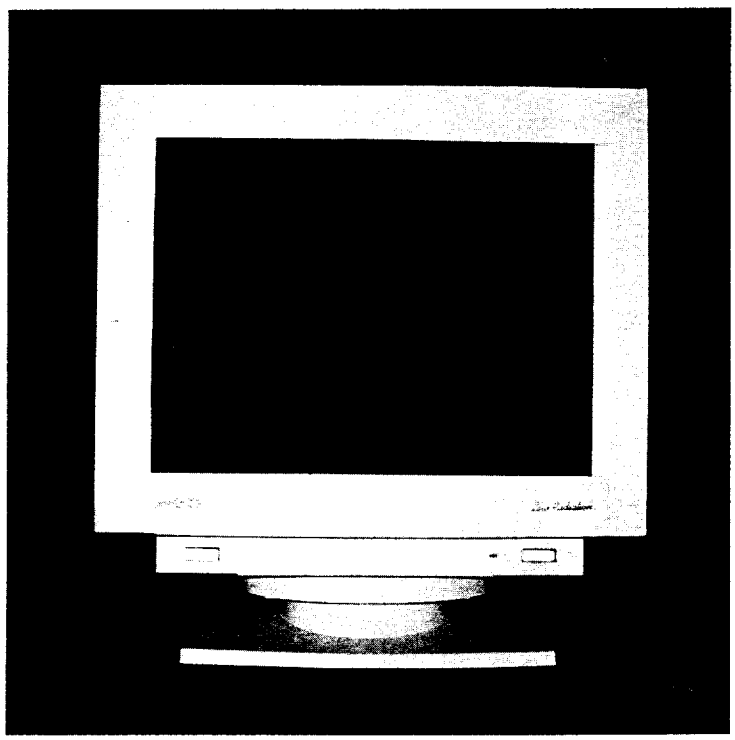
SAMTRON

15″ ERGO ULTRA VGA COLOR MONITOR

SERVICE MANUAL

SC-528DX/L



SERVICE MANUAL REVISION RECORDS

REV. NO.	REVISED PAGE	DESCRIPTION OF REVISION	DATE	REMARK
A	–	MAKING OUT SERVICE MANUAL	'93. 6. 1	

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SPECIFICATION

Picture tube	M36KUT26XX01(F) (SC-528DX) M36KUT23XX01(F) (SC-528DXL) 15 Inches diagonal 90 degree deflection, 0.28mm dot pitch, black matrix
Input signal	Video : 0.7Vp-p Analog level positive Sync : TTL level
Display Colors	Any Colors
Synchro-nization	Horizontal : 31.5/35.2/35.5/37.9/48.1/48.4/56.4KHz Vertical : 56/60/70/72/87Hz
Resolution	640 dots(H) × 350 Lines 640 dots(H) × 400 Lines 640 dots(H) × 480 Lines 800 dots(H) × 600 Lines 1024 dots(H) × 768 Lines
Video band width	75MHz(-3dB)
Display area	Horizontal : 260 ± 3mm Vertical : 195 ± 3mm
Ac Input voltage	AC90V ~ 264V(47~63Hz)
Power consumption	80W(MAX.) ± 10%
Dimension	354(W) × 364(H) × 400(D)mm
Weight	14kg(Approx)

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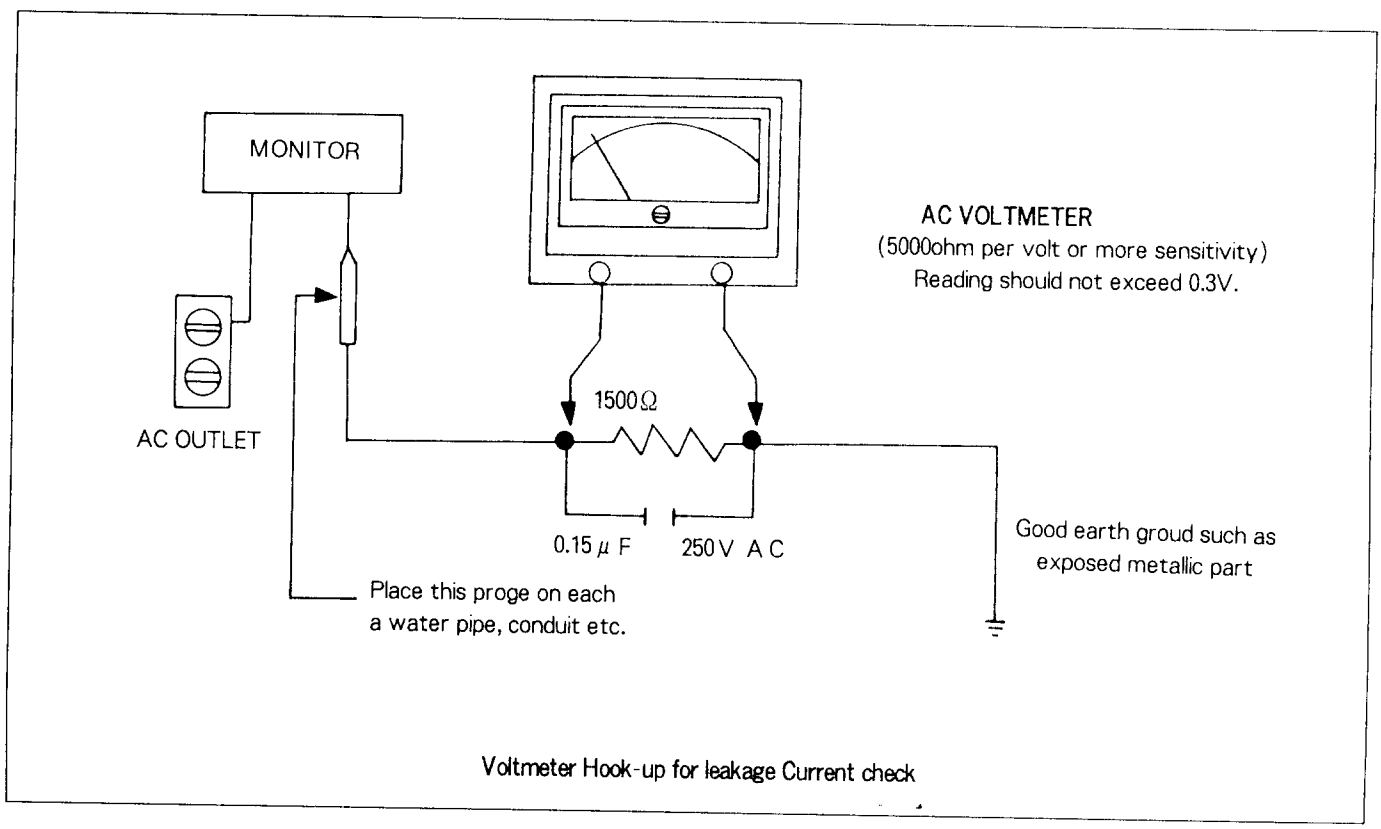
1. GNEERAL INFORMATION

(1) SAFETY PRECAUTION

WARNING : Service should not be attempted anyone untamilliar with the necessary precautions on this unit.
The following precautions are necessary during servicing.

1. Some parts such as a picture tube in this unit have special safety-relate charateistics for X-RAY RADIATION protection.
   For continued safeth, the parts replacement should be undertaken referring to item 2 below.
2. Many electrical mechanical parts in this unit have special safety-related characteristics for protection against shock hazard and others.
   These characterstics are often passed unnoticed by a visual inspection and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage wattage, etc.
   Replacement parts which have these special characteristics are identifide in the manual and supplements by shading on the schematic diagram and the parts list.
   Before replacing of these components read the parts list in this manual carefully
3. When replacing chassis in the cabinet, always be certain that all the protective devices are installed properly, such as insulating covers, strain relief, etc.
4. Before replacing the back cover of the set, thoroughly inspect inside the cabinet to see that no stray parts or tools have been left inside.
5. Before returning the set to the customer always perform an Ac leakage current check on the exposed metallic parts of the cabinet, such as terminal, screwheads, metal overlays, control shafts, etc, To be sure the set in safe to operate without danger of electrical shock, Plug the AC line cord directly into a 115V AC aoulet (do not use a line isolation transformer during this check). Use an AC voltmenter having 5000 ohms per volt or more sensitivity in the following manner.
   Connecta 1500ohm, 10watt resistor, paralleled by a 0.15mfd (μF), 250VAC capacitor, between a known good earth ground (water pipe, conduit, etc.) and the exposed metallic parts, one at a time.
   Measure the AC voltage across the combination of 1500 ohm resistor and 0.15mfd(μF) capacitor, Reverse the AC plug at the AC outlet and repeat AC voltage measurements for each exposed metailic part.
   Votage measured must not exceed 0.3V RMS. This corresponds to 0.2mA AC any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.



Voltmeter Hook-up for leakage Current check

[2] DOCUMENT DESCRIPTION

This is technical specification for a SC-528DX/L Color display monitor.
This document contains information on all technical details of the monitor.

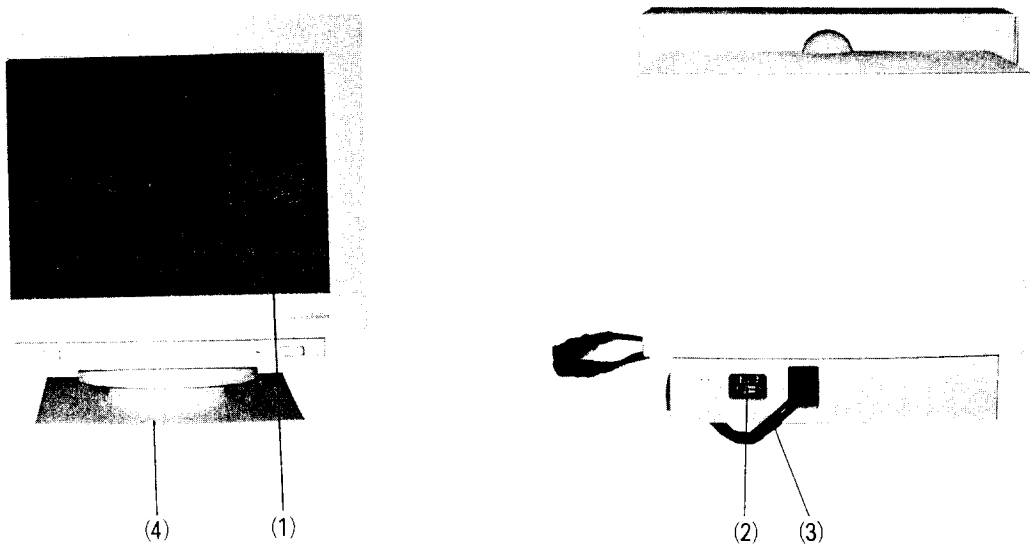
[3] PRODUCT DESCRIPTION

This SC-528DX/L Color display monitor to be operated in Analog Drive mode in put a highlight of these are provided below.

- Resolution : 640 Dots × 350 Lines
  640 Dots × 400 Lines
  640 Dots × 480 Lines
  800 Dots × 600 Lines
  1024 Dots × 768 Lines
- Display capability : up to 2400 Characters
- Active display area : Honizontal : 260±3
  Vertical : 195±3mm
- Horizontal frequency : 43.5/35.2/35.5/37.9/48.1/48.4/56.4KHz
- Vertical frequency : 56/60/70/72/87Hz

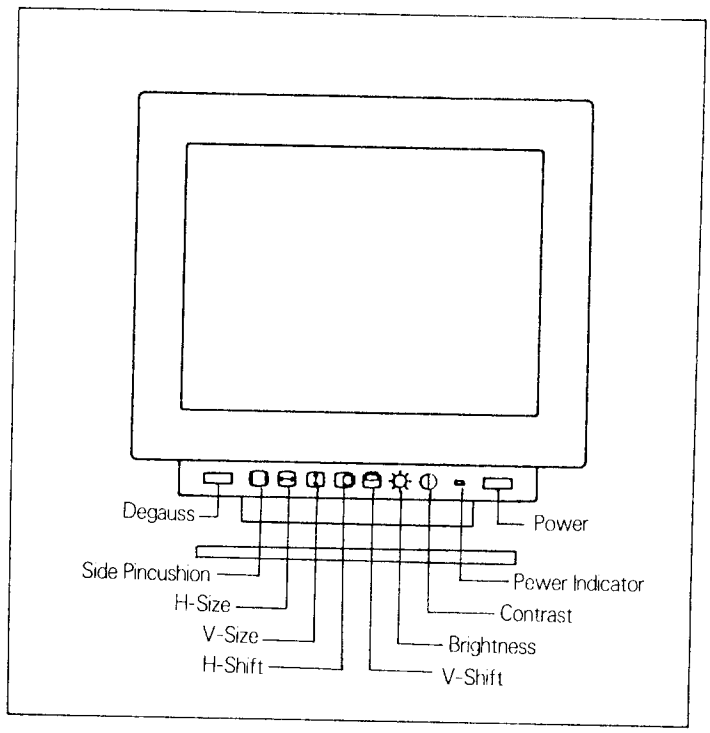
USING COLOR DISPLAY MONITOR

Meting SC-528DX/L Color display monitor.
Refor to the diagram below to be sure that your SC-528DX/L package includes all the items in this picture.
Save the orginal box and packing materials in case you have to ship or transport.



(1) Color display monitor
(2) Power Input
(3) Signal cable
(4) Swivel/Tilt stand

(4) User ADJUSTMENTS



Power switch	Tum the display on and off with this switch. O : Turn off, I : Turn on
Contrast	Adjusts the white level of the image, It sets the contrast between the light and dark portions of the image.
Brightness	Adjusts the black level of the image, It sets the overall brightness.
Vertical Position	Adjusts the vertical position of the image, The image should be centered on the screen.
Horizontal Position	Adjusts the horizontal position of the image. The image should be centered on the screen.
Height	Adjusts the vertical height of the image. The vertical image size should be approximately 195mm.
Width	Adjusts the horizontal width of the image. The horizontal image size should be approximately 260mm.
Side-Pincushion	Adjusts the left and right sides of the image. The image should be a rectangle.
Degauss	Removes the color impurities which can appear on the screen after longtime use. It is automatically activated when you tum on the display.

2. CHARACTERISTICS

[1] GENERAL CHARACTERISTICS

NO	Description	Nominal	Remark
1	CDT(Color Display Tube)	M36KUT26XX01(F) : SC-528DX M36KUT23XX01(F) : SC-528DXL	TOSHIBA
2	CDT Phosphor	P 22 Dark Phosphor	WITH ASN
3	D.Y Deflection Angle	90°	WITH VLF.
4	Resolution	800 × 600/1024 × 768 Lines	Graphic Mode
5	Sync. Frequency	H : 31.5/35.2/35.5/37.9/48.1/48.4/56.4KHz V : 56/60/70/72/87Hz	
6	Input Signal	R.G.B Analog	
7	AC Input	90V ~ 264V	Free Voltage
8	Display Color	Unlimited	
9	Display Zone	H : 260mm, v : 195mm	
10	Display Character	Up To 2400 Characters	

[2] Electrical Characteristics

2-1. Input Power

The display device shall maintain the specified performances in the range described below.

