

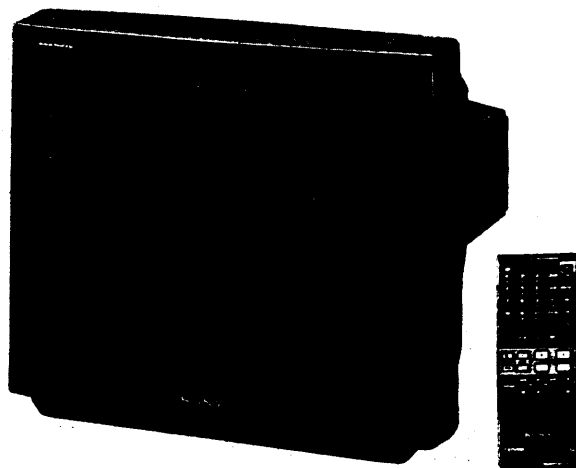
KV-X2521D

RM-673

SERVICE MANUAL

AEP Model

Chassis No. SCC-B14T-A



8

AE-1 CHASSIS

Note: The service manual for RM-673 has been issued separately.

MODELS OF THE SAME SERIES

KV-2521D	KV-2121D
KV-DX25TD	KV-DX27TD
KV-X25TD	KV-X21TD

SPECIFICATIONS

Television system CCIR B, G and H
Color system PAL, SECAM, NTSC_{3.58}, NTSC_{4.43}
Stereo system German two-carrier system
Channel coverage VHF channels E2-E12
 UHF channels E21-E69
 Cable TV channels S1-S20
 (A total of up to 30 preselected channels)

Picture tube Trinitron tube
 110-degree deflection
 Approx. 63.5 cm (25 inches)
 (Approx. 59 cm picture measured diagonally)

Inputs 21-pin connector : CENELEC Standard
 21-pin connector : RGB input
 unconnected

Outputs Headphones jack : stereo minijack
 External speaker terminals : 2-pin DIN
 Audio output jack : phonojack output
 level dependent upon TV setting

Power consumption 94 Wh
Dimensions Approx. 587 × 519 × 460 mm
 (w/h/d)
Weight Approx. 35.5 kg
Supplied accessories RM-673 Remote Commander (1)
 IEC designation R6 batteries (2)
Audio output 10 W + 10 W (music power)

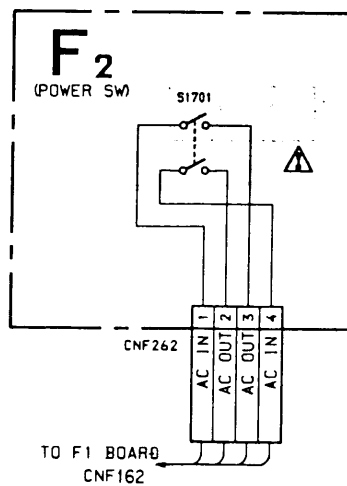
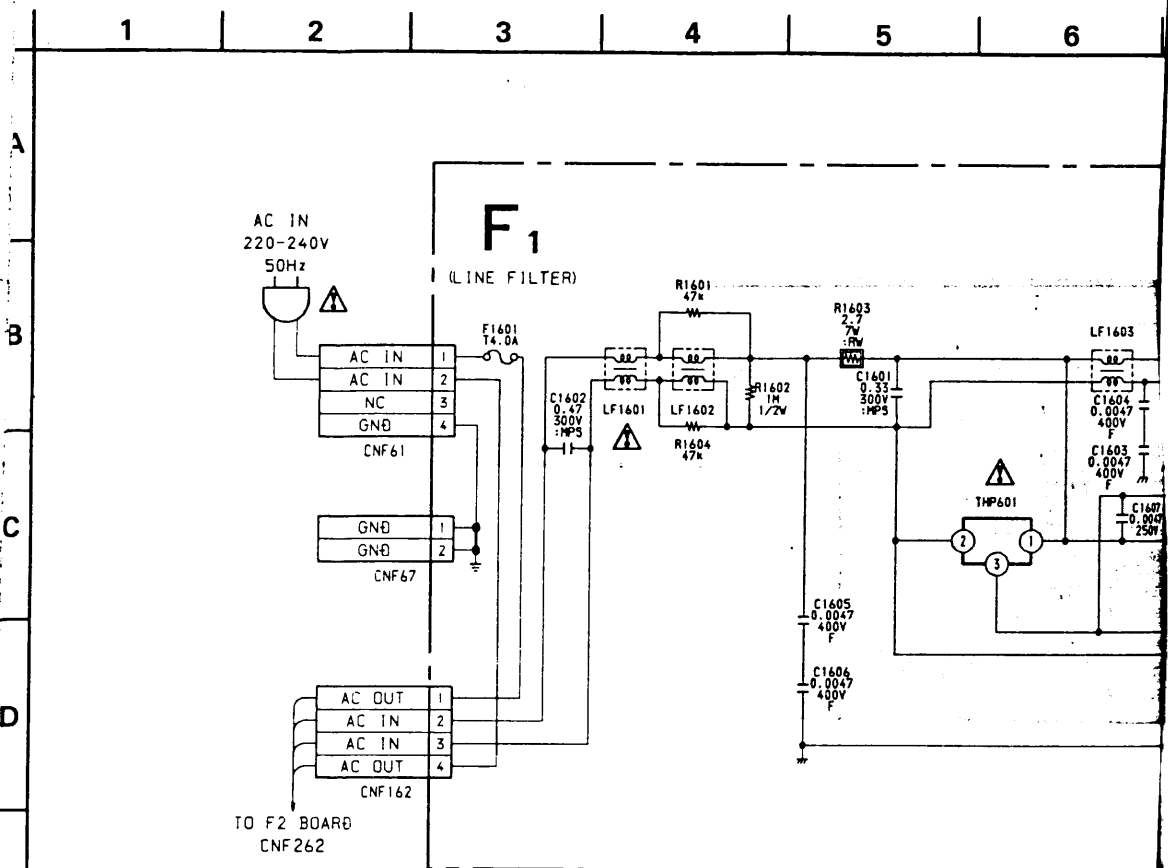
Design and specifications are subject to change without notice.



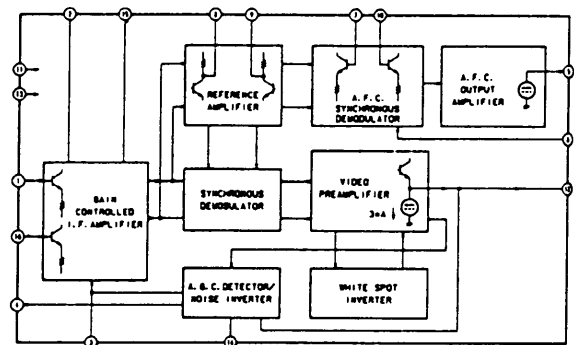
TRINITRON® COLOR TV

SONY®

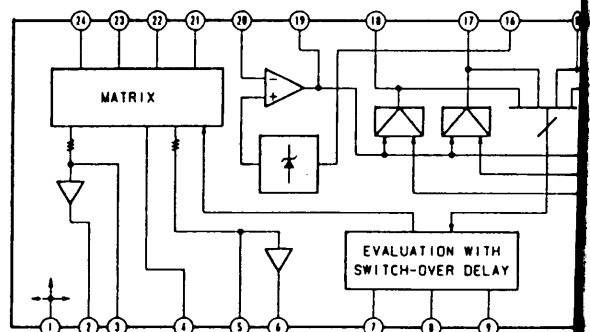
5-3. SCHEMATIC DIAGRAMS



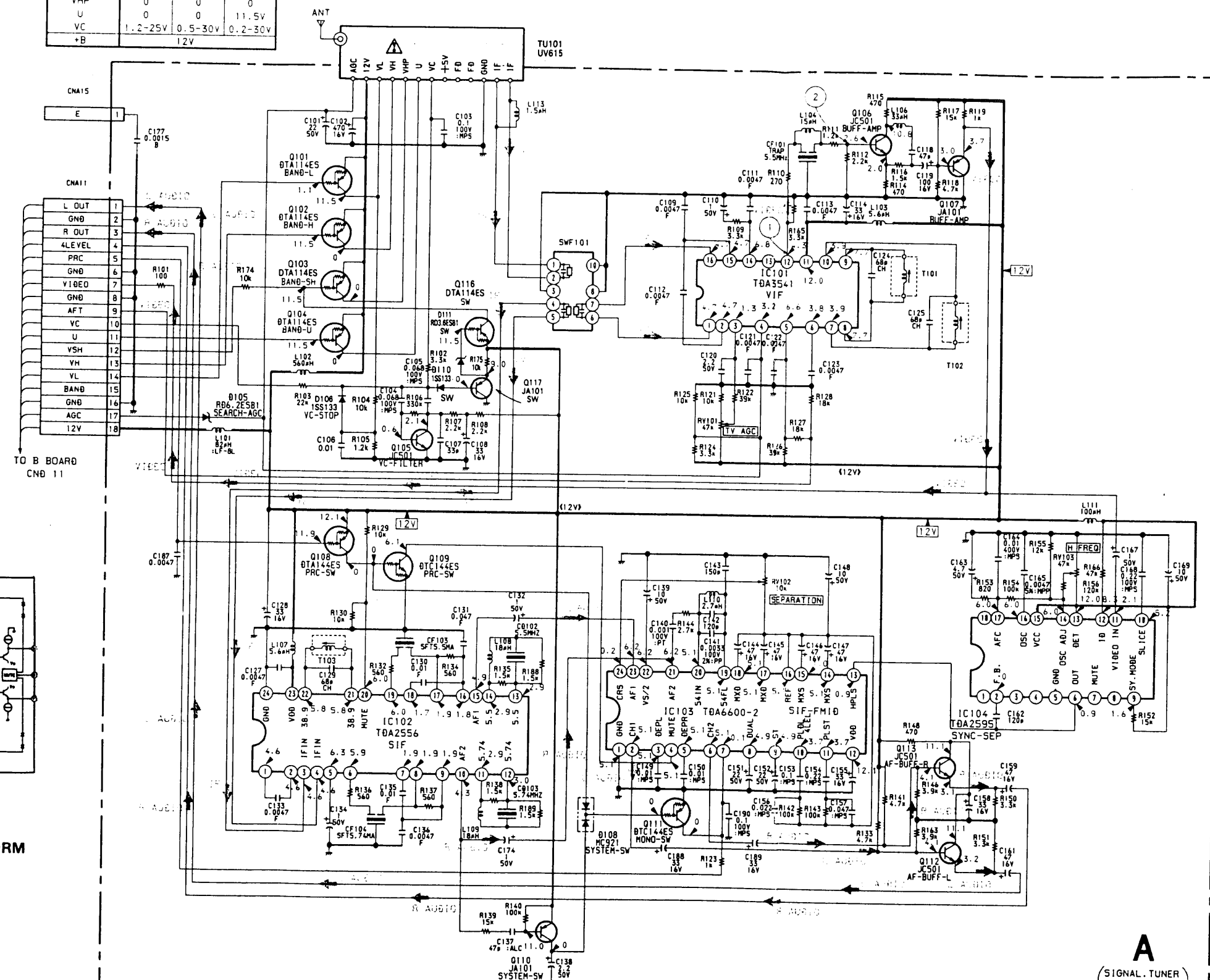
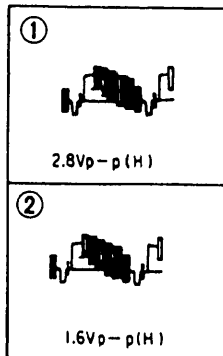
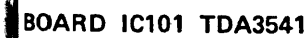
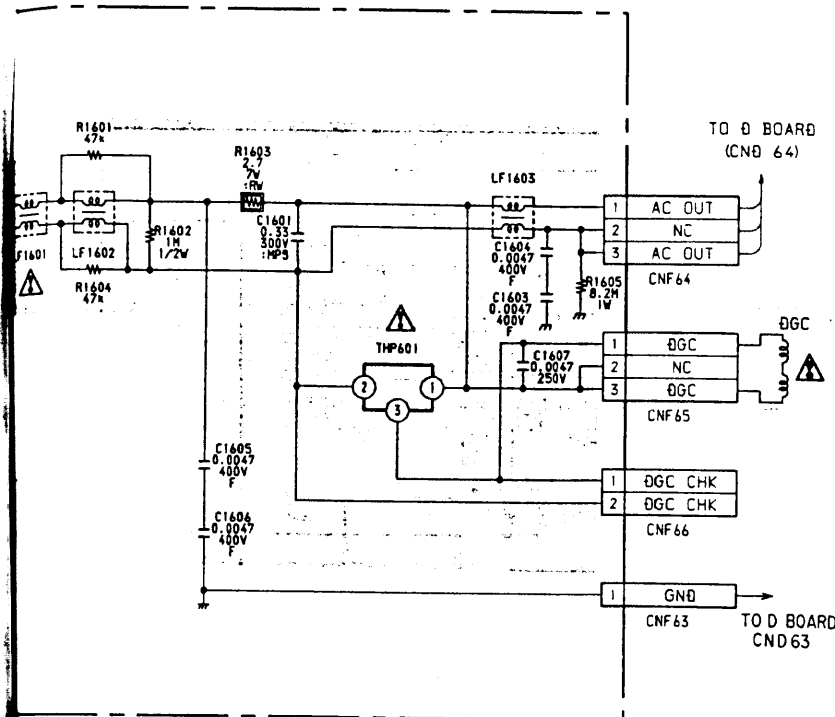
A BOARD IC101 TDA3541



