

INDICATED VOLTAGE MEASURD IN P.B. MODE.

B (POWER SUPPLY) LINE
 DM SPEED SIGNAL LINE
 DM PHASE SIGNAL LINE
 CM SPEED SIGNAL LINE
 CM PHASE SIGNAL LINE

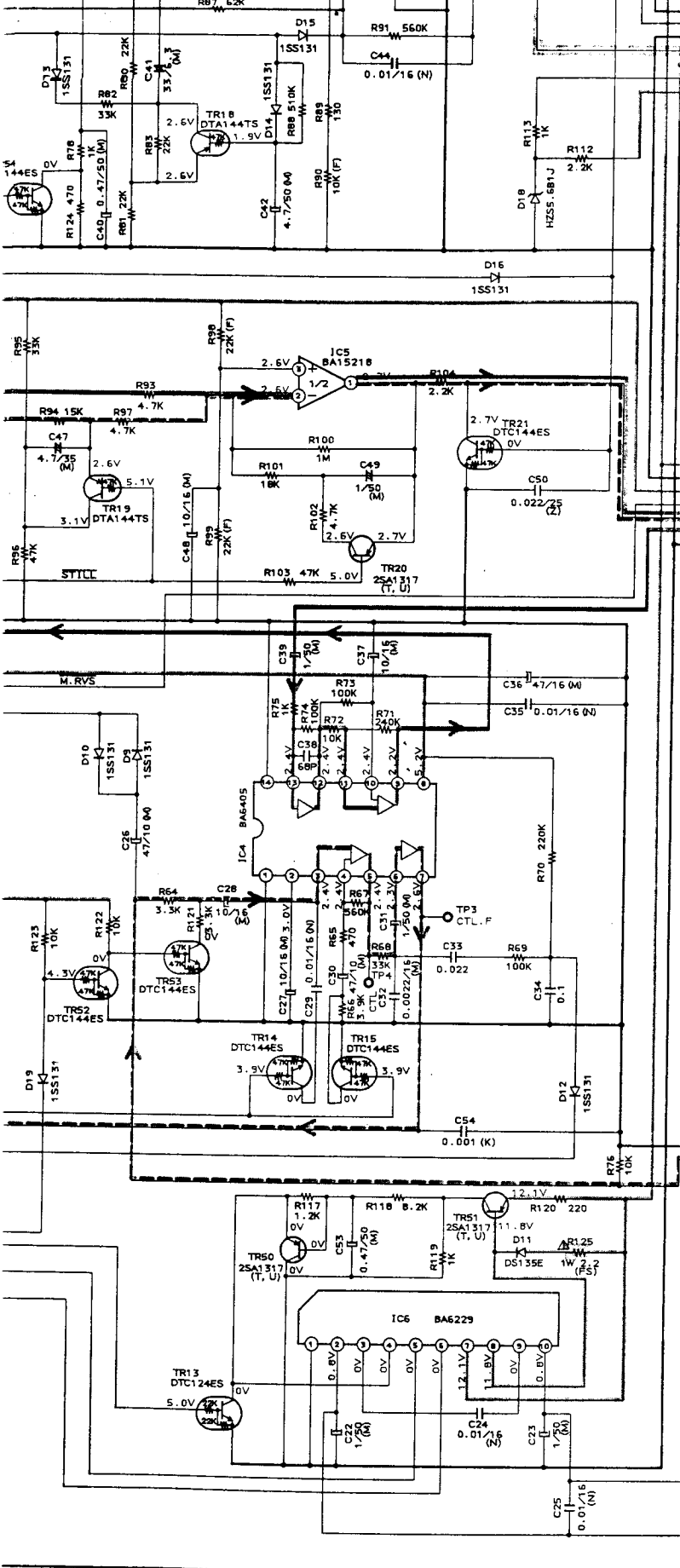
NOTE
 UNLESS OTHERWISE SPECIFIED
 ALL RESISTORS IN OHMS 1/6W(J)
 ALL CAPACITORS IN μ F 50WV(J)

WARNING: Δ AND \square INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

AVERTISSEMENT: Δ ET \square ILS INDICENT LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.

VS-A77E
 SERVO/S
 SCHEMAT

NO. 14-



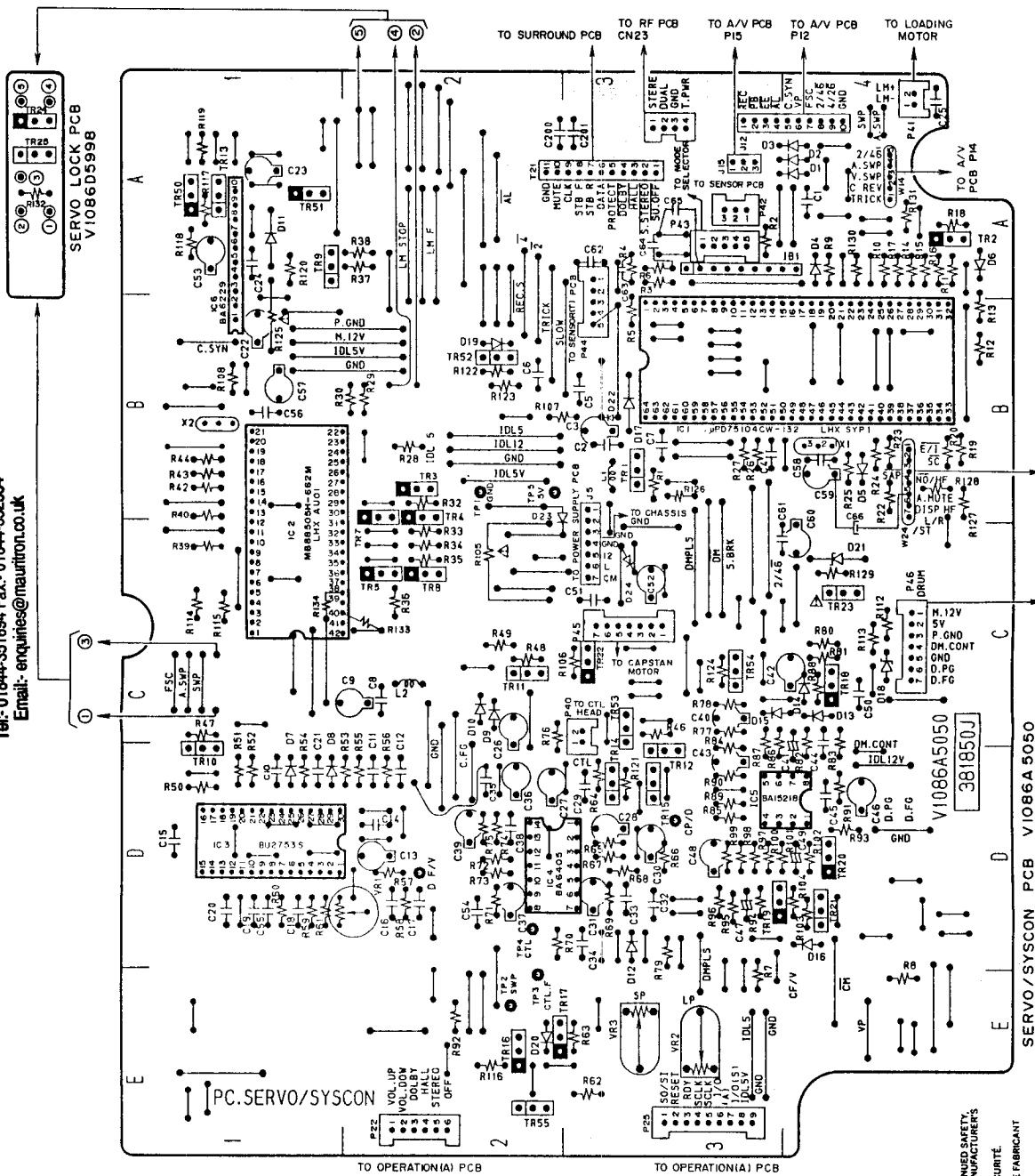
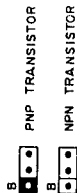
For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
8 Cherry Tree Rd, Chinnor
Oxon OX9 4QY
Tel: 01844-851694 Fax: 01844-352554
Email: enquiries@maurtron.co.uk

VS-A77EK
SERVO/SYSCON PCB
SCHEMATIC DIAGRAM
NO.14-5 V108624M

WARNING: Δ AND \square INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.
AVERTISSEMENT: Δ ET \square ILS INDIQUENT LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT

THERWISE SPECIFIED STORS IN OHMS 1/5W(J)
CITORS IN μ F 50W(J)

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PRINCIPAL PARTS LOCATION

ICs	TRANSISTORS	LOCATIONS
IC1	TR1	B3
IC2	TR2	B3,4
IC3	TR3	B1,C2
IC4	TR4	B2
IC5	TR5	B2,3
IC6	TR6	B2,4
	TR7	B2
	TR8	B2
	TR9	A1
	TR10	D1
	TR11	C2
	TR12	D3
	TR13	A1
	TR14	D3
	TR15	A1
	TR16	D3
	TR17	E2,3
	TR18	C4
	TR19	D3
	TR20	D4
	TR21	D4
	TR22	C3
	TR23	C4
	TR24	C4
	TR25	A1
	TR26	A1
	TR27	B2
	TR28	C3
	TR29	C3
	TR30	C3
	TR31	C3
	TR32	C3
	TR33	C3
	TR34	C3
	TR35	C3
	TR36	C3
	TR37	C3
	TR38	C3
	TR39	C3
	TR40	C3
	TR41	C3
	TR42	C3
	TR43	C3
	TR44	C3
	TR45	C3
	TR46	C3
	TR47	C3
	TR48	C3
	TR49	C3
	TR50	C3
	TR51	C3
	TR52	C3
	TR53	C3
	TR54	C3
	TR55	C3

CONNECTORS

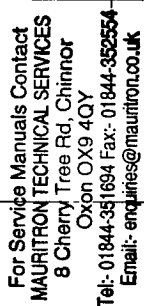
CON	LOCATIONS
P22	E2
P23	A3
P24	A3
P25	A3
P26	A3
P27	A3
P28	A3
P29	A3
P30	A3
P31	A3
P32	A3
P33	A3
P34	A3
P35	A3
P36	A3
P37	A3
P38	A3
P39	A3
P40	A3
P41	A3
P42	A3
P43	A3
P44	A3
P45	A3
P46	A3
P47	A3
P48	A3
P49	A3
P50	A3
P51	A3
P52	A3
P53	A3
P54	A3
P55	A3

WIRES

WIRE	LOCATIONS
J5	B,C3
J12	A3,4
J15	A3,4
J21	A2,3
W14	A4
W24	B4

COMPONENT	LOCATIONS
DTC124TS	B3
2SA1317	B3,4
2SC3330	B1,C2
DTA143ES	B2
DTA144ES	B2,3
DTA144TS	B2,4
DTC124ES	B2
DTC144ES	B2
DTC144TS	B2

WARNING: INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY.
 REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S
 EQUIVALENT. ALL INSTRUCTIONS MUST BE FOLLOWED.
 AVERTISSEMENT: ALL INSTRUCTIONS DOIVENT ÊTRE SUIVIES.
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VS-A77EK
OPERATION
(A), (B), (C) PCB
SCHEMATIC DIAGRAM
NO.14-5 V108625M

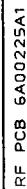
NOTE
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RESISTORS IN OHMS 1/5W (J)
ALL CAPACITORS IN μ F 50WV (J)

INDICATED VOLTAGE MEASURED IN P. B. MODE.

SUB PANEL OPERATE SW BLK

OPERATION (8) PCB V10868513A

OPERATION (C) PCB



B (POWER SUPPLY) LINE

VS-A77EK
RF PCB
SCHEMATIC DIAGRAM
NO.14-7 V108626M₂

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THE VALUE OF CHIP RESISTOR
 IS EXPRESSED AS FOLLOWING

$$A3 = 10 \times 10^3 = 1K\text{ohms}$$

$$333 = 33 \times 10^3 = 33K\text{ohms}$$

SYMBOL	BA LUE
A	1.0
C	1.2
E	1.5
G	1.8
J	2.2
K	2.4
L	2.7
M	3.6
N	3.3
P	3.6
S	4.7
W	6.8
Y	8.2

CHIP TRANSISTOR



LF : 2SC3052
 MF : 2SA1235F
 N1 : RTIN141C
 N3 : RTIN441C
 JC : 2SC2735
 I6 : RTIP441C



FET



PNP TRANSISTOR



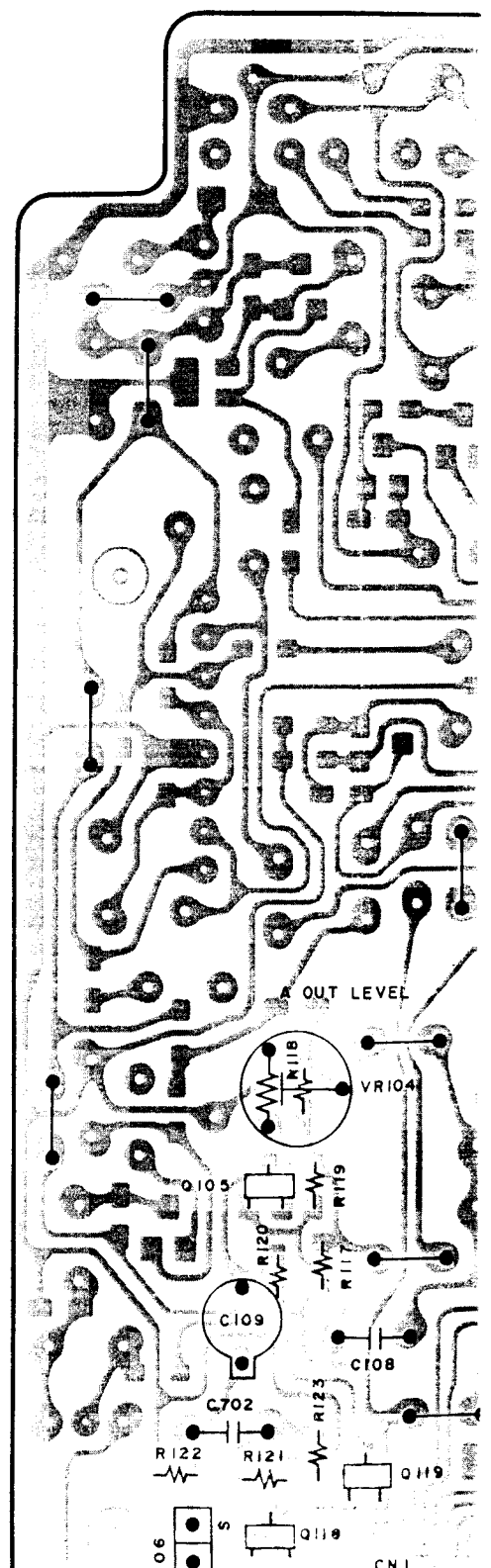
NPN TRANSISTOR



2SA1286



2SJ103



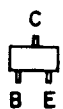
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THE VALUE OF CHIP RESISTOR
IS EXPRESSED AS FOLLOWING

$$A3 = 10 \times 10^3 = 1 \text{ K ohms}$$
$$333 = 33 \times 10^3 = 33 \text{ K ohms}$$