NO	Description	Nominal	Remark
1	Power Source	AC 90V ~ 264V	Universal Power
2	Frequency	47 ~ 63Hz	
3	Power Consumption	MAX. 80W ± 10%	

2-2. Input Signal

The input signals shall be applied to the display devices through a signal cable which must be intemeded as part of the monitor. (Rof. Fig 1 Timing chart)

Section	Description	Nominal	Remark
Video Signal Red Green Blue	Video input	0.0 to 0.7$V_{P\text{-}P}$ Analog	
	Polarity	Positive	
	Pixel Rate	Up to 75 MH_Z	
	Rise/Fall Time	Less than 8 nsec	
	Input impedance	75 Ohms	
Horizontal -Sync.	Sync input	2.4 ≦ Level ≦ 5V	
	Pulse Width	1.2~3.92 μ sec	
	Frequency	31.5/35.2/35.5/37.9/48.1/48.4/56.4KH_Z	
	Front Porch	0.18~1.12 μ sec	
	Back Porch	1.25~4.6 μ sec	
Vertical -Sync	Sync Input	2.4V ≦ Level ≦ 5V	
	Pulse Width	0.06~0.2msec	
	Frecuency	56/60/70/72/87H_Z	
	Front Porch	0.014~1.2 msec	
	Back Porch	0.48~1.88 msec	

2-3. CRT Electrode voltage

NO	Description	Nominal	Remark
1	Heater	6.3V±0.5V, 300mA±30mA	
2	Cathode(R. G. B)	80V±20V	
3	Gride #1	0V~-70V	
4	Gride #2	600V±100V	Screen
5	Gride #3	6.5kV±0.5kV	Focus
6	Anode Voltage	24kV±1kV@0uA	

2-4. Timing Charactristic

The monitor shall be capable of displaying 5 different vertical resolution within the scan frequencies as well as the scanning mode. (REF. FIG 1 TIMING CHART)

(3) MECHANICAL CHARACTERISTICS

3-1. Weight

The total weight shall be approximate 14kg.

3-2. Exter nal Dimensions(mm)

	Without Stand	With Stand
Width	354	354
Height	335	364
Length	400	400

3-3. Tilt/Swivel

The inclination of the suface of the screen shall be adjustable at least −5deg. With a min. 1deg from the wertical. The swivel must be min. 180deg.

3-4. Tool Resin

Tool	Resin	Color
Front	KJU	PARCHMENT WHITE
Rear	KJU	PARCHMENT WHITE
Stand	KJU	PARCHMENT WHITE

3. SERVICE ADJUSTMENT

1. +B VOLTAGE ADJUSTMENT

* Receive a cross-hatch pattern signal of 640 × 400 mode.
* Adjust contrast and brogfitness controls to maximum.
* Adjust G2 control to minium.
* Make sure the Ac power supply voltage is at the specified value.
* Adjust VR101(138.5V line-ADJ. volume) for +b voltage equal to 138.5 ± 0.5V.

2. HIGH VOLTAGE ADJUSTMENT

* Receive a cross-hatch pattern signal of 640 × 400 mode.
* Adjust VR102(+B controler) for the voltage of pin No.2 of FBT equal to 68 ± 0.5V.

3. HORIZONTAL DEFLECTION CIRCUIT ADJUSTMENT

3-1. Horizontal oscillation Frequency adjustment(H-HOLD)

* Disconnect the signal cable from signal source.
* Adjust VR302(horizontal frequency control) for the horizontal frequency equal to 31.5 ± 0.2kHz
* The horizontal frequency for other modes are automatically set by interface circuit.

3-2. Horizontal position adjustment. (H-SHIFT)

* Receive a cross-hatch pattern signal of 800 × 600(37.9kHz, 60Hz) mode.
* The picture is to be placed at the center position of the CDT screen by sdjusting VR904(H-SHIFT control) located at the bottom side of front.

3-3. Horizontal width adjustment. (H-WIDTH)

* Adjust contrast and brightness controls to maximum.
* Receive a cross-hatch pattern signal. (800 × 600 mode 37.9kHz 60Hz)
* Adjust VR902(H-WIDTH control) located at the bottom side of the front, for the H-SIZE equal to 260mm.

4. VERTICAL DEFLECTION CIRCUIT

4-1. Vertical oscillation frequecny adjustment. (V-HOLD1, V-HOLD2)

* Disconnect the signal cable from signal source.
* Adjust VR305(V-HOLD2) control to maximum value of resistance.
* Adjust VR301(V-HOLD1) for the vertical frequency equal to 48 ± 0.5Hz
* Receive a cross-hatch pattern signal of 800 × 600(37.9kHz, 60Hz) mode.
* Adjust VR903 located at the bottom side of the front for the V-SIZE equal to 195mm.
* Receive a cross-hatch pattern signal of 640 × 480(37.9kHz, 72Hz) mode.
* Adjust VR305(V-HOLD2) for the v-SIZE equal to 195mm.

4-2. Vertical linearity adjustment(V-LIN)

* Receive a cross hatch pattern signal. (37.9kHz, 60Hz mode)
* Adjust the size volume so that the height becomes 195mm.
* Adjust V-LIN volume(VR303) for optimum linearity.

4-3. Vertical size adjustment

* Receive a cross hatch pattern signal. (37.9kHz, 60Hz mode)
* Adjust VR903(SIZE control) located at the bottom of the front for the height of the pattern equal to 195mm.

4-4. Vertical position adjustment (V-SHIFT)

* Receive a cross hatch pattern signal. (37.9kHz, 60Hz mode)
* The picture is to be placed at the center position of the CDT screen by adjustiong VR905(V-SHIFT control) located at the bottom side of front.

5. VIDEO CIRCUIT ADJUSTMENT

5-1. Controls function

*Brightness volume (VR906)

This knob controls the black level of the image.

*R. G. B gain volumes (VR401, VR402, VR403)

These volumes control the gain of RED, GREEN, BLUE video pre-amplifier.

*R. G. B. bias volume (VR405R, VR405G, VR405B)

These volumes control the bias voltage of RED, GREEN, BLUE cathode of CDT.

*Screen volume (On the FBT)

This volume controls the screen voltage of the CDT.

*Cpmtrast Golume (VR907)

This knob controls the contrast of the image. It establishes the gain of the video amplifier but does not affect the raster luminance.

*Focus volume. (On the FBT)

This volume controls the focus of the picture.

6. WHITE BALANCE ADJUSTMENT

*Adjust R. G. B. gain and bias volumes to mechanical center.

*Operate the set for 15 minutes to warm up.

*Degauss the CDT face fully with degaussing tool.

*Adjust screen volume for the luminance of the raster equal to 1~3 F/L.

*Adjust bias volume of R. G. B so that the color of the raster may becomes white.

*Now adjust the screen volumes for the luminance of the raster equal to 1.0 F/L MAX. (without wideo signal)

*Receive a full white pattem signal.

*Adjust R. G. B gain volume for the specified white color.

Use the color analyzer equipment.

※ Standard Color coordinate. (@10F/L, 25F/L)

$X = 0.281 \pm 0.02$, $Y = 0.311 \pm 0.02$

※ Maximum brightness : More than 25 F/L.

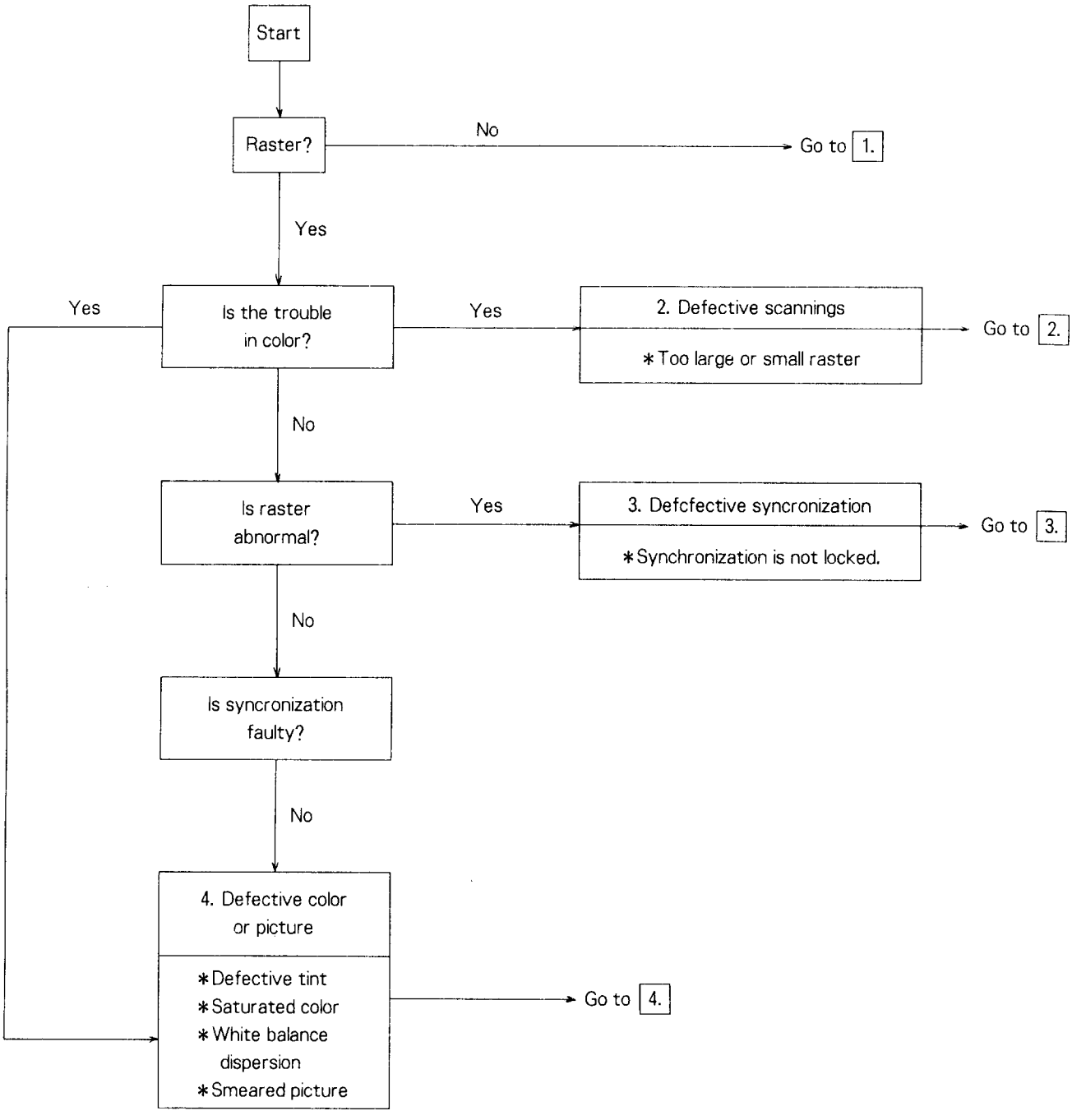
- With full white pattern.
- Brightness V/R : Set to raster cut off.
- Checking area : Center of display.
- Contrast V/R : Set to maximum.

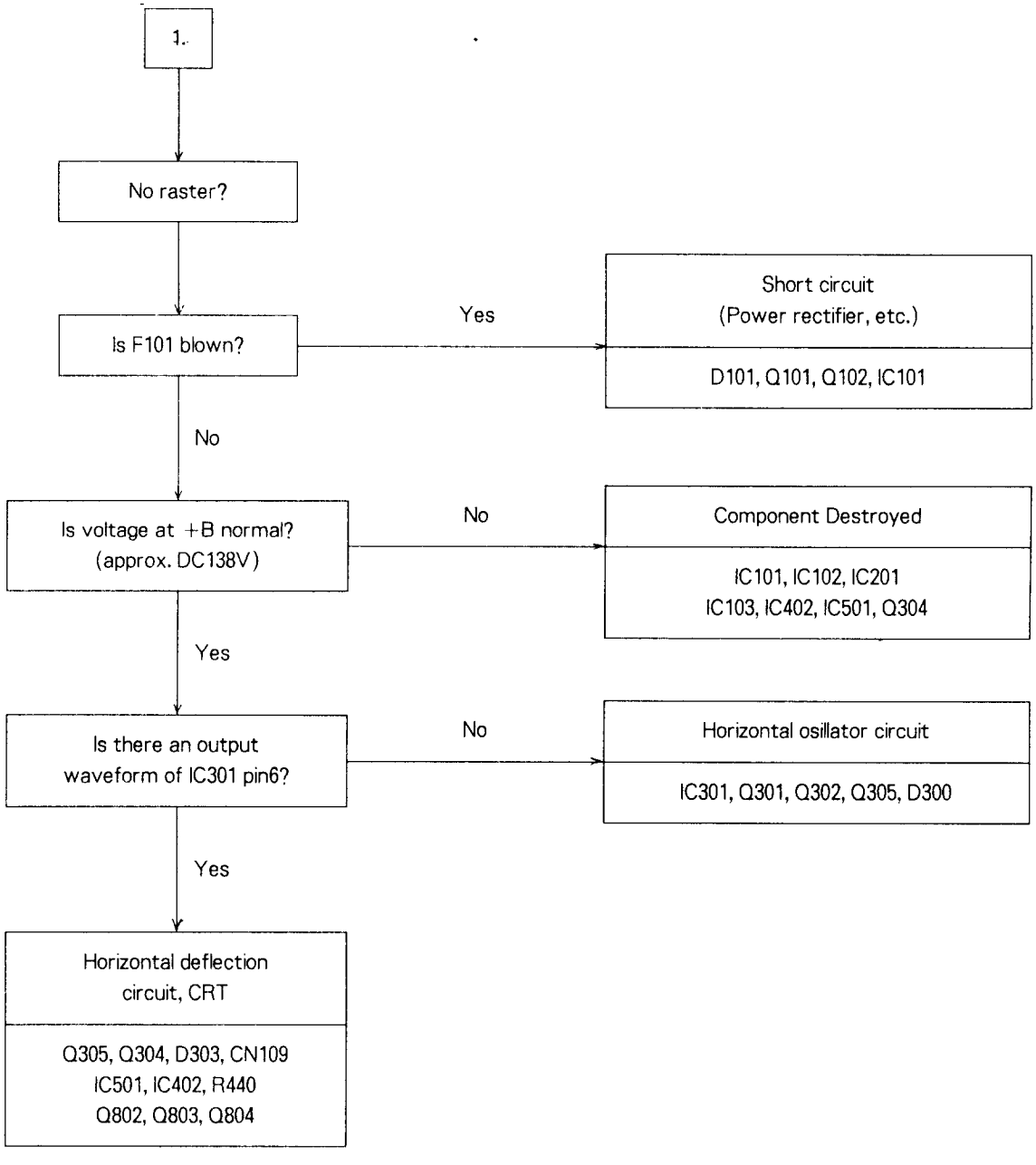
7. FLASHOVER PROTECTION

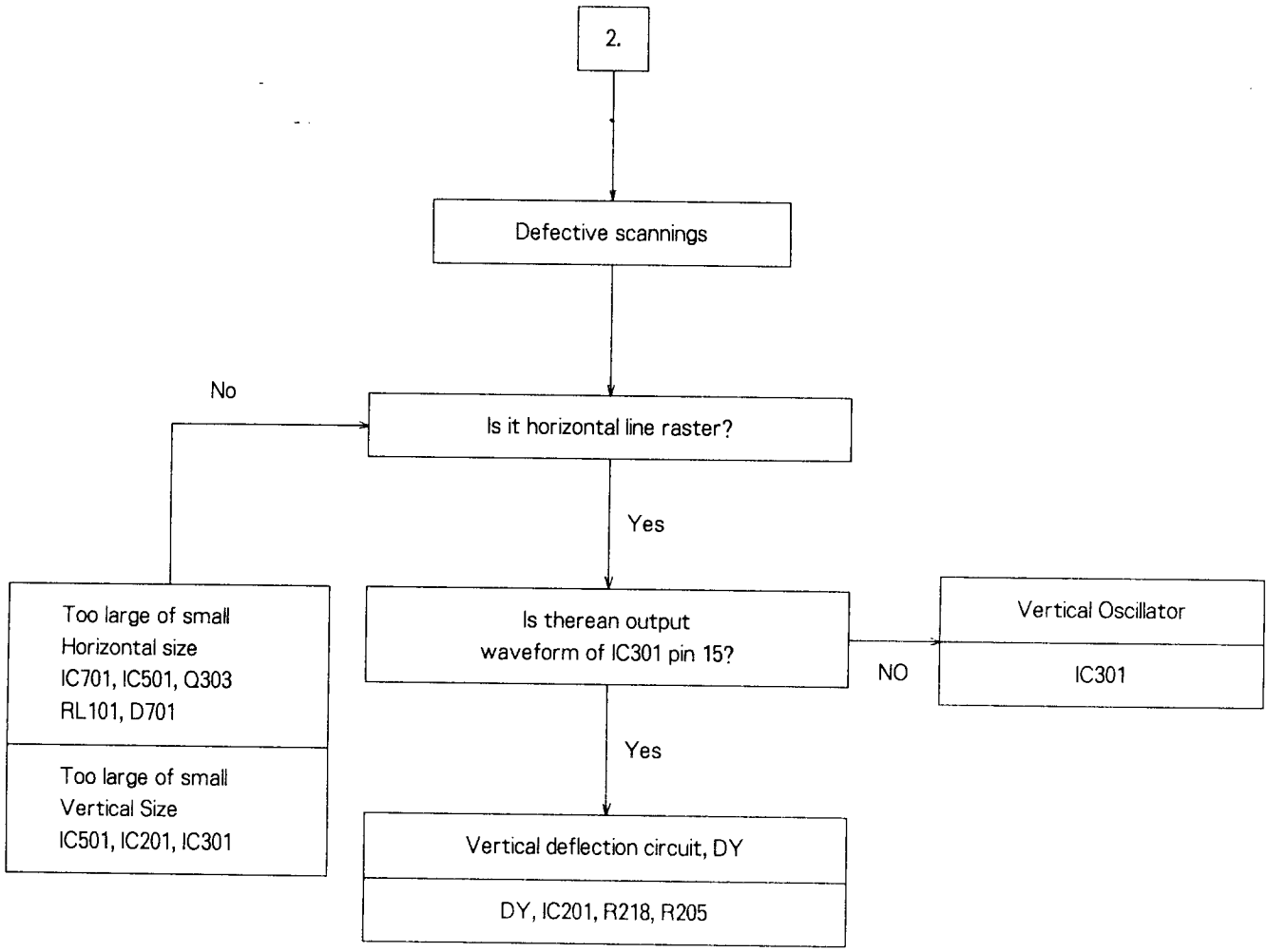
Due to the high voltage in this tube(CRT), internal flashover occurrs. Protection must be provided using spark gap to prevent flashover from destroying the cathode or other internal circuits.

