

SONY.

TRINITRON® COLOR TV **BASIC SCHEMATIC DIAGRAM**

KV-2964MT/RM-687C

Chassis No. SCCD06H

KV-2964MTT/RM-687CT

Chassis No. SCCD06E

NOTE

**THIS SCHEMATIC DIAGRAM IS FOR USE BY YOUR SERVICE
TECHNICIAN.**

KEEP THIS DIAGRAM HANDY FOR FUTURE REFERENCE.

3-751-114-01

Sony Corporation

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Printed in Japan

SCHEMATIC DIAGRAMS

WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED
DURING ANY SERVICE TO AVOID POSSIBLE SHOCK
HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CON-
NECTED TO THE AC POWER LINE.

F

G

H

I

J

K

L

M

N

O

P

Q

R

S

T

SAFETY-RELATED COMPONENT WARNING!!
COMPONENTS IDENTIFIED BY SHADING AND  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:

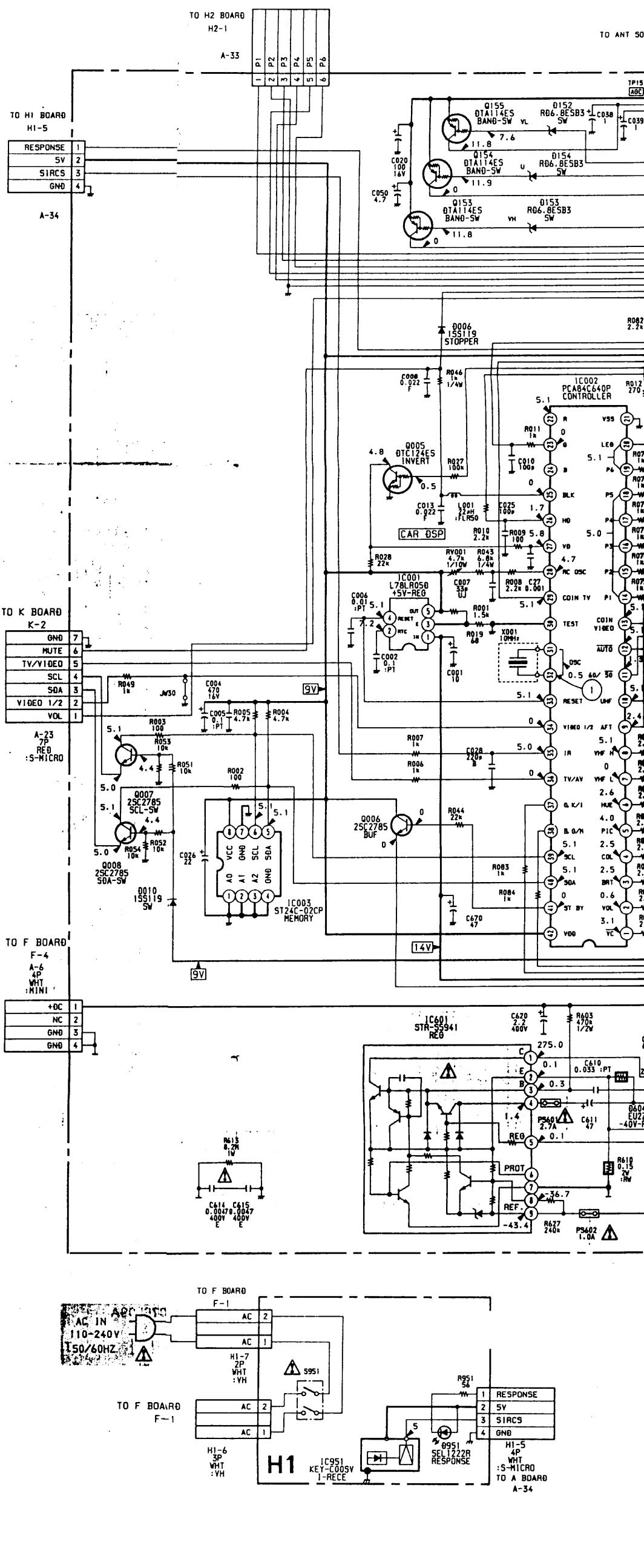
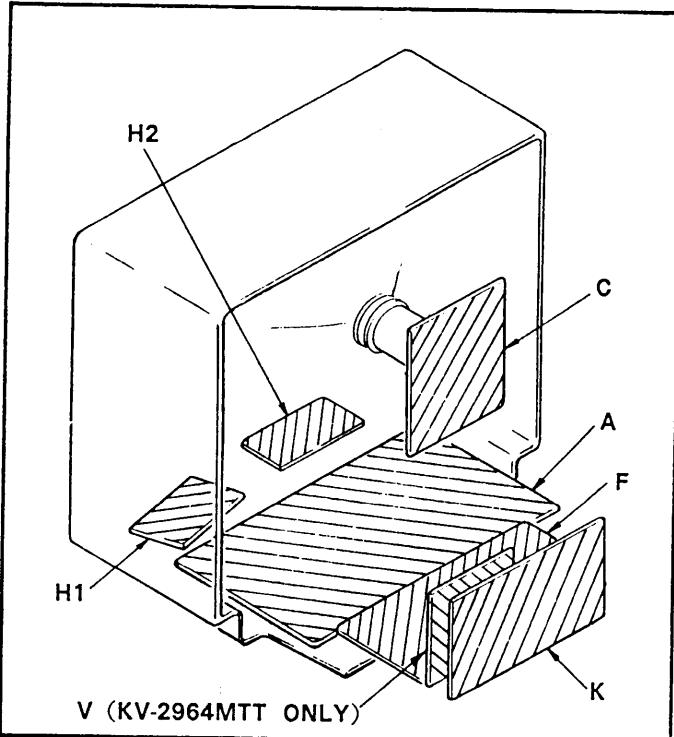
- All capacitors are in μF unless otherwise noted.
50WV or less are not indicated except for electrolytics.
 μ : μF
 - Indication of resistance, which does not have one for rating electrical power is as follows.
- | |
|---|
| Pitch: 5mm, Rating electrical power: 1/4W |
| $k\Omega$: 1000 Ω , M Ω : 1000k Ω |
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
 -  : nonflammable resistor.
 -  : fusible resistor.
 -  : panel designation.
 -  : adjustment for repair.
 -  : B+ bus.
 -  : signal path.
 - Voltages 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 production 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.
 $\ll \gg$: with NTSC (3.58) color-bar signal received.

