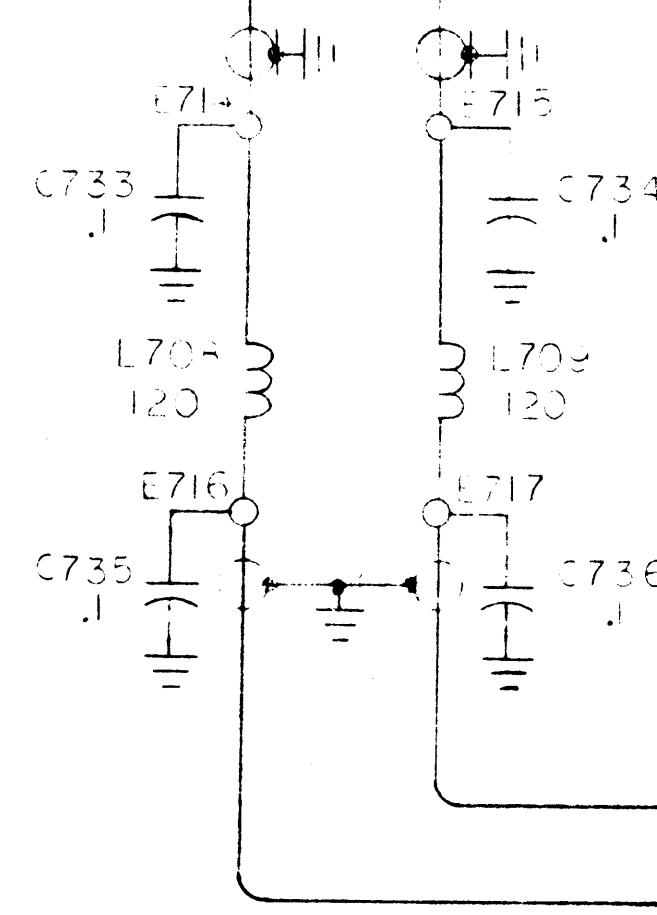
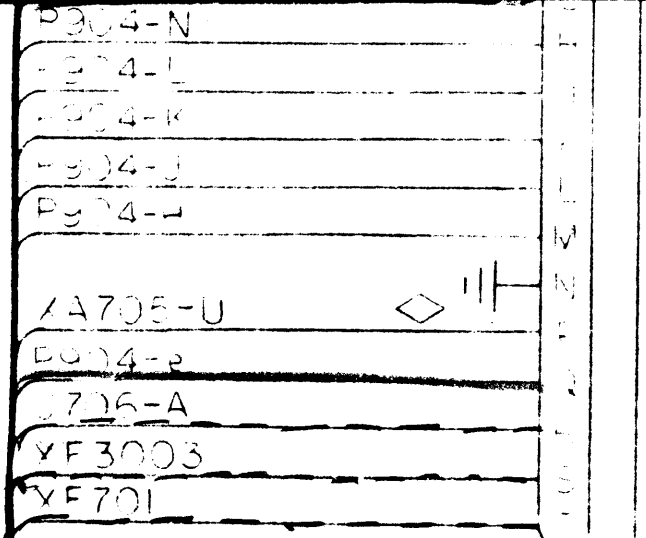


AUTO-TUNE CONNECTIONS

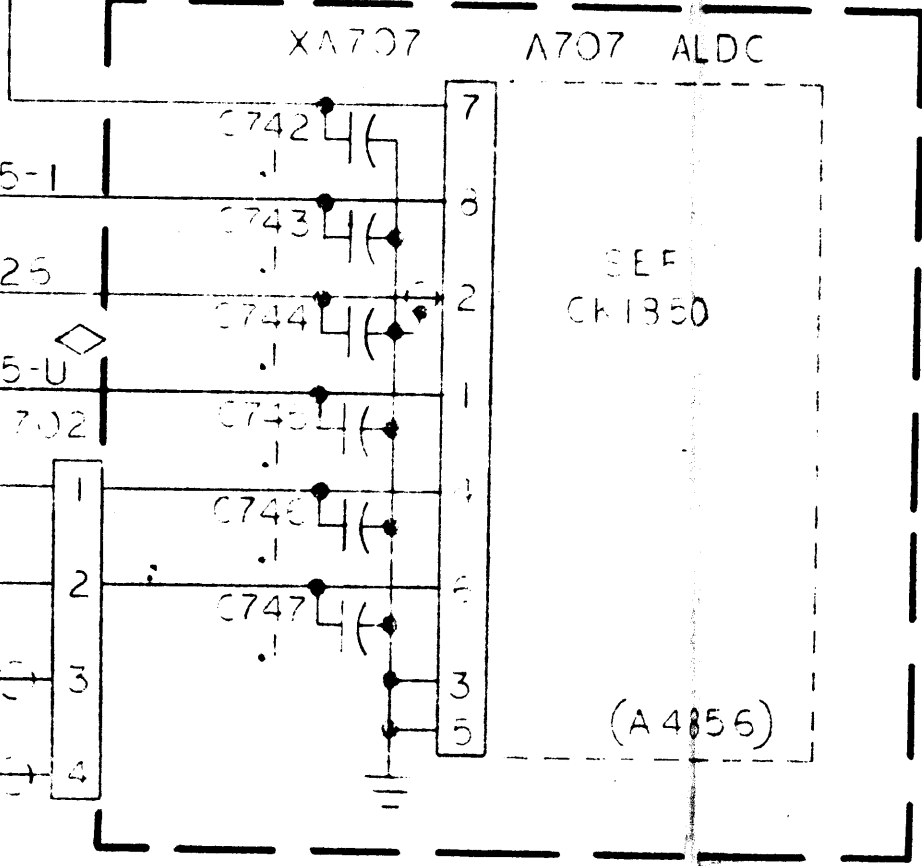


* NOMINAL VALUE, VALUE SET DURING CALIBRATION.

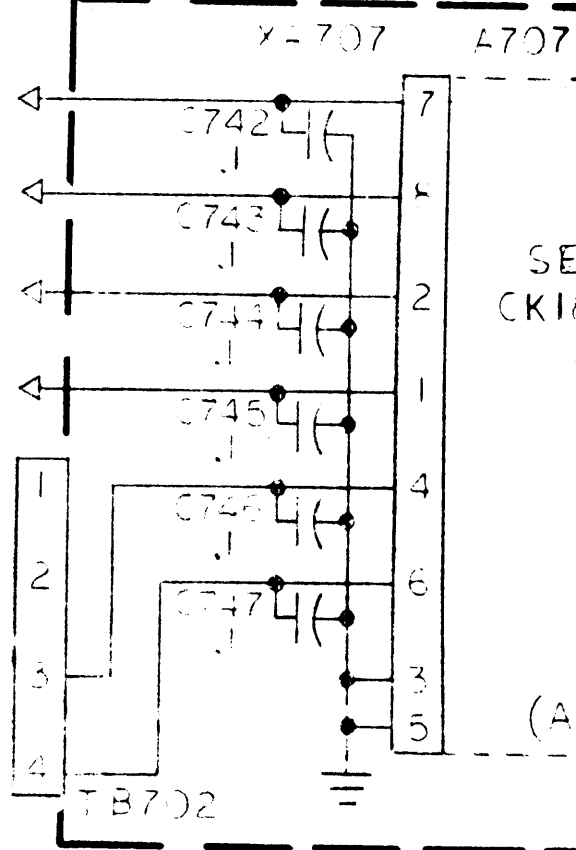
MANUAL-TUNE CONNECTIONS



AUTO-TUNE CONNECTIONS

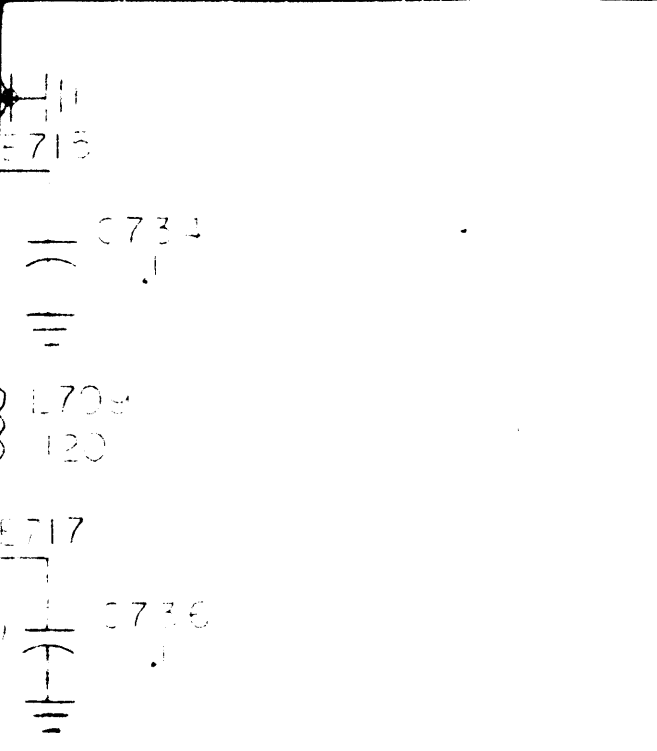


MANUAL-TUNE CONNECTIONS



TO SH.4

- Note 1. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. FOR COMPLETE DESIGNATION PREFIX THE PART DESIGNATION WITH THE SUB-ASSEMBLY DESIGNATION.
- Note 2. \diamond IS A REFERENCE INDICATOR FOR THE +24 V REGULATED DC SUPPLY.
- Note 3. UNLESS OTHERWISE SPECIFIED:
 ALL RESISTANCE VALUES IN OHMS, 1/2 WATT.
 ALL CAPACITANCE VALUES IN MICROFARADS.
 ALL INDUCTANCE VALUES IN MICROHENRIES.



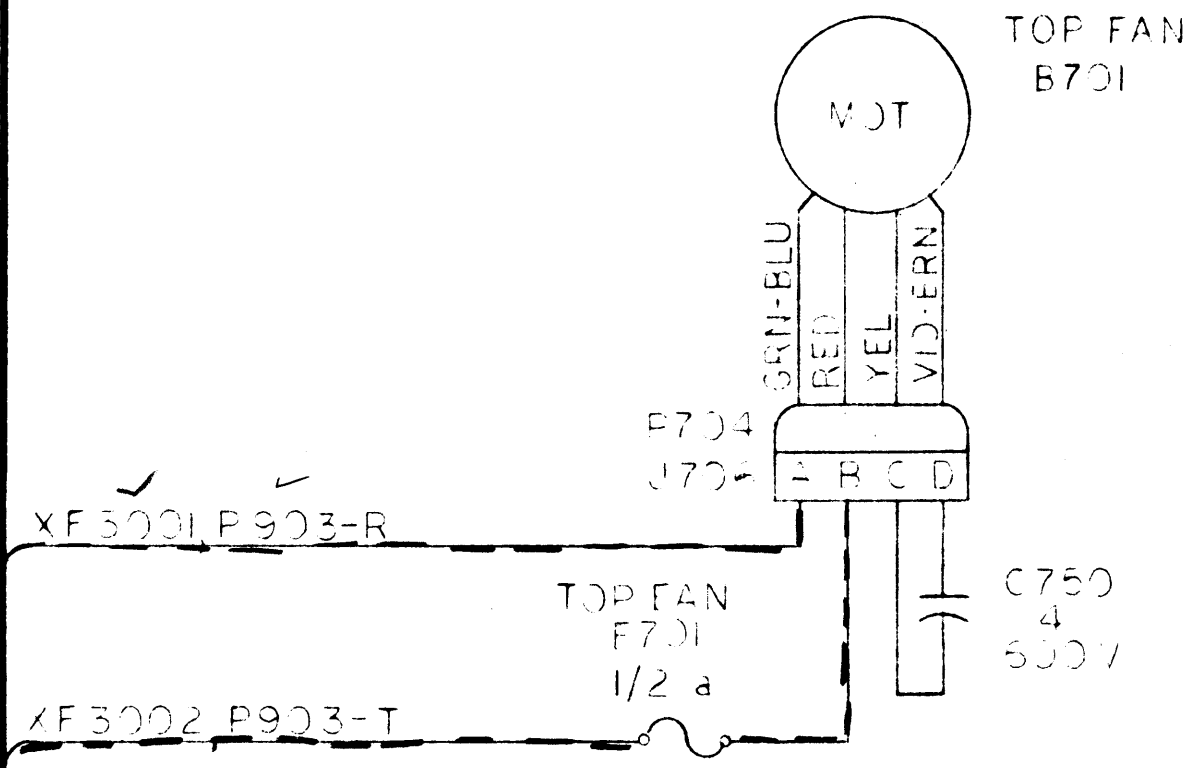
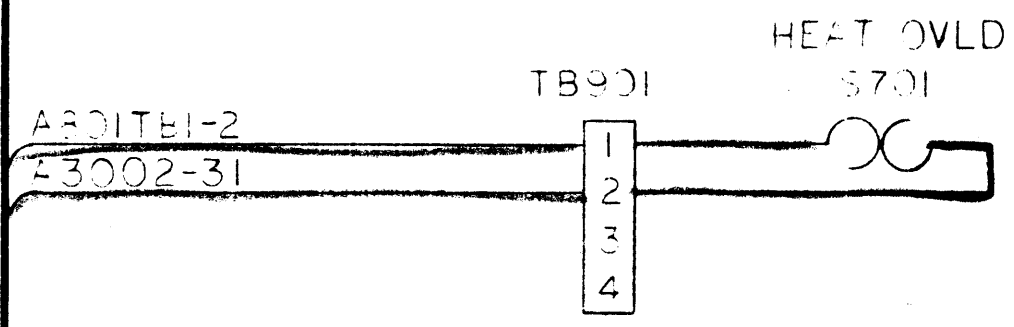
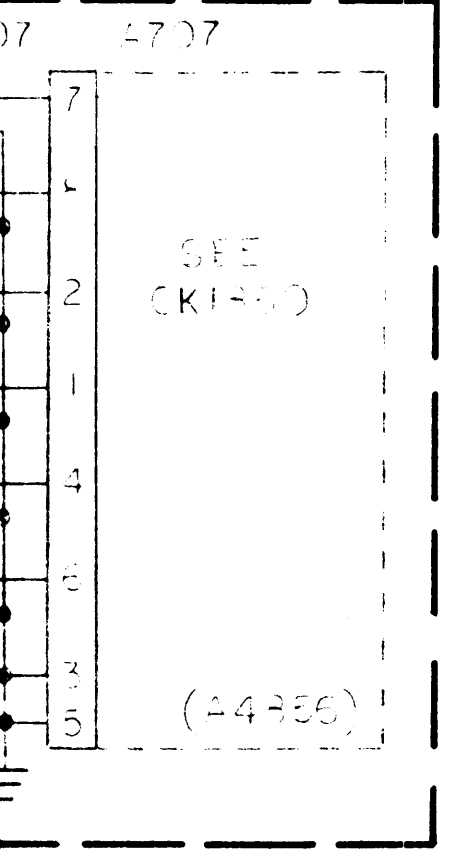
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A4003-9	2
XA703-8	3
A3002-10	4
TB702-1	5
TB702-2	6
A3002-11	7
A3002-5	8
TB904-12	9
TB905-4	10
TB905-6	11
A3002-6	12
A3002-7	13
A3002-8	14
TB703-5	15
A3002-3	16
A3002-2	17
A3002-1	18
A3002-23	19
TB703-5	20
P907-5	21
E716	22
A3001-40	23

XA705-S

XA705-20

* SHIELDS OF PINS C & D TIED TOGETHER. (AX5173)

WIRE CONNECTIONS



A4002-3

C807

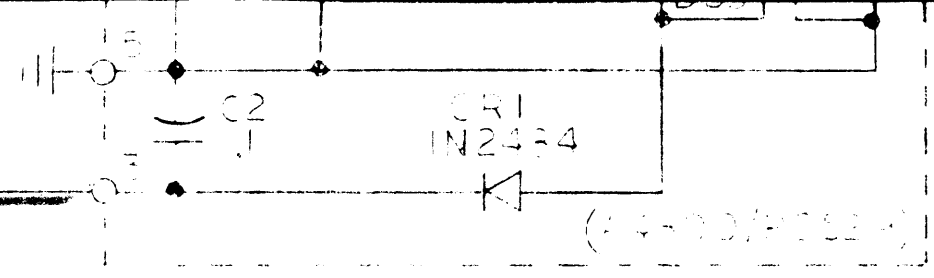
A4001-1

A4001-3

XA703-E

XA703-9

A4002-3, A4004-1, A4004-2



A3002-39

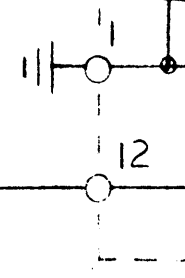
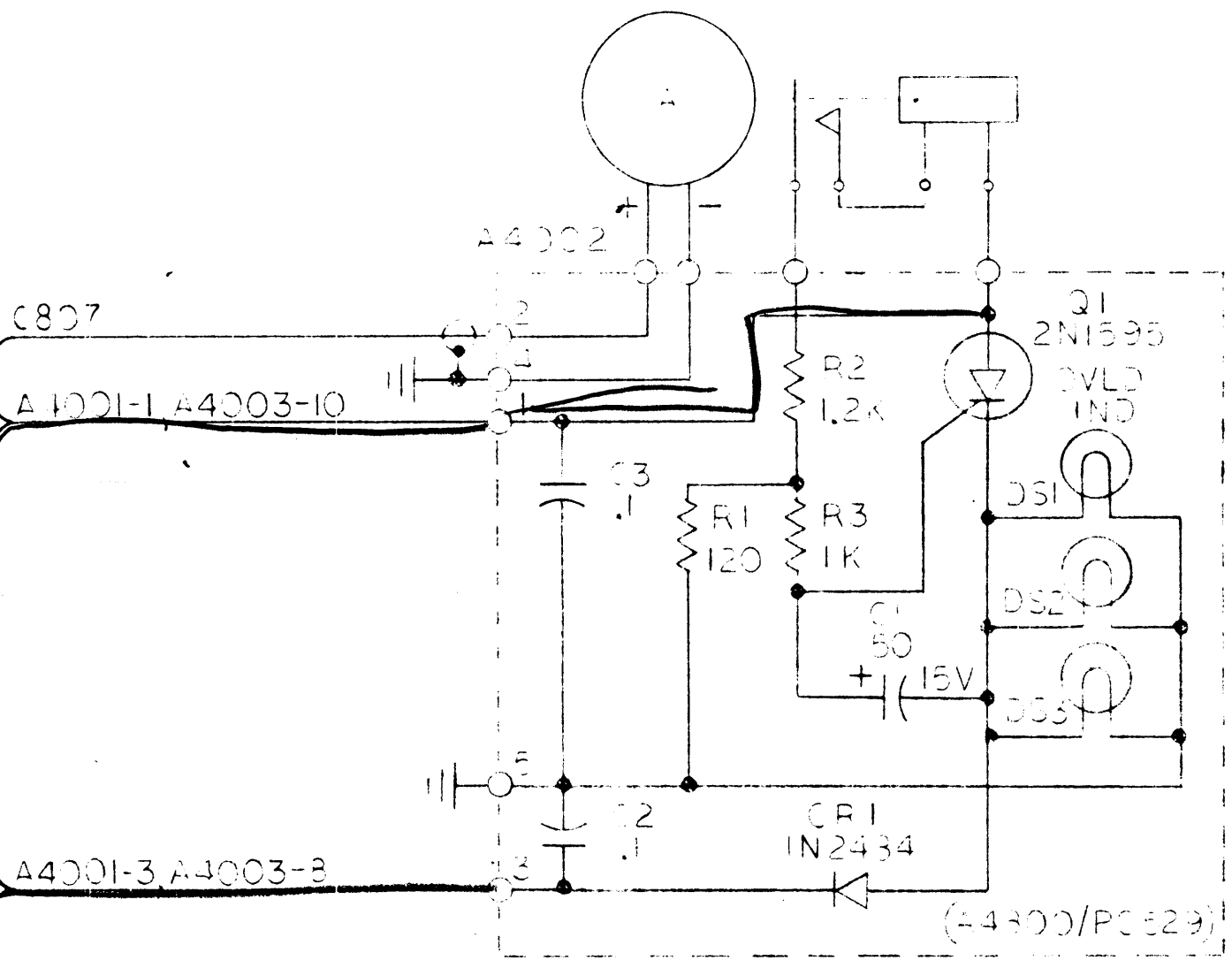
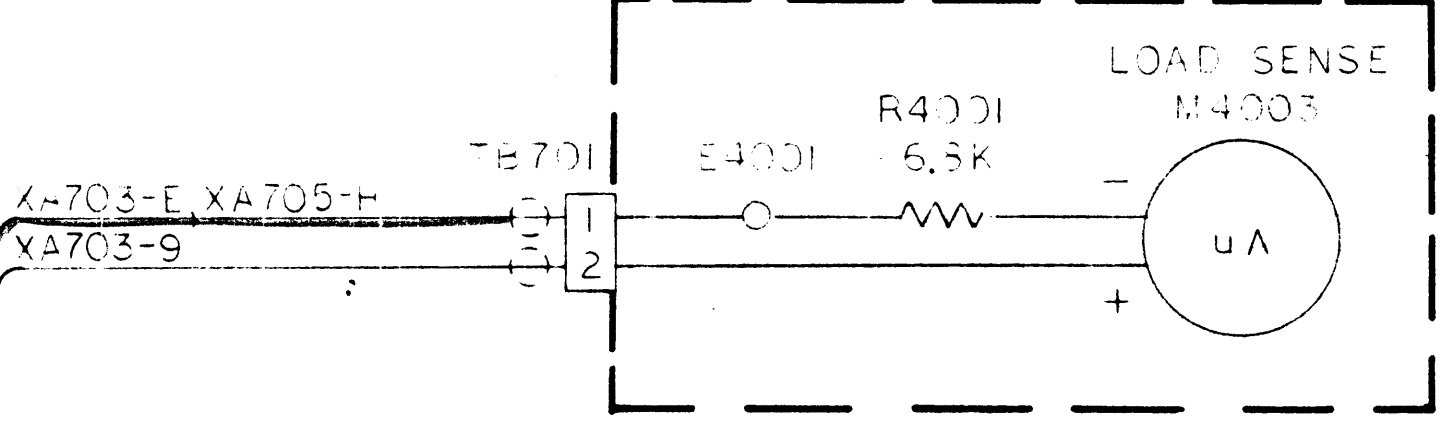


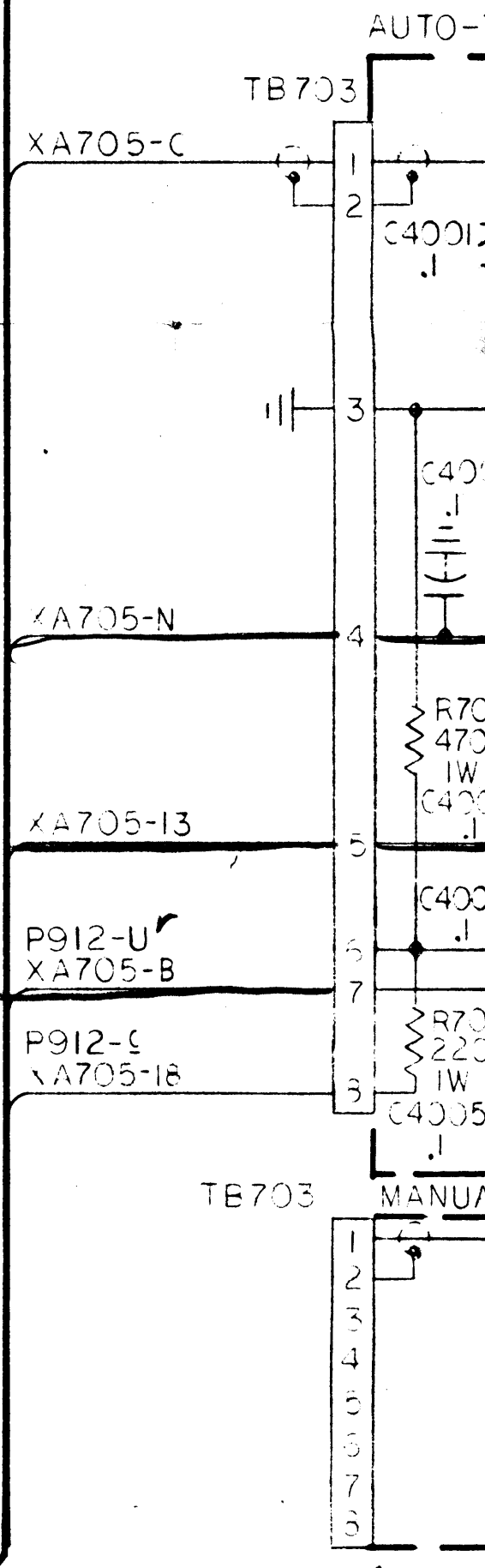
PLATE CURRENT
M4002



AUTO-TUNE CONNECTIONS

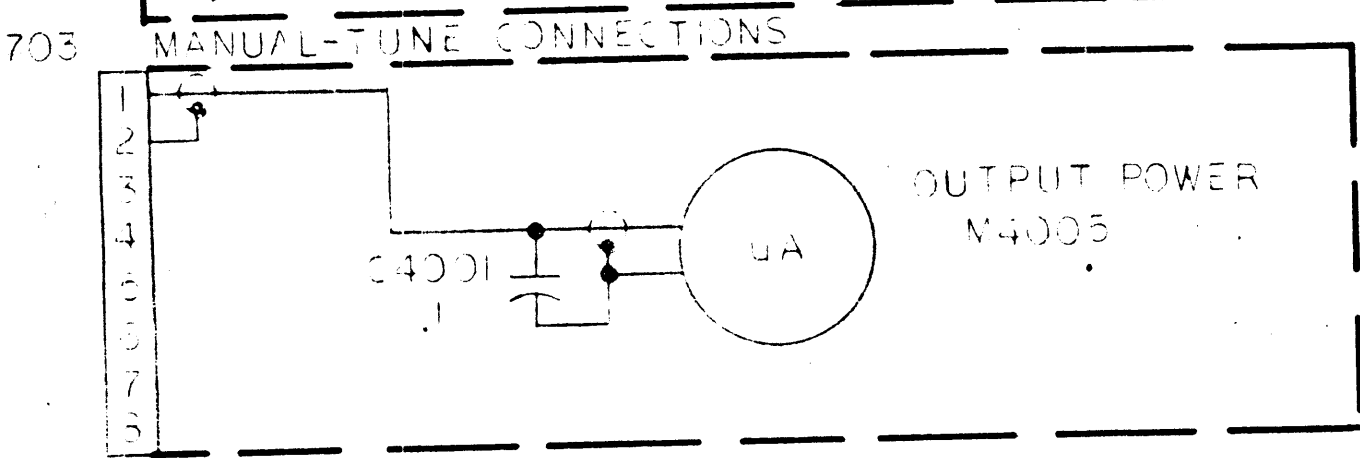
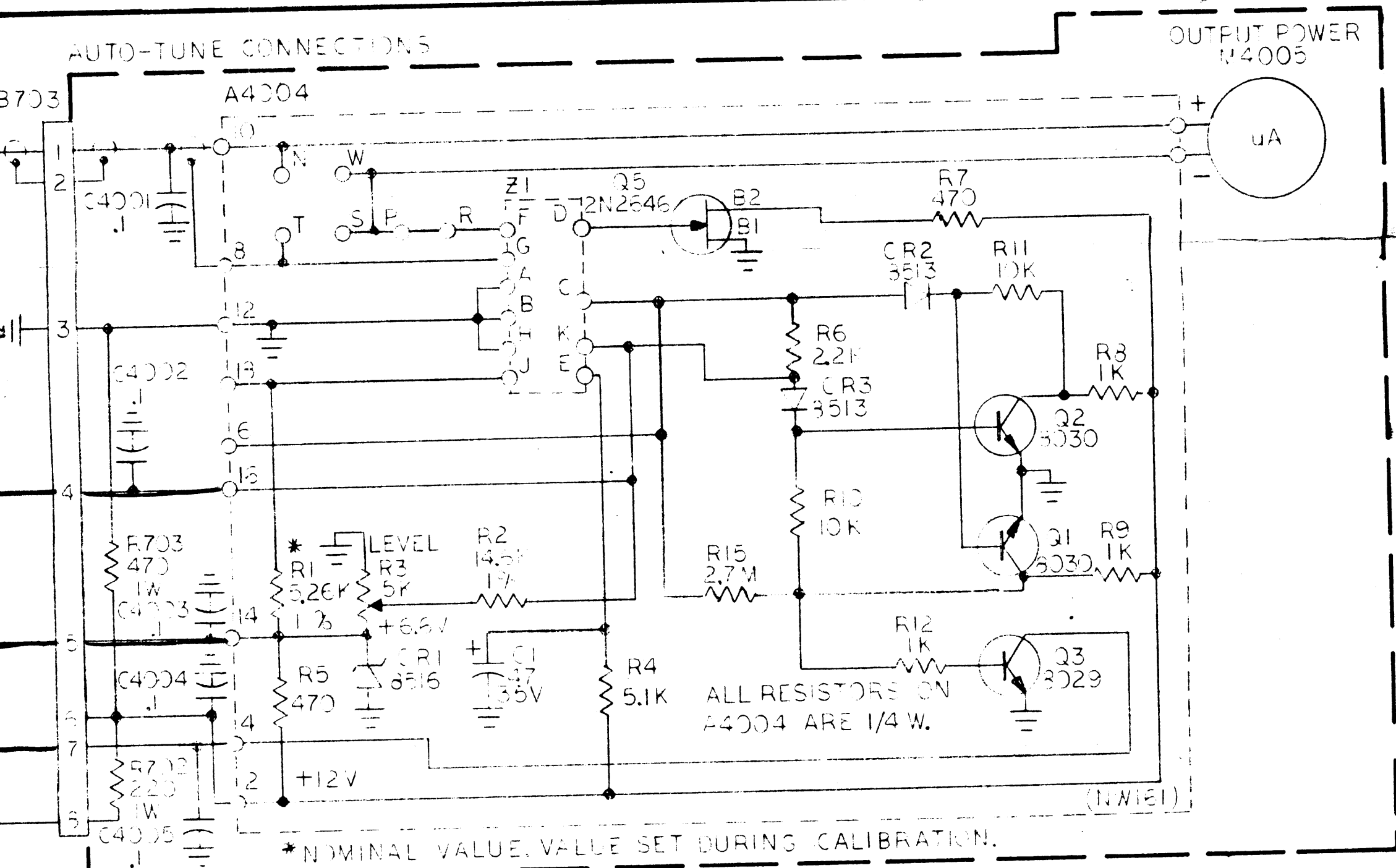
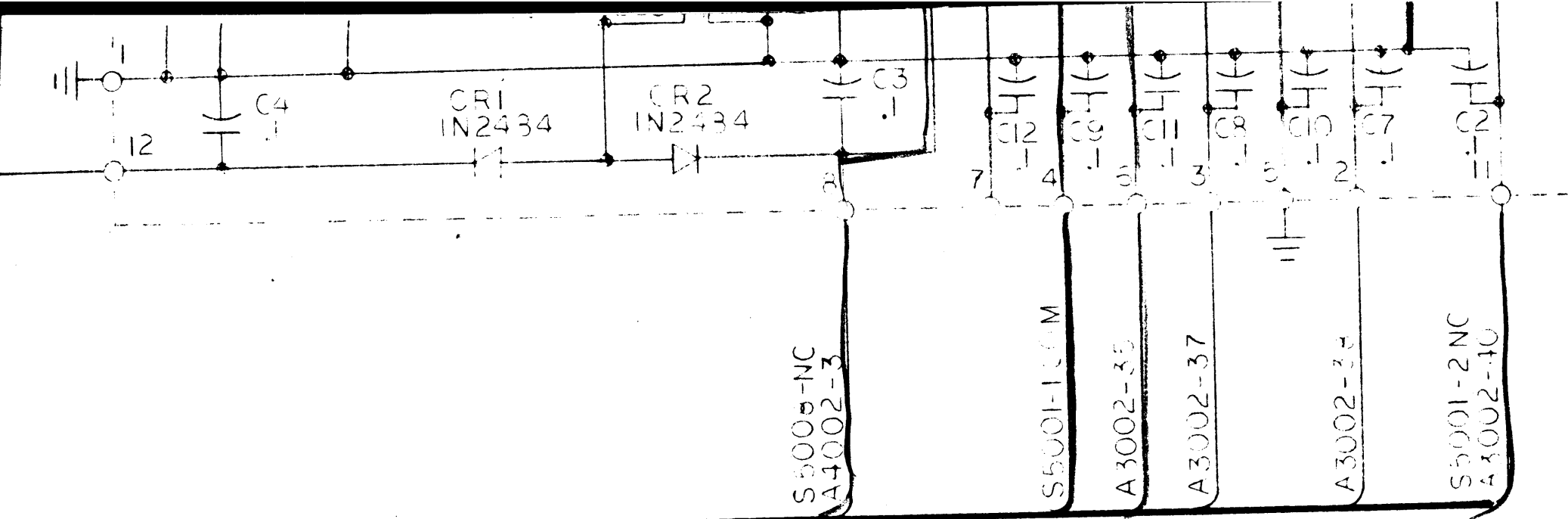


MANUAL-TUNE CONNECTIONS



REVISIONS							
ZONE	LTR	DESCRIPTION	DATE	E.M.N.NO	DRAFT	CHKD	APPD
	Ø		9-15-12		EF		
	A	REVISION 1	11/12/12	2012	EF	EF	EF
	B	CHG SWTS 1, 2, 4	1/10/14	11004	EF	EF	EF

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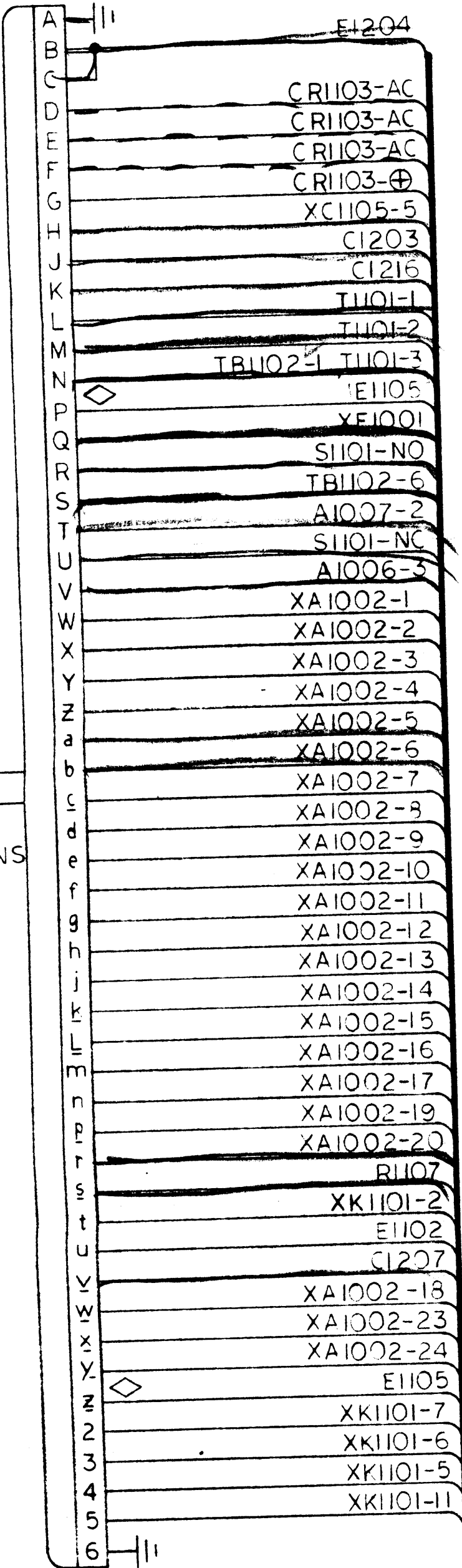


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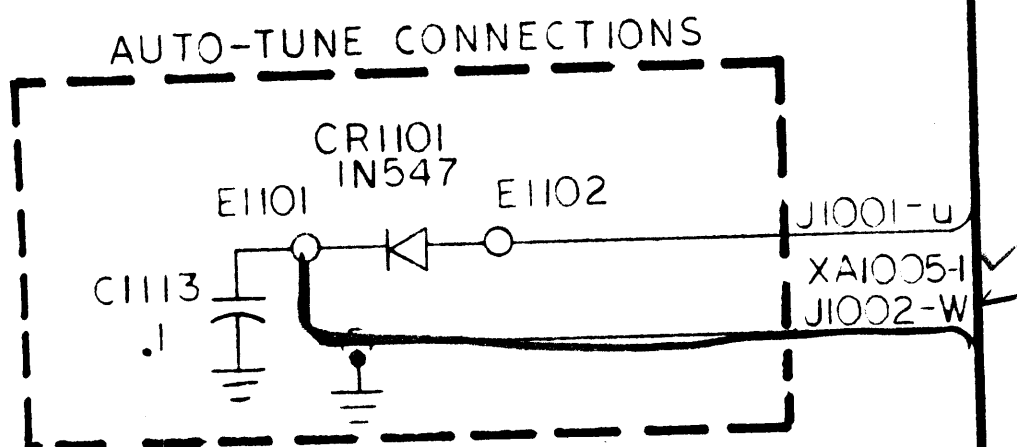
FINAL APPROVAL	<i>[Signature]</i>	DATE	15 SEP 72
MECH DES		DATE	
ELECT DES	<i>[Signature]</i>	DATE	15 SEP 72
CHECKED		DATE	
DRAWN	<i>[Signature]</i>	DATE	8 AUG 72

Figure 7-1. Schematic Diagram, HFL()-10K (Sheet 5 of 5)

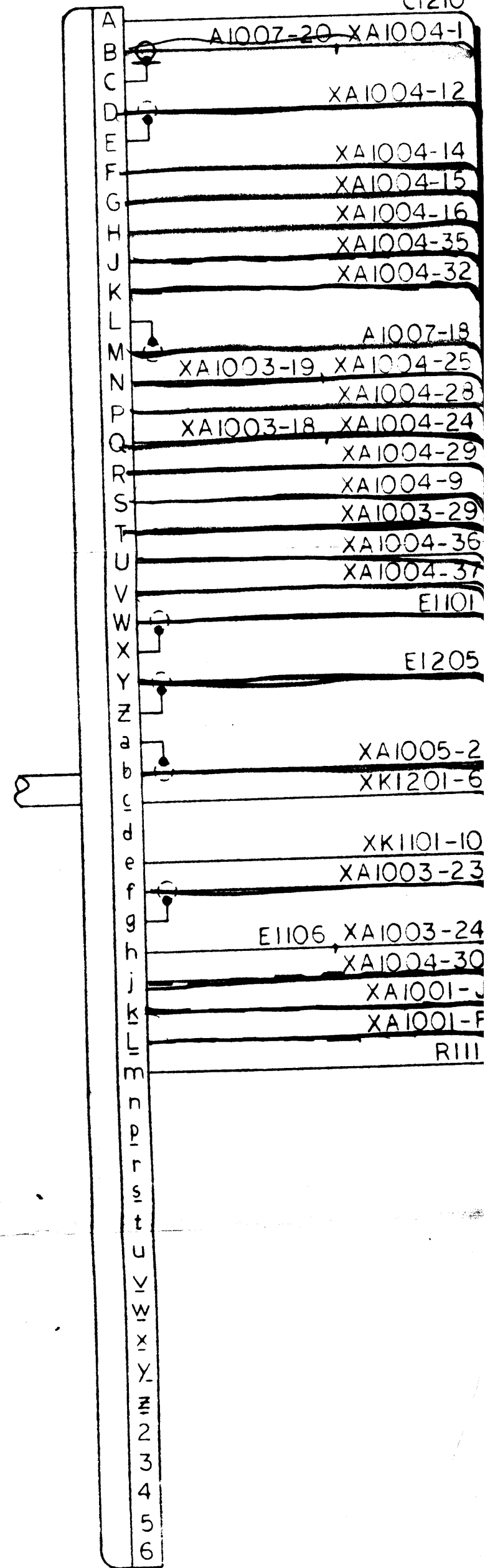
P906 J1001



SEE CK1946 FOR CONNECTIONS



P907 J1002



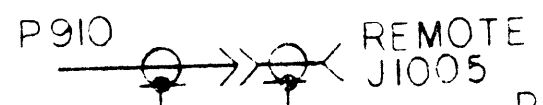
P908 J1003



P909 J1004



P910

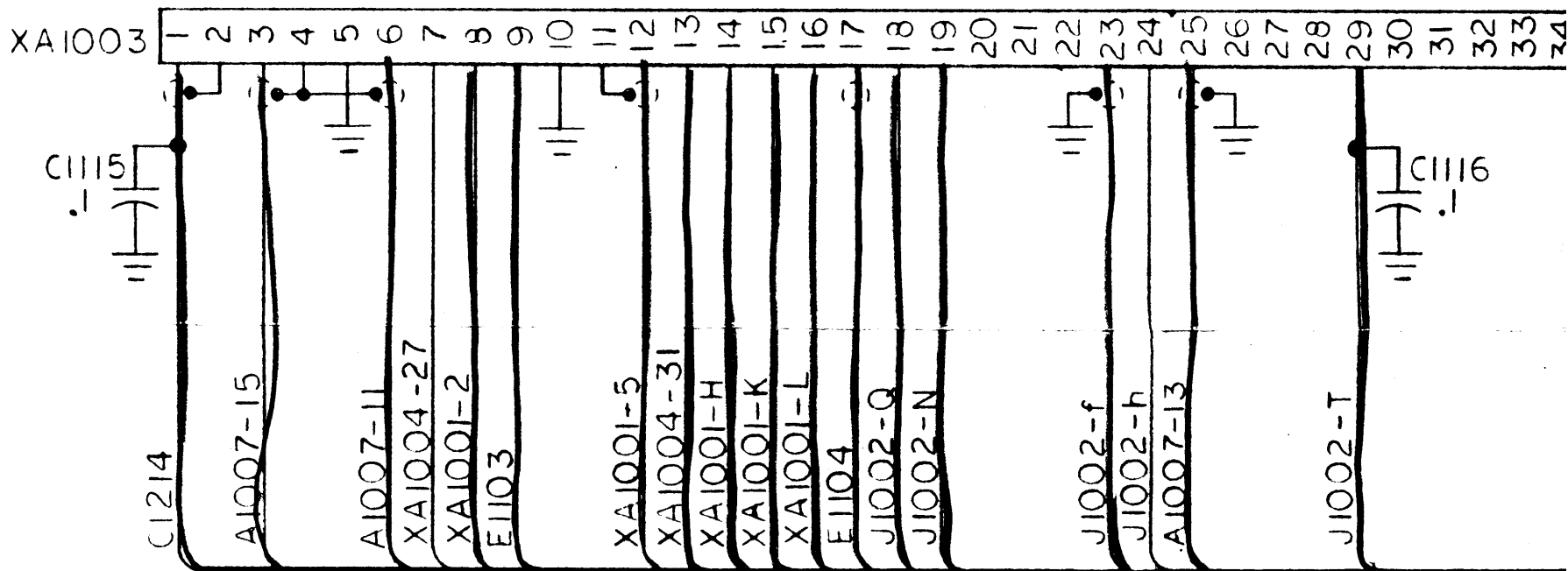


P1001

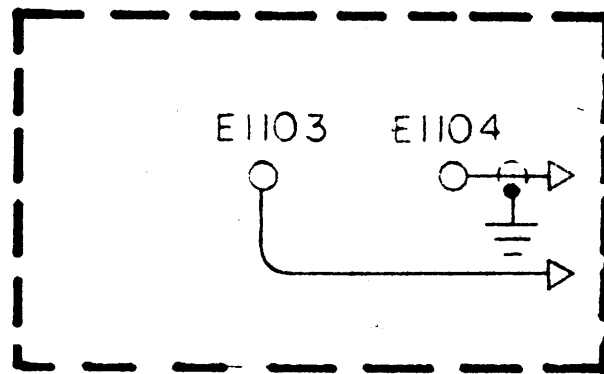
C1210
 XA1004-1
 A1004-12
 A1004-14
 A1004-15
 A1004-16
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 A1007-18
 A1004-25
 A1004-23
 A1004-24
 A1004-29
 A1004-9
 A1003-29
 A1004-36
 A1004-37
 E1101
 E1205
 KA1005-2
 XK1201-5
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 A1003-23
 A1003-24
 A1004-30
 XA1001-J
 XA1001-F
 R1111

A1003 IPA SERVO AMP

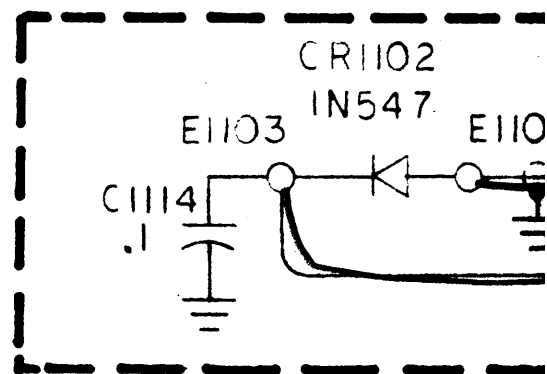
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 FOR MANUAL-TUNE: A1003, C1115, C1116 NOT INSTALLED.



