

SONY

TRINITRON® COLOR TV BASIC SCHEMATIC DIAGRAM

KV-2553MT/RM-687C

Chassis No.: SCC-D06L

NOTE

THIS SCHEMATIC DIAGRAM IS FOR USE BY YOUR SERVICE
TECHNICIAN.

KEEP THIS DIAGRAM HANDY FOR FUTURE REFERENCE.

Sony Corporation

4-397-430-01

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Printed in Japan

HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CON-
NECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND Δ MARK
ON THE SCHEMATIC DIAGRAMS ARE CRITICAL TO
SAFE OPERATION. REPLACE THESE COMPONENTS
WITH SONY PARTS WHOSE PART NUMBERS APPEAR
AS SHOWN IN THE SERVICE MANUAL.

Note:

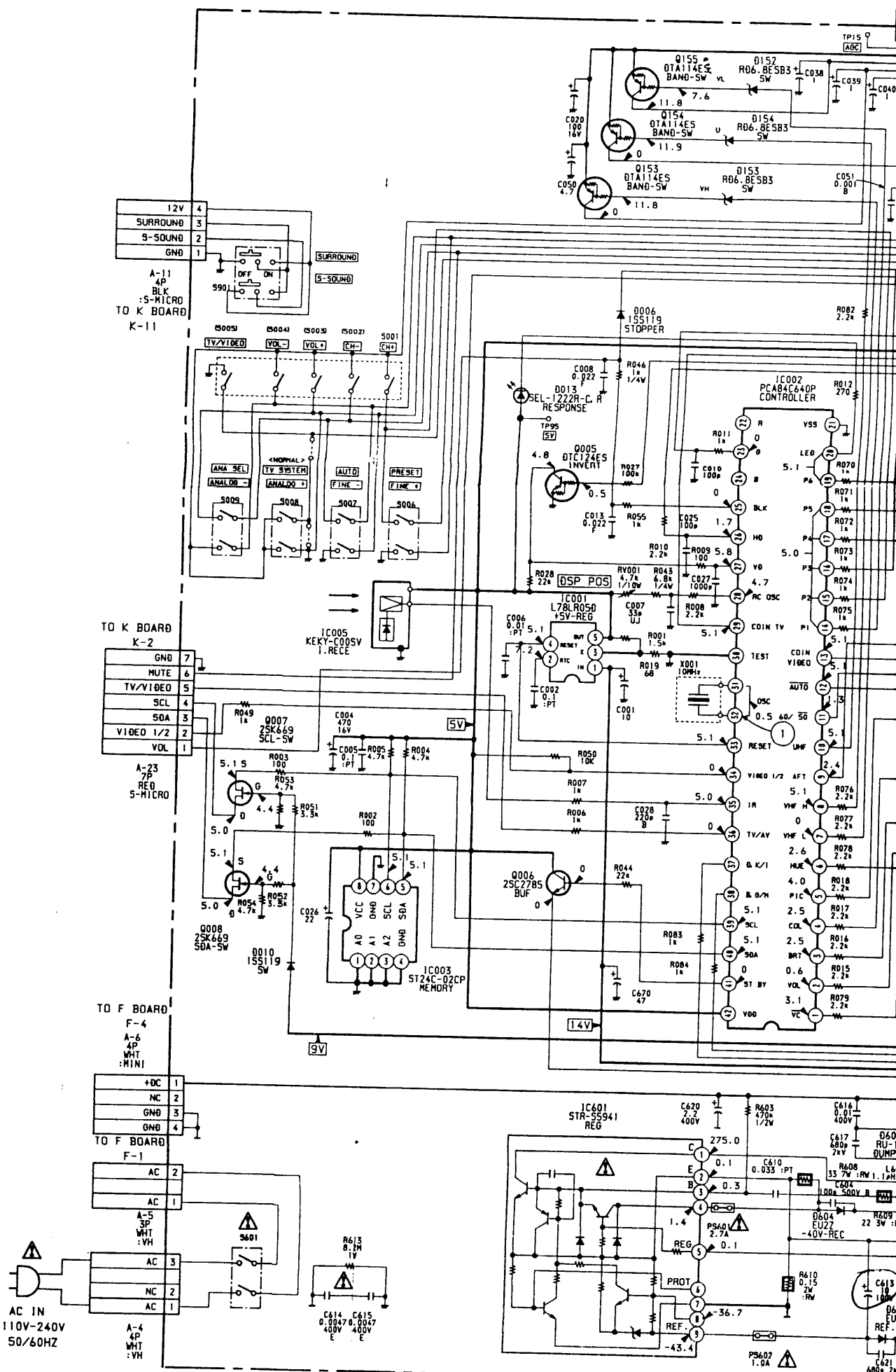
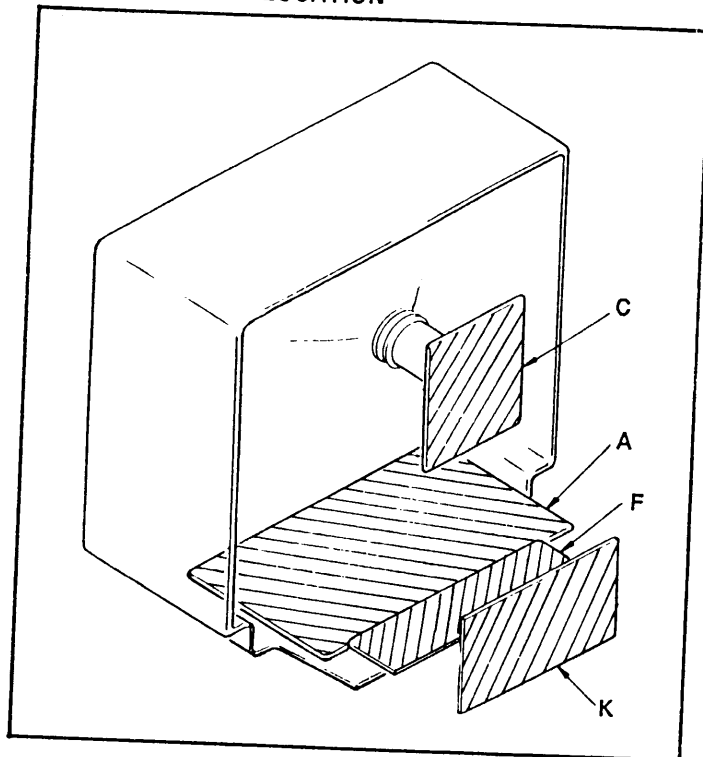
- All capacitors are in μ F unless otherwise noted.
50WV or less are not indicated except for electrolytics.
p: μ F
- Indication of resistance, which does not have one for
rating electrical power is as follows.
Pitch: 5mm, Rating electrical power: 1/4W
k Ω : 1000 Ω , M Ω : 1000k Ω
- All variable and adjustable resistors have characteristic
curve B, unless otherwise noted.
- \square : nonflammable resistor.
- \square : fusible resistor.
- \square : panel designation.
- \square : adjustment for repair.
- \square : B+ bus.
- \rightarrow : signal path.
- Voltag es are dc with respect to ground unless otherwise
noted.
- Readings are taken with a 10 M Ω digital multimeter.
- Voltage variations may be noted due to normal produc-
tion tolerances.
- Readings are taken with a color-bar-signal input.
no mark: with PAL color-bar signal received.
(): with SECAM color-bar signal received.
< > : with NTSC (4.43) color-bar signal received.
<< >> : with NTSC (3.58) color-bar signal received.

