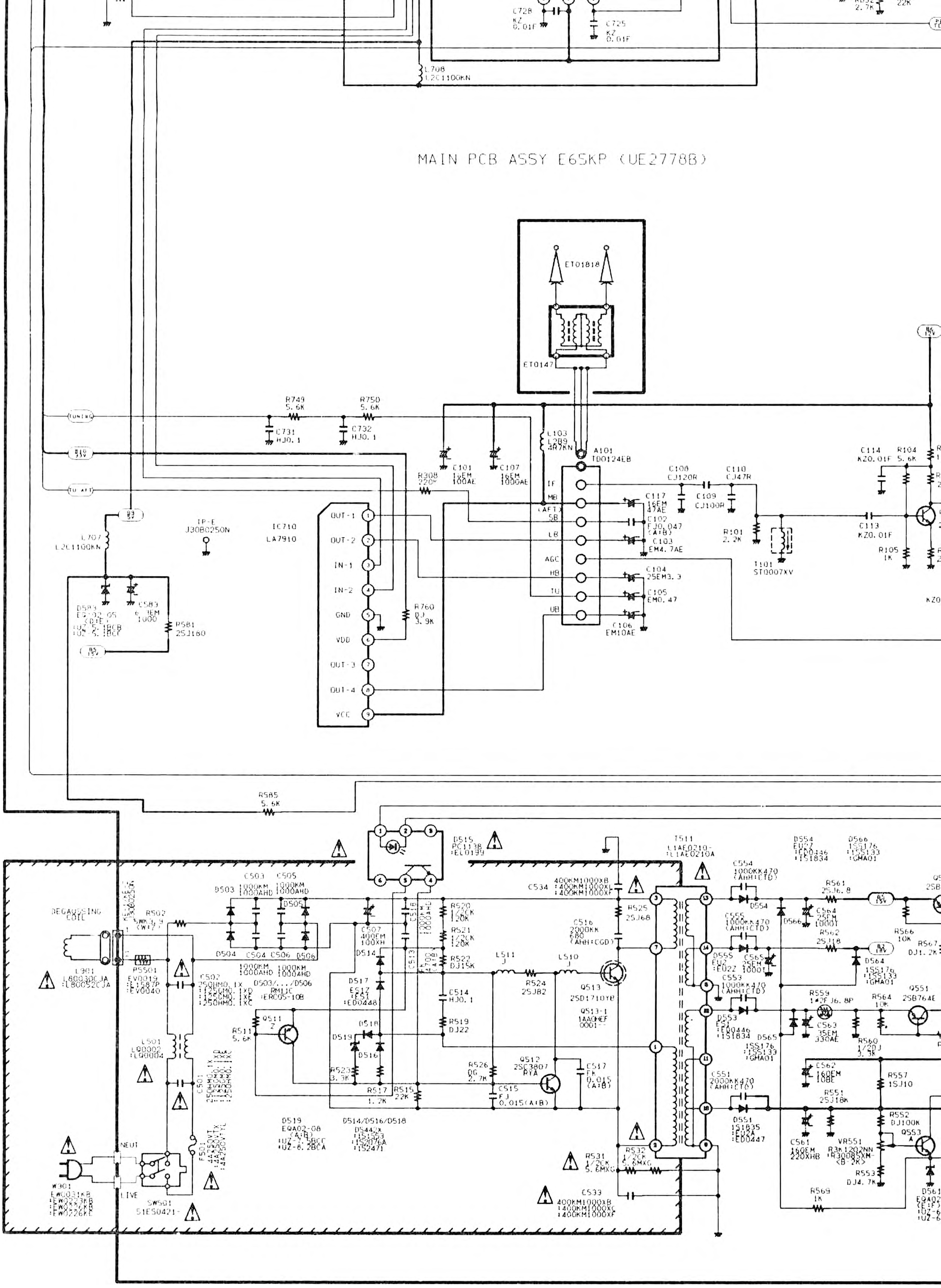
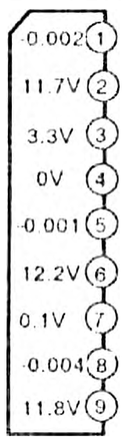
MAIN PCB ASSY E6SKP (UE2778B)



IC710 BAND SWITCH



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

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	6.2 V

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.

CIRCUIT DIAGRAM NOTICE:

1. All resistance value are in ohms, K=1,000, M=1,000.
2. All resistance rated wattages are 1/6W unless otherv
3. Excepting electrolytic capacitors, all capacitance val expressed in μF and more than 1 are pF.
4. All capacitance rated voltages are 50V unless otherv
5. All inductance values are in μH.
6. Voltage readings taken with taken with a "VTVM" ar chassis ground. Voltage readings taken by using a with all controls at normal position. Some voltages strength.
7. Waveforms were taken with colour bar and controls picture. Waveforms were taken by using a wide bar low capacity probe
8. This circuit diagram covers a basic or representativ may be some components or partial circuit difference chassis and the circuit diagram.

