A P P E N D I X

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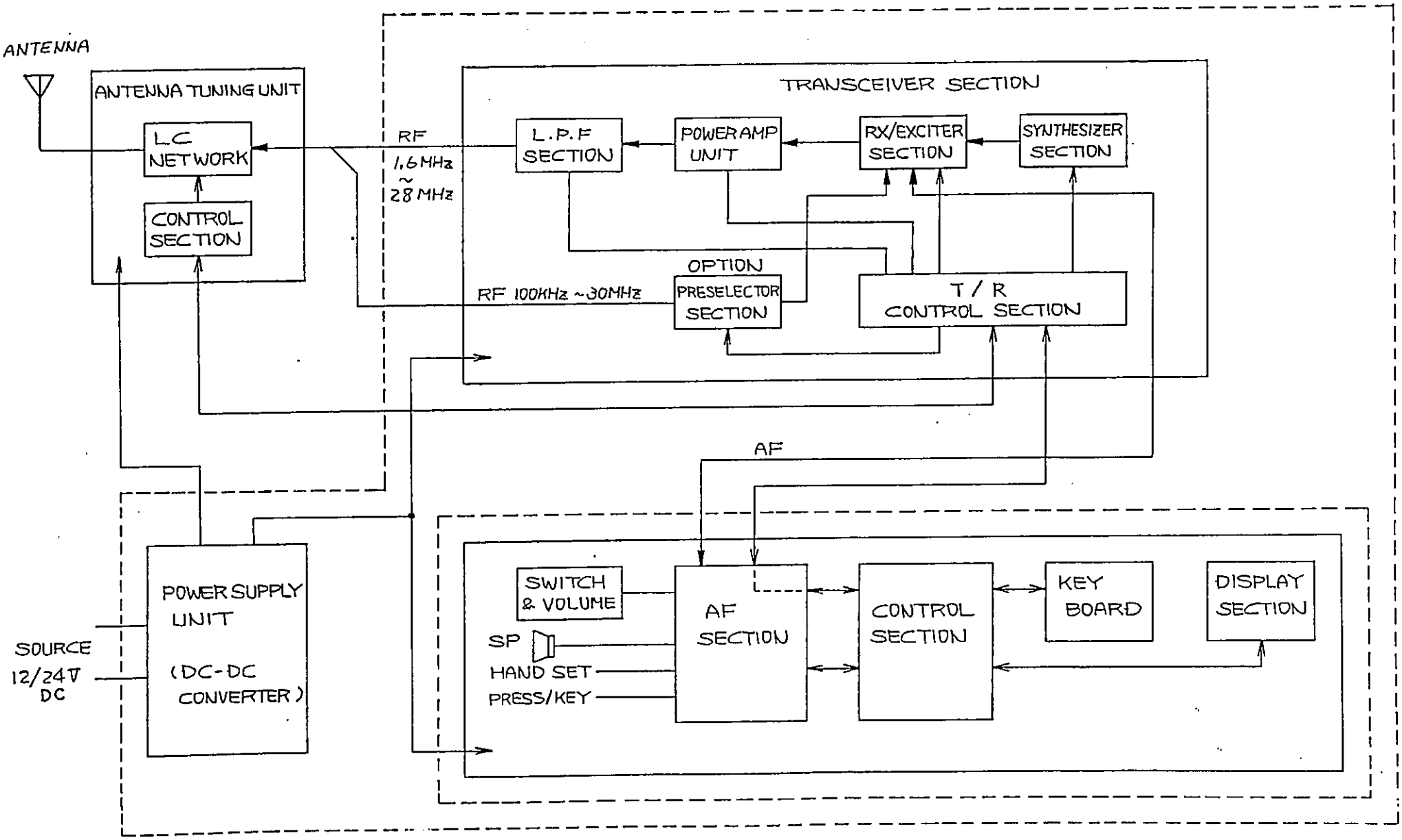
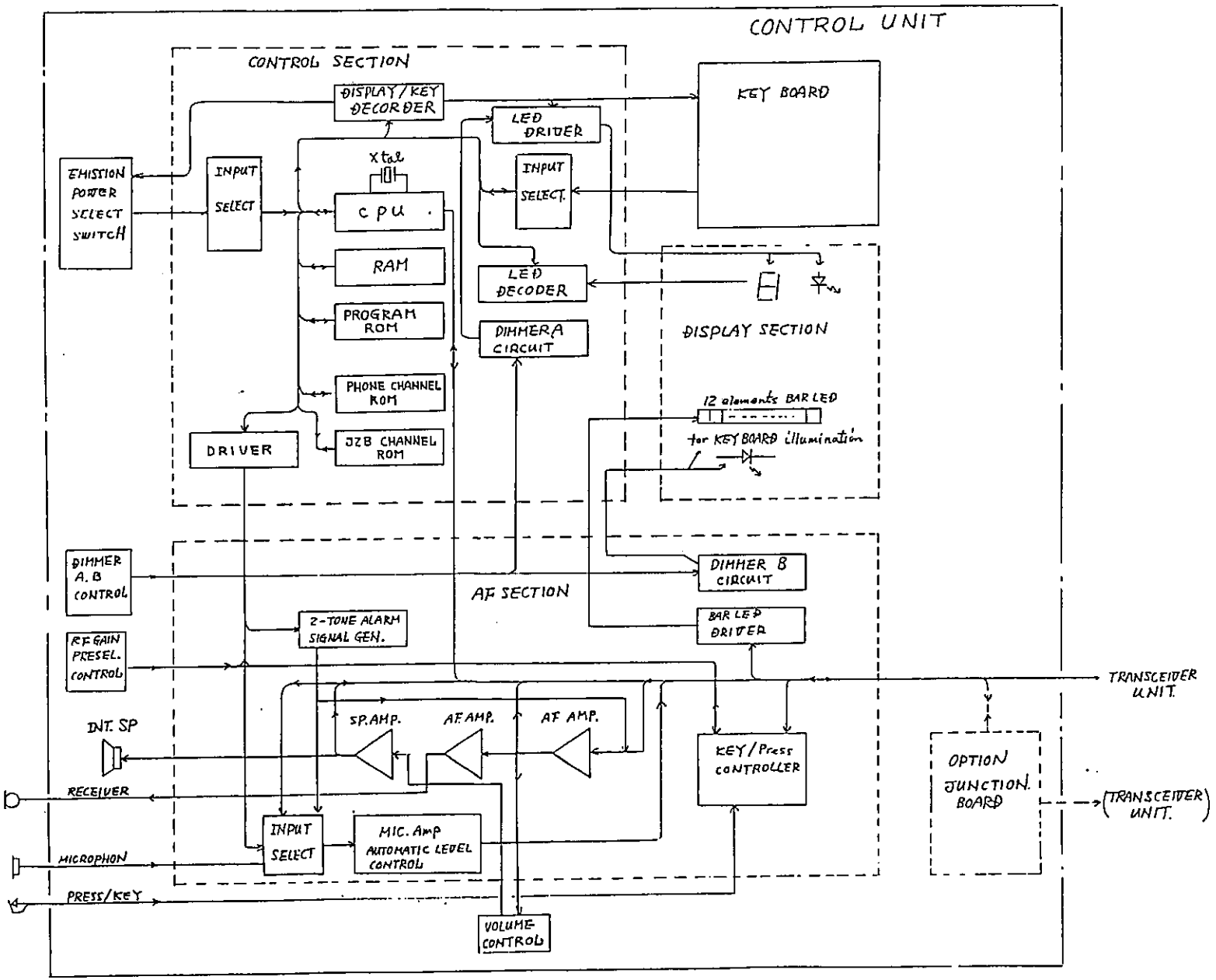
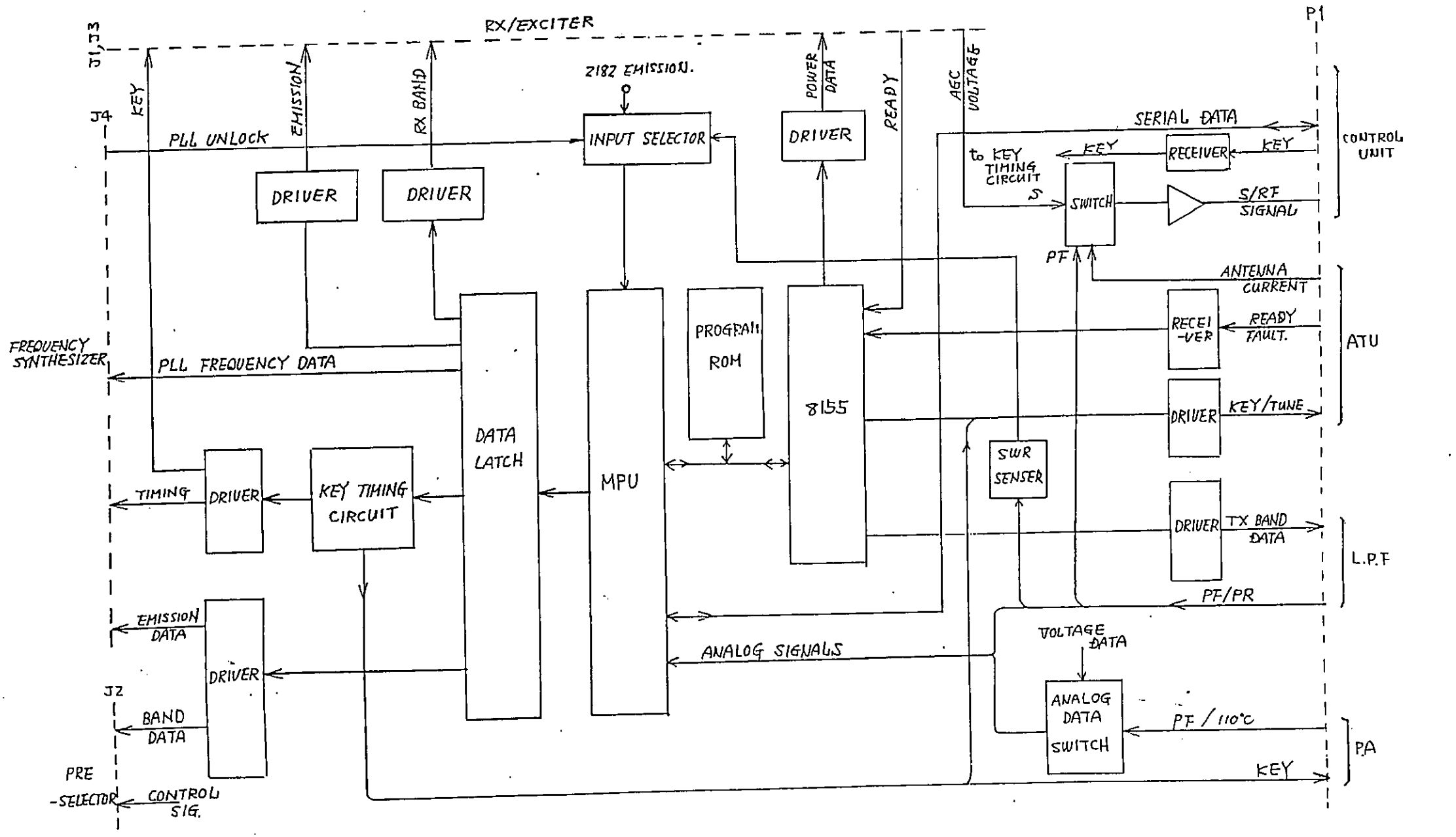


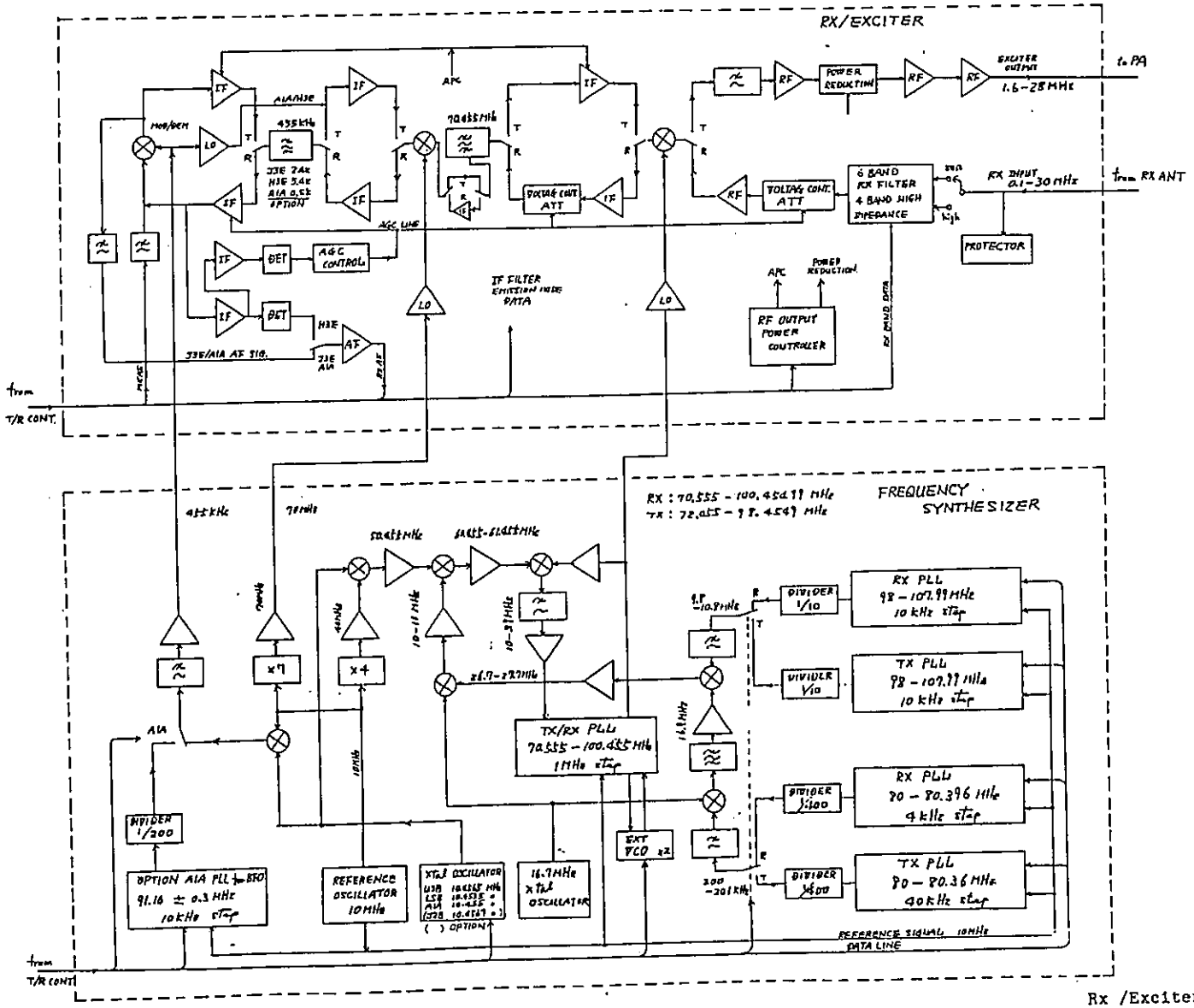
System Block Diagram



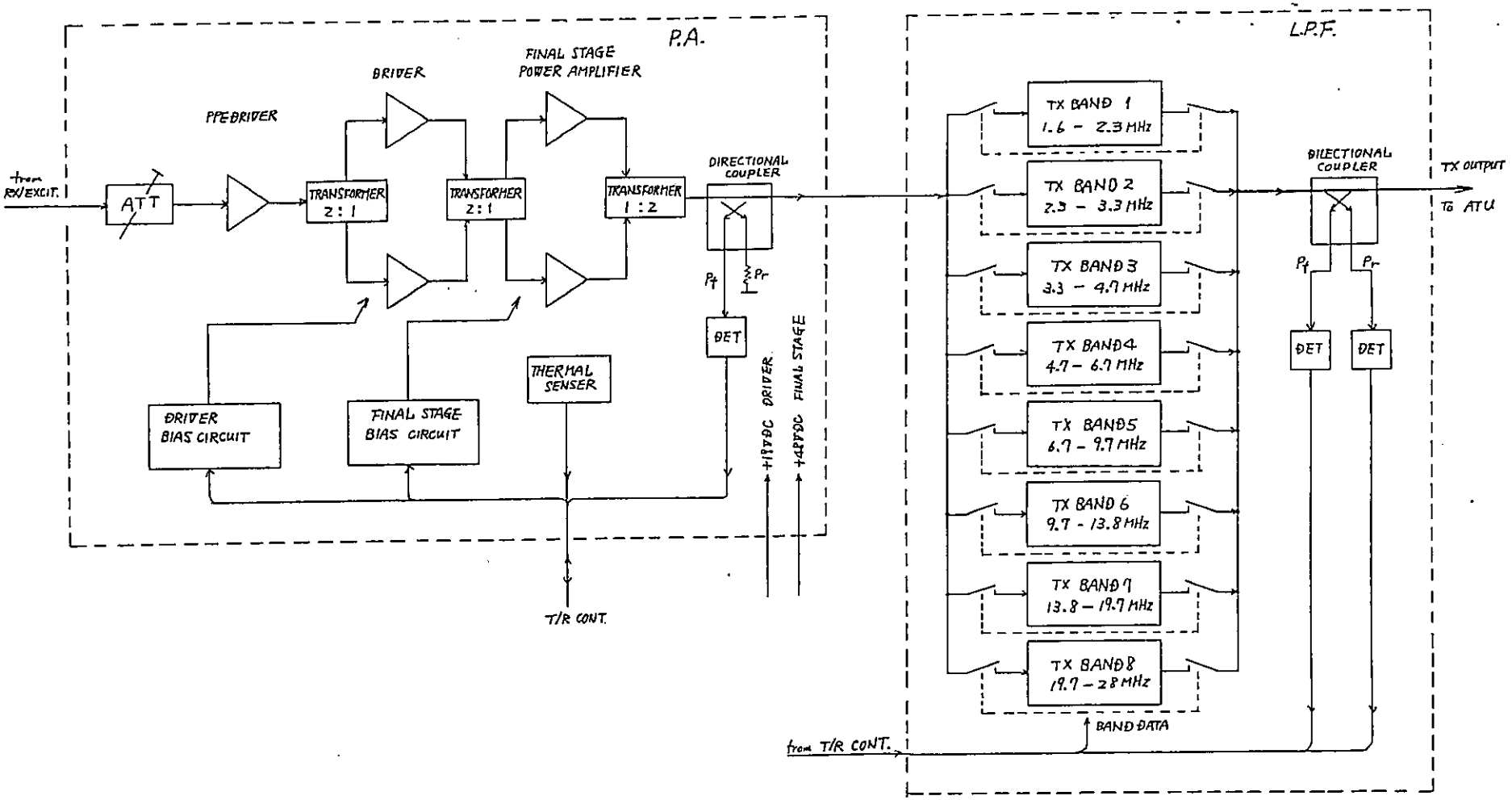
Control Unit



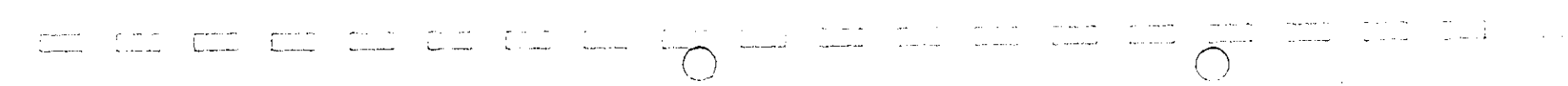
T/R CONTROL BLOCK DIAGRAM

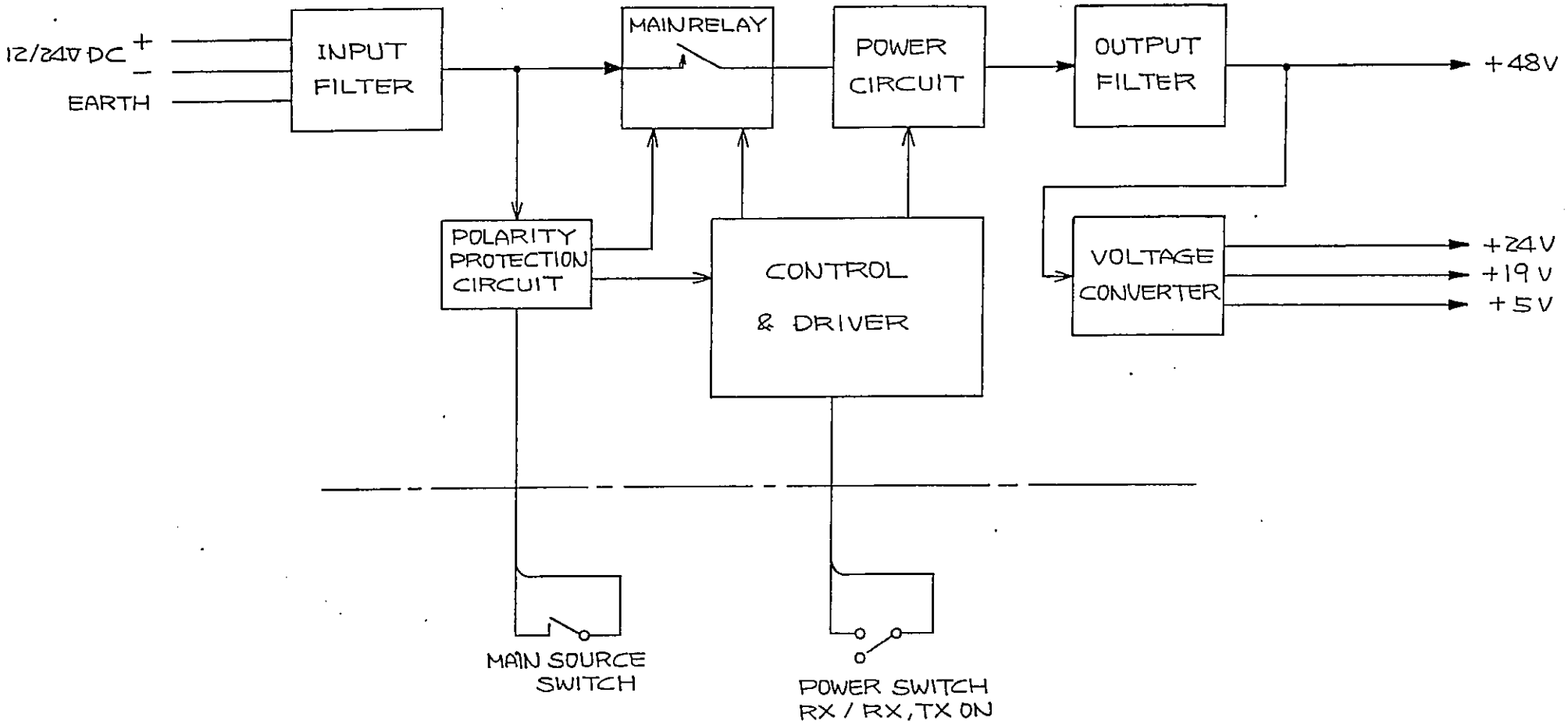


Rx /Exciter &
Frequency Synthesizer (PLL)