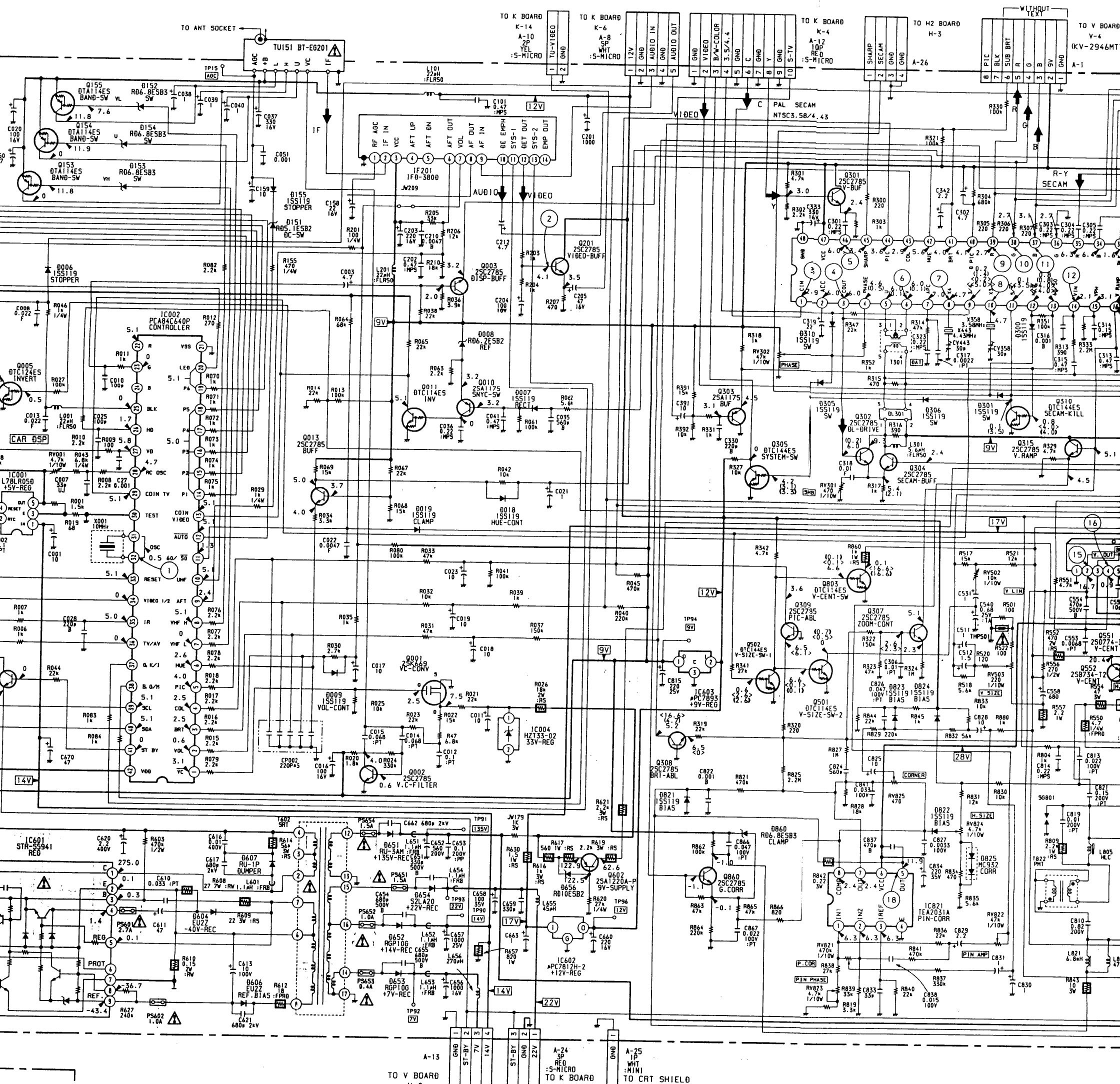
Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