A BOARD IC103 TDA6600



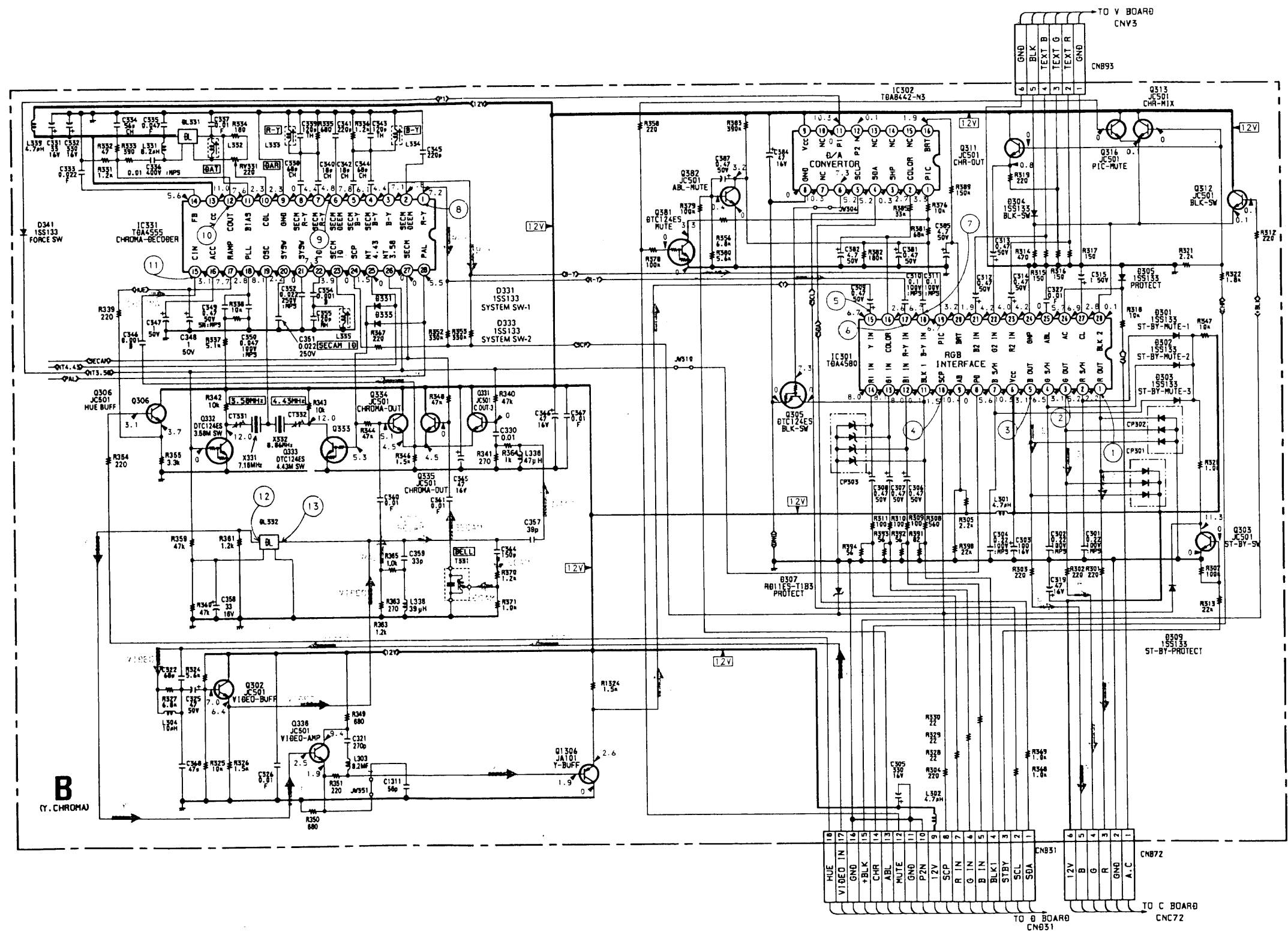
TUNE	BAND	VHF LOW	VHF HIGH	UHF
AGC		0.1-9V		
VL		11.5V	0	0
VH		0	11.5	0
VHP		0	0	0
U		0	0	11.5V
VC		1.2-25V	0.5-30V	0.2-30V
+B		12V		



