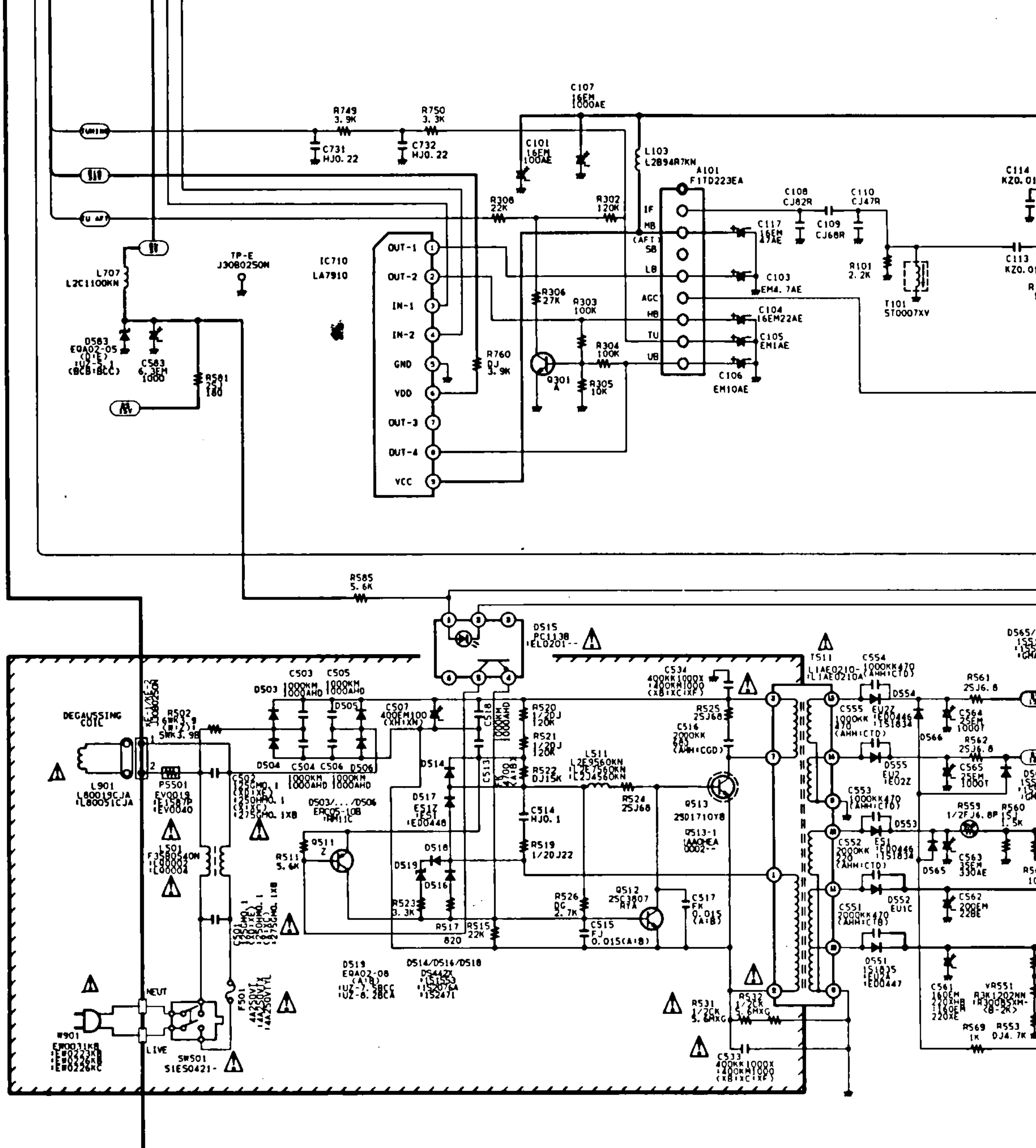


IC710 BAND SWITCH

-0.002	1
11.7V	2
3.3V	3
0V	4
-0.001	5
12.2V	6
0.1V	7
-0.004	8
11.8V	9

Q101	
	VOLT.
B	1.2V
C	0.4V
E	6.2V



THE SERVICE PRECAUTION:
The area enclosed by this line() is directly connected with AC mains voltage. When servicing the area, connect an isolating transformer between TV receiver and AC line to eliminate hazard of electric shock.

Q511	
	VOLT.
B	13.5V
C	0.8V
E	13.5V

Q512		
	VOLT.	WAVEFORM
B	-0.1V	4.2Vp-p
C	-0.1V	4.4Vp-p
E	0V	-----

Q513		
	VOLT.	WAVEFORM
B	-0.8V	5.0Vp-p
C	315V	600Vp-p
E	0V	-----

Q553	
	VOLT.
B	6.7V
C	35.5V
E	6.2V

CIRCUIT DIAGRAM NOTICE:

1. All resistance value are in ohms, K=1,000, M=1,000,000.
2. All resistance rated wattages are 1/8W unless otherwise noted.
3. Excepting electrolytic capacitors, all capacitance values of 100pF and more than 1 are pF.
4. All capacitance rated voltages are 50V unless otherwise noted.
5. All inductance values are in μ H.
6. Voltage readings taken with a "VTVM" are from point in ground. Voltage readings taken by using a colour bar signal controls at normal position. Some voltages may vary with picture.
7. Waveforms were taken with colour bar and controls adjusted for picture. Waveforms were taken by using a wide band oscilloscope.
8. This circuit diagram covers a basic or representative chassis. There may be some components or partial circuit differences between chassis and the circuit diagram.