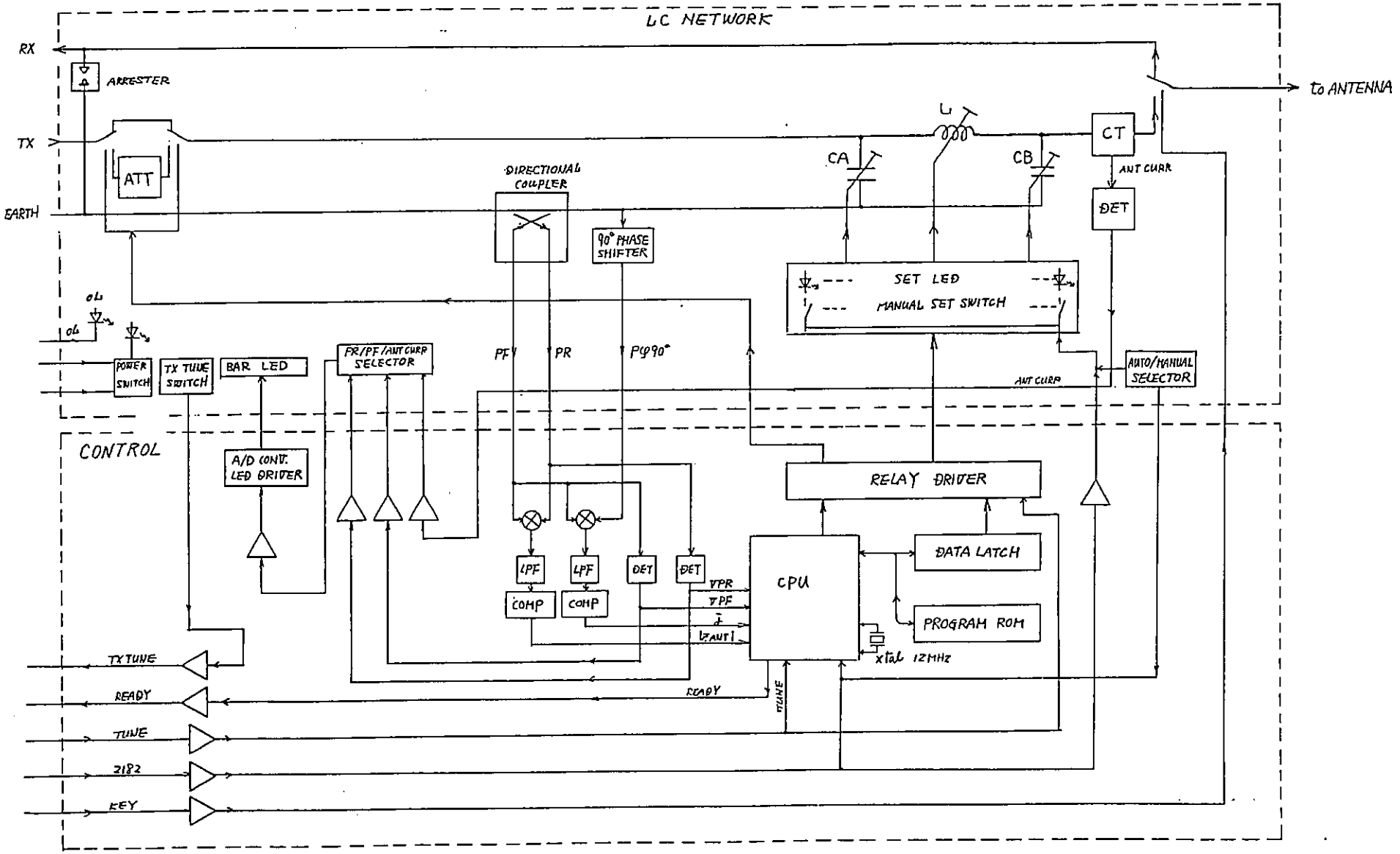

P.A.
L.P.F.
PREDRIVER
DRIVER
FINAL STAGE
POWER AMPLIFIER
from RX/EXCIT.
ATT
TRANSFORMER 2:1
TRANSFORMER 2:1
TRANSFORMER 1:2
DIRECTIONAL COUPLER
Pf
Pr
DET
THERMAL SENSER
DRIVER BIAS CIRCUIT
FINAL STAGE BIAS CIRCUIT
+18VDC DRIVER
+48VDC FINAL STAGE
T/R CONT.
TX BAND 1
1.6 - 2.3 MHz
TX BAND 2
2.3 - 3.3 MHz
TX BAND 3
3.3 - 4.7 MHz
TX BAND 4
4.7 - 6.7 MHz
TX BAND 5
6.7 - 9.7 MHz
TX BAND 6
9.7 - 13.8 MHz
TX BAND 7
13.8 - 19.7 MHz
TX BAND 8
19.7 - 28 MHz
BAND DATA
from T/R CONT.
BILECTIONAL COUPLER
TX OUTPUT
To ATU
DET
DET

PA & LPF

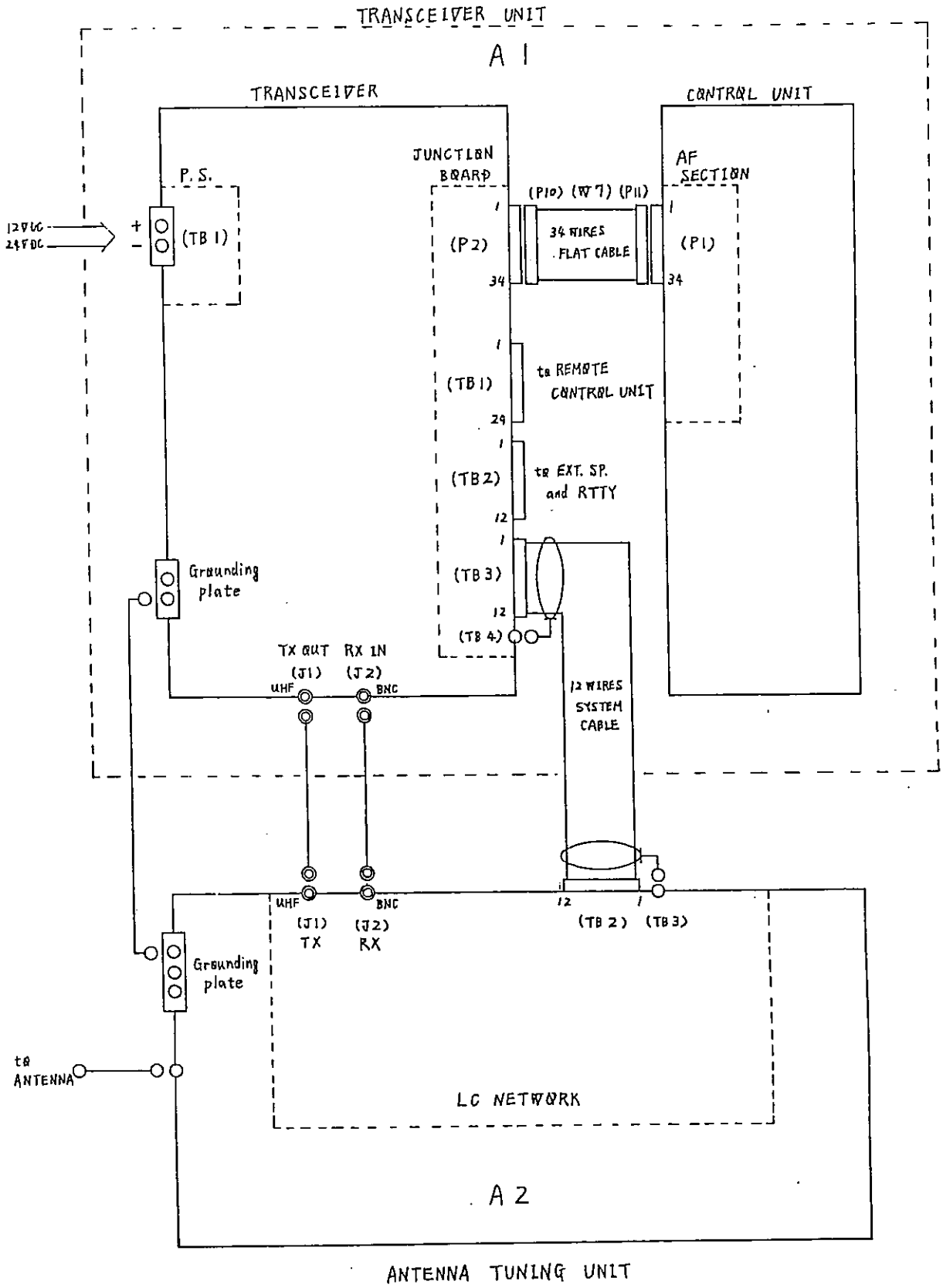




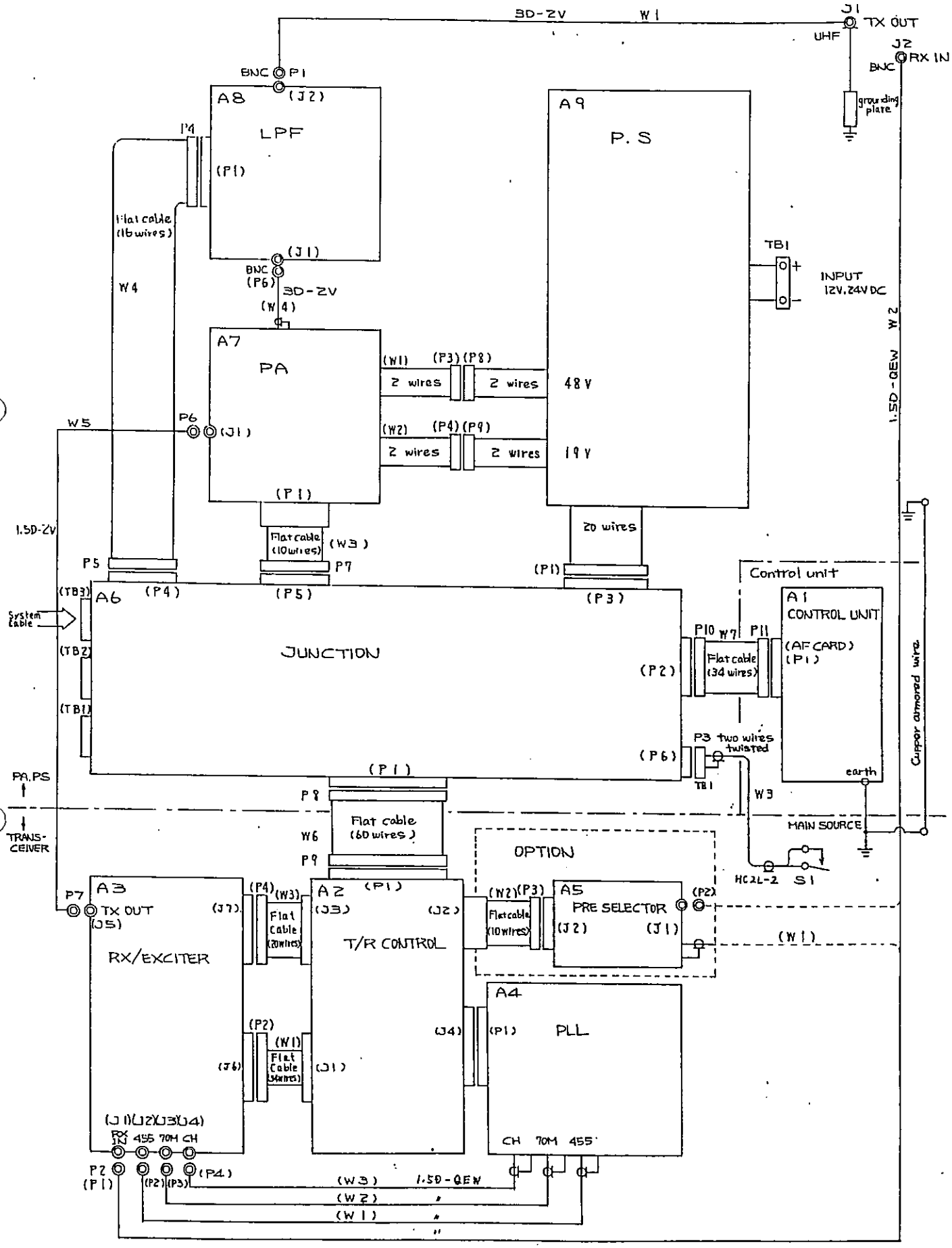
Power supply



Antenna Tuning Unit

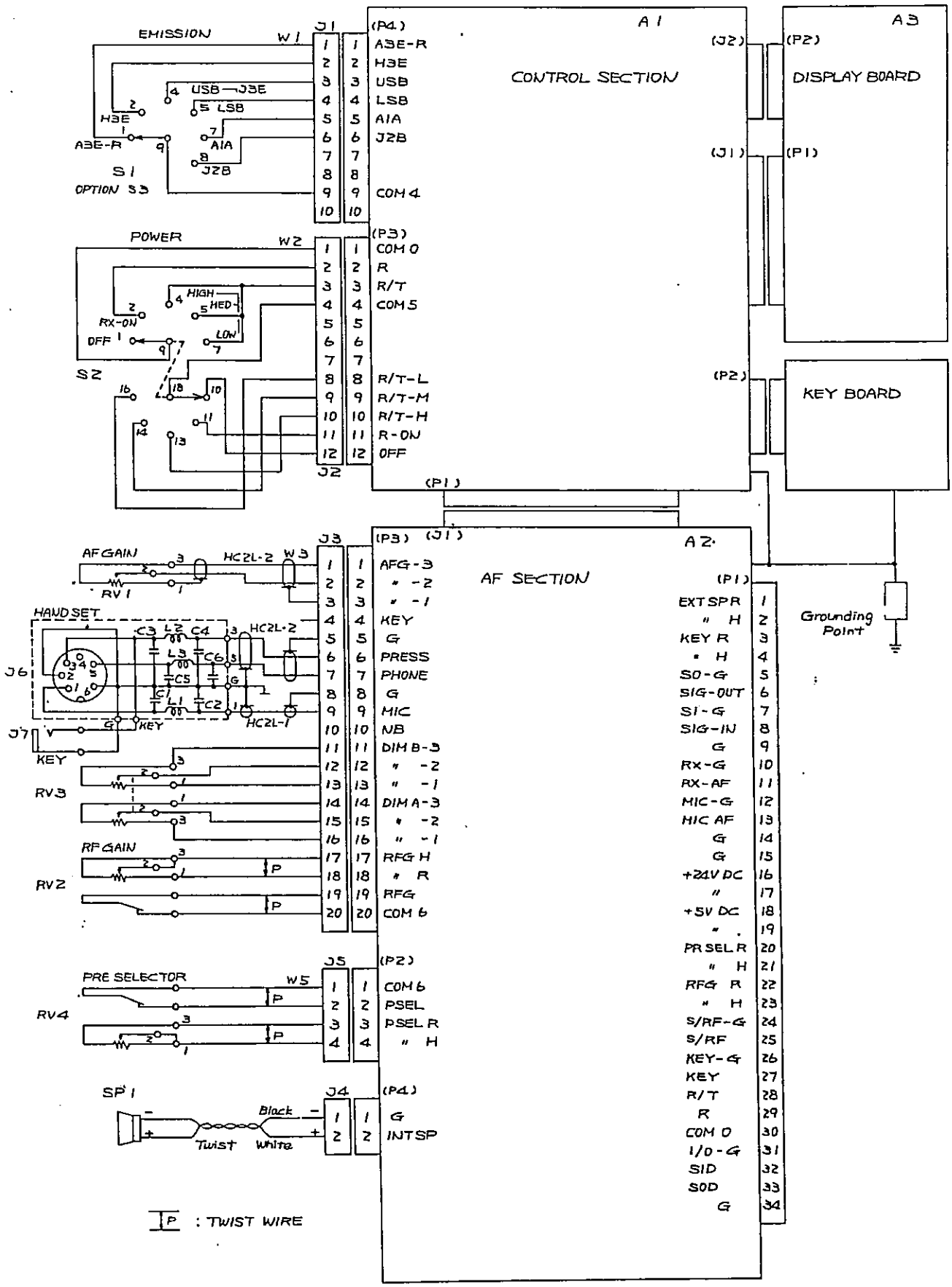


System Diagram
Version 2

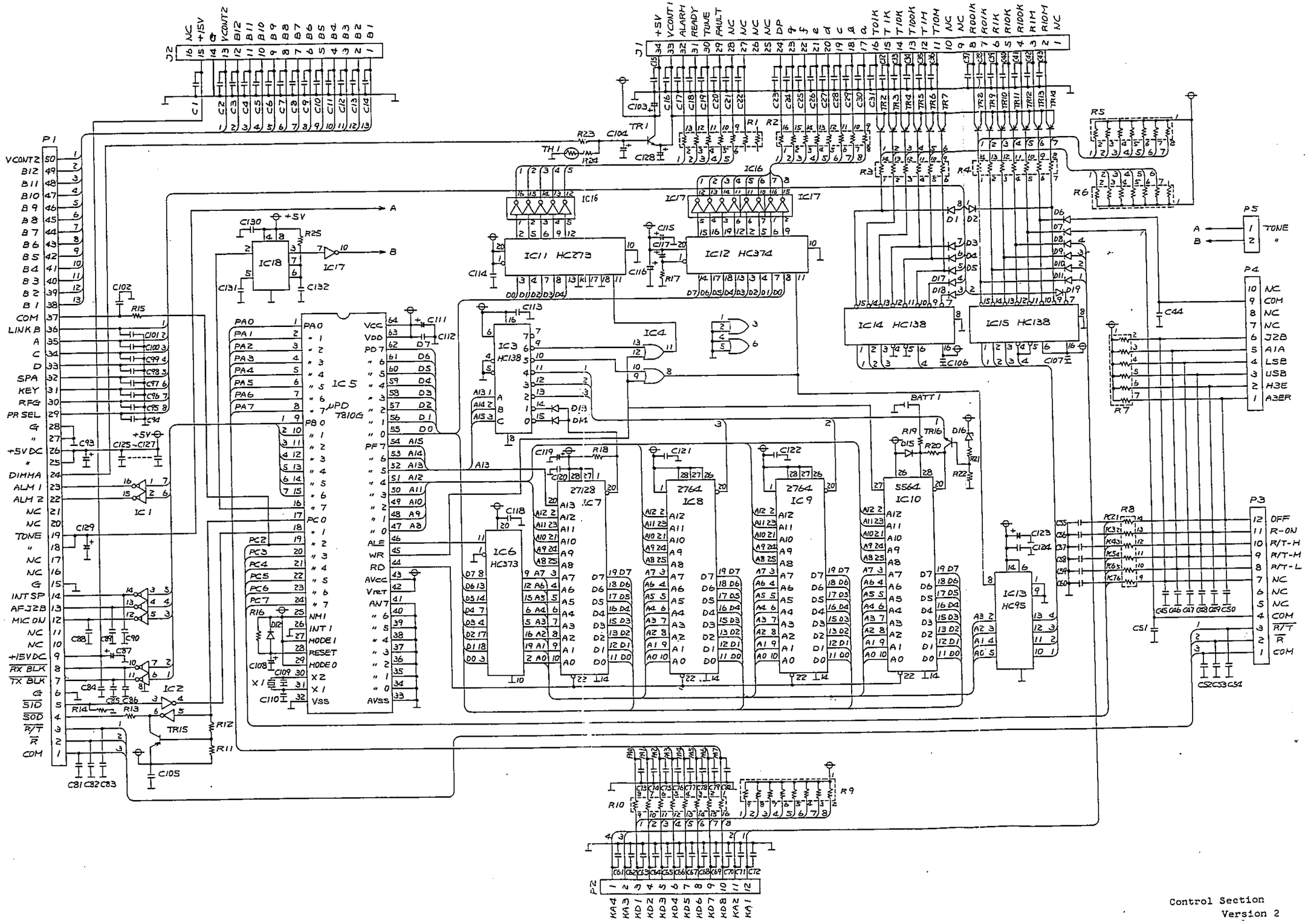


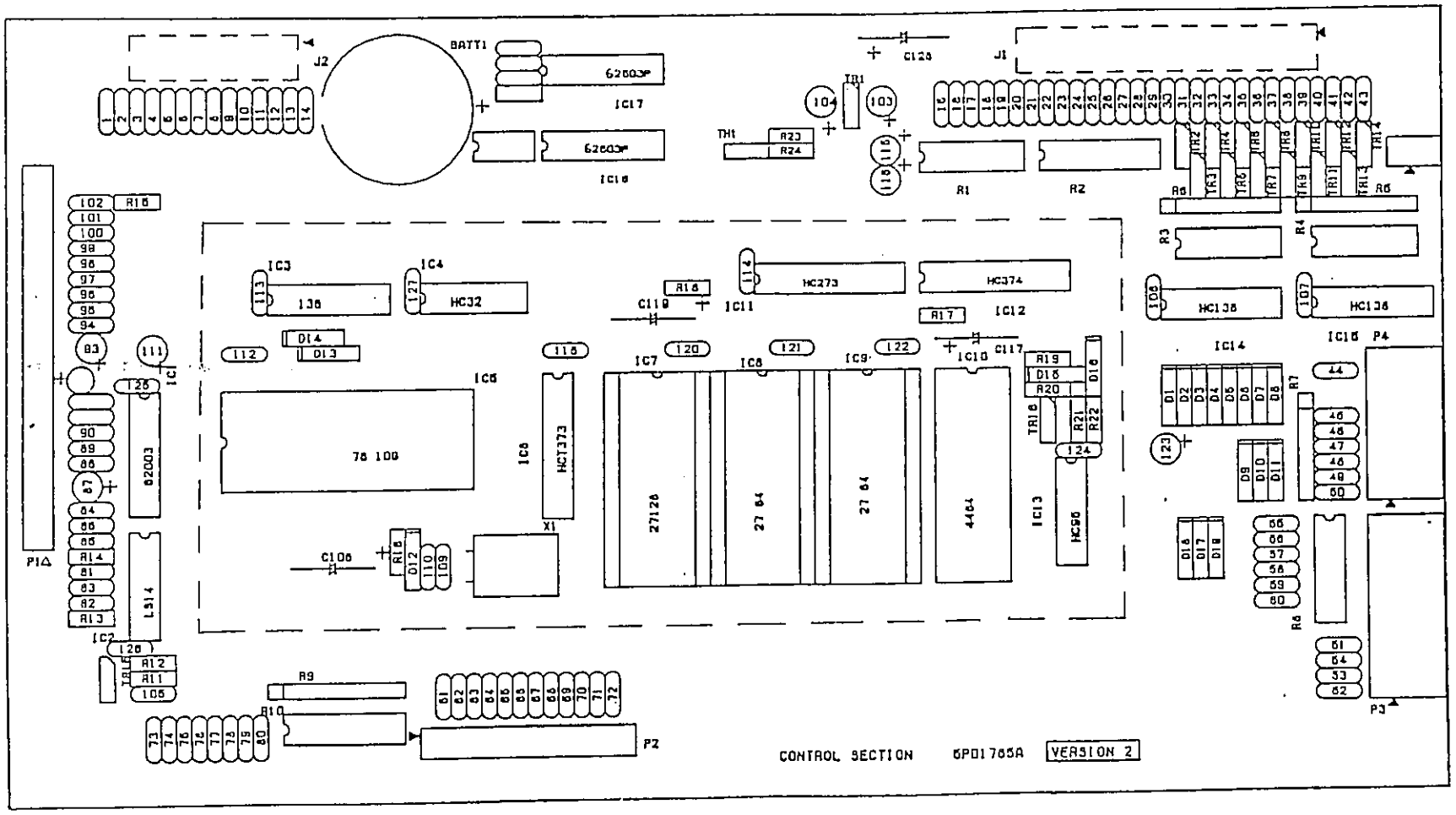
Simbol numbers in the parentheses are included in each block.