A
(SIGNAL.TUNER)
BAND SW

KV-X2521D
RM-673KV-X2521D
RM-673

20 21 22 23 24 25 26 27 28 29 30 31

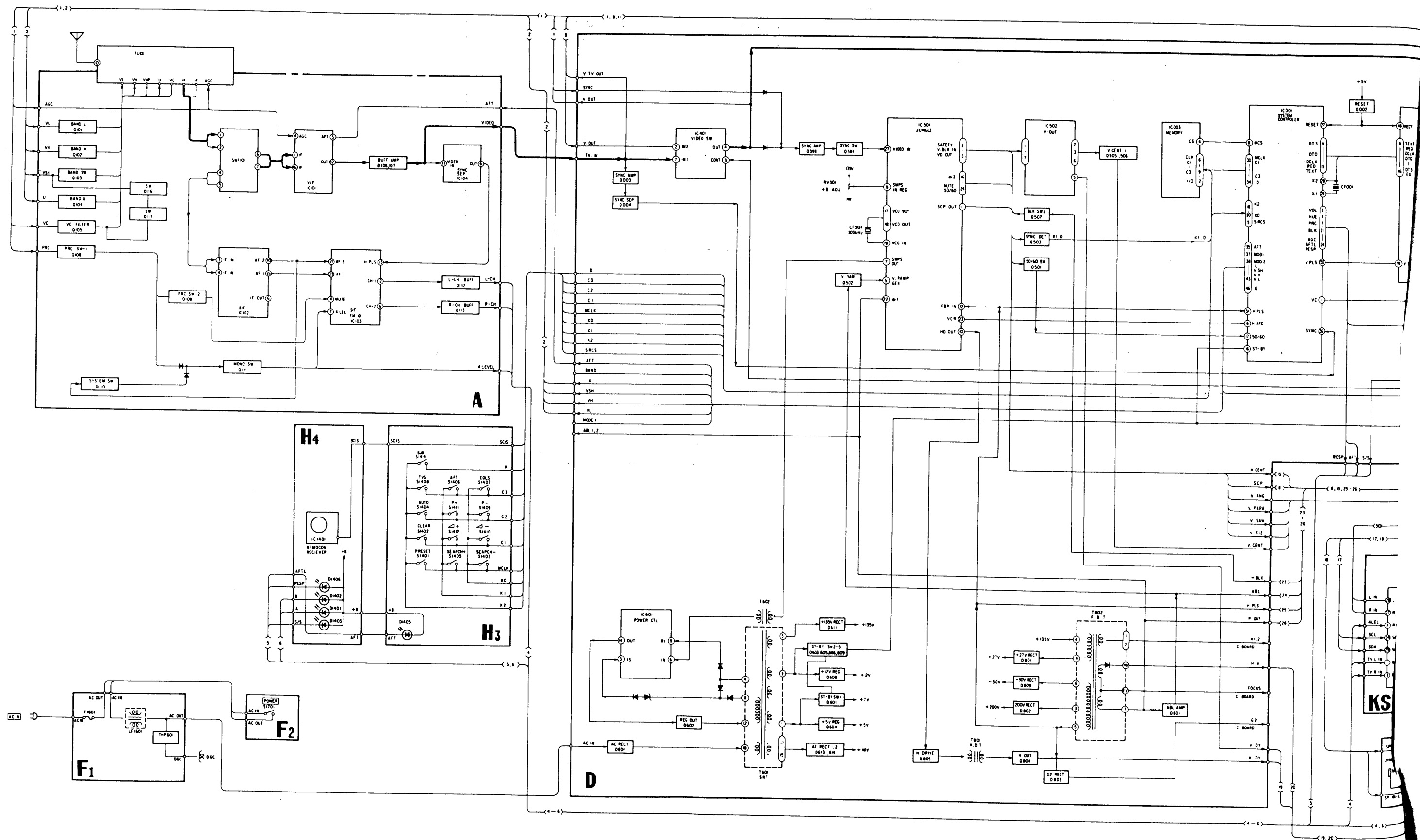


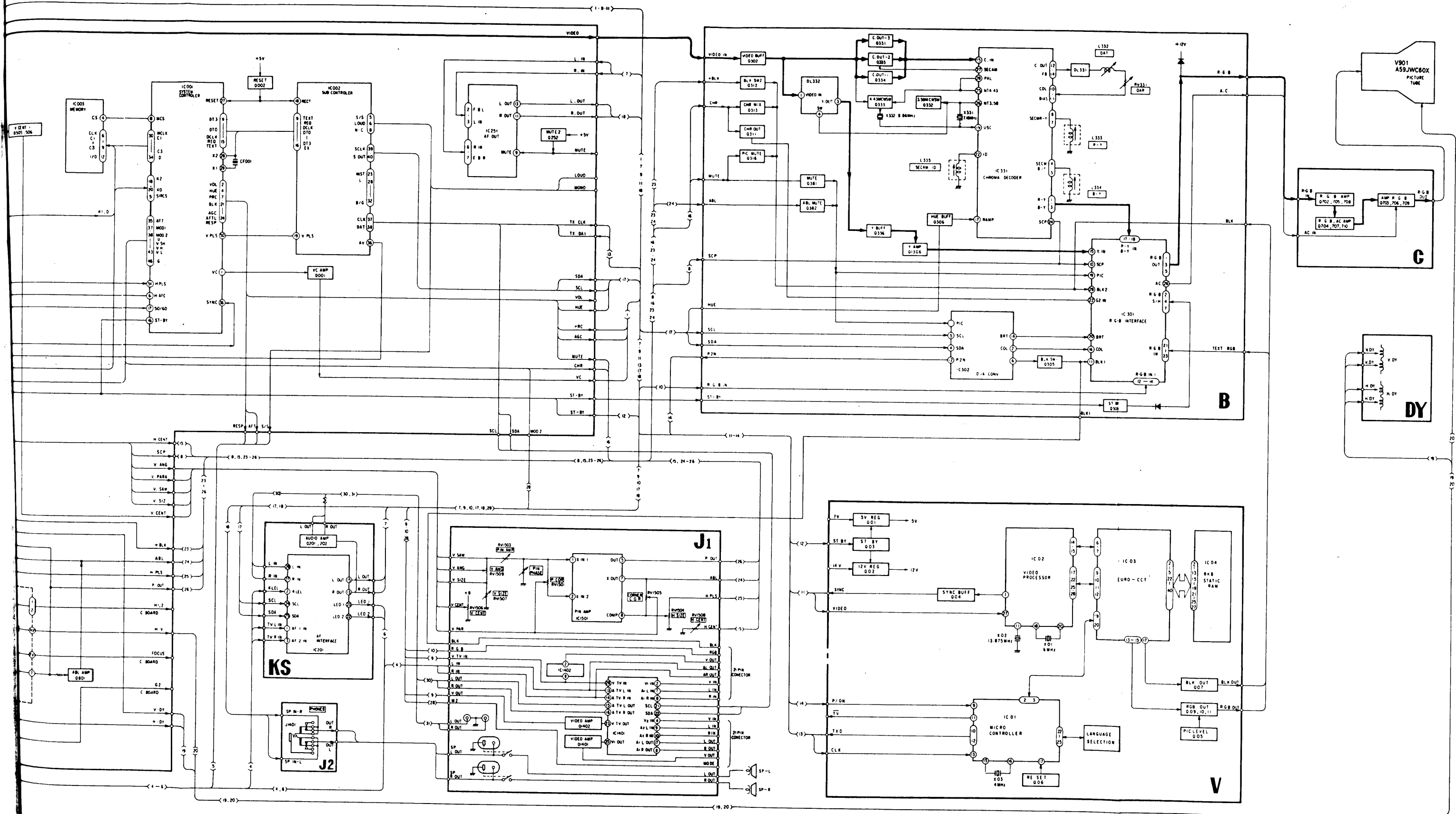
SECTION 5 DIAGRAMS

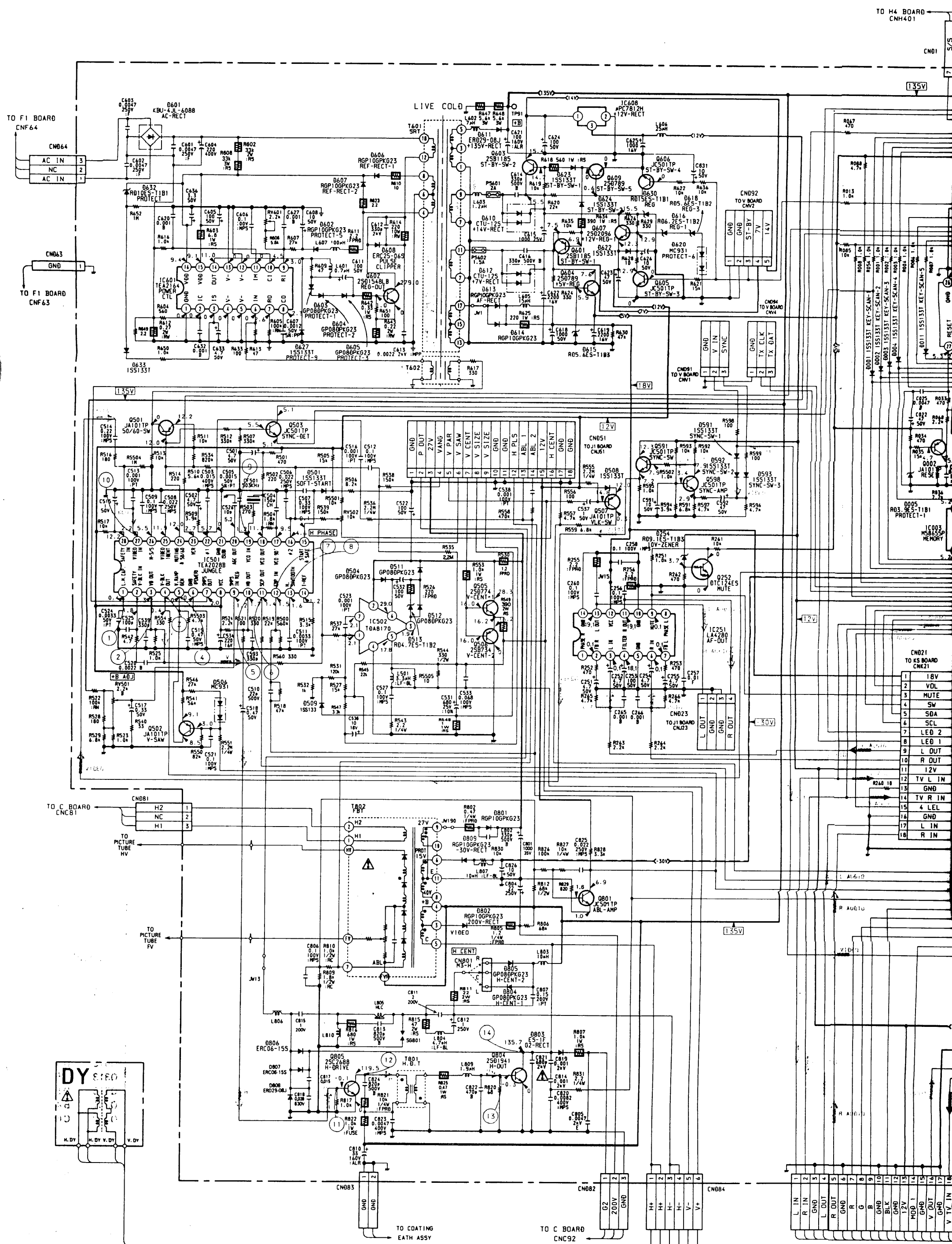
KV-X2521D
RM-673

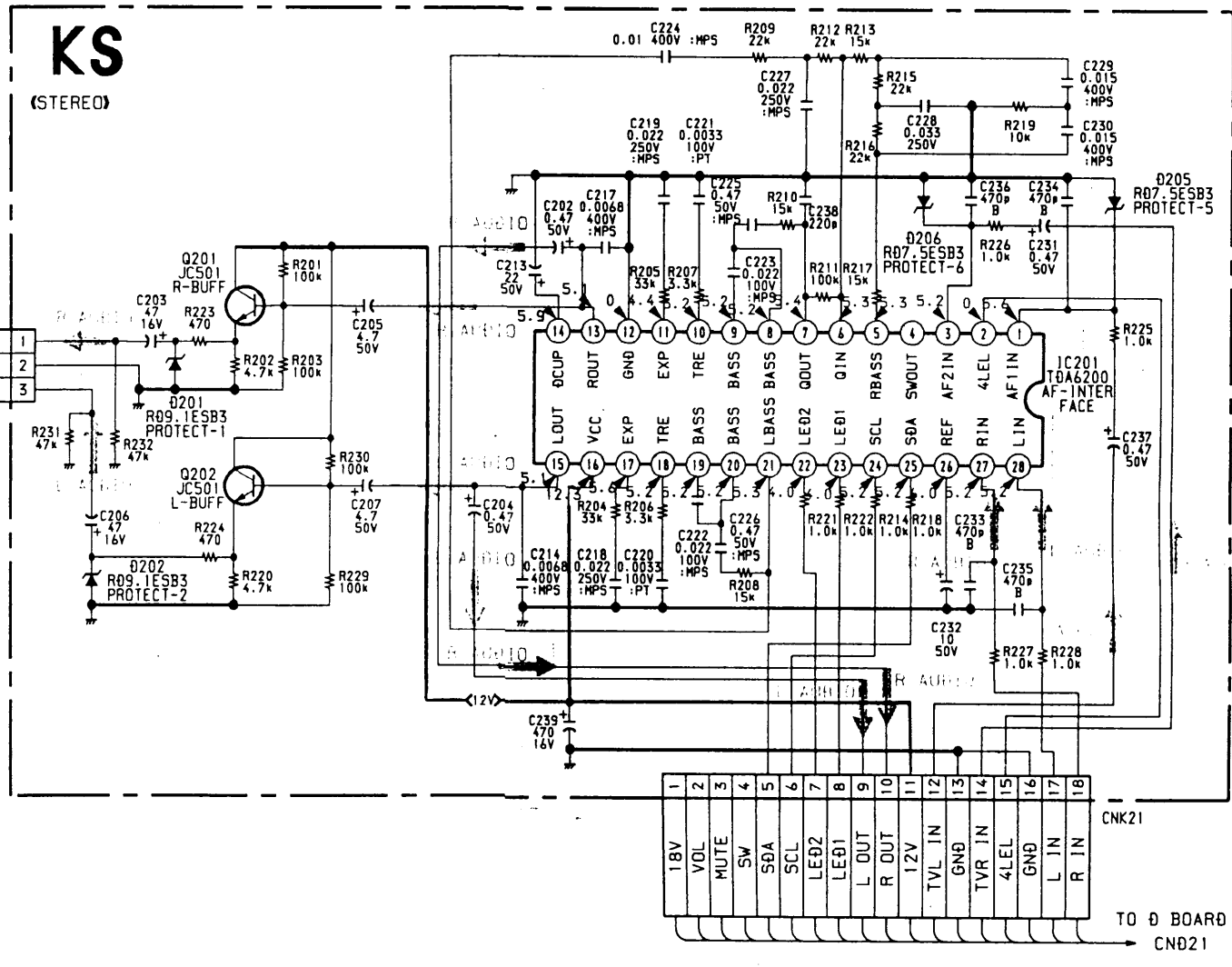
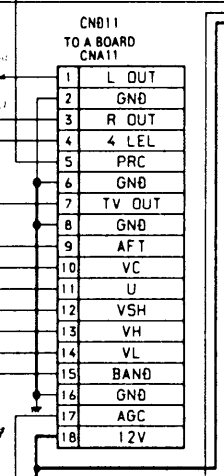
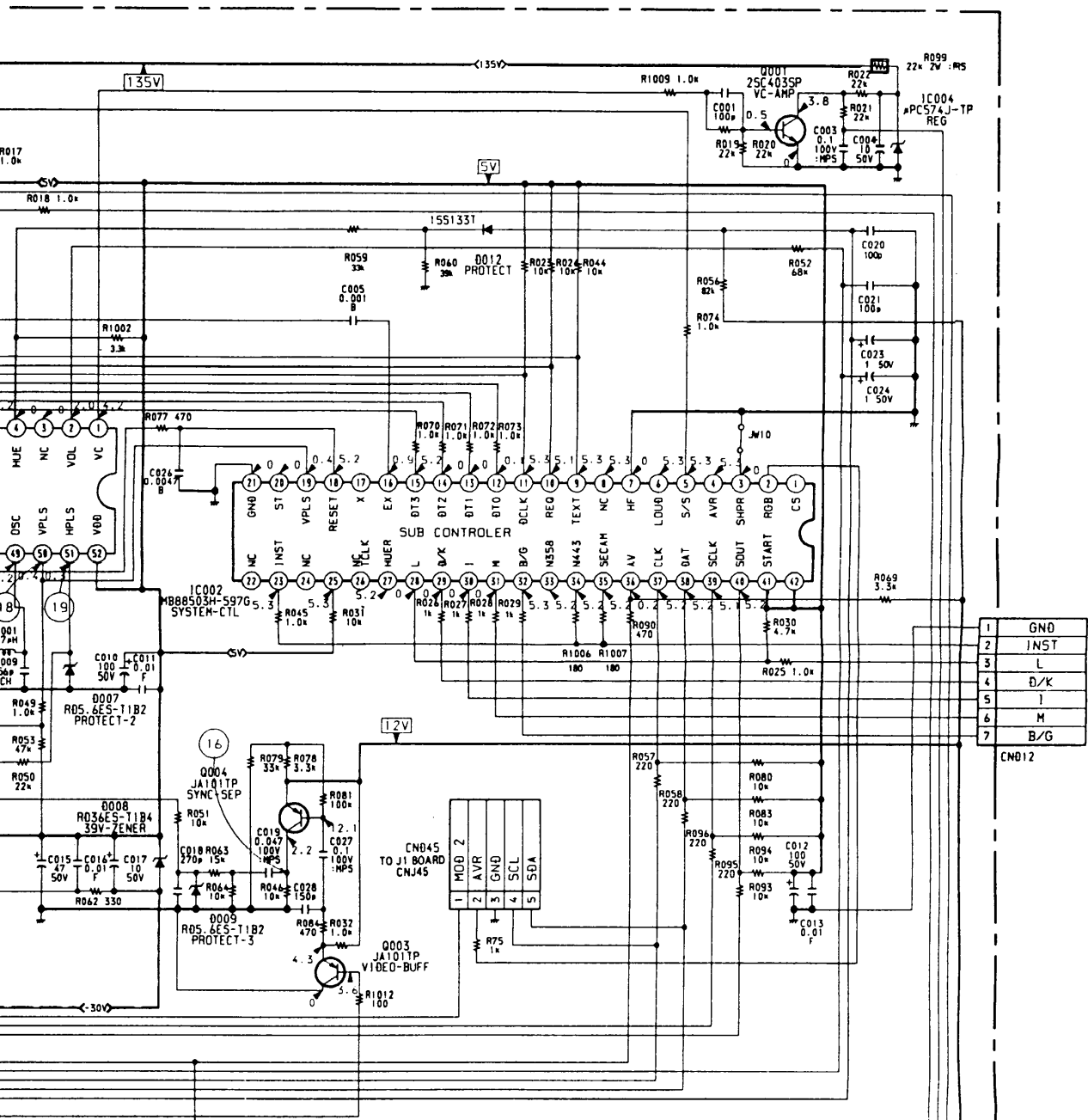
KV-X2521D
RM-673