SANYO

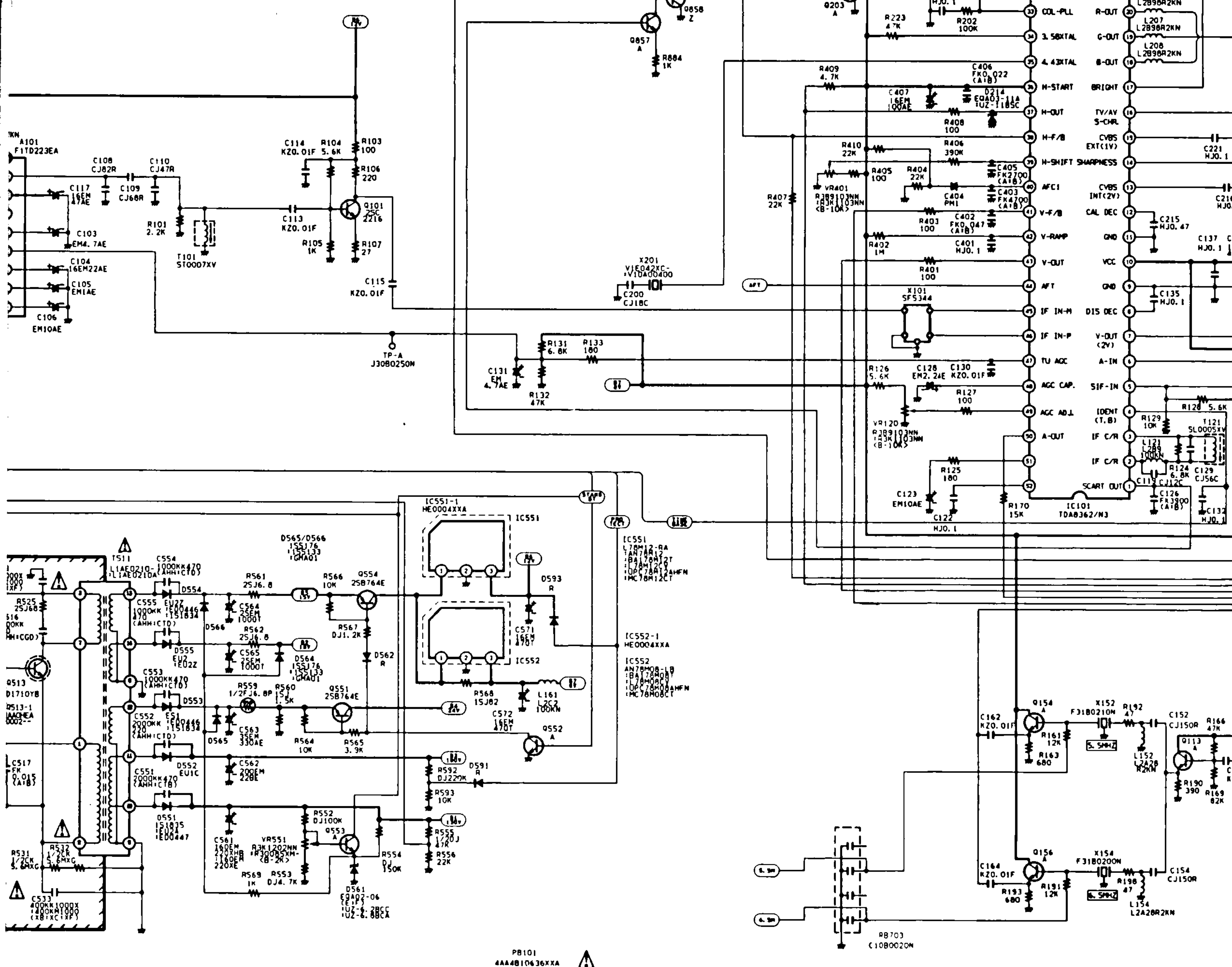
COLOUR TELEVISION

A7-A CHASSIS SERIES

SERVICE REF. NO. **C21EF63EXH - 00**
C21EF97EXH - 00

PRODUCT SAFETY NOTICE:

Product safety should be considered when a component replacement is made in any area of a receiver. Components indicated by a mark Δ in this circuit diagram show components whose values have special significance to product safety. It is particularly recommended that only parts specified on the part service manual be used for components replacement pointed out by the mark.



Q203	VOLT.
B	0.02V
C	1.6V
E	0.01V

Q202	VOLT.
B	0.6V
C	0.07V
E	-

Q154	VOLT.
B	4.7V
C	7.8V
E	4.0V

Q156	VOLT.
B	4.7V
C	7.8V
E	4.1V

9. Expression of capacitance and resistance in circuit diagram.

Capacitance(Example)

1000 C M 2000 D
 Characteristic
 Capacitance value(220pF)
 Allowable error ($\pm 20\%$)
 Kind (Ceramic)
 Rated voltage (1,000V)

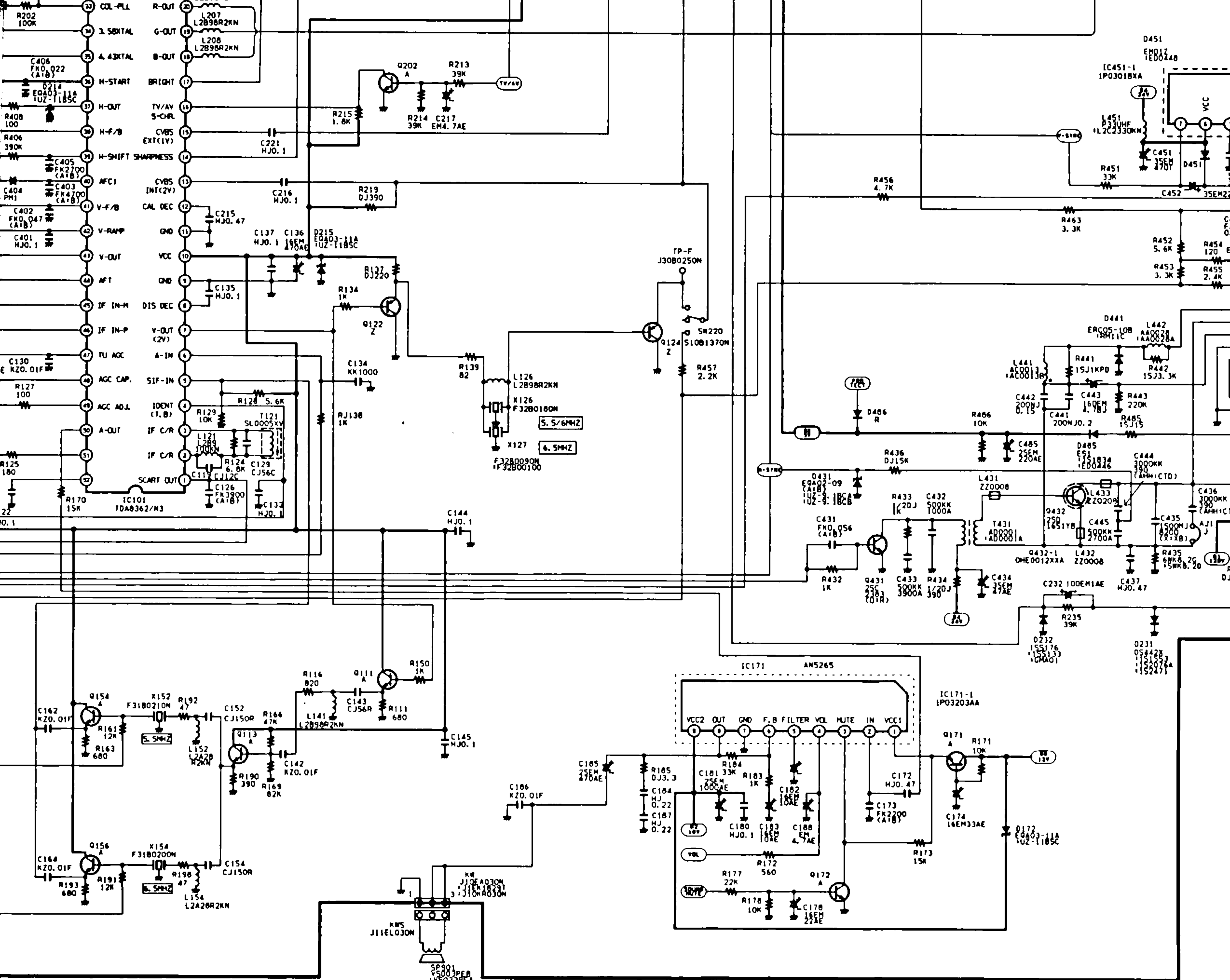
Resistance(Example)

1/2 N J 1.2
 Resistance value(1.2 Ω)
 Allowable error ($\pm 5\%$)
 Kind(M.carbon)
 Rated wattage(1/2W)

J= $\pm 5\%$
 K= $\pm 10\%$
 M= $\pm 20\%$

T.A.U.D:
 Electrolytic
 C,K,B.Ceramic
 F: Mylar film
 M,N: Polypropylene
 Z: Metalized paper