General Diagram
Version 2

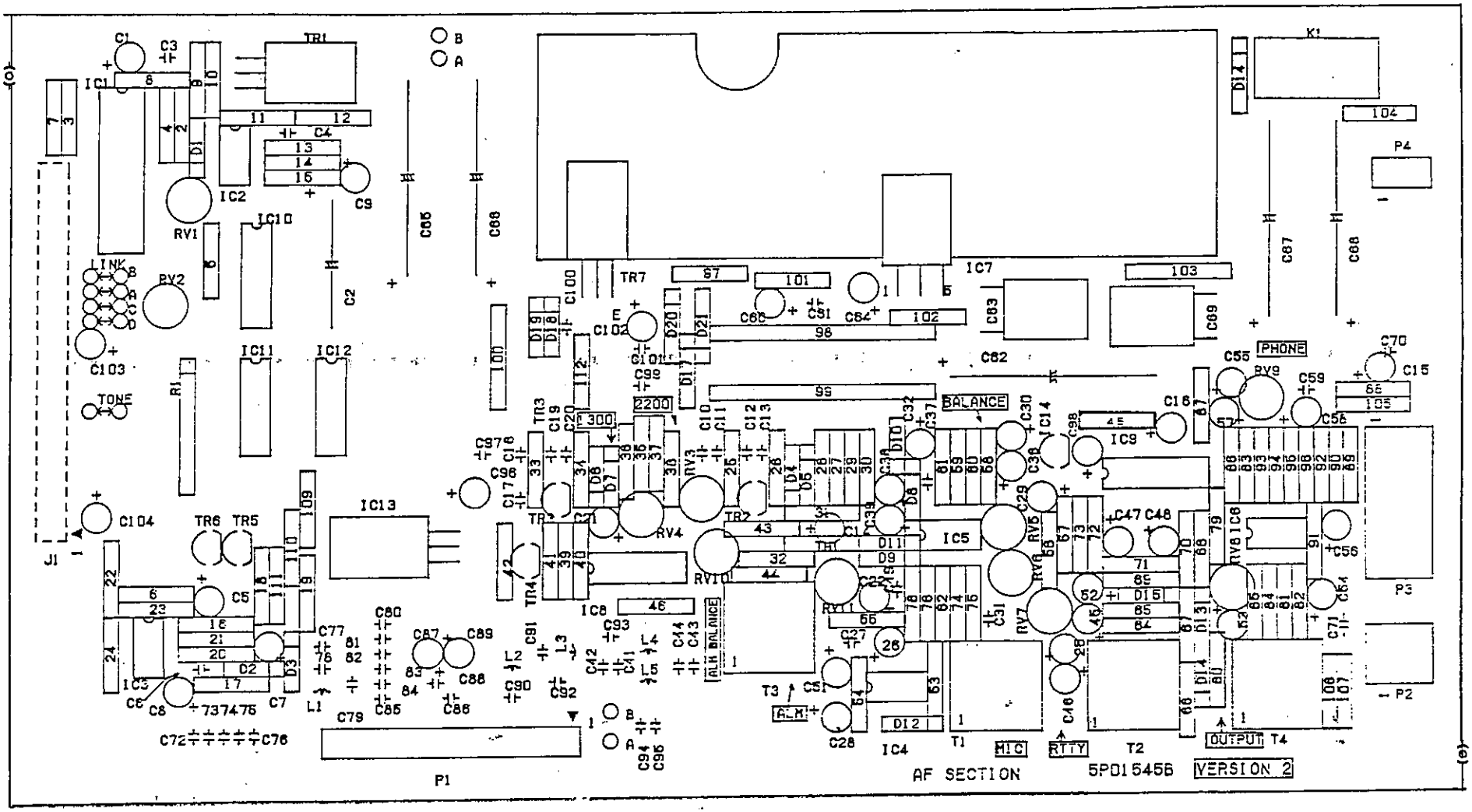


Control Unit
Version 2

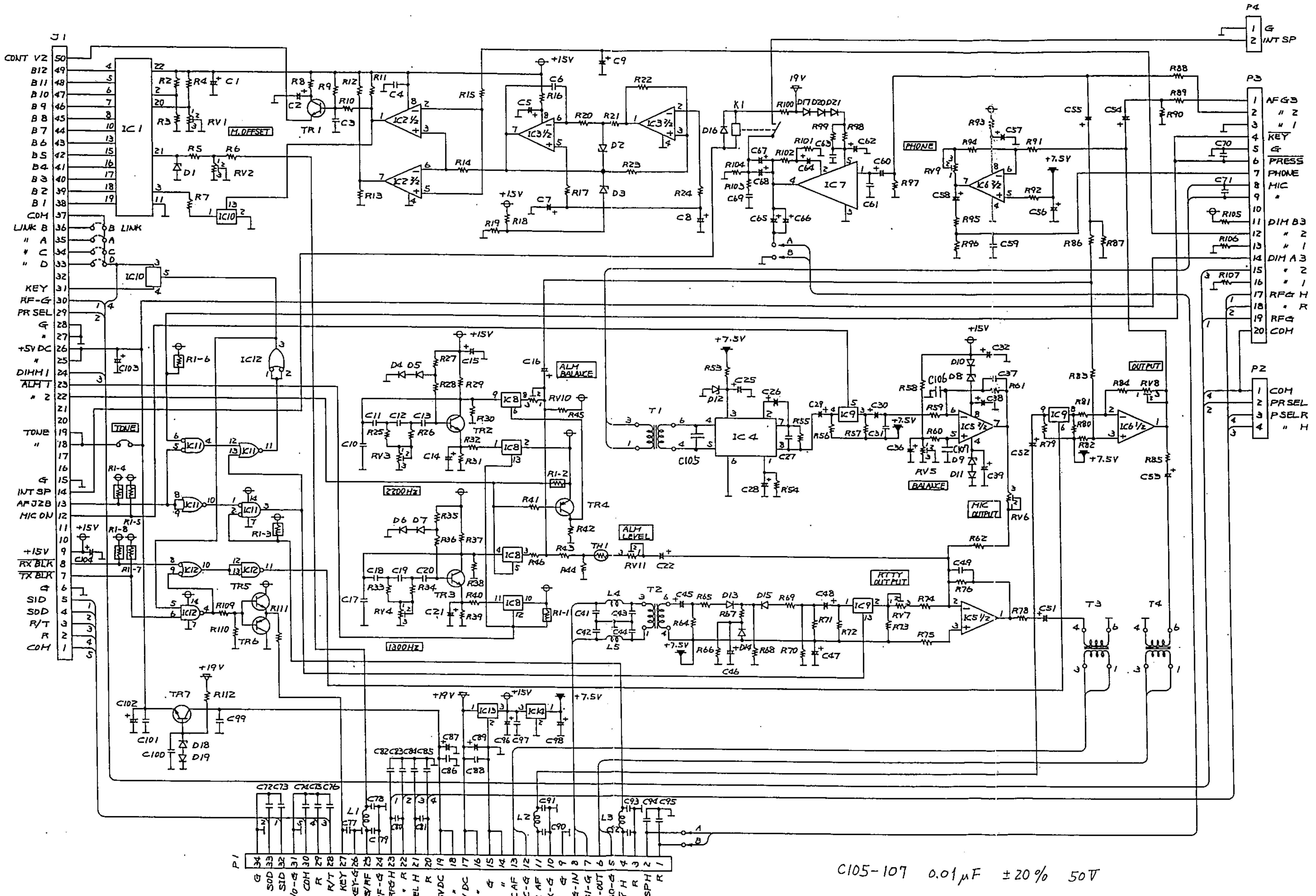

P1
J2
J1
IC1
IC2
IC3 HC138
IC4
IC5 μPD 7810G
IC6 HC373
IC7 27128
IC8 2764
IC9 2764
IC10 5564
IC11 HC273
IC12 HC374
IC13 HC95
IC14 HC138
IC15 HC138
IC16
IC17
IC18
TR1
TR2
TR3
TR4
TR5
TR6
TR7
TR8
TR9
TR10
TR11
TR12
TR13
TR14
TR15
TR16
TH1
R1
R2
R3
R4
R5
R6
R7
R8
R9
R10
R11
R12
R13
R14
R15
R16
R17
R18
R19
R20
R21
R22
R23
R24
R25
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
D13
D14
D15
D16
D17
D18
D19
BATT 1
P2
P3
P4
P5
VCONT2
B12
B11
B10
B9
B8
B7
B6
B5
B4
B3
B2
B1
COM
LINK B
A
C
D
SPA
KEY
RPG
PR SEL
G
+5V DC
DIMMA
ALM 1
ALM 2
NC
TONE
INT SP
AFJ2B
MIC ON
+15V DC
RX BLK
TX BLK
S1D
S0D
R/T
R
+5V
+15V
ALARM
READY
FAULT
DP
TONE
TONE
OFF
R-ON
R/T-H
R/T-M
R/T-L
COM
A1A
LSB
USB
H3E
A3ER
Control Section
Version 2



Control section
PCB lay-out

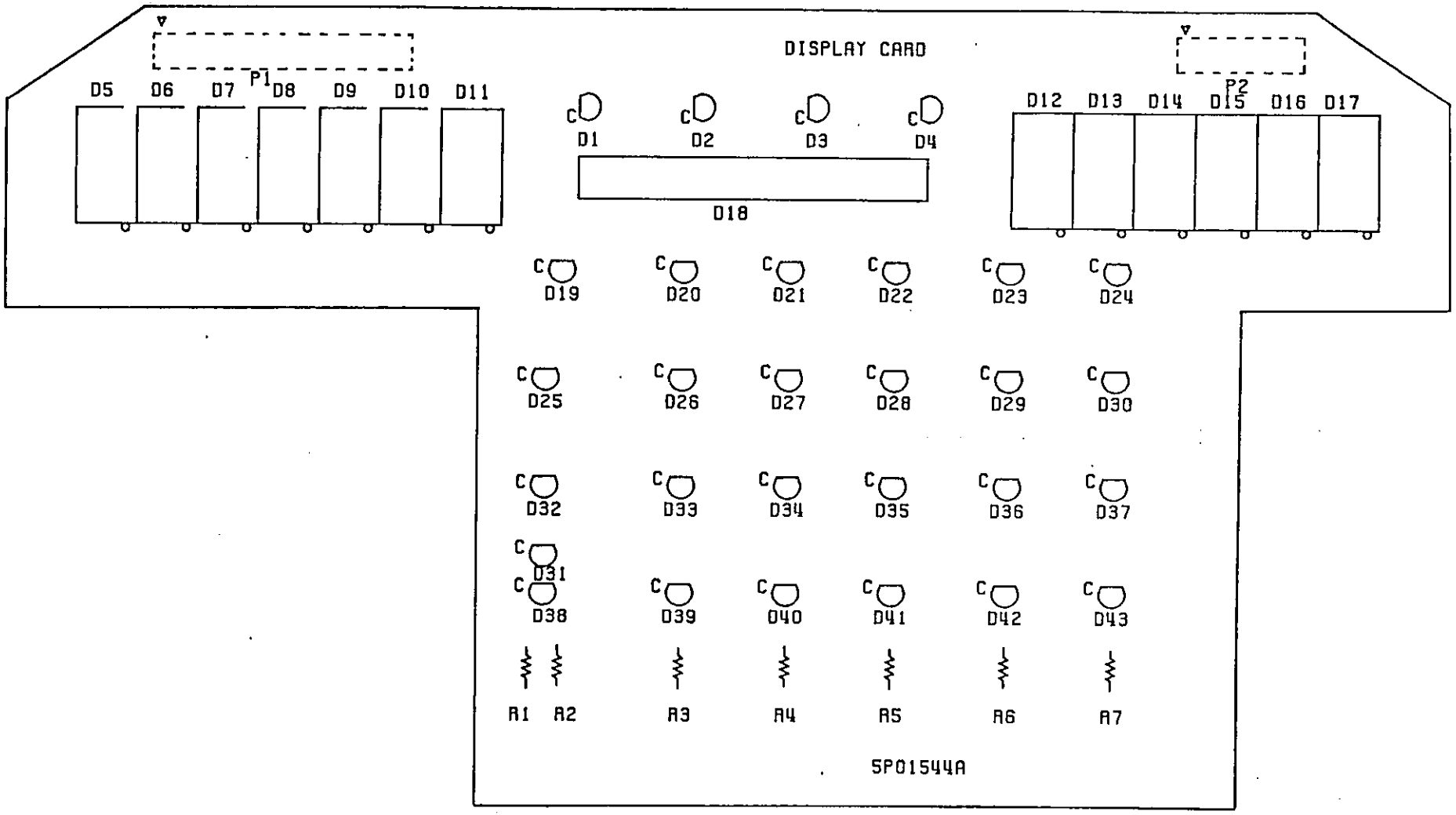


AF section
PCB lay-out

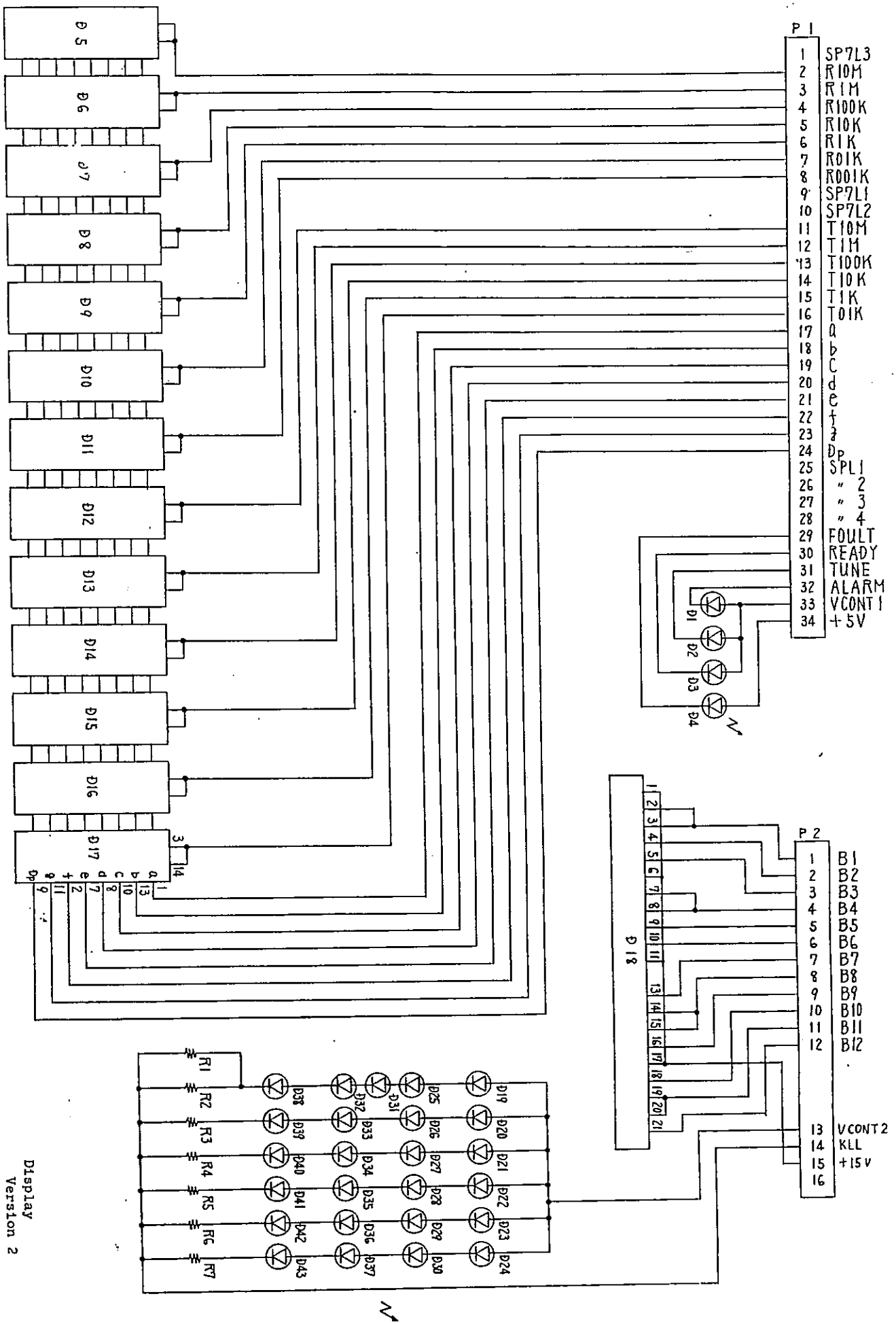

J1
CONT V2
B12
B11
B10
B9
B8
B7
B6
B5
B4
B3
B2
B1
COM
LINK B
" A
" C
" D
KEY
RF-G
PR SEL
G
+5V DC
DIHM 1
ALM 1
" 2
TONE
INT SP
AFJ2B
MIC ON
+15V
RX BLK
TX BLK
SID
SOD
R/T
R
COM
IC1
LINK
M.OFFSET
TR1
IC2 1/2
IC3 1/2
IC10
IC12
IC11
TONE
K1
IC7
PHONE
IC6 1/2
ALM BALANCE
IC8
2200Hz
1300Hz
TR2
TR3
TR4
TR5
TR6
TR7
ALM LEVEL
T1
IC4
IC9
IC5 1/2
BALANCE
MIC OUTPUT
RTTY OUTPUT
OUTPUT
T2
T3
T4
IC13
IC14
P4
G
INT SP
P3
AF G3
" 2
" 1
KEY
G
PRESS
PHONE
MIC
DIM B3
DIM A3
RFG H
" R
RFG
COM
P2
COM
PR SEL
PSEL R
" H
P1
G
SOD
SID
I/O-G
COM
R
R/T
KEY-G
S/RF
S/RF-G
RFG H
" R
PRSEL H
" R
+6.5V DC
+19V DC
G
MIC AF
MIC-G
RX AF
RX-G
SIG-IN
SI-G
SIG-OUT
SO-G
KEY H
" R
EXTSPH
" R

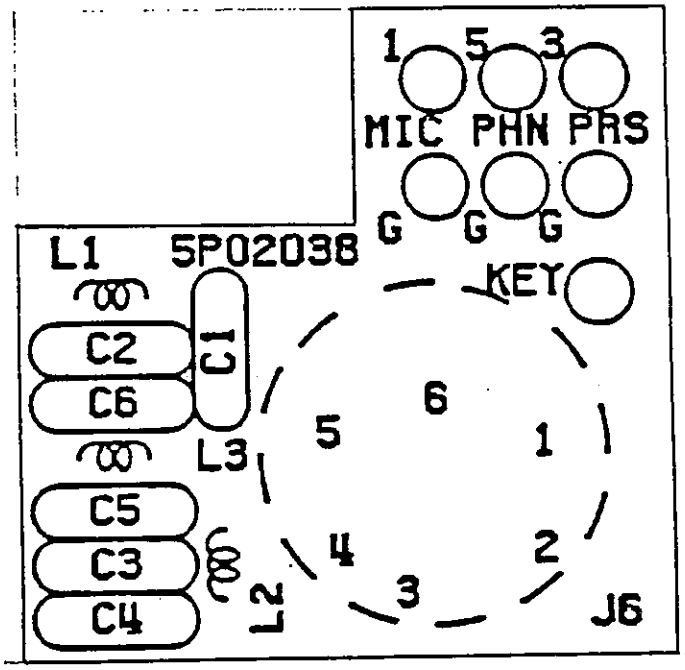
C105-107 0.01μF ±20% 50V

AF Section
Version 2

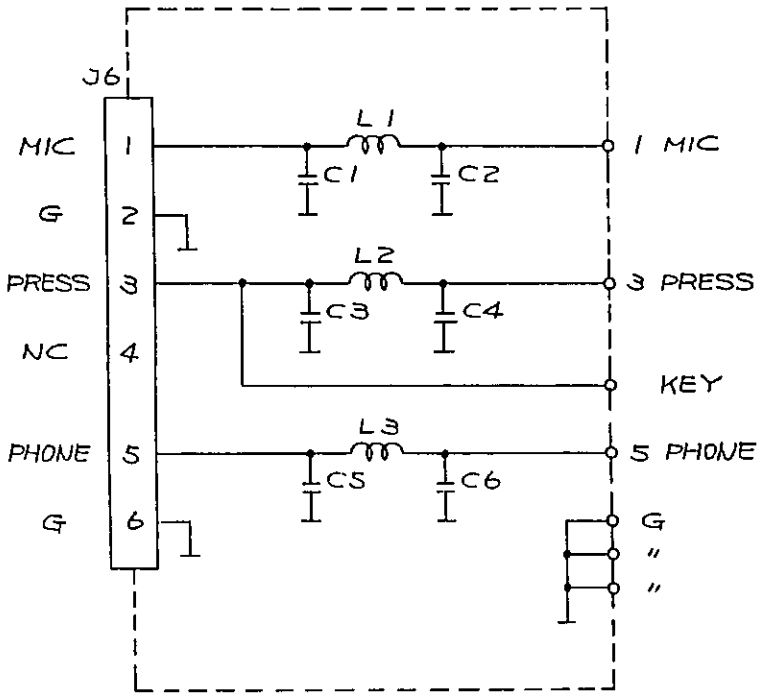


Display card
PCB lay-out

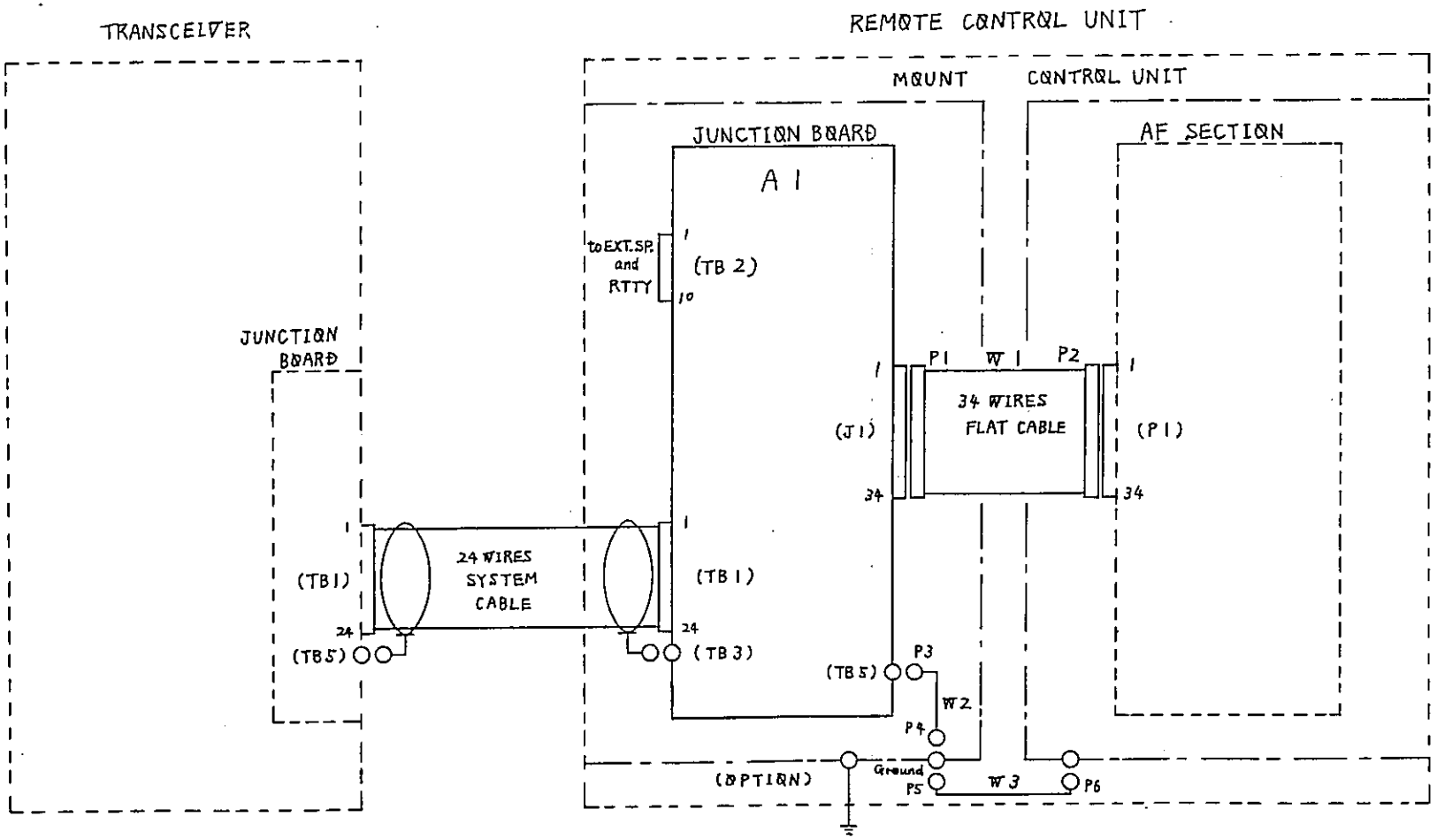

P1
1 SP7L3
2 R10M
3 R1M
4 R100K
5 R10K
6 R1K
7 R01K
8 R001K
9 SP7L1
10 SP7L2
11 T10M
12 T1M
13 T100K
14 T10K
15 T1K
16 T01K
17 a
18 b
19 C
20 d
21 e
22 f
23 g
24 Dp
25 SPL1
26 " 2
27 " 3
28 " 4
29 FOULT
30 READY
31 TUNE
32 ALARM
33 VCONT1
34 +5V
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
D13
D14
D15
D16
D17
D18
P2
1 B1
2 B2
3 B3
4 B4
5 B5
6 B6
7 B7
8 B8
9 B9
10 B10
11 B11
12 B12
13 VCONT2
14 KLL
15 +15V
16
R1
R2
R3
R4
R5
R6
R7
Display
Version 2