SYMBOL	BAUE
A	1.0
C	1.2
E	1.5
G	1.8
J	2.2
K	2.4
L	2.7
M	3.6
N	3.3
P	3.6
S	4.7
W	6.8
Y	8.2

CHIP TRANSISTOR



LF : 2SC3052
MF : 2SA1235F
NI : RTIN141C
N3 : RTIN441C
JC : 2SC2735
I6 : RTIP441C



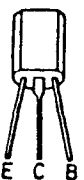
FET



PNP TRANSISTOR



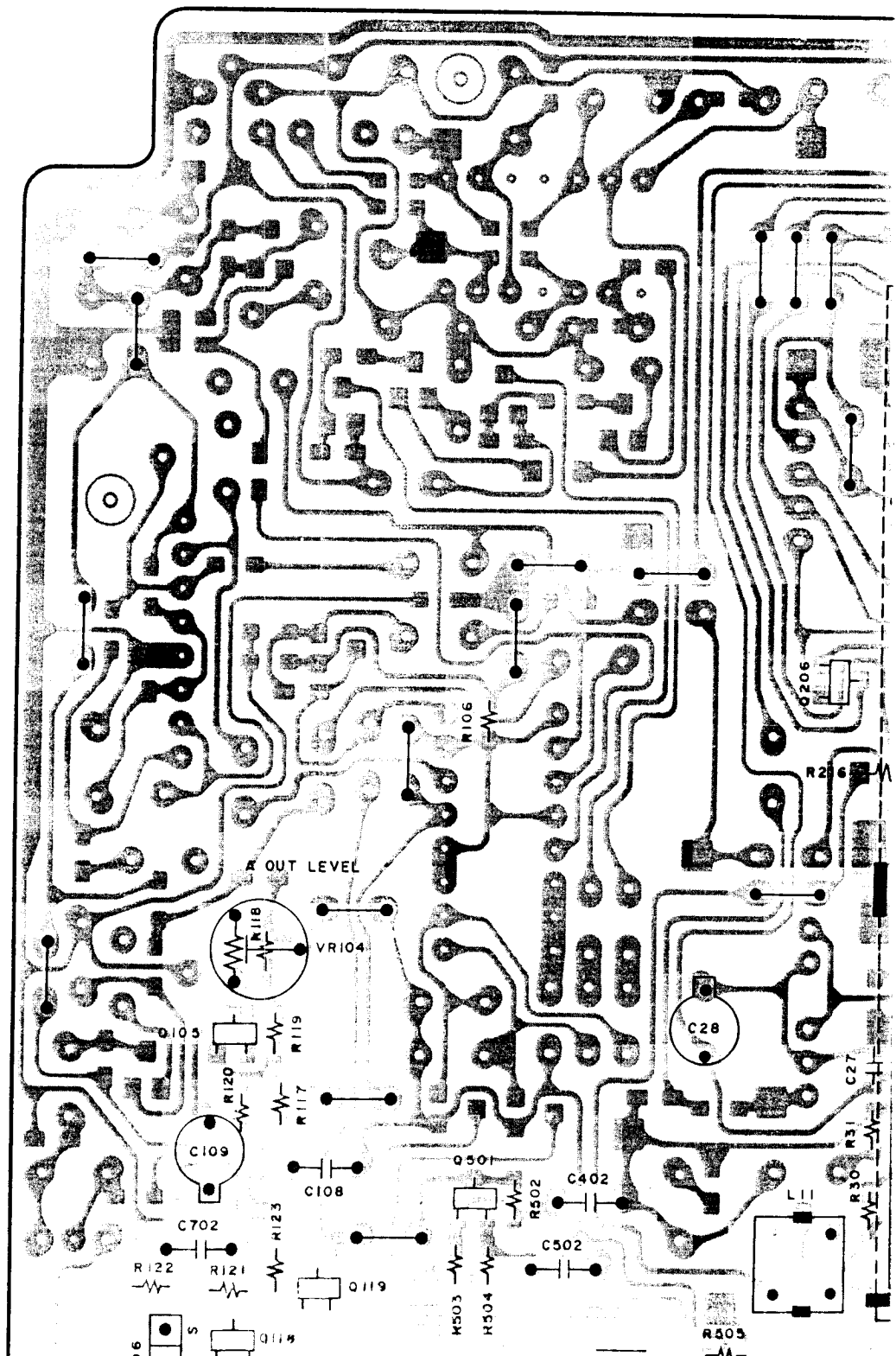
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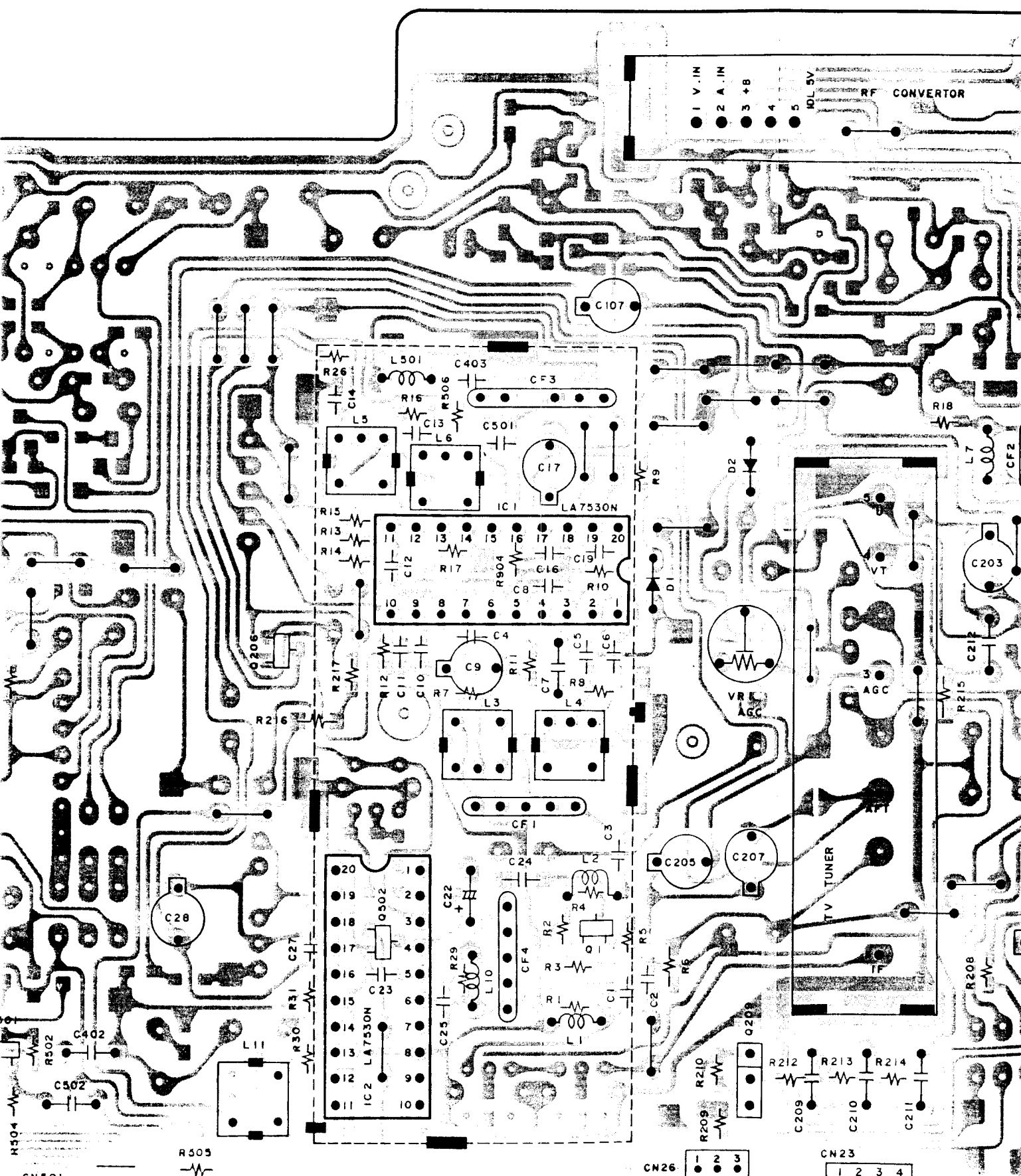


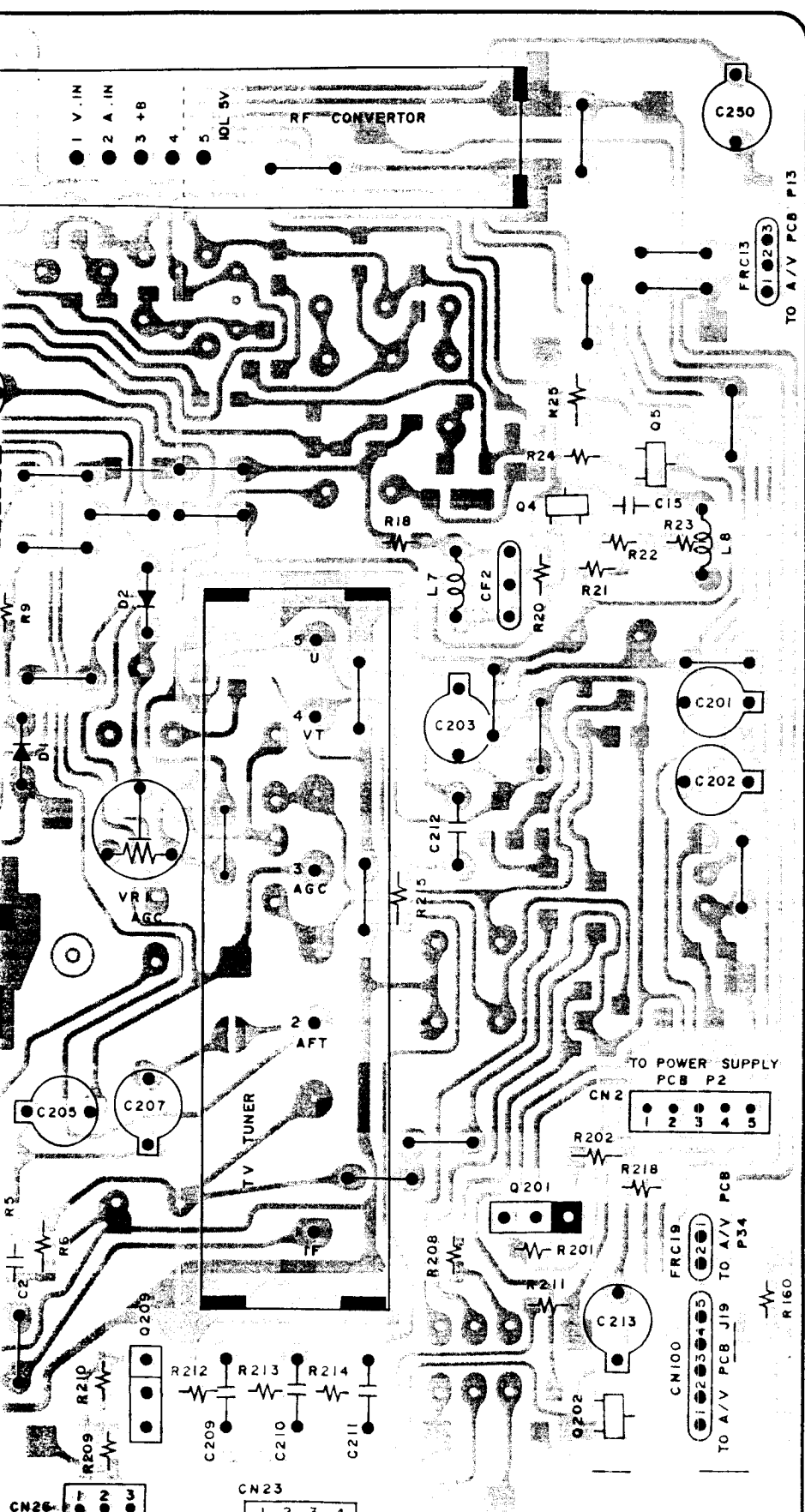
25A1286



25J 103







THE VALUE OF CHIP RESISTOR
IS EXPRESSED AS FOLLOWING

$$A3 = 10 \times 10^3 = 1K \text{ ohms}$$

$$333 = 33 \times 10^3 = 33K \text{ ohms}$$

SYMBOL	VALUE
A	1.0
C	1.2
E	1.5
G	1.8
J	2.2
K	2.4
L	2.7
M	3.6
N	3.3
P	3.6
S	4.7
W	6.8
Y	8.2

CHIP TRANSISTOR



LF : 2SC3052
MF : 2SA1235F
N1 : RTIN141C
N3 : RTIN441C
JC : 2SC2735
I6 : RTIP441C



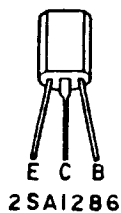
FET



PNP TRANSISTOR



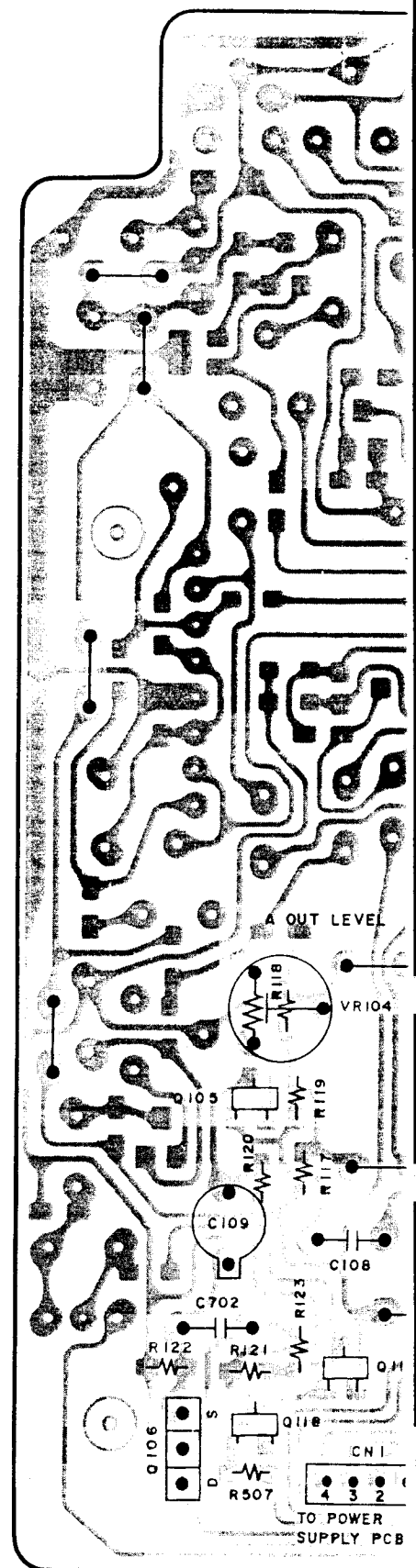
NPN TRANSISTOR



2SA1286



2SJ103



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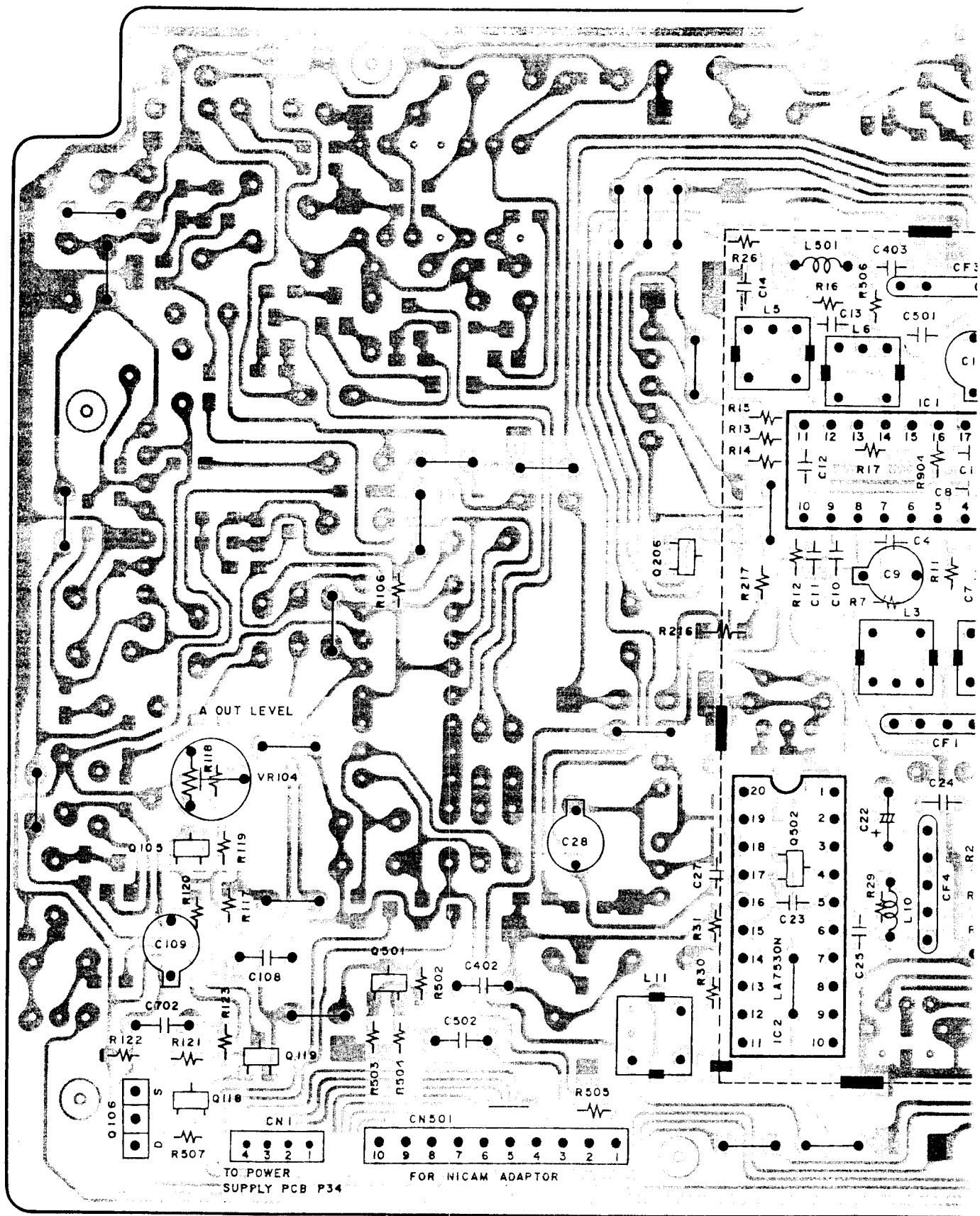
RESISTOR
LOWING