SANYO

COLOUR TELEVISION

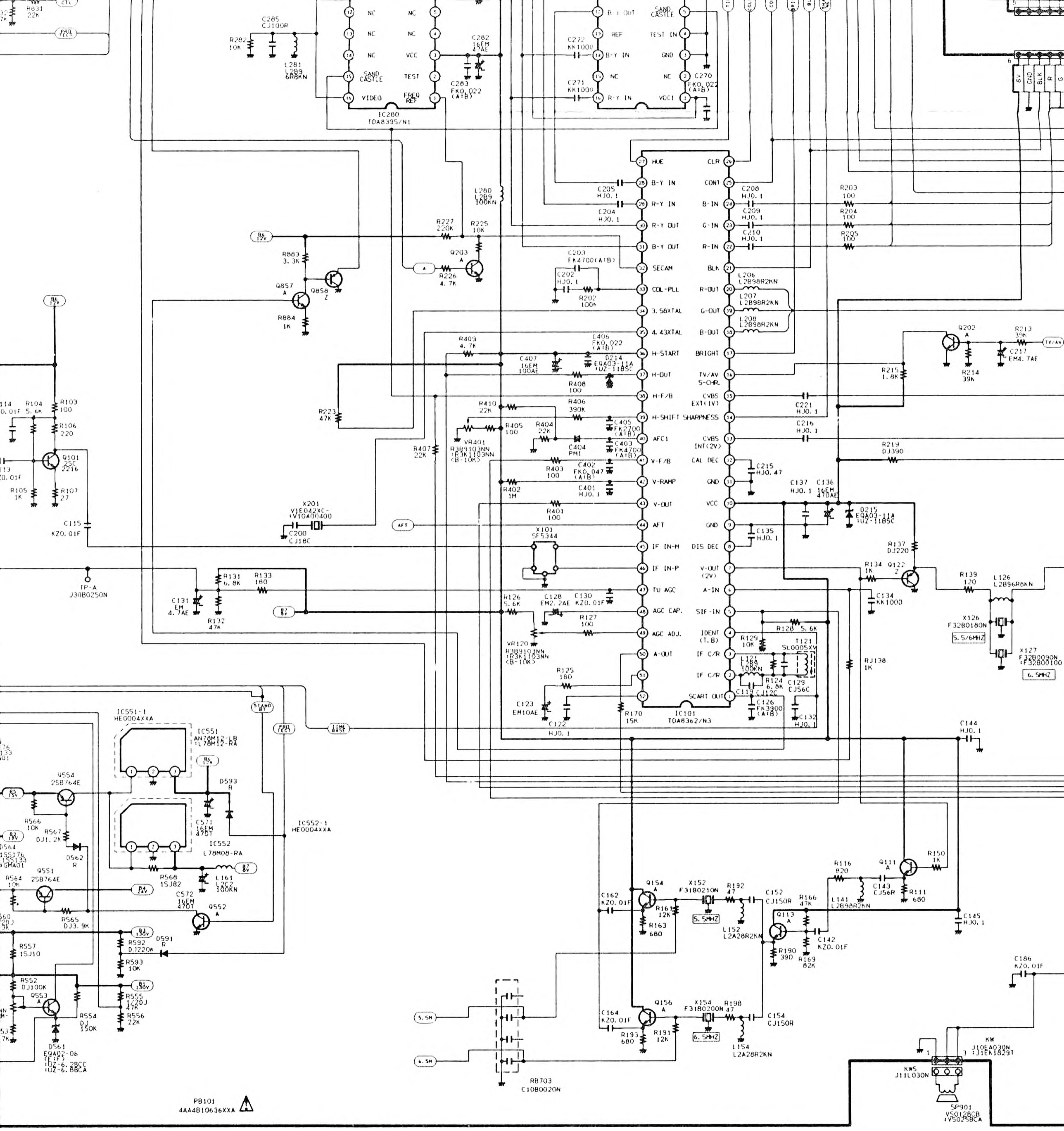
A7-A CHASSIS SERIES

SERVICE REF. NO. C14EA13EX - 00
C14EA13EX - 01

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 ⚠ 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

Part No. 1AA6P2P0368- - E6SKP



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

Q202	
	VOLT.
B	0.6V
C	0.07V
E	– V

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

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

Q122	
	VOL
B	3.1
C	33.1
E	2.4

000, M=1.000.000.
V unless otherwise noted.
apacitance values of less than 1 are
pF.
V unless otherwise noted.

h a "VTVM" are from point indicated
en by using a colour bar signal are
ome voltages may vary with signal

ar and controls adjusted for normal
ing a wide band oscilloscope and a

representative chassis only. There
ircuit differences between the actual

9. Expression of capacitance and resistance in circuit diagram.

Capacitance(Example)

1000 C M 2000 D

- Characteristic
- Capacitance value(220pF)
- Allowable error (± 20%)
- Kind (Ceramic)
- Rated voltage (1 000V)