BLOCK DIAGRAM







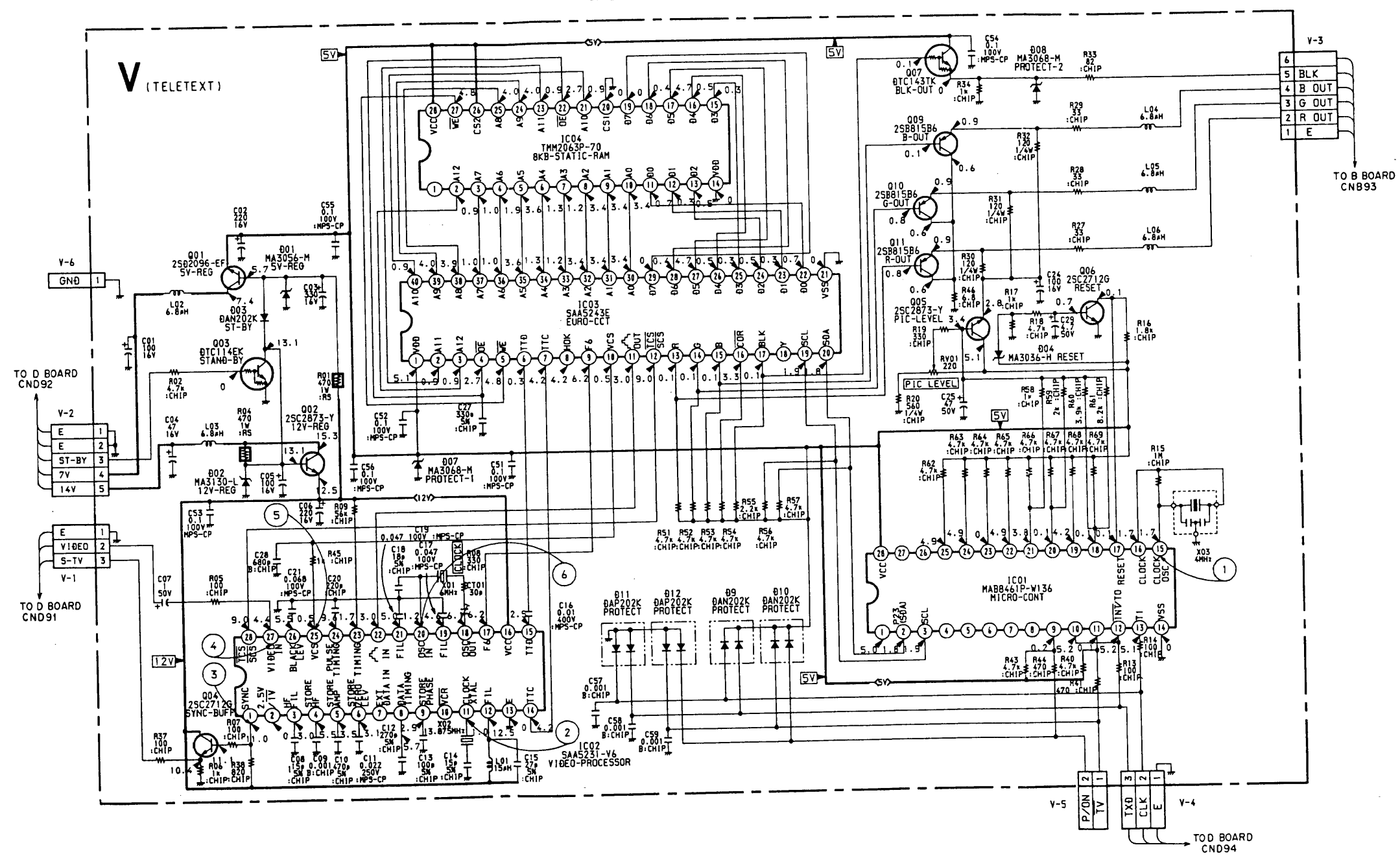


CONTROL POWER CT. 1-V OUT.

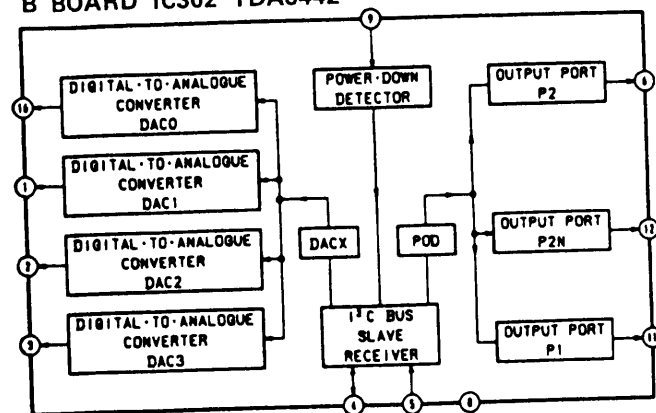
D

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P

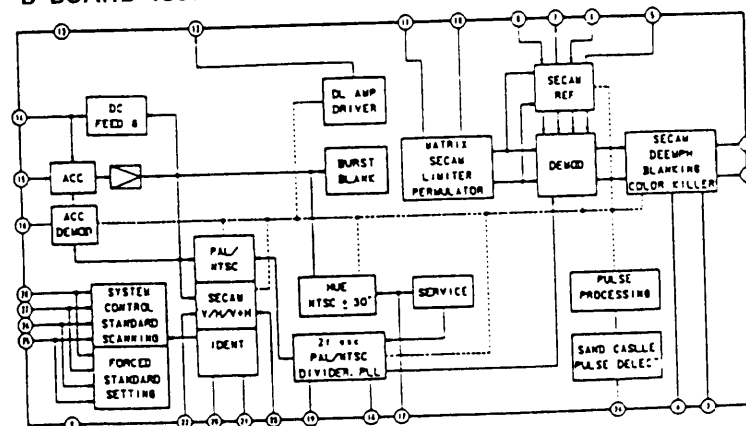
V
J
K
L
M
N
O
P



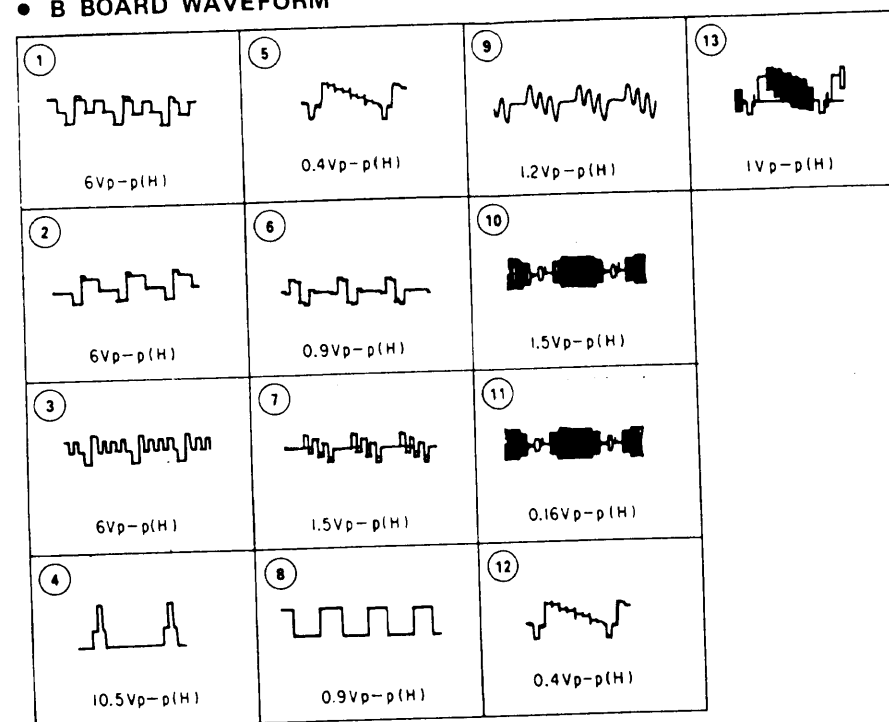
B BOARD IC302 TDA8442



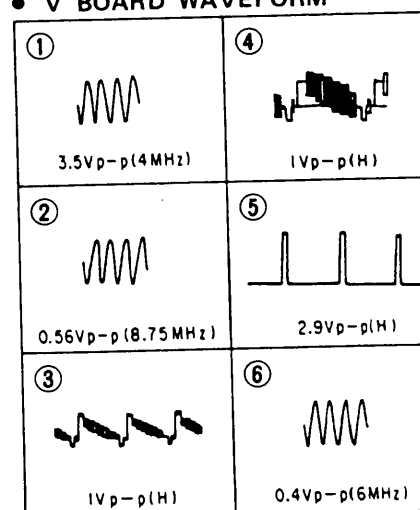
B BOARD IC331 TDA4555



• B BOARD WAVEFORM



• V BOARD WAVEFORM



TED WIRING BOARDS

A [SIGNAL TUNER,
BAND SW, VIF, SIF]

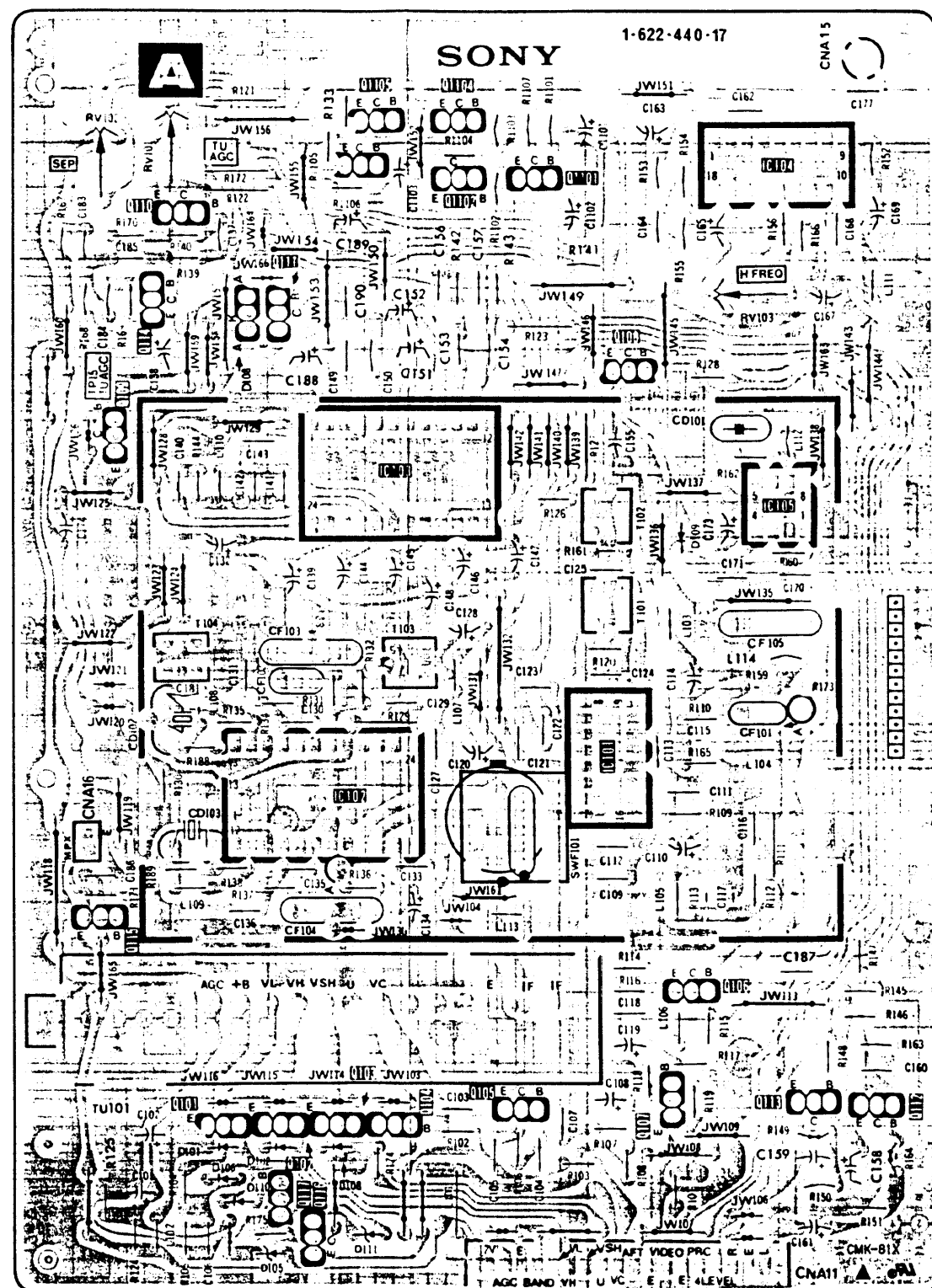
B [R-G-B INTERFACE,
D/A CONVERTER,
CHROMA DECODER]

F1 [LINE FILTER]

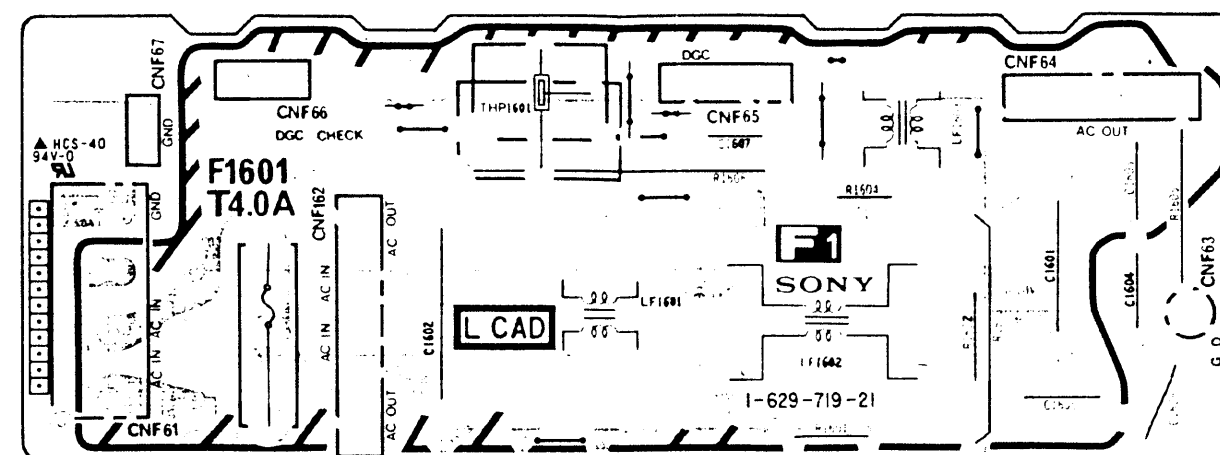
F2

V [TELETEXT]