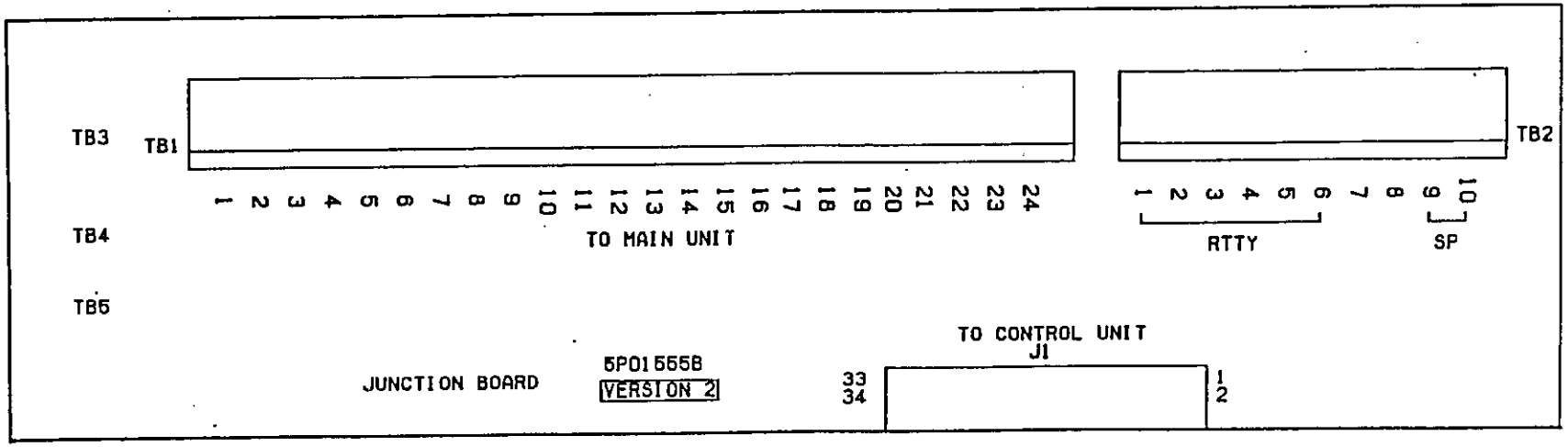
Handset filter
PCB lay-out



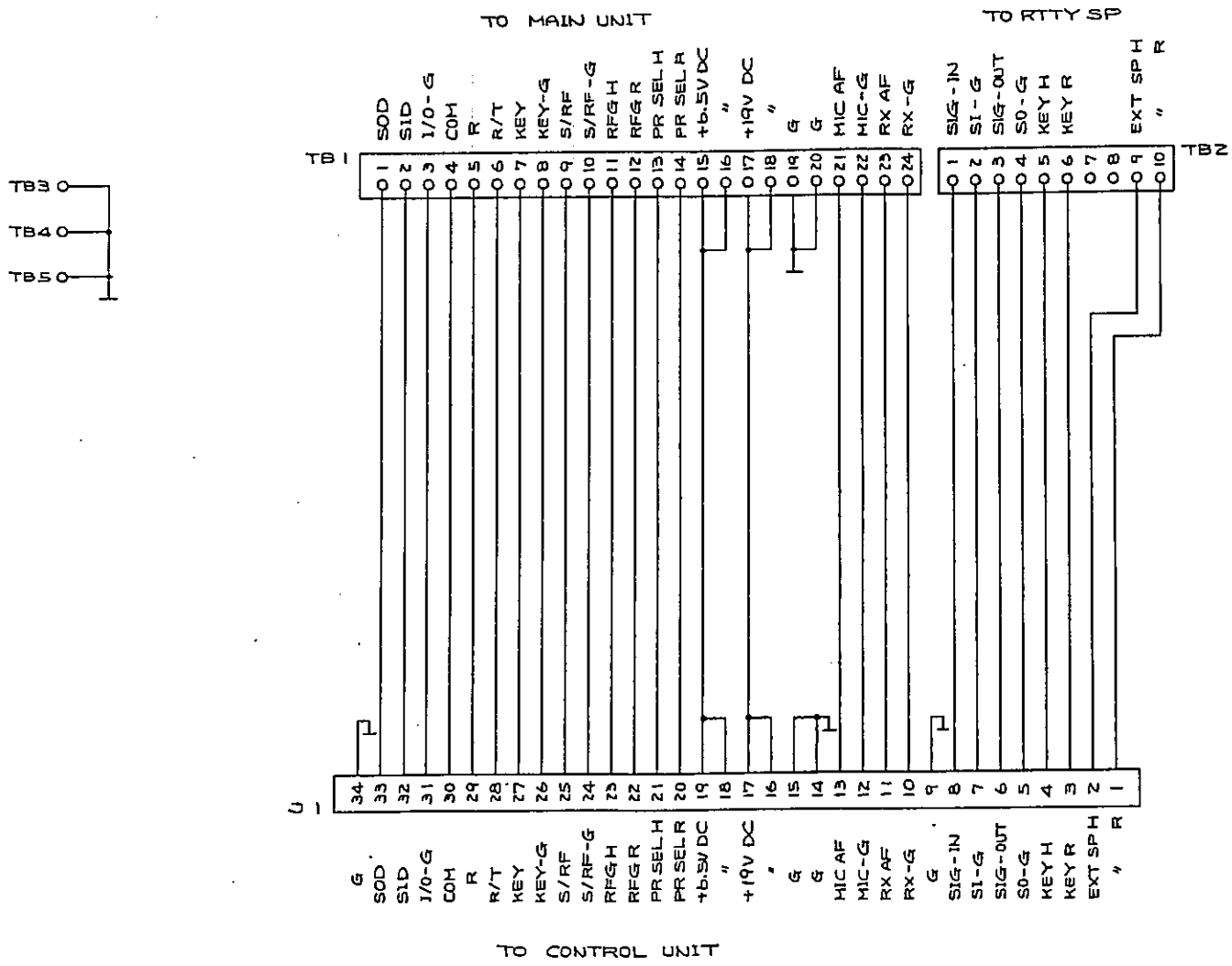
HANDSET Filter
Version 2



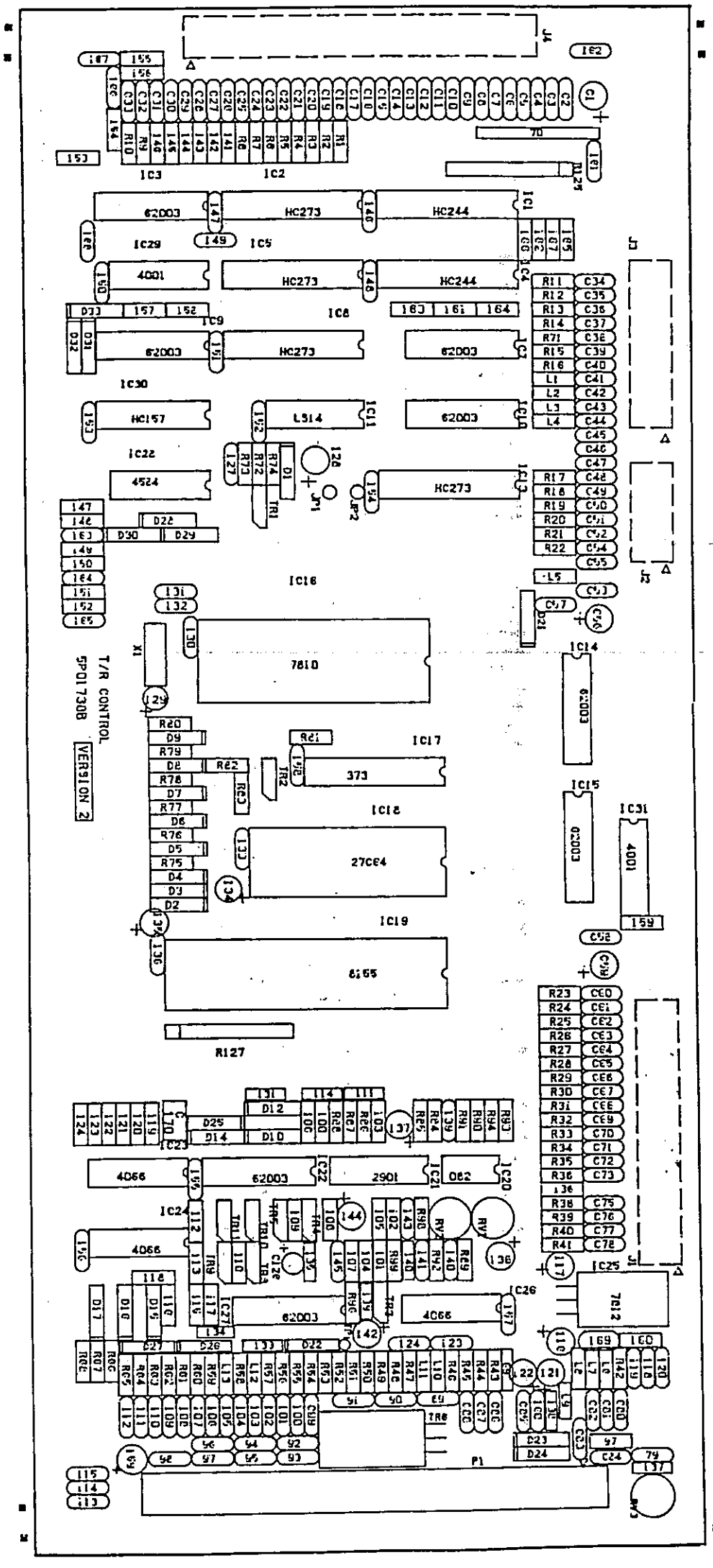
Remote Control Diagram
Version 2



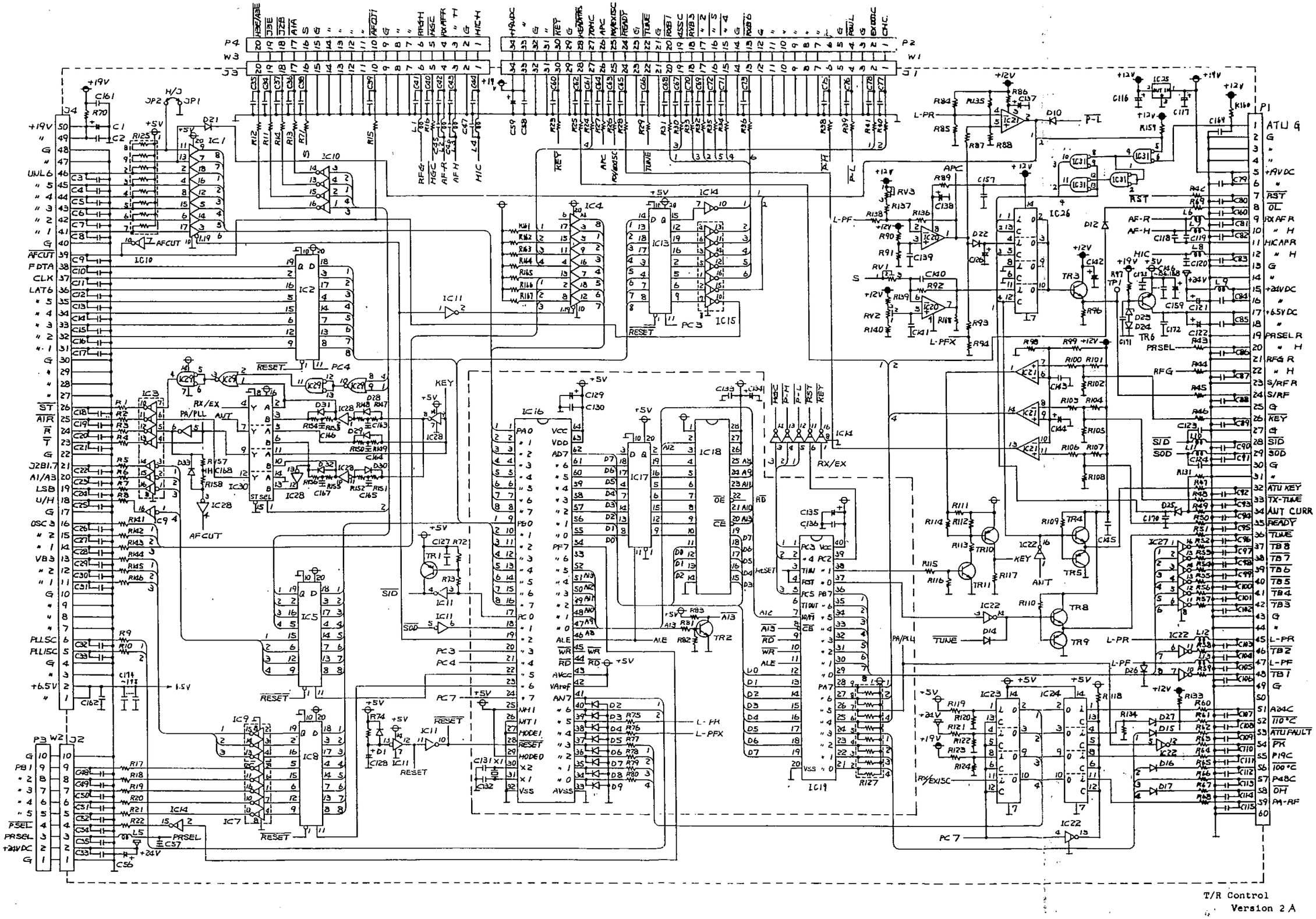
Junction board (for Remote control)
PCB lay-out

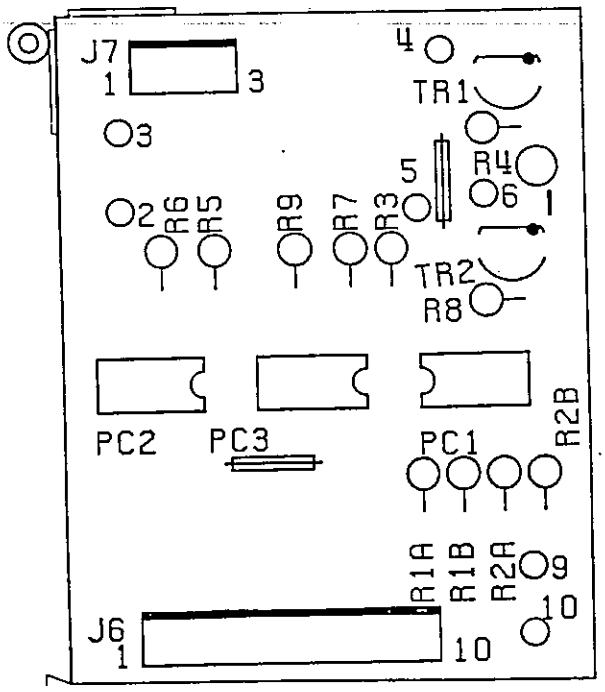


Junction (Remote Control)
Version 2

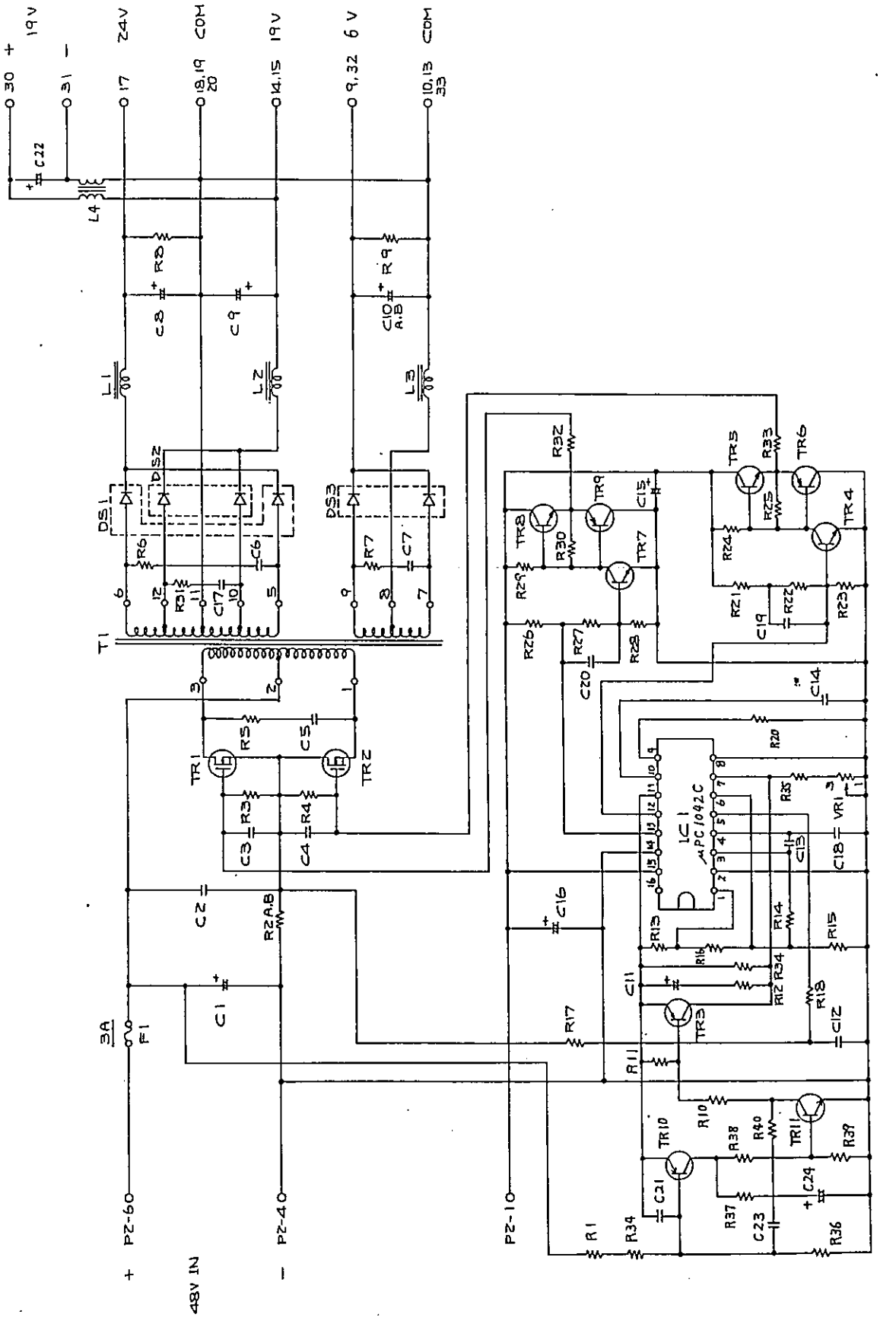


T/R control
PCB lay-out

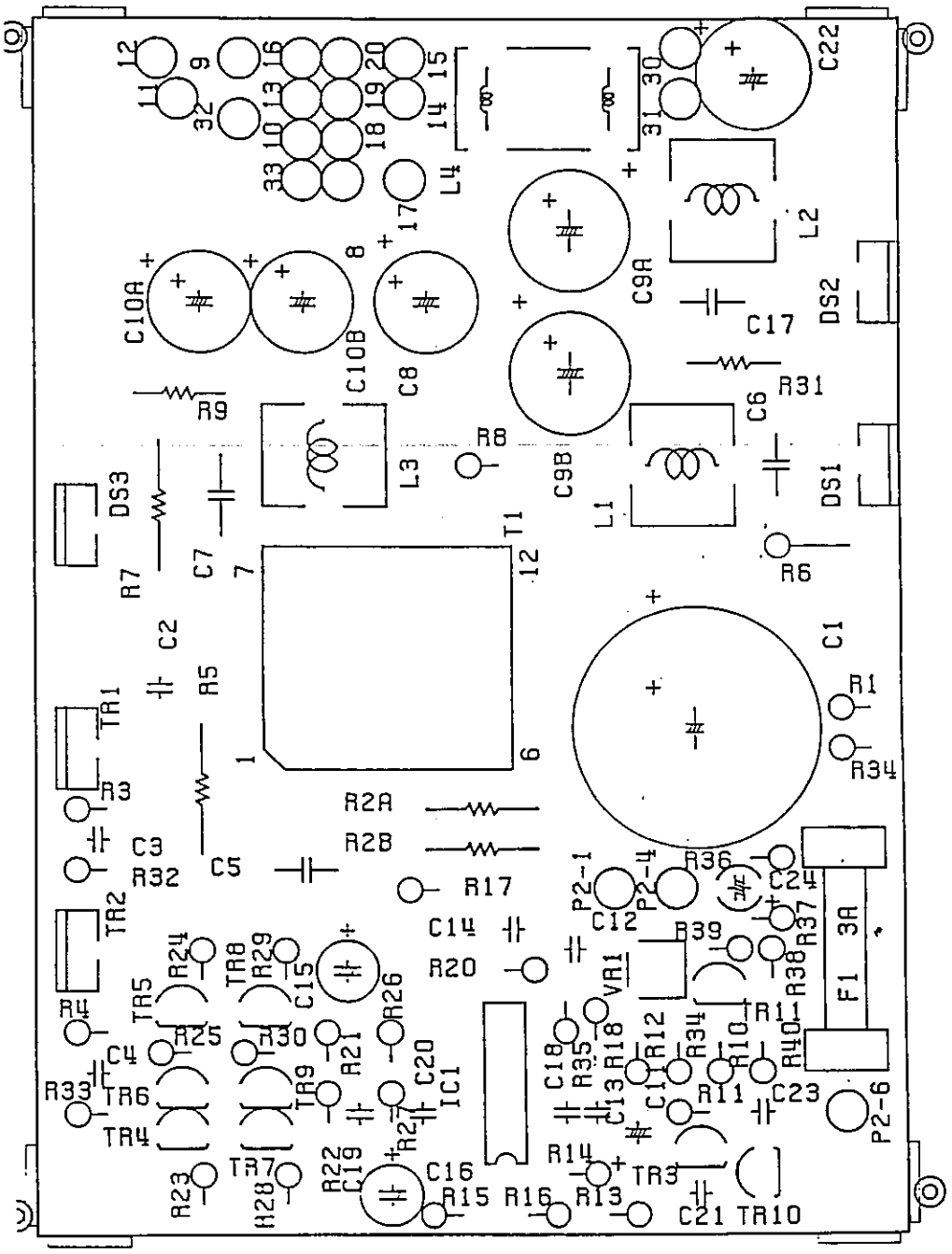

P4
P2
W3
W1
J3
J1
J4
P1
ATU G
+19V DC
RST
OL
RX AFR
AF-R
AF-H
HICAPR
HIC
+24V DC
+6.5V DC
PRSEL R
PRSEL
RFG R
RFG
S/RF R
S/RF
KEY
SID
SOD
ATU KEY
TX-TUNE
ANT CURR
READY
TUNE
TB8
TB7
TB6
TB5
TB4
TB3
L-PR
TB2
L-PF
TB1
A24C
110°C
ATU FAULT
PA
P19C
100°C
P48C
OH
PA-RF
AFCUT
FDTA
CLK
LAT6
ST
ATR
PLLSC
PLLSC
+6.5V
PSEL
PRSEL
+24V DC
RESET
RX/EX
PA/PLL
AUT
ST SEL
TUNE
APC
REF
SID
SOD
KEY
ANT
L-PR
L-PF
L-PFX
IC1
IC2
IC3
IC4
IC5
IC7
IC8
IC9
IC10
IC11
IC13
IC14
IC15
IC16
IC17
IC18
IC19
IC20
IC21
IC22
IC23
IC24
IC26
IC27
IC28
IC29
IC30
IC31
IC35
PC3
PC4
PC7
TR1
TR2
TR3
TR4
TR5
TR6
TR8
TR9
TR10
TR11
D10
D12
D14
D15
D16
D17
D21
D22
D23
D24
D25
D26
D27
D28
D30
D31
D32
D33
L4
L5
L6
L7
L8
L9
L10
L11
L12
RV1
RV2
RV3
TP1
H/J
JP1
JP2
Y A
Y B
Q D
D Q
VCC
VDD
VSS
AVCC
AVSS
VAref
ALE
WR
RD
CE
OE
RESET
T/R Control
Version 2 A