MANUAL-TUNE CONNECTIONS



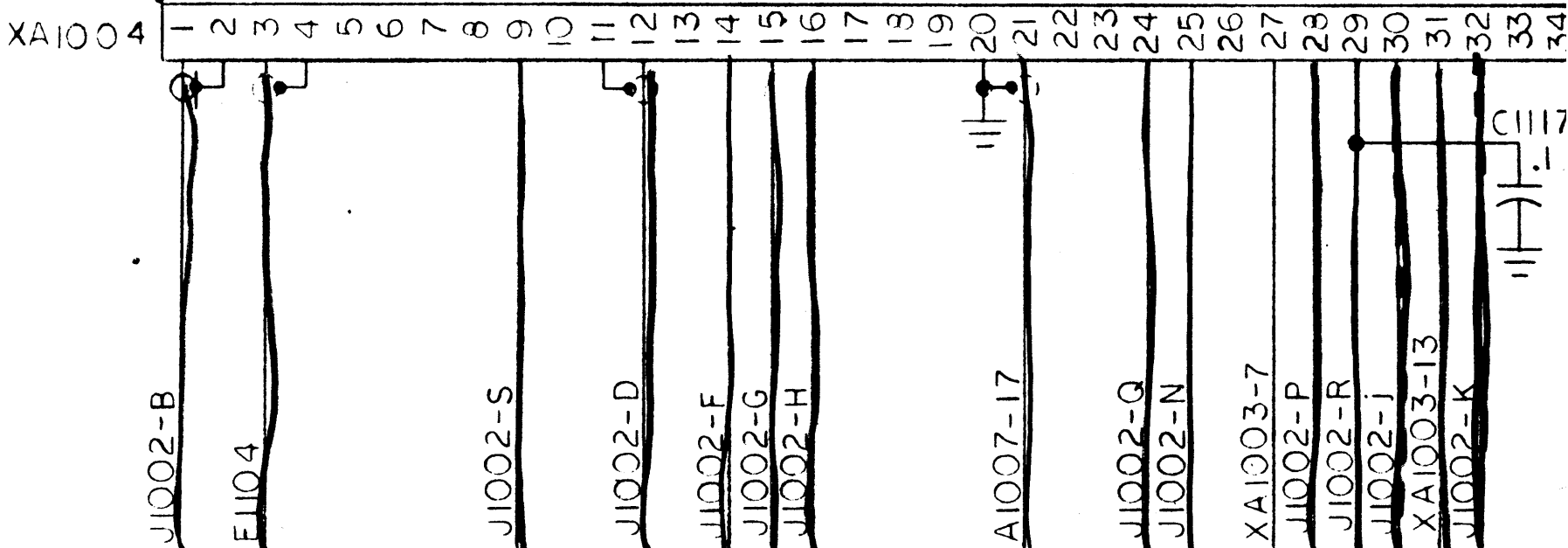
AUTO-TUNE CONNECTIONS

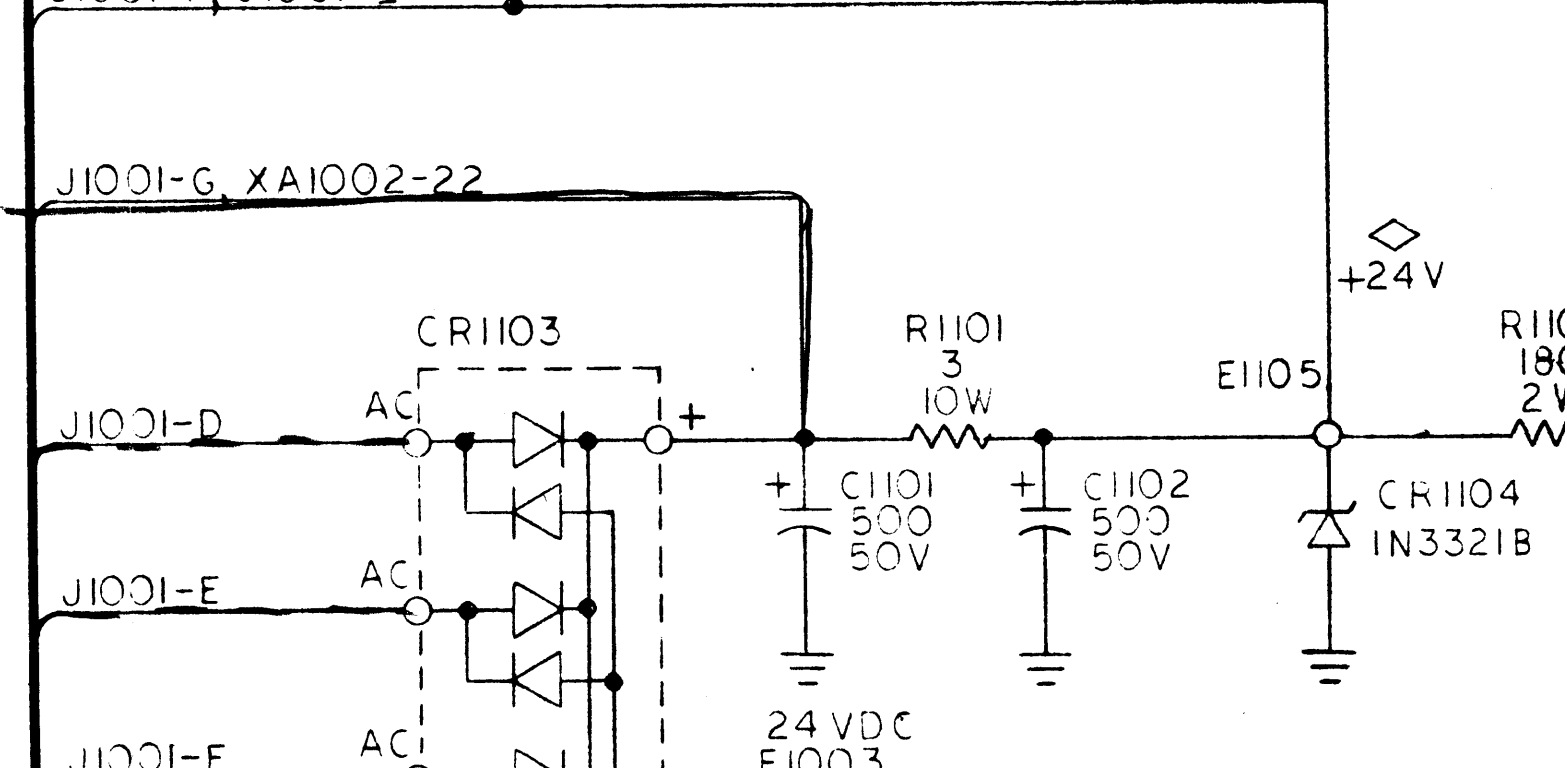
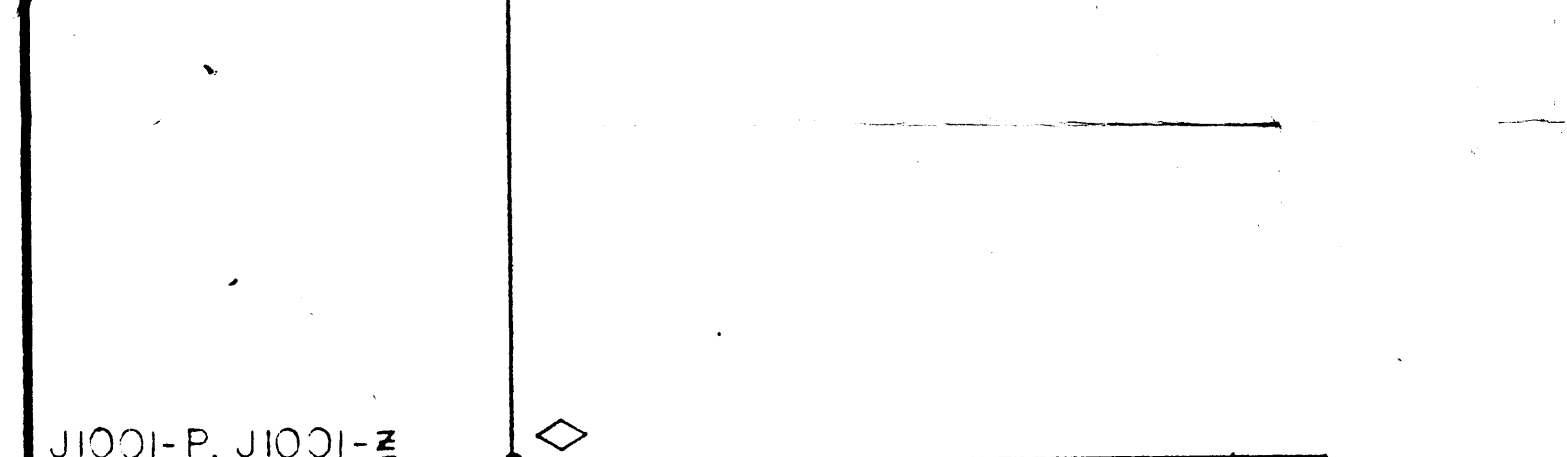
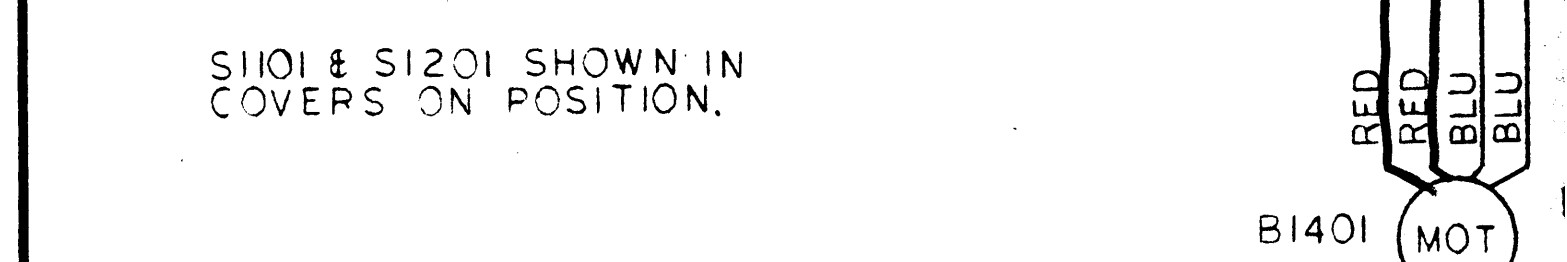
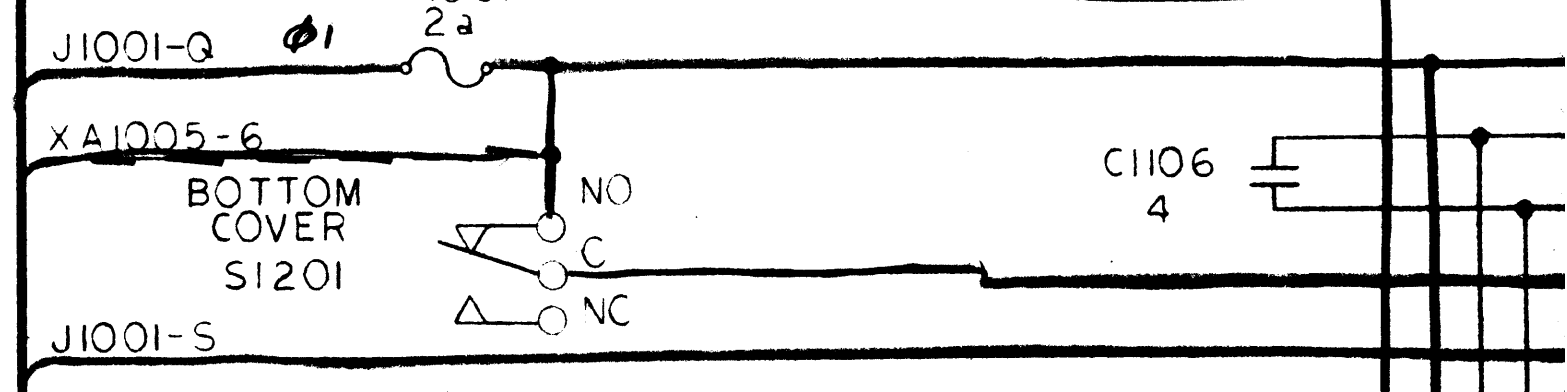
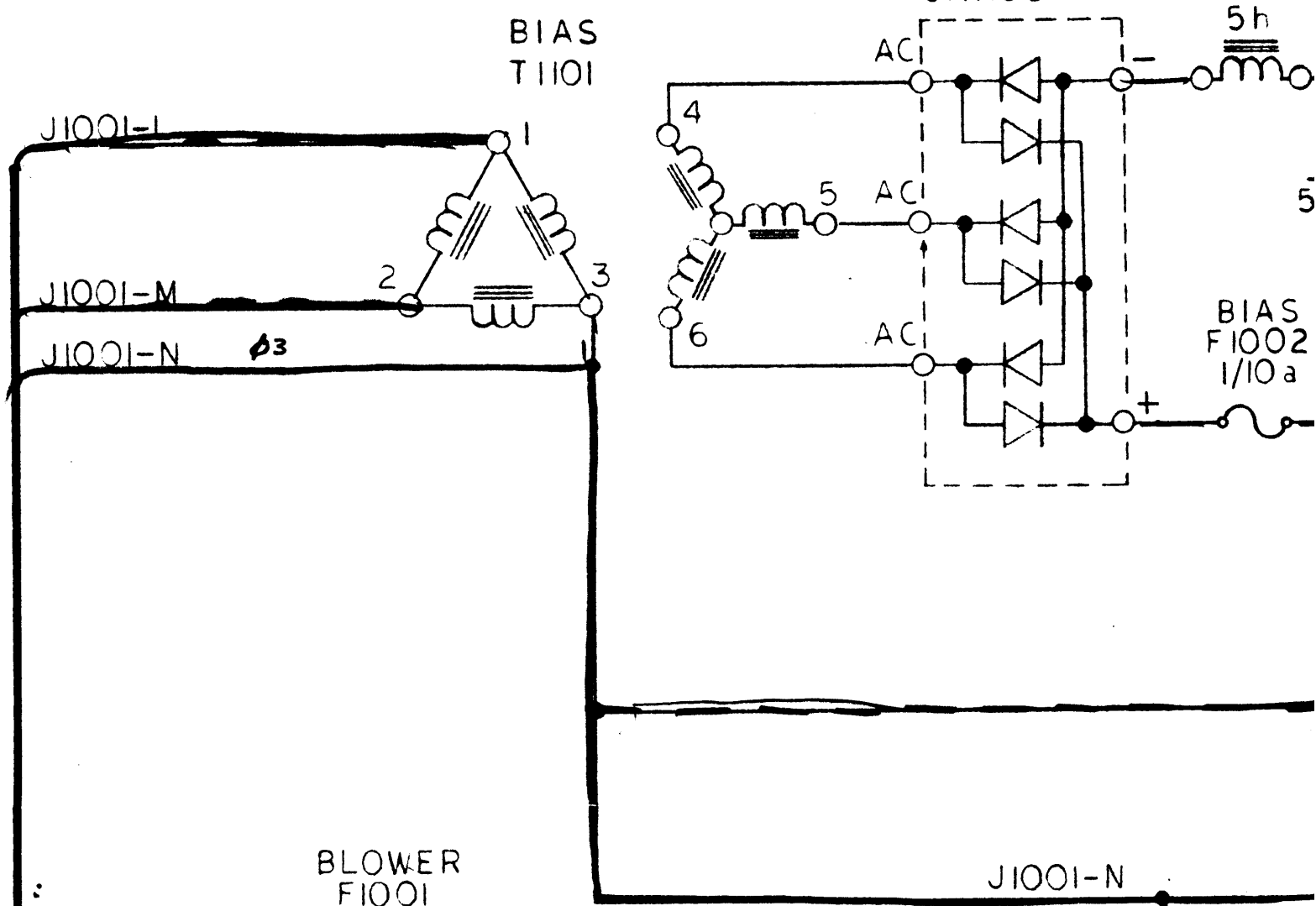
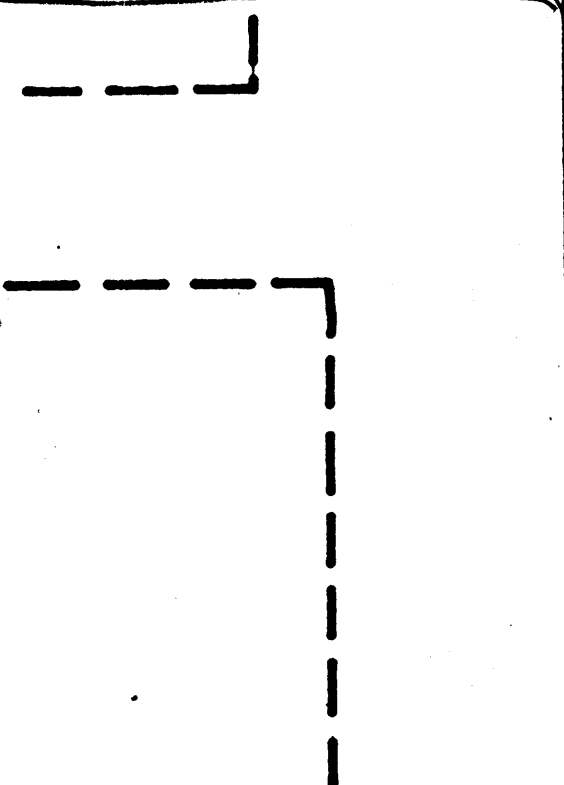
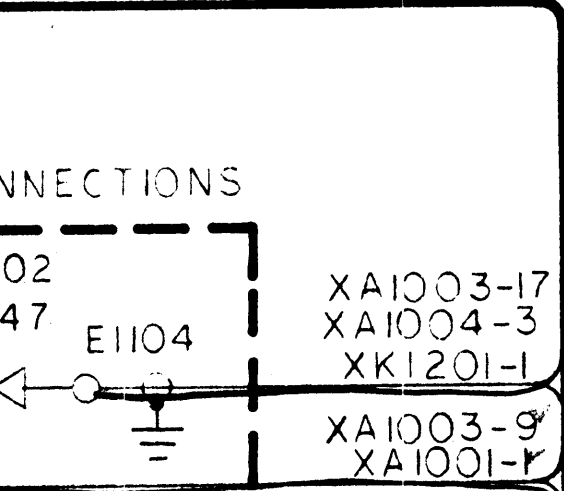
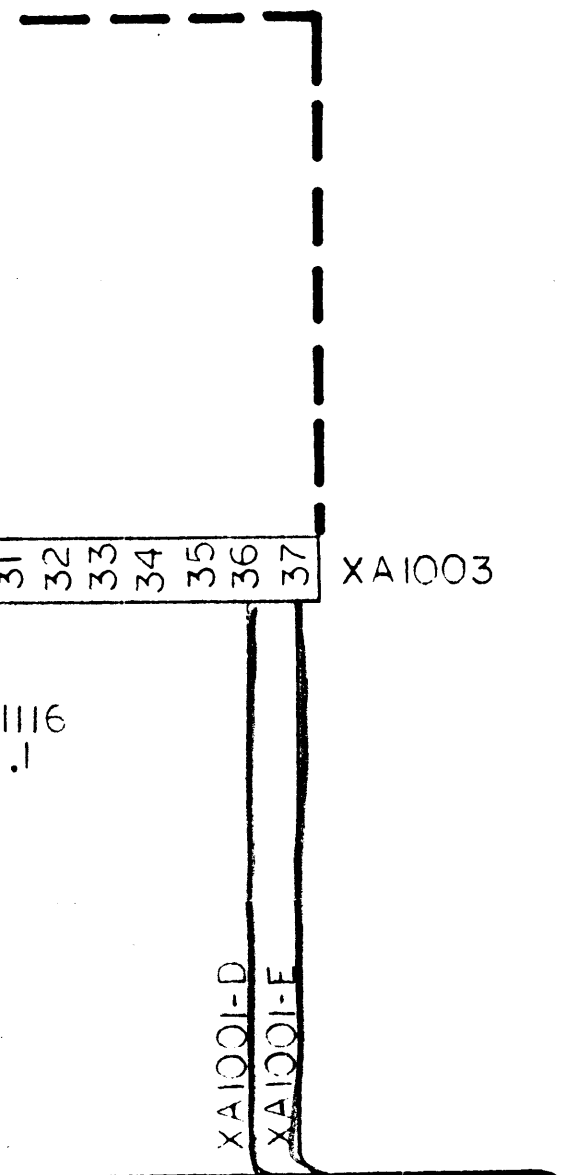


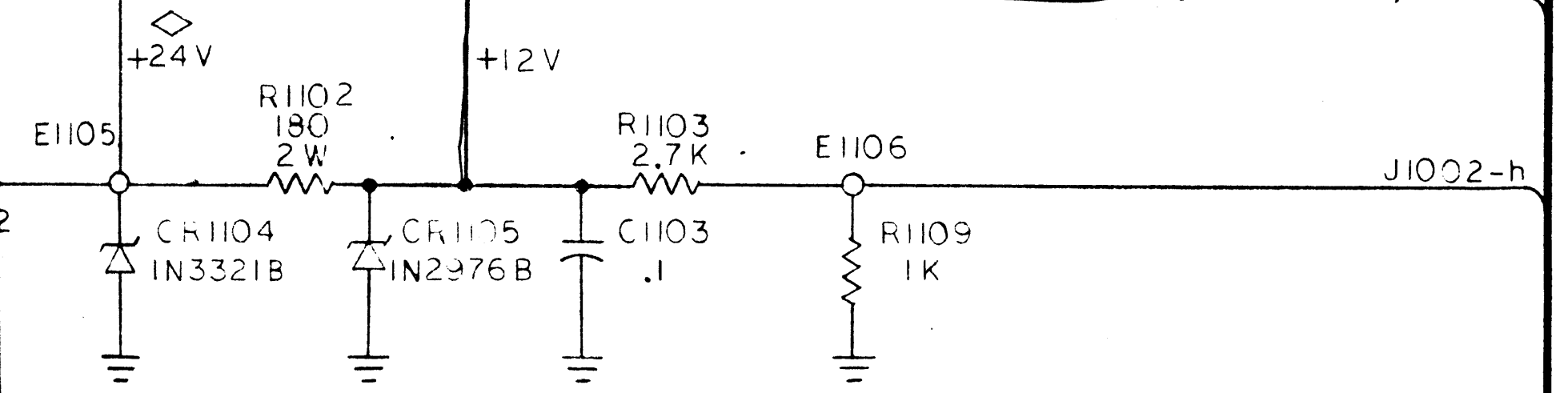
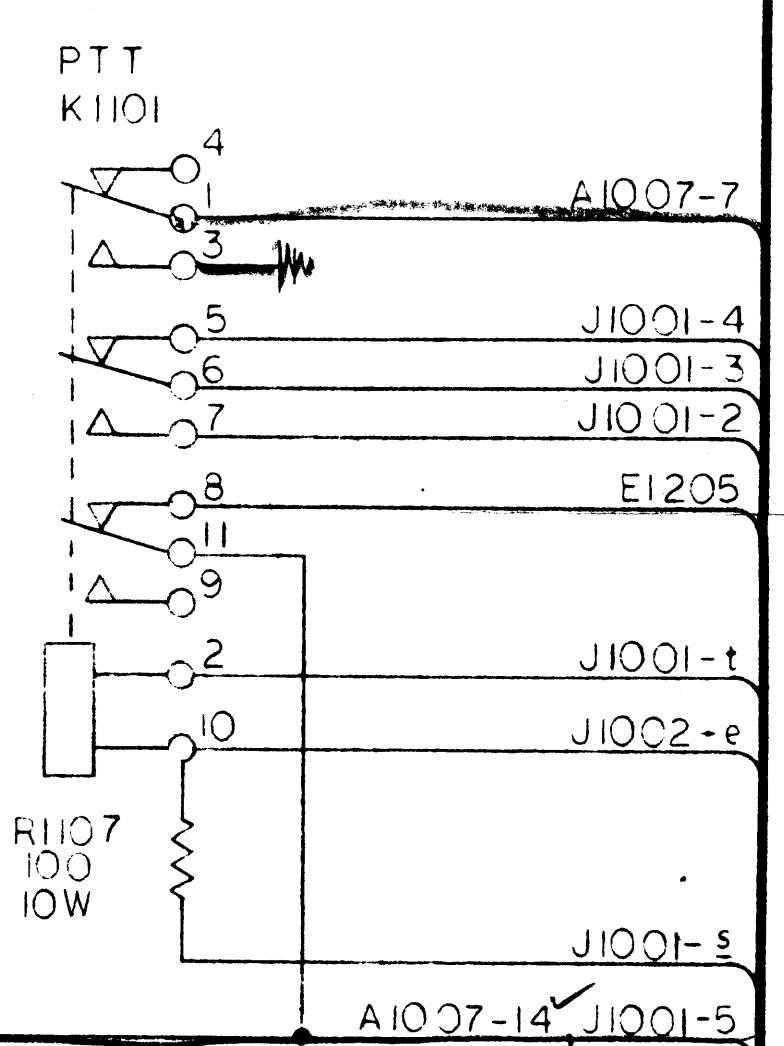
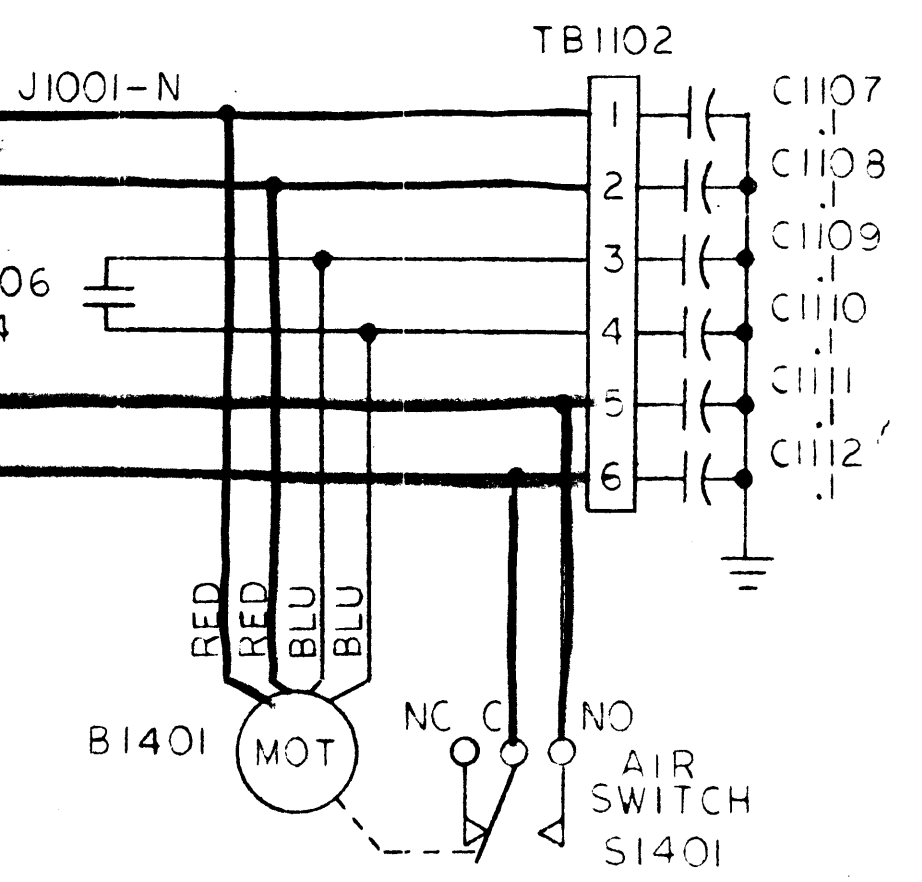
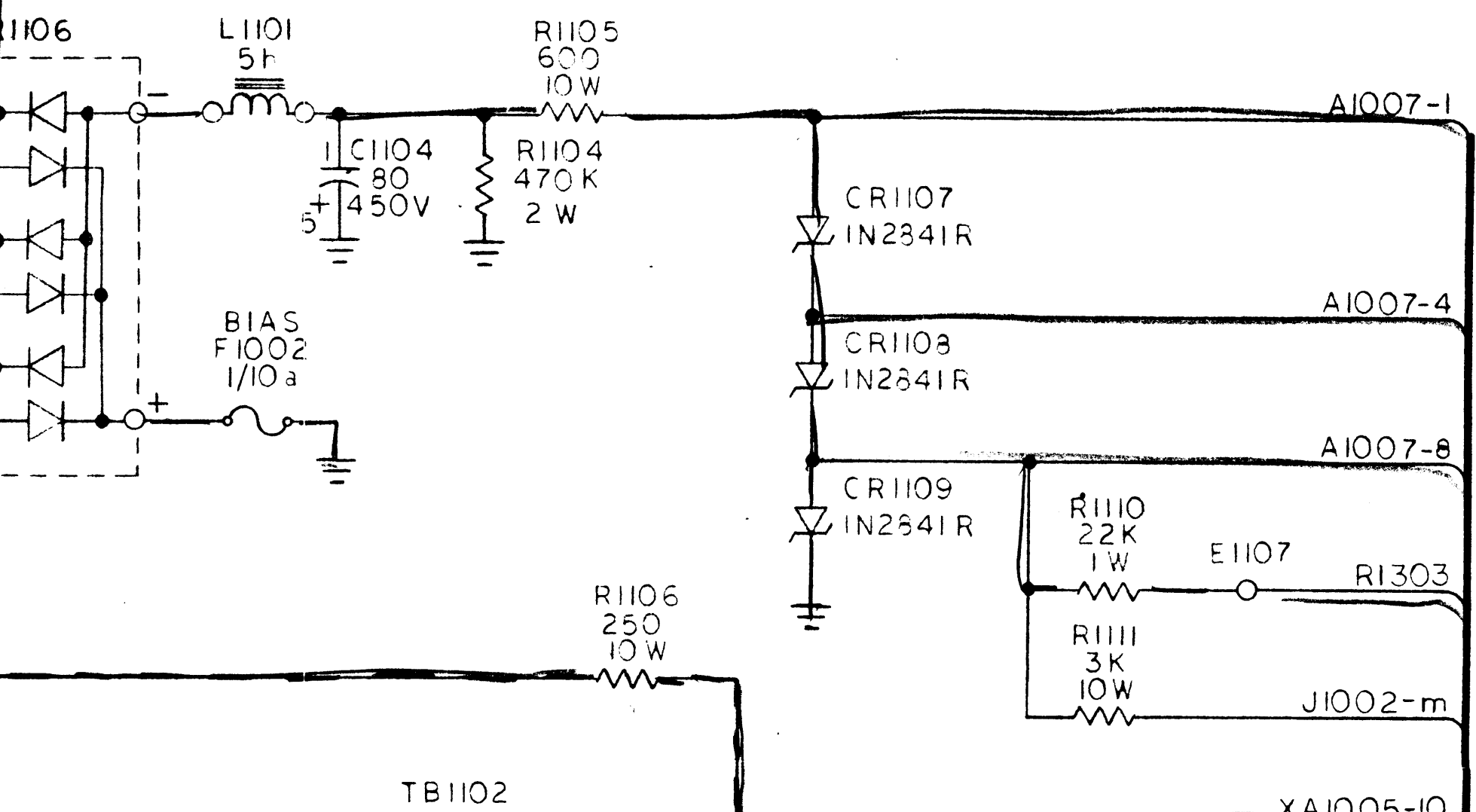
E1203
 A1002C1
 E1207

A1004 PA SERVO AMP

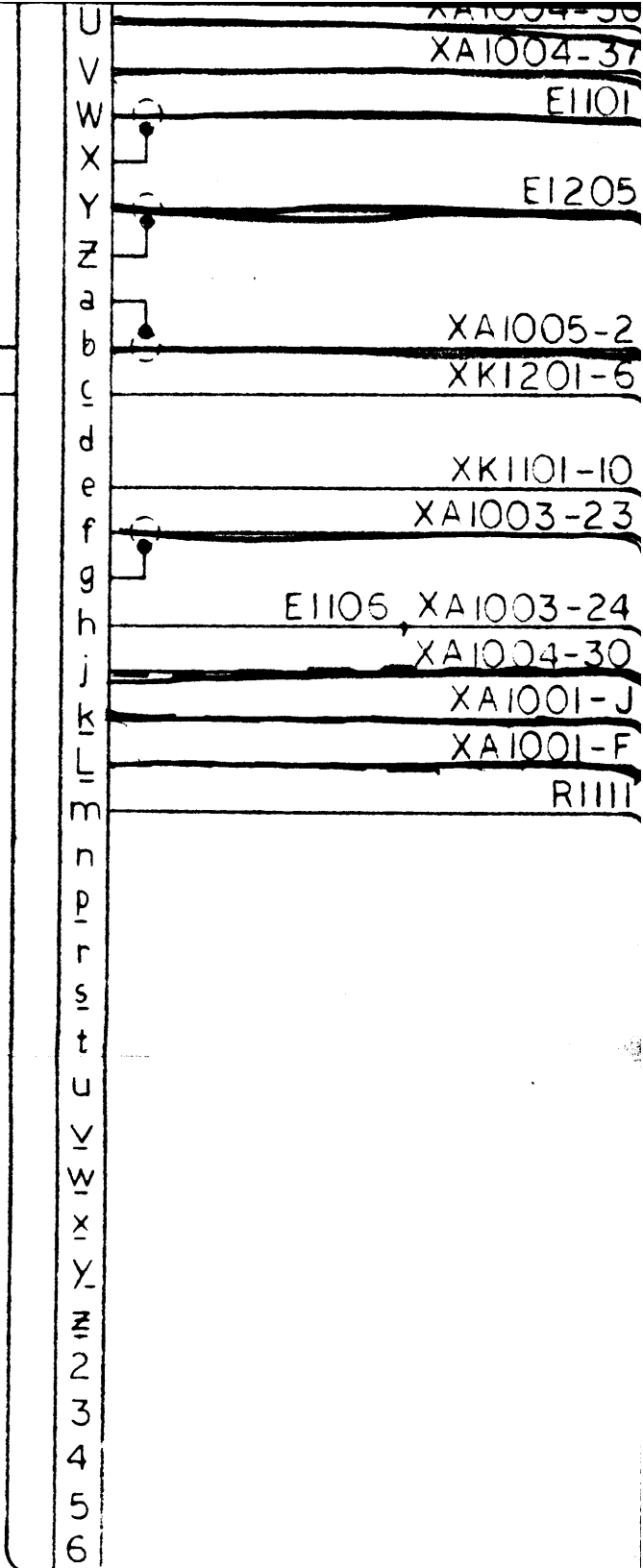
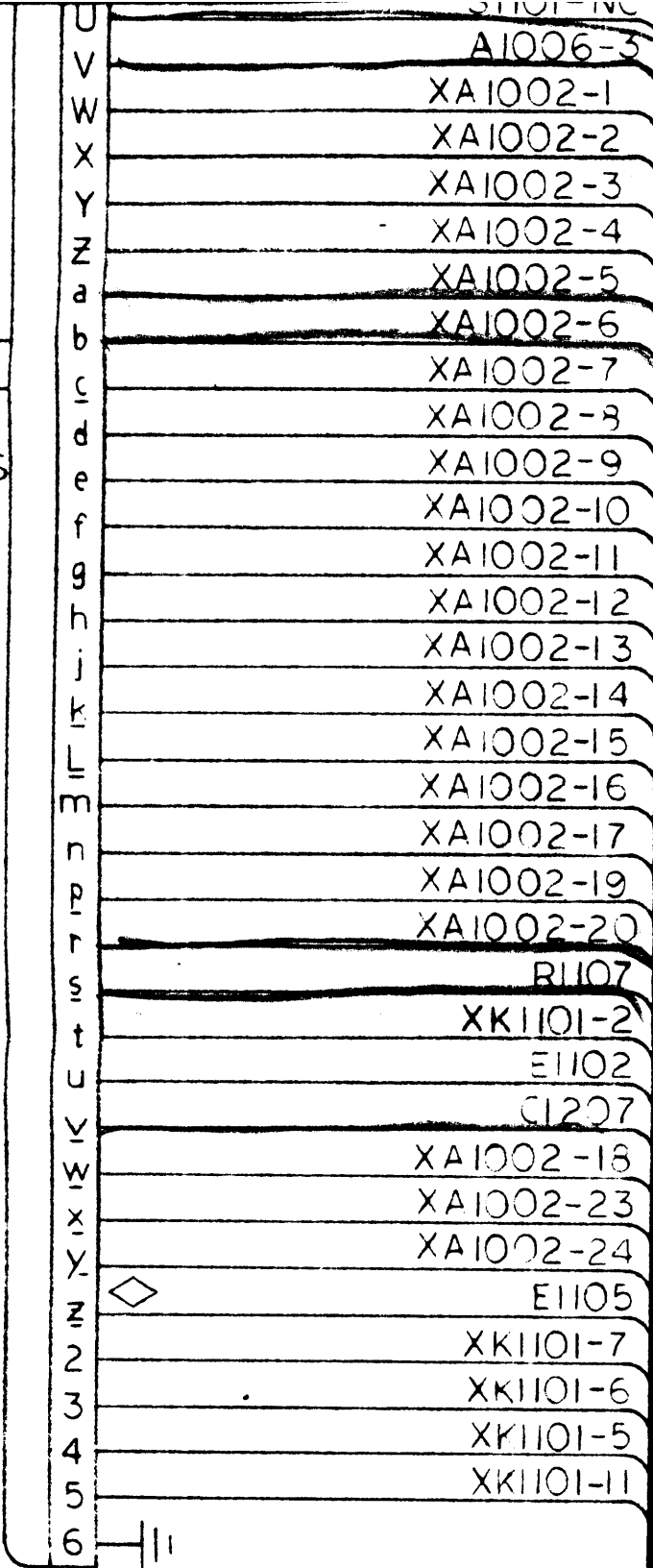
FOR AUTO-TUNE: SEE CK1754 (AZ120)
 FOR MANUAL-TUNE: A1004, C1117 NOT INSTALLED.



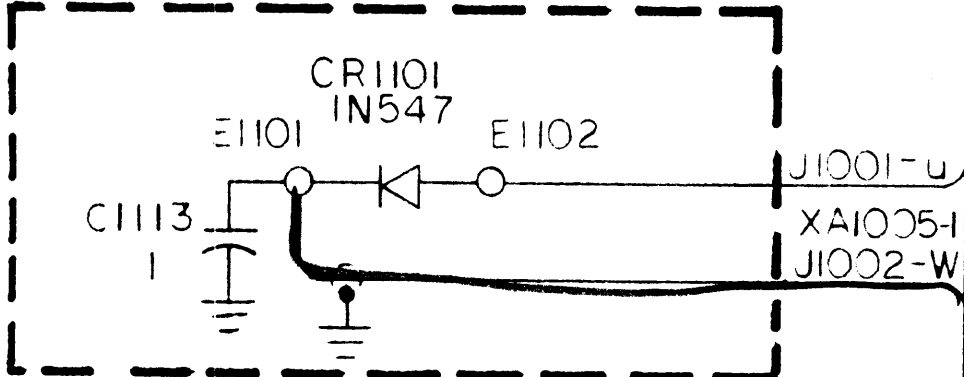




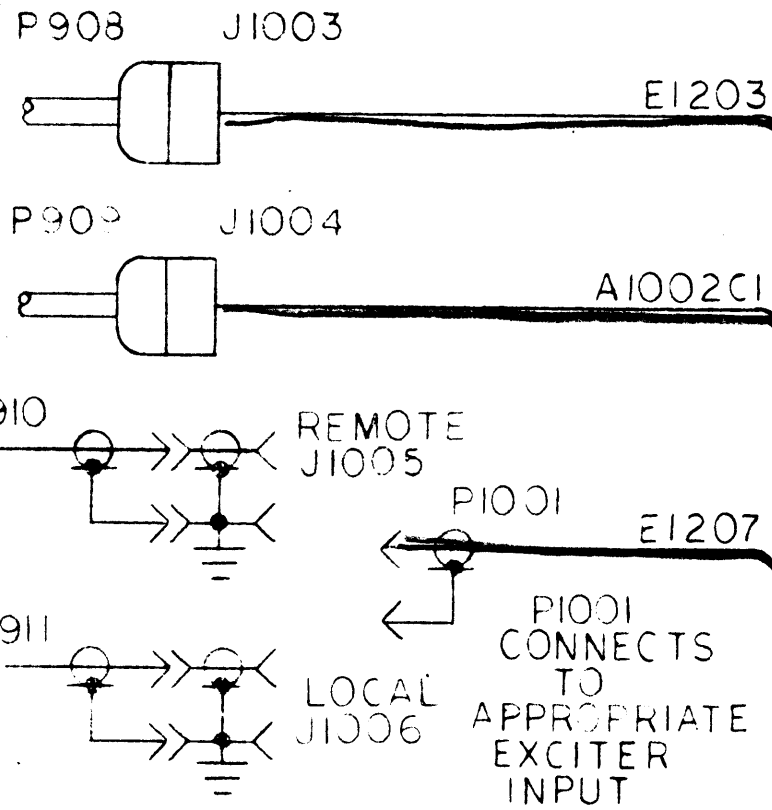
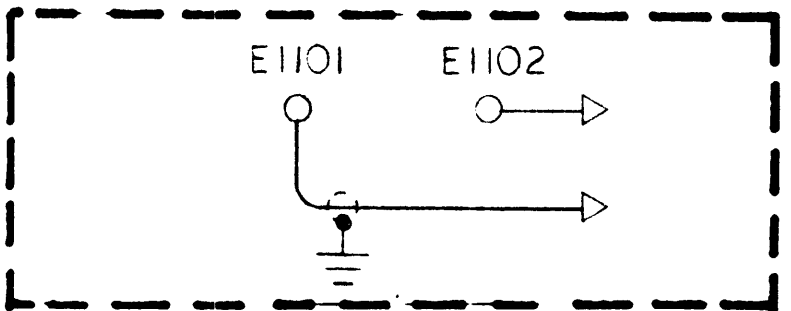
SEE
CKI946
FOR
CONNECTIONS



AUTO-TUNE CONNECTIONS



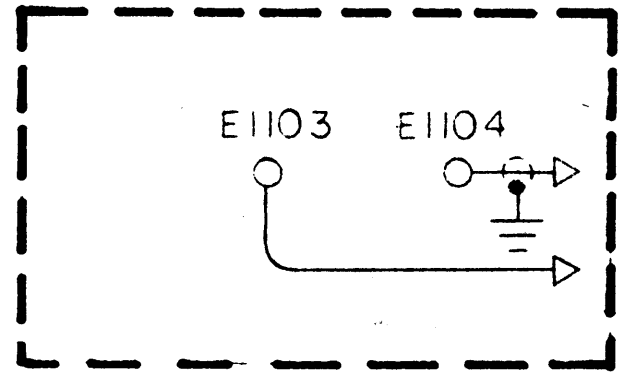
MANUAL-TUNE CONNECTIONS



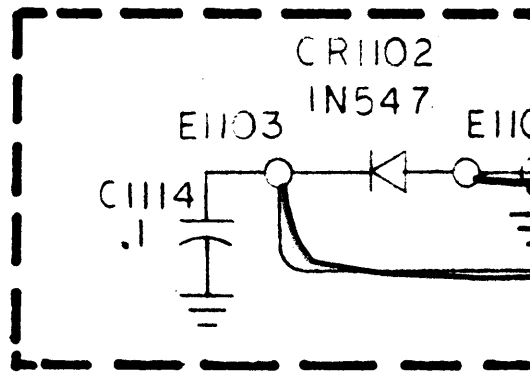
AI004-37
 EI101
 EI205
 XAI005-2
 XKI201-6
 XKI101-10
 AI003-23
 AI003-24
 AI004-30
 XAI001-J
 XAI001-F
 R1111

CI214
 AI007-15
 AI007-11
 XAI004-27
 XAI001-2
 EI103
 XAI001-5
 XAI004-31
 XAI001-H
 XAI001-K
 XAI001-L
 EI104
 J1002-Q
 J1002-N
 J1002-f
 J1002-h
 AI007-13
 J1002-T

MANUAL-TUNE CONNECTIONS

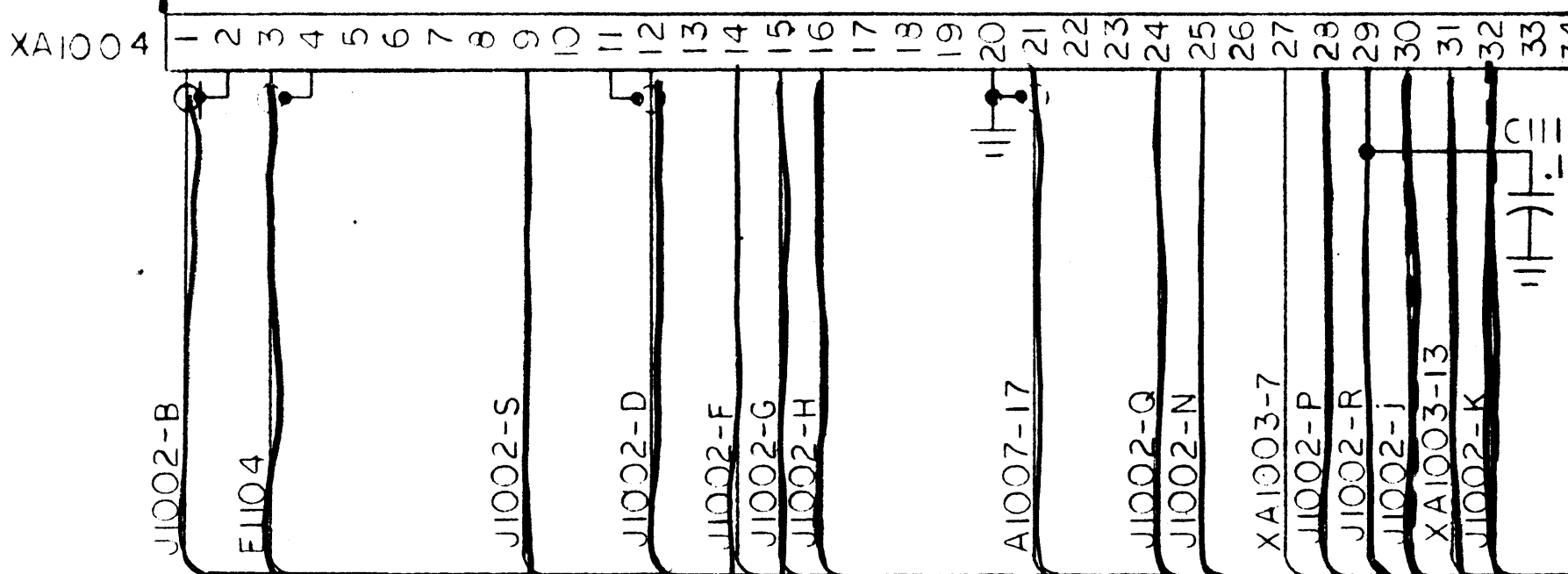


AUTO-TUNE CONNECTIONS

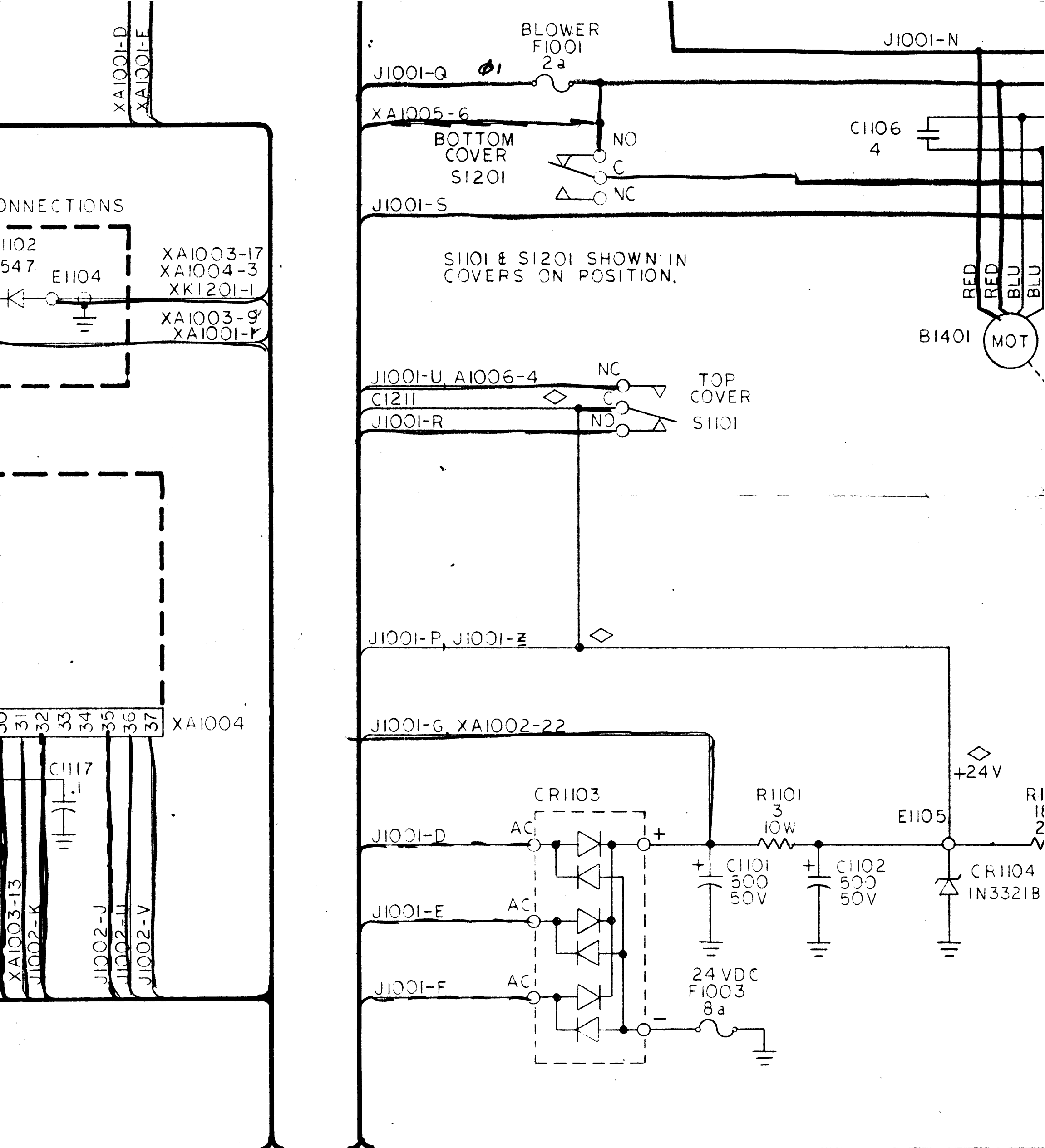


A1004 PA SERVO AMP

FOR AUTO-TUNE: SEE CK1754 (AZI20)
 FOR MANUAL-TUNE: A1004, C1117 NOT INSTALLED.

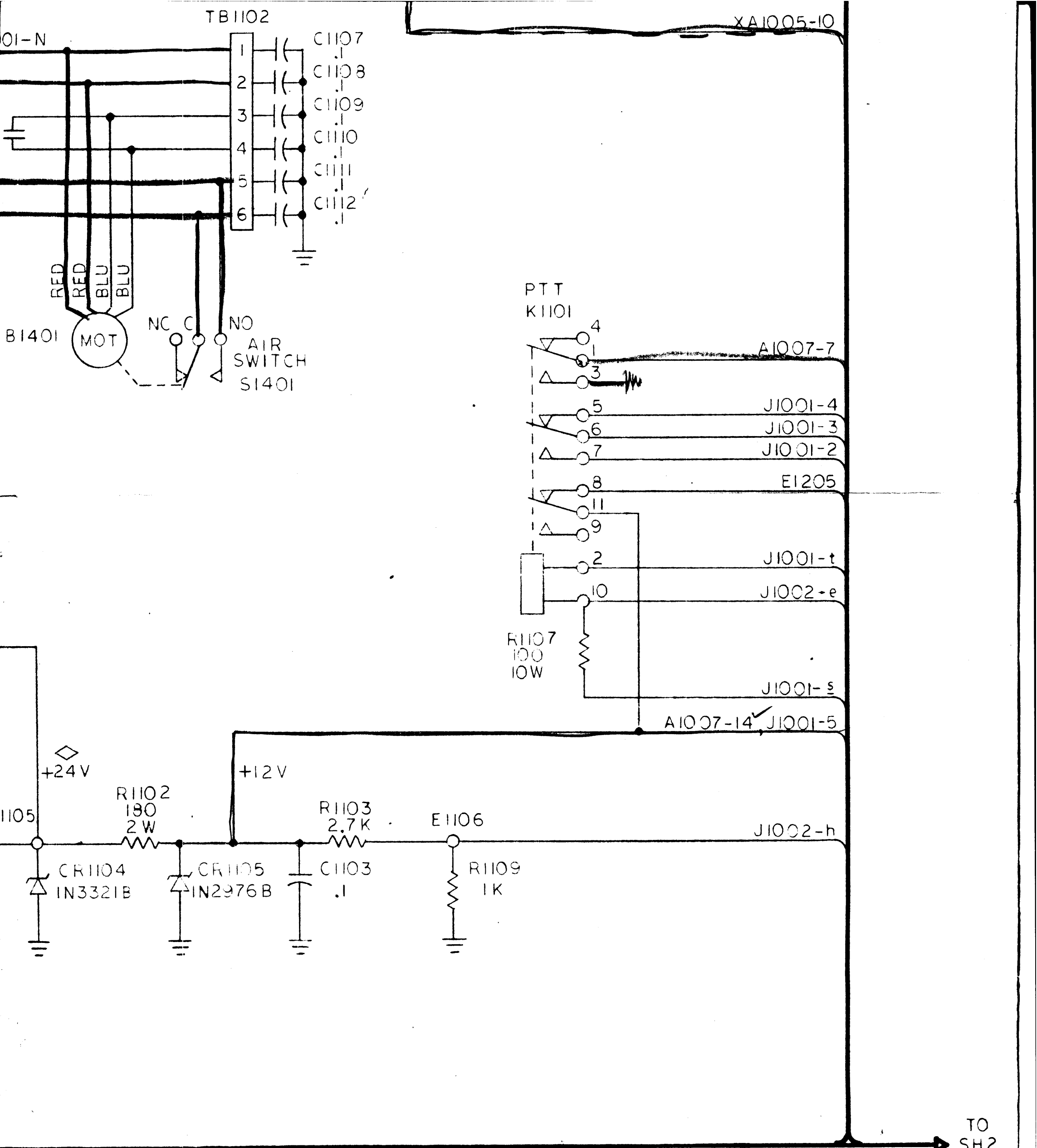


EI203
 A1002C1
 EI207
 I001
 NNECTS
 TO
 APPROPRIATE
 FILTER
 INPUT



REVISIONS							
ZONE	LTR	DESCRIPTION	DATE	E.M.N.NO	DRAFT	CHKD	APPD
	Ø		9-16-73		EJ		
	A		10/21/73	21004	GE	EJ	EJ
	B	REVISE S1201 & S1101	2 FEB 73	21005	LSH	LSH	LSH

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TO SH2

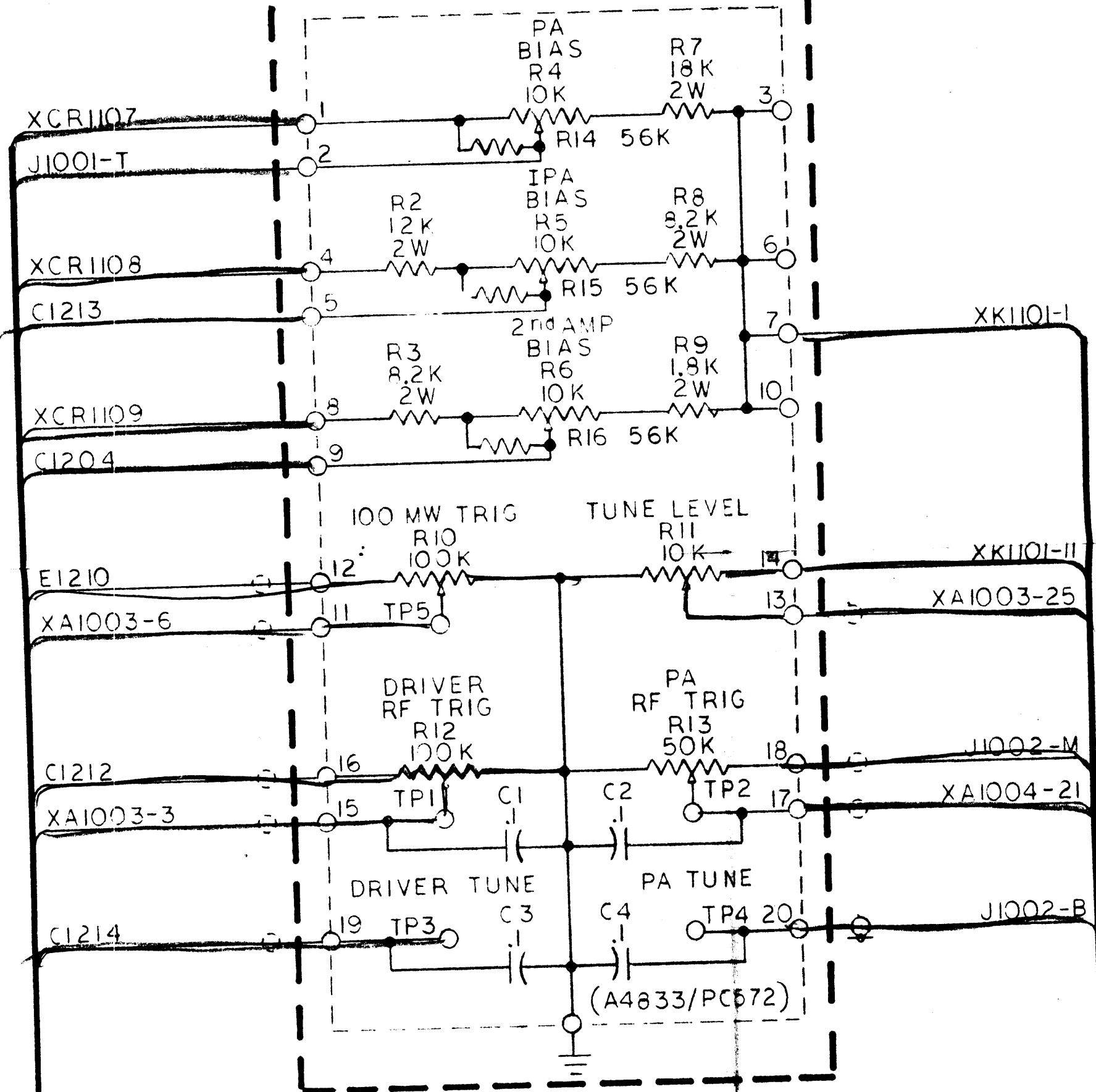
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FINAL APPROVAL	<i>[Signature]</i>	DATE	15 SEP 72
MECH DES		DATE	
ELECT. DFS	<i>[Signature]</i>	DATE	15 SEP 72
CHECKED		DATE	
DRAWN	<i>[Signature]</i>	DATE	14 SEP 72

Figure 7-2. Schematic Diagram, HFL()-10K IPA Drawer (Sheet 1 of 4)