D: Carbon
 N: Metaliz carbon
 S: Oxide metalized
 W: Wire wounding
 C: Solid



Q122	
B	3.1V
C	33.1V
E	2.4V

Q124	
B	2.3V
C	0.007V
E	3.0V

Q113	
B	4.6V
C	7.8V
E	3.3V

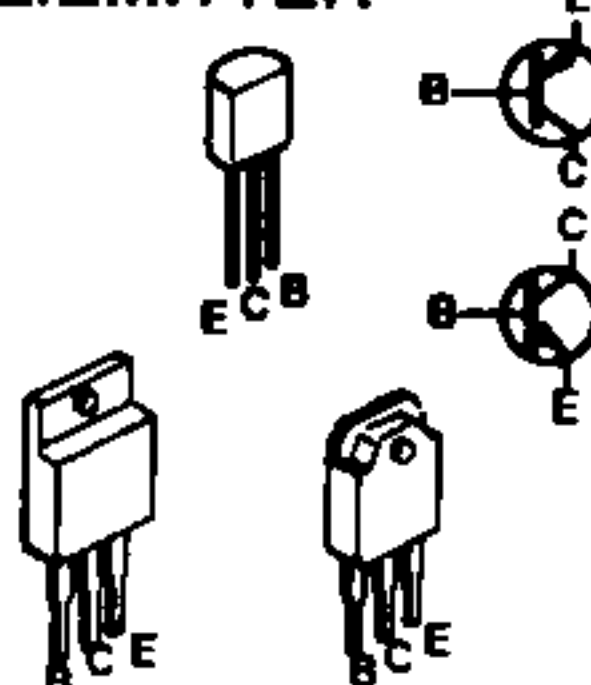
Q111	
B	3.1V
C	7.8V
E	2.4V

Q172	
B	0.6V
C	0.01V
E	0V

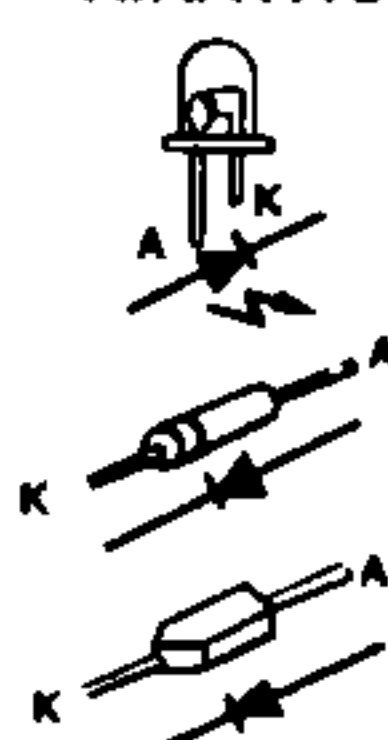
Q171	
B	11.3V
C	11.8V
E	10.6V

TRANSISTOR, DIODE AND INTEGRATED CIRCUIT TERMINAL GUIDE

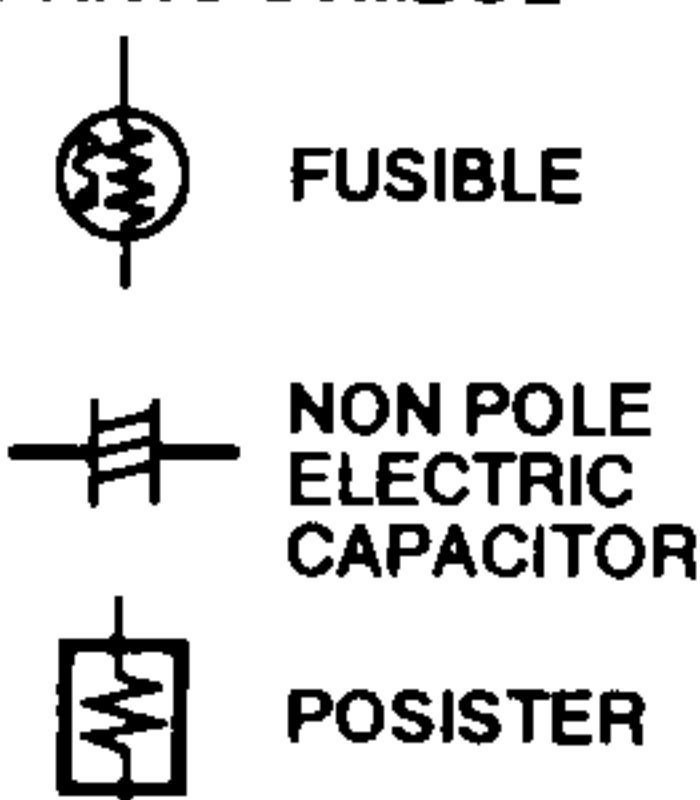