1ms
ohms

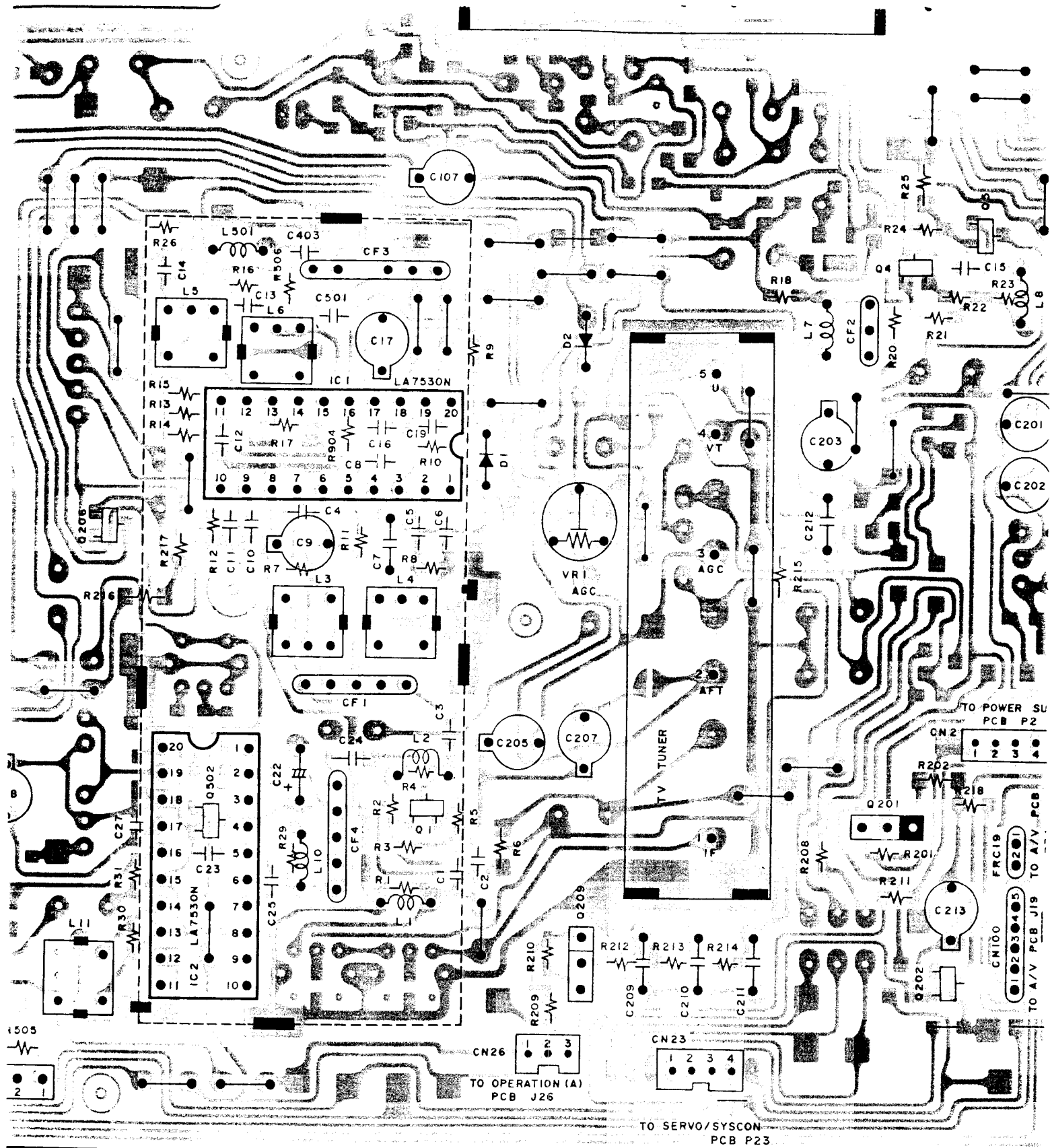
R
3052
1235F
1141C
1441C
2735
1441C

ISTOR
ISTOR

GG D
J103

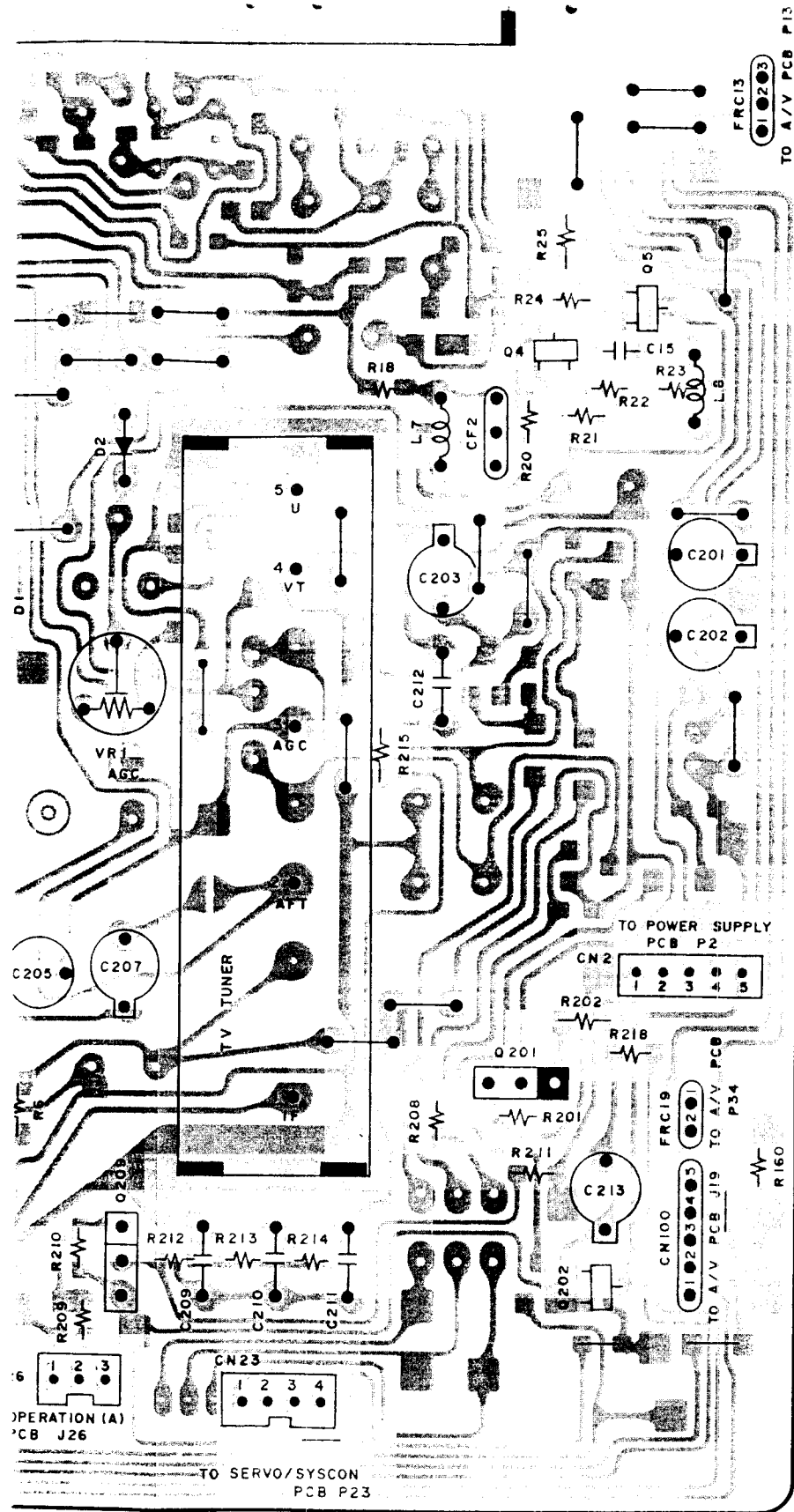


RF PCB 6A00225



RF PCB 6A00225A1

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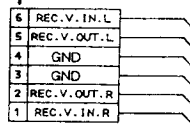


A

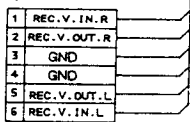
B

C

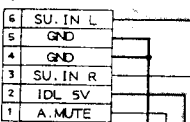
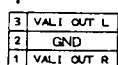
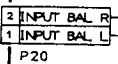
D

TO OPERATION (B) PCB
P18

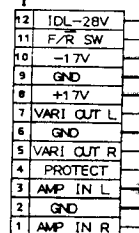
TO A/V PCB P301



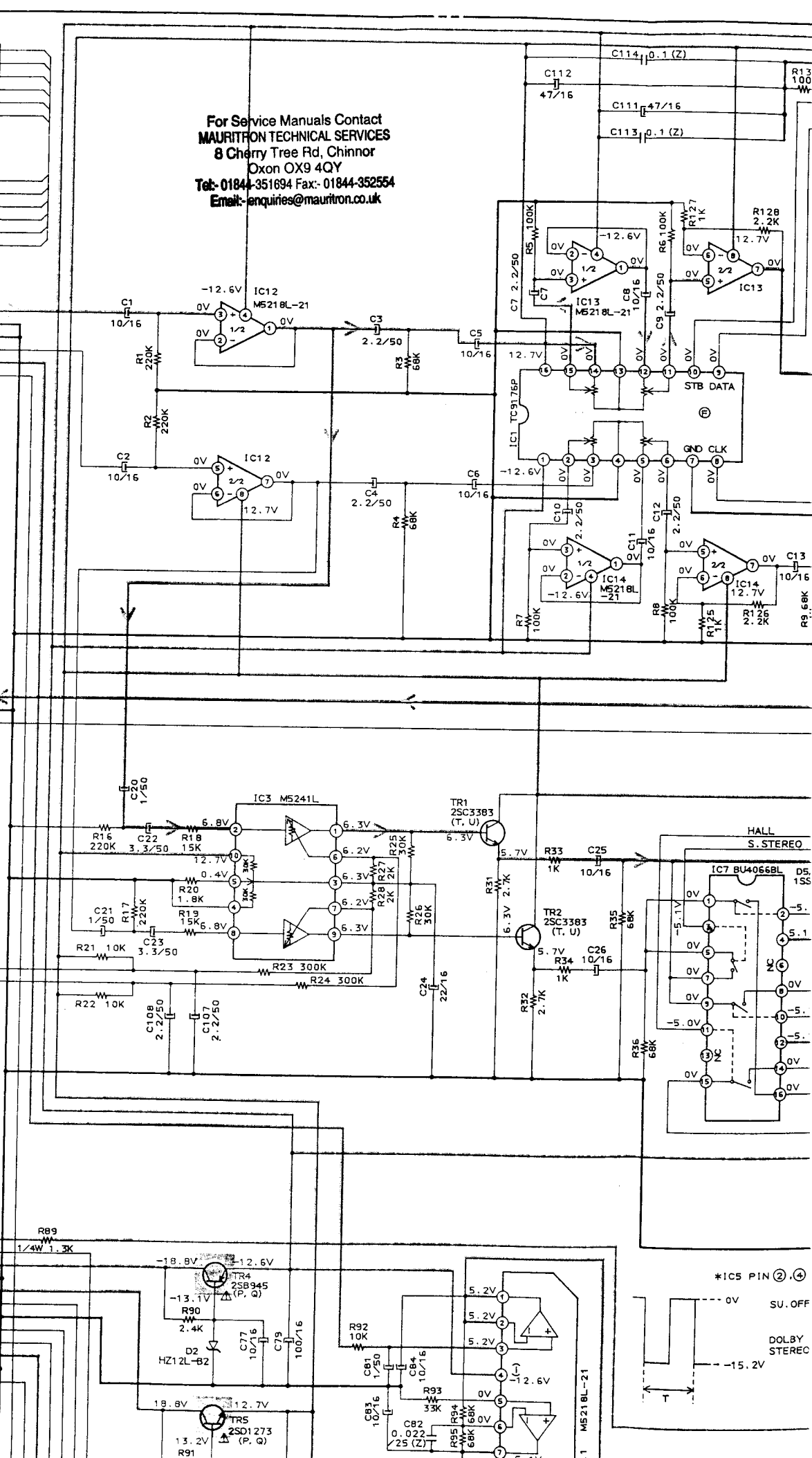
TO A/V PCB P302

TO CHROMA PCB
P29TO OPERATION PCB
J20

TO MAIN AMP PCB J10



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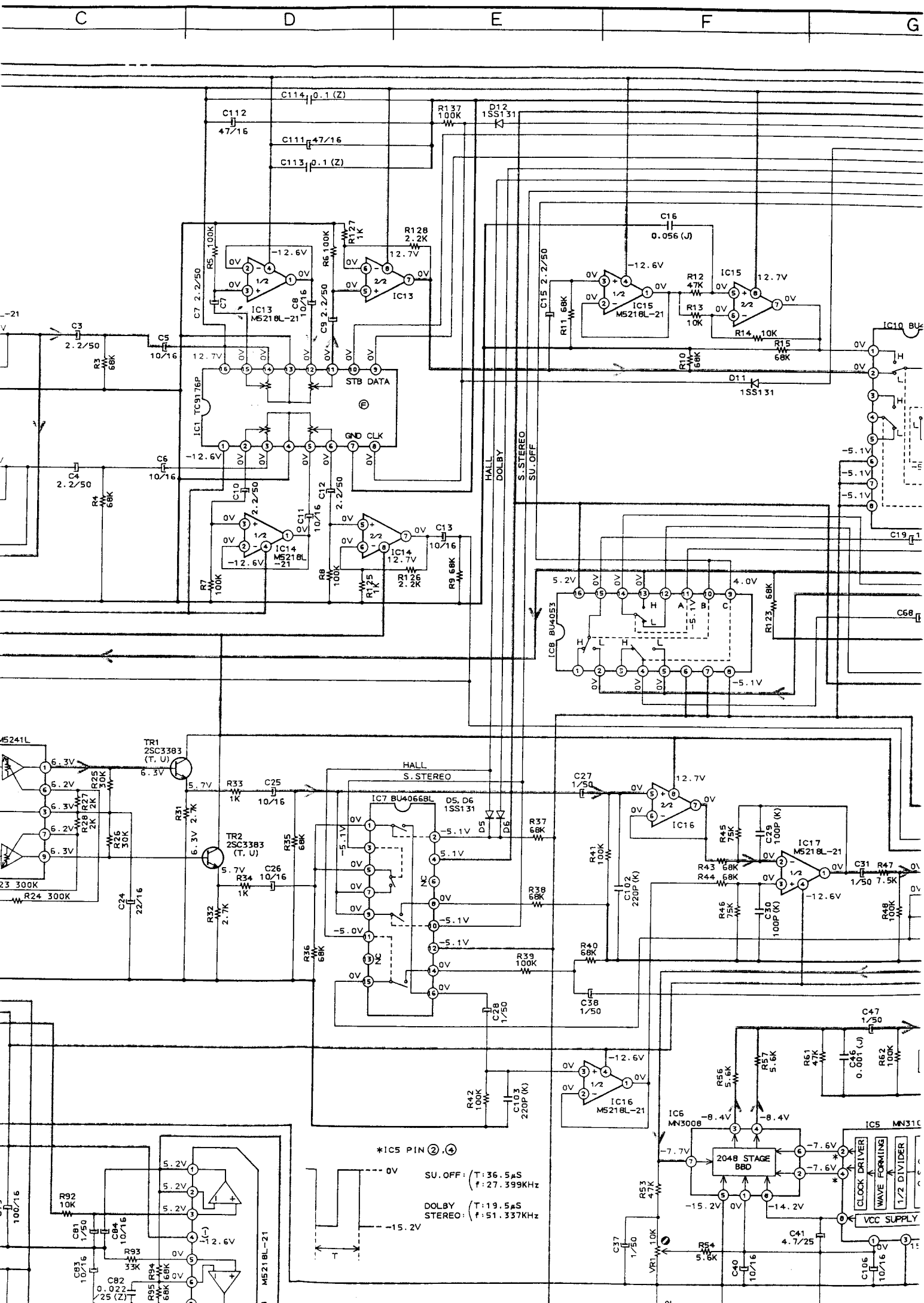