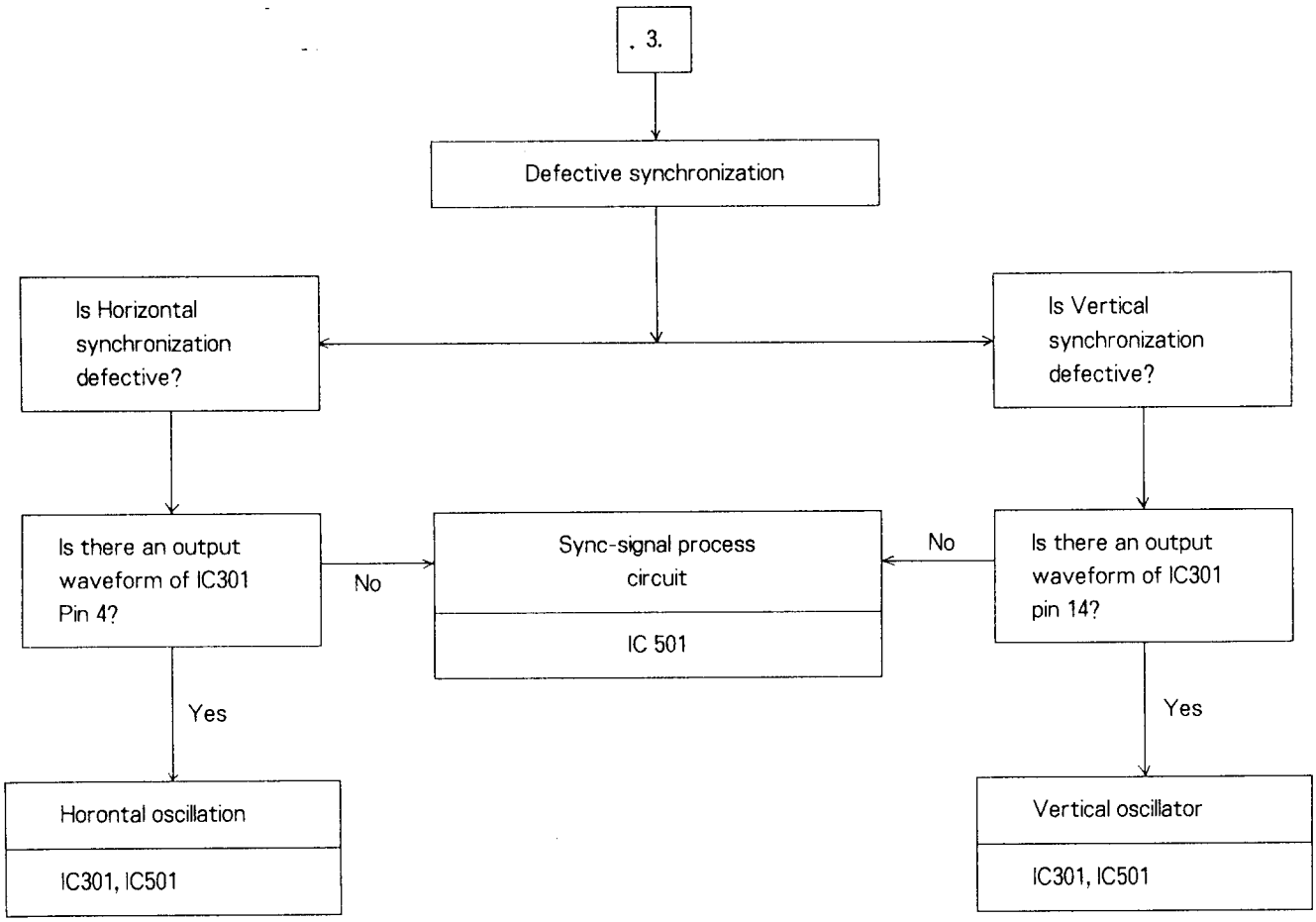
These spark gaps shall be connected with each electrode in socket PCB assembly.

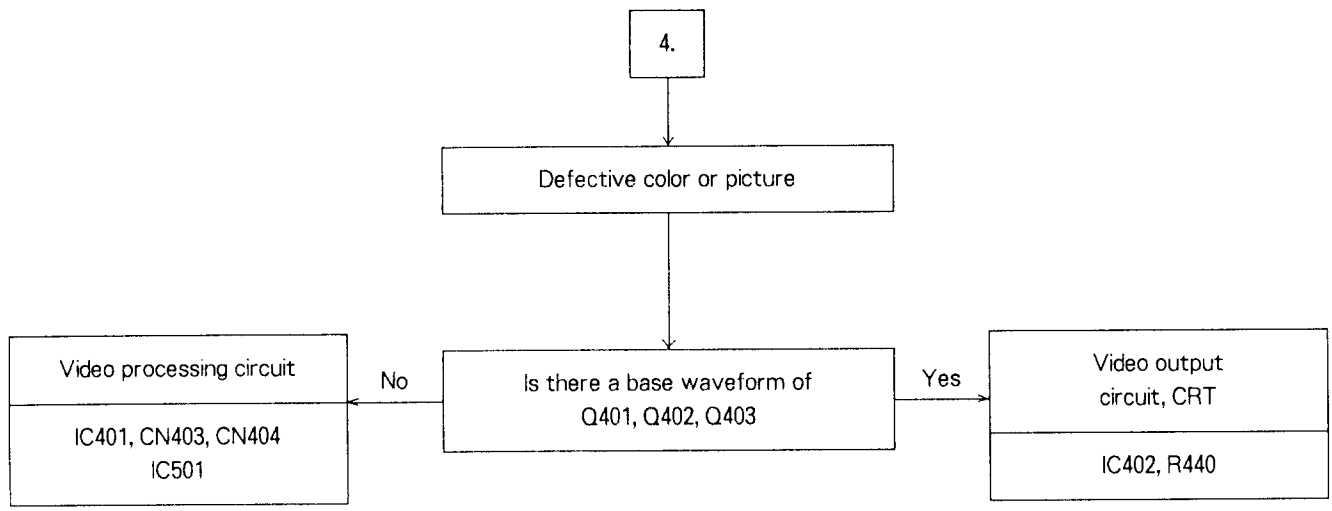
4. TROUBLE SHOOTING




1.
No raster?
Is F101 blown?
Yes
Short circuit
(Power rectifier, etc.)
D101, Q101, Q102, IC101
No
Is voltage at +B normal?
(approx. DC138V)
No
Component Destroyed
IC101, IC102, IC201
IC103, IC402, IC501, Q304
Yes
Is there an output
waveform of IC301 pin6?
No
Horizontal osillator circuit
IC301, Q301, Q302, Q305, D300
Yes
Horizontal deflection
circuit, CRT
Q305, Q304, D303, CN109
IC501, IC402, R440
Q802, Q803, Q804


2.
Defective scannings
No
Is it horizontal line raster?
Yes
Too large of small
Horizontal size
IC701, IC501, Q303
RL101, D701
Too large of small
Vertical Size
IC501, IC201, IC301
Is therean output
waveform of IC301 pin 15?
NO
Vertical Oscillator
IC301
Yes
Vertical deflection circuit, DY
DY, IC201, R218, R205


. 3.
Defective synchronization
Is Horizontal synchronization defective?
Is Vertical synchronization defective?
Is there an output waveform of IC301 Pin 4?
No
Sync-signal process circuit
IC 501
No
Is there an output waveform of IC301 pin 14?
Yes
Yes
Horontal oscillation
IC301, IC501
Vertical oscillator
IC301, IC501


4.
Defective color or picture
Video processing circuit
IC401, CN403, CN404
IC501
No
Is there a base waveform of Q401, Q402, Q403
Yes
Video output circuit, CRT
IC402, R440

5. THEORY OF OPERATION

1. GENERAL

The circuit of this monitor could be devided into four sections.
One of them is power supply section, and the others are the interface, sweep video, and CDT drive section.

2. POWER CIRCUIT

The switching mode power supply is adopted for this circuit.
The chassis (secondary side) is insulated from the power source (primary side) by the transformer T101.
By the winding of the transformer T101 connected to the collector of IC101 and the other winding connected to the control circuit, the IC101 is submitted to negative feed back and it operates as a blocking oscillator.
When the voltage of power source or load curredt is varied, it is detected by the winding and the voltage is applied to pin2 of IC101.
When the voltage applied to pin2 is varied, the conducting time of IC101 is varied to compensate output voltage for the change.
Which makes output voltage of T101 stabilized.
The range of operating frequency is 22kH$_Z$~70kH$_Z$.

3. +B Voltage regulator circuit

IC103 is a regulator for controling +B Voltage of each mode supplied to FBT(T301) pin2. IC104 detects the level of pulse which comes from FBT pin6 and outputs signals with different duty times and frequencies.
there signals drive IC103 to control the adjusment of +B Voltage of each mode to FBT pin2.

4. Interface circuit

This is a circuit for detecting the polarities and frequencies of the sync. pulse from computer, and for the automatic control of each mode.
It uses Micro controller unit, which has three functions as follows.
* MCU identifies each mode by processing the received frequency and polarity of the sync. from computer.
* MCU controls buffer and decoder IC to output proper signal for picture size, frequency, and picture position.
* When monitor is tumed on or mode is changed, mute function is operated.

5. VIDEO DRIVE CIRCUIT

The R. G. B input signals with analog level are applied to the pre-amplifier LM1203.
This section amplifies the output signal of a generator enough to dirve a video output circuit.
Video gain is controlled by the DC voltage of pin12 and DC bias is controlled by the DC voltage of the pin 15, 19 and 24.
Clamping pulse is applied to pin14 through IC 502(MCU IC).

6. VIDEO OUTPUT CIRCUIT

The LM2416T IC has 3 channels of R. G. B in one chip.
The LM2416T, the CRT video dirver, is a large signal amplifier with wide bandwidth.
It is designed to swing large voltage in a short duration.
The dirven signals are applied tp CDT cathodes.

7. DEFLECTION CIRCUIT

This circuit has two ICs. IC301 is a monolithic IC for horizontal and vertical sync processing. And IC201 is a monolithic IC for vertical power amplifier.

7-1. Vertical Deflection Circuit.

The vertical sync. signal with negative polarity is applied to pin 14 of IC 301. The vertical frequency of the oscillator can be controlled by the voltage at pin 12 of IC 301. And it can be varied vy adjusting V-HOLD volume (VR301, VR305)

The vertical height is controlled by the voltage at pin 16 of IC301.

The vertical linearity is controlled by the voltage at pin 17 of IC 301.

The ramp signal from pin 15 of IC 301 is applied to pin 1 of IC 201.

The IC 201 is a power amplifier.

Vertical position is determined by the DC cuttent flowing through vertical DY. So the picture is shifted to top or bottom by adjusting V-SHIFT volume(VR905).

7-2. Horizontal Deflection Circuit.

The horizontal sync. signal with negative polarity is applied to pin4 of IC301 The horizontal frequency of the oscillator can be controlled by the voltage at pin 1 of IC 301. And it can be varied by adjusting H-HOLD volume (VR302).

The flyback pulse is fed to pin 8 of IC302 for AFC(Automatic Frequency Control).

The phase of horizontal saw-tooth wave is compared with that of fly back pulse and horizontal sync. signal at AFC circuit of the IC301.

By adjusting H-phase control(VR904) the horizontal position of picture is varied. The horizontal frequency oscillation is obtained from pin3 of IC302 and is fed to the next horizontal drive circuit.

The horizontal output circuit uses a resonant flyback system to drive the deflection yoke that generates the anode the anode and focus vollages as well as several secondary supplies.

A diode modulator circuit is used for east/west correction and for setting horizontal size.

8. SIDE PINCUSHION CORRECTOR

This circuit compensates the east/west distortion.

The signal processing for east/west correction is done in IC701.

The vertical ramp signal from the IC301 is AC coupled through C205 to the east/west distortion amplitude control, VR901.

The output section of IC701 is a class-D(PWM) power amplifier.

A positive horizontal flyback pulse from T301 is divided by resistor R703 and applied to pin 9 of IC701.

The horizontal width is determined by the voltage of pin10, which is varied by the setting of the gorizontal width control volume (VR902).

9. PROTECTION CIRCUIT

If a failure, which causes high voltage increased, occurrs(such as opened sweep capacitor or failed power regulator), the cathode voltage of D300 will be increased by the FBT(T301).

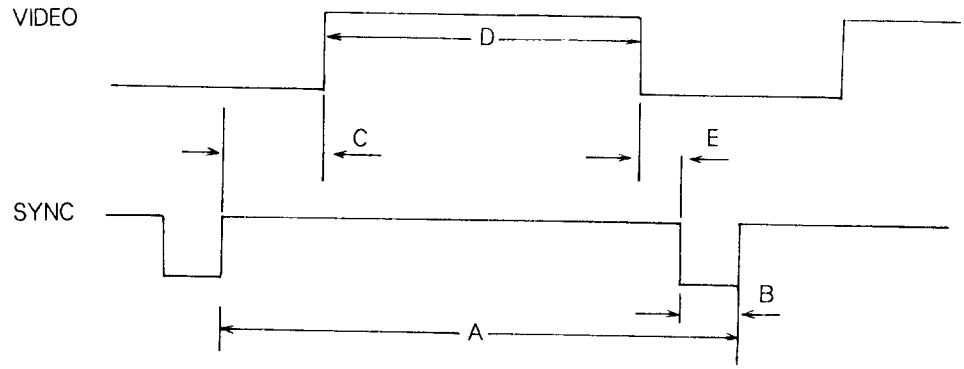
Then the protection occurrs by turning on Q301 as a result of the breakdown of D300.

When thes happens, the oscillator signal coming from IC301 can no longer dirve Q305. then the set is tumed off.

Therefore in order to restart operation, the monitor must be tumed off and on agaim.