C:COLLECTOR
B:BASE
E:EMITTER

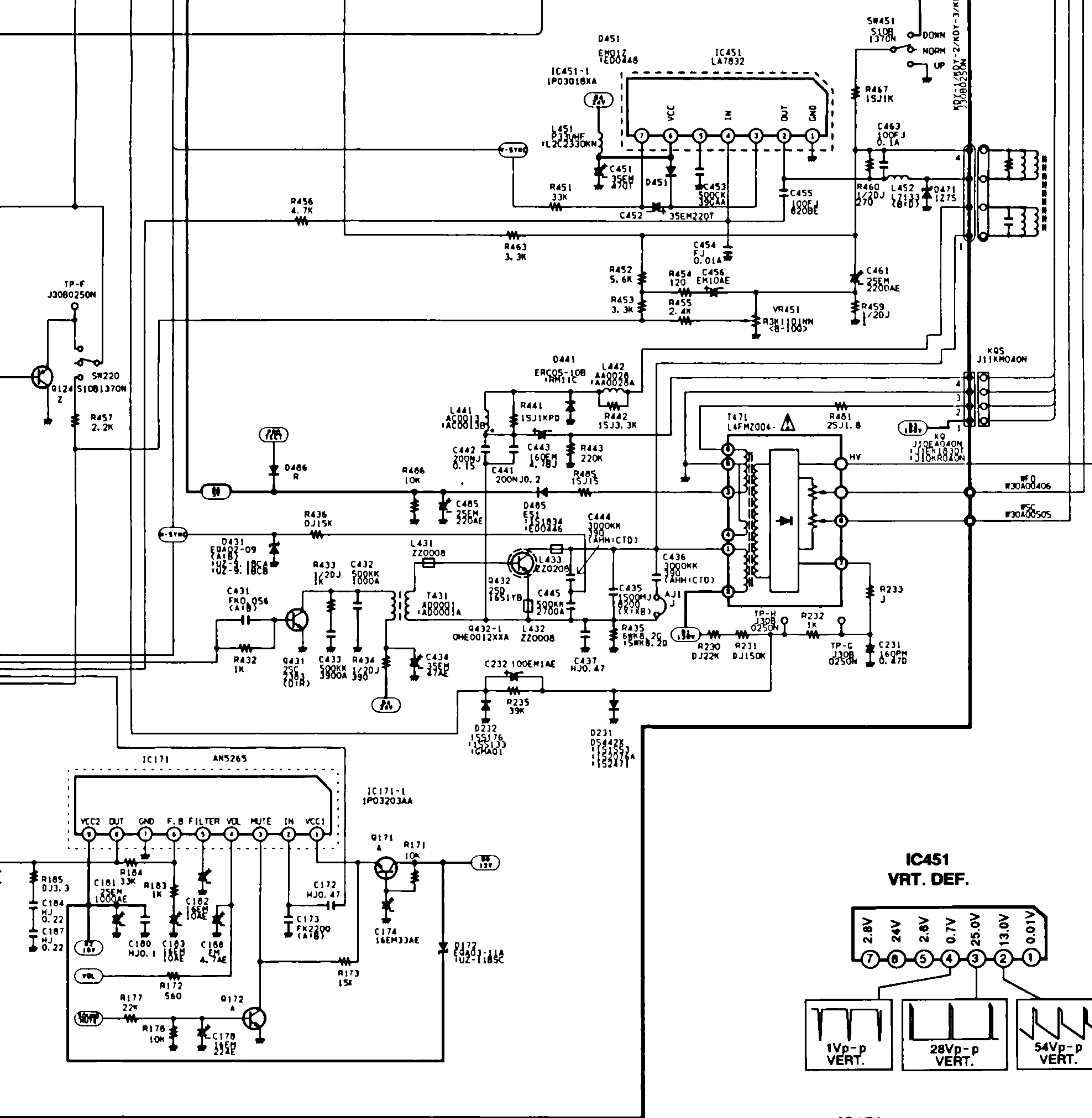


A:ANODE
K:KATHODE



PARTICULAR PARTS SYMBOL





Q432		
	Volt.	Waveform
B	2.5V	12Vp-p HORIZ.
C	116V	820Vp-p HORIZ.
E	2.5V	---

Q431		
	Volt.	Waveform
B	0.3V	0.8Vp-p HORIZ.
C	13.9V	45Vp-p HORIZ.
E	0V	---

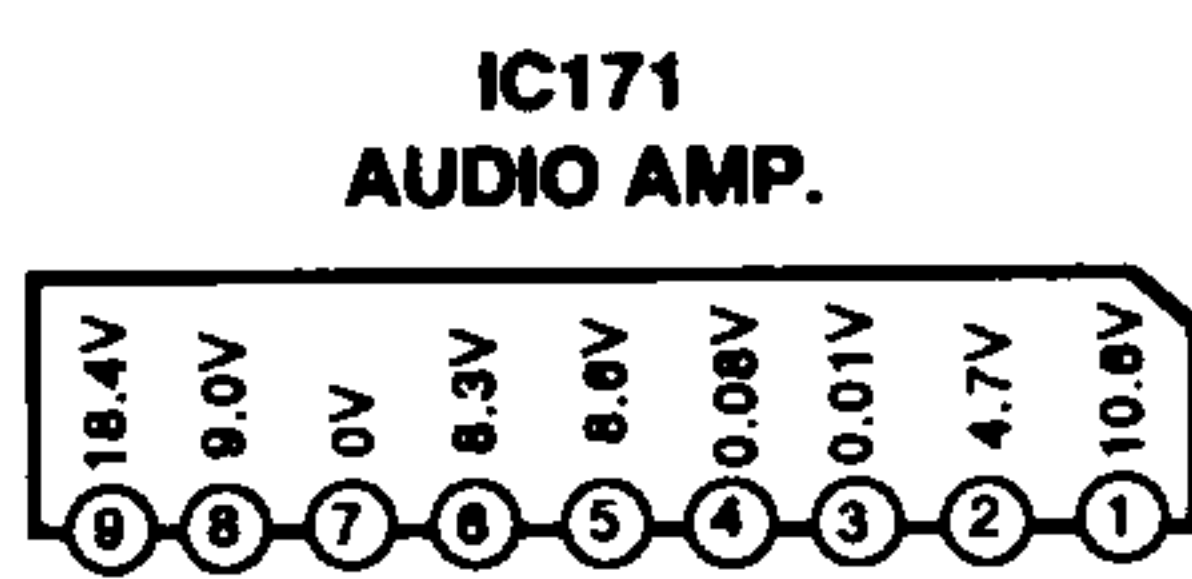
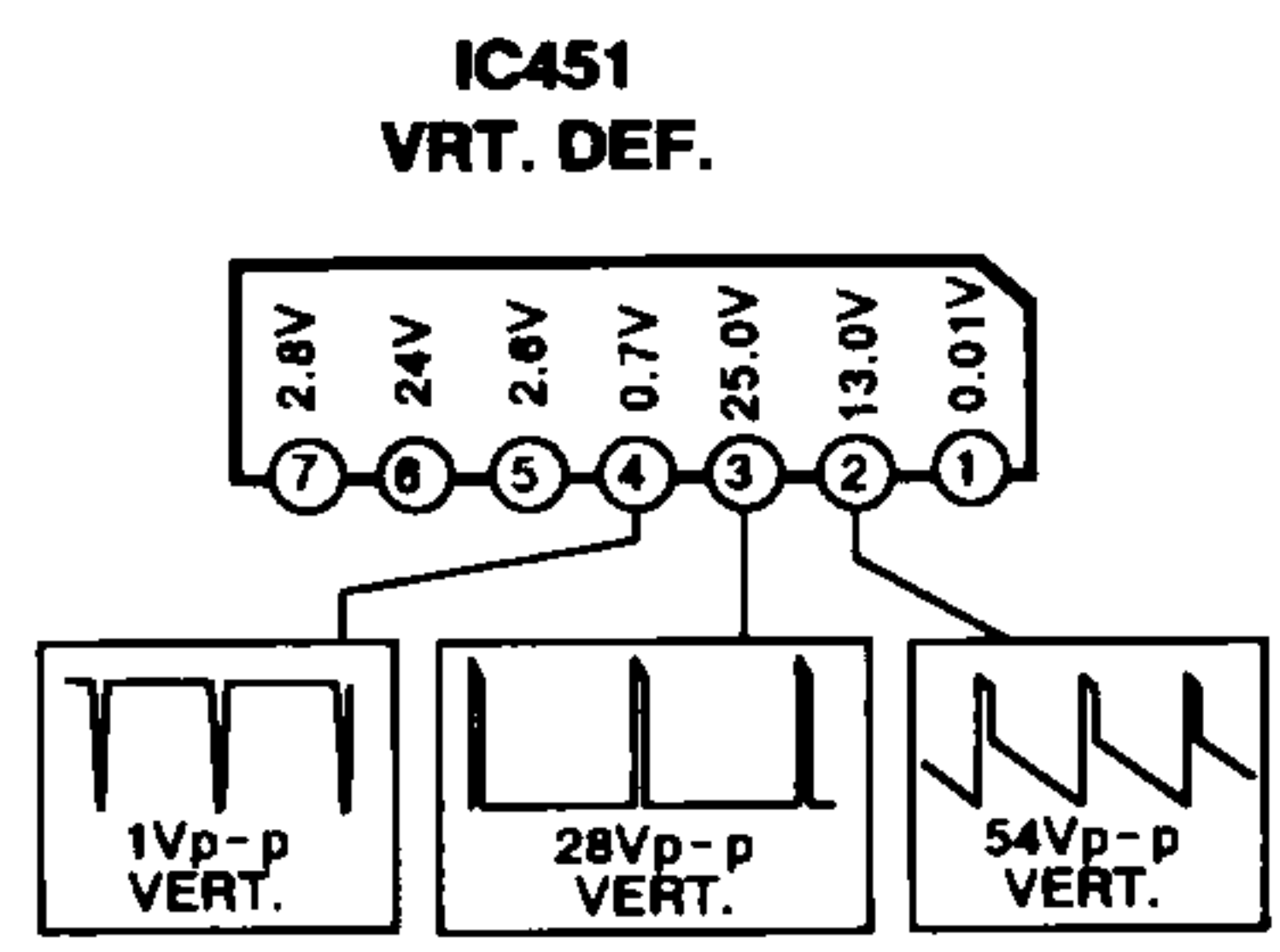
Q124	
	VOLT.
B	2.3V
C	0.007V
E	3.0V

