

SONY

TRINITRON® COLOR TV BASIC SCHEMATIC DIAGRAM

KV-2965MT/RM-827S

Chassis No. SCC-D29N

NOTE

THIS SCHEMATIC DIAGRAM IS FOR USE BY YOUR SERVICE TECHNICIAN.

KEEP THIS DIAGRAM HANDY FOR FUTURE REFERENCE.

Sony Corporation

4-039-825-01

© 1993

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 CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND A 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. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.

• Indication of resistance, which dose not have one for rating electrical power, is as follows.

Pitch : 5mm
Rating electrical power : $\frac{1}{4}\text{W}$

k Ω : 1000 Ω , M Ω : 1000k Ω

• : nonflammable resistor.

• : fusible resistor.

• : panel designation and adjustment for repair.

• : B+ bus.

• : signal path.

• Circled numbers refer to waveforms.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

• Reading are taken with a digital multimeter. (DC 10M Ω)

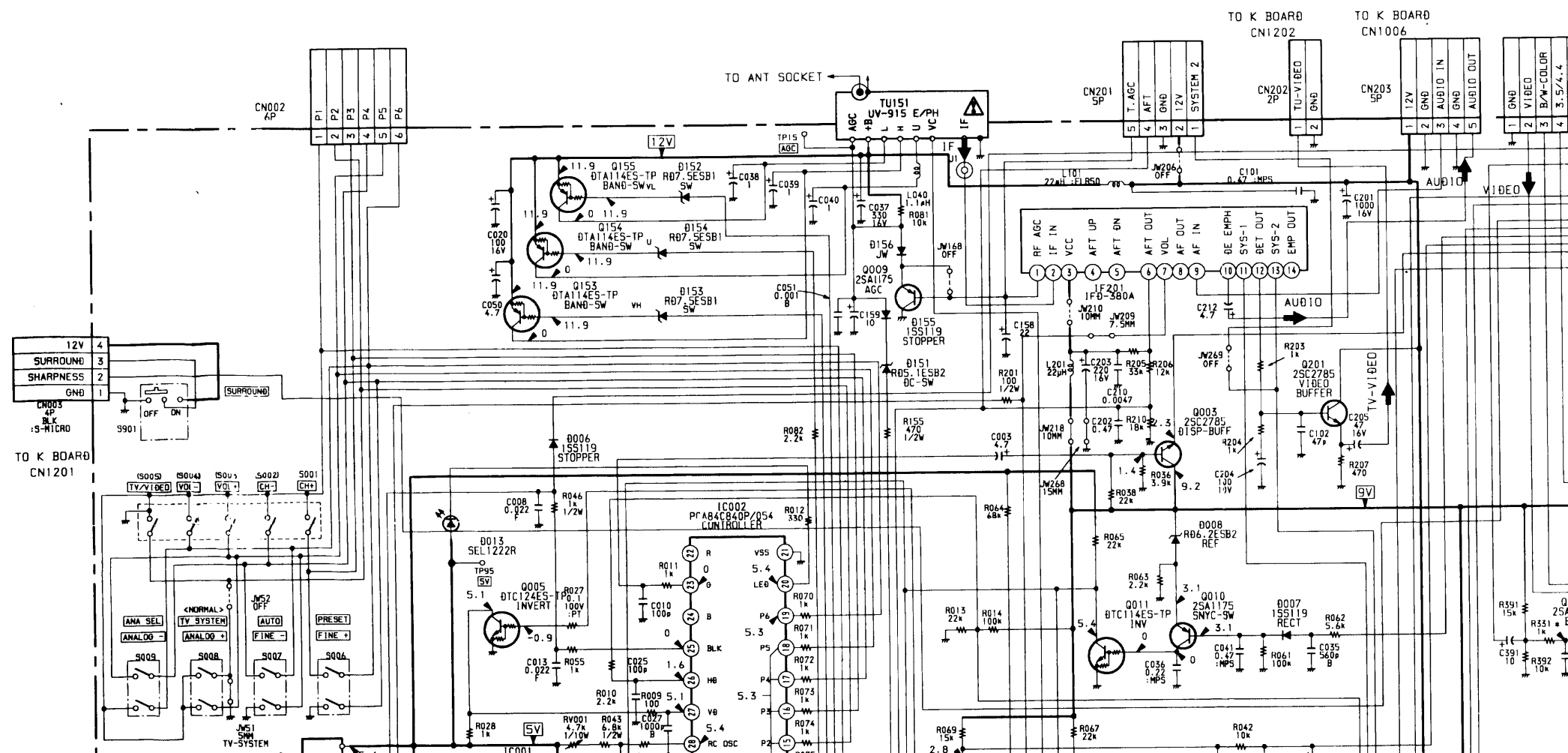
• Voltage variations may be noted due to normal production tolerances.