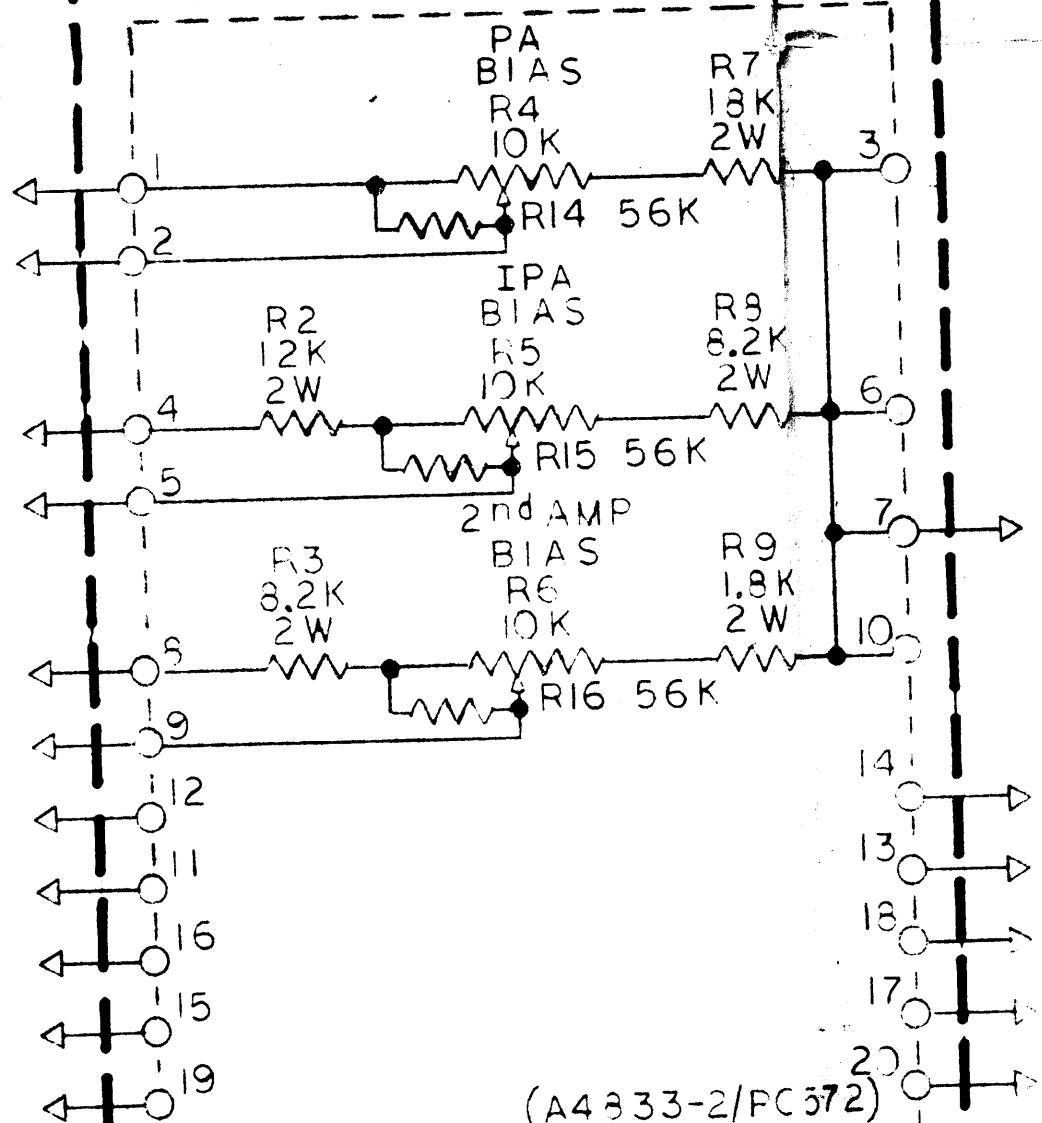
AUTO-TUNE CONNECTIONS

A1007 BIAS CONTROL



MANUAL-TUNE CONNECTIONS

A1007 BIAS CONTROL



AUTO-

A1005

XK1101-I

XK1101-II

XA1003-25

J1002-M

XA1004-21

J1002-B

XA1005

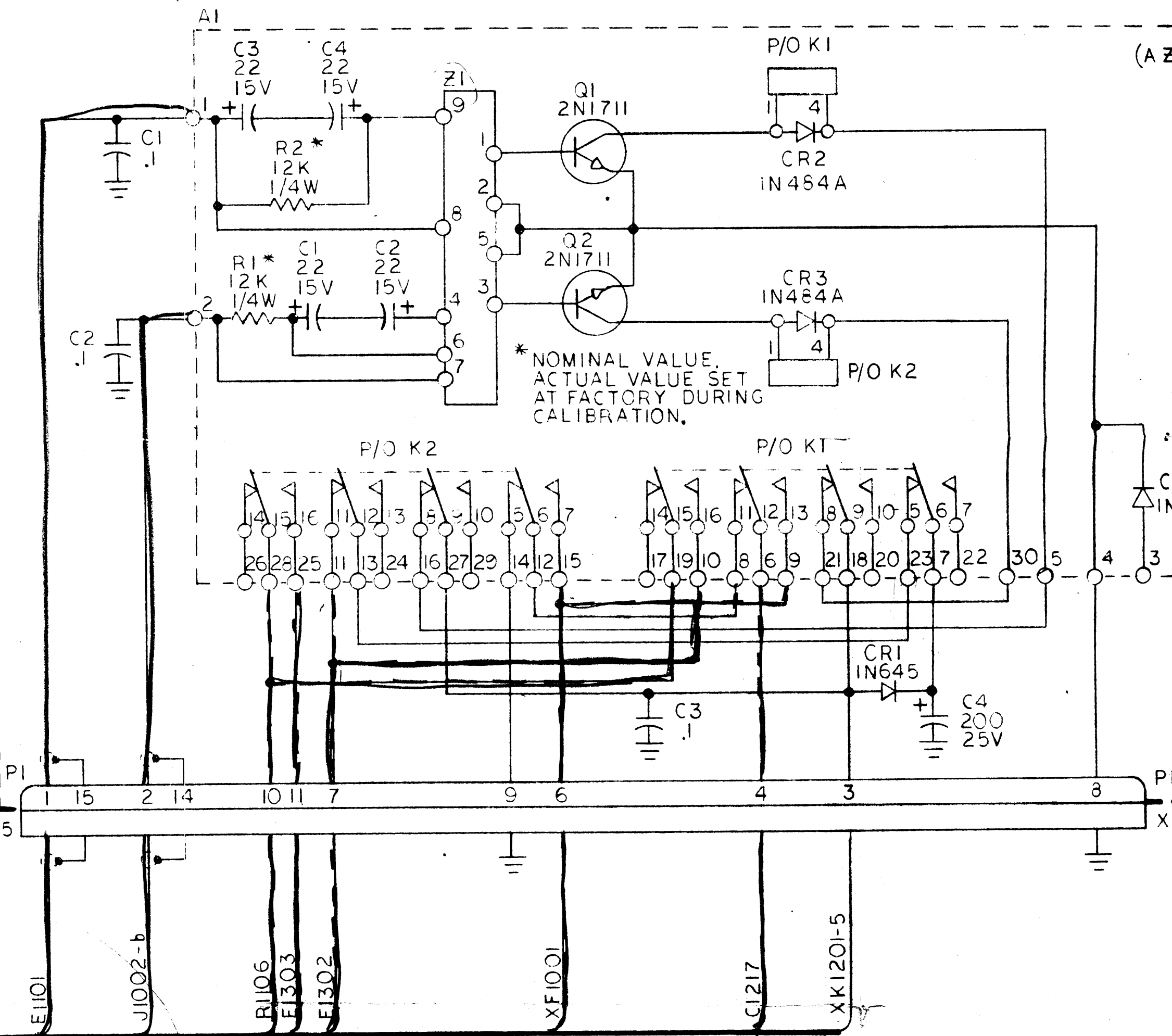
E101

MAN

XA1005

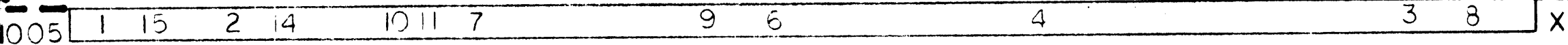
AUTO-TUNE CONNECTIONS

A1005 DRIVE UP CONTROL



MANUAL-TUNE CONNECTIONS

NO CONNECTIONS



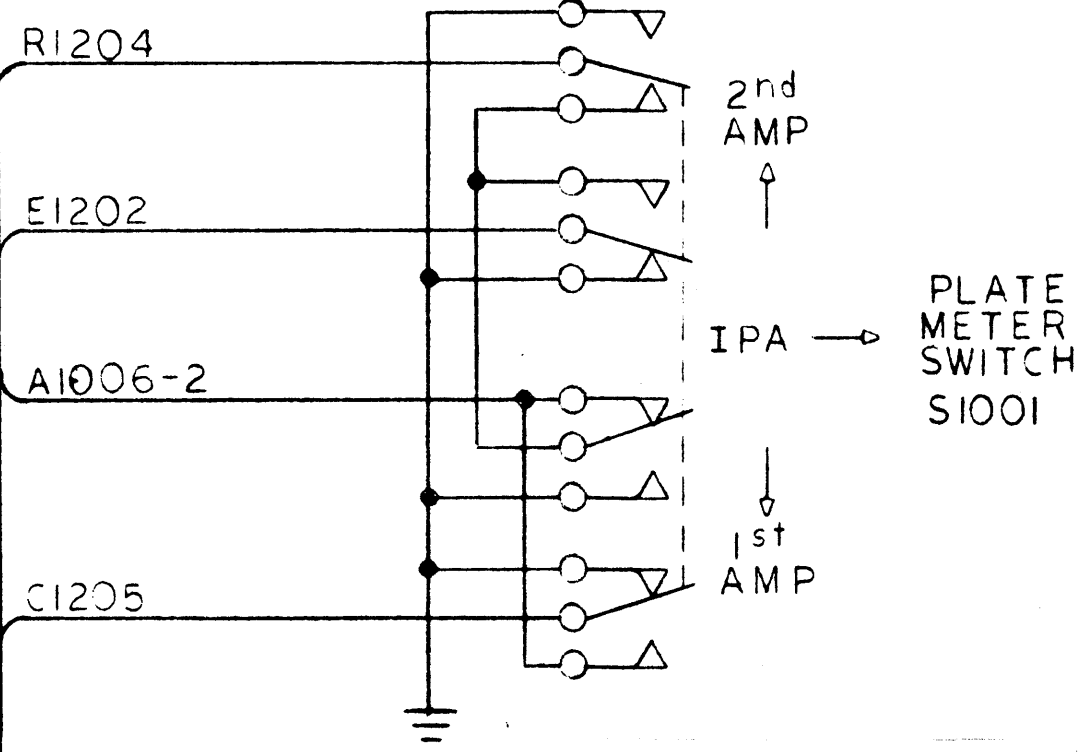
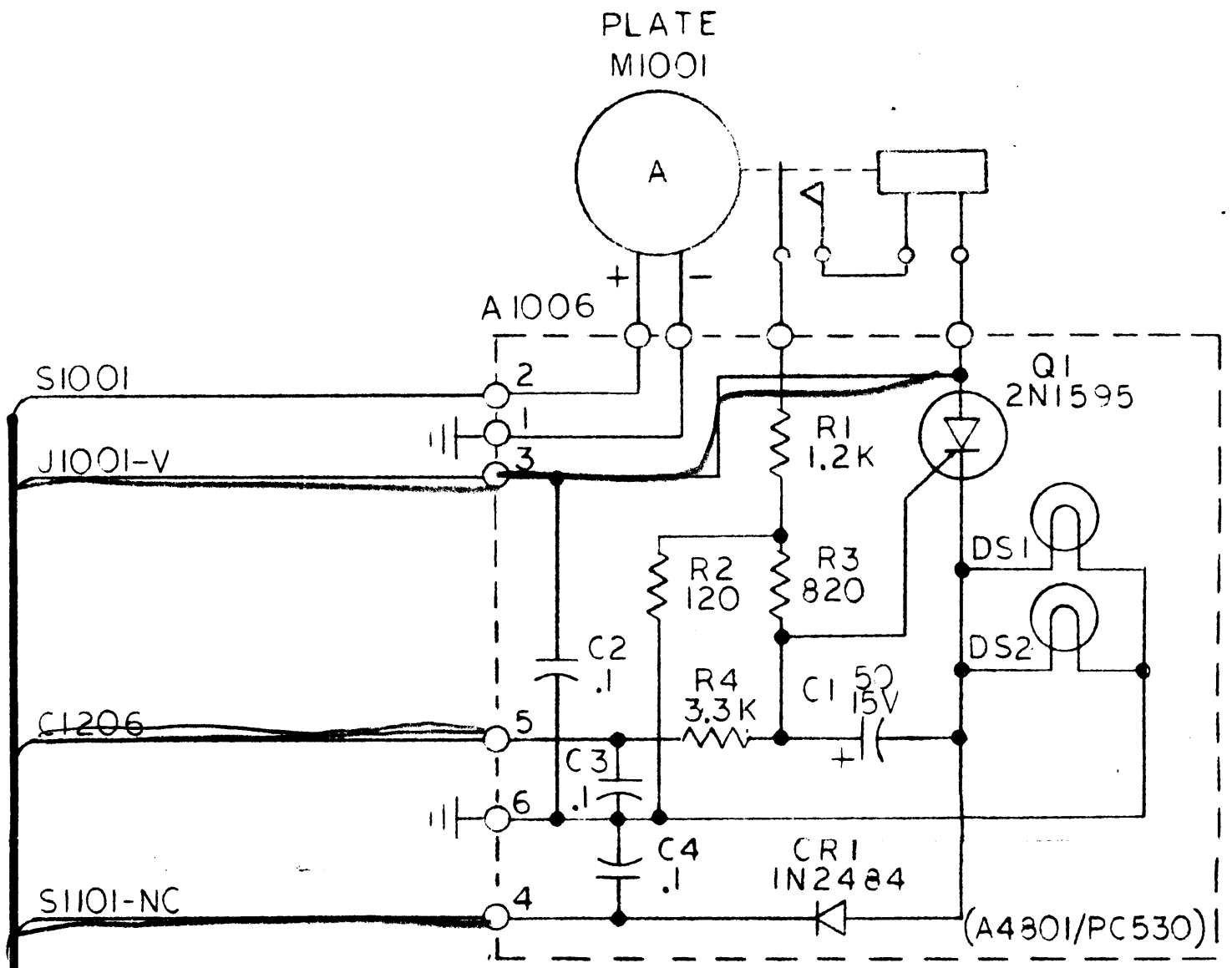
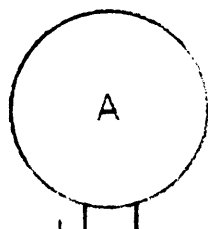
(AZ117)

CR1
1N645

PI
XA1005

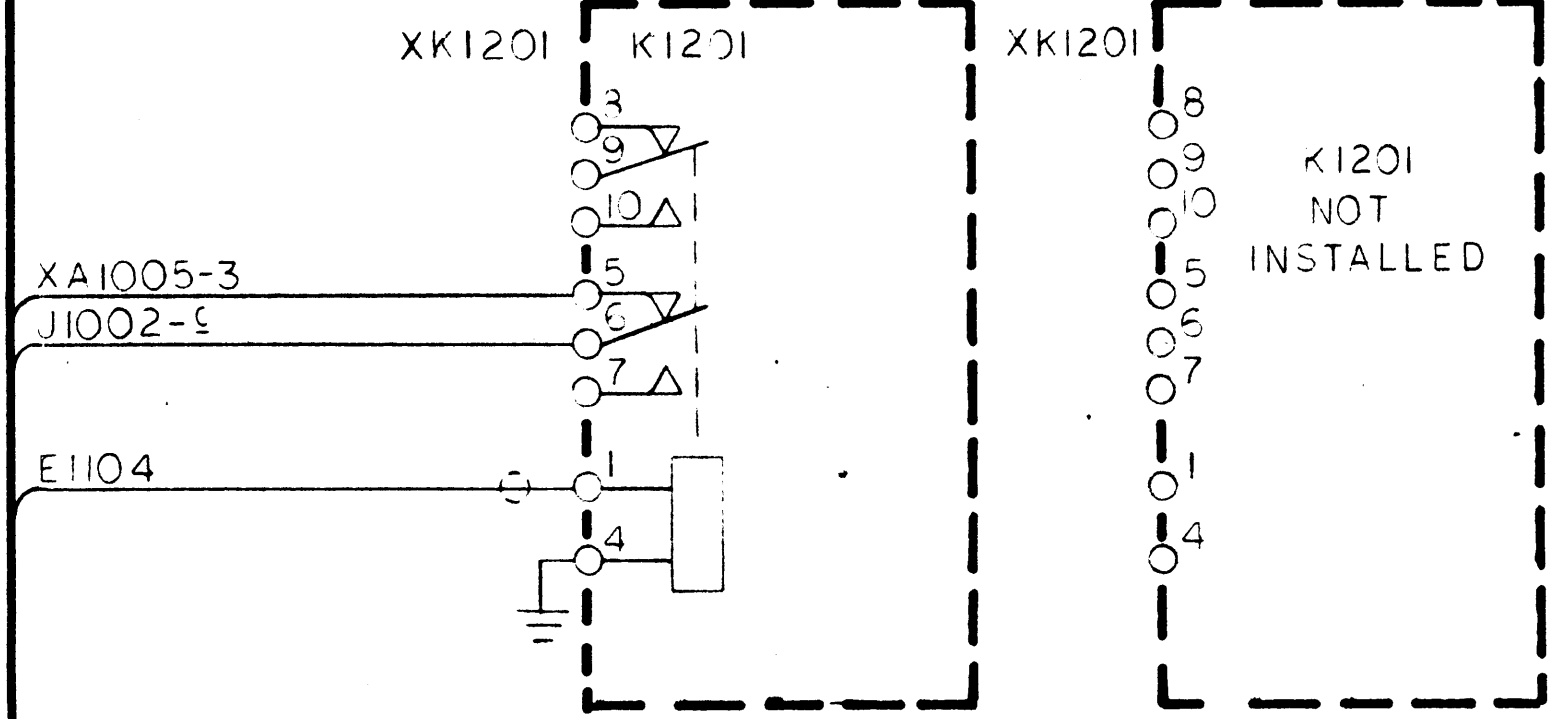
XA1005

PLATE
M1001

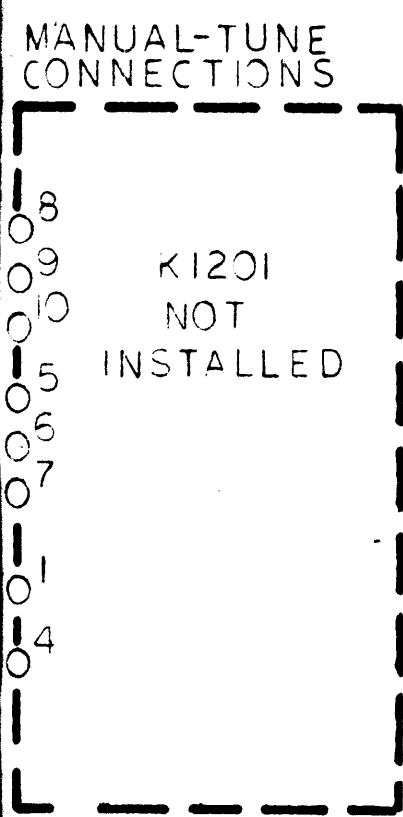
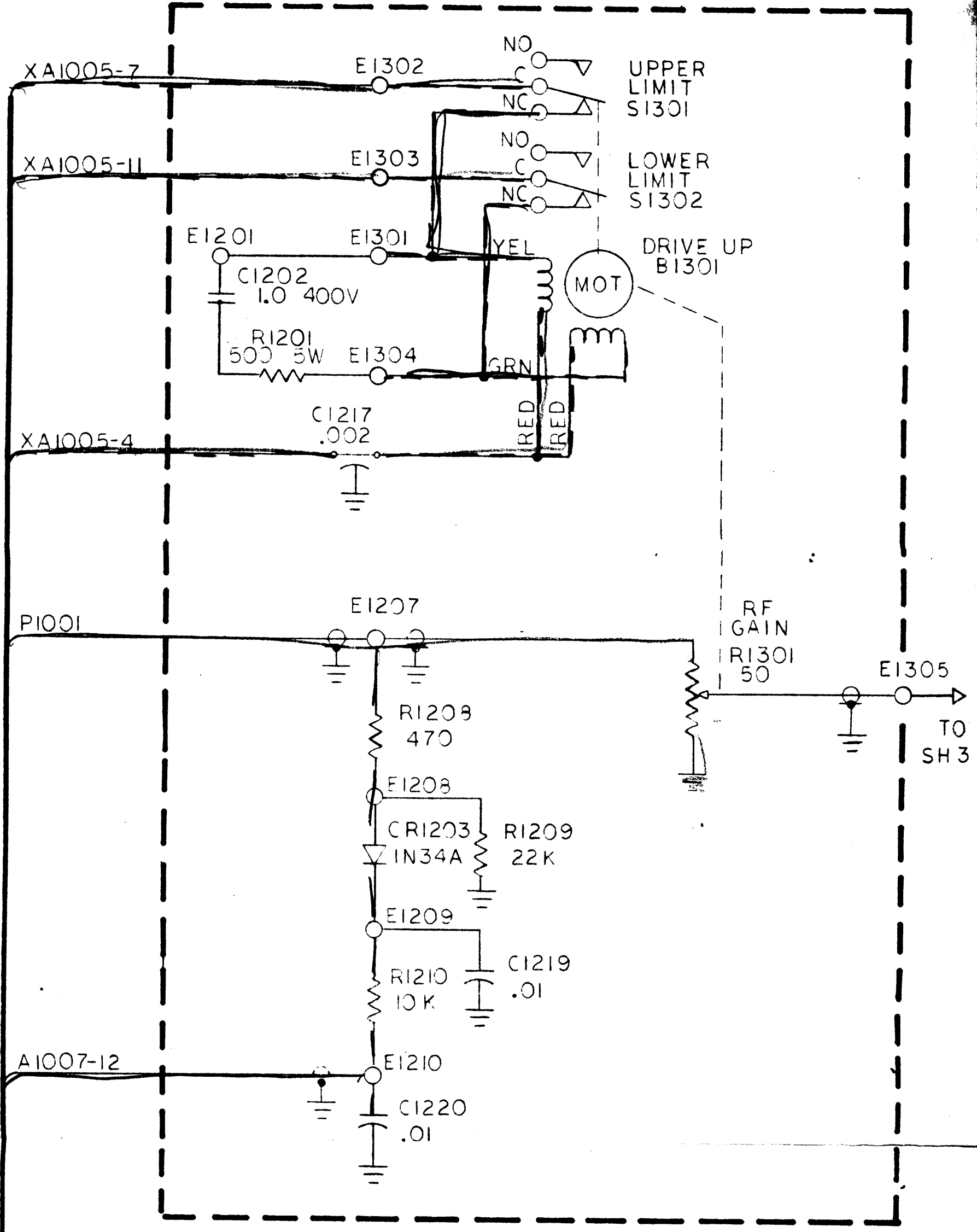
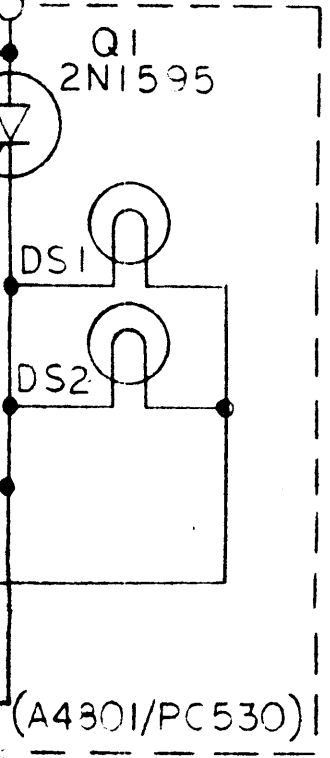


AUTO-TUNE
CONNECTIONS

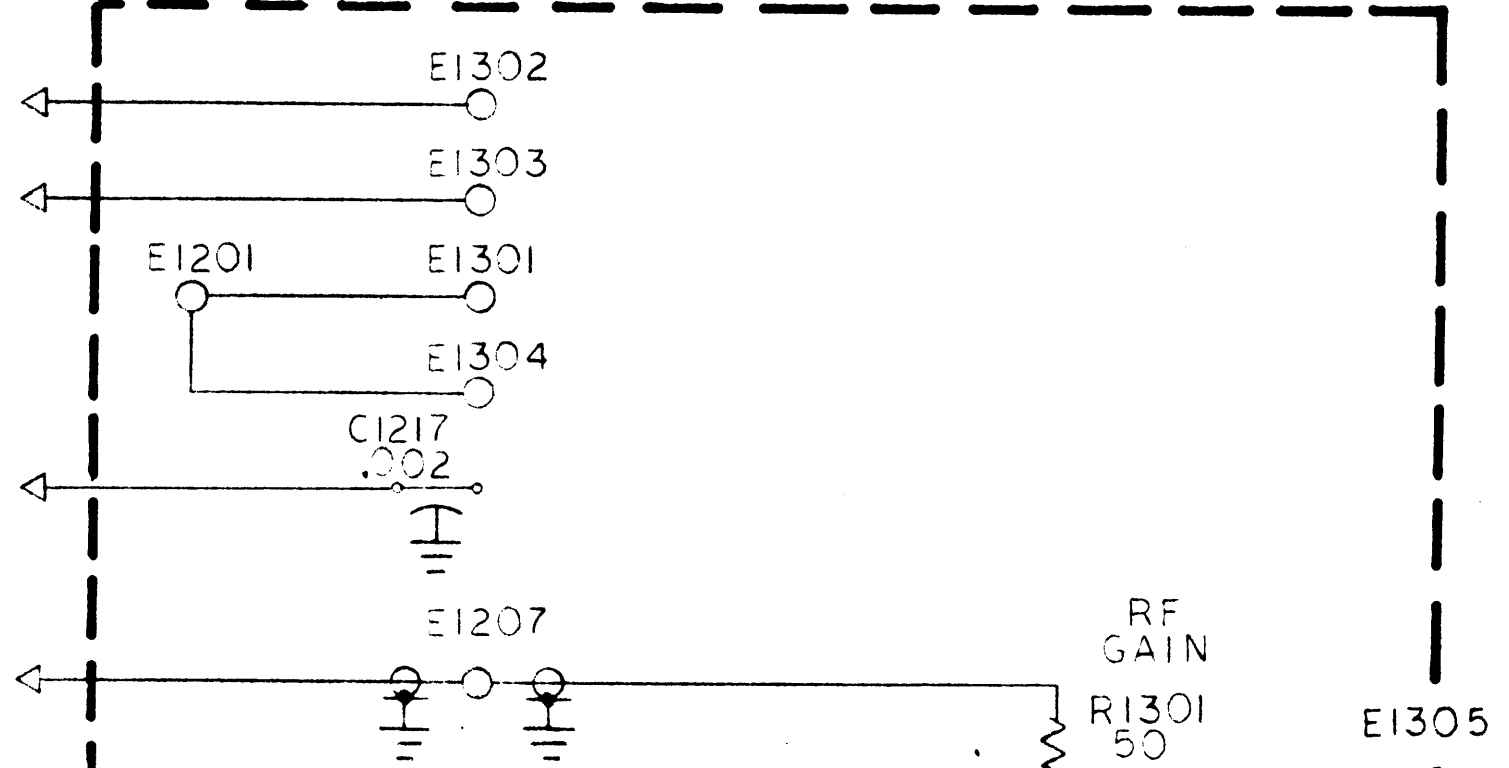
MANUAL-TUNE
CONNECTIONS

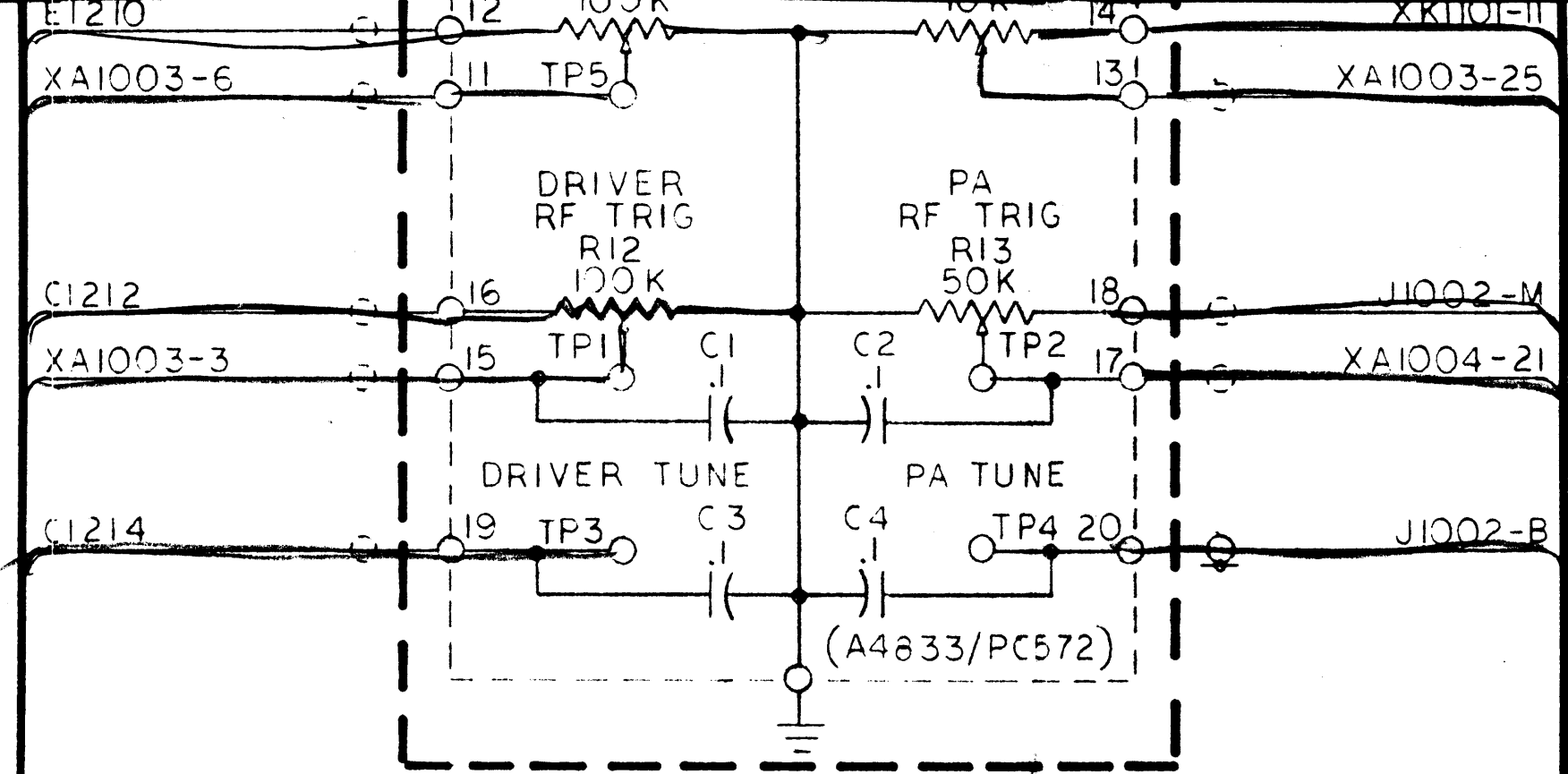


AUTO-TUNE CONNECTIONS



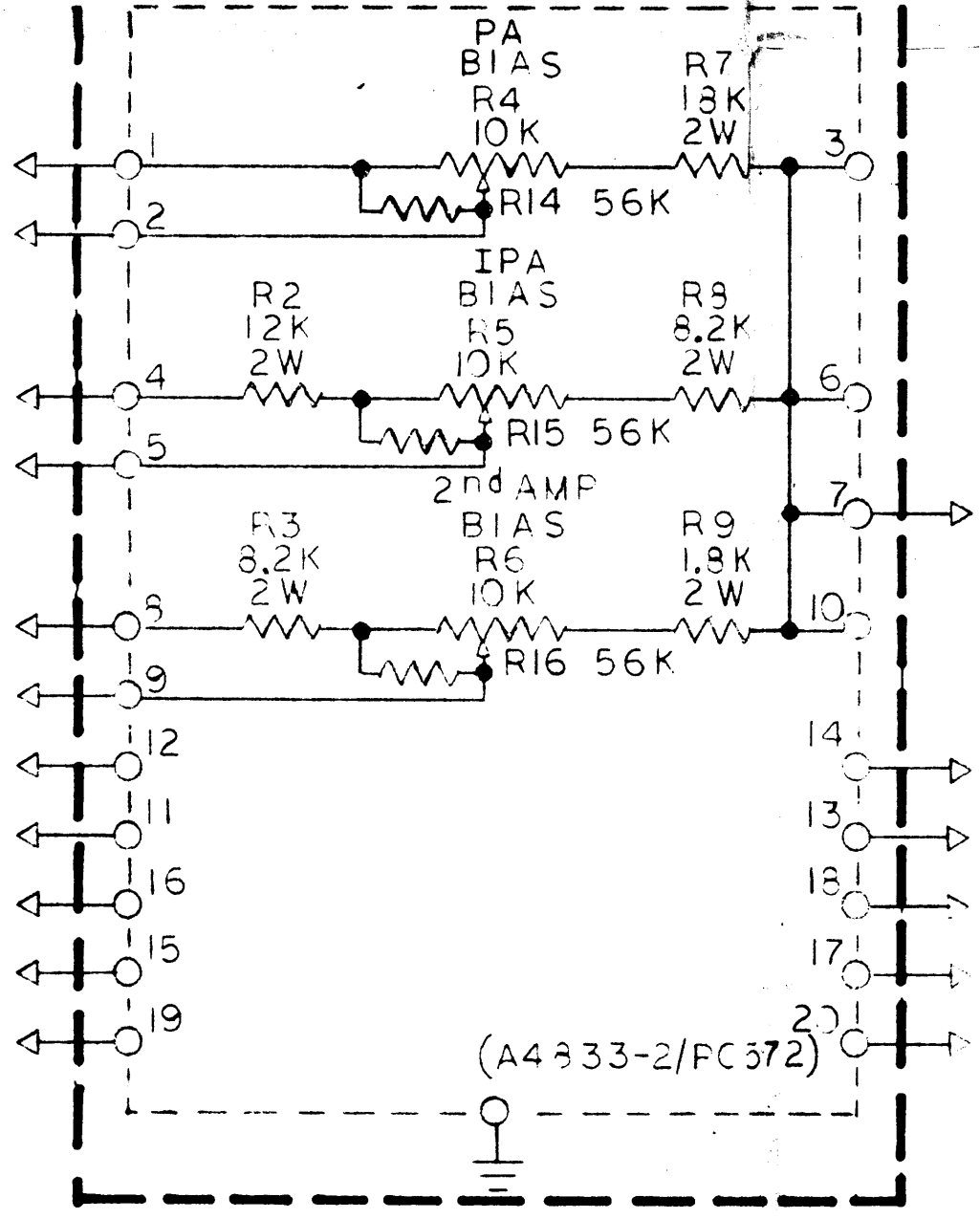
MANUAL-TUNE CONNECTIONS





MANUAL-TUNE CONNECTIONS

A1007 BIAS CONTROL



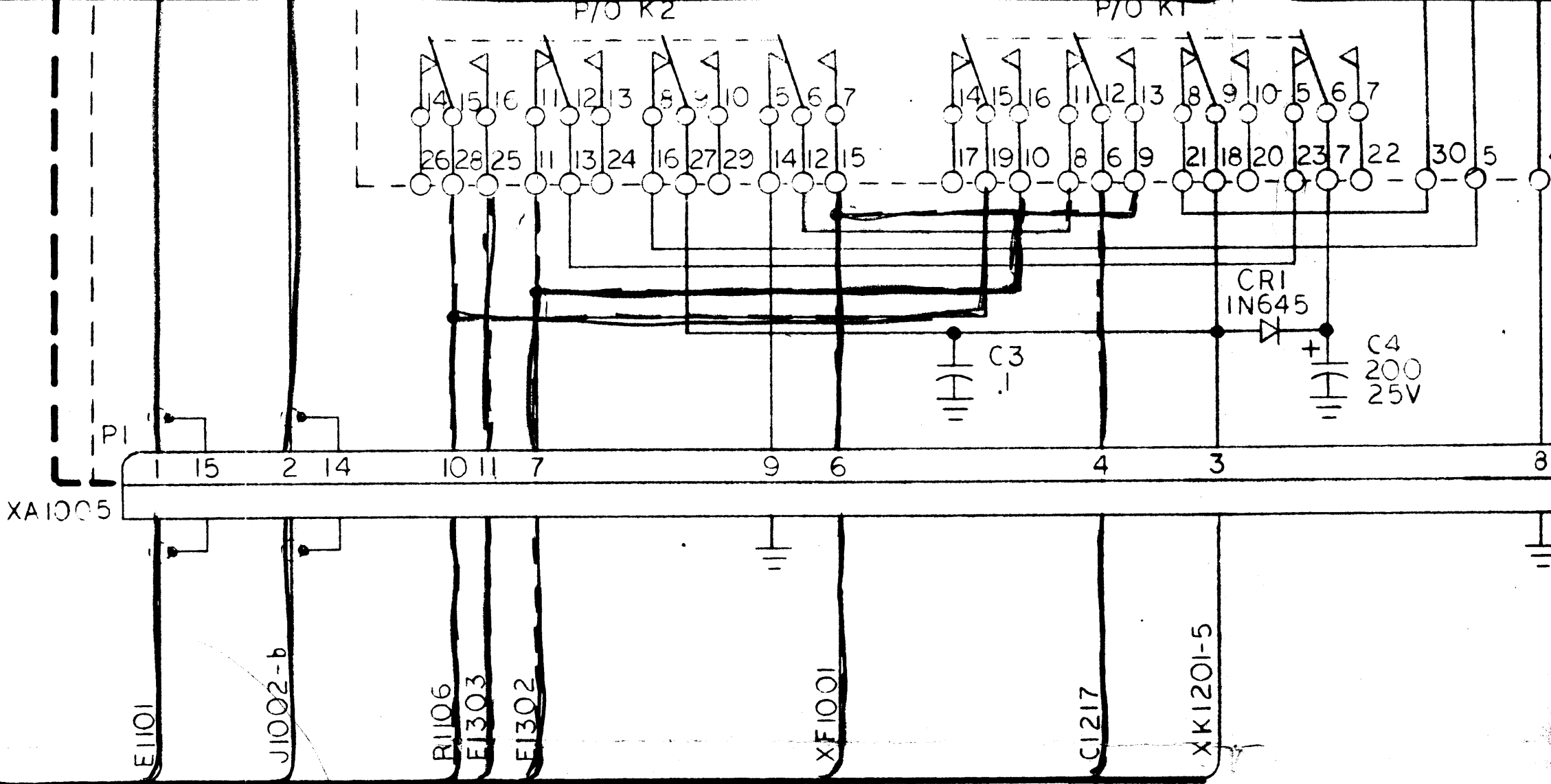
TO SH 1

1000		MISS SYM
LAST SYMBOLS		
A1003	XA1005	
C1001	XF1004	
E1001		
F1004		
J1007		
L1001		
M1001		
P1001		
S1001		

A1001		MISS SYM
LAST SYM		
A1		
B1		
C5		
S2		

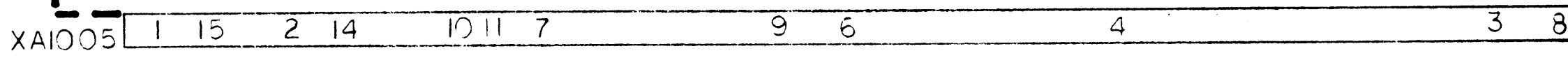
A1001A1		MISS SYM
LAST SYM		
C12		
E12		

A	LAST SYM
	C11
	CR1
	E23
	J1
	K1
	L3
	R3
	S2
	XK1



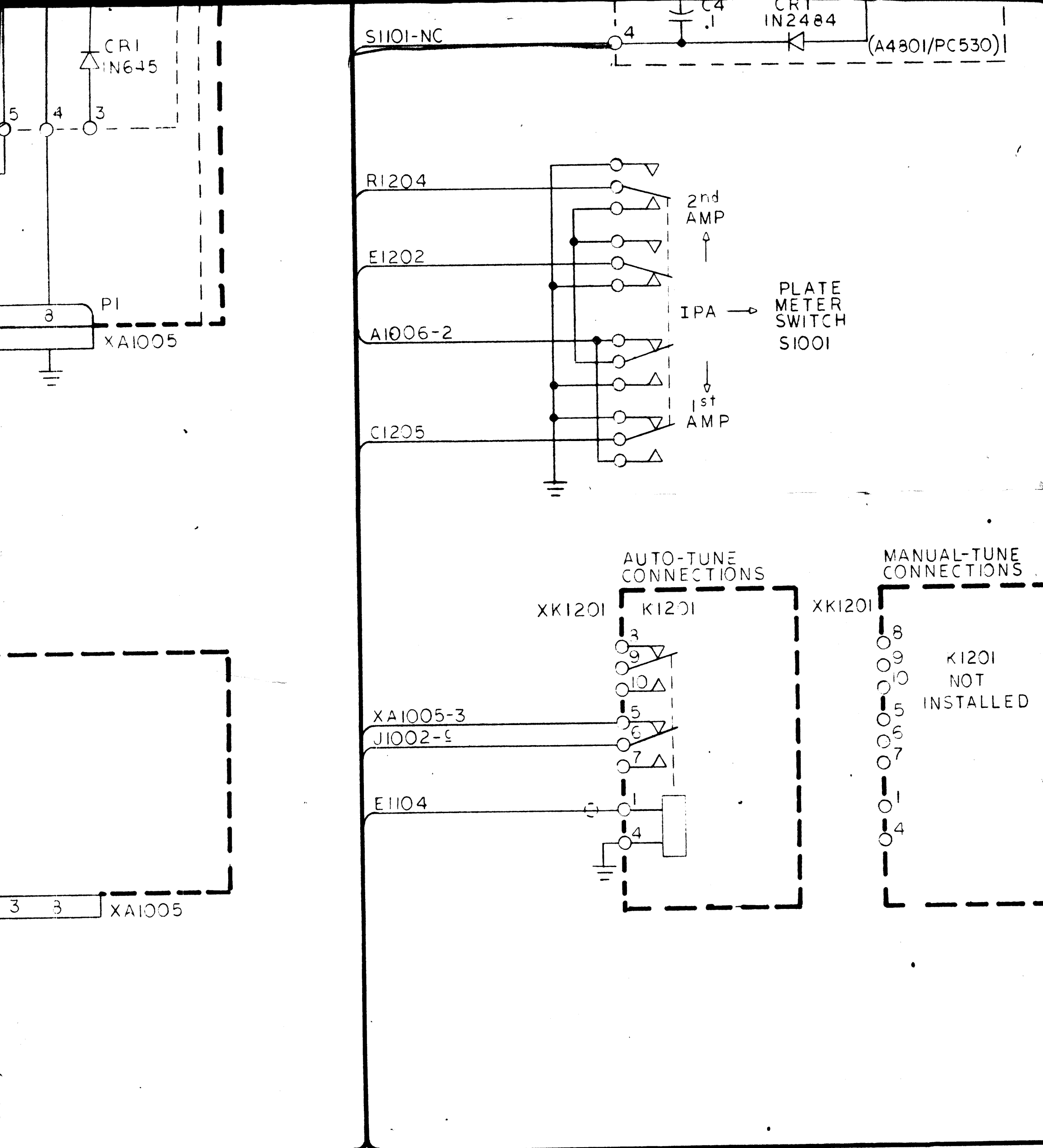
MANUAL-TUNE CONNECTIONS

NO CONNECTIONS



A1002	
LAST SYM	MISS SYM
C11	
CR1	
E23	
J1	
K1	
L3	
R3	
S2	
XK1	

FOR A1003 & A1004 SYMBOL CHARTS SEE APPROPRIATE SCHEMATICS.



REVISIONS						
ZONE	LTR	DESCRIPTION	DATE	E.M.N.NO	DRAFT	CHKD APPD
	Ø		3-16-72		Ø	
	A	EE S.T. 3	11/3/72	20041	GE	Ø Ø
	B	ADD A1007 RIA KE16; A1005 P1-3 WENT TO A1005A1-5.	2 FEB 73	21005	Ø	Ø Ø

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P1001

E1207

RF GAIN
R1301
50

E1305

TO SH 3

R1208
470

E1208

CR1203
1N34A

R1209
22K

E1209

R1210
10K

C1219
.01

A1007-12

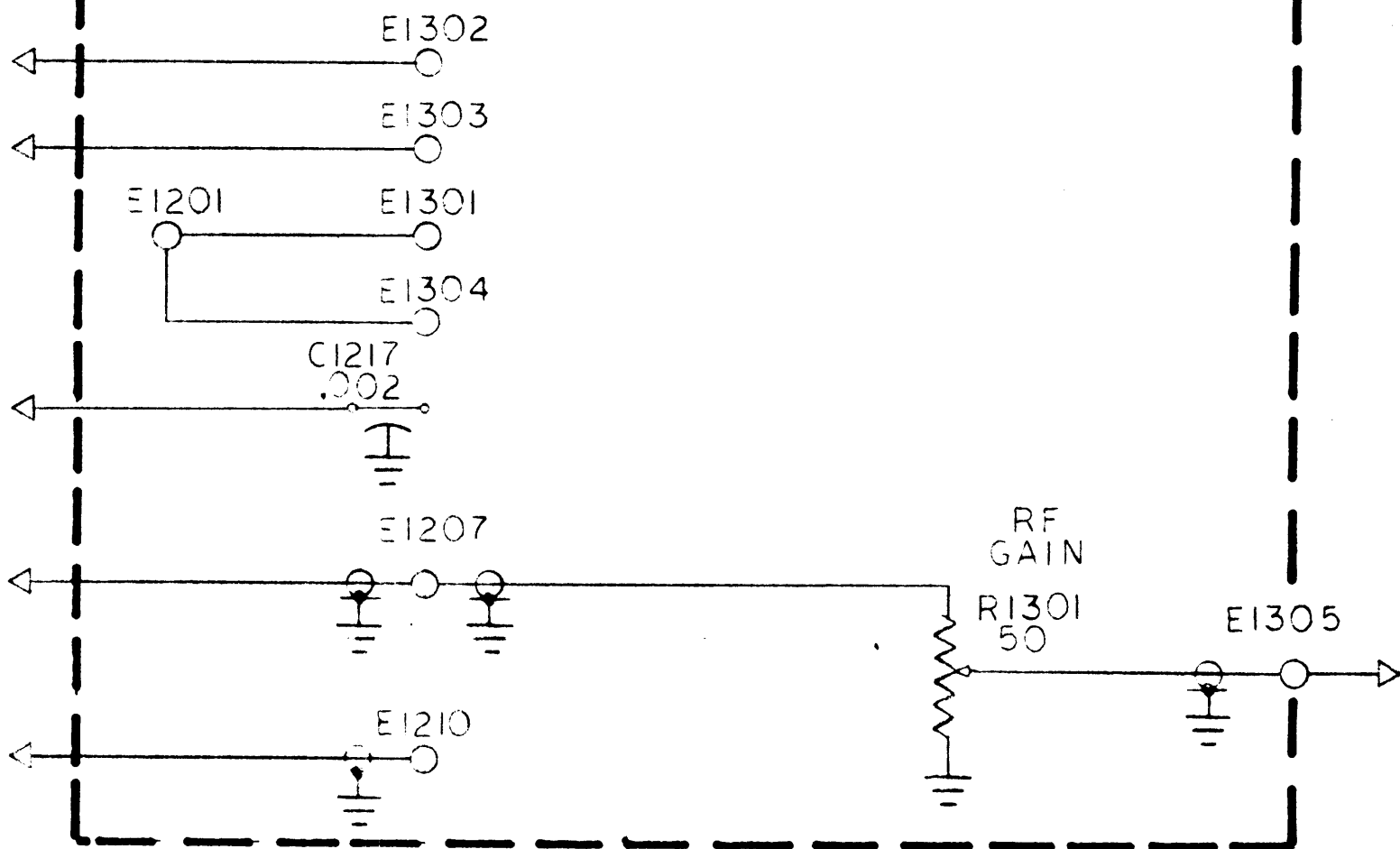
E1210

C1220
.01

MANUAL-TUNE CONNECTIONS

8
9
10
5
6
7
1
4
K1201
NOT
INSTALLED

MANUAL-TUNE CONNECTIONS



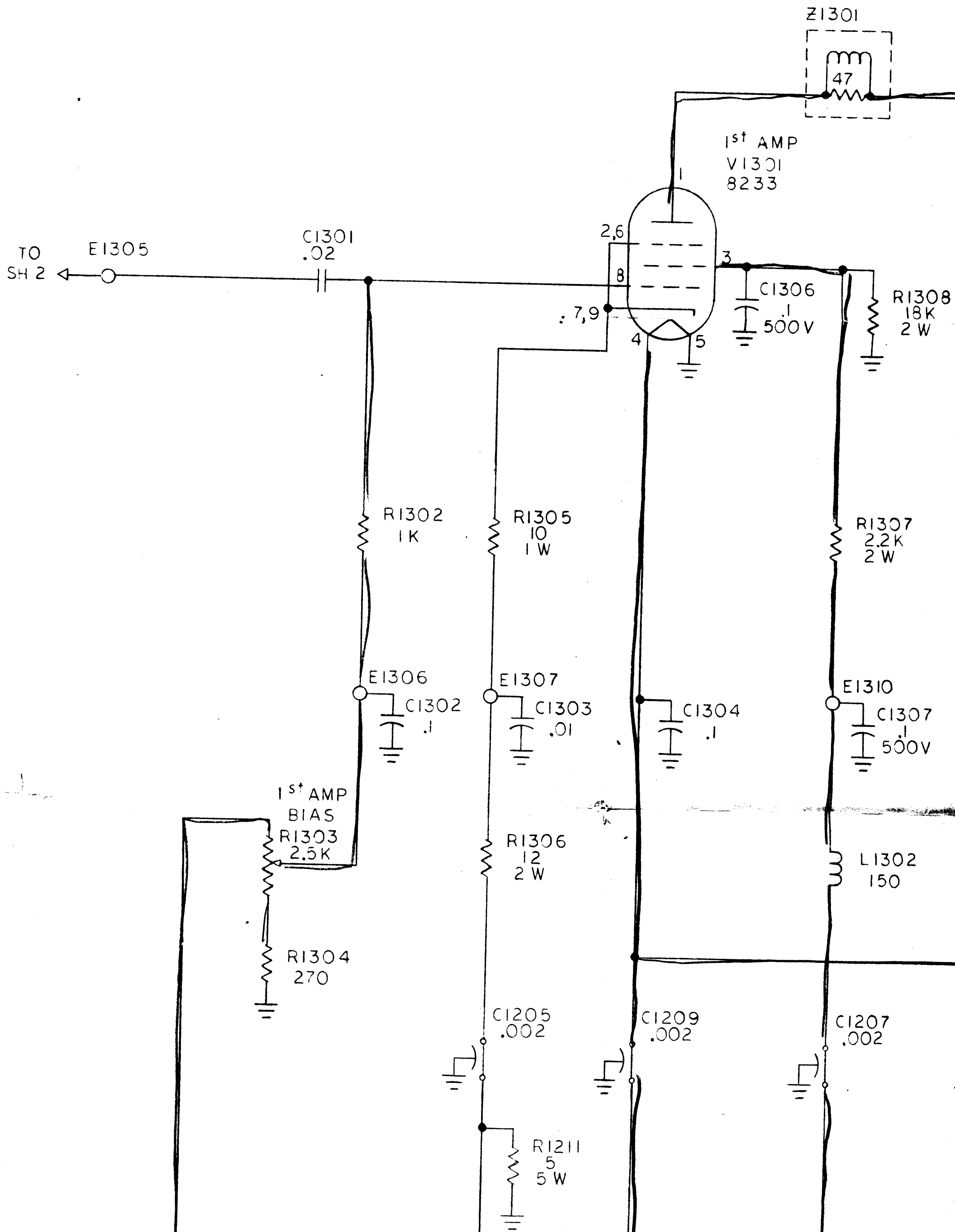
TO SH 3

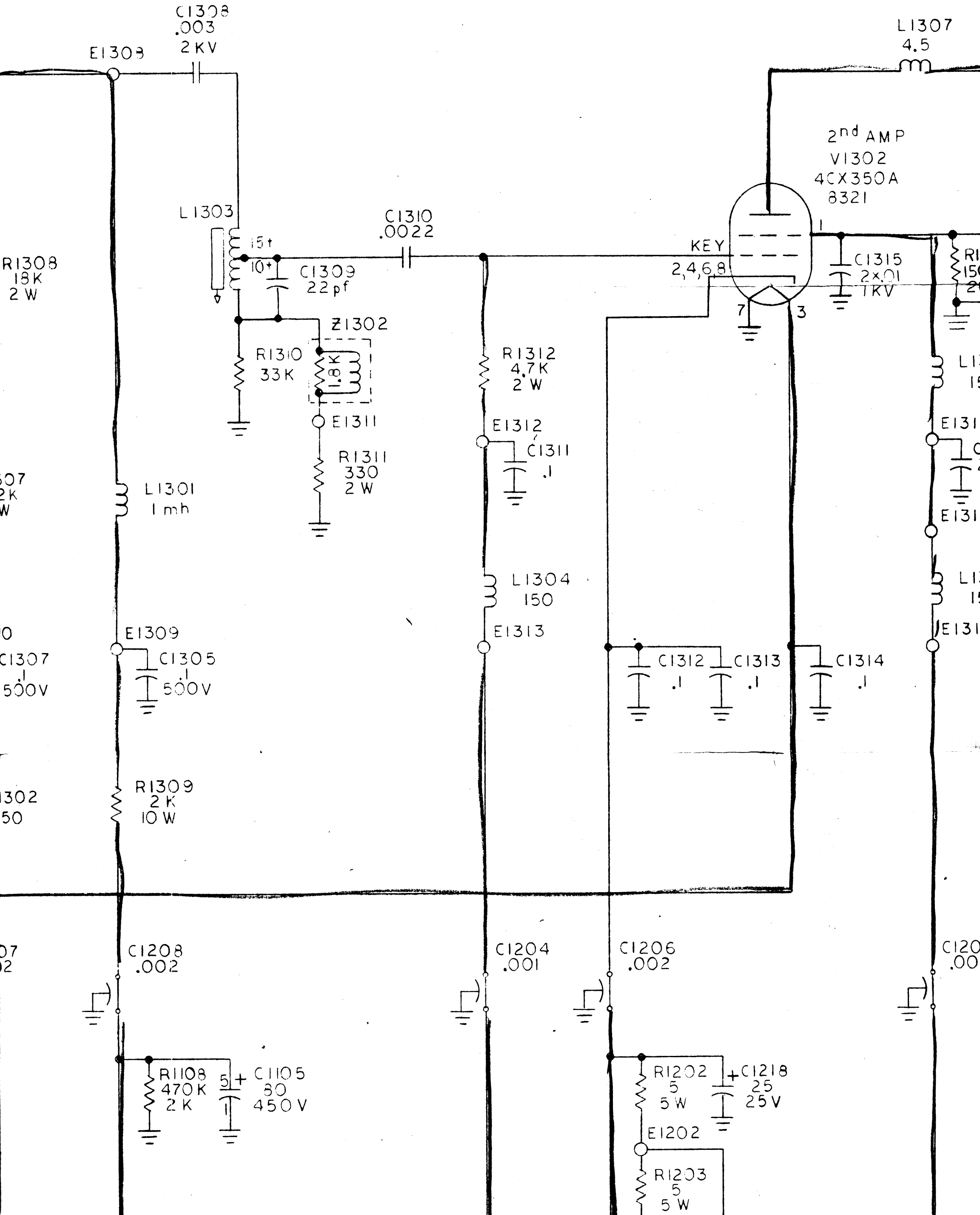
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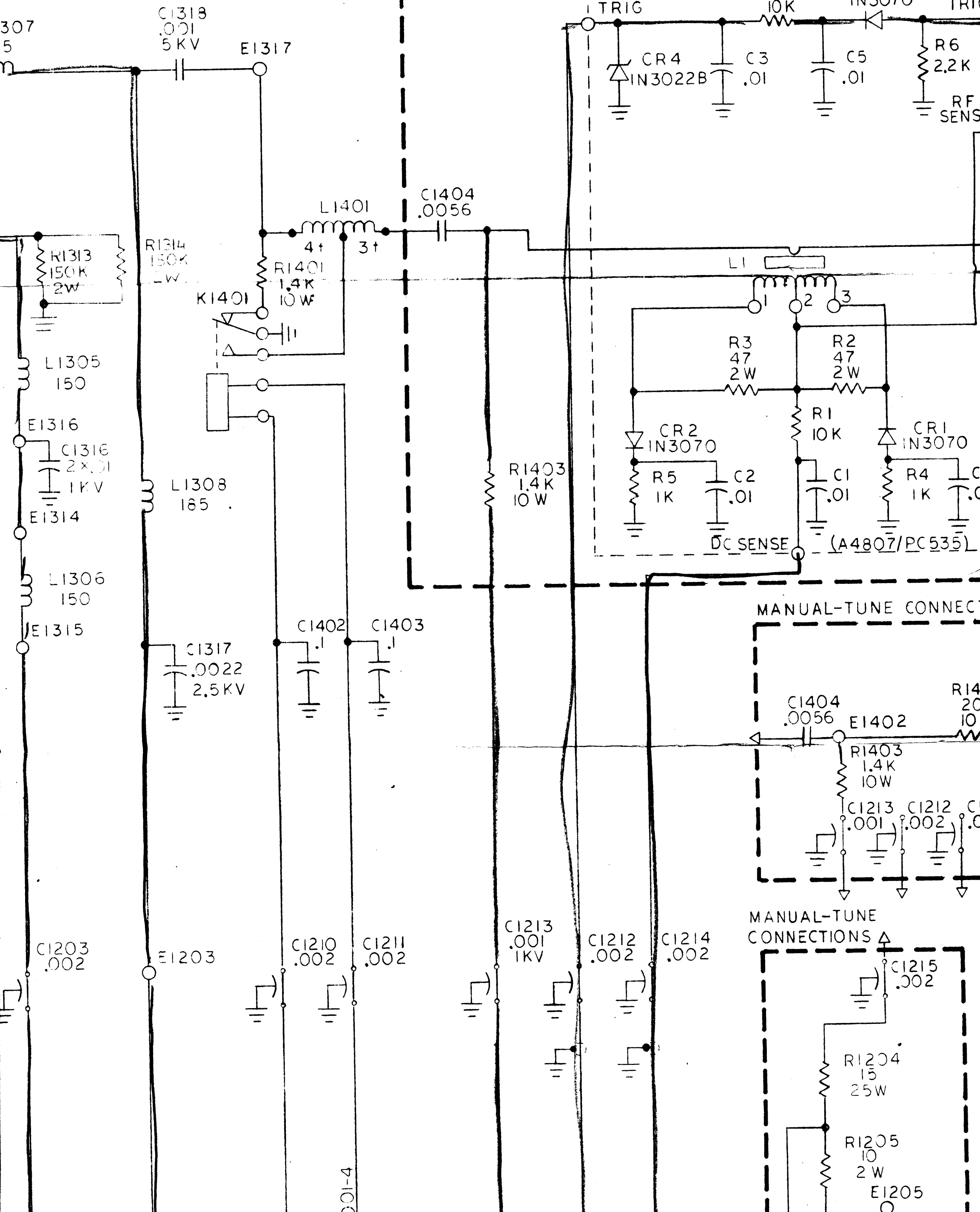
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ELECT. DES	<i>[Signature]</i>	DATE	15 SEPT 72
CHECKED		DATE	
DRAWN	<i>[Signature]</i>	DATE	14 SEP 72