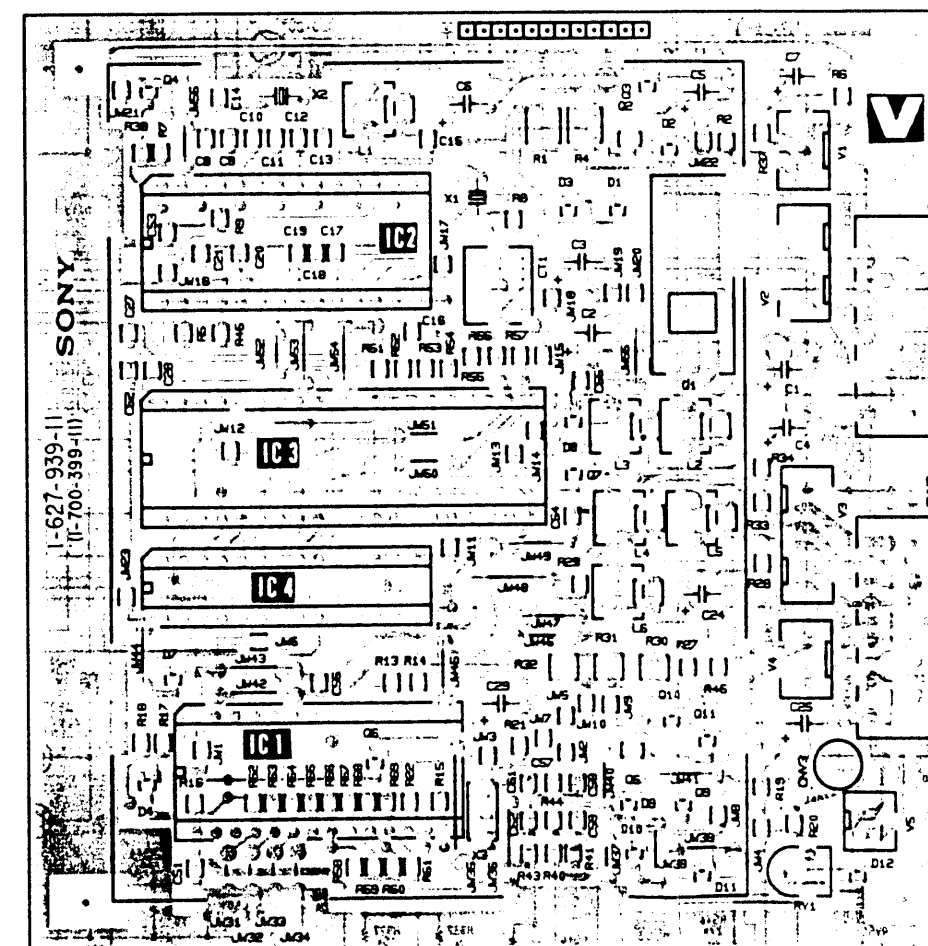
- A Board -



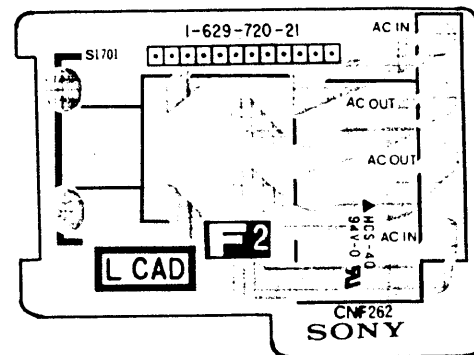
- F1 Board -



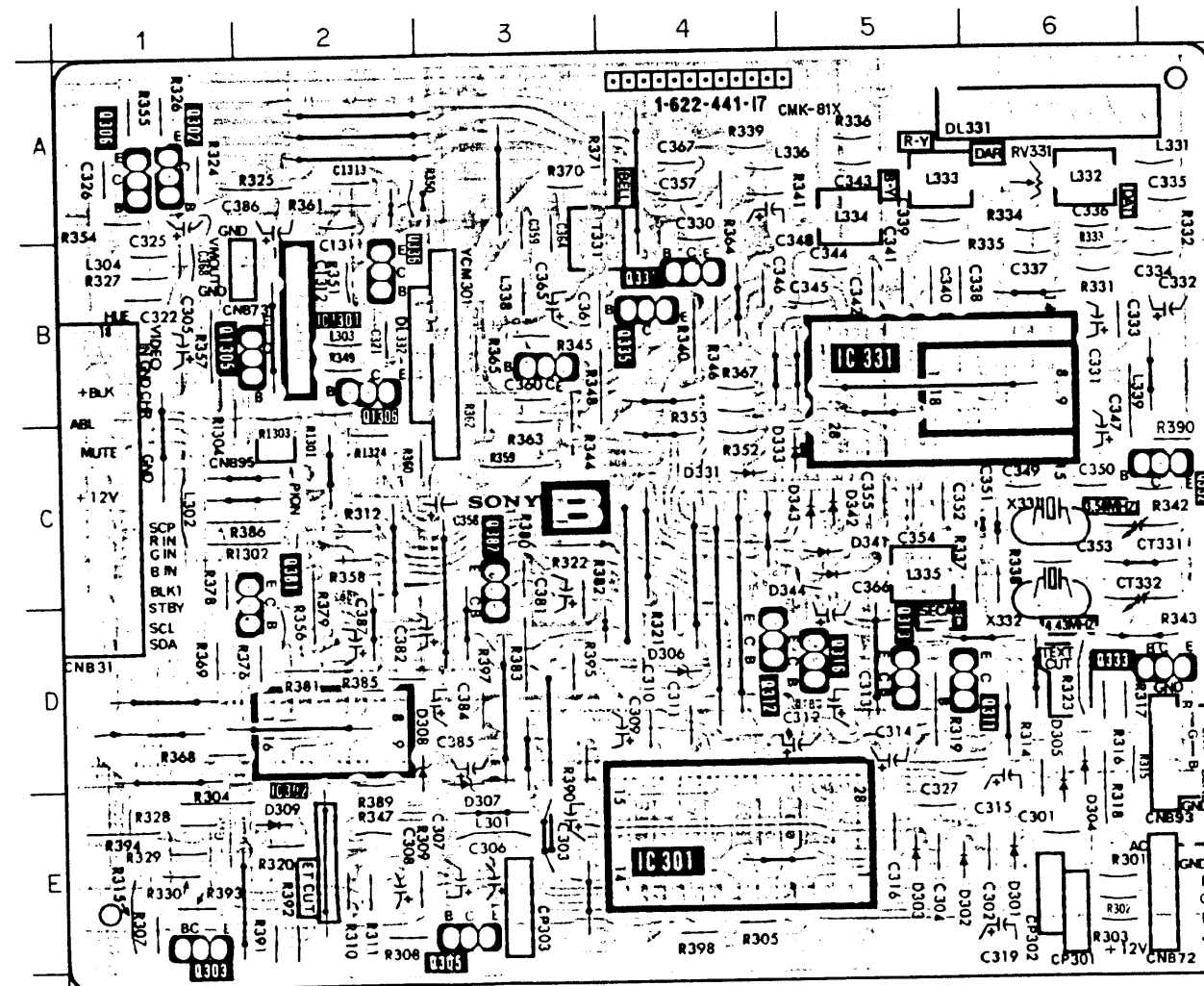
- V Board -



— F2 Board —

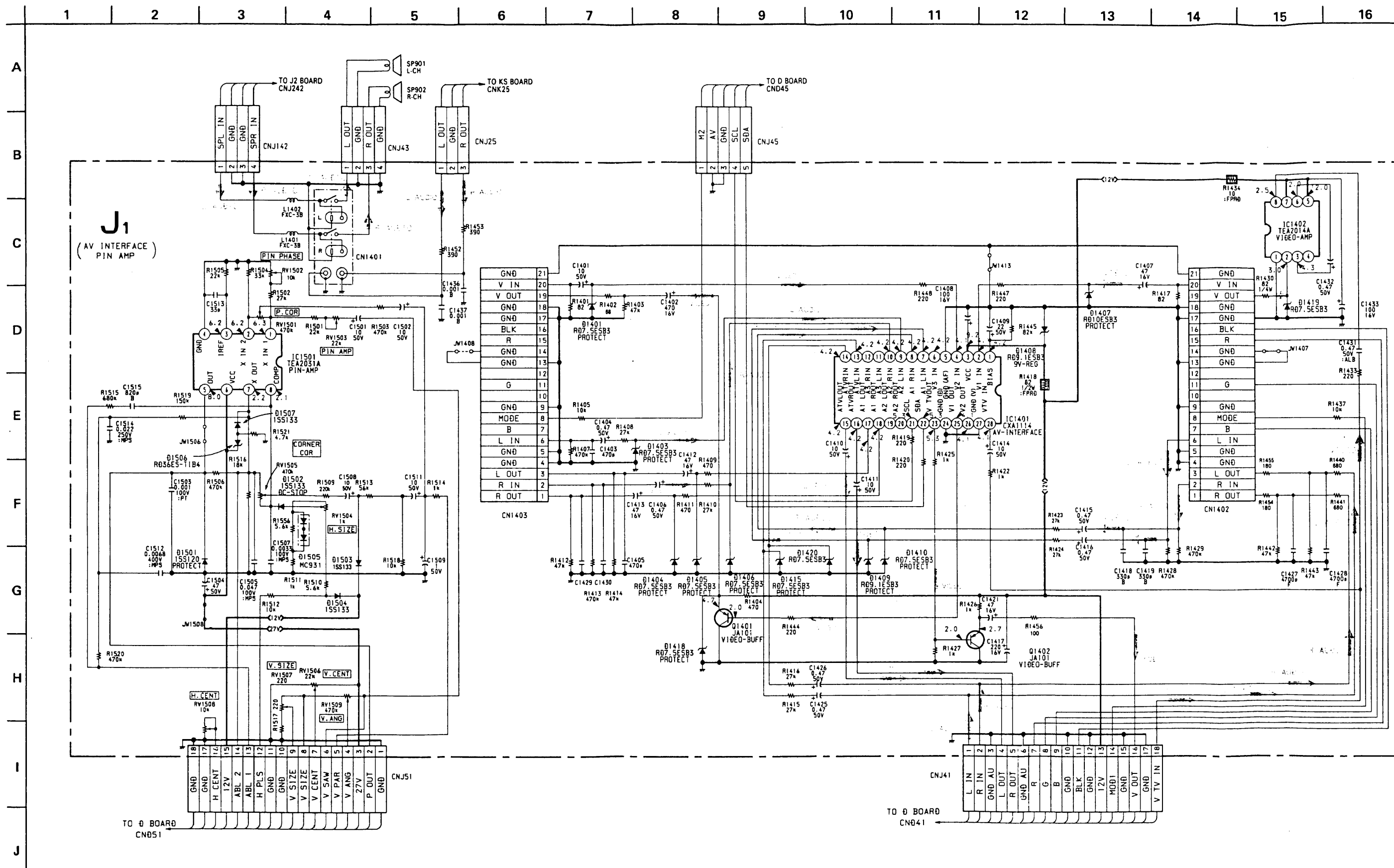


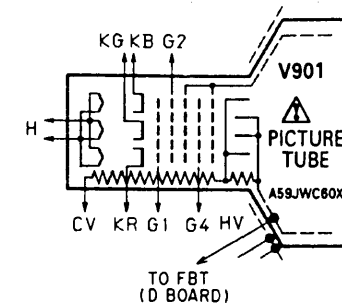
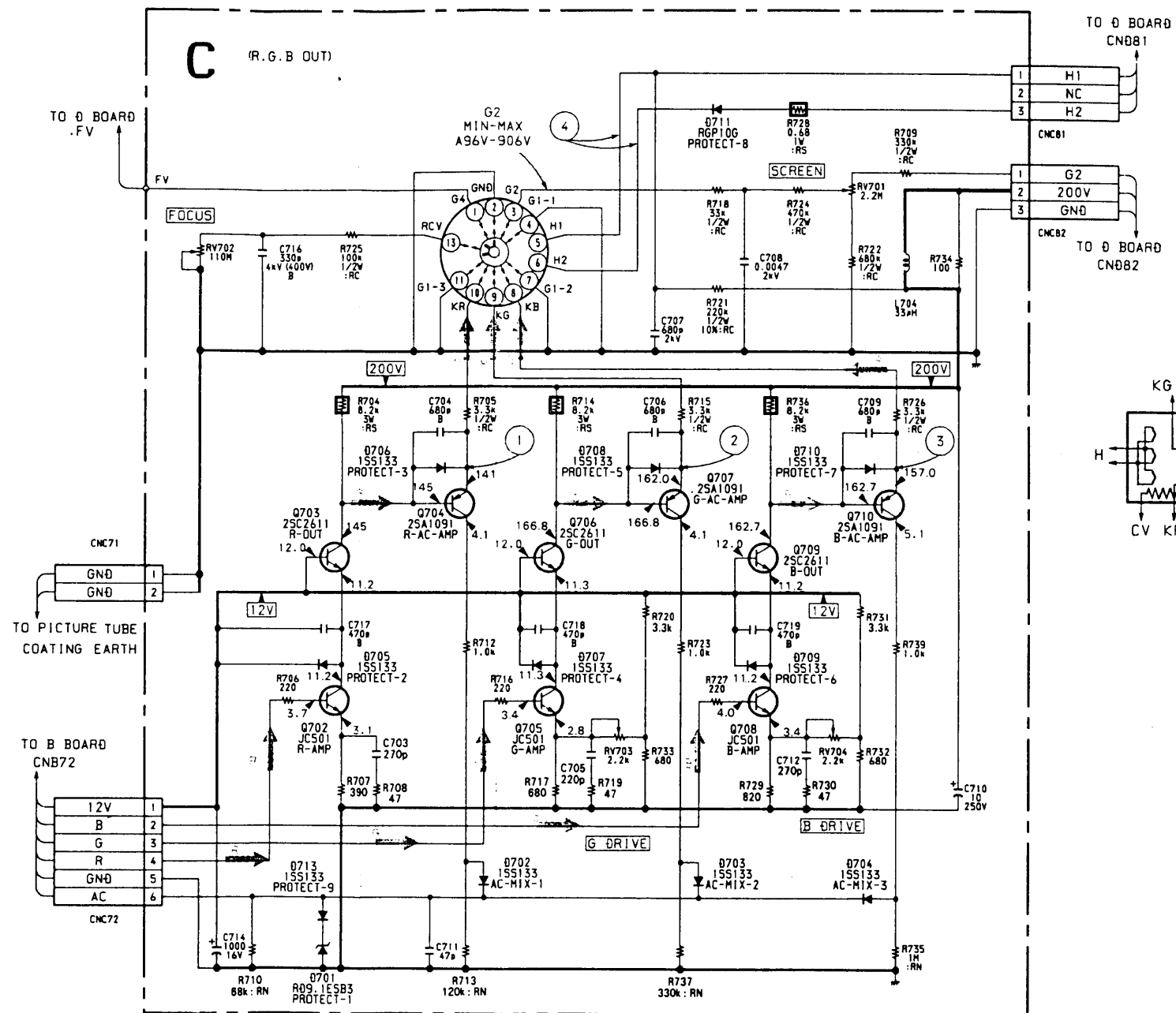
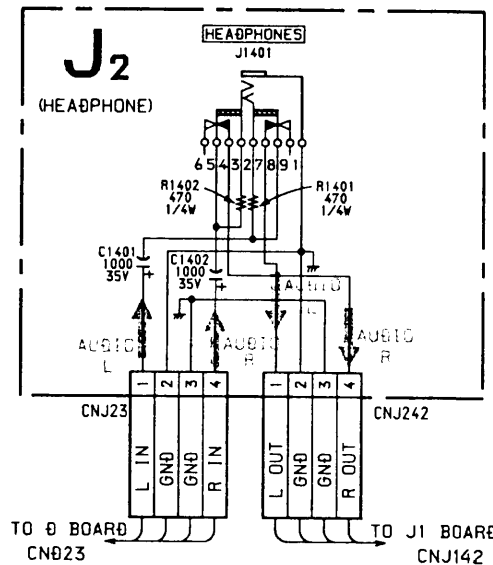
— B Board —



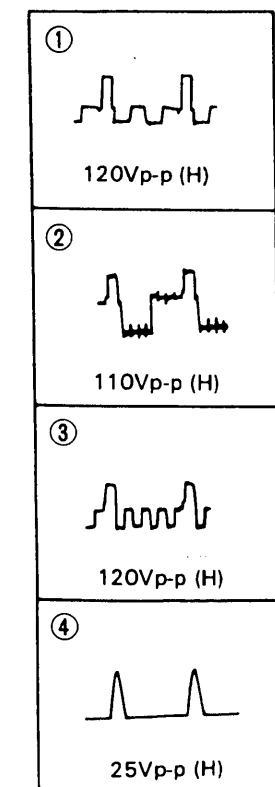
IC		DIODE	
IC301	E-4	D301	E-6
IC302	D-2	D302	E-5
IC331	B-5	D303	E-5
		D304	E-6
		D305	E-6
TRANSISTOR			
Q302	A-1	D307	E-3
Q303	E-1	D309	E-2
Q305	E-3	D331	C-4
Q306	A-1	D333	C-5
Q311	D-5	D341	C-5
		VARIABLE RESISTOR	
Q312	D-4	RV331	A-6
Q313	D-5		