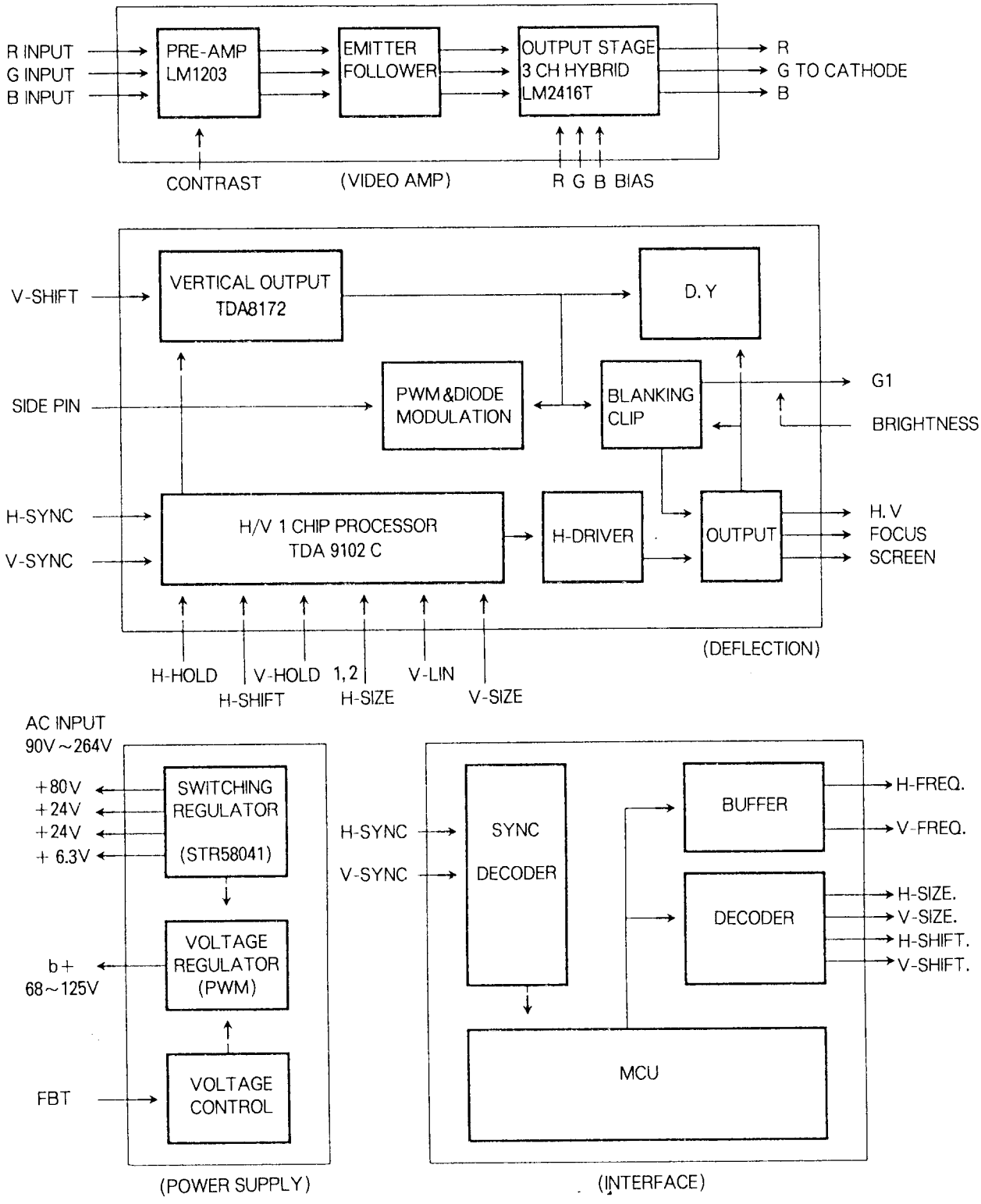
6. FIGURES

(1) Timing chart



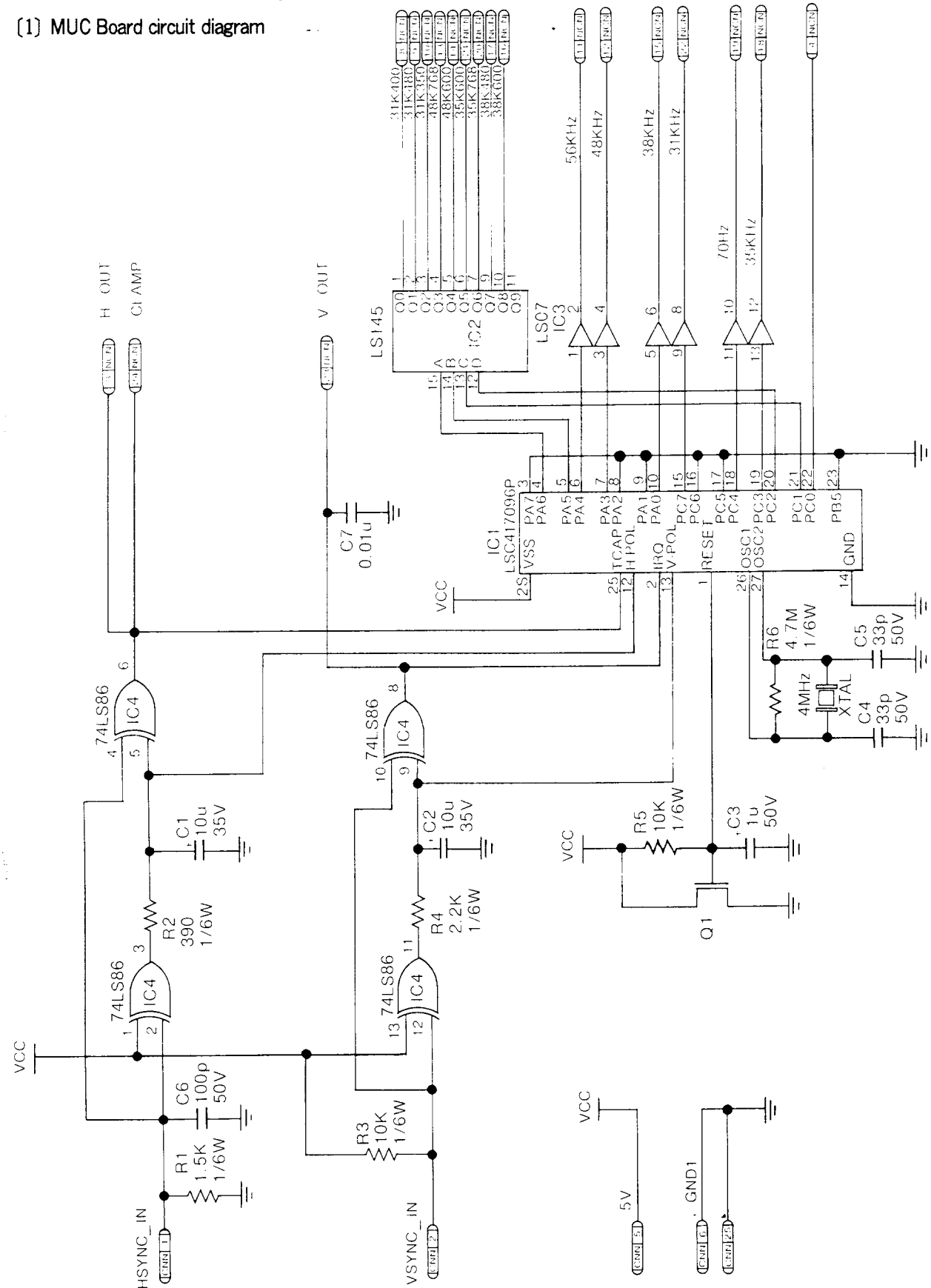
CRIPTION			RESOLUTION									
			640×350	640×400	640×480		800×600			1024×768 (I)	1024×768 (N, I)	1024×768 (N, I)
H	fH	kHz	31.48	31.48	31.48	37.897	35.16	37.878	48.077	35.52	48.363	56.476
	A	uS	31.774	31.774	31.774	26.413	28.44	26.40	20.800	28.15	20.677	17.707
	B	uS	3.816	3.816	3.816	1.27	2.000	3.20	2.400	3.92	2.092	1.813
	D	uS	1.741	1.741	1.741	4.063	3.56	2.20	1.280	1.25	2.462	1.920
	C	uS	25.438	25.438	25.438	20.317	22.22	20.00	16.000	22.80	15.754	13.658
	E	uS	0.80	0.80	0.80	0.762	0.67	1.00	1.120	0.18	0.369	0.320
	POL.		POS.	POS.	POS.	NEG.	P/N	POS.	POS.	POS.	NEG.	NEG.
V	fV	Hz	70	70	60	72.809	56	60.316	72.187	87.0	60.000	70.069
	A	mS	14.27	14.27	16.66	13.735	17.78	16.579	13.853	11.50	16.667	14.272
	B	mS	0.06	0.06	0.06	0.079	0.06	0.106	0.125	0.113	0.124	0.106
	C	mS	1.88	1.08	1.02	0.74	0.6	0.607	0.478	0.563	0.600	0.513
	D	mS	11.13	12.72	15.25	12.678	17.07	15.84	12.480	10.81	15.880	13.599
	E	mS	1.2	0.41	0.35	0.238	0.03	0.026	0.770	0.014	0.062	0.053
	POL.		NEG.	POS.	NEG.	NEG.	P/N	POS.	POS.	POS.	NEG.	NEG.