J= ± 5%
K= ± 10%
M= ± 20%

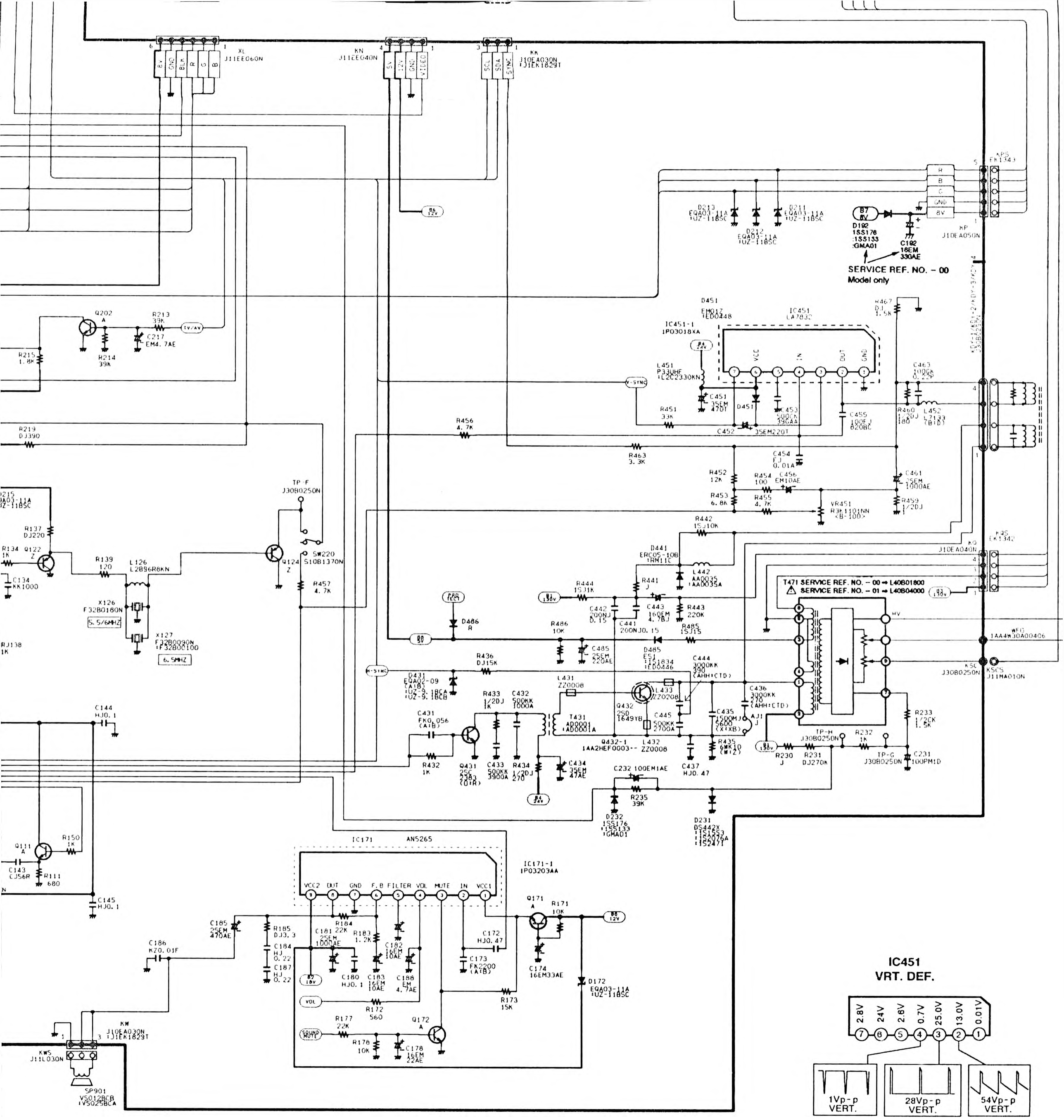
T,A,U,D: Electrolytic
C,K,B,Ceramic
F:Mylar film
M,N,Polyprop ylene
Z Metalized paper

Resistance(Example)

1/2 N J 1.2

- Resistance value(1.2 Ω)
- Allowable error(± 5%)
- Kind(M.carbon)
- Rated wattage(1/2W)

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



IC451
VRT. DEF.

Q122	
	VOLT.
B	3.1V
C	33.1V
E	2.4V

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

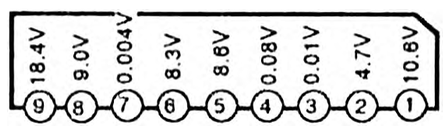
Q113	
	VOLT.
B	4.6V
C	7.8V
E	3.3V

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

Q172	
	VOLT.
B	0.6V
C	0.01V
E	-0.001V

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

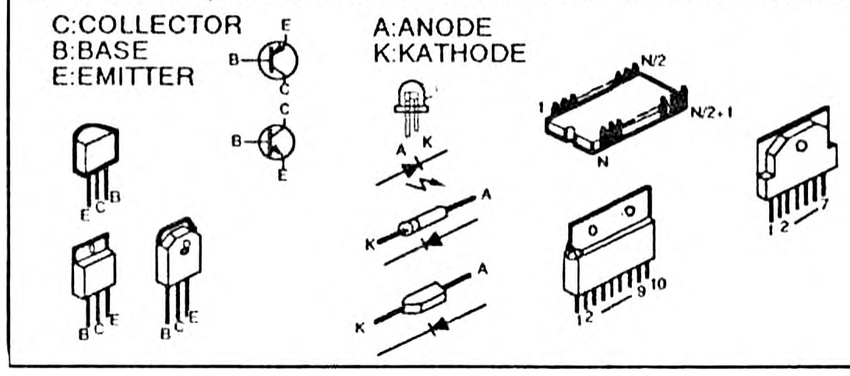
IC171
AUDIO AMP.



TRANSISTOR, DIODE AND INTEGRATED CIRCUIT TERMINAL GUIDE

C:COLLECTOR
B:BASE
E:EMITTER

A:ANODE
K:KATHODE



PARTICULAR PARTS SYMBOL

FUSIBLE

NON POLE ELECTRIC CAPACITOR

POSISTER

10. Parts specified with " X " are not installed in thi model.
11. Parts specified with "J " are just jumper wires.
12. Difference between Service Ref. No. "C14EA13EX-0

	Service Ref. No. – 00	Service Ref. N
T471	L40B01800	L40B04000
C192	16EM 330AE	NOT USED
D192	1SS176, 1SS133,GMA01	NOT USED
CRT UNIT	UE2780	1AA0B10E1

Teletext Decoder is an optional extra.