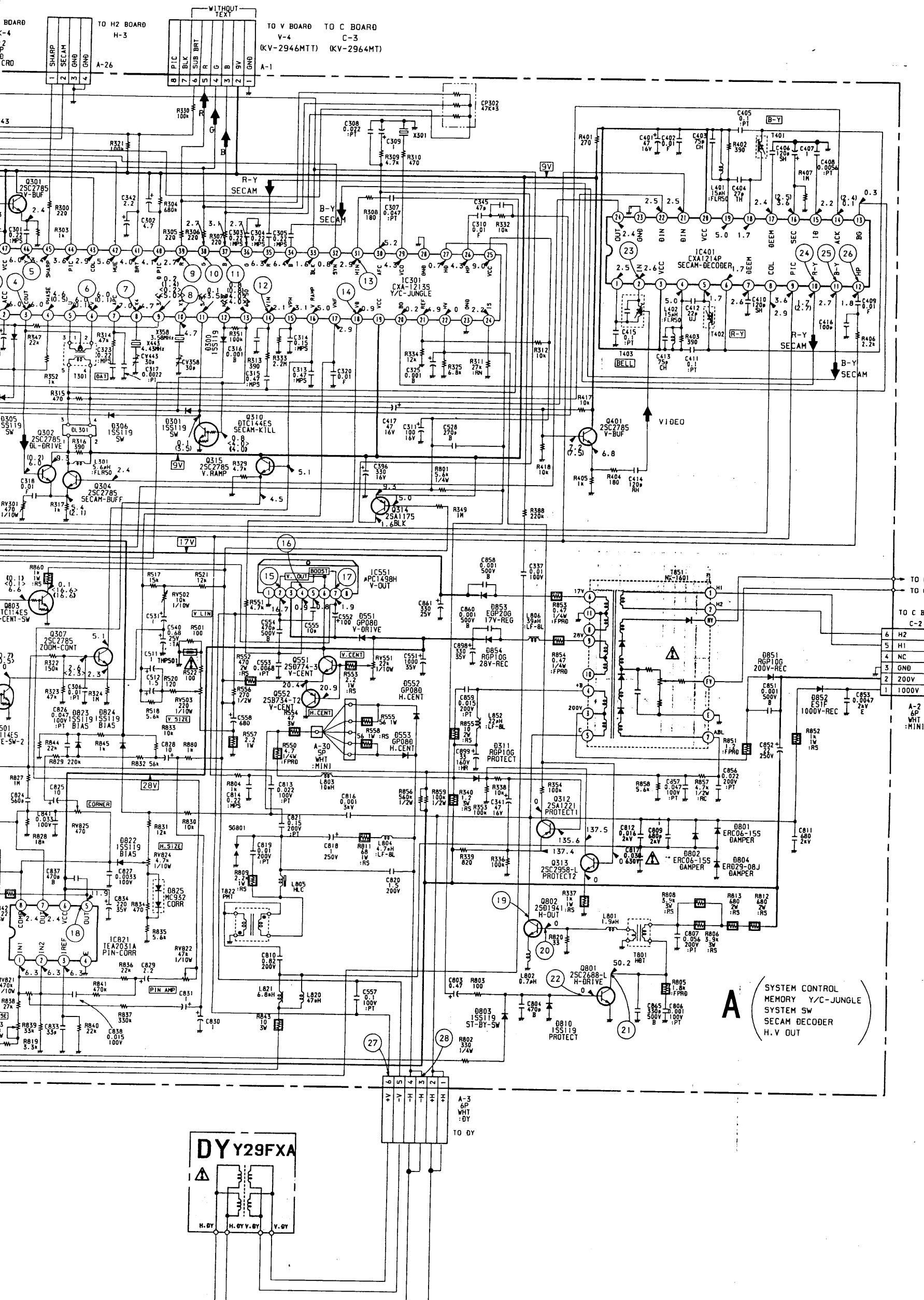
Reference information

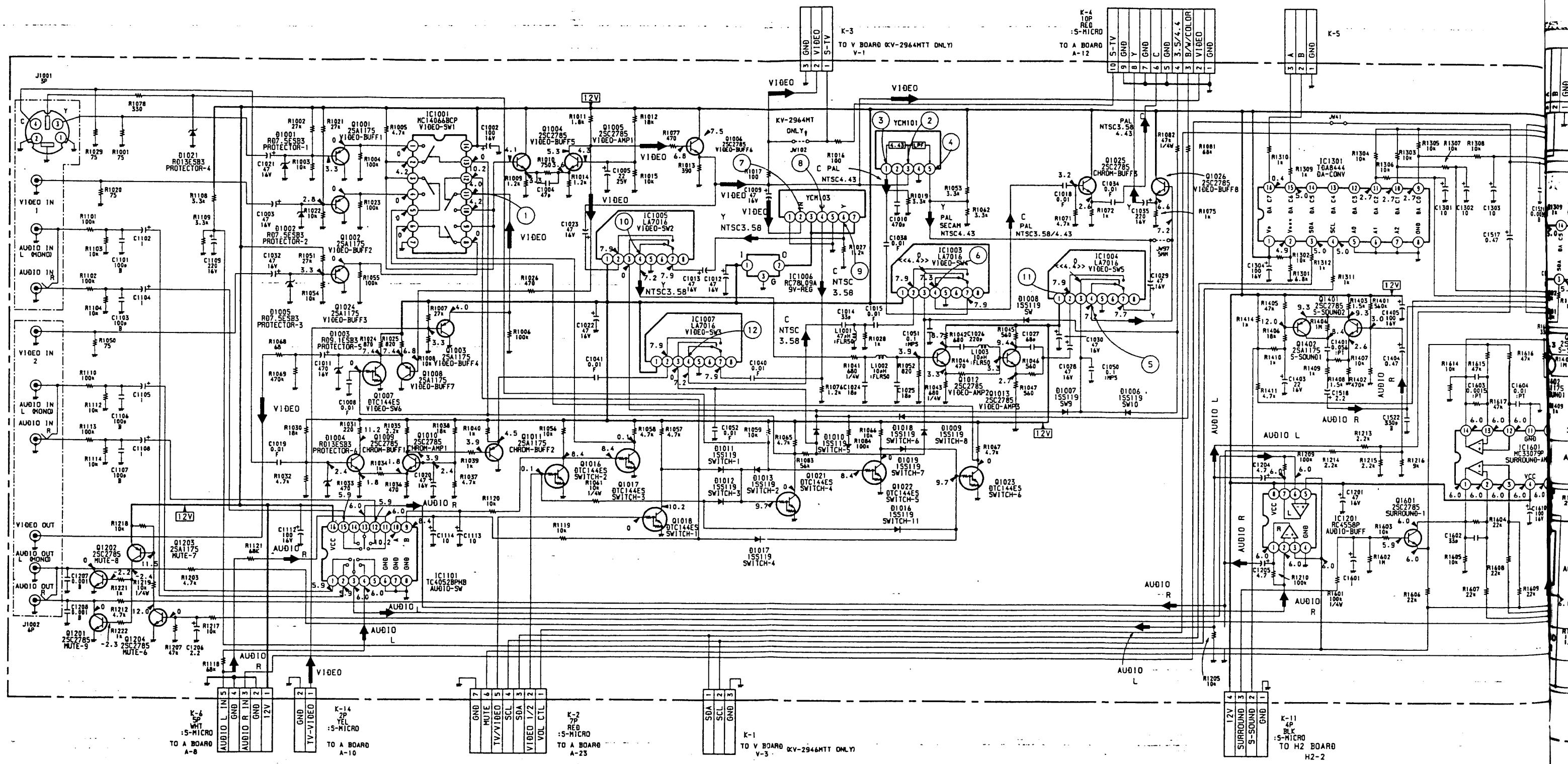
RESISTOR	: RN METAL FILM
	: RC SOLID
	: FPRD NONFLAMMABLE CARBON
	: FUSE NONFLAMMABLE FUSIBLE
	: RS NONFLAMMABLE WIREWOUND
	: RB NONFLAMMABLE CEMENT
COIL	: LF-8L MICRO INDUCTOR
CAPACITOR	: TA TANTALUM
	: PS STYROL
	: PP POLYPROPYLENE
	: PT MYLAR
	: MPS METALIZED POLYESTER
	: MPP METALIZED POLYPROPYLENE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