Q316	D-5	CT331	C-6
Q331	B-4	CT332	D-6
Q332	C-6		
Q333	D-6		
Q334	B-3		
Q335	B-4		
Q336	B-2		
Q381	C-2		
Q382	C-3		
Q1316	B-2		

KV-X2521D
RM-673

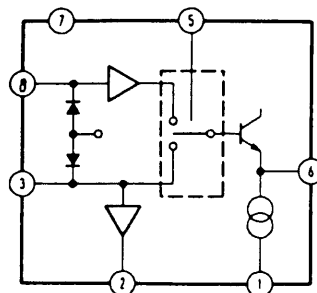




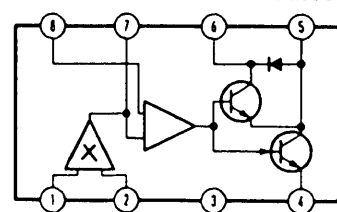
• C BOARD WAVEFORM



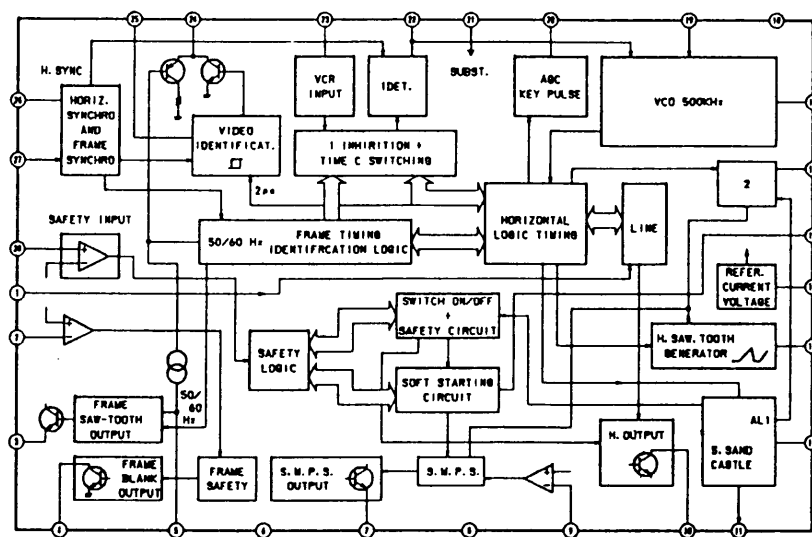
J1 BOARD IC1402 TEA2014A



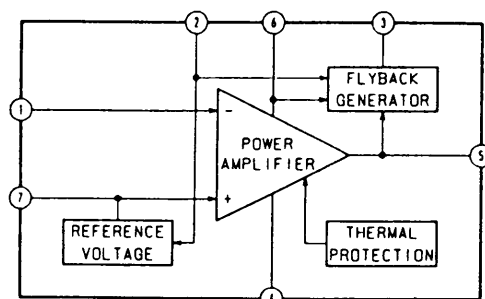
J1 BOARD IC1501 TEA2031A



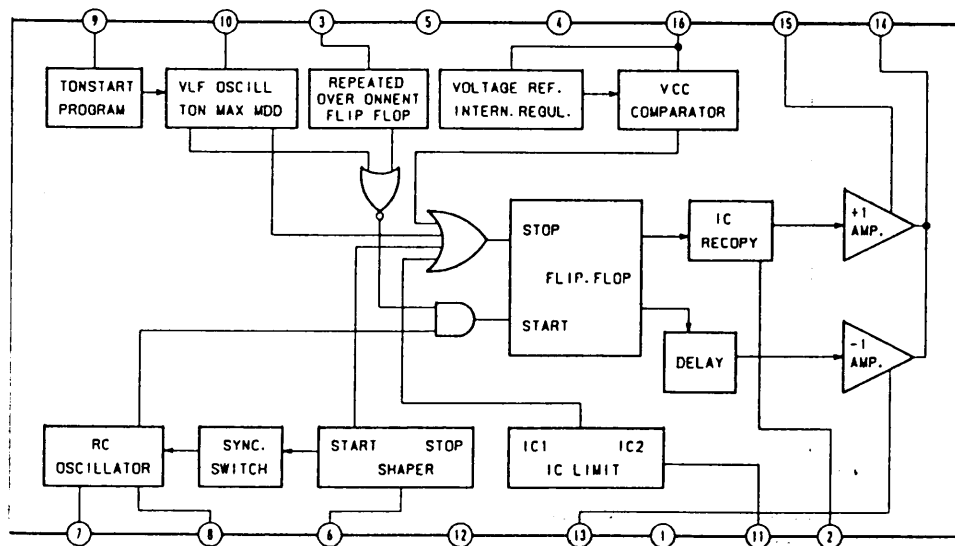
D BOARD IC501 TEA2028A



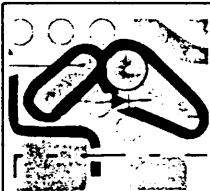
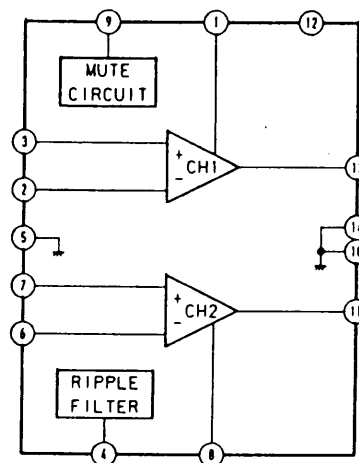
D BOARD IC502 TDA8170



D BOARD IC601 TEA2164



D BOARD IC251 LA4280

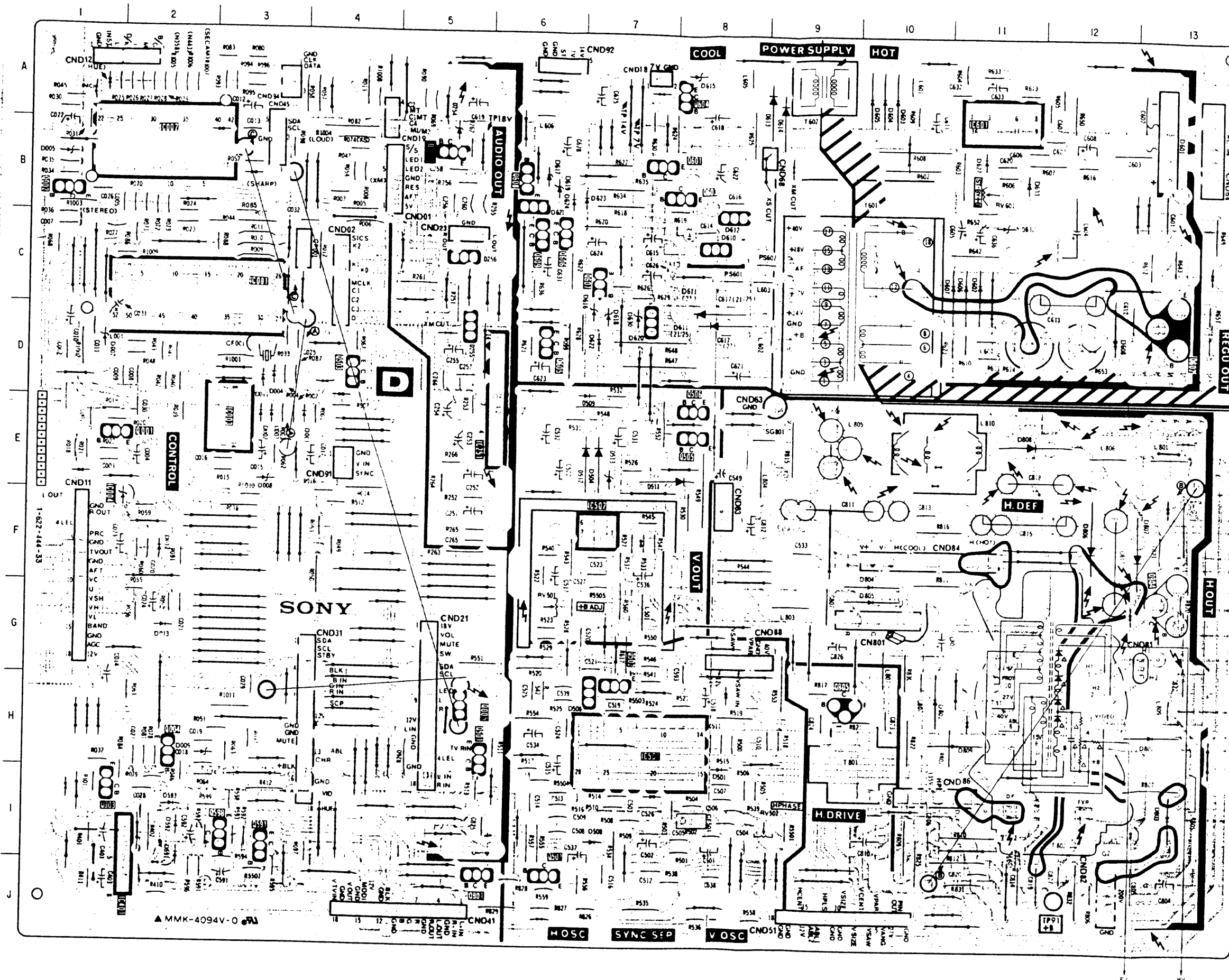


NOTE:

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

[AF OUT, Y-CHROMA,
JUNGLE, V-H DEF]

- D Board -



IC		DIODE	
IC001	D-3	D001	E-4
IC002	B-2	D002	E-3
IC003	E-3	D003	E-3
IC004	F-2	D004	D-3
IC251	E-6	D005	B-1
IC401		D007	D-1
IC501	H-7	D008	F-3
IC502	F-7	D009	I-3
IC601	B-11	D011	F-3
		D012	F-2
		D013	G-2
TRANSISTOR			
Q001	E-2	D254	B-5
Q002	B-1	D501	I-8
Q003	I-2	D504	E-7
Q004	H-2	D506	H-7
Q252	B-6	D508	I-7
Q501		D511	F-8
Q502	H-6	D512	E-7
Q503	H-7	D513	E-7
Q505	D-4	D591	J-2
Q506	E-8	D592	I-2
Q507		D593	I-2
Q591	J-6	D601	B-13
Q598	I-3	D602	C-11
Q601	I-3	D603	A-10
Q602	B-8	D604	A-10
		D605	A-10
Q603	B-8	D606	C-11
Q604	A-8	D607	C-11
Q605	D-6	D608	D-11
Q606	C-6	D610	C-8
Q607	C-7		
Q608		D611	D-8
Q609	C-6	D612	C-8
Q801	J-6	D613	A-9
Q804	G-13	D614	B-9
Q805	H-10	D615	A-8
		D616	D-7
		D617	B-6
		D618	D-7
		D619	B-6
		D620	D-8
		D621	C-6
		D622	D-7
		D623	C-7
		D624	C-7
		D627	B-11
		D630	D-7
		D632	C-11
		D633	C-11
		D801	H-11
		D802	H-13
		D803	I-13
		D804	G-10
		D805	G-10
		D806	F-12
		D808	E-12
		D809	H-11
VARIABLE RESISTOR			
RV501	G-6		
RV502	I-9		
RV601	B-11		

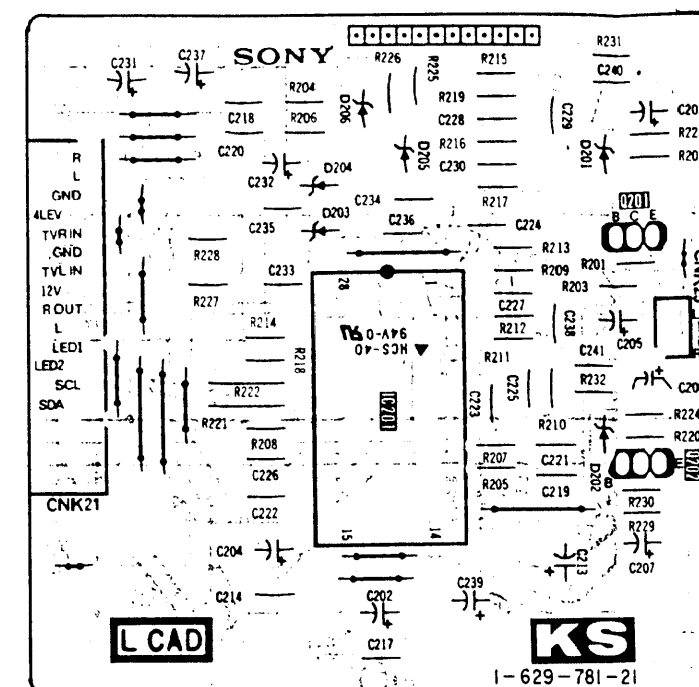
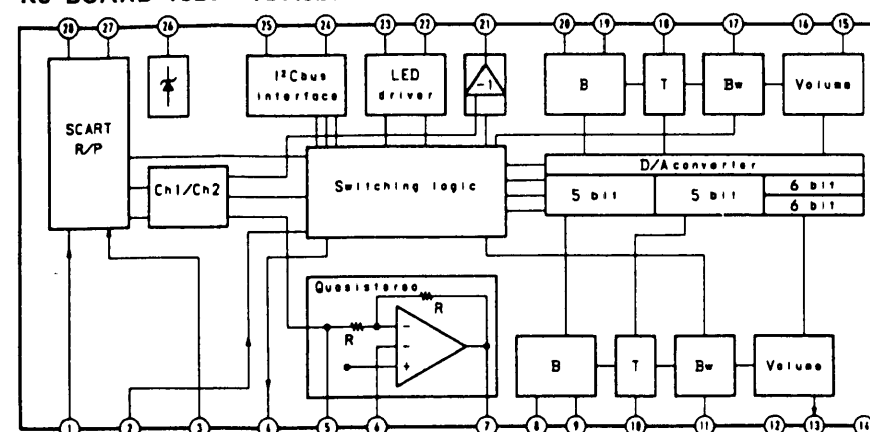
Ks

[AF INTERFACE]

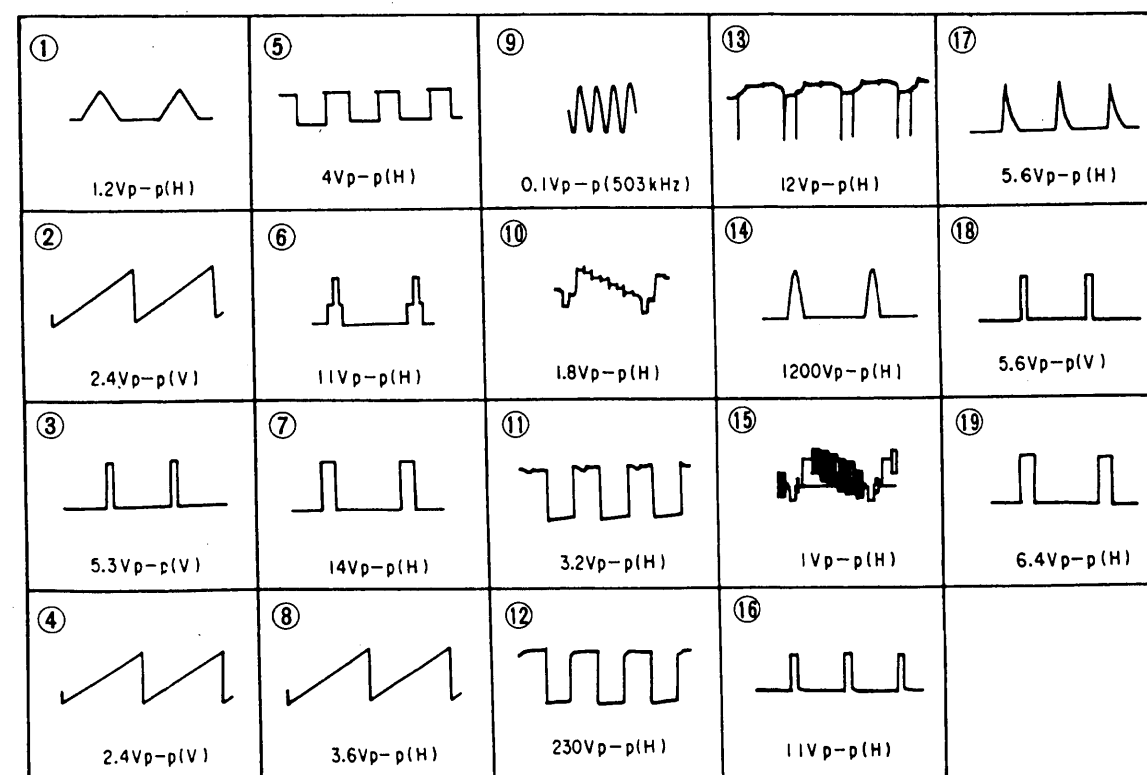
D

- KS Board -

KS BOARD IC201 TDA6200



• D BOARD WAVEFORM

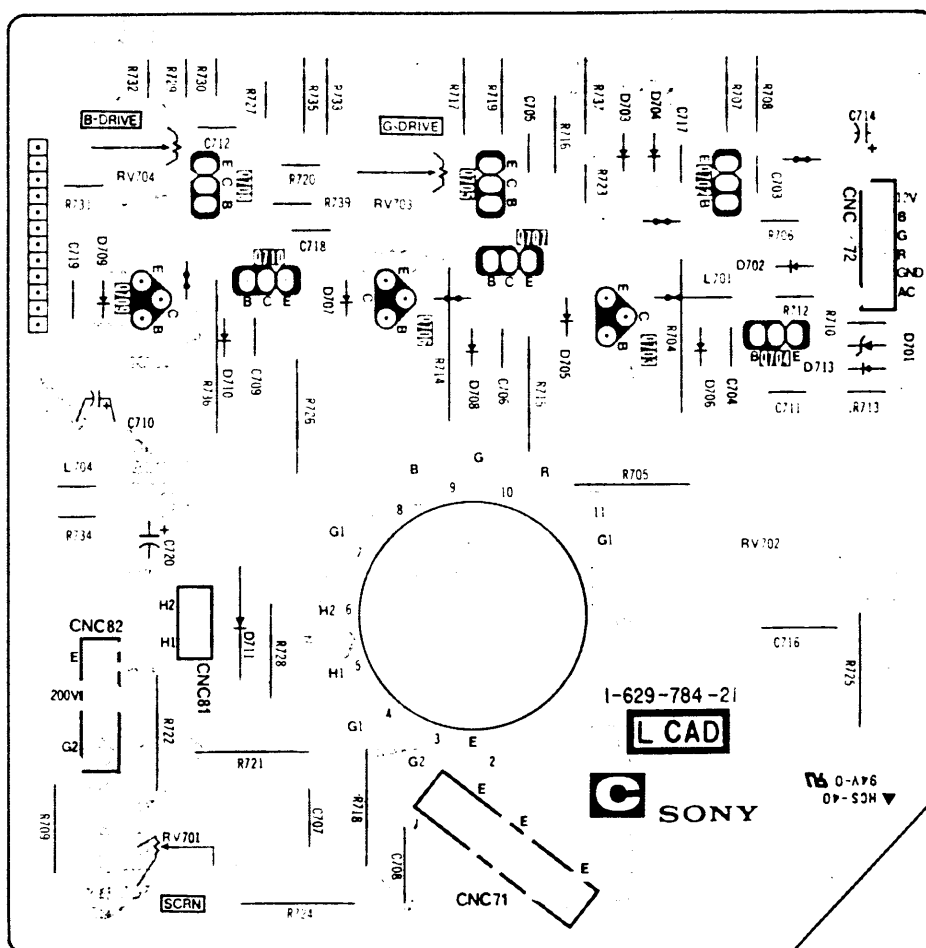


C [R-G-B OUT]

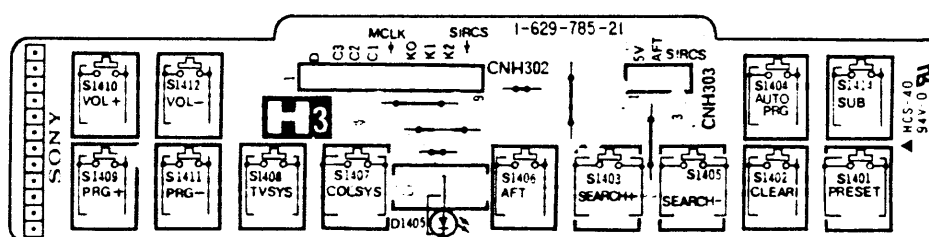
H3 [CUSTOMER
CONTROL]