• Voltages are dc between ground and measurement points.

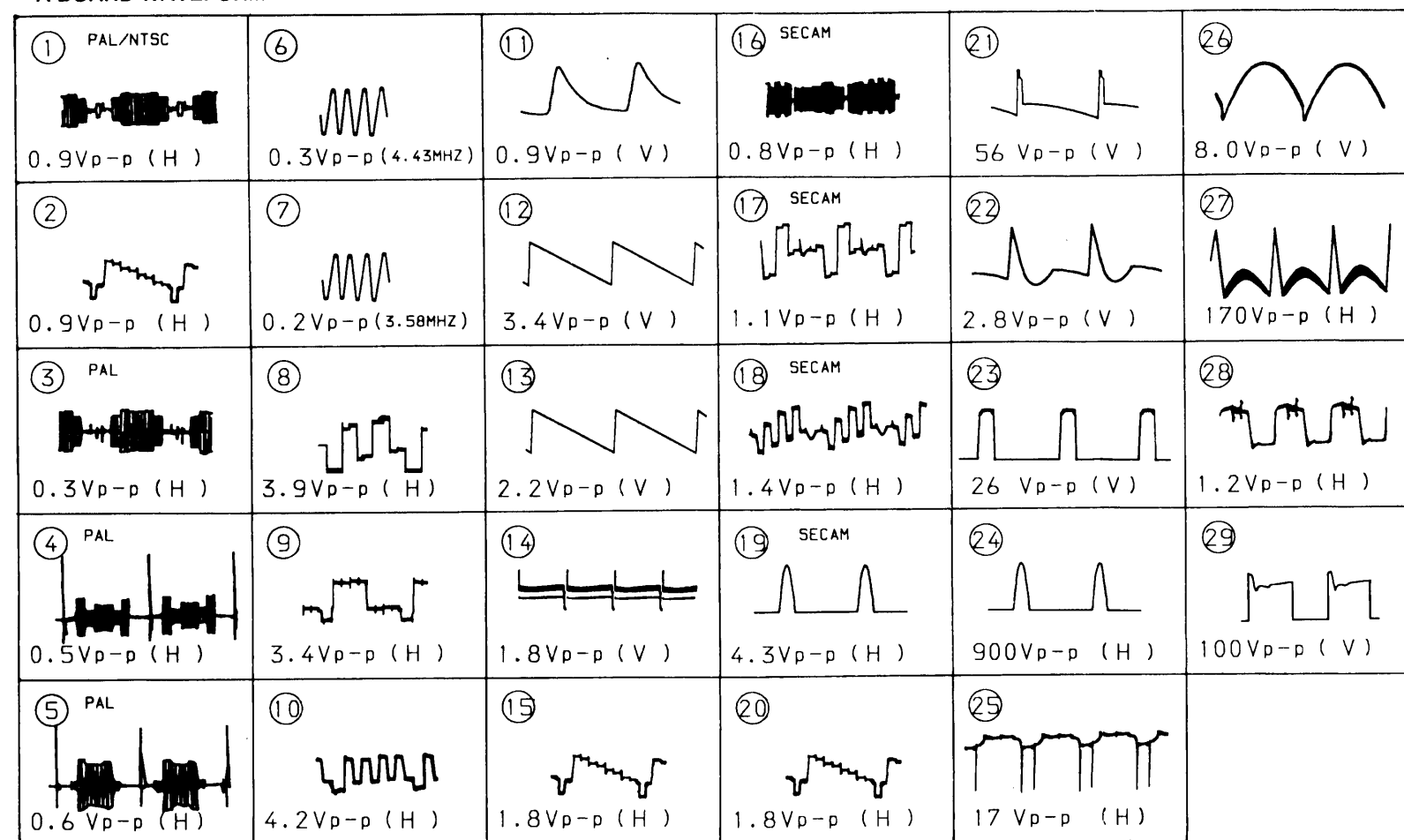
• Readings are taken with a color-bar signal input.

no mark : with PAL color-bar signal received.

