14" XGA COLOR MONITOR

Sapposed to be for Bridge CAD235 but is closer to CAD356

SERVICE MANUAL

CAUTION:

Before servicing this chassis, it is important that the service technician should read the Safety Precautions and Product Safety Notice in this Service Manual.

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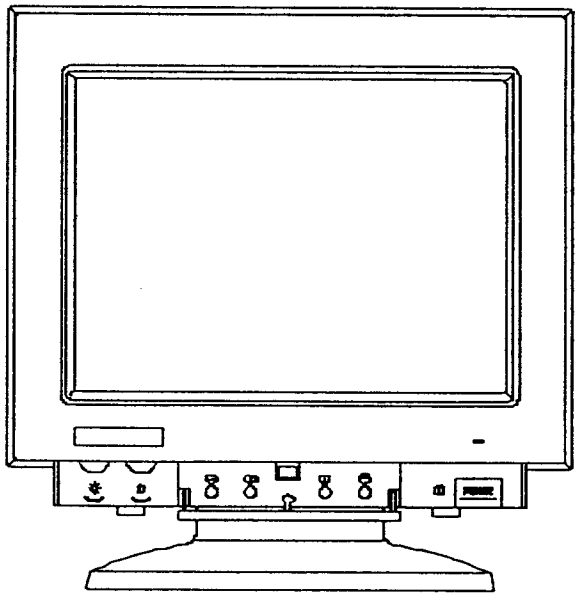


BRIDGE BRAND

SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT

HIGH RESOLUTION XGA COLOR MONITOR

V2-33

CAD235

CAD356

Theory of Operation

CAD-256 is a multisync color monitor. Its operation frequency horizontal is from 3OKHz to 64KHz and vertical is from 50Hz to 1OOHz. The circuitry are composited of 3 boards which are main board, switching mode power supply board and CRT board. Now detail the theory of operation in following paragraph.

1. The Main Board : The board contains horizontal deflection circuit vertical deflection circuit and signal processing circuit.

A. Horizontal Deflection :

The H. sync from pc or signal generator is input via R300 to IC U301 pin 16. IC U301 normalization the polarity of the sync. The output of the sync is negative polarity which is sent out from U301 pin 11.0300 is protecting diode for the IC U301. R329 and C317 is a high pass filter for the H. sync. The sync is fed through R329 and C317 to IC U301 pin 1. R330, R329 are bias resistors for the signal. IC U301 internally has two monostable multivibrator, their function is for H. phase control and AFC.

The external RC of U301 pin 2 is for phase control. SVR304 is for 48KHz and SVR305A is for 64KHz, they are internal phase adjustment V/R. The R311, C320 in IC U303 pin 3 decide the time constant of pseudo H. sync generator for AFC circuit. Pin 4 of U303 is the input pin of flyback pulse from FBT for **AFC** circuit. C322 in IC pin 5 is the sawtooth generation capacitor for flyback pulse. In IC pin 6 C323 is the filter capacitor for **AFC** detector. The AFC output current is output at IC pin 7, through R334 to correct the oscillation frequency. The H. oscillator is a *RC* oscillator, R335 SVR306 and C326 decide the free running frequency. With the F to V voltage from IC U301 and U302 it can run multifrequency. R336 is the discharge capacitor for the oscillator. The output driver duty cycle is decided by the *DC* bias of pin 11 or by R341, R340, R393, Q320.

The H. driver output is from pin 12 of IC U303. Q303 is the driver transistor which acts as a switch. During the time Q303 is driven on, energy is stored in the primary of T301. When Q303 off, energy is released through the secondary of T301 to drive the H. output transistor Q304. Q304 also acts as a switch. When Q304 is on, yoke current flows through L302, L303, C339 and yoke through Q304 to ground. During this period of time the scanning is from center of *CRT* to the right edge of *CRT*. Then **Q304** is switched off, the scanning current reversed to charge the tuning capacitor C330, C337 which forms a tank circuit with the inductance of *FBT* and yoke. The time when the current of yoke from max. to zero the voltage on the capacitor is changed to max. This is called flyback. Durng this period of time the scanning is from the right edge back to the center of *CRT*. Then the trning capacitor is discharged through yoke until the yoke current reaches its negative max. It contributes the scanning from the center of *CRT* to the left edge of *CRT*. By the time yoke current wants to charge the tuning capacitor, damping diode conducts, the scanning current reduces to zero. During this period of time the scanning is from left edge of *CRT* to center of *CRT*. By the time when yoke current nearly reaches zero the output transistor is driven on again, A scan cycle is finished. The cycle repeats.

L302 is the linearity coil, C339, C344, C342 is the "s" correction capacitor. The power *MOSFET Q309* is switched on when H. frequency below 48KHz and Q3IO is switched on when frequency below 35KHz, they are used to correct the linearity difference by the change of the frequency.

Pin 4 of *FBT* is B input for the H. deflection. C332, C331 are the by pass capacitors. Pin 5 supplies the AFC pulse. Pin 6 is for ABL control. Pin 8 is the negative supply for spot killer and brightness control. FBT pin 9 is for holddown, feedback for switching mode power control and supply voltage for blanking circuit.

This monitor uses diode modulation circuit for H. deflection. This circuit porvides DC control of H. width and pincushion. The vertical parabola is taken through the IC U402 pin 5 and pin 9 by the subtraction of vertical waveform. The output is then amplified by the other half of U402, the output is at pin 1 of U402. The V. parabola and H. H. sawtooth then is compared by IC U403 to generate PWM pulse to drive the bridge coil L301 of diode modulator. It will generate a AM V. parabola on the H. scanning which will correct the pincushion. Q306 is the driver transistor, D319, C333, Q305, R349, D318, R345, R349 are clipper circuit which limits the pulse amplitude on the collector of Q306.

The DC bias on pin 3 of U403 can decide the H. width. The DC bias is setting by R379, VR302, SVR302, SVR303 and SVR300. SVR300 is for 31.5KHz, SVR302 is for 35K, 38KHz, SVR303 is for 56K, 64K, they are internal setting *VRS. The* V. parabola is output from pin 7 of U402. R447, R420, R417, R419, Q401, Q402 and U301 which control the amplitude of parabola for different operation mode and frequency. R440, ZD401, C421, C417 provide the + 15VDC supply for U402, U403. Q312 is an emitter follower.

B. Vertical Deflection :

Vertical sync via R400 C401 input to pin 27 of IC U301. IC U301 internally normalizes the polarity of the sync. The "negative" sync is output from pin 12 of U301. The sync is input to IC U303 pin 19 via C403, while the other path is fed via C402, R403, Q403, R424, D405 to vertical oscillator for force synchronization. R425, C404 connect on IC pin 18 and IC internal circuit form a RC oscillator. IC U303 pin 16 is the output pin for V. sync, this signal is used to trigger the vertical output IC U401, the input pin is pin 2. R429, R430 supplies the DC bias for the sync, U401 pin 1is + 12V power supply. Pin 4 is vertical size control input. When we change Q404 base voltage, we can control the vertical size. R426, R411, D401, D402, R410, D403, R409, R408, *R407 R402, R412* and external control *VR 401 are* the parts for vertical size control. C411 in IC U401 pin 6 is the capacitor for ramp generator. Pin 7 of IC is AC and *DC* feedback control input. + 22V supply is at IC pin 8. The output of vertical can directly drive the yoke C419 is vertical S correction capacitor. R436 can decide the amplitude of yoke current. R435, SVR401, C418, R434 are V. linearity correction circuit. Q405, Q406, C420, R437, VR402 and R422 are vertical centering control circuit, which supply or sink current from yoke or adjust the centering. D406, C412 and IC 401 internal circuit form a pumb circuit which supply double of the supply for vertical retrace in order to shorten the vertical retrace time.

C. **Signal Processing Circuit:**

H. and V. sync is fed to U301. IC U301 discriminates the operation mode and sync pulse polarity detection and horizontal F to V converter and clamping pulse generation.

H. *F/V IC* internally converts the frequency to voltage. The output is at pin 17 of U301. The output voltage of F/V can be set by SVR301. U302 pin 5.6.7. acts as a voltage limiter and pin 1.2.3. is a source follower. When no H. SYNC input or too low frequency H. sync, the F/V voltage is output at the lowest setting voltage 3.15V to avoid malfunction due to too low of the operation frequency. This F/V voltage is used to control the H. oscillator to meet multifrequency operation demand. Pin 24, 26 and crystal X301 with the internal IC circuit is a oscillator which supply the clock for IC internally usage. IC mode detector outputs are pin 28, 29, 30, 31, 32 and pin 1 which are separaly for 31.5K, 35K, 37K, 48K, 56K, 64K. IC pin 4.5.6.7.8.9. are outputs for 1024x768, 1024x768(1), 80Ox600, 64Ox480, 64Ox400, 64Ox350 which are used for vertical size control. IC pin *2,3* are detector output of vertical frequencies, pin 2 is low when V. frequency 65Hz and pin 3 is low when V. frequency 78Hz. These outputs are to control the H. width, H. phase, V. size and pincushion.

2. S.M.P.S. Board :

AC input voltage passes the EMI filter LF102, C102, ClOl, Cl03 is added to the bridge rectifier DlOl DlO4; *ClOO, CIO5 are* filter capacitors. IC UlOl is control IC for SMPS. The free running frequency is decided by Cl13 and R109 in IC pin 4 and 8. The monitor is a synchronized type its operation frequency is the same as the H. operation frequency. IC pin 1 is the frequency compensation input pin for error amplifier. R112, Cl15 are compensation RC. Pin 2 is the invert input pin of error amplifier which controls the output voltage. The error amplifier non- inverter input pin is internally connected to a 2.5V bias. IC pin 3 is the input of current sense, during the time the current exceeds the setting point, the IC output will be disable. This is to protect the power supply from overload or shorted circuit. The current detecting circuit are R108, R116, C116. Pin 5 is grounding pin. IC pin 6 is the output of driver which can directly drive power MOSFET. Pin 7 is the voltage supply pin for the IC. IC pin 8 is the reference voltage output pin.

While AC is added to SMPS, DC is output at ClOO, RIO2 supplies the current for starting up of the IC. After started the power transformer supplies through R106, D106 for the normal operation. *D107, R107, Cl07 D105, R105, Cl06* are snubber circuit which used to protect the power MOSFET during turning on and off.

B output: FBT pin 9 output a voltage after divided is feedback to SMPS. This voltage is to control the SMPS during frequency or load change. TL431 (1C U121), Q121 and Tl21 are magnetic amplifier circuit which is used ot control the voltage need for different operation frequencies.

The other voltage outputs circuit are feedback control through + 92V and + 22V by R137 and *R144. The* feedback is input to U123 which controls the photo coupler (U102) or to control the primary control IC *UlOl* to get a stable voltage output. + 12V is got from + 22V through U122 the 7812.

3. Video :

R.G.B. video signal fed from pc or signal generator is add to video preamplifier IC U201. The video after amplification is output to final output stage for power amplification. All the three video cir cuit are identical, we just describe the R channel only.

R signal is input through C201, C202 to IC U201 pin 4. R202 supplies the *DC* bias. R201 is the impedance matching resistor. IC pin 11 is the reference voltage output. IC pin 12 is the contrast control *DC* input pin, the *DC* level will change the P-P voltage. Pin 2, and 3 connection capacitor C208, C209 are high frequency by pass capacitors. The amplifier got two stages. At 2nd stage the clamping function is added. The clamping pulse is taken from IC U301 pin 10. After inverting by Q293 is added to IC pin 14. With the pulse and C207 in pin 5, it generates a *DC* voltage on C207. This is to sustain the black level of the video to a fix *DC* level. The pre-amplifier is output at IC pin 25. The pin 27 of IC is the emitter connection pin of the output amp- amplifier, or when we changes the impedance we can control the output video amplitude. IC pin 26 is the noninverter input of the comparator. clamp comparator. IC pin 24 is the inverter input of the clamp comparator. When we change the *DC* bias of pin 24 (by *SVR* 202), we can change the *DC* bias of the video output driver, that to say the *DC-BUS* of the output amplifier.

Output stage Q202, Q2O1 which connected as a cascade power amplifier configuration. The gain of the amplifier is decided by *R211* and R207. R208, C205 is the emitter peaking *RC.* L202, L201 also used as a frequency compensation. R209 is connected to + 12V which provides a *DC* bias for Q206. C206 is a filter capacitor. Q201 is connected as CE and Q202 is as a CB amplifier. Q203, Q204 forms a buffer to match the impedance between the power amplifier and *CRT* cathode. D200, R214, *GAP201* are arcing protection parts.

ABL: When CRT beam current exceeds the setting 450gA, ABL output of FBT sinks the current so the voltage is pulled low, which makes Q291 conducts. It also makes Q292 driven on. This will low down the IC pin 12 voltage. It will make the video peak to peak voltage drop that to say CRT beam current is limited.

CAD-256 ALIGNMENT PROCEDURE

1. SET UP

A. EQUIPMENTS

a.SIGNAL GENERATOR ..,..... VG815 OR VG819 OR EQUIVALENT.

b. COUNTER..... HIGH RESOLUTION COUNTER OR EQUIVALENT.

c.MULTIMETER .....HP3466 OR EQUIVALENT.

d.COLOR ANALYZER .....MINOLTA TV-2130 OR EQUIVALENT.

e.DEGAUSSING COIL.....HOZAN HC-21 OR EQUIVALENT.

f.CONVERGENCE METER .....KLEIN CM7AG OR EQUIVALENT

2. ALIGNMENT PROCEDURE

SET ALL THE VR'S IN THE MIDDLE POSITION, INCLUDING EXTERNAL ADJUSTMENT VR'S. EXTERNAL AC IS 115 OR 220V.

A. HORIZONTAL FREE RUN FREQUENCY (HFl)

a.DISCONNECTED THE SIGNAL CABLE.

b.USE COUNTER THE "+ "INPUT TERMINAL IS CONNECTED TO THE OUTSIDE SLEEVE OF CRT YOKE RED COLOR WIRE, AND NEGATIVE OF COUNTER TO GND.

c. ADJUST SVR306 ON THE MAIN BOARD TO GET 28KHz±O.lKHz READING.

B. VOLTAGE ADJUSTMENT

a.INPUT 31.5KHz VGA TIMING (08 OF VG815).

b.CONNECT VOLTAGE METER TO CRT SOCKET HEATER INPUT AND GND.

c.ADJUST SVR121 ON POWER BOARD TO GET 6.0 O.O5VDC.

C. **B + VOLTAGE**

a.INPUT 31.5KHz VGA TIMING (08 OF VG815).

b.CONNECT VOLTAGE METER TO FBT PIN 7 AND GND.

c.ADJUST SVR310 ON MAIN BOARD TO GET 62.0±0.5VDC.

D. HORIZONTAL F/V (HF2)

a.INPUT 31.5KHz VGA TIMING (08 OF VG815).

b.CONNECT VOLTAGE METER TO F/V OUTPUT VOLTAGE R390 AND GND.

c.ADJUST SVR301 TO GET 3.7VDC.

d.DISCONNECT THE VOLTAGE METER, CHECK WHETHER 35.5KHz, 37.8KHz, 48KHz, 56KHz, 64KHz ARE ALL CAN BE HOLD.

E. H. CENTER

a.INPUT 31.5KHz VGA TIMING (08 OF VG815).

b.ADJUST G2 SLIGHTLY TURN ON THE RASTER.

c.ADJUST SVR311 TO CENTER THE RASTER IN THE BEZEL.

F. H. PHASE

a.INPUT 31.5KHz VGA TIMING (08 OF VG815).

b.PUT THE EXTERNAL ADJUSTMENT VR TO THE CENTER POSITION.

c.ADAPT 48KHz/60Hz TIMING (22 OF VG815), ADJUST SVR304 ON THE MAIN BOARD TO CENTER THE VIDEO.

d.ADAPT 56KHz/70Hz TIMING (26 OF VG815), ADJUST SVR305 ON THE MAIN BOARD TO CENTER THE VIDEO.

e.ADAPT 64KHz/60Hz TIMING (29 OF VG815), ADJUST SVR305A ON THE MAIN BOARD TO CENTER THE VIDEO.

f.CHECK THE OTHER TIMINGS 35.2K, 35.5K, 37.8KHz H. PHASE.

G. H. WIDTH

a.INPUT 31.5KHz VGA TIMING (08 OF VG815).

b.SET THE EXTERNAL H. WIDTH VR TO THE CENTER POSITION.

c.ADJUST SVR300 ON THE MAIN BOARD TO GET 244mm WIDTH.

d.ADAPT 35.52KHz INTERLACE SVGA TIMING (13 OF VG815), ADJUST SVR302 ON THE MAIN BOARD TO GET 244mm H. WIDTH.

e.ADAPT 56KHz/70Hz (26 OF VG815), ADJUST SVR303 ON THE MAIN BOARD TO GET 244mm H. WIDTH.

f.CHECK THE OTHER TIMINGS 35.2K, 37.8K, 48KHz H. WIDTH.

H.V LINEARITY

a.INPUT 35.52Kz INTERLACE SVGA TIMING (13 OF VG815).

b.ADJUST SVR401 TO OPTIMIZE THE V. LINEARITY.

I. PINCUSHION

a.INPUT 35.5KHz INTERLACE SVGA TIMING (13 OF VG815), ADJUST SVR402 TO GET THE BEST PINCUSHION.

b.ADJUST SVR403 TO GET BEST TRAPEZOID.

J. WHITE BALANCE

a.CUT-OFF

a-l.INPUT 35.5KHz INTERLACE FULL WHITE SVGA TIMING (12 OF VG815), SET EXTERNAL CONTRAST VR TO MAX. EXTERNAL BRIGHTNESS VR TO MIN.

a-2.DEGAUSSING THE UNIT, PUT THE COLOR SENSOR TO THE CENTER OF CRT.

a-3.ADJUST SVR102, SVR232, SVR262 TO COUNTERCLOCKWISE MAX., SVR201, SVR261 SET IN THE MIDDLE.

a-4.ADJUST THE EXTERNAL CONTRAST VR TO GET 2.5FL LIGHT OUTPUT.

a-5.ADJUST SVR102, 232, 262 TO GET x = 281 y = 311.

b.WHITE BALANCE

b-l.USE TV-2130 AND ADJUST EXTERNAL CONTRAST VR TO GET 2OFL LIGHT OUTPUT.

b-2.ADJUST SVR201, SVR261 TO GET x = 281 y = 311.

K.G2

a. ADAPT 35.5KHz INTERLACE SVGA TIMING (13 OF VG815).

b. ADJUST G2 TO CUT-OFF THE LAST SHADE OF THE COLOR GRAY SCALE.

L.FOCUS

a.INPUT 35.5KHz INTERLACE SVGA (19 OF VG815).

b.ADJUST FOCUS VR ON THE FBT TO OPTIMIZE THE FOCUS OF THE QUARTER PORTION OF THE DISPLAY.

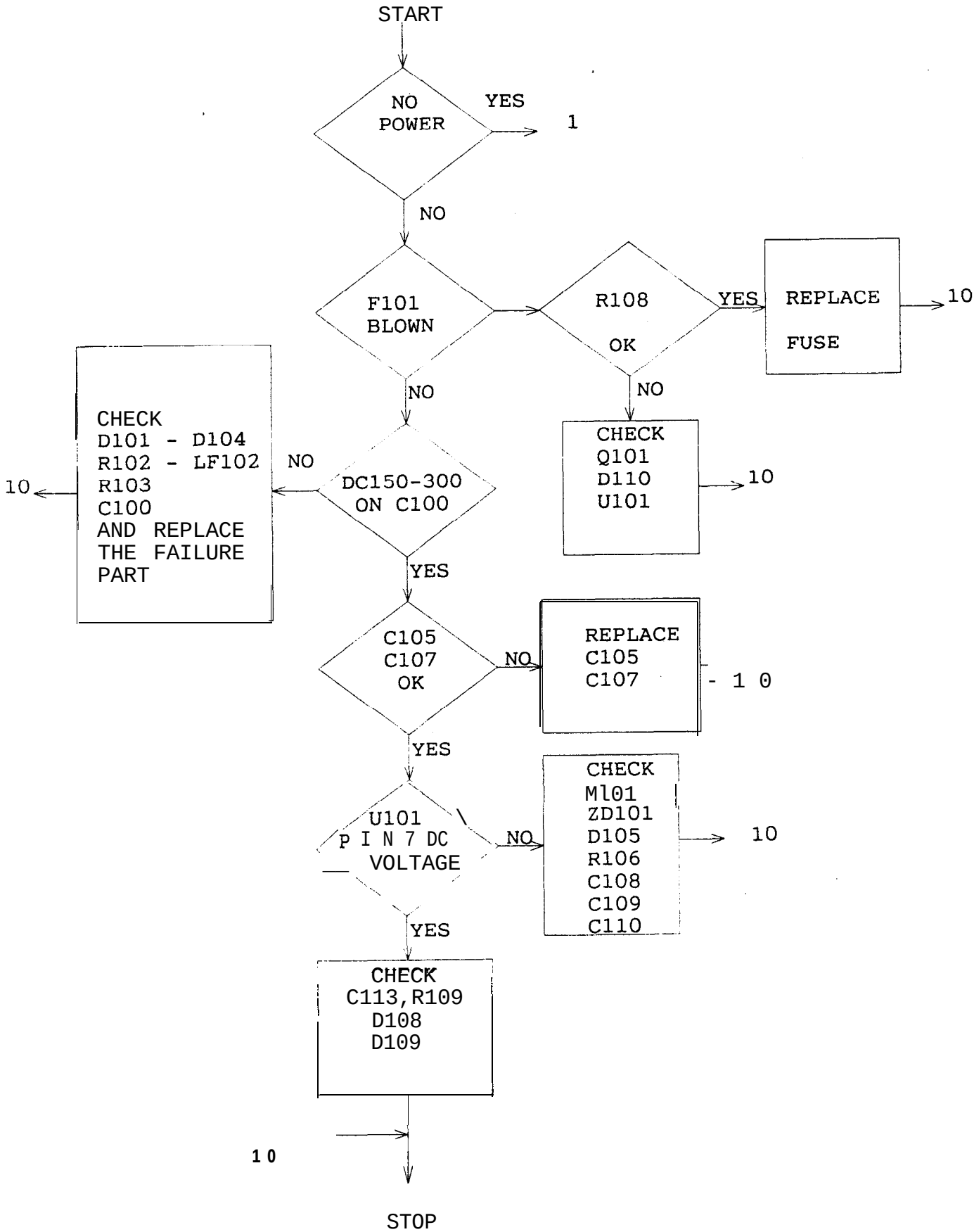
M. CG

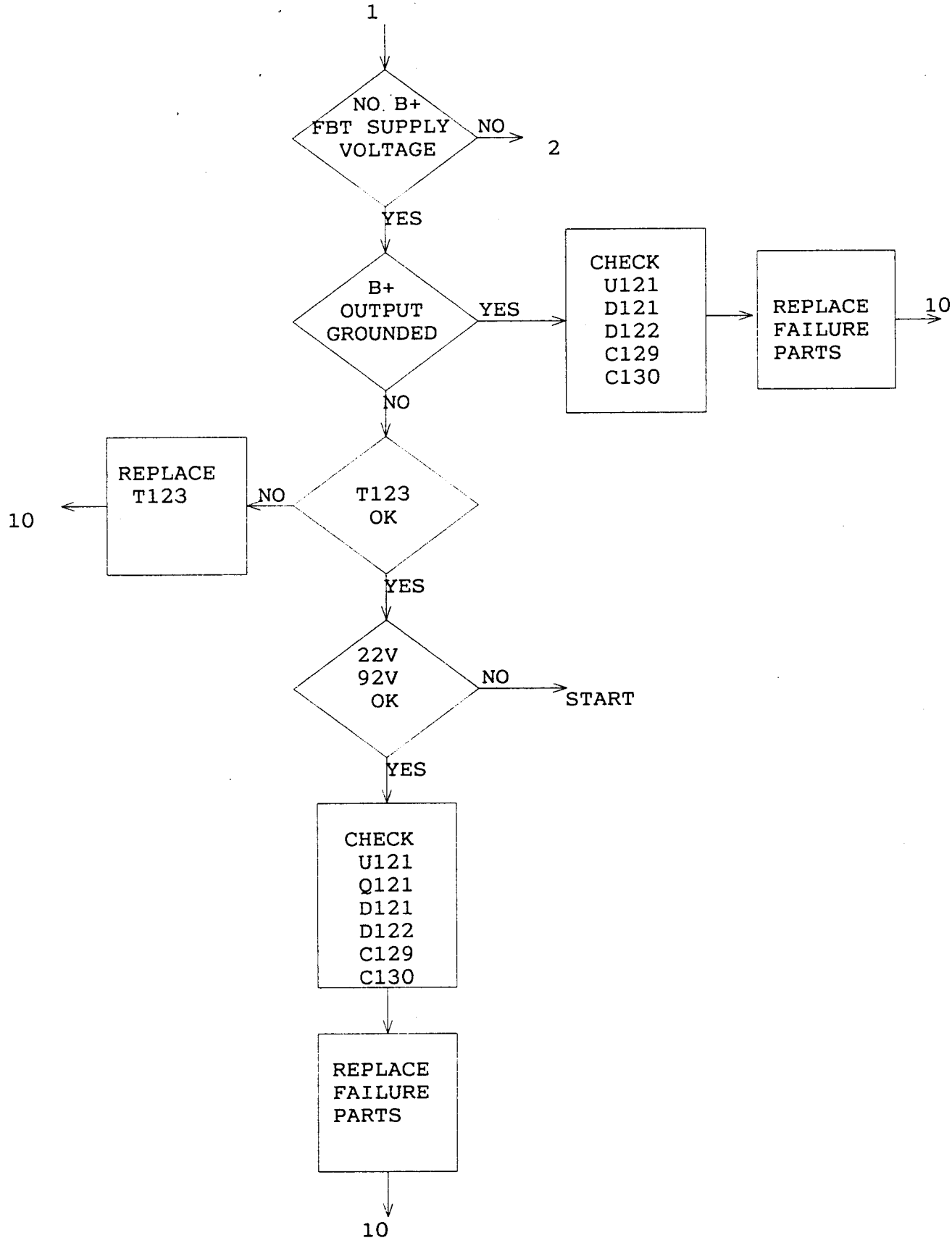
a.INPUT 35.5KHz INTERLACE SVGA (19 OF VG815).

b.ADJUST THE CG RING TO GET BEST CG.

c.IF THE ADJUSTMENT OF ITEM b.CAN'T LET THE CG MEET SPECIFICATION, USE THE STICKS WITH FERRITE SHEET TO COMPENSATE THE CG TO MEET REQUIREMENT.

TROUBLE SHOOTING




1
NO. B+
FBT SUPPLY
VOLTAGE
NO
2
YES
B+
OUTPUT
GROUNDED
YES
CHECK
U121
D121
D122
C129
C130
REPLACE
FAILURE
PARTS
10
NO
REPLACE
T123
10
NO
T123
OK
YES
22V
92V
OK
NO
START
YES
CHECK
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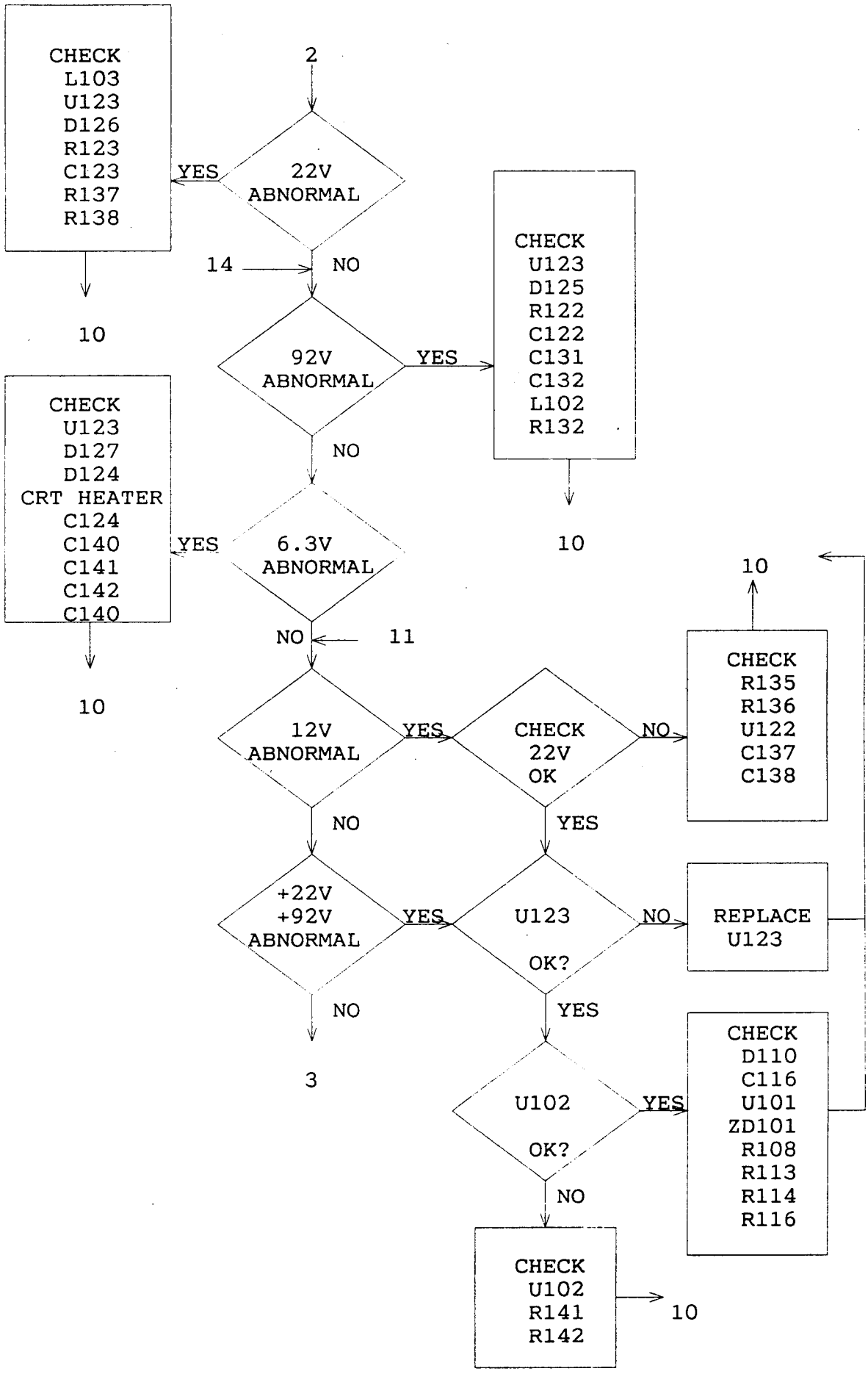
Q121
D121
D122
C129
C130
REPLACE
FAILURE
PARTS
10


CHECK
L103
U123
D126
R123
C123
R137
R138
2
22V
ABNORMAL
YES
14
NO
10
92V
ABNORMAL
YES
CHECK
U123
D125
R122
C122
C131
C132
L102
R132
10
NO
CHECK
U123
D127
D124
CRT HEATER
C124
C140
C141
C142
C140
6.3V
ABNORMAL
YES
10
NO
11
10
12V
ABNORMAL
YES
CHECK
22V
OK
NO
CHECK
R135
R136
U122
C137
C138
NO
YES
+22V
+92V
ABNORMAL
YES
U123
OK?
NO
REPLACE
U123
NO
YES
3
U102
OK?
YES
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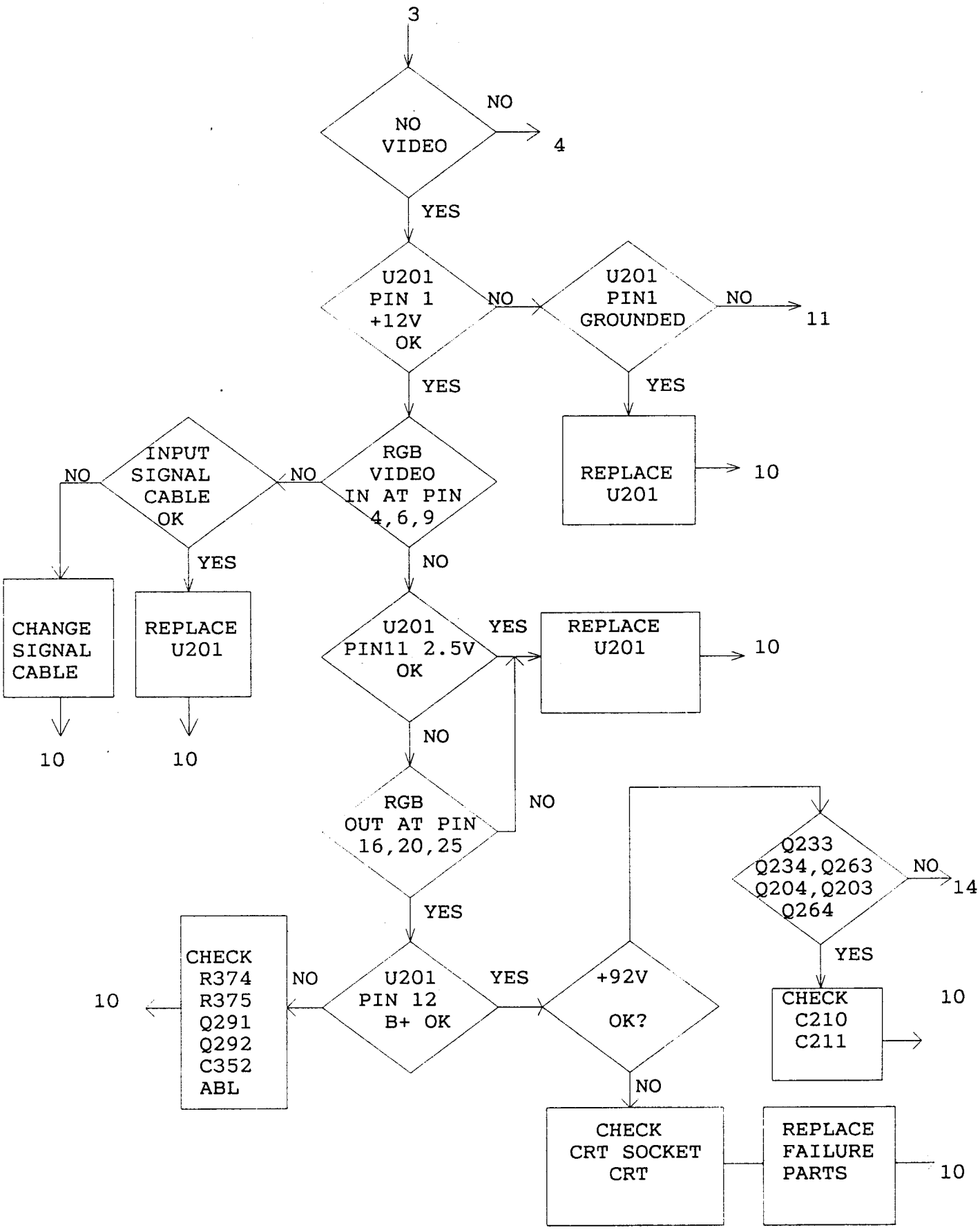
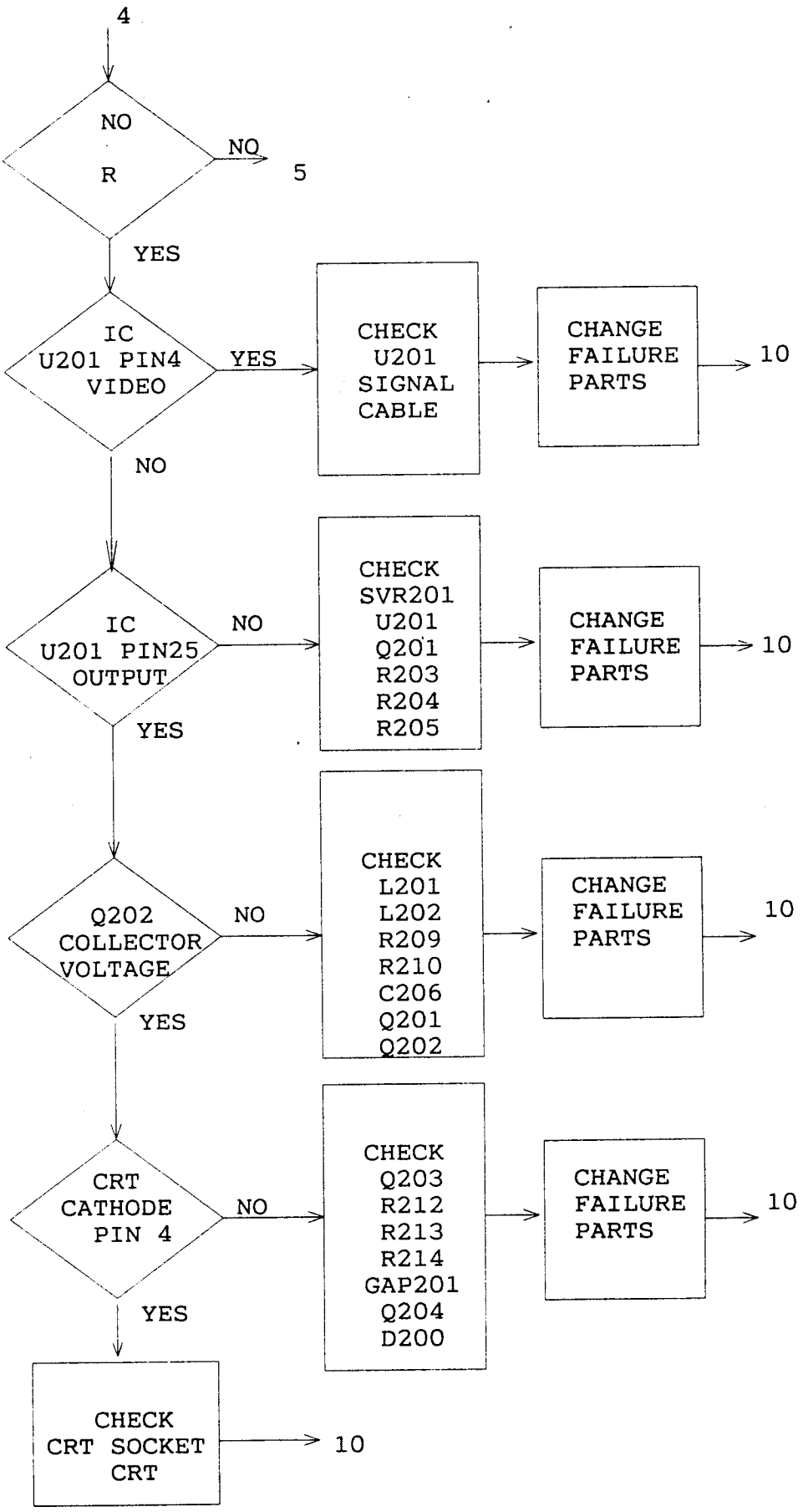
U101
ZD101
R108
R113
R114
R116
NO
CHECK
U102
R141
R142
10


3
NO VIDEO
NO
4
YES
U201 PIN 1 +12V OK
NO
U201 PIN1 GROUNDED
NO
11
YES
YES
REPLACE U201
10
INPUT SIGNAL CABLE OK
NO
NO
RGB VIDEO IN AT PIN 4,6,9
NO
YES
CHANGE SIGNAL CABLE
REPLACE U201
10
10
U201 PIN11 2.5V OK
YES
REPLACE U201
10
NO
RGB OUT AT PIN 16,20,25
NO
YES
Q233 Q234,Q263 Q204,Q203 Q264
NO
14
YES
CHECK R374 R375 Q291 Q292 C352 ABL
10
NO
U201 PIN 12 B+ OK
YES
+92V OK?
CHECK C210 C211
10
NO
CHECK CRT SOCKET CRT
REPLACE FAILURE PARTS
10


4
NO
R
NO
5
YES
IC
U201 PIN4
VIDEO
YES
CHECK
U201
SIGNAL
CABLE
CHANGE
FAILURE
PARTS
10
NO
IC
U201 PIN25
OUTPUT
NO
CHECK
SVR201
U201
Q201
R203
R204
R205
CHANGE
FAILURE
PARTS
10
YES
Q202
COLLECTOR
VOLTAGE
NO
CHECK
L201
L202
R209
R210
C206
Q201
Q202
CHANGE
FAILURE
PARTS
10
YES
CRT
CATHODE
PIN 4
NO
CHECK
Q203
R212
R213
R214
GAP201
Q204
D200
CHANGE
FAILURE
PARTS
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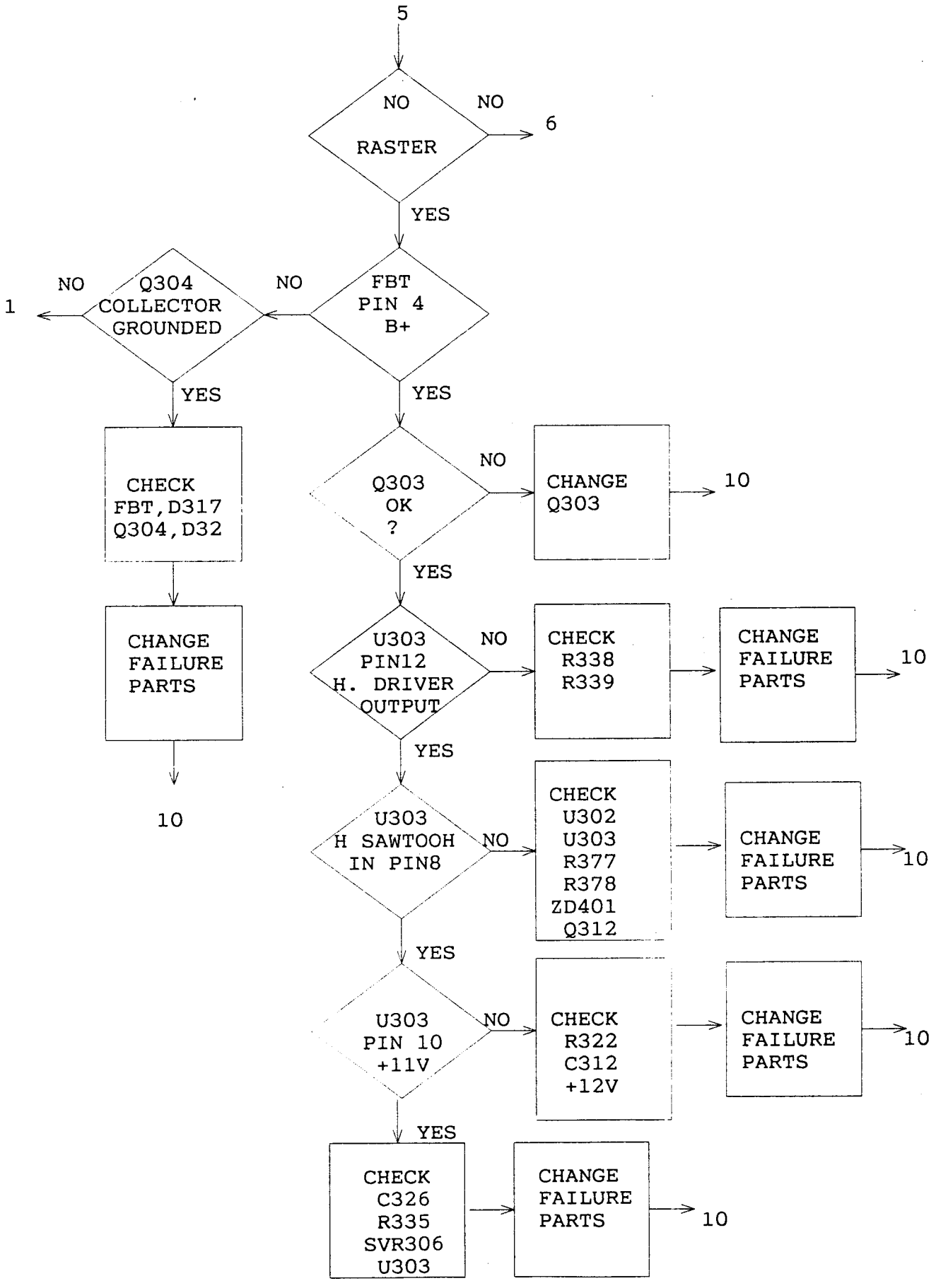
YES
CHECK
CRT SOCKET
CRT
10


5
NO
RASTER
NO
6
YES
NO
Q304
COLLECTOR
GROUNDED
NO
FBT
PIN 4
B+
1
YES
YES
CHECK
FBT,D317
Q304,D32
Q303
OK
?
NO
CHANGE
Q303
10
YES
CHANGE
FAILURE
PARTS
U303
PIN12
H. DRIVER
OUTPUT
NO
CHECK
R338
R339
CHANGE
FAILURE
PARTS
10
YES
10
U303
H SAWTOOH
IN PIN8
NO
CHECK
U302
U303
R377
R378
ZD401
Q312
CHANGE
FAILURE
PARTS
10
YES
U303
PIN 10
+11V
NO
CHECK
R322
C312
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FAILURE
PARTS
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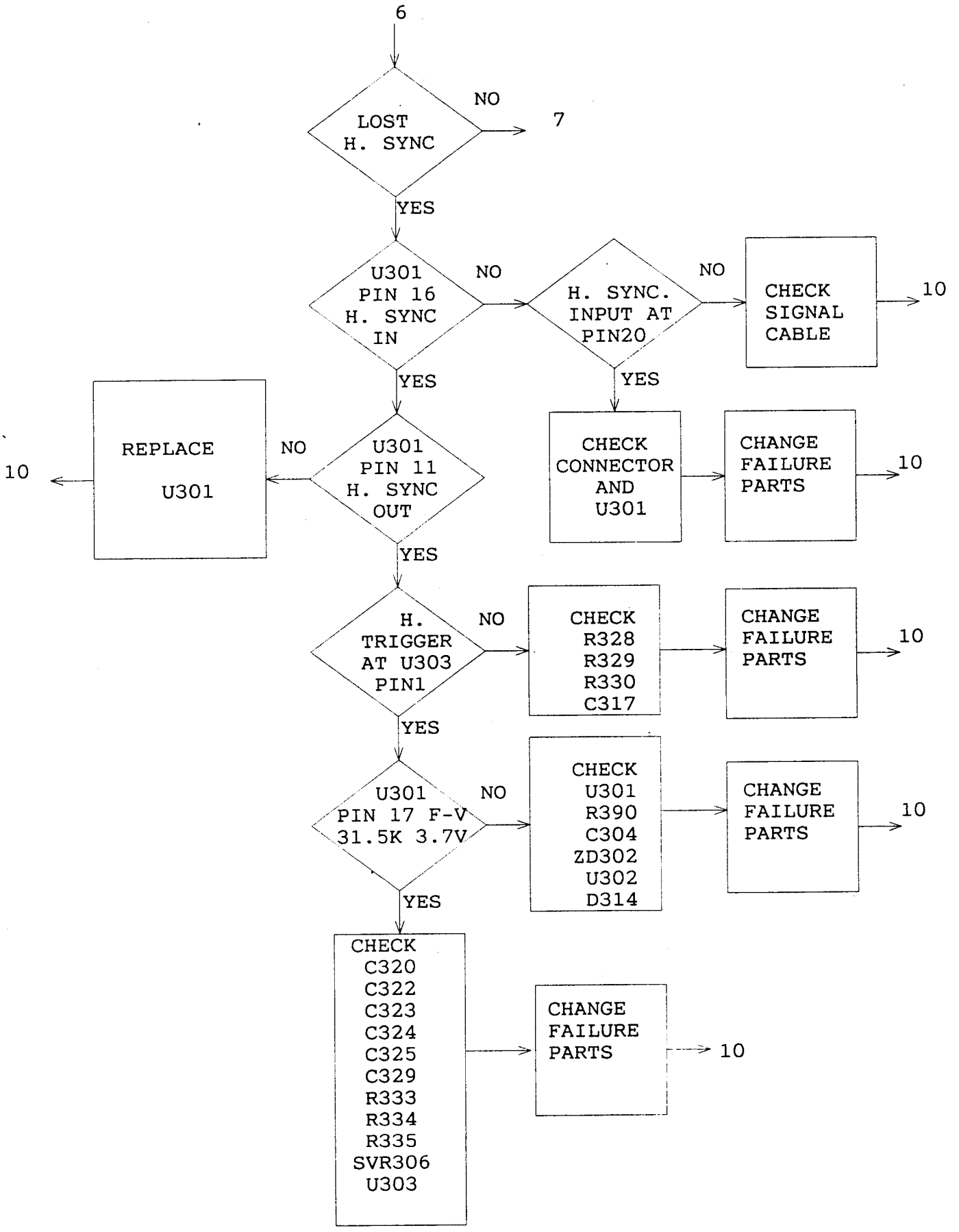
6
LOST H. SYNC
NO
7
YES
U301 PIN 16 H. SYNC IN
NO
H. SYNC. INPUT AT PIN20
NO
CHECK SIGNAL CABLE
10
YES
YES
REPLACE U301
10
NO
U301 PIN 11 H. SYNC OUT
CHECK CONNECTOR AND U301
CHANGE FAILURE PARTS
10
YES
H. TRIGGER AT U303 PIN1
NO
CHECK R328 R329 R330 C317
CHANGE FAILURE PARTS
10
YES
U301 PIN 17 F-V 31.5K 3.7V
NO
CHECK U301 R390 C304 ZD302 U302 D314
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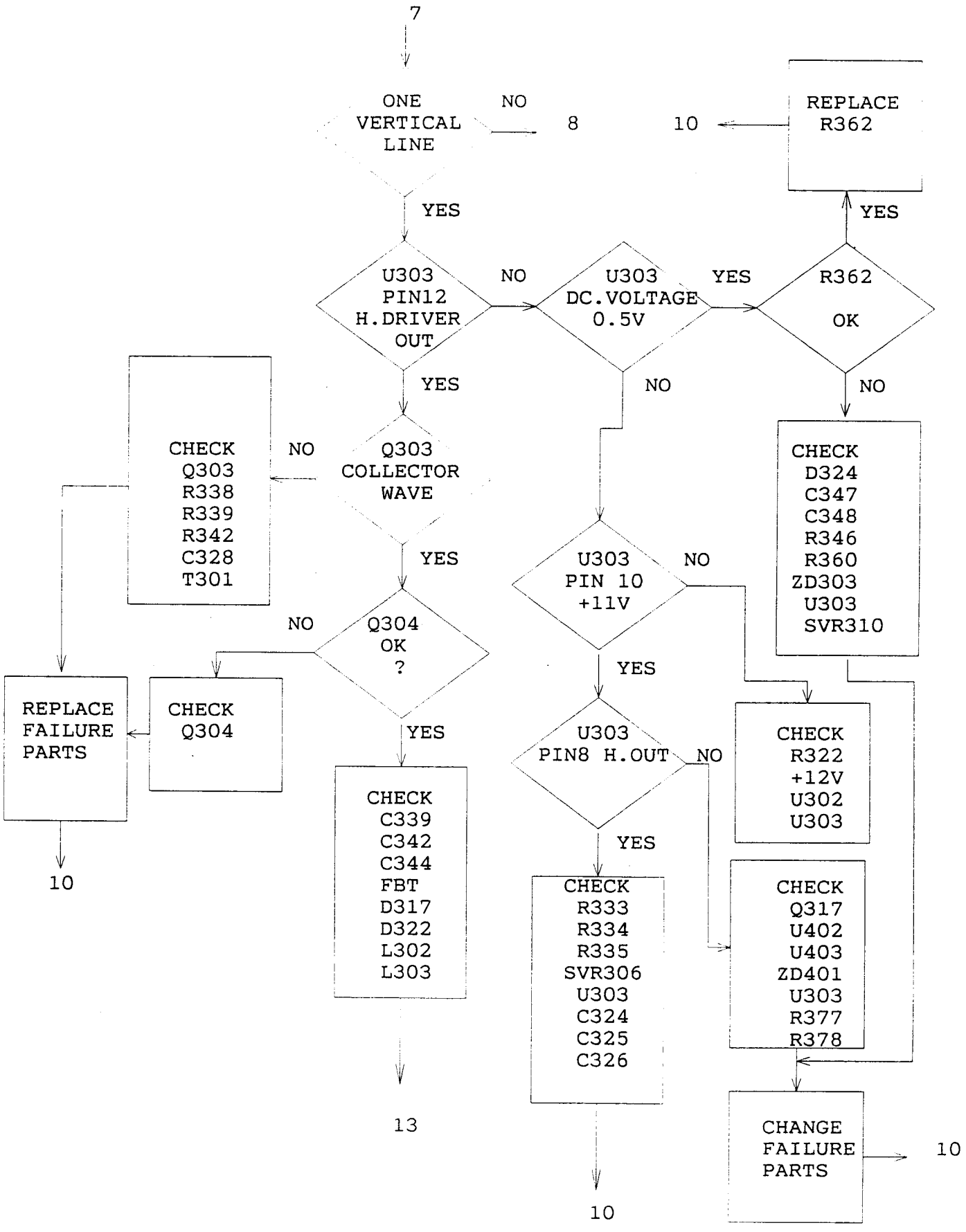
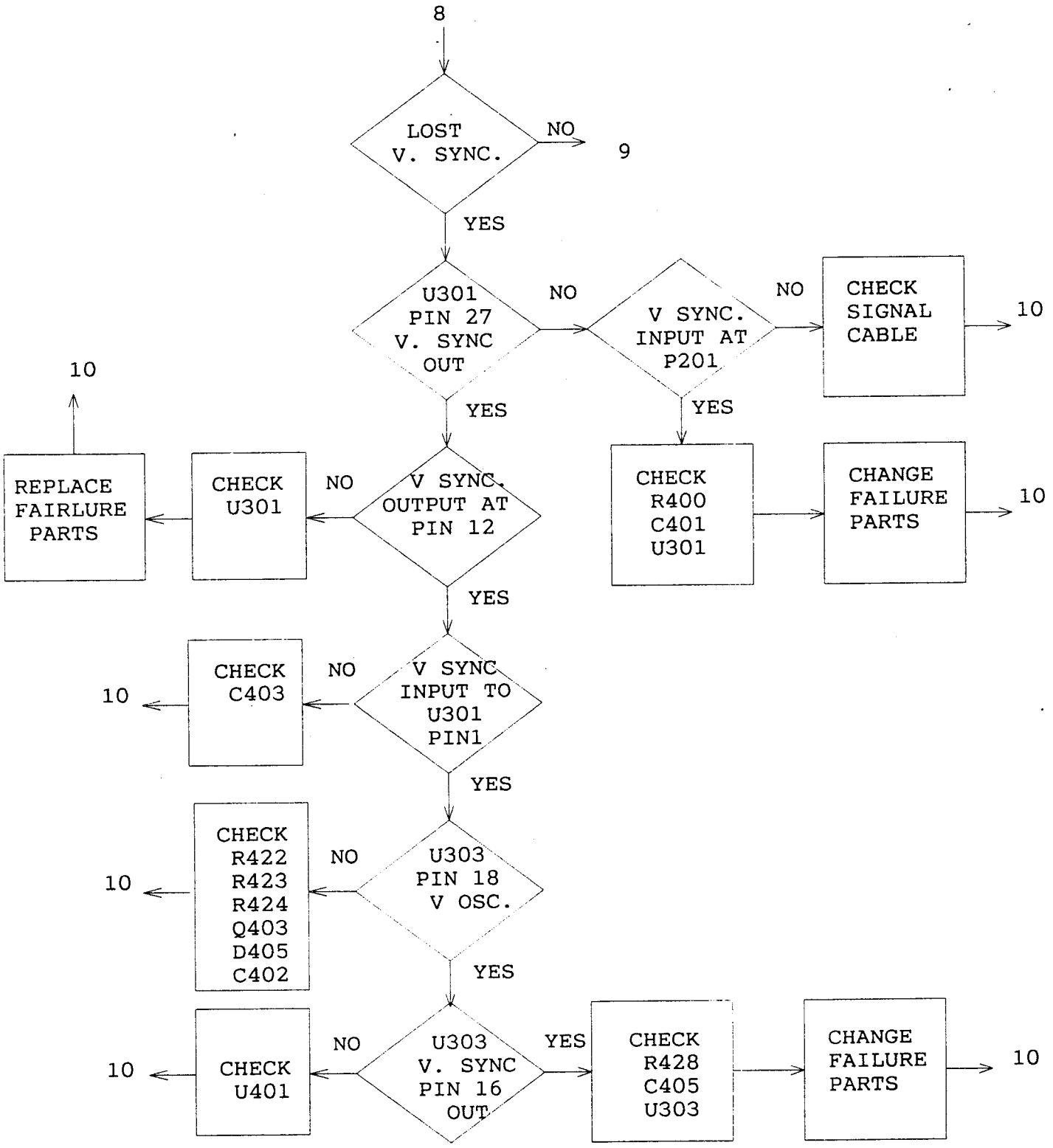
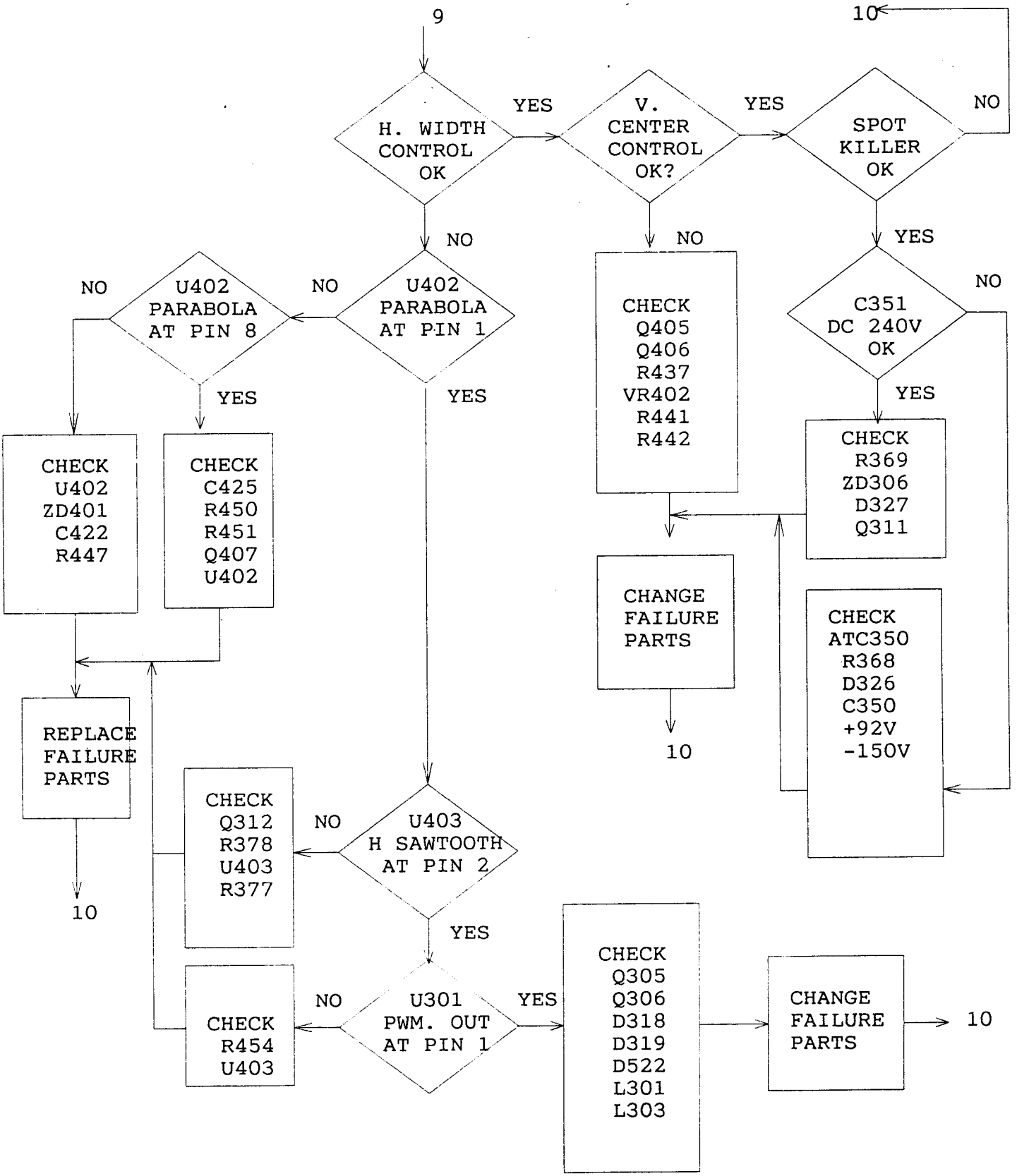
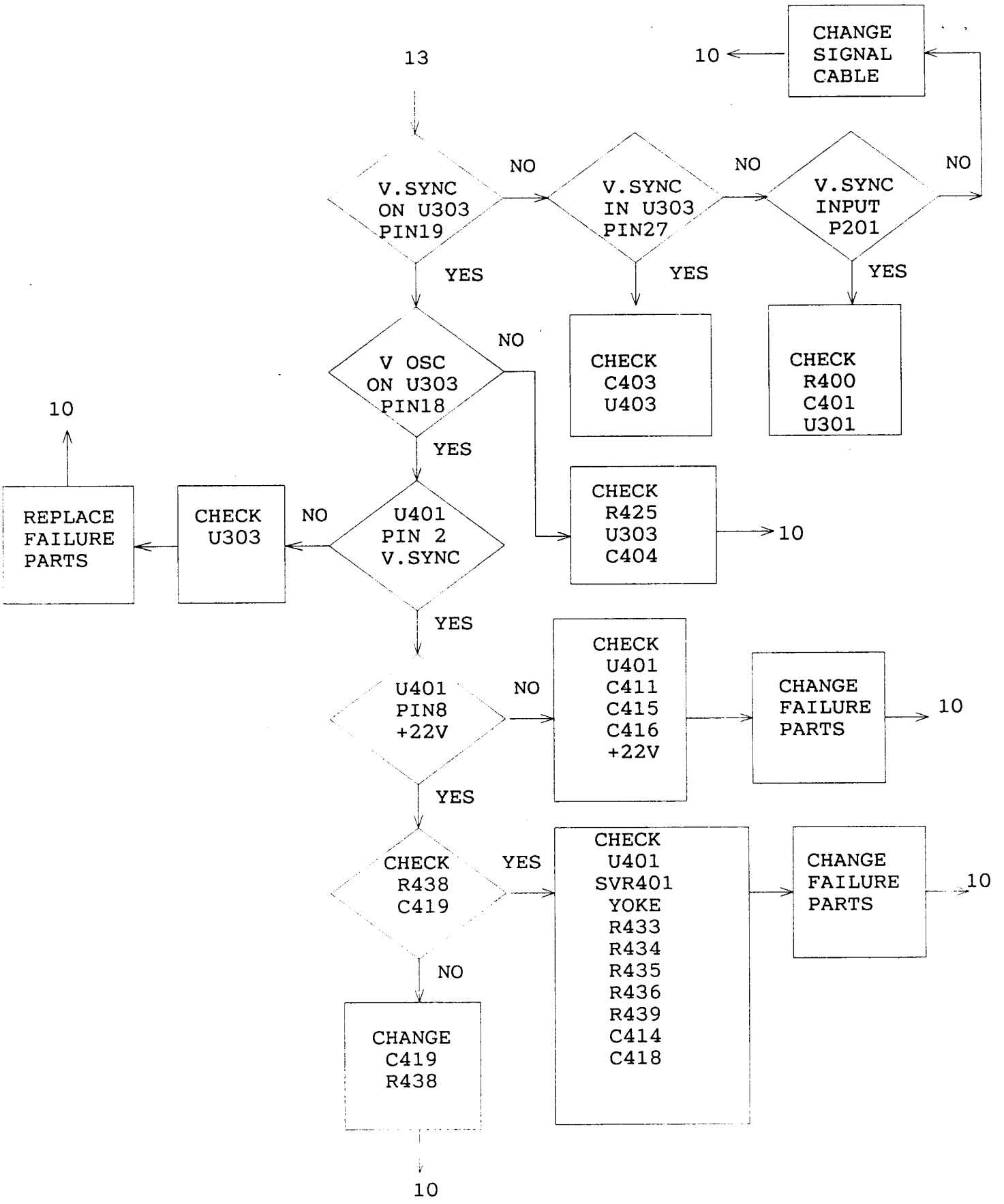
CHECK C320 C322 C323 C324 C325 C329 R333 R334 R335 SVR306 U303
CHANGE FAILURE PARTS
10

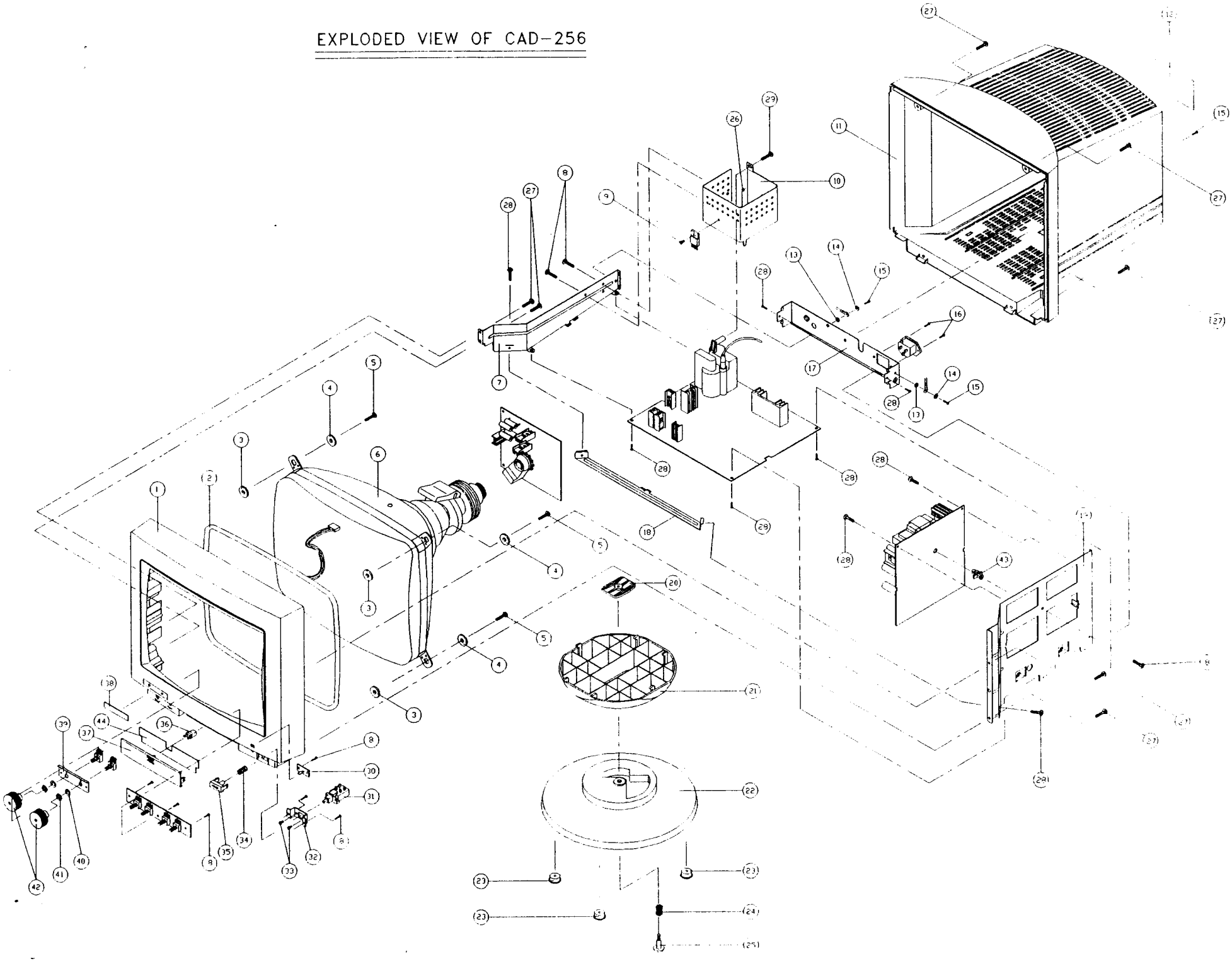

7
ONE VERTICAL LINE
NO
8
10
REPLACE R362
YES
YES
U303 PIN12 H.DRIVER OUT
NO
U303 DC.VOLTAGE 0.5V
YES
R362 OK
YES
NO
NO
CHECK Q303 R338 R339 R342 C328 T301
NO
Q303 COLLECTOR WAVE
CHECK D324 C347 C348 R346 R360 ZD303 U303 SVR310
YES
U303 PIN 10 +11V
NO
NO
Q304 OK ?
REPLACE FAILURE PARTS
CHECK Q304
YES
YES
CHECK C339 C342 C344 FBT D317 D322 L302 L303
U303 PIN8 H.OUT
NO
YES
CHECK R322 +12V U302 U303
CHECK R333 R334 R335 SVR306 U303 C324 C325 C326
CHECK Q317 U402 U403 ZD401 U303 R377 R378
CHANGE FAILURE PARTS
10
10
13
10


8
LOST V. SYNC.
NO
9
YES
U301 PIN 27 V. SYNC OUT
NO
V SYNC. INPUT AT P201
NO
CHECK SIGNAL CABLE
10
YES
YES
10
REPLACE FAIRLURE PARTS
CHECK U301
NO
V SYNC. OUTPUT AT PIN 12
CHECK R400 C401 U301
CHANGE FAILURE PARTS
10
YES
10
CHECK C403
NO
V SYNC INPUT TO U301 PIN1
YES
10
CHECK R422 R423 R424 Q403 D405 C402
NO
U303 PIN 18 V OSC.
YES
10
CHECK U401
NO
U303 V. SYNC PIN 16 OUT
YES
CHECK R428 C405 U303
CHANGE FAILURE PARTS
10


9
H. WIDTH CONTROL OK
YES
V. CENTER CONTROL OK?
YES
SPOT KILLER OK
NO
10
NO
YES
U402 PARABOLA AT PIN 1
NO
U402 PARABOLA AT PIN 8
NO
YES
YES
CHECK Q405 Q406 R437 VR402 R441 R442
C351 DC 240V OK
NO
YES
CHECK U402 ZD401 C422 R447
CHECK C425 R450 R451 Q407 U402
CHECK R369 ZD306 D327 Q311
CHANGE FAILURE PARTS
10
CHECK ATC350 R368 D326 C350 +92V -150V
REPLACE FAILURE PARTS
10
CHECK Q312 R378 U403 R377
NO
U403 H SAWTOOTH AT PIN 2
YES
CHECK R454 U403
NO
U301 PWM. OUT AT PIN 1
YES
CHECK Q305 Q306 D318 D319 D522 L301 L303
CHANGE FAILURE PARTS
10


13
10
CHANGE SIGNAL CABLE
V.SYNC ON U303 PIN19
NO
V.SYNC IN U303 PIN27
NO
V.SYNC INPUT P201
NO
YES
YES
YES
V OSC ON U303 PIN18
NO
CHECK C403 U403
CHECK R400 C401 U301
10
YES
REPLACE FAILURE PARTS
CHECK U303
NO
U401 PIN 2 V.SYNC
CHECK R425 U303 C404
10
YES
U401 PIN8 +22V
NO
CHECK U401 C411 C415 C416 +22V
CHANGE FAILURE PARTS
10
YES
CHECK R438 C419
YES
CHECK U401 SVR401 YOKE R433 R434 R435 R436 R439 C414 C418
CHANGE FAILURE PARTS
10
NO
CHANGE C419 R438
10

EXPLODED VIEW OF CAD-256



BILL OF MATERIAL LIST

XAD256C06

PARTS NO	SPECFICATION	LOCATION
05110-0004	POLYFOAM(L)	D-256
05110-0005	POLYFOAM(R)	D-256
05420-0002	PE BAG	D-256
05620-0001	TAPE	CARTON
06630-009s	.28	D-256 INSPECTION CARD
08031-0131	BEZEL	D-256 (HIPS 94HB)
08031-0141	CAB	D-256 (HIPS 94HB)
08031-0170	VR DOOR	D-256
2OS14-0460	M34KQA22XX06(G3) TOSHIBA .28 57K	
46GOO-0003	DEGAUSSING	D256
54WlO-0002	CRT GND WIRE	D-256
56QO6- 1510	POWER CABLE	D-256 (STD)
65311-1501	SG. CABLE	D-256
6720040100	SCREW M 4x10	CAB + BKT(B),SOCKET + BKT(B),SG + BKT(B)
6720130083	SCREW FLAT M 3x8 (BLACK)	SOCKET
6720530061	SCREW M 3x6 WITH WASHER	
6721240140	SCREW TAP 4x14	BKT + BEZEL
6721240200	SCREW TAP 4x20	CAB + BEZEL
6721240250	SCREWTAP4x5	CRT
6721530081	SCREWTAP3x8WITH WASHER	LED + BEZEL
6730032120	FLAT WASHER 3.2x12x1	FOR PWR PCB PWR PCB
6730040080	FLAT WASHER 4x8x0.8	
6730055150	CRT WASHER 5.5x18x1.5	
6733043050	TOOTH WASHER 4D	
7113B-0030	PUSH KNOB	
7113B-0040	VR KNOB	
71405-0470	VRFUNCTIONPLATE	D -256s
73012-0002	PUSH KNOB SPRING	
74134-0010	RUBBER CRT t = 2.5mm	
742440030	SPONGE (18x18x22) 94V-0	
74244-0040	SPONGE20*24*29 94V-0	FORPWRPCBPWRBD
74244-0070	SPONGE 24x24x37 94V-0	
74731-0050	SPACER SUPPORTS TCB-10	
747440040	DOOR FASTENER	
76201-0120	BKT (R)	D256
76201-0130	BKT (L)	D256
76201-0140	BKT (B)	D256
76201-0150	BKT (F)	D256
76201-0200	CRT METAL PAD	FRONTCOVER
79220-0010	WIRE TIE (85mm)	
79220-0020	WIRE TIE	
ACD2560001	MAIN BOARD ASS'Y	D256
llS31-0300	MAIN PC. BOARD	D-256
14A844C-00	TR A844C	Q314,Q315
14A965Y-00	TR 2SA965Y	Q406
14B649A-00	TR B649AC	Q308
14BF422-00	TR B F422	Q311,Q408
14C2235Y-0	TR C2235Y	Q303,Q405
14C3886A-0	TR C3886A	Q304
14C945P-00	TR C945P	Q301,Q302,Q312,Q401,Q402,Q403,Q404,Q407,Q320, Q410,Q411
14D669AC-0	TR D669AC	Q313,Q409,Q306,Q307
14IRF630-0	TR IRF630	Q309,Q310
14TIP127-0	TR TIP127	Q305
15AOO-0011	DIODE IN4148	D402,D403,D404,D405,D407,D390,D301,D302,D303, D304,D305,D306,D307,D308,D309,D310,D311,D312,D313
15AOO-0011	DIODE IN4148	D314,D315,D401,D400,D300,D391,D393,D412,D413, D414,D415,D416
15S2A-8096	DIODE BY329-1200V	D317
15352-1091	DIODE HER103	D318

PARTS NO	SPECIFICATION	LOCATION
15S55-2091	DIODE HER205	D322
15S57-1091	DIODE HER107	D316,D319,D320,D321,D323,D324,D325,D326, D327,D406
15Z33-1201	DIODE ZENER HZ12Al	ZD304,ZD305,ZD306,ZD307
15Z33-1501	DIODE ZENER HZ15-3	ZD401
15Z33-1801	DIODE ZENER HZ18-2	ZD303
15Z33-5091	DIODE ZENER HZ5C2	ZD301
17BRIDGEl-	IC BRIDGE1	U301
17HA17393-	IC HA17393	U403
17LA7837-0	IC LA7837	U4Ol
17LA7850-0	IC LA7850	U303
17LM358N-0	IC LM358N	U302,U402
22115-1061	RES 1/8W 10M + -5%	R307
22225-1001	RES 1/4W lOohm + -5%	R314
22225-1011	RES 1/4W lOOohm + -5%	R377,R427
22225- 1021	RES 1/4W 1K + -5%	R301,R338,R348,R350,R413,R423,R390,R326,R300, R337,R466
R467 22225-	1031 RES 1/4W 10K + -5%	R418,R42O,R426,R447,R451,R452,R453,R456,R444, R445,R315,R353$356,R373,R414,R415,R416,R446, R464,R476, R477
22225-1041	RES 1/4W 100K + -5%	R355,R358
22225-1051	RES 1/4W 1M + -5%	R367
22225- 123 1	RES 1/4W 12K + -5%	R329,R434
22225-1241	RES 1/4W 120K + -5%	R372
22225-1511	RES 1/4W 150ohm + -5%	R360
22225-1521	RES 1/4W 1.5K + -5%	R327,R400
22225-1531	RES 1/4W 15K + -5%	R422,R430
22225-1631	RES 1/4W 16K + -5%	R419
22225-1831	RES 1/4W 18K + -5%	R363,R435
22225-2021	RES 1/4W 2K + -5%	R319,R321,R441,R442,R448,R454,R392,R463
22225-2211	RES 1/4W 2200hm + -5%	R336
22225-2221	RES 1/4W 2.2K + -5%	R3Oti,R328,R366
22225-2231	RES 1/4W 22K + -5%	R33O,R379
222252241	RES 1/4W 22OK + -5%	R369
22225-243 1	RES 1/4W 24K + -5%	R429,R417,R465
22225-3011	RES 1/4W 3000hm + -5%	R359
22225-3021	RES 1/4W 3K + -5%	R394,R395,R470
22225-3031	RES 1/4W 30K + -5%	R432,R433
22225-3301	RES 1/4W 330hm + -5%	R421
22225-3311	RES 1/4W 3300hm + -5%	R343
22225-3321	RES 1/4W 3.3K + -5%	R478,R479
22225-3331	RES 1/4W 33K + -5%	R305,R332,R334
22225-3631	RES 1/4W 36K + -5%	R304
22225-3921	RES 1/4W 3.9K + -5%	R316,R317
22225-3931	RES 1/4W 39K + -5%	R412
222254701	RES l/4W 47ohm + -5%	R322
22225-4711	RES 1/4W 4700hm + -5%	R339,R368
222254721	RES 1/4W 4.7K + -5%	R318,R320,R450,R365,R391,R308,R309,R310,R311, R312,R313
22225-4731	RES 1/4W 47K + -5%	R331,R364,R378,R449,R455,R475
22225-4741	RES 1/4W 470K + -5%	R370,R425
22225-5111	RES 1/4W 5lOohm + -5%	R462
22225-5131	RES 1/4W 51K + -5%	R480
22225-5641	RES 1/4W 56OK + -5%	R371
22225-6831	RES 1/4W 68K + -5%	R354,R357,R431
22225-7521	RES 1/4W 7.5K + -5%	R396,R323
22225-753 1	RES 1/4W 75K + -5%	R428,R#2
22225-8221	RES 1/4W 8.2K + -5%	R333
22245-1091	RES 0.5W lohm + -5%	R362
222451211		R436
22245-1811	RES 0.5W 180ohm + -5%	R352
22245-2231	RES 0.5W 22K + -5%	R347
22245-3311	RES 0.5W 330ohm + -5%	R440

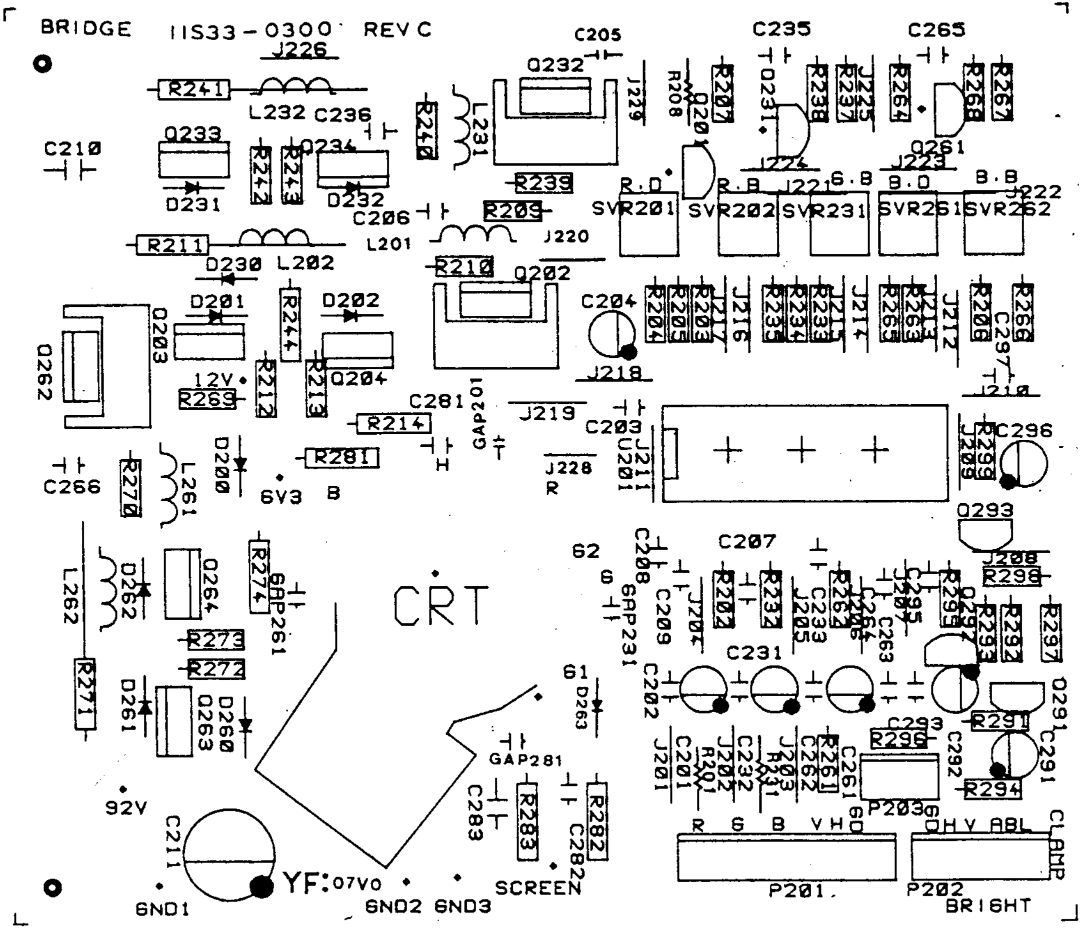
PARTS NO	SPECFICATION	LOCATION
222454701	RES 0.5W 470hm + -5%	R345,R380
22245-4711	RES 0.5W 4700hm + -5%	R424
22245-4731	RES 0.5W 47K + -5%	R346,R376
222454791	RES 0.5W 4.7ohm + -5%	R439
22245-5111	RES 0.5W 5lOohm + -5%	R374,R375
2312110011	RES 1/4W 1K + - 1%	R469
2312112421	RES 1/4W 12.4K + -1%	R34O
2312115021	RES l/4W 15K + -1%	R341
2312120521	RES 1/4W 20.5K + -1%	R411
2312121021	RES 1/4W 21K + -1%	R472
2312124921	RES 1/4W 24.9K + -1%	R406
2312128021	RES 1/4W 28K + -1%	R410
2312130121	RES 1/4W 30.1K + -1%	R405
2312133221	RES 1/4W 33.2K + -1%	R471
2312141221	RES 1/4W 41.2K + -1%	R404
2312154921	RES l/4W 54.9K + -1%	R403
2312156031	RES 1/4W 560K + -1%	R409
2312156211	RES l/4W 5.62K + -1%	R468
2312157621	RES 1/4W 57.6K + -1%	R474
2312159021	RES l/4W 59K + -1%	R407
2312171521	RES 1/4W 71.5K + -1%	R408
2312193121	RES 1/4W93.1K + -1%	R473
23235-6809		R381
23245-1014	RES MOF 1W lOOohm + -5%	R437
23245- 1094	RES MOF 1W lohm + -5%	R438
23245-2214	RES MOF 1W 2200hm + -5%	R303
23245-5084	RES MOF lWO.5ohm + -5%	R344
23255-8205	RES MOF2W 820hm + -5%	R342
23765-1815	RES MOF3W 1800hm + -5%	R349
23785-1099	RES MOF 5W lohm + -5%	R351,R397
25AOl-103B	VR 1OKB Sl (VZO67THl)	SVR300
25AOl-503B	VR 50KB S1(VZ067TH1)	SVR303,SVR304,SVR305,SVR305A
25AOl-504B	VR 500KB Sl (VZ067THl)	SVl2302
25BOl- 102B	VR 1KB S2 (VZO67TLl)	SVR310
25BOl-103B	VR 1OKB S2(VZO67TLl)	SVR311,SVR402
25BOl-203B	VR 20KB S2 (VZO67TLl)	sVR301
25BOl-502B	VR 5KB S2(VZO67TLl)	SVR4Ol,SVR404,SVR306
28107-1001	ELEC 160V 1OU + -20%	c333
28107-4701	ELEC 160V 47U + -20%	C332
28137-1011	ELEC 16V 1OOU + -20%	C304,C408
28137-1021	ELEC 16V 1OOOU + -20%	C311,c407
28137-2201	ELEC 16V 22U + -20%	C425
28137-2211	ELEC 16V 220U + -20%	C302,C315,C318
28137-2221	ELEC 16V 2200U + -20%	c419
28137-4701	ELEC 16V 47U + -20%	C433,C434
28147-1011	ELEC 25V 1OOU + -20%	c417
28147-2211	ELEC 25V 220U + -20%	C421
28157-1021	ELEC 35V 1OOOU + -20%	C415
28157-4701	ELEC 35V 47U + -20%	c431
28167-1001	ELEC 5OV 1OU + -20%	C312.C328.C403.C423
28167-1011	ELEC 50V 1OOU + -20%	C335;C412;C420'
28167-1091	ELEC 50V 1U + -20%	C305,C306,C402,C424
28167-2291	ELEC 50V 2.2U + -20%	C418
28167-3391	ELEC 50V 3.3U + -20%	C348,c409
28167-4711	ELEC 50V 470U + -20%	C347
28167-4791	ELEC 50V 4.7U + -20%	C327
281B7-1001	ELEC 250V 1OU + -20%	c350
281B7-1091	ELEC 250V 1U + -20%	C349
281B7-4791	ELEC 250V 4.7U M	c353
281C7-4791	ELEC 35OV4.7U + -20%	C351
288B7-1001	ELEC 250V 1OU + -20% (105C')	c394
29146-1093	TAN 16V 1U + -10%	C323,C325,C411
32115-122B	PEN 50V 0.0012U + -5%	C396(Ik)
32115-332B	PEN 50V 0.0033U + -5%	C326,C410

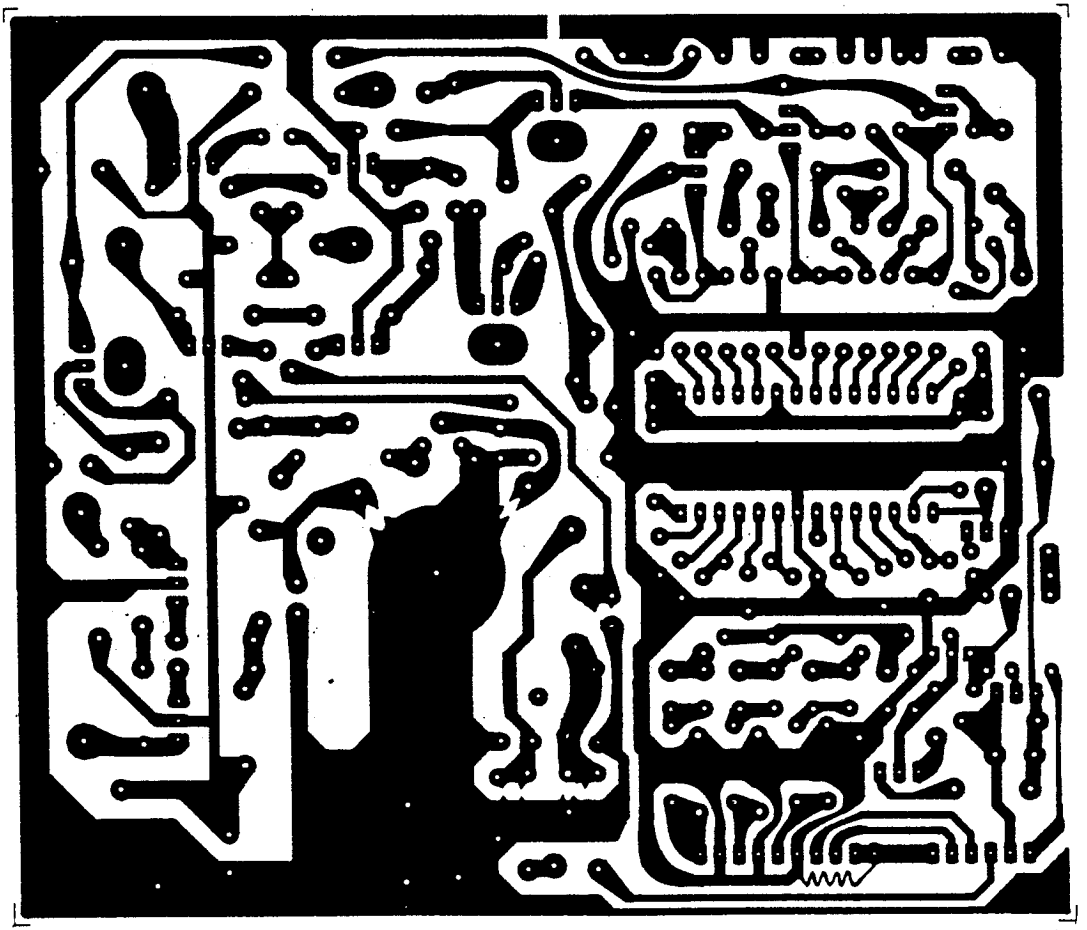
PARTS NO	SPECFICATION	LOCATION
32115-562B	PEN 5OV 0.0056U + -5%	C405,C322
32125-102B	PEN 1OOV O.OOlU + -5%	C401
32125-103B	PEN lOOVO.OlU + -5%	C324,C334,C341,C343
32125-1044	PEN lOOVO.lU + -5%	c414,c404
33175-5624	PP63OVO.OO56U + -5%	C337
33lA5-562A	PP 1.6KV 0.0056U + -5%	c330
35145-1057	MPP 25OV 1U + -5%	C342
35145-225A	MPP 250V 2.2U + -5%	C338
35145-395A	MPP 250V 3.9U + -5%	C344
35 155~684A	MPP 400V 0.68U + -5%	C339
38195-1007	CER 5OV 1OP SL + -5%	C300
38195-1017	CER 5OV 1OlP SL + -5%	C314,C317,C393
38195-5007	CER 5OV 5OP SL +-5%	C307,C308
381A5-1017	C319	
381A5-2717	CER 5OV 271P NPO + -5%	C320
39146-1037	CER 5OV 103P Y5P + -10%	C422,C346
39146-2228	CER 5OV 2200P Y5P + -5%	C395
391464717	CER 5OV 471P Y5P + -10%	C321
39146-8217	CER 5OV 821P Y5P + -10%	c426
394461038	CER 5OOV 103P Y5P + - 10%	C331,C352
39546- 1027	CER 1KV 102P Y5P + -10%	C329,C340
39999-1047	CER 5OV 104P Y5V + 80% -20%	C303,C3O9,C310,C316,C416,C390,C391$392,C432
45MlK-1027	CHOKE 1mH	L304
45MlK-6027	CHOKE 6mH	L301
46LOO-0040	LINEARITY COIL	D -256 L302
46200-0001	INDUCTOR 0.22mH	L303
47BlO-0010	H.BIAS COIL. D-256	T302
47DlO-0030	DRIVETRANS. D-256	T301
47Fl3-0020	FBT D -256	T303
54JB5-0003	JUMPER 10mm	J301,5302,5303,5304,5305,5306,5307,5308,J3~,J310,J311 5312,5313,5314,5315,5316,5317,5318,5319,5320,5335
54JB5-0003	JUMPER 1Omm	J350,J351,J353,R361,J358,J359,J356,J360,5361,5362,J3222 J323,J324,J325,J326,J327,5328,5329,J331,,J333
54JB5-0003	JUMPER 10mm	J334,J336,J337,J338,J339,5340,5341,5342,J343,J344,J363 J345,J346,J347,J348,J349,J364,J365,5366,8
54JB5-0005	JUMPER 15mm	5352
54L15E073L	LEAD WIRE 1007 #22 75mm (ORG) B TO '	
54L15E143L	LEAD WIRE 14CM (ORANGE)	HTOH'
6OCOO-3579	X'TAL 3.58M	x301
62R35-4501	FERRITE BEAD RH035045S-B 3.5*4.5	J321
64B1140001	BASE (2.36D-4P)	P403TO CRT
64B3320001	BASE (XH-2P)	P402 LED BORD
64B3330001	BASE (XH-3P)	P302 TO VR BRIGHT
64B3350001	BASE (XH-5P)	P301 H-SIZE,P-PHASE P401 V-SIZE,V-CENTER
65W2262501	CONN (1.5D-6P) 250mm	FOR-92V,-22V,-92V,-GND,-FB,-B + TO P122
65W3362101	CONN (XH-6P) 210mm	FOR-BRIGHT,-ABL,-CLAMP,-HI,-Vl,-GND TO P202
6720030101	SCREW M 3x10	U4Ol,Q304
6720230060	SCREW M 3x6	Q305,D317,Q309,Q310
6721240140	SCREW TAP 4x14	FBT
6721530061	SCREW TAP 3x6 WITH WASHER	D322 + FBT HEATSINK
674003025 1	NUTM3	FOR FBT
75 120-0040	HEAT SINK (FBT)	FBT
75123-0050	HEAT SINK (65~18.8~40)	u401
75123-0060	HEAT SINK (15~10.6~30)	Q305,Q309,Q310
75123-0100	HEATSINK(15*10.6*40)	D322
75123-0110	HEAT SINK (23x16~40)	D317
BCD2560001	CRT BOARD ASS'Y	D256 1.0000
1 lS33-0300	CRT P.C. BOARD	
14A1538E-0	TR A1538E	Q204,Q234,Q264
14A673C-00	TR A673C	Q291
14C3953E-0	TR C3953E	Q202,Q203,Q232,Q233,Q262,Q263
14C4308-00	TR C4308	Q201,Q231,Q261
14C945P-00	TR C945P	Q292,Q293
15AOO-0011	DIODE IN4148	D201,D202,D231,D232,D261,D262

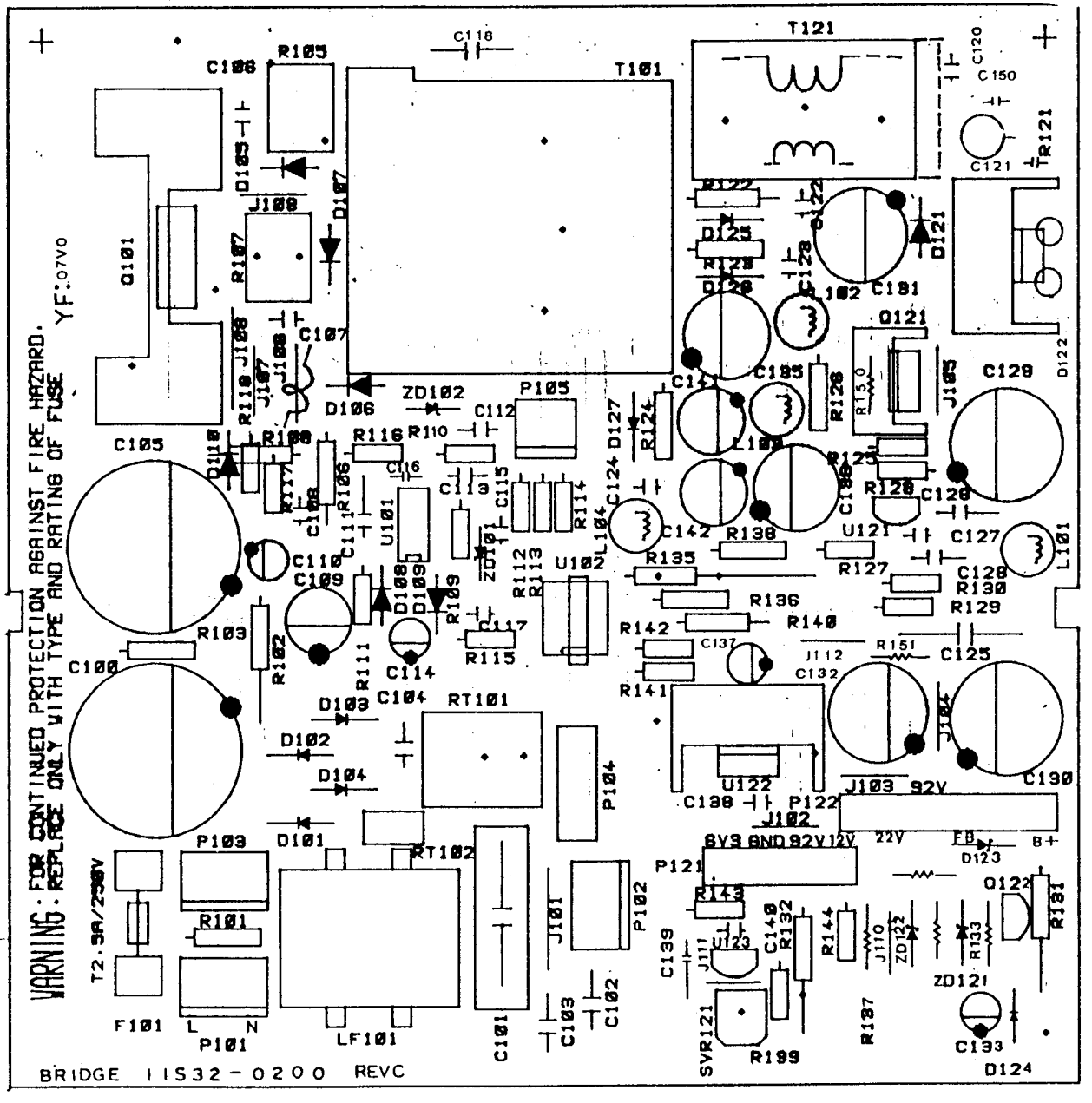
PARTS NO	SPECFICATION	LOCATION
15357-1091	DIODE HER107	D2OO,D230,D260
17LM1203N-	IC LM1203N	u201
22225-1011	RES 1/4W lOOohm + -5%	R235,R295
22225-1021	RES 1/4W 1K + -5%	R298,R299
22225-1031	RES 1/4W 10K + -5%	R202,R232,R262,R293
22225-1111	RES 1/4W 110ohm + -5%	R207,R237,R267
22225-1521	RES 1/4W 1.5K + -5%	R294
22225-2201	RES 1/4W 220hm + -5%	R212,R213,R242,R243,R272,R273
22225-2211	RES l/4W 2200hm + -5%	R203,R233,R263
22225-2221	RES 1/4W 2.2K + -5%	R210,R24O,R270,R291,R297
22225-3321	RES 1/4W 3.3K + -5%	R2%
22225-3911	RES 1/4W 3900hm + -5%	R204,R234,R264
22225-3921	RES 1/4W 3.9K + -5%	R206
222254701	RES 1/4W 470hm + -5%	R208,R209,R238,R239,R268,R269
22225-4731	RES 1/4W 47K + -5%	R292
22225-5101	RES 1/4W 5lohm + -5%	R205,R265
22225-5611	RES 1/4W 56Oohm + -5%	R266
22225-7501	RES 1/4W 750hm + -5%	R201,R231,R261
22245-1011	RES 0.5W lOOohm + -5%	R214,R244,R274
22245-1031	RES 0.5W 10K + -5%	R282
22245- 1041	RES 0.5W 100K + -5%	R283
23785-2029	RES MOF5W2K + -5%	R211,R241,R271
25AOl-101B	VR 100B Sl(VZ067THl)	SVR2Ol,SVR261
25AOl-302B	VR 3KB Sl(VZO67THl)	SVR202,SVR232,SVR262 (TOSHIBA CRT)
28107-1001	ELEC 160V 1OU + -20%	C211
28137-1011	ELEC 16V 100U + -20%	C204,C296
2x37-4701	ELEC 16V 47U + -20%	C201,C231,C261
28167-4791	ELEC 5OV 4.7U + -20%	C291,C292
38195-3307	CER 50V 33P SL + -5%	C205,C235,C265
39446-1038	CER 500V 103P Y5P + - 10%	C210
39646-1027	CER 2KV 102P Y 5P + - 10%	C282
39687C1038	CER 2KV 103P Z5U + -20%	C283
39999- 1047	CER 50V 104P Y5V + 80% -20%	C202,C203,C206,C207,C208,C209,C232,C233,C236, C262,C263&264,C266$281,C293,C295,C297
42SOO-0200	SPARKGAP2OOV	GAP2Ol,GAP231,GAP261
42SOO-1000	SPARK GAP 1KV	GAP281
45AOK-229C	PEAKING 2.2uH	L202,L232,L262
45AOK-689C	PEAKING 6.8uH	L2Ol,L231,L261
54JB5-0003	JUMPER 10mm	J201,J202,J203,J204,J205,J206,J207,J208,J209,J210,J211 J212,J213,J214,J215,J216,J217,J218,J219,J220,J221
54JB5-0003	JUMPER 1Omm	J223,J224,J225,J226,J228,J229
54JB5-0004	JUMPER 12.5mm	R281
54JB5-0005	JUMPER 15mm	5222
54L23B150A	18AWG 150mm au 1015 #22	VIDEO BOARD GND2.
64B1510001	BASE (2.36D-1P)	P204
64B3300001	BASE (XH-1OP)	P201SG CABLE
64B3330001	BASE (XH-3P)	P203 TO VR BOARD CONTRAST P203
64B3360001	BASE (XHdP)	P202TO MAINGND,H,V,ABL
64C30-0010	CRT SOCKET	
65W2242501	CONN (1.5D-4P) 250mm	FOR -GND,-92,-6.3V,-12VT0 P121
6720230060	SCREW M 3x6	Q202,Q232,Q262
68DOO-0001	ROUND PIN	TO R211,R241,R271
75123-0060	HEAT SINK (15~10.6~30)	Q202,Q232,Q262
DCD2560001	POWER BOARD ASS'Y	D256
11332-0200	POWER F!C. BOARD D-256	
14BD139-00	TR BD139	Q121
14K955-000	TR K955	QlOl
15AOO-0011	DIODE IN4148	D108,D109,D124
15326-3091	DIODE Vrrm = 600V, 3A lN5406	D101,D102,D103,D104
15S2A-8096	DIODE BY329-1200V	D122
15351-2091	DIODE HER202	D127
15S52-1091	DIODE HER103	D106,D121
15353-2091	DIODE HER204	D126
15355-2091	DIODE HER205	D125

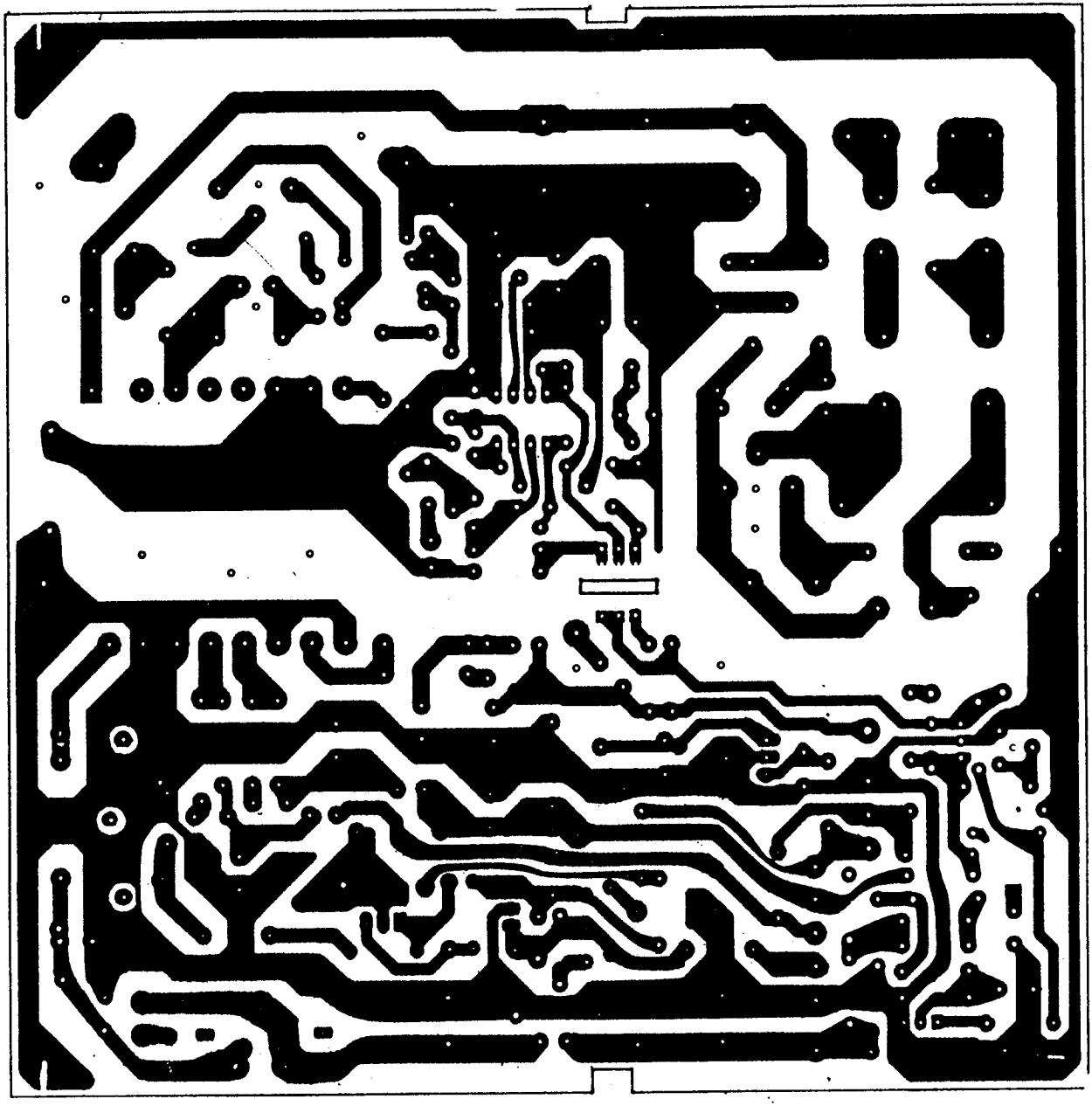
PARTS NO	SPECFICATION	LOCATION
15357-1091	DIODE HER107	D105,D107
15TOO-0010	DIODE 2N5062	Q122
15233-1201	DIODE ZENER HZ12A1	ZD121
15233-1801	DIODE ZENER HZ18-2	ZD101,DllO
15233-5091	DIODE ZENER HZ5C2	ZD102
15253-1011	DIODE ZENER lN4764A 1W	D123
15253-4701	DIODE ZENER lN4756A 1W	ZD122
174N35-000	IC 4N35	u102
177812CT0	IC LM7812CT/MC7812CT	u122
17SG3842M-	IC SG3842M	UlOl
17TL431-00	IC TL431	U121,U123
22225 1021	RES 1/4W 1K + -5%	R116,R133
222251031	RES 1/4W 10K + -5%	Rlll,R114,R118,R130,R143
22225-1041	RES 1/4W 100K + -5%	R112,R113,R115,R137,R144
22225-2021	RES 1/4W 2K + -5%	R127,R139
222252201	RES 1/4W 220hm + -5%	R117
22225-2211	RES l/4W 22Oohm + -5%	R129
22225-2711	RES 1/4W 2700hm + -5%	R141
22225-3021	RES 1/4W 3K + -5%	R125
22225-3931	RES 1/4W 39K + -5%	R109
22225-4701	RES l/4W 470hm + -5%	RllO
22225-5621	RES 1/4W 5.6K + -5%	R128
22225-7501	RES 1/4W 750hm + -5%	R142
22245-1001	RES 0.5W lOohm + -5%	R124
22245-2221	RES 0.5W 2.2K + -5%	R138
22245-2291	RES 0.5W 2.2ohm + -5%	R136
22245-2701	RES 0.5W 270hm + -5%	R123
222454741	RES 0.5W 470K + -5%	RlOl,R103
22245-6801	RES 0.5W 680hm + -5%	R126
23245- 1004	RES MOF 1W lOohm + -5%	R106
23245-1014	RES MOF 1W lOOohm + -5%	R122,R140
3245-3384	RES MOF 1W 0.33ohm + -5%	R108
23255- 1835	RES MOF2W 18K + -5%	R131
23255-2735	RES MOF 2W 27K + -5%	R132
23765-1045	RES MOF3W 100K + -5%	R102
23785-1019	RES MOF 5W lOOohm + -5%	R121
23785-1509	RES MOF5W 15ohm + -5%	R135
24665- 1029	RES S 5W 1K + -5%	R107
24665-1539	RES S 5W 15K + -5%	R105
25B02-501B	VR 500B S2 (VZO68TLl)	SVR121
26B3L-0011	NTCR (OSSPOOSL)	RT102
26FOO-0001	PTCR 27 OHM (270N)	RTlOl
28167-1001	ELEC 50V 1OU + -20%	c110,c114,c137
28167-1011	ELEC 50V 100U + -20%	Cl09
28167-4701	ELEC 50V 47U + -20%	Cl33
283D7-221M	ELEC 400V 220U SNAP IN + -20% 25*4	ClOO,C105
28807-2211	ELEC 160V 220U + -20% (105C)	C129,C130
28807-4701	ELEC 160V 47U + -20% (105C)	C131,C132
28837-4711	ELEC 16V 470U + -20% (105C)	C141,C142
28857-1021	ELEC 35V 1000U + -20% (105C)	C135,C136
32115-6834	PEN 50V 0.068U + -5%	Cl26
32125-102B	PEN 100V 0.00lU + -5%	C117,C127,C140
32125-103B	PEN lOOVO.OlU + -5%	Cl12
32125- 1044	PEN 100V O.lU + -5%	c111,c128,c139
32125-222B	PEN lOOVO.OO22U + -5%	C113,C116
32125-472B	PEN 100V 0.0047u + -5%	Cl24
35145-4747	MPP 25OVO.47U + -5%	Cl25
391463317	CER 50V 331P Y5P + - 10%	Cl15
39446-6817	CER 500V 681P Y5P + -10%	Cl23
39546-1017	CER 1KV 101P Y5P + -10%	Cl22
39546-3328	CER 1KV 332P Y5P + -20%	Cl06
39546-4717	CER 1KV 471P Y5P + -10%	Cl07
39646-3317	CER 2KV 331P Y5P + -10%	Cl21 (C120)
39999-1047	CER 50V 104P Y5V + 80% -20%	C108,C138

PARTS NO	SPECFICATION	LOCATION
39c46-3317	CER 2KV 331P Y5V + -10%	Cl20
42A27-103C	X-CAP 25OVO.OlU + -20%	Cl18
42A27-224B	X-CAP250V0.22U + -20%	Cl01
42D57-4725	Y-CAP 400V 4700P + -20%	C102,C103
45MlK1005	CHOKE 10uH	L101,L102,L103,L104
47ElO-0020	LINE FILTER 20mH	LFlOl
47PlO-0020	SIDE PIN D-256	T121
47SlO-0040	POWERTRANS. D-256	TlOl
49F52-252B	FUSE 250V 2.5A 5ST	FlOl
54JB5-0003	JUMPER 1Omm	J102,J103,J104,J105,J107,J109,J110,J111
54JB5-0004	JUMPER 12.5mm	5106
54JB5-0005	JUMPER 15mm	JlOl,J108
64B1120001	BASE (2.36D-2P) 1Omm	P104TO DEGAUSSING.
64B2240001	BASE(1.5D-4P)	P121 TO CRT 92V,6.3V,12V,GND
64B2260001	BASE (1.5D -6P)	P122TO MAIN B + ,92v,FB,24v,12V ,GND
64B4420001	BASE (VH-2P)	P105 TO FBT
64B4430002	BASE (VH3P) 2P	P101,P102,P103TO SW. POWER,AC SOCKET
6720030101	SCREW M3xlO	QlOl
6720230060	SCREWM3x6	Q121,D122,U122
68AOO-0010	FUSE CLIP (5X20)	FOR FlOl
68DOO-0001	ROUND PIN	FOR R135
75 123-0060	HEAT SINK (15~10.6~30)	Q121
75123-0070	HEAT SINK (23x16~30) SK043	D122,U122
75123-0081	HEAT SINK (50~18.5~45) 26mm	QlOl
80100-2802	SILICON RUBBER (TO-3P3.7D)	QlOl
SSD2560001	VR ASS'Y	D256
llS31-0310	PCB VR BOARD.	D -256
25CO2- 103B	VR 1OKB (VE12CH2 10K)	VR301(H-PHASE),VR402(V_CENTER)
25CO2- 104B	VR 1OOKB (VE12CH2 100K)	VR4Ol(V-SIZE)
25C02-502B	VR 5KB (VE12CH2 5K)	VR302(HSIZE)
65F3352001	FLAT CABLE (XH-5P) 200mm	P3Ol,P401
SSD2560002	VR ASS'Y	D256
25E03-103B	VR 1OKB (VB12L(7*5)N15KC)	VR291 (CONTRAST)
25E03-104B	VR 1OOKB (VB12L(7*5)N15KC)	VR303(BRIGHT)
65F6A42001		P302,P203
76201-0181	VRBKT.	D256
SSD2560003	LED ASS'Y	D256
11331-0330	PCB LED BOARD.	D-256
19A02-0003	LED (CAD-256 PRIVATE)	(R2112N)
65F3322001	FLAT CABLE (XH-2P) 200mm	LED1
SSD2560004	SW. POWER ASS'Y	D256
52S21-0001	PUSH SW.	
65W4432902	CONN (VH3P) 290mm (TUV)	
6720230060	SCREW M 3x6	
76201-0160	SW. BKT.	D256
SSD2560005	AC SOCKET ASS'Y	D256
54C23B1051	GND WIRE (1OOmm 4.3~)	
64P20-0010	ACSOCKET	FROM AC **SOCKET** TO BKT(B)
65W4431001	CONN (VH3P) #18 1617 100mm	
SSD2560006	SWIVEL BASE ASS'Y	D256
08031-0150	SWIVELBOWL.	D-256
08031-0160	SWIVEL BASE.	D-256
67207-0001	SWIVELSCREW	
73012-0001	SPRING SWIVEL	
74130-0010	RUBBER FOOT	
79130-0010	SWIVEL FIXER	


BRIDGE
11S33-0300 REV C
J226
R241
L232
C236
C205
Q232
C235
C265
C210
Q233
R242
R243
Q234
R240
L231
J229
R208
R207
Q201
D231
R238
R237
J225
R264
R268
R267
Q261
J224
J223
D231
D232
R239
R.D
R.B
J221
G.B
B.D
B.B
J222
SVR201
SVR202
SVR231
SVR261
SVR262
C206
R209
R211
L201
L202
J220
D230
R210
Q202
D201
D202
Q203
Q262
R244
C204
R204
R205
R203
J217
J216
R235
R234
R233
J215
J214
R265
R263
J213
J212
R206
R266
C297
12V
R212
R213
Q204
J218
J210
R269
C281
GAP201
J219
C203
R214
C296
R299
J209
U201
J211
C266
R270
L261
D200
R281
6V3
B
J228
R
Q293
C207
C208
62
J208
R298
L262
D262
Q264
R274
GAP261
CRT
G
GAP231
C209
R202
R232
J204
J205
C233
R262
J206
C264
C263
J207
C295
R295
D292
R293
R292
R297
R273
R272
C231
R271
D261
Q263
D260
61
D263
C202
D291
R291
C293
R296
C292
C291
J201
C201
R201
J202
C232
R231
J203
C262
R261
C261
GAP281
R294
P203
92V
C211
C283
R283
R282
C282
R G B V H GD
GD H V ABL
CLAMP
YF: 07V0
GND1
GND2
GND3
SCREEN
P201
P202
BRIGHT



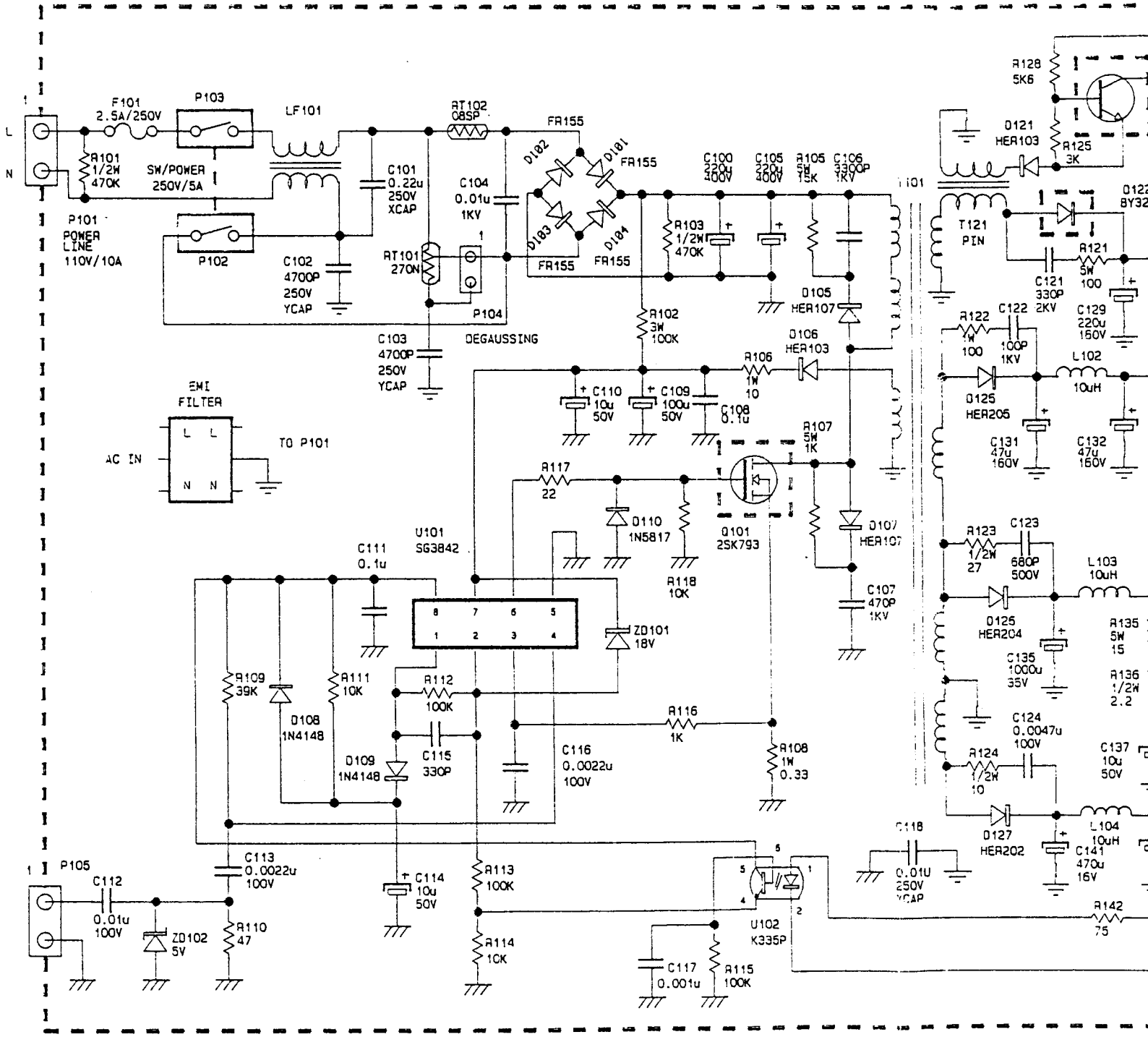

WARNING: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD.
REPLACE ONLY WITH TYPE AND RATING OF FUSE
YF:07V0
T101
T121
Q101
Q121
U101
U102
U121
U122
RT101
RT102
LF101
P101
P102
P103
P104
P105
P121
P122
J102
J103 92V
J108
F101
T2.5A/250V
SVR121
ZD101
ZD102
ZD121
L101
L104
BRIDGE 11S32-0200 REVC



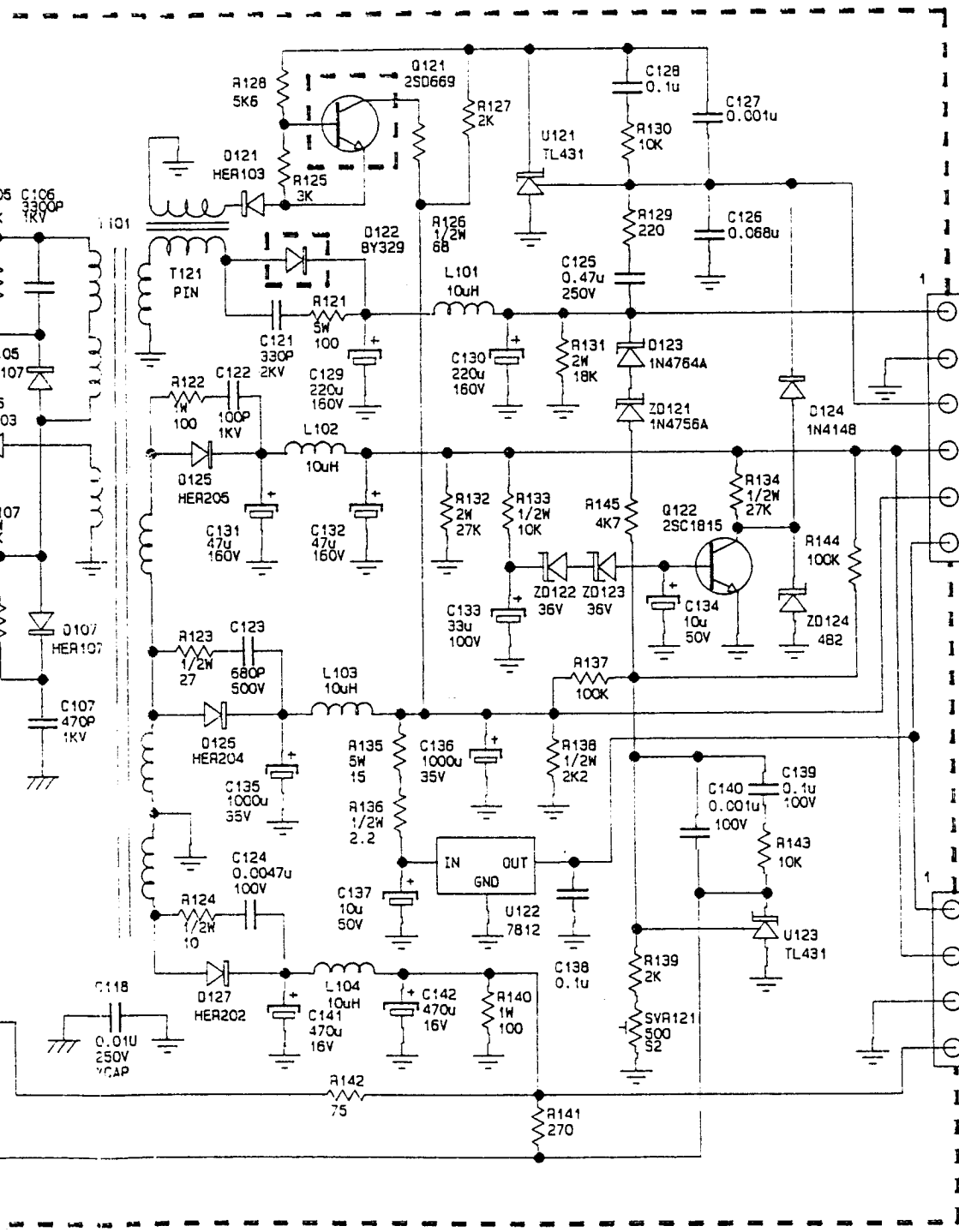
VIDEO TIMING CHART

REVISION : 0

ITEM	1	2	3	4	5	6	7	8	9	10	11	12	13
TITLE	IBM	IBM	IBM	VESA	IBM8514	VESA	VESA	VESA	VESA	VESA	VESA	VESA	
TYPE :	VGA	VGA	VGA	SUPER VGA	VGA	VGA	SUPER VGA	SUPER VGA					
RESOLUTION	640*350	640*400	640*480	800*600	1024*768	640*350	640*400	640*480	800*600	800*600	1024*768	1024*768	1280*1024
fv / Hz	49.18Hz	70Hz	60Hz	56Hz	87Hz	84Hz	84Hz	72Hz	60Hz	72Hz	60Hz	70Hz	60Hz
Line Rate(KHz)	31.5	31.5	31.5	35.156	35.5	37.860	37.736	37.860	37.879	48.077	48.363	56.476	64
H - Period(μS)	31.78	31.78	31.78	28.444	28.10	26.413	26.5	26.413	26.400	20.800	20.677	17.707	15.625
Blanking(μS)	6.36	6.36	6.36	6.222	5.3	6.095	6.5	6.095	6.400	4.800	4.9230	4.053	3.75
Sync Width(μS)	3.81	3.81	3.81	2.000	3.91	1.270	1.25	1.270	3.200	2.400	2.092	1.813	1
Back Porch(μS)	1.91	1.91	1.91	3.556	1.15	4.063	4.5	4.063	2.200	1.280	2.462	1.920	2
Active(μS)	25.42	25.42	25.42	22.222	22.80	20.317	20.000	20.317	20.000	16.000	15.754	13.653	11.875
Front Porch(μS)	0.64	0.64	0.64	0.667	0.24	0.762	0.75	0.762	1.000	1.120	0.369	0.320	0.75
Sync Polarity	+	-	-	-	+	+	-	-	+	+	-	-	+
Frame Rate(Hz)	70	70	60	56.250	87	84.135	84.044	72.809	60.3165	72.187	60.000	70.069	60
V - Period(mS)	14.27	14.27	16.68	17.778	11.50	11.886	11.899	13.735	16.579	13.853	16.667	14.272	16.67
Blanking(mS)	3.15	1.56	1.43	0.771	0.7	2.641	1.299	1.057	0.739	1.373	0.786	0.673	0.68
Sync Width(mS)	0.06	0.06	0.06	0.057	0.11	0.079	0.08	0.079	0.106	0.125	0.124	0.106	0.08
Back Porch(mS)	1.91	1.11	1.05	0.626	0.56	1.638	0.981	0.740	0.607	0.478	0.600	0.513	0.58
Active(mS)	11.12	12.71	15.25	17.067	10.80	9.244	10.600	12.678	15.840	12.840	15.880	13.599	16
Front Porch(mS)	1.18	0.38	0.32	0.028	0.02	0.924	0.239	0.238	0.026	0.770	0.062	0.053	0.02
Sync Polarity	-	+	-	-	+	-	+	-	+	+	-	-	+
Dot Rate(MHz)	25.2	25.2	25.2	36.000	44.9	31.5	36.000	31.5	40.000	50.000	65.000	75.000	110.000
Dots/Char	8	-	-	-	-	8	-	8	-	-	8	8	-
Char Time(nS)	-	-	-	-	-	253.968	250	253.968	-	-	123.080	106.667	-
Color Support	Analog	Analog	Analog	Analog	Analog	Analog	Analog	Analog	Analog	Analog	Analog	Analog	Analog
Video Connect	HD15P	HD15P	HD15P	HD15P	HD15P	HD15P	HD15P	HD15P	HD15P	HD15P	HD15P	HD15P	HD15P


L
N
P101
POWER
LINE
110V/10A
F101
2.5A/250V
P103
SW/POWER
250V/5A
P102
R101
1/2W
470K
LF101
C101
0.22u
250V
XCAP
C102
4700P
250V
YCAP
RT102
08SP
RT101
270N
P104
DEGAUSSING
C103
4700P
250V
YCAP
C104
0.01u
1KV
FR155
D181
D182
D183
D184
C100
220u
400V
C105
220u
400V
R105
5W
15K
C106
3300P
1KV
R103
1/2W
470K
R102
3W
100K
D105
HER107
D106
HER103
R106
1W
10
C110
10u
50V
C109
100u
50V
C108
0.1u
EMI
FILTER
AC IN
TO P101
L L
N N
R107
5W
1K
R117
22
Q101
2SK793
D110
1N5817
R118
10K
D107
HER107
C107
470P
1KV
U101
SG3842
C111
0.1u
8 7 6 5
1 2 3 4
ZD101
18V
R109
39K
D108
1N4148
R111
10K
R112
100K
D109
1N4148
C115
330P
R116
1K
C116
0.0022u
100V
R108
1W
0.33
P105
C112
0.01u
100V
ZD102
5V
R110
47
C113
0.0022u
100V
C114
10u
50V
R113
100K
R114
10K
C117
0.001u
R115
100K
U102
K335P
C118
0.01U
250V
YCAP
R142
75
R128
5K6
D121
HER103
R125
3K
T101
T121
PIN
D122
BY32
R121
5W
100
C121
330P
C129
220u
150V
R122
1W
100
C122
100P
1KV
D125
HER205
L102
10uH
C131
47u
160V
C132
47u
160V
R123
1/2W
27
C123
680P
500V
D125
HER204
L103
10uH
R135
5W
15
C135
1000u
35V
R136
1/2W
2.2
C124
0.0047u
100V
R124
1/2W
10
C137
10u
50V
D127
HER202
L104
10uH
C141
470u
16V

REVISIONS				
PCO/ECN NO.	REV.	DESCRIPTION	DATE	DRAWN
0302562003-9	2		05-06-'92	JUDY HSIEH



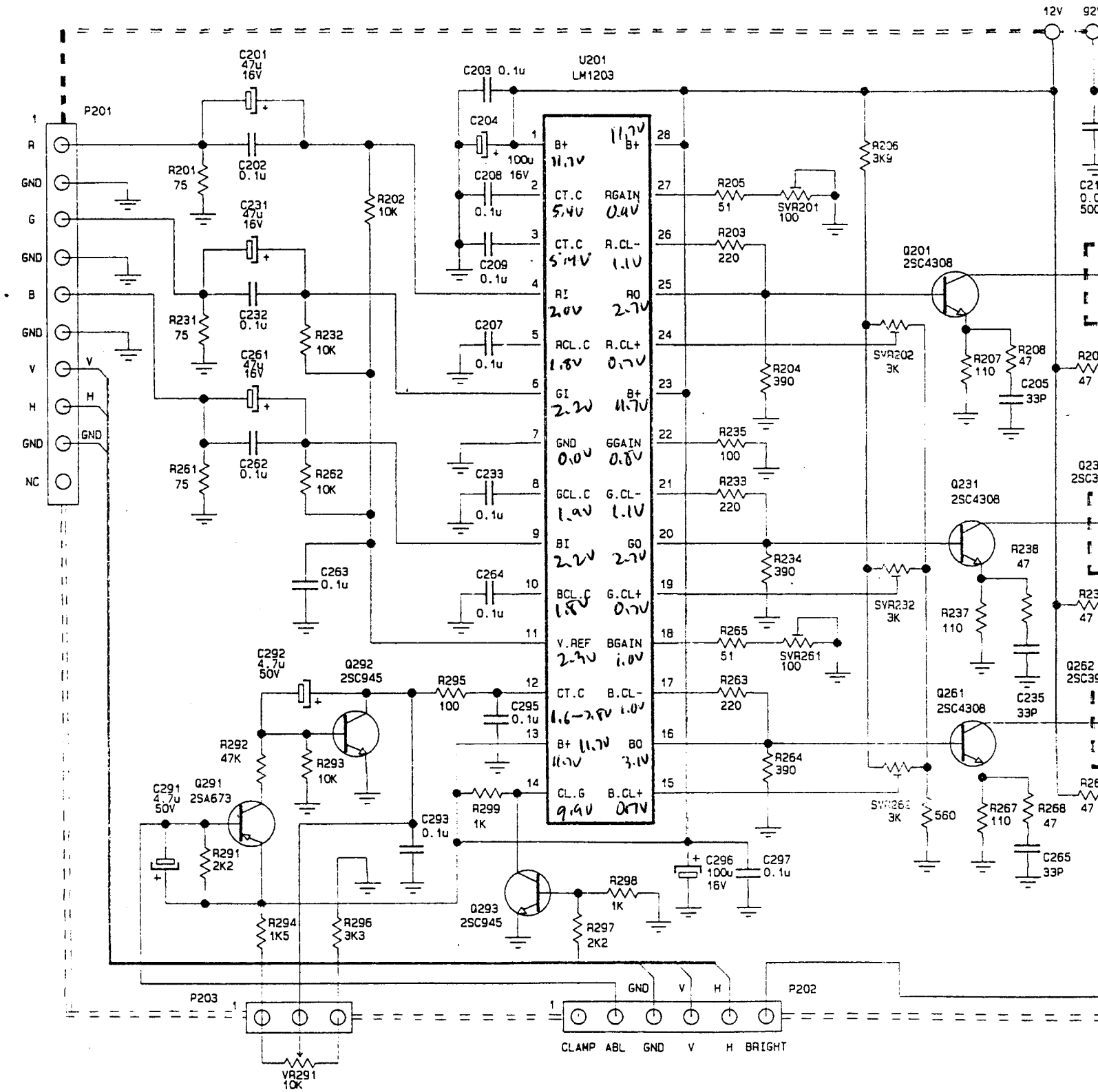
APPROVAL		DATE
DRAWN	JUDY HSIEH	05-06-'92
CHECKED	J. H. Lin	5-8-92
ISSUED		5/8/92
DIRECTOR		

BRIDGE INFORMATION CORPORATION, LTD

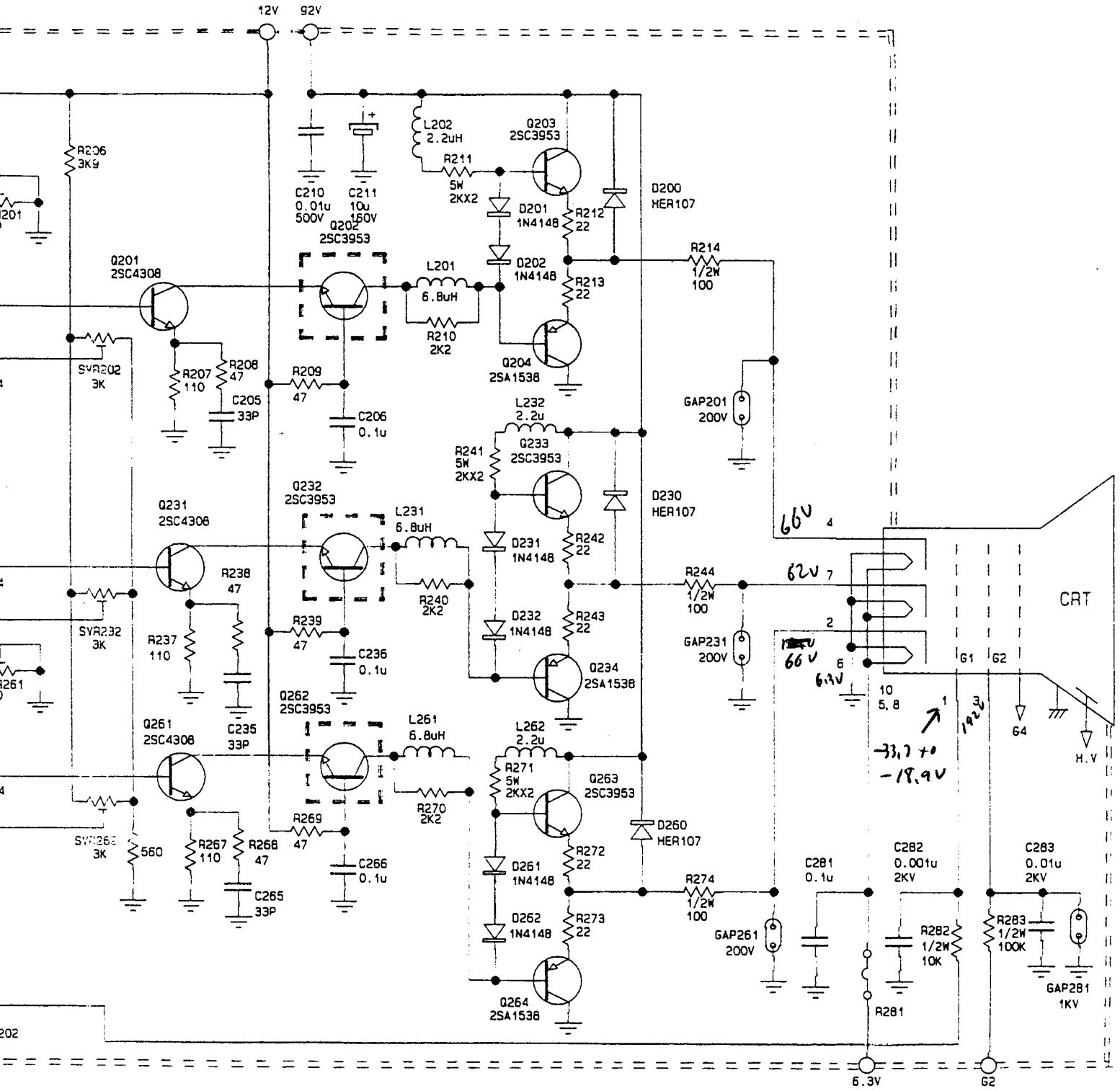
256 P/S BD. SCHEMATIC

SIZE	FSCM NO.	DWG. NO.	REV.
A3			2
PCAD FILE	256PS.SCH	SHEET	1 OF 3

Voltages on u201, etc
- with Colour Bars
- Brightness / Contrast @ MAX



REVISIONS				
PCO/ECN NO.	REV.	DESCRIPTION	DATE	DRAWN
0302562003-9	2		05-06-'92	JUDY HSIEH



APPROVAL	DATE
DRAWN JUDY HSIEH	05-06-'92
CHECKED J.H. Lin	05-08-92
ISSUED C.H.CHIANG	05/08/92
DIRECTOR H.J. Chang	5-8-92

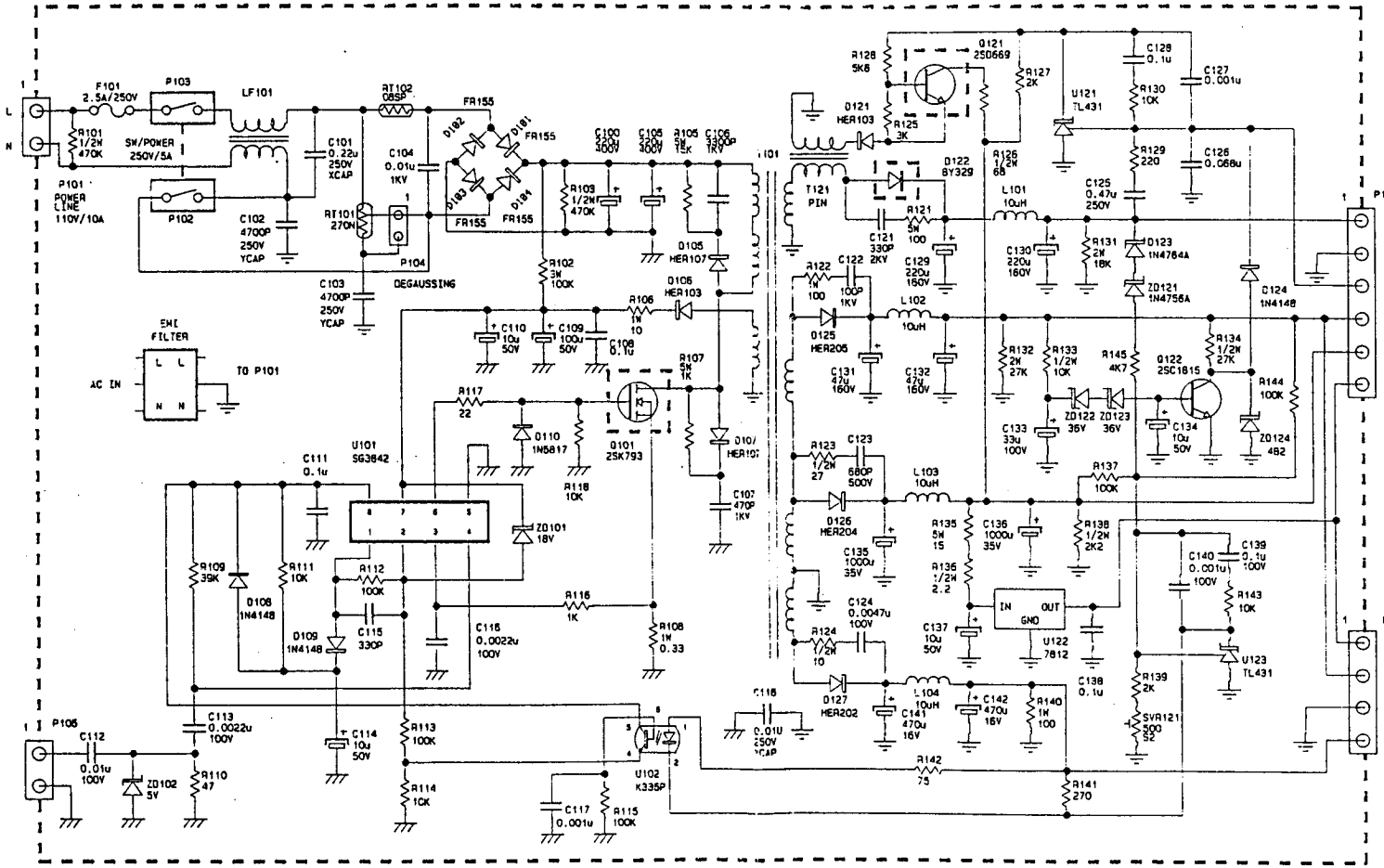
BRIDGE INFORMATION CORPORATION, LTD

256 CRT BD SCHEMTAIC

SIZE	FSCM NO.	DWG. NO.	REV
A3			2

PCAD FILE 256CRT.SCH SHEET 2 OF 3

REVISIONS				
PCO/ECN NO.	REV.	DESCRIPTION	DATE	DRAWN
0302562003-9	2		05-06-'92	JUDY HSIEH

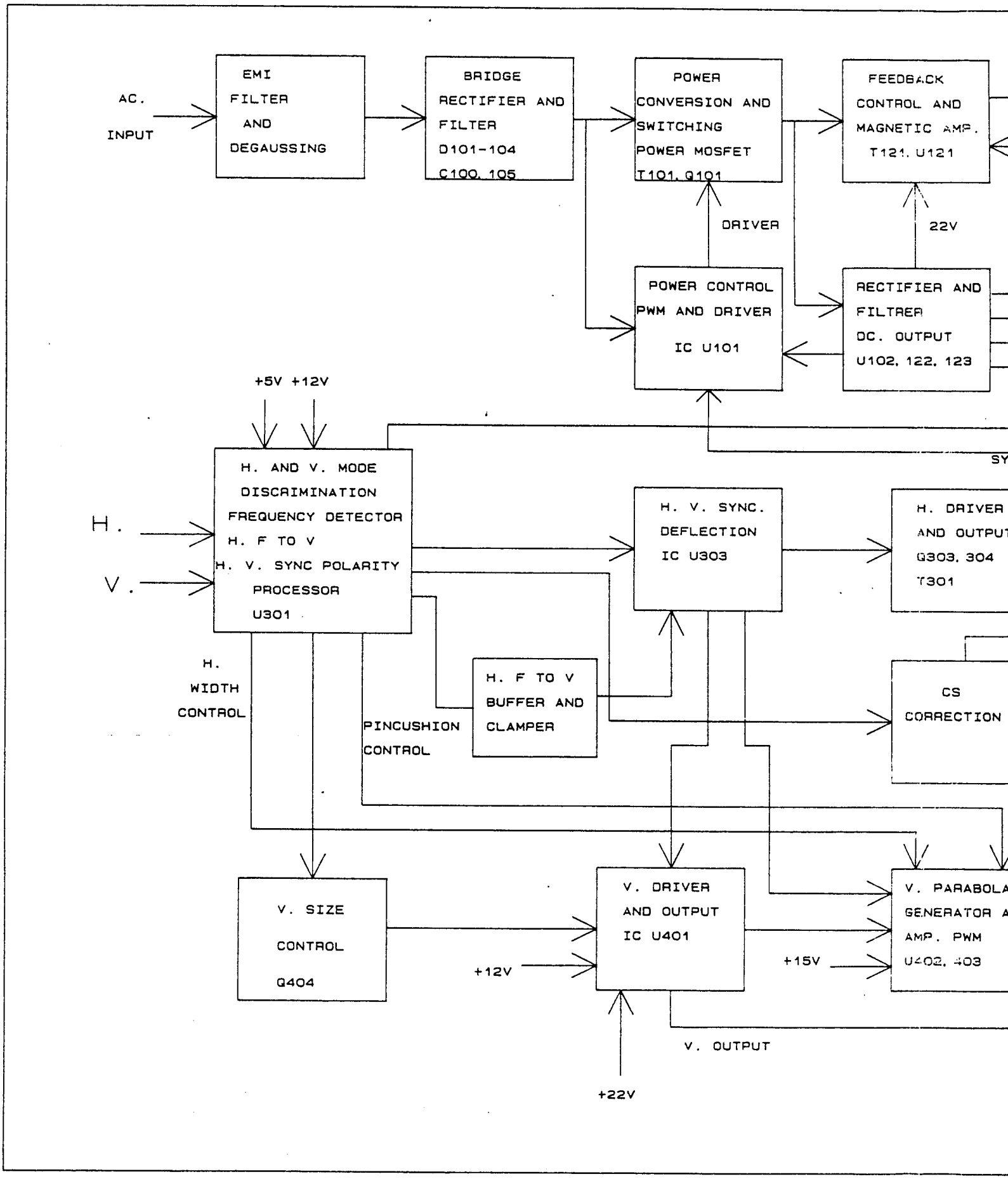


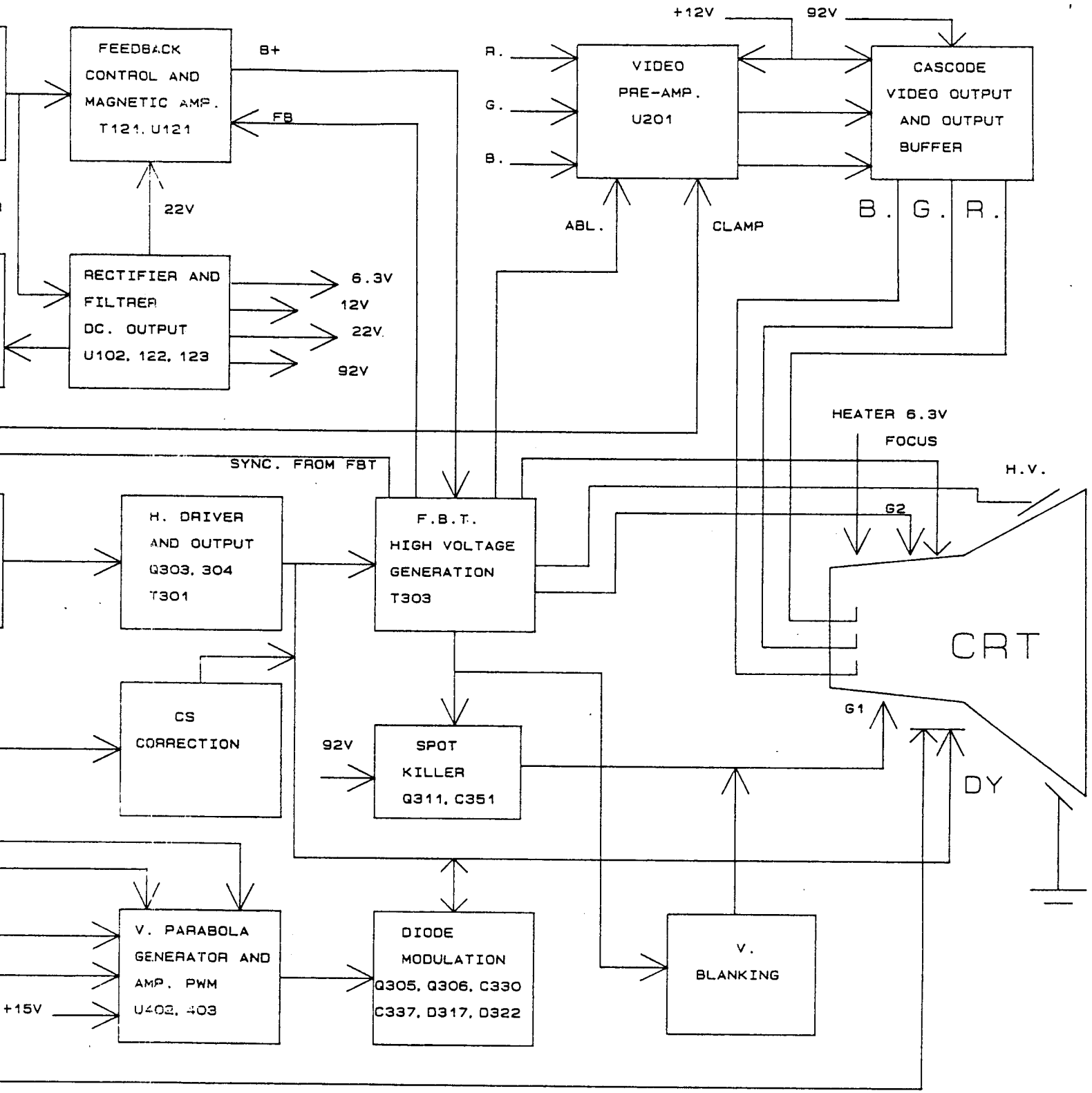
APPROVAL		DATE
DRAWN	JUDY HSIEH	05-06-'92
CHECKED	J. H. L.	[illegible]
ISSUED	[illegible]	
DIRECTOR	[illegible]	

BRIDGE INFORMATION CORPORATION, LTD

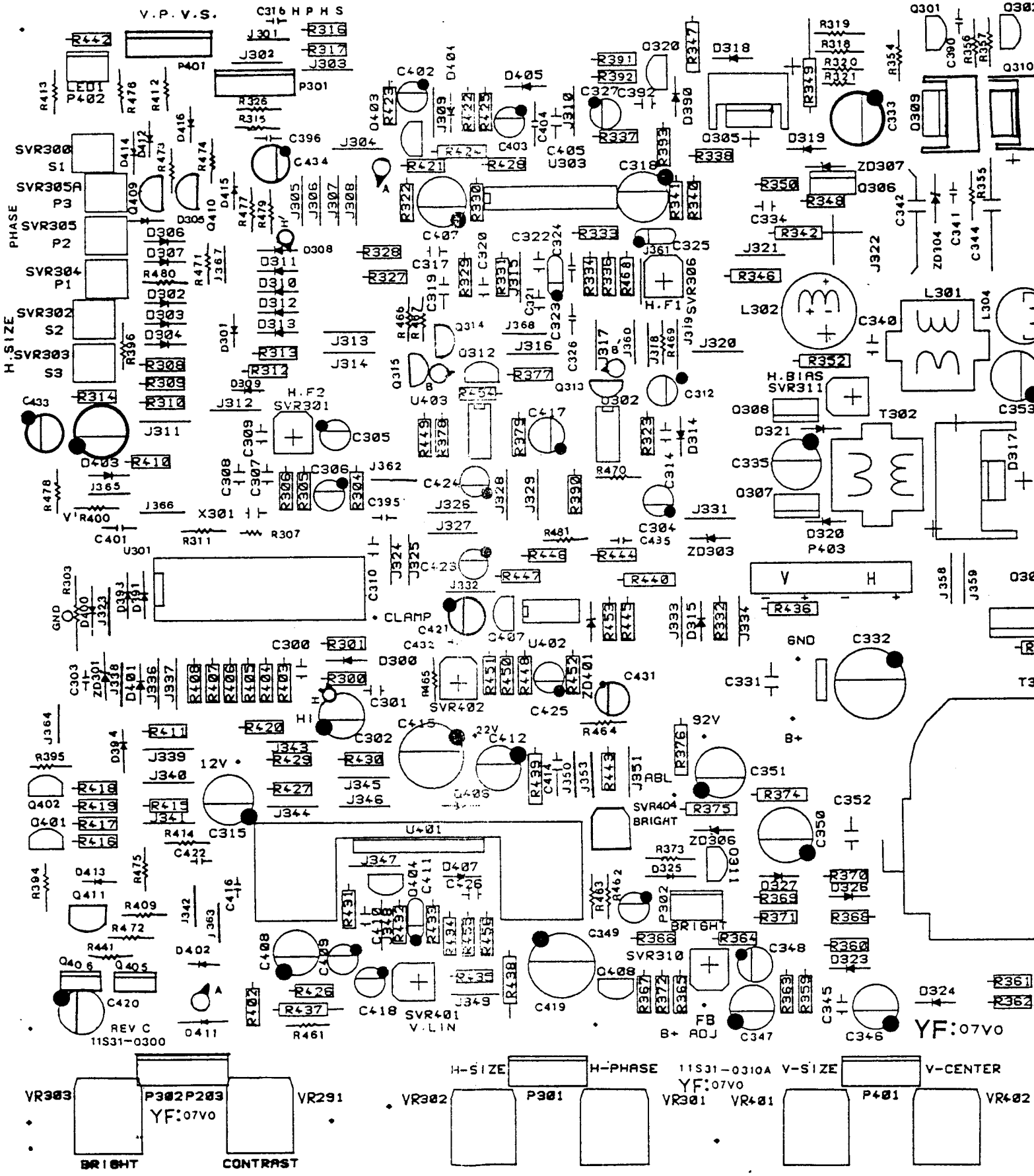
256 P/S BD. SCHEMATIC

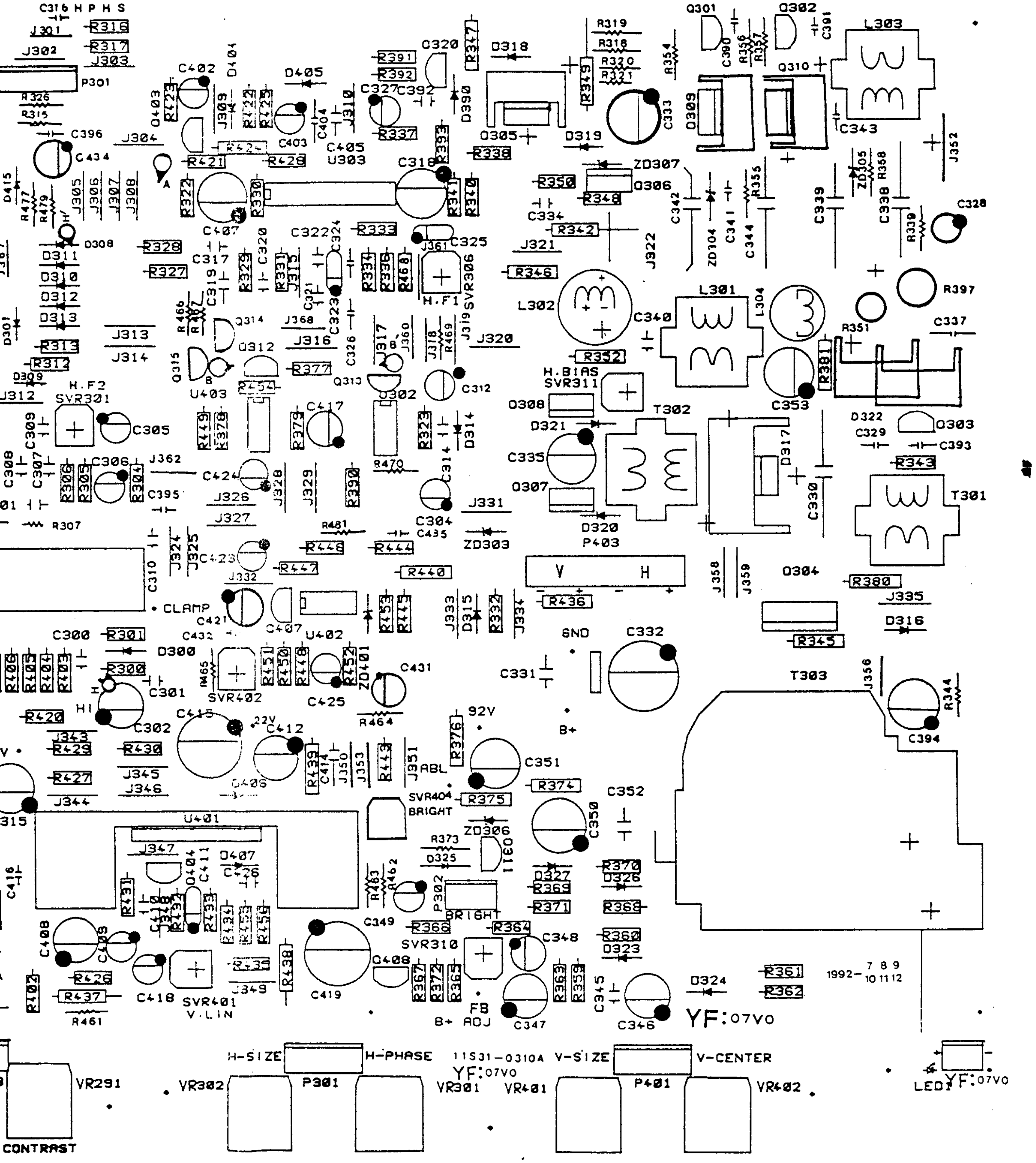
SIZE	FSCM NO.	DWG. NO.	REV
A3			2
PCAD FILE	256PS.SCH	SHEET	1 OF 3


AC.
INPUT
EMI
FILTER
AND
DEGAUSSING
BRIDGE
RECTIFIER AND
FILTER
D101-104
C100, 105
POWER
CONVERSION AND
SWITCHING
POWER MOSFET
T101, Q101
FEEDBACK
CONTROL AND
MAGNETIC AMP.
T121, U121
DRIVER
22V
POWER CONTROL
PWM AND DRIVER
IC U101
RECTIFIER AND
FILTRER
DC. OUTPUT
U102, 122, 123
+5V +12V
H. AND V. MODE
DISCRIMINATION
FREQUENCY DETECTOR
H. F TO V
H. V. SYNC POLARITY
PROCESSOR
U301
H.
V.
H. V. SYNC.
DEFLECTION
IC U303
H. DRIVER
AND OUTPUT
Q303, 304
T301
H.
WIDTH
CONTROL
PINCUSHION
CONTROL
H. F TO V
BUFFER AND
CLAMPER
CS
CORRECTION
V. SIZE
CONTROL
Q404
V. DRIVER
AND OUTPUT
IC U401
+12V
+15V
V. PARABOLA
GENERATOR A
AMP. PWM
U402, 403
V. OUTPUT
+22V

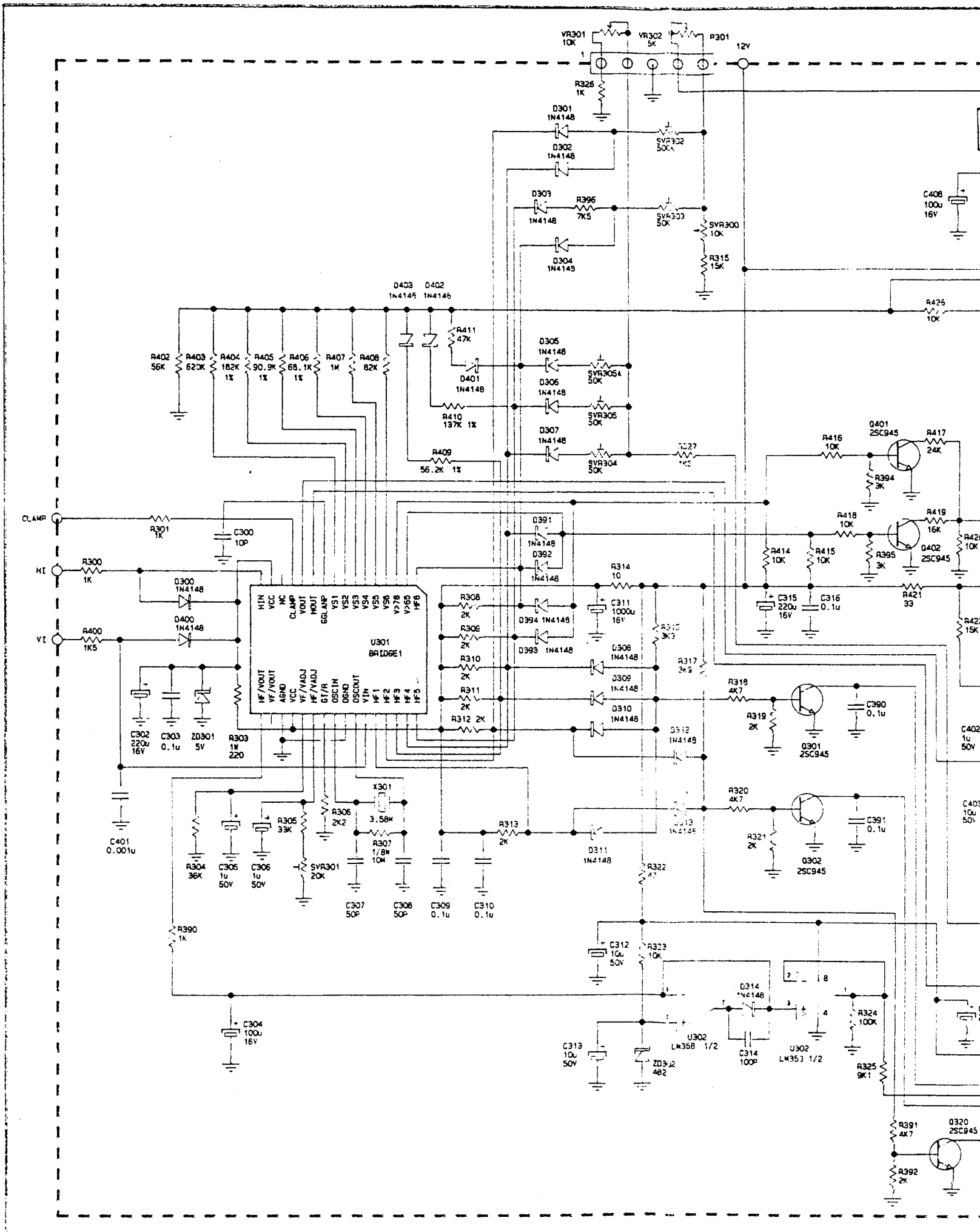


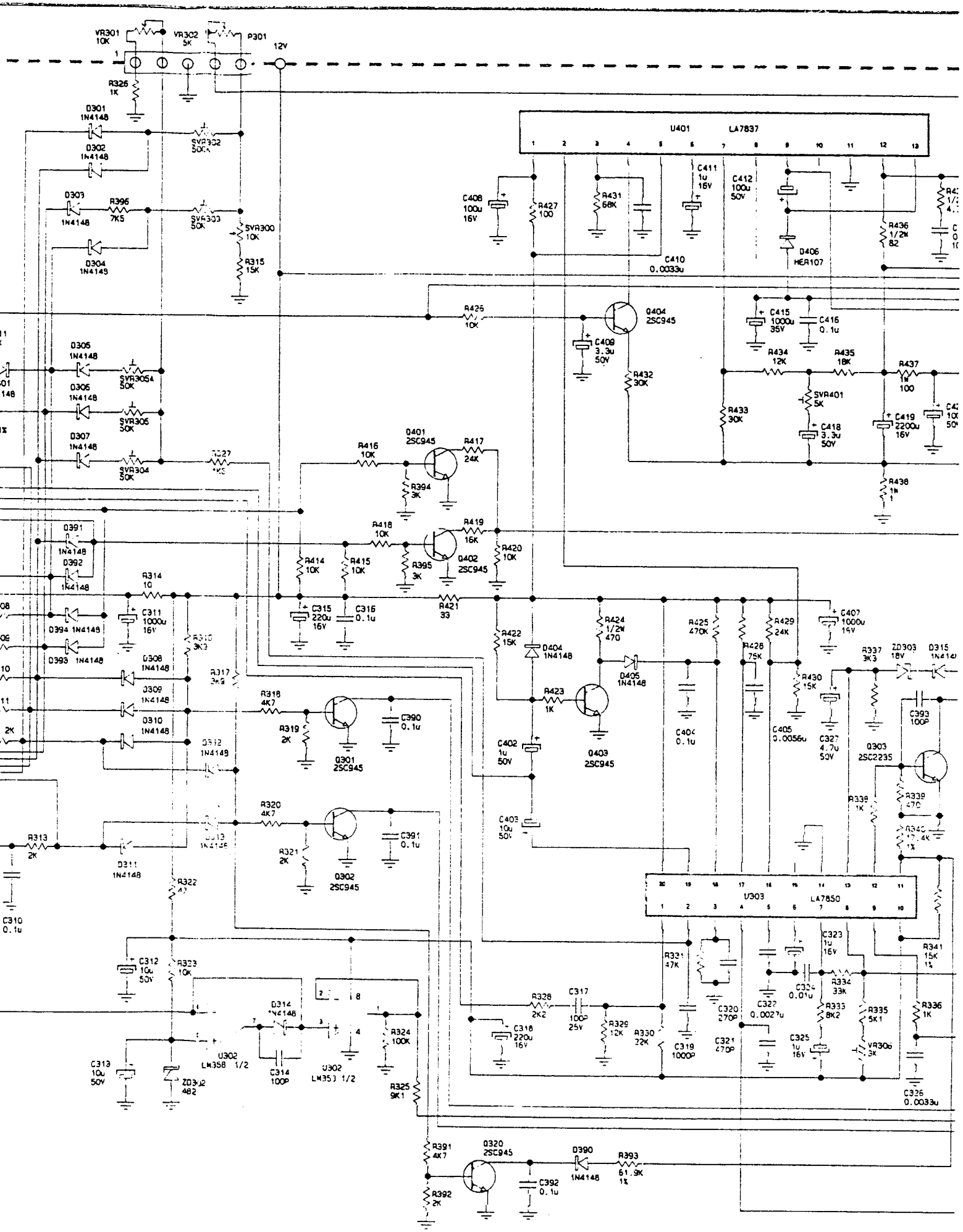
CAD-256 BLOCK DIAGRAM		
Size B	Document Number	
Date: October 13, 1992	Sheet 1	of

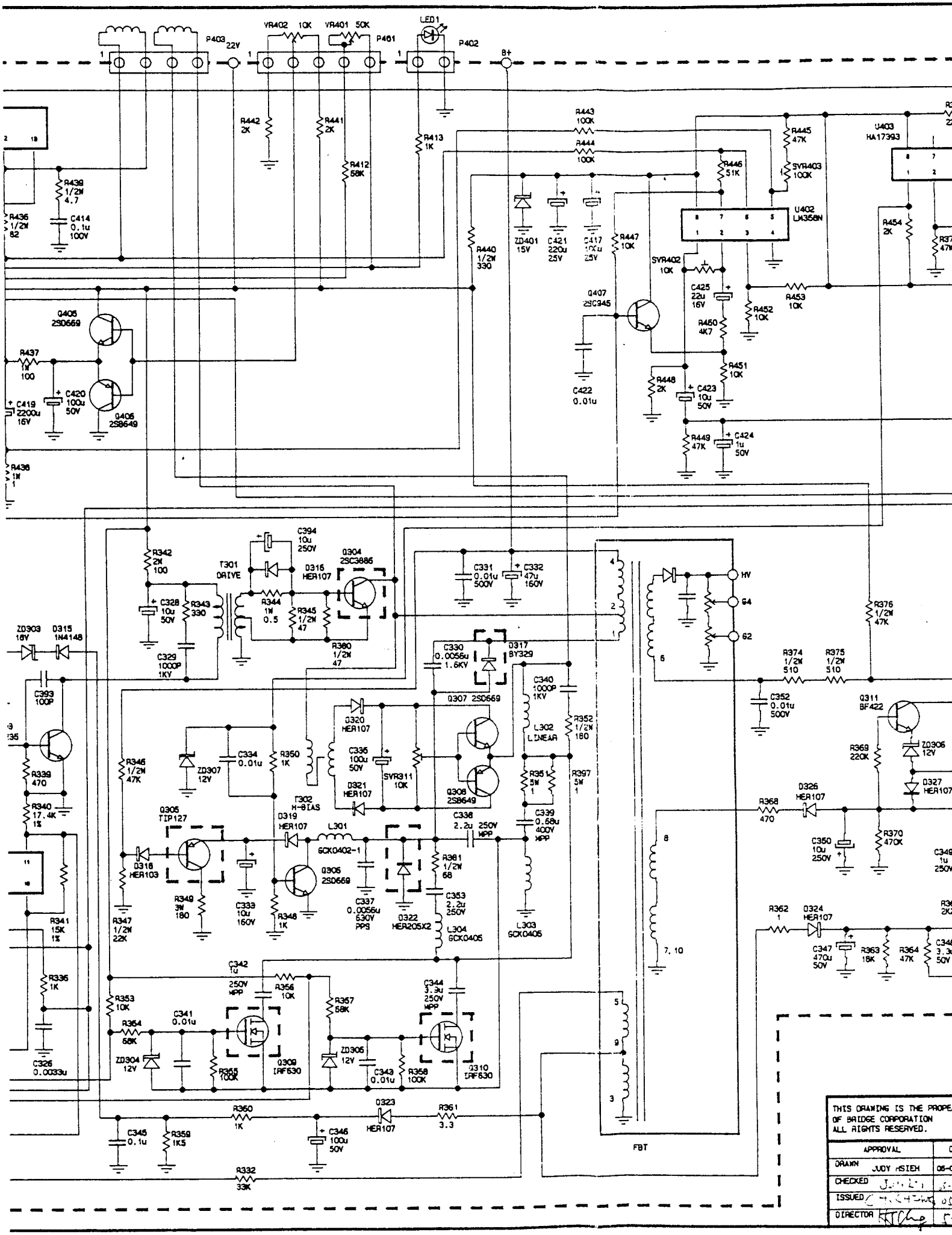

V.P.V.S.
H.SIZE
PHASE
SVR300 S1
SVR305A P3
SVR305 P2
SVR304 P1
SVR302 S2
SVR303 S3
H.F2 SVR301
H.F1 SVR306
H.BIAS SVR311
SVR402
SVR404 BRIGHT
SVR310
SVR401 V.LIN
CLAMP
BRIGHT
FB B+ ADJ
REV C 11S31-0300
11S31-0310A
YF:07V0
H-SIZE
H-PHASE
V-SIZE
V-CENTER
VR303
VR291
VR302
VR301
VR401
VR402
P302 P203
P301
P401
P403
T302
L301
L302
U301
U303
U401
U402
U403
X301
92V
12V
22V
B+
GND
ABL
BRIGHT
CONTRAST



H.F1
H.F2
H.BIAS
CLAMP
BRIGHT
ABL
SND
92V
22V
B+
FB
B+ ADJ
V.LIN
H-SIZE
H-PHASE
V-SIZE
V-CENTER
CONTRAST
LED1
VR291
VR302
P301
VR301
VR401
P401
VR402
11S31-0310A
YF:07VO
1992- 7 8 9 10 11 12


VR301 10K
VR302 5K
P301
12V
R326 1K
D301 1N4148
D302 1N4148
SVR302 50K
D303 1N4148
R396 7K5
SVR303 50K
SVR300 10K
R315 15K
D304 1N4148
C408 100u 16V
D403 1N4148
D402 1N4148
R425 10K
R402 56K
R403 620K
R404 182K 1%
R405 90.9K 1%
R406 68.1K 1%
R407 1M
R408 82K
R411 47K
D401 1N4148
R410 137K 1%
R409 56.2K 1%
D305 1N4148
SVR305A 50K
D306 1N4148
SVR305 50K
D307 1N4148
SVR304 50K
R427 4K5
Q401 2SC945
R416 10K
R417 24K
R394 3K
R418 10K
R419 16K
Q402 2SC945
R414 10K
R415 10K
R395 3K
R426 10K
CLAMP
R301 1K
C300 10P
HI
R300 1K
D300 1N4148
VI
R400 1K5
D400 1N4148
U301 BRIDGE1
HIN VCC NC CLAMP VOUT HOUT GGLAMP VS1 VS2 VS3 VS4 VS5 VS6 V>7/8 V>6.5 HF6
HF/VOUT VF/VOUT AGND VCC VF/VADJ HF/VADJ GT/R OSCIN DGND OSCOUT VIN HF1 HF2 HF3 HF4 HF5
D391 1N4148
D392 1N4148
R314 10
C311 1000u 16V
R308 2K
R309 2K
R310 2K
R311 2K
R312 2K
D394 1N4148
D393 1N4148
R316 3K9
D308 1N4148
D309 1N4148
D310 1N4148
D312 1N4148
R317 2K9
C315 220u 16V
C316 0.1u
R421 33
R422 15K
C302 220u 16V
C303 0.1u
ZD301 5V
R303 1K 220
C401 0.001u
X301 3.58M
R306 2K2
R305 33K
R307 1/8W 10M
R313 2K
D311 1N4148
R318 4K7
R319 2K
C390 0.1u
Q301 2SC945
C402 1u 50V
R320 4K7
R321 2K
C391 0.1u
Q302 2SC945
C403 10u 50V
R304 36K
C305 1u 50V
C306 1u 50V
SVR301 20K
C307 50P
C308 50P
C309 0.1u
C310 0.1u
R322 47
R390 1K
C312 10u 50V
R323 10K
D314 1N4148
R324 100K
C313 10u 50V
ZD3V2 482
U302 LM358 1/2
C314 100P
U302 LM358 1/2
R325 9K1
C304 100u 16V
R391 4K7
Q320 2SC945
R392 2K


VR301 10K
VR302 5K
P301
12V
R326 1K
D301 1N4148
D302 1N4148
SVR302 50K
D303 1N4148
R396 7K5
SVR303 50K
SVR300 10K
R315 15K
D304 1N4148
U401 LA7837
C408 100u 16V
R427 100
R431 68K
C411 1u 16V
C412 100u 50V
C410 0.0033u
D406 HER107
R436 1/2W 82
R425 10K
Q404 2SC945
C409 3.3u 50V
R432 30K
C415 1000u 35V
C416 0.1u
R434 12K
R435 18K
R437 1W 100
R433 30K
SVR401 5K
C418 3.3u 50V
C419 2200u 16V
R438 1W 1
D305 1N4148
SVR3054 50K
D306 1N4148
SVR305 50K
D307 1N4148
SVR304 50K
R416 10K
Q401 2SC945
R417 24K
R394 3K
R418 10K
R419 16K
Q402 2SC945
R420 10K
D391 1N4148
D392 1N4148
R414 10K
R415 10K
R395 3K
R314 10
C315 220u 16V
C316 0.1u
R421 33
D394 1N4148
D393 1N4148
C311 1000u 16V
R310 3K3
R422 15K
D404 1N4148
R424 1/2W 470
D405 1N4148
R425 470K
R428 75K
R429 24K
C407 1000u 16V
R337 3K3
ZD303 18V
D315 1N4148
D308 1N4148
D309 1N4148
D310 1N4148
R317 3K3
R318 4K7
R319 2K
Q301 2SC945
C390 0.1u
R423 1K
Q403 2SC945
C402 1u 50V
C404 0.1u
R430 15K
C405 0.0056u
C327 4.7u 50V
C393 100P
Q303 2SC2235
R338 1K
R339 470
R340 17.4K 1%
C403 10u 50V
R320 4K7
R321 2K
Q302 2SC945
C391 0.1u
R313 2K
D311 1N4148
R322 47
C310 0.1u
U303 LA7850
C312 10u 50V
R323 10K
R328 2K2
C317 100P 25V
C318 220u 16V
R329 12K
R330 22K
R331 47K
C319 1000P
C320 270P
C321 470P
C322 0.0027u
C323 1u 16V
C324 0.01u
R334 33K
R333 8K2
R335 5K1
C325 1u 16V
VR306 3K
R341 15K 1%
R336 1K
C326 0.0033u
D314 1N4148
U302 LM358 1/2
C313 10u 50V
ZD302 4V2 482
C314 100P
U302 LM358 1/2
R324 100K
R325 9K1
R391 4K7
R392 2K
Q320 2SC945
C392 0.1u
D390 1N4148
R393 61.9K 1%


P403 22V
VR402 10K
VR401 50K
P461
LED1
P402
B+
R442 2K
R441 2K
R413 1K
R412 68K
R443 100K
R444 100K
R445 47K
SVR403 100K
R446 51K
U403 HA17393
U402 LM358N
R439 1/2W 4.7
R436 1/2W 82
C414 0.1u 100V
ZD401 15V
C421 220u 25V
C417 10u 25V
R447 10K
R440 1/2W 330
SVR402 10K
C425 22u 16V
R453 10K
R454 2K
Q407 2SC945
R452 10K
R450 4K7
R451 10K
C422 0.01u
R448 2K
C423 10u 50V
R449 47K
C424 1u 50V
Q406 2SD669
R437 1W 100
C419 2200u 16V
C420 100u 50V
Q405 2SB649
R436 1W 1
C394 10u 250V
Q304 2SC3886
R342 2W 100
T301 DRIVE
D316 HER107
C328 10u 50V
R343 330
R344 1W 0.5
R345 1/2W 47
R380 1/2W 47
C329 1000P 1KV
C331 0.01u 500V
C332 47u 160V
HV
G4
G2
R376 1/2W 47K
ZD303 18V
D315 1N4148
C393 100P
C330 0.0056u 1.6KV
D317 BY329
C340 1000P 1KV
R352 1/2W 180
Q307 2SD669
D320 HER107
L302 LINEAR
R374 1/2W 510
R375 1/2W 510
C352 0.01u 500V
Q311 BF422
R369 220K
ZD306 12V
D327 HER107
R339 470
R340 17.4K 1%
R346 1/2W 47K
ZD307 12V
C334 0.01u
R350 1K
C336 100u 50V
SVR311 10K
D321 HER107
Q308 2SB649
R351 5W 1
R397 5W 1
T302 H-BIAS
Q305 TIP127
D319 HER107
L301
C338 2.2u 250V MPP
C339 0.68u 400V MPP
D326 HER107
R368 470
C350 10u 250V
R370 470K
D318 HER103
R347 1/2W 22K
R349 3W 180
C333 10u 160V
R348 1K
Q306 2SD669
6CK0402-1
C337 0.0056u 630V PPS
D322 HER205X2
R381 1/2W 68
C353 2.2u 250V
L304 6CK0405
L303 6CK0405
R362 1
D324 HER107
C347 470u 50V
R363 18K
R364 47K
R341 15K 1%
R336 1K
C326 0.0033u
C342 1u 250V MPP
R356 10K
R353 10K
R354 68K
C341 0.01u
R357 68K
C344 3.3u 250V MPP
ZD304 12V
Q309 IRF630
ZD305 12V
C343 0.01u
R358 100K
R355 100K
Q310 IRF630
D323 HER107
R360 1K
R361 3.3
C345 0.1u
R359 1K5
C346 100u 50V
R332 33K
FBT
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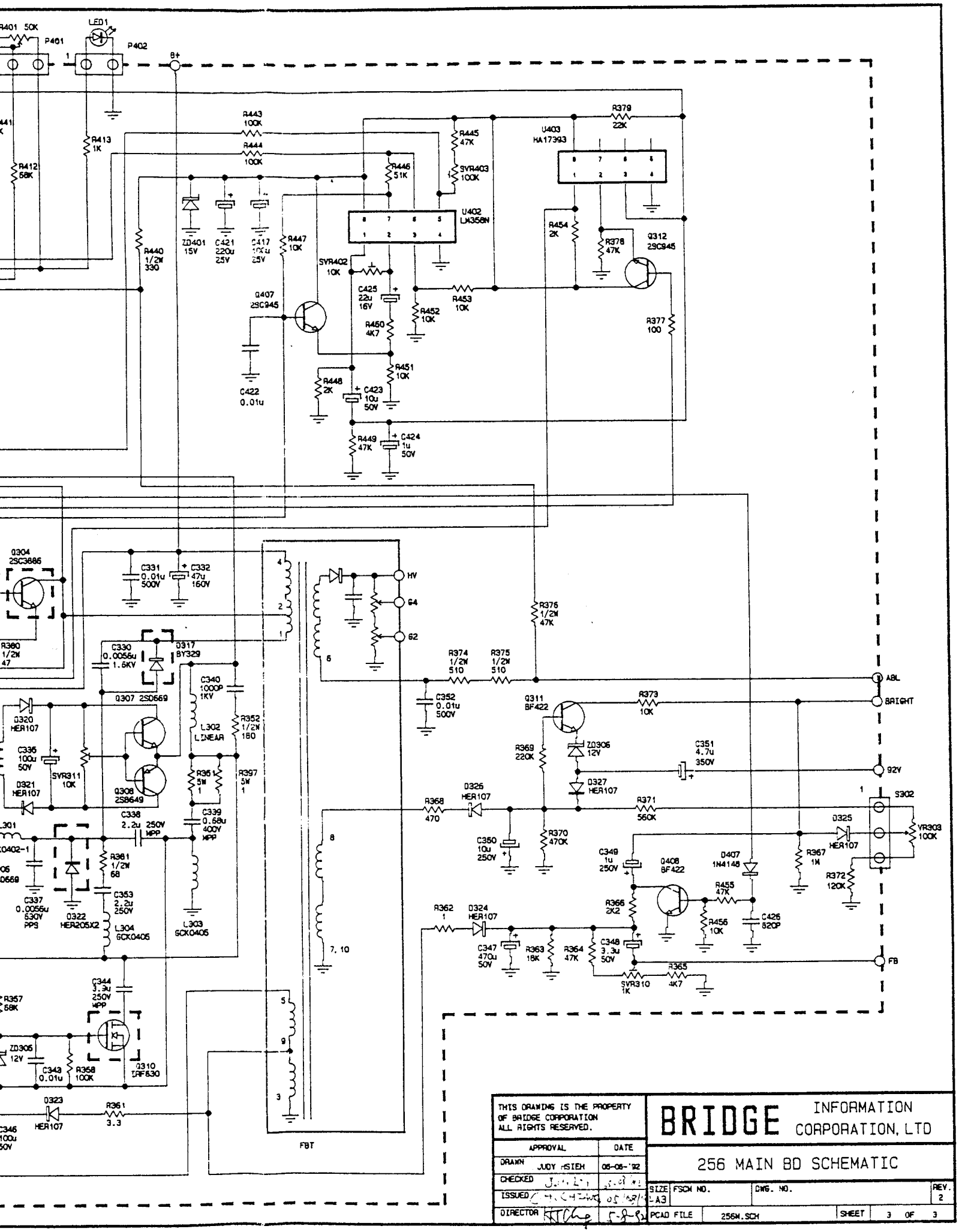
APPROVAL
DRAWN JUDY HSIEH
CHECKED
ISSUED
DIRECTOR



APPROVAL	DATE
DRAWN JUDY HSIEH	05-05-'92
CHECKED	
ISSUED	
DIRECTOR	

BRIDGE INFORMATION CORPORATION, LTD

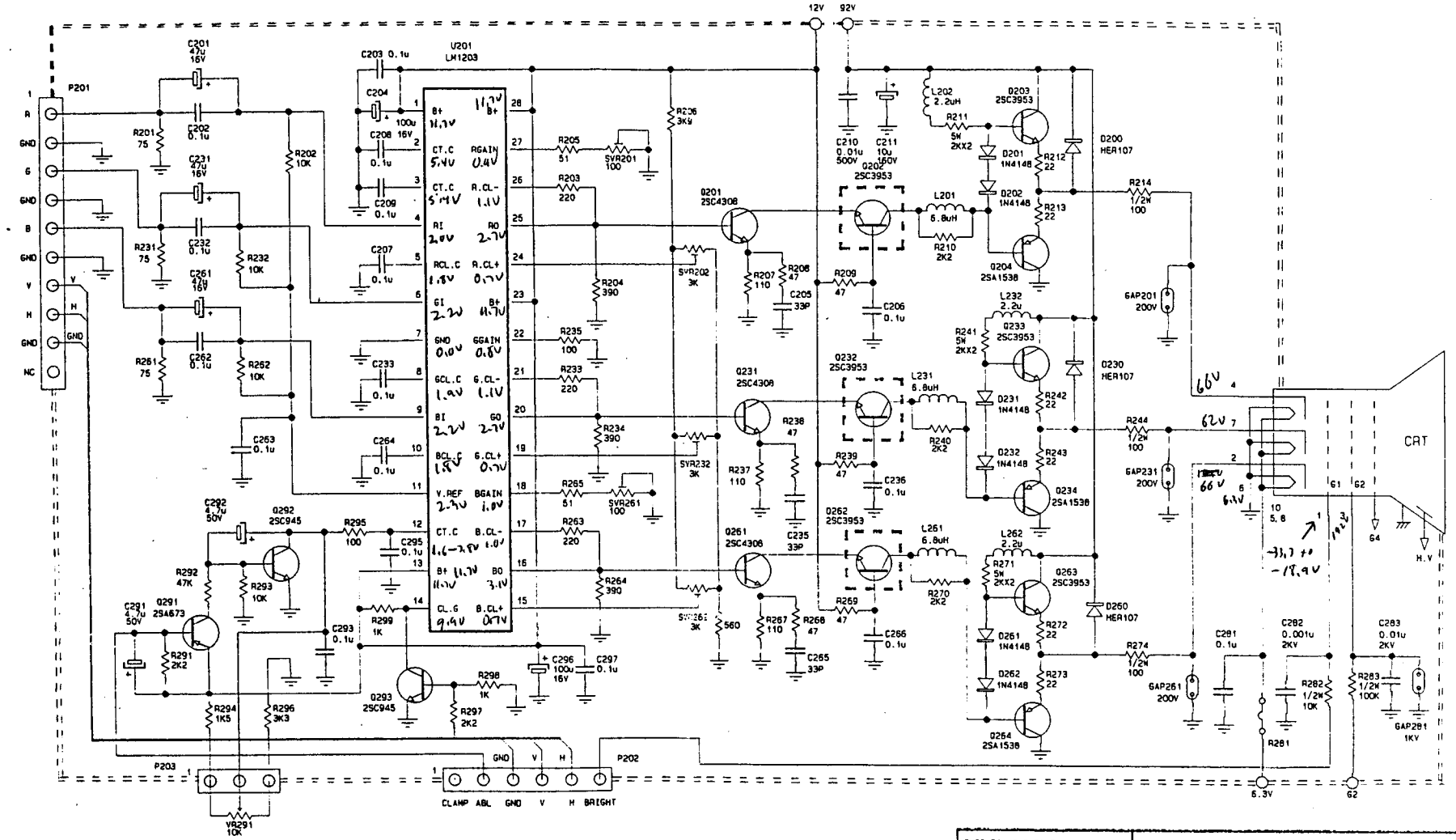
256 MAIN BD SCHEMATIC

SIZE	FSCM NO.	DWG. NO.	REV.
A3			2

PCAD FILE	256M.SCH	SHEET	3 OF 3

Voltages on U201, etc
- with Color Bars
- Brightness / Contrast @ MAX

REVISIONS				
PCO/ECN NO.	REV.	DESCRIPTION	DATE	DRAWN
0302562003-9	2		05-06-'92	JUDY HSIEH



Actually Closer to Nikano or Bridge CAE 356 SE XGA monitor

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	APPROVAL	DATE
DRAWN	JUDY HSIEH	05-06-'92
CHECKED	J.H. Lin	05-05-92
ISSUED	C.H. CHIANG	05/06/92
DIRECTOR	H.T. Chang	5-8-92

BRIDGE INFORMATION CORPORATION, LTD

256 CRT BD SCHEMATIC

SIZE: A3 FSCM NO. DWG. NO. REV

PCAD FILE 256CRT.SCH SHEET OF

Hewitt Rand monitor is closer than this one. to the CAD235

Goes green - Resolder Diode connected to R530