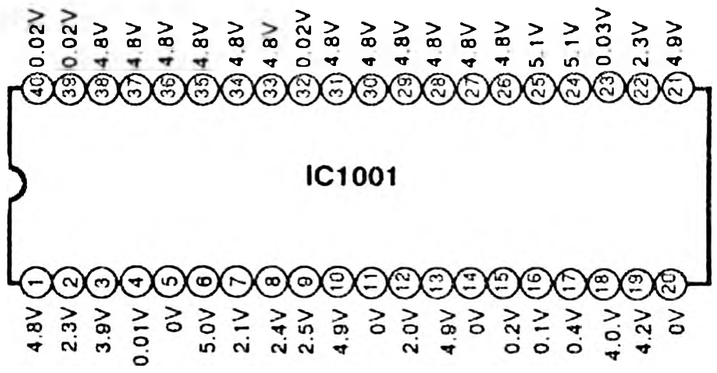
Note: Voltage rating in decoder unit taken using teletext signal.

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

NOTES:

LIST OF REPLACEABLE PARTS.

(DIODE)

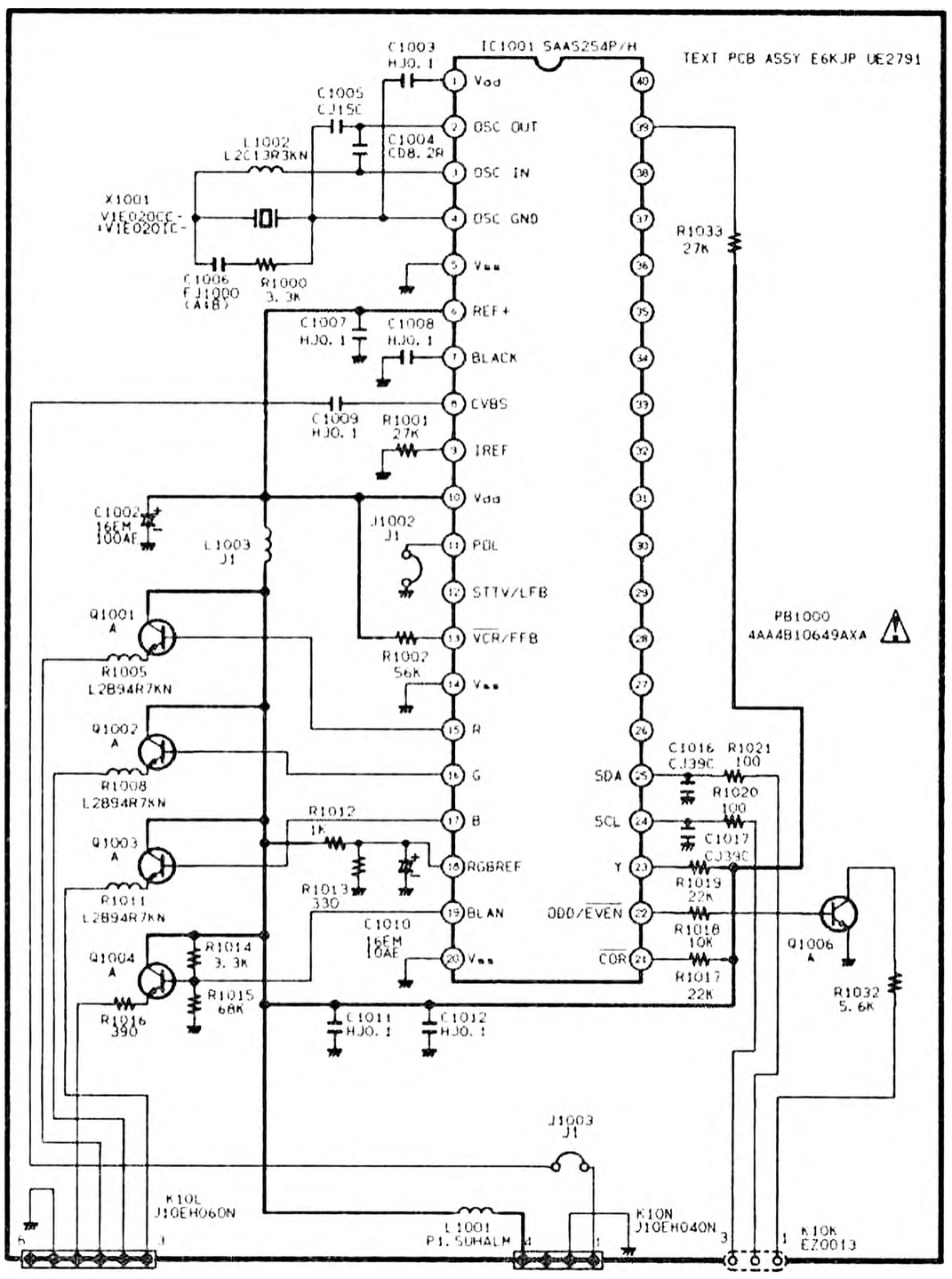
	SANYO CODE	DIODE
B	7D000019	1S1555, 1S2473, 1S2076, DS442, 1N4148

(NPN, TR)