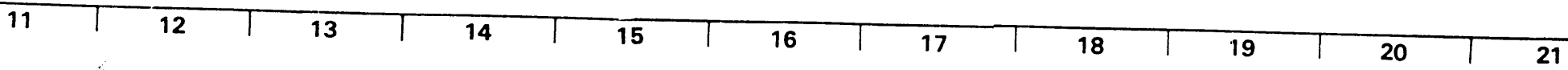
Note: The components identified by shading and mark
 Δ are critical for safety. Replace only with
part number specified.

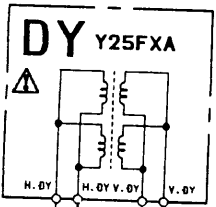
Reference information

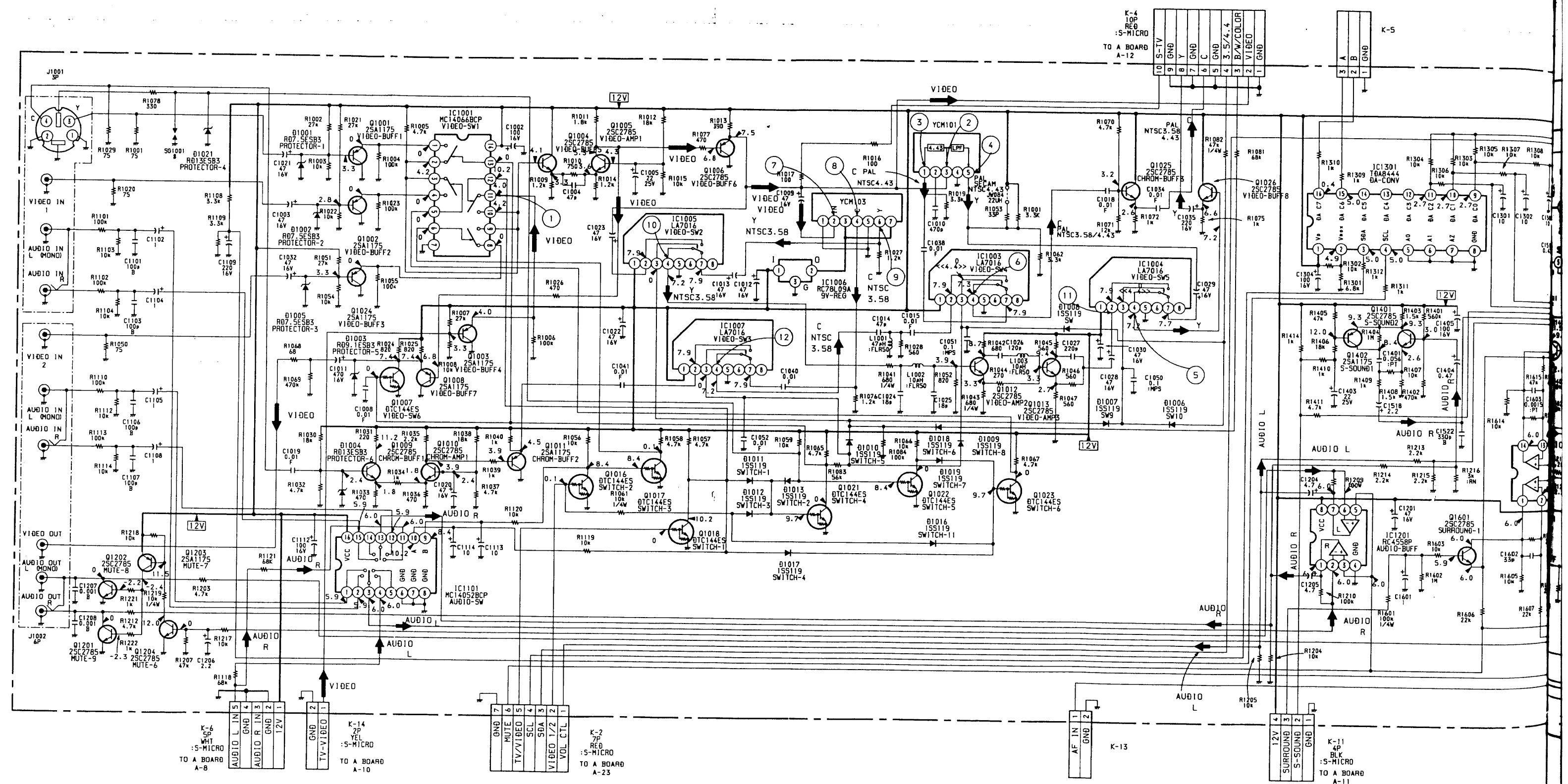
RESISTOR	RN	METAL FILM
	RC	SOLID
FUSE	FPRD	NONFLAMMABLE CARBON
	RS	NONFLAMMABLE WIREWOUND
COIL	RB	NONFLAMMABLE CEMENT
	LF-8L	MICRO INDUCTOR
CAPACITOR	TA	TANTALUM
	PS	STYROL
	PP	POLYPROPYLENE
	PT	MYLAR
	MPS	METALIZED POLYESTER
	MPP	METALIZED POLYPROPYLENE
	ALB	BIPOLAR
	ALT	HIGH TEMPERATURE
	ALR	HIGH RIPPLE