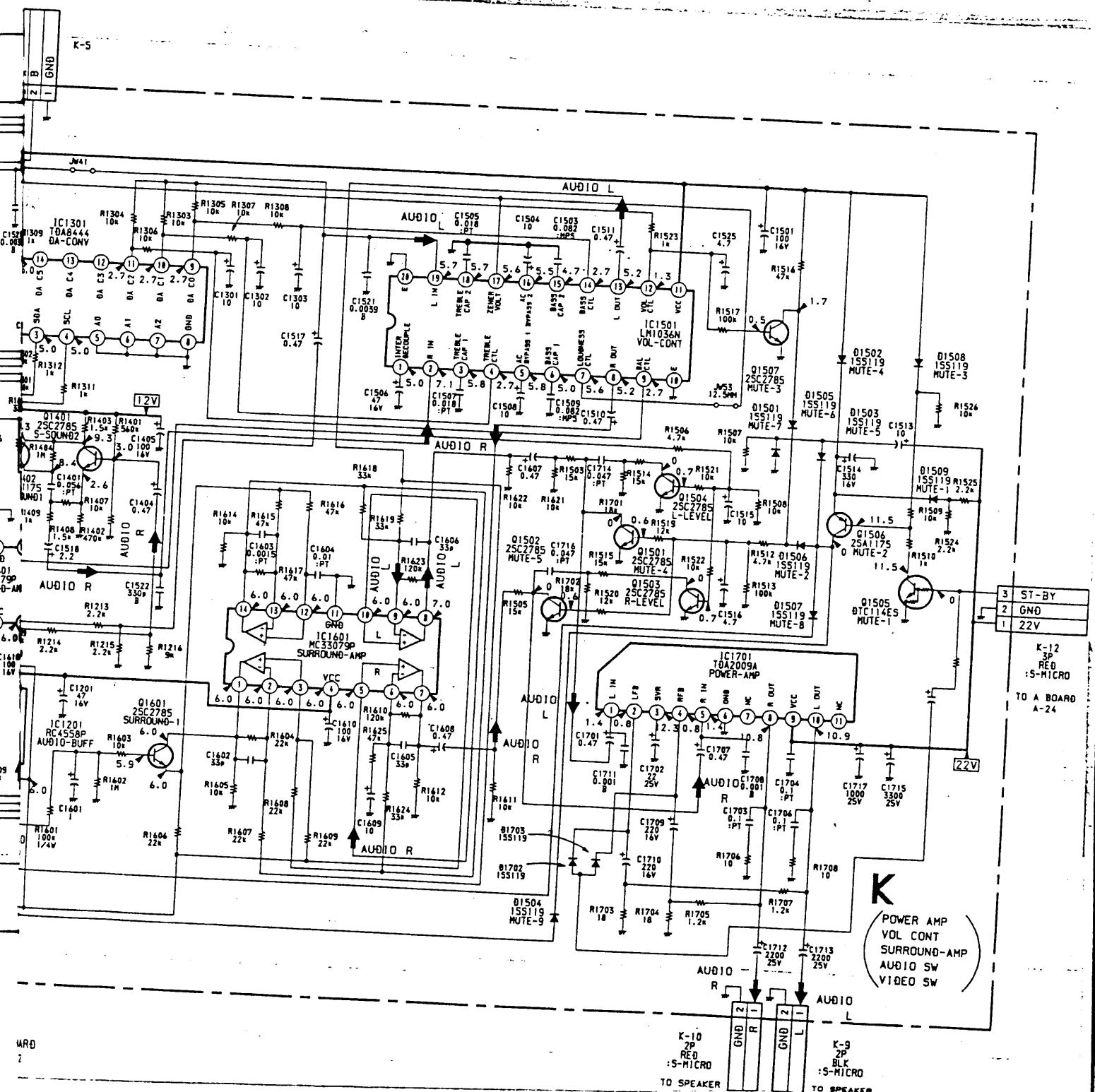
CIRCUIT BOARDS LOCATION

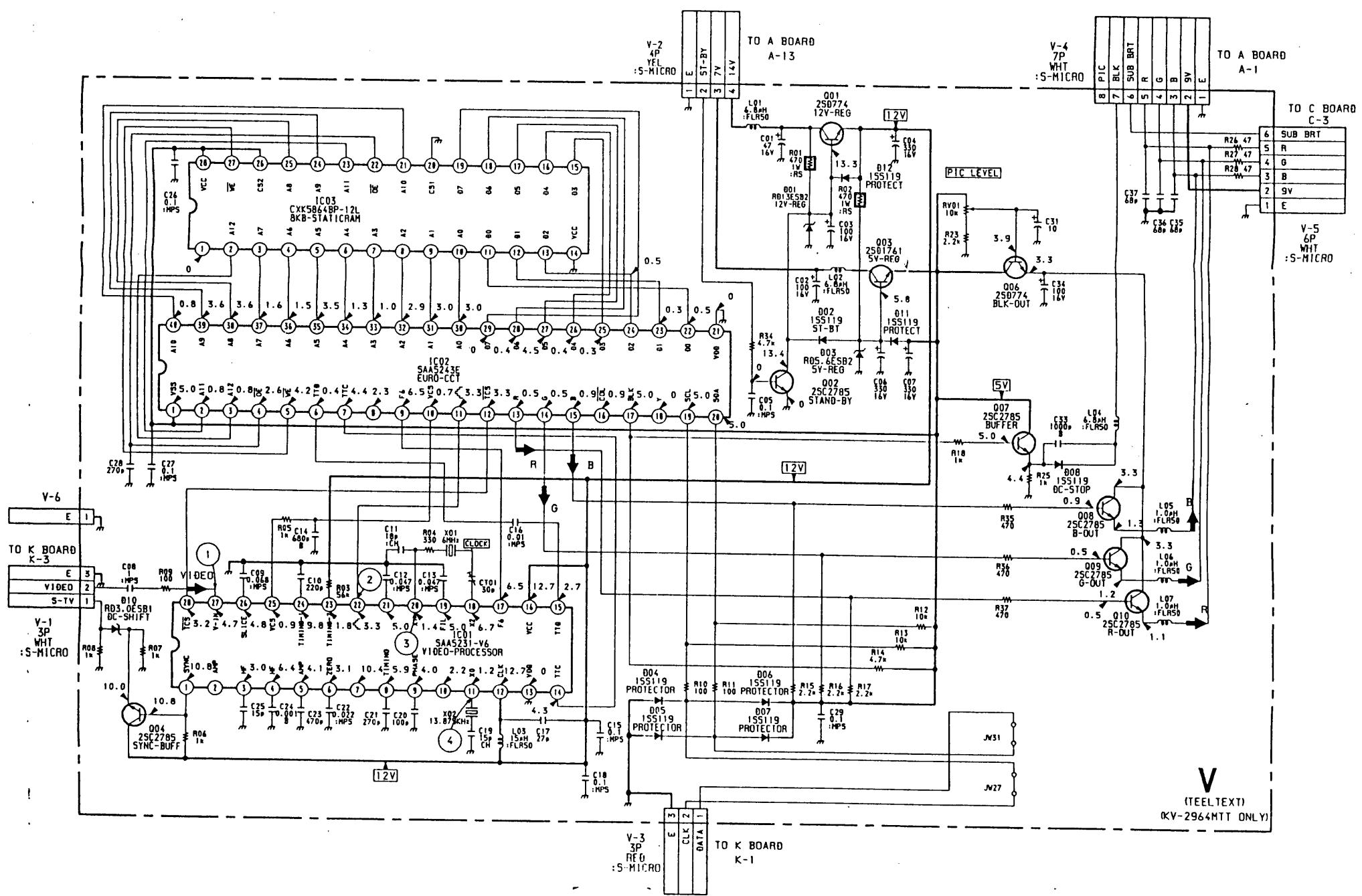








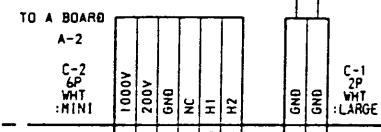
