

SERVICE PRECAUTION:
 THE AREA ENCLOSED BY THIS LINE (---) IS DIRECTLY CONNECTED WITH AC MAINS VOLTAGE. WHEN SERVICING THE CHASSIS, THE MAINS VOLTAGE SHOULD BE KEPT OFF THE RECEIVER AND AC LINE TO ELIMINATE HAZARD OF ELECTRIC SHOCK.

COLOUR TELEVISION

SANYO A3 CHASSIS SERIES

SERVICE REF. NO. CEM2140P-00

Q511	VOLT.
B	10V
C	-0.8V
E	10.8V

Q512	WAVEFORM
B	-2.7V
C	-1.5V
E	0V

Q513	WAVEFORM
B	-1.5V
C	200V
E	0V

Q551	VOLT.
B	23.5V
C	24V
E	24V

Q552	VOLT.
B	0.7V
C	0.1V
E	0V

Q553	VOLT.
B	7V
C	40V
E	6.5V

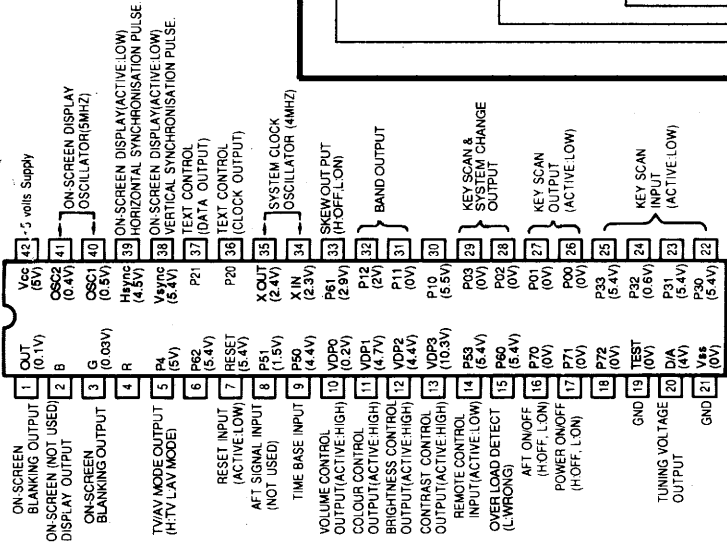
Q110	VOLT.
B	10V
C	12V
E	9V

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 VALUE HAVE SPECIAL SIGNIFICANCE TO PRODUCT SAFETY. IT IS PARTICULARLY RECOMMENDED THAT ONLY PARTS SPECIFIED ON THE PARTS LIST OF SERVICE MANUAL BE USED FOR COMPONENTS REPLACEMENT POINTED OUT BY THE MARK Δ.

CIRCUIT DIAGRAM NOTES:
 1. ALL RESISTANCE VALUES ARE IN OHMS, EXCEPT WHERE SHOWN OTHERWISE.
 2. ALL RESISTANCE RATED WATTAGES ARE 1/4W UNLESS OTHERWISE NOTED.
 3. EXCEPTING ELECTROLYTIC CAPACITORS, ALL CAPACITANCE VALUES OF LESS THAN 1000 P.F. ARE IN P.F.
 4. ALL CAPACITANCE VALUES ARE IN μF UNLESS OTHERWISE NOTED.
 5. ALL CAPACITANCE RATED VOLTAGES ARE IN VDC UNLESS OTHERWISE NOTED.
 6. VOLTAGE READINGS TAKEN WITH A "VTVM" ARE FROM POINT INDICATED TO CHASSIS GROUND. VOLTAGE READINGS TAKEN BY USING A COLOUR BAR SIGNAL ARE WITH ALL CONTROLS AT NORMAL AND AFC SWITCH IN "OFF" POSITION.
 7. SOME VOLTAGES MAY VARY WITH SIGNAL STRENGTH.
 8. WAVEFORMS WERE TAKEN WITH SIGNAL BARS AND CONTROLS ADJUSTED FOR NORMAL PICTURE. WAVEFORMS WERE TAKEN BY USING A WIDE BAND OSCILLOSCOPE AND A LOW CAPACITY PROBE.
 9. VOLTAGE AND WAVEFORM VALUES OF TRANSISTORS IN THE AREA ENCLOSED BY LINE (---) ARE MEASURED TO BASE THE ELECTRIC POTENTIAL AT PIN 3 OF T81.
 10. THIS CIRCUIT DIAGRAM COVERS A BASIC OR REPRESENTATIVE CHASSIS ONLY. THERE MAY BE SOME COMPONENTS OR PARTIAL CIRCUIT DIFFERENCES BETWEEN THE ACTUAL CHASSIS AND THE CIRCUIT DIAGRAM.

