



**SCHEMATIC DIAGRAM**

**MODEL : 21D7DXE / 21D7SKH (1/2)**


**CAUTION:** The international hazard symbols  and  are used to indicate the presence of hazardous materials in the original circuit or specified in the parts list. The mounting position of components is to be identical with originals. Before replacing any component, consult the "PRODUCT SAFETY NOTICE" on page 13 of this manual for safety of the receiver through improper servicing.

6020003

**OBSERVATION OF VOLTAGES AND WAVEFORMS**

1. Voltages read with VVM from point shown to chassis ground, line voltage 230 V.
2. All waveforms are taken using a wide band oscilloscope and a low capacity probe.
3. Waveforms are taken with a standard DMM connected in the mid position and the BRIGHTNESS control is adjusted in maximum position. Set other controls for best picture.

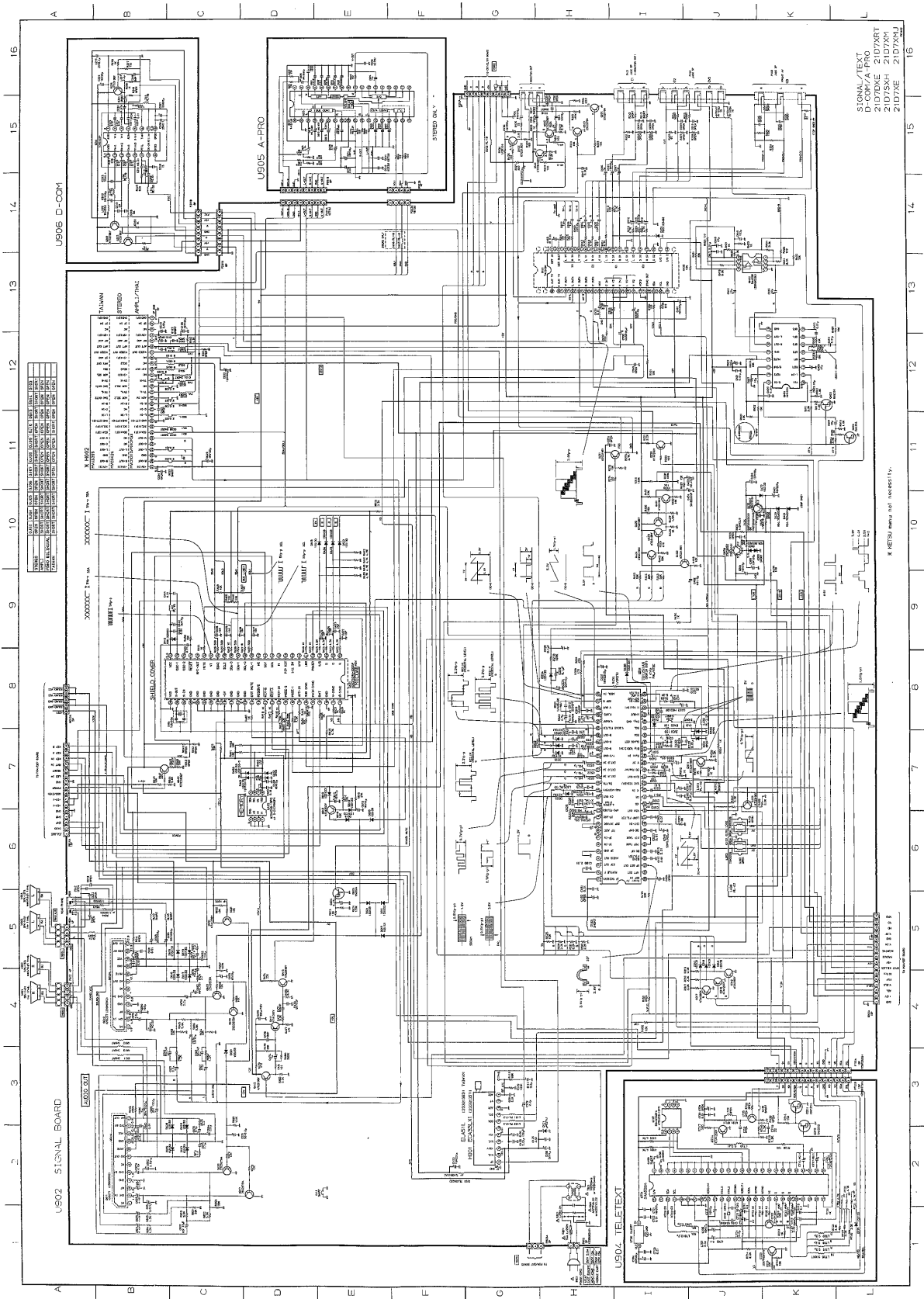
**NOTES:**

1. D.C. resistance value of a principal transformer is shown in this schematic diagram.
2. The circuits are subject to change without notice.
3.  : Solder links.

**EXPRESSION**

**VALUE OF RESISTOR, CAPACITOR AND INDUCTOR**

1. Resistance is shown in ohm, for 1000 Ohm 1.000000
2. Capacitance is shown in pF and the value more than 1 μF capacitor value less than 1 are expressed in μF.
3. Unless otherwise noted in schematic, all inductor value more than 1 are expressed in mH, and the value less than 1 mH.