SCHEMATIC DIAGRAMS



• A BOARD WAVEFORM




electrical power, is as follows.

Pitch : 5mm
Rating electrical power : 1/4W

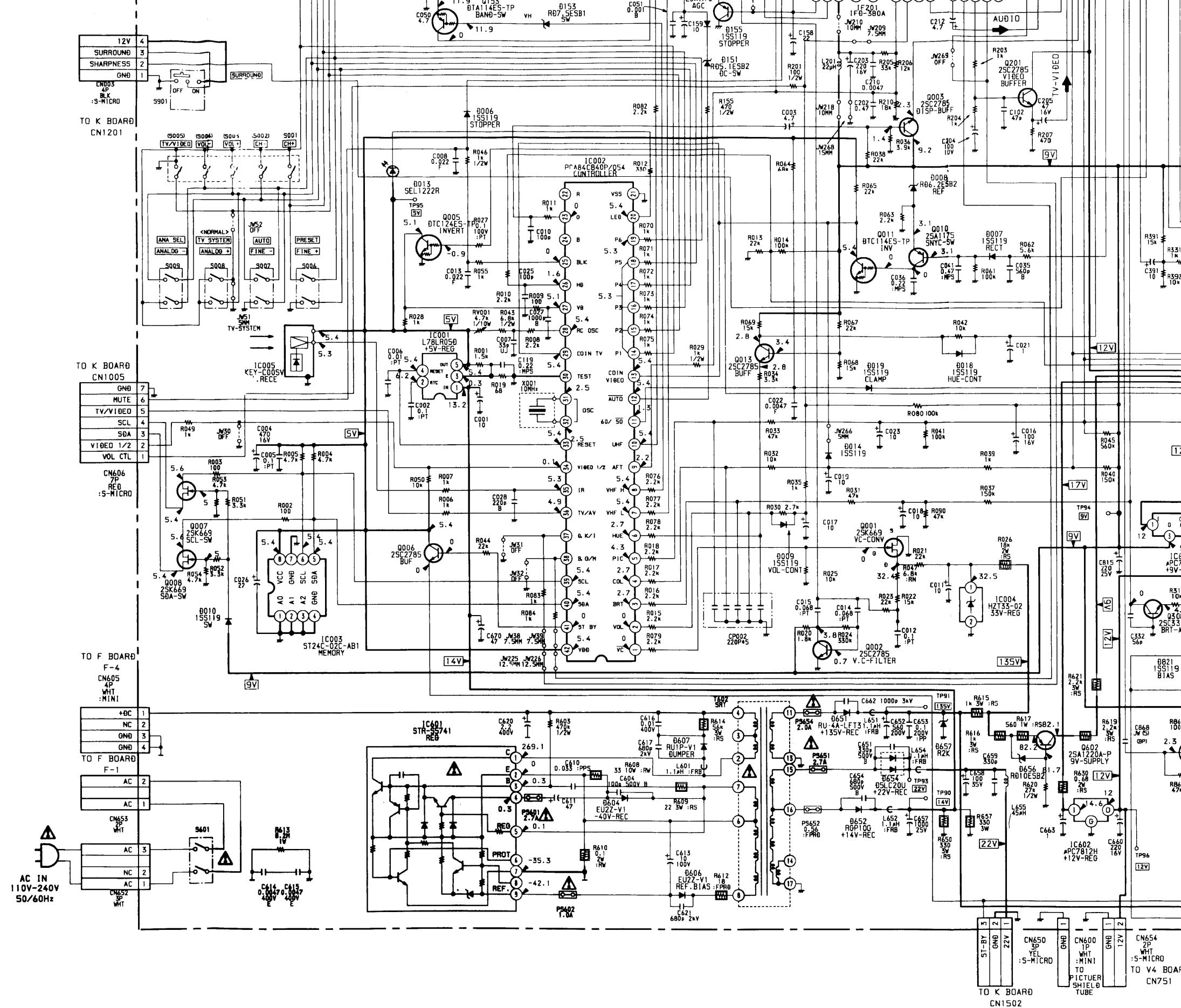
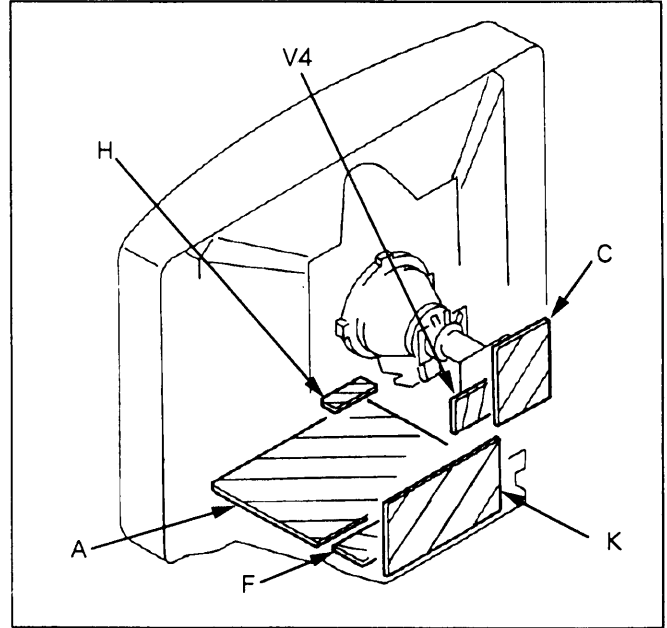
k Ω : 1000 Ω , M Ω : 1000k Ω