Q113	
	VOLT.
B	4.6V
C	7.8V
E	3.3V

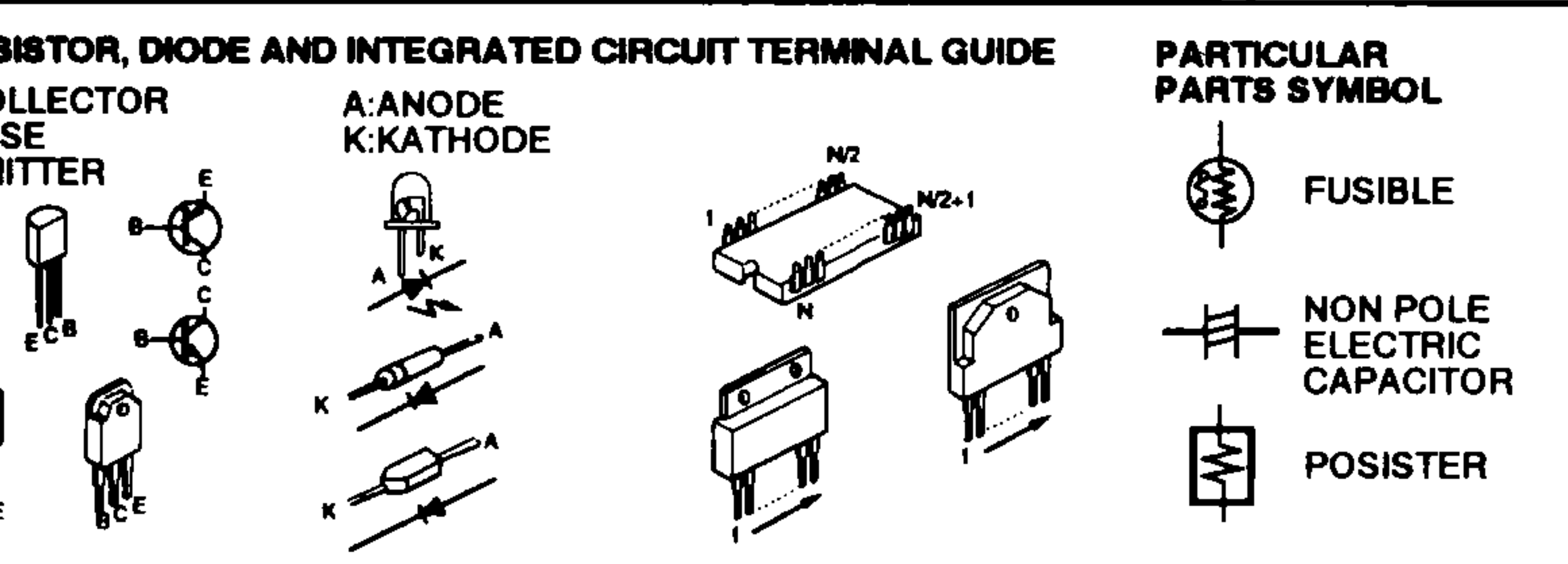
Q111	
	VOLT.
B	3.1V
C	7.8V
E	2.4V

Q172	
	VOLT.
B	0.6V
C	0.01V
E	0V

Q171	
	VOLT.
B	11.3V
C	11.8V
E	10.6V



IC101	
	VOLT.
27	5.7V
28	2.0V
29	2.6V
30	3.3V
31	3.3V
32	3.3V
33	0.1V
34	2.7V
35	2.7V
36	2.6V
37	4.2V
38	0.07V
39	3.4V
40	3.0V
41	4.2V
42	3.2V
43	0.005V
44	7.8V
45	0.01V
46	1.7V
47	3.1V
48	3.8V
49	4.9V
50	7.7V
51	5.8V
52	5.8V
53	2.9V



- Parts specified with " X " are not installed in this model.
- Parts specified with " J " are just jumper wires.

Q291	
	VOLT.
B	3.0V
C	7.8V
E	2.3V

Q856	
	VOLT.
B	3.0V
C	7.8V
E	2.4V

Q858	
	VOLT.
B	4.5V
C	0.002V
E	5.1V

IC290
TV/AV SWITCH

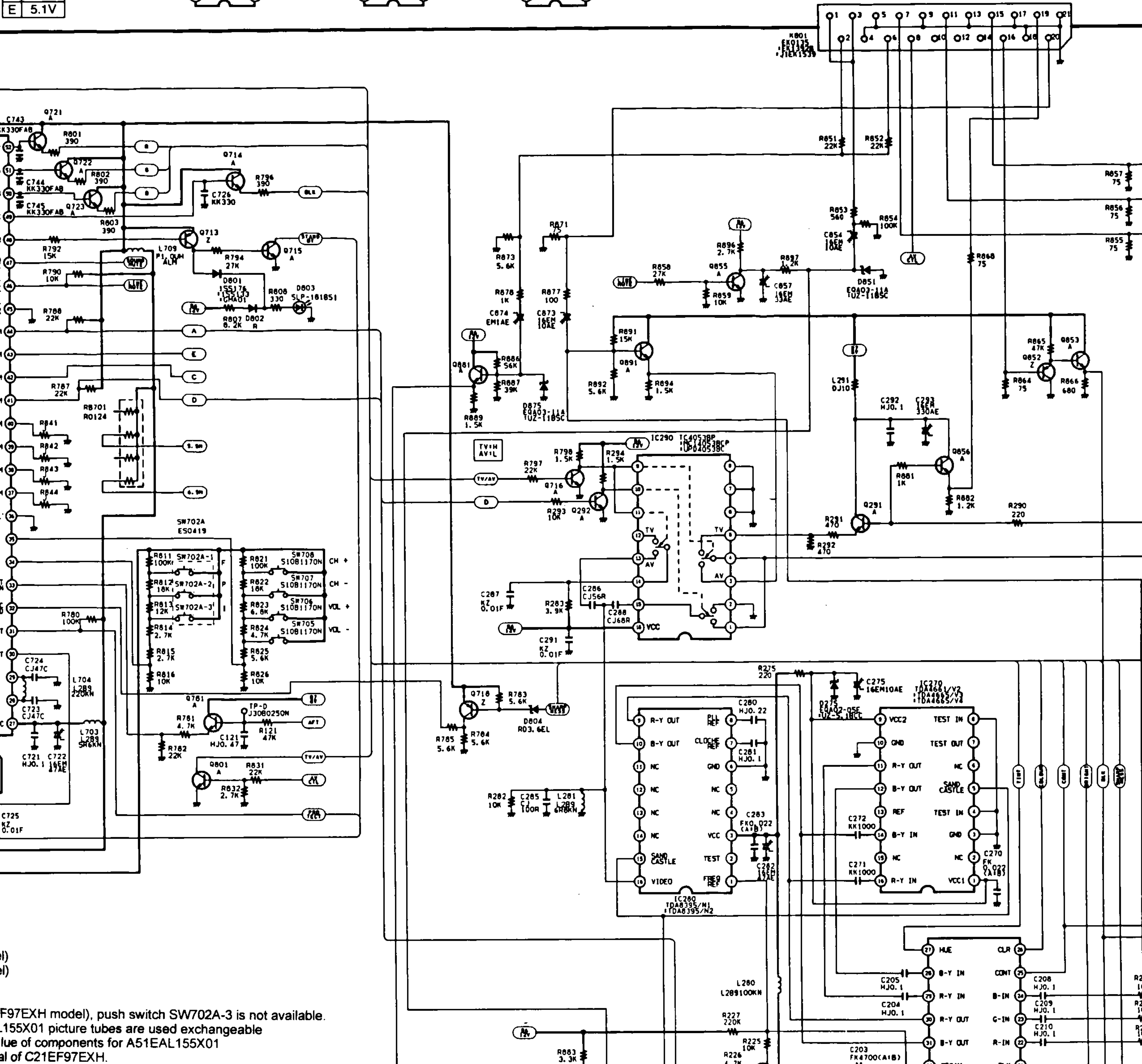
0.07V	9	0.01V	8
11.8V	10	0.01	7
0.07V	11	0.01	6
11.8V	12	1.1V	5
11.8V	13	1.1V	4
11.8V	14	1.4V	3
1.1V	15	0.003V	2
11.8V	16	1.1V	1

IC280
SECAM

1.4V	9	4.1V	8
1.4V	10	3.0V	7
1.3V	11	0.014V	6
1.2V	12	0.07V	5
1.1V	13	- V	4
1.1V	14	7.7V	3
0.8V	15	1.1V	2
0.007V	16	1.6V	1

IC270
1H DELAY

4.9V	9	0.008V	8
0.01V	10	0.7V	7
3.1V	11	0.7V	6
3.1V	12	0.8V	5
-	13	0.01V	4
1.3V	14	0.005V	3
1.2V	15	-	2
1.3V	16	4.9V	1



F97EXH model), push switch SW702A-3 is not available.
 155X01 picture tubes are used exchangeable
 value of components for A51EAL155X01
 al of C21EF97EXH.