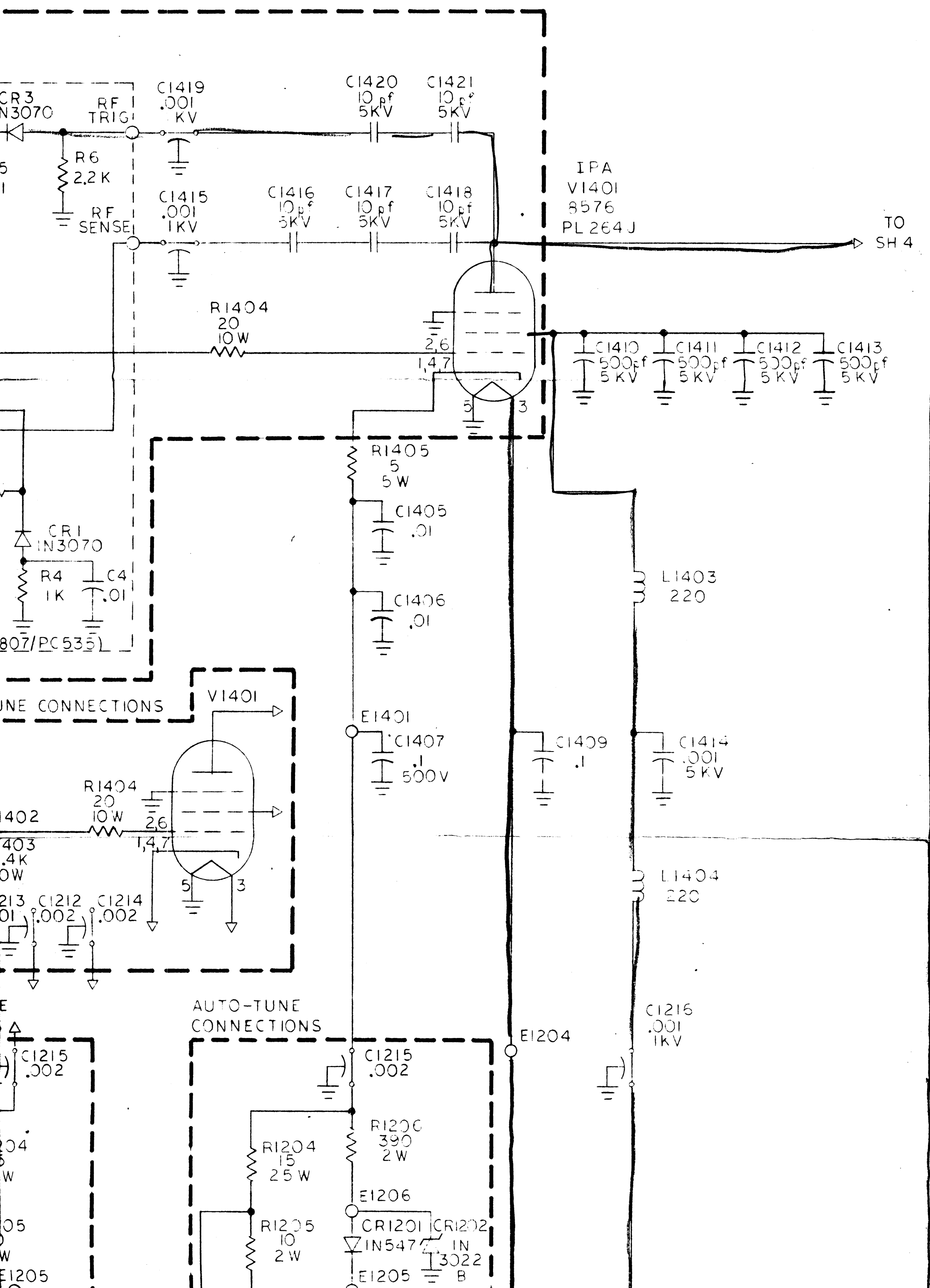
Figure 7-2. Schematic Diagram, HFL()-10K IPA Drawer (Sheet 2 of 4)





AUTO-TUNE CONNECTIONS





CR3
IN3070

R6
2.2K

C1419
.001
1KV

C1420
10 pf
5KV

C1421
10 pf
5KV

C1415
.001
1KV

C1416
10 pf
5KV

C1417
10 pf
5KV

C1418
10 pf
5KV

IPA
V1401
8576
PL 264J

TO
SH 4

R1404
20
10W

2.6
1.47

C1410
500 pf
5KV

C1411
500 pf
5KV

C1412
500 pf
5KV

C1413
500 pf
5KV

R1405
5
5W

C1405
.01

C1406
.01

L1403
220

CR1
IN3070

R4
1K

C4
.01

(807/PC 535)

LINE CONNECTIONS

V1401

R1404
20
10W

2.6

1.47

R1402

.4K

10W

R1403

.01

C1212

.002

C1214

.002

AUTO-TUNE CONNECTIONS

C1215
.002

R1206
390
2W

E1206

CR1201
IN547

CR1202
IN3022

E1205
B

R1204
15
25W

R1205
10
2W

E1204

L1404
220

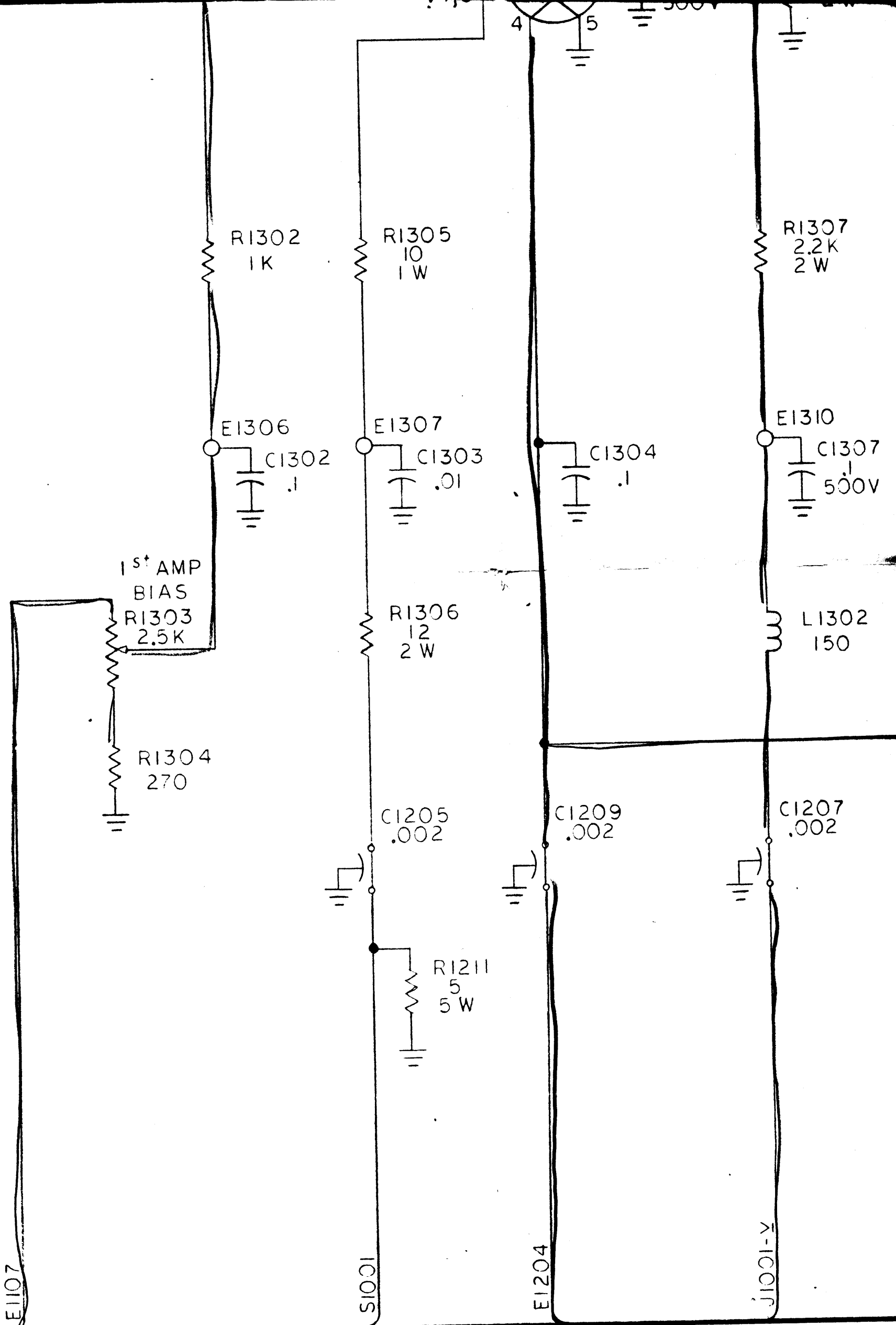
C1215
.001
1KV

C1215
.002

R1204
15
25W

R1205
10
2W

E1205



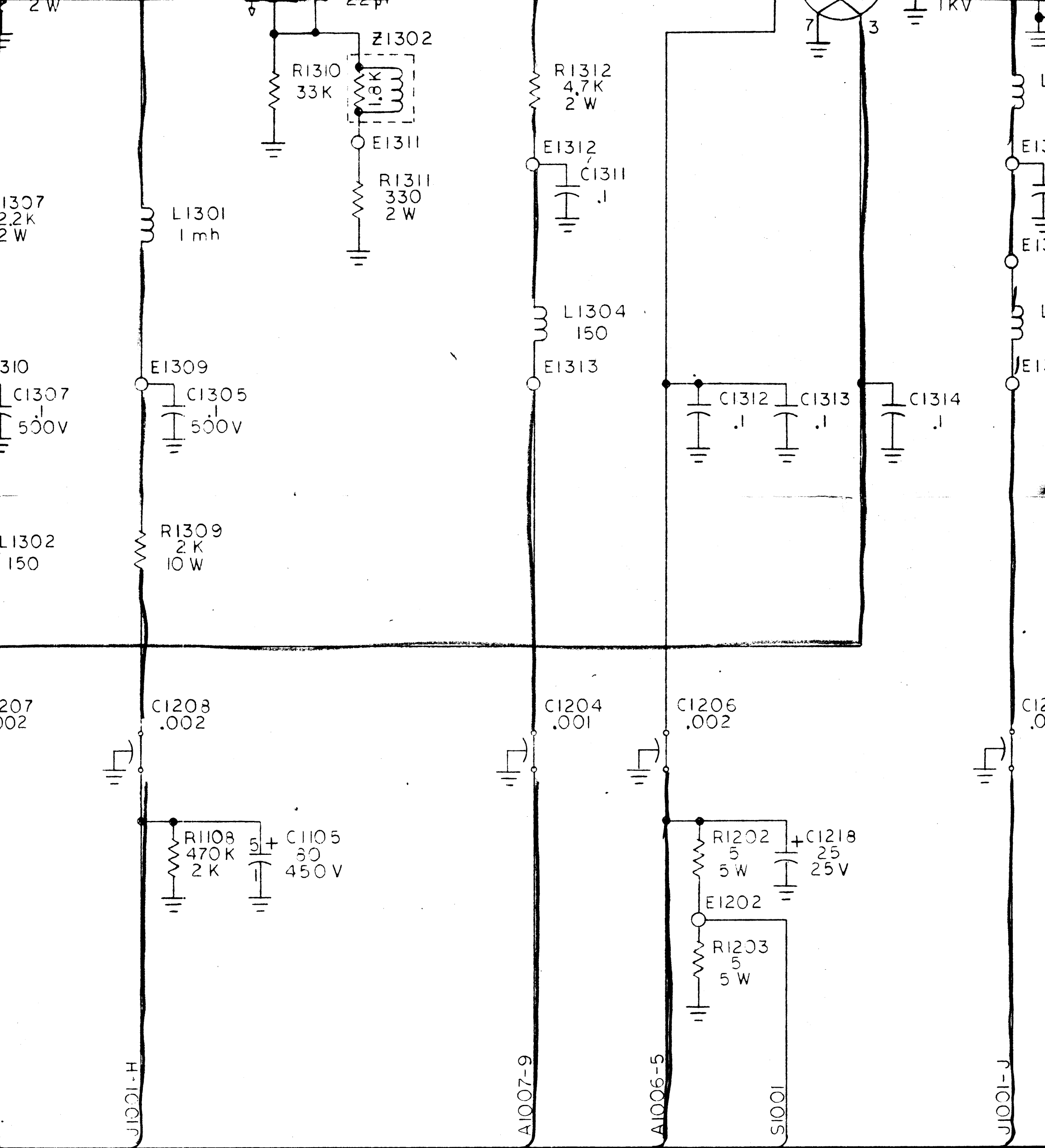
TO SH 2

A1005	
LAST SYM	MISS SYM
A1	
C4	
CR1	
PI	

A1005A1	
LAST SYM	MISS SYM
C4	
CR3	
E29	
K2	
Q2	
R2	
XK2	
Z1	

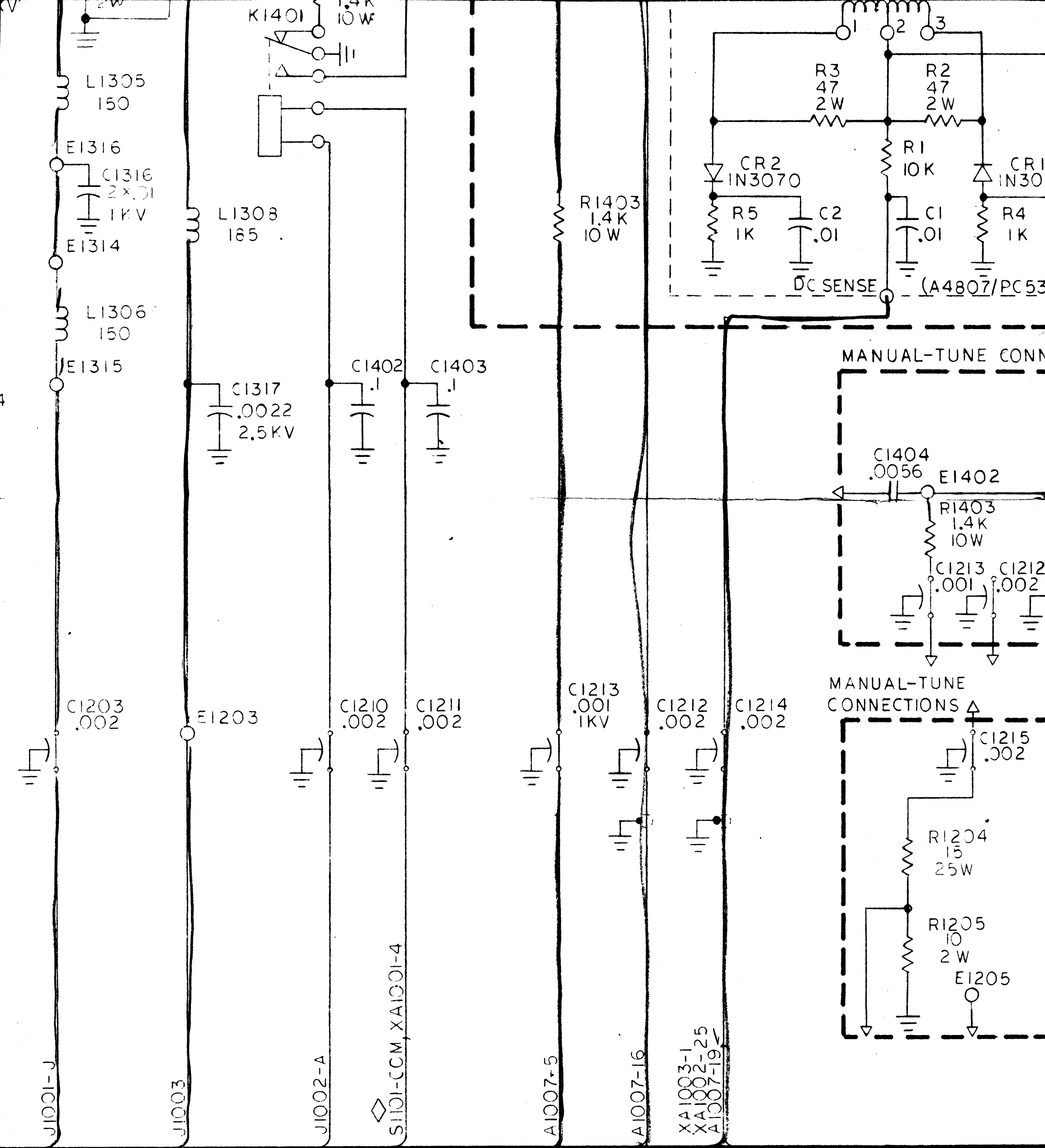
A1006	
LAST SYM	MISS SYM
C4	
CR1	
DS2	
E6	
Q1	
R4	
XDS2	

A1007	
LAST SYM	MISS SYM
C4	
E20	
R16	RI
TP5	



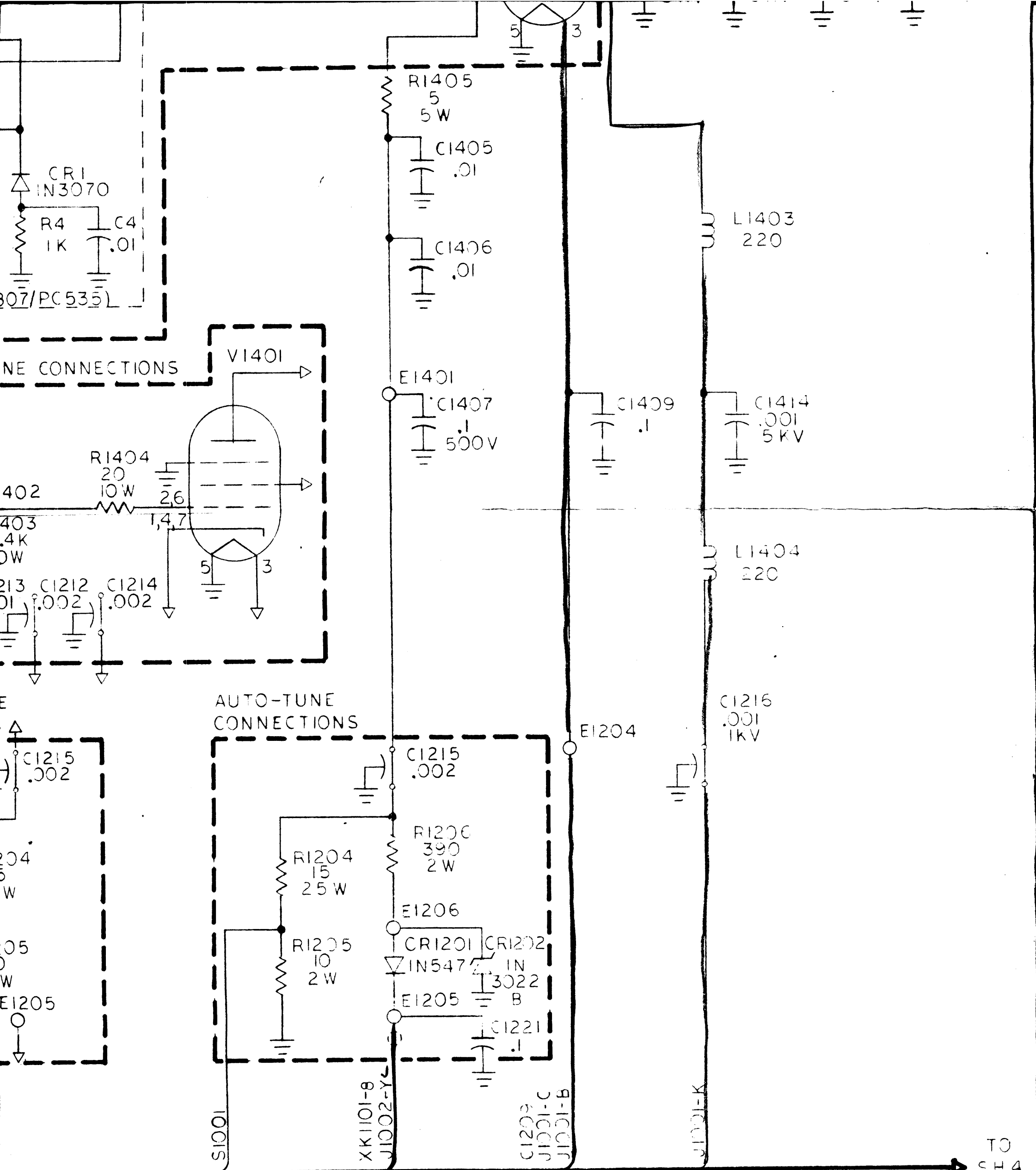
A1007	
SYM	MISS SYM
	R1

A1003	
LAST SYM	MISS SYM
C5	
CR4	
L1	
R7	



REVISIONS							
ZONE	LTR	DESCRIPTION	DATE	E.M.N.NO	DRAFT	CHKD	APPD
	Ø		9-16-72		EP		
	A	ADD SILENTER 1214 1KV 5W	11-7-72	21004	EP	EP	EP
	B	DELE R1402, R1401 WAS ABOVE R1401	2-2-73	21005	EP	EP	EP

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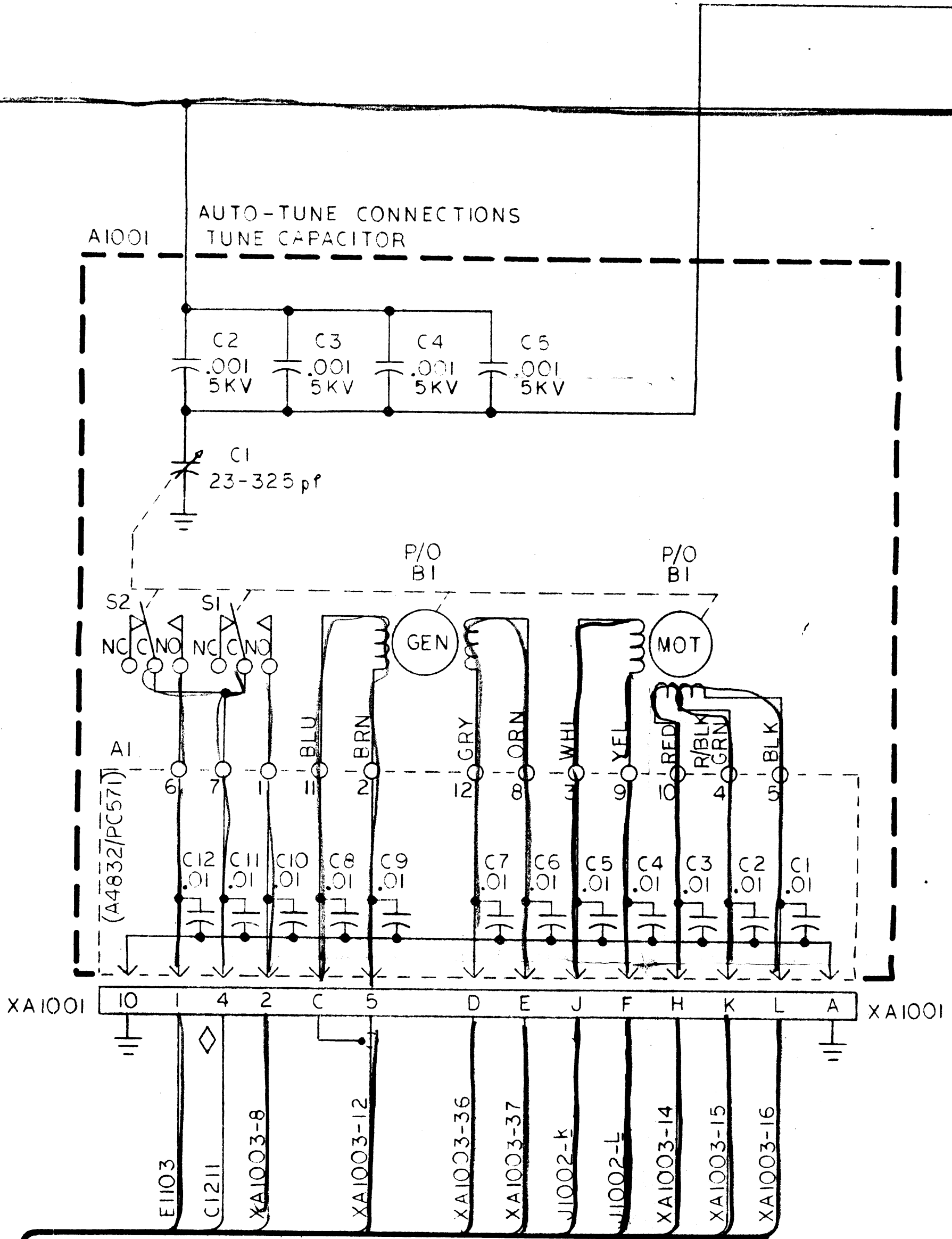


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<i>[Signature]</i>	15 SEP 72
MECH. DES.	DATE
ELECT. DES.	DATE
<i>[Signature]</i>	15 SEP 72
CHECKED	DATE
DRAWN	DATE
<i>[Signature]</i>	14 SEP 72

Figure 7-2. Schematic Diagram, HFL()-10K
 IPA Drawer (Sheet 3 of 4)

TO SH 3



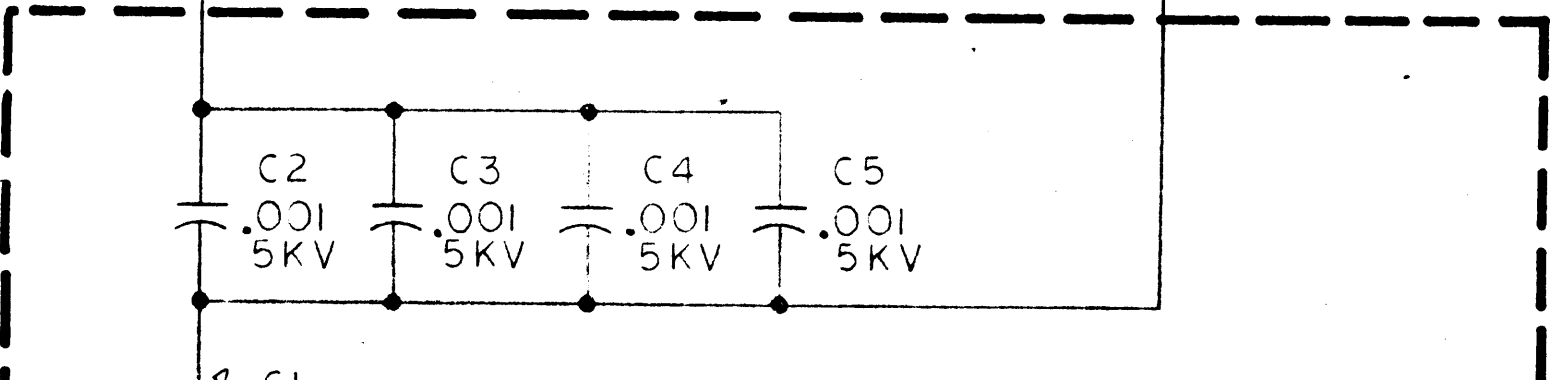
A1002

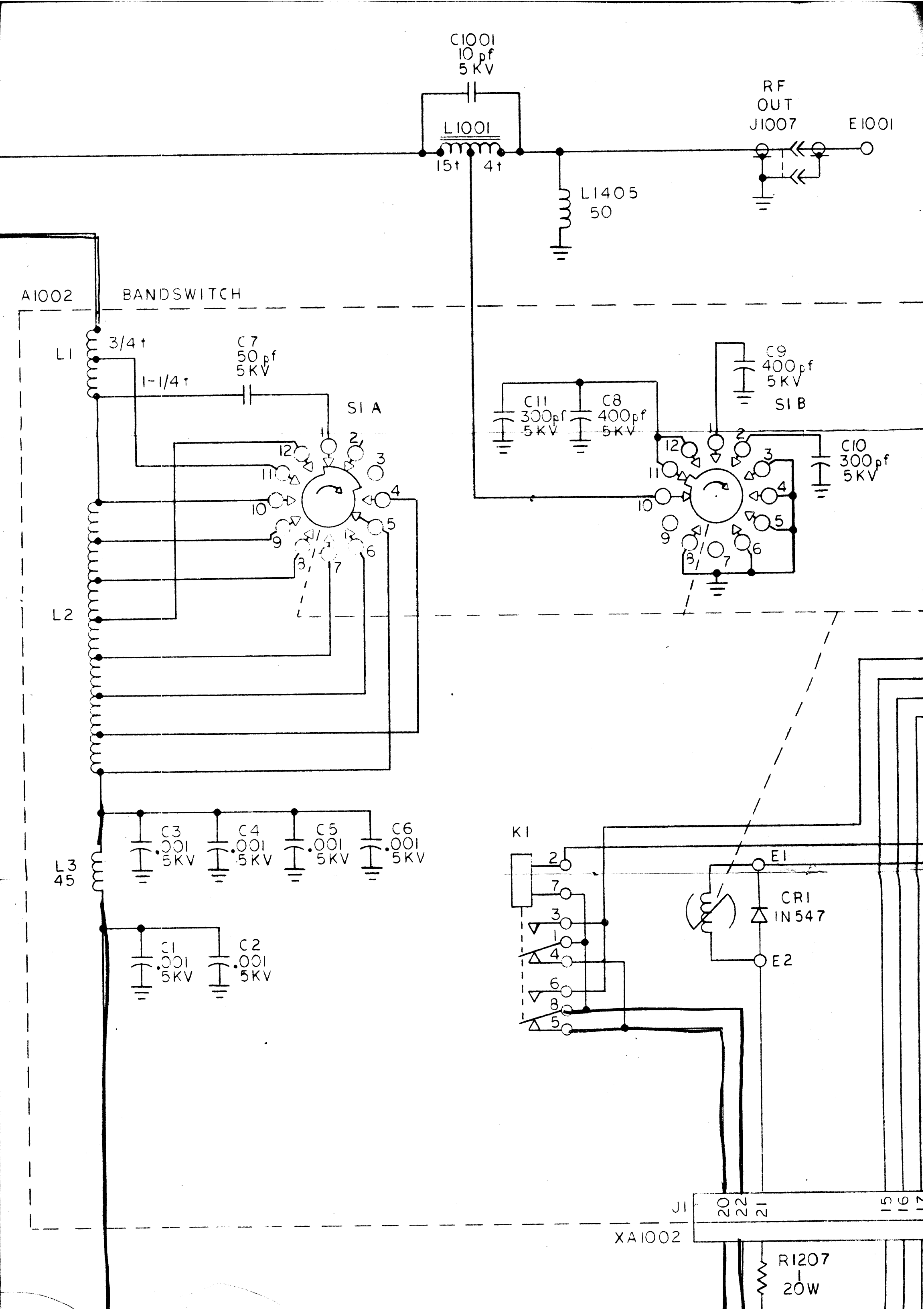
L

L2

L3
45

**MANUAL-TUNE CONNECTIONS
TUNE CAPACITOR**



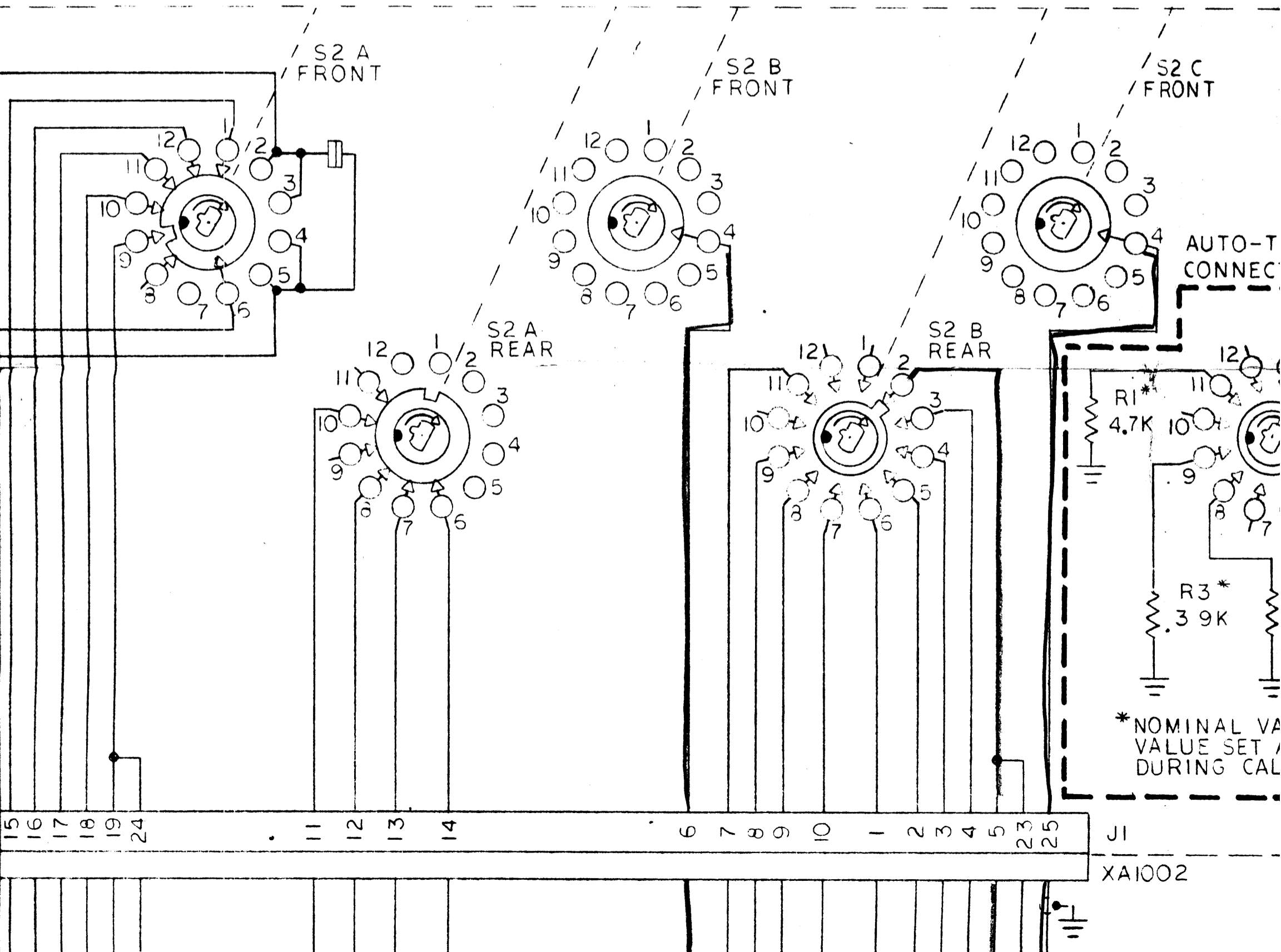


001
D

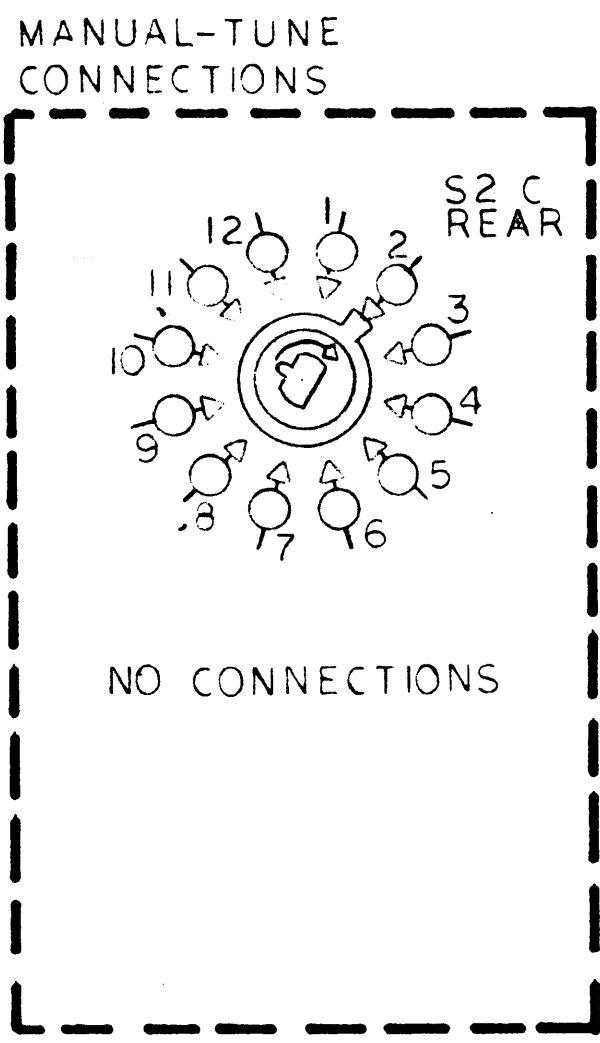
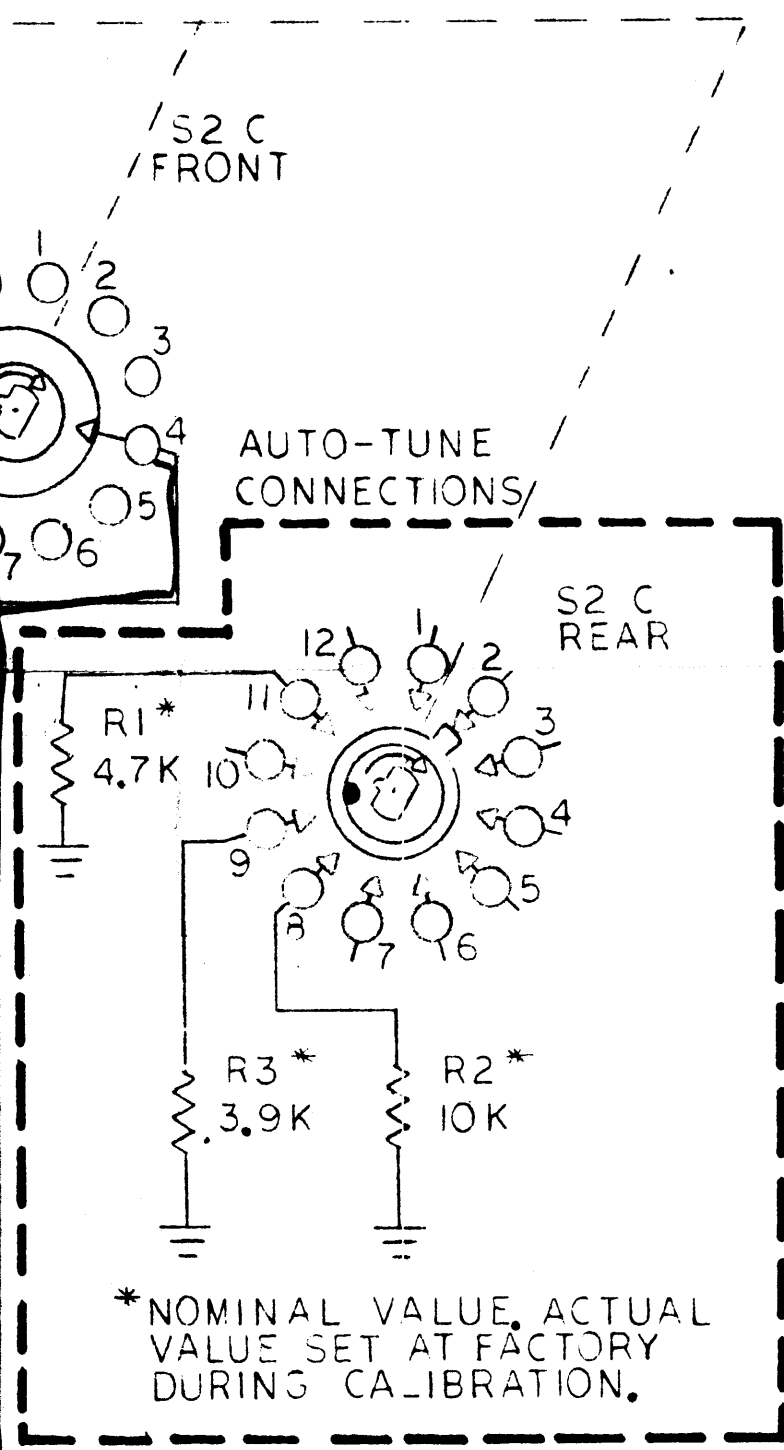
BANDSWITCH
SHOWN
IN
BAND T
(POSITION 1)

POS 1	2.0 - 2.6 MHz
POS 2	2.6 - 3.0 MHz
POS 3	3 - 4 MHz
POS 4	4 - 5 MHz
POS 5	5 - 8 MHz
POS 6	8 - 12 MHz
POS 7	12 - 16 MHz
POS 8	16 - 24 MHz
POS 9	-
POS 10	24 - 30 MHz
POS 11	-
POS 12	-

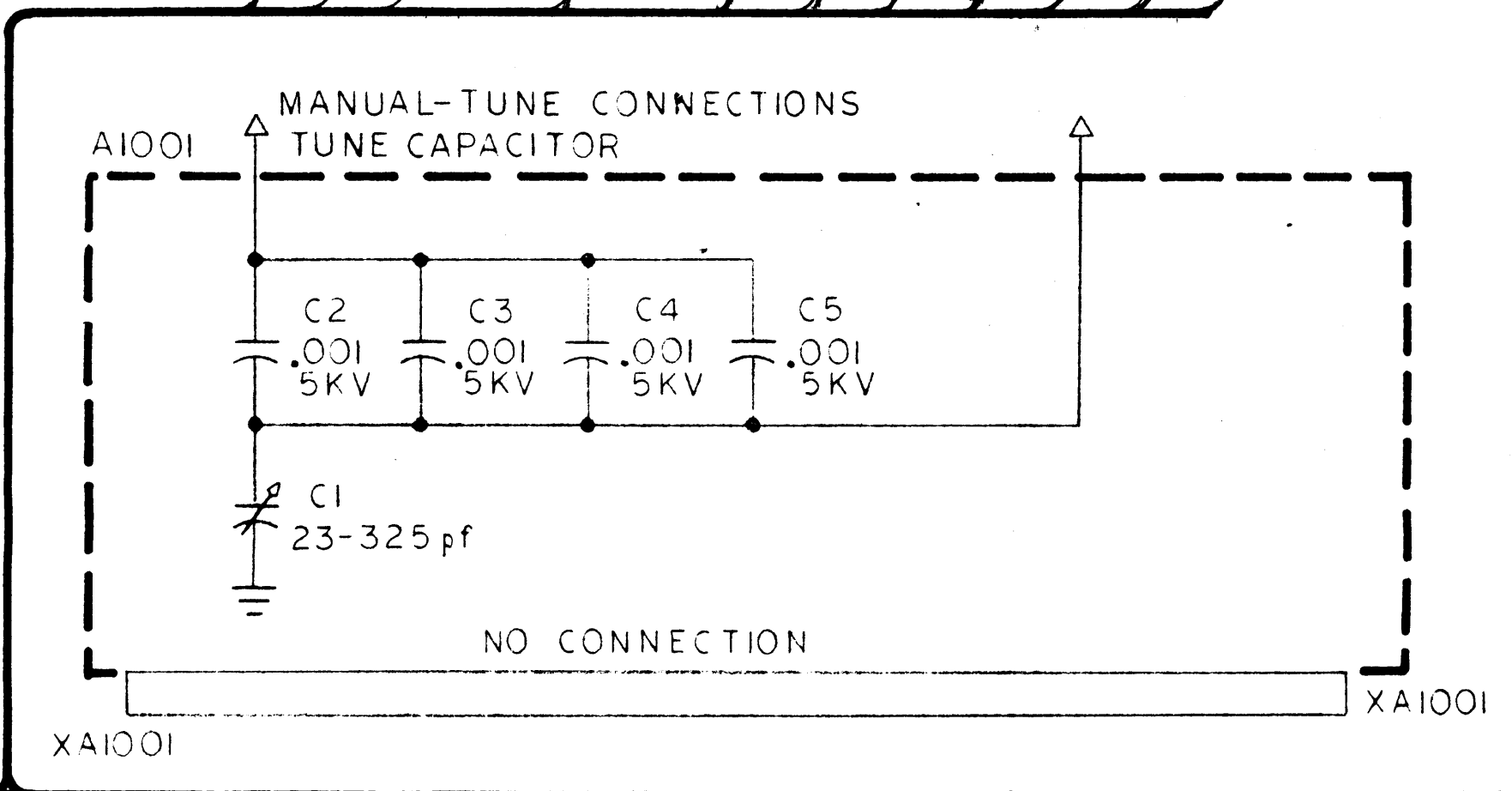
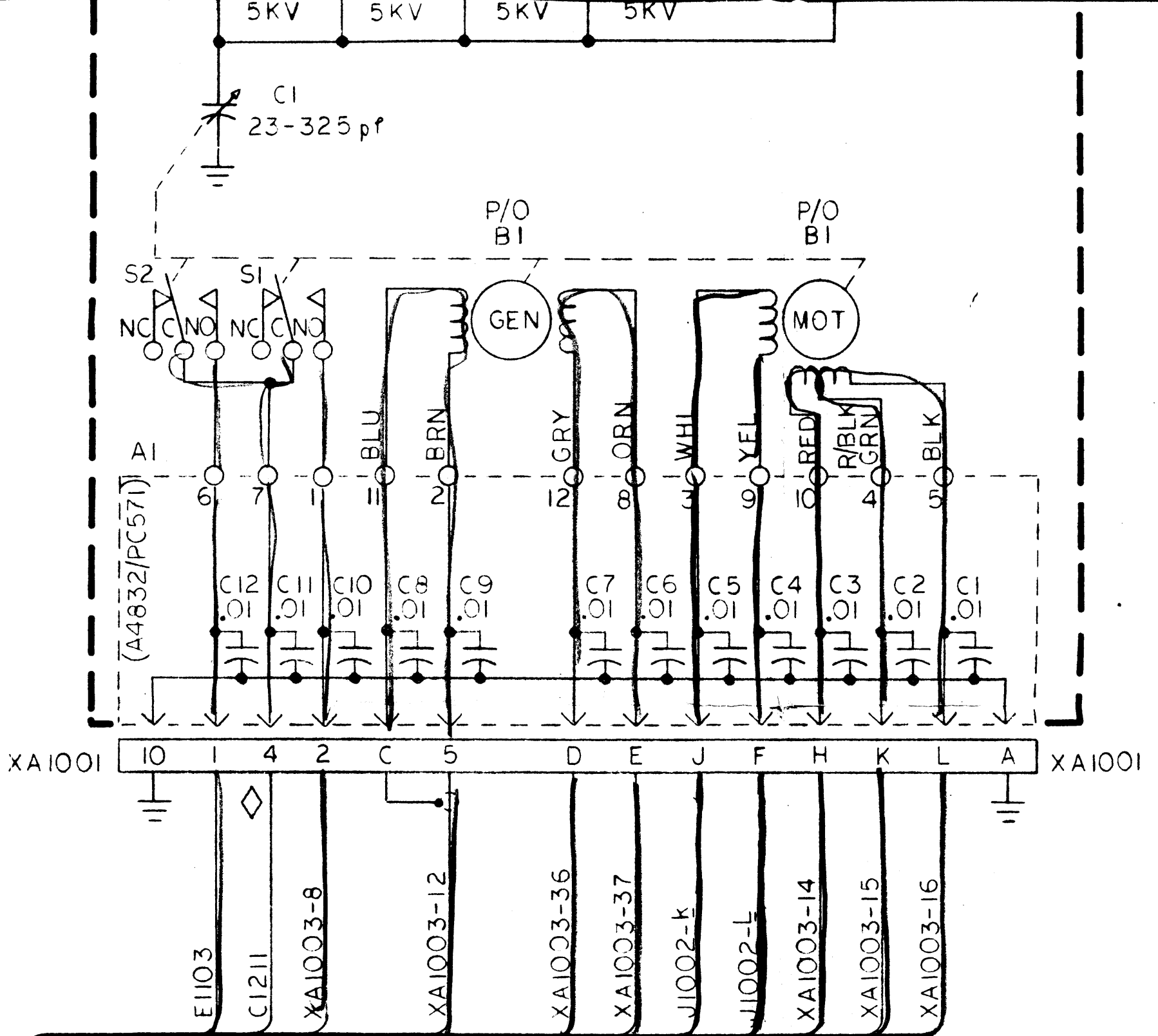
A WAFER TERM NO.	SYMBOL NO.	B WAFER TERM
1	A1002E3	1
2	A1002E4	2
3	-	3
4	A1002E5	4
5	A1002E6	5
6	A1002E7	6
7	A1002E8	7
8	A1002E9	8
9	A1002E10	9
10	A1002E11	10
11	A1002E12	11
12	A1002E13	12



SYMBOL NO.	B WAFER TERM NO.	SYMBOL NO.
02E3	1	A1002E14
02E4	2	A1002E15
—	3	A1002E16
02E5	4	A1002E17
02E6	5	A1002E18
02E7	6	A1002E19
02E8	7	—
02E9	8	A1002E20
02E10	9	—
02E11	10	A1002E21
02E12	11	A1002E22
02E13	12	A1002E23



J1
XA1002

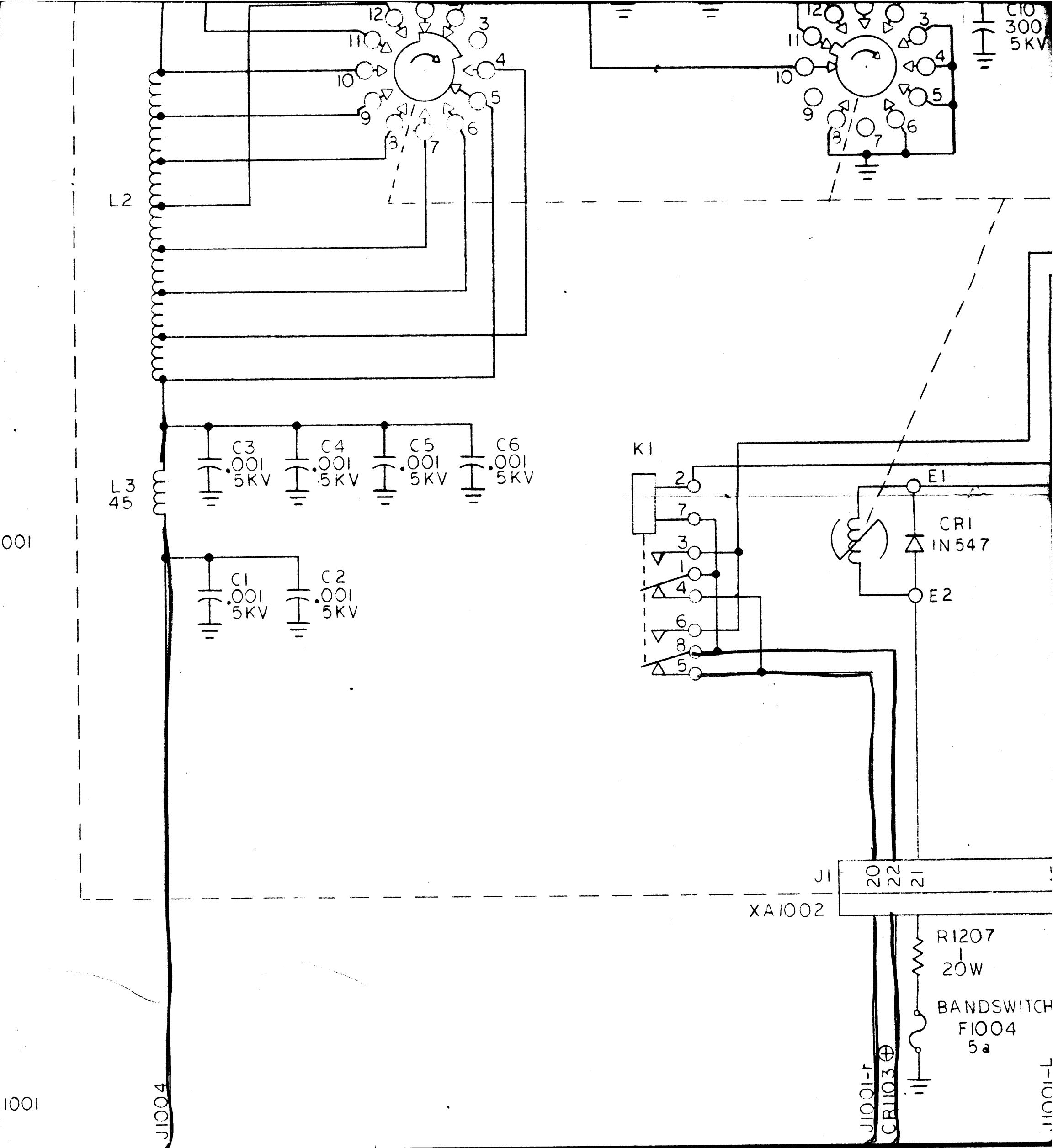


TO SH 3

1100		MISS SYM
LAST SYMBOLS		
C1117	XC1105	
CR1109	XCR1109	
E1107	XK1101	
K1101		
L1101		
R1111		
S1101		
T1101		
TB1102		XC1101-3 XCR1101-6

1200	
LAST SYM	MISS SYM
C1221	C1201
CR1203	
E1210	
K1201	
R1211	
S1201	
XK1201	

1300	
LAST SYM	MISS SYM
B1301	
C1318	
E1317	
L1308	
R1314	
S1302	
V1302	
XV1302	
Z1302	



001

1001

1300	
LAST SYM	MISS SYM
B1301	
C1313	
E1317	
L1305	
R1314	
S1302	
V1302	
XV1302	
Z1302	

1400	
LAST SYM	MISS SYM
B1401	
C1421	C1401,8
E1402	
K1401	
L1405	L1402
R1405	R1402
S1401	
V1401	
XV1401	

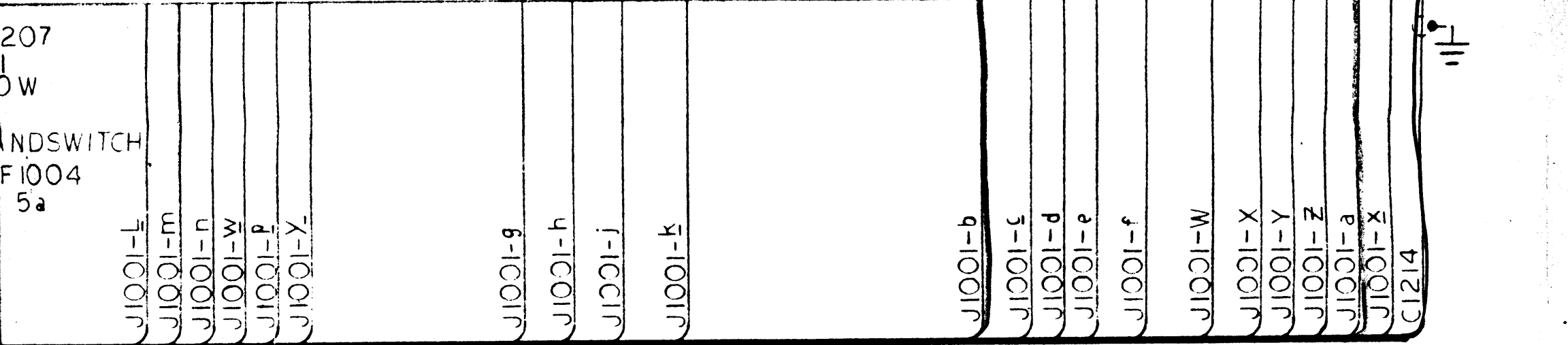
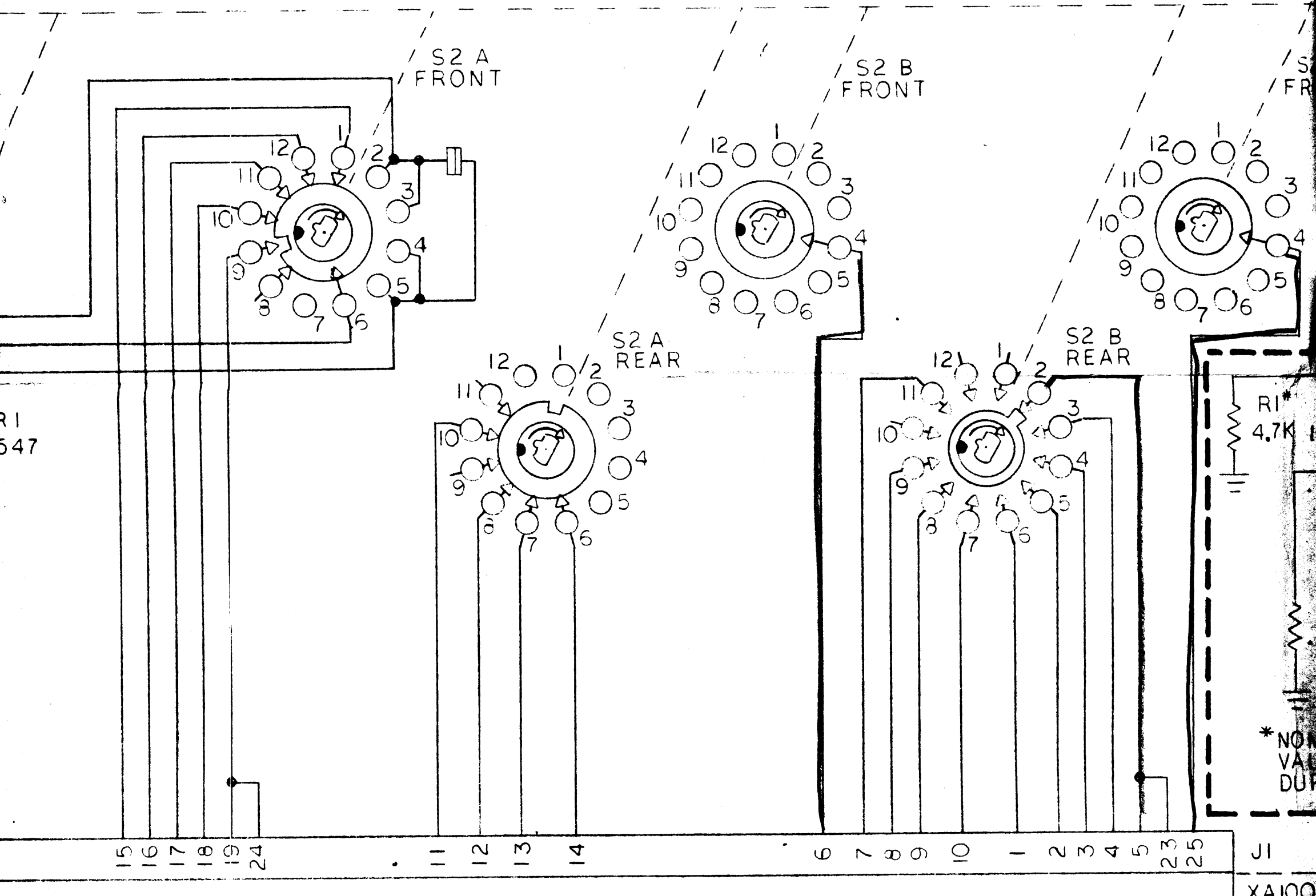
- Note 1. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. COMPLETE DESIGNATION PREFIX THE PART WITH THE SUB-ASSEMBLY DESIGNATION.
- Note 2. ◊ IS REFERENCE INDICATOR FOR THE +24V DC SUPPLY.
- Note 3. UNLESS OTHERWISE SPECIFIED:
 ALL RESISTANCE VALUES IN OHMS, 1/2 W.
 ALL CAPACITANCE VALUES IN MICROFARAD.
 ALL INDUCTANCE VALUES IN MICROHENRY.