- : nonflammable resistor.
- : fusible resistor.
- : panel designation and adjustment for repair.
- : B+ bus.
- : signal path.
- Circled numbers refer to waveforms.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Reading are taken with a digital multimeter. (DC 10M Ω)
- Voltage variations may be noted due to normal production tolerances.
- Voltages are dc between ground and measurement points.
- Readings are taken with a color-bar signal input.
- no mark : with PAL color-bar signal received.
- () : with SECAM color-bar signal received.
- As to the voltage value shown by the mark * on the Schematic Diagram, see the another list.

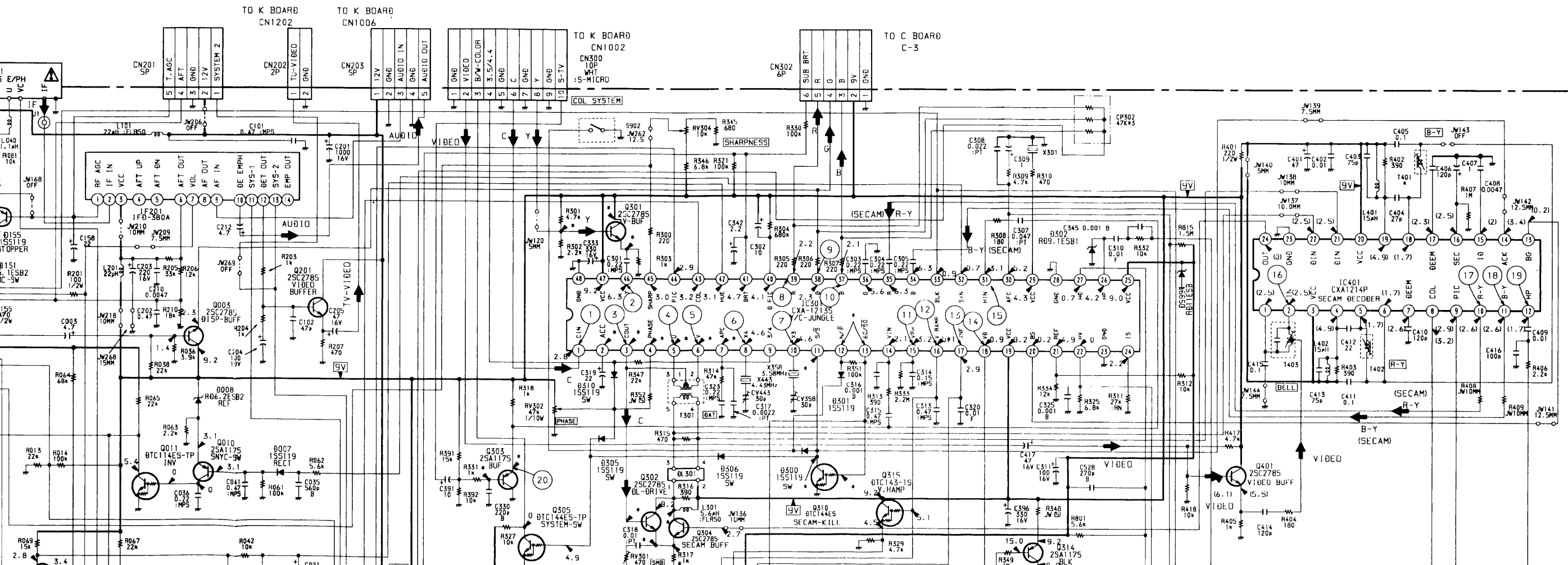
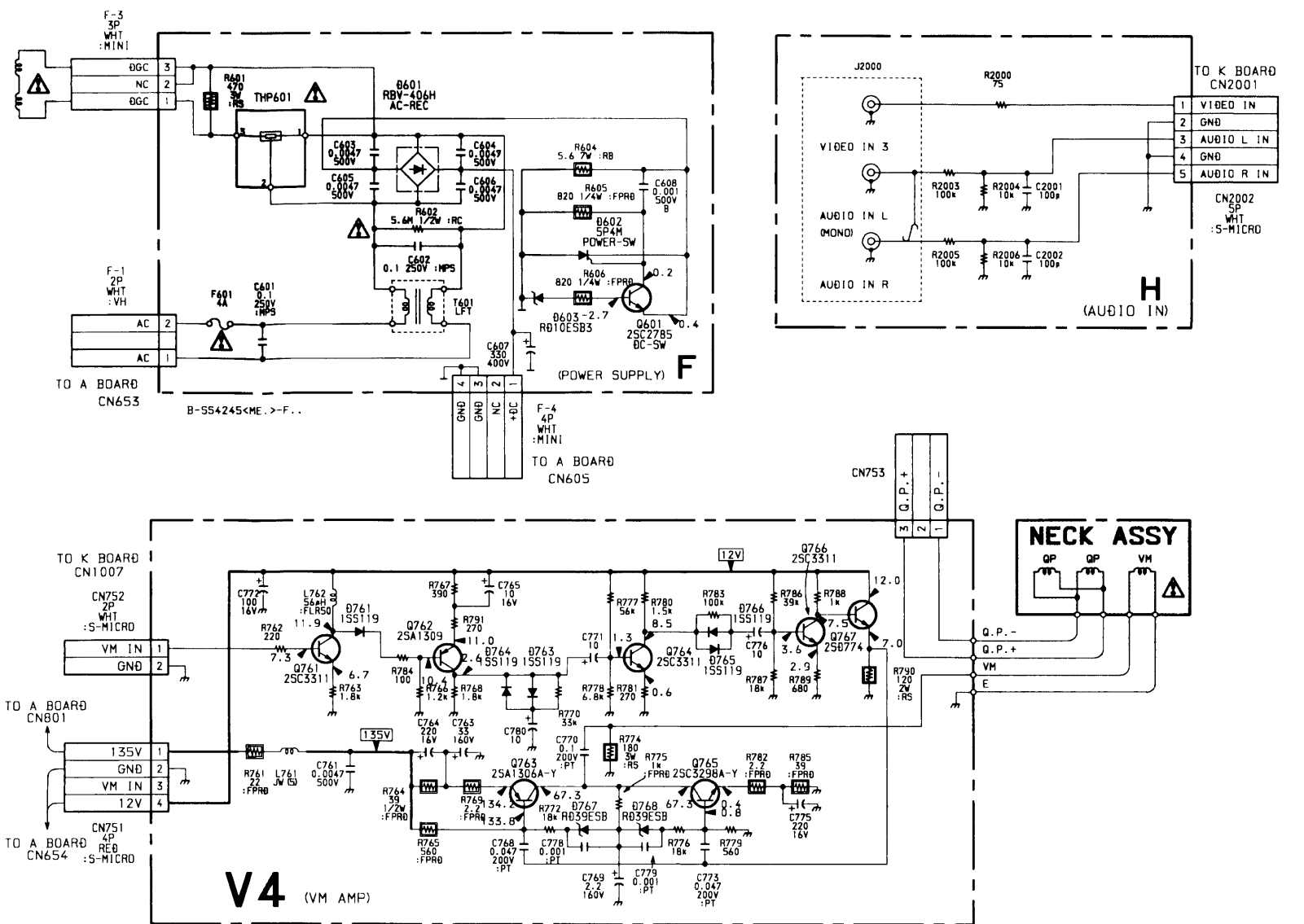
Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