*IC5 PIN ②④

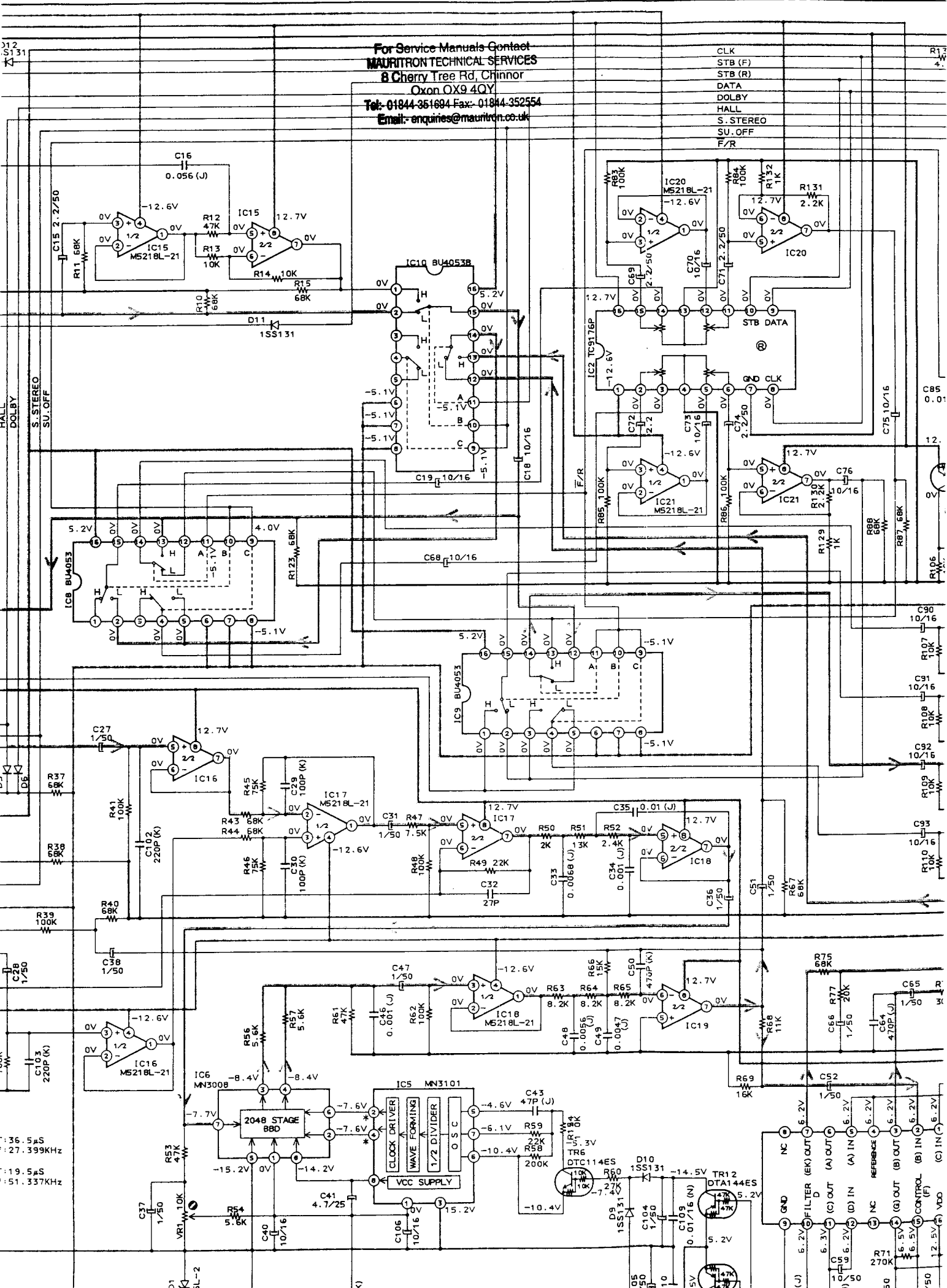
SU.OFF

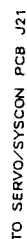
DOLBY STEREO

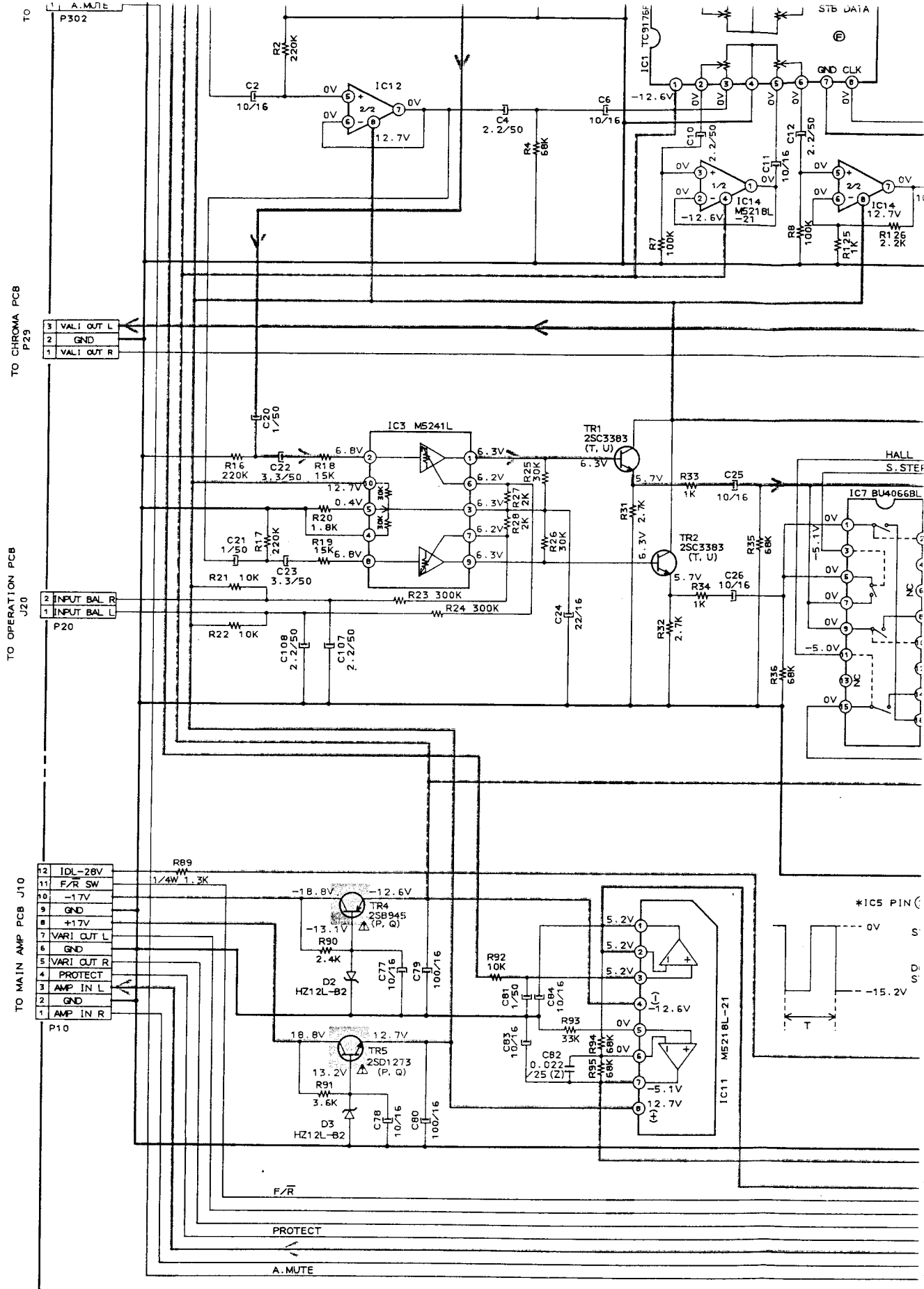
-15.2V



CLK
STB (F)
STB (R)
DATA
DOLBY
HALL
S. STEREO
SU. OFF
F/R







SURROUND PCB V1086B503A

INDICATED VOLTAGE MEASURED

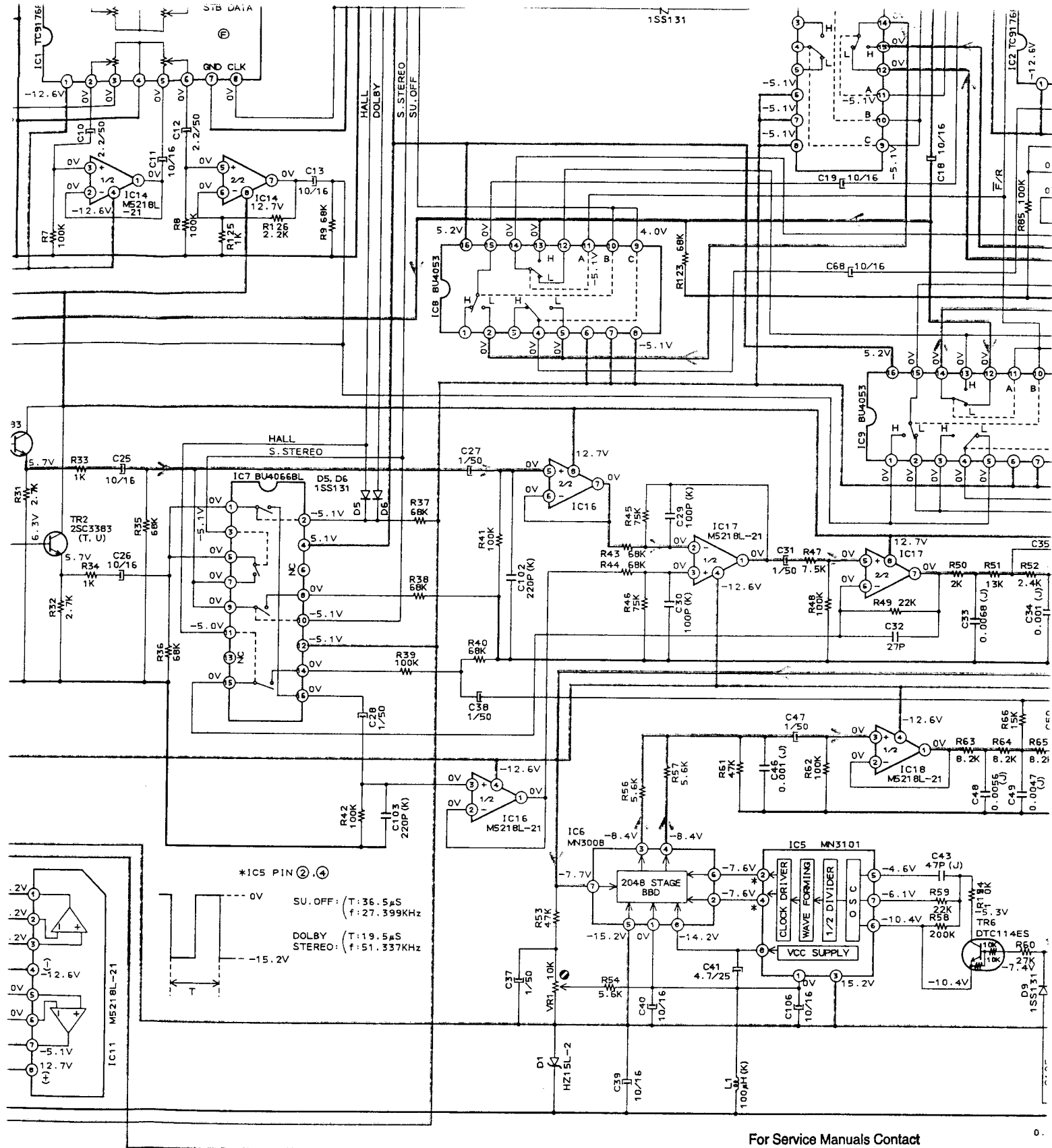
- +B (POWER)
- - - -B (POWER)
- Lch SIGNAL

A

B

C

D



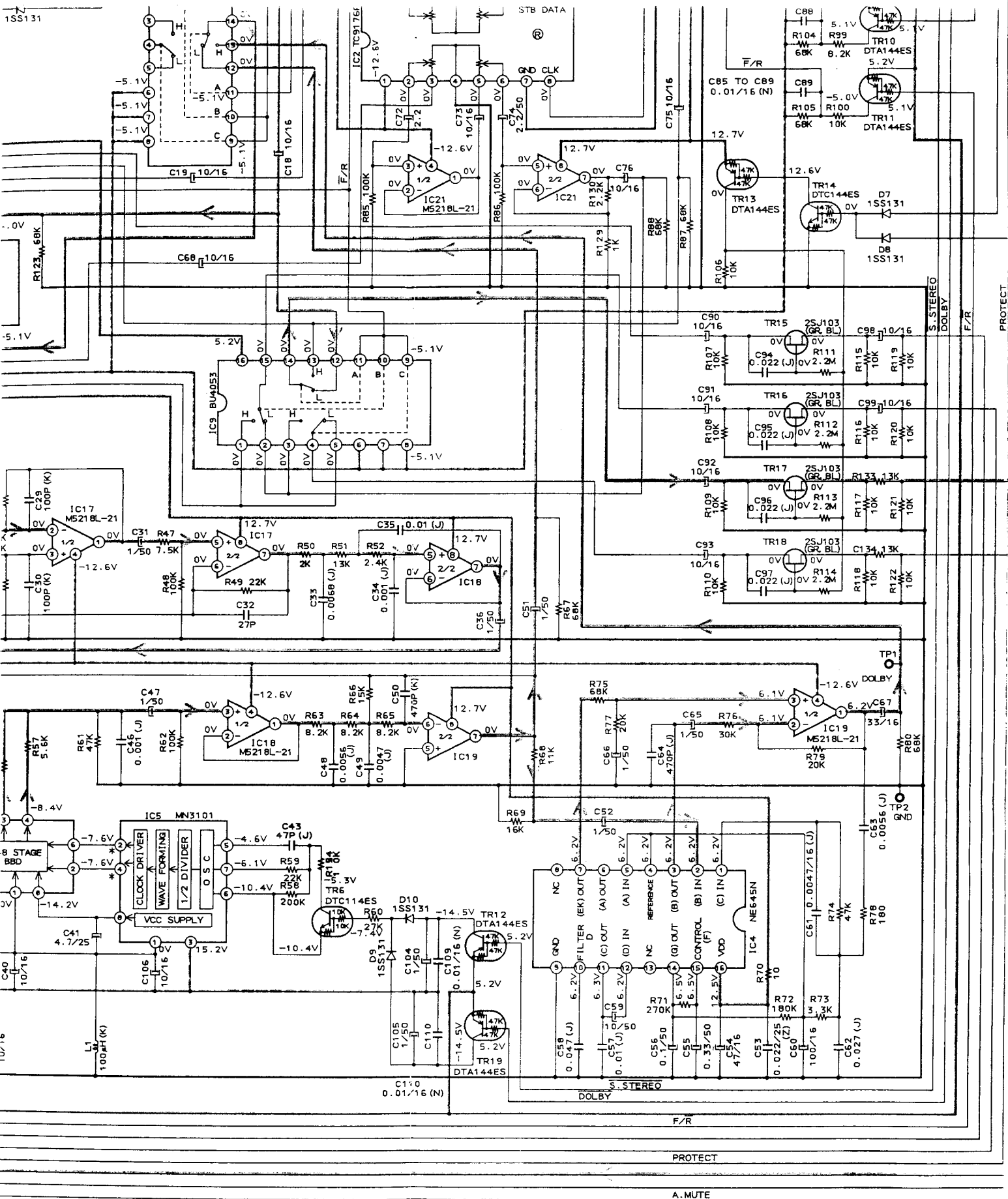
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D

E

F

G



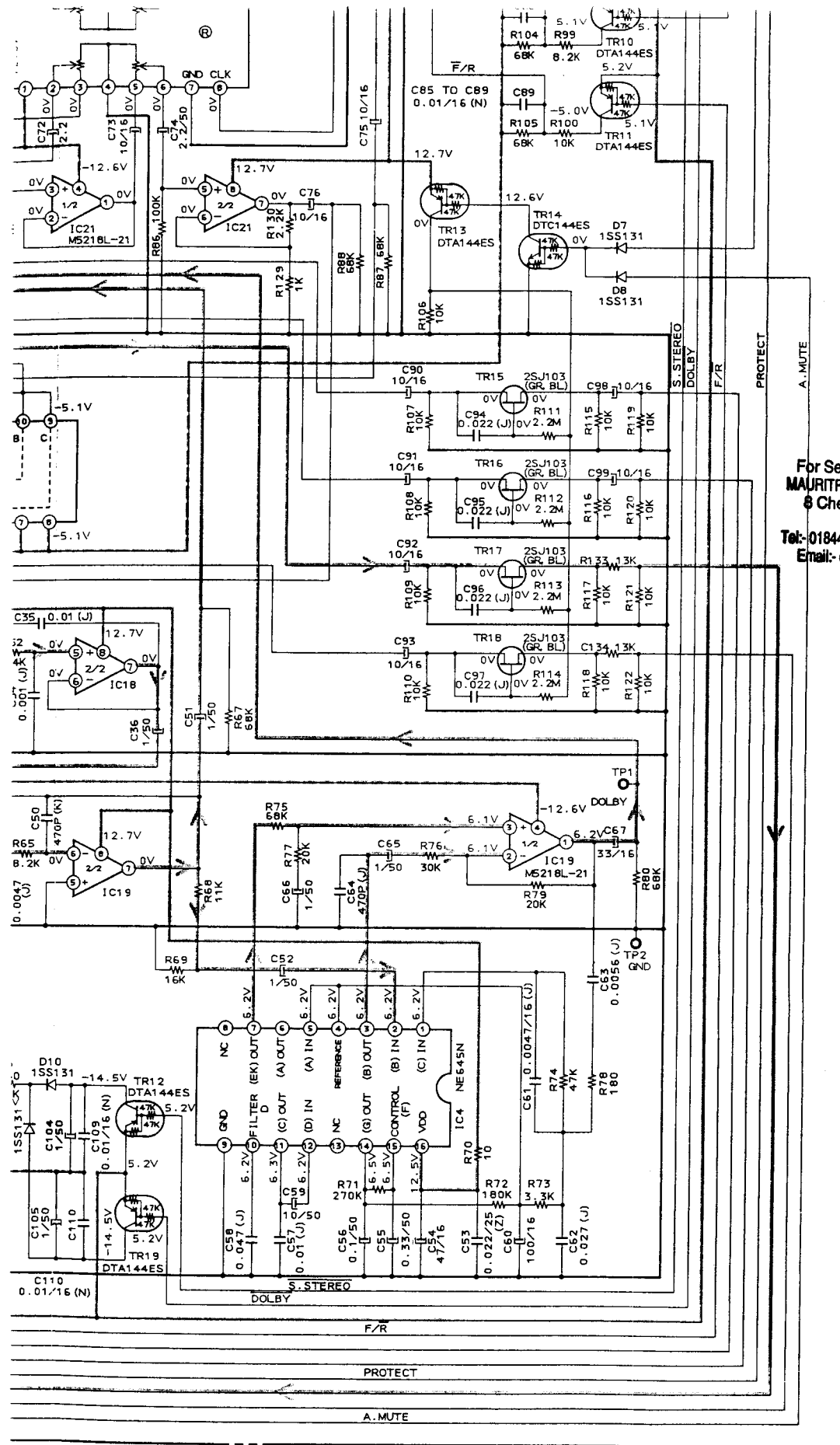
ARNING: Δ AND \square INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