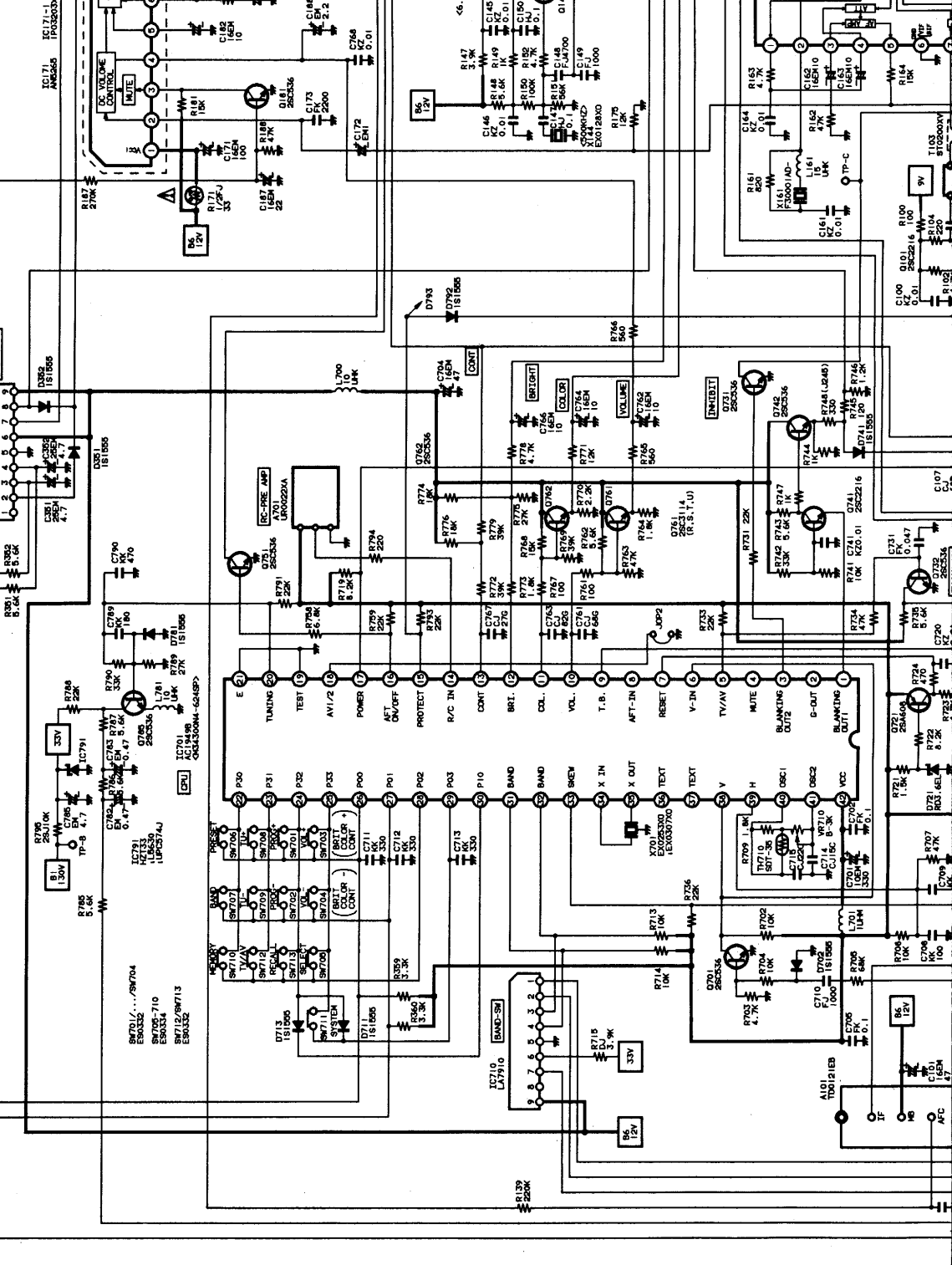
10. EXPRESSION OF CAPACITANCE AND RESISTANCE IN CIRCUIT DIAGRAM
 CAPACITANCE (EXAMPLE)
 1000 C M 2200P D
 Characteristic Capacitance value (2200pF)
 Allowable error (±20%)
 Kind (Ceramic)
 Rated voltage (1000V)
 RESISTANCE (EXAMPLE)
 1/2 N J 1.2
 Resistance value (1.2Ω)
 Allowable error (±5%)
 Kind (Metallized carbon)
 Rated Wattage (1/2W)