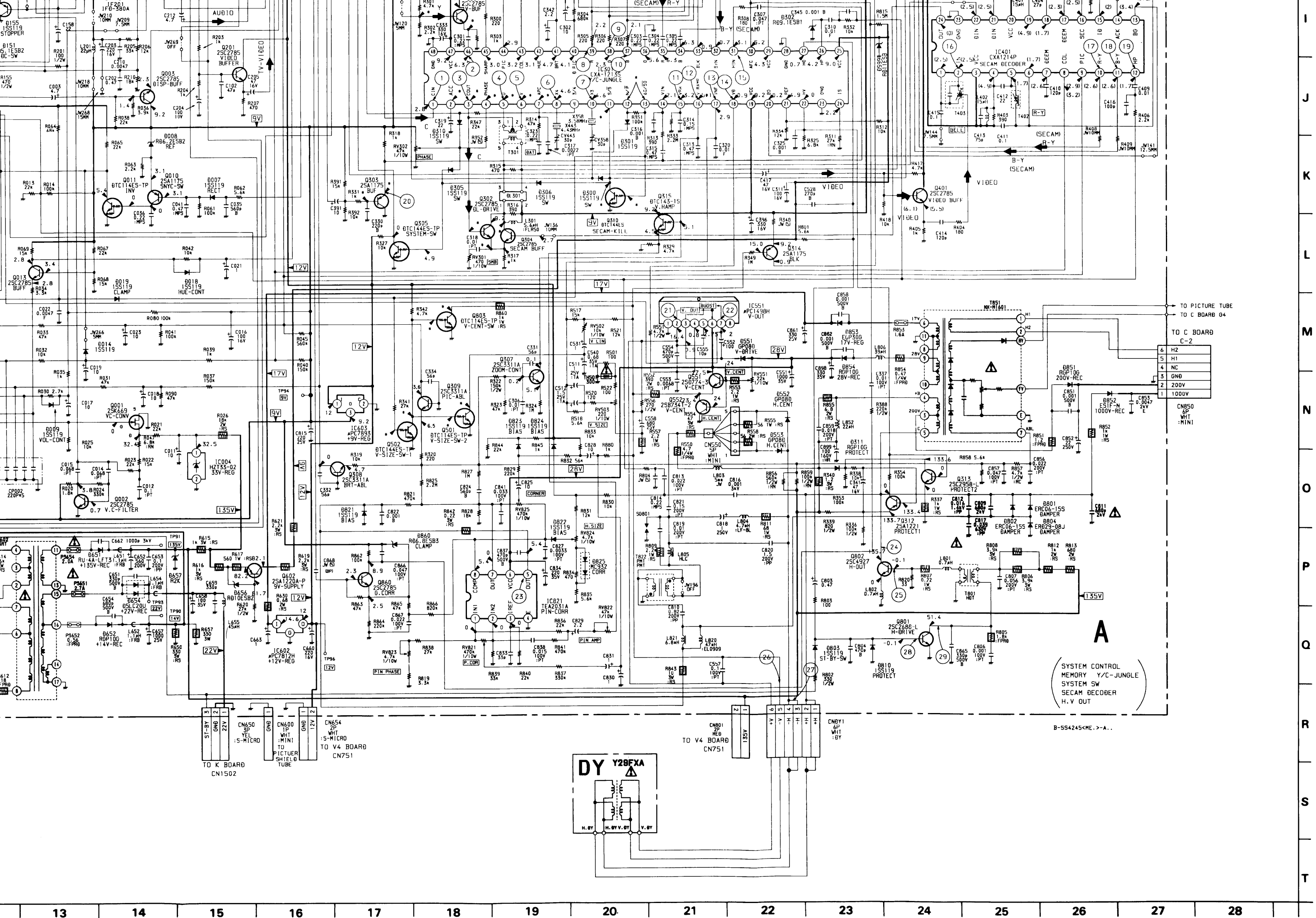
| | | |
|-----------------------|-------|----------------------------|
| Reference information | | |
| RESISTOR | RN | : METAL FILM |
| | RC | : SOLID |
| | FPRD | : NONFLAMMABLE CARBON |
| | FUSE | : NONFLAMMABLE FUSIBLE |
| | RS | : NONFLAMMABLE METAL OXIDE |
| | RB | : NONFLAMMABLE CEMENT |
| | RW | : NONFLAMMABLE WIREWOUND |
| | * | : ADJUSTMENT RESISTOR |
| COIL | 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