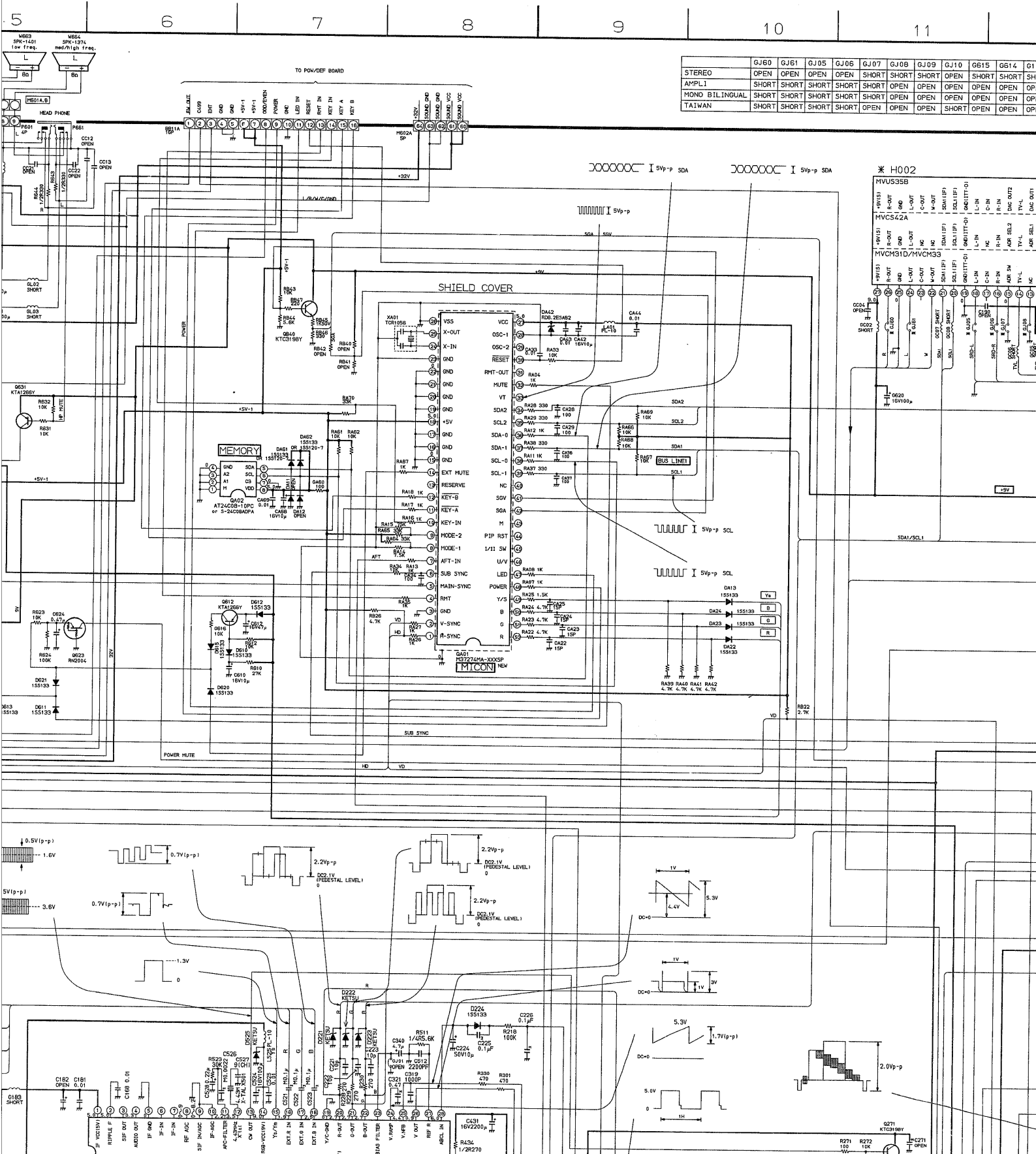
- 1. Re
- 2. Un
- 3. Un
- sec
- sec

AND WAVEFORMS

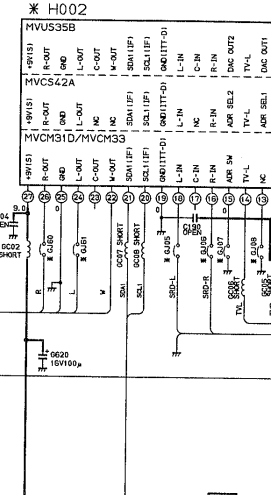
m point shown to chassis ground, line voltage 220  
 ages reading may vary  $\pm 20\%$ .  
 a wide band oscilloscope and a low capacity probe.  
 standard colour bar signal.  
 and COLOUR controls are in mid position and  
 st in maximum position. Set other controls for best

NOTES:

- 1. D.C. resistance value of a principal transformer is shown in this schematic dia-gram. These are measured for separated from the circuit.
- 2. The circuits are subject to change without notice.
- 3. ● : Solder links.



	GJ60	GJ61	GJ05	GJ06	GJ07	GJ08	GJ09	GJ10	GB15	GB14	GB1
STEREO	OPEN	OPEN	OPEN	OPEN	SHORT	SHORT	SHORT	OPEN	SHORT	SHORT	SH
AMPL 1	SHORT	SHORT	SHORT	SHORT	SHORT	OPEN	OPEN	OPEN	OPEN	OPEN	OP
MONO BILINGUAL	SHORT	SHORT	SHORT	SHORT	SHORT	OPEN	OPEN	OPEN	OPEN	OPEN	OP
TAIWAN	SHORT	SHORT	SHORT	SHORT	OPEN	OPEN	OPEN	SHORT	OPEN	OPEN	OP



**EXPRESSION**

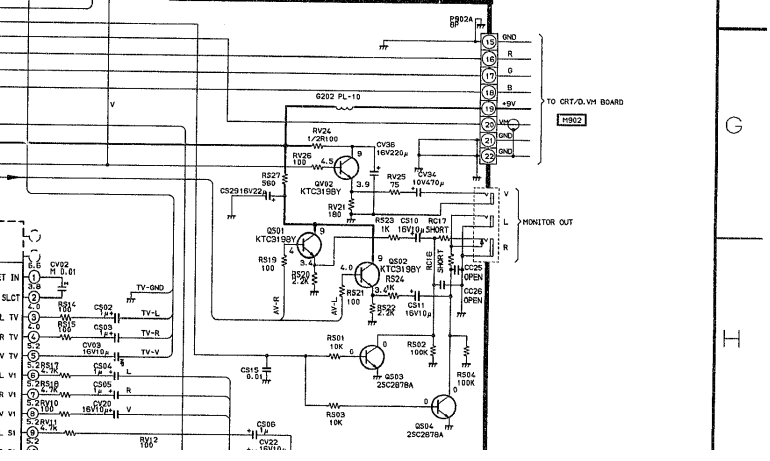
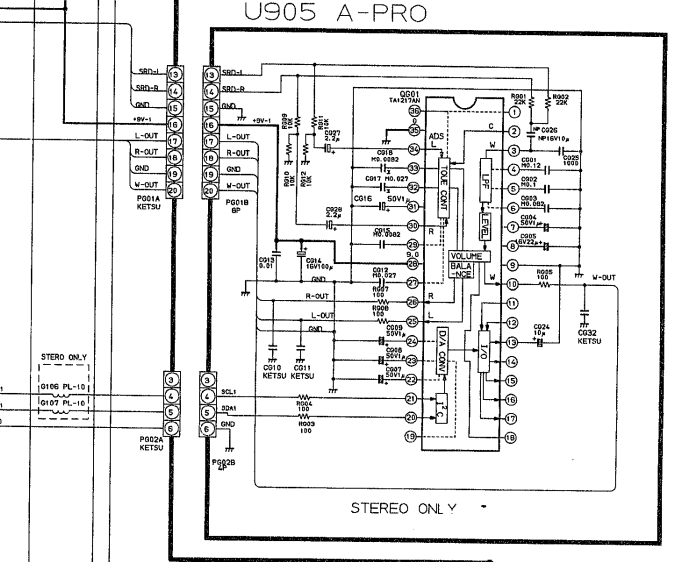
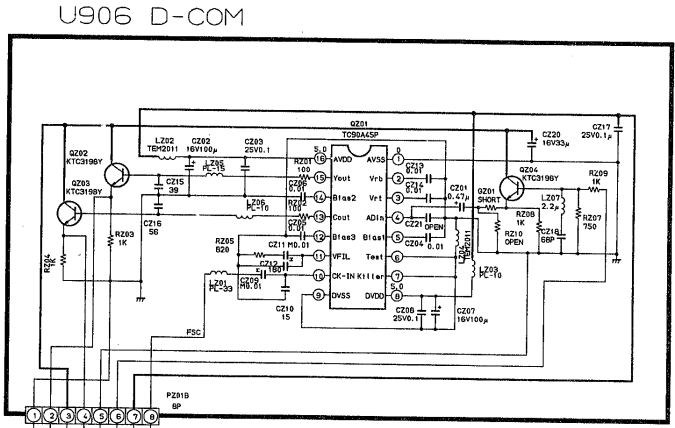
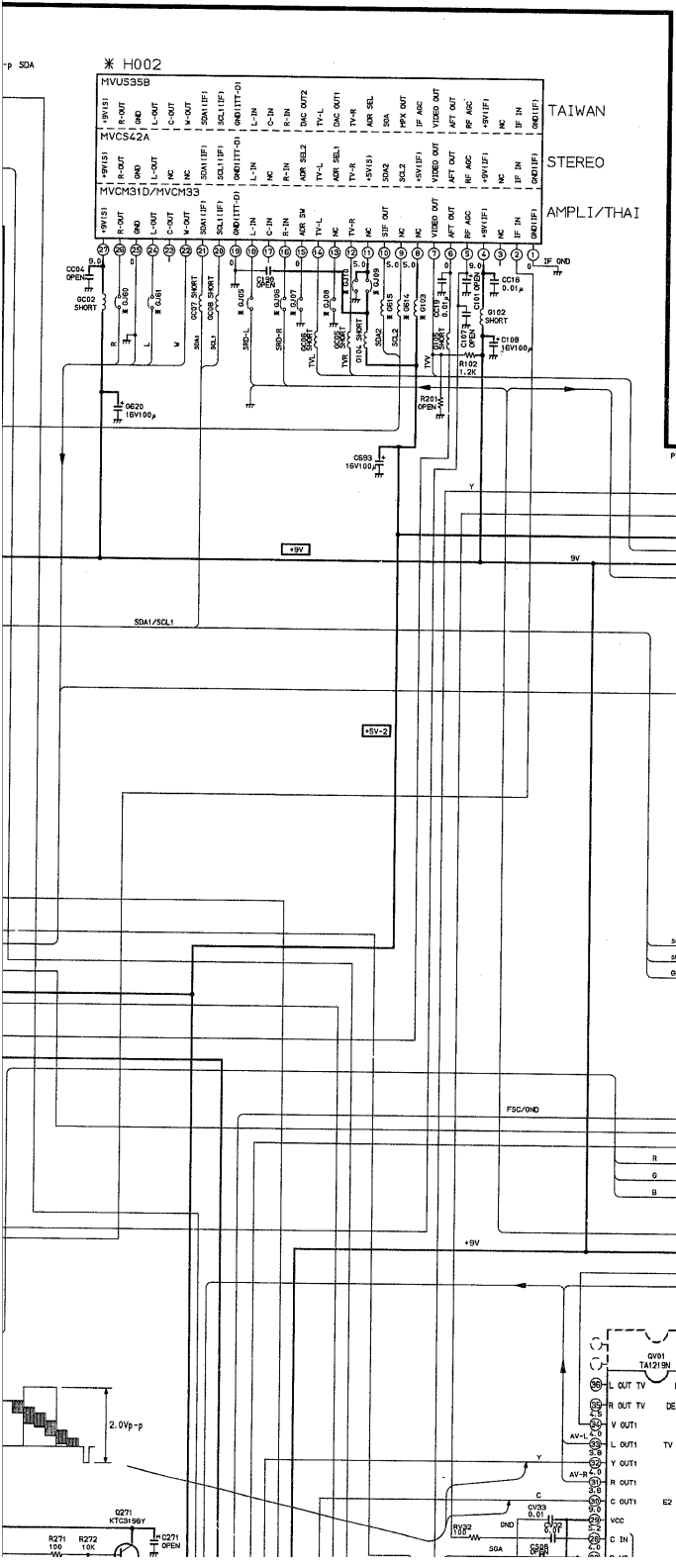
**VALUE OF RESISTOR, CAPACITOR and INDUCTOR**