VERTISSMENT: Δ ET \square , ILS INDIQUENT LES COMPOSTANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/6W(J)
ALL CAPACITORS IN μ F 50WV(M)

VS-A77E
SURROUND
SCHEMATIC

NO. 14-8



For Service Manuals Contact
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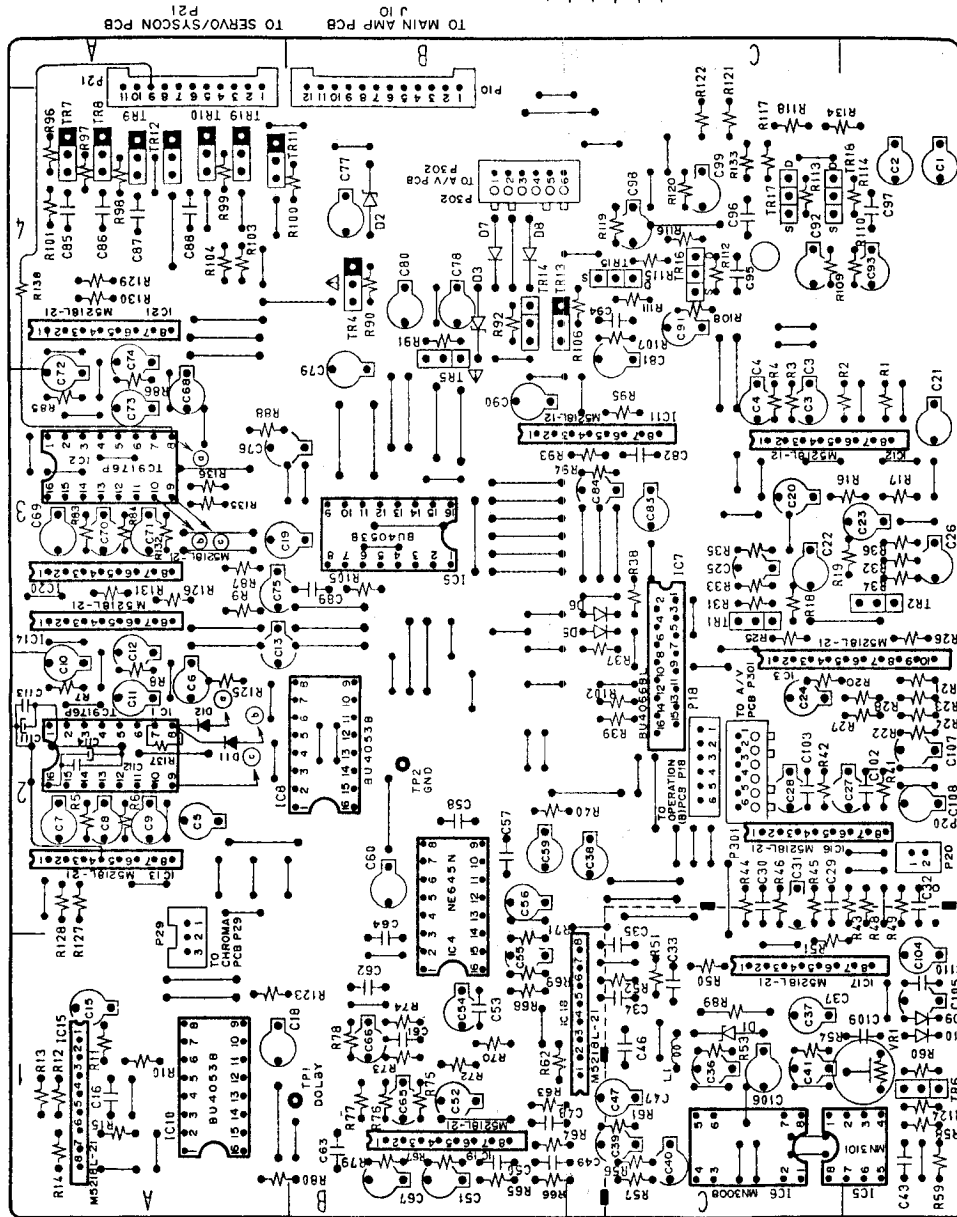
NOTE
 UNLESS OTHERWISE SPECIFIED
 ALL RESISTORS IN OHMS (Ω)
 ALL CAPACITORS IN pF (pF) OR nF (nF)

VS-A77EK
 SURROUND PCB
 SCHEMATIC DIAGRAM
 NO.14-8 V108607F

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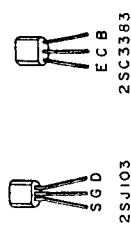
PRINCIPAL	PARTS	LOCATION
IC5	TRANSISTORS	
IC1	TR1	C3
IC2	TR2	D3
IC3	TR4	B4
IC4	TR5	B4
IC5	TR6	D1
IC6	TR7	A1
IC7	TR8	A4
IC8	TR9	A4
IC9	TR10	A4
IC10	TR11	A4
IC11	TR12	A4
IC12	TR13	B4
IC13	TR14	B4
IC14	TR15	C4
IC15	TR16	C4
IC16	TR17	C4
IC17	TR18	C4
IC18	TR19	A4
IC19	TR20	A3
IC20	TR21	A4
IC21	TR22	A4

CONNECTORS	
P10	B4
P18	C2
P20	D2
P21	A4
P29	A1,2
P301	C2
P302	B, C4

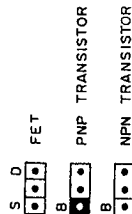


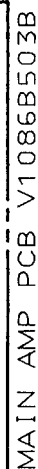
SURROUND PCB V1086B503A

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 REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S
 RECOMMENDED PARTS.
 AVERTISSEMENT: IL INDIQUE LES COMPOSANTS CRITIQUES DE SECURITE.
 POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL.
 NE REMPLACER QUE DES PIECES RECOMMANDEES PAR LE FABRICANT.



TR1,2.....2SC3383
 TR4.....2S8945
 TR5.....2SD1273
 TR6,14.....DTC144ES
 TR7,8,9,10,11,12,13,19.....DTA144ES
 TR15,16,17,18.....2SJ103

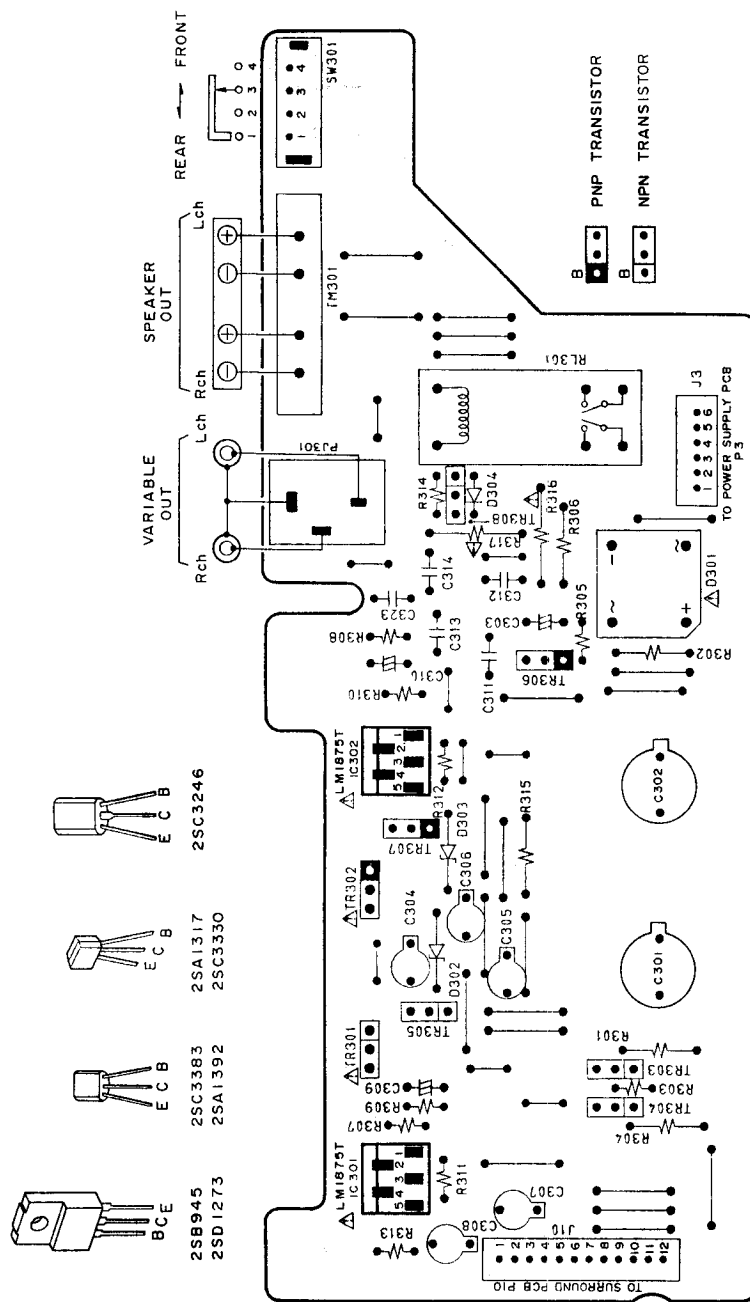




PARIS
AVERTISSEMENT: Δ ET Ω, ILS INDIQUENT LES
COMPOSANTS CRITIQUES DE SÉCURITÉ,
POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ
DE L'APAREIL, NE REMPLACER QUE DES
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VS-A77EK
MAIN PCB
SCHEMATIC
NO. 14-9 V

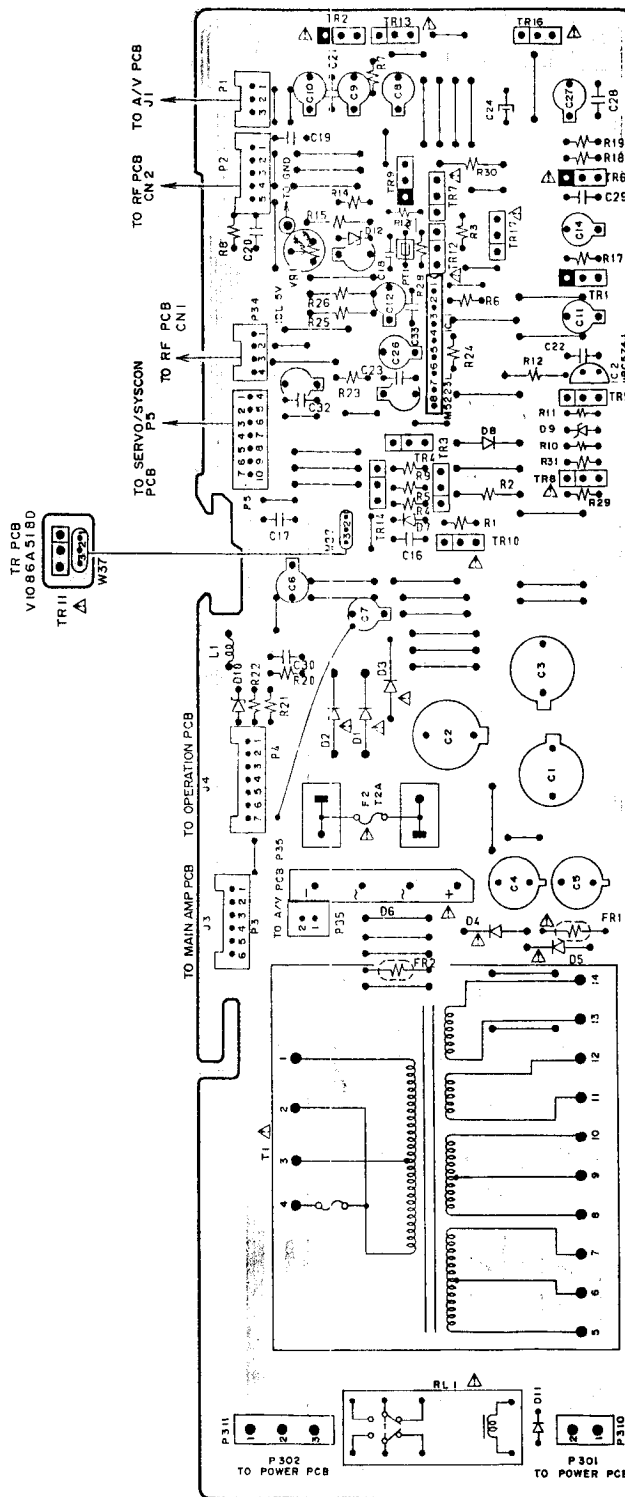
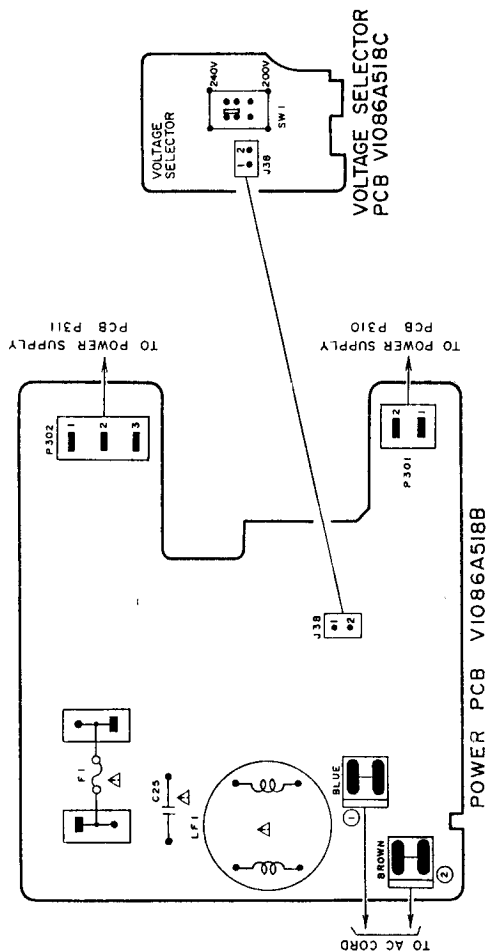
NOTE
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ALL CAPACITORS IN μ F 50WV(M)



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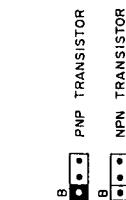
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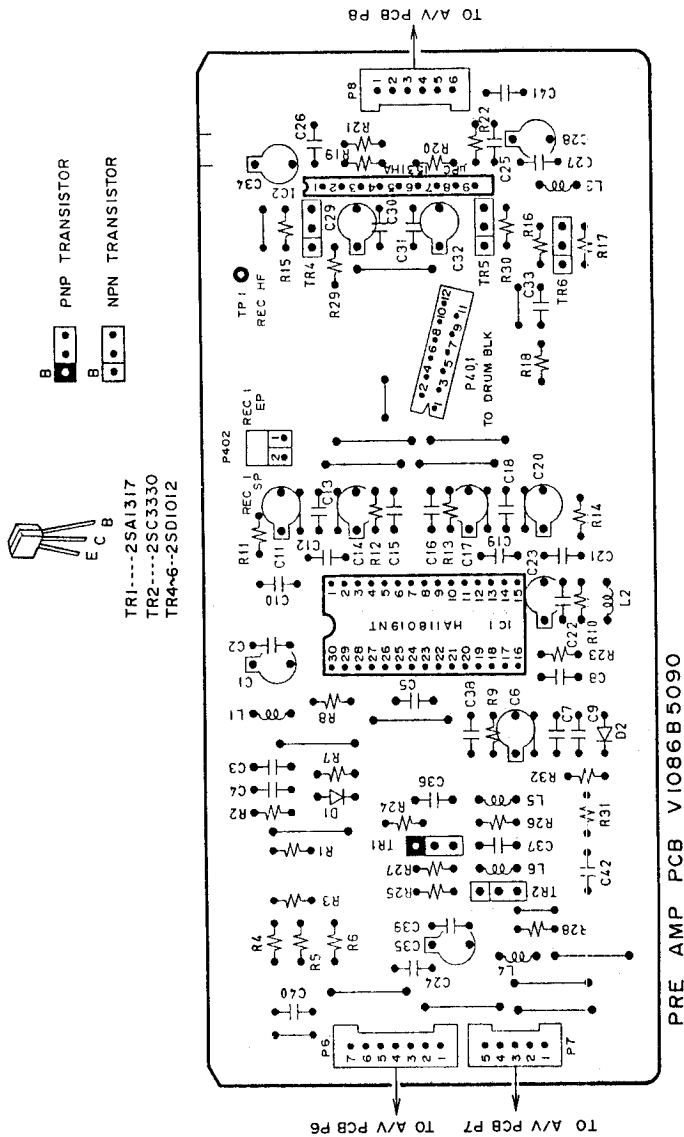
POWER SUPPLY PCB VIO86A518A