Q1001	
	VOLT.
B	0.3V
C	4.9V
E	0.5V

Q1003	
	VOLT.
B	1.5V
C	4.9V
E	1.1V

Q1002	
	VOLT.
B	0.2V
C	4.9V
E	0.5V

Q1004	
	VOLT.
B	4.2V
C	4.9V
E	3.6V

Figure 1 shows a schematic diagram of a 16-channel differential amplifier. The input stage consists of 16 channels, each with a differential input pair (1-16). The output stage consists of 16 channels, each with a differential output pair (17-32). The input and output pairs are connected to a common bus. The input and output pairs are connected to a common bus. The input and output pairs are connected to a common bus.

NOTES

LIST OF REPLACEABLE PARTS.

(DIODE)

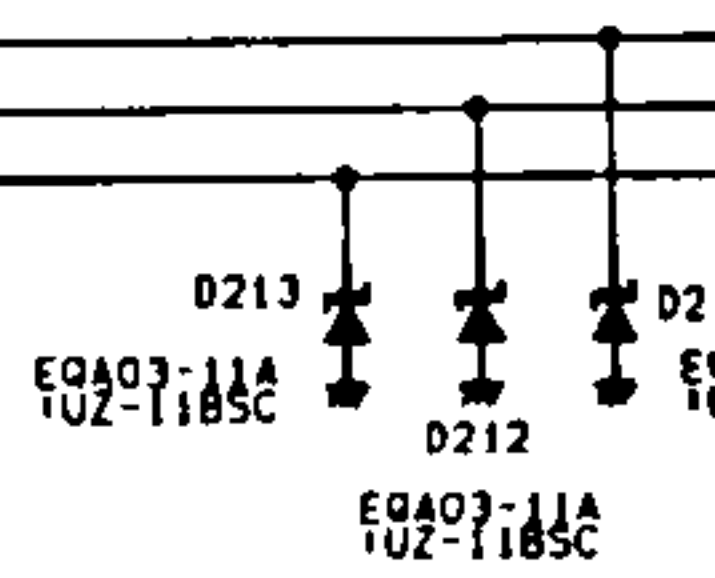
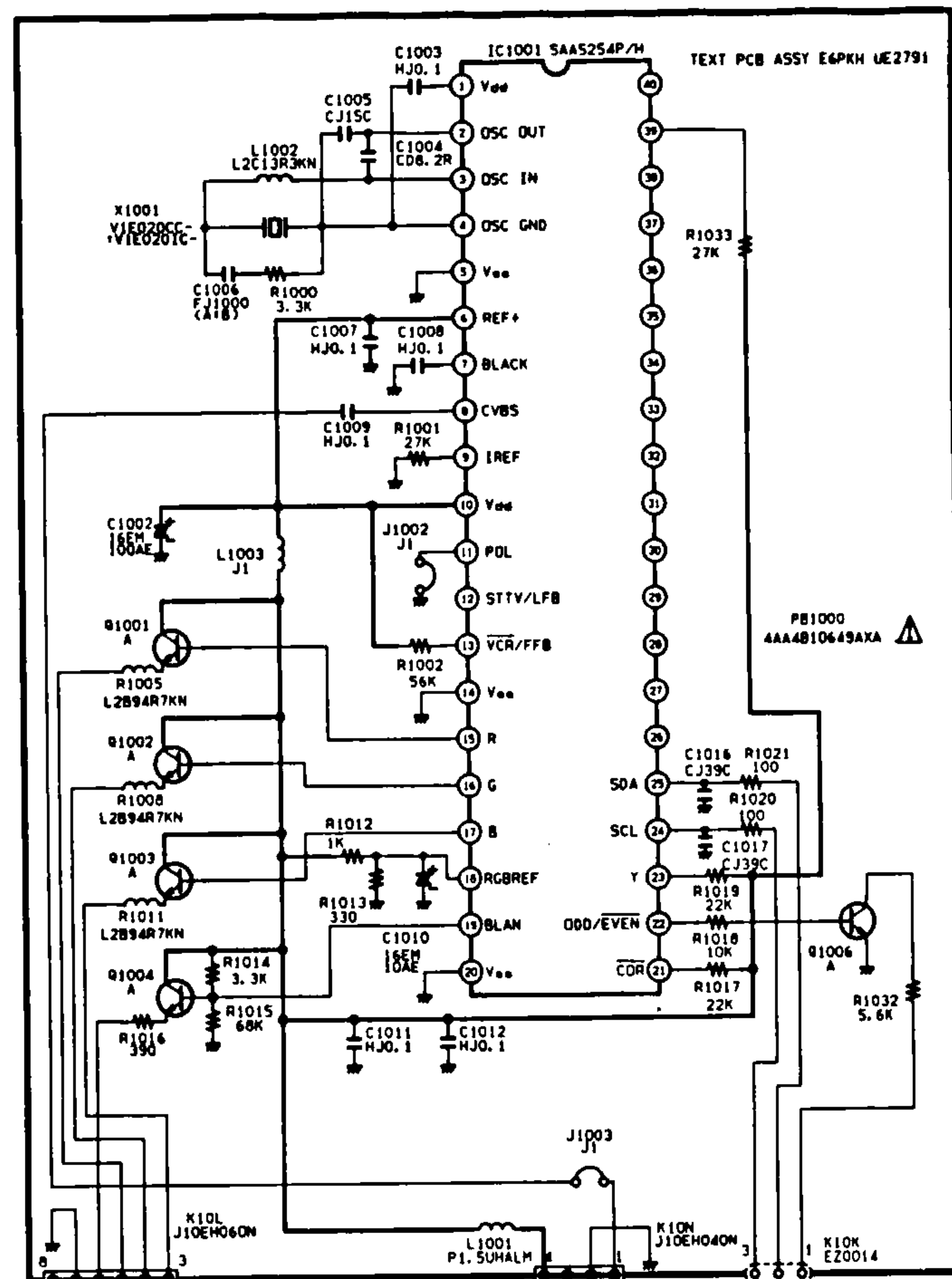
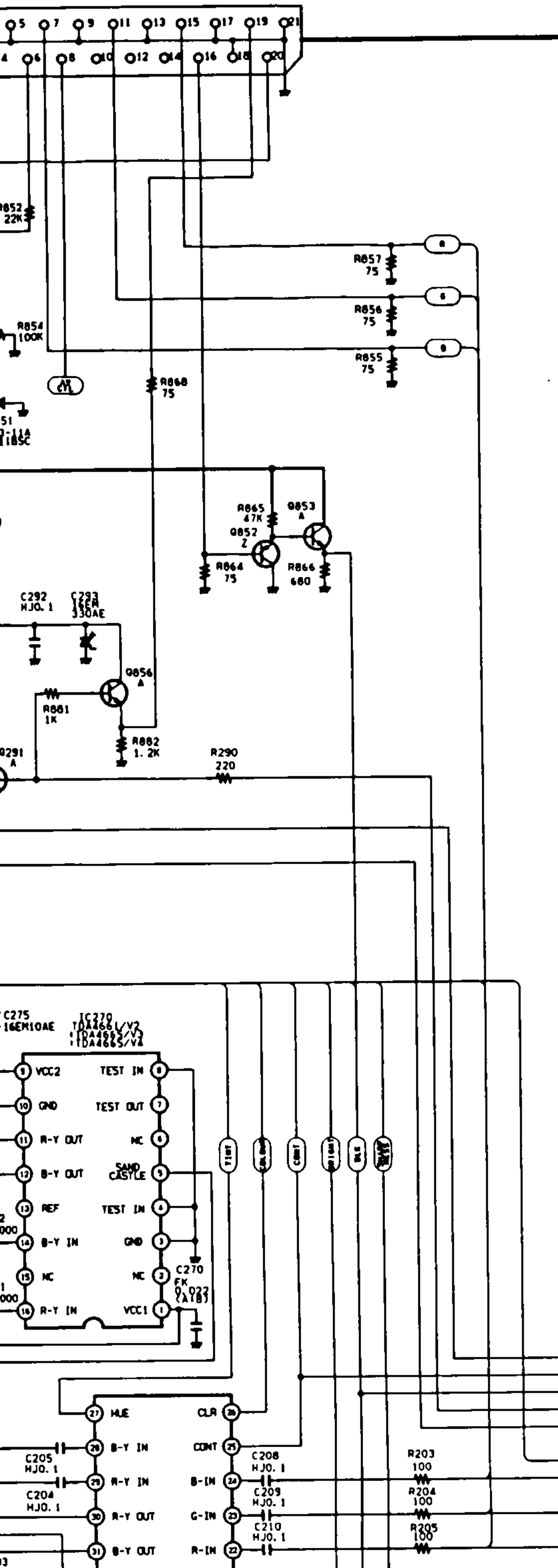
	SANYO CODE	DIODE
R	70000019	1S1555, 1S2473, 1S2076, 0S442, 1N4148