1. Resistance is shown in ohm, k=1,000, M=1,000,000
2. Unless other wise noted in schematic, all capacitor values less than 1 are expressed in  $\mu\text{F}$  and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in  $\mu\text{H}$ , and the values less than 1 in H.

Schematic dia-

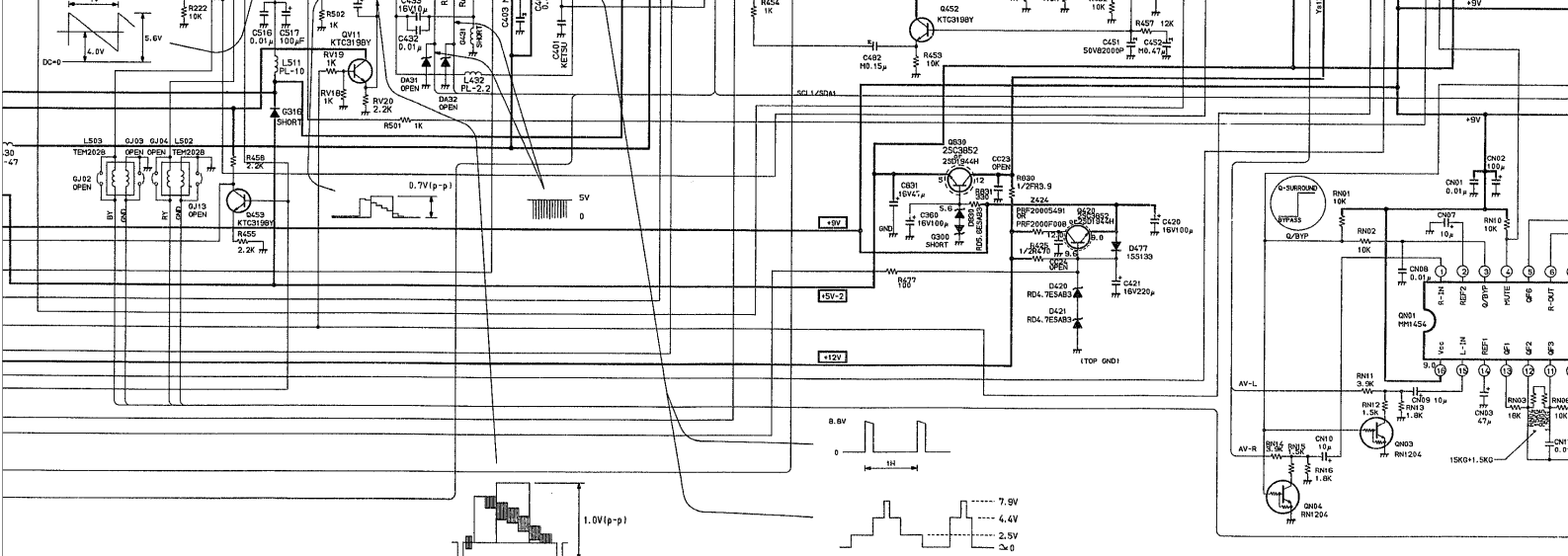
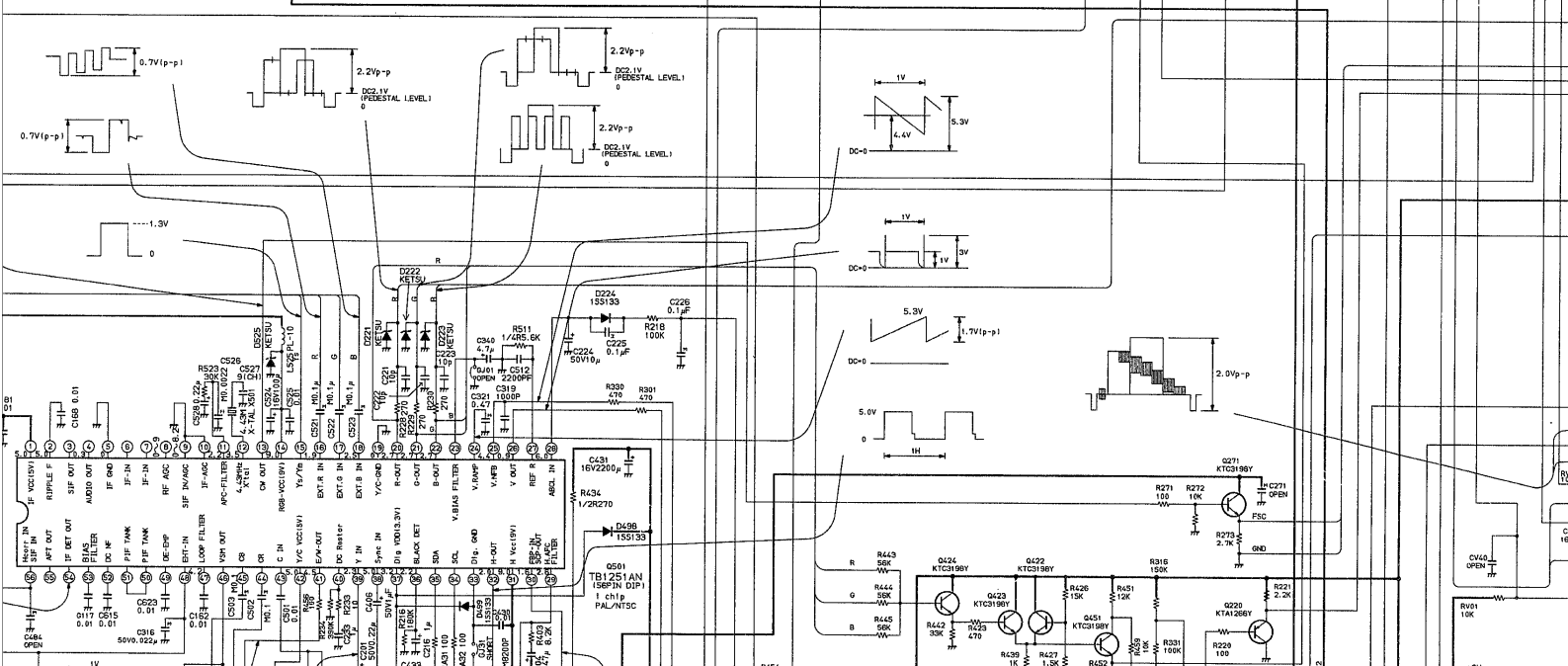
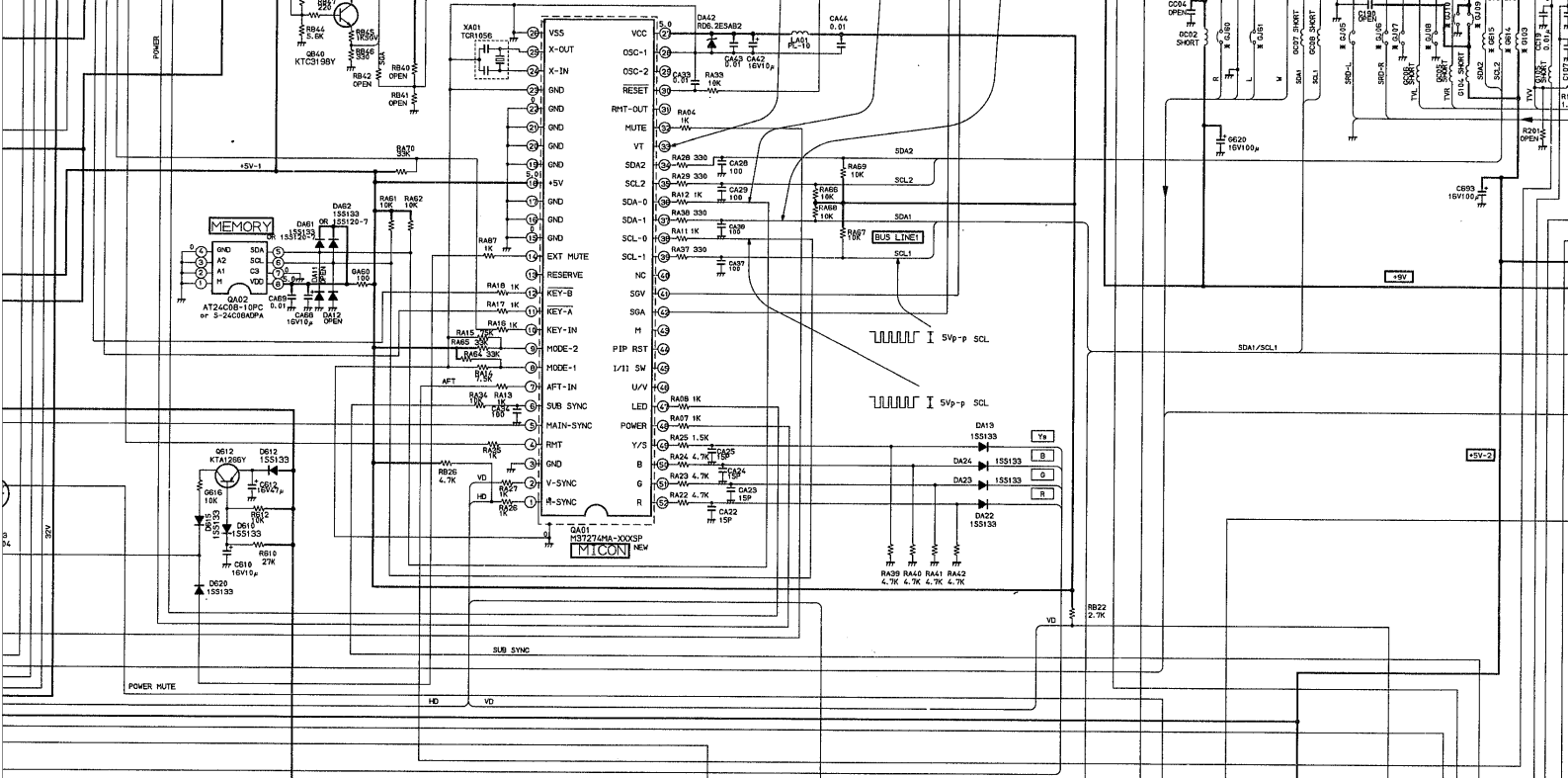
	11	12	13	14	15	16
--	----	----	----	----	----	----