H4 [REMOCON RECEIVER]

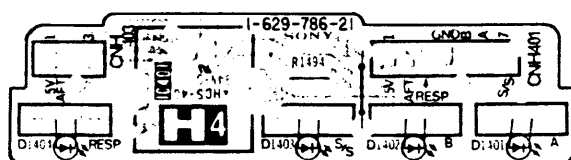
— C Board —



— H3 Board —

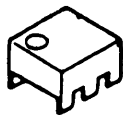


— H4 Board —

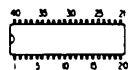


5-5. SEMICONDUCTORS

BX1387
SBX1483



SAA5243E
SDA5241



(Top view)

DTA114ES
DTA144ES
DTC114ES
DTC124ES
DTC144ES
2SA1048
2SA1175
2SC403SP
2SC1740SRT
2SC2458
2SC2603
2SC2710



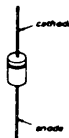
E C B

2SB740
2SC1475
2SD789



E C B

ERC06-15S
ERC25-06S
ERD29-08J



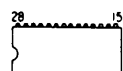
cathode
anode

MC921



1 2 3

CXA1114P
MAB8461P
SAA5231-V6
TDA4555
TDA4580
TDA6200
TDA6600
TEA2028B
TMM2063D



(Top view)

TBA129
TEA2014A
TEA2031A



(Top view)

TDA2556
TDA2558



(Top view)

DTC114EK
2SB815B6
2SC2712G



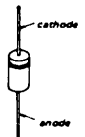
C B E

2SB1185
2SD1761



B C E

EQB01-11
ERC24-06S
ERD28-06S
ES1F
GP08DPKG23
RGP01-17PKG23
RGP10GPKG23
RGP15GPKG23
1SS168
1SS238
1S1555
10E2



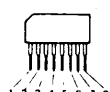
cathode
anode

MC931



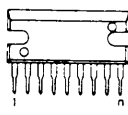
1 2 3

CX20061



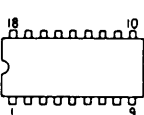
1 2 3 4 5 6 7 8

LA4280



1 2 3 4 5 6 7 8

TDA2595



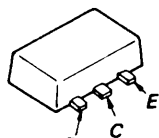
(Top view)

2SA933
2SA1091
JA101
JC501



E C B

2SC2873-Y



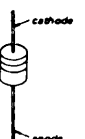
B C E

2SD1548
2SD1941



B C E

HZS39NB4TD
RD3.6ES-B2
RD3.9ES-B1
RD4.7ES-B1
RD5.6ES-B2
RD6.2ES-B2
RD6.8ES-B2
RD7.5ES-B3
RD9.1ES-B3
RD10ES-B3
RD15ES-B1
RD36ES-B4
RD39ES-B4
1SS119
1SS120
1SS133



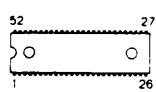
cathode
anode

U05G
V19E



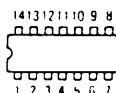
1 2 3

M50436-614SP



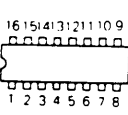
TOP VIEW

M58655P



(Top view)

TDA3541
TDA4510
TDA8442
TEA2162A
TEA2164



(Top view)

2SA1175
2SC2785



E C B

CTU-12S



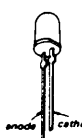
anode
cathode

KB04JL



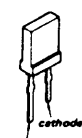
1 2 3

SE303AY



anode
cathode

SLP162B



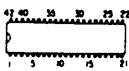
anode
cathode

SR632D



anode
cathode

MB88503H



(Top view)

TDA8170

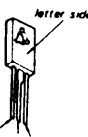


μPC574J



anode
cathode

2SA1220A
2SC2611
2SC2688
2SC2690A



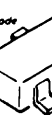
letter side
E C B

DAN-202K



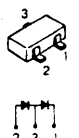
cathode
anode

DAP202K



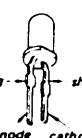
anode
cathode

MA3036H
MA3056M
MA3068M
MA3130L



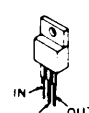
1 2 3

TLR124
LD201VR



long
short
anode
cathode

NJM7812B
μPC7812J

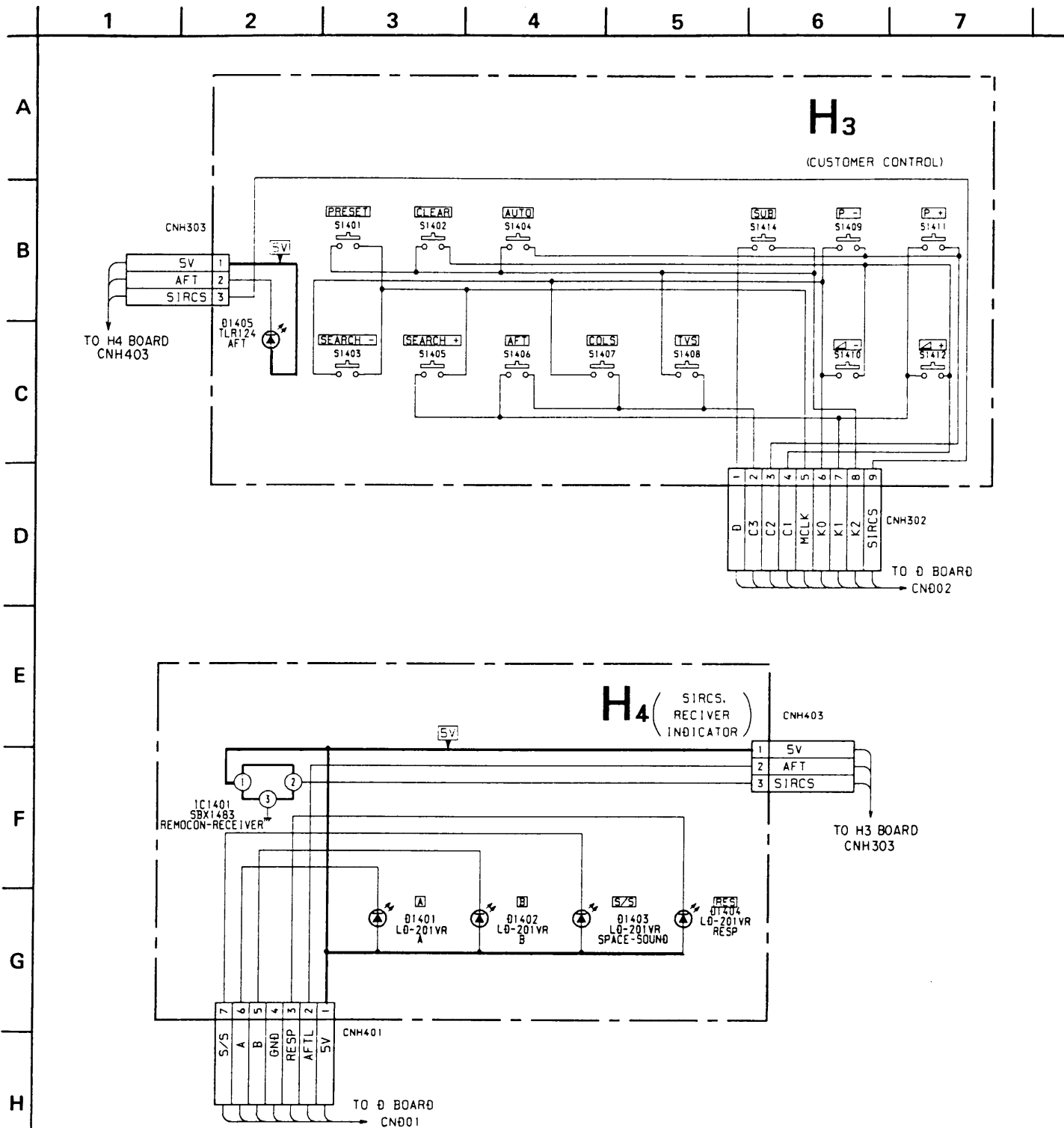


IN
GND
OUT

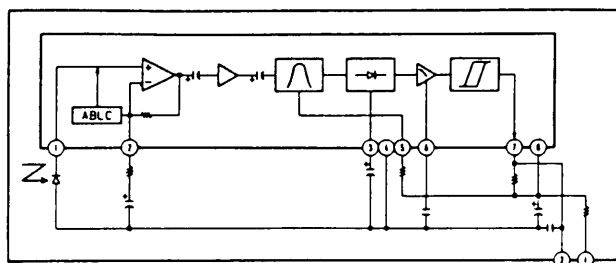
2SB734
2SC2958
2SD773
2SD774



E C B



H4 BOARD IC1401 SBX-1483



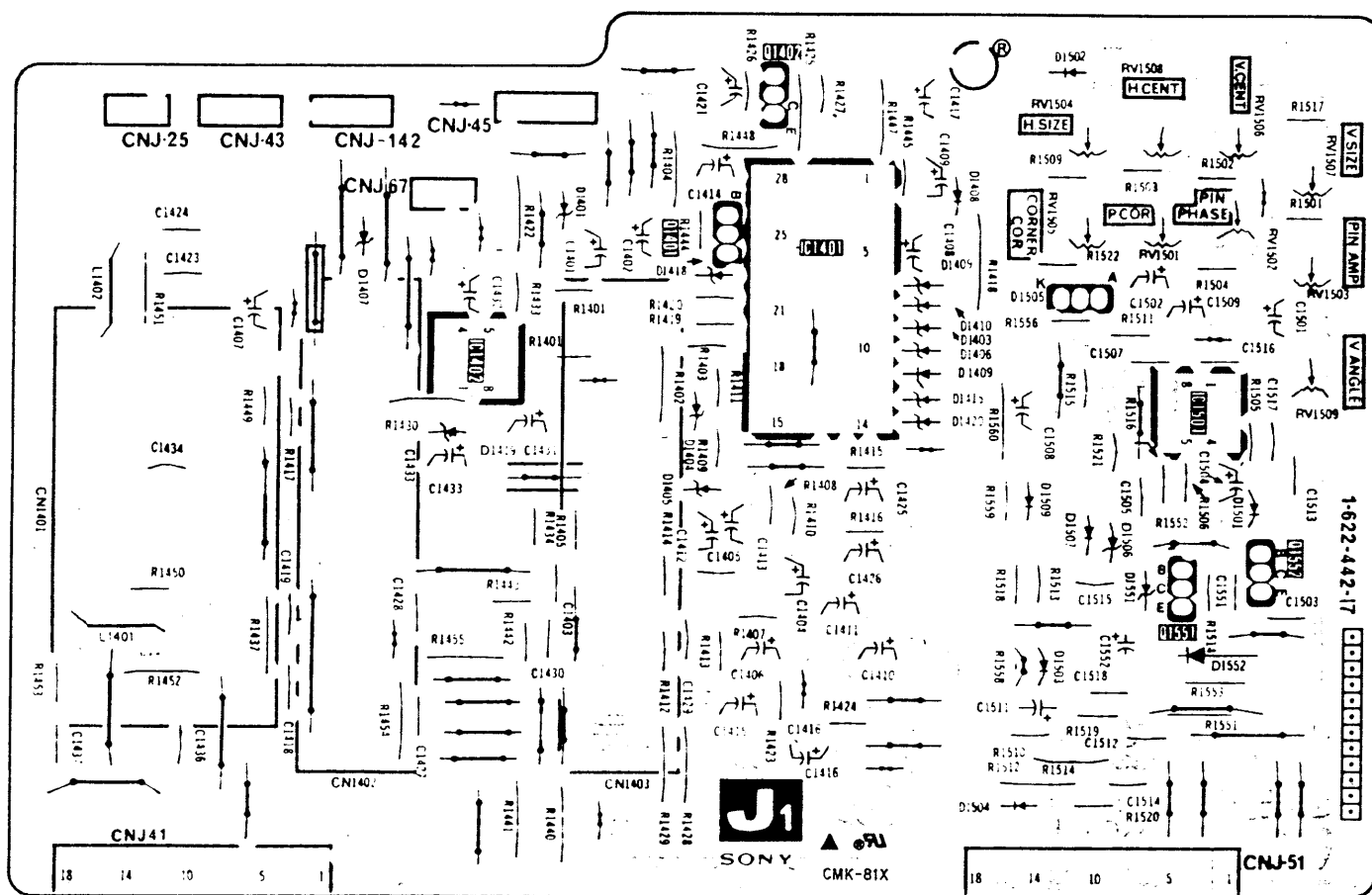
J1

[INTERFACE]

J2

[HEADPHONE JACK]

— J1 Board —



— J2 Board —