TR1	2SA1317
TR2	2SA1286
TR3, 4, 5	2SC3330
TR6	2SA1287
TR7, 17	2SC3246
TR8	2SC3247
TR9	2SA1317
TR10	2SD1944
TR12, 13, 16	2SD1761
TR14	DTC144ES

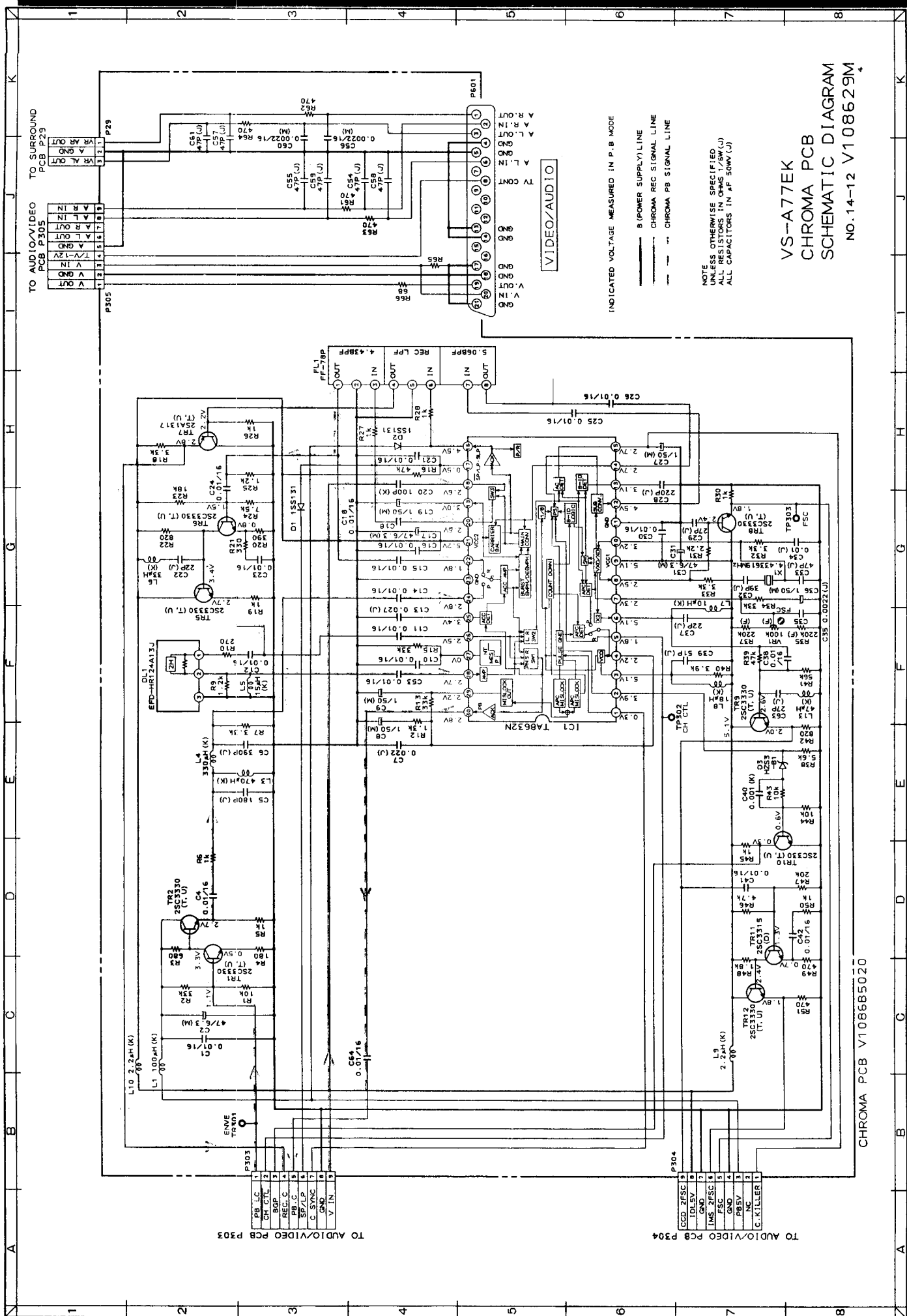
PNP TRANSISTOR	2SA1317
PNP TRANSISTOR	2SC3330
PNP TRANSISTOR	2SA1287
PNP TRANSISTOR	2SC3246
PNP TRANSISTOR	2SC3247
NPN TRANSISTOR	2SD1761
NPN TRANSISTOR	2SD1944
NPN TRANSISTOR	DTC144ES



WARNING: INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY.
 REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S
 RECOMMENDED EQUIVALENTS.
 AVERTISSEMENT: IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ.
 POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL,
 NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.



For Service Manuals Contact
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 8 Cherry Tree Rd, Chinnor
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 Tel: 01844-351694 Fax: 01844-352554
 Email: enquiries@maurtron.co.uk



VS-A77EK
CHROMA PCB
SCHEMATIC DIAGRAM
NO. 14-12 V108629M

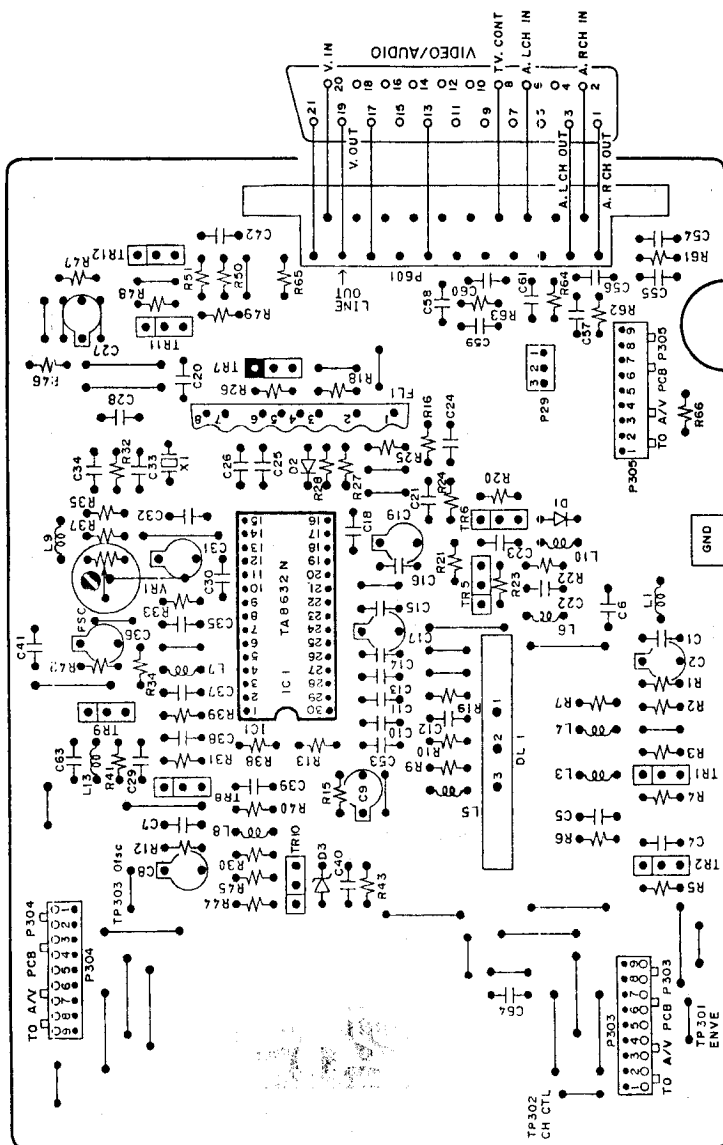
INDICATED VOLTAGE MEASURED IN P.B. MODE

— B (POWER SUPPLY) LINE
— CHROMA REC SIGNAL LINE
— CHROMA PB SIGNAL LINE

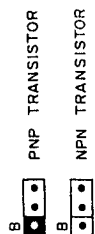
NOTE: UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/8W (J)
ALL CAPACITORS IN μF 50WV (J)

VIDEO/AUDIO

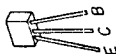
CHROMA PCB V1086B5020



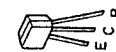
CHROMA PCB V1086B5020



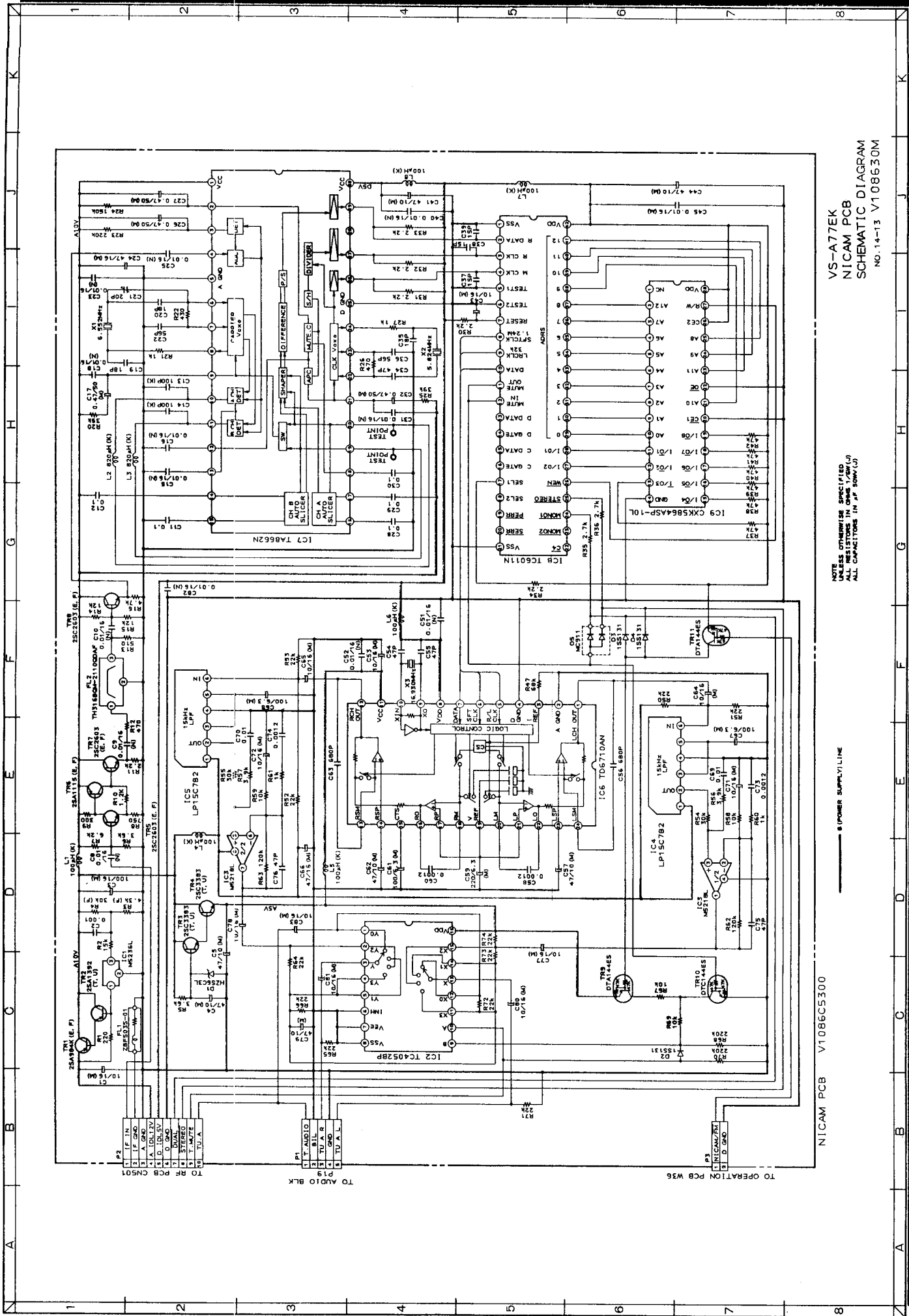
TR1, 2, 5, 6
8, 9, 10, 12 --- 2SC3330
TR3 --- DTC114ES
TR7 --- 2SA1317
TR11 --- 2SC3315



2SA1317
2SC3330
DTC114ES



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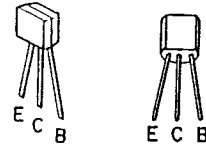
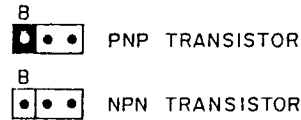


VS-A77EK
NICAM PCB
NO. 14-13 V108630M

NOTE: COMPONENTS SPECIFIED
ALL RESISTORS IN OHMS, K (K) OR M (M)
ALL CAPACITORS IN P (P) OR N (N)