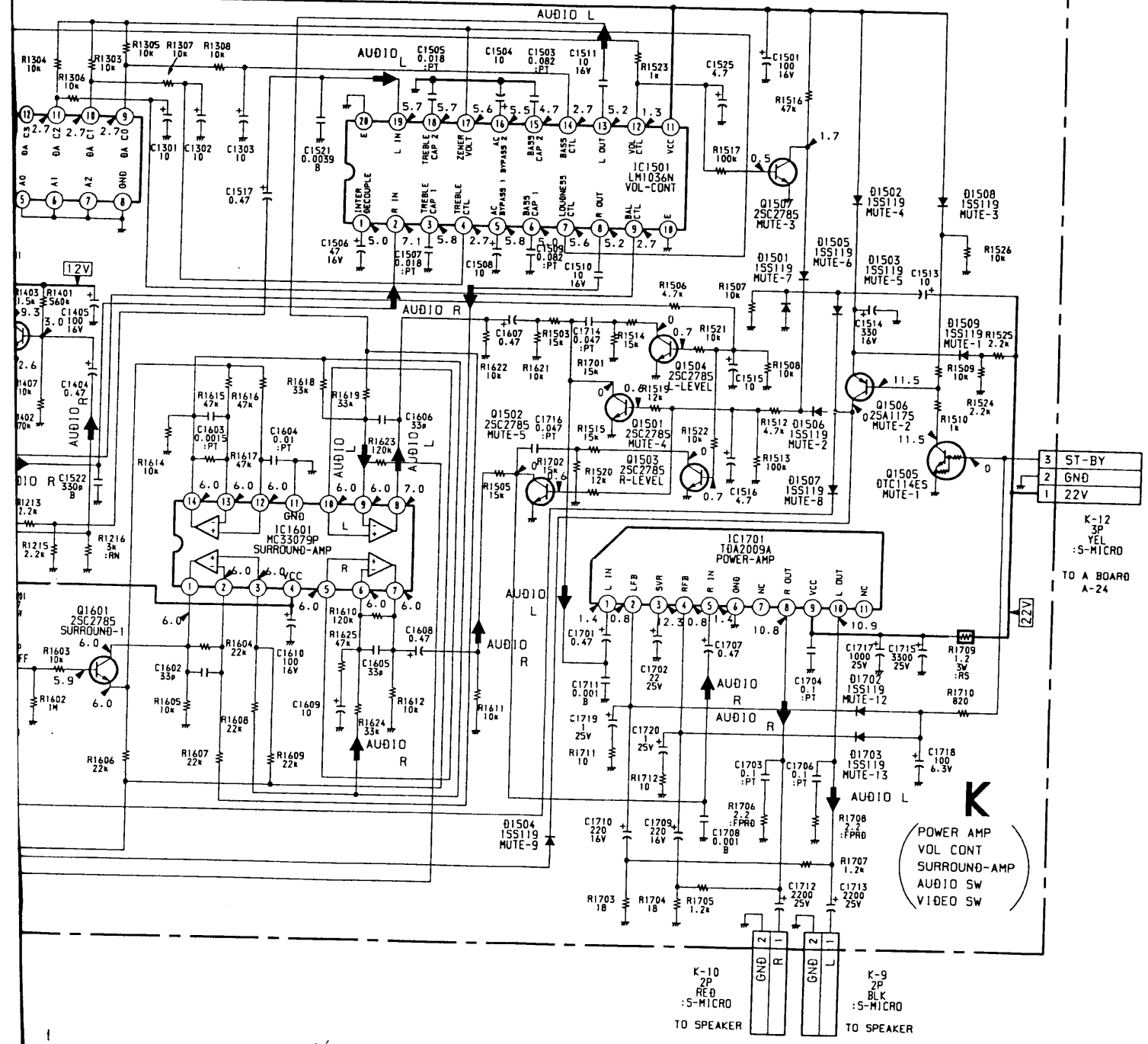
CIRCUIT BOARDS LOCATION

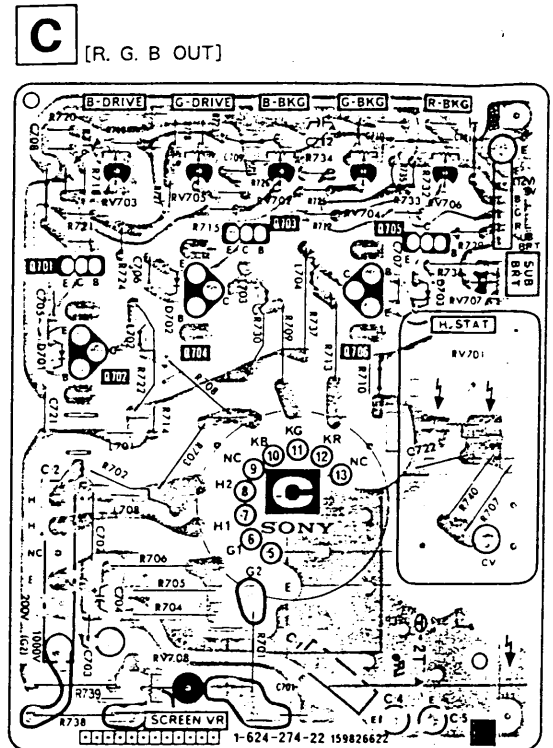
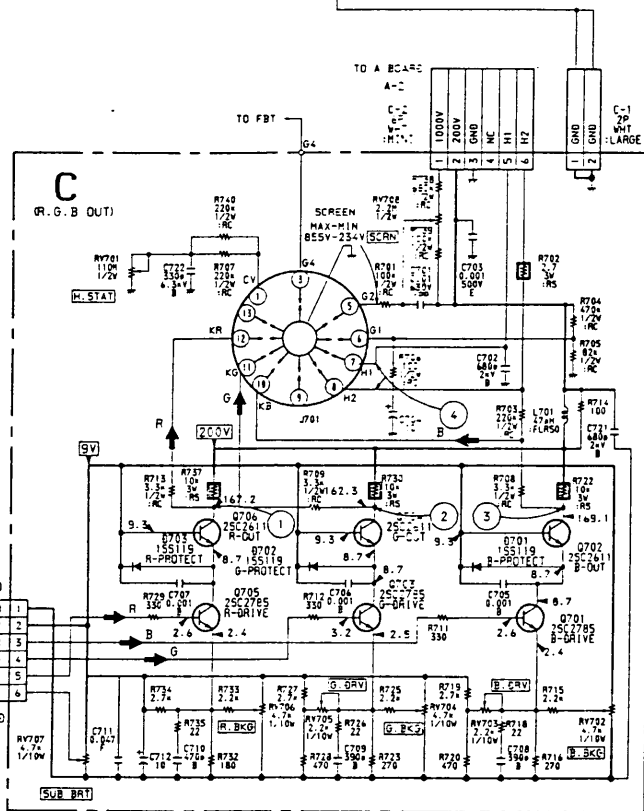




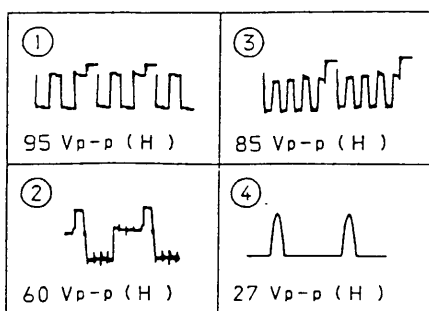






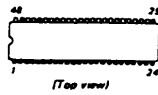


- C BOARD WAVEFORMS

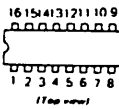


SEMICONDUCTORS

CXA1213S



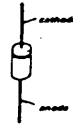
MC14052BCP
TDA8444



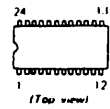
DTA114ES
DTC114ES
DTC124ES
DTC144ES



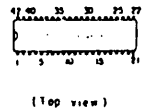
EU2Z
ES1F-V1
GP08DPKG23
RGP10GPKG23



CXA1214P



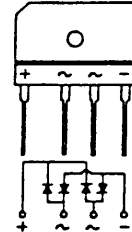
PCA84C640P-016



2SA1175
2SC2785



KBU4JL-6088



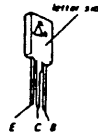
HZT33-02TE



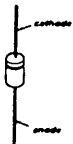
RC4558P
ST24C02CP



2SA1220A-P
2SC2611
2SC2688



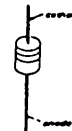
LA7016



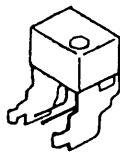
RC78L09A



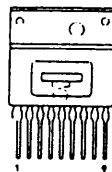
RD5.1ES-T1B2
RD5.6ES-T1B2
RD6.2ES-T1B2
RD6.8ES-T1B3
RD7.5ES-T1B3
RD9.1ES-T1B3
RD10ES-T1B2
RD10ES-T1B3
RD13ES-T1B3
1SS119