J05	GJ06	GJ07	GJ08	GJ09	GJ10	G615	G614	G103
OPEN	OPEN	SHORT	SHORT	SHORT	OPEN	SHORT	SHORT	SHORT
SHORT	SHORT	SHORT	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN
SHORT	SHORT	SHORT	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN
SHORT	SHORT	OPEN	OPEN	OPEN	SHORT	OPEN	OPEN	OPEN

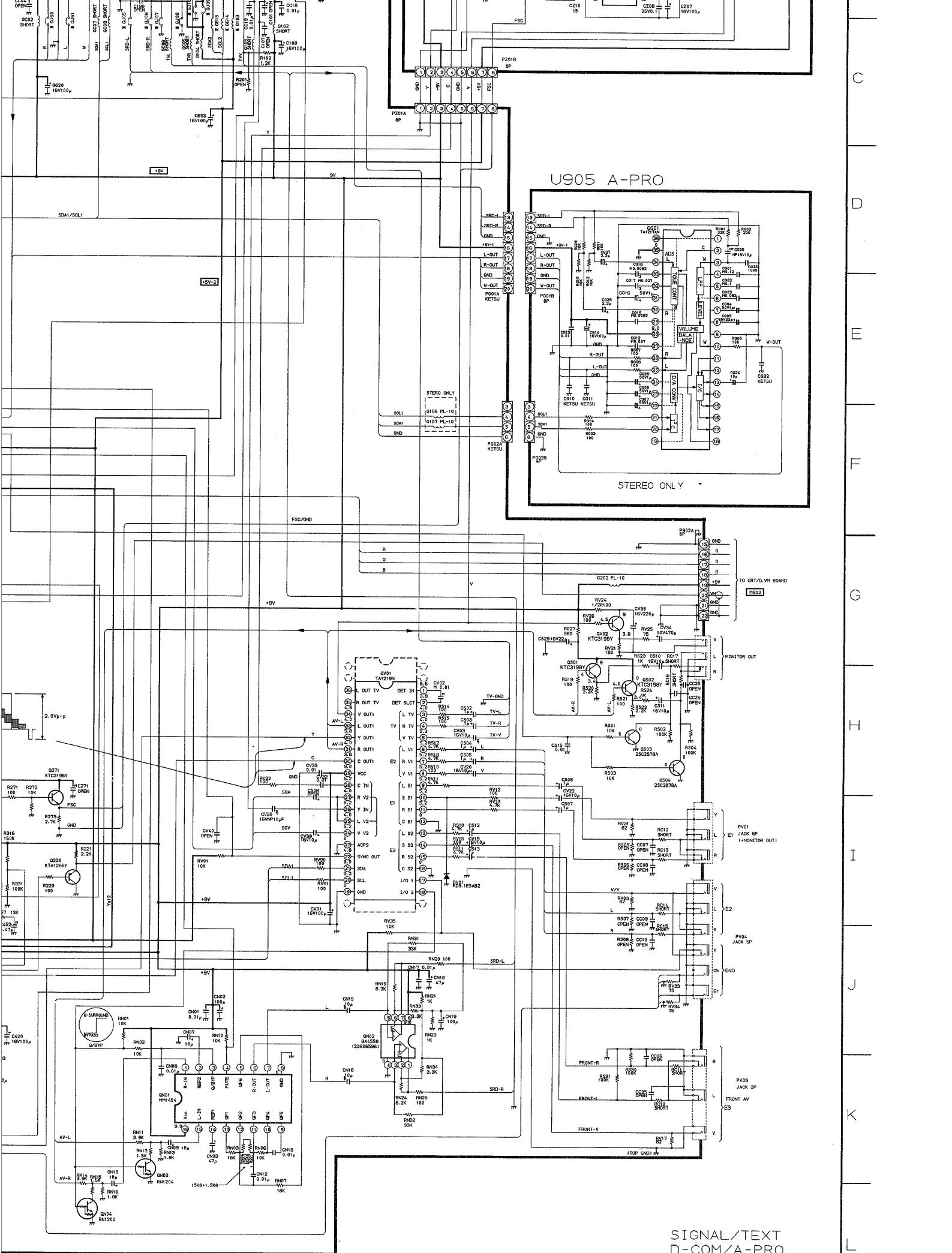


A  
 B  
 C  
 D  
 E  
 F  
 G  
 H





\* KETSU menu not necessary.