POWER SUPPLY LINE

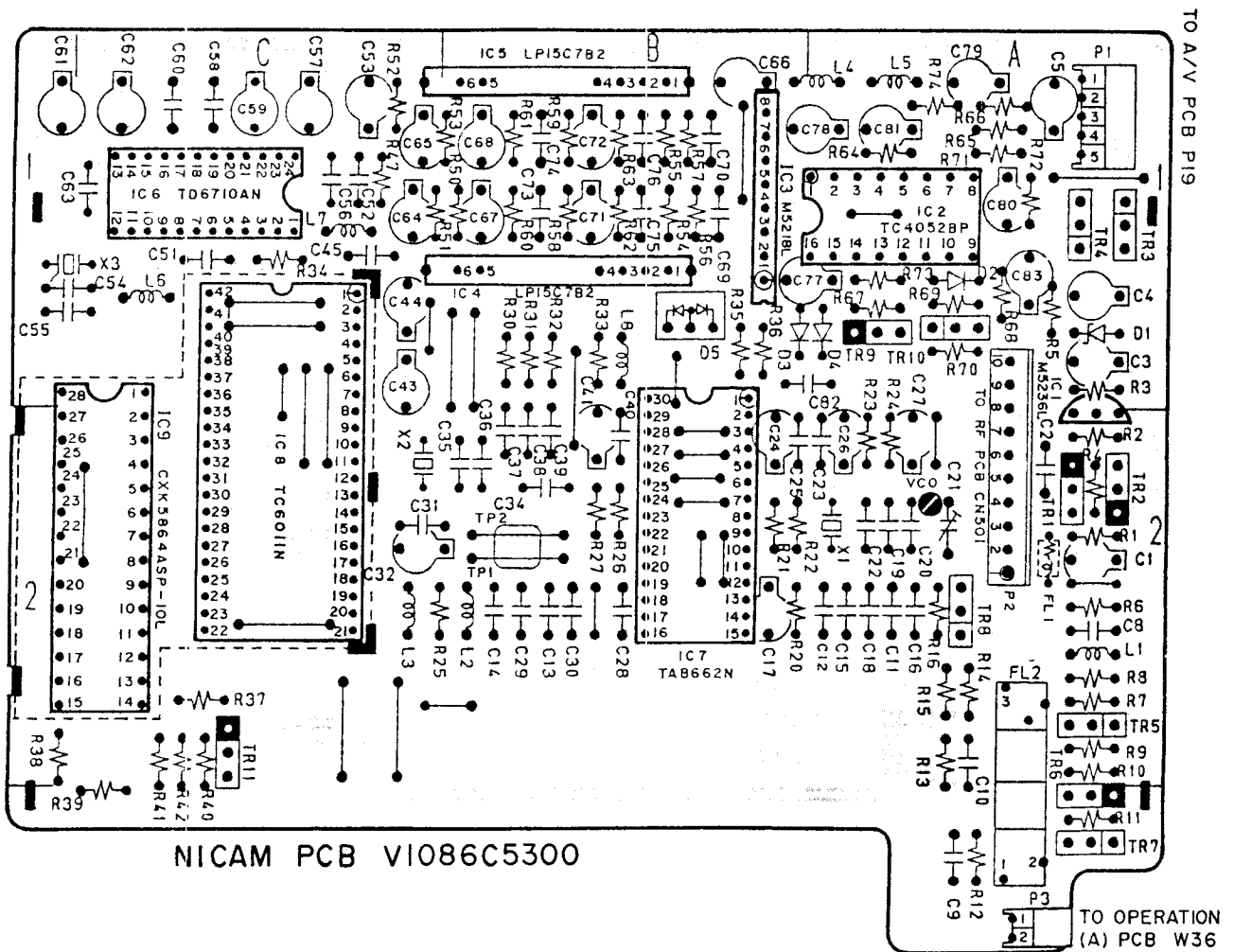
NICAM PCB V1086C5300



TR1 2SA984K
 TR2 2SA1392
 TR3,4 2SC3383
 TR5,7,8 2SC2603
 TR6 2SA1115
 TR9,11 DTA144ES
 TR10 DTC144ES

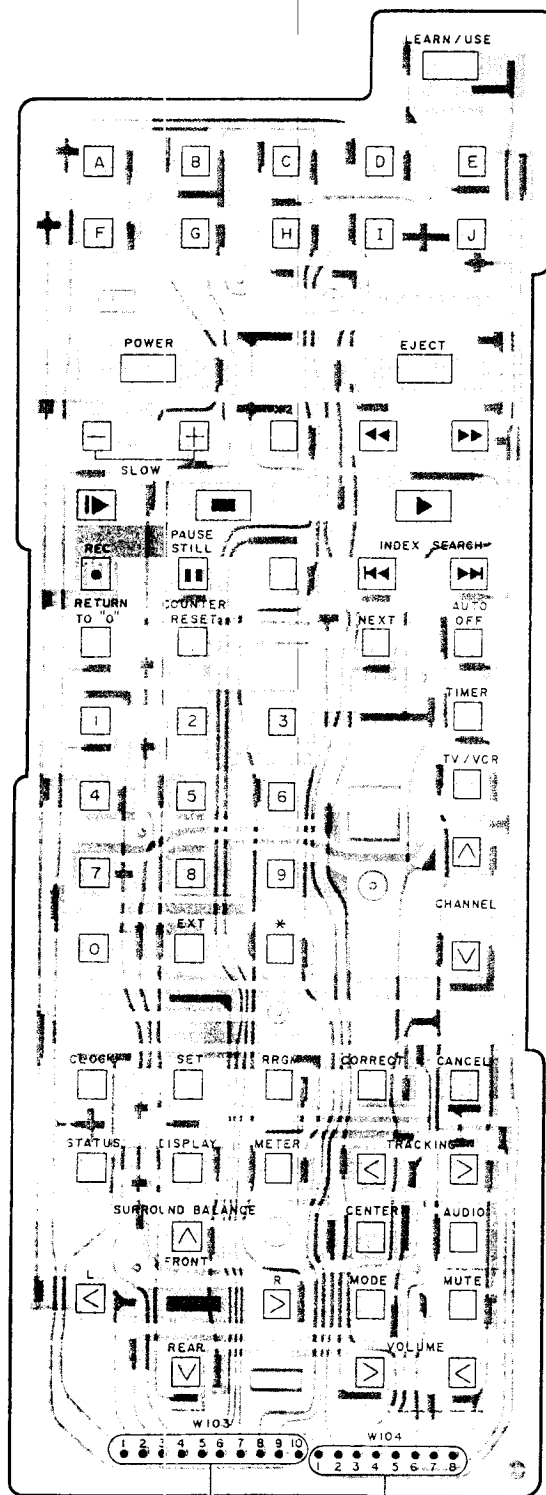
DTA144ES 2SA984
 DTC144ES 2SA1392
 2SA1115 2SC3330
 2SC2603

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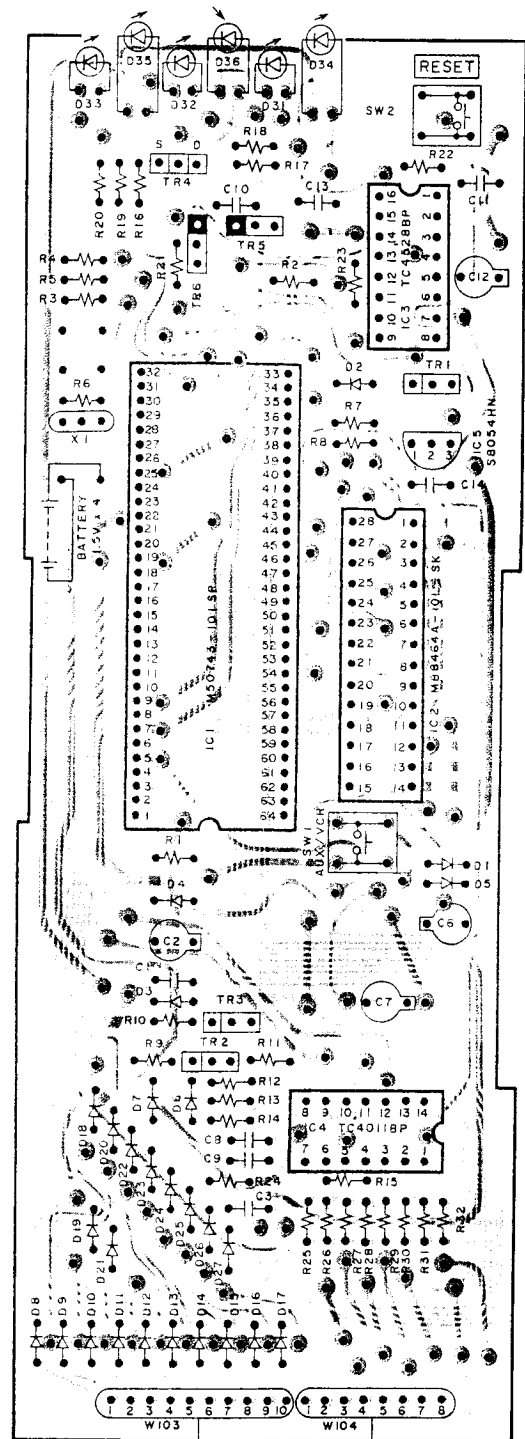
TO A/V PCB P19

TO OPERATION (A) PCB W36

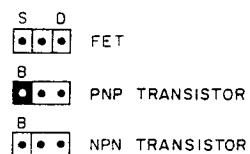


* SP/LP

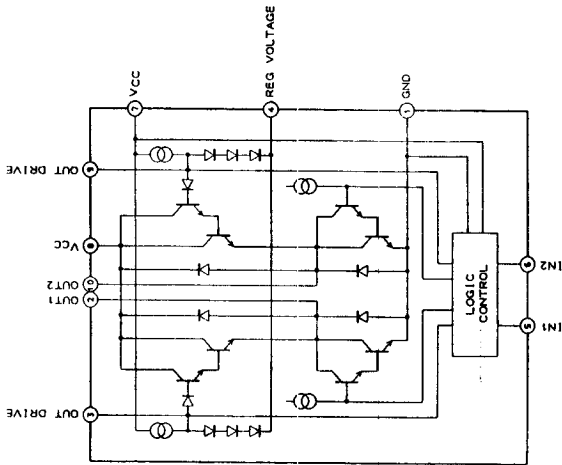
TO REMOTE CONTROL (1) PCB
REMOTE CONTROL (2) PCB
N4004B5020



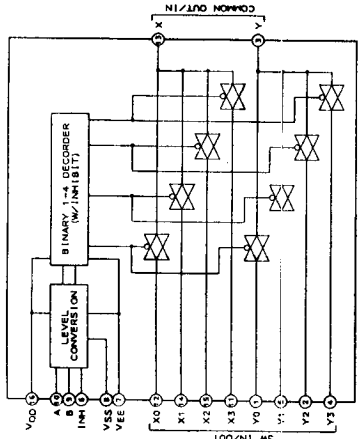
TO REMOTE CONTROL (2) PCB
REMOTE CONTROL (1) PCB
N4004B5010



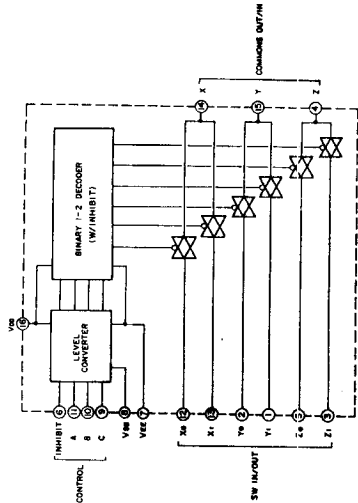
BA6229 (BI-DIRECTIONAL MOTOR DRIVER)



BU4052B (DUAL 4CH.
MULTIPLEXER/DEMULTIPLEXER)

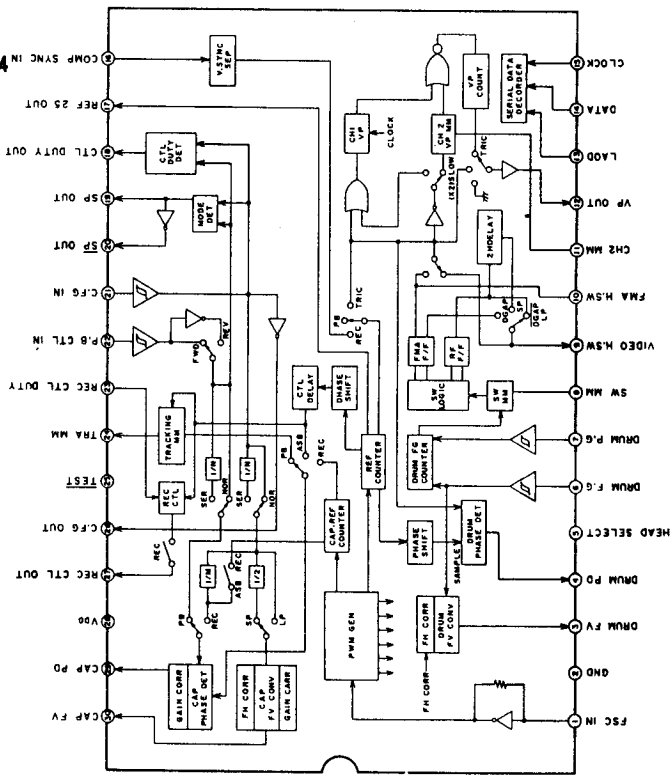


BU4053B (TRIPLE 2CH.
MULTIPLEXER/DEMULTIPLEXER)

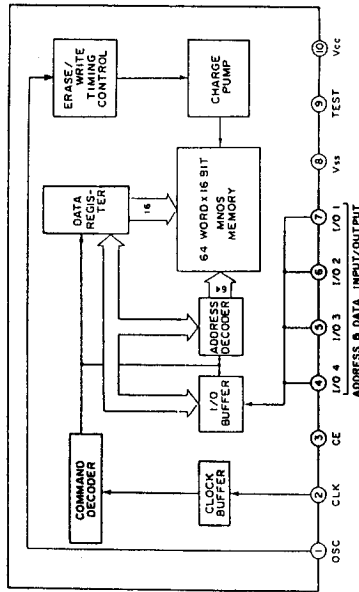


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BU2753S (DIGITAL SERVO)



CXK1008L (NON VOLATILE RAM)



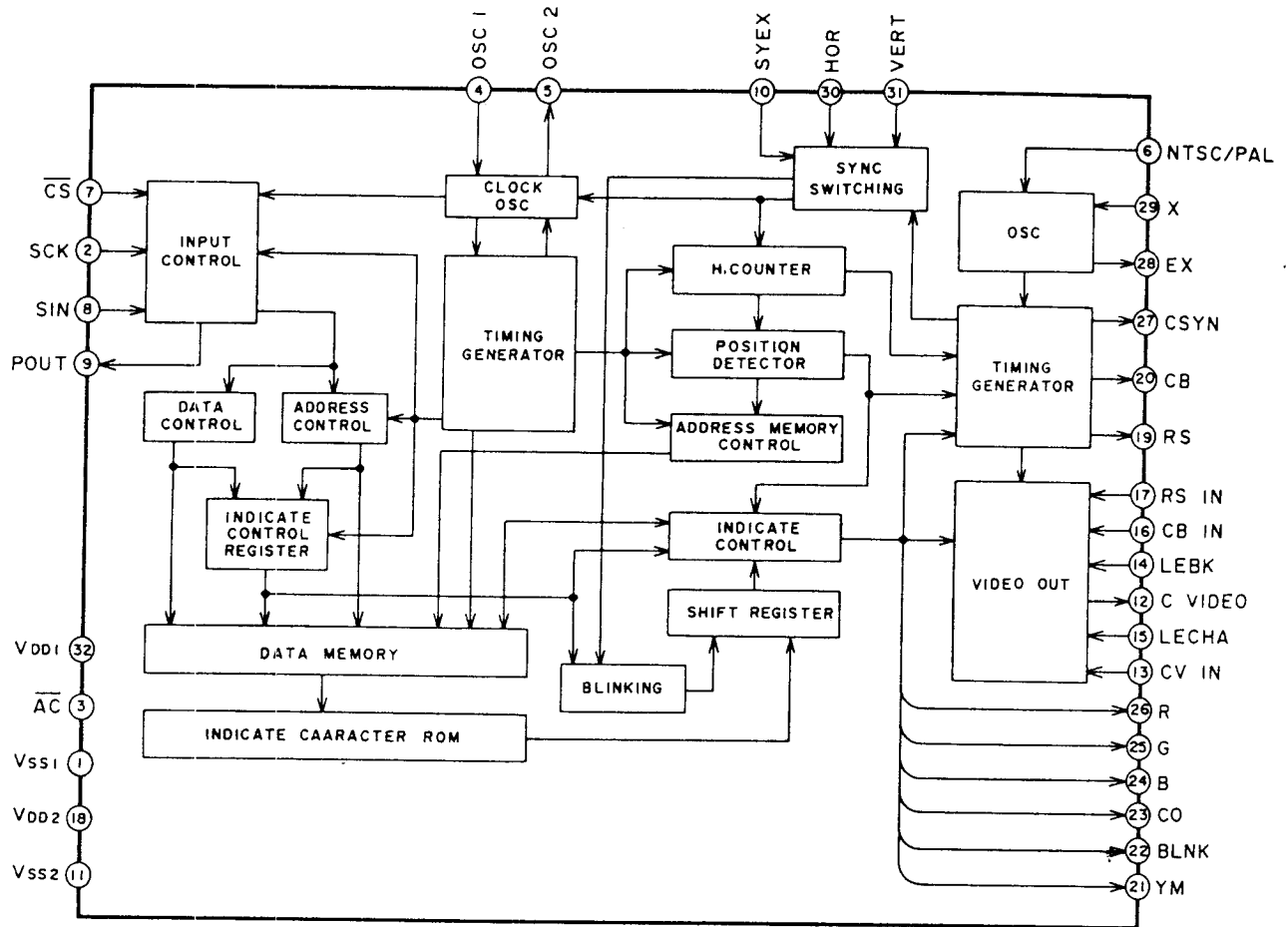
LH5164L-15 (8192WORDX8BIT
CMOS STATIC RAM)

SYMBOL	PORT NAME
AO-A12	ADDRESS INPUTS
R/W	READ/WRITE INPUT
OE	OUTPUT ENABLE INPUT
CE	CHIP ENABLE INPUT
DO-D7	DATA IN/OUTPUT
VDD	+5V
GND	GROUND

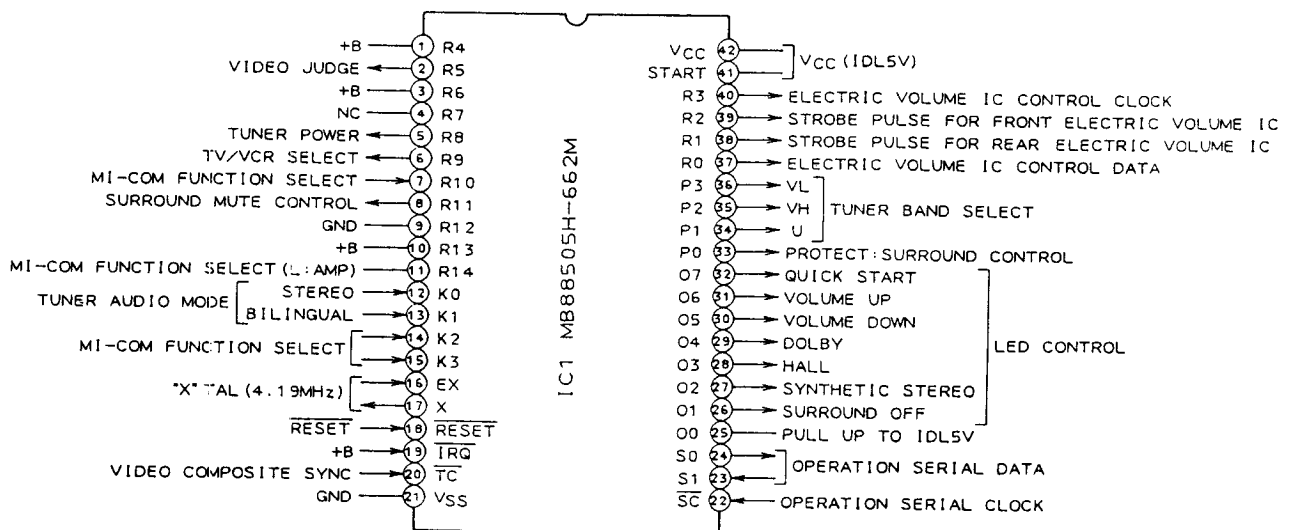
TRUTH TABLE		ON CHANNEL	
CONTROL	DATA	A	B
INH	A	B	C
L	L	L	L
L	L	L	H
L	L	H	L
L	L	H	H
L	H	L	L
L	H	L	H
L	H	H	L
L	H	H	H
H	*	*	*