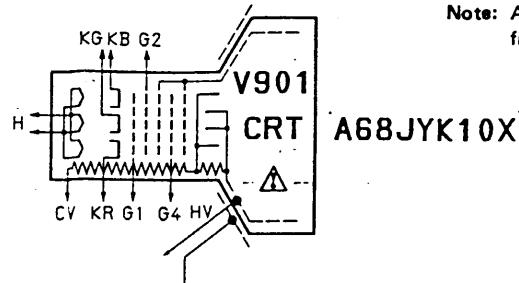
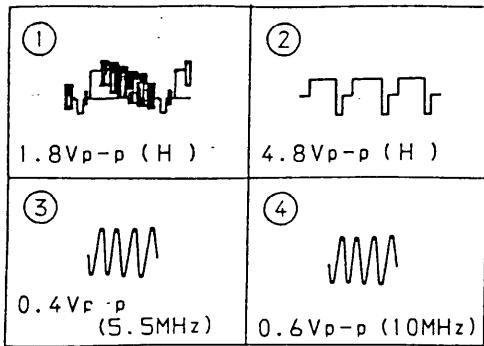




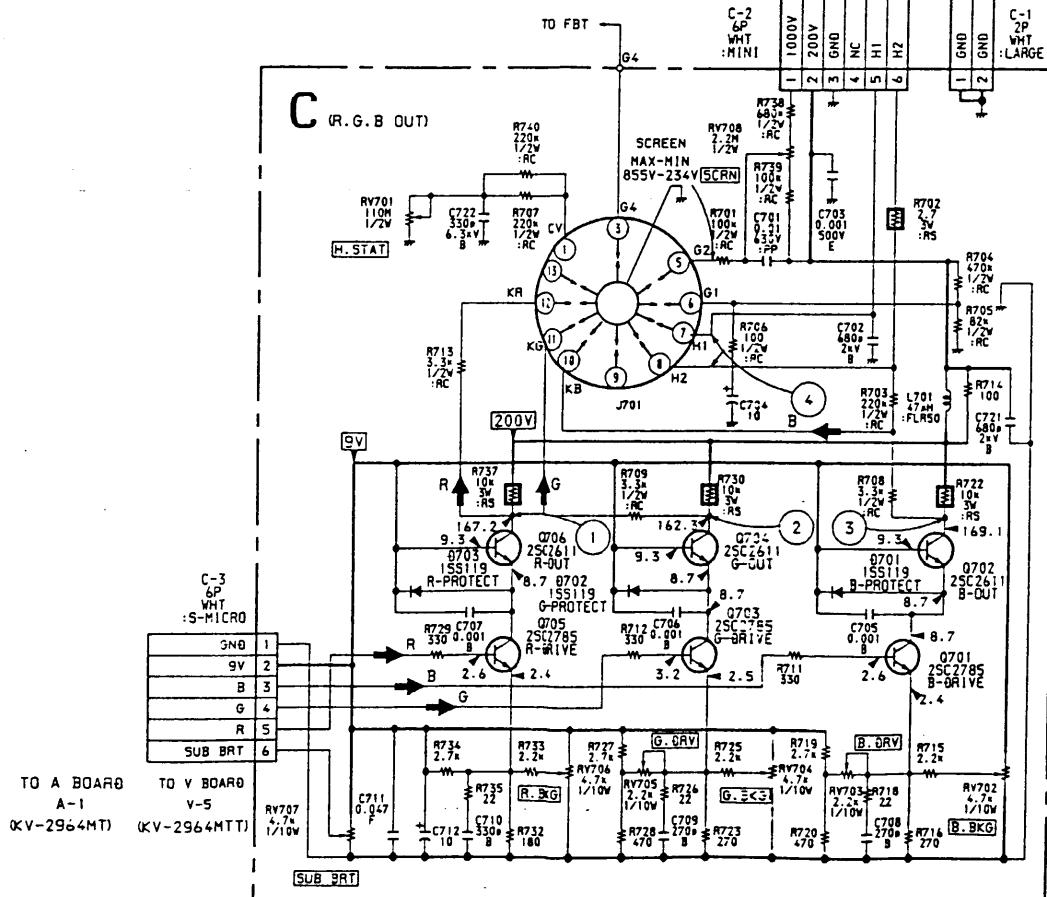
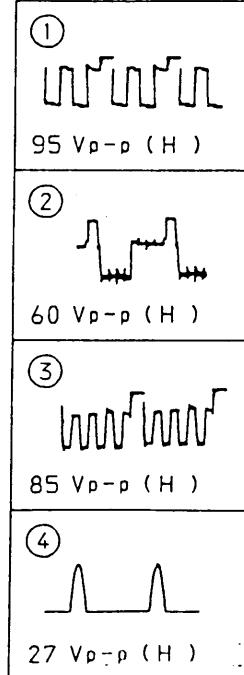
PRINTED WIRING BOARDS