C10
300 pf
5KV

BAND 1
(POSITION 1)

POS 6	3 - 12	MHZ
POS 7	12 - 16	MHZ
POS 8	16 - 24	MHZ
POS 9	-	
POS 10	24 - 30	MHZ
POS 11	-	
POS 12	-	

5	A1002 E 6
6	A1002 E 7
7	A1002 E 8
8	A1002 E 9
9	A1002 E 10
10	A1002 E 11
11	A1002 E 12
12	A1002 E 13



ARE SHOWN. FOR
E. PART DESIGNATION
ATION.

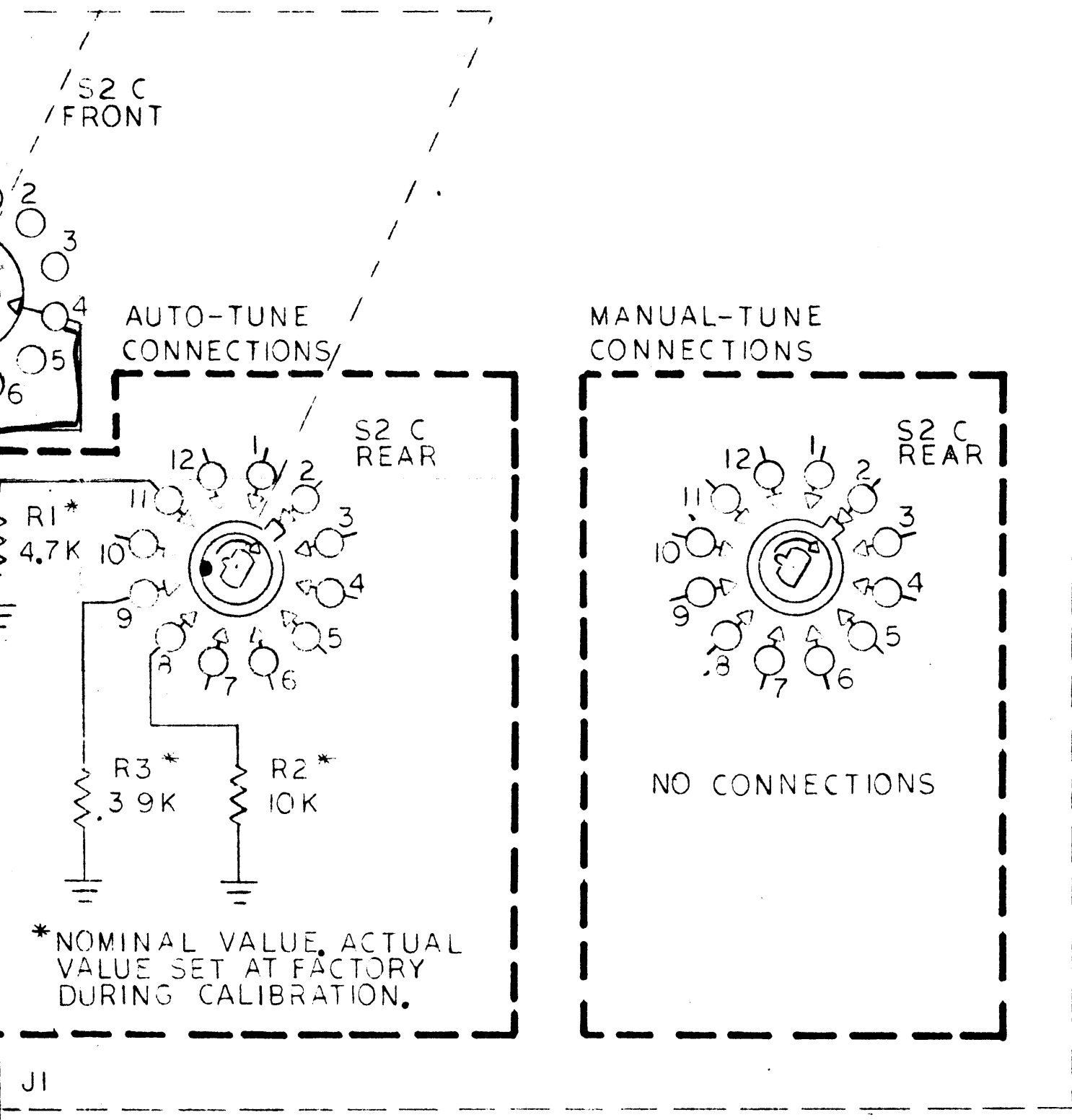
THE +24V REGULATED

MS, 1/2 WATT.
MICROFARADS.
CROHENRIES.

REVISIONS							
ZONE	LTR	DESCRIPTION	DATE	E.M.N.NO	DRAFT	CHKD	APPD
	∅		9-16-72		EF		
	A	1307 RELE R1314 WAS R1312	11/3/72	20041	GE	EF	EF
	B	ADD R1902 TO MISS. STM	2 Feb 73	21005	AM	AM	AM

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E 5	5	A1002E 18
E 7	6	A1002E 19
E 8	7	—
E 9	8	A1002E 20
E 10	9	—
E 11	10	A1002E 21
E 12	11	A1002E 22
E 13	12	A1002E 23

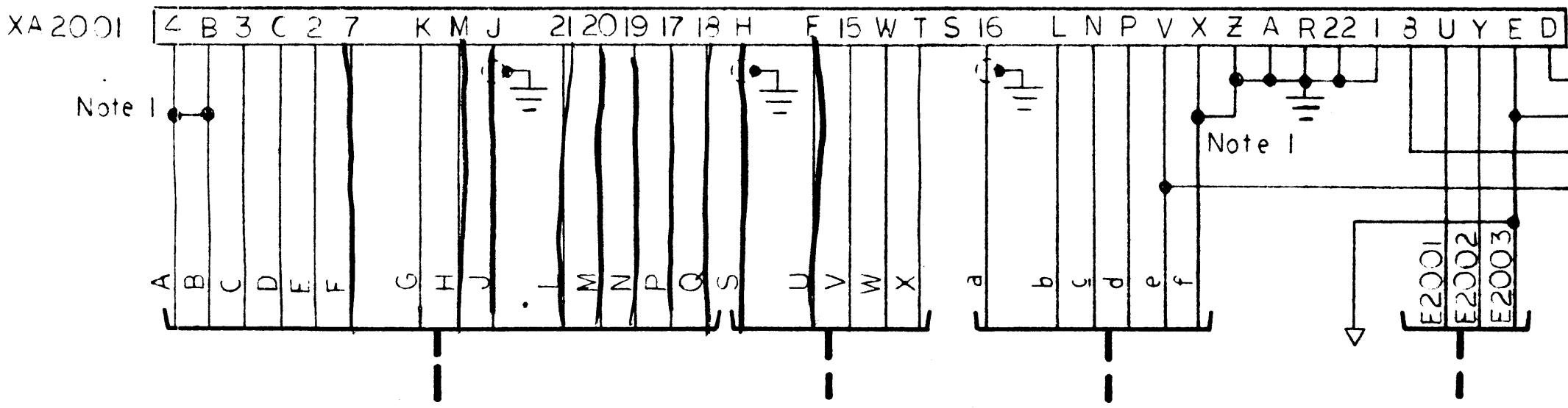


XA1002

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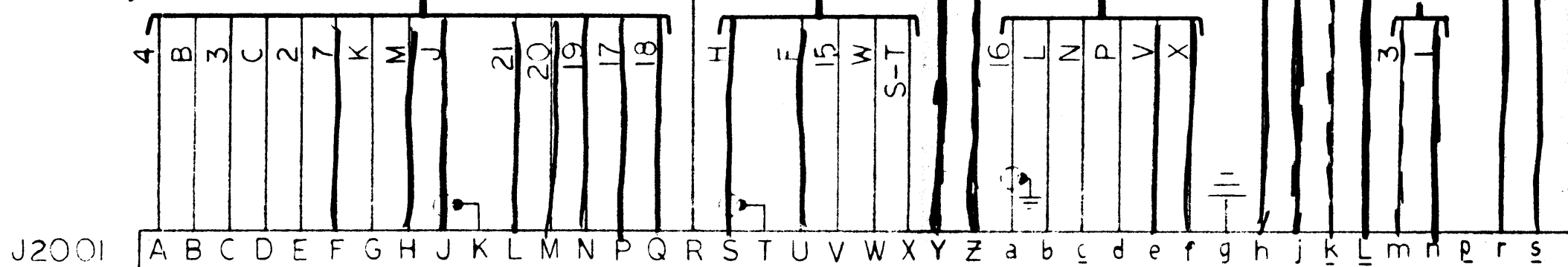
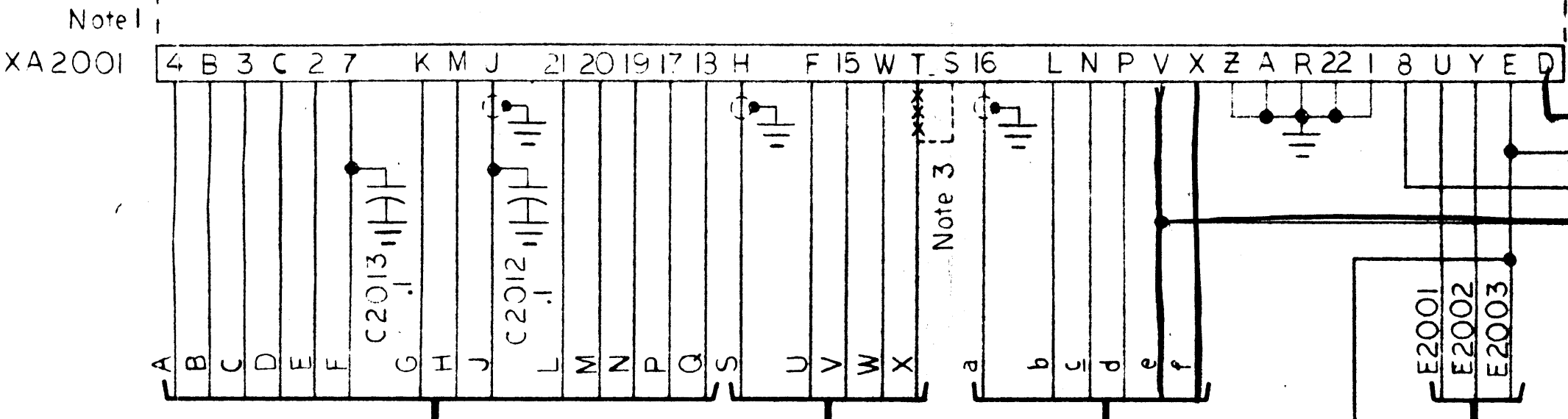
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MECH. DES.	DATE
ELECT. DES. <i>[Signature]</i>	DATE 15 SEP 72
CHECKED	DATE
DRAWN <i>[Signature]</i>	DATE 14 SEP 72

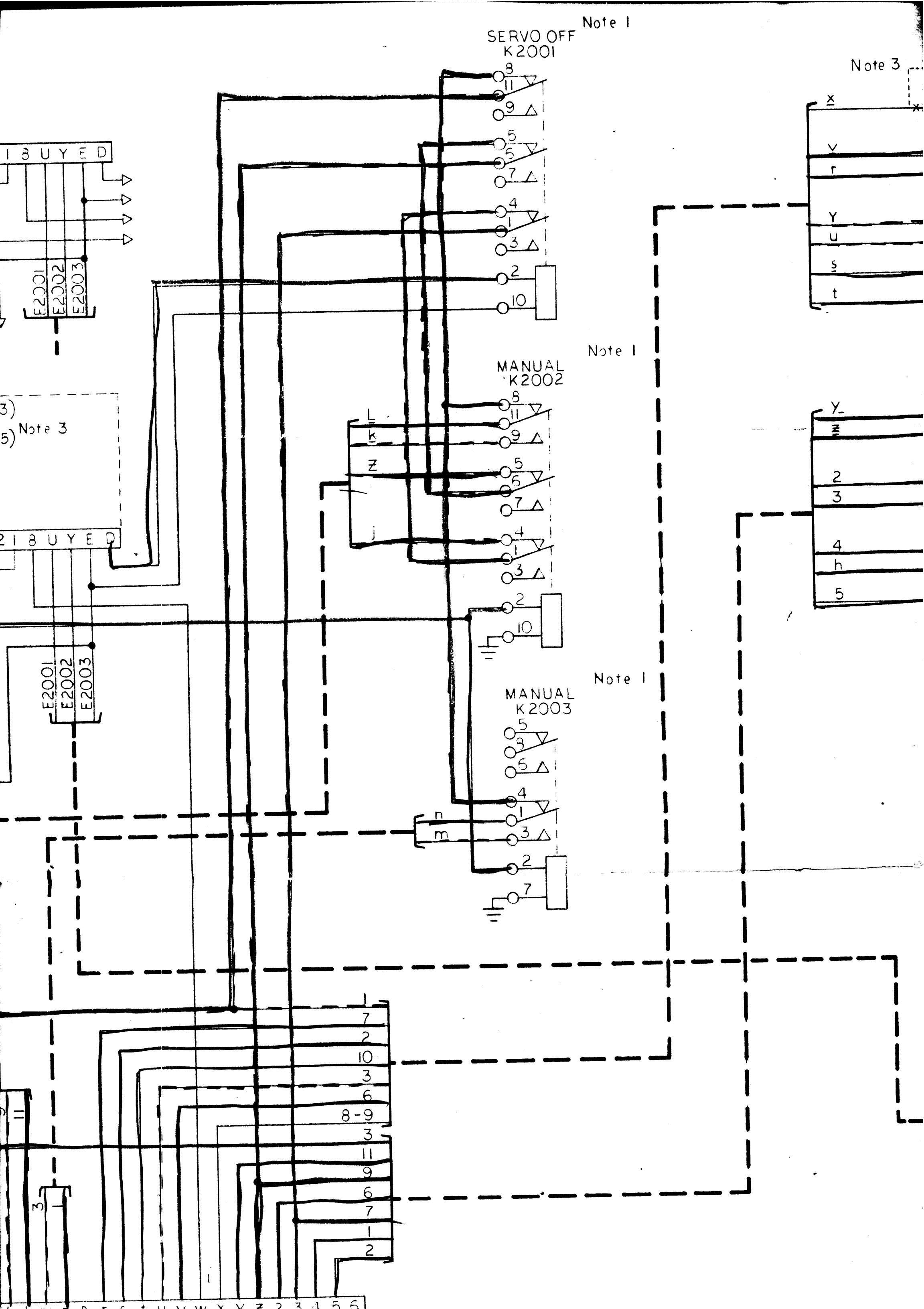
Figure 7-2. Schematic Diagram, HFL()-10K IPA Drawer (Sheet 4 of 4)



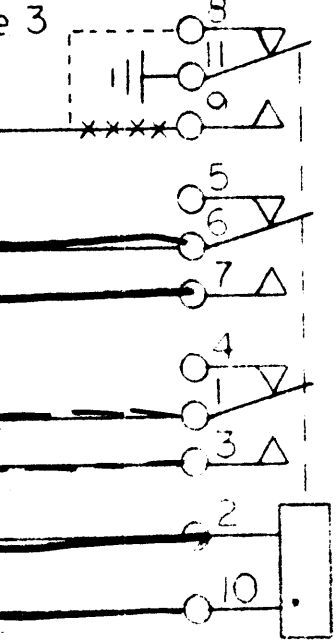
A2001 Note 1

FOR AUTO-TUNE: SEE CK1756. (A4834/PC573)
 FOR MANUAL-TUNE: A2001 NOT INSTALLED. (A4863/PC585) Note 3
 XA2001 CONNECTED AS SHOWN ABOVE.

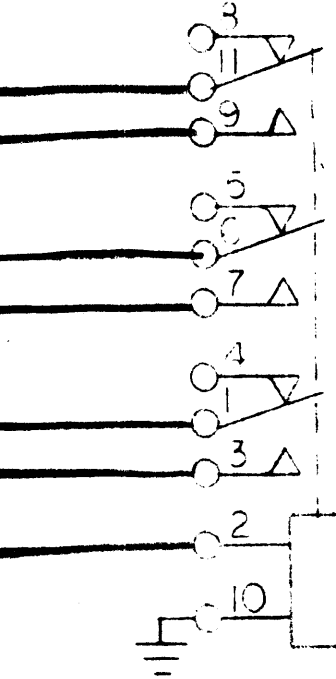




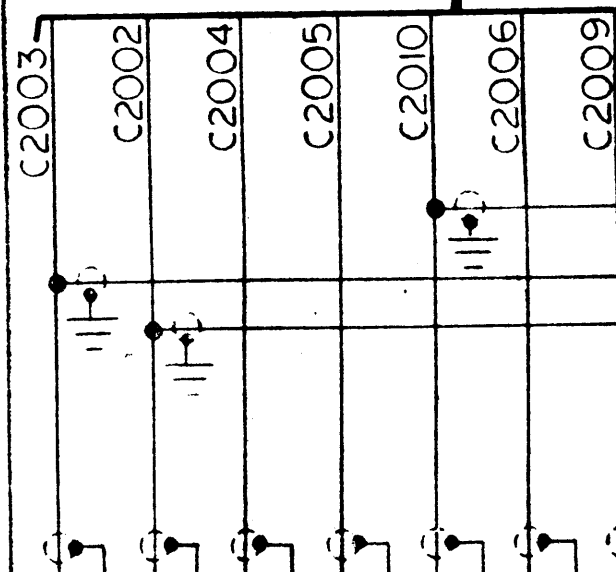
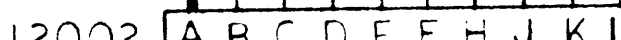
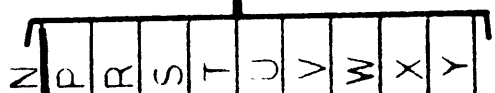
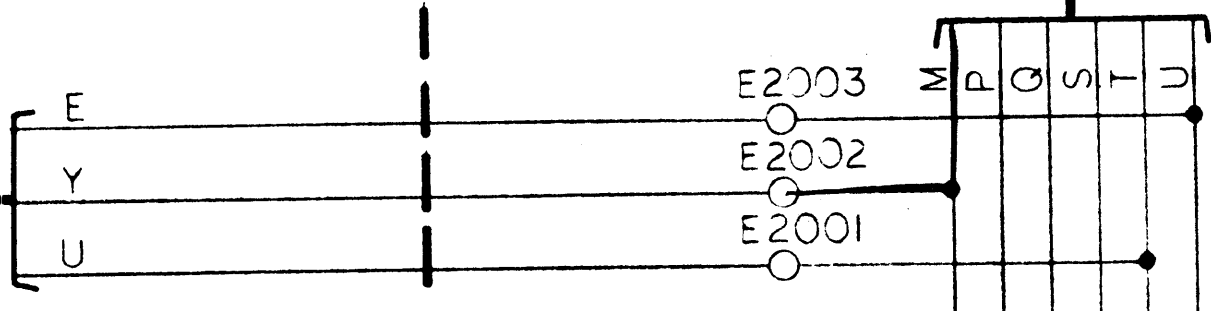
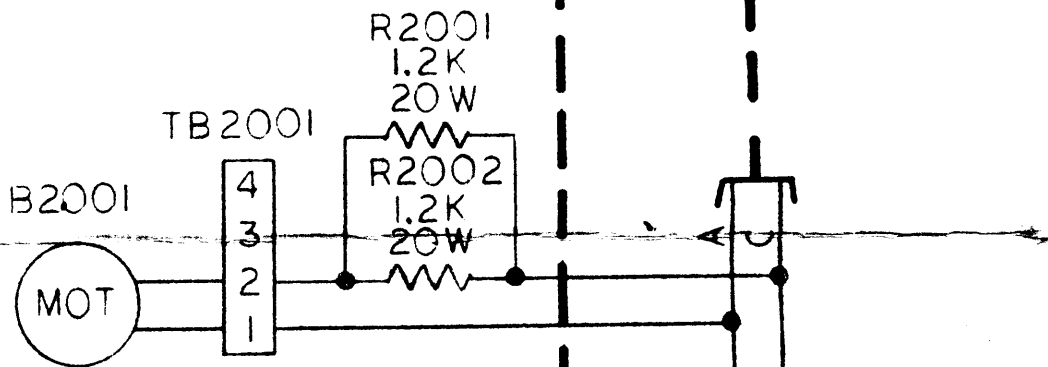
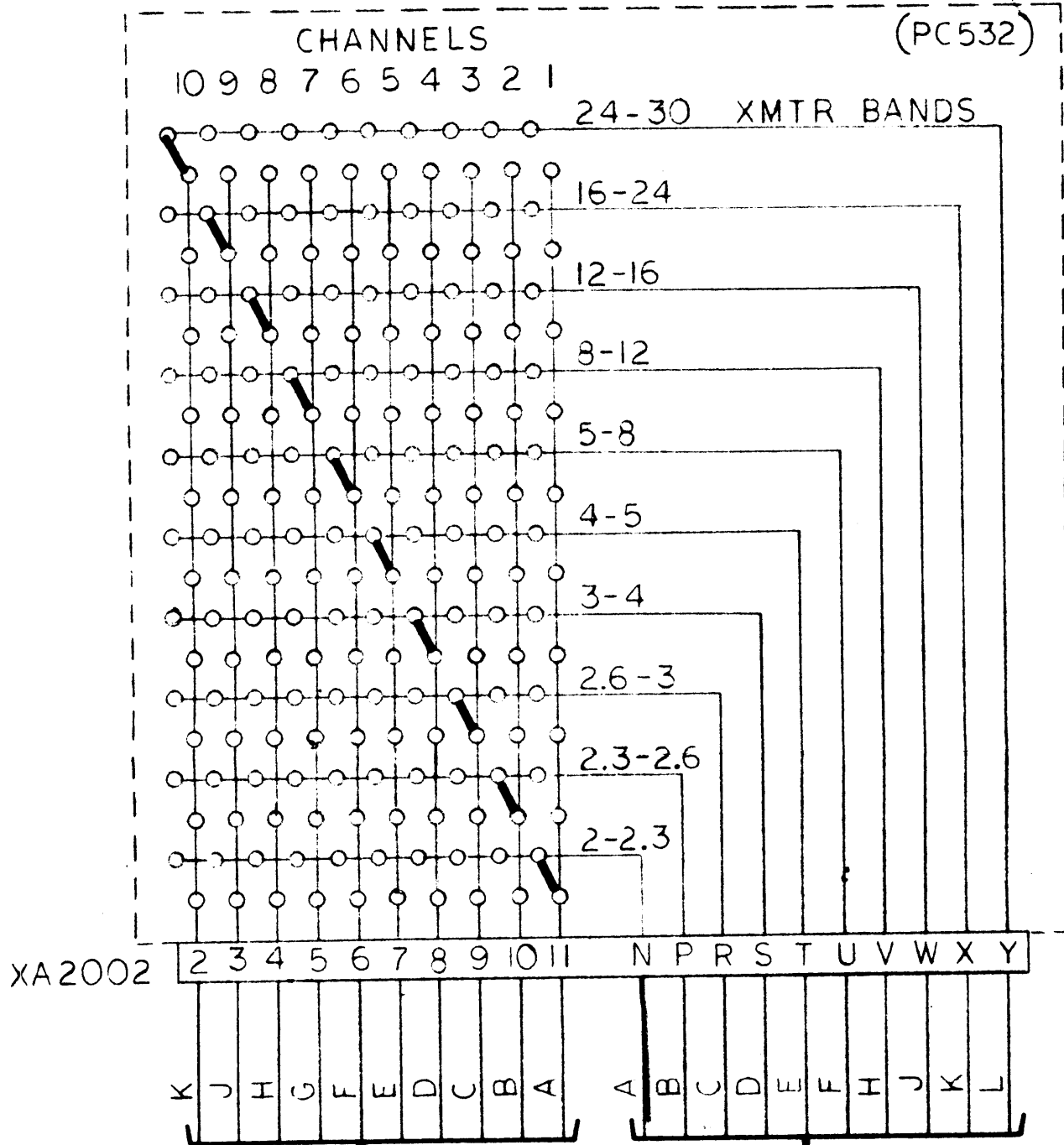
HV ON-OFF
K2004



BIAS ON
K2005



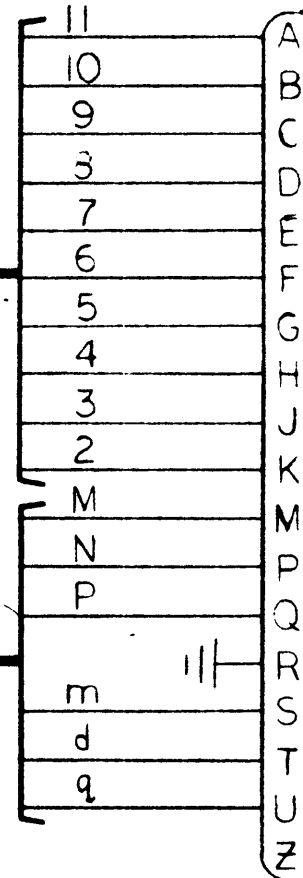
Notes 1,2
A2002 CHANNEL-BAND SELECT



EXCITER

P2001

TO J119



SME CHANNELS
MMX BANDS

COMMON

EXCITER.PTT

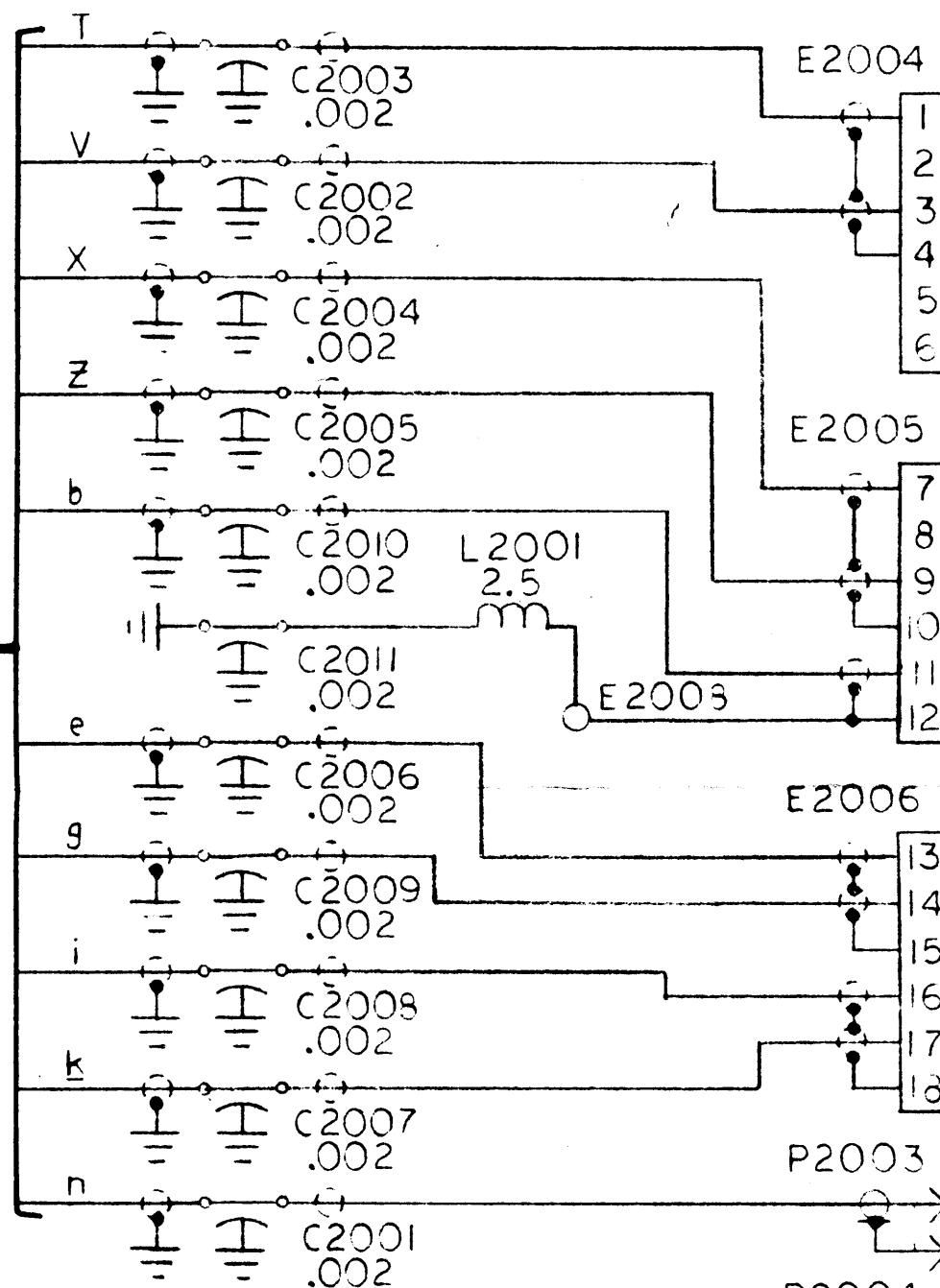
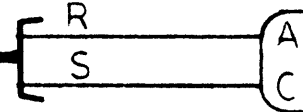
XMTR PTT

CARRIER ON

GND

P2002

TO J116
POWER



TO TB103

USB

GND

TO TB104

LSB

GND

KEY

GND

TO TB105

FSK

GND

FAX

CONTACT

GND

P2003

TO J123
ALDC

P2004

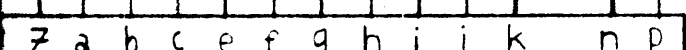
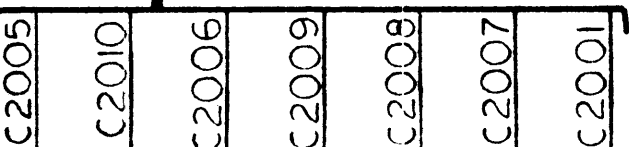
TO J124
RF OUT

P2005

TO J125
RF MON

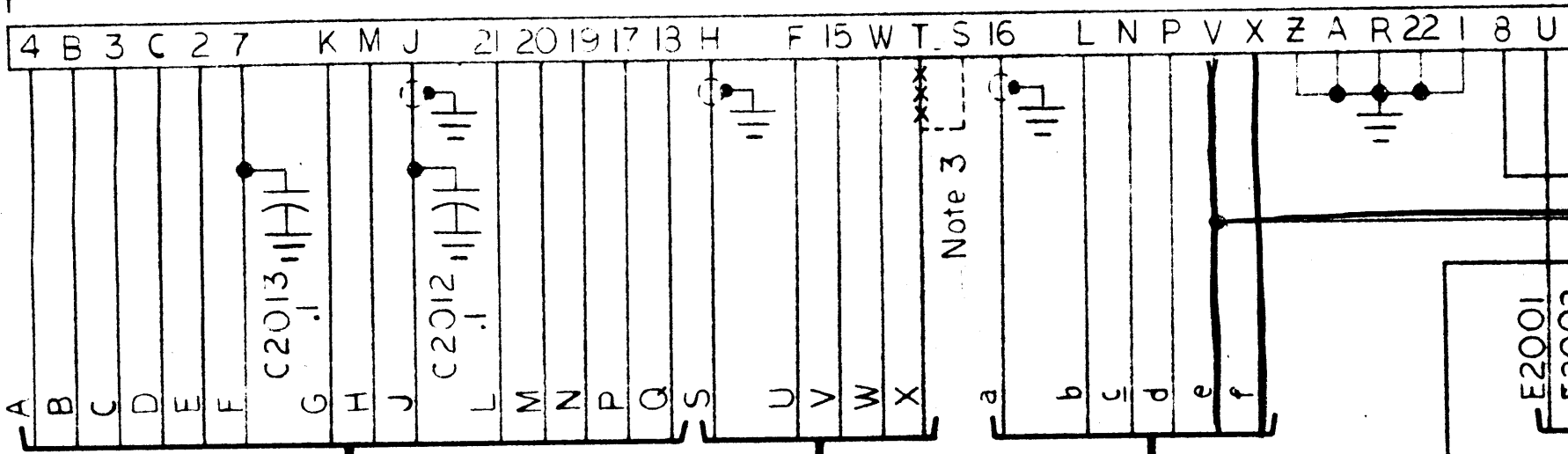
TEST KEY
S2001

TEST
AUDIO
J2005

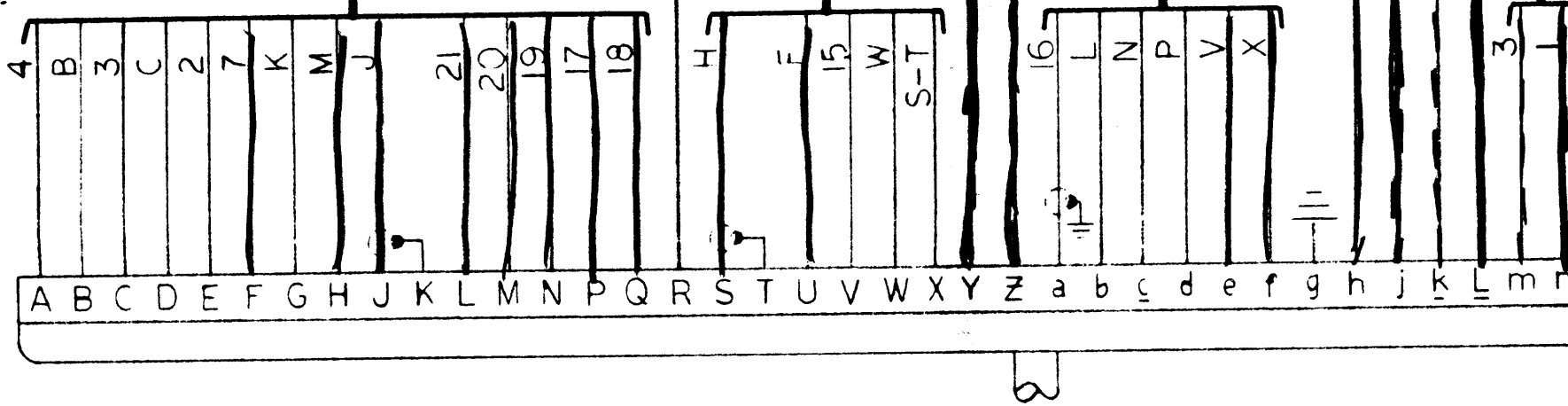


XA2001 CONNECTED
AS SHOWN ABOVE.

Note 1
XA2001



J2001
P912



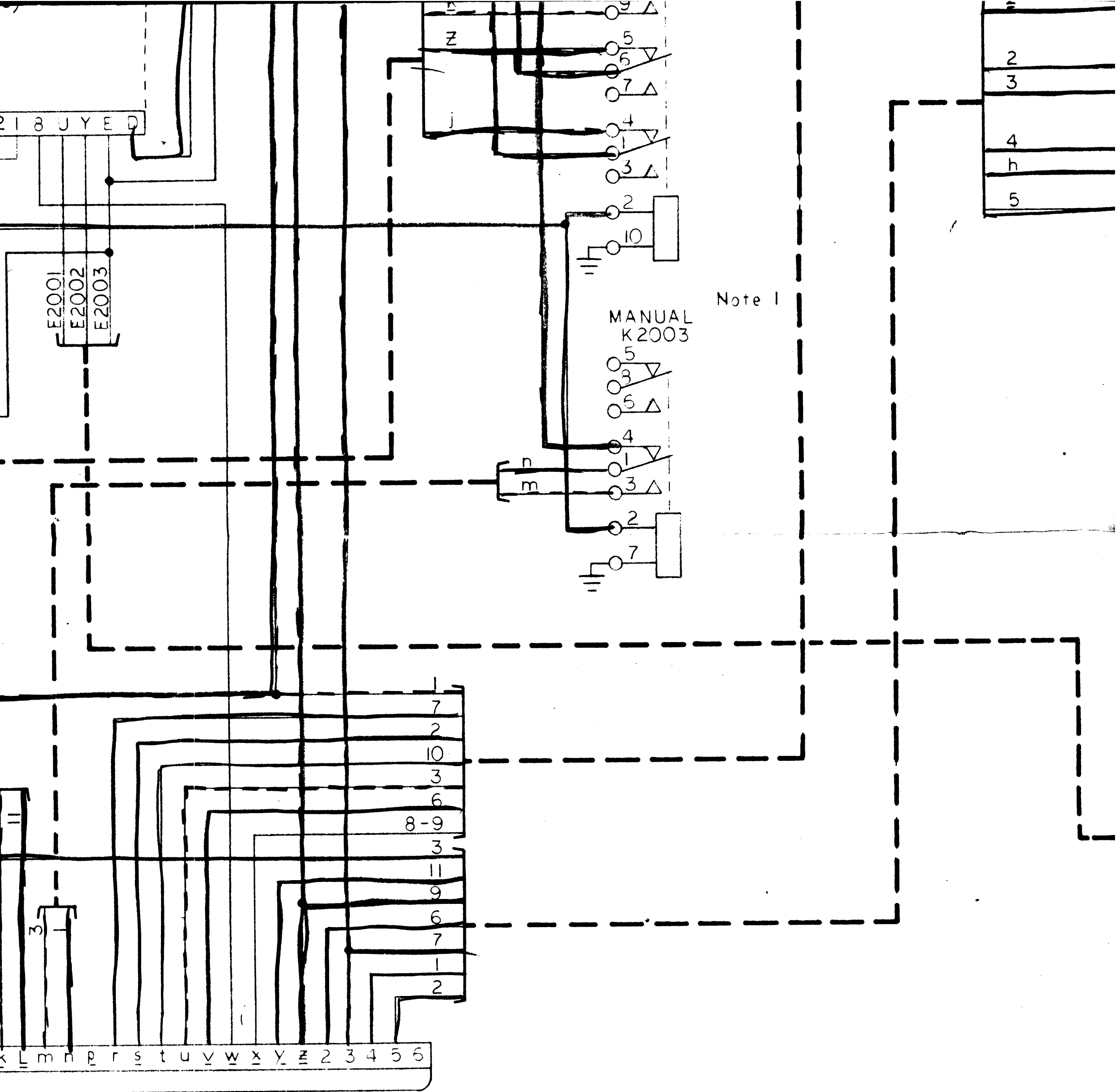
SEE CK1946 FOR CONNECTIONS

LAST SYMBOLS	MISSING SYMBOLS	
A2002	S2001	
B2001	TB2001	
C2013	XA2002	
E2005	XK2005	E2007
J2005		
K2005		
L2001		
P2005		
R2002		

Note 1. FOR MANUAL XMTR, A2001, A2002, K2001, K2002, K2003 ARE NOT TO BE INSTALLED. XA2001 JUMPERS INSTALLED.

Note 2. A2002 SHOWN JUMPED FOR SME INSTALLATION. JUMPER CHANNEL TO APPROPRIATE CHANNEL FOR EXTERNAL EXCITER INS NOT SUPPLIED.

Note 3. WHEN XMTR IS CONTROLLED BY REMOTE UNIT, A4863/PC585 AS A2001, REMOVE CONNECTIONS TO MAKE CONNECTIONS MARKED.



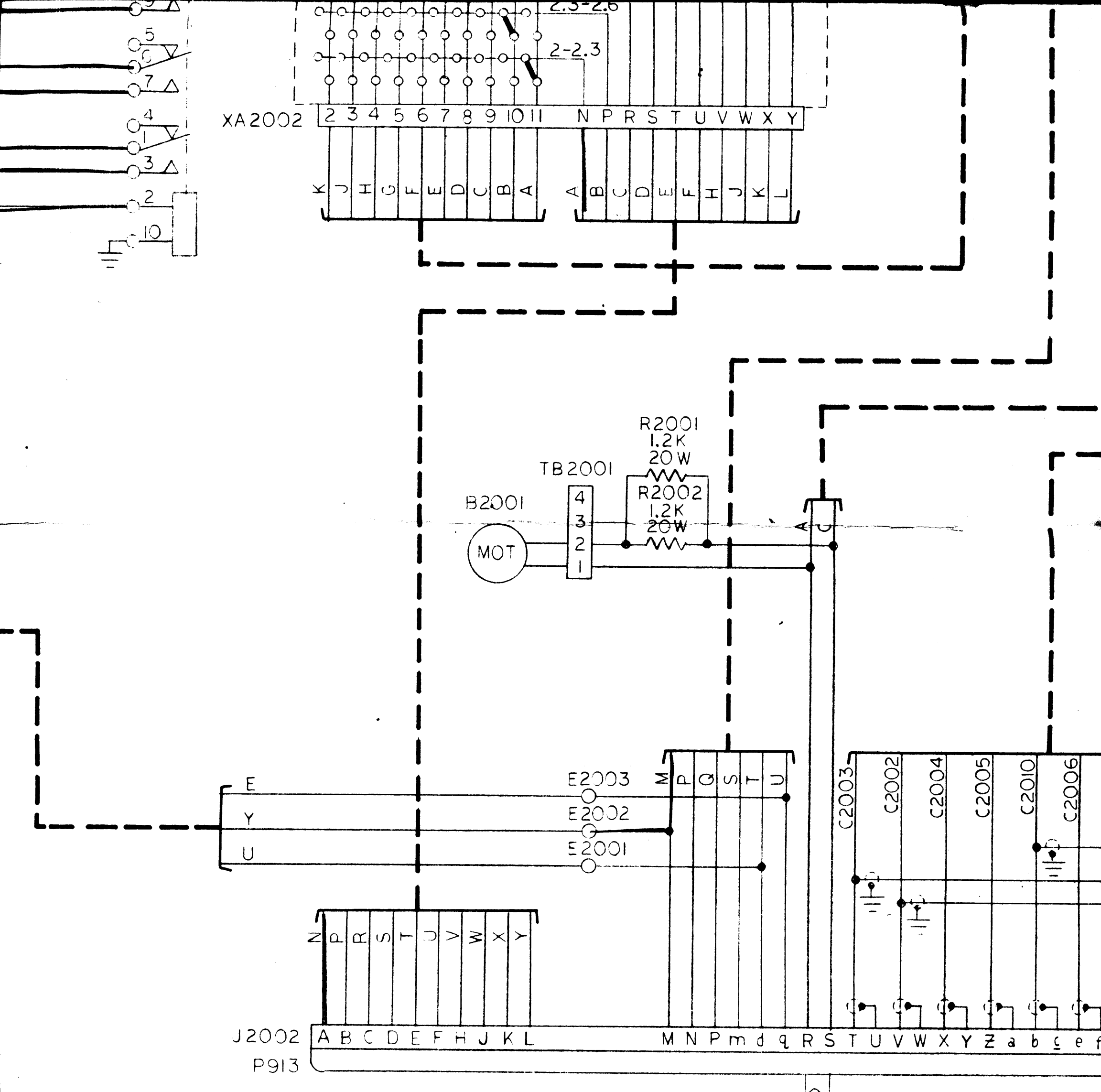
Note 1

Note 4. UNLESS OTHERWISE SPECIFIED:
 ALL RESISTANCE VALUES IN OHMS.
 ALL CAPACITANCE VALUES IN MICROFARADS.
 ALL INDUCTANCE VALUES IN MILLIHENRIES.

A2001, A2002, C2012, C2013,
 ARE NOT INSTALLED.
 INSTALLED AS SHOWN.

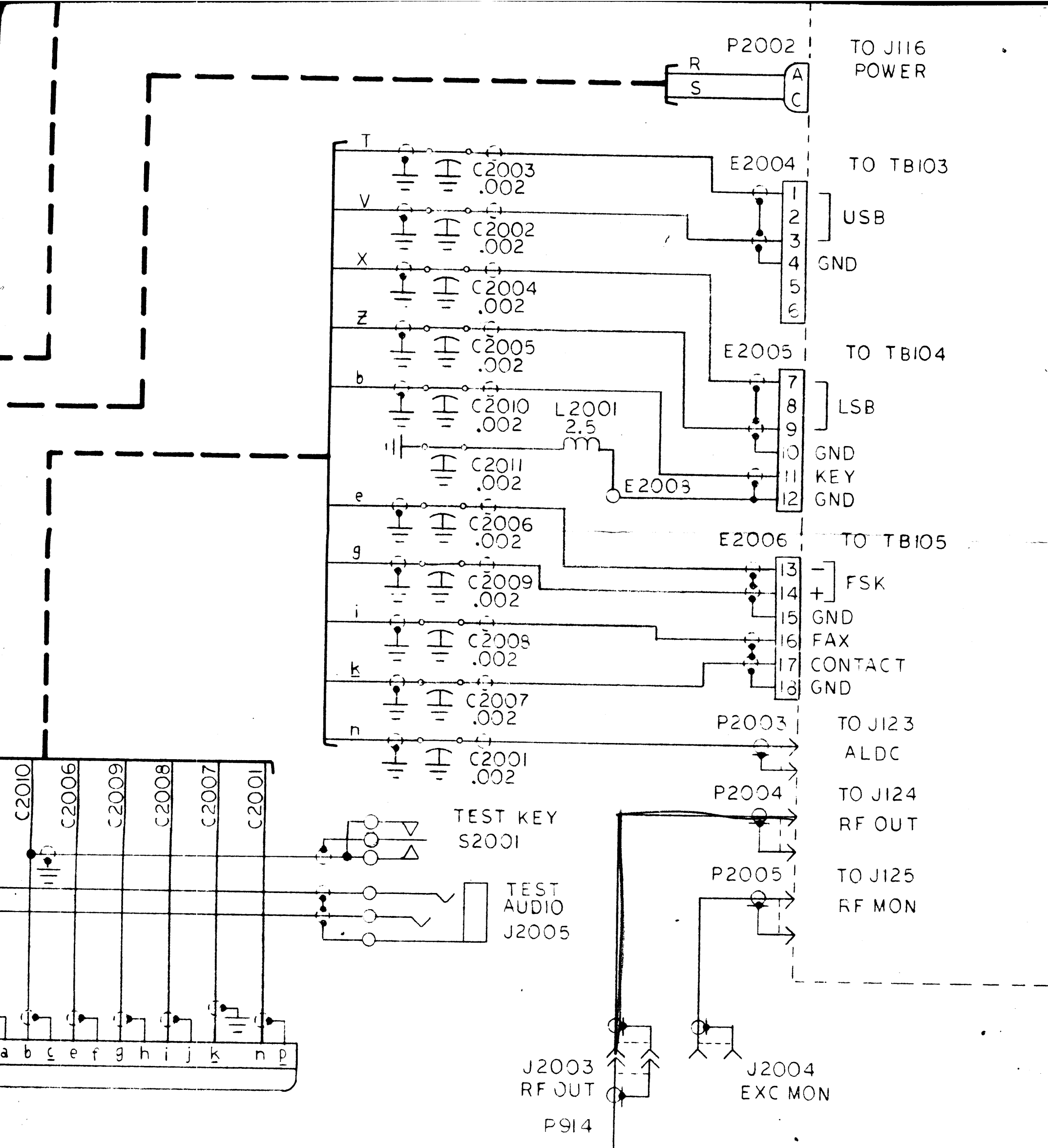
ED FOR MMX INSTALLATION.
 ON JUMP APPROPRIATE
 PRIATE BAND.
 TER INSTALLATION, A2002

ROLLED BY A LRCA-2
 /PC585 REPLACES A4834/PC573
 ONNECTIONS MARKED *** AND
 MARKED ----.



REVISIONS							
ZONE	LTR	DESCRIPTION	DATE	E.M.N.NO	DRAFT	CHKD	APPD
	Ø		9-16-72		EP		

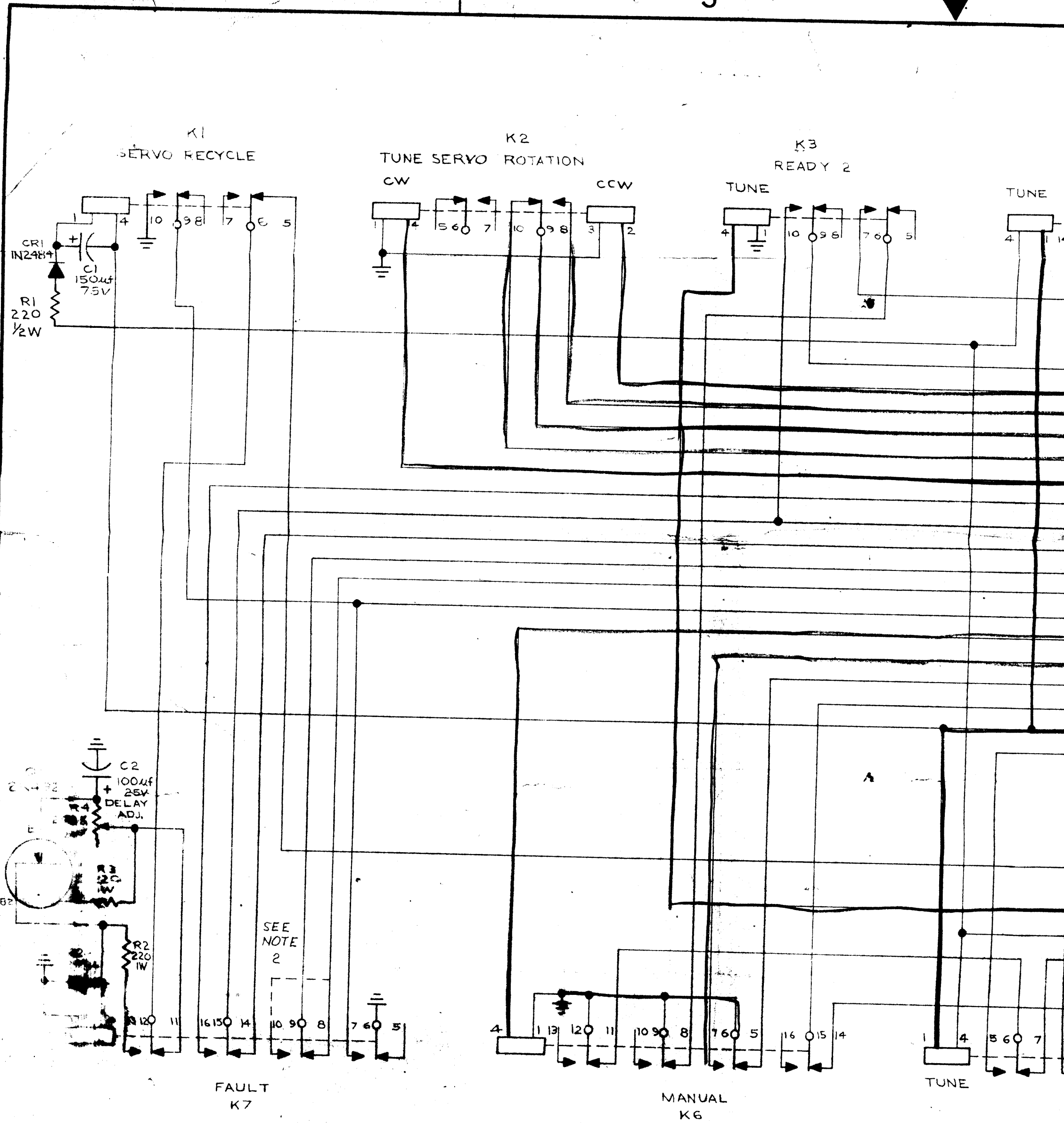
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FINAL APPROVAL <i>[Signature]</i>	DATE 15 SEP 72
MECH DES	DATE
ELECT. DES <i>[Signature]</i>	DATE 10 SEP 72
CHECKED	DATE
DRAWN <i>[Signature]</i>	DATE 13 SEP 72

Figure 7-3. Schematic Diagram, HFL()-10K Exciter Drawer



SEE NOTE 2

NOTES:

- 1. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. PREFIX THE PART DESIGNATION WITH THE SUB-ASSEMBLY DESIGNATION.
- 2. DOTTED LINE SHOWS ONLY WIRING DIFFERENCE BETWEEN A4B34 & A4B63. A4B63 BEING CONFIGURED AS SHOWN WITH THE DOTTED LINE.