KEY-C00SV



STR-S5941



2SA1221
2SB734
2SC2958
2SD1941
2SD774



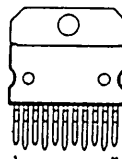
S2LA20



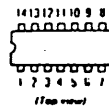
2SK669



TDA2009A



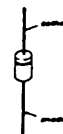
MC14066BCP
MC33079



TEA2031A



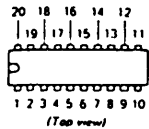
EGP20G-PKG23
ERC06-15S
RU-1P
RU-3AM



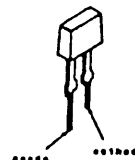
5P4M



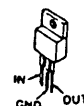
LM1036N



SEL1222R-C, D



μPC7812H



ERD29-08J






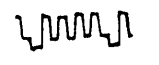

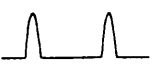

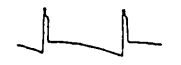




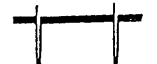





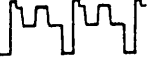







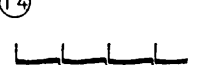

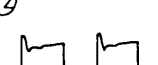
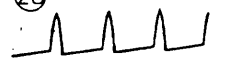
L78LR05D-MA

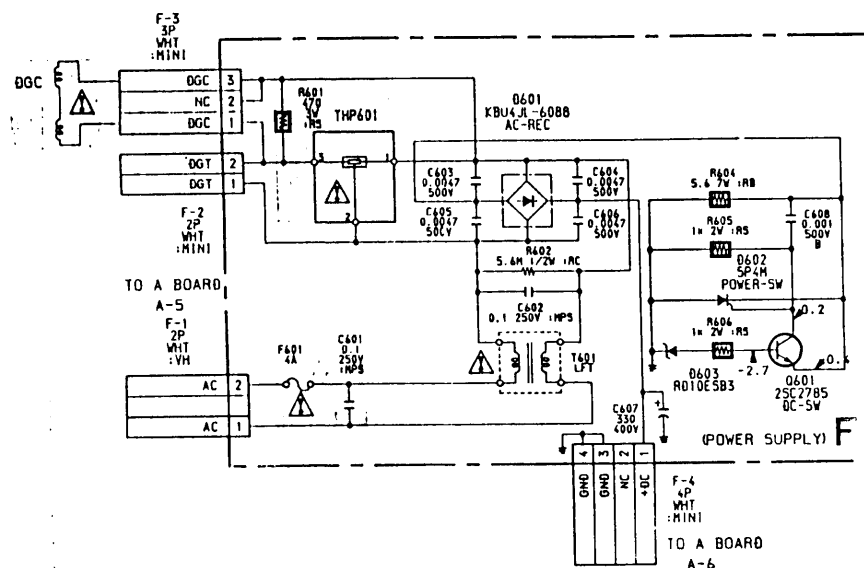


μPC1498H
μPC7893HF

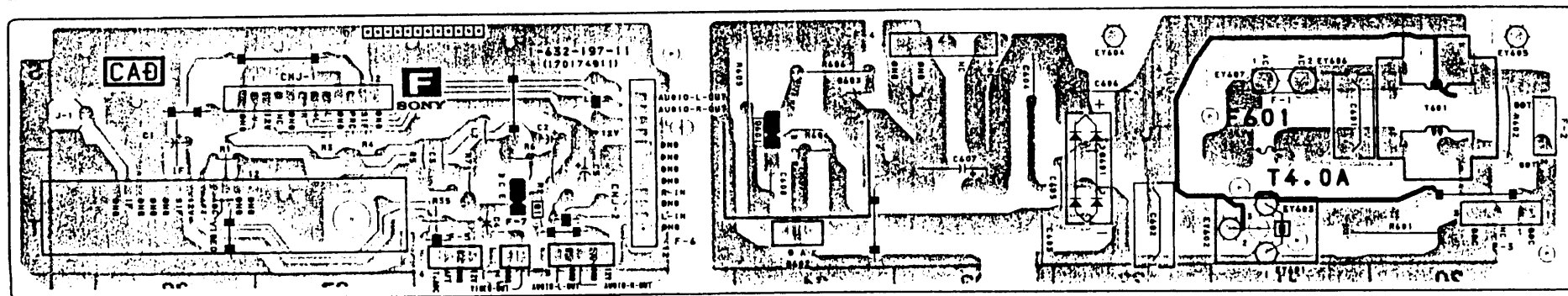


• A BOARD WAVEFORMS

①  1.5Vp-p (10MHz)	③  NTSC3.58, 4.43 1.2Vp-p (H)	⑦  0.3Vp-p (4.43MHz)	⑪  4.8Vp-p (H)	⑮  3.2Vp-p (H)	⑲  900 Vp-p (H)	⑲  SECAM 0.9Vp-p (H)	⑳  60 Vp-p (V)
②  0.9Vp-p (H)	④  0.35 Vp-p (H)	⑧  0.2Vp-p (3.58MHz)	⑫  1.3Vp-p (H)	⑯  1.4Vp-p (V)	⑳  17 Vp-p (H)	㉒  SECAM 1 Vp-p (H)	㉔  180 Vp-p (H)
③  PAL 0.8Vp-p (H)	⑤  0.9Vp-p (H)	⑨  4.8Vp-p (H)	⑬  1.4Vp-p (H)	⑰  2.3Vp-p (V)	㉑  100Vp-p (H)	㉓  SECAM 1.4Vp-p (H)	
③  SECAM 0.5Vp-p (H)	⑥  0.7Vp-p (H)	⑩  2.8Vp-p (H)	⑭  2 Vp-p (V)	⑱  28 Vp-p (H)	㉒  1.4 Vp-p (H)	㉔  3.6Vp-p (H)	



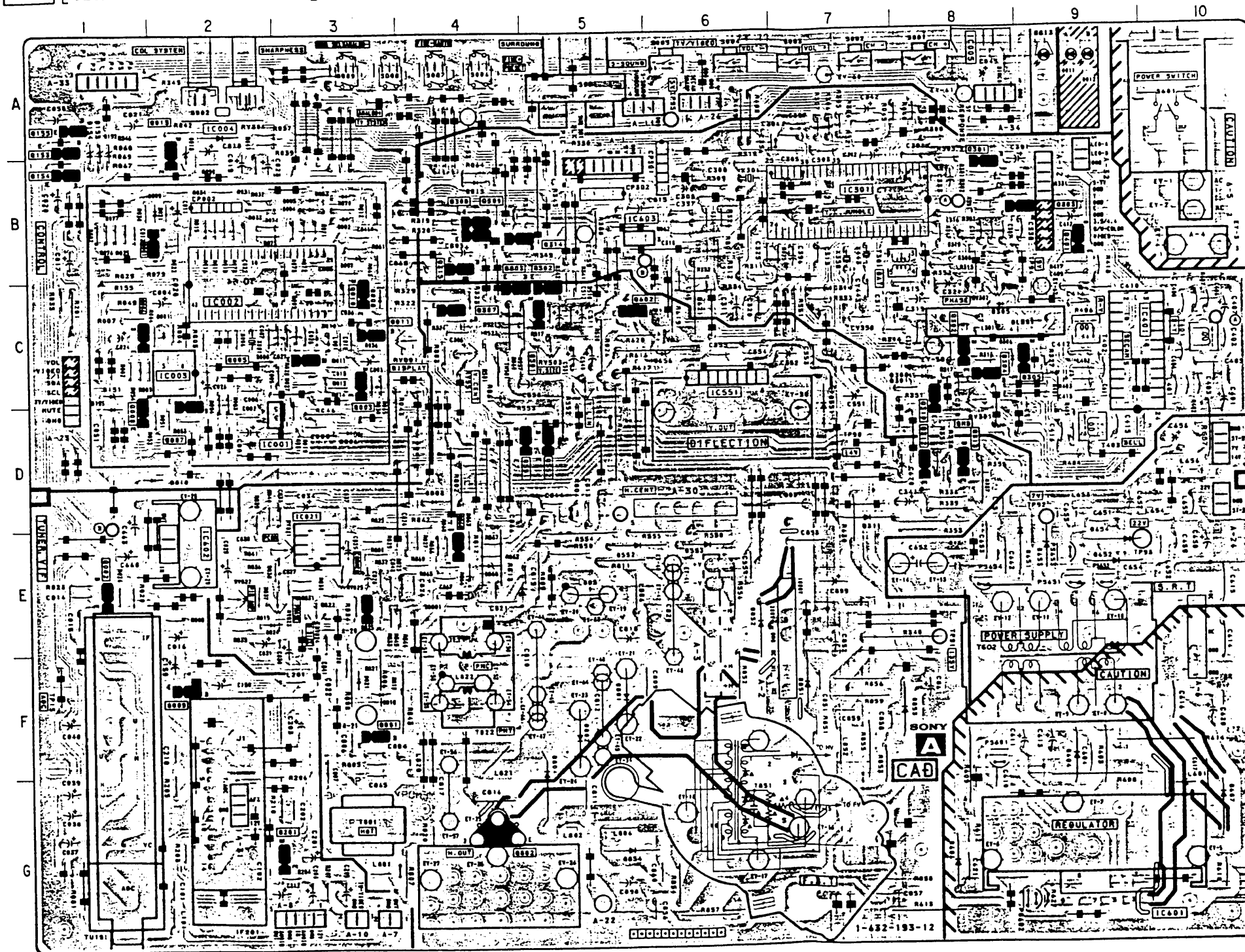
F [POWER SUPPLY]



