SCHEMATIC DIAGRAM MODEL 2104XS1

NOTE: The parts identified by the international hazard symbols are critical for safety. Replace only with part number specified.

OBSERVATION OF VOLTAGES AND WAVEFORMS

1. Voltages read with VTVM from point shown to chassis ground, line voltage 220 volts, colour bar signal. Voltages reading may vary ±20%.
2. All waveforms are taken using a wide band oscilloscope and a low capacity probe.
3. Waveforms are taken using a standard colour bar signal.
4. Make sure that CONTRAST and COLOUR controls are in mid position and BRIGHTNESS control is almost 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. These are measured for separated from the circuit.
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, k=1,000, M=1,000,000
2. Unless other wise noted in schematic, all capacitor values less than 1 are expressed in μF and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μH, and the values less than 1 in H.

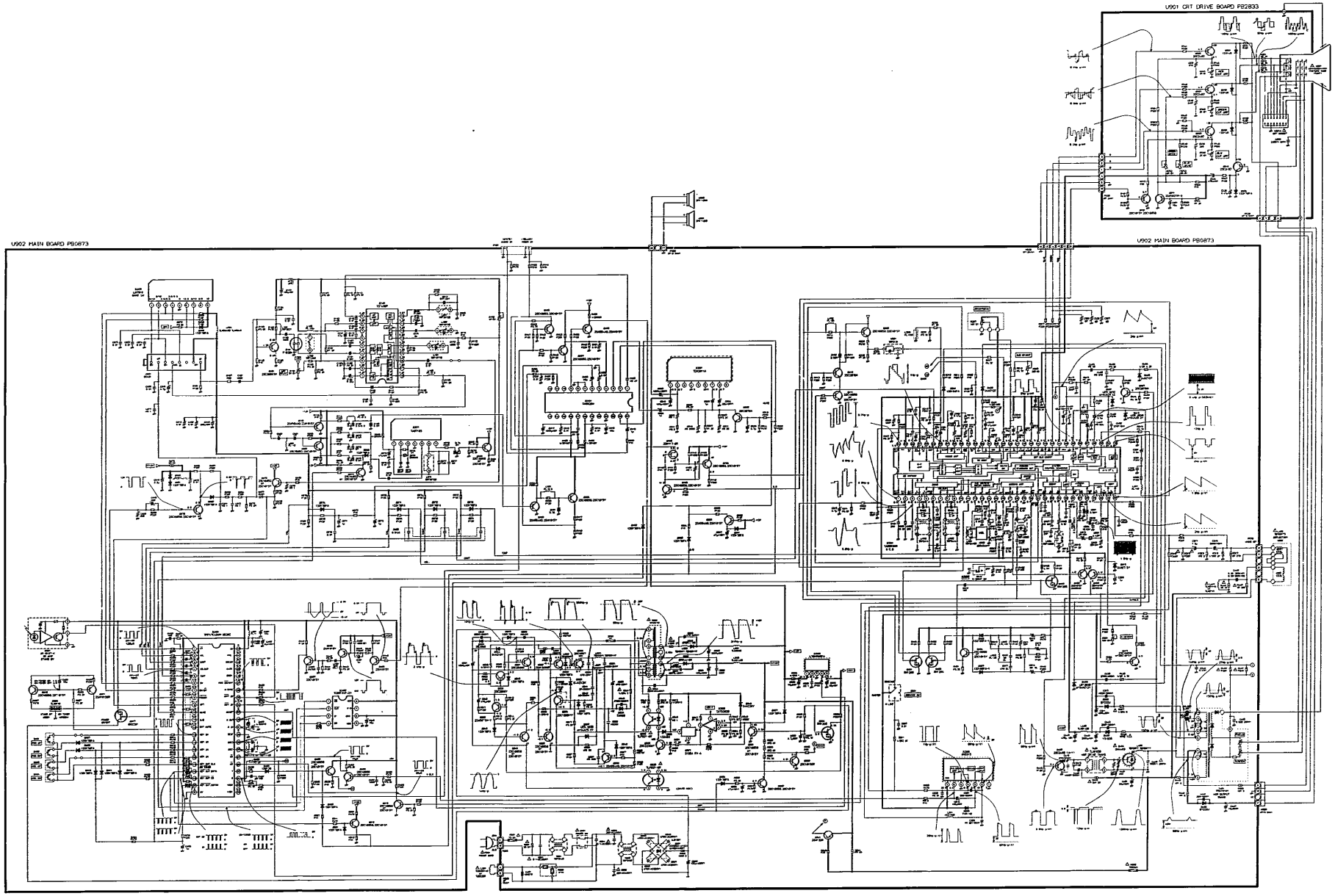
RESISTOR

Table 1

Type	Mark
Carbon Compositon	S
Oxide Metal Film	R
Insulated Carbon Film	P
Cement	W
Variable Resistor	VR
Fusible Resistor	FR