(NPN TR)

	SANYO CODE	ZSC536	ZSC945A	ZSC1815	ZSC1740	ZSC1740S
A	70T00214	E.F.C	P.Q.R	Q.Y.G	Q.R.S	Q.R.S

(PNP, TR)

	SANYO CODE	ZSA608	ZSA564A	ZSA1015	ZSA933	ZSA9335
Z	70T00418	E.F	Q.R	Q.Y.C	Q.R	Q.R



Teletext Decoder is an optional extra.

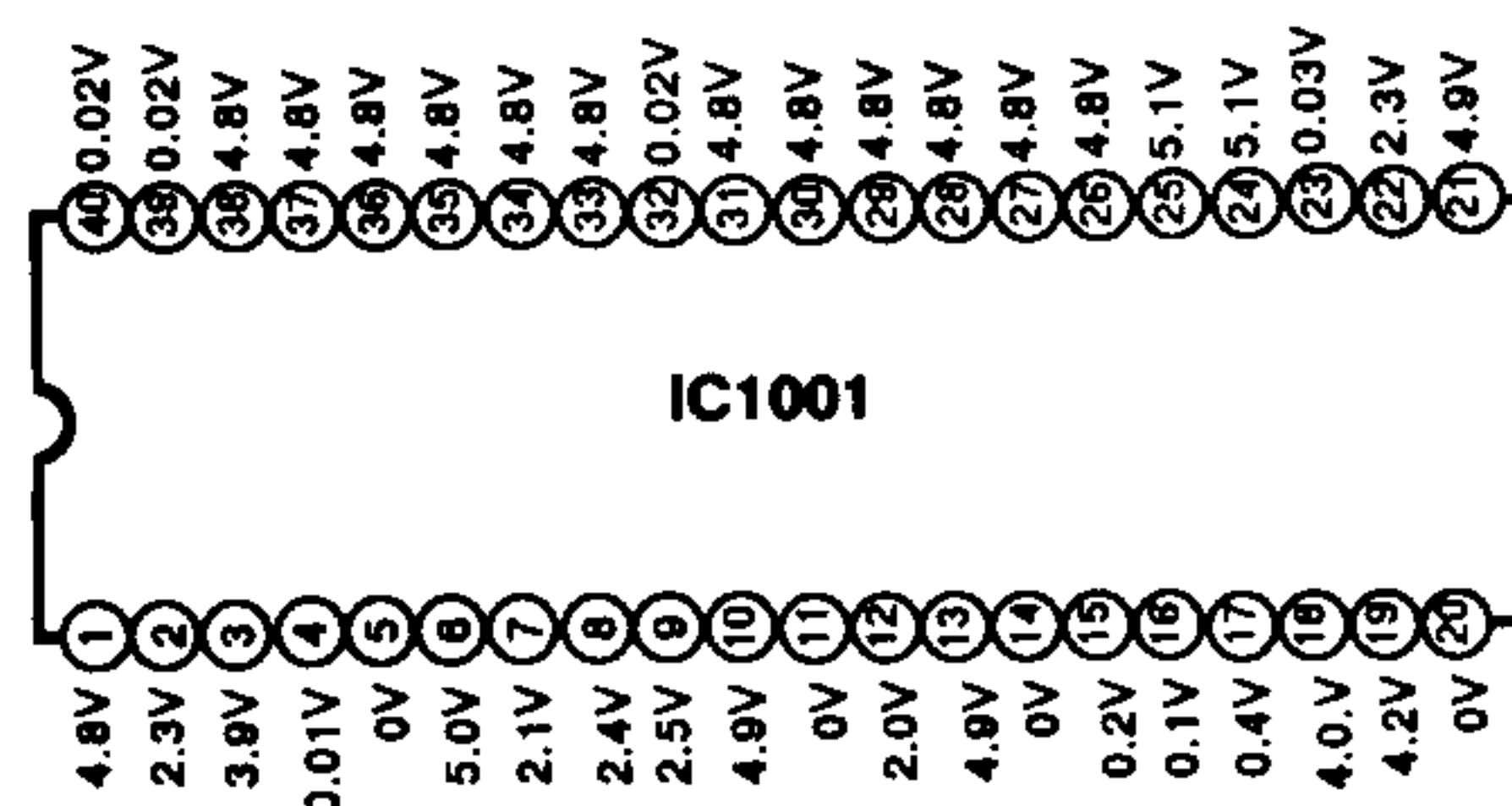
Note: Voltage rating in decoder unit taken using teletext signal.