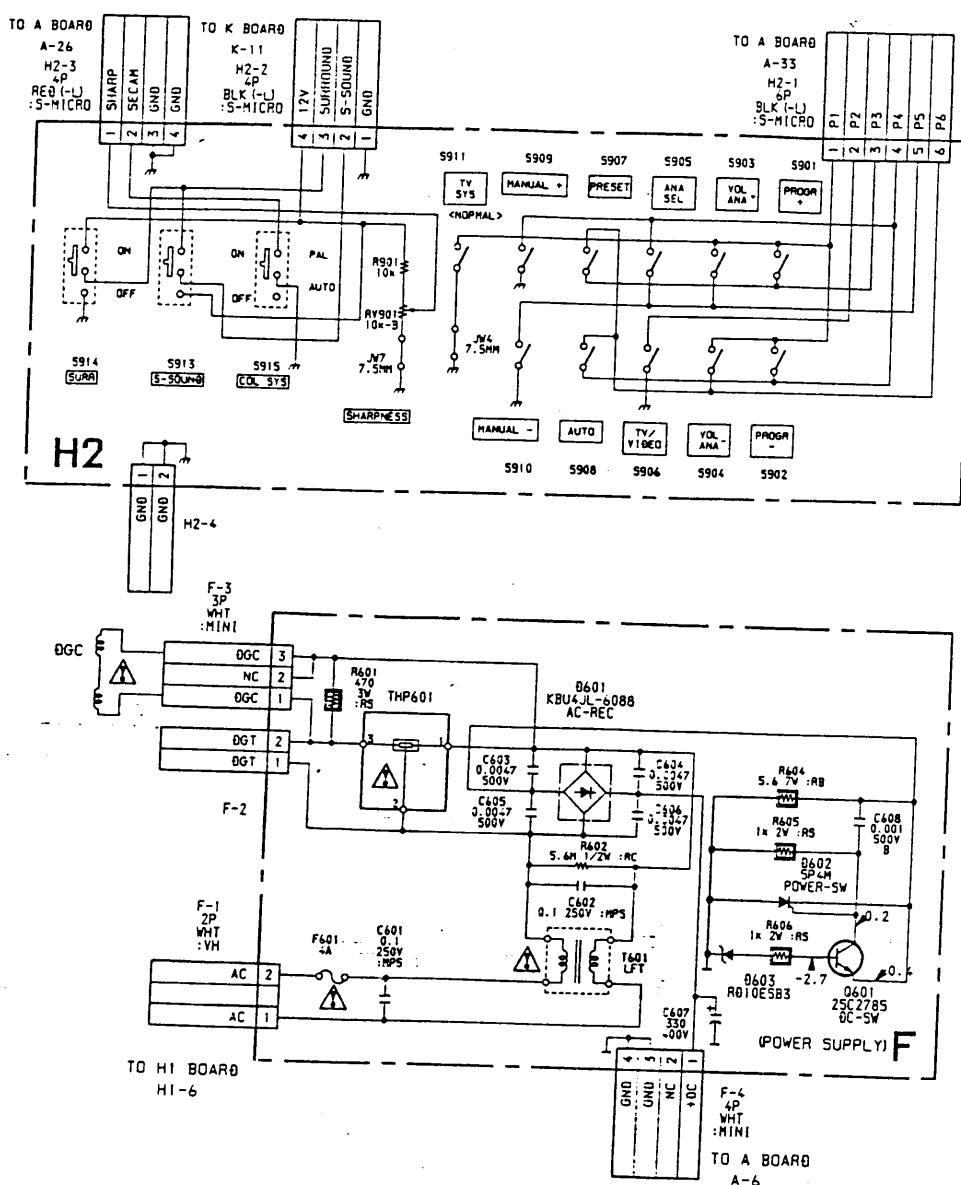
Note: All mounting diagrams are viewed from conductor side.

• V BOARD WAVEFORMS



• C BOARD WAVEFORMS

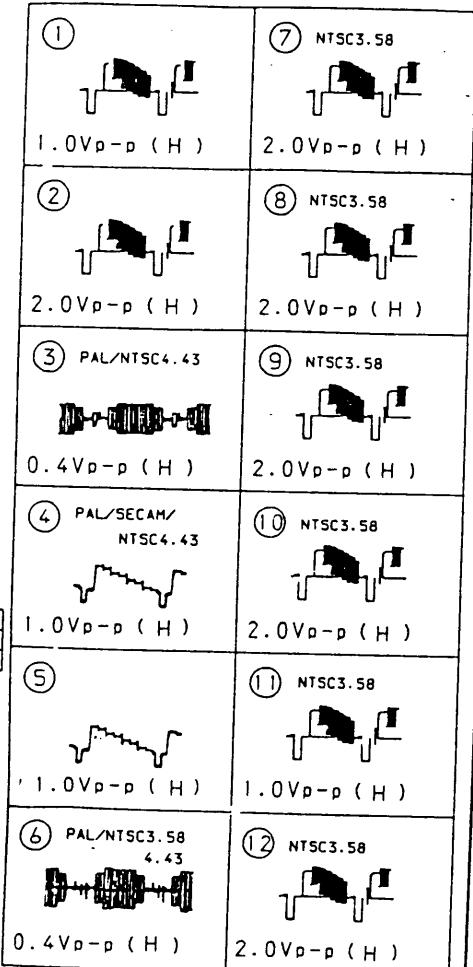




• A BOARD WAVEFORMS

① 1.5Vp-p (10MHz)	③ NTSC 3.58, 4.43 1.2Vp-p (H)	⑦ 0.3Vp-p (4.43MHz)	⑪ 	⑯ 3.2Vp-p (H)	⑯ 900 Vp-p (H)	⑳ 	㉗ 60 Vp-p (V)
② 	④ 	⑧ 0.2Vp-p (3.58MHz)	⑫ 	⑯ 1.4Vp-p (V)	㉐ 17 Vp-p (H)	㉔ 	㉘ 180 Vp-p (H)
③ 	⑤ 	⑨ 	⑬ 	㉑ 2.3Vp-p (V)	㉑ 100Vp-p (H)	㉕ 	
③ 	⑥ 	⑩ 	⑭ 2 Vp-p (V)	㉒ 28 Vp-p (H)	㉒ 1.4 Vp-p (H)	㉖ 3.6Vp-p (H)	