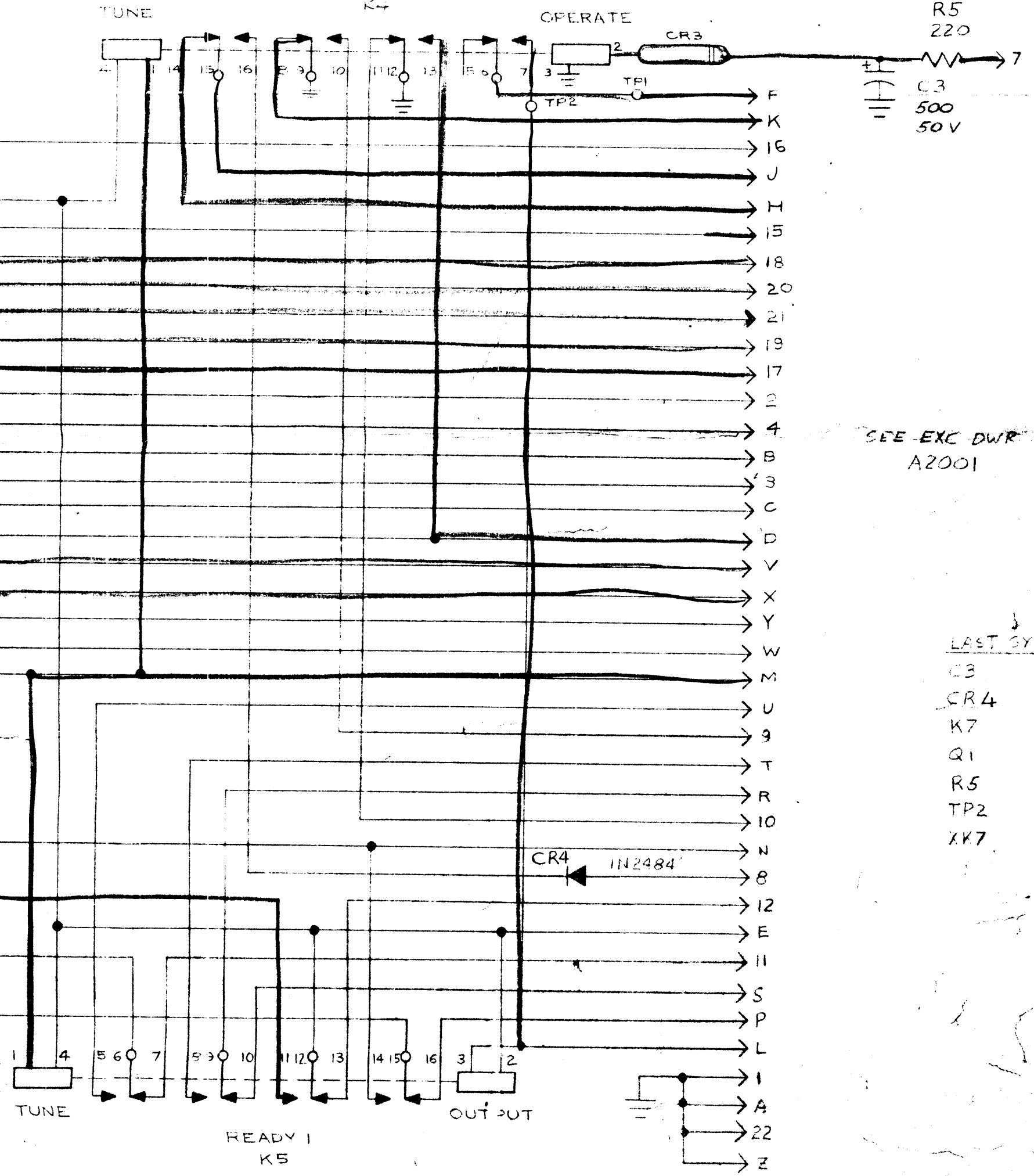
	4FTA-10KJB	AX 5110
QTY / UNIT	MODEL USED ON	ASS'Y NO.
APPLICATION		
	CODE	

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UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICAL AND/OR PLATED FINISH.	
TOLERANCES	
DECIMALS	FR.
.X ± .05	
.XX ± .01	
.XXX ± .005	
MATERIAL	
FINISH	

					REVISIONS		
E.M.N.NO	DRAFT	CHKD	ZONE	LTR	DESCRIPTION	DATE	APPROVED
	RD			X	EA...	5 MAR 70	
				Y	ORIGINAL RELEASE FOR PRODUCTION	5/5/70	
	R1	W		A	ADD. DOTTED LINE & NOTE 2	1-20-71	J.E.A.
				B	LAST SWITCH CHG. CR3 TO CR4	10/3/72	EJ

SERVO TUNING COMPLETE
K4



SEE EXC DWR SCHEM
A2001

- LAST SYMBOLS
- CR3
 - CR4
 - K7
 - Q1
 - R5
 - TP2
 - XX7

(A4834/PC573) (A4863/PC585)

QTY. REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
BUDETTI LIST OF MATERIAL				

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES	
TOLERANCES ON	
DECIMALS	FRACTIONS
X ± .05	± 1/64
XX ± .01	ANGLES
.XXX ± .005	± 0° -30'
MATERIAL	
FINISH	

FINAL APPROVAL	DATE
MECH. DES.	DATE
ELECT. DES.	DATE
CHECKED	DATE
DRAWN	DATE

Figure 7-4. Schematic Diagram, HFL(-)10K Tuning Control Board

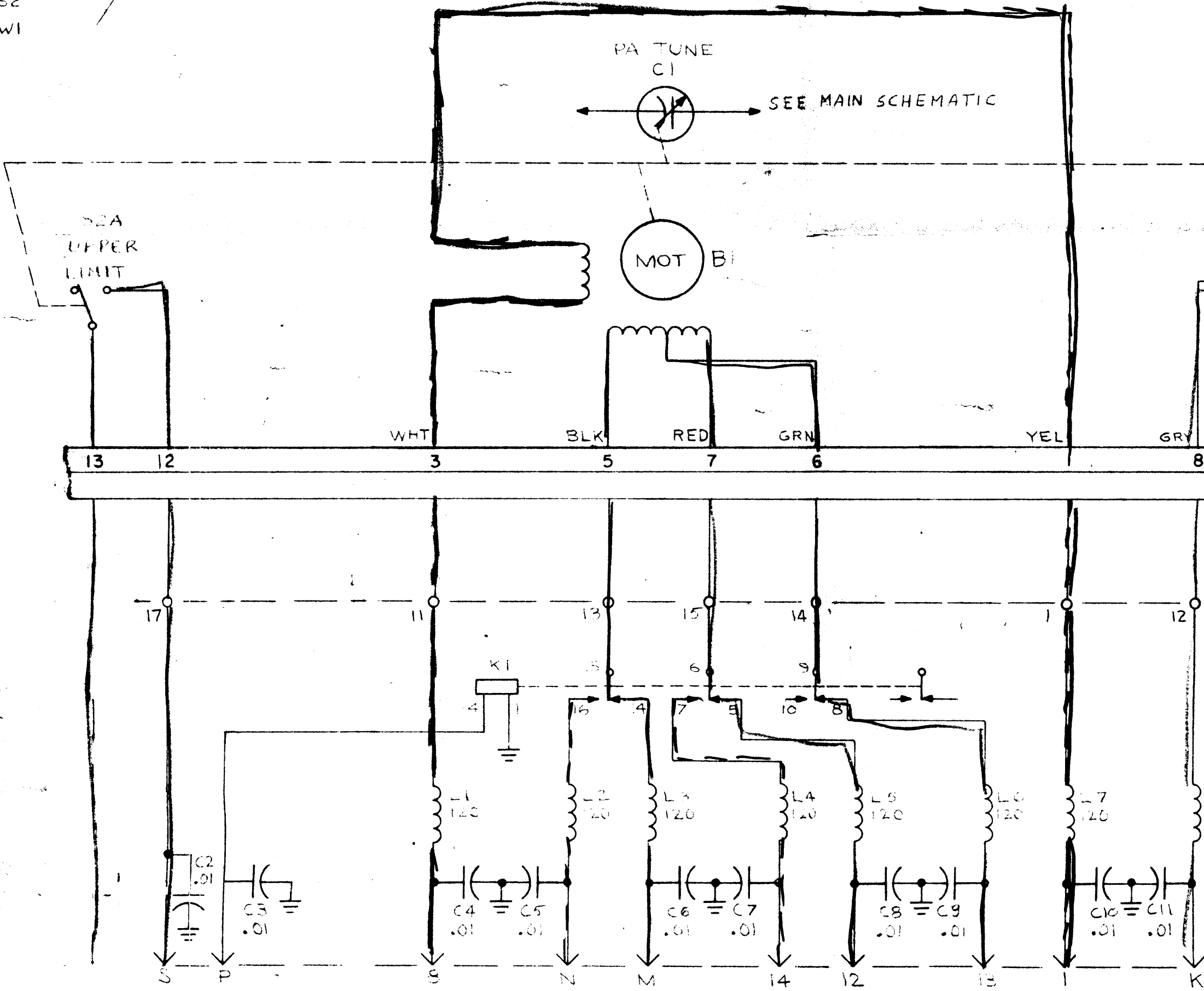
7-23/7-24

CK1756



LITERATURE SYMBOLS

- A
- AIC20
- AIE17
- AIKI
- AII13
- AIXKI
- BI
- CI
- J1
- PI
- S2
- WI



SEE MAIN SCHEMATIC A702

REFERENCE DESIGNATIONS SHOWN,
 COMPLETE DESIGNATION PREFIX WITH
 SUB-ASSEMBLY DESIGNATION.
 DIMENSIONS ARE IN INCHES.
 DIMENSIONS ARE IN MILLIMETERS.

UNLESS OTHERWISE SPECIFIED,
 DIMENSIONS ARE IN INCHES
 AND INCLUDE CHEMICAL
 OR PLATED FINISH

TOLERANCES ON DIMENSIONS
 DECIMALS .X ± .05
 .XX ± .01
 .XXX ± .005

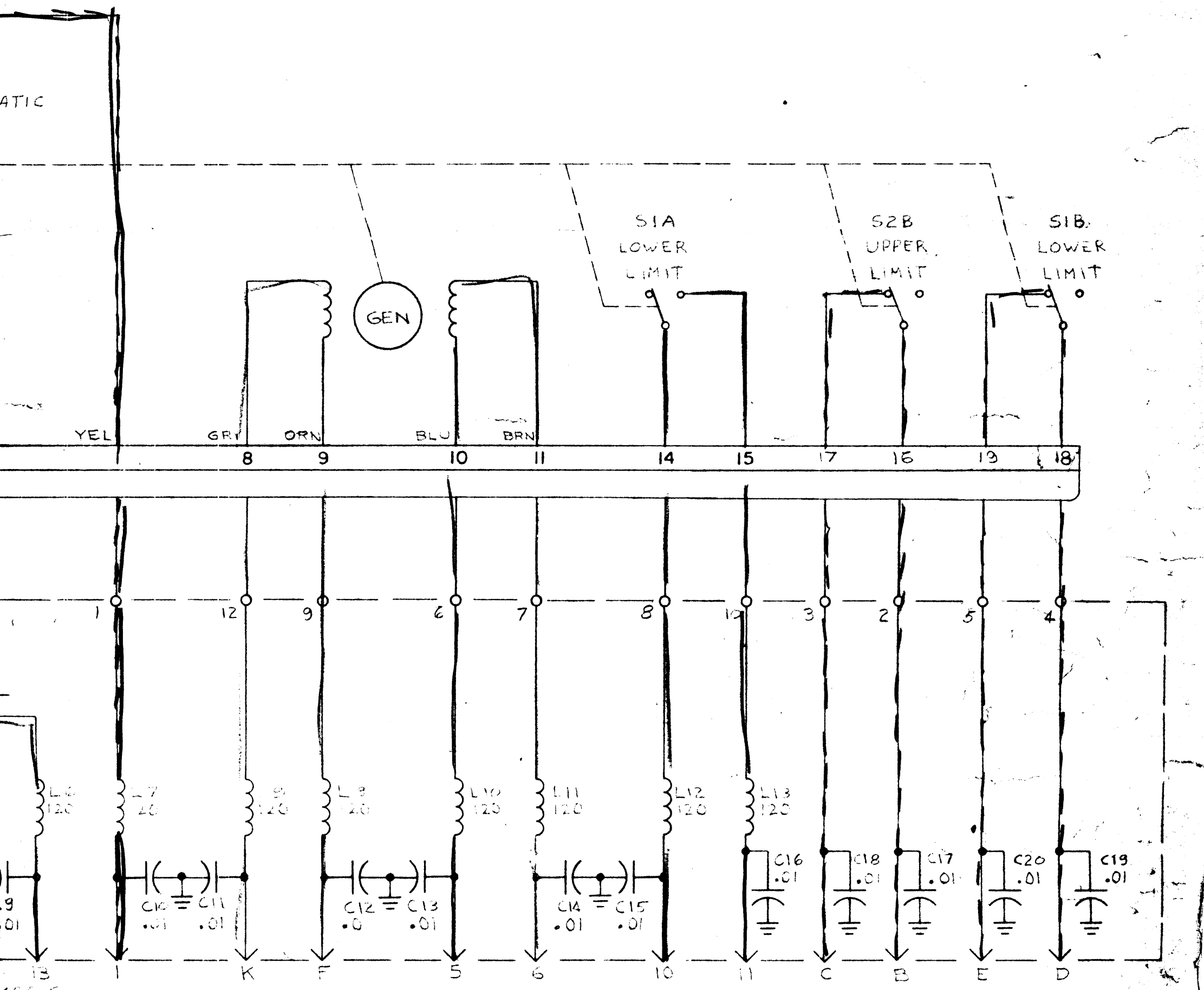
	HFLA-10K/REVA	AX5171
	HFLA-10K	AX5114
QTY / UNIT	MODEL USED ON	ASS'Y NO.
APPLICATION		
	CODE	

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MATERIAL

FINISH

					REVISIONS		
E.M.N.NO	DRAFT	CHKD	ZONE	LTR	DESCRIPTION	DATE	APPROVED
	RD			X	EXP RELEASE		
	<i>W</i>			<i>M</i>	SIZE DESIGN IT WAS REWARD	7/6/70	<i>M</i>
	<i>W</i>			<i>Ø</i>	ORIGINAL RELEASE FOR PRODUCTION	8/1/70	
20875	GE	EJ		A	ADD HFL()-10K/REV A TO M/L/D CHART	9/25/72	<i>EJ</i>



QTY. REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
LIST OF MATERIAL				

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES	FINAL APPROVAL	DATE
	MECH. DES.	DATE
	ELECT. DES.	DATE
	CHECKED	DATE
TOLERANCES ON DECIMALS .X ± .05 .XX ± .01 .XXX ± .005 FRACTIONS ± 1/64 ANGLES ± 0° -30'	DRAWN	DATE
	MATERIAL	
FINISH		

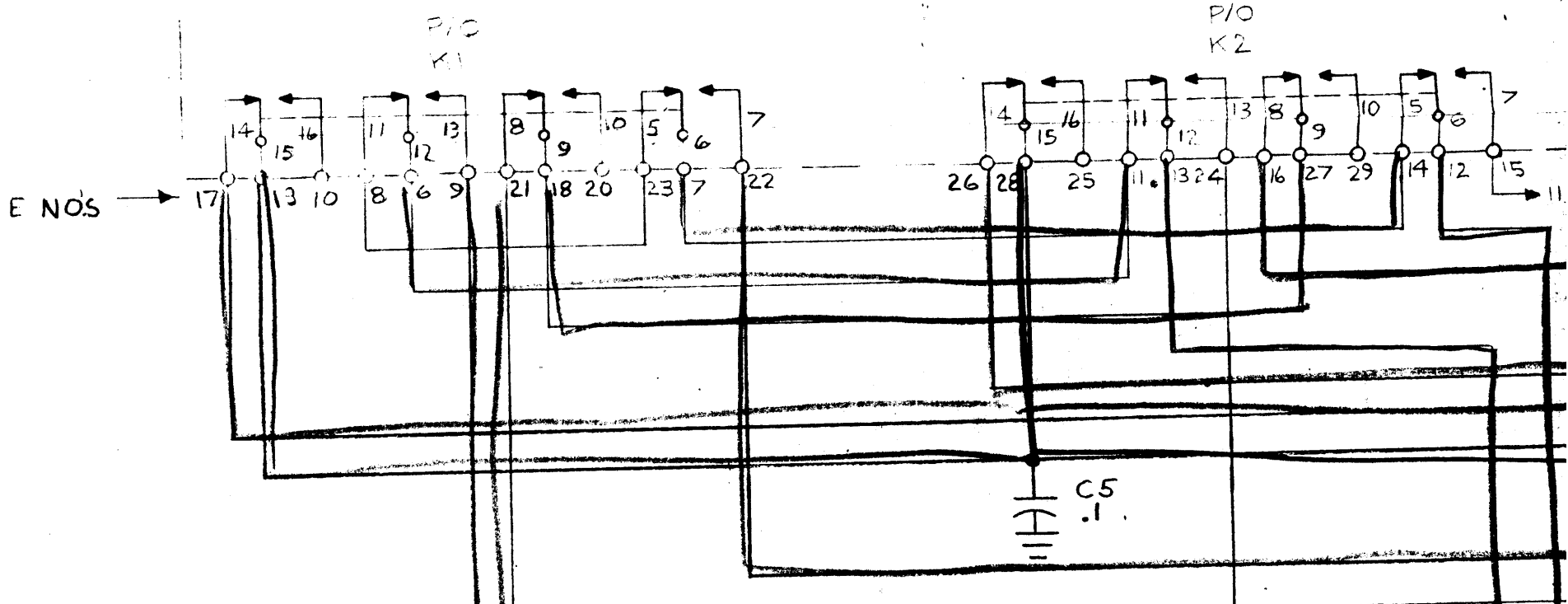
THE TECHNICAL MATERIEL CORP.
MAMARONECK, NEW YORK

Figure 7-5. Schematic Diagram, HFL()-10K Tune Capacitor Assembly

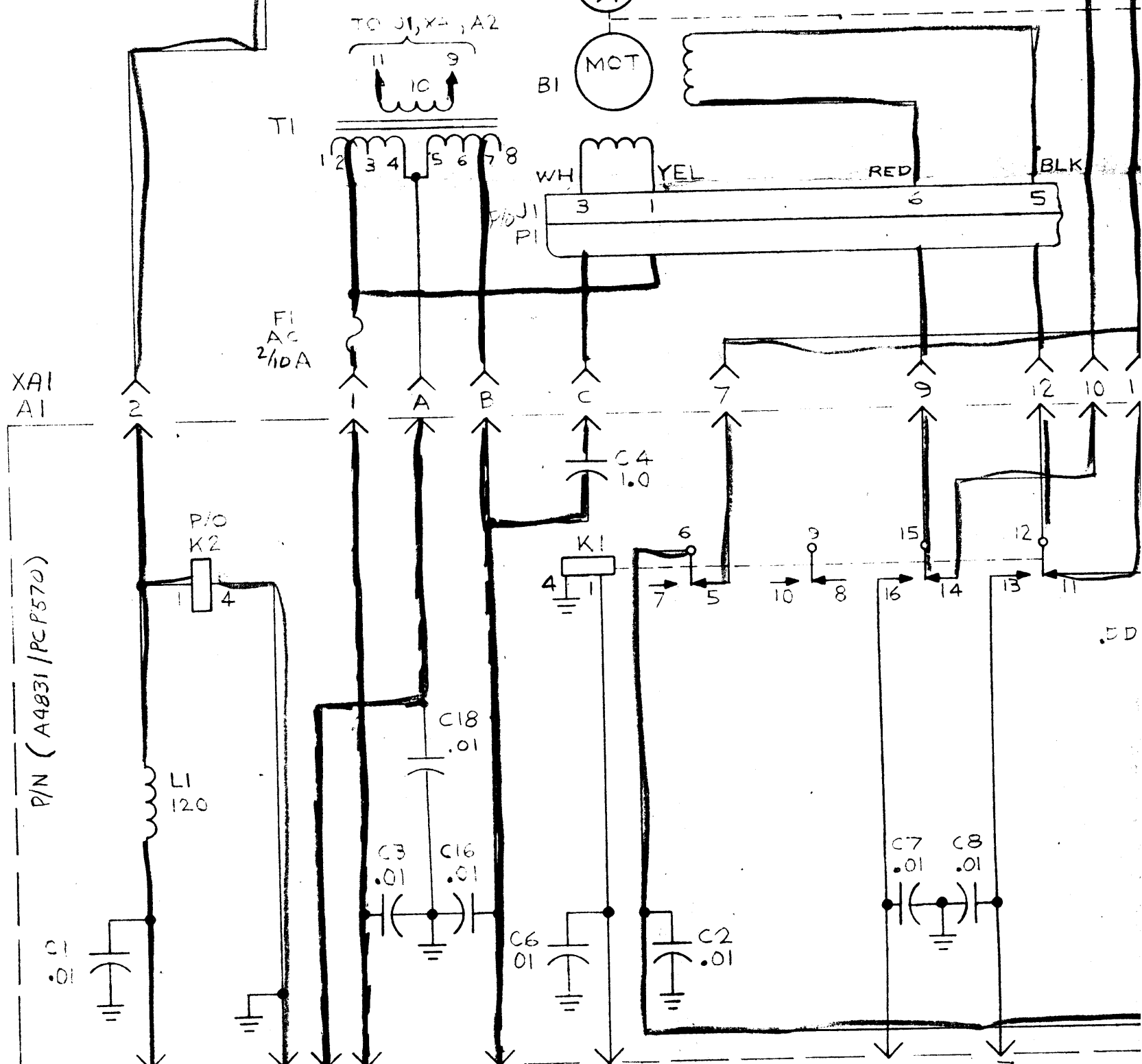
7-25/7-26

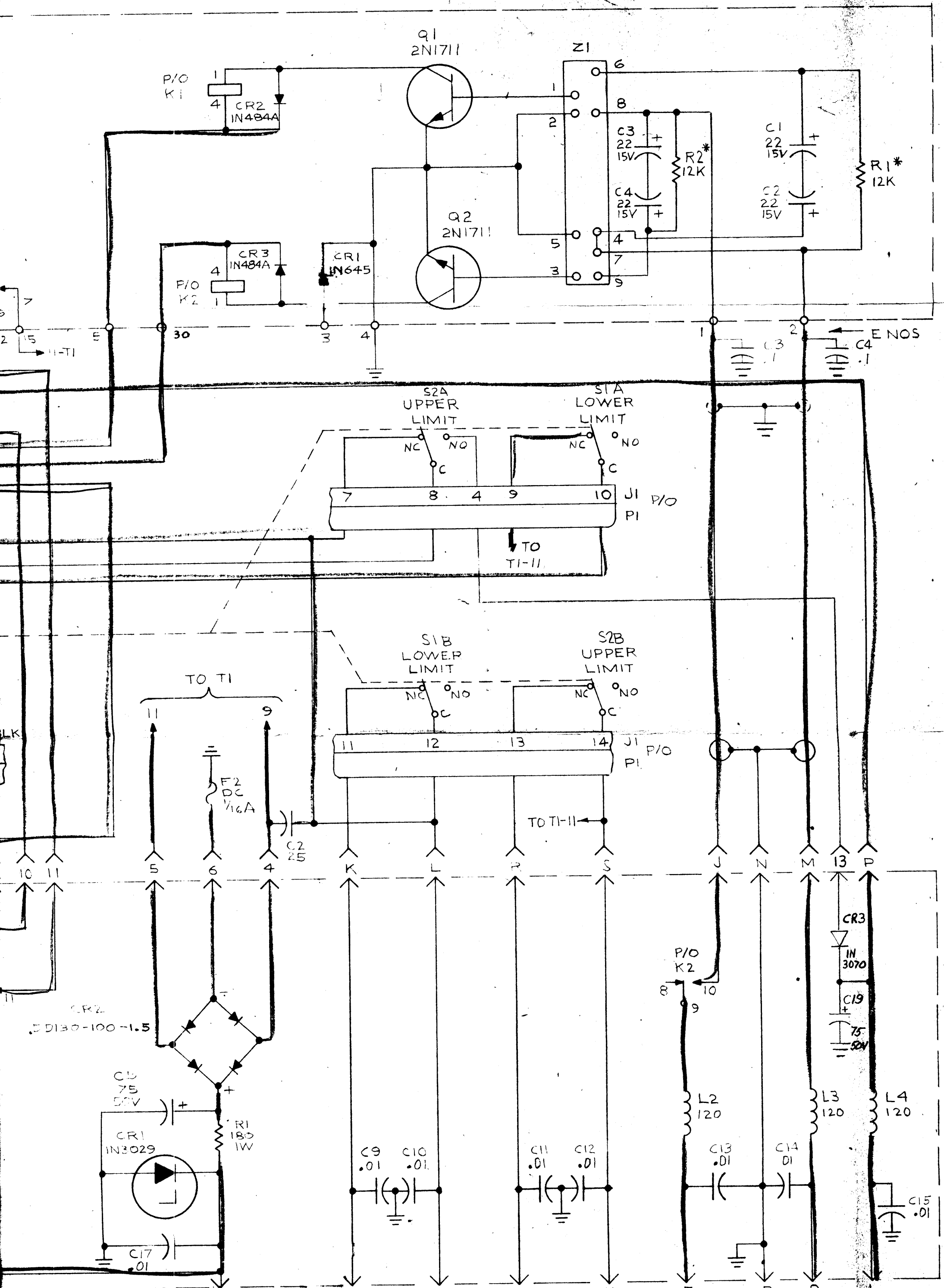
A2

P/N (AZ117)



LA LOAD SEE MAIN SCHEMATIC





					REVISIONS		
E.M.N.NO	DRAFT	CHKD	ZONE	LTR	DESCRIPTION	DATE	APPROVED
	KD			X		10/3/69	
	DM	DM		X	ADD C2,4,5	1/5/70	DM
	W			Ø		8/5/70	
20876	GE	EJ		A	ADDED HFL(1)-10K/REV. A. & AX5172	9/25/70	EJ
20996	DM	DM		B	AT-7 WENT TO A2-5, ADD A2-30	1/31/73	DM

R1*
12K

* NOMINAL VALUE. ACTUAL VALUE
SET AT FACTORY DURING
CALIBRATION.

E NCS
C4
-1

P

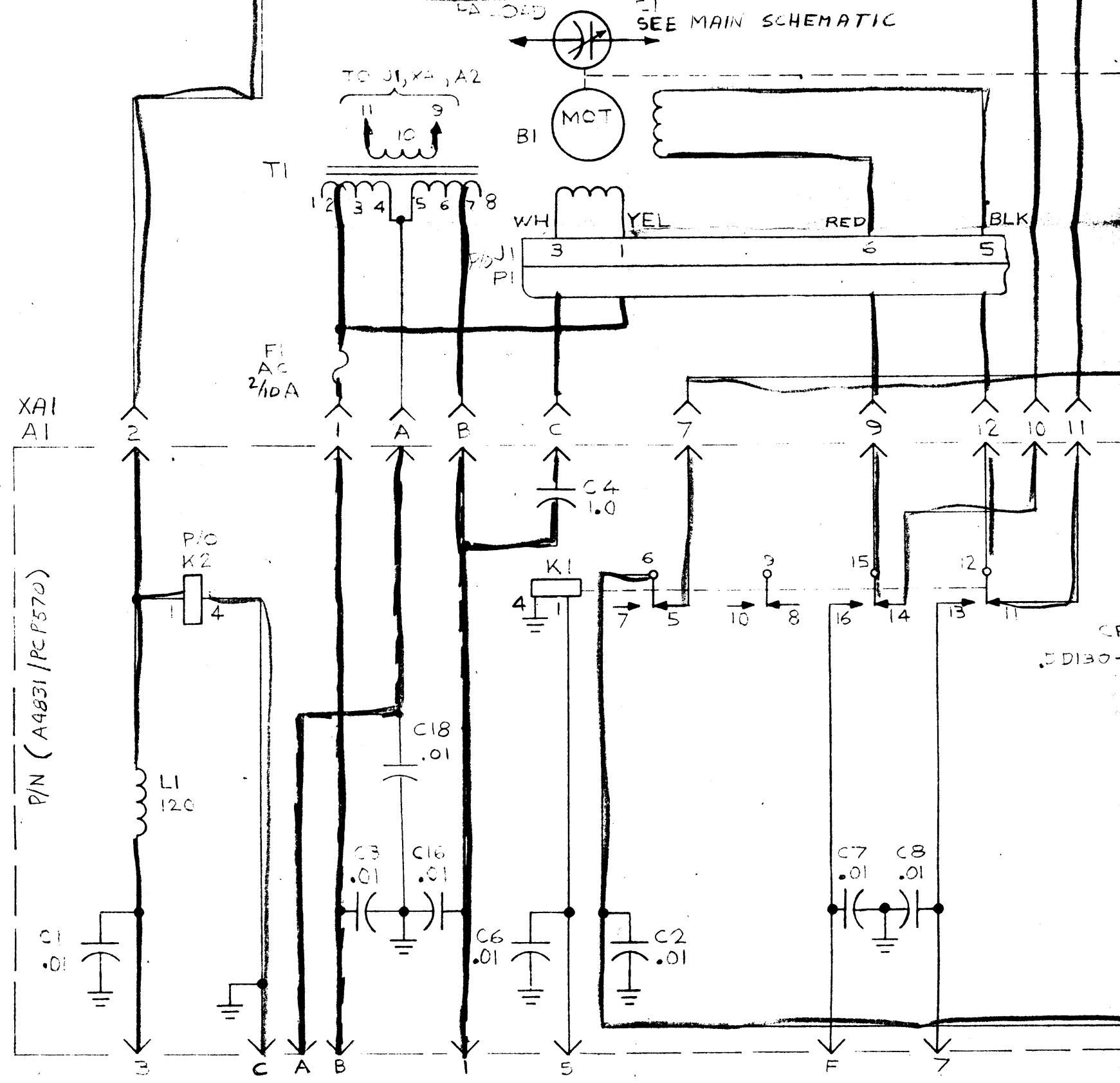
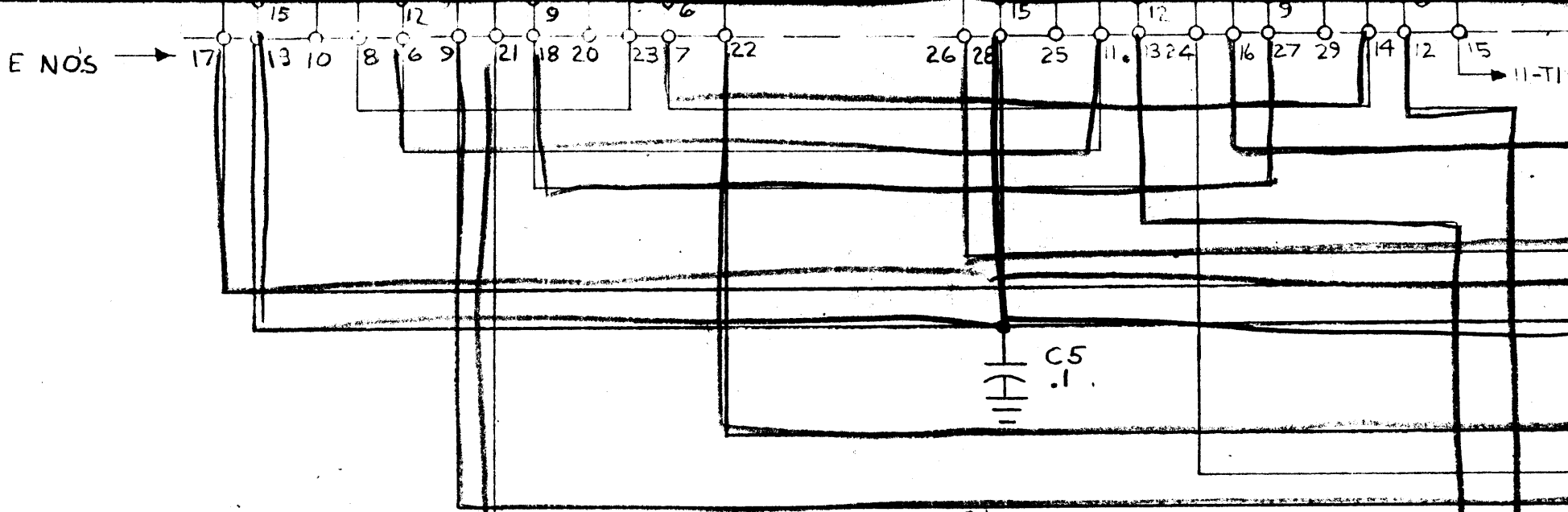
23
70
9
5
20

L4
120

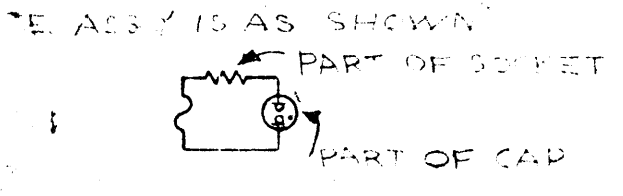
C15
.01

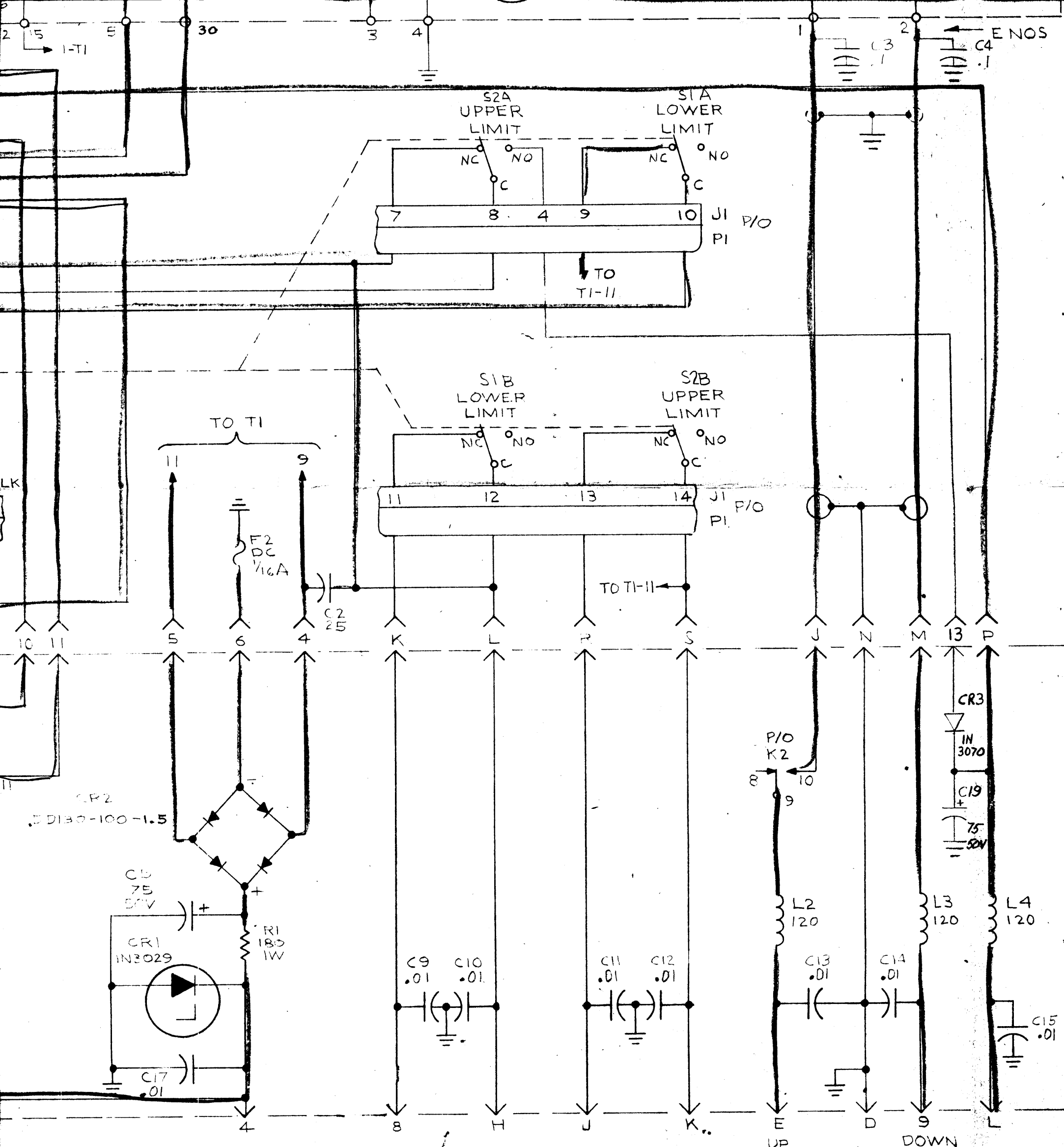
LAST SYMBOLS

A1	A2	B1
A1C19	A2C4	C5
A1CR3	A2CR3	F2
A1K2	A2E29	J1
A1L4	A2K2	P1
A1R1	A2Q2	S2
A1XK2	A2R2	T1
	A2XK2	W1
	A2Z1	XA1
		XF2



ALL DESIGNATION SHOWN. PREFIX WITH SUBASSEMBLY DESIGNATION UNLESS OTHERWISE SPECIFIED ---
 RESISTANCE VALUES ARE IN OHMS, 1/4 WATT
 CAPACITOR ARE IN μ F
 INDUCTOR ARE IN μ H





SEE MAIN SCHEMATIC
A703

REF C

UNLES
DIME
AND INCI
0

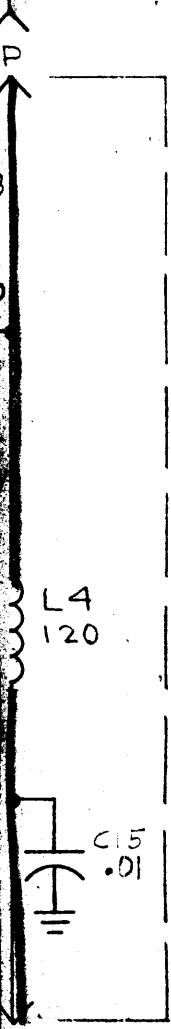
	HFL()-10K/REV A	AX5172
	HFLR-10K	AX5114
QTY / UNIT	MODEL USED ON	ASS'Y NO.
APPLICATION		
	CODE	

DECIM
.X ±
.XX ±
.XXX ±

MATERIA

FINISH

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LAST SYMBOLS		
A1	A2	B1
A1C19	A2C4	C5
A1CR3	A2CR3	F2
A1K2	A2E29	J1
A1L4	A2K2	P1
A1R1	A2Q2	S2
A1XK2	A2R2	T1
	A2XK2	W1
	A2Z1	XA1
		XF2

REF CK1752

QTY. REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
BUDETTI				
LIST OF MATERIAL				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES		FINAL APPROVAL <i>[Signature]</i>	DATE 4 Aug 70	
		MECH. DES.	DATE	
TOLERANCES ON		ELECT. DES. <i>[Signature]</i>	DATE 8 Oct 68	
DECIMALS .X ± .05 .XX ± .01 .XXX ± .005		CHECKED	DATE	
FRACTIONS ± 1/64 ANGLES ± 0° -30'		DRAWN Deierlein	DATE 10/3/69	
MATERIAL				
FINISH				

Figure 7-6. Schematic Diagram, HFL()-10K Load Capacitor Assembly

22
14
BY NO.
and hereon.
used or used
OPERATION

DRIVE
SIA FRONT

CONTROL
SIB FRONT

SIB REAR

F1
2A.

A E10 E11 E12 E9 E5 E6 E7 E8 E14 E17 E15 E16

CR5
1N538

SEE
NOTE
4

CR1

CR2

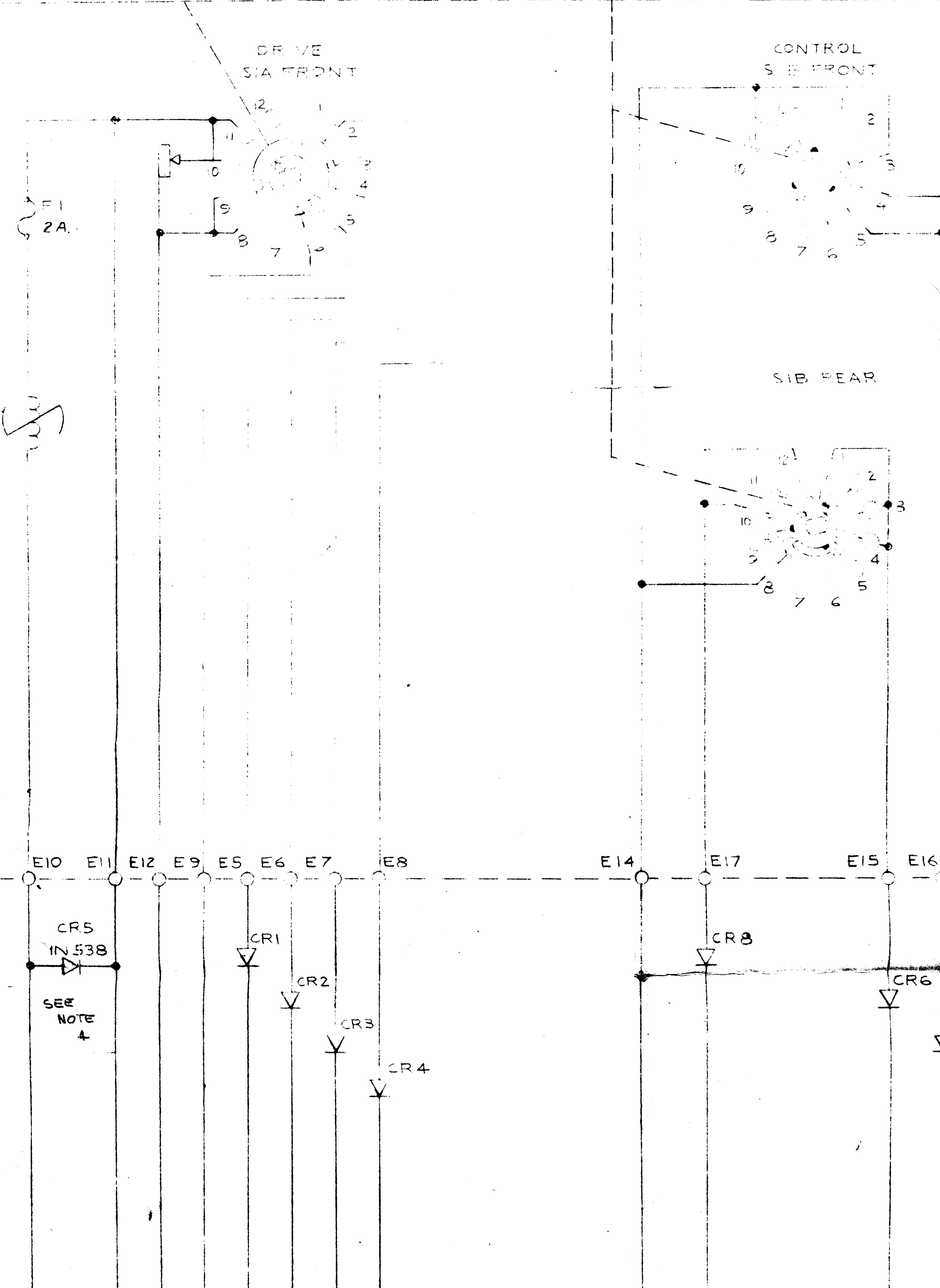
CR3

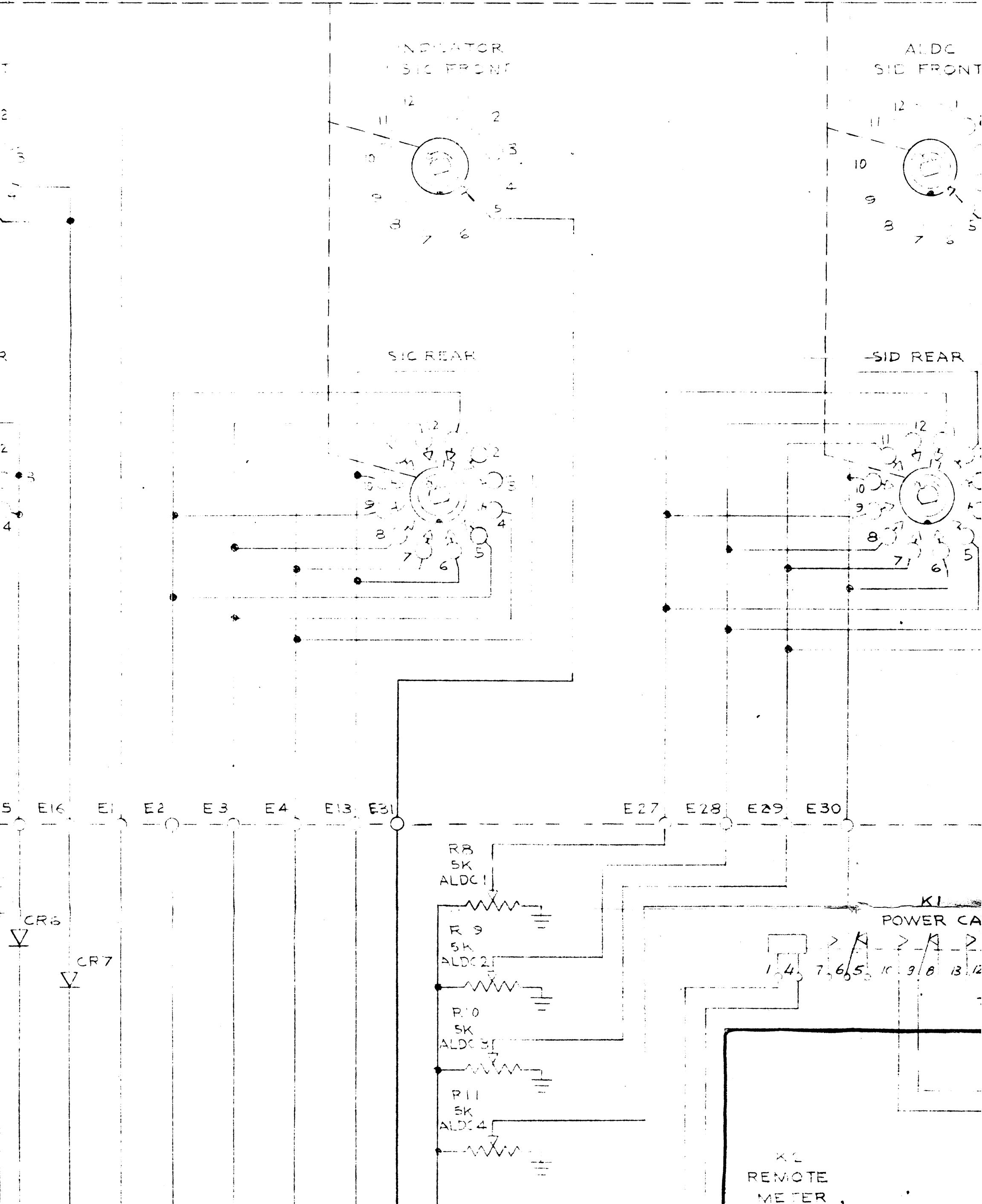
CR4

CR8

CR6

A4805/PC533

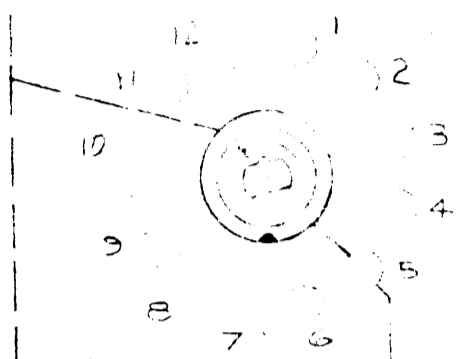




ALDC FRONT



POWER S E FRONT



SIF

12

11

10

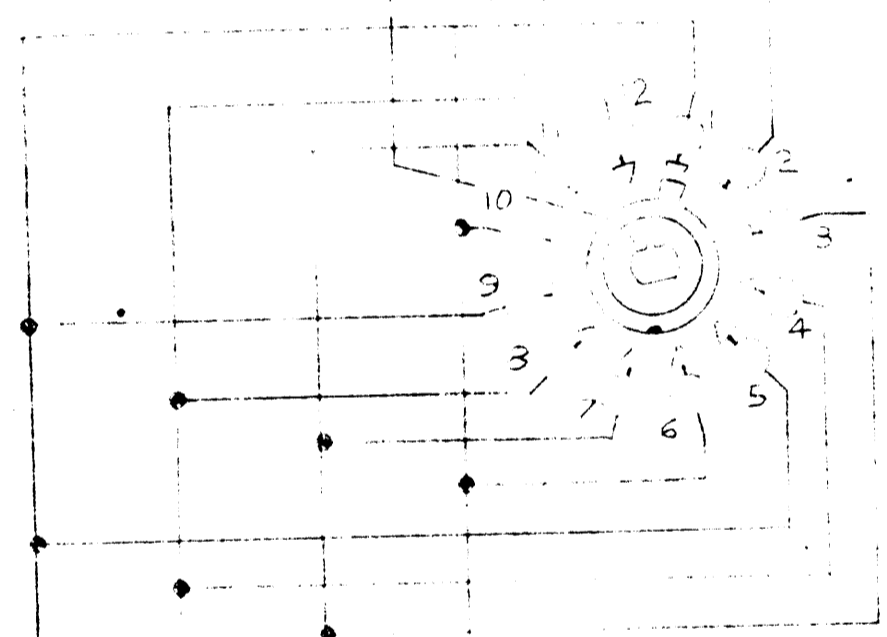
9

8

REAR



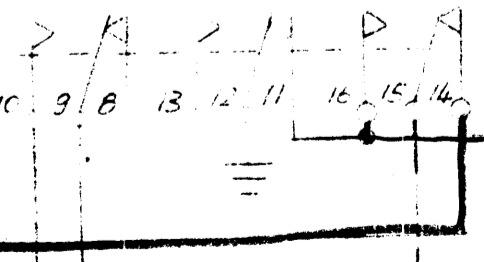
SIE REAR



SIF

E76 E18 E20 E22 E24 E32 E19 E21 E23 E25

K1 POWER CAL.



R5
50K
1/2W

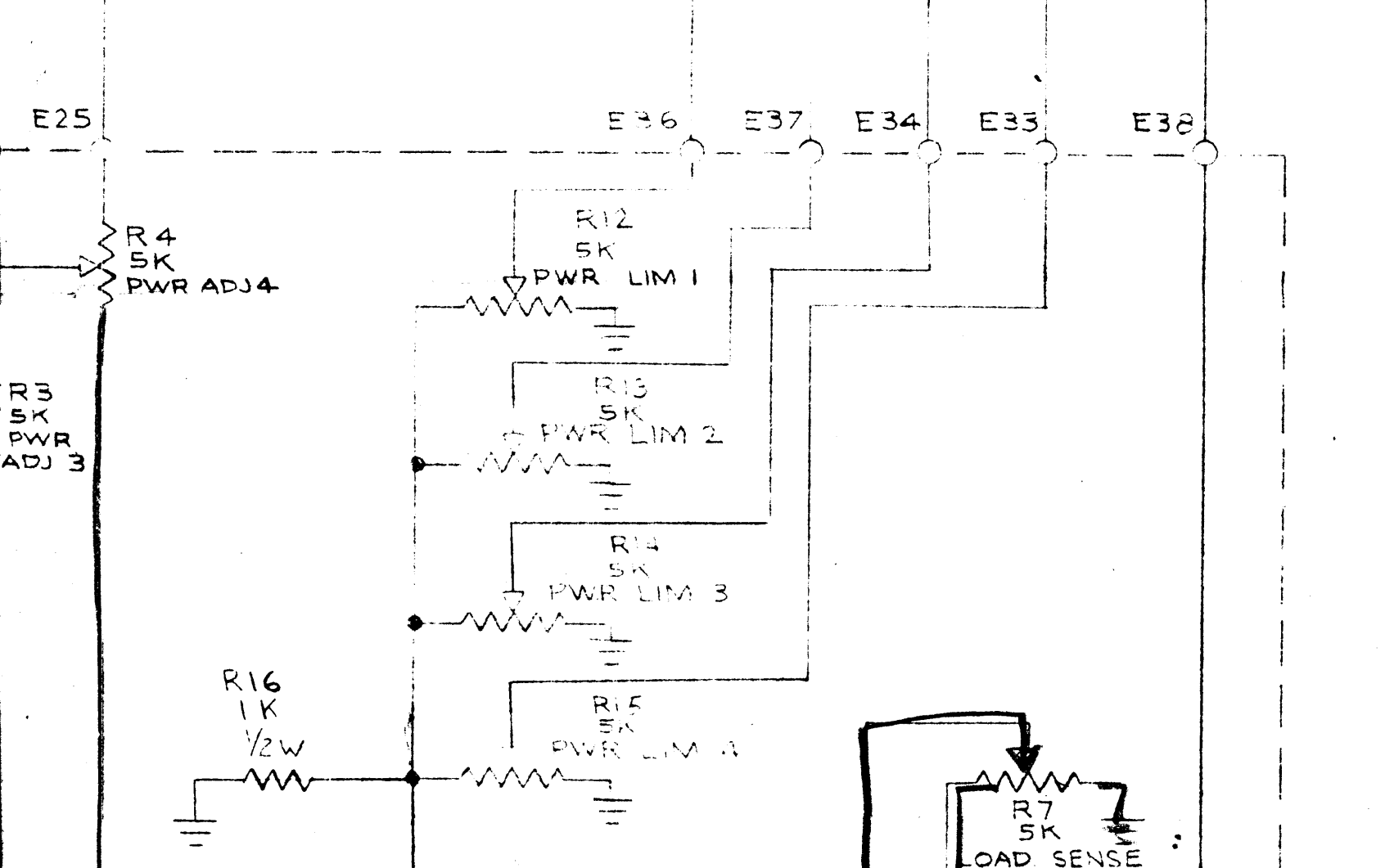
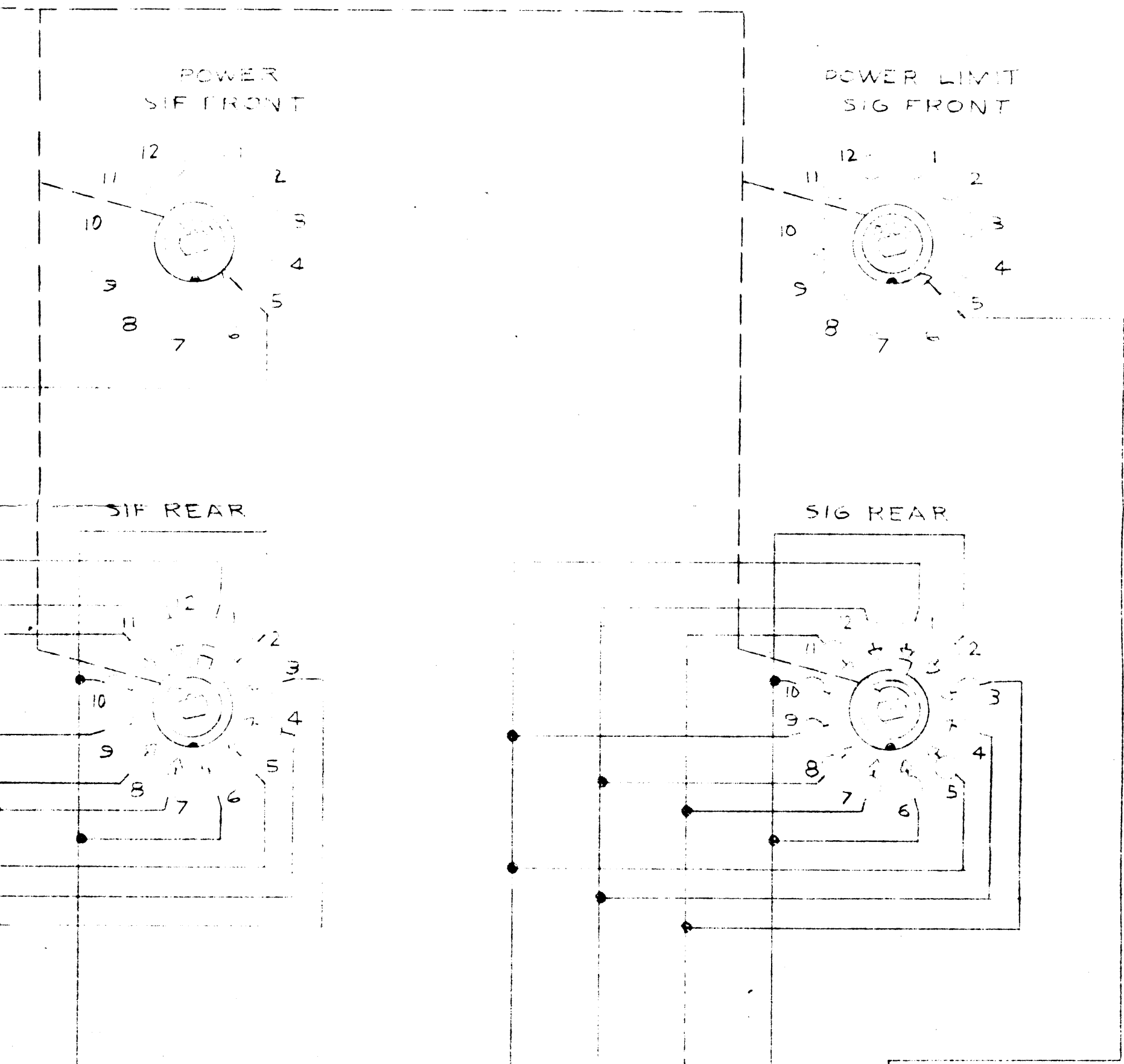
R1
5K
PWR
ADJ 1

R2
5K
PWR
ADJ 2

R3
5K
PWR
ADJ 3

R4
5K
PWR

R6

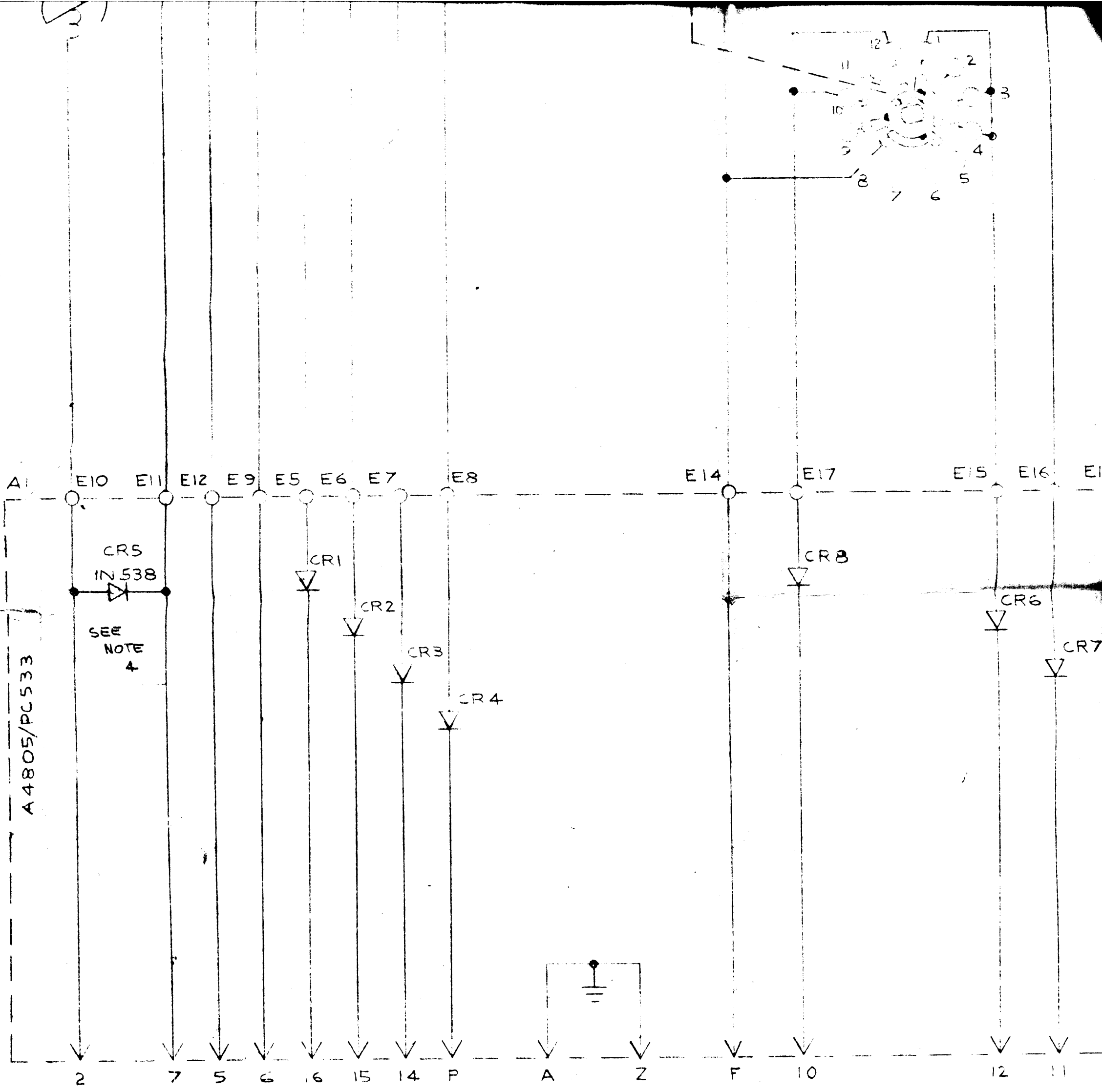


A705 LAST SYMBOLS
 AI WI
 FI XF1
 SI

A705 MISSING SYMBOLS

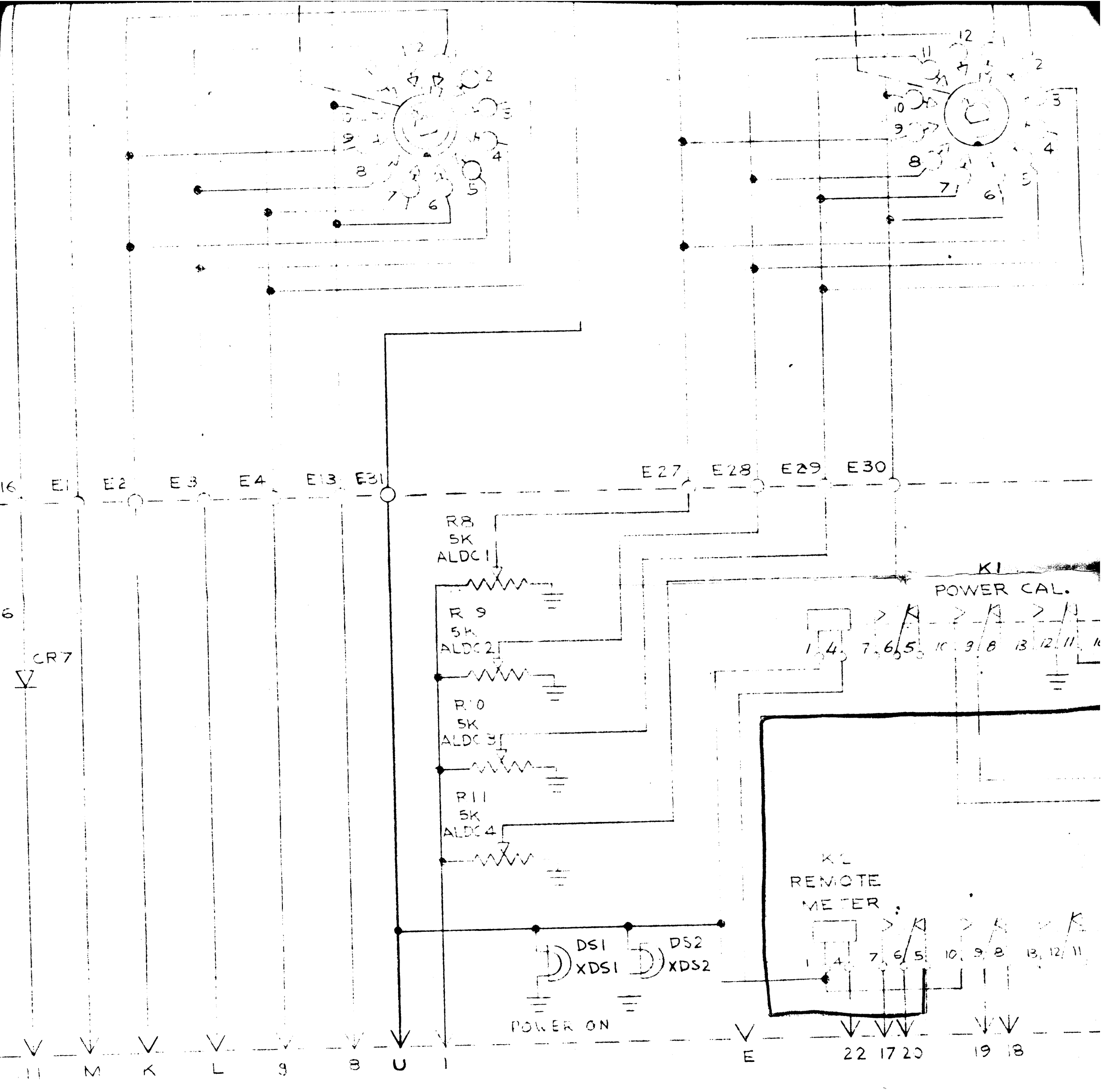
A705AI LAST SYMBOLS
 CR8 R16
 DS2 XDS2
 E38 XK2
 K2

A705AI MISSING SYMBOLS
 E35

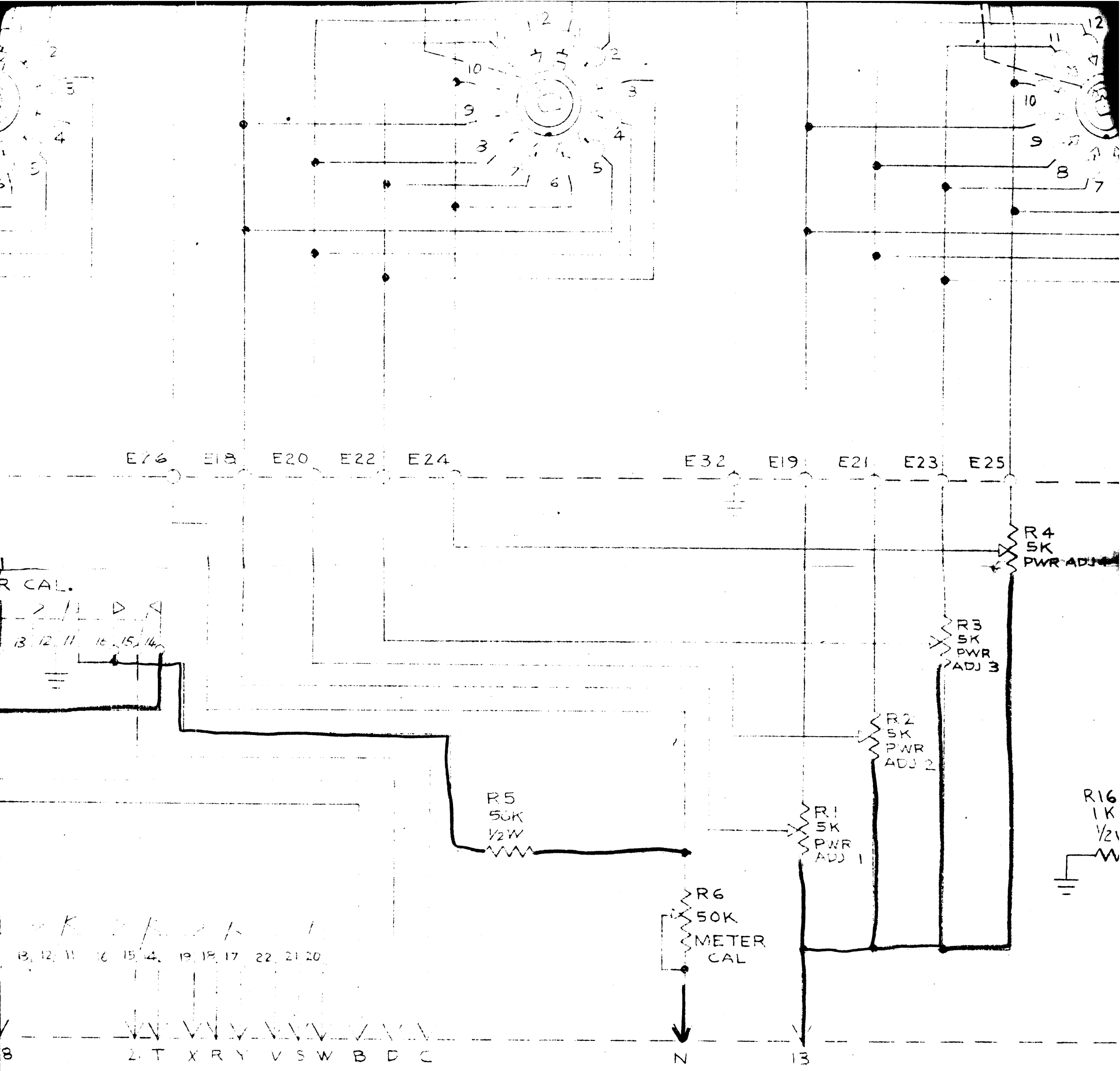


NOTE

1. CR1 THRU CR4 & CR6 THRU CR8 ARE IN 914
2. SWITCH SHOWN FROM MOTOR END, PWR POS. I.
3. PARTIAL REFERENCE DESIGNATION SHOWN, PREFIX WITH SUBASSEMBLY DESIGNATION.
4. CR5 SHOWN FOR POSITIVE VOLTAGE OPERATION. REVERSE FOR NEGATIVE VOLTAGE.



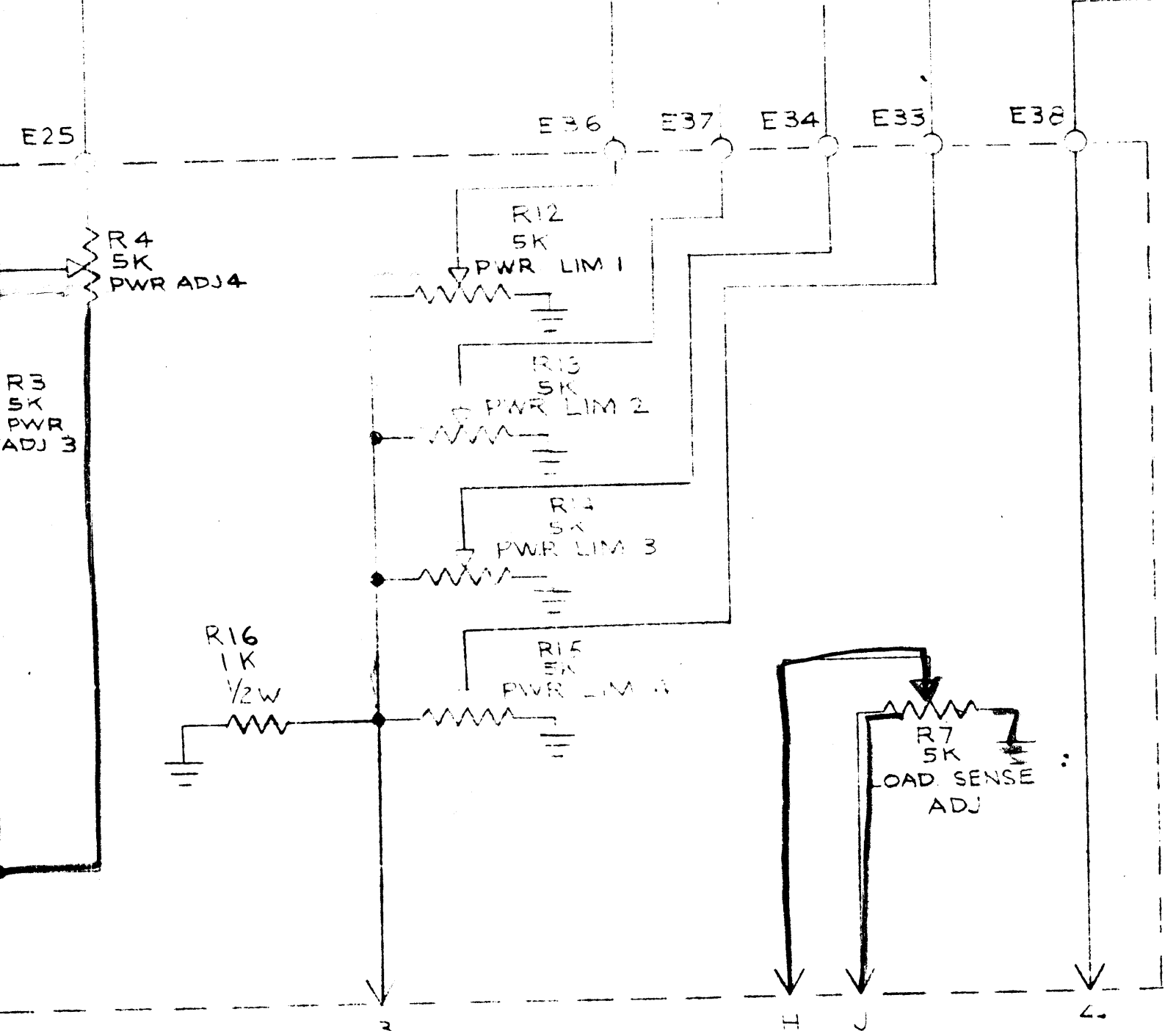
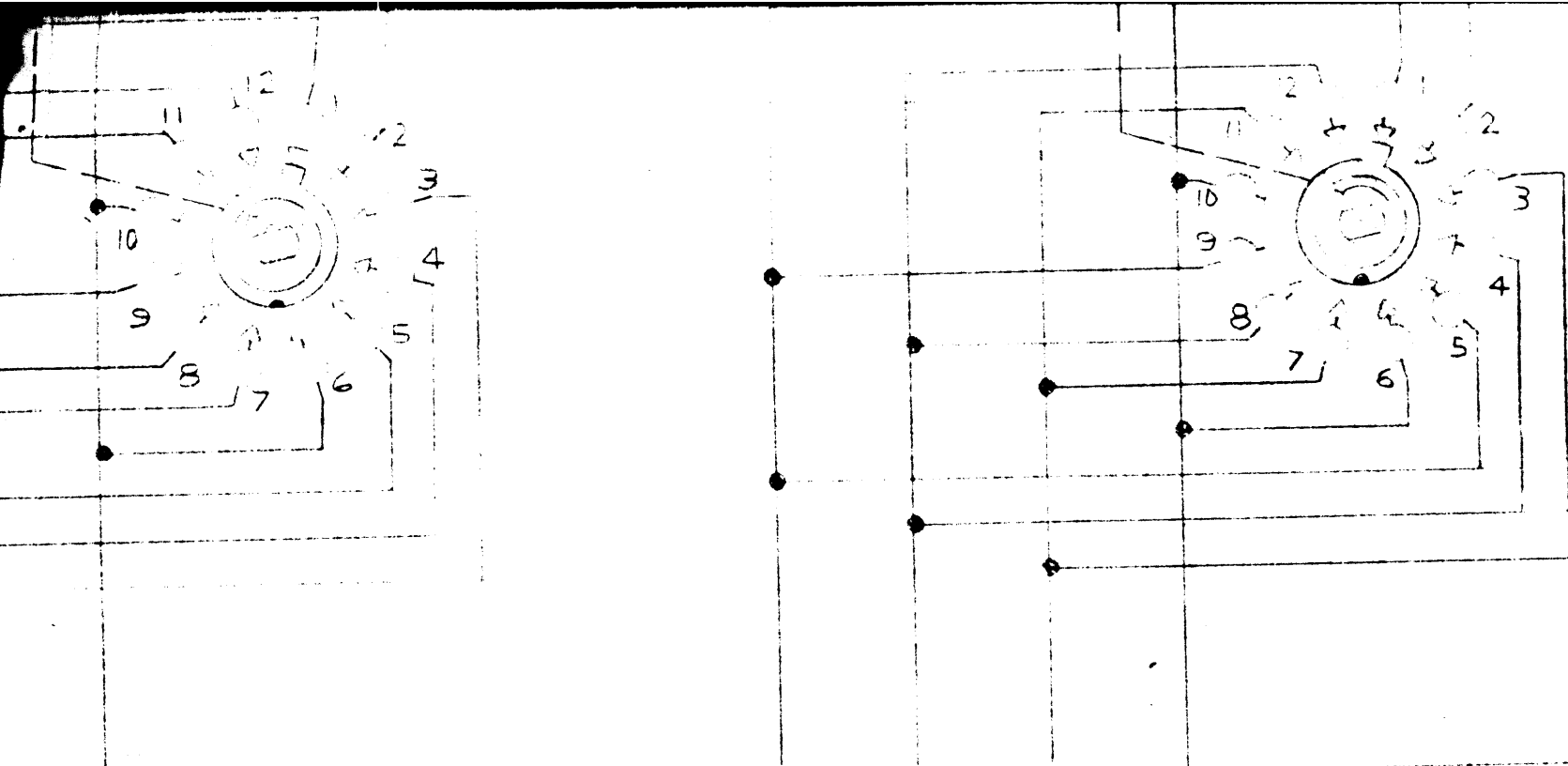
SEE MAIN SCHE



IN SCHEMATIC

REVISIONS							
ZONE	LTR	DESCRIPTION	DATE	E M N NO	DRAFT	CHKD	APPD
	X	EXP. RELEASE	1/1/72				
	Y		1/1/72				
	Z		1/1/72		(C)		
	A	DELE AIE33, AICR3; RELOCATE AIK16; AIK16 WAS 100; PIN U WENT TO AIK2-16; AIXDS1 & AIE31 WENT TO PIN 1.	3/15/72	2057			
	B	ADD PIN NO. TO A705 AIK1	9/1/72	20-12	GE	Q	Q
	C	REV AICR5; ADD NOTE 4	11/1/73	20997	BAM	Q	Q

FILE	101/REVA
1	PAGE 2A
QTY	MODEL USED ON



A705 LAST SYMBOLS
 AI WI
 FI XFI
 SI

A705 MISSING SYMBOLS

A705AI LAST SYMBOLS
 CR8 R16
 DS2 XDS2
 E38 XK2
 X2

A705AI MISSING SYMBOLS
 E35

FINAL APPROVAL <i>[Signature]</i>	DATE 3/29/70
MECH. DES.	DATE
ELECT. DES. <i>[Signature]</i>	DATE 30 OCT 69
CHECKED	DATE
DRAWN <i>[Signature]</i>	DATE 7 OCT 69

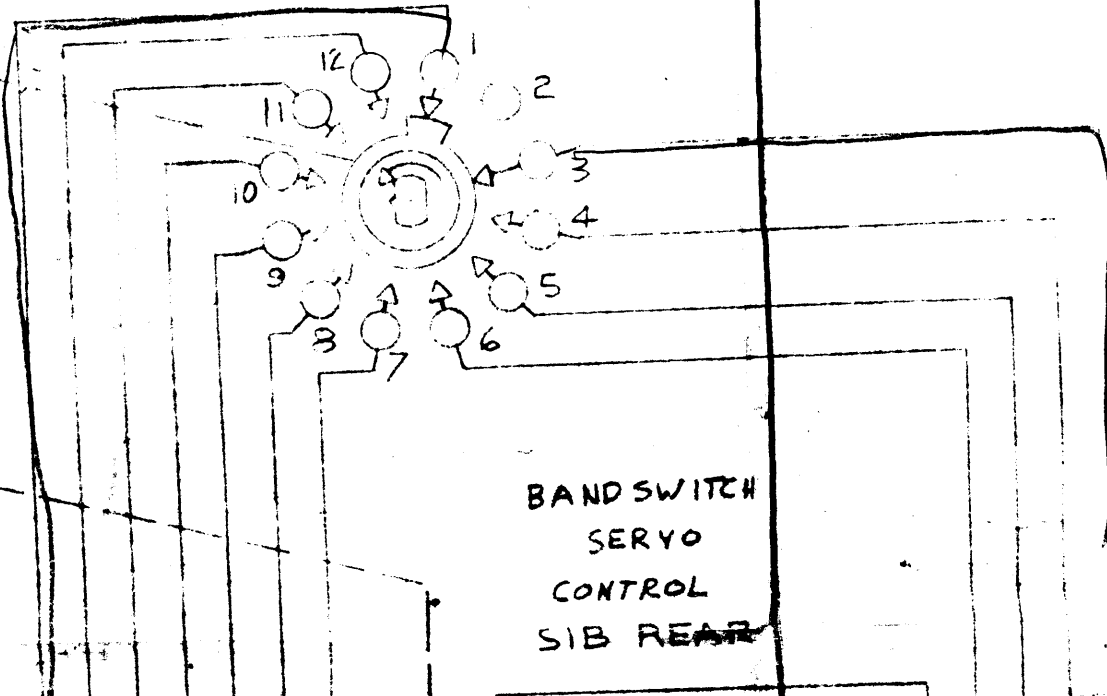
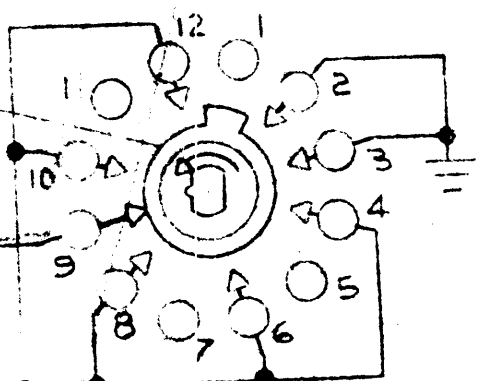
Figure 7-7. Schematic Diagram, HFL(-)10K Remote Power Assembly

HFL(-)10K/EVA	AS 115
PALS-CA	PK 5005
MODEL USED ON	AS 115

7-29/7-30

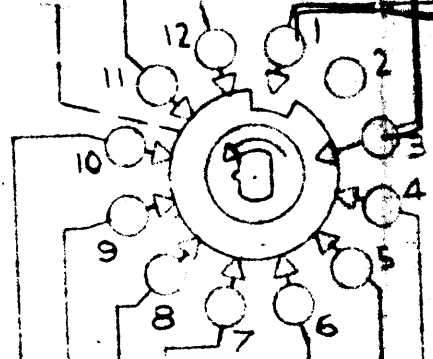
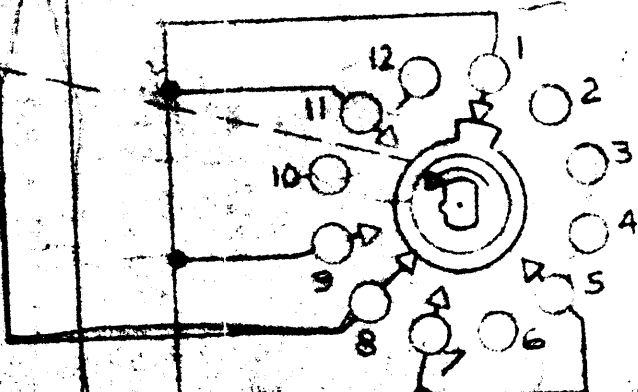
BAND SWITCH
MANUAL
CONTROL
SIA FRONT

BANDSWITCH
INDICATOR
CONTROL
SIB FRONT



SIA REAR

BANDSWITCH
SERVO
CONTROL
SIB REAR



J I J I z M X m W V U T g f e d c b a n g Y h k S R P N B A P L K J H F

A70451	
POS.	BAND-MHz
1	2 — 2.3
12	2.3 — 2.6
11	2.6 — 3

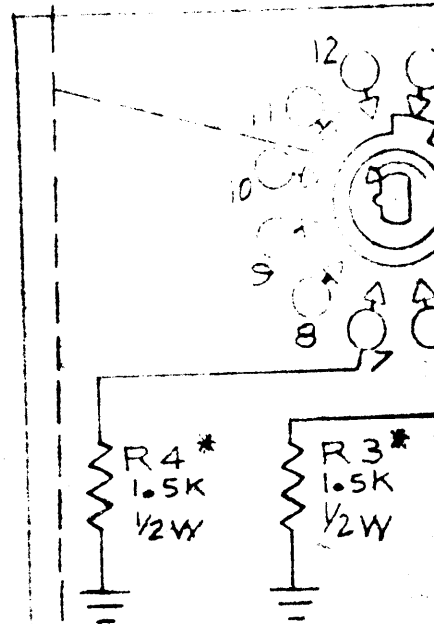
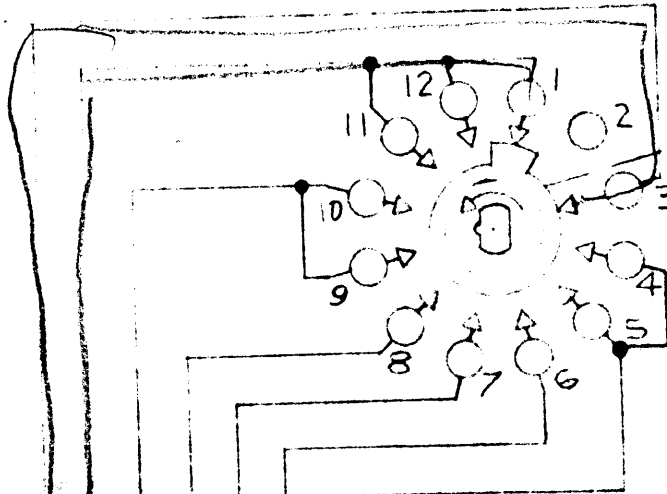
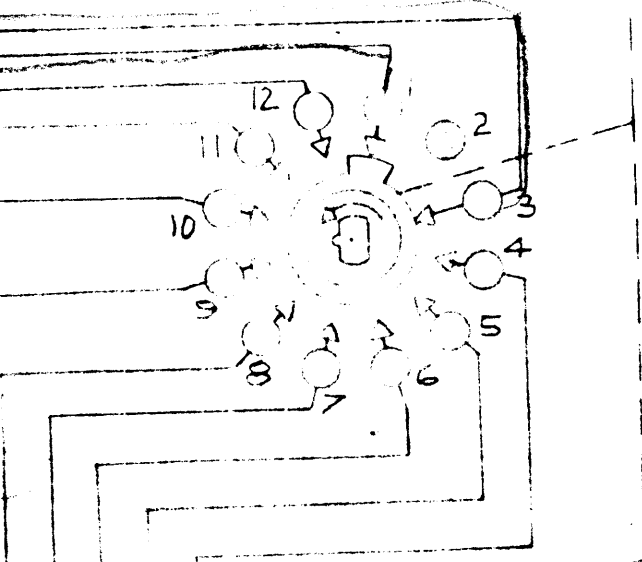
SWITCH SHOWN
IN POSITION 1

PARTIAL REFERENCE DESIGNATION
PREFIX PART DESIGNATIONS W
DESIGNATION. A704A1

IPA
BANDSWITCH
CONTROL
SIC FRONT

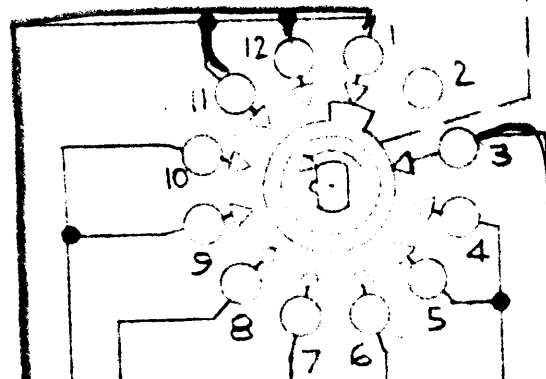
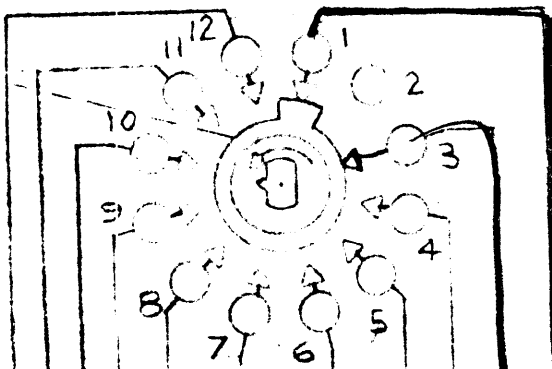
FILTER
BAND SWITCH
CONTROL
SID FRONT

PA T
SENS
SIE



IPA
BANDSWITCH
INTER LOCK
SIC REAR

FILTER
BANDSWITCH
INTER LOCK
SID REAR



J H F E D C

p n m k j

i

h

g

f

e

d

T

S

q

Y

X

W

V

D

N

L

K

J

H

E

SEE MAIN SCHEMATIC

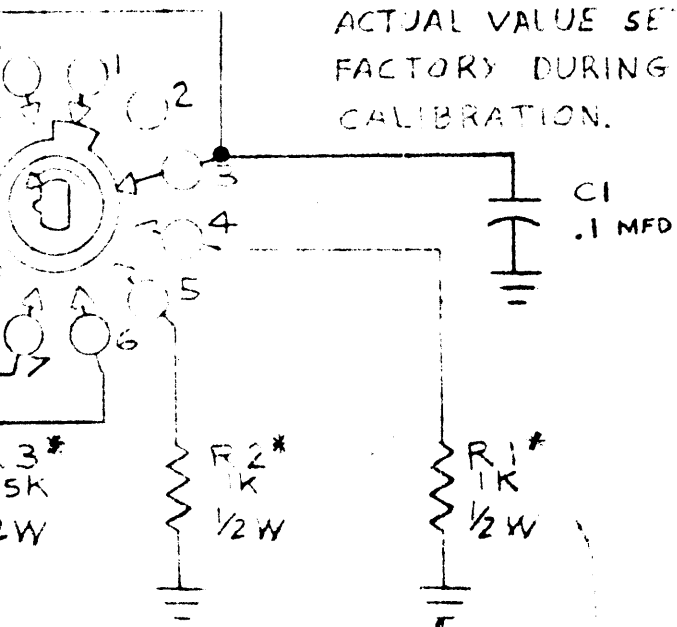
LAST SYMBOLS
CR2 CI

MISSING SYMBOLS

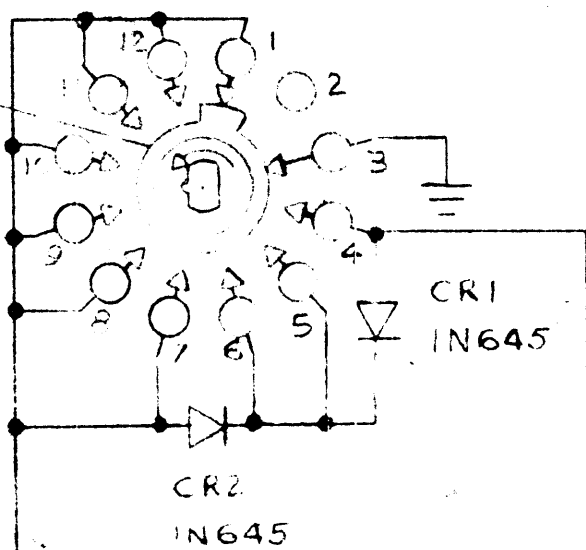
IGNATIONS ARE SHOWN
NS WITH SUBASSEMBLY

PA TUNE
SENSITIVITY
SIE FRONT

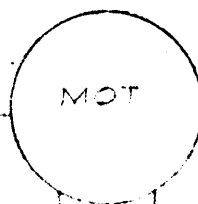
* NOMINAL VALUE
ACTUAL VALUE SET AT
FACTORY DURING
CALIBRATION.



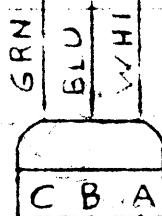
IPA RELAY
ENERGIZE
SIE REAR



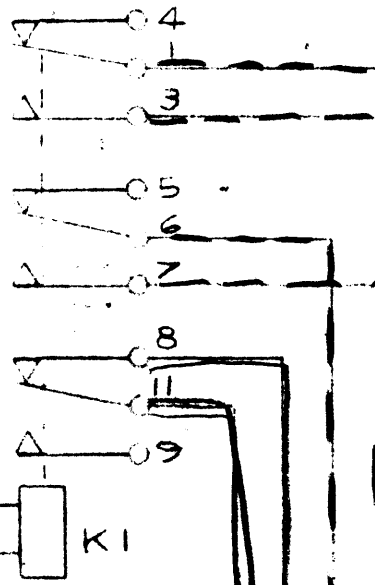
Y10 A704
BANDSWITCH
DRIVE MOTOR
A704B1



TO A
PA BAN
SEE
SCH

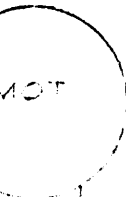


A704 PI
J3



q z c RBA C J2

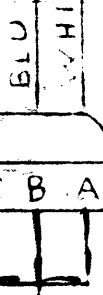
BANDSWITCH
MOTOR



TO A704SI
PA BANDSWITCH
SEE MAIN
SCHEMATIC

A704 PI

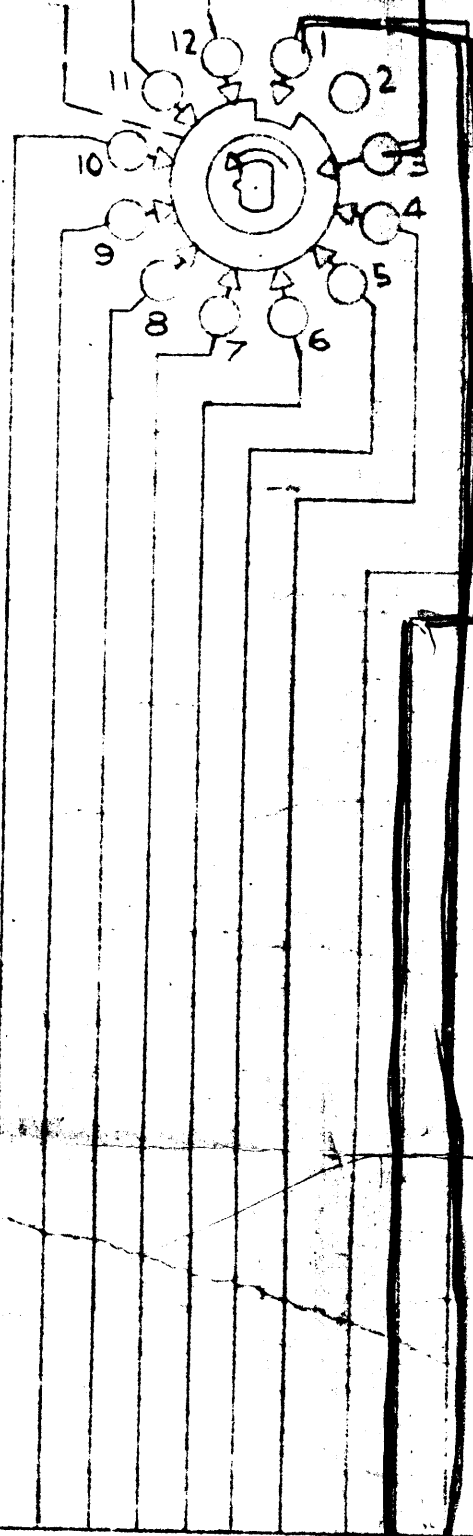
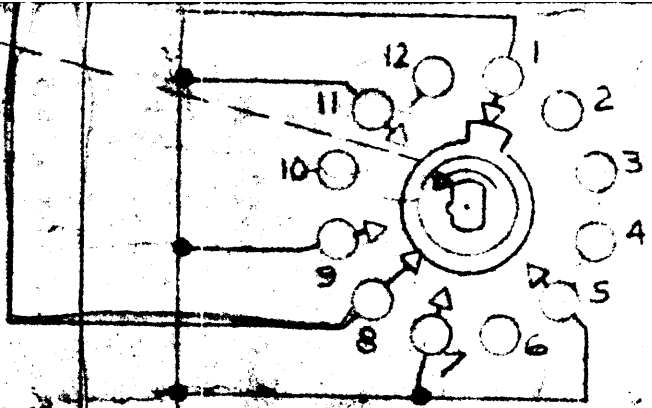
J3



C J2

REVISIONS

ZONE	LTR	DESCRIPTION	DATE	E.M.N.NO	DRAFT	CHKD	APPD
	X		10/6/69				
	X1	CHG B1 CONN.	10/24/69				
	X2	ADD CRI & CRZ	12/1/69				
	X3	CRZ WAS BETWEEN SIERRA 7-6	2/11/70				
	X4	POS 12-1 WERE JUMPED ON SIC-F&R ADD J1-P, J2-P	3/26/70				
	X5	K1-3 WENT TO J3-B, J2 C WENT TO J3-A	7/6/70				
	X	ORIGINAL RELEASE FOR PRODUCTION	8/5/70		(C)		
	A	J1-P went to SIC Front-11, K1-11 went to K1-10, CRZ WAS between 5 & 6	10/24/70	20047			
	B	REMOVE LINE BETWEEN J1 AND K1-11	12/1/71	20492	GE	(C)	REA
	C	CRI & CRZ WERE IN 914. Add C1	13/3/72	20559	GE		
	D	ADD TO M/U/O CHT. HFL()-10KREVA	9/2/72	20871	GE		
	E	JUMP SID FRONT 4 & 5	11/31/73	20995			



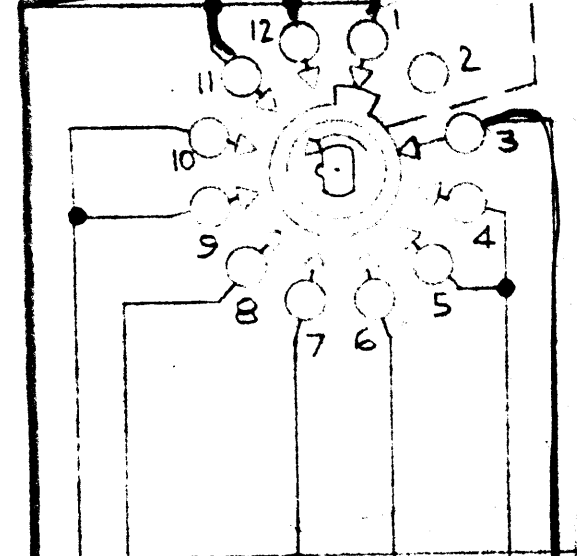
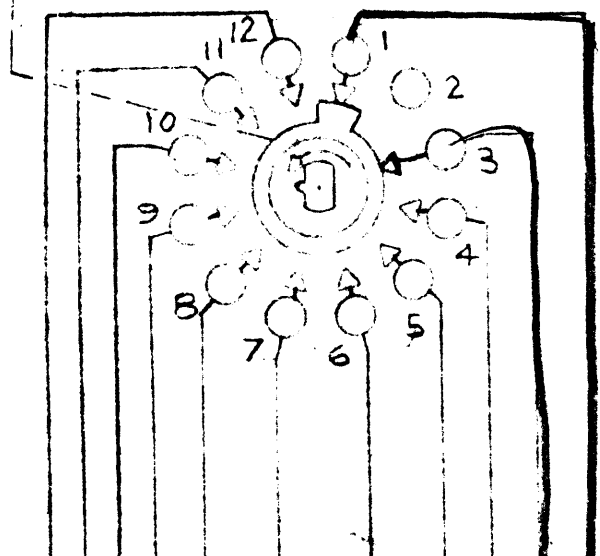
J I z M X m W V U T g f e d c b a n g Y h k S R P N B A P L K J H F E

A70451	
POS.	BAND-MHz
1	2 — 2.3
12	2.3 — 2.6
11	2.6 — 3
10	3 — 4
9	4 — 5
8	5 — 8
7	8 — 12
6	12 — 16
5	16 — 24
4	24 — 30

SWITCH SHOWN
IN POSITION 1

PARTIAL REFERENCE DESIGNATION
PREFIX PART DESIGNATIONS WITH
DESIGNATION. A704A1

SIC REAR



L K J H F E D C

p n m k j i h g f e d T S r Y X W V D N L

K J H E

SEE MAIN SCHEMATIC

DESIGNATIONS ARE SHOWN
ATIONS WITH SUBASSEMBLY

LAST SYMBOLS

- CR2 CI
- J3
- K1
- R4
- S1
- TB1
- W1
- XK1

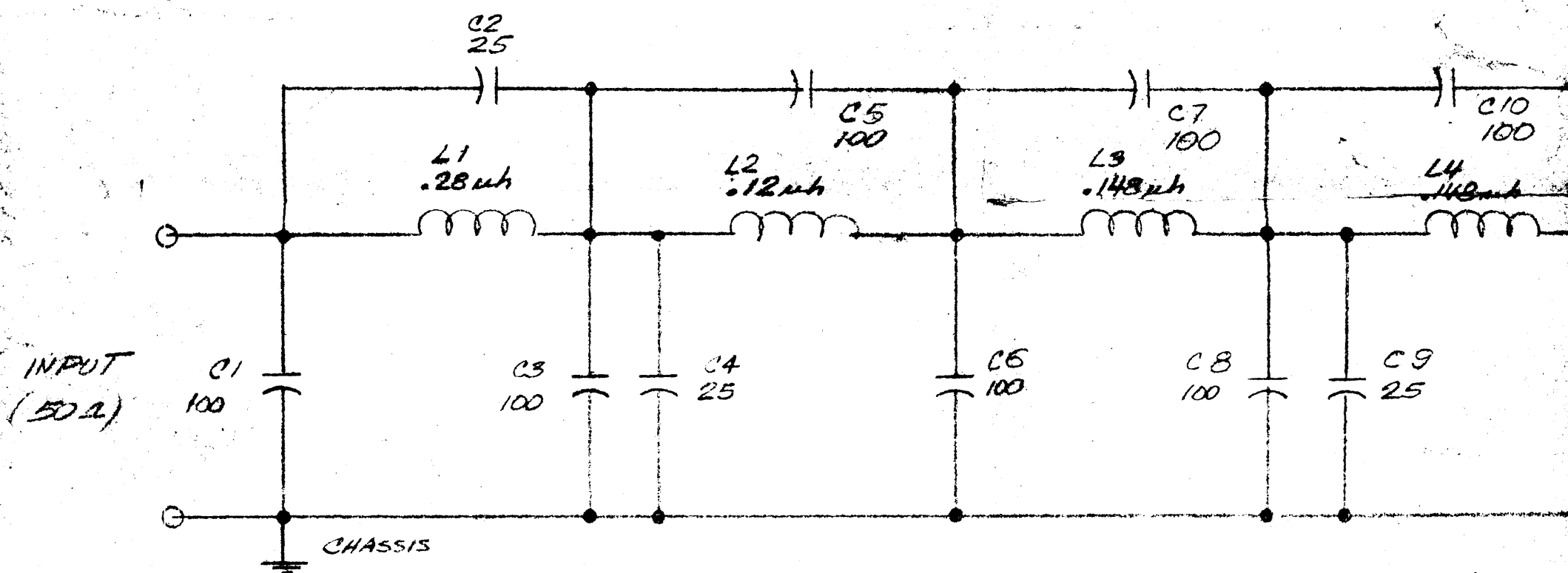
MISSING SYMBOLS

C J2
3

FINAL APPROVAL <i>OC</i>	DATE 9 APR 70
MECH. DES.	DATE
ELECT. DES. <i>JEP</i>	DATE 8 OCT 69
CHECKED	DATE
DRAWN <i>JEP</i>	DATE 6 OCT 69

DRAWN FROM KB SECTION 11/ CH 11/102	
HFL ()-10K/REVA	AX5170
PALA-10K	AX-5084
UNIT MODEL USED ON	ASS'Y NO

Figure 7-8. Schematic Diagram, HFL()-10K PA Bandswitch Control



NOTE
CAPACITOR VALUES IN PICO FARADS

AF 110		
QTY / UNIT	MODEL USED ON	ASS'Y NO.
APPLICATION		
CODE		
<p style="text-align: center;">NOTICE TO PERSONS RECEIVING THIS DRAWING</p> <p style="text-align: center;">THE TECHNICAL MATERIEL CORPORATION claims proprietary right in the material disclosed hereon. This drawing is issued in confidence for all manufacturing purposes and shall not be retransmitted or used to manufacture anything shown hereon without previous written consent of the TECHNICAL MATERIEL CORPORATION to the user. This drawing is loaned for mutual assistance and is subject to recall at any time.</p>		

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
AND INCLUDE CHEMICAL
OR PLATED FINISH

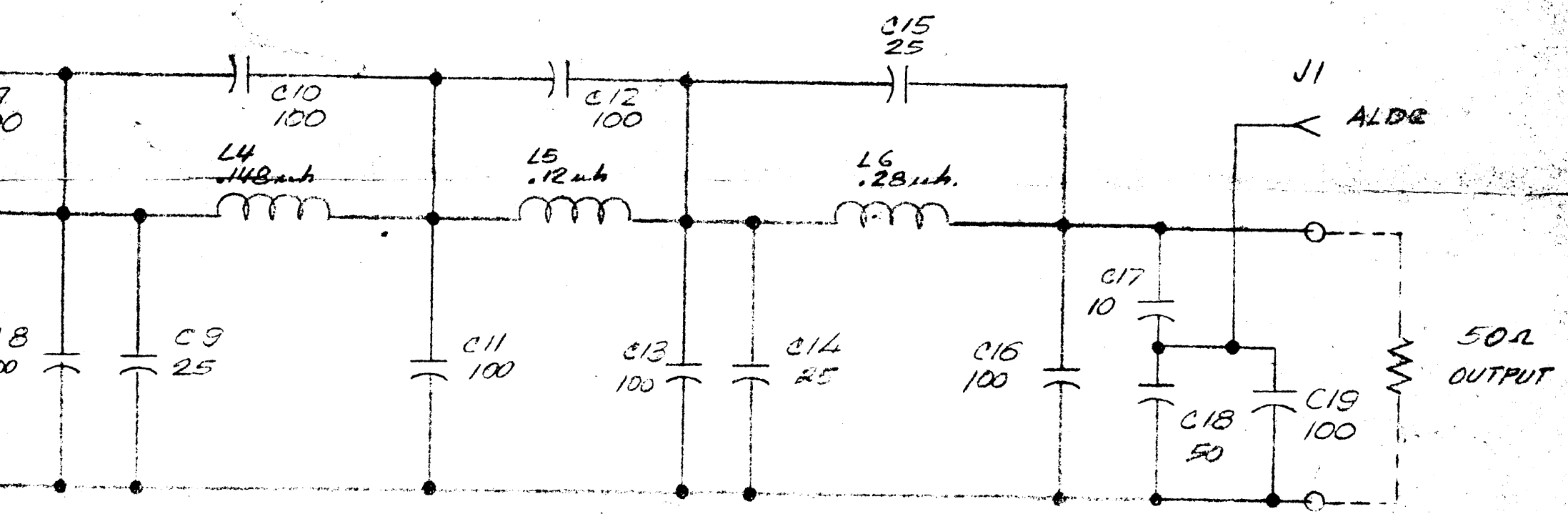
TOLERANCES

DECIMALS
.X ± .05
.XX ± .01
.XXX ± .005

MATERIAL

FINISH

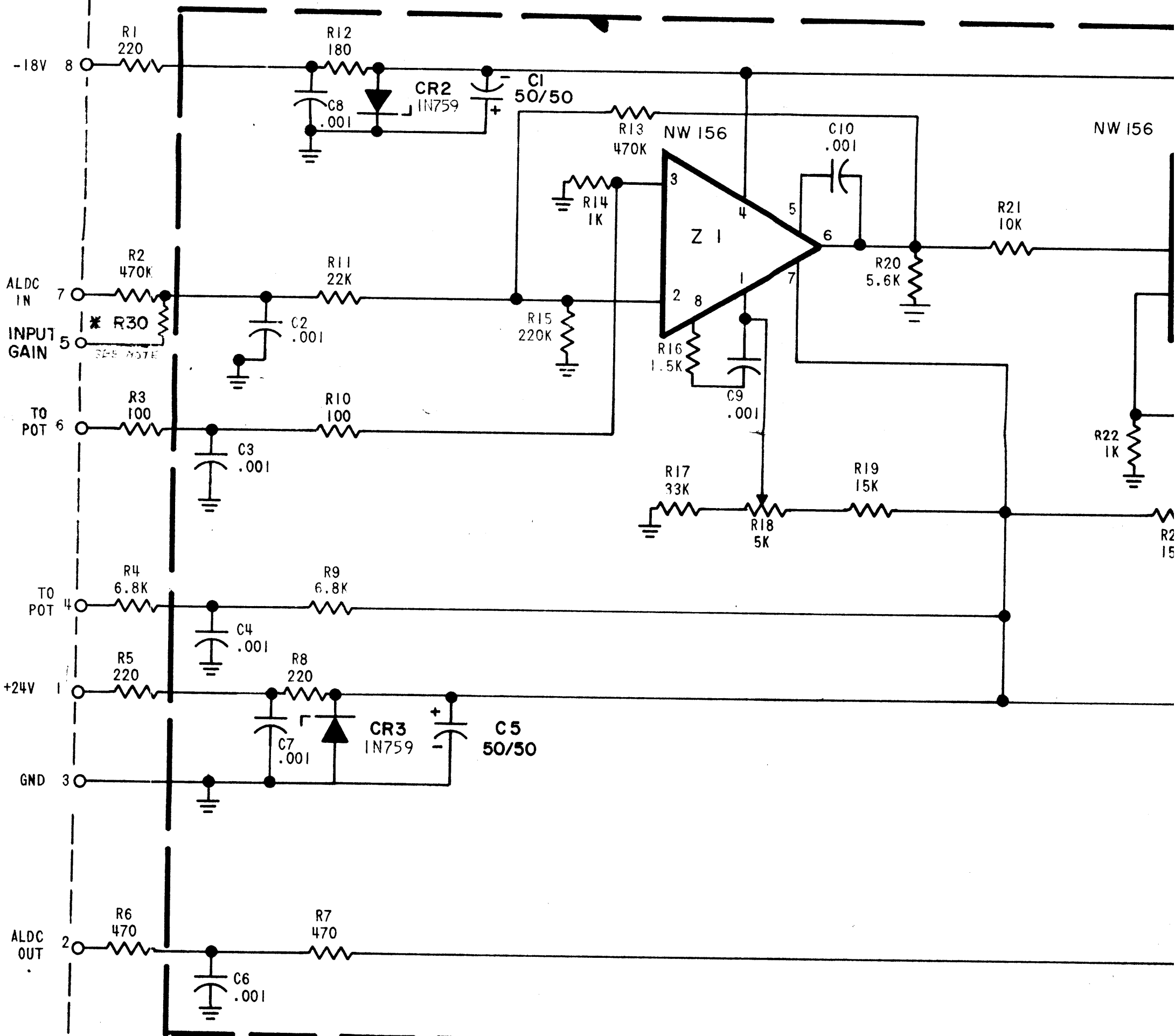
REVISIONS						
ZONE	LTR	DESCRIPTION	DATE	E.M.N.O.	DRAFT	CHKD
	⊕	ORIGINAL RELEASE FOR PROD	6/24/70		JA	FB
	A	REVISED	12/10/2016		GE	FB