[2] Block diagram

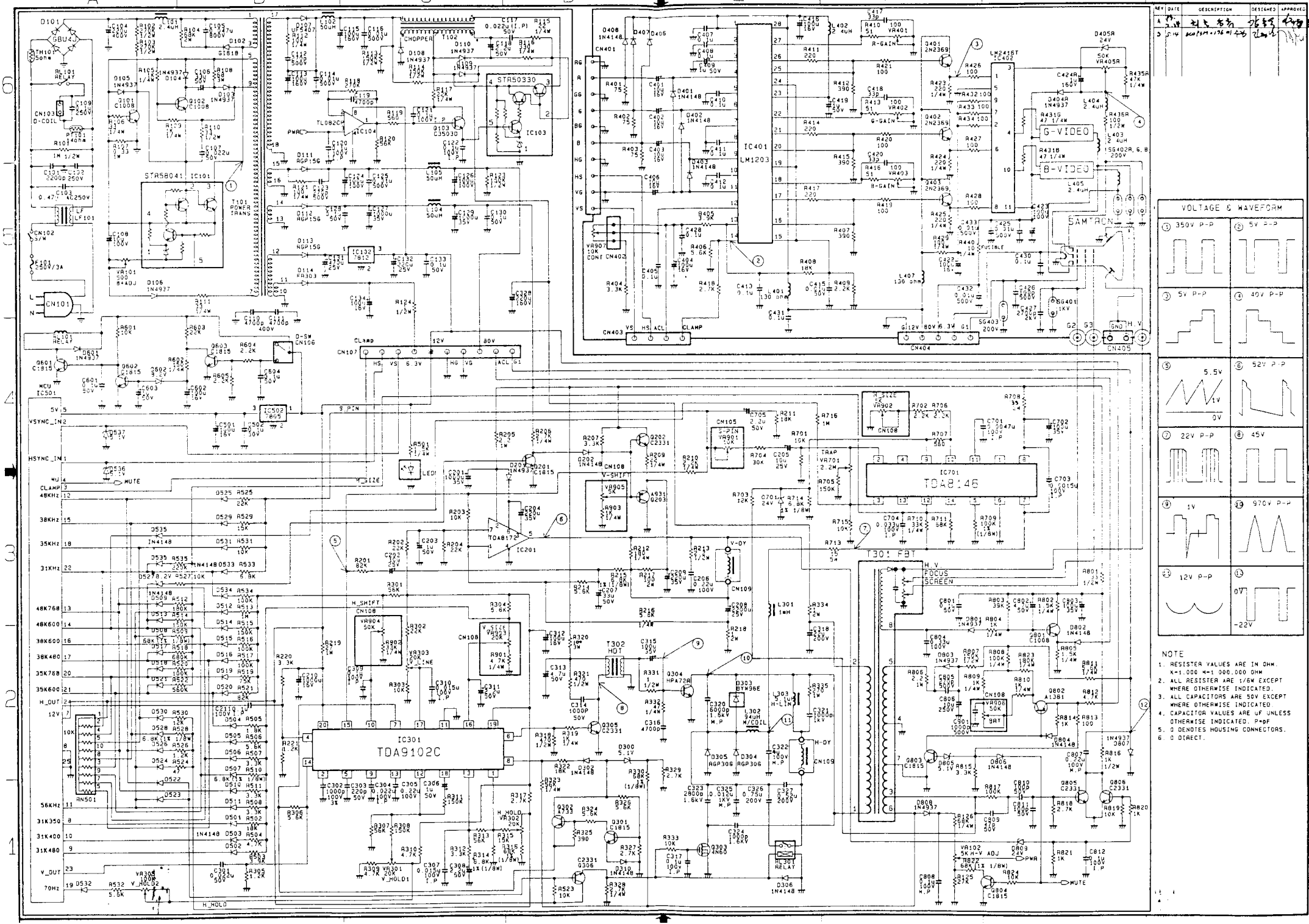


7. DRAWINGS

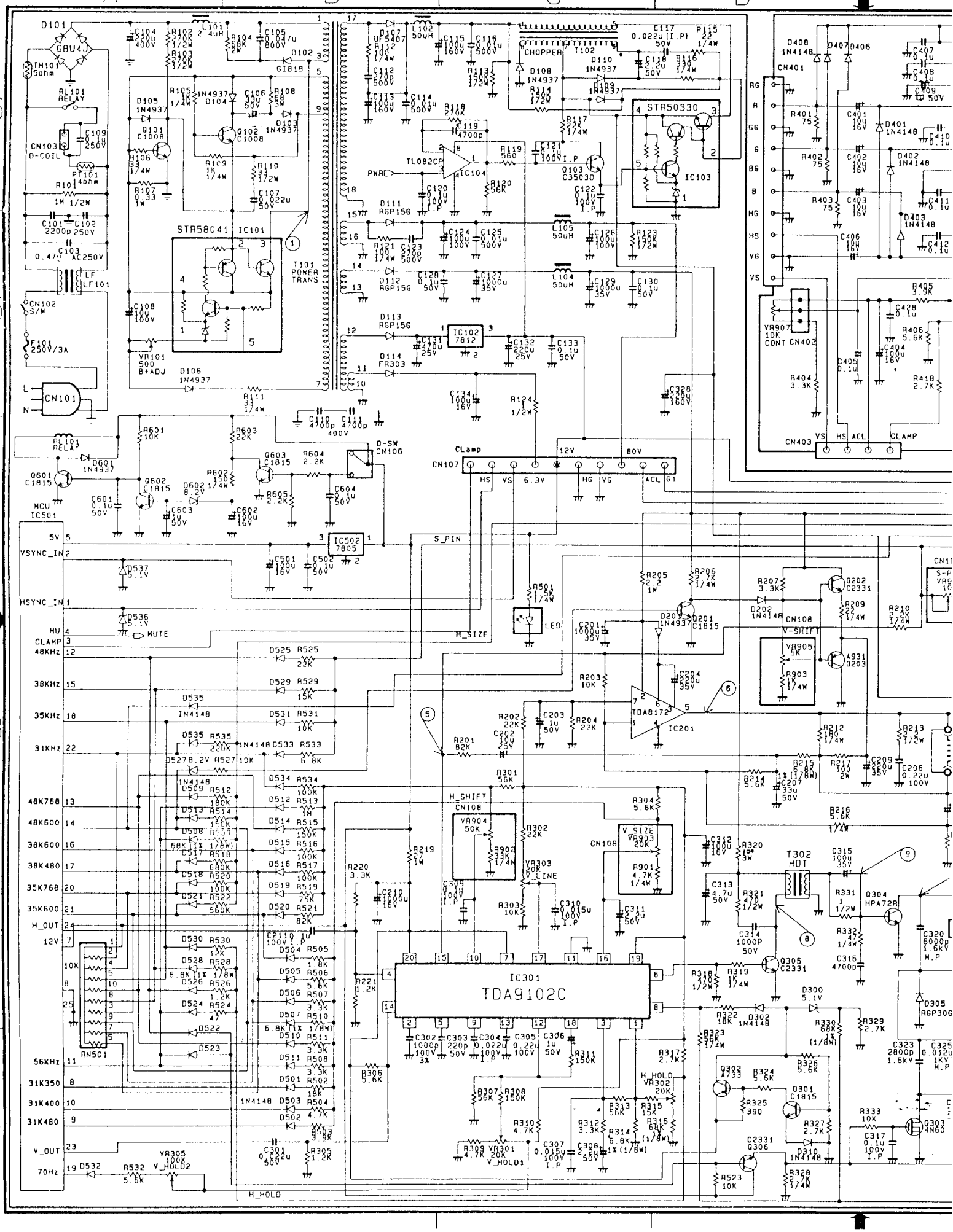
(1) MUC Board circuit diagram

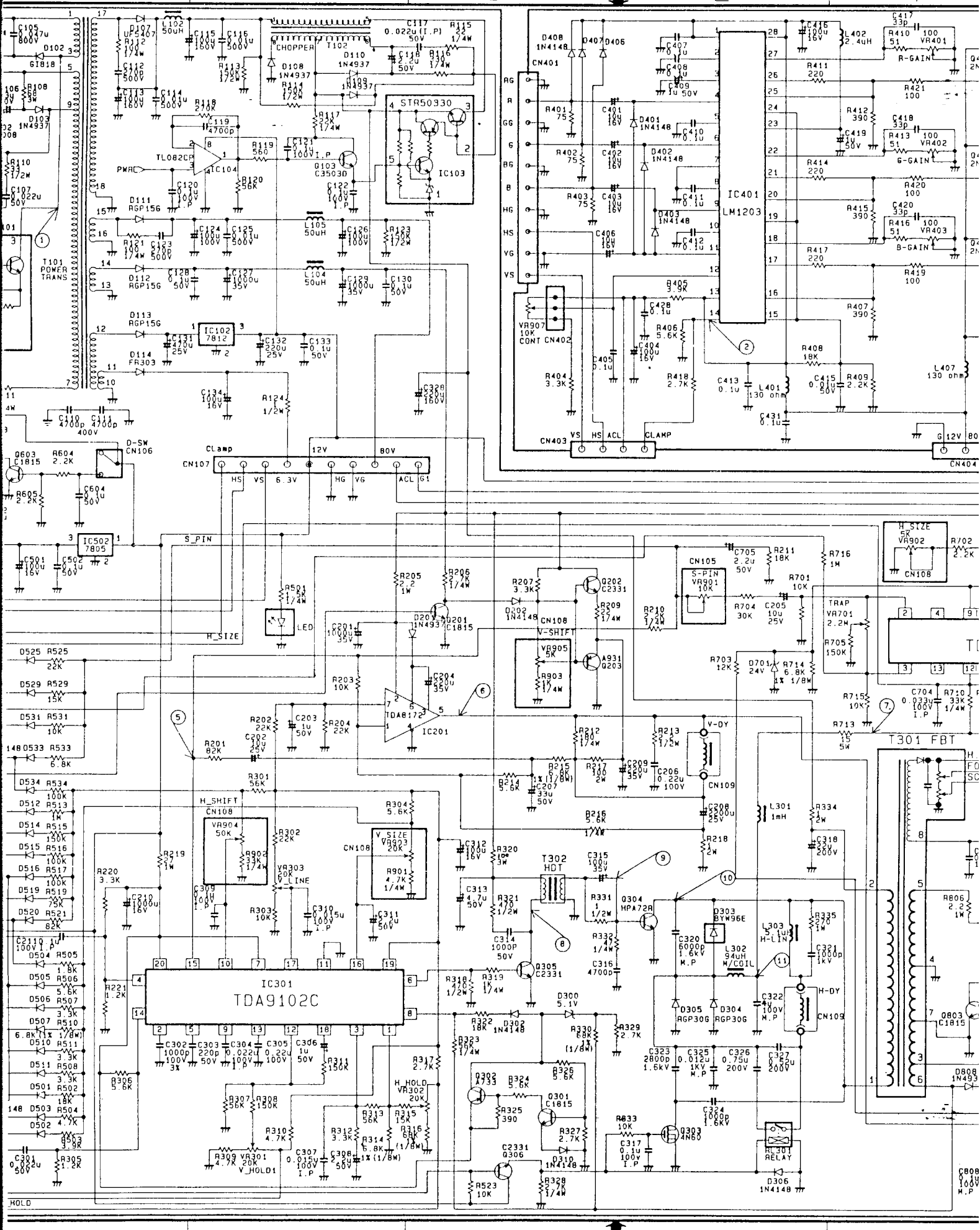


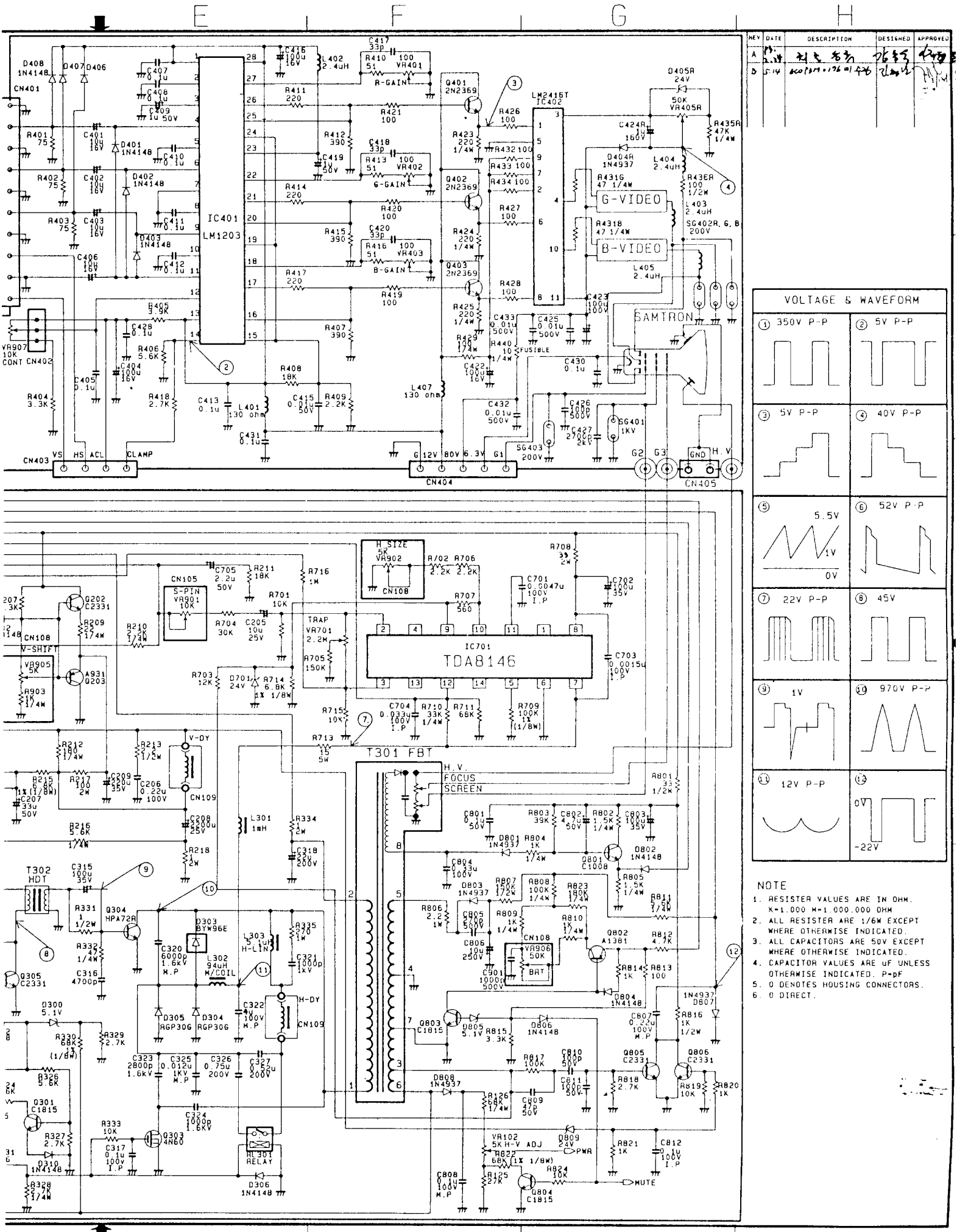
[2] CIRCULT DIAGRAM 2-1. SC-528DX Circuit diagram

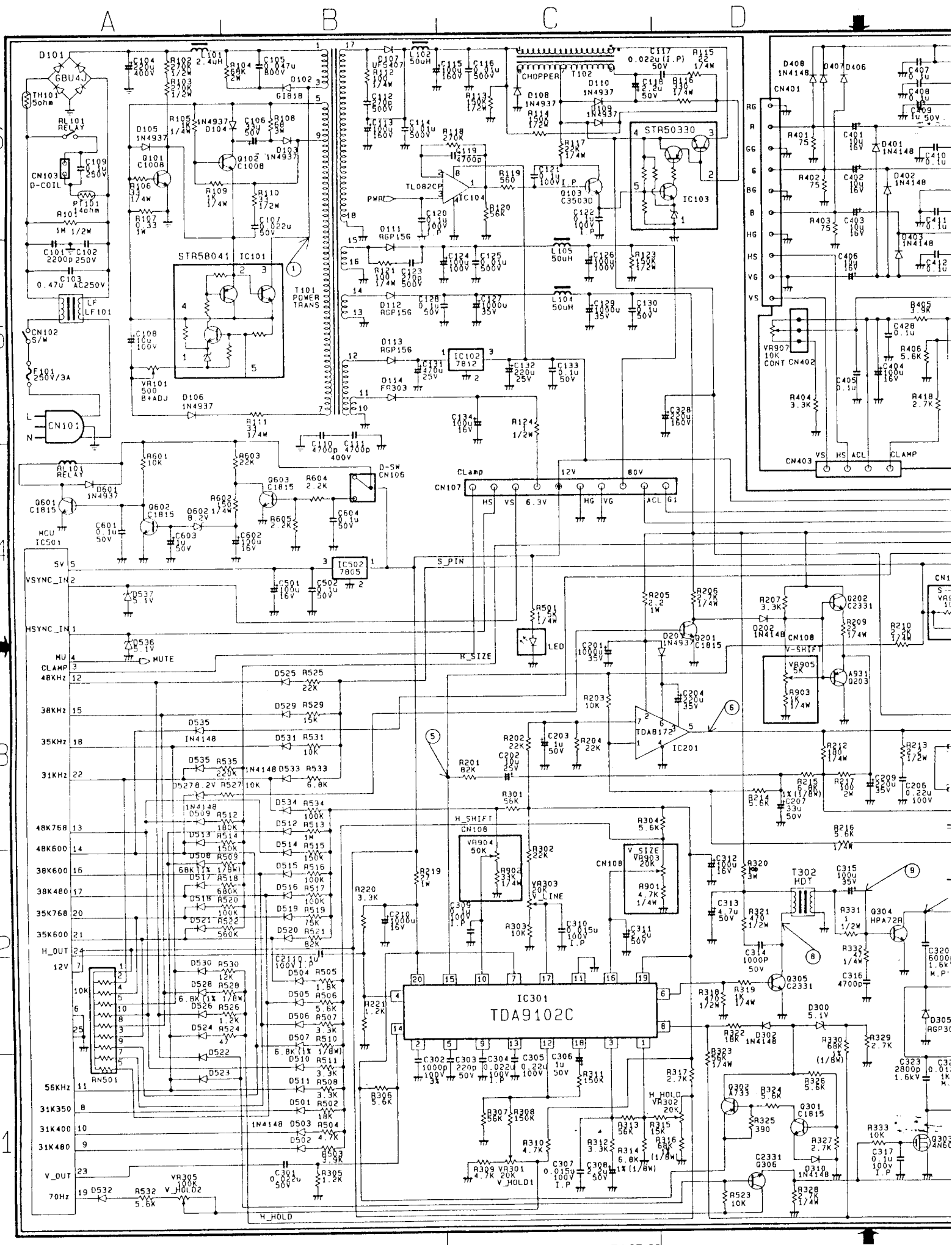


(2) CIRCULT DIAGRAM 2-1. SC-528DX Circuit diagram




B
C
D
E
F
STR50330
IC103
TL082CP
IC104
IC401
LM1203
IC102
7812
IC502
7805
TDA8172
IC201
IC301
TDA9102C
T101
POWER
TRANS
T102
CHOPPER
T301 FBT
T302
HDT
CN401
CN402
CN403
CN404
CN105
CN106
CN107
CN108
CN109
S-PIN
V-SHIFT
H_SIZE
H_SHIFT
V_SIZE
V_LINE
V_HOLD1
H_HOLD
V-DY
H-DY
M/COIL
H-LIN
R-GAIN
G-GAIN
B-GAIN
RELAY
LED
D-SW
PWAC
Clamp
12V
80V
6.3V
S_PIN
HOLD


E
F
G
H
REV
DATE
DESCRIPTION
DESIGNED
APPROVED
A
B
IC401
LM1203
IC402
LM2416T
G-VIDEO
B-VIDEO
SAMTRON
IC701
TDA8146
T301 FBT
T302
HDT
H_SIZE
V-SHIFT
S-PIN
TRAP
V-DY
H-DY
H-LIN
H.V.
FOCUS
SCREEN
BRT
VR102
5K H-V ADJ
RL301
RELAY
PWR
MUTE
CN401
CN402
CN403
CN404
CN405
CN105
CN108
CN109
VOLTAGE & WAVEFORM
① 350V P-P
② 5V P-P
③ 5V P-P
④ 40V P-P
⑤ 5.5V
1V
0V
⑥ 52V P-P
⑦ 22V P-P
⑧ 45V
⑨ 1V
⑩ 970V P-P
⑪ 12V P-P
⑫
0V
-22V
NOTE
1. RESISTER VALUES ARE IN OHM. K=1.000 M=1.000.000 OHM
2. ALL RESISTER ARE 1/6W EXCEPT WHERE OTHERWISE INDICATED.
3. ALL CAPACITORS ARE 50V EXCEPT WHERE OTHERWISE INDICATED.
4. CAPACITOR VALUES ARE uF UNLESS OTHERWISE INDICATED. P-pF
5. ○ DENOTES HOUSING CONNECTORS.
6. ⏚ DIRECT.