	SANYO CODE	2SC536	2SC945A	2SC1815	2SC1740	2SC1740S
A	7QTQ0214	E, F, G	P, Q, R	O, Y, G	Q, R, S	Q, R, S

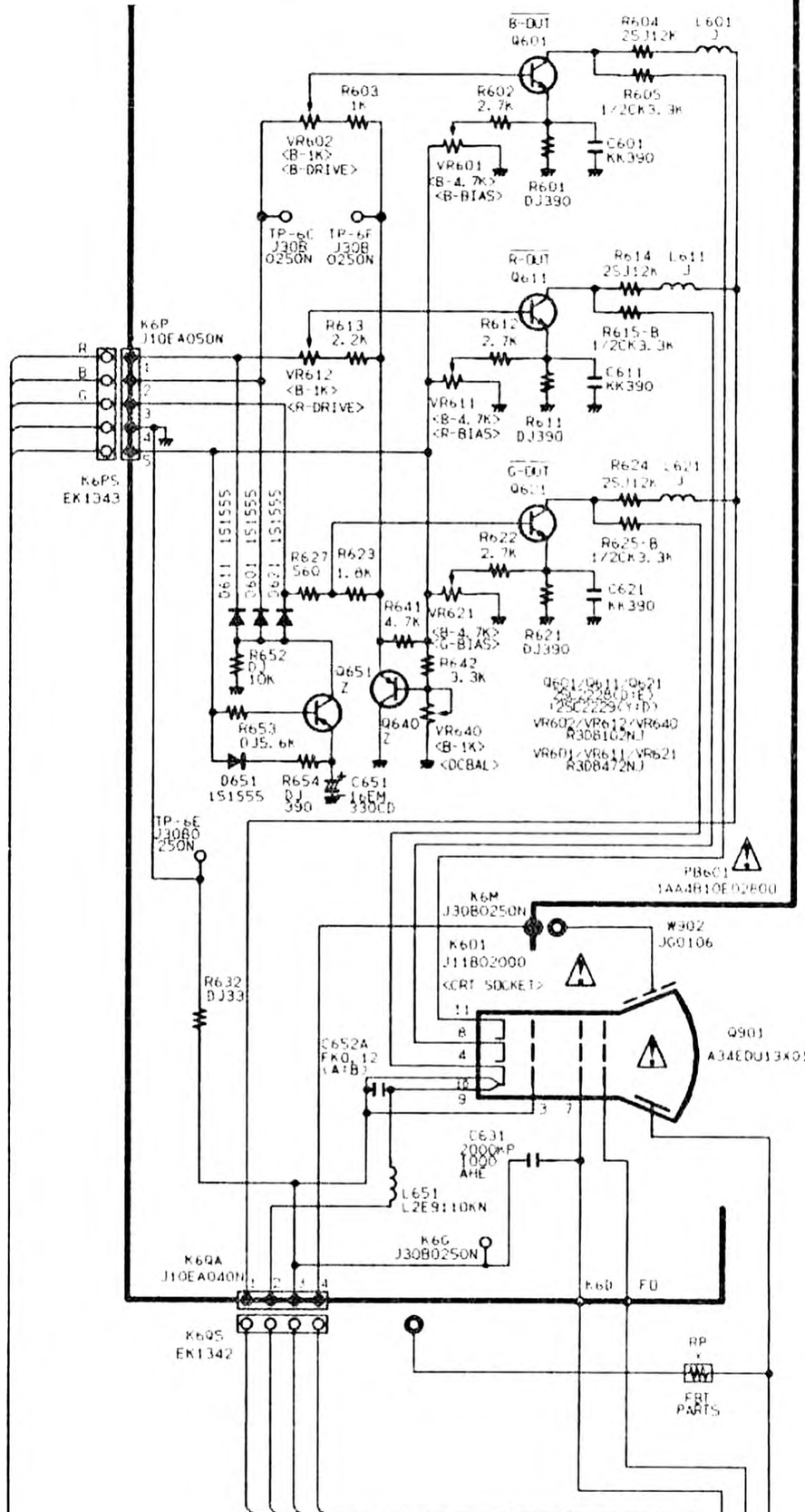
(PNP, TR)

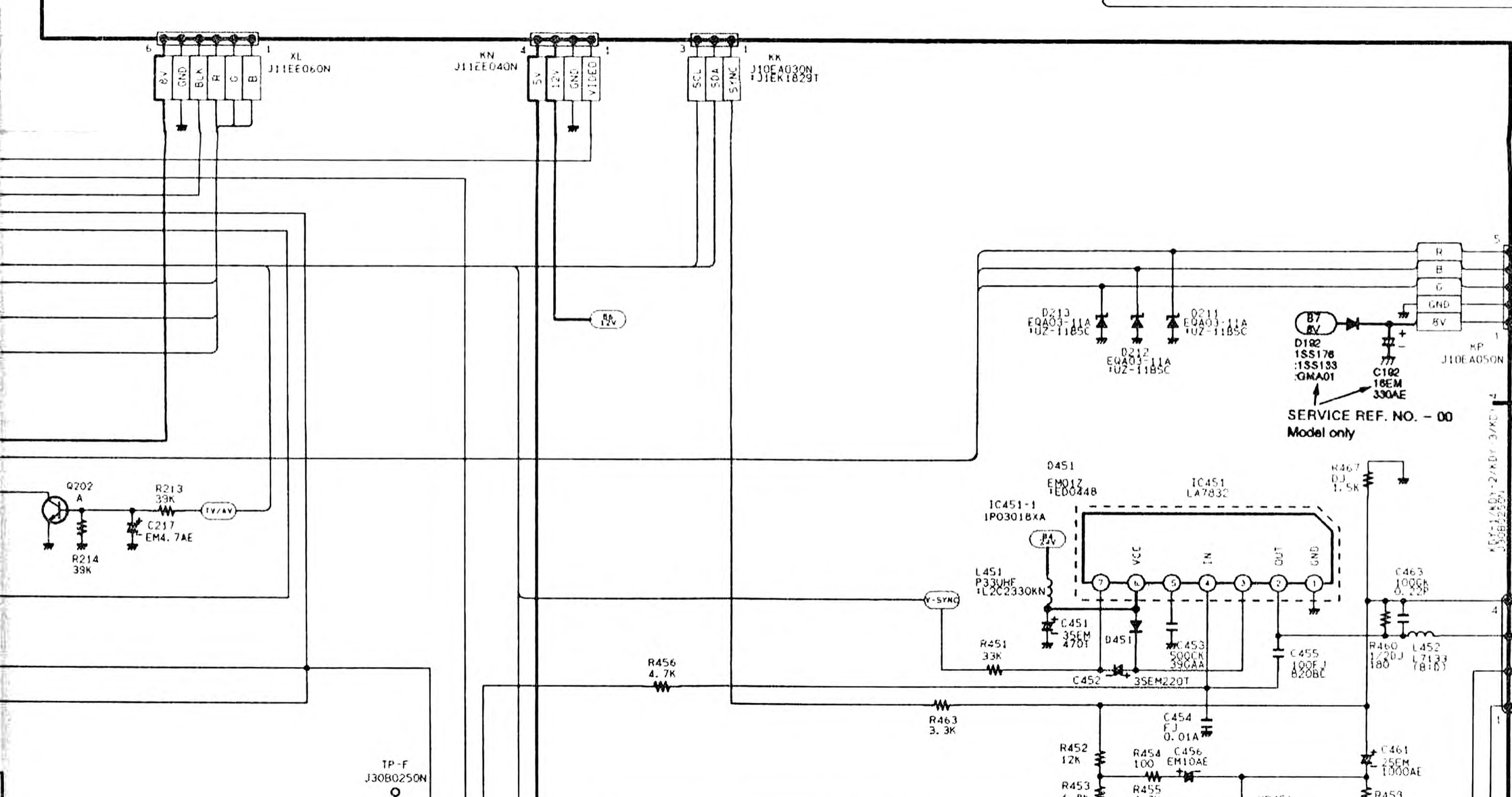
	SANYO CODE	2SA608	2SA964A	2SA1015	2SA933	2SA933S
?	7QTQ0418	E, F	Q, R	O, Y, G	Q, R	Q, R