U905 A-PRO

STEREO ONLY

SIGNAL/TEXT  
 D-COM/A-PRO  
 21D7DXE 21D7XRT  
 21D7SXH 21D7XM  
 21D7XE 21D7XMJ

C  
 D  
 E  
 F  
 G  
 H  
 I  
 J  
 K  
 L

ssity.

**SCHEMATIC DIAGRAM**

**MODEL : 21D7DXE / 21D7SXH (2/2)**

**CAUTION:** The replacement hazard symbol "A" in the schematic diagram and the parts list designates components which have special characteristics important for safety and should be replaced only with types identical to those in the original design or approved equivalents. For the proper replacement of the components, read carefully the "PRODUCT SAFETY NOTICE" on page 1.

3. Do not degrade the safety of the receiver through improper servicing.

**OBSERVATION OF VOLTAGES AND WAVEFORMS**

- 1. Voltages read with VTVM from points shown to chassis ground, line voltage 220 V.
- 2. All waveforms are taken using a wide-band oscilloscope and a low-capacity probe.
- 3. Make sure the CONTRAST and COLOR controls are in mid position and BRIGHTNESS control is almost in maximum position. Set other controls for best picture.

**NOTES:**

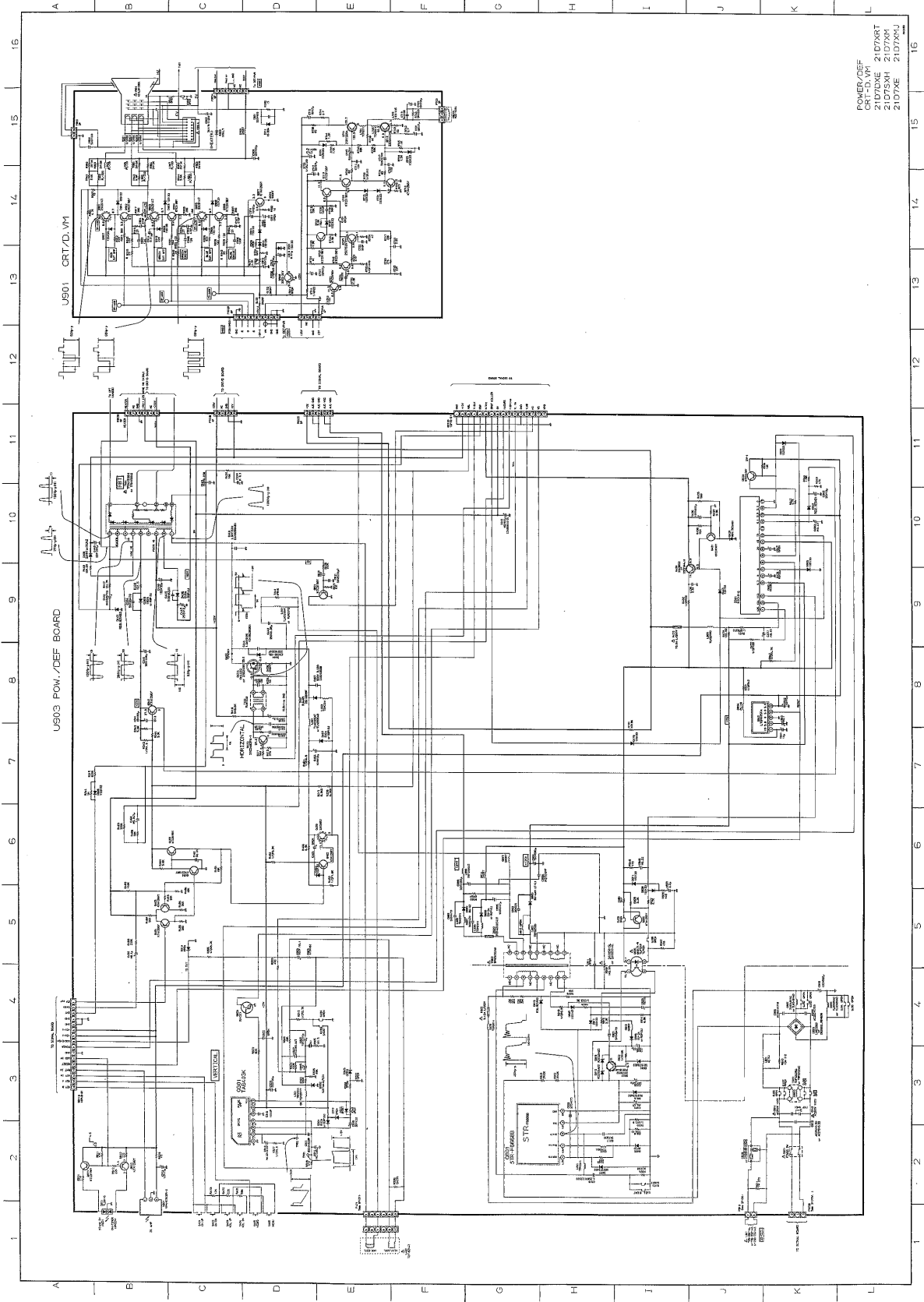
- 1. D.C. voltage or resistor value is shown in this schematic diagram.
- 2. The values are subject to change without notice.
- 3. Solder links.

**EXPRESSION**

**VALUE OF RESISTOR, CAPACITOR AND INDUCTOR**

- 1. Resistance is shown in ohm, in kΩ, in MΩ, in Ω/100,000.
- 2. Capacitance is shown in pF, in nF, in μF. Resistor values less than 1 are expressed in pF, and the value more than 1 in μF. Inductor values more than 1 are expressed in mH, and the value less than 1 in μH.