| | PAL | SECAM | NTSC4.43 | NTSC3.58 |
|-----------|------|-------|----------|----------|
| IC301 (2) | 6.2 | 6.4 | 6.4 | 6.0 |
| (3) | 6.0 | 0.1 | 6.0 | 6.0 |
| (4) | 5.3 | 0.7 | 5.4 | 5.4 |
| (5) | 6.0 | 0.1 | 6.0 | 6.0 |
| (6) | 6.0 | 0.1 | 6.0 | 6.0 |
| (7) | 6.8 | 6.5 | 6.8 | 6.9 |
| (9) | 0.2 | 3.0 | 0.2 | 5.5 |
| (11) | 0.1 | 3.3 | 0 | 0 |
| (12) | 0.8 | 0.8 | 3.8 | 3.8 |
| (13) | 0.8 | 0.8 | 3.9 | 3.9 |
| Q301 (B) | 2.3 | 2.9 | 2.9 | 2.9 |
| (E) | 2.9 | 2.3 | 2.3 | 2.3 |
| Q302 (B) | 6.0 | 0.1 | 6.0 | 6.0 |
| (E) | 5.3 | 2.1 | 5.4 | 5.4 |
| Q303 (B) | 4.4 | 3.8 | 3.8 | 3.8 |
| (E) | 3.8 | 4.4 | 4.4 | 4.4 |
| Q304 (E) | 5.4 | 2.0 | 5.3 | 5.4 |
| Q310 (B) | 0.8 | 0.8 | 3.9 | 3.9 |
| (C) | 0.1 | 3.3 | 0 | 0 |
| Q501 (B) | 6.4 | 6.4 | 0.1 | 0.1 |
| (C) | 0 | 0 | 0.4 | 0.4 |
| Q502 (B) | 0.6 | 0.6 | 2.6 | 2.6 |
| (C) | 6.4 | 6.4 | 0.1 | 0.1 |
| Q803 (B) | 14.9 | 0.1 | 0.1 | 0.1 |
| (C) | 0.9 | 16.5 | 16.5 | 16.5 |



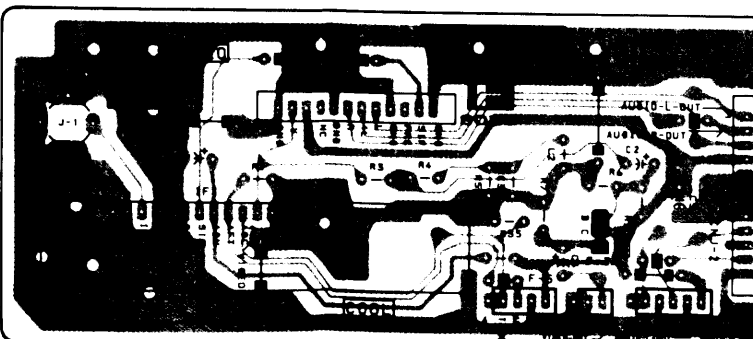


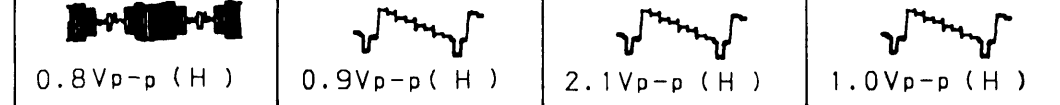


Note: All mounting diagrams are viewed from conductor side.

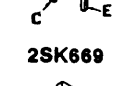
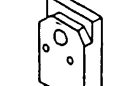
[SYSTEM CONTROL, MEMORY, Y/C JUNGLE,
SYSTEM SW, SECAM DECODER, H. V OUT]

VARIABLE
RESISTOR





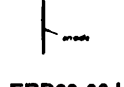
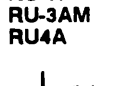
RD10ES-B1
RD10ES-B3
RD13ES-B3
RD39ES-B
RD5.1ES-B2
RD5.6ES-B2
RD6.2ES-B2
RD6.8ES-B3
RD7.5ES-B1
RD7.5ES-B3
RD9.1ES-B1
RD9.1ES-B2
RD9.1ES-B3
1SS119



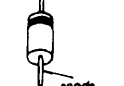
1



ERC06-138
HZT33-02



cathode

**ES1F**

cathode



MC932