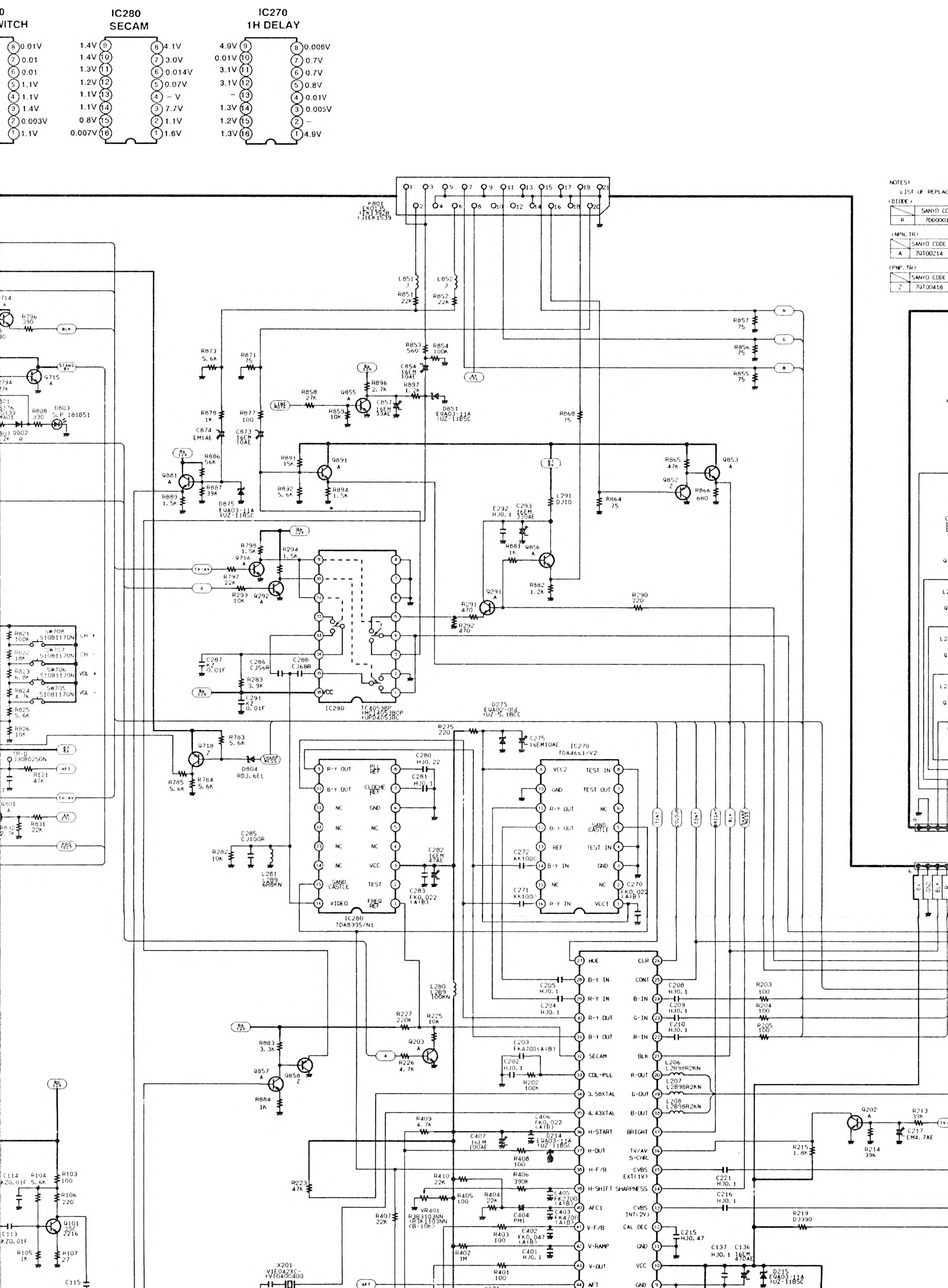


SERVICE REF. NO. – 00 ➡ CRT PCB ASS'Y E6KZP UE2781

SERVICE REF. NO. – 01 ➡ ASS'Y, PWB, CRT E6PKH 1AA0B10E14800







IC280
SECAM
IC270
1H DELAY
1.4V 9 8 4.1V
1.4V 10 7 3.0V
1.3V 11 6 0.014V
1.2V 12 5 0.07V
1.1V 13 4 – V
1.1V 14 3 7.7V
0.8V 15 2 1.1V
0.007V 16 1 1.6V
4.9V 9 8 0.006V
0.01V 10 7 0.7V
3.1V 11 6 0.7V
3.1V 12 5 0.8V
– 13 4 0.01V
1.3V 14 3 0.005V
1.2V 15 2 –
1.3V 16 1 4.9V
K801
NOTES:
LIST OF REPLAC
(DIODE)
SANYO CO
R 7DD0001
(NPN. TR)
SANYO CODE
A 7QT00214
(PNP. TR)
SANYO CODE
Z 7QT00418
IC290
TC4053BP
IC280
TDA8395/N1
IC270
TDA4661/V2
HUE