60200003





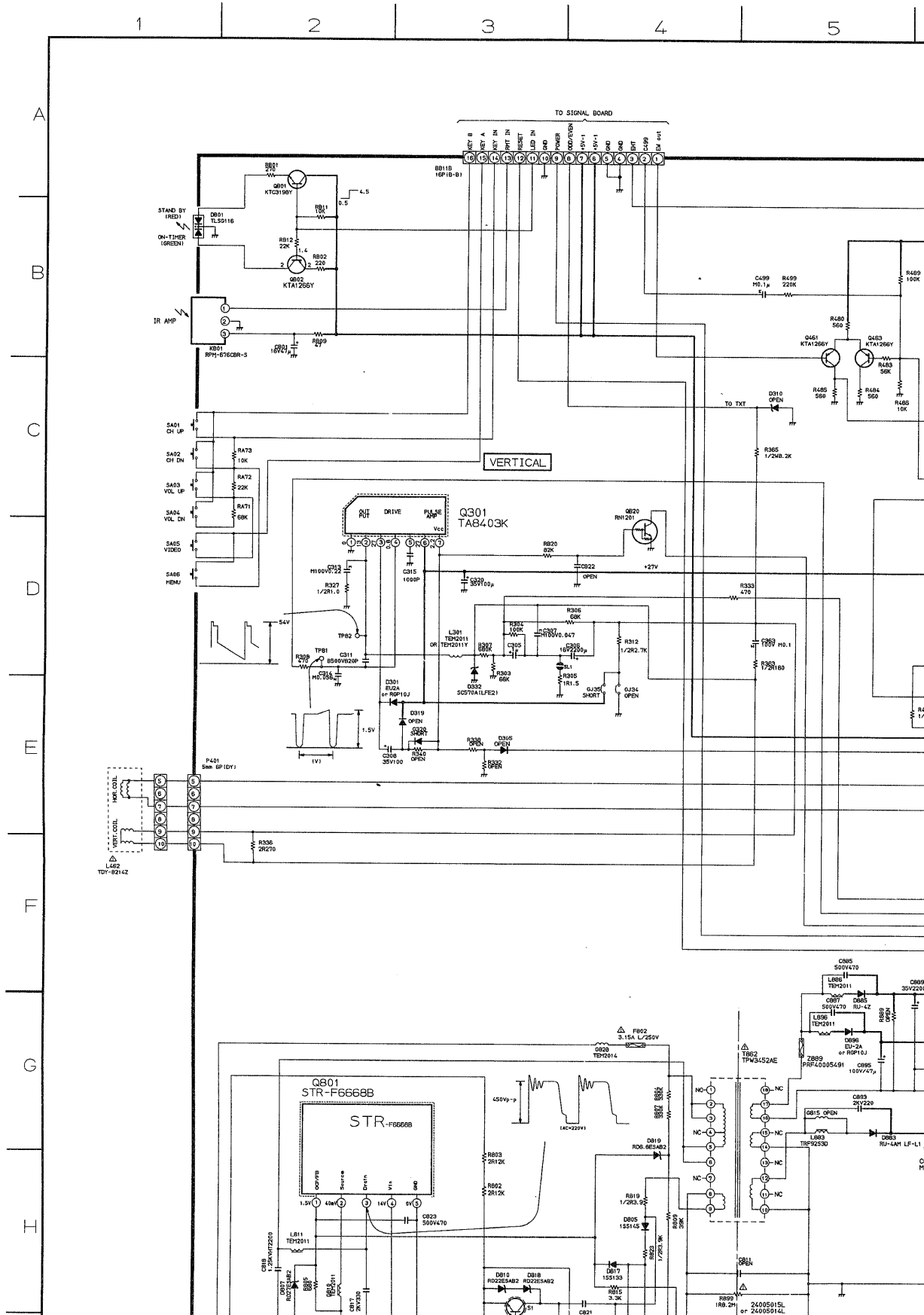
# SCHEMATIC DIAGRAM MODEL : 21D7DXE / 21D7SXH (2/2)

## OBSERVATION OF VOLTAGES AND WAVEFORM

**CAUTION:** The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on page 3. Do not degrade the safety of the receiver through improper servicing.

1. Voltages read with VTVM from point shown to volts, colour bar signal. Voltages reading may
2. All waveforms are taken using a wide band osci
3. Waveforms are taken using a standard colour
4. Make sure that CONTRAST and COLOUR c BRIGHTNESS control is almost in maximum p picture.

60200003



WAVEFORMS

shown to chassis ground, line voltage 220 V. All component values are shown in this schematic diagram may vary ±20%. Use a standard oscilloscope and a low capacity probe. All controls are in mid position and all other controls for best

NOTES:

1. D.C. resistance value of a principal transformer is shown in this schematic diagram. These are measured for separated from the circuit.
2. The circuits are subject to change without notice.
3. ● : Solder links.