Table 2

Watt	Mark	Watt	Mark
1/8 W		3 W	
1/8 W		5 W	
1/4 W		10 W	
1/2 W		15 W	
1 W		20 W	
2 W		25 W	



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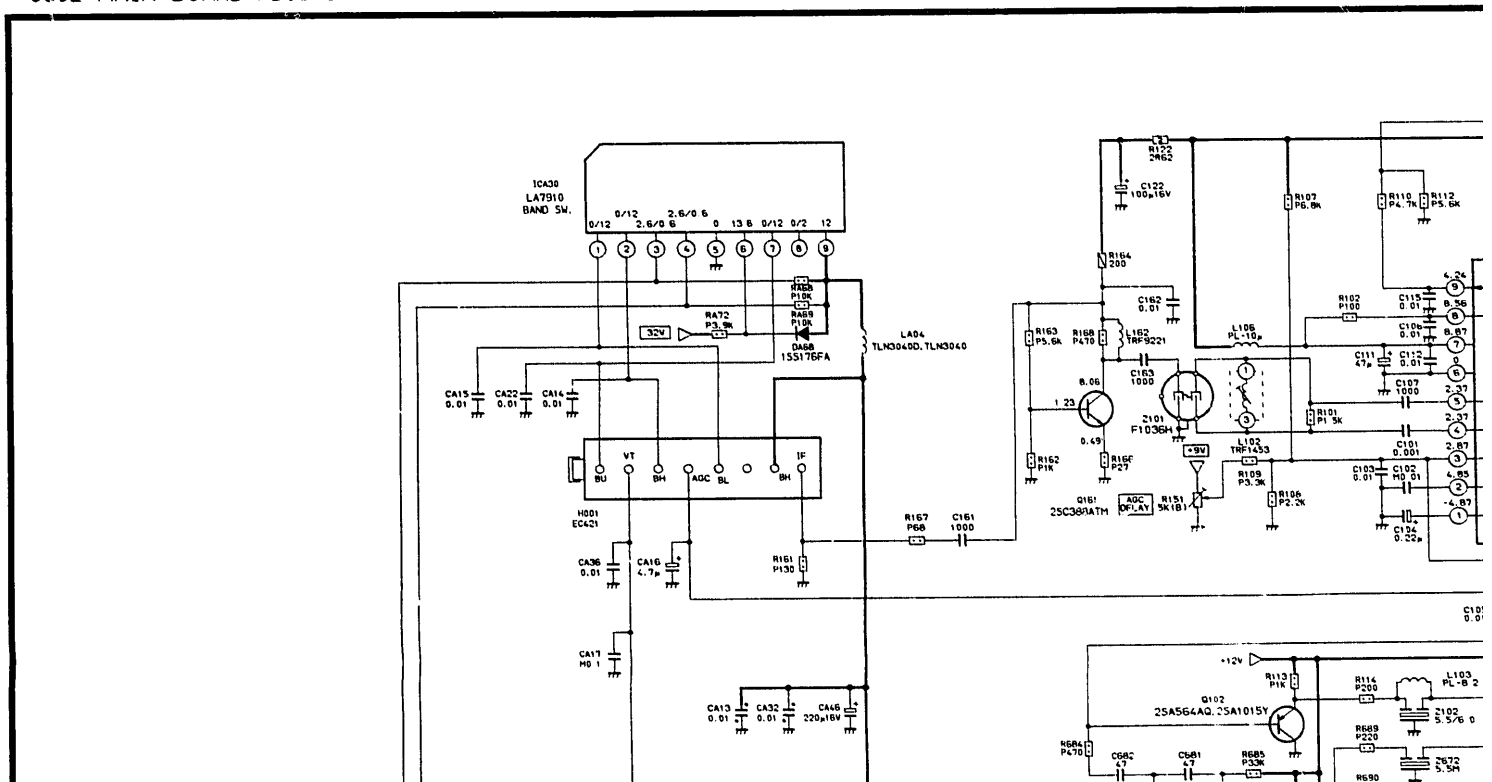
3. Waveforms are
4. Make sure tha BRIGHTNESS c picture.

U902 MAIN BOARD PB0873



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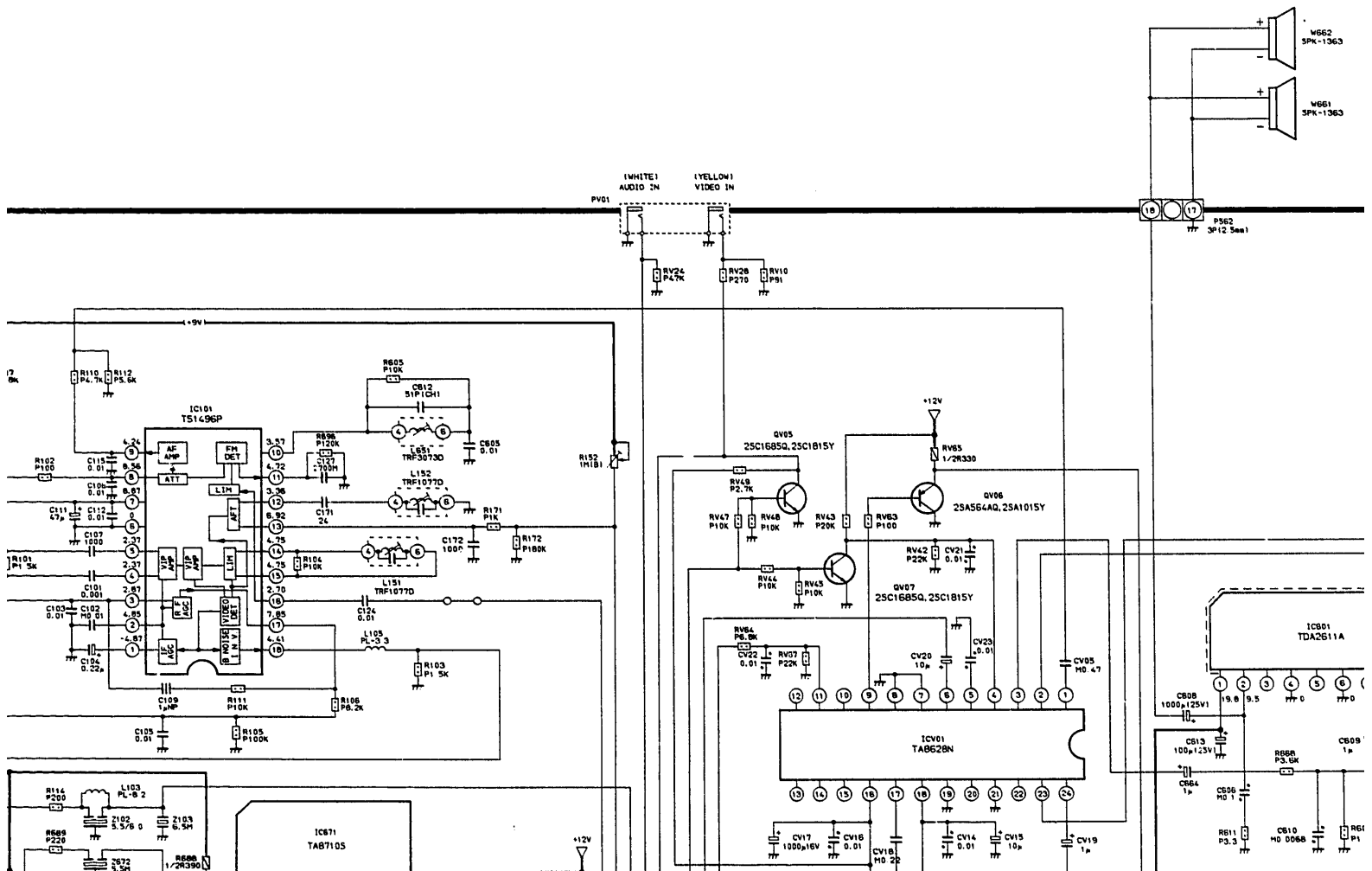

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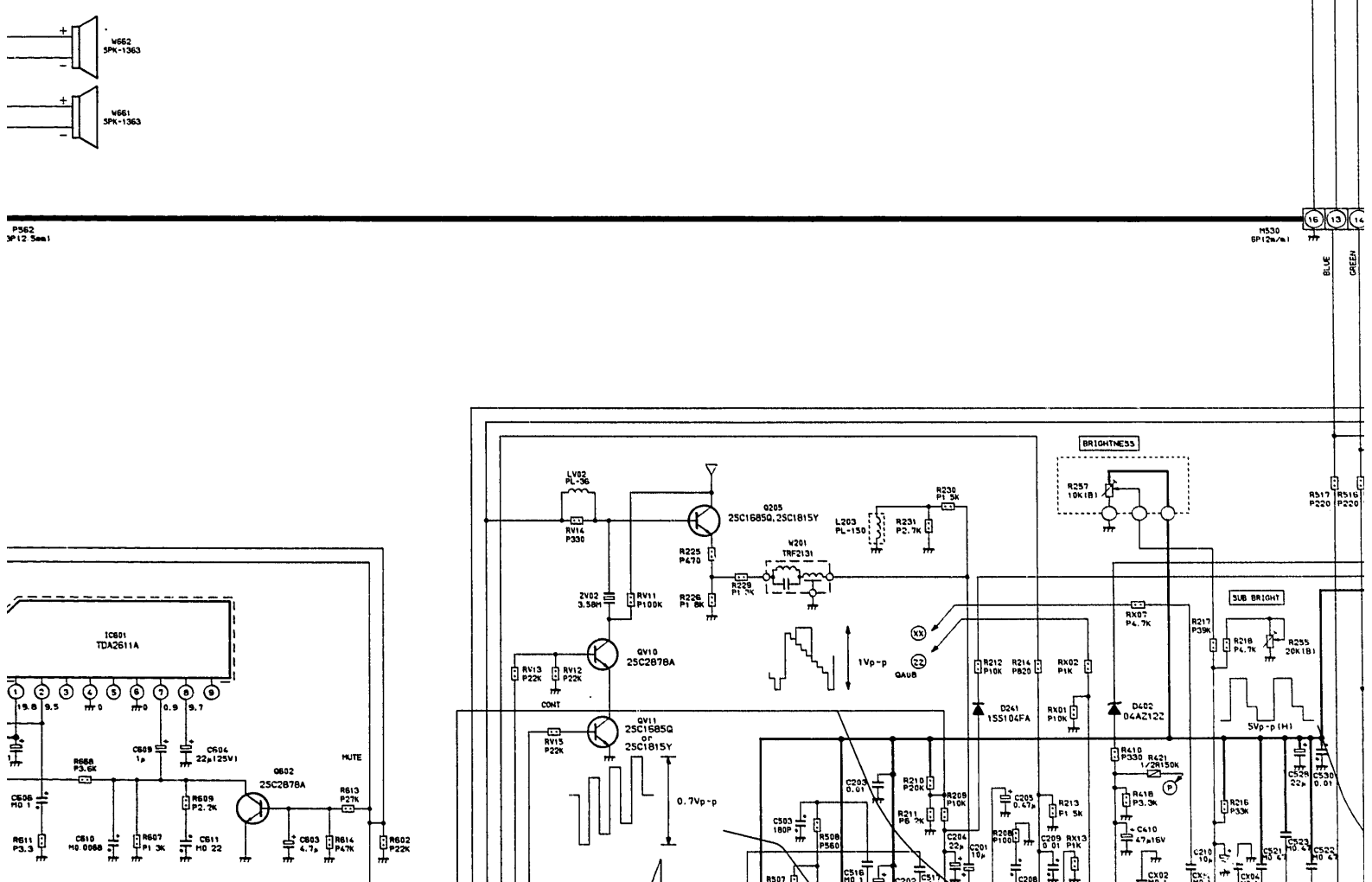

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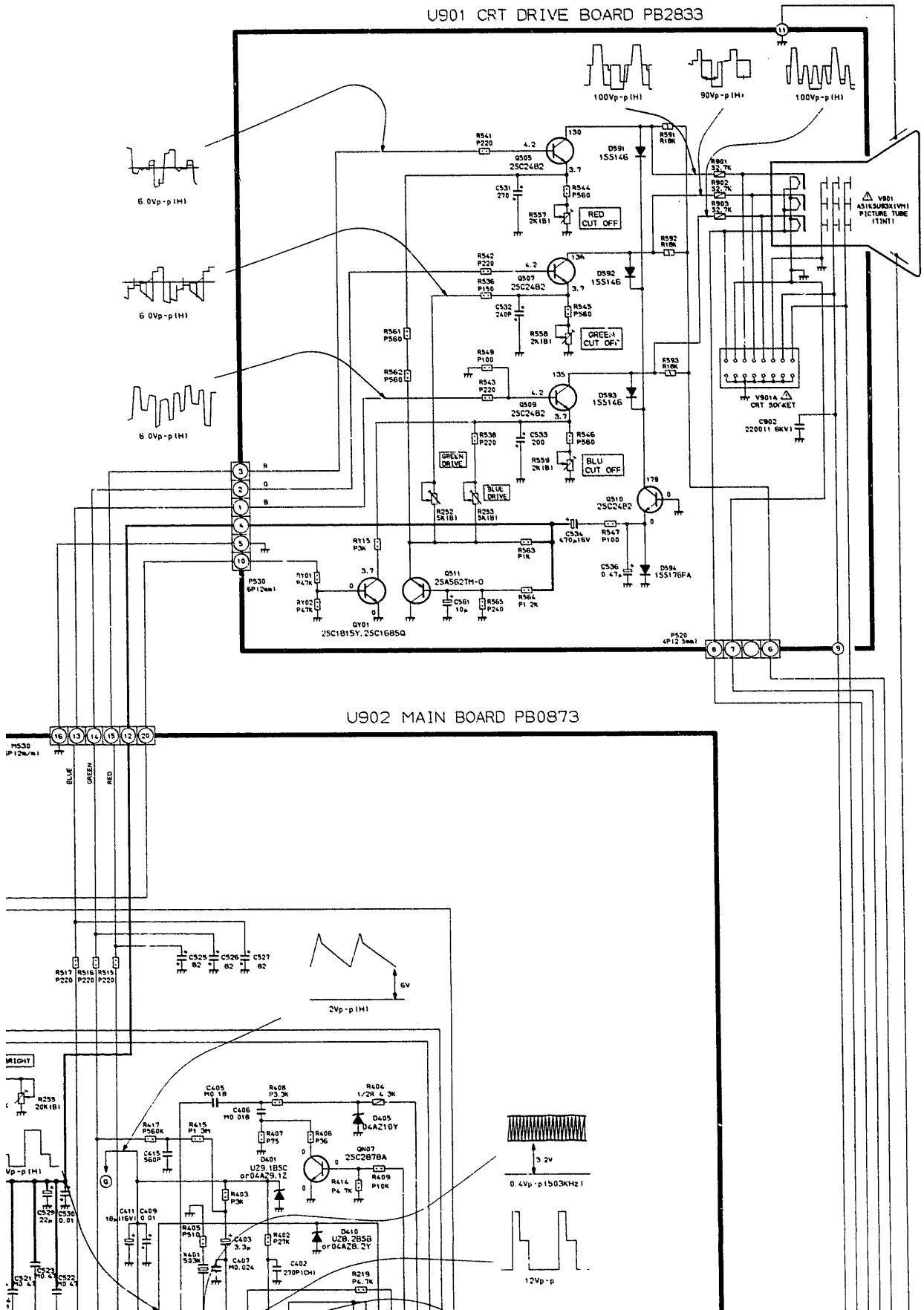
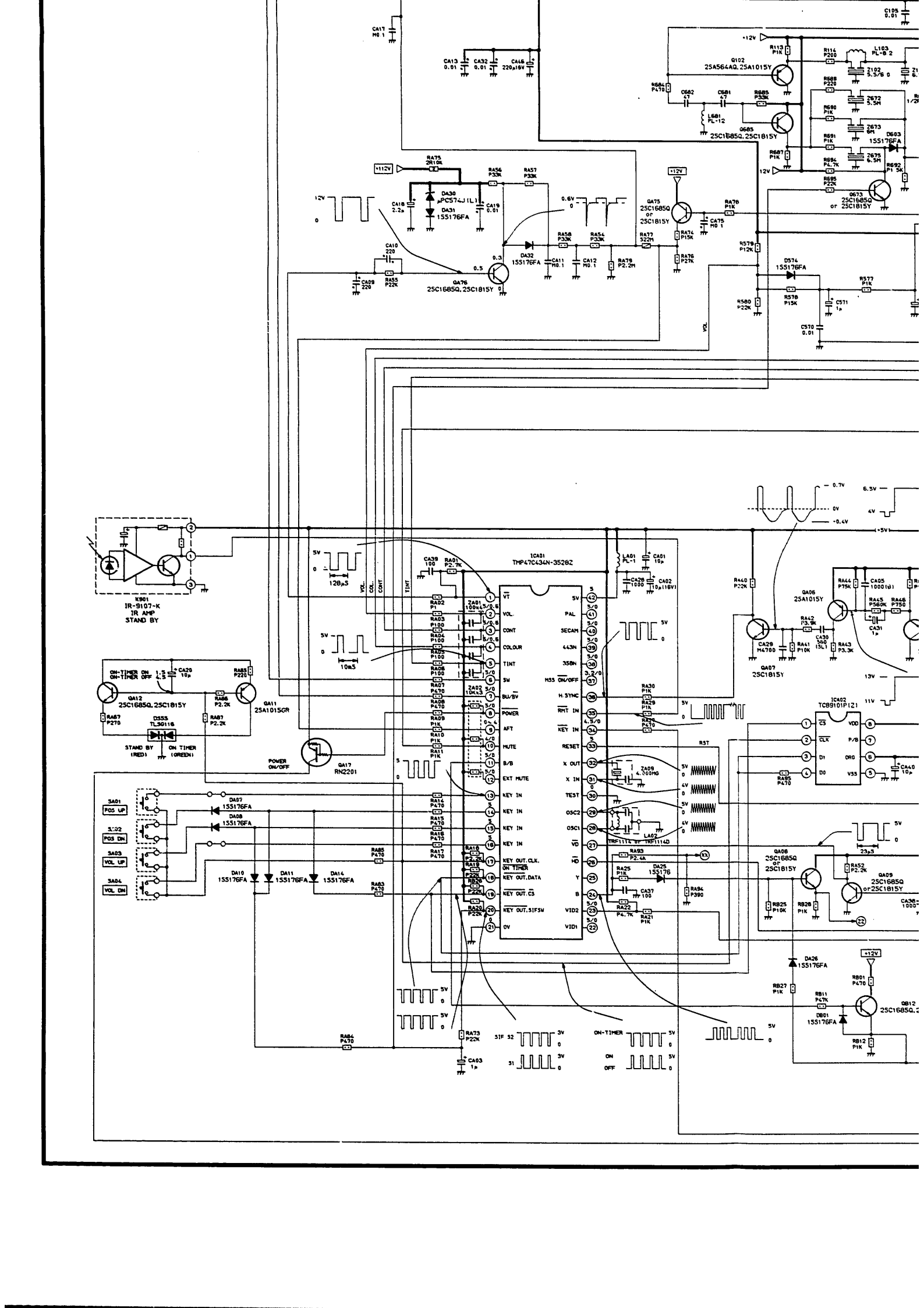
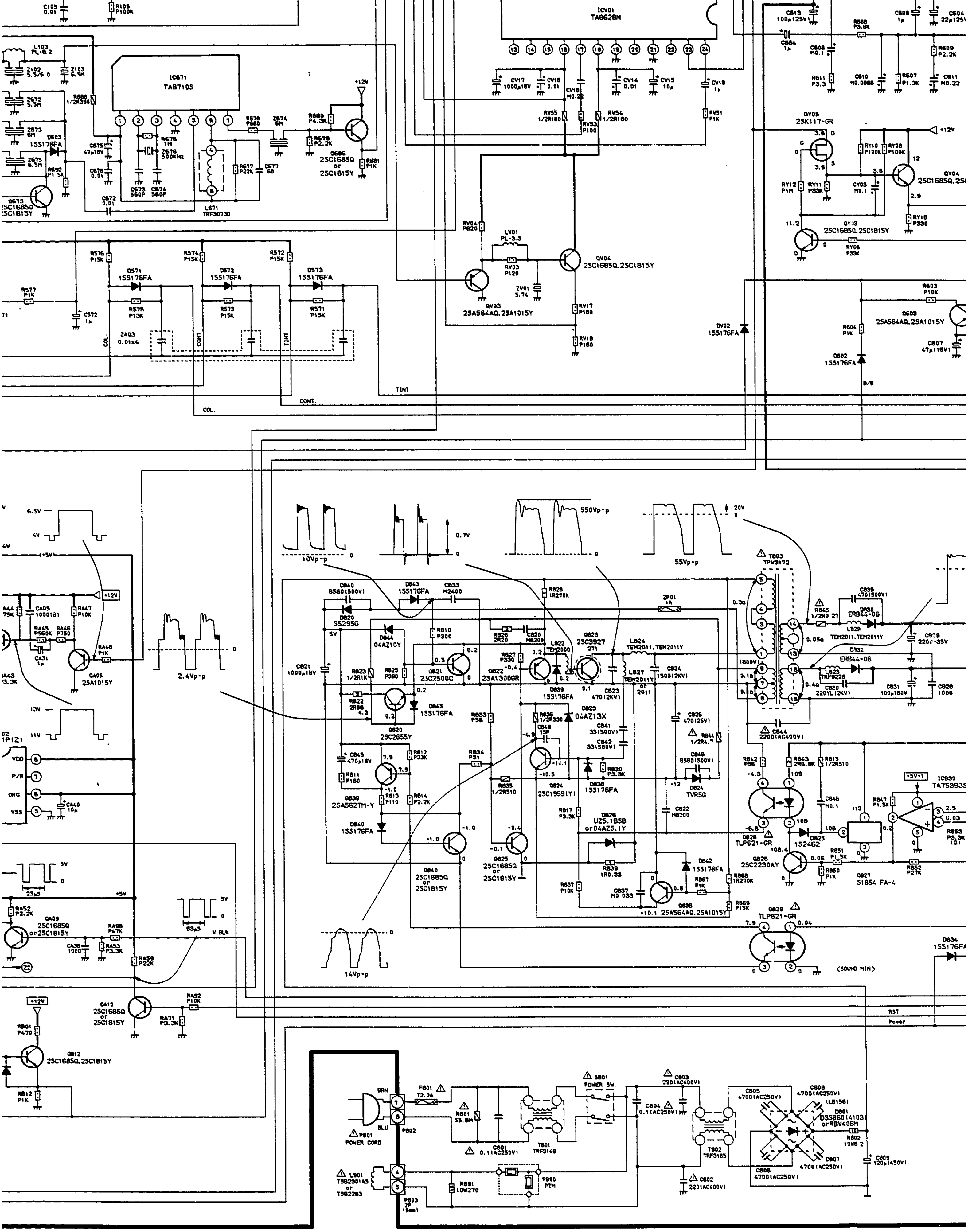
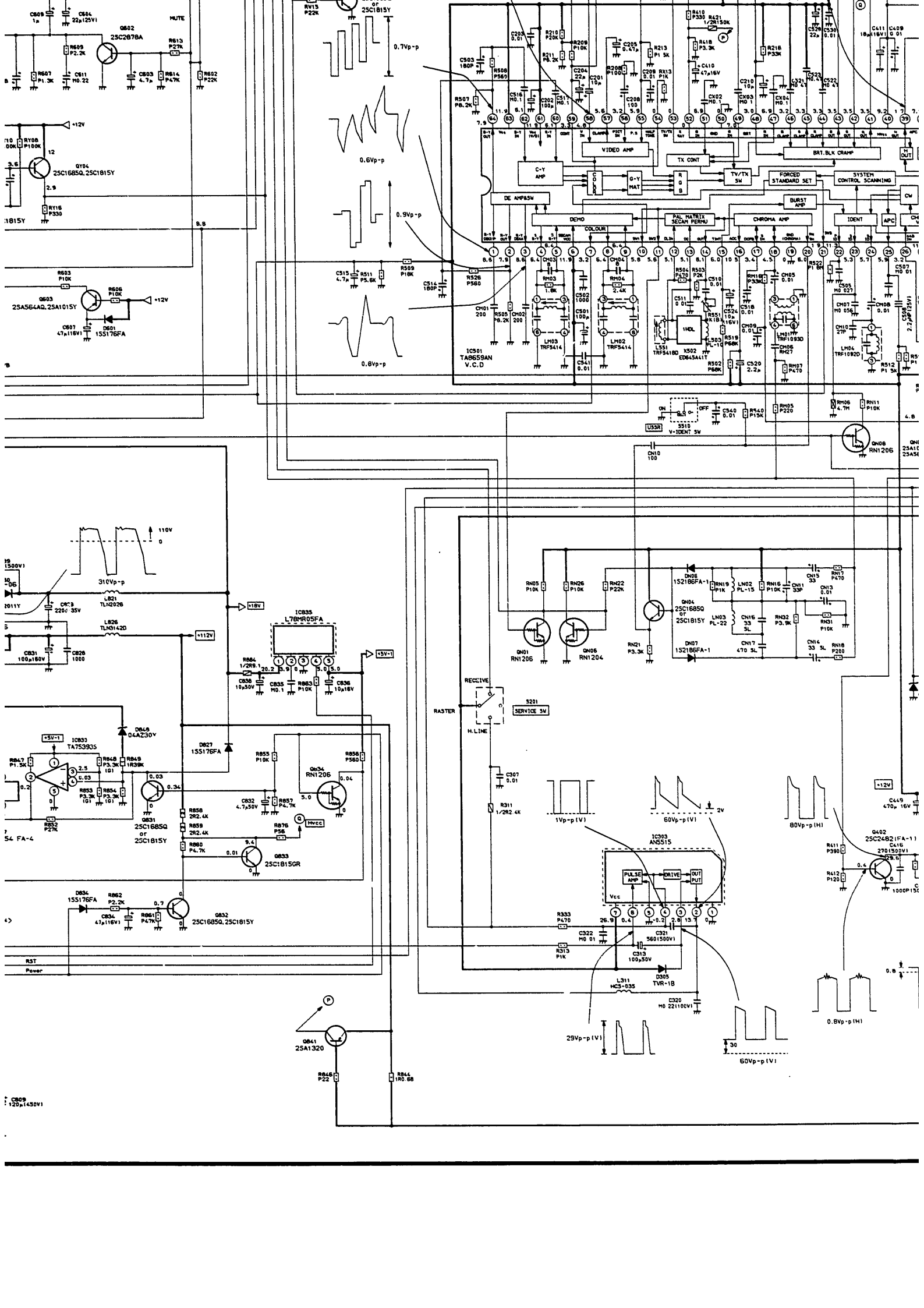
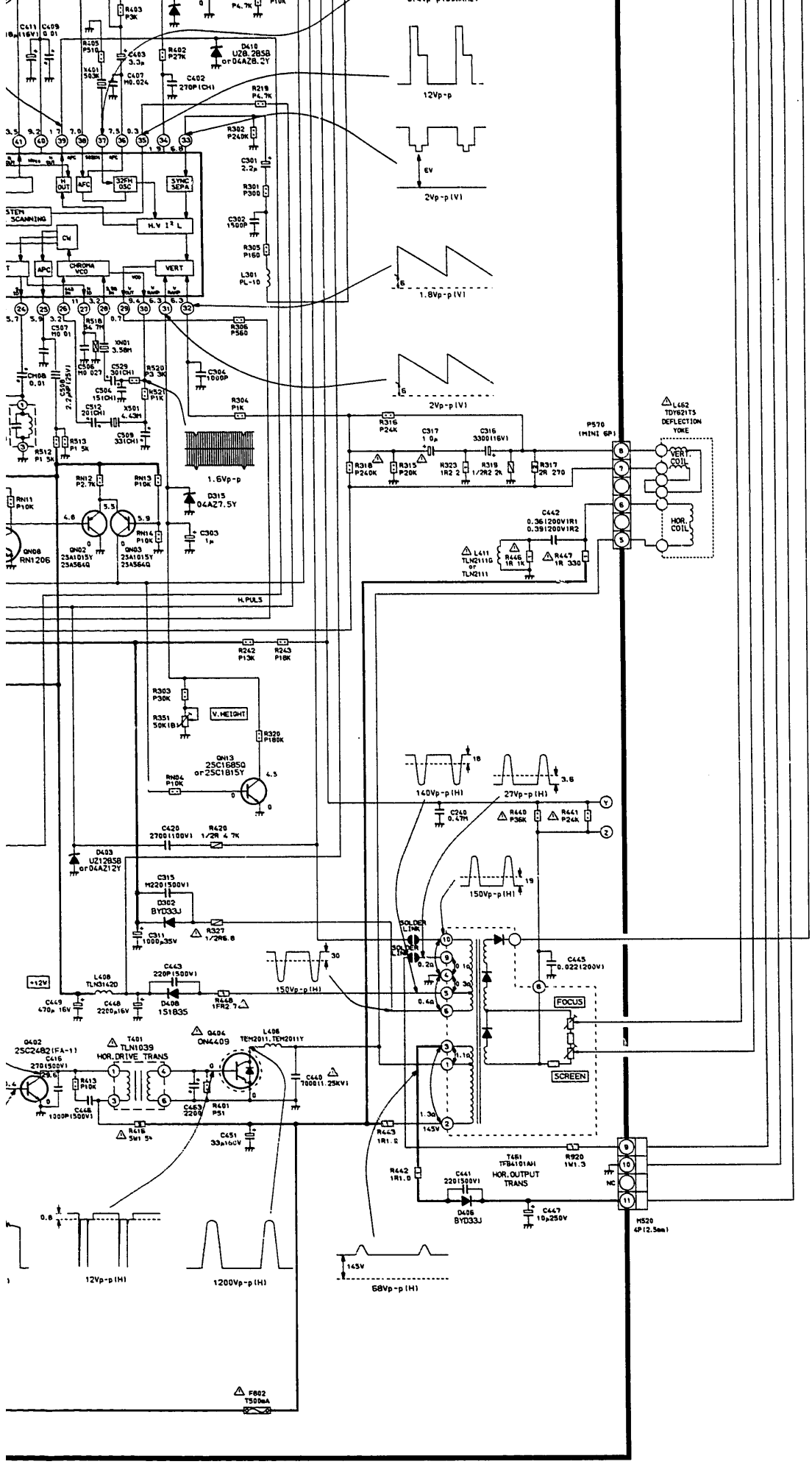



IC A01
TMP47C434N-3528Z
K901
IR-9107-K
IR AMP
STAND BY
QA12
2SC1685Q, 2SC1815Y
QA11
2SA1015GR
QA17
RN2201
POWER ON/OFF
STAND BY (RED)
ON TIMER (GREEN)
SA01 POS UP
SA02 POS DN
SA03 VOL UP
SA04 VOL DN
DA07 1SS176FA
DA08 1SS176FA
DA10 1SS176FA
DA11 1SS176FA
DA14 1SS176FA
QA06 2SA1015Y
QA07 2SC1815Y
IC A02
TC89101P121
QA08 2SC1685Q or 2SC1815Y
QA09 2SC1685Q or 2SC1815Y
DA25 1SS176
DA26 1SS176FA
DB01 1SS176FA
QB12 2SC1685Q
LA02 TRF1114 or TRF1114D
ON-TIMER
ON
OFF



IC671
TA8710S
ICV01
TA8628N
T803
TPW3172
T801
TRF3148
T802
TRF3165
POWER CORD
POWER SW.
TINT
CONT.
COL.
RST
Power
(SOUND MIN)
V.BLK
10Vp-p
550Vp-p
55Vp-p
2.4Vp-p
14Vp-p


Q602 2SC2878A
MUTE
+12V
QY04 2SC1685Q, 2SC1815Y
Q603 2SA564AQ, 2SA1015Y
D601 1SS176FA
0.7Vp-p
0.6Vp-p
0.9Vp-p
0.6Vp-p
1C501 TA8659AN V.C.D
VIDEO AMP
TX CONT
BRT.BLK CRAMP
C-Y AMP
G-Y MAT
TV/TX SW
FORCED STANDARD SET
SYSTEM CONTROL SCANNING
DE AMP&SW
BURST AMP
DEMO
COLOUR
PAL MATRIX SECAM PERMU
CHROMA AMP
IDENT
APC
3510 V-IDENT SW
QN08 RN1206
QN01 RN1206
QN06 RN1204
QN04 2SC1685Q or 2SC1815Y
QN07 1S2186FA-1
1C835 L78MR05FA
+18V
+12V
+5V-1
1C833 TA7539S
D849 04A230V
D827 1SS176FA
Q834 RN1206
Q831 2SC1685Q or 2SC1815Y
Q833 2SC1815GR
Q832 2SC1685Q, 2SC1815Y
D834 1SS176FA
RECEIVE
RASTER
H.LINE
3201 SERVICE SW
1C303 AN5515
PULSE AMP
DRIVE
OUT PUT
Vcc
D305 TVR-1B
Q841 2SA1320
Q402 2SC2482(FA-1)
310Vp-p
1Vp-p(V)
60Vp-p(V)
80Vp-p(H)
29Vp-p(V)
60Vp-p(V)
0.8Vp-p(H)
R3ST
Power


12Vp-p
6V
2Vp-p (V)
1.8Vp-p (V)
2Vp-p (V)
1.6Vp-p
H.PULS
V.HEIGHT
140Vp-p (H)
27Vp-p (H)
150Vp-p (H)
150Vp-p (H)
FOCUS
SCREEN
145V
68Vp-p (H)
12Vp-p (H)
1200Vp-p (H)
HOR. OUTPUT TRANS
HOR. DRIVE TRANS
DEFLECTION YOKE
VERT. COIL
HOR. COIL

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