PRINTED WIRING BOARDS













Note: All mounting diagrams are viewed from conductor side.

A SYSTEM CONTROL, MEMORY, Y/C-JUNGLE, SYSTEM SW, SECAM DECODER, H.V. OUT



IC			
IC001	D-2	D013	A-9
IC002	C-2	D018	A-2
IC003	C-2	D019	B-4
IC004	A-2	D151	C-1
IC005	A-8	D152	A-1
IC301	B-7	D153	A-1
IC401	C-9	D154	A-1
IC551	C-6	D155	D-1
IC601	G-9	D300	C-8
IC602	E-2	D301	C-8
IC603	B-5	D305	C-8
IC821	D-3	D306	C-8
		D310	B-8
		D311	D-7
		D551	D-7
		D552	E-5
		D553	E-6
		D604	G-9
		D606	G-8
		D607	G-10
		D651	E-8
		D652	E-9
		D653	E-9
		D654	E-9
		D656	C-6
		D801	F-5
		D802	F-5
		D803	D-4
		D804	F-5
		D810	F-3
		D821	F-3
		D822	E-3
		D823	E-3
		D824	E-2
		D825	E-3
		D851	F-7
		D852	E-6
		D853	F-8
		D854	G-5
		D860	E-4
TRANSISTOR		VARIABLE RESISTOR	
Q001	B-1	RV001	C-3
Q002	E-1	RV301	D-8
Q003	C-3	RV302	B-8
Q005	C-3	RV304	A-2
Q006	C-1	RV502	C-5
Q007	D-2	RV503	C-5
Q008	D-1	RV551	C-4
Q010	C-3	RV821	E-3
Q011	C-3	RV822	E-2
Q013	A-2	RV823	E-2
Q153	A-1	RV824	E-3
Q154	B-1	RV825	E-3
Q201	G-3		
Q301	B-8		
Q302	C-8		
Q303	B-9		
Q304	C-8		
Q305	C-9		
Q307	C-4		
Q308	B-4		
Q309	B-4		
Q310	D-8		
Q312	D-8		
Q313	D-8		
Q314	B-5		
Q315	B-4		
Q401	B-9		
Q501	C-5		
Q502	C-5		
Q551	D-4		
Q552	D-5		
Q602	C-5		
Q801	F-3		
Q802	G-4		
Q803	C-4		
Q860	E-4		
DIODE			
D006	D-3		
D007	C-3		
D008	C-3		
D009	B-2		
D010	D-1		

• K BOARD WAVEFORMS

①  1.0Vp-p (H)	⑦ NTSC3.58  2.0Vp-p (H)
②  2.0Vp-p (H)	⑧ NTSC3.58  2.0Vp-p (H)
③ PAL/NTSC4.43  0.4Vp-p (H)	⑨ NTSC3.58  2.0Vp-p (H)
④ PAL/SECAM/NTSC4.43  1.0Vp-p (H)	⑩ NTSC3.58  2.0Vp-p (H)
⑤  1.0Vp-p (H)	⑪ NTSC3.58  1.0Vp-p (H)
⑥ PAL/NTSC3.58 4.43  0.4Vp-p (H)	⑫ NTSC3.58  2.0Vp-p (H)