VALUE OF

1. Resistance in Ω
2. Unless otherwise specified in μF
3. Unless otherwise specified in μH

6

7

8

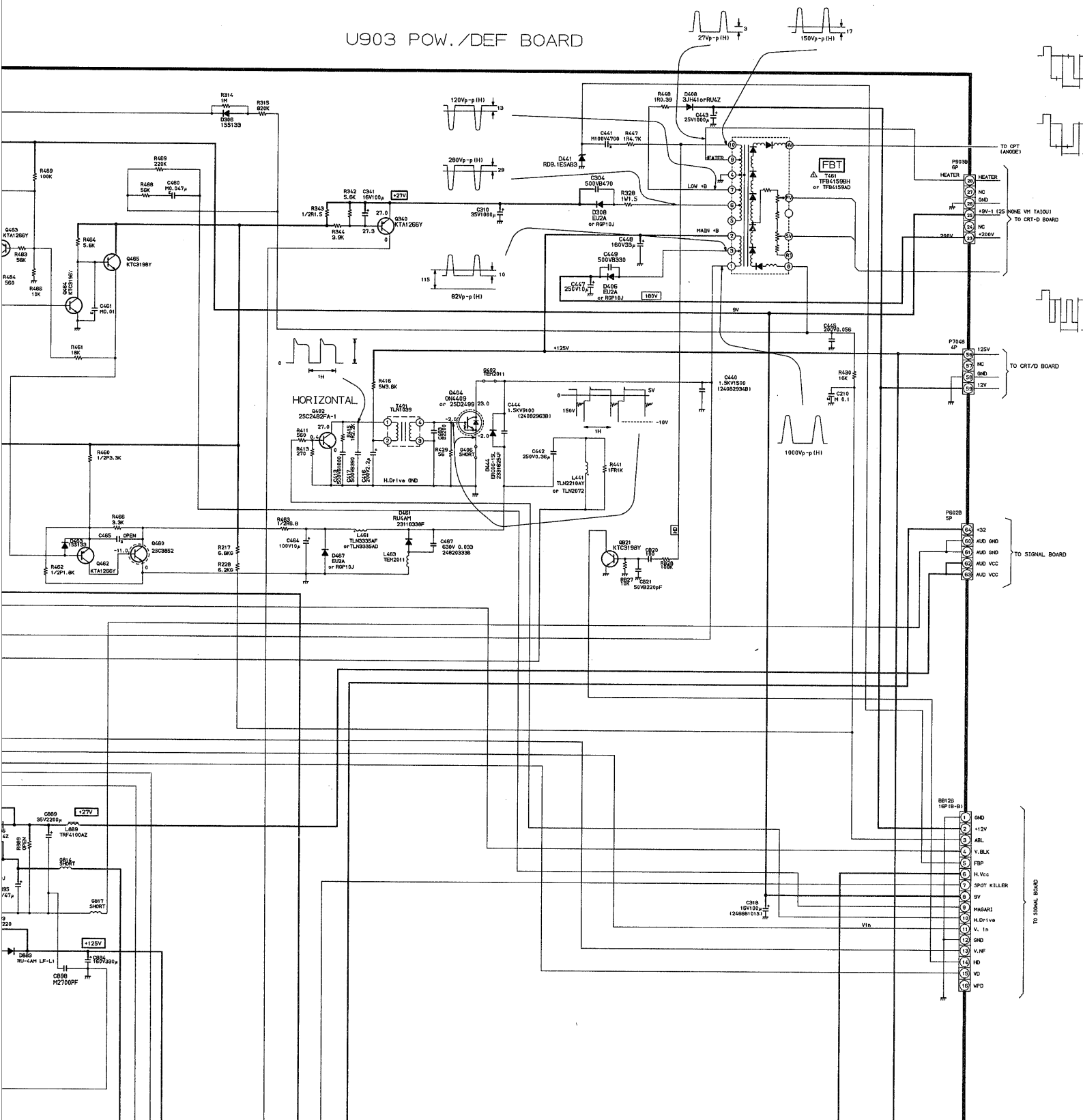
9

10

11

12

U903 POW./DEF BOARD



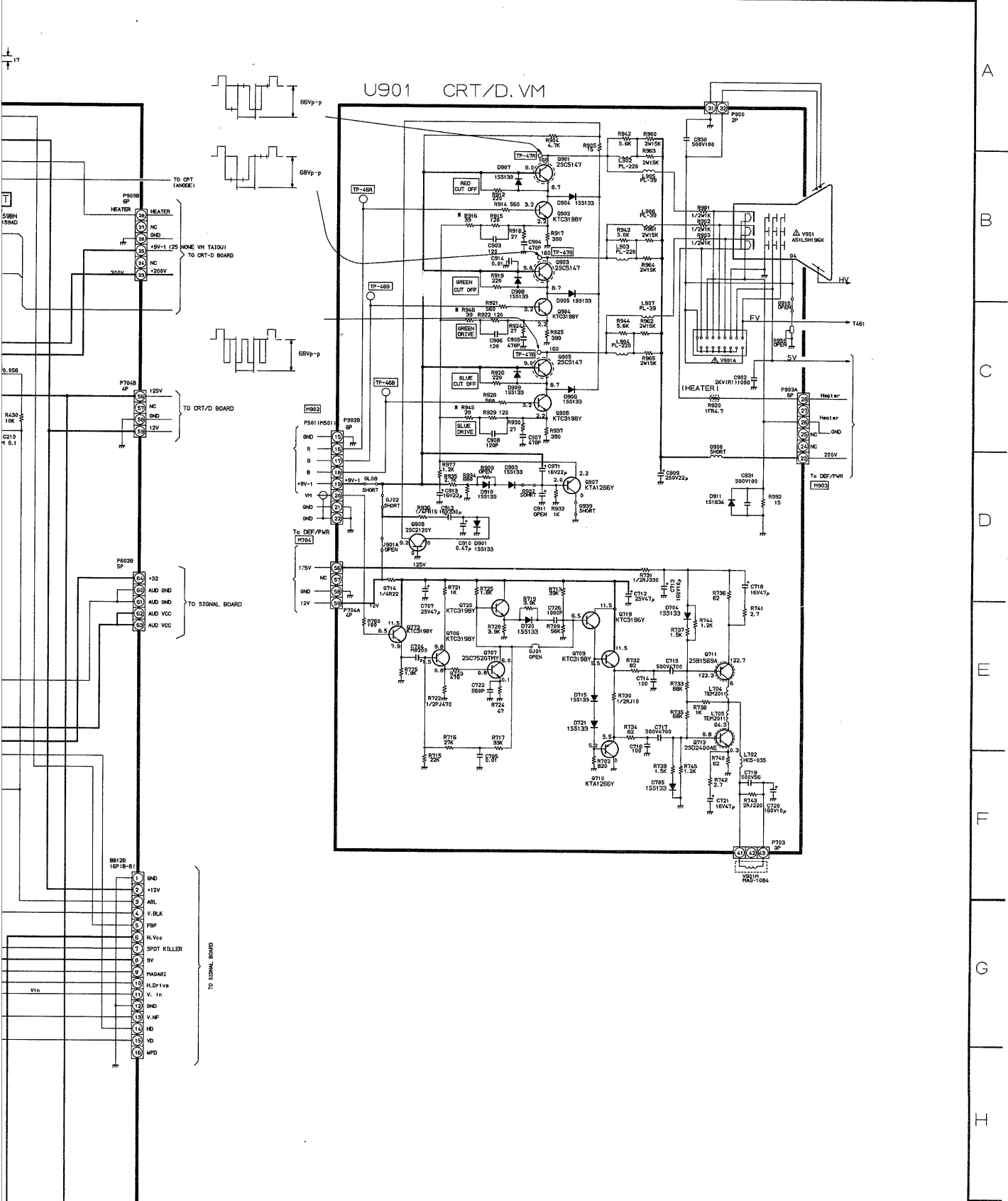
EXPRESSION

VALUE OF RESISTOR, CAPACITOR and INDUCTOR

1. Resistance is shown in ohm, k=1,000, M=1,000,000
2. Unless other wise noted in schematic, all capacitor values less than 1 are expressed in  $\mu\text{F}$  and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in  $\mu\text{H}$ , and the values less than 1 in H.