TRUTH TABLE		ON CHANNEL	
CONTROL	DATA	A	B
INH	A	B	C
L	L	L	L
L	L	L	H
L	L	H	L
L	L	H	H
L	H	L	L
L	H	L	H
L	H	H	L
L	H	H	H
H	*	*	*

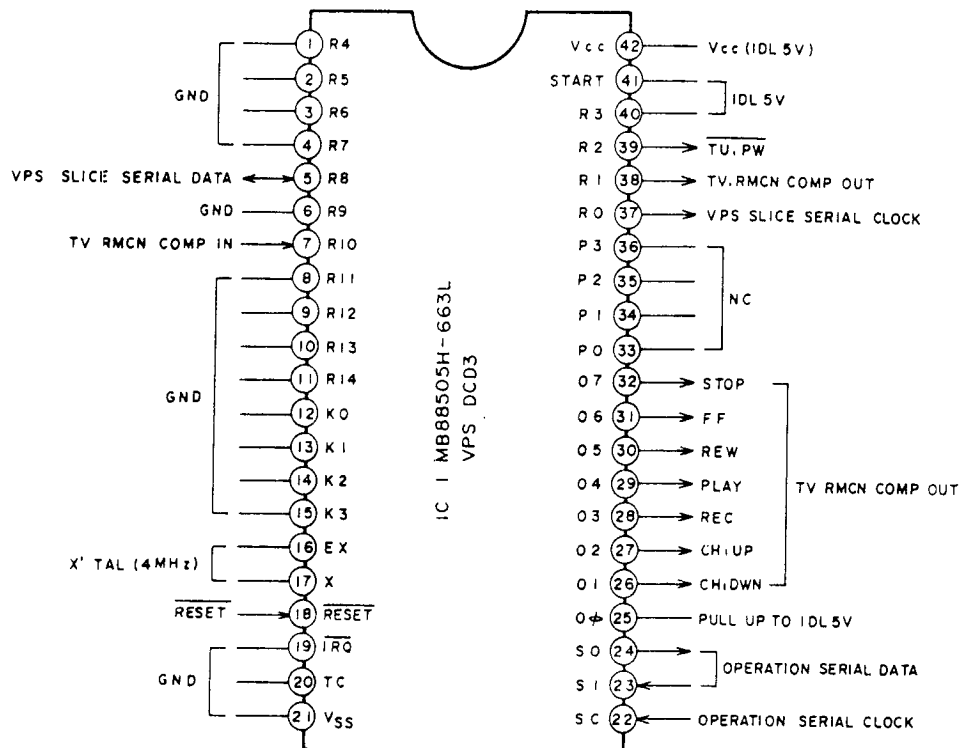
M50455-084SP (CHARACTOR GENERATOR)



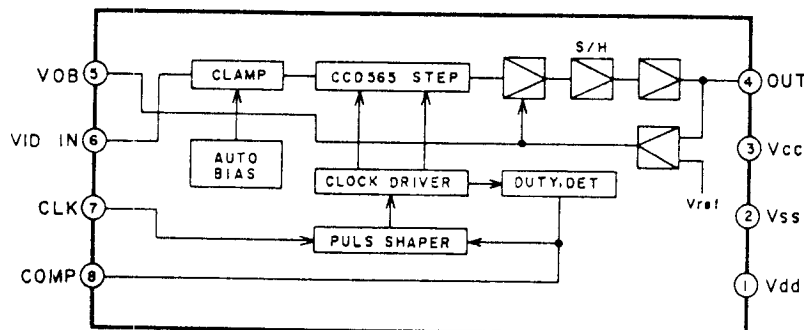
MB88505H-662H (AUDIO MI-COM)



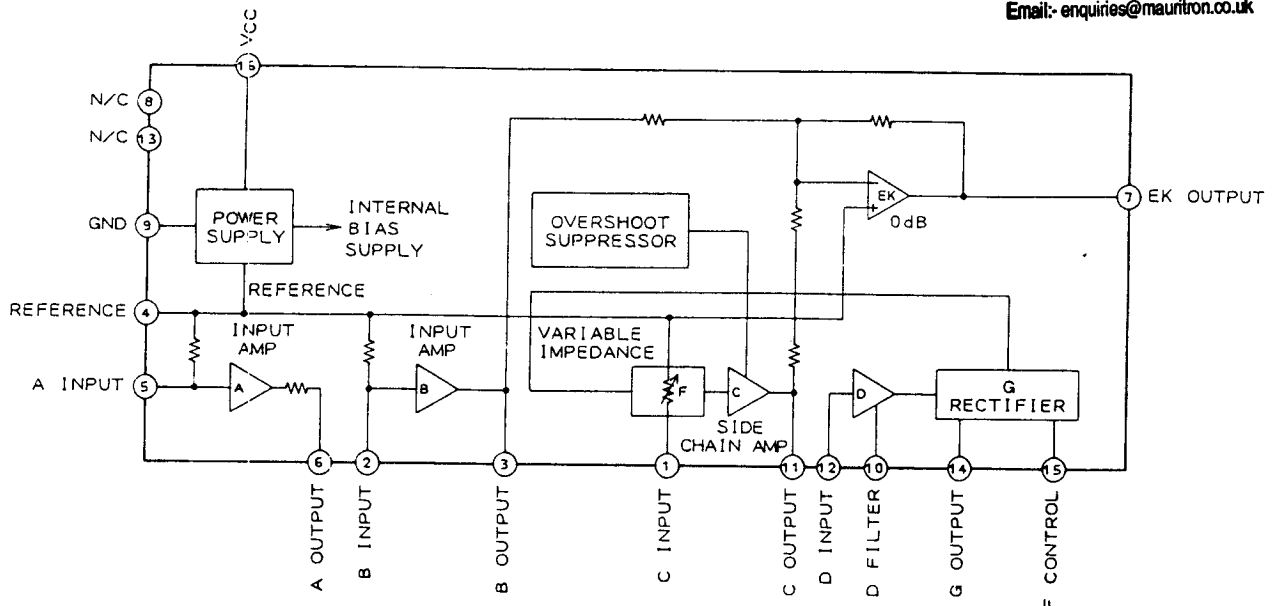
MB88505H-663L (VPS MI-COM)



MSM6965-3RS (CCD)

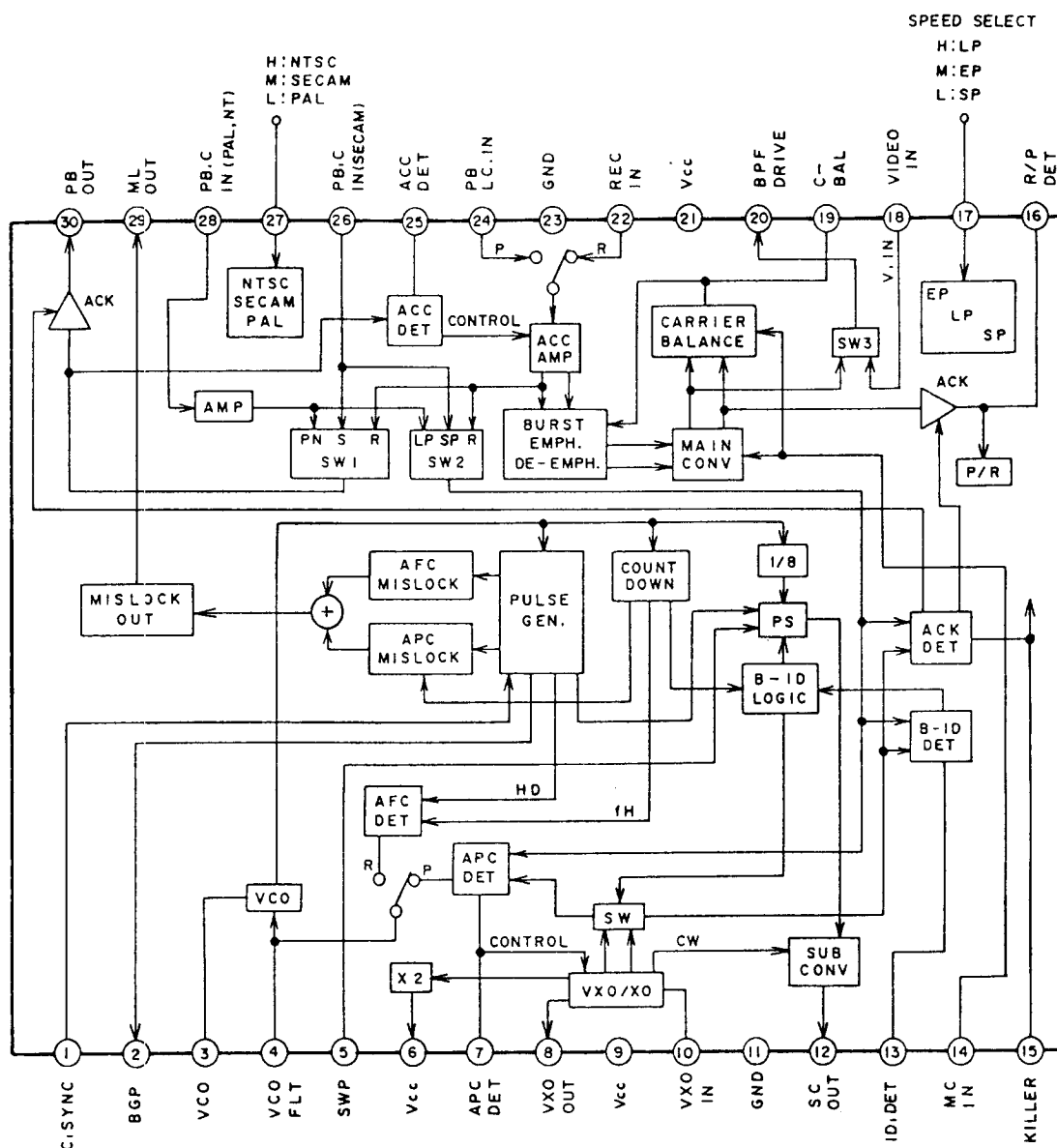


NE645N (DOLBY NOISE REDUCTION)



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TA8632 (VIDEO C-SIGNAL PROCESSING)



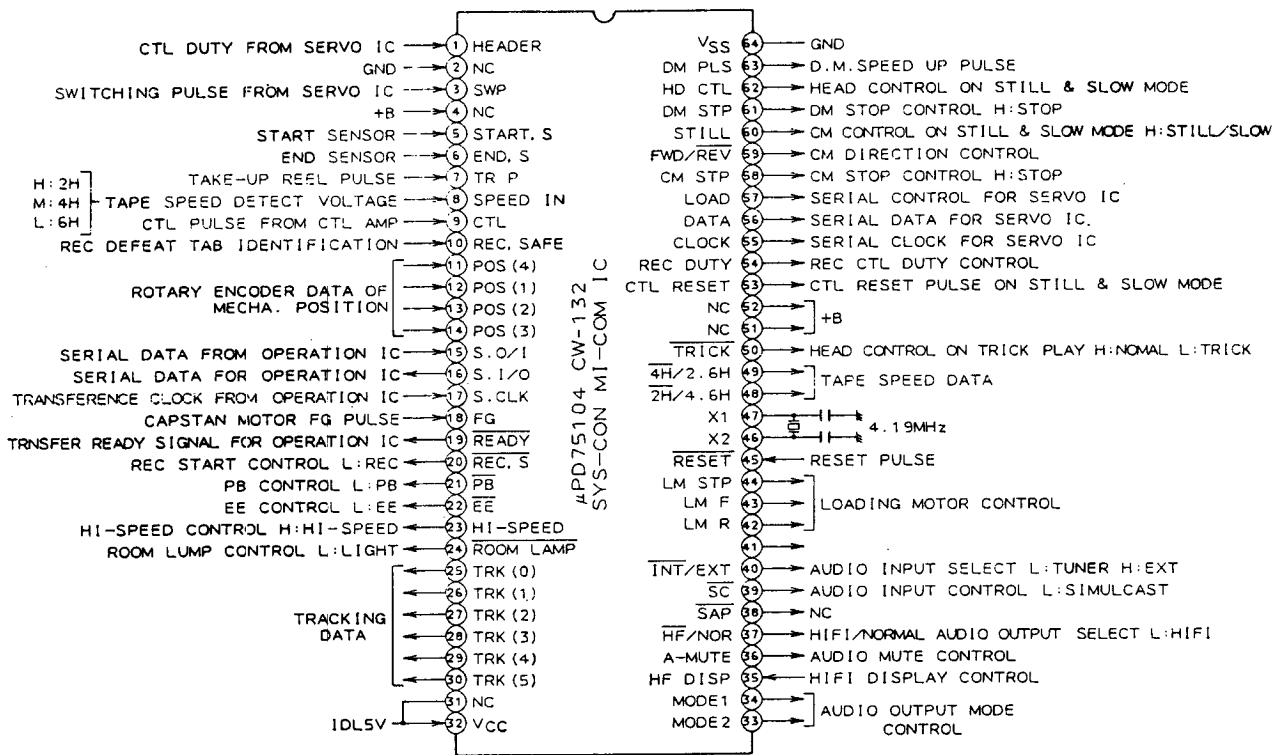
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TC4528BF (DUAL MONO-MULTI)

TRUTH TABLE

INPUT			OUTPUT		NOTE
A	B	CD	Q	\bar{Q}	
	H	H			OUTPUT PULSE
	L	H	L	H	INHIBIT
H		H	L	H	INHIBIT
L		H			OUTPUT PULSE
*	*	L	L	H	INHIBIT

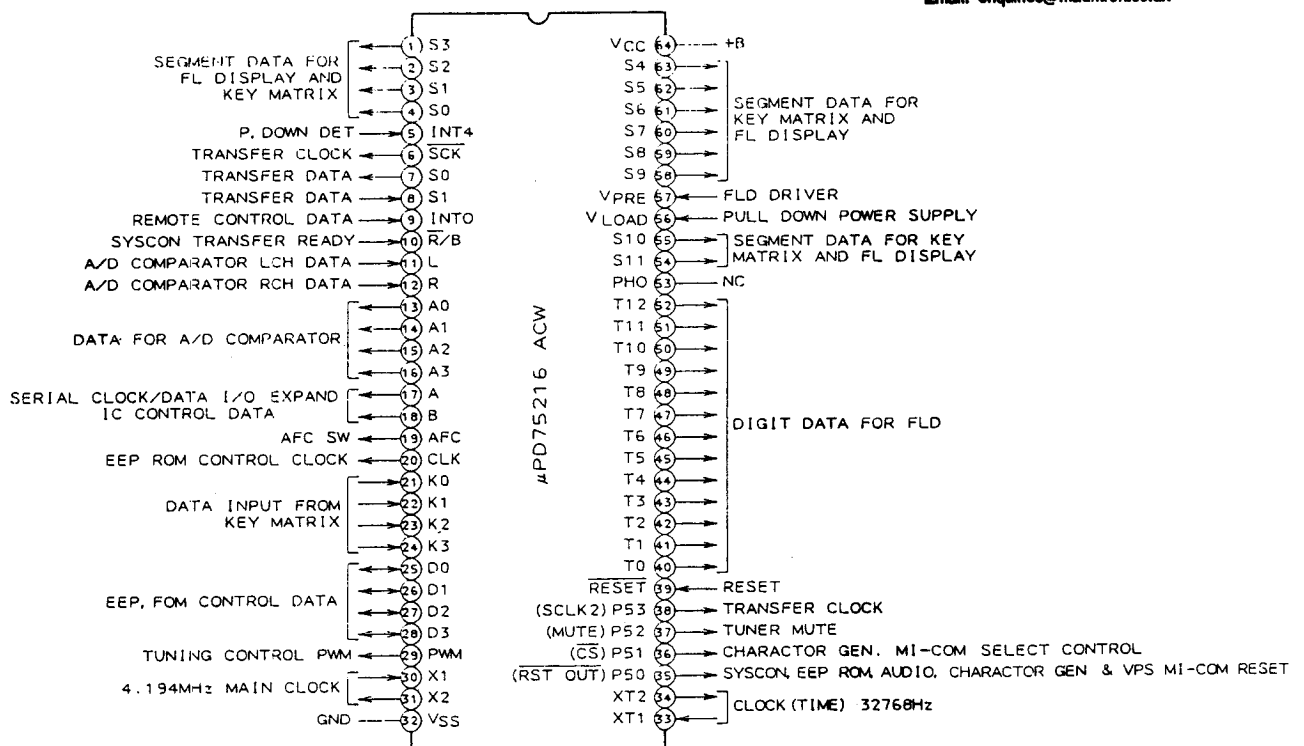
μPD75104CW-132 (SYSTEM CONTROL MI-COM)



AUDIO OUTPUT MODE DATA

MODE-1	MODE-2	MODE
0	0	STEREO
1	1	LEFT
1	0	RIGHT

μPD75216ACW (OPERATION MI-COM)



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