A
B
C
D
STR50330
IC103
STR58041
IC101
T101
POWER TRANS
CHOPPER
T102
TL082CP
IC104
IC102
7812
IC502
7805
CN101
CN102
S/W
CN103
D-COIL
CN106
D-SW
CN107
CN108
CN401
CN402
CN403
VR907
10K
CONT
VR101
500
B+ADJ
VR905
5K
V-SHIFT
VR904
50K
H_SHIFT
VR903
20K
V_SIZE
VR902
50K
V_LINE
VR301
20K
V_HOLD1
VR305
100K
V_HOLD2
VA302
20K
H_HOLD
IC201
TDAB1721
IC301
TDA9102C
IC501
MCU
T302
HDT
RN501
LED
MUTE
S_PIN
H_SIZE
H_OUT
V_OUT
CLAMP
VSYNC_IN
HSYNC_IN
56KHz
31K350
31K400
31K480
70Hz
48K768
48K600
38K600
38K480
35K768
35K600
38KHz
35KHz
31KHz
48KHz
12V
5V
10K
D-COIL
F-COIL
RELAY
D101
GBU4J
TH101
50ohm
PT101
140ohm
LF101
F101
250V/3A
L101
50uH
L102
50uH
L103
50uH
L104
50uH
L105
50uH
D102
GI818
D103
1N4937
D104
1N4937
D105
1N4937
D106
1N4937
D107
UF5407
D108
1N4937
D109
1N4937
D110
1N4937
D111
RGP15G
D112
RGP15G
D113
RGP15G
D114
FR303
D300
5.1V
D302
1N4148
D303
1N4148
D304
1N4148
D305
RGP30
D306
1N4148
D307
1N4148
D308
1N4148
D309
1N4148
D310
1N4148
D401
1N4148
D402
1N4148
D403
1N4148
D406
D407
D408
1N4148
D501
5.1V
D502
D503
1N4148
D504
D505
D506
D507
D508
D509
D510
D511
D512
D513
D514
D515
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D520
D521
D522
D523
D524
D525
D526
D527
5.2V
D528
D529
D530
D531
D532
D533
D534
D535
IN4148
D536
5.1V
D537
5.1V
D601
1N4937
D602
8.2V
Q101
C1008
Q102
C1008
Q103
C3503D
Q201
C1815
Q202
C2331
Q301
C1815
Q303
A733
Q304
HPA72R
Q305
C2331
Q306
C2331
Q601
C1815
Q602
C1815
Q603
C1815
A931
Q203
R101
1M 1/2W
R102
270K 1/2W
R103
270K 1/2W
R104
68K 2W
R105
1K 1/4W
R106
33 1/4W
R107
0.33 1W
R108
68 3W
R109
10 1/4W
R110
33 1/2W
R111
33 1/4W
R112
100 1/4W
R113
150 1/2W
R114
1720
R115
22 1/4W
R116
1/4W
R117
22K 1/4W
R118
270K
R119
560
R120
56K
R121
100 1/4W
R122
1/4W
R123
150K 1/2W
R124
1/2W
R126
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82K
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22K
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10K
R204
22K
R205
2.2 1W
R206
2.7K 1/4W
R207
3.3K
R208
1/4W
R209
22 1/4W
R210
1/4W
R211
1/4W
R212
100 1/4W
R213
1/8W
R214
5.6K
R215
0.68K
R216
5.6K 1/4W
R217
100 2W
R218
1/4W
R219
27 1W
R220
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150K
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4.7K
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4.7K
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150K
R312
3.3K
R313
56K
R314
6.8K 1% (1/8W)
R315
15K
R316
6.8K
R317
2.7K
R318
470 1/2W
R319
1K 1/4W
R320
3W
R321
470 1/2W
R322
18K
R323
56K 1/4W
R324
5.6K
R325
390
R326
5.6K
R327
2.7K
R328
2.7K 1/4W
R329
2.7K
R330
68K 1% (1/8W)
R331
1 1/2W
R332
47 1/4W
R333
10K
R401
75
R402
75
R403
75
R404
3.3K
R405
3.9K
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5.6K
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100K
R519
75K
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100K
R521
100K
R522
560K
R523
10K
R524
1.2K
R525
22K
R526
1.2K
R527
10K
R528
6.8K 1% 1/8W
R529
15K
R530
12K
R531
10K
R532
5.6K
R533
6.8K
R534
100K
R535
220K
R536
R537
C101
2.4uH
C102
2200p 250V
C103
0.47u AC250V
C104
220u 400V
C105
0.047u 800V
C106
330u 50V
C107
0.022u 50V
C108
10u 100V
C109
0.1u 250V
C110
4700p 400V
C111
4700p 400V
C112
5600p
C113
100u 160V
C114
0.01u 500V
C115
100u 160V
C116
0.1u 500V
C117
0.022u (I.P) 50V
C118
2.2u 50V
C119
4700p
C120
0.1u 100V P
C121
0.1u 100V I.P
C122
0.1u 100V I.P
C123
2700p 500V
C124
100u 100V
C125
0.01u 500V
C126
1000u 100V
C127
1000u 35V
C128
0.1u 50V
C129
1000u 35V
C130
0.1u 50V
C131
470u 25V
C132
220u 25V
C133
0.1u 50V
C134
100u 16V
C201
1000u 35V
C202
100u 25V
C203
1u 50V
C204
220u 35V
C205
0.22u 100V
C206
0.22u 100V
C207
33u 50V
C208
220u 35V
C209
220u 35V
C210
1000u 16V
C211
0.1u 100V I.P
C212
1000u 16V
C213
4.7u 50V
C214
1000P 50V
C215
4700P
C216
4700p
C217
0.1u
C218
2.2u 50V
C219
0.1u 100V I.P
C220
0.1u 100V I.P
C221
0.1u 100V I.P
C222
0.1u 100V I.P
C223
0.1u 100V I.P
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C298
0.1u 100V I.P
C299
0.1u 100V I.P
C300
0.1u 100V I.P
C301
0.022u 50V
C302
1000p 100V 1%
C303
220p 50V
C304
0.022u 100V I.P
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0.1u 50V
C975
0.1u 50V
C976
0.1u 50V
C977
0.1u 50V
C978
0.1u 50V
C979
0.1u 50V
C980
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C981
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C982
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C983
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C984
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C985
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C986
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C987
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C988
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C989
0.1u 50V
C990
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C991
0.1u 50V
C992
0.1u 50V
C993
0.1u 50V
C994
0.1u 50V
C995
0.1u 50V
C996
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C997
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C998
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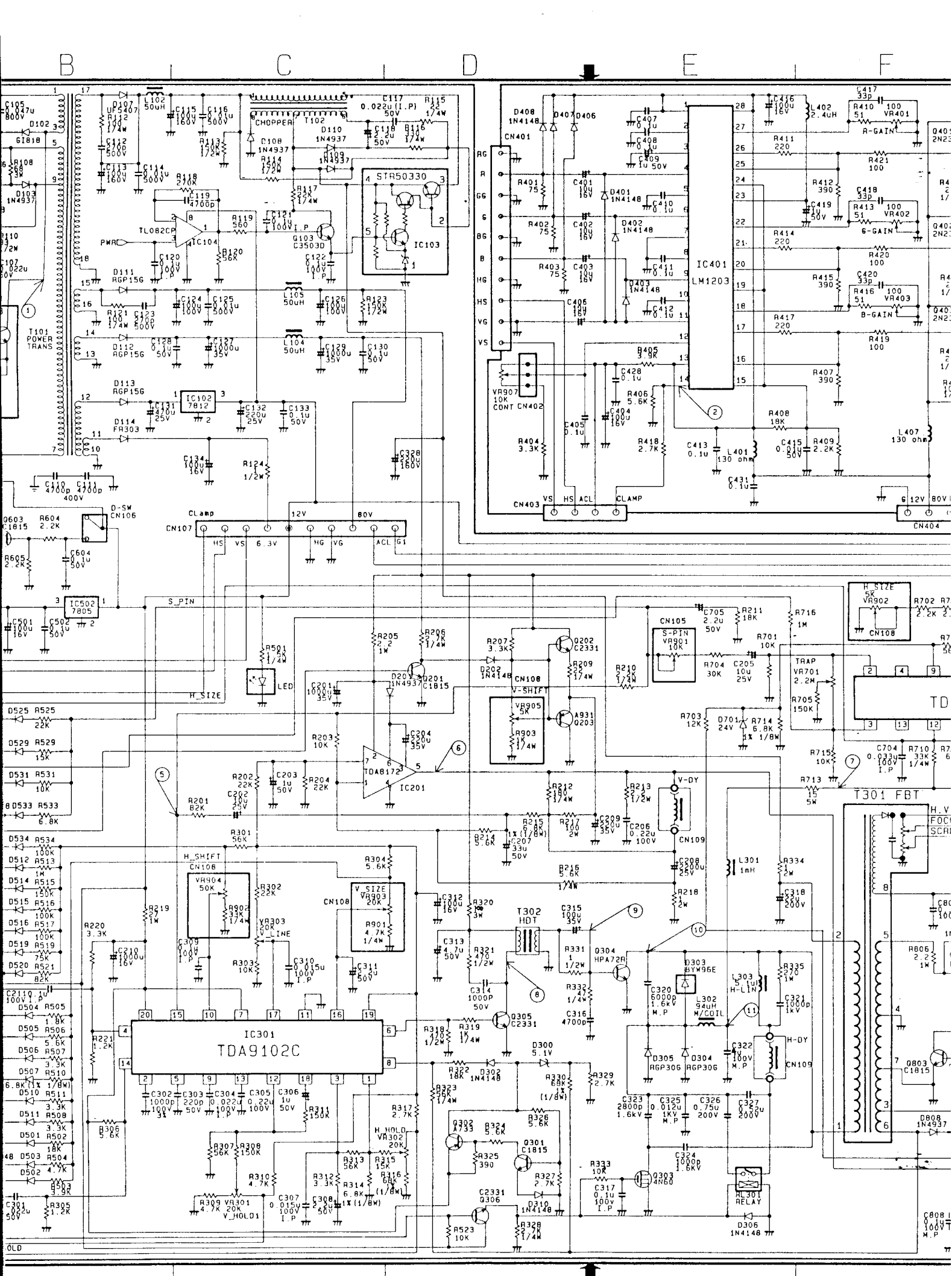
C999
0.1u 50V
C1000
0.1u 50V


IC401
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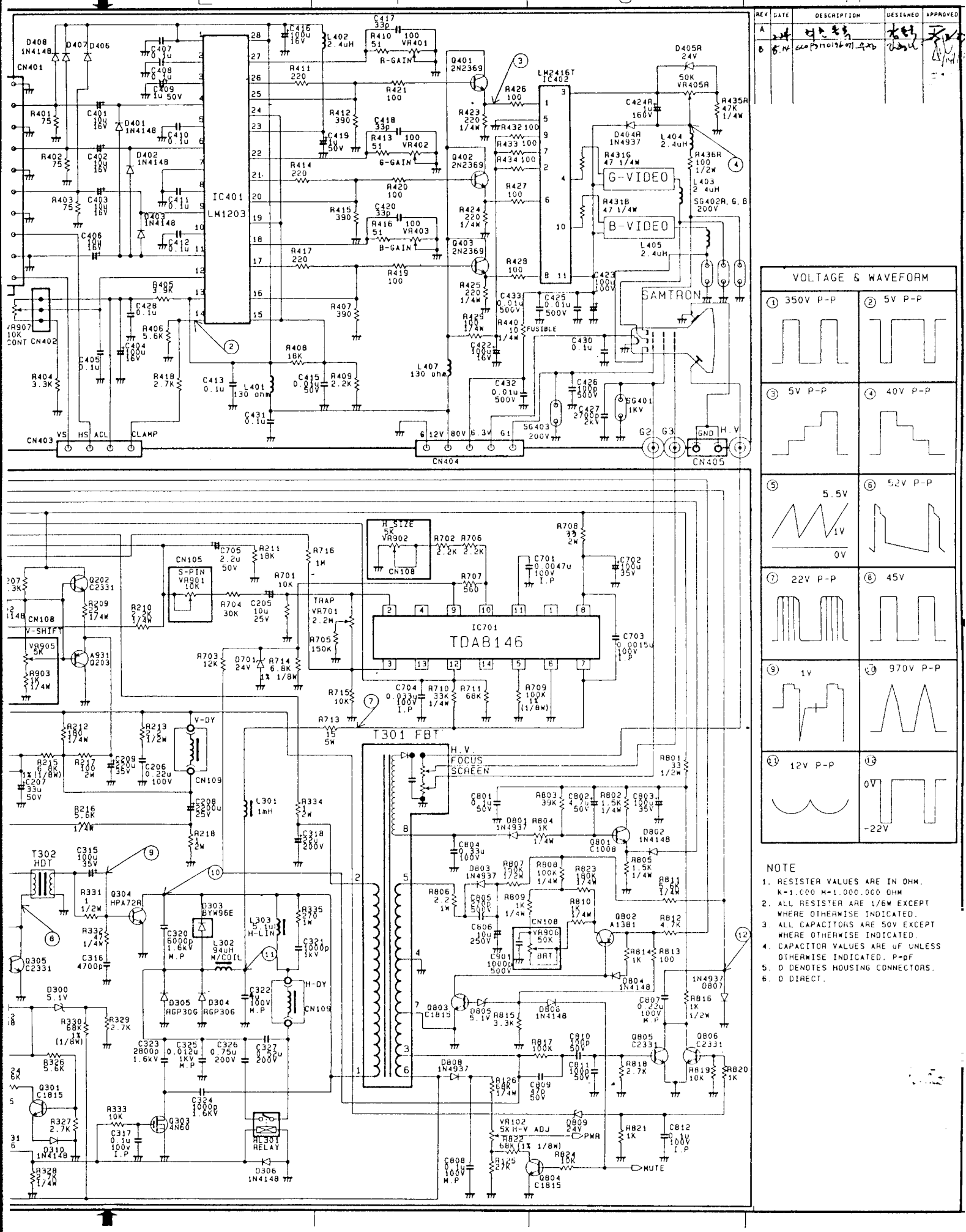
STR50330
IC103
TL082CP
IC104
IC102
7812
IC502
7805
IC201
TDA8172
IC301
TDA9102C
T101
POWER
TRANS
T102
CHOPPER
T301 FBT
T302
HDT
CN401
CN402
CN403
CN404
CN105
CN106
CN107
CN108
CN109
VR907
10K
CONT
VR901
10K
S-PIN
VR902
5K
H_SIZE
VR903
20K
V_SIZE
VR904
50K
H_SHIFT
VR905
5K
V-SHIFT
VR906
20K
V_LINE
VR301
20K
V_HOLD
VR302
20K
H_HOLD
VR401
R-GAIN
VR402
G-GAIN
VR403
B-GAIN
TRAP
VR701
2.2H
AL301
RELAY
LED
D-SW
CLamp
12V
80V
S_PIN
V-DY
H-DY
H-LIN
W/COIL
R-GAIN
G-GAIN
B-GAIN



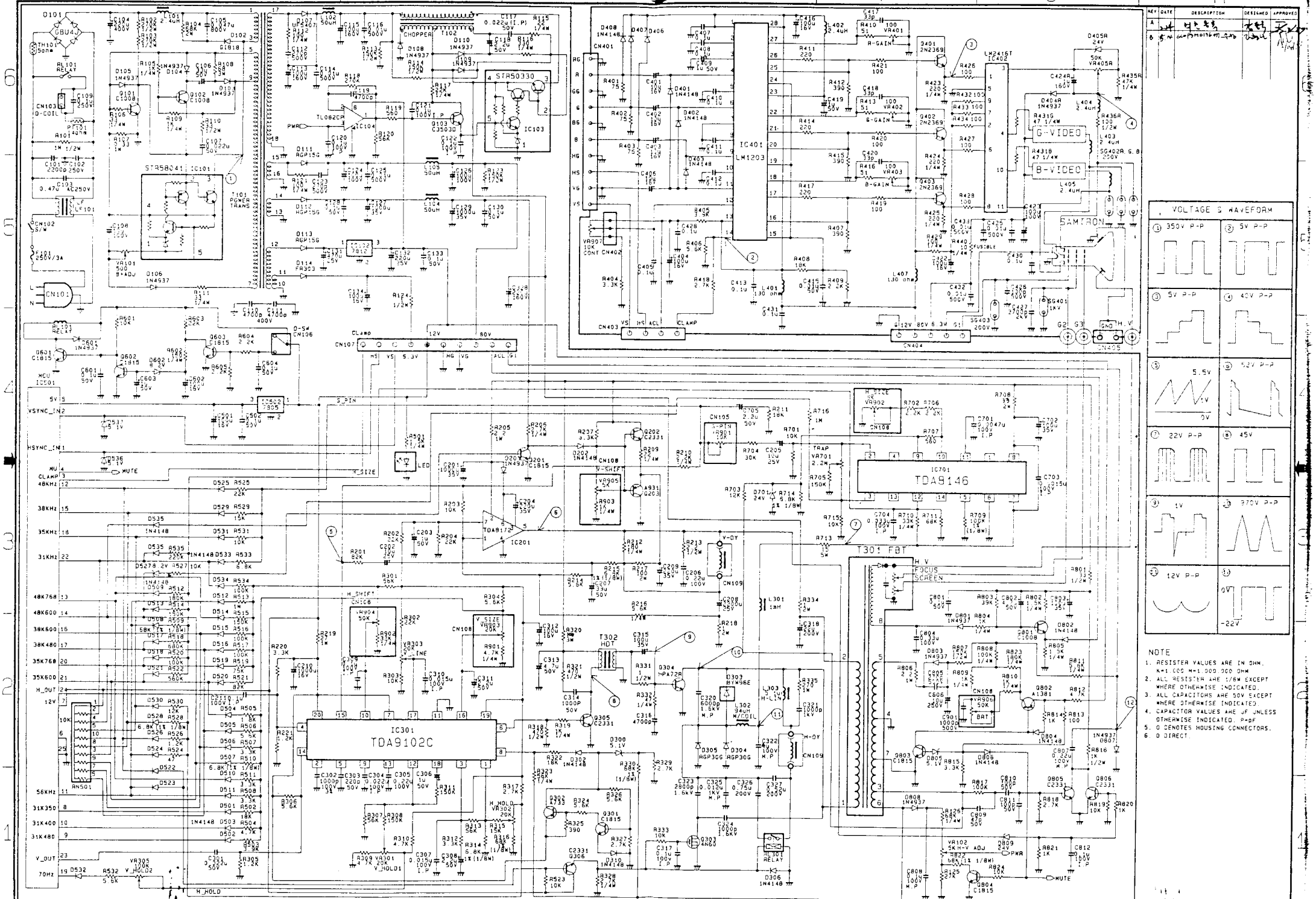
REV	DATE	DESCRIPTION	DESIGNED	APPROVED
A				
B				

VOLTAGE & WAVEFORM

① 350V P-P	② 5V P-P
③ 5V P-P	④ 40V P-P
⑤ 5.5V, 1V, 0V	⑥ 52V P-P
⑦ 22V P-P	⑧ 45V
⑨ 1V	⑩ 970V P-P
⑪ 12V P-P	⑬ 0V, -22V

NOTE

1. RESISTER VALUES ARE IN OHM. K=1,000 M=1,000,000 OHM
2. ALL RESISTER ARE 1/6W EXCEPT WHERE OTHERWISE INDICATED.
3. ALL CAPACITORS ARE 50V EXCEPT WHERE OTHERWISE INDICATED.
4. CAPACITOR VALUES ARE uF UNLESS OTHERWISE INDICATED. P-pF
5. ○ DENOTES HOUSING CONNECTORS.
6. ○ DIRECT.