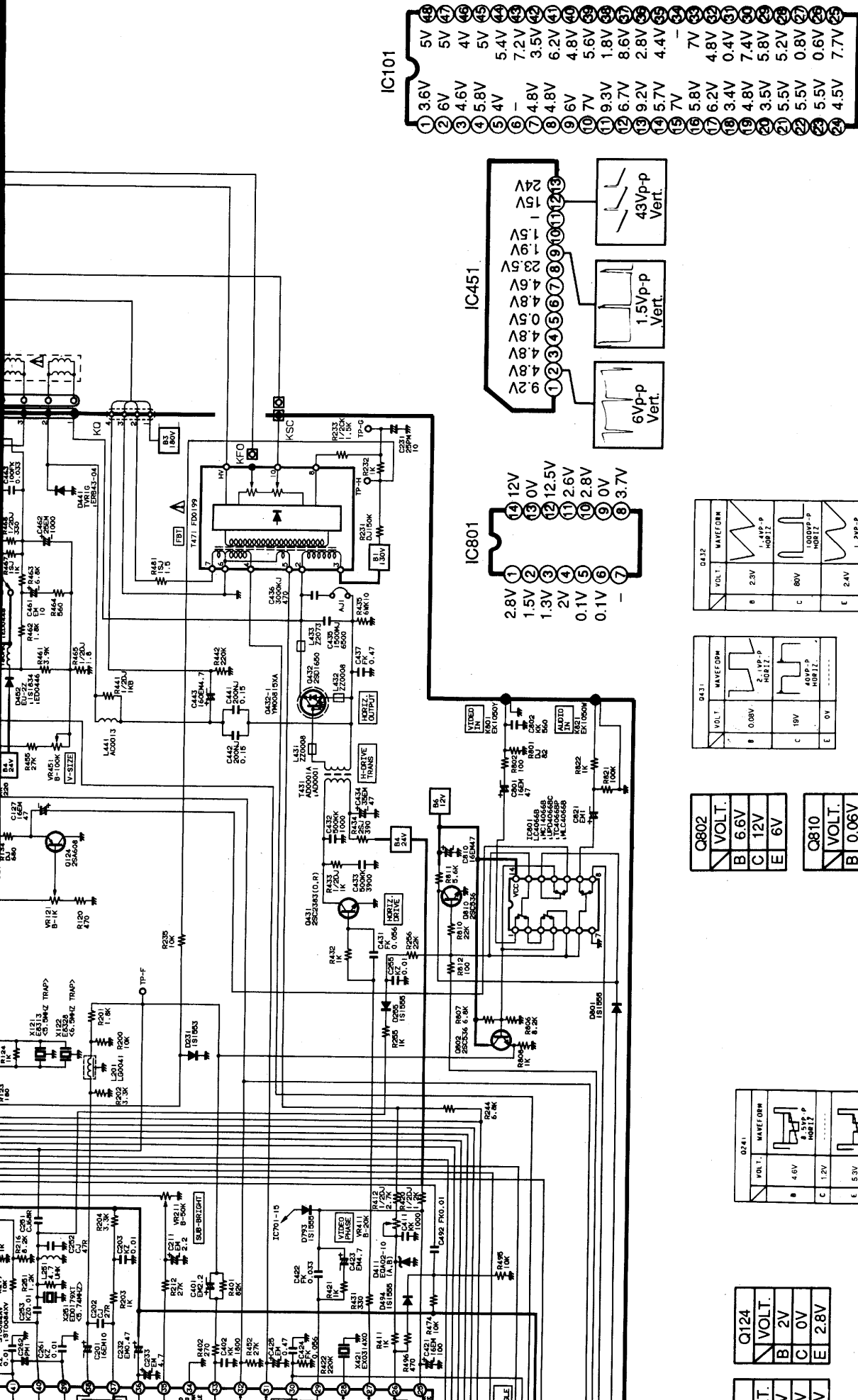
IC701



Q701	VOLT.	B	0V	C	5.4V	E	0V
Q721	VOLT.	B	4.6V	C	5.2V	E	5.3V
Q731	VOLT.	B	0.03V	C	7V	E	0V
Q732	VOLT.	B	0.7V	C	0.06V	E	0V
Q733	VOLT.	B	0.7V	C	0.03V	E	0V
Q741	VOLT.	B	0.15V	C	0.1V	E	0.9V
Q742	VOLT.	B	0.17V	C	12V	E	12V
Q751	VOLT.	B	0.03V	C	7.2V	E	0V
Q785	VOLT.	B	0.5V	C	4.6V	E	0V
Q792	VOLT.	B	0V	C	11V	E	0V