Q1001	VOLT.
B	0.3V
C	4.9V
E	0.5V

Q1003	VOLT.
B	1.5V
C	4.9V
E	1.1V

Q1002	VOLT.
B	0.2V
C	4.9V
E	0.5V

Q1004	VOLT.
B	4.2V
C	4.9V
E	3.6V



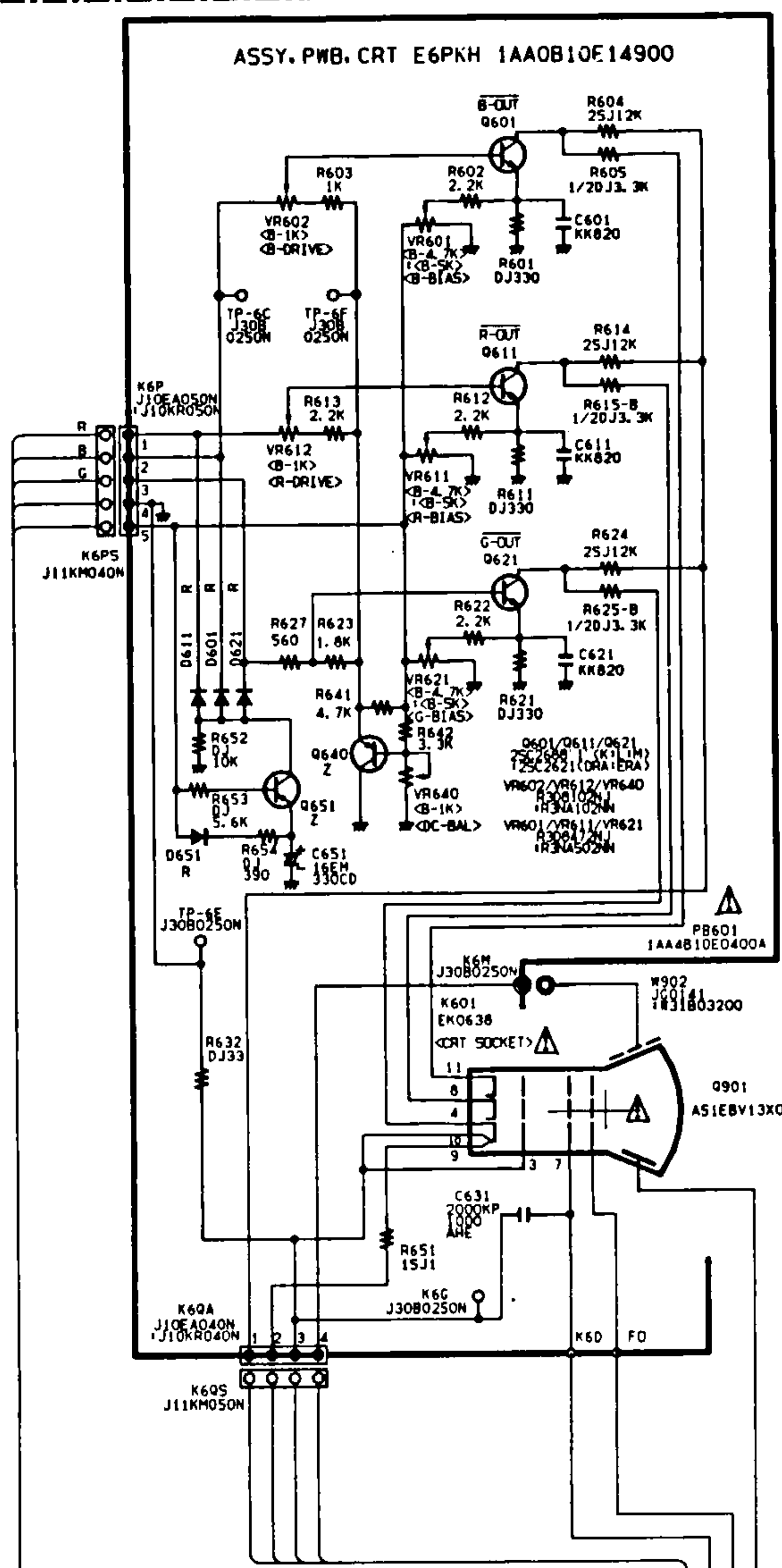
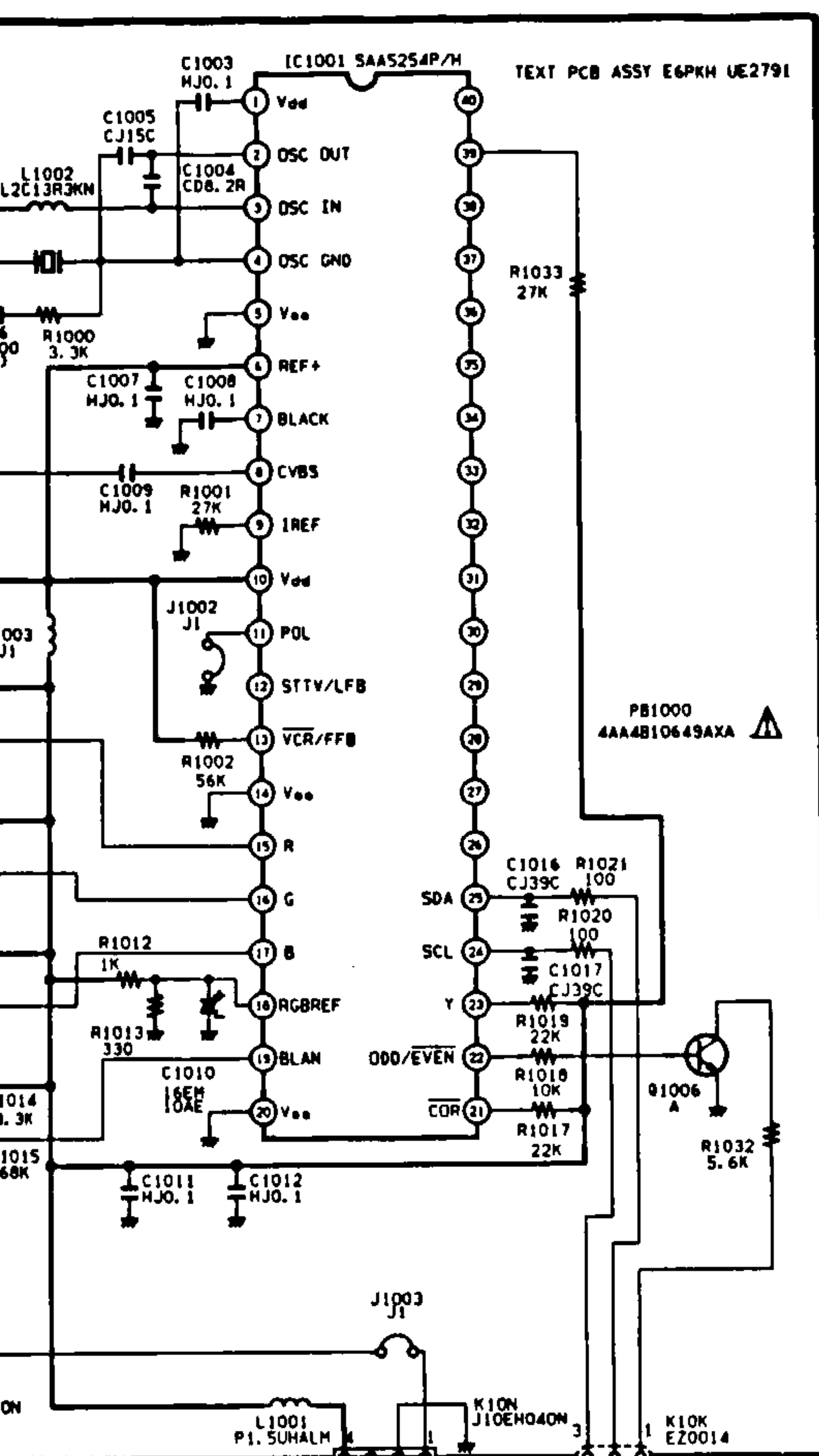
Q1006	VOLT.
B	0.6V
C	0.02V
E	-V

LIST OF REPLACEABLE PARTS.

SANYO CODE	D1 CODE
70000019	1S1555, 1S2473, 1S2076, 05442, 1N4148

SANYO CODE	25C536	25C945A	25C1815	25C1740	25C1740S
70T00214	E, F, G	P, Q, R	Q, Y, G	Q, R, S	Q, R, S

SANYO CODE	25A608	25A564A	25A1015	25A933	25A933S
70T00418	E, F	Q, R	Q, Y, G	Q, R	Q, R



Q640	VOLT.
B	1.5V
C	0.01V
E	2.0V

Q601	VOLT.	WAVEFORM
B	2.4V	2.7Vp-p(HORIZ.)
C	133V	91Vp-p(HORIZ.)
E	1.9V	---

Q611	VOLT.	WAVEFORM
B	2.0V	3.1Vp-p(HORIZ.)
C	132V	100Vp-p(HORIZ.)
E	2.5V	---

Q621	VOLT.	WAVEFORM
B	2.0V	3.0Vp-p(HORIZ.)
C	128V	94Vp-p(HORIZ.)
E	2.5V	---