IC301
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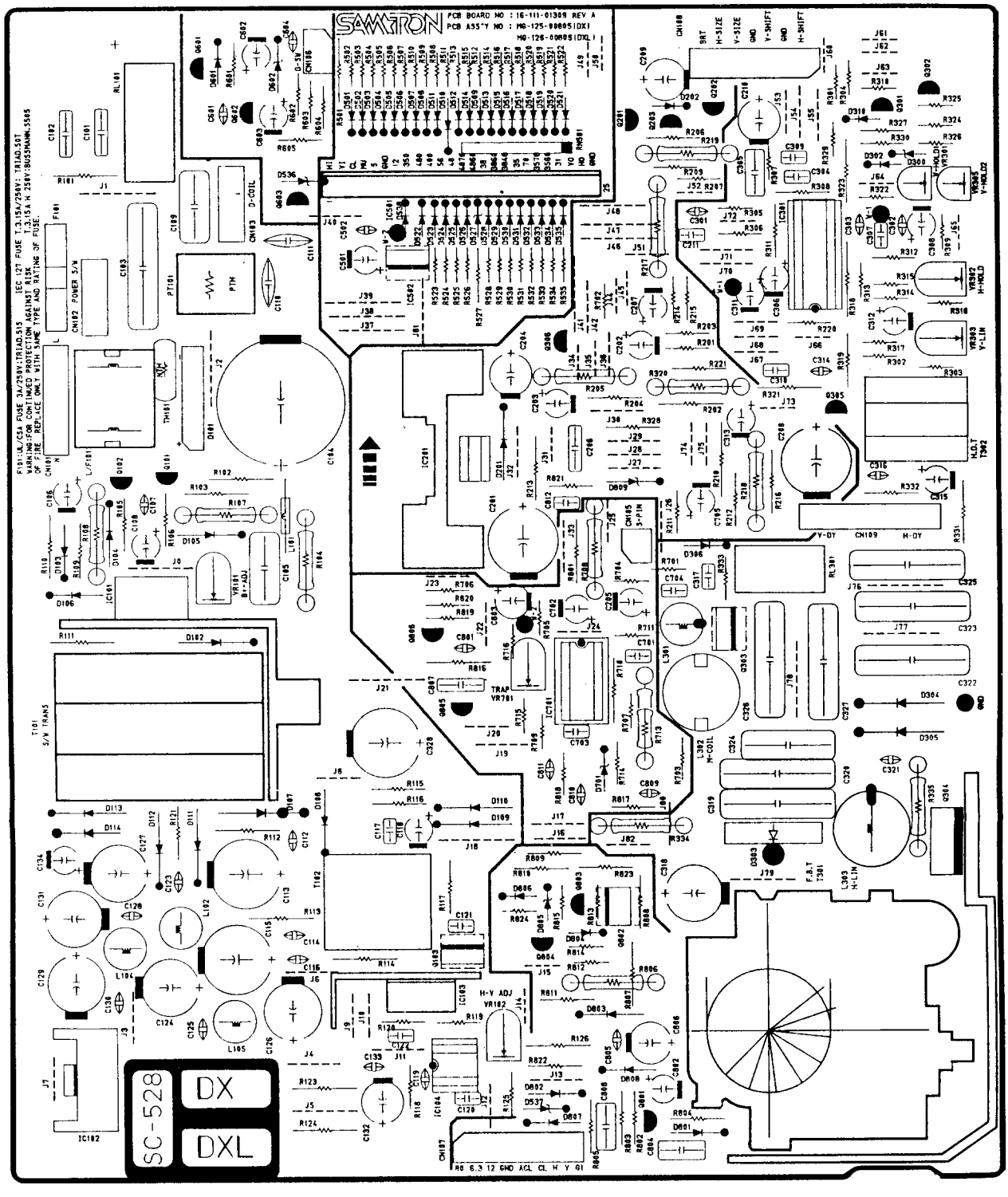
IC401
LM1203
IC701
TDA8146
IC201
TDA8172
T301 FBT
T302 HDT
STR50330
STR58041
IC103
IC101
IC104
TL082CP
CN401
CN402
CN403
CN404
CN405
CN101
CN102
CN103
CN105
CN106
CN107
CN108
CN109
G-VIDEO
B-VIDEO
SAMTRON
H_SHIFT
V_SIZE
V_HOLD
H_HOLD
V_SHIFT
TRAP
FOCUS
SCREEN
MUTE
LED
RELAY
VOLTAGE & WAVEFORM
1 350V P-P
2 5V P-P
3 5V P-P
4 40V P-P
5 5.5V
6 5.2V P-P
7 22V P-P
8 45V
9 1V
10 370V P-P
11 12V P-P
12 0V
-22V
NOTE
1. RESISTER VALUES ARE IN OHM.
K=1,000 M=1,000,000 OHM
2. ALL RESISTER ARE 1/6W EXCEPT WHERE OTHERWISE INDICATED.
3. ALL CAPACITORS ARE 50V EXCEPT WHERE OTHERWISE INDICATED.
4. CAPACITOR VALUES ARE UF UNLESS OTHERWISE INDICATED. P=PF
5. O DENOTES HOUSING CONNECTORS.
6. O DIRECT.