MAIN UNIT E2RZ
LE2305





IC101

1	3.6V
2	6V
3	4.6V
4	5.8V
5	4V
6	5.4V
7	7.2V
8	4.8V
9	6.2V
10	4.8V
11	6V
12	7V
13	9.3V
14	6.7V
15	9.2V
16	5.7V
17	7V
18	5.8V
19	6.2V
20	4.8V
21	3.4V
22	4.8V
23	3.5V
24	5.8V
25	5.2V
26	0.8V
27	5.5V
28	0.6V
29	4.5V
30	7.7V

IC451

1	9.2V
2	4.8V
3	4.8V
4	4.8V
5	0.9V
6	4.8V
7	4.8V
8	1.5V
9	2.5V
10	1.5V
11	1.5V
12	2.4V
13	1.5V
14	12V

IC801

1	2.8V
2	1.5V
3	1.3V
4	2V
5	0.1V
6	2.8V
7	3.7V
8	0V
9	0V
10	12.5V
11	2.6V
12	12.5V
13	0V
14	12V

D432

VOLT.	WAVEFORM
B 2.3V	1.4VP-P HORIZ.
C 80V	10VP-P HORIZ.
E 2.4V	10VP-P HORIZ.

D431

VOLT.	WAVEFORM
B 0.08V	2.1VP-P HORIZ.
C 19V	40VP-P HORIZ.
E 0V	.....

Q802

VOLT.	WAVEFORM
B 6.6V
C 12V
E 6V

Q810

VOLT.	WAVEFORM
B 0.06V
C 12.5V
E 0V

Q241

VOLT.	WAVEFORM
B 4.6V	8.3VP-P HORIZ.
C 1.2V	.....
E 5.3V	.....

Q124

VOLT.	WAVEFORM
B 2V
C 0V
E 2.8V

D1

01	.....
2V	.....
4V	.....
2V	.....

TRANSISTOR, DIODE & INTEGRATED CIRCUIT TERMINAL GUIDE

PARTICULAR PARTS SYMBOL

11. DIODE DEVICES MAY BE REPLACED WITH IS2473, IS2075 OR DS442 UNLESS OTHERWISE NOTED.
 TRANSISTOR 2SC538 (E, F, G) MAY BE REPLACED WITH 2SC1740S (Q, R, S), 2SC1740 (O, P, S), 2SC948A (I, P, R) OR 2SC88 (G, O, Y) UNLESS OTHERWISE NOTED.
 TRANSISTOR 2SA608 (E, F) MAY BE REPLACED WITH 2SA933 (O, R), 2SA664 (O, A, R) OR 2SA105 (O, Y) UNLESS OTHERWISE NOTED.

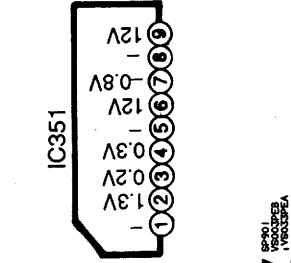
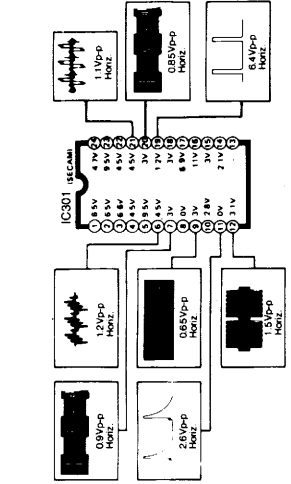
- 5%
- 10%
- 20%
- A, E, U, D Electrolytic
- K, B Ceramic
- N Mylar film
- P Polypropylene
- M Metalized paper
- Carbon
- Metallized carbon
- Oxide metallized
- Wire winding
- Solid