Power supply A3
PCB lay-out

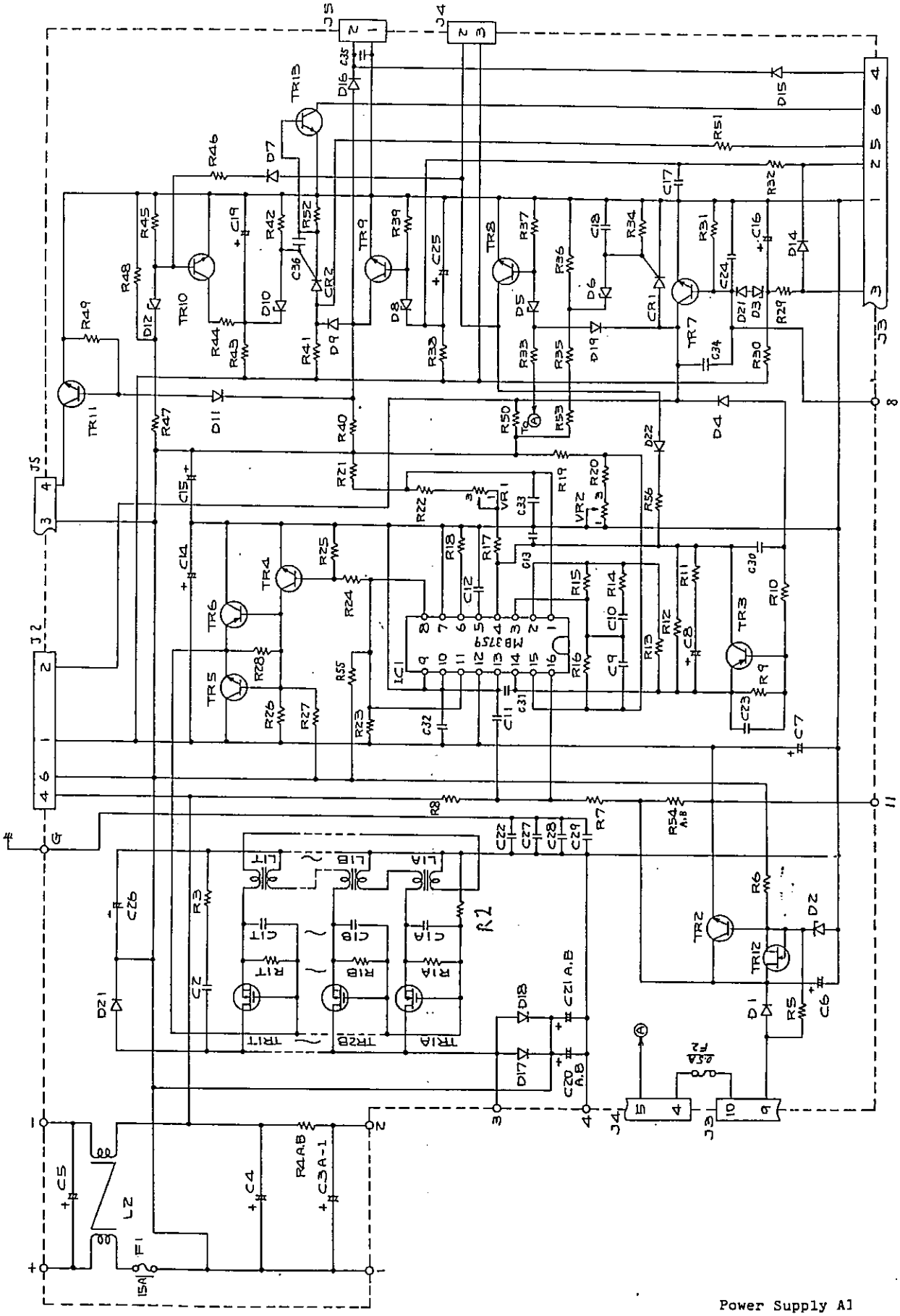


Power Supply A2
DC/DC Convertor
Version 2

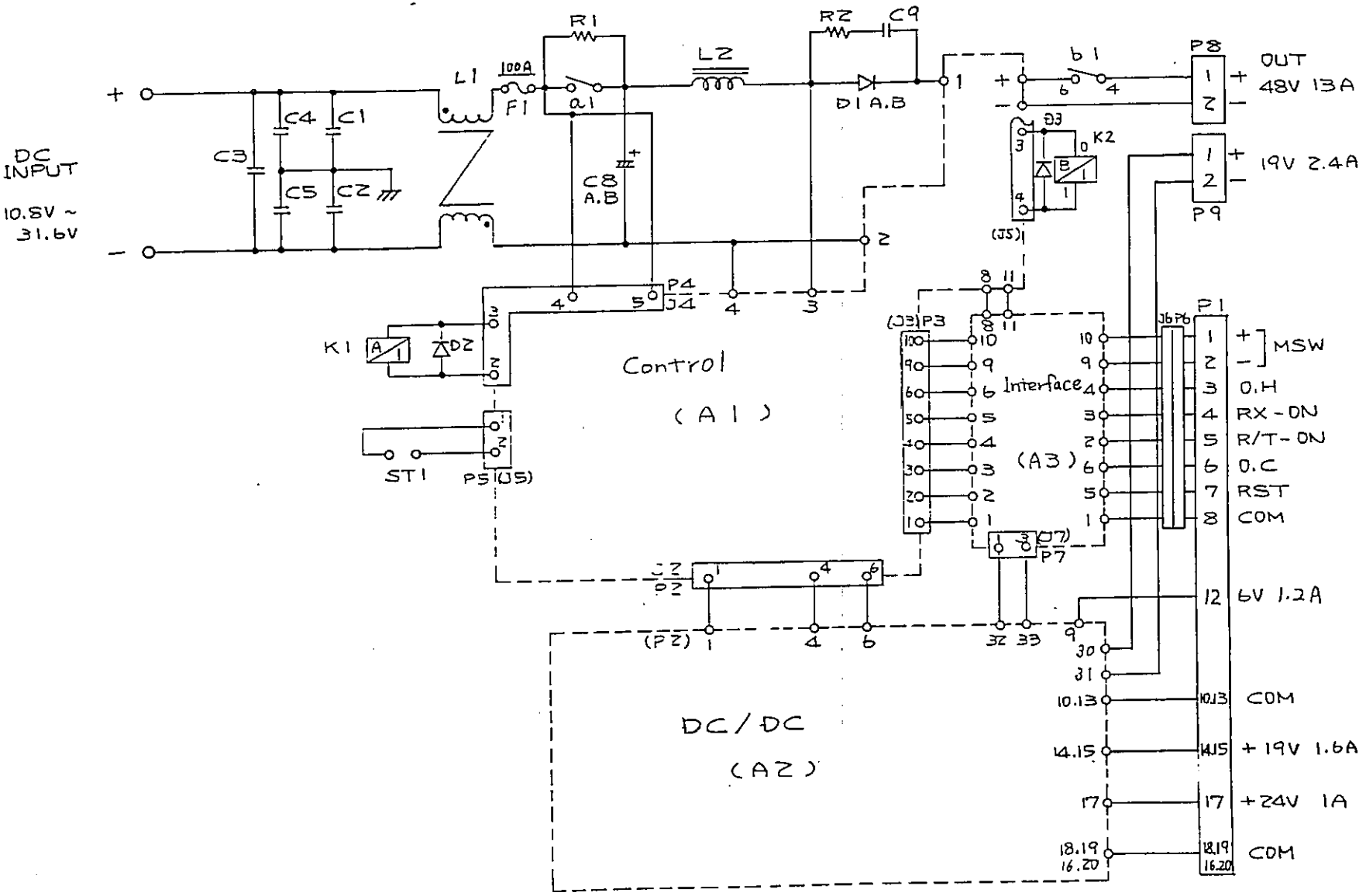


Power supply A2

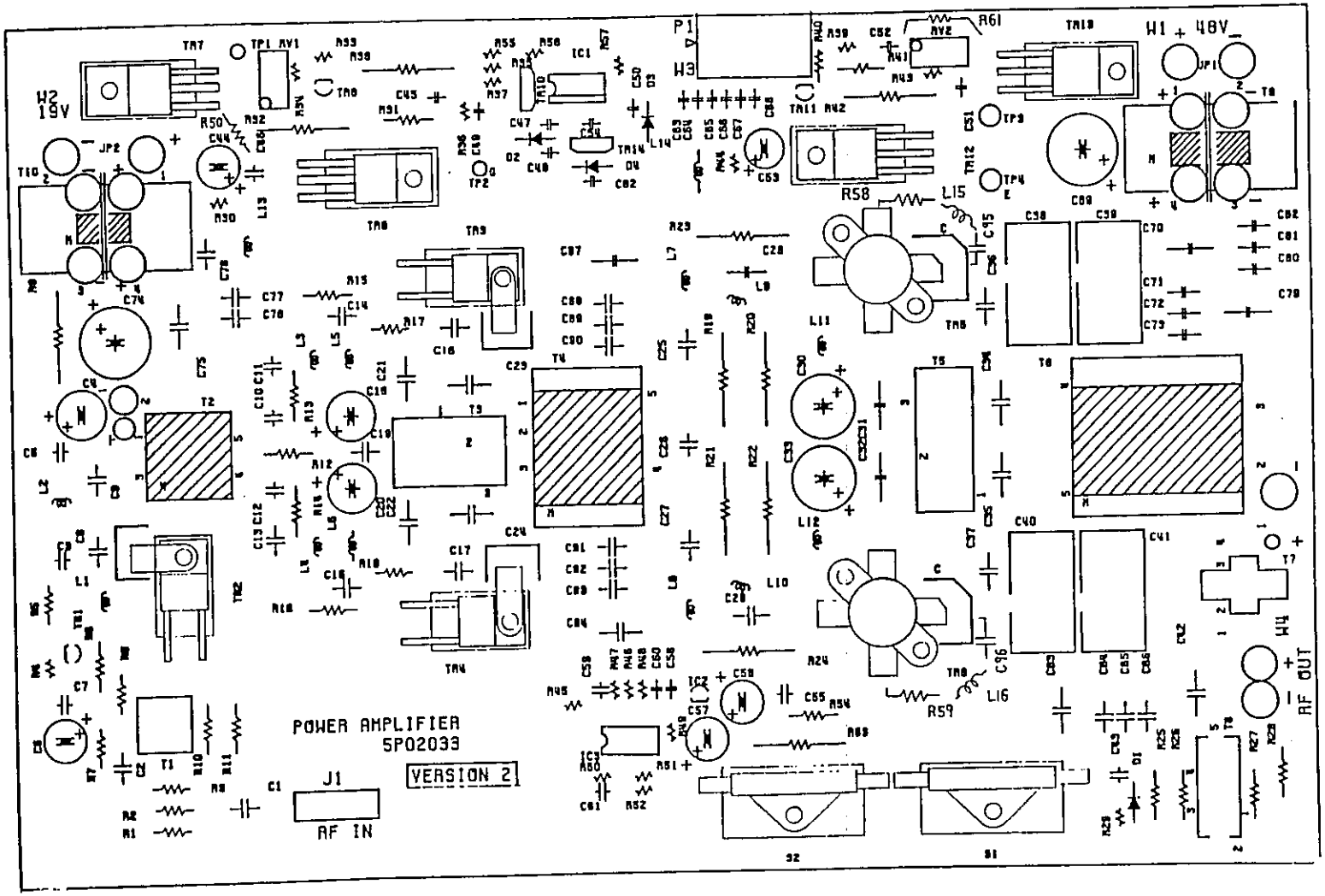
PCB lay-out



Power Supply A1
Control Board
Version 2

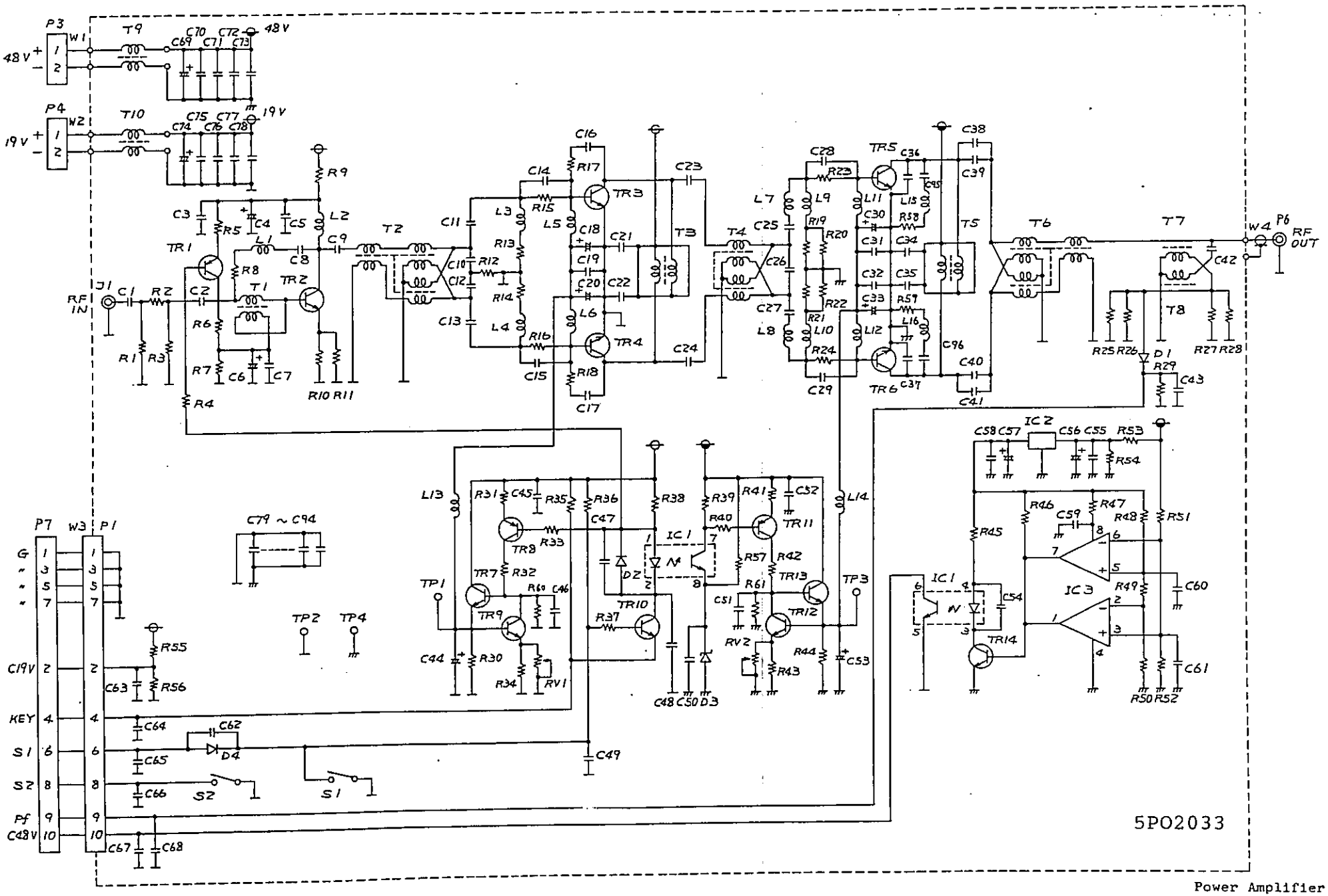


Power Supply
Main Circuit
Version 2

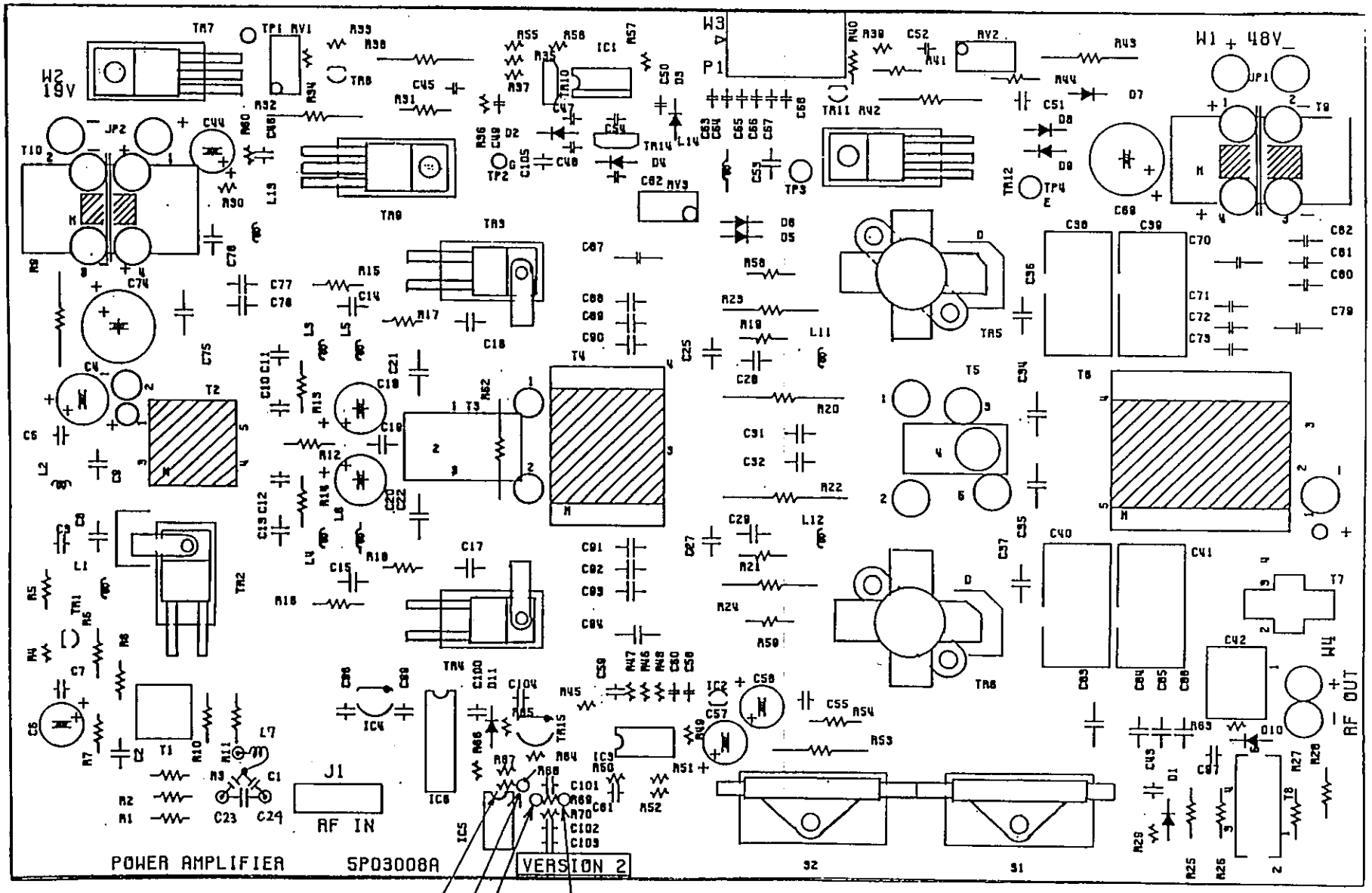


Power amplifier 5PO2033

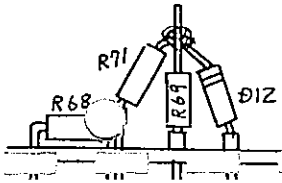
PCB lay-out



Power Amplifier
Version 2

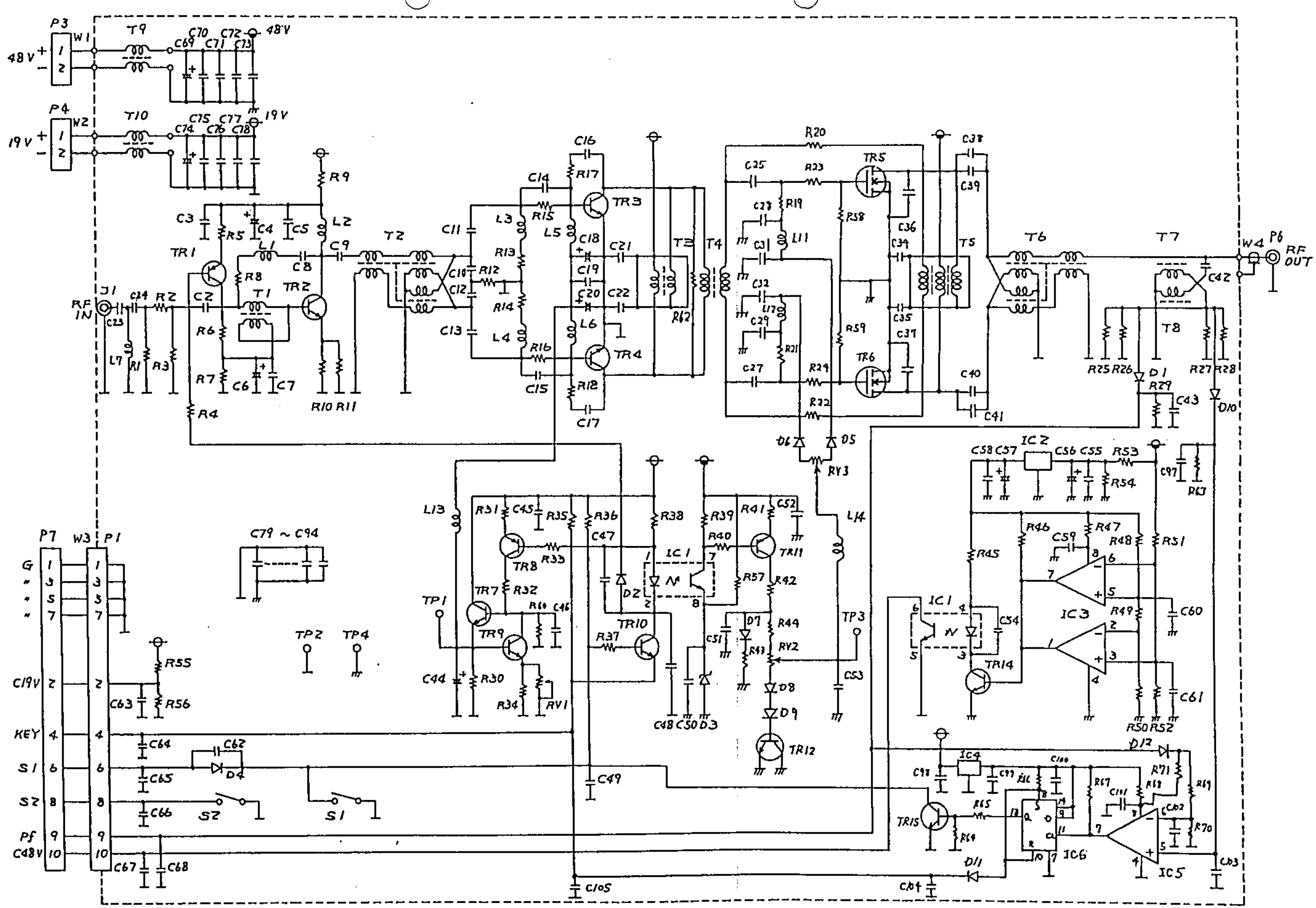


R68 R71 R69 D12

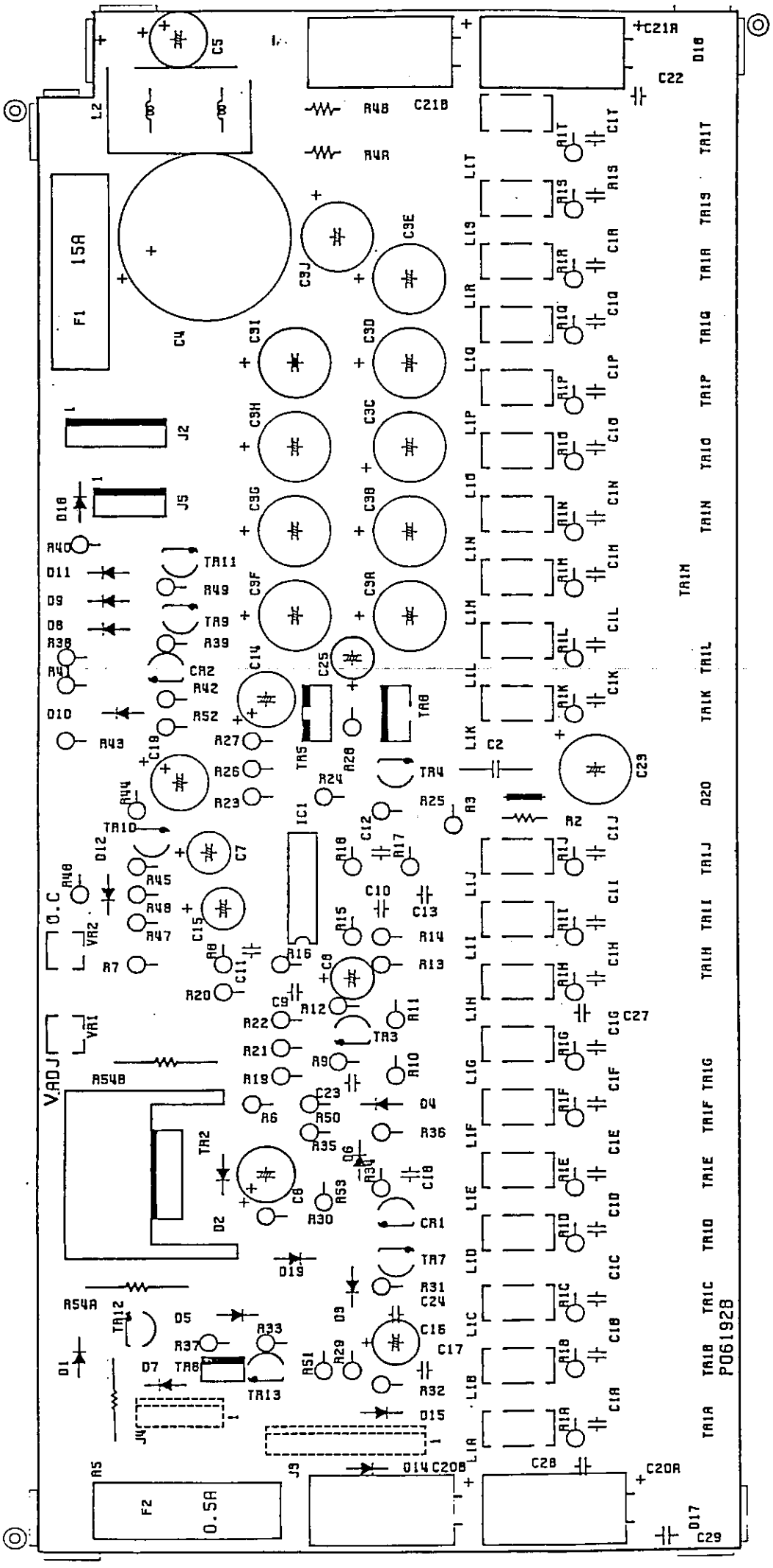


POWER AMPLIFIER SP03008A

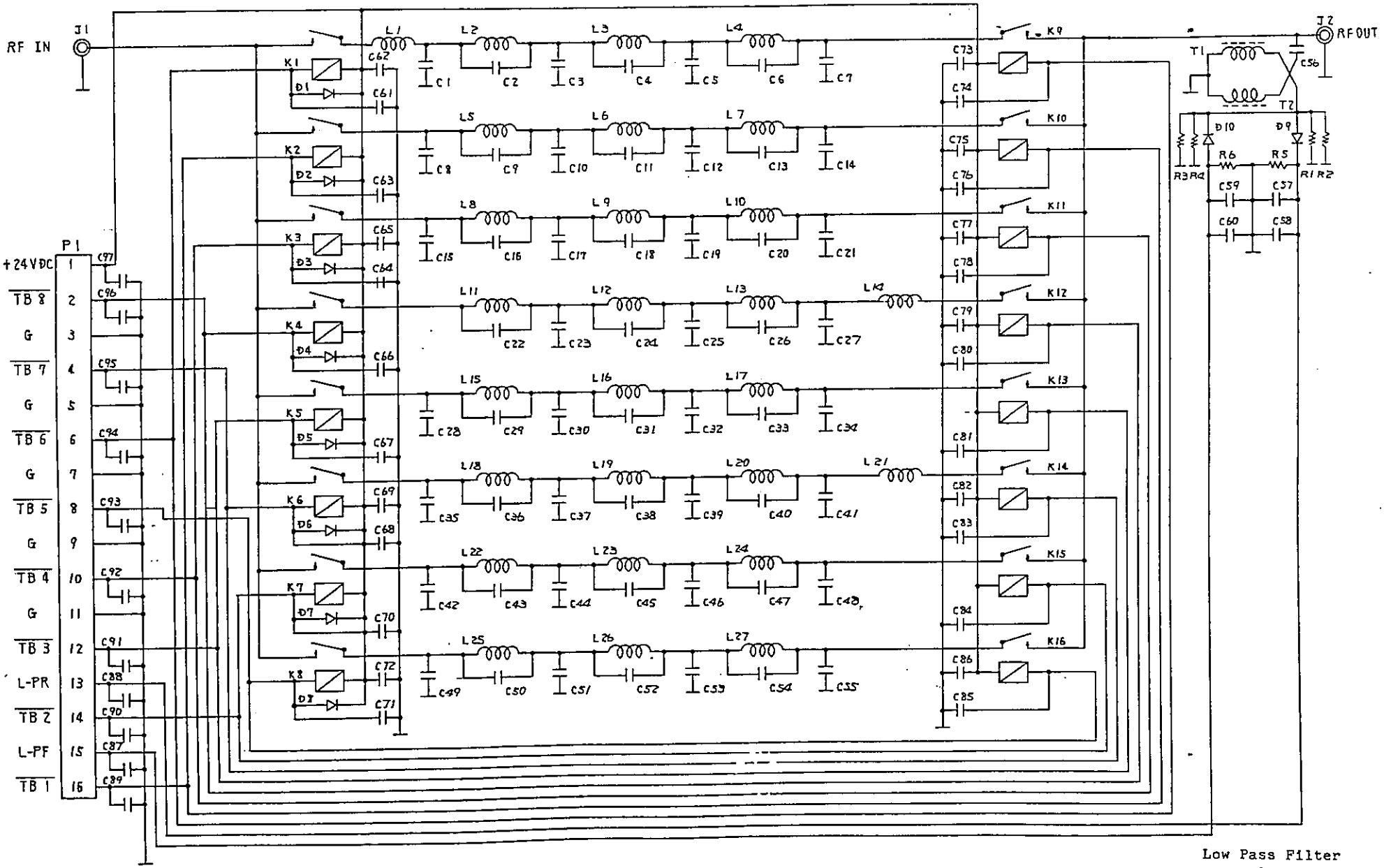
VERSION 2



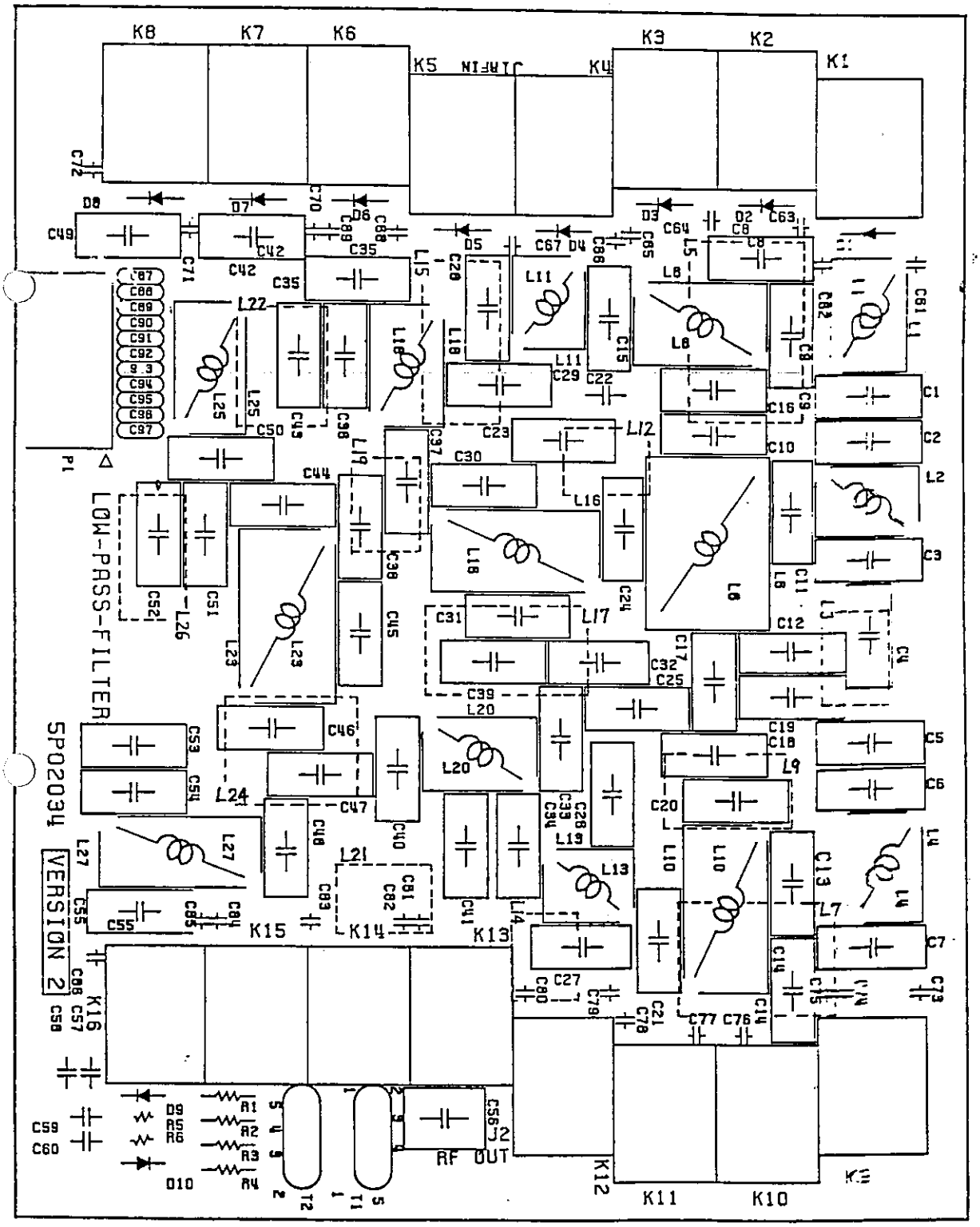
POWER AMPLIFIER 5P03008A



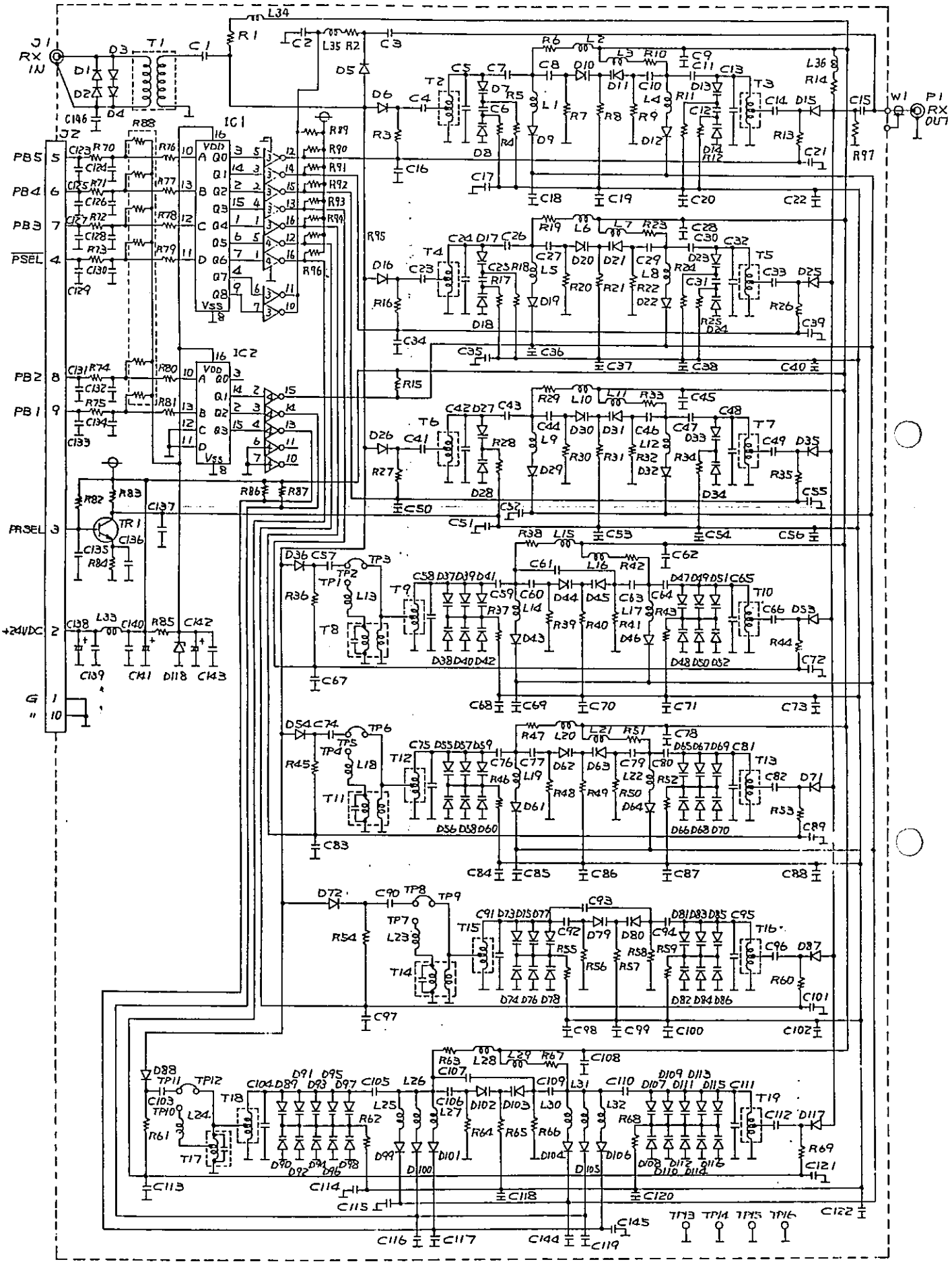
Power supply A1
PCB lay-out



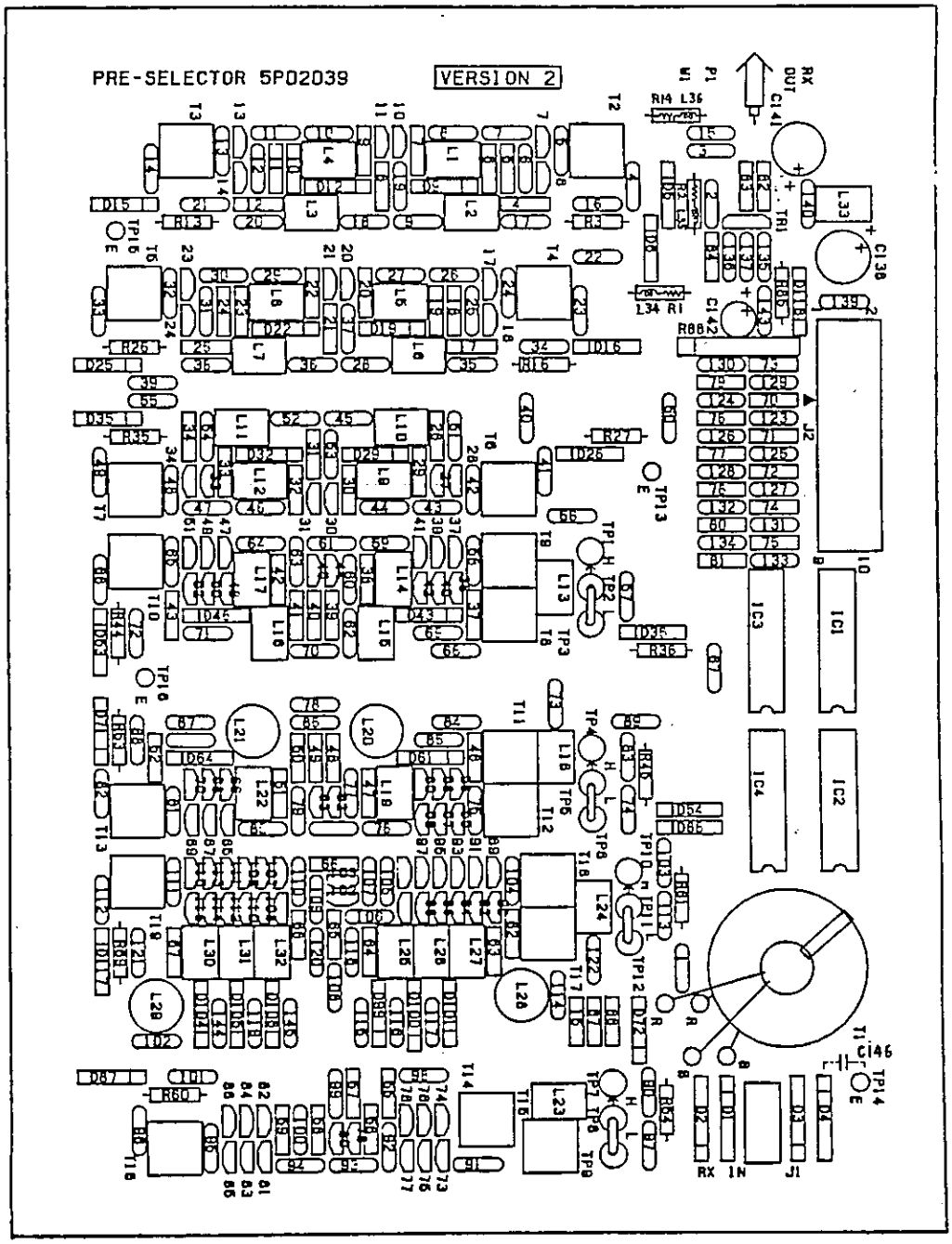
Low Pass Filter
Version 2



Low-pass filter
PCB lay-out



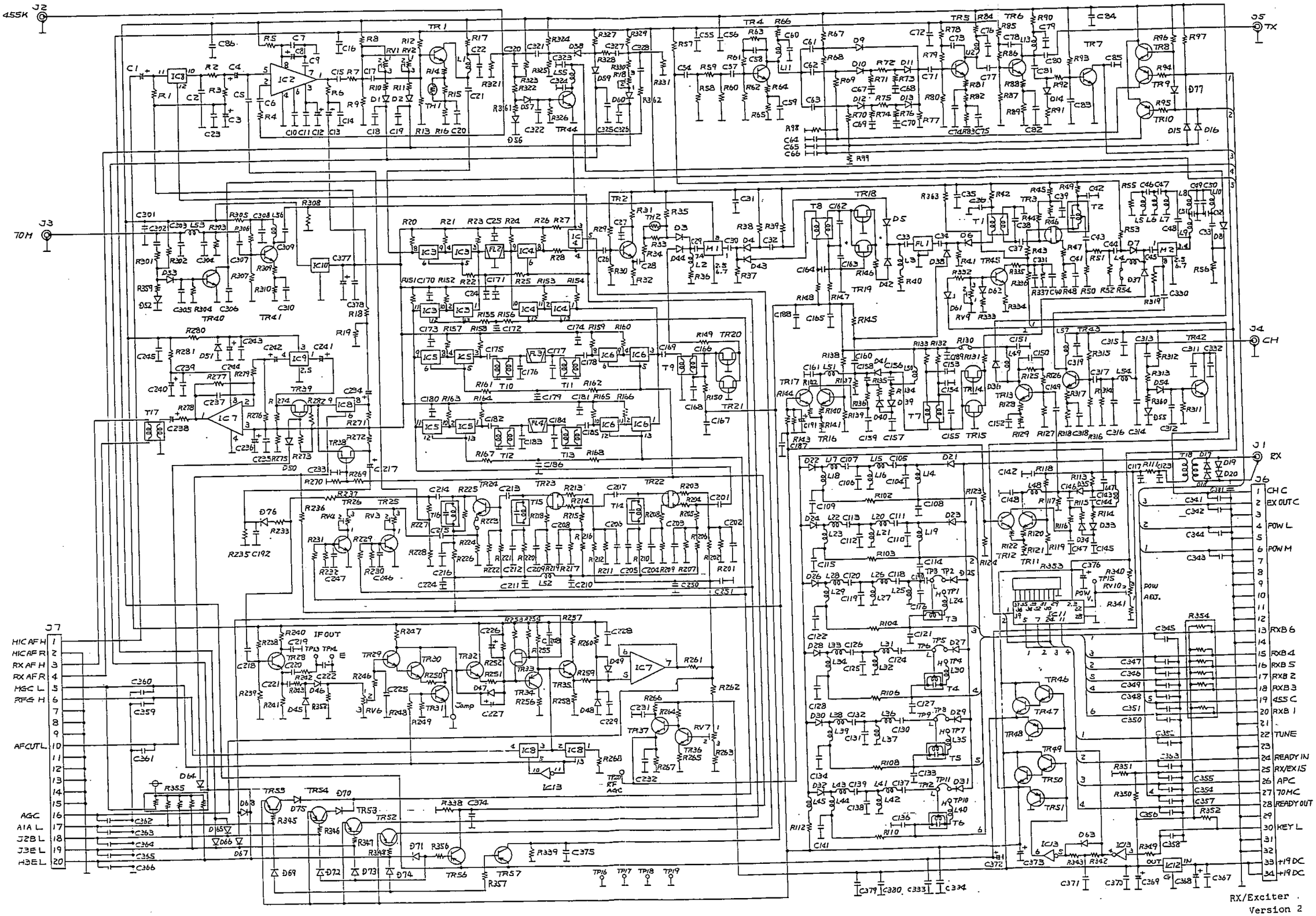
Pre-Selector
Version 2



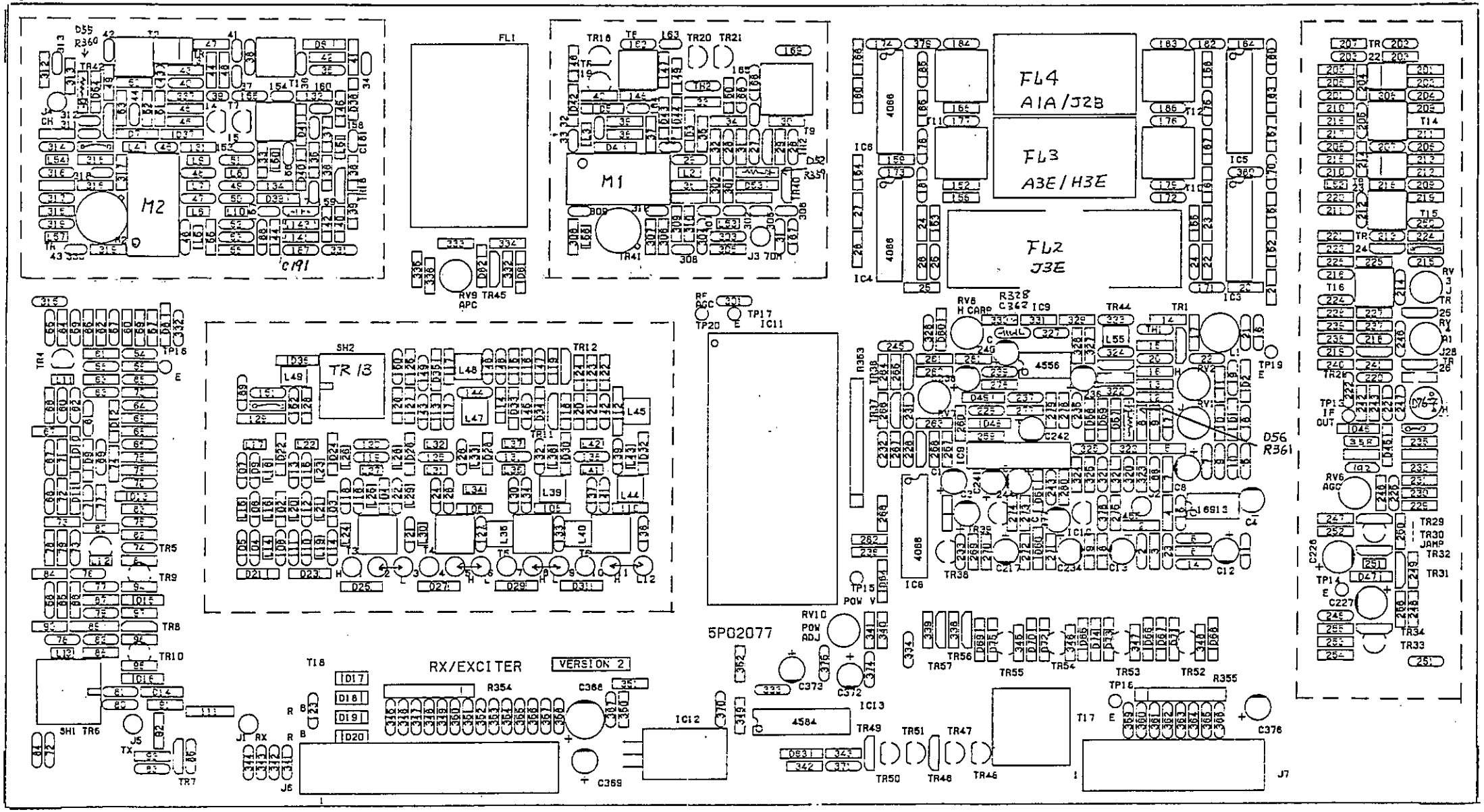
Pre-selector
PCB lay-out

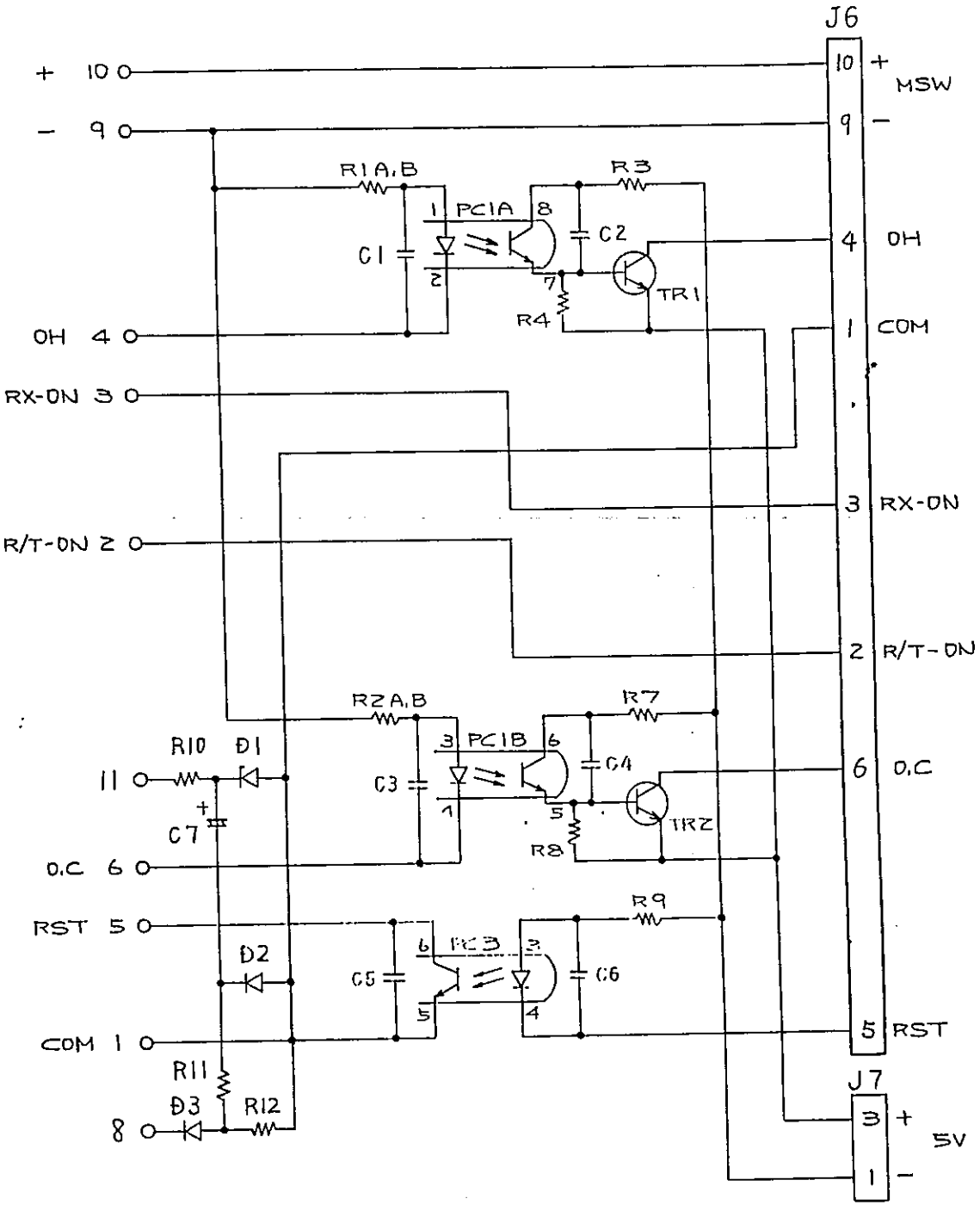
Frequency Synthesizer (PLL)
Version 2

Frequency Synthesizer
Layout

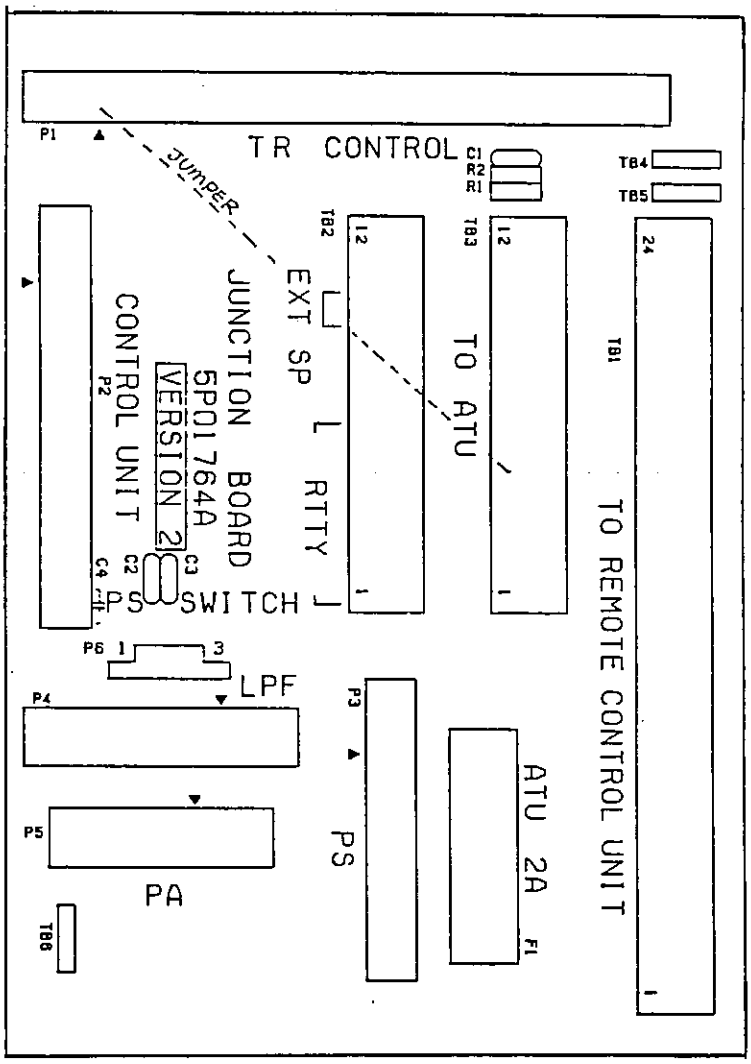

455K
J2
J3
70M
J5
TX
J4
CH
J1
RX
J6
CH C
EX OUT C
POW L
POW M
RXB 6
RXB 4
RXB 5
RXB 2
RXB 3
455 C
RXB 1
TUNE
READY IN
RX/EX IS
APC
70MC
READY OUT
KEY L
+19 DC
+19 DC
J7
HIC AF H
HIC AF R
RX AF H
RX AF R
MGC L
RFG H
AFCUT L
AGC
AIA L
J2B L
J3E L
H3E L
IF OUT
RF AGC
POW ADJ.
RX/Exciter
Version 2