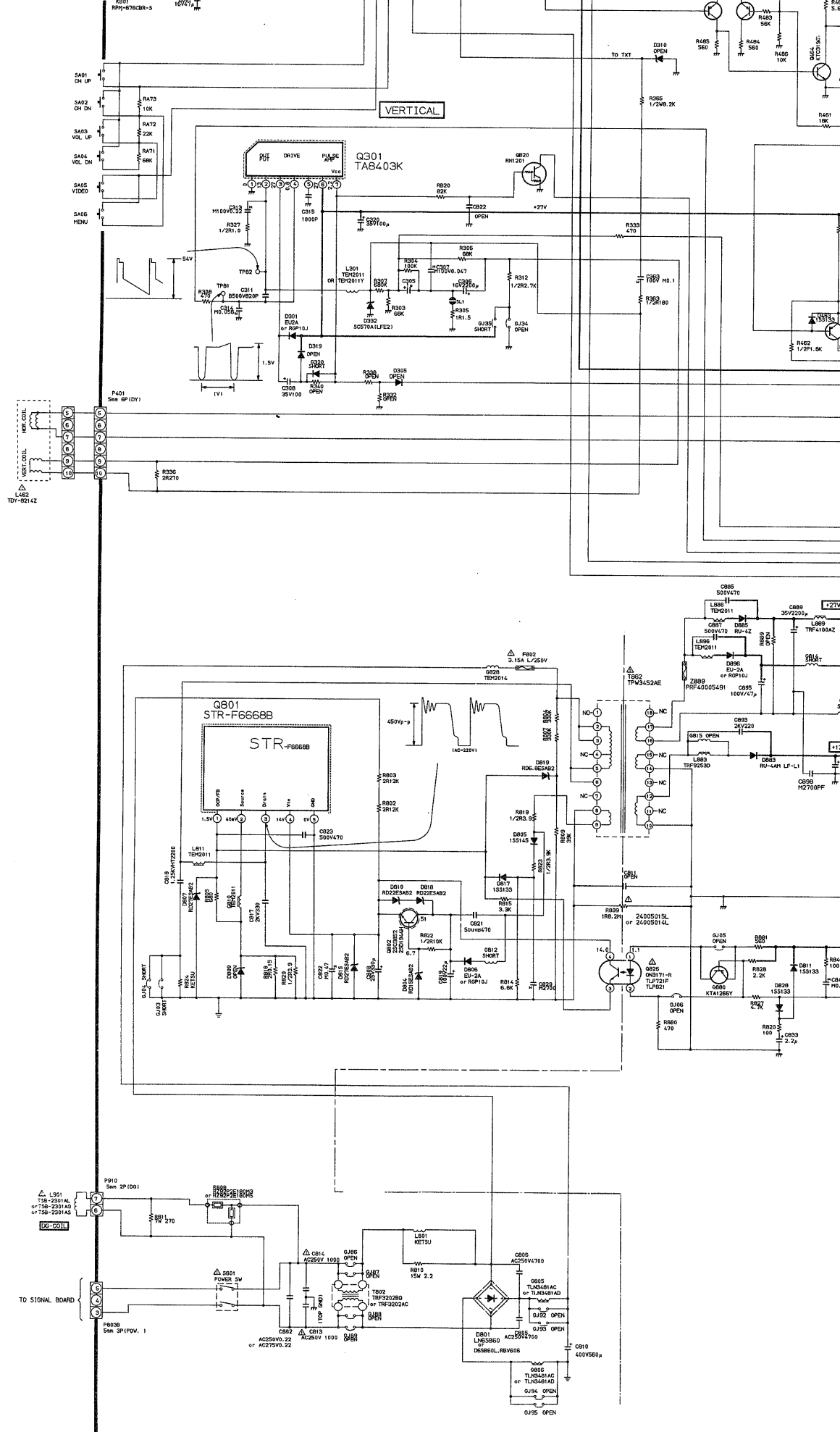
tic dia-

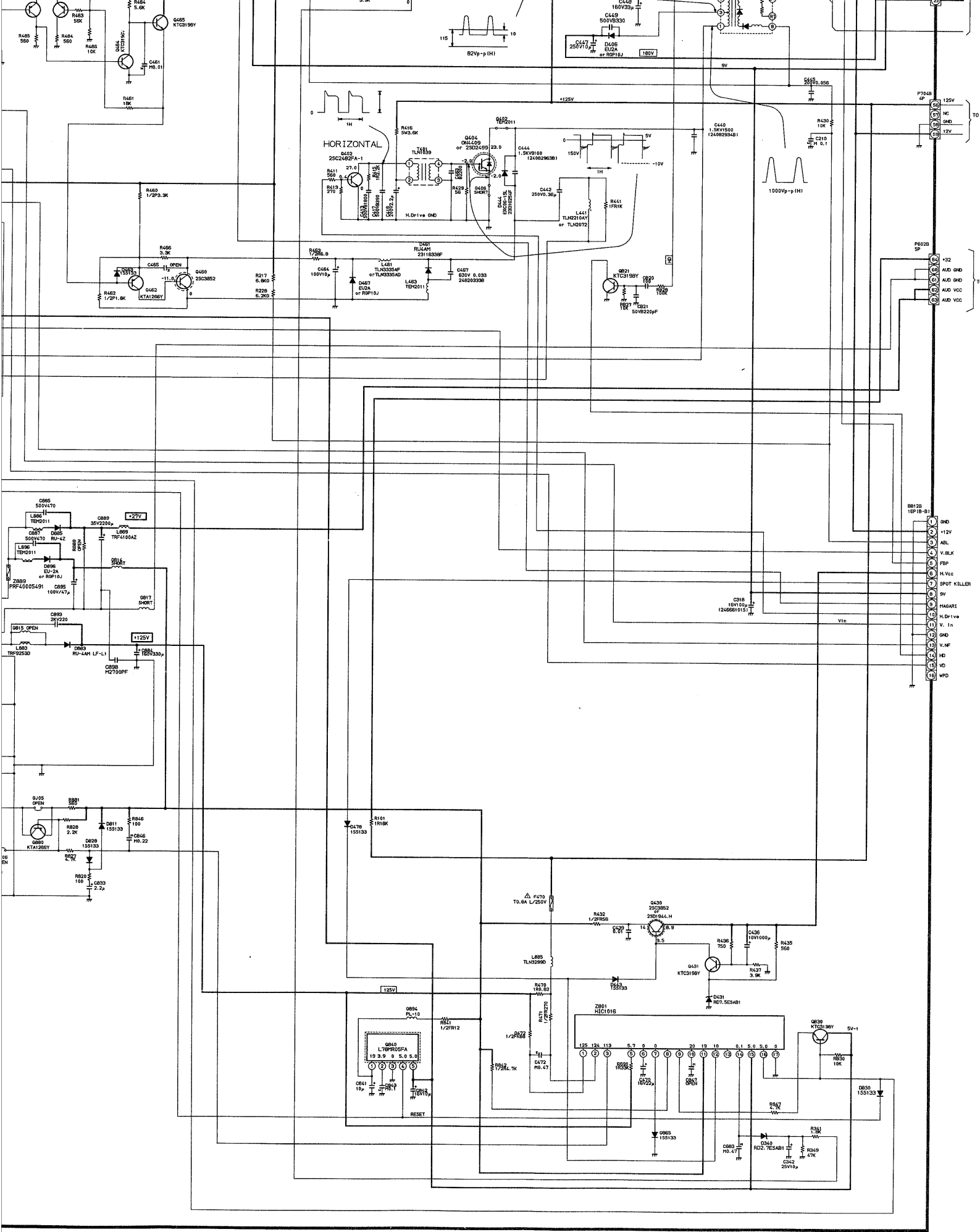
11 12 13 14 15 16

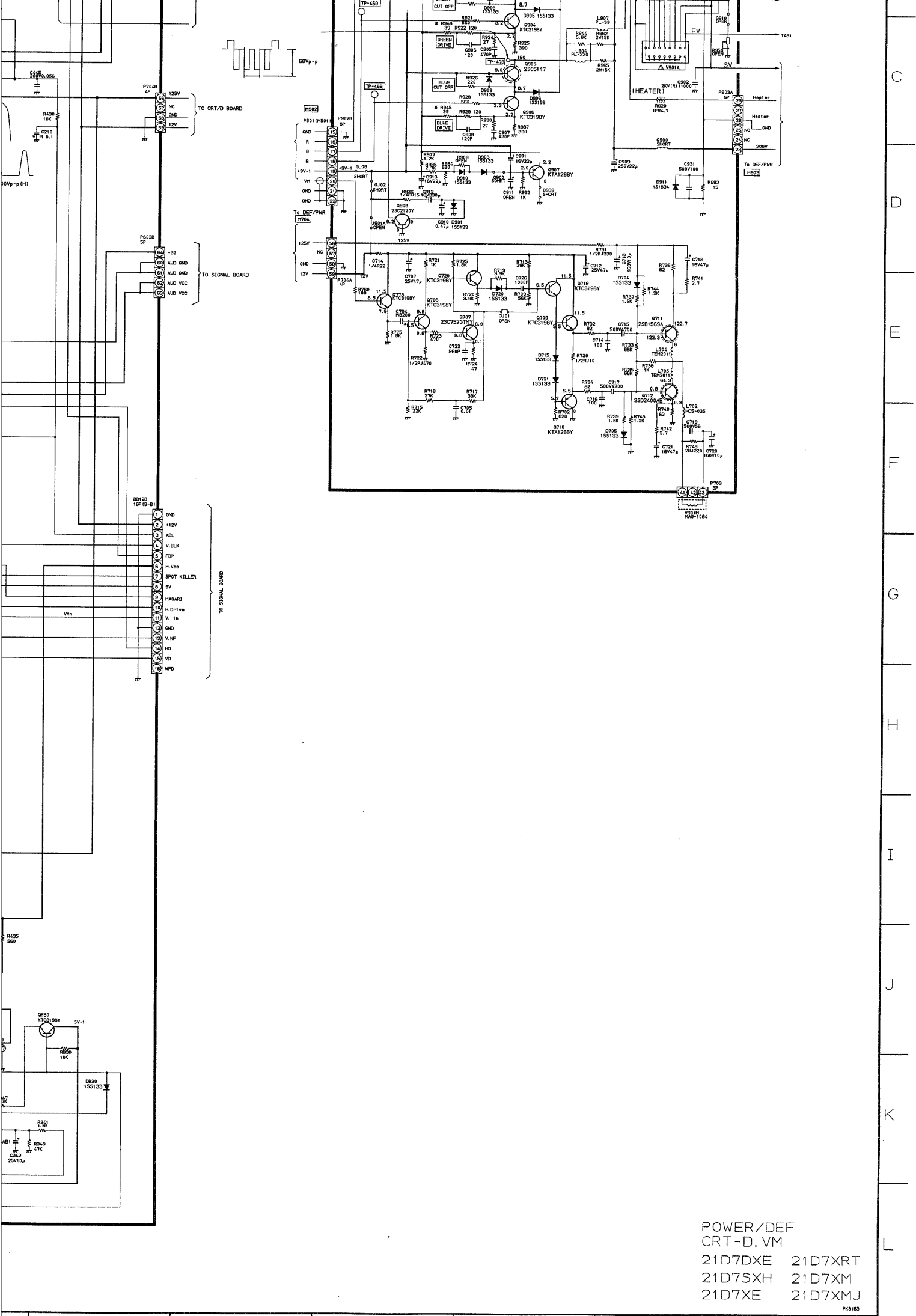


A  
B  
C  
D  
E  
F  
G  
H

C  
D  
E  
F  
G  
H  
I  
J  
K  
L







POWER/DEF  
 CRT-D.VM  
 21D7DXE 21D7XRT  
 21D7SXH 21D7XM  
 21D7XE 21D7XMJ