Q301	VOLT.
B	6V
C	12V
E	5.5V

Q351	VOLT.
B	-0.7V
C	12V
E	0V

Q341	VOLT.
B	2.6V
C	6.5V
E	2.2V

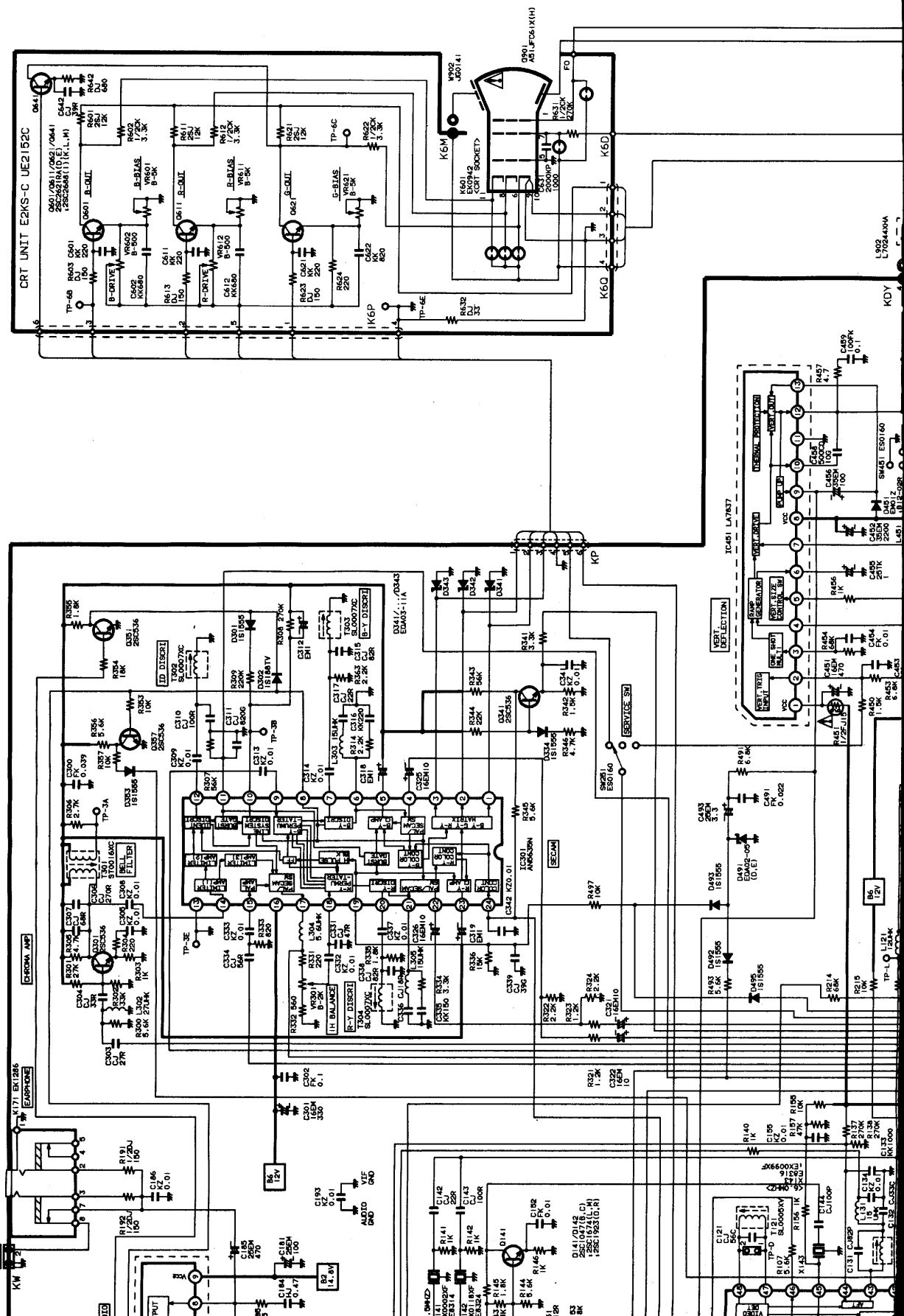
Q357	VOLT.
B	0.7V
C	0.08V
E	0V



Q601	WAVEFORM
VOLT.	6.6V
B	104V
C	6.4V
E	.....

Q611	WAVEFORM
VOLT.	6.6V
B	103V
C	6.4V
E	.....

Q621	WAVEFORM
VOLT.	6.6V
B	100Vp-p
C	100V
E	.....



Q841	VOLT.
B	0V
C	100V
E	0V