• K BOARD WAVEFORMS

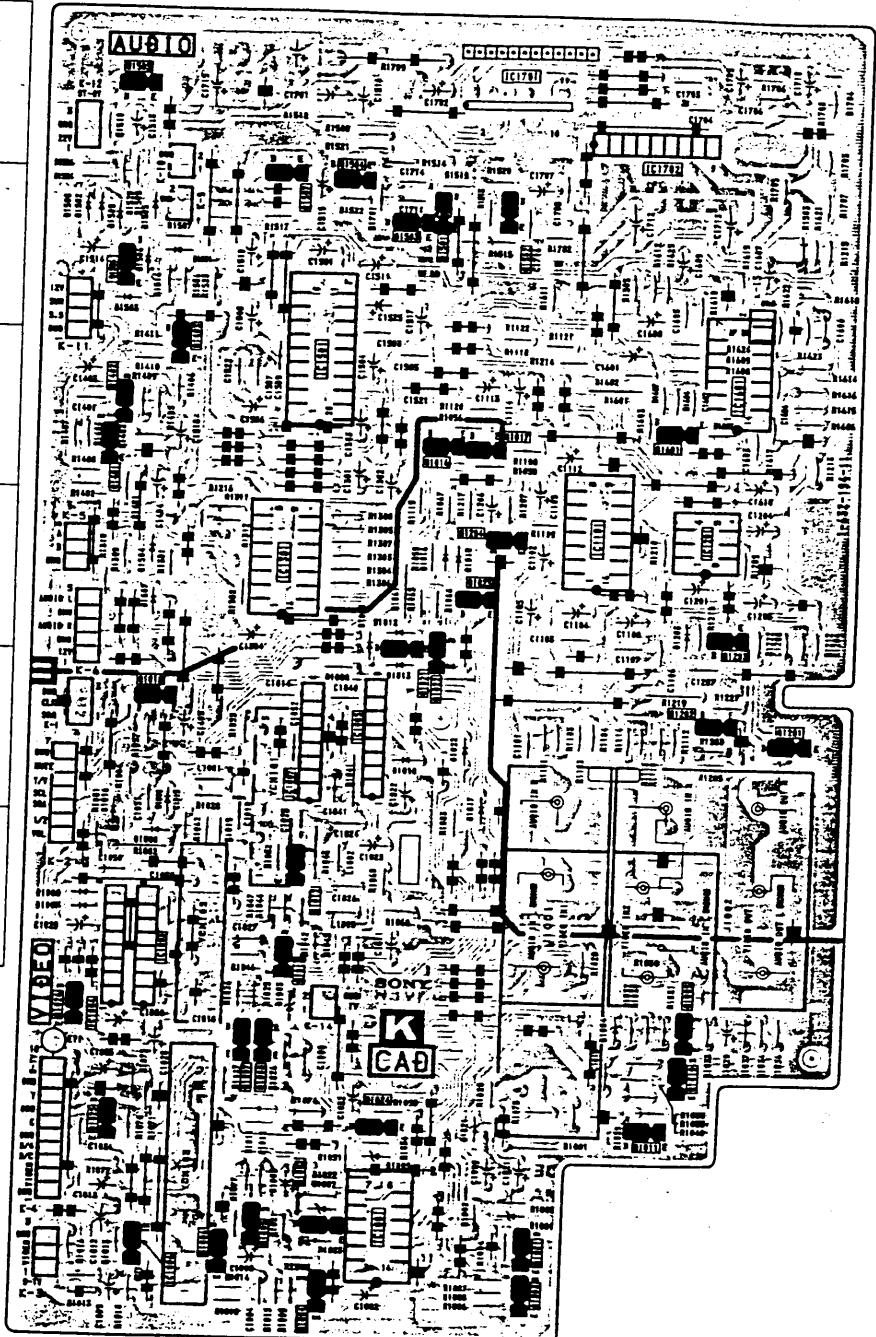


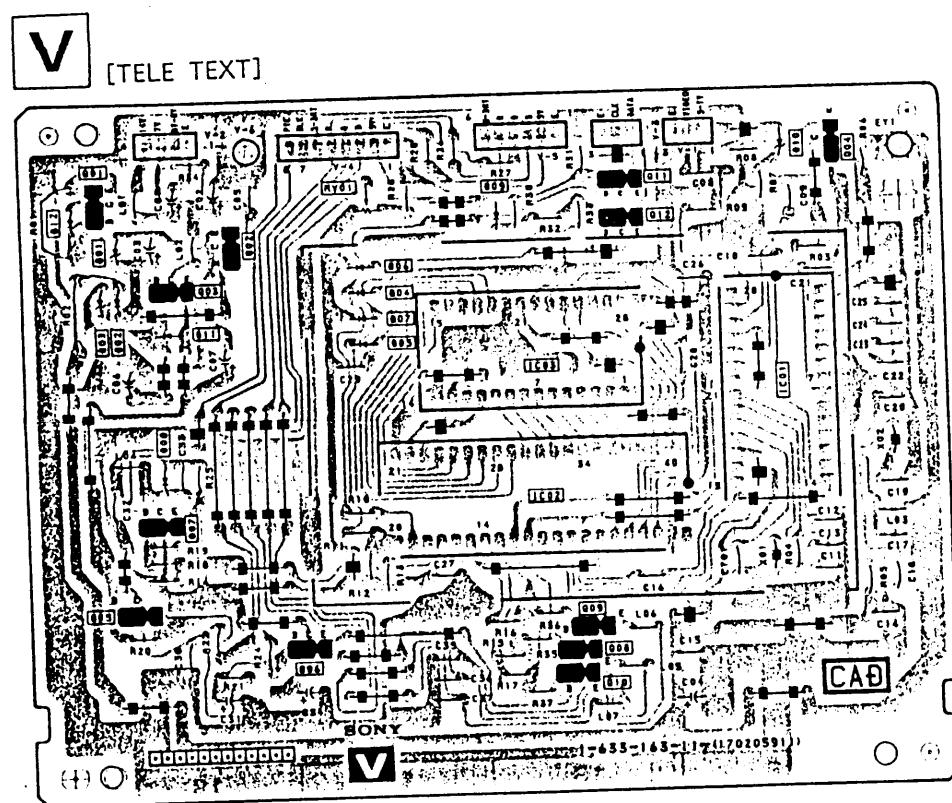
ST-BY
GND
22V

K-12
REC
S-MICRO
TO A BOARD
A-24

K

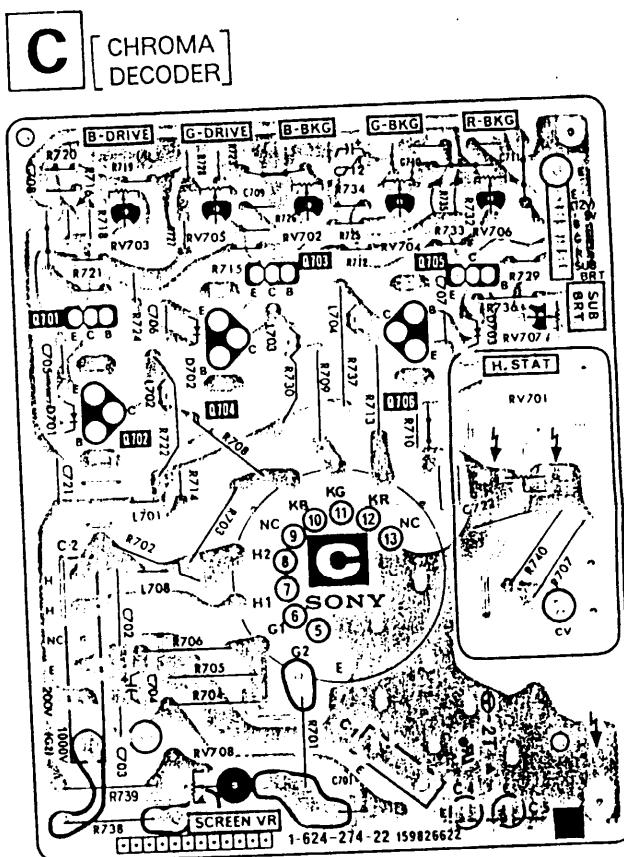
[POWER AMP, VOL CONT, SURROUND-AMP]
[AUDIO SW, VIDEO SW]