RX/Exciter
PCB lay-out:

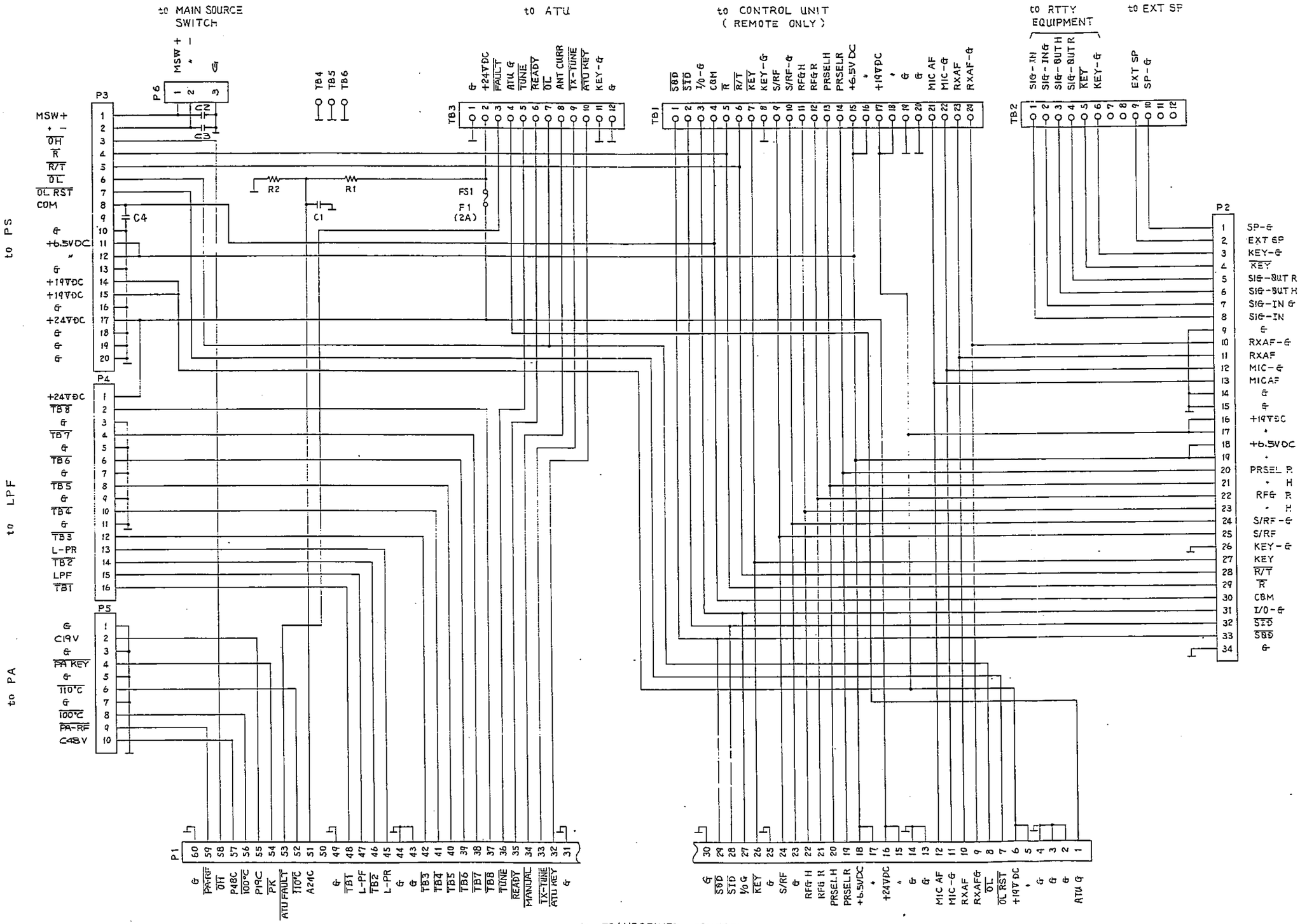




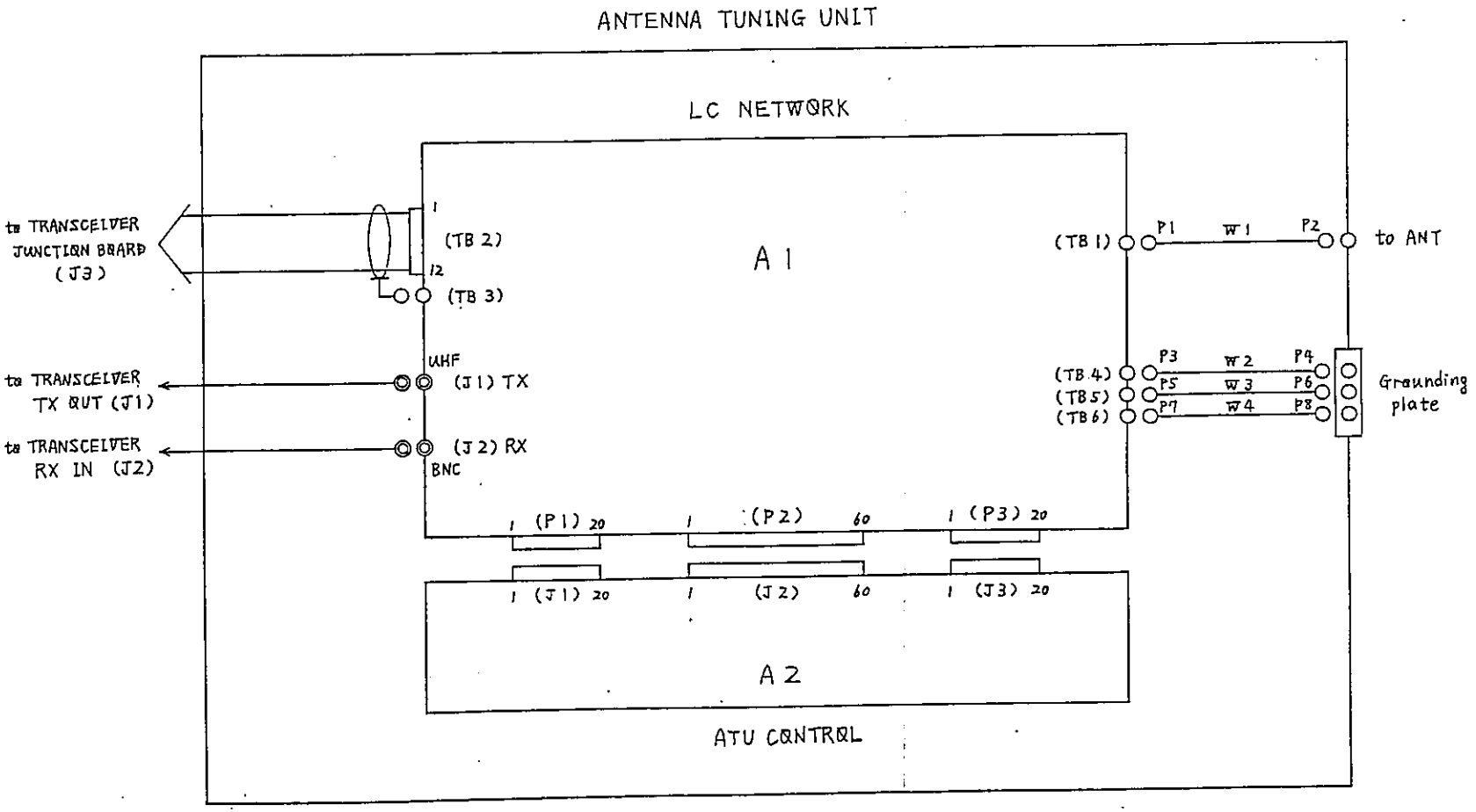
Power Supply A3
Line Interface
Version 2



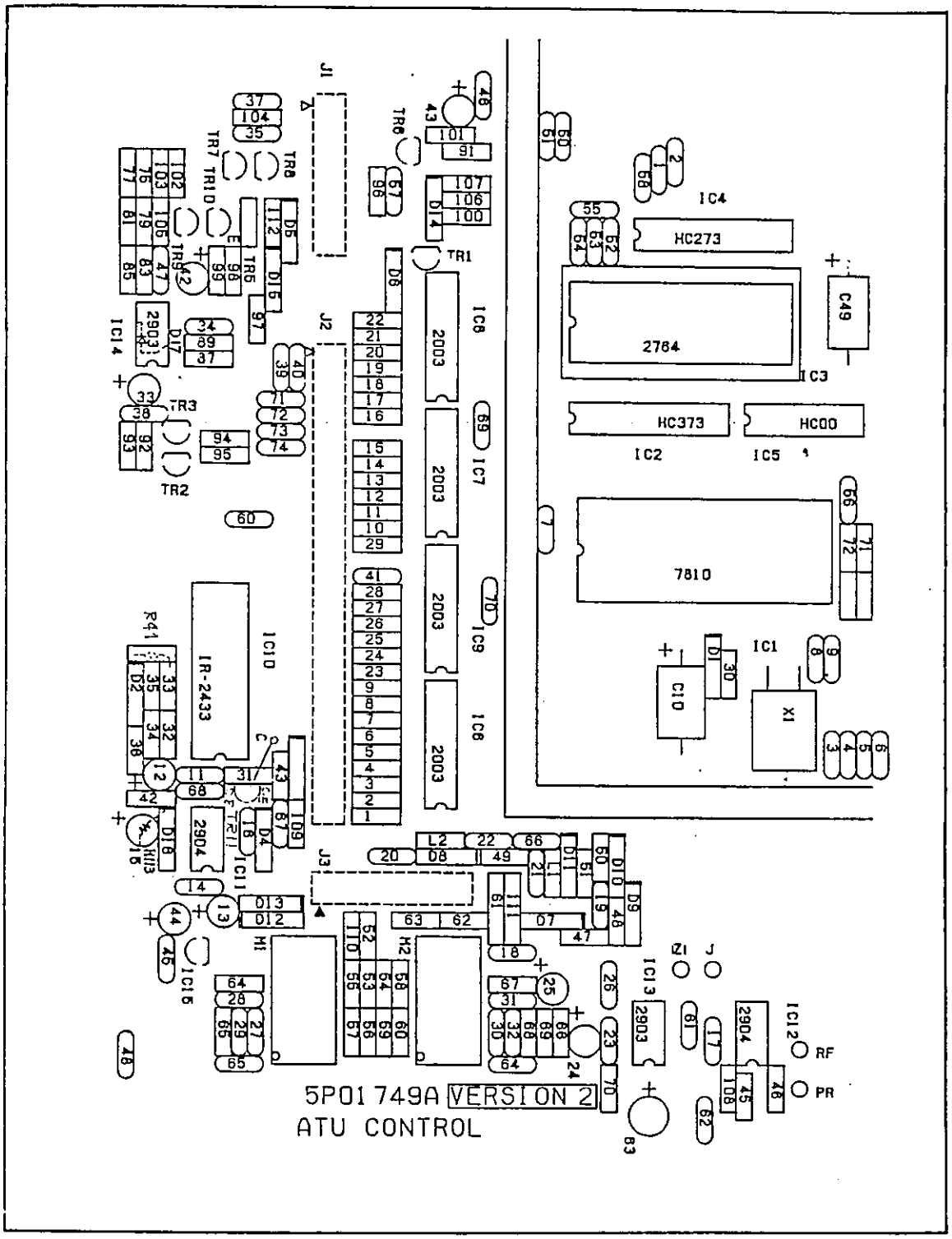
Junction board
PCB lay-out



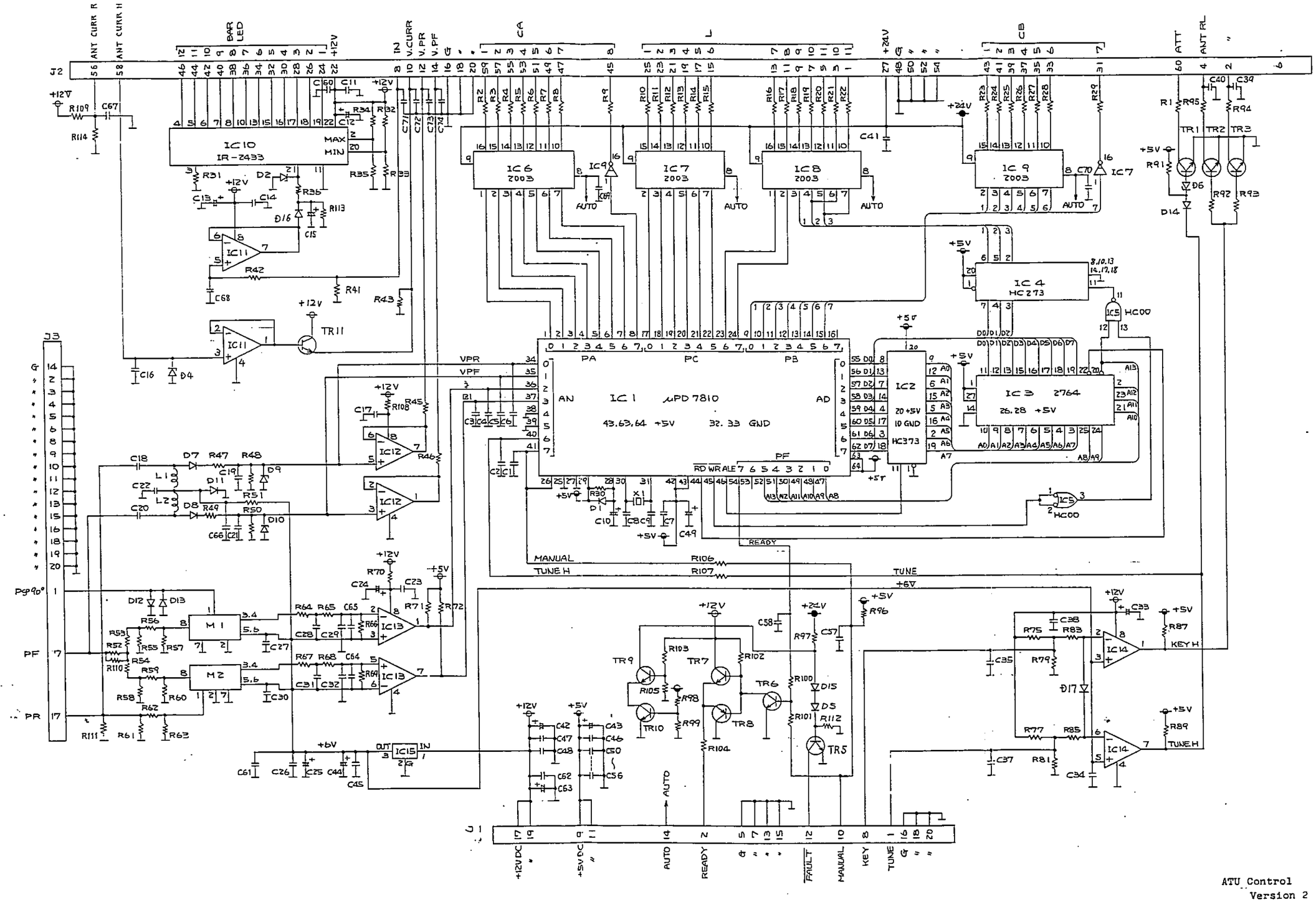
Junction
Version .2



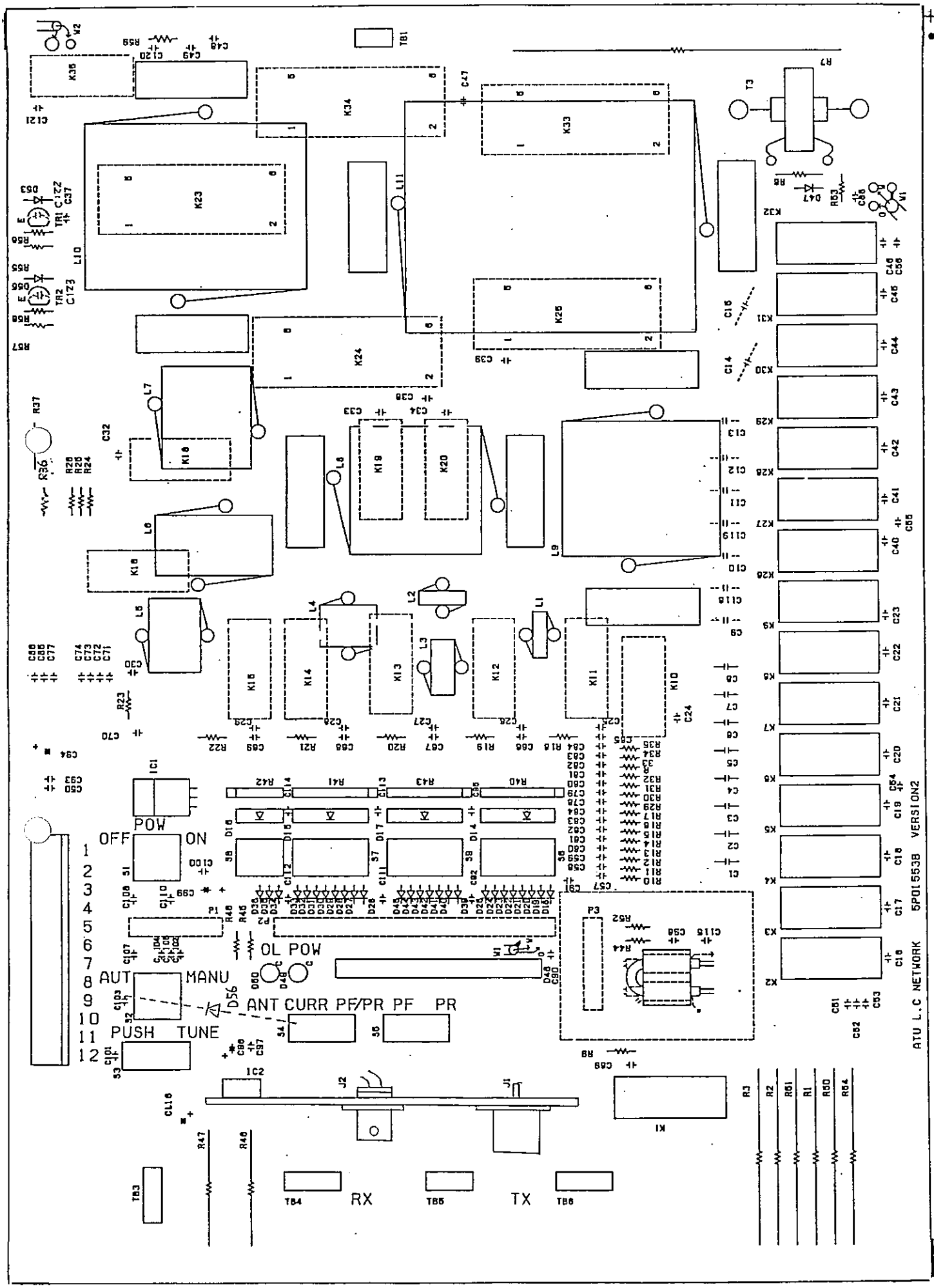
ATU Diagram
Version 2



ATU control
PCB lay-out

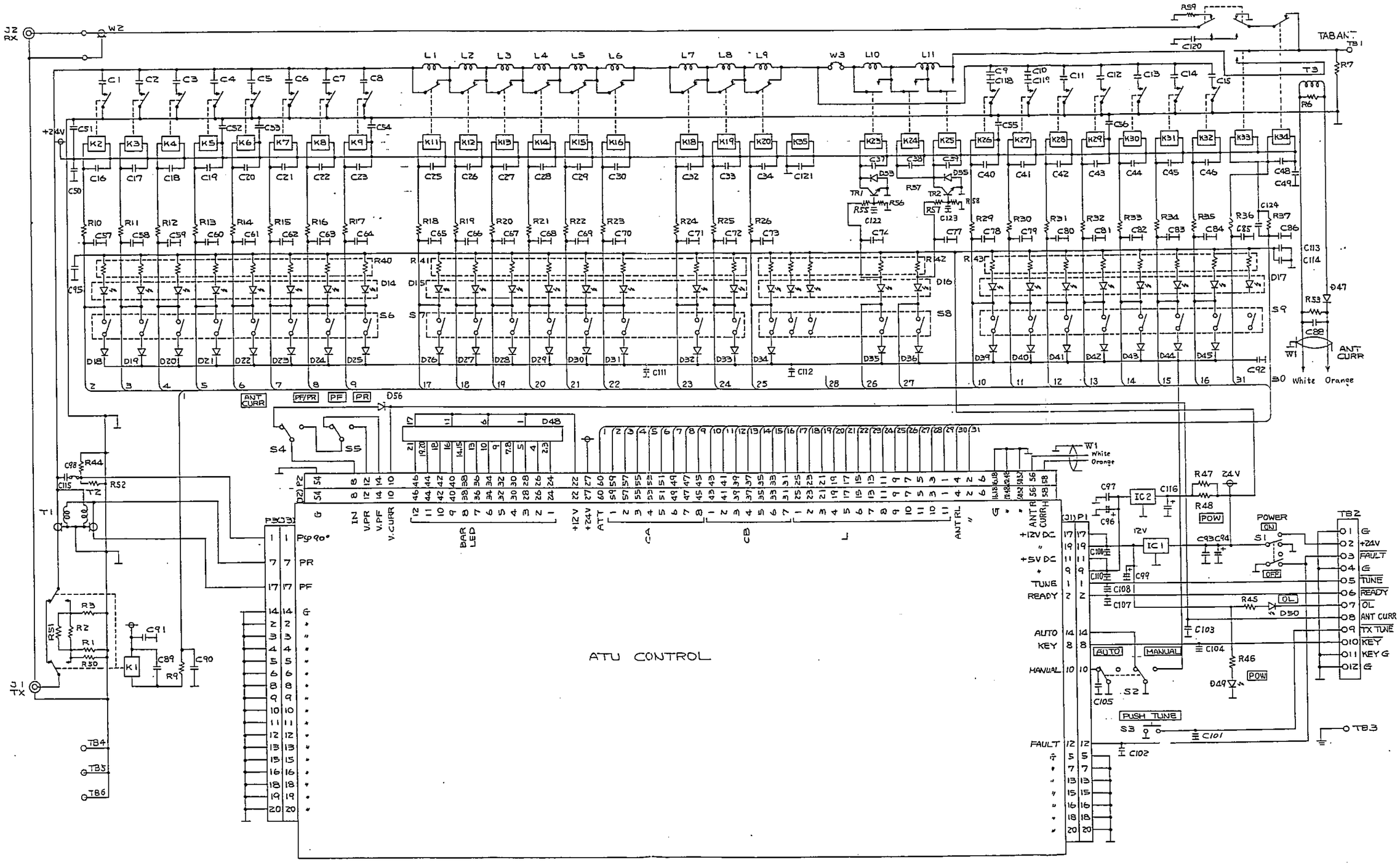


ATU Control
Version 2



ATU L.C network

PCB lay-out



LC Network
Version 2

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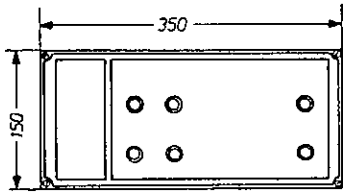
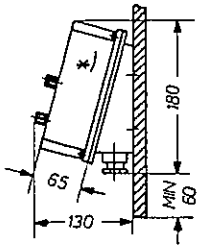
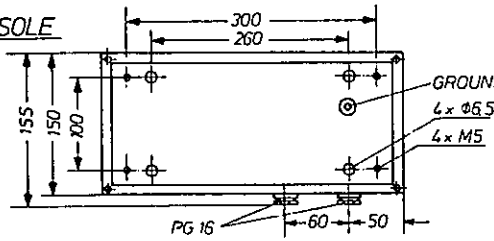
CONTROL UNIT WITH CONSOLE

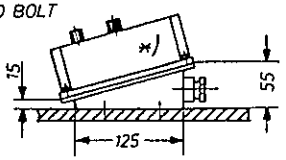
C.U.