QTY. REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
LIST OF MATERIAL				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES		FINAL APPROVAL	DATE	
		<i>COB</i>	6/27/70	
		MECH. DES.	DATE	
		ELECT. DES.	DATE	
		<i>J. ANGER</i>	1/29/69	
		CHECKED	DATE	
		DRAWN	DATE	
		<i>J. ANGER</i>	3/25/70	
MATERIAL				
FINISH				

Figure 7-9. Schematic Diagram, HFL()-10K Harmonic Filter

A 4856



***NOTE**

WHEN UNIT IS CONFIGURED FOR A4856, R30 VALUE SHOULD BE 6.8K WHEN UNIT IS CONFIGURED FOR A4856-2 R30 VALUE SHOULD BE 8.2K

LAST SYMBOL	MISSING SYMBOL
C15 CR3 R30 VR22	C11

1	AX5130	A4856-2
1	4FLM 10K	A 4856
QTY / UNIT	MODEL USED ON	ASS'Y NO.
APPLICATION		
	CODE	

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UNLESS OTHERWISE DIMENSIONS ARE IN AND INCLUDE CHEMICAL OR PLATED FINISH

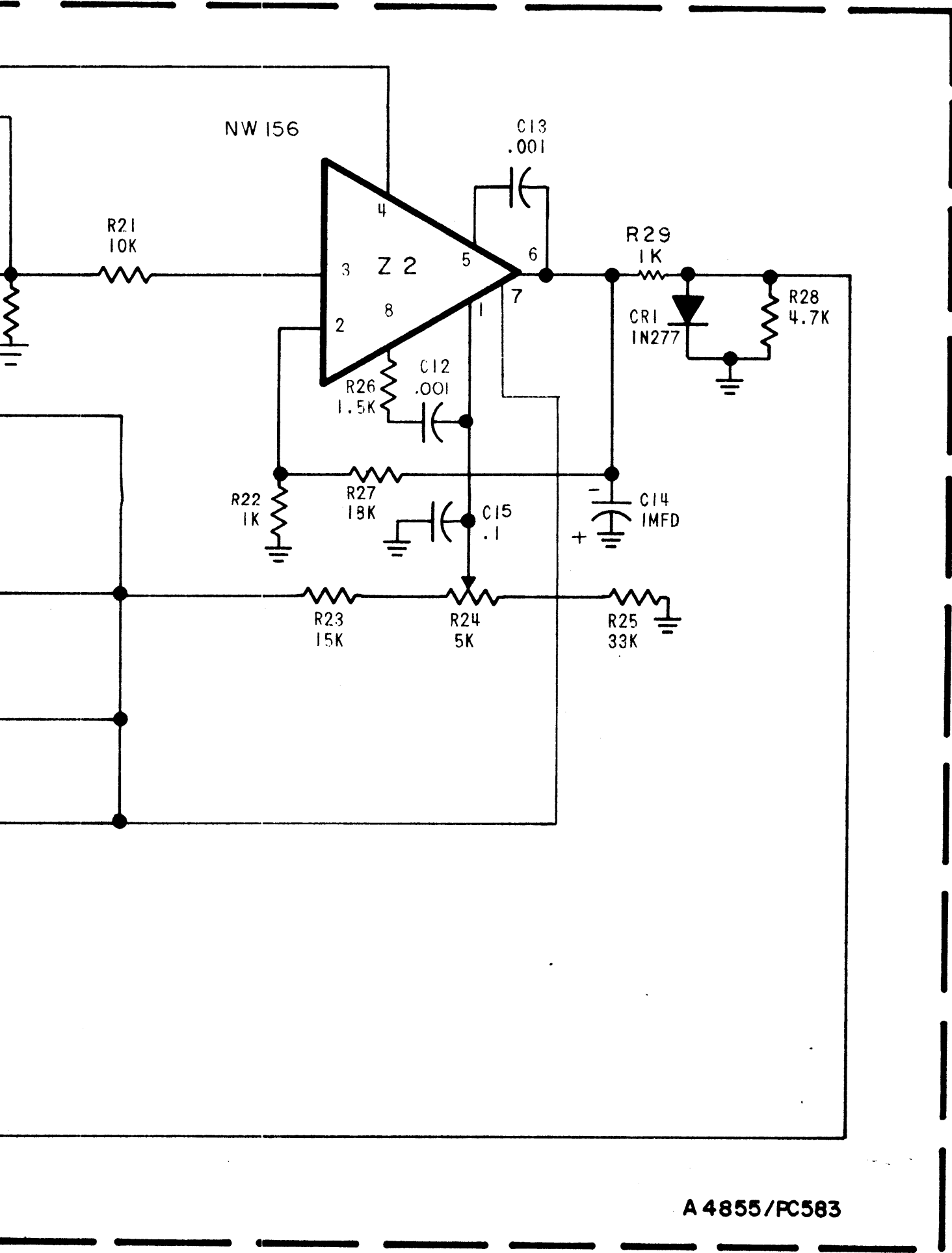
TOLERANCES

DECIMALS
 .X ± .05
 .XX ± .01
 .XXX ± .005

MATERIAL

FINISH

REVISIONS							
E.M.N.NO	DRAFT	CHKD	ZONE	LTR	DESCRIPTION	DATE	APPROVED
20463	GE	J		B	REPLACE C1, C5 (40R30) ADD NOTE	1/11/72	EL
20731	GE	J		C	DELETE C-11 6 MFD, C-VAL. C12W.04	6/15/72	EL



QTY. REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
-----------	------	----------	-------------	--------

LIST OF MATERIAL

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES

FINAL APPROVAL	DATE
MECH. DES.	DATE
ELECT. DES.	DATE
CHECKED	DATE
DRAWN	DATE

THE TECHNICAL MATERIEL CORP.
MAMARONECK, NEW YORK

TOLERANCES ON
 DECIMALS .X ± .05
 .XX ± .01
 .XXX ± .005
 FRACTIONS ± 1/64
 ANGLES ± 0° -30'

Figure 7-10. Schematic Diagram, HFL()-10K ALDC Assembly

MATERIAL	
FINISH	

7-35/7-36

Produced hereon. Produced or used by THE TECHNICAL MATERIEL CORPORATION

2 1

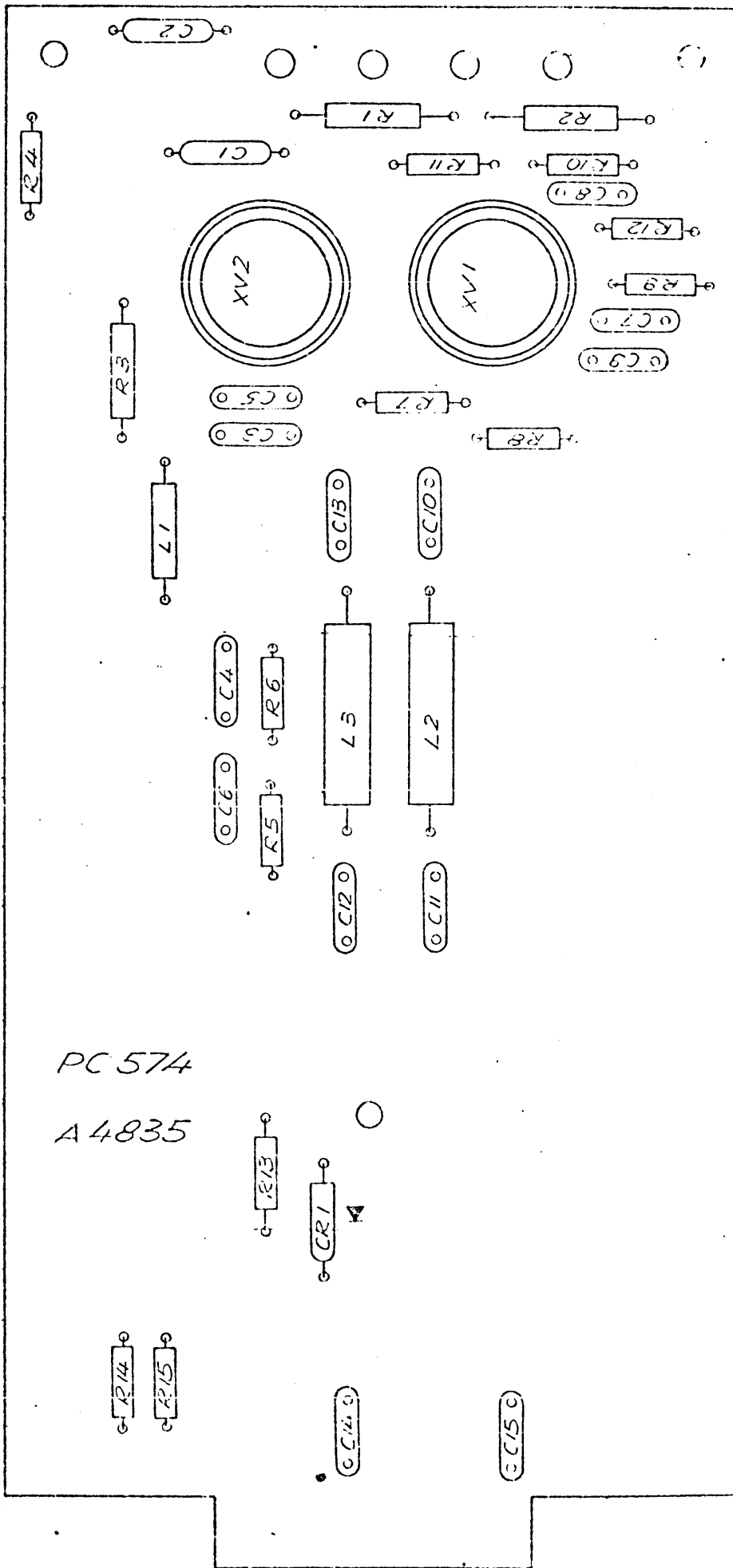


Figure 7-11. Component Location, A701 (A4835)

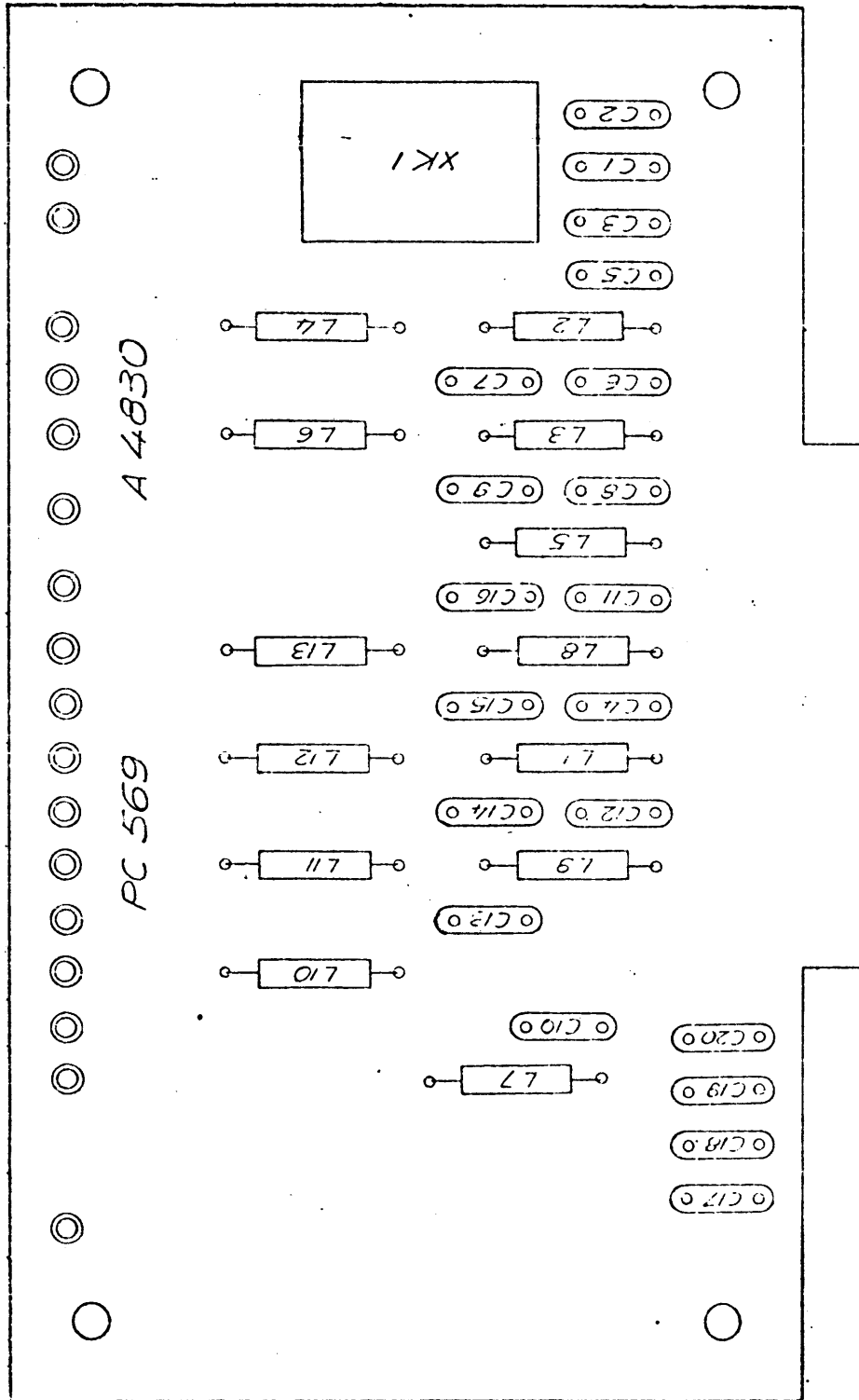


Figure 7-12. Component Location, A702A1 (A4830)

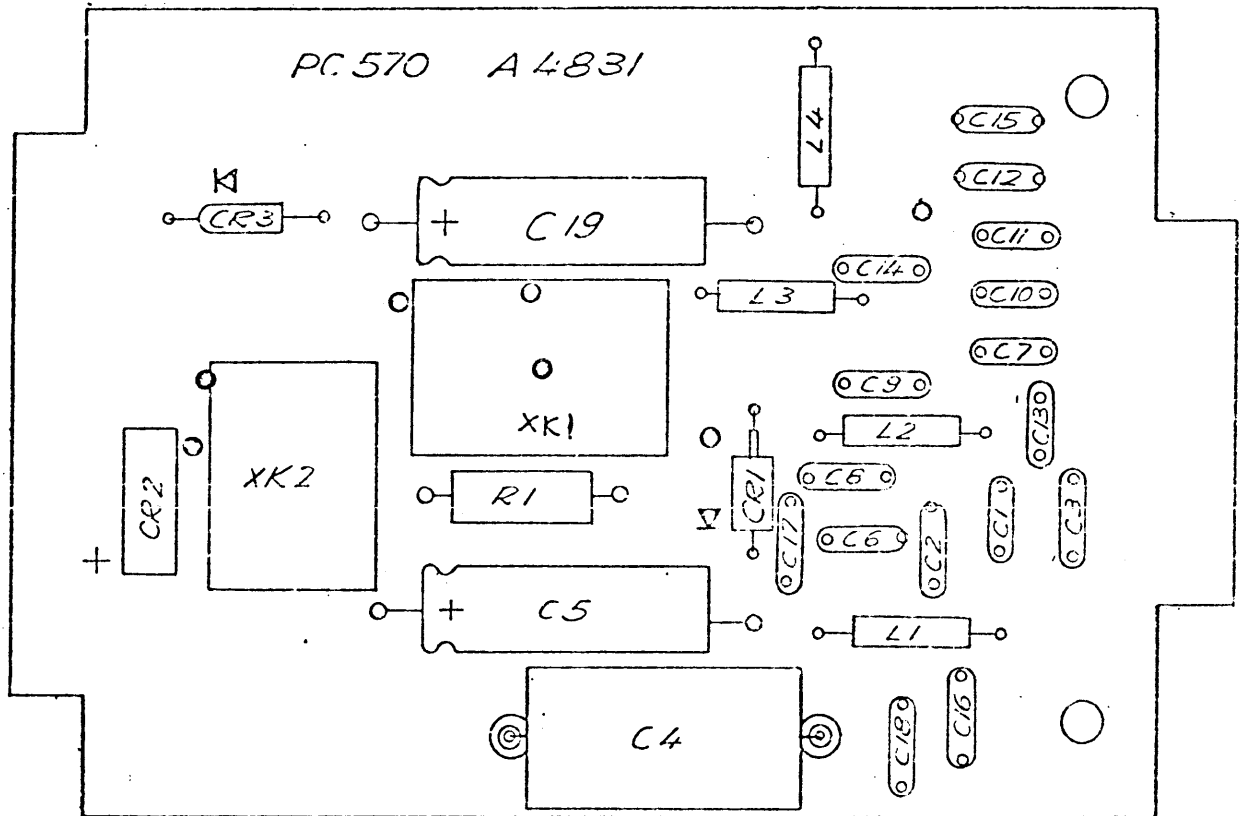


Figure 7-13. Component Location,
A703A1 (A4831)

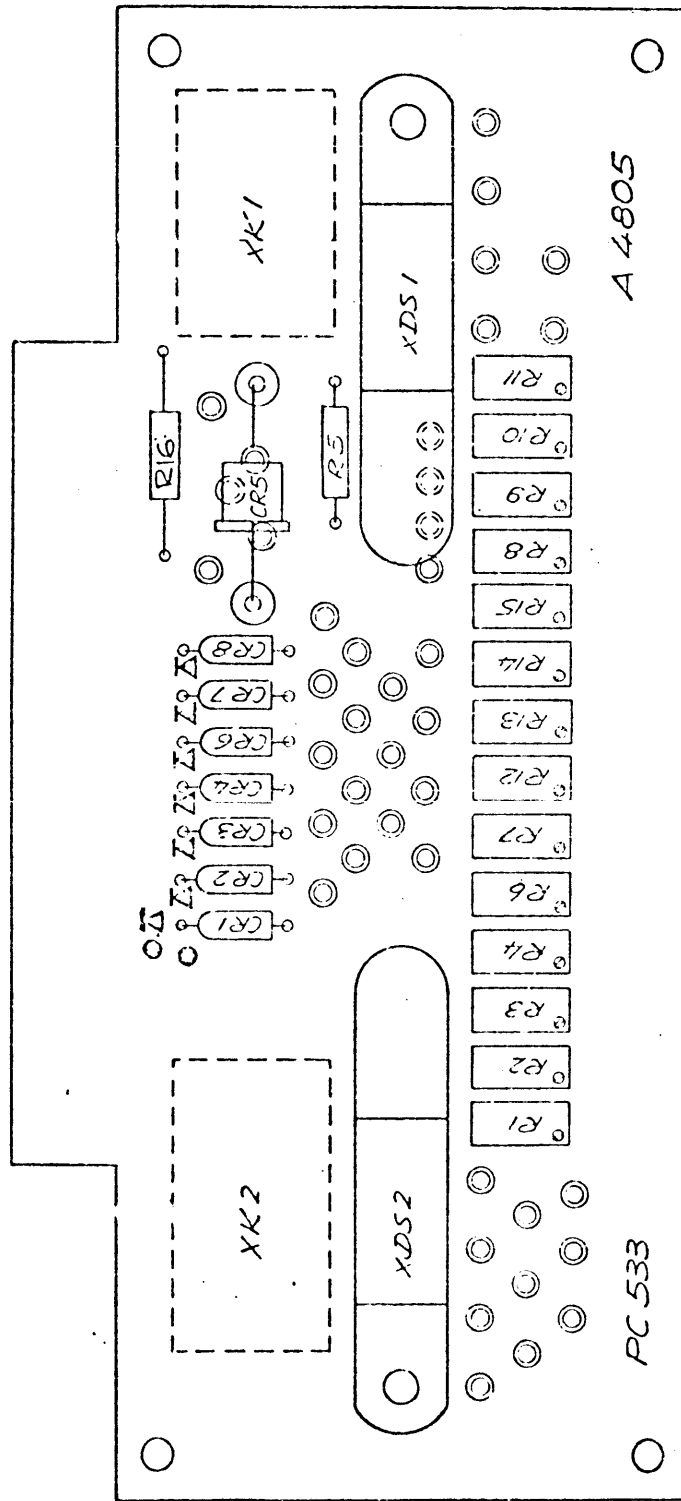
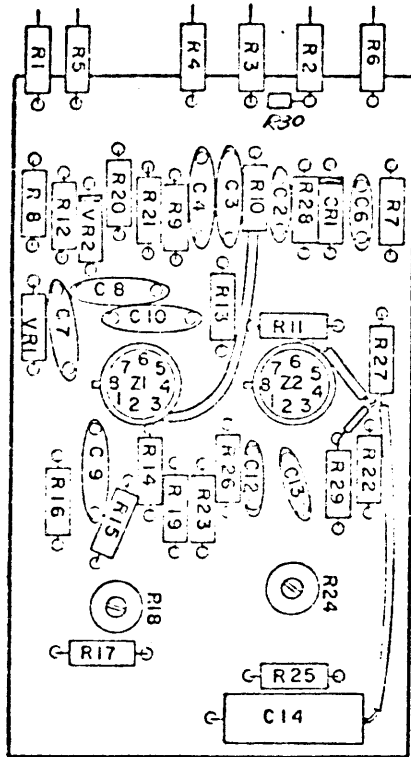
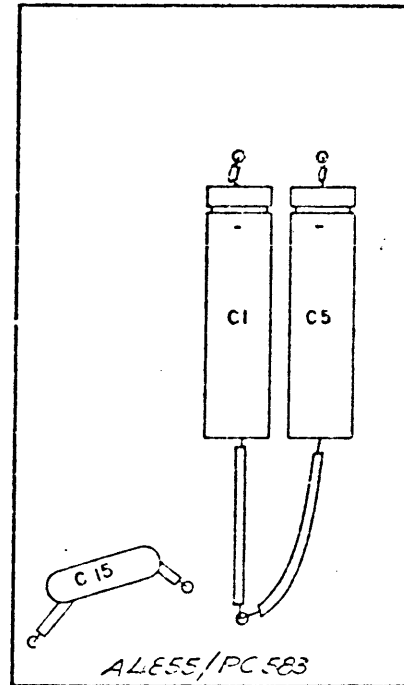


Figure 7-14. Component Location, A705A1 (A4805)



TOP VIEW



BOTTOM VIEW

Figure 7-15. Component Location,
A707A1 (A4855)

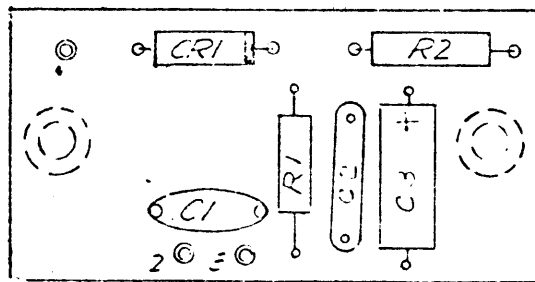


Figure 7-16. Component Location,
A708 (A4850-3)

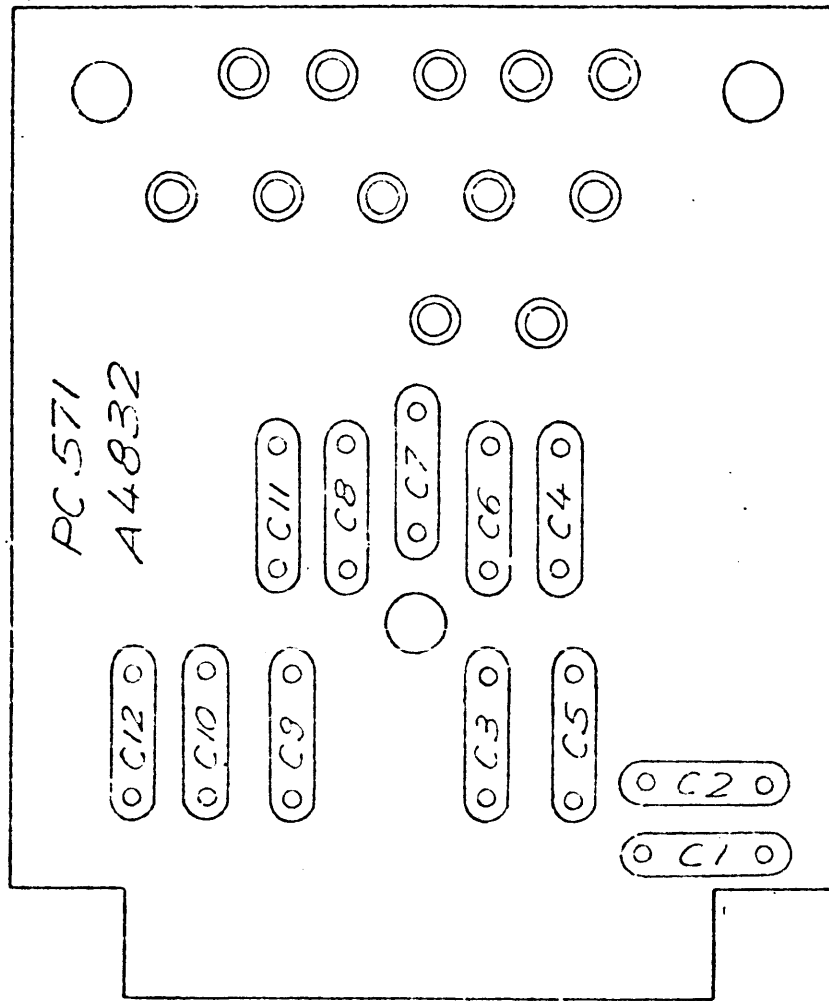


Figure 7-17. Component Location,
A1001A1 (A4832)

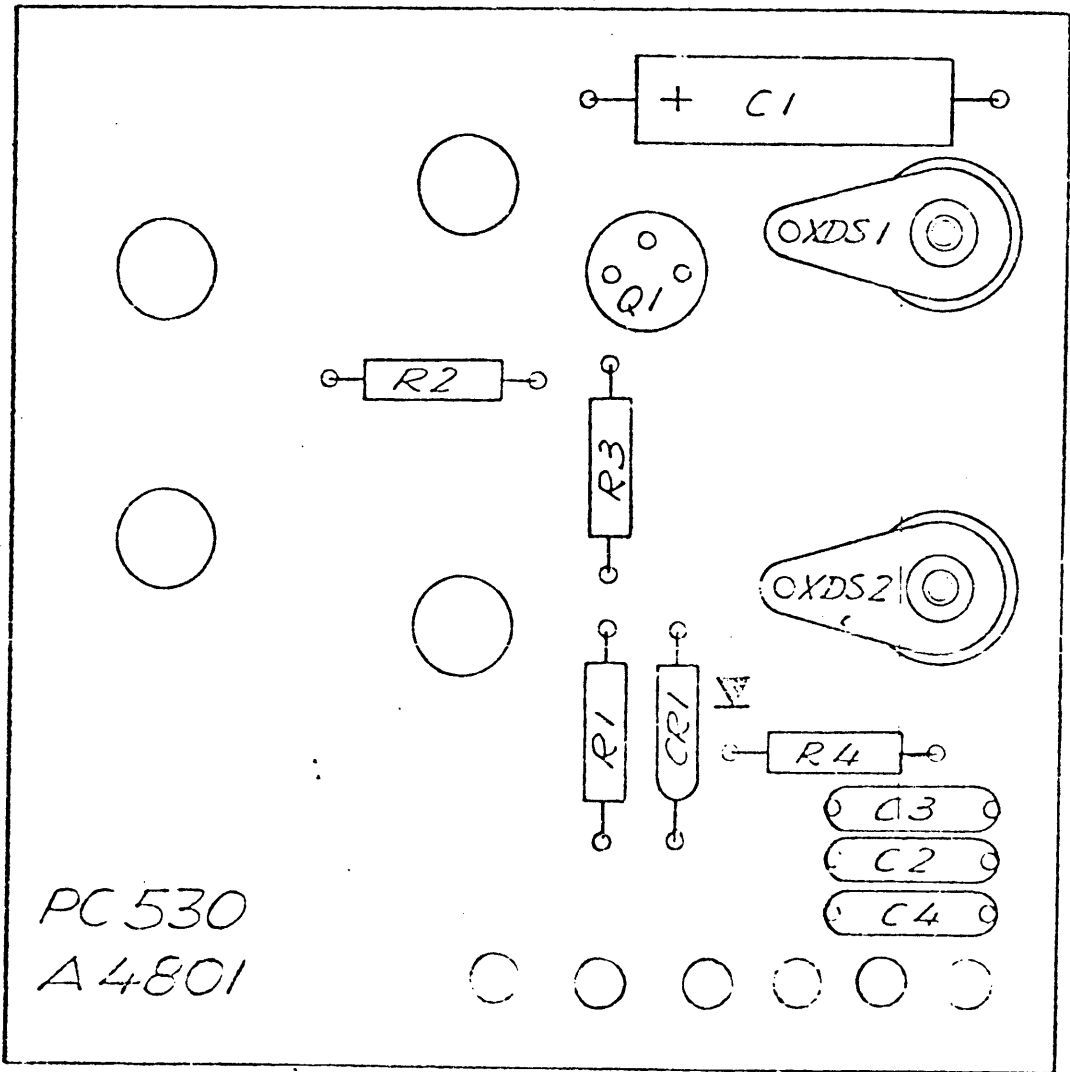


Figure 7-18. Component Location, A1C06 (A4801)

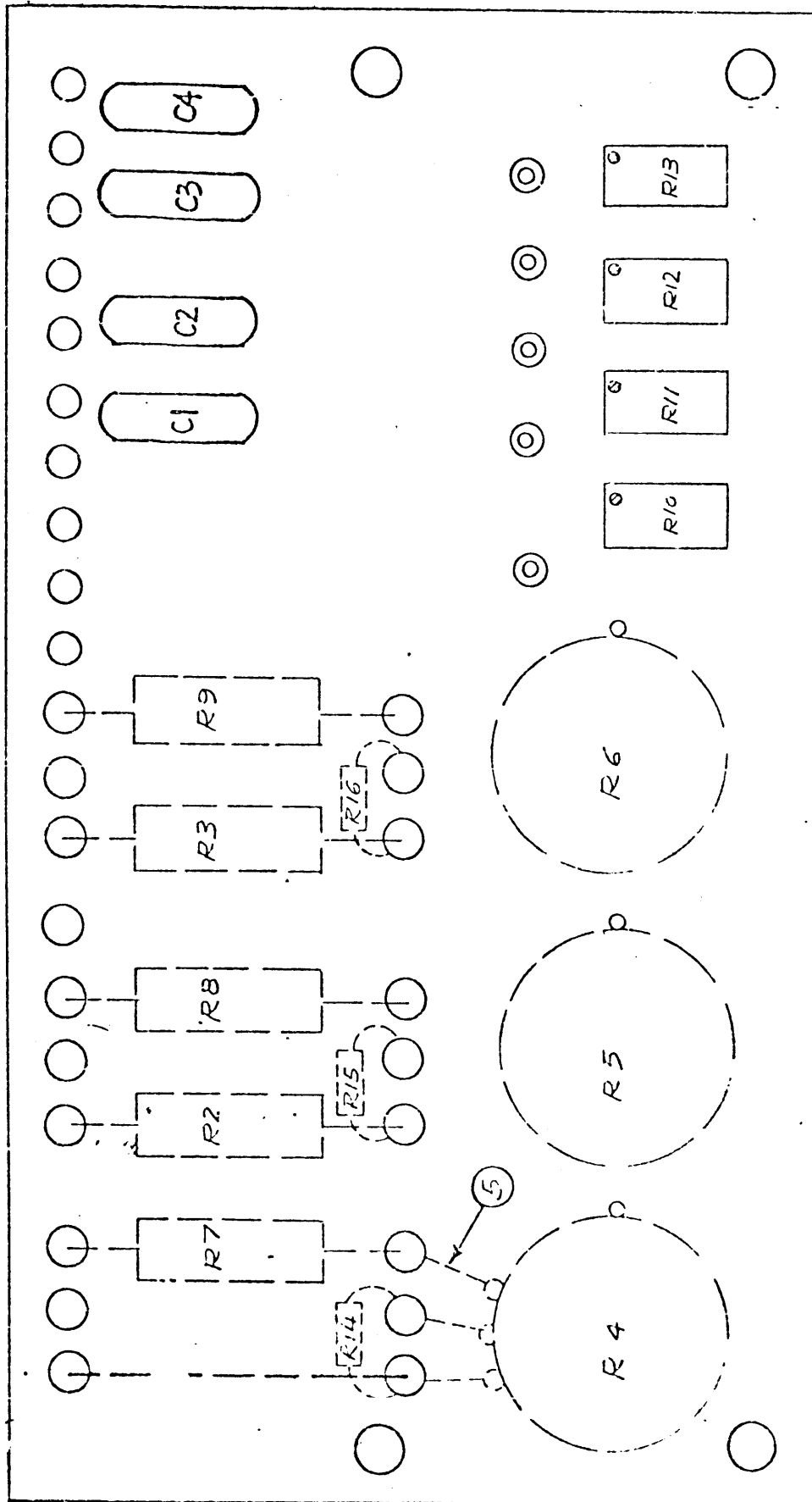


Figure 7-19. Component Location,
A1007 (A4833)

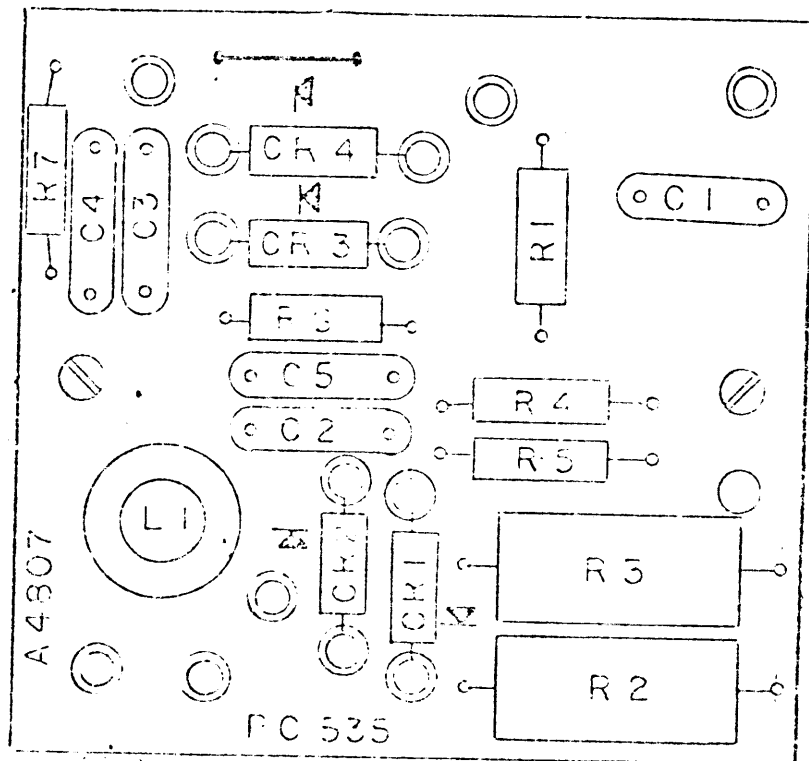


Figure 7-20. Component Location,
A1008 (A4807)

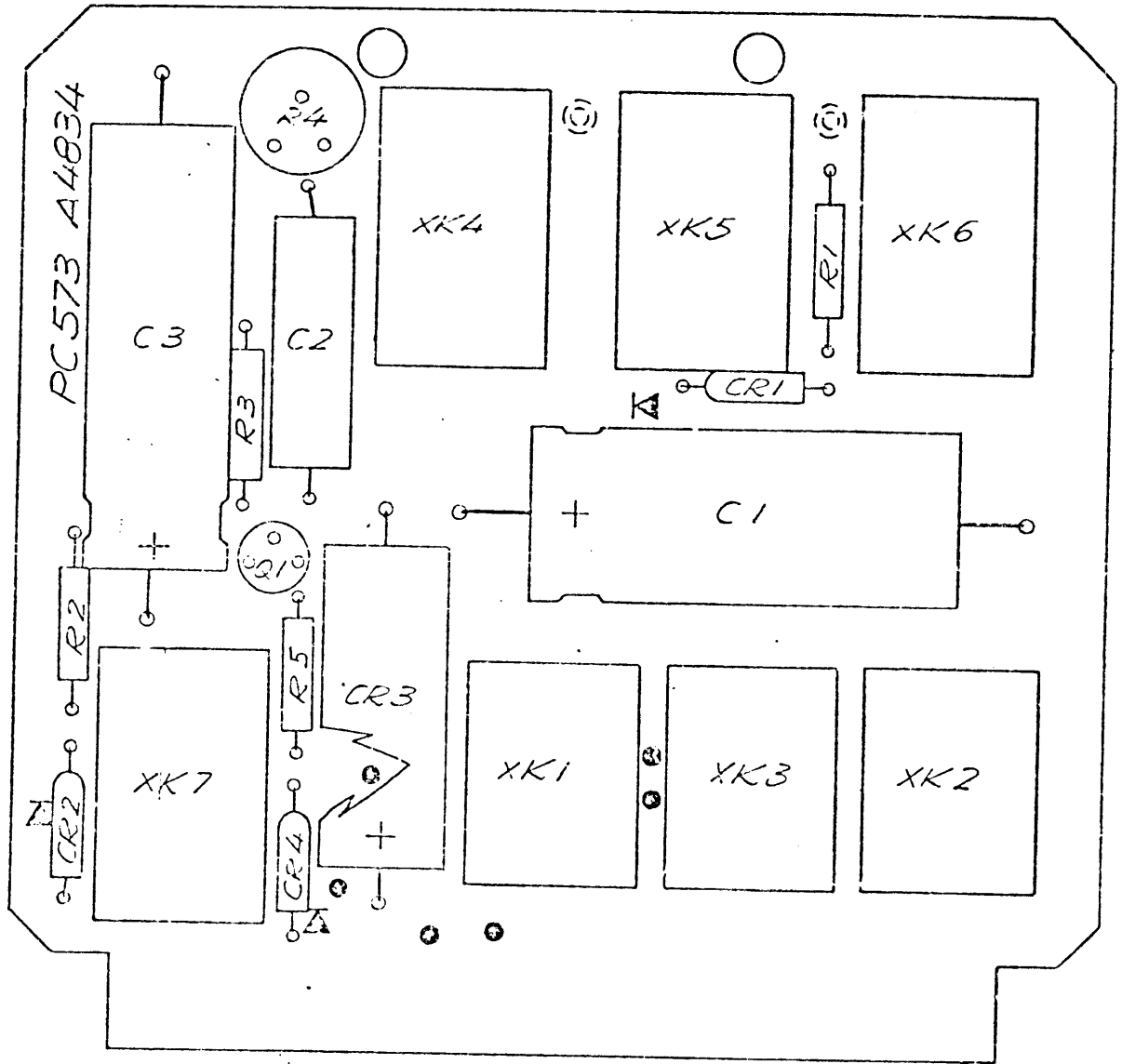


Figure 7-21. Component Location,
A2001 (A4834)

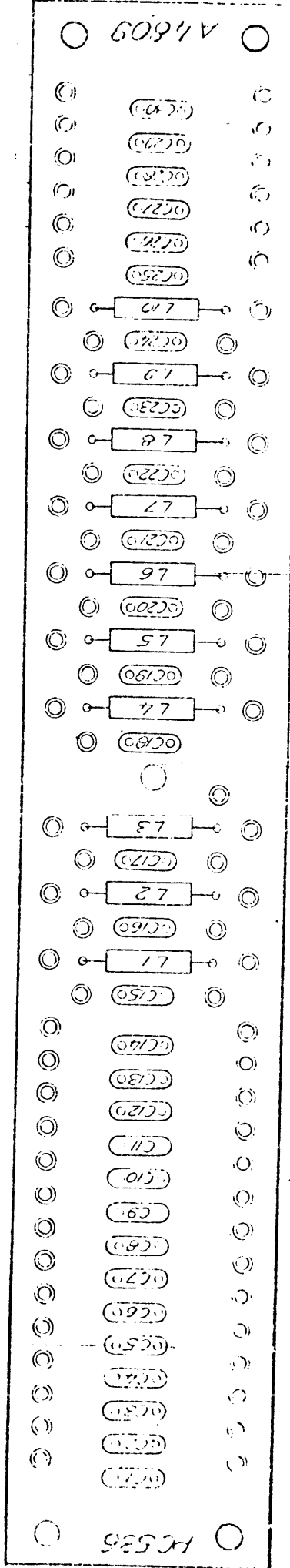


Figure 7-22. Component Location, A3001 (A4809)

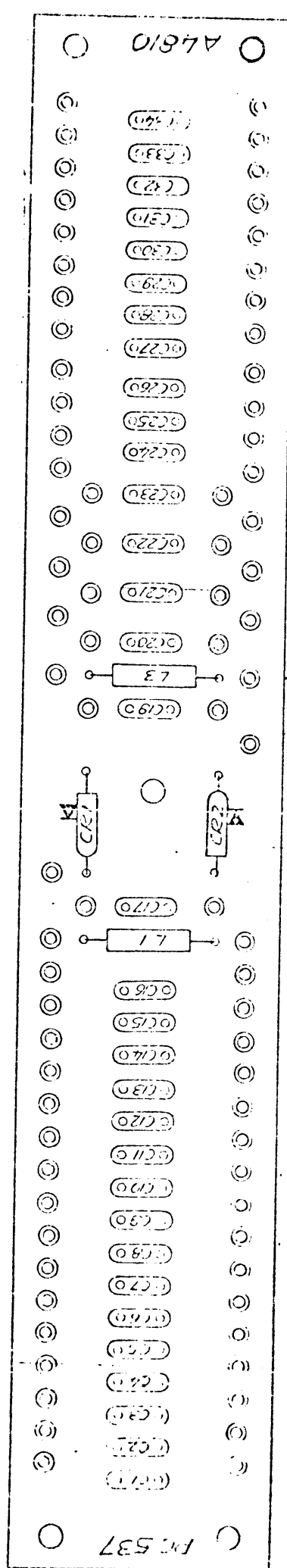


Figure 7-23. Component Location, A3002 (A4810)

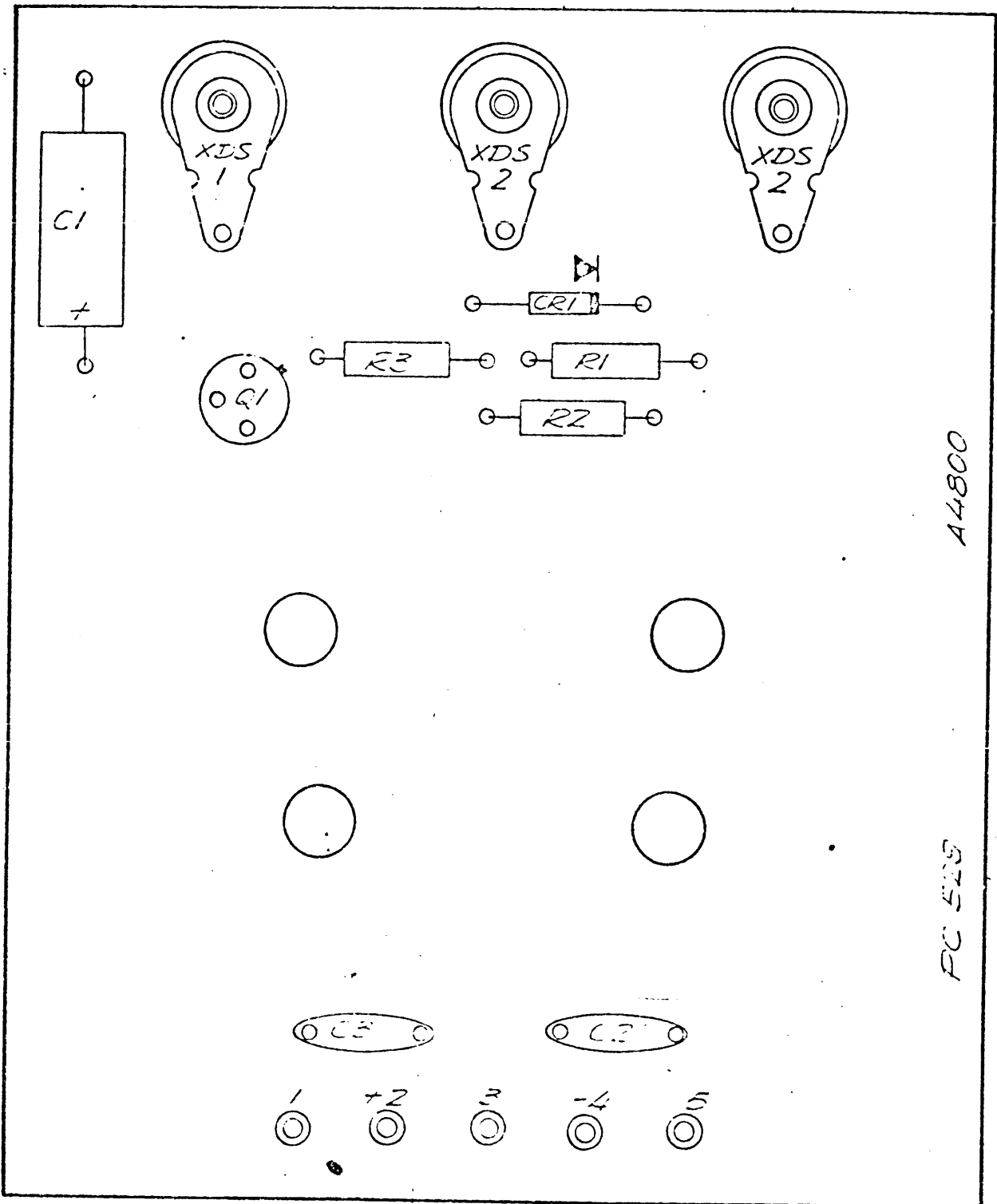


Figure 7-24. Component Location,
A4001 (A4800)

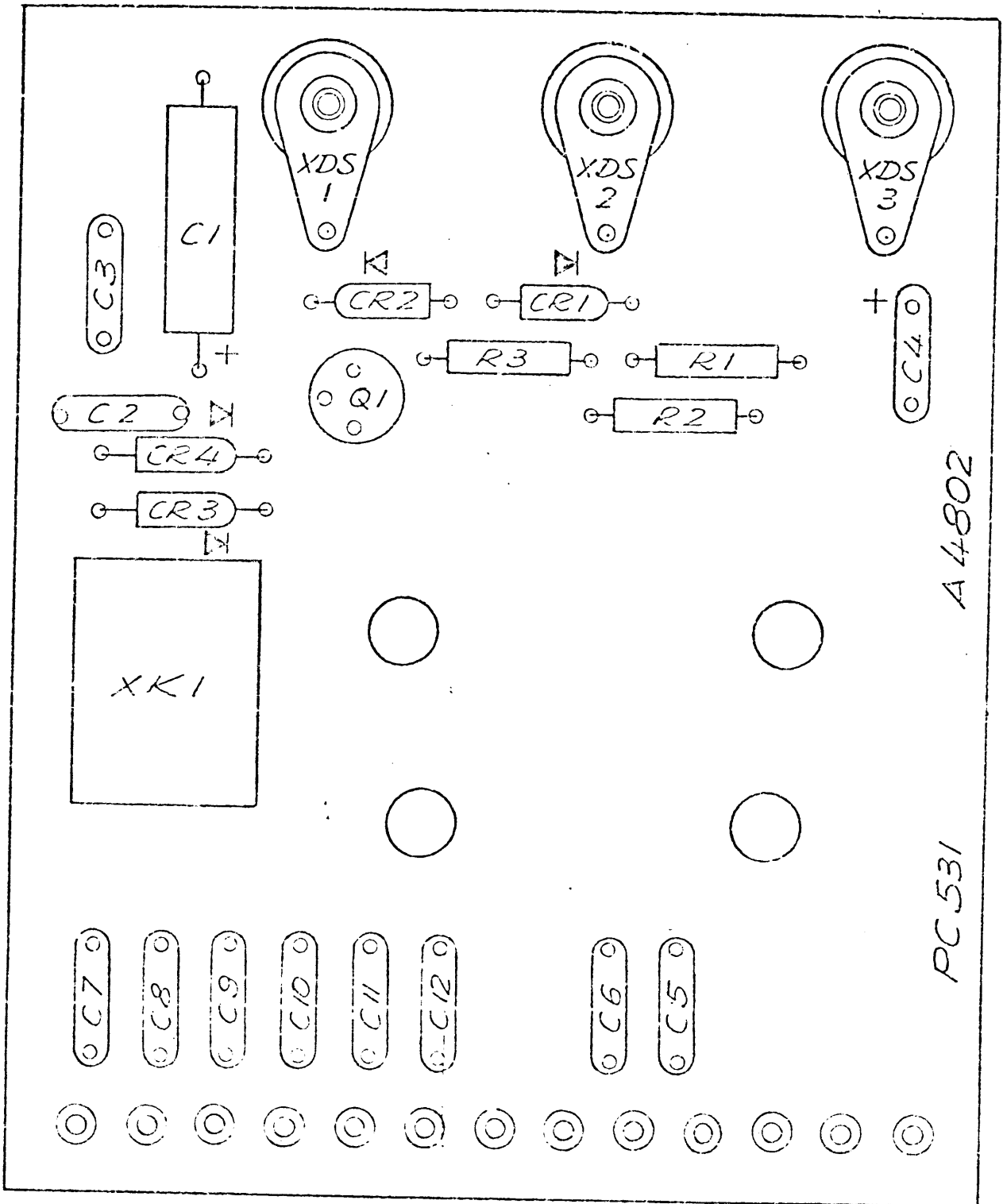


Figure 7-25. Component Location, A4003 (A4802)

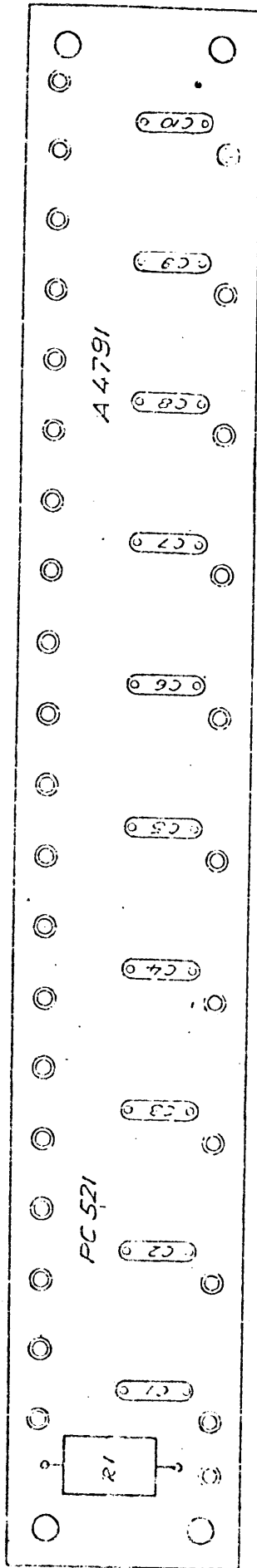


Figure 7-26. Component Location,
A5001 (A4791)

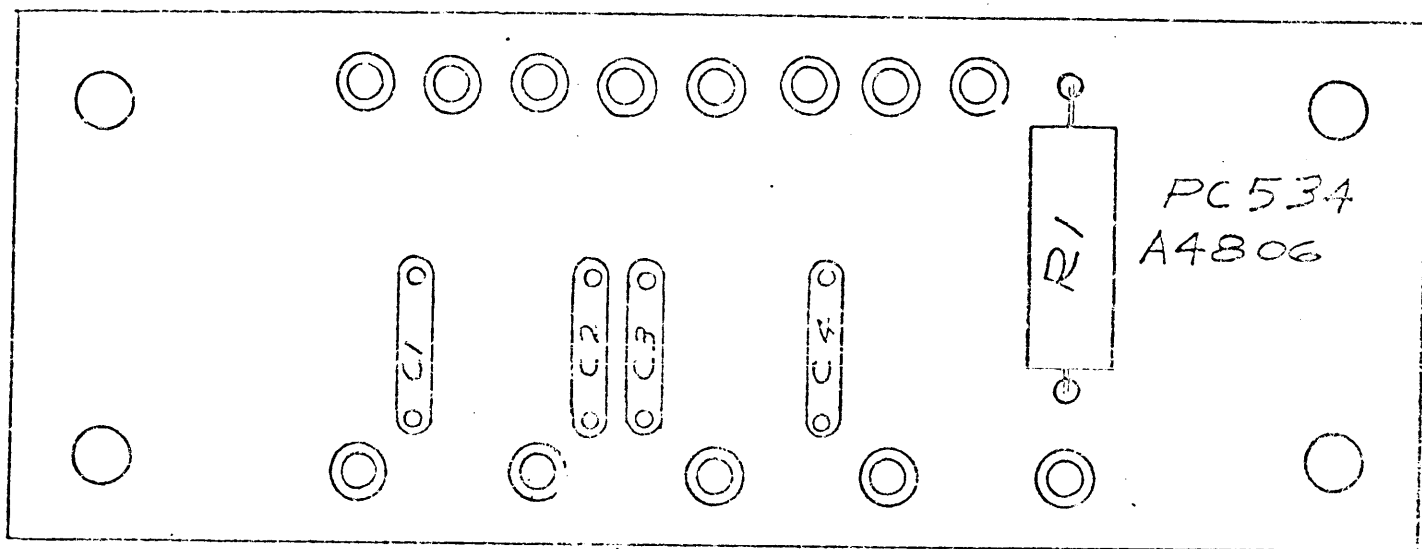


Figure 7-27. Component Location,
A5002 (A4806)