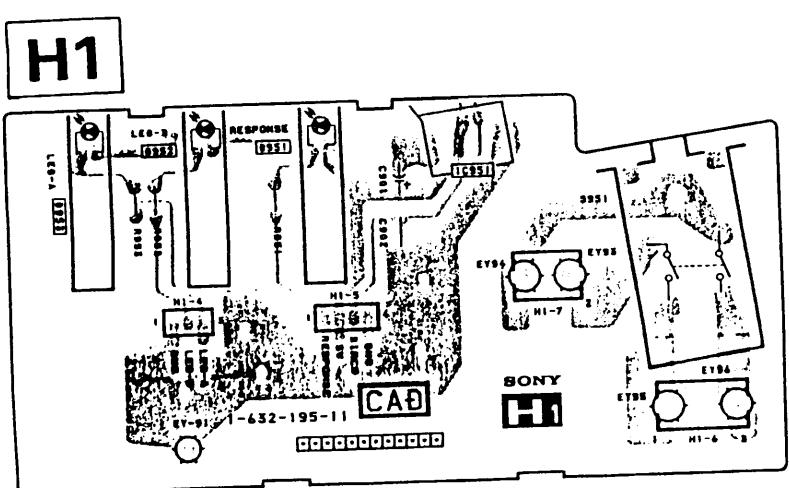
V

[TELE TEXT]

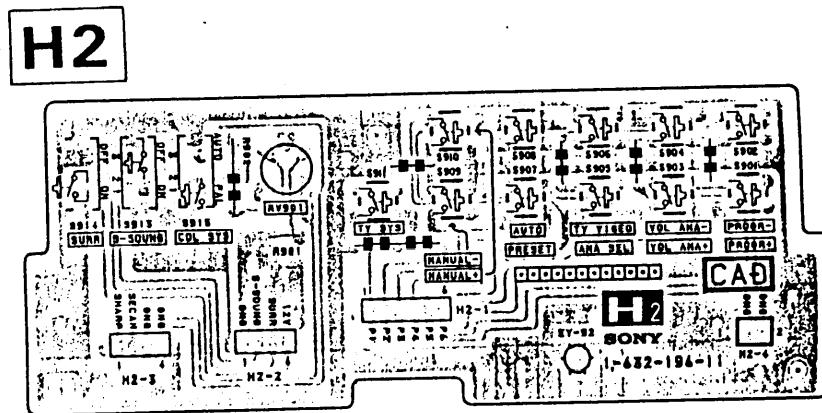


C

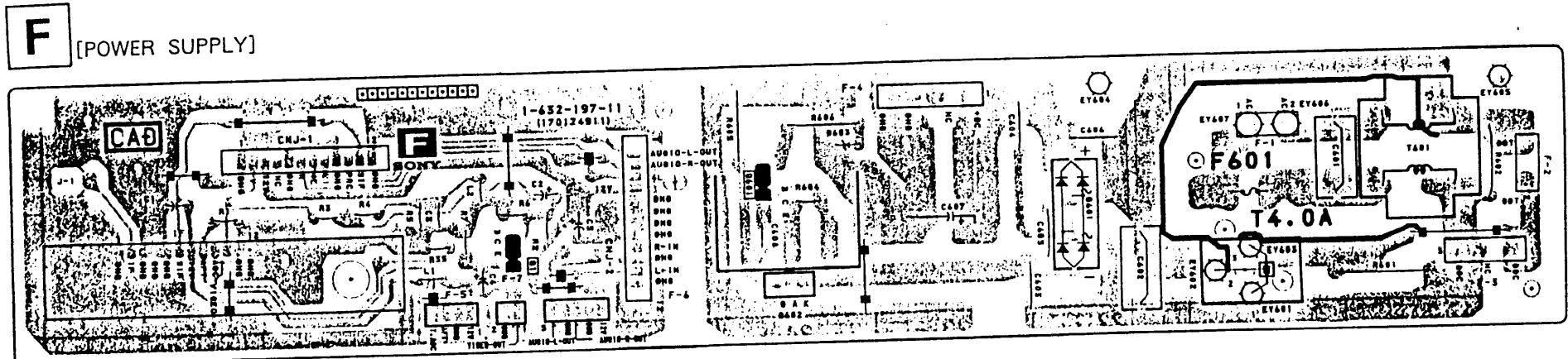
[CHROMA]
[DECODER]



H1



H2



F

[POWER SUPPLY]

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