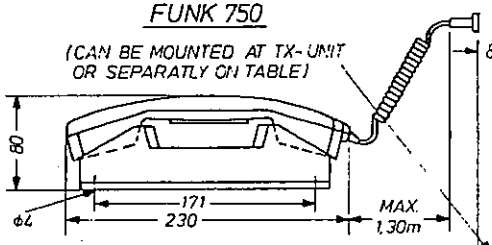
CONSOLE

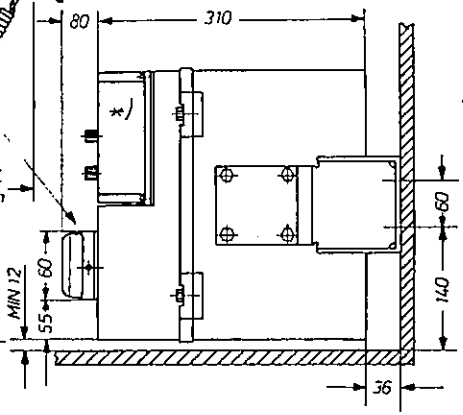




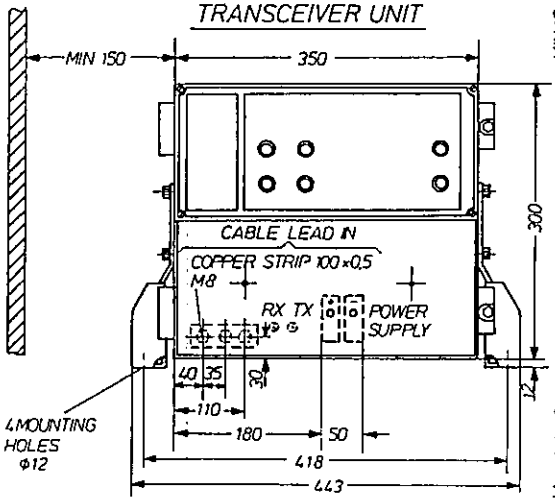
HANDSET WITH CRADLE FUNK 750

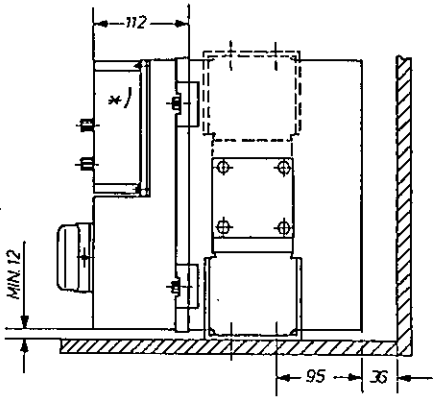
(CAN BE MOUNTED AT TX-UNIT OR SEPARATLY ON TABLE)





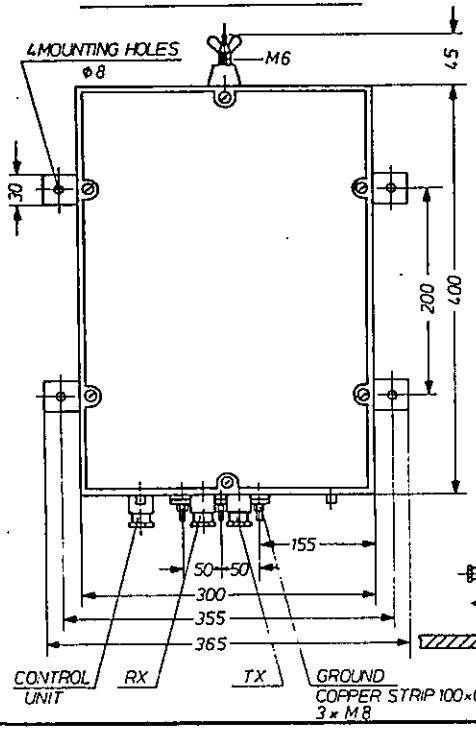
TRANSCEIVER UNIT

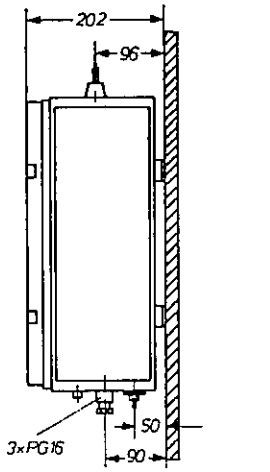


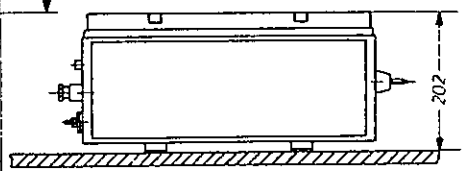


*) CONTROL UNIT CAN BE MOUNTED IN TRANSCEIVER UNIT OR SEPARATLY WITH CONSOLE

ANTENNA TUNING UNIT







Magnet. Schutzabstände MAGN. SAFETY DISTANCE	deutsch GERMANY		ausländisch FOREIGN
	normal NORMAL	vermindert REDUCED	
Regelkomp. STANDARD			
Steuerkomp. STEERING			
Regelkomp. STANDARD			
Steuerkomp STEERING			

UNIT	APPR WEIGHT
CONTROL UNIT	3 kg
ANTENNA TUNING UNIT	7 kg
TRANSCEIVER UNIT WITHOUT CU	23 kg

ALL DIMENSIONS IN mm

	Datum	Name
Gezeichnet	2.4.86	Drobne
Geprüft		
Bearbeitet		
Norm		

DEBEG

MHF/HF RADIOTELEPHONE 3120

OUTLINE DIMENSIONS CONTROL UNIT, TRANSCEIVER UNIT AND ANTENNA TUNING UNIT

Maßstab —

Zeichnungs-Nr 5447-3E

Blatt —

Ausgabe | Änder-Nr | Datum | Name | Ursprung | Ersatz für | Ersetzt durch | — Blätter

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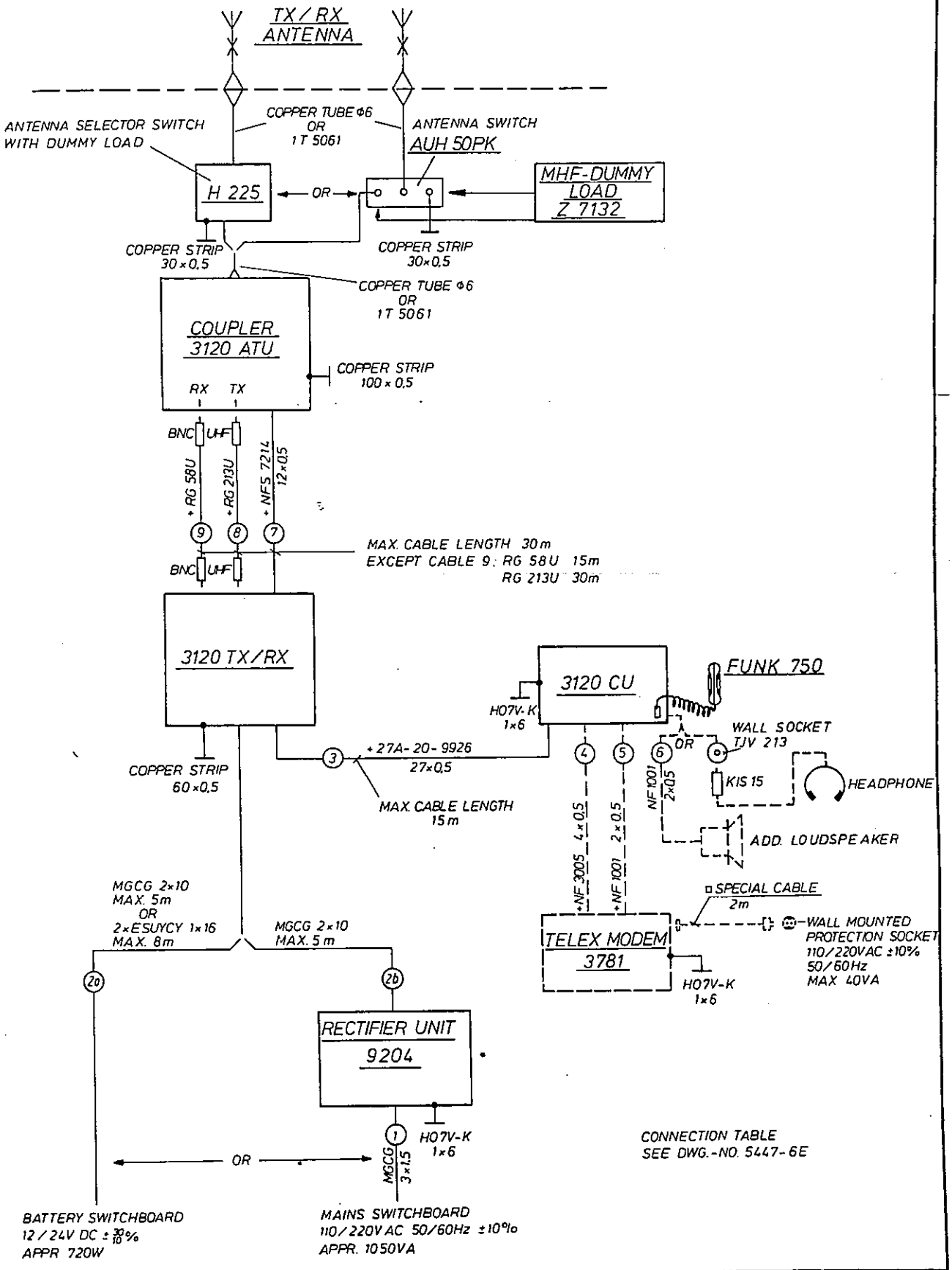


TYPE, SIZE AND INSTALLATION OF CABLES IN ACCORDANCE WITH THE REGULATIONS OF THE COMPETENT CLASSIFICATION SOCIETIES ONLY.
ALL CABLES - EXCEPT □ - TO BE SUPPLIED BY THE SHIPYARD.
□ CABLE SUPPLIED WITH DEBEG EQUIPMENT.
ALL CABLES TO BE INSTALLED BY THE SHIPYARD.
× IN METALLIC CABLE CONDUIT.
+ IN METALLIC CABLE CONDUIT OR ON SEPARATE TRAY.

Ausgabe	Änder.-Nr.	Datum	Name
5	11598	4.11.87	Dr/La
4	11595	3.7.87	Dr/La
3	11588	12.3.87	Dr/La
2	13458	5.9.86	Ui

	Datum	Name
Gezeichnet	25.6.86	Dröhne
Geprüft		Hta
Bearbeitet		
Norm		
Ursprung		

DEBEG

MHF/HF RADIOTELEPHONE 3120

CABLE DIAGRAM
12 / 24V DC OR 110/220VAC

Maßstab –

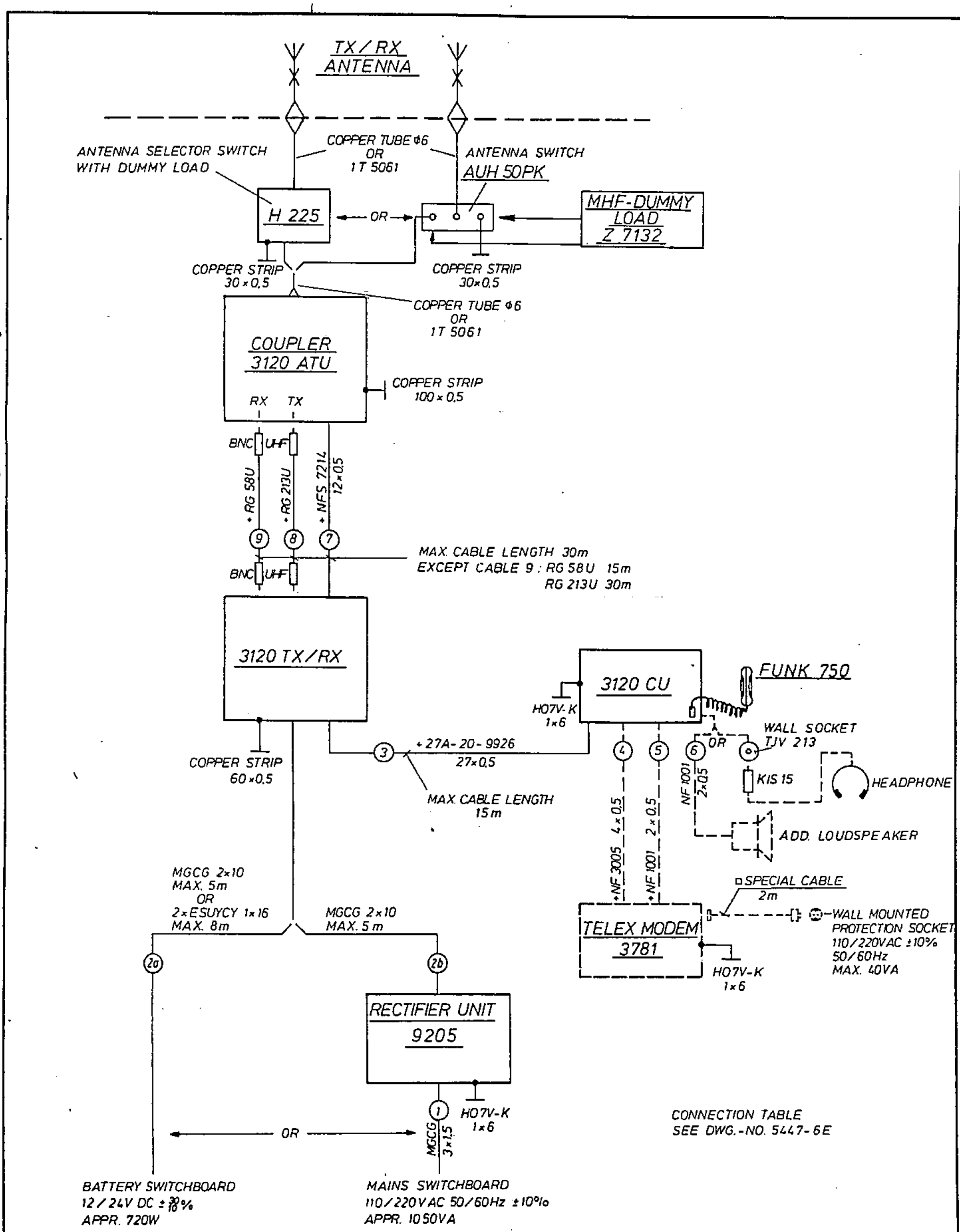
Zchngs.-Nr. 5447-5E

Blatt –

Ersatz für: 5447-1E

Ersatzt durch:

– Blätter



CONNECTION TABLE
SEE DWG.-NO. 5447-6E

TYPE, SIZE AND INSTALLATION OF CABLES IN ACCORDANCE WITH THE REGULATIONS OF THE COMPETENT CLASSIFICATION SOCIETIES ONLY.
ALL CABLES - EXCEPT □ - TO BE SUPPLIED BY THE SHIPYARD.
□ CABLE SUPPLIED WITH DEBEG EQUIPMENT.
ALL CABLES TO BE INSTALLED BY THE SHIPYARD.
× IN METALLIC CABLE CONDUIT.
+ IN METALLIC CABLE CONDUIT OR ON SEPARATE TRAY.

					Datum	Name
				Gezeichnet	17.3.87	Dröhne
				Geprüft		Kaege
				Bearbeitet		
				Norm		
3	11598	4.11.87	Dr/La	DEBEG		
2	11595	3.7.87	Dr/La			
Ausgabe	Änder.-Nr.	Datum	Name	Ursprung		

MHF/HF RADIOTELEPHONE 3120

CABLE DIAGRAM

12/24V DC OR 110/220V AC

Maßstab –

Zchngs.-Nr. 5447 - 9E

Blatt –

Ersatz für | Ersetzt durch

– Blätter

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zugestanden. Zuwiderhandlungen ... strafbar und verpflichten zu Schadenersatz (LUrhG, UWG, BGB). Alle Rechte für den Fall der Patenterteilung oder GM-Eintragung vorbehalten.

CABLE TYPE: MGCG 3x1,5	CABLE NO.: 1	REMARKS: Cable Diagram see DWG. No. 5447-5E

FROM	TO
UNIT: MAINS Switch Board	UNIT: 9204 / 9205
PLUG CONSTRUCTION TYPE:	PLUG CONSTRUCTION TYPE:
PLUG TYPE:	PLUG TYPE:
PLUG POS. NO.:	PLUG POS. NO.:
TERMINAL POS. NO.:	TERMINAL POS. NO.:

CONTACT/TERMINAL NO.	CORE COLOUR	FUNCTION 9204	CONTACT/TERMINAL NO.
			+5V AC
	GR	0V AC	0V AC
			-5V AC
			210V AC
	BK	110/220V AC	220V AC
	RD	GROUND	GROUND
	SCREEN	GROUND	GROUND

CONTACT/TERMINAL NO.	CORE COLOUR	FUNCTION 9205	CONTACT/TERMINAL NO.
	GR	0V AC	2
	BK	110/220V AC	1
	RD	GROUND	GROUND
	SCREEN	GROUND	GROUND

Ausgabe	Ander-Nr	Datum	Name
4	11598	4.11.87	Dr/La
3	11588	17.3.87	Dr/La
2	13458	2.9.86	Hta

	Datum	Name
Gezeichnet	13 6 86	Ue
Geprüft		Hta
Bearbeitet		
Norm		

DEBEG

Ursprung

MHF/HF RADIOTELEPHONE 3120

CONNECTION TABLE
CABLE NO. 1

Maßstab: X

Zchngs-Nr. 5447-6E

Blatt 1

Ersatz 5447-4E für: 5447-10E

Ersetzt durch

10 Blätter

CABLE TYPE: MGCG 2x10 OR 2xESUYCY 1x16	CABLE NO.: 2a	REMARKS: Cable length MGCG max. 5m, Esuycy max. 8m. Cable Diagram see DWG No. 5447-5E

FROM	TO
UNIT: BATT. Switchboard	UNIT: 3120 Tx/Rx
PLUG CONSTRUCTION TYPE:	PLUG CONSTRUCTION TYPE:
PLUG TYPE:	PLUG TYPE:
PLUG POS. NO.:	PLUG POS. NO.:
TERMINAL POS. NO.:	TERMINAL POS. NO.: P6

CONTACT/TERMINAL NO.	CORE COLOUR		FUNCTION	CONTACT/TERMINAL NO.
	MGCG 2x10	GR	+12V/24V DC	1
		Bk	-12V/24V DC	2
		SCREEN	GROUND	GROUND
		OR		
	2x Esuycy 1x16	TRANSPARENT	+12V/24V DC	1
		SCREEN	GROUND	GROUND
		TRANSPARENT	-12V/24V DC	2
		SCREEN	GROUND	GROUND

CABLE TYPE: MGCG 2x10	CABLE NO.: 2b	REMARKS: Cable length MGCG max. 5m, CABLE Diagram see DWG. No 5447-5E

FROM	TO
UNIT: 9204	UNIT: 3120 Tx/Rx
PLUG CONSTRUCTION TYPE:	PLUG CONSTRUCTION TYPE:
PLUG TYPE:	PLUG TYPE:
PLUG POS. NO.:	PLUG POS. NO.:
TERMINAL POS. NO.:	TERMINAL POS. NO.: P6

CONTACT/TERMINAL NO.	CORE COLOUR	FUNCTION	CONTACT/TERMINAL NO
+24V DC	GR	+24V DC	1
-24V DC	BK	-24V DC	2
GROUND	SCREEN	GROUND	GROUND

Ausgabe	Änder-Nr.	Datum	Name		Datum	Name	
				Gezeichnet	13.6.86	[illegible]	MHF/HF RADIOTELEPHONE 3120
				Geprüft		IHa	CONNECTION TABLE CABLE NO. 2a/2b
				Bearbeitet			Maßstab: —
				Norm			
2	13458	2.9.86	IHa	DEBEG			Zchngs.-Nr. 5447-6E; Blatt 2
				Ursprung			Ersatz für 5447-4E; Ersetzt durch; 9 Blätter

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CABLE TYPE: 27A-20-9926 27 x 0,5	CABLE NO.: 3	REMARKS: Cable Length max 15 m Cable Diagram see DWG. No. 5447-5E

FROM	TO
UNIT: 3120 Tx/Rx	UNIT: 3120 CU
PLUG CONSTRUCTION TYPE:	PLUG CONSTRUCTION TYPE:
PLUG TYPE:	PLUG TYPE:
PLUG POS. NO.:	PLUG POS. NO.:
TERMINAL POS. NO.: TB1	TERMINAL POS. NO.: TB1

CONTACT/TERMINAL NO.	CORE COLOUR	FUNCTION	CONTACT/TERMINAL NO.
1	BK	SOD	1
2	BN	SID	2
3	RD	I/O-G	3
4	OR	CM	4
5	YE	R	5
6	GN	RIT	6
7	BL	KEY	7
8	VI	KEY-G	8
9	GR	S/RF	9
10	WH	S/RF-G	10
11	WH/BK	RFG H	11
12	WH/BN	RFG R	12
13	WH/RD	PR SEL H	13
14	WH/OR	PR SEL R	14
15	WH/YE	+5V DC	15
16	WH/GN	+5V DC	16
17	WH/BL	+24V DC	17
18	WH/VI	+24V DC	18
19	WH/GR	G	19
20	BN/BK	G	20
21	BN/RD	MIC-AF	21
22	BN/OR	MIC-G	22
23	BN/YE	RX-AF	23
24	BN/GN	RX-G	24
	BN/BL	SPARE	
	BN/VI	SPARE	
	BN/GR	SPARE	
GROUND	SCREEN	GROUND	GROUND

	Datum	Name
Gezeichnet	13.6.86	[illegible]
Geprüft		Ha
Bearbeitet		
Norm		

Aus-gabe	Änder-Nr.	Datum	Name
2	13458	2.9.86	Ha

DEBEG

Ursprung

MHF/HF RADIOTELEPHONE 3120

CONNECTION TABLE
CABLE NO. 3

Maßstab: /

Zchngs - Nr. 5447 - 6E

Blatt 3

Ersatz für: 5447-4E

Ersetzt durch:

9 Blätter

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CABLE TYPE: NF 6001 7x0,5	CABLE NO.: 4	REMARKS: CONNECTION Diagram 3781 see DWG NO. 5168-2E Cable Diagram see DWG. No. 5447-5E

FROM	TO
UNIT: 3120 CU	UNIT: TELEX MODEM 3781
PLUG CONSTRUCTION TYPE:	PLUG CONSTRUCTION TYPE: LF-PLUG MALE
PLUG TYPE:	PLUG TYPE: DEM 9P
PLUG POS NO.:	PLUG POS. NO.: BU101
TERMINAL POS. NO.: TB2	TERMINAL POS. NO.:

CONTACT/TERMINAL NO.	CORE COLOUR	FUNCTION	CONTACT/TERMINAL NO.
1	BN	SIG-IN	2
2	BL	SI-G	6
5	GN	KEY-H	3
6	GR	KEY-R	5
GROUND	SCREEN	GROUND	7,8,9
	P	SPARE	
	WH	SPARE	
	YE	SPARE	

... auth... ...llen... ...are ...ible ...ble ...payn... of damages. All rights are reserved in the event of the grant of a patent or the registration of a Utility Model
...gesta... Zuwi... ...dung... ...d sti... und... ...sch... ten zu Schadenersatz (LitUrhG, UWG, BGB). Alle Rechte für den Fall der Patenterteilung oder GM-Eintragung vorbehalten

					Datum	Name
				Gezeichnet	13.6.86	[illegible]
				Geprüft		Hta
				Bearbeitet		
				Norm		
2	13458	2.9.86	Hta	DEBEG		
Aus-gabe	Änder-Nr.	Datum	Name	Ursprung		

MHF/HF RADIOTELEPHONE 3120

CONNECTION TABLE
CABLE NO. 4

Maßstab: /

Zchngs.-Nr. 5447-6E

Blatt 4

Ersatz für 5447-4E | Ersetzt durch | 9 Blätter

CABLE TYPE: NF 1001 2x0.5	CABLE NO.: 5	REMARKS: CONNECTION Diagram 3781 see DWG NO. 5168-2E. Cable Diagram see DWG. no 5447-5E

FROM	TO
UNIT: 3120 CU	UNIT: TELEX MODEM 3781
PLUG CONSTRUCTION TYPE:	PLUG CONSTRUCTION TYPE: LF-PLUG FEMALE
PLUG TYPE:	PLUG TYPE: DEM 9S
PLUG POS. NO.:	PLUG POS. NO.: ST 101
TERMINAL POS. NO.: TB 2	TERMINAL POS. NO.:

CONTACT/TERMINAL NO.	CORE COLOUR	FUNCTION	CONTACT/TERMINAL NO
3	WH	SIG-OUT	1
4	BN	SO-G	5
GROUND	SCREEN	⊥ GROUND	6, 7, 8, 9

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	Datum	Name
Gezeichnet	13. 6. 86	Hi
Geprüft		Hta
Bearbeitet		
Norm		

DEBEG

MHF/HF RADIOTELEPHONE 3120

CONNECTION TABLE
CABLE NO. 5

Maßstab: /

Zchngs - Nr. 5447-6E

Blatt 5

Ausgabe	Änder-Nr.	Datum	Name	Ursprung
2	13458	2.9.86	Hte	

Ersatz für: 5447-4E | Ersetzt durch | Blätter