B-Y IN
R-Y IN
R-Y OUT
B-Y OUT
SECAM
COL-PLL
3.58XTAL
4.43XTAL
H-START
H-OUT
H-F/B
H-SHIFT SHARPNESS
AFC1
V-F/B
V-RAMP
V-OUT
AFT
CLR
CONT
B-IN
G-IN
R-IN
BLK
R-OUT
G-OUT
B-OUT
BRIGHT
TV/AV S-CHR.
CVBS EXT(1V)
CVBS INT(2V)
CAL DEC
GND
VCC
Q855
Q891
Q853
Q852
Q856
Q291
Q881
Q716
Q292
Q718
Q715
Q203
Q857
Q858
Q202
Q101 2SC2216
X201
TINT
COLOUR
CONT
BRIGHT
BLK
SHARPNESS

6
ILT.
0 V
8V
4V

IC290 TV/AV SWITCH

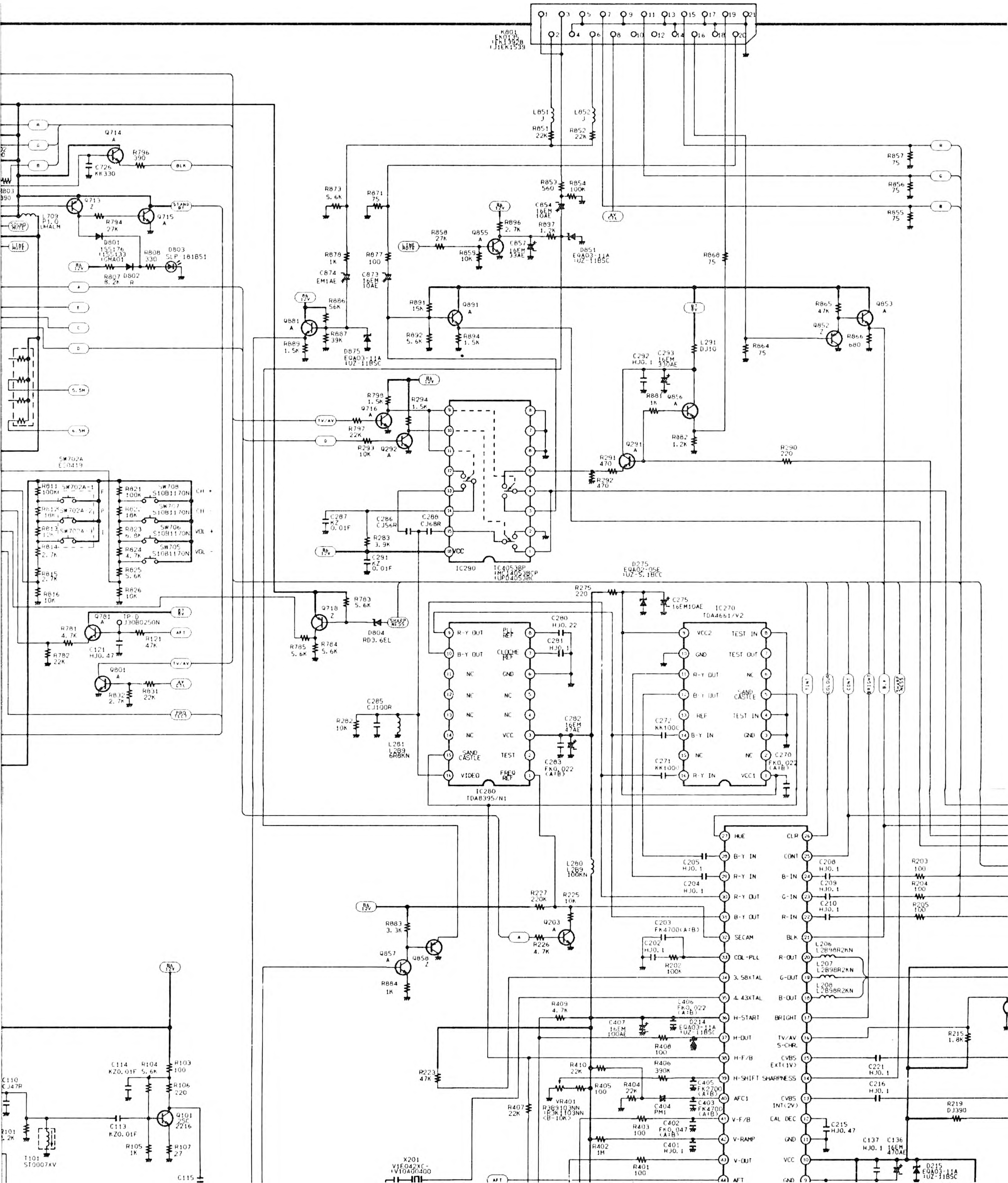
Pin	Voltage	Pin	Voltage
9	0.07V	8	0.01V
10	11.8V	7	0.01
11	0.07V	6	0.01
12	11.8V	5	1.1V
13	11.8V	4	1.1V
14	11.8V	3	1.4V
15	1.1V	2	0.003V
16	11.8V	1	1.1V

IC280 SECAM

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

IC270 1H DELAY

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



K801 EK0135 ↑EKJ392B ↑J1EK1539
L851 J
L852 J
R851 22K
R852 22K
R853 560
R854 100K
C854 16EM 10AE
R896 2.7K
R897 1.2K
D851 EQA03-11A ↑UZ-11BSC
R858 27K
Q855 A
R859 10K
C857 16EM 33AE
R857 75
R856 75
R855 75
R868 75
Q714 A
R796 390
C726 KK330
Q713 Z
Q715 A
R794 27K
L709 P1.0 LHALM
D801 1SS176 ↑1SS133 ↑GMA01
R808 330
D803 SLP-181B51
R807 8.2K
D802 R
R873 5.6K
R871 75
R878 1K
R877 100
C874 EM1AE
C873 16EM 10AE
Q881 A
R886 56K
R887 39K
R889 1.5K
D875 EQA03-11A ↑UZ-11BSC
R891 15K
Q891 A
R892 5.6K
R894 1.5K
R865 47K
Q853 A
Q852 Z
R866 680
R864 75
L291 DJ10
C292 HJ0.1
C293 16EM 330AE
R881 1K
Q856 A
R882 1.2K
Q291 A
R291 470
R292 470
R290 220
R798 1.5K
R294 1.5K
Q716 A
R797 22K
R293 10K
Q292 A
SW702A ES0419
R811 100K
SW702A-1
R812 18K
SW702A-2
R813 12K
SW702A-3
R814 2.7K
R815 2.7K
R816 10K
R821 100K
SW708 S10B1170N
R822 18K
SW707 S10B1170N
R823 6.8K
SW706 S10B1170N
R824 4.7K
SW705 S10B1170N
R825 5.6K
R826 10K
CH +
CH -
VOL +
VOL -
C287 KZ 0.01F
C286 CJ56R
C288 CJ68R
R283 3.9K
C291 KZ 0.01F
IC290
TC4053BP ↑MC14053BCP ↑UPD4053BC
D275 EQA02-05E ↑UZ-5.1BCC
R275 220
C275 16EM10AE
IC270 TDA4661/V2
Q781 A
TP-D J30B0250N
R781 4.7K
R121 47K
C121 HJ0.47
R782 22K
Q801 A
R832 2.7K
R831 22K
Q718 Z
R783 5.6K
R785 5.6K
R784 5.6K
D804 RD3.6EL
C280 HJ0.22
C281 HJ0.1
C285 CJ100R
R282 10K
L281 L289 6R8KN
C282 16EM 47AE
C283 FK0.022 (A:B)
IC280 TDA8395/N1
R-Y OUT
B-Y OUT
NC
SAND CASTLE
VIDEO
PLL REF
CLOCHE REF
GND
VCC
TEST
FREQ REF
VCC2
TEST IN
TEST OUT
R-Y OUT
B-Y OUT
REF
B-Y IN
R-Y IN
VCC1
C272 KK1000
C271 KK1000
C270 FK0.022 (A:B)
TINT
COLOUR
CONT
BRIGHT
B.P
SHARPNESS
L260 L289 100KN
R227 220K
R225 10K
Q203 A
R226 4.7K
R883 3.3K
Q857 A
Q858 Z
R884 1K
HUE
B-Y IN
R-Y IN
R-Y OUT
B-Y OUT
SECAM
COL-PLL
3.58XTAL
4.43XTAL
H-START
H-OUT
H-F/B
H-SHIFT
AFC1
V-F/B
V-RAMP
V-OUT
AFT
CLR
CONT
B-IN
G-IN
R-IN
BLK
R-OUT
G-OUT
B-OUT
BRIGHT
TV/AV S-CHR.
CVBS EXT(1V)
SHARPNESS
CVBS INT(2V)
CAL DEC
GND
VCC
C205 HJ0.1
C204 HJ0.1
C203 FK4700(A:B)
C202 HJ0.1
R202 100K
C208 HJ0.1
C209 HJ0.1
C210 HJ0.1
R203 100
R204 100
R205 100
L206 L2B98R2KN
L207 L2B98R2KN
L208 L2B98R2KN
R409 4.7K
C406 FK0.022 (A:B)
C407 16EM 100AE
D214 EQA03-11A ↑UZ-11BSC
R408 100
R223 47K
R410 22K
R406 390K
R405 100
R404 22K
C405 FK2700 (A:B)
VR401 R3B9103NN ↑R3K1103NN <B-10K>
C404 PM1
C403 FK4700 (A:B)
R407 22K
R403 100
C402 FK0.047 (A:B)
R402 1M
C401 HJ0.1
R401 100
X201 V1E042XC- ↑V10A00400
R215 1.8K
C221 HJ0.1
C216 HJ0.1
R219 DJ390
C215 HJ0.47
C137 HJ0.1
C136 16EM 470AE
D215 EQA03-11A ↑UZ-11BSC
C114 KZ0.01F
R104 5.6K
R103 100
R106 220
C110 CJ47R
C113 KZ0.01F
Q101 2SC 2216
R101 1.2K
R105 1K
R107 27
T101 ST0007XV
C115