

Electrical Adjustments

+B ADJUSTMENT (RV501)

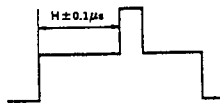
1. Connect the digital multimeter to TP91.
2. Adjust RV501 to obtain $135 \pm 0.2V$.

ST-BY +B ADJUSTMENT (RV601)

1. Put the system into \odot standby mode (remote commander).
2. Connect the digital multimeter to TP91.
3. Adjust RV601 to obtain $135 \pm 3V$.
4. Take the system out of \odot standby mode (remote commander).

H.PHASE ADJUSTMENT (RV502)

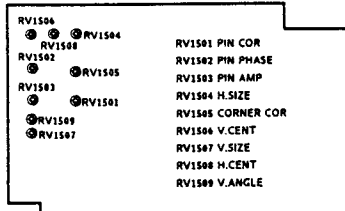
1. Input a PAL color bar signal.
2. Set the picture and brightness controls to their normal levels.
3. Set RV1508 (H.CENT) to its mechanical center.
4. Connect the oscilloscope to pin ① (SCP) of IC 501.
5. Rotate RV502 to adjust to $H \pm 0.1\mu s$.



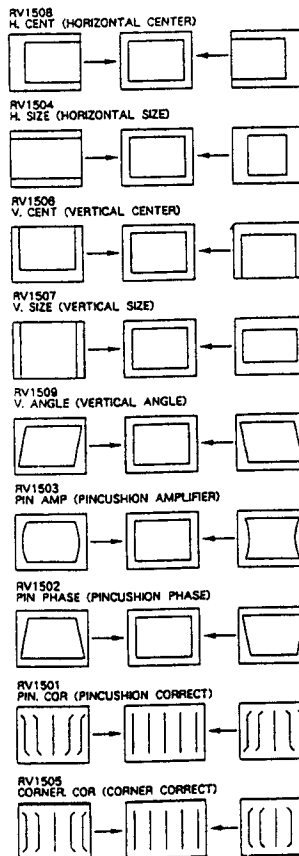
Standard of H. PHASE

Model Size	H
21"	$5.0\mu s$
25"	$5.1\mu s$

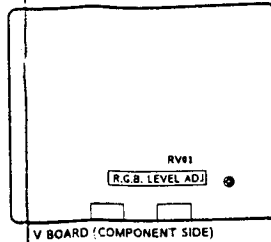
5. J1 BOARD ADJUSTMENTS



J1 BOARD (COMPONENT SIDE)



V BOARD ADJUSTMENTS



RGB LEVEL ADJUSTMENT (RV01)

1. Maximize the picture setting.
2. Adjust RV01 so that the RGB output is $0.75V$.

7. SECONDARY ADJUSTMENTS

SUB BRIGHTNESS ADJUSTMENT

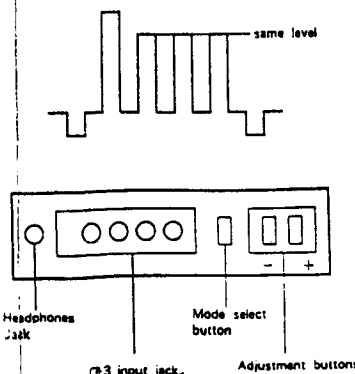
1. Set the system to receive a test pattern.
2. Press $\rightarrow \leftarrow$ on the remote commander to put the system into normal mode.
3. Switch off the power.
4. While depressing the adjusting buttons + and - simultaneously, turn on the power. (SUB mode is obtained)
5. Minimize the \odot contrast setting.
6. Adjust the \odot brightness control so that the gray scale 0 IRE section is cut off completely and the 27 IRE section is barely glowing.
7. Depress the \diamond (store) button of the remote commander. (SUB mode is released)

If there is no test color pattern

1. Set the system to receive a color pattern.
2. Press $\rightarrow \leftarrow$ on the remote commander to put the system into normal mode.
3. Set the \odot color to its normal state.
- 3-5. Steps are the same as above.
6. Since 20 IRE is nearly blue, adjust the \odot brightness control so that the blue barely glows.
7. Same as step 7 above.
8. Press $\rightarrow \leftarrow$ on the remote commander to put the system into normal mode.

SUB COLOR ADJUSTMENT

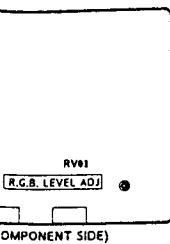
1. Set the system to receive color bars.
2. Press $\rightarrow \leftarrow$ on the remote commander to put the system into normal mode.
3. Cut off the power.
4. While depressing the adjustment buttons + and - simultaneously, turn on the power. (SUB mode is obtained).
5. Adjust the color control so that the B out waveform (pin ⑤ of C board connector CNC72) is as shown in the figure below.
6. Depress the \diamond (store) button of the remote commander. (SUB mode is released)



Transistors

REF. NO.	PART NO.	DESCRIPTION
Q1	8-729-900-51	TRANSISTOR DTC144EX
Q2	8-729-920-92	TRANSISTOR 2SD2096-EF
Q3	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q4	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q5	8-729-807-87	TRANSISTOR 2SA1295-UL6
Q6	8-729-807-87	TRANSISTOR 2SA1295-UL6
Q7	8-729-807-87	TRANSISTOR 2SA1295-UL6
Q8	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q001	8-729-901-01	TRANSISTOR DTC144EX
Q002	8-729-901-01	TRANSISTOR DTC144EX
Q003	8-729-216-22	TRANSISTOR 2SA1162-G
Q004	8-729-216-22	TRANSISTOR 2SA1162-G
Q005	8-729-901-01	TRANSISTOR DTC144EX
Q006	8-729-901-01	TRANSISTOR DTC144EX
Q007	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q008	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q009	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q010	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q113	8-729-230-49	TRANSISTOR 2SC2712-YG
Q114	8-729-230-49	TRANSISTOR 2SC2712-YG
Q115	8-729-230-49	TRANSISTOR 2SC2712-YG
Q116	8-729-230-49	TRANSISTOR 2SC2712-YG
Q125	8-729-900-89	TRANSISTOR DTC144FS
Q126	8-729-901-06	TRANSISTOR DTA144EX
Q181	8-729-230-49	TRANSISTOR 2SC2712-YG
Q182	8-729-901-01	TRANSISTOR DTC144EX
Q201	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q202	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q251	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q261	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q271	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q301	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q302	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q303	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q304	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q305	8-729-901-06	TRANSISTOR DTA144EX
Q306	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q307	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q308	8-729-901-00	TRANSISTOR DTC124EX
Q310	8-729-901-00	TRANSISTOR DTC124EX
Q311	8-729-901-00	TRANSISTOR DTC124EX
Q320	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q321	8-729-216-22	TRANSISTOR 2SA1162-G
Q322	8-729-216-22	TRANSISTOR 2SA1162-G
Q323	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q324	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q327	8-729-216-22	TRANSISTOR 2SA1162-G
Q328	8-729-216-22	TRANSISTOR 2SA1162-G
Q329	8-729-216-22	TRANSISTOR 2SA1162-G
Q330	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q331	8-729-216-22	TRANSISTOR 2SA1162-G
Q332	8-729-216-22	TRANSISTOR 2SA1162-G
Q333	8-729-901-00	TRANSISTOR DTC124EX
Q334	8-729-901-00	TRANSISTOR DTC124EX
Q335	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q336	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q337	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q338	8-729-216-22	TRANSISTOR 2SA1162-G
Q339	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q340	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q341	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q342	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q343	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q344	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q345	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q346	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q347	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q348	8-729-901-00	TRANSISTOR DTC124EX
Q350	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q352	8-729-216-22	TRANSISTOR 2SA1162-G
Q353	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q354	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q355	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q356	8-729-216-22	TRANSISTOR 2SA1162-G
Q357	8-729-216-22	TRANSISTOR 2SA1162-G
Q358	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q359	8-729-216-22	TRANSISTOR 2SA1162-G
Q360	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q361	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q362	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q363	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q364	8-729-216-22	TRANSISTOR 2SA1162-G
Q365	8-729-216-22	TRANSISTOR 2SA1162-G
Q366	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q367	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q368	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q369	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q370	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q371	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q372	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q373	8-729-901-00	TRANSISTOR DTC124EX
Q502	8-729-216-22	TRANSISTOR 2SA1162-G
Q505	8-729-140-96	TRANSISTOR 2SD774-34
Q506	8-729-140-97	TRANSISTOR 2SB734-34
Q507	8-729-216-22	TRANSISTOR 2SA1162-G
Q508	8-729-216-22	TRANSISTOR 2SA1162-G
Q601	8-729-122-03	TRANSISTOR 2SA1220A-P
Q602	8-729-309-02	TRANSISTOR 2SD1548-LB
Q603	8-729-122-03	TRANSISTOR 2SA1220A-P
Q604	8-729-216-22	TRANSISTOR 2SA1162-G
Q605	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q606	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q607	8-729-920-92	TRANSISTOR 2SD2096-EF
Q608	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q609	8-729-320-62	TRANSISTOR 2SD787-34
Q702	8-729-114-78	TRANSISTOR 2SC2785-HFE
Q703	8-729-906-70	TRANSISTOR 8P871
Q704	8-729-200-17	TRANSISTOR 8P871
Q705	8-729-114-78	TRANSISTOR 2SC2785-HFE
Q706	8-729-906-70	TRANSISTOR 8P871
Q707	8-729-200-17	TRANSISTOR 8P871
Q708	8-729-114-78	TRANSISTOR 2SC2785-HFE
Q709	8-729-906-70	TRANSISTOR 8P871
Q710	8-729-200-17	TRANSISTOR 8P871
Q801	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q804	8-729-904-90	TRANSISTOR 2SD1941-06
Q805	8-729-119-80	TRANSISTOR 2SC268-LK
Q1101	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q1102	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q1103	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q1105	8-729-177-32	TRANSISTOR 2SD773-3
Q1106	8-729-901-01	TRANSISTOR DTC144EX
Q1107	8-729-901-01	TRANSISTOR DTC144EX
Q1108	8-729-901-01	TRANSISTOR DTC144EX
Q1109	8-729-901-01	TRANSISTOR DTC144EX
Q1110	8-729-901-01	TRANSISTOR DTC144EX
Q1301	8-729-901-00	TRANSISTOR DTC124EX
Q1302	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q1303	8-729-901-00	TRANSISTOR DTC124EX
Q1401	8-729-216-22	TRANSISTOR 2SA1162-G
Q1402	8-729-120-28	TRANSISTOR 2SC1623-L5L6

D ADJUSTMENTS



ADJUSTMENT (RV01)

01 so that the RGB output is 0.75V.

ARY ADJUSTMENTS

LESS ADJUSTMENT

tem to receive a test pattern.
 — on the remote commander to put into normal mode.
 the power.
 pressing the adjusting buttons + and —, turn on the power. (SUB-contrast setting).
 ⚙ brightness control so that the 0 IRE section is cut off completely. (IRE section is barely glowing).
 ⬇ (store) button of the remote commander.
 (is released)

is released)


to test color pattern

tem to receive a color pattern.

on the remote commander to put into normal mode.

color to its normal state.

the same as above.

URE is nearly blue, adjust the  control so that the blue barely glows.

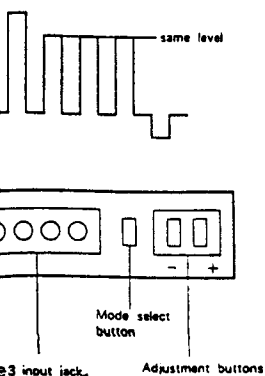
p 7 above.

on the remote commander to put into normal mode.

ADJUSTMENT

ADJUSTMENT

— on the remote commander to put into normal mode.
power.
pressing the adjustment buttons + and —, turn on the power. (SUB mode is released).
the color control so that the B output pin ⑤ of C board connector CNC72) is in the figure below.
the \diamond (store) button of the remote commander. (SUB mode is released)



April 1991

AE-1C Chassis *KVA2220*
 CRT A51JXH60X KV-A2112U
 CRT A59JWC60X KV-A2512U

ICs Electrical Parts List

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
IC1	8-759-513-27	IC M8R44C(P-W20R	IC1311	8-759-996-49	IC M84096APP
IC2	8-759-510-46	IC SAA5245P-5C	IC1312	8-752-338-45	IC CXK1202Q
IC3	8-759-510-49	IC PC8B1CG65-70			
IC1001	8-759-515-80	IC SDA2005-60A	IC1313	8-752-338-45	IC CXK1202Q
IC1002	8-759-208-06	IC T14548 HP	IC1315	8-752-334-55	IC CXK1175AK
IC1003	8-759-945-54	IC M1455AP	IC1501	8-759-970-73	IC TFA2012R
IC1005	8-759-748-56	IC SDA2546	IC1502	8-759-944-57	IC TDA8170
IC1009	8-759-979-62	IC PCF8574			
IC1015	8-759-003-90	IC TBA129	IC1601	8-759-988-95	IC TEA2260
IC1021	8-759-013-17	IC TDA6220	IC1604	8-759-510-52	IC TEA7605
IC1251	8-759-988-74	IC TDA205	IC1608	8-759-037-21	IC TFA7812LT
	4-112-134-60	RIVET NYLON, 3.5; IC251	IC1101	8-759-511-88	IC TDA8732
IC261	8-759-988-74	IC TDA2050	IC1102	8-759-511-89	SC SAA732
	4-112-134-60	RIVET NYLON, 3.5; IC261	IC1103	8-759-900-02	IC SW74LS02N
IC301	8-759-503-41	IC TDA4580-V6	IC1104	8-759-900-72	IC N55532P
IC302	8-759-980-60	IC TDA8428K3	IC1105	8-759-900-72	IC N55532P
IC303	8-759-510-48	IC TDA4667			
IC304	8-759-510-47	IC TDA5107	IC1106	8-759-040-53	IC MC140538CP
IC305	8-759-144-34	IC UPC24M50HP	IC1107	8-759-504-22	IC TDA1543
			IC1108	8-752-053-17	IC CXA1114P
IC306	8-759-510-50	IC MCF40528M	IC1109	8-759-946-32	IC TEA2014A
IC310	8-752-006-12	IC CXD20061	IC1103	8-759-040-53	IC MC140538CP
IC315	8-752-337-07	IC CXD2011Q	IC1501	8-759-942-16	IC TEA2031A
			IC1651	8-741-101-75	IC S8X160110-I

Recommended Safety Parts

ITEM	PART NO.	DESCRIPTION
C601	1-161-964-61	CERAMIC 0.0047MF 250V
C602	1-161-964-61	CERAMIC 0.0047MF 250V
C603	1-161-964-61	CERAMIC 0.0047MF 250V
C604	1-125-318-11	ELECT(BLOCK) 220MF 20% 400V
C814	1-161-731-51	CERAMIC 0.001MF 10% 2KV
C817	1-136-549-11	FILM 0.0106MF 3% 1.4KV (KV-A2112U ONLY)
C817	1-136-565-11	FILM 0.015MF 3% 1.4KY (KV-A2512U ONLY)
C818	1-129-721-51	FILM 0.039MF 10% 630V
C819	1-161-731-51	CERAMIC 0.001MF 10% 2KV
C821	1-162-116-51	CERAMIC 680PF 10% 2KV
C1602	1-136-516-11	FILM 0.1MF 20% 300V
C1605	1-164-246-51	CERAMIC 0.0022MF 20% 400V
C1607	1-161-964-61	CERAMIC 0.0047MF 250V
F1601	1-532-504-31	FUSE, 4A/250V
L810	1-459-390-11	COIL (WITH CORE) (KV-A2112U ONLY)
	1-421-982-12	PMC (KV-A2512U ONLY)
LF1601	1-421-862-11	LFT
PSI	1-532-679-91	LINK IC (ICP-N15) 0.6A
PS301	1-532-91	LINK, IC (ICP-N10) 0.4A
PS601	1-532-984-91	LINK, IC (ICP-N50) 2A
PS602	1-532-984-91	LINK, IC (ICP-N50) 2A
PS603	1-532-679-91	LINK, IC (ICP-N15) 0.6A
PS604	1-532-984-91	LINK, IC (ICP-N50) 2A
R1602	1-244-945-91	CARBON 1M 5% 1/2W
R1603	1-217-328-11	WIREWOUND 2.7 10% 7W F
R1605	1-218-265-91	GLAZE 8.2M 5% 1W
S1701	1-571-433-11	SWITCH, PUSH (AC POWER)
T601	1-450-038-11	S.R.T
T602	1-424-277-11	TRANS., TRIGGER PULSE
T801	1-437-090-21	HDT
T802	1-439-416-51	TRANS. ASSY. FLYBACK (UX-1650)
TU101	1-465-515-11	TUNER

AUDIO CONTROL
AV INPUT, V/C INPUT.
SCART VIDEO OUT.
EAST-WEST CORRECTION.

J1

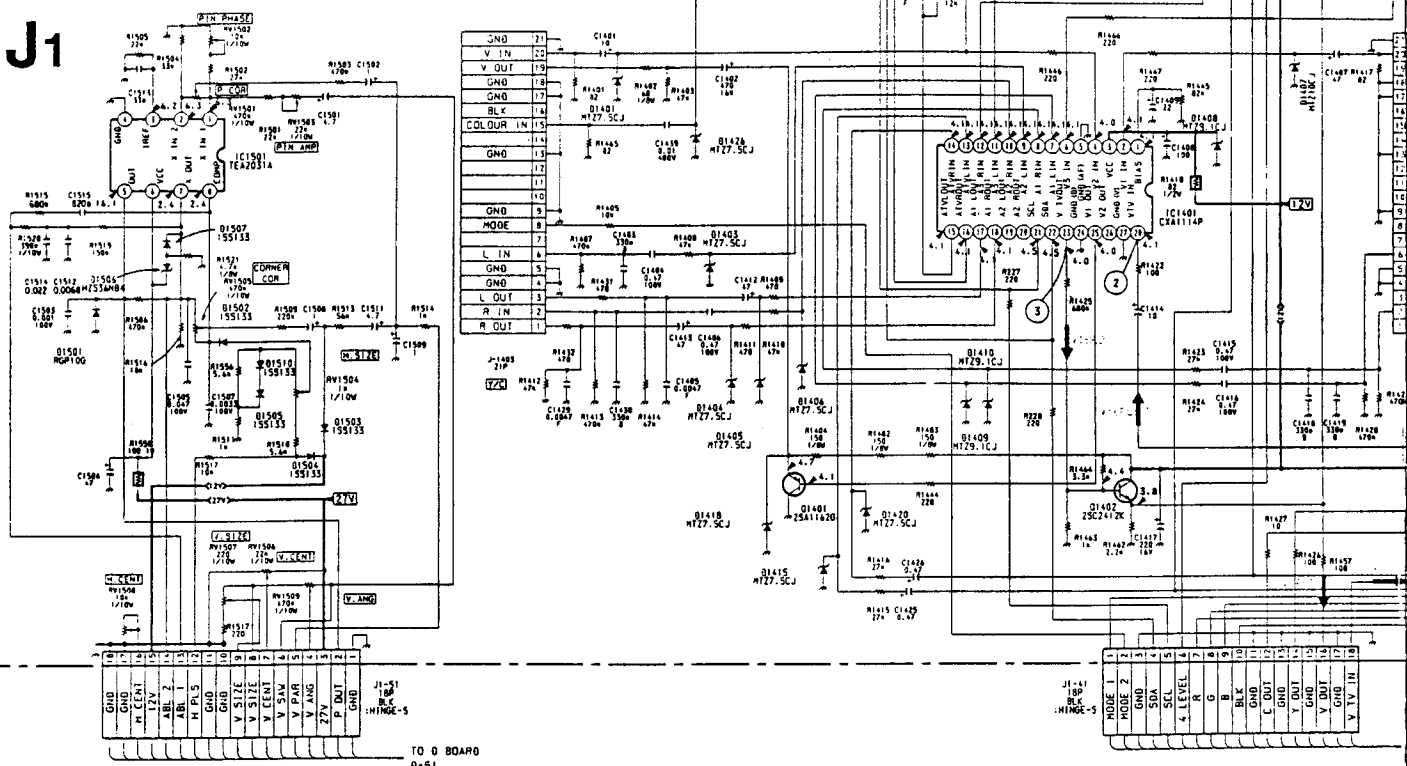


Figure 10 consists of three sub-diagrams labeled ①, ②, and ③, each showing a gear profile with a shaded mesh area. Below each diagram is a label indicating the gear ratio and the number of teeth (Z) and teeth in mesh (Zm).

- ① 1.4Vp-a (H) Z=10 Zm=5
- ② 1.4Vp-a (H) Z=10 Zm=5
- ③ 2.6Vp-a (H) Z=10 Zm=5

H₂ (STIRS, RECEIVER, INDICATOR)

01A51 LD-201VR

01A52 LD-201VR

5V

01A54 LD-201VR

1C1651 SBX1610-11

1566Z 470

LEDB

LEDA

RES-LED

GND

5V

STIRS

H₂-2

WHT

5-MICRO

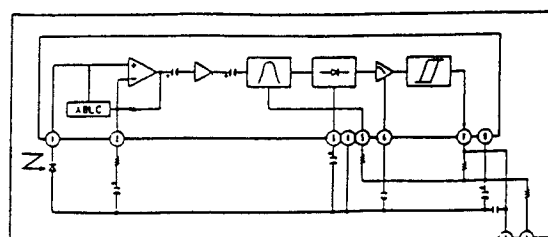
H₂ Board Semiconduct

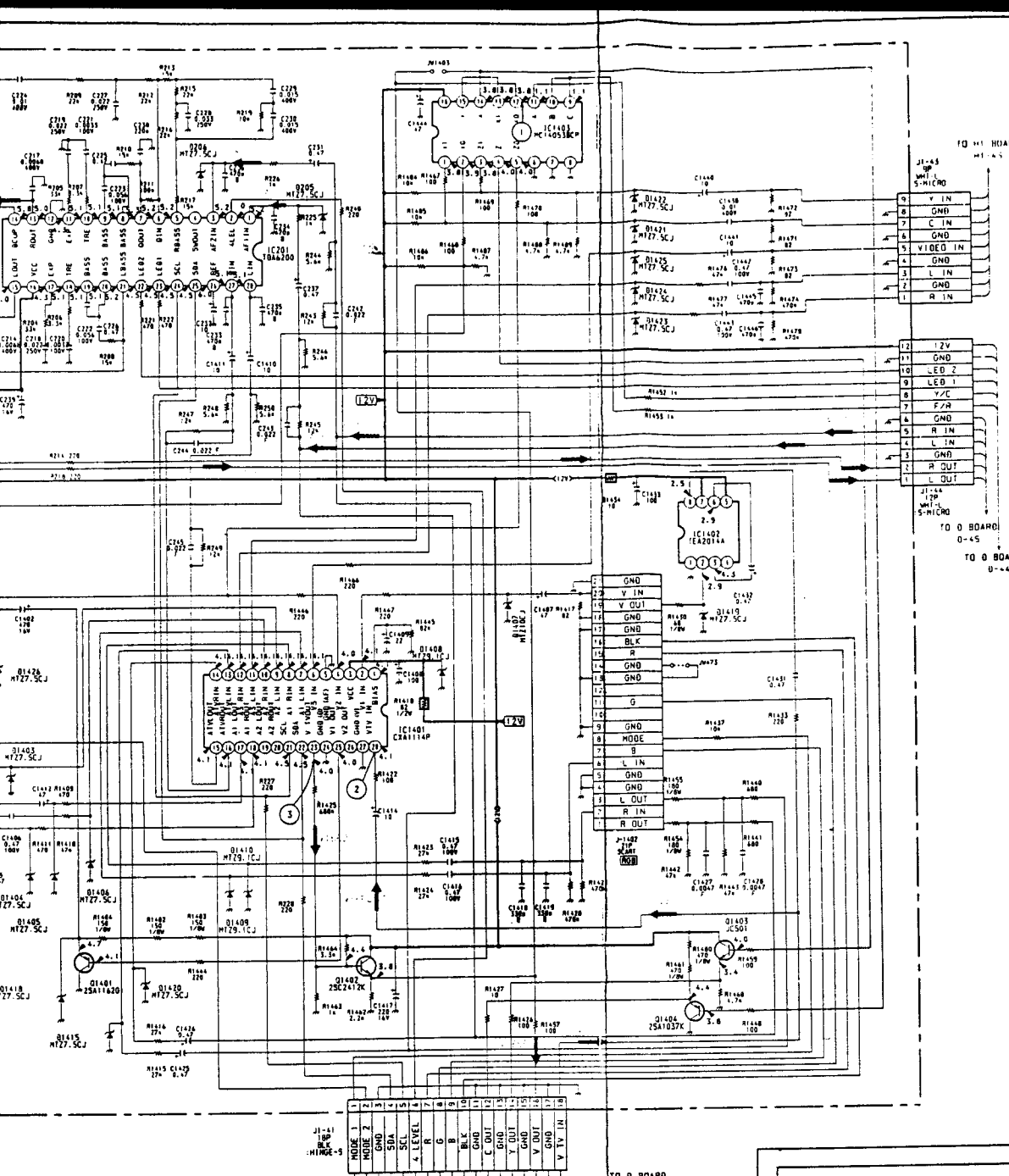
1C1651	SBX1610-11	INFRARE
01A51	LD-201VR	AUDIO C

H2 Board Semiconductor D

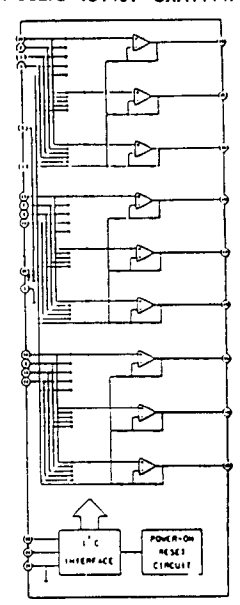
IC1651	SBX1610-11	INFRARED REC.	E
01651	L0-201VR	AUDIO CHANNEL	A
01652	L0-201VR	AUDIO CHANNEL	B
01654	L0-201VR	RESET	

H2 Board IC1651 SBX1610-11

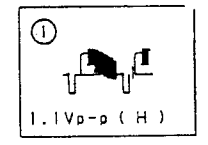




J1 Board IC1401 CXA1114P



A Board Waveforms

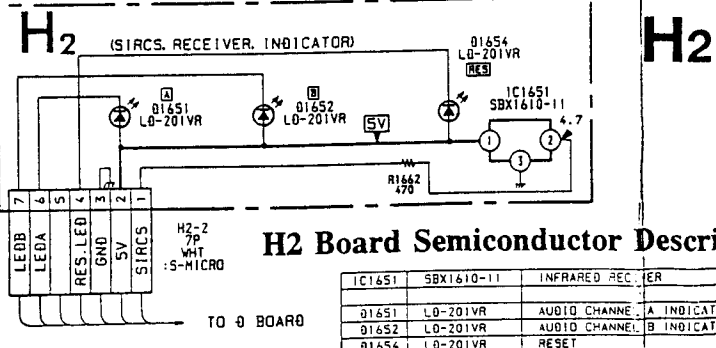


A Board Semiconductor Descri

IC103	PCF8574	EXPANDER
IC105	TBA129	FM SIF
Q113	2SC2412K	AUDIO AN
Q114	2SC2412K	AUDIO AN
Q115	2SC2412K	AUDIO AN
Q116	2SC2412K	AUDIO AN
Q125	DT0144ES	MUTE SW
Q126	DT0144ES	MUTE SW
Q181	2SC2412K	NICAM BL
Q182	DTS144EK	MUTE SW

VIF, SIF and Tun

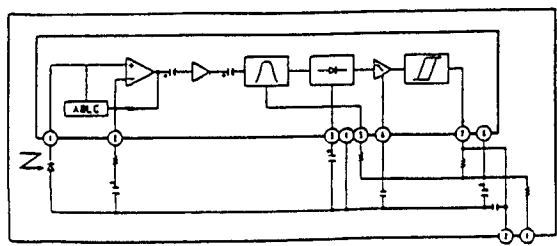
SIRCS, Receiver and Indicator Diagram



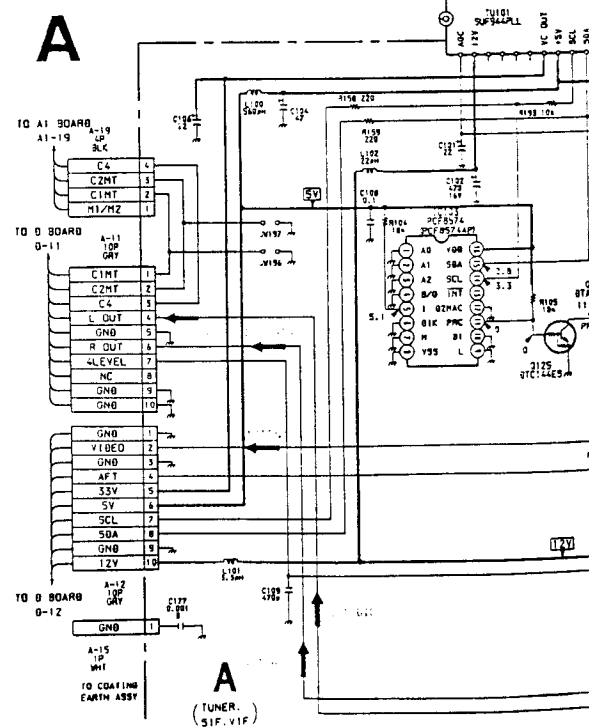
H2 Board Semiconductor Description

IC1651	SBX1610-11	INFRARED REC	ER
Q1651	LD-201VR	AUDIO CHANNEL A	INDICATOR
Q1652	LD-201VR	AUDIO CHANNEL B	INDICATOR
Q1654	LD-201VR	RESET	

H2 Board IC1651 SBX1610-11



A

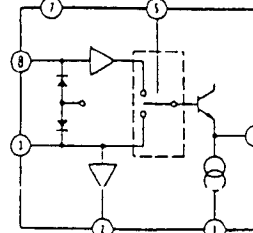
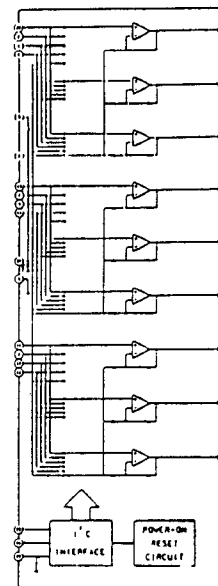


A

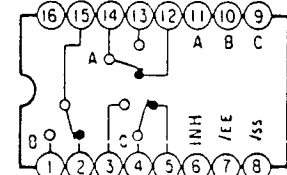
J1 Board Semiconductor Description

J1 Board IC1401 CXA1114P

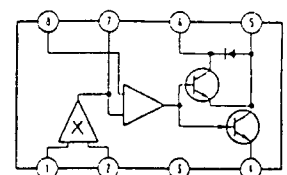
J1 Board IC402 TEA2014A



J1 Board IC1403 MC14053BCP

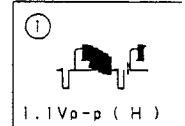


J1 Board IC1501 TEA2031A



IC201	70A6250	AUDIO CONTROL
IC1401	CXA1114P	AV SW
IC1402	TEA2014A	SCART VIDEO OUT
IC1403	MC14053BCP	COMPOSITE Y/C SW
IC1501	TEA2031A	EAST WEST CORRECTION
Q201	25C2412K	AUDIO R BUFF
Q202	25C2412K	AUDIO L BUFF
Q1401	25A1162Q	VIDEO OUT
Q1402	25C2412K	VIDEO OUT BUFF
Q1403	LC501	Y OUT BUFF
Q1404	25A1037K	C OUT BUFF
D201	MTZ91CJ	PROTECT
D202	MTZ91CJ	PROTECT
D205	MTZ75CJ	PROTECT
D206	MTZ75CJ	PROTECT
D1401	MTZ75CJ	PROTECT
D1403	MTZ75CJ	PROTECT
D1404	MTZ75CJ	PROTECT
D1405	MTZ75CJ	PROTECT
D1406	MTZ75CJ	PROTECT
D1407	MTZ10CJ	PROTECT
D1408	MTZ91CJ	REG
D1409	MTZ91CJ	PROTECT
D1410	MTZ91CJ	PROTECT
D1415	MTZ75CJ	PROTECT
D1418	MTZ75CJ	PROTECT
D1419	MTZ75CJ	PROTECT
D1420	MTZ75CJ	PROTECT
D1421	MTZ75CJ	PROTECT
D1422	MTZ75CJ	PROTECT
D1423	MTZ75CJ	PROTECT
D1424	MTZ75CJ	PROTECT
D1425	MTZ75CJ	PROTECT
D1426	MTZ75CJ	PROTECT
D1501	RGP10G	PROTECT
D1502	ISS133	DE COUPLING + SIZE
D1503	ISS133	CLIPPING + PARABOLA
D1504	ISS133	CLIPPING + PULSE
D1505	ISS133	REG
D1506	HZ35N84	PROTECT
D1507	ISS133	PROTECT
D1510	ISS133	REG

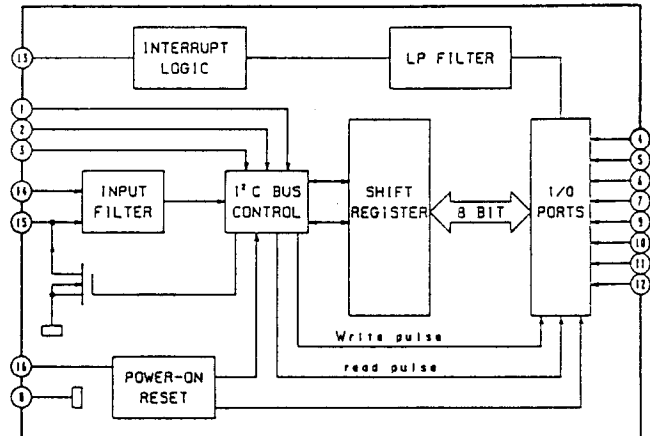
A Board Waveforms



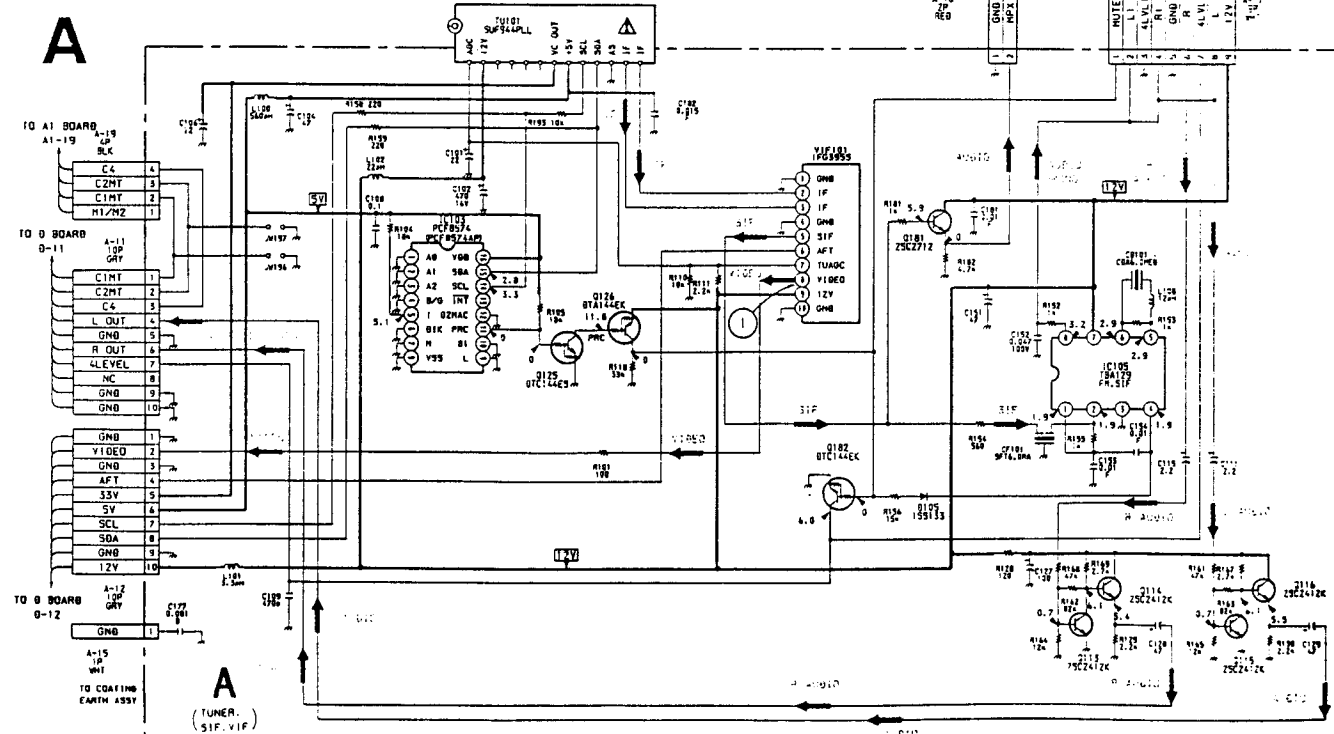
A Board Semiconductor Description

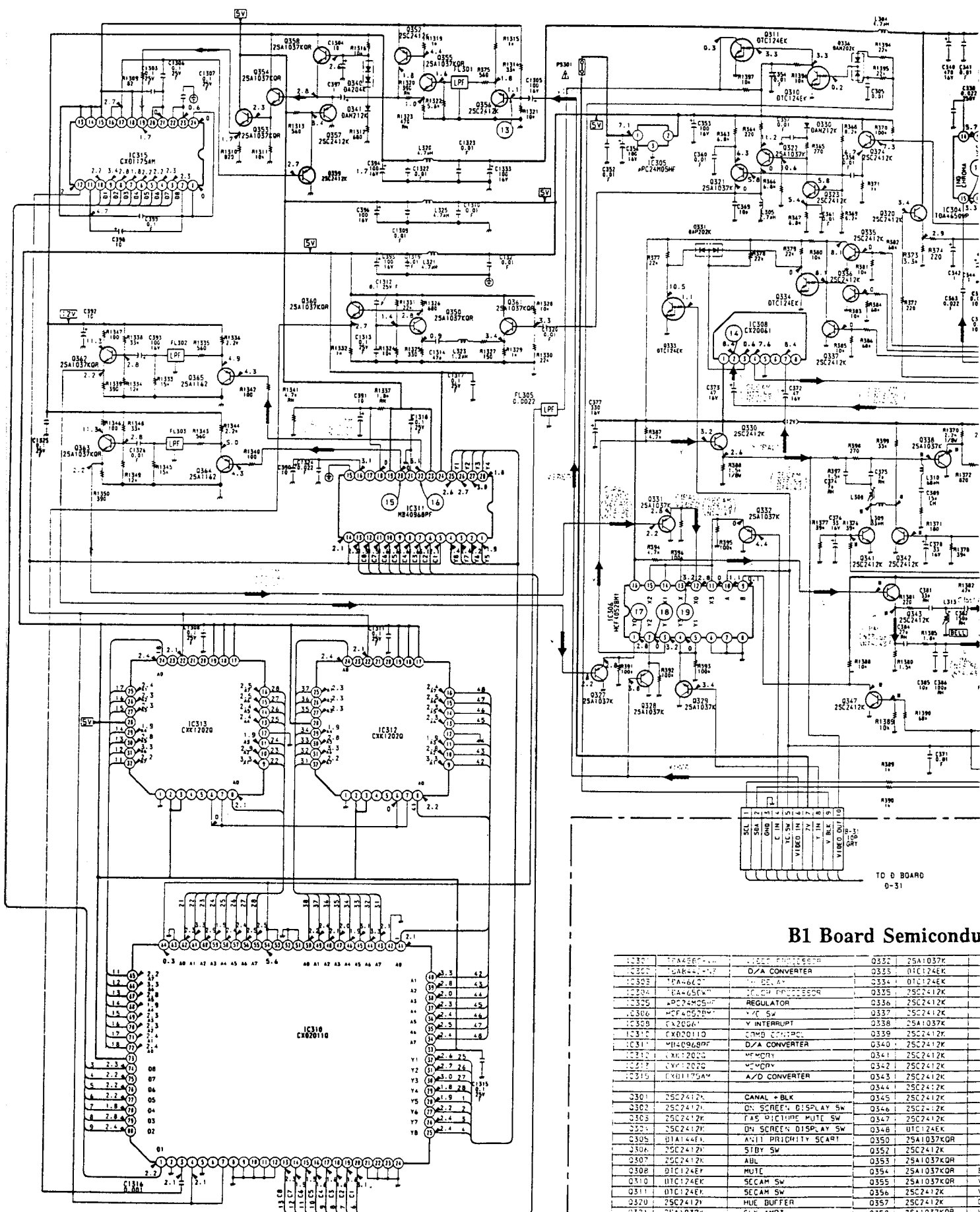
IC103	PCF8574	EXPANDER
IC105	TBA129	FM SIF
Q113	25C2412K	AUDIO AMP
Q114	25C2412K	AUDIO AMP
Q115	25C2412K	AUDIO AMP
Q116	25C2412K	AUDIO AMP
Q125	DTC144ES	MUTE SW
Q126	DTC144ES	MUTE SW
Q181	25C2412K	NCAM BUFFER
Q182	DTS144EX	MUTE SW

A Board IC103 PCF8574



VIF, SIF and Tuner Diagram





B1 Board Semicondu

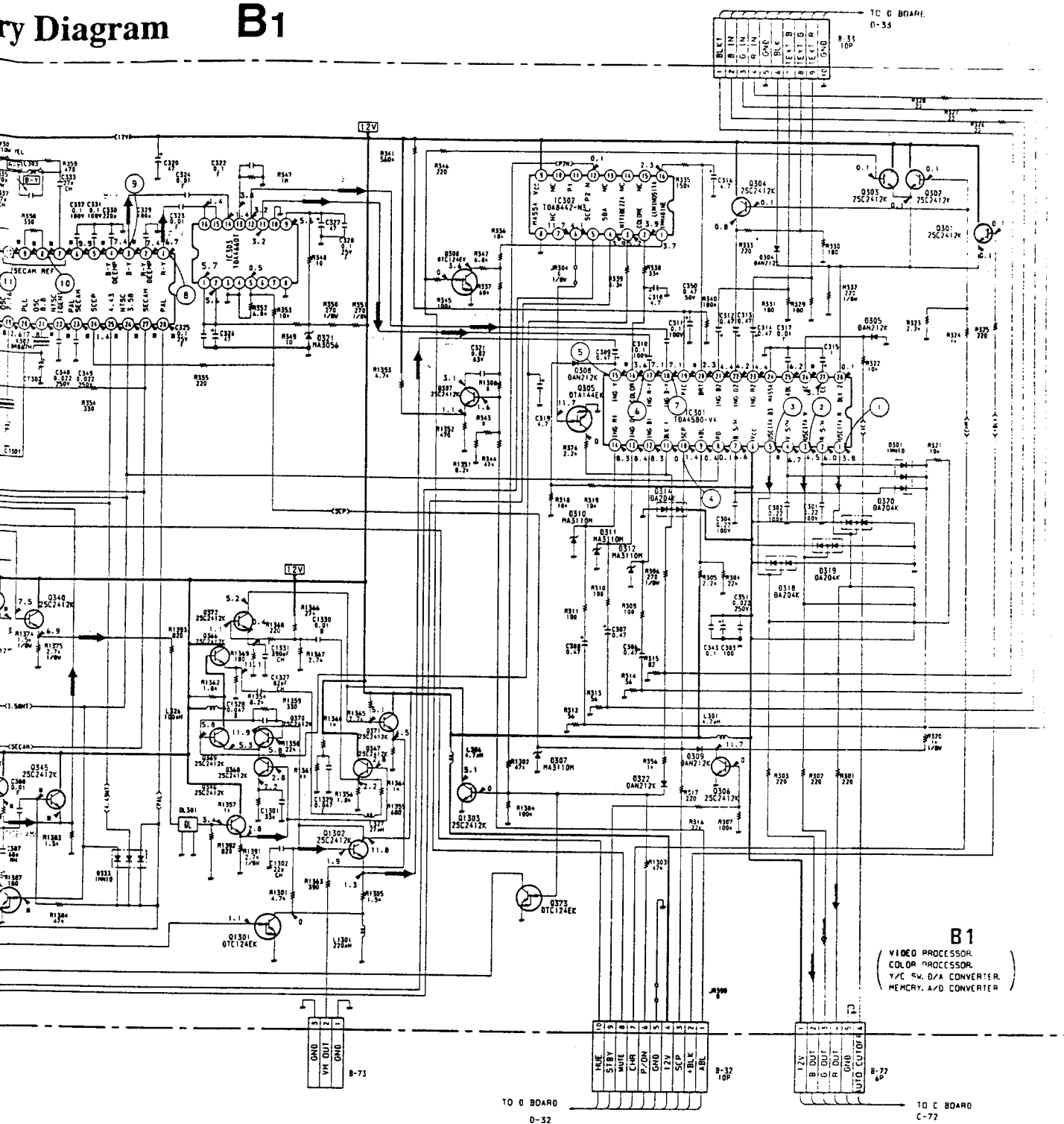
0301	1PA456P	VIDEO PROCESSOR	0332	25A1037K
0302	1PA461P	D/A CONVERTER	0335	01C124EK
0303	1PA462P	VIDEO DELAY	0334	01C124EK
0304	1PA465P	VIDEO PROCESSOR	0335	25C2412K
0305	1PC74M05P	REGULATOR	0336	25C2412K
0306	1CF4052P	V/C SW	0337	25C2412K
0309	1XC206P	V INTERRUPT	0338	25A1037K
0310	1XC2011D	CMDB CONTROL	0339	25C2412K
0311	1M1096BPP	D/A CONVERTER	0340	25C2412K
0312	1XK1202P	MEMORY	0341	25C2412K
0313	1XV1202P	MEMORY	0342	25C2412K
0315	1XU1175AM	A/D CONVERTER	0343	25C2412K
			0344	25C2412K
0301	25C2412K	CANAL + BLK	0345	25C2412K
0302	25C2412K	ON SCREEN DISPLAY SW	0346	25C2412K
0303	25C2412K	ON SCREEN MUTE SW	0347	25C2412K
0304	25C2412K	ON SCREEN DISPLAY SW	0348	01C124EK
0305	01A144F	A/C11 PRIORITY SCART	0350	25A1037KGR
0306	25C2412K	STBY SW	0352	25C2412K
0307	25C2412K	ABL	0353	25A1037KGR
0308	01C124EK	MUTE	0354	25A1037KGR
0310	01C124EK	SECAM SW	0355	25A1037KGR
0311	01C124EK	SECAM SW	0356	25C2412K
0320	25C2412K	MUE BUFFER	0357	25C2412K
0321	25A1037K	CLK AMP2	0358	25A1037KGR
0322	25A1037K	CLK AMP2	0359	25C2412K
0323	25C2412K	CLK AMP1	0360	25A1037KGR
0324	25C2412K	CLK BUFFER	0361	25A1037KGR
0327	25A1037K	V GUN1	0362	25A1037KGR
0328	25A1037K	VIDEO IN	0363	25A1037KGR
0329	25A1037K	V IN	0364	25A1162
0330	25C2412K	VIDEO BUFFER	0365	25A1162
0331	25A1037K	F OUT	0366	25C2412K



10301	104A5B7544	VIDEO BUFFER	0332	25A1037K	C IN	0367	25C2412K	Y BUFFER
10302	104A44747F	D/A CONVERTER	0333	01C124EK	Y/C SW	0368	25C2412K	SHR AMP
10303	104A6627	DI. DISPLAY	0334	01C124EK	Y SW	0369	25C2412K	SHR AMP
10304	104A65C67	DI. SW PROCESSOR	0335	25C2412K	SECAM SW	0370	25C2412K	SHR AMP
10305	104C4M05HF	REGULATOR	0336	25C2412K	NTSC (5.59) SW	0371	25C2412K	VM BUFFER
10306	104C4M05HF	Y/C SW	0337	25C2412K	NTSC (4.43) SW	0372	25C2412K	VM AMP
10308	104206A1	Y INTERRUPT	0338	25A1037K	Y BUFFER	0373	01C124EK	SYSTEM SW
10310	104020119	CRMB CONTROL	0339	25C2412K	Y BUFFER	03101	01C124EK	Y BUFFER
10311	1040968BF	D/A CONVERTER	0340	25C2412K	Y BUFFER	03102	25C2412K	Y BUFFER
10312	104012020	MEMORY	0341	25C2412K	SECAM TRAP SW	03103	25C2412K	VM MUTE
10313	104012020	MEMORY	0342	25C2412K	NTSC TRAP SW			
10315	10401175AM	A/D CONVERTER	0343	25C2412K	C OUT	0301	1M10	ACD AT STBY
			0344	25C2412K	SECAM SW	0304	DAN212K	PROTECT
0301	25C2412K	CANAL +BLK	0345	25C2412K	PAL/SECAM SW	0305	DAN212K	PROTECT
0302	25C2412K	DI. SCREEN DISPLAY SW	0346	25C2412K	Y IN	0307	MA3110M	PROTECT
0303	25C2412K	PAS PICTURE MUTE SW	0347	25C2412K	PAL SW	0308	DAN212K	PROTECT
0304	25C2412K	DI. SCREEN DISPLAY SW	0348	01C124EK	NTSC (5.59) SW	0309	DAN212K	PROTECT
0305	01A1447F	AGI1 PRIORITY SCART	0350	25A1037KOR	CLK AMP	0310	MA3110M	PROTECT
0306	25C2412K	SIFT SW	0352	25C2412K	VIDEO AMP	0311	MA3110M	PROTECT
0307	25C2412K	AUL	0353	25A1037KOR	BUFFER	0312	MA3110M	PROTECT
0308	01C124EK	MUTE	0354	25A1037KOR	BUFFER	0314	04Z04K	PROTECT
0310	01C124EK	SECAM SW	0355	25A1037KOR	VIDEO AMP	0318	04Z04K	PROTECT
0311	01C124EK	SECAM SW	0356	25C2412K	VIDEO BUFFER	0319	04Z04K	PROTECT
0320	25C2412K	MUE BUFFER	0357	25C2412K	CLAMP BIAS	0320	04Z04K	PROTECT
0321	25A1037K	CLK AMP2	0358	25A1037KOR	VIDEO CLAMP	0321	MA3056	REG
0322	25A1037K	CLK AMP2	0359	25C2412K	CLAMP BIAS	0322	DAN212K	PROTECT
0323	25C2412K	CLK AMP1	0360	25A1037KOR	CLK BUFFER	0330	DAN212K	BIAS
0324	25C2412K	CLK BUFFER	0361	25A1037KOR	CLK AMP	0331	04P702V	Y/C SW
0327	25A1037K	Y LUT	0362	25A1037KOR	Y BUFFER	0333	1M10	SYSTEM SW
0328	25A1037K	VIDEO IN	0363	25A1037KOR	C BUFFER	0336	DAN202V	CORRECT SW
0329	25A1037K	Y IN	0364	25A1162	C BUFFER	0340	04Z04K	VIDEO AMP
0330	25C2412K	VIDEO BUFFER	0365	25A1162	Y BUFFER	0341	DAN212K	VIDEO AMP
0331	25A1037K	Y LUT	0366	25C2412K	SHR BUFFER			

IC NO	PIN NO	PAU
IC301	(5)	5.1
	(5)	7.3
	(11)	3.1
	(11)	6.6
	(5)	6.8
IC304	(5)	9.9
	(7)	4.3
	(8)	3.4
	(8)	3.4
	(11)	4.3
	(11)	2.3
	(11)	5.5
	(15)	7.5
	(15)	0
	(15)	0
	(17)	0
	(11)	5.9

For Waveform



B1
(VIDEO PROCESSOR,
COLOR PROCESSOR,
Y/C SW, D/A CONVERTER,
MEMORY, A/D CONVERTER)

Descriptions

Q367	25C2412K	Y BUFFER
Q368	25C2412K	SHP AMP
Q369	25C2412K	SHP AMP
Q370	25C2412K	SHP AMP
Q371	25C2412K	VM BUFFER
Q372	25C2412K	VM AMP
Q373	QTC124EK	SYSTEM SW
Q1301	QTC124EK	Y BUFFER
Q1302	25C2412K	Y BUFFER
Q1303	25C2412K	VM MUTE
Q301	1M10	ACD AT STBY
Q304	DAN212K	PROTECT
Q305	DAN212K	PROTECT
Q307	MA3110M	PROTECT
Q308	DAN212K	PROTECT
Q309	DAN212K	PROTECT
Q310	MA3110M	PROTECT
Q311	MA3110M	PROTECT
Q312	MA3110M	PROTECT
Q314	DA204K	PROTECT
Q318	DA204K	PROTECT
Q319	DA204K	PROTECT
Q320	DA204K	PROTECT
Q321	MA3056	REG
Q322	DAN212K	PROTECT
Q330	DAN212K	BIAS
Q331	DAP202K	Y/C SW
Q333	1M10	SYSTEM SW
Q336	DAN202K	CORRECT SW
Q340	DA204K	VIDEO AMP
Q34	DAN212K	VIDEO AMP

IC Voltage Table

IC-NO	PIN-NO	PAL	SECAM	NTSC 3.38	NTSC 4.43
IC301	(1)	5.1	4.8	4.8	4.8
	(2)	7.3	7.0	7.0	7.0
	(3)	3.1	3.4	3.8	3.4
	(4)	6.6	6.6	6.0	6.3
IC304	(5)	6.8	6.8	6.9	6.8
	(6)	9.9	10.1	9.9	9.9
	(7)	4.3	3.5	4.6	4.6
	(8)	3.4	3.0	3.4	3.4
	(9)	3.4	3.0	3.4	3.4
	(10)	4.3	3.4	4.6	4.6
	(11)	2.3	3.1	3.1	2.3
	(12)	5.6	5.6	5.6	7.4
	(13)	7.5	7.5	5.7	5.7
	(14)	0	1.4	5.9	5.9
	(15)	0	0	0	0
	(16)	0	5.9	0	0
	(17)	5.9	0	0	0

Transistor Voltage Table

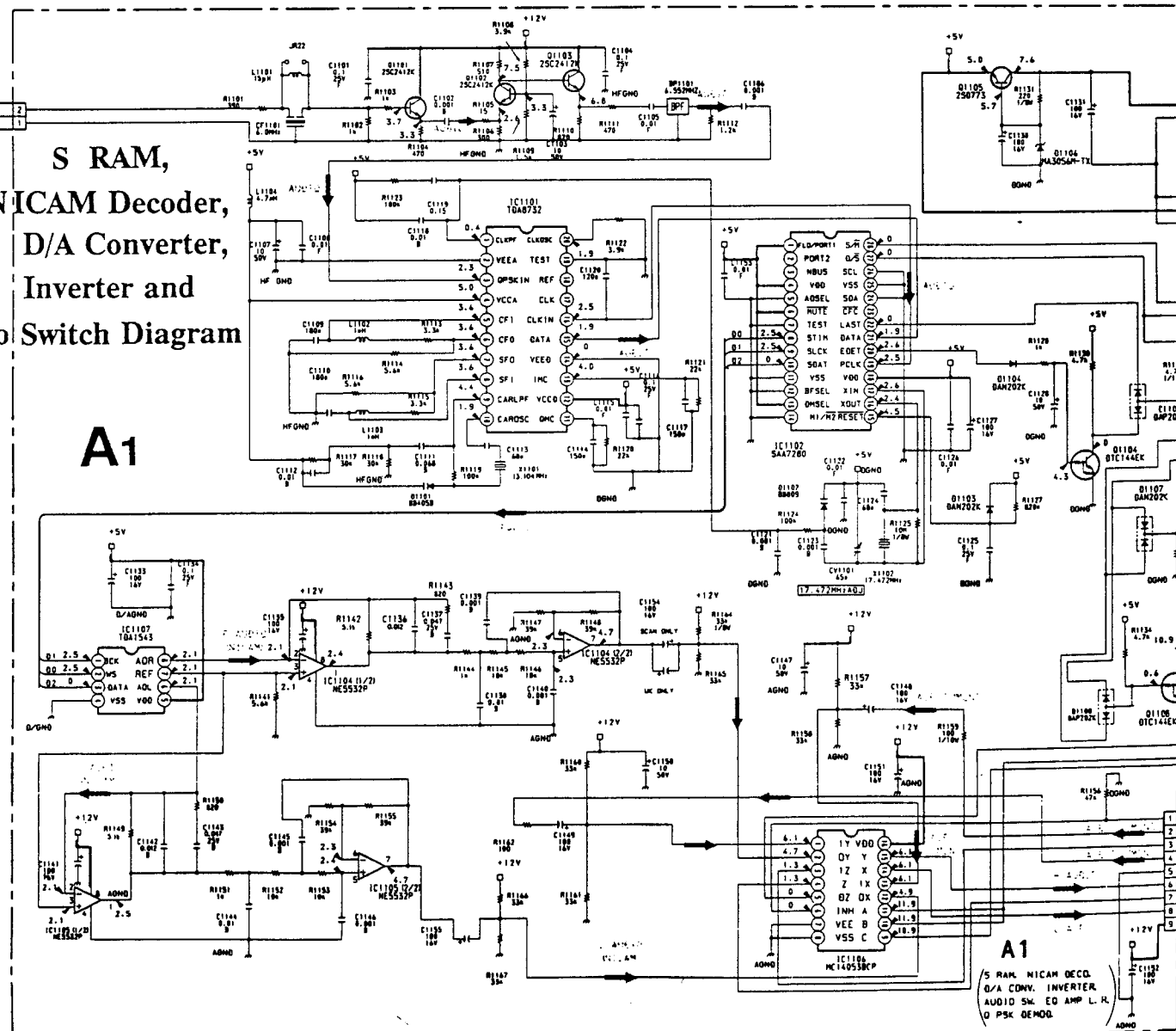
Q-NO	PAL	SECAM	NTSC 3.38	NTSC 4.43
Q338	B 2.6	3.9	3.9	3.9
	E 3.3	4.6	4.6	4.6
Q339	B 3.7	4.6	4.6	4.6
	C 3.6	3.9	3.9	3.9
Q341	U 0	0.6	0.4	0.1
	C 11.8	0	11.6	11.6
Q342	B 0	0	0.4	0
	C 11.7	0	11.7	11.7
Q343	B 3.7	5.3	5.3	5.3
	E 2.6	4.6	4.7	4.7
Q344	B 0	5.4	1.0	0.1
	E 4.0	4.8	1.5	4.5
Q345	B 4.6	0.1	1.9	5.0
	E 4.0	4.4	1.4	4.4
Q347	B 0.6	0	0	0
	C 0.1	11.9	11.9	11.9
Q348	H 0.1	0.1	1.0	0.1
	C 0.4	0.2	0.2	0.4

The diagram illustrates a complex electronic circuit, likely a digital signal processor or a specialized control unit. Key components include:

- IC2 (SAA5746C):** A central processing unit with multiple pins connected to various components.
- IC3 (FCB64C85-70P):** A memory or storage component.
- IC1 (SAD20162-A002):** A digital-to-analog converter (DAC) or similar output stage.
- Power Supply:** A transformer (T1) providing power to the circuit, with a ground plane and various capacitors (C1-C19) for filtering and decoupling.
- Resistors (R1-R27):** Various resistors used for biasing, current limiting, and signal conditioning.
- Capacitors (C1-C19):** Various capacitors used for timing, filtering, and decoupling.
- Diodes (D1-D6):** Various diodes used for signal rectification and protection.

The diagram is labeled with component values and pin numbers, and includes a 'Text Diagram' label.

A1



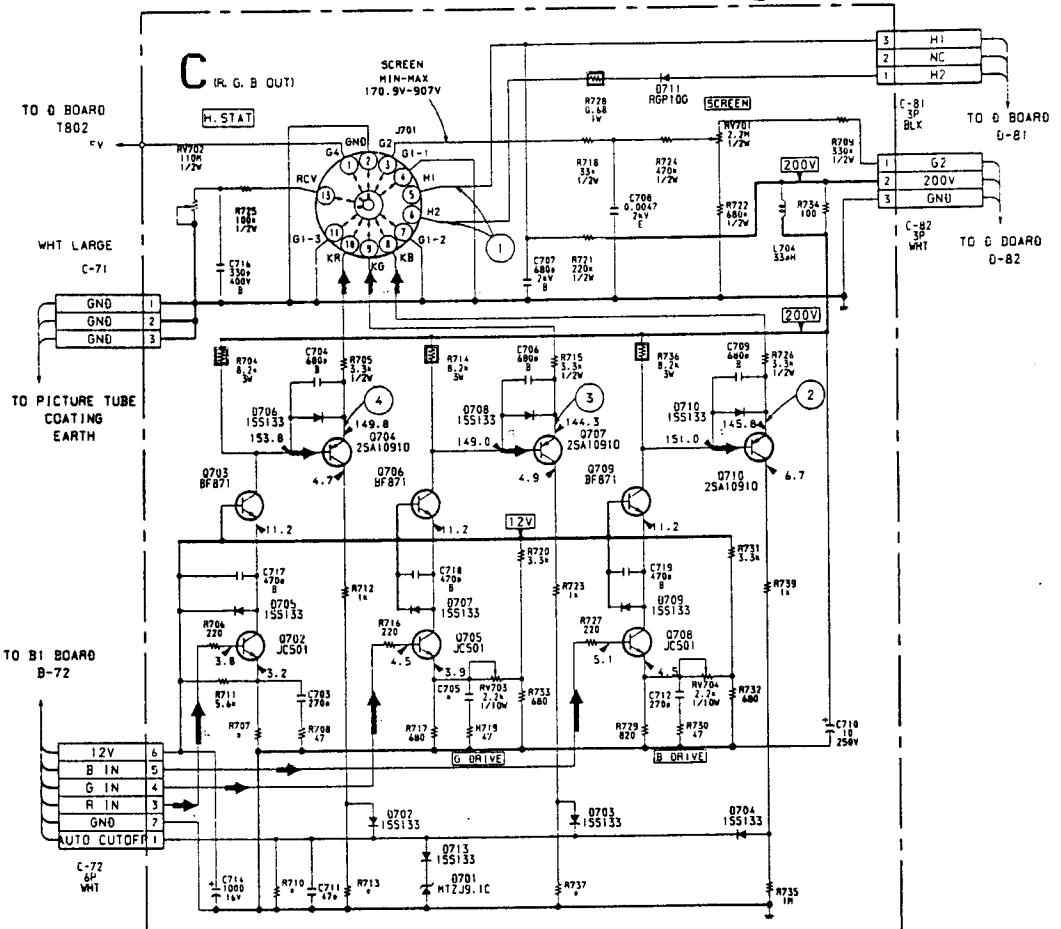
V Board Semiconductor Description

IC1	S0A20162-A002	MICRO-CONT
IC2	SAAS246E	IVT
IC3	FCB61C65-70P	STATIC-RAM
Q1	DTC114EK	STAND BY
Q2	2502096	5V REG
Q3	25C2412K	SYNC BUFFER
Q4	25C2412K	BLK OUT
Q5	HMST2907A	B OUT
Q6	HMST2907A	R OUT
Q7	HMST2907A	G OUT
Q8	25C2412K	PON SW
D1	MA3056M	SV REG
Q3	DAP202K	PROTEC
Q4	DAN202K	PROTEC
Q5	DAP202K	PROTEC
Q6	DAN202K	PROTEC
Q7	MA3036M	PROTEC
Q9	MA3068M	PROTEC

C Board Semiconductor Description

Q702	JC501	R DRIVE
Q703	BF871	R OUT
Q704	25A10910	ACO MEASURING
Q705	JC501	G DRIVE
Q706	BF871	G OUT
Q707	25A10910	ACO MEASURING
Q708	JC501	B DRIVE
Q709	BF871	B OUT
Q710	25A10910	ACO MEASURING
Q701	MT2J9.1C	PROTECT
Q702	15S133	PROTECT
Q703	15S133	PROTECT
Q704	15S133	PROTECT
Q705	15S133	PROTECT
Q706	15S133	PROTECT
Q707	15S133	PROTECT
Q708	15S133	PROTECT
Q709	15S133	PROTECT
Q710	15S133	PROTECT
Q711	RGP10G	HEATING VOLTAGE REC
Q713	15S133	PROTECT

RGB Out Diagram C



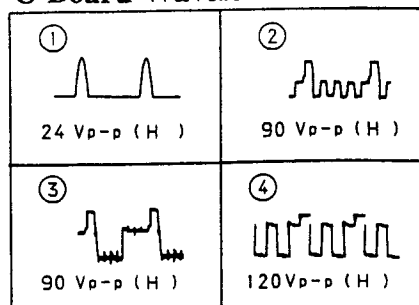
A1 Board Semiconductor Description

IC1101	T0A8732	DEMOD
IC1102	SA7280	NICAM DECO
IC1103	SN74LS02N	INVERTER
IC1104	NE5532P	EQ AMP R
IC1105	NE5532P	EQ AMP L
IC1106	MC14053BCP	AUDIO SW
IC1107	T0A1543	D/A CONV
Q1101	25C2412K	SIF BUFF-1
Q1102	25C2412K	SIF AMP
Q1103	25C2412K	SIF BUFF-2
Q1104	DTC144EK	LOGIC
Q1105	250773	5V REG
Q1106	DTC144EK	4LEVEL
Q1107	DTC144EK	4LEVEL
Q1108	DTC144EK	4LEVEL
Q1109	DTC144EK	4LEVEL
Q1110	DTC144EK	AUDIO SW
D1101	BB405B	—
D1102	BB809	—
D1103	DAN202K	RESET
D1104	DAN202K	EOE ?
D1105	DAP202K	LOGIC
D1106	MA3056M-TX	5V ZENER
D1107	DAN202K	LOGIC
D1108	DAP202K	LOGIC

C Board * Mark Values

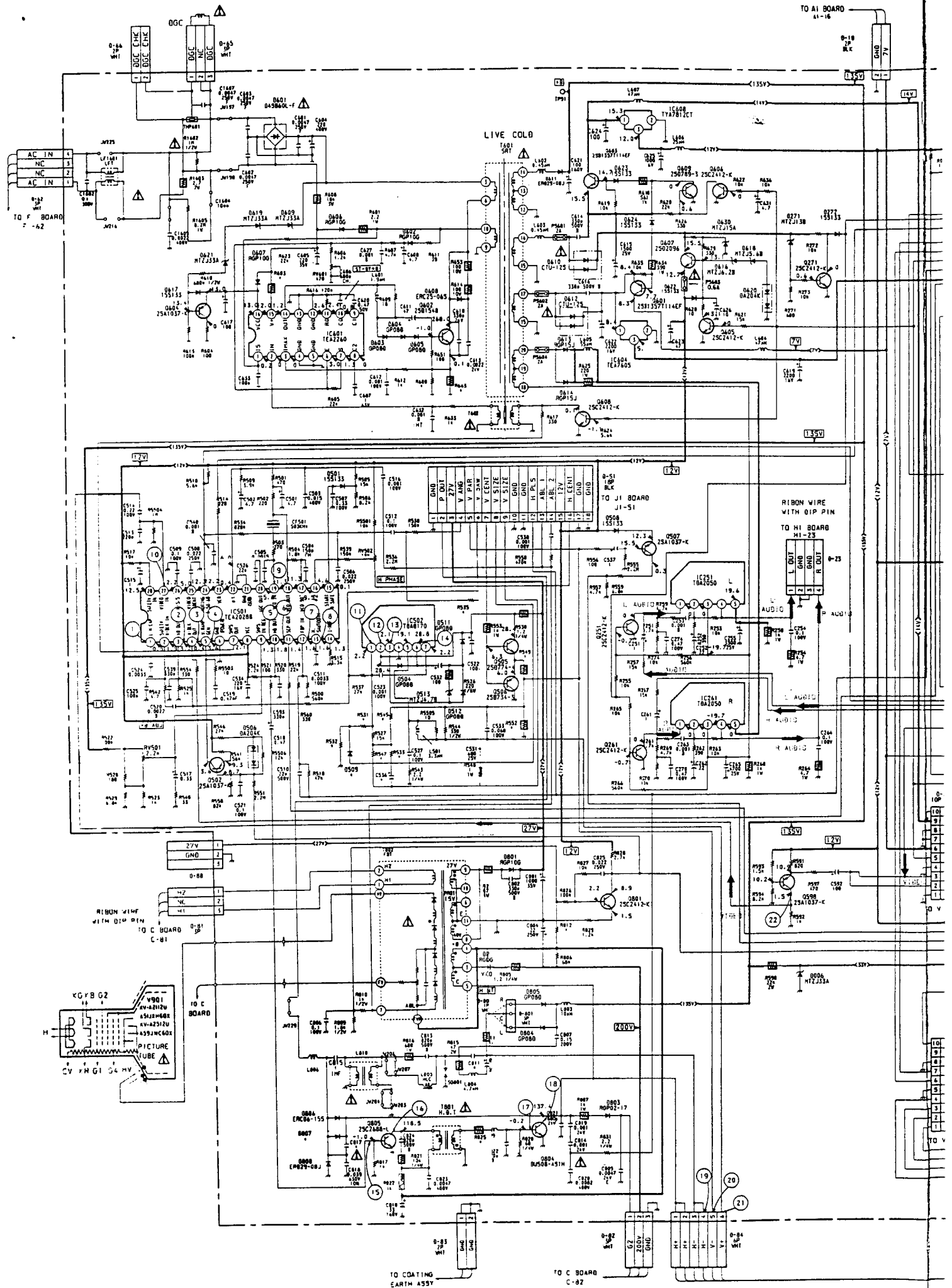
* MARK	KV-A2112U	KV-A2512U	KV-X2932U
C705	180pF	220pF	220pF
R707	430	390	390
R710	100k	68k	68k
R713	160k	120k	120k
R737	390k	820k	470k

C Board Waveforms

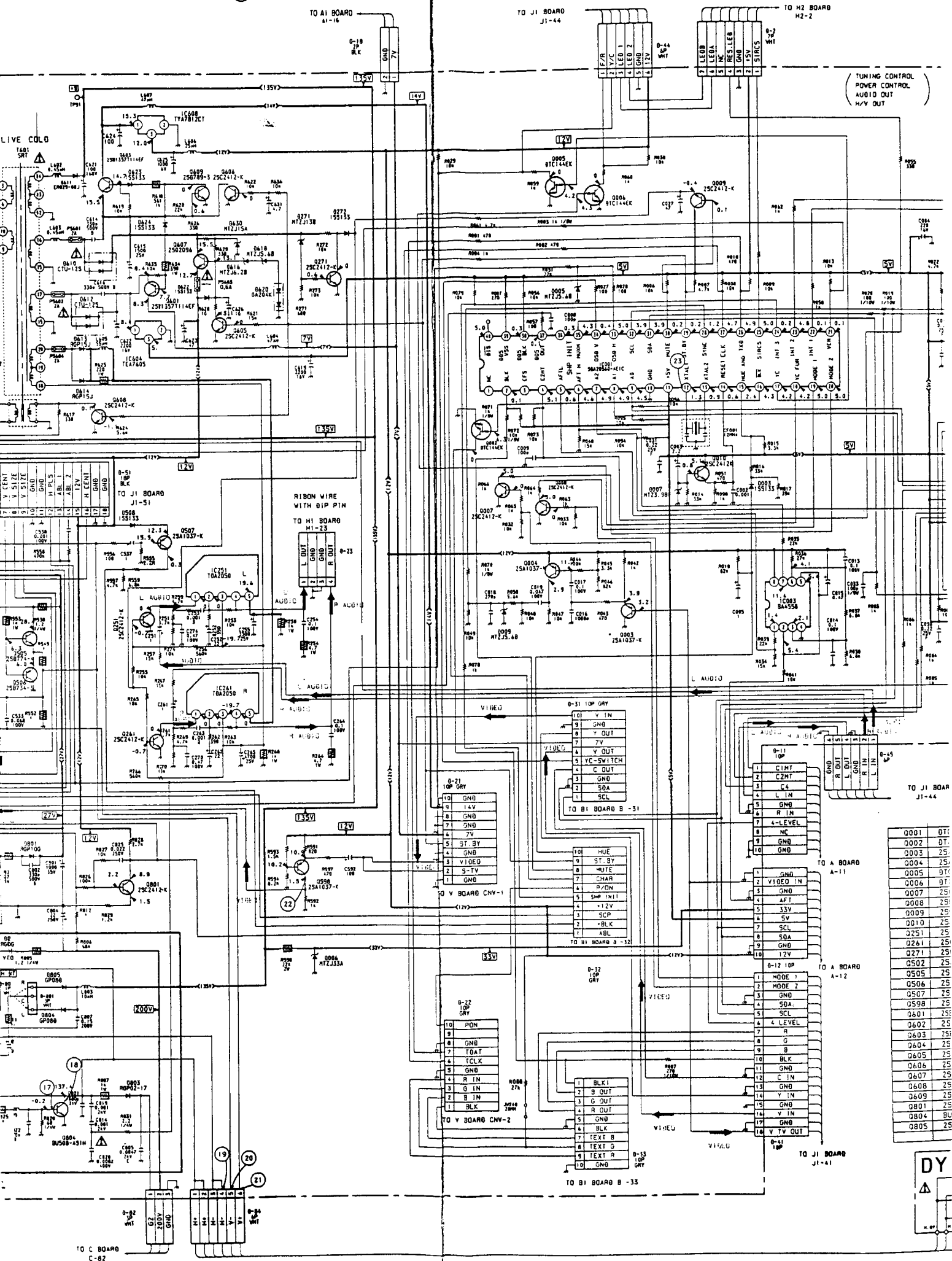


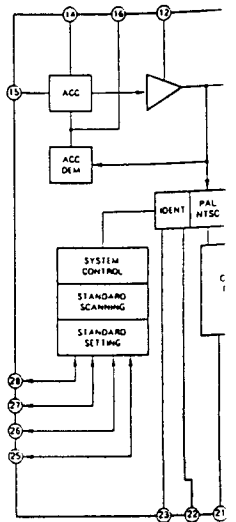
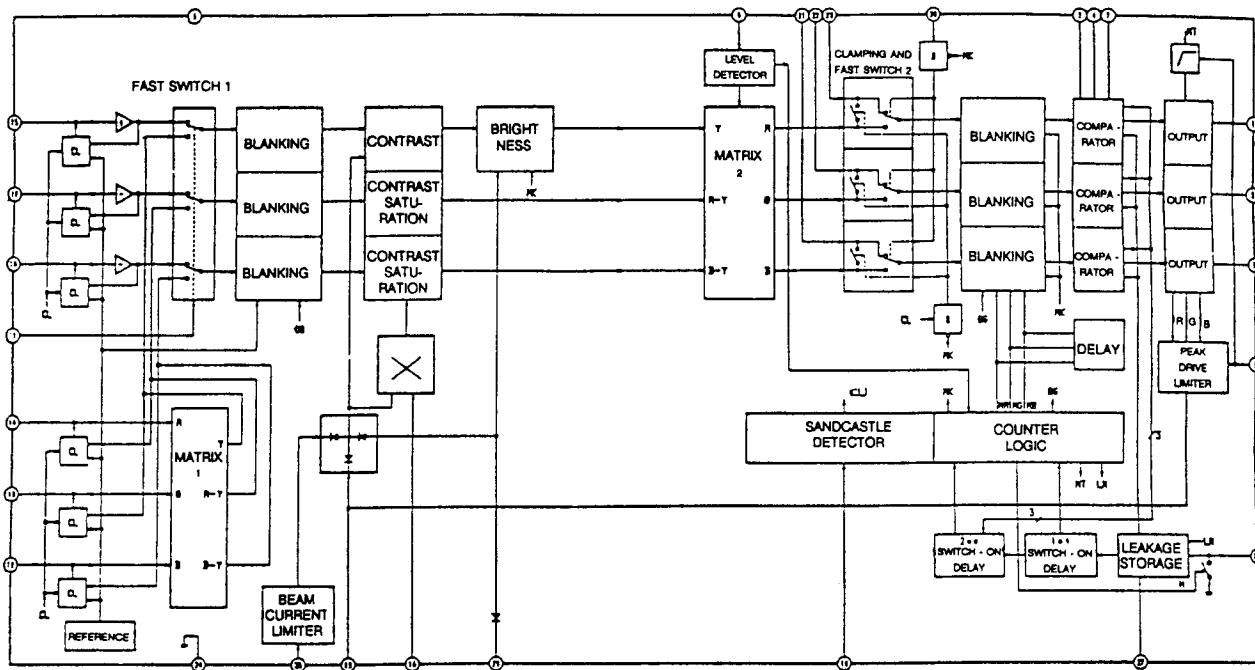
Tuning and Power Control, Audio Out and H/V Out Diagram

D

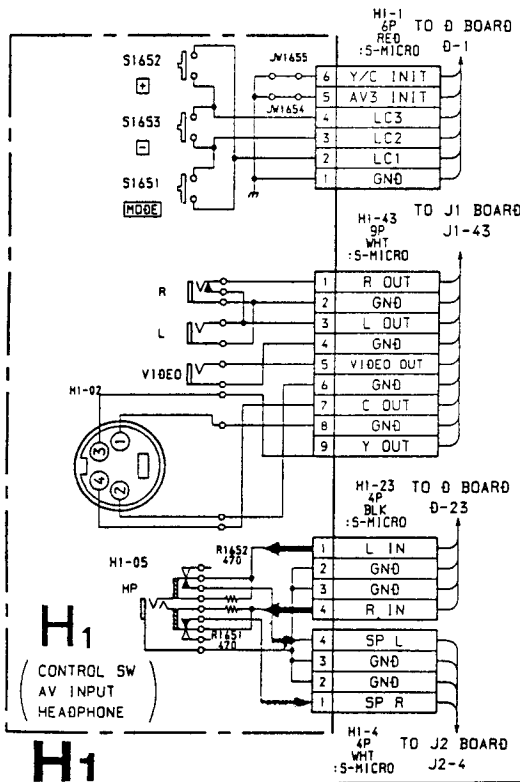


D

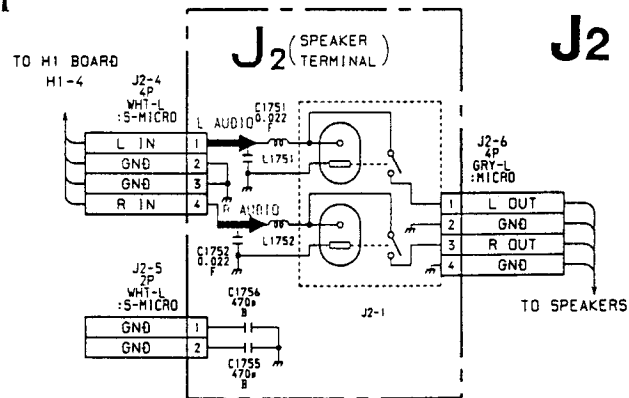




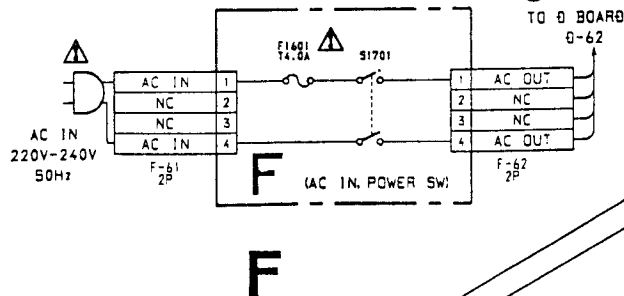
Control Switch, AV Input and Headphone Diagram



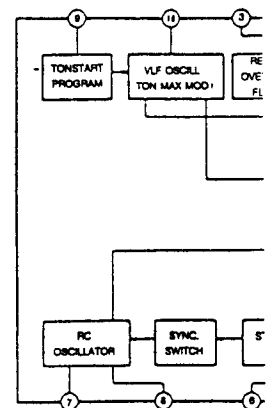
Speaker Terminal Diagram



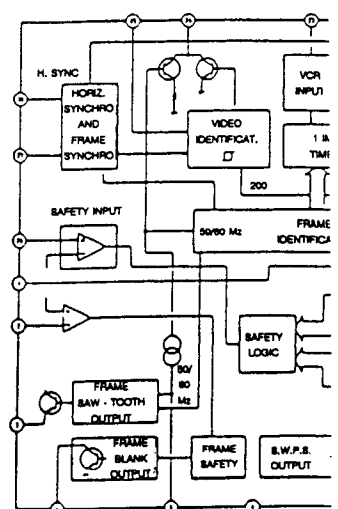
AC In and Power Switch Diagram



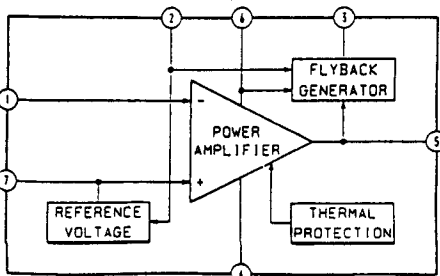
D Board IC601 TEA



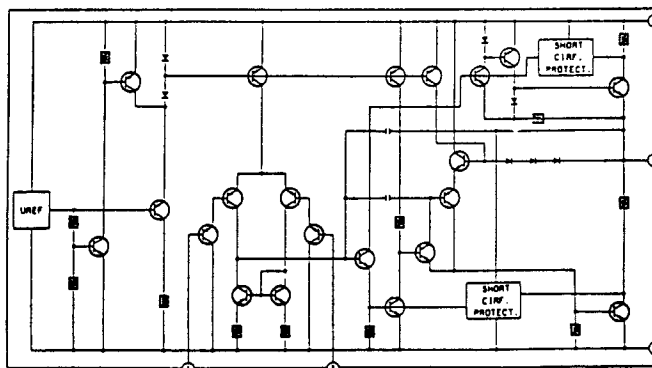
D Board IC501 TEA202E



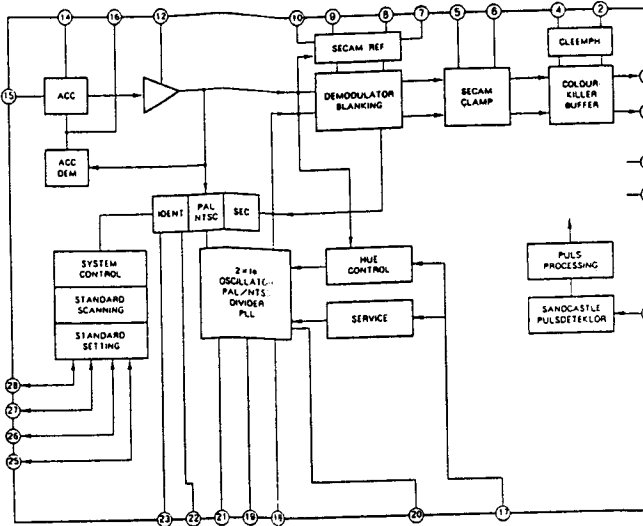
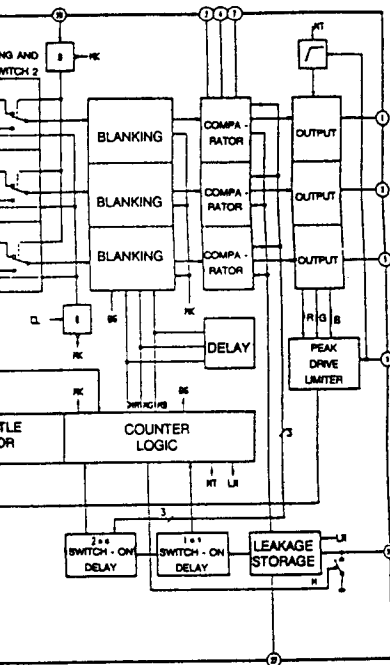
D Board IC502 TDA8170



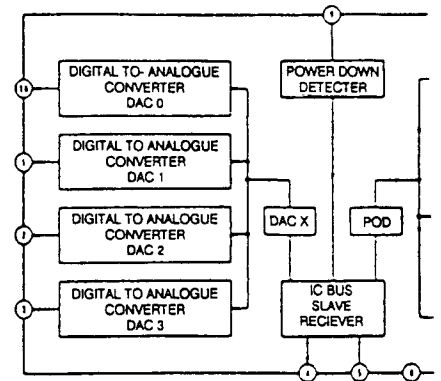
D Board IC251/261TDA2050



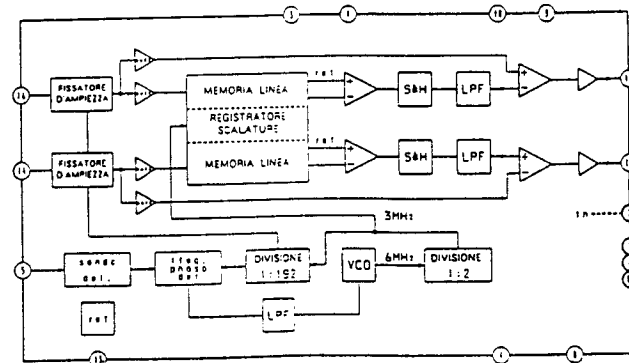
B1 Board IC304 TDA4650WP



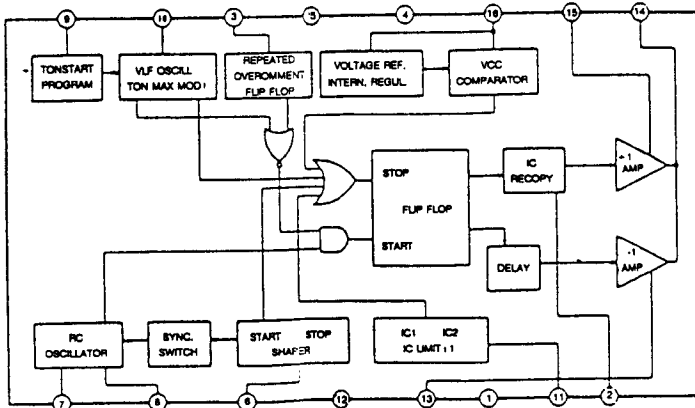
B1 Board IC302 TDA8442-N3



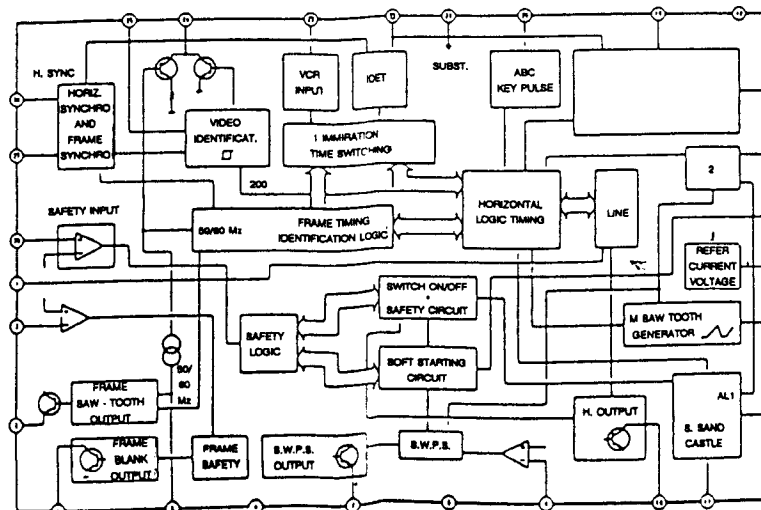
B1 Board IC303 TDA4660T



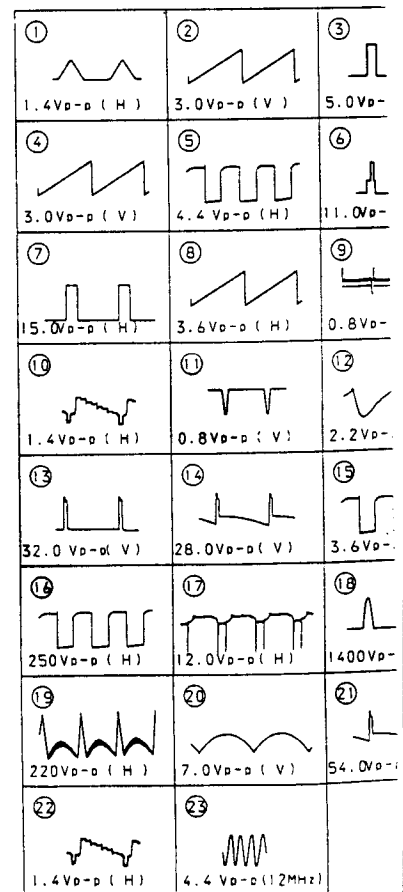
D Board IC601 TEA2260

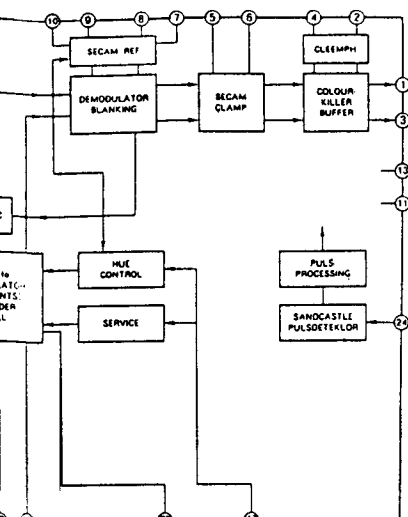


D Board IC501 TEA2028B

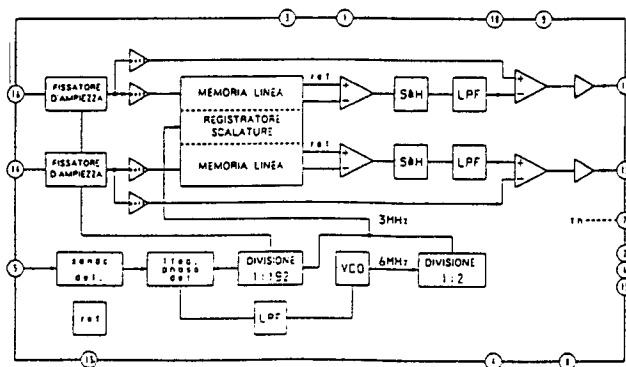


- D Board - Waveforms



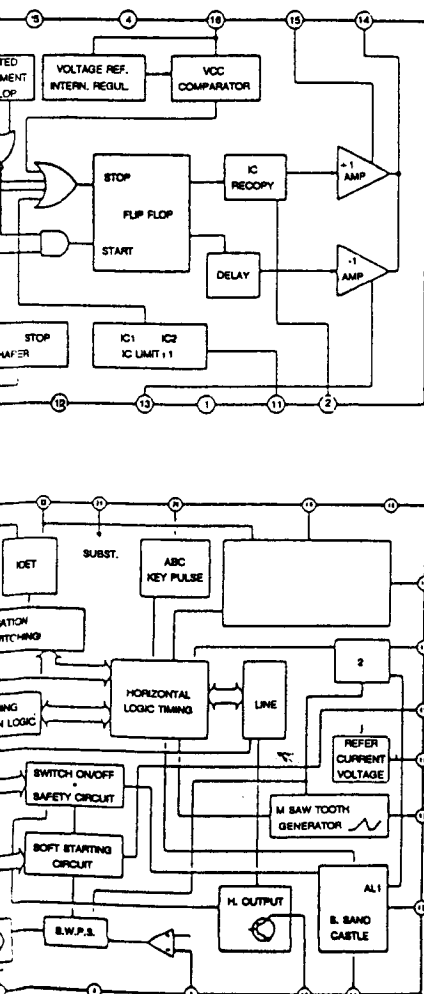
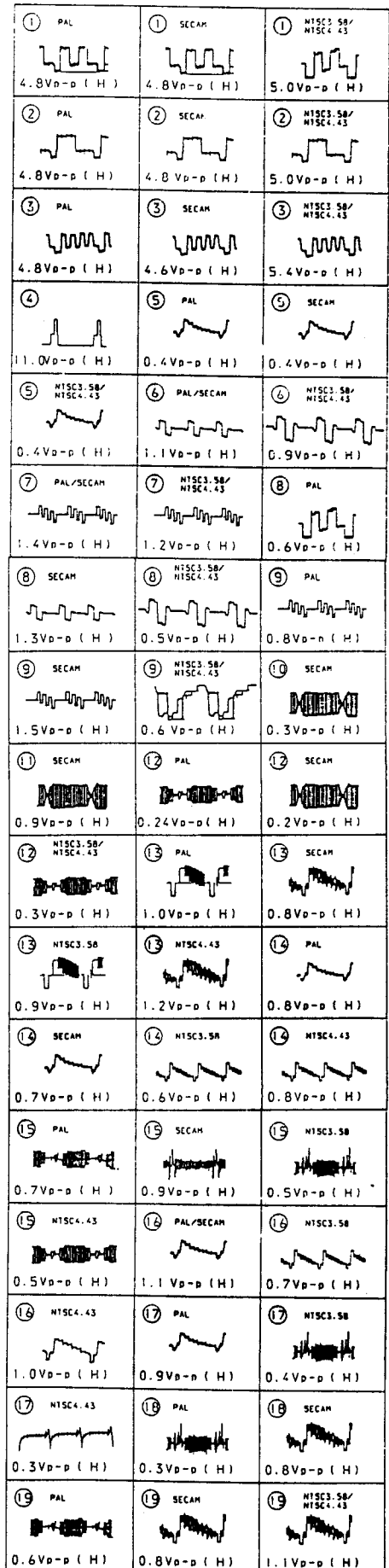


B1 Board IC303 TDA4660T



B1 Board IC302 TDA8442-N3

B1 Board Waveforms



- D Board - Waveforms