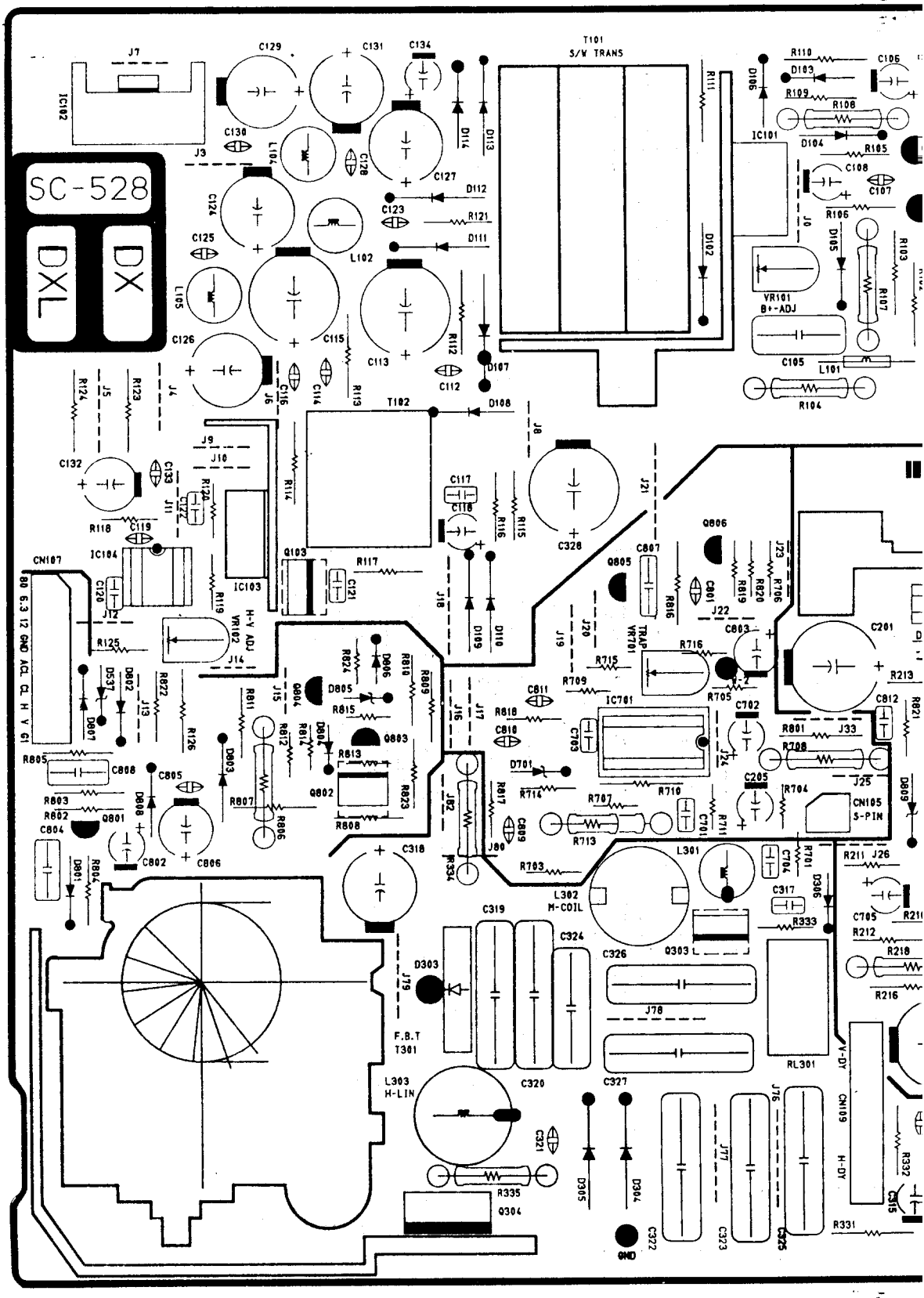
[3] PCB ARTWORK DRAWINGS

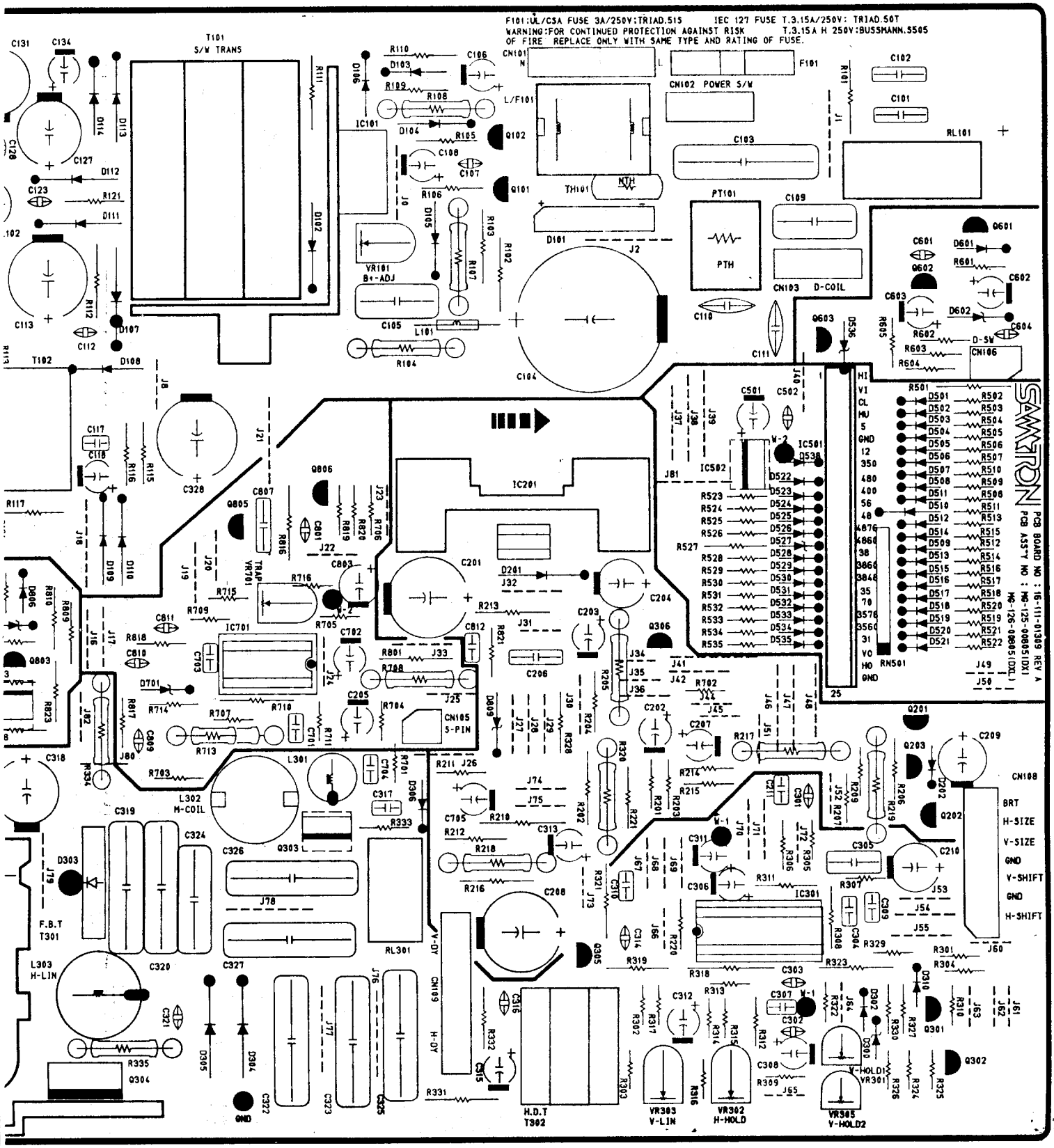
3-1. Main PCB bord



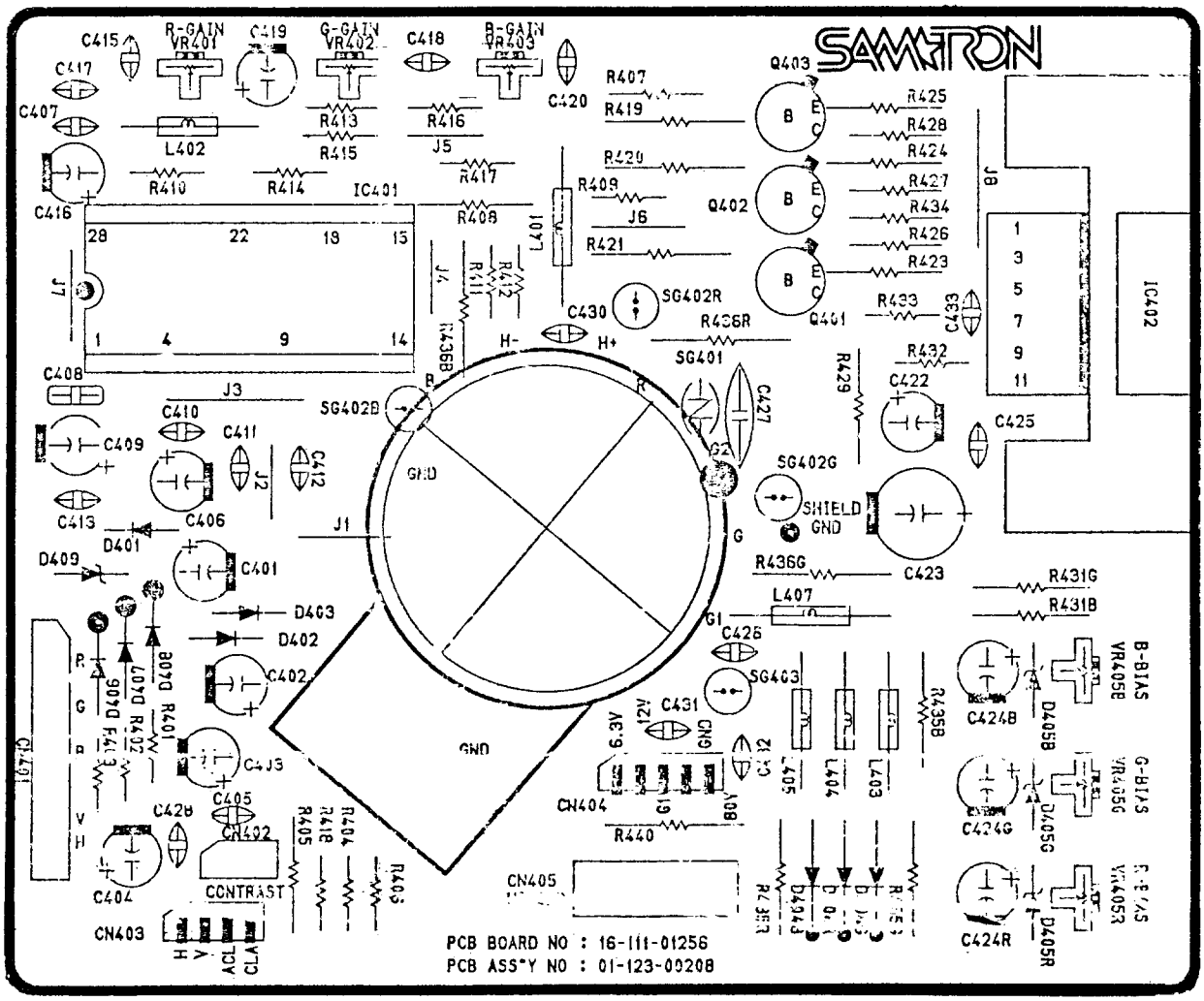
(3) PCB ARTWORK DRAWINGS

3-1. Main PCB bord

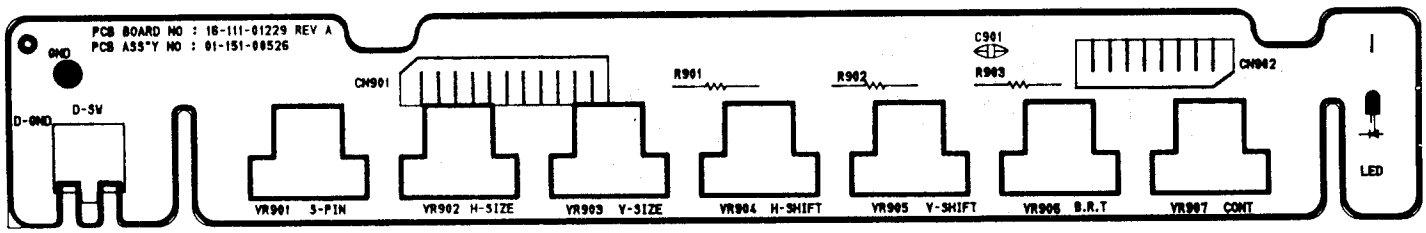



F101:UL/CSA FUSE 3A/250V:TRIAD.515 IEC 127 FUSE T.3.15A/250V: TRIAD.50T
WARNING:FOR CONTINUED PROTECTION AGAINST RISK OF FIRE REPLACE ONLY WITH SAME TYPE AND RATING OF FUSE.
T.3.15A H 250V:BUSSMANN.5505
T101 S/W TRANS
CN101
F101
CN102 POWER S/W
L/F101
TH101
PT101
PTH
CN103 D-COIL
RL101
VR101 B+-ADJ
IC101
IC201
IC501
IC502
IC701
IC301
Q101
Q102
Q201
Q202
Q203
Q301
Q302
Q303
Q304
Q305
Q306
Q601
Q602
Q603
Q701
Q801
Q803
Q805
Q806
T102
T301 F.B.T
T302 H.D.T
L301
L302 M-COIL
L303 H-LIN
RN501
CN105 5-PIN
CN106
CN108
CN109 H-DY
BRT
H-SIZE
V-SIZE
GND
V-SHIFT
GND
H-SHIFT
VR301 V-HOLD1
VR302 H-HOLD
VR303 V-LIN
VR305 V-HOLD2
SAMTRON
PCB BOARD NO : 16-111-01399 REV A
PCB ASS'Y NO : MG-125-00805(DX1)
MG-126-00805(DXL)

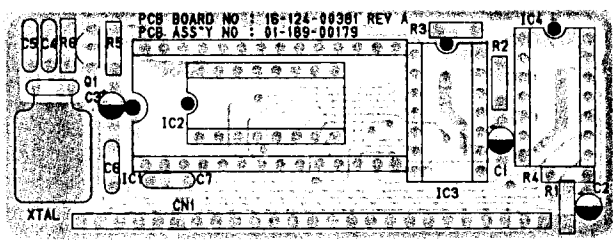
3-2. Socket PCB board



3-3. VR ASS'Y RCB front marking/pattern



3-4. MCU PCB front marking/pattern



8. APPENDIX

[1] Part List

TABLE OF CONTENTS

NO	B.O.M STRUCTURE	ORIGINAL	REMARK
1-1	M6-125-02372	15	SC-528DX 115V
1-2	M6-125-02369	15	SC-528DX 230V
2	MJ-125-01719	18	
3	02-121-01271	2	ASS'Y STAND
4	MG-125-00805	63	
5	01-143-00087	3	SUB ASS'Y ROCKER S/W
6	01-151-00553	16	SUB ASS'Y VOLUME
7	01-191-00167	2	SUB ASS'Y AC SOCKER W/WIRE
8	MA-125-00713	129	
9	01-123-00223	18	SUB ASS'Y CPT SOCKER
10	01-161-00684	5	SUB ASS'Y HEAT SINK
11	01-161-01084	2	SUB ASS'Y HEAT SINK
12	01-161-01149	4	SUB ASS'Y HEAT SINK
13	01-161-01152	4	SUB ASS'Y HEAT SINK
14	01-161-01271	3	SUB ASS'Y HEAT SINK
15	01-161-01312	4	SUB ASS'Y HEAT SINK
16	01-161-00179	19	SUB ASS'Y MISC PCB
17	MA-125-00009	11	A/S ASS'Y SOCKET RADIAL
18	MA-125-00696	24	A/S ASS'Y SOCKET AXIAL
19	01-161-01137	4	SUB ASS'Y HEAT SINK
20	01-162-00048	2	SUB ASS'Y SHIELD COVER

PART LIST

ASS'Y NO	M6-125-02372	MODEL NO	SC-528DX 115V

SEQ	P/N	DESCRIPTION	SPEC	UNIT	Q'TY	ECO NO	CKT NO.
1	MJ-125-01719	COLOR SET CHASSIS ASS'Y	FREE, ANALG, 0.28"	PCS	1.000		
2	02-121-01271	ASS'Y, STAND BASE, SC-528DX(L)	OEM-3357	PCS	1.000		
3	02-141-01404	ASS'Y, MANUAL, USER'S, SC-528DX/DXL		PCS	1.000		
4	19-172-00012	FERRITE SHEET	PST 10*90(FS 200) 3M	PCS	1.500		
5	32-111-02571	PLA, EXT-H, REAR	266*348.4*282.4, ABS, OEM-3357	PCS	1.000		
6	32-611-03606	PLA, DUMMY COVER	D7.9*3.2, ABS, OEM-3357	PCS	2.000		
7	33-191-00051	MS, SPL, PCN, W/P.W, ZPW	M4*12, SWRCH1028AK	PCS	2.000		
8	33-642-00024	PS+, HEX, W/S.W, ZPW	M4.5*24, SWRCH1018AK, WD:16	PCS	1.000		
9	34-111-03315	BOX, SC-528DX, SAMTRON	485*449*445, E200*K200*KA200*K200*K	PCS	1.000		
10	34-211-00461	S/FOAM, L, R	415*470*120, EPS	PCS	1.000		
11	34-311-00577	VINYL BAG, SET, SAMTRON	800*880, HDPE 0.015T, RECYCLING	PCS	1.000		
12	34-311-00592	VINYL BAG, SIGNAL GABLE, SAMTRON	110*200, HDPE 0.05T, RECYCLING	PCS	1.000		
13	35-111-00592	LABEL, BOX, SC-4**, DOUBLE BACKING	120*95, ART PATER	PCS	1.000		
14	35-111-08357	LABEL, PRODUCT, SC-528DX	99.8*49.8, UL/CSA/TUV/GS, OEM-3357	PCS	1.000		
15	36-521-0021B	CORD, POWER, NORMAL, DETACH	SVT, 125V/7A, BK, 6FT, SHIELDED, T MARK	PCS	1.000		

ASS'Y NO	M6-125-02369	MODEL NO	SC-528DX 230V

SEQ	P/N	DESCRIPTION	SPEC	UNIT	Q'TY	ECO NO	CKT NO.
1	MJ-125-01719	COLOR SET CHASSIS ASS'Y	FREE, ANALG, 0.28"	PCS	1.000		
2	02-121-01271	ASS'Y, STAND BASE, SC-528DX(L)	OEM-3357	PCS	1.000		
3	19-172-00012	FERRITE SHEET	PCT 10*90(FS 200) 3M	PCS	1.500		
4	32-111-02571	PLA, EXT-H, REAR	266*348.4*282.4, ABS, OEM-3357	PCS	1.000		
5	32-611-03606	PLA, DUMMY COVER	D7.9*3.2, ABS, OEM-3357	PCS	2.000		
6	33-191-00051	MS, SPL, PCN, W/P.W, ZPW	M4*12, SWRCH1028AK	PCS	2.000		
7	33-642-00024	PS+, HEX, W/S.W, ZPW	M4.5*24, SWRCH1018AK, WD:16	PCS	1.000		
8	34-111-03315	BOX, SC-528DX, SAMTRON	485*449*445, E200*K200*KA200*K200*K	PCS	1.000		
9	34-211-00461	S/FOAM, L, R	415*470*120, EPS	PCS	1.000		
10	34-311-00577	VINYL BAG, SET, SAMTRON	800*880, HDPE 0.015T, RECYCLING	PCS	1.000		
11	34-311-00592	VINYL BAG, SIGNAL GABLE, SAMTRON	110*200, HDPE 0.05T, RECYCLING	PCS	1.000		
12	35-111-08015	LABEL, BOX, SC-4**, DOUBLE BACKING	120*95, ART PATER	PCS	1.000		
13	35-111-08357	LABEL, PRODUCT, SC-528DX	99.8*49.8, UL/CSA/TUV/GS, OEM-3357	PCS	1.000		
14	35-311-03143	MANUAL, USER'S, SC-528DX/DXL	SED	PCS	1.000		
15	36-521-90048	CORD, POWER, NORMAL, DETACH	H05VV-F, 250V, BK, 1830MM, T MARK	PCS	1.000		

ASS'Y NO	MJ-125-01719

SEQ	P/N	DESCRIPTION	SPEC	UNIT	Q'TY	ECO NO	CKT NO.
1	MG-125-00805	PCB AAS'Y	FREE, ANALG, M.V.S	PCS	1.000		
2	01-413-00087	SUB ASS'Y, ROCKER S/W	POWER, 2P, 190MM	PCS	1.000		
3	01-143-00553	SUB ASS'Y, VOLUME	SC-528DX/DXL	PCS	1.000		
4	01-191-00167	SUB ASS'Y, AC SOCKET W/WIRE	240MM	PCS	1.000		
5	01-211-90752	ASS'Y CDT	M36KUT26XX01(FC1), 0.28D, 15', WITH	PCS	1.000		
6	02-121-01283	ASS'Y, BOTTOM BASE, SC-528DX(L)	OEM-3357	PCS	1.000		
7	02-121-01295	ASS'Y, FRONT, SC-528DX	OEM-3357	PCS	1.000		
8	17-224-00179	COIL, DEGAUSSING	90+,1T, 0.4 D, 12.4 OHM, 995 MM, 6L	PCS	1.000		
9	31-211-02107	MET-I, PRS, FRAME	343*98.5*34.2, EGI 1.2T	PCS	1.000		
10	32-311-00012	CABLE TIE	L101.6*W25*T1	PCS	2.000		
11	32-611-03182	PLA, EDGAUSS S/W CAP	7.5*21.1*13, ABS, OEM-22596	PCS	1.000		

ASS'Y NO	MJ-125-01719

SEQ	P/N	DESCRIPTION	SPEC	UNIT	Q'TY	ECO NO	CKT NO.
12	33-168-00024	MS+, BND, W/T/L/W, ZPW	M4*8, SWRCH1018AK	PCS	1.000		
13	33-191-00051	MS, SPL, PCN, W/P.W, ZPW	M4*12, SWRCH1018AK	PCS	2.000		
14	33-425-00012	TS+, BND, W/P.W, B. ZPW	M3*8, SWRCH1018AK	PCS	2.000		
15	33-485-00012	TS+, OVAL, 2, ZPW	M3*12, SWRCH1018AK	PCS	2.000		
16	33-642-00024	PS+, HEX, W.S.W, ZPW	M4.5*24, SWRCH1018AK, WK:16	PCS	4.000		
17	36-437-00339	BRAID WIRE CDT GND	685*260*2*115MM, 2P, 16*3*0.16	PCS	1.000		
18	36-541-00618	CABLE, SIGNAL, NON-DET	15P, 1720MM, SC-528DX(L), BK, MOLD	PCS	1.000		

ASS'Y NO	02-121-01271

SEQ	P/N	DESCRIPTION	SPEC	UNIT	Q'TY	ECO NO	CKT NO.
1	32-611-03538	PLA, STAND	250*250*41.5, ABS, OEM-3357	PCS	1.000		
2	39-119-00087	RUBBER FOOT, HEAD START, SC-431VII	D20.4*6.9, GRAY	PCS	4.000		

ASS'Y NO	MG-125-00805

SEQ	P/N	DESCRIPTION	SPEC	UNIT	Q'TY	ECO NO	CKT NO.
1	MA-125-00713	A/S ASS'Y	FREE, ANALG, M.V.S	PCS	1.000		
2	01-123-00223	SUB ASS'Y, CPT SOCKET	SC-528DX/DXL	PCS	1.000		
3	01-161-00684	SUB ASS'Y, HEAT SINK	SC-431VII/EII/VS, STR58041, 90*57*60	PCS	1.000		
4	01-161-01084	SUB ASS'Y, HEAT SINK	BYW96E, 54.8*25*5.3	PCS	1.000		
5	01-161-01149	SUB ASS'Y, HEAT SINK	TDA8172, SC-4**TX/VX	PCS	1.000		
6	01-161-01152	SUB ASS'Y, HEAT SINK	HPA72R, SC-4**TX/VX	PCS	1.000		
7	01-161-01271	SUB ASS'Y, HEAT SINK	MC7812CT, 23.5*15*30, WH	PCS	1.000		
8	01-161-01312	SUB ASS'Y, HEAT SINK	STR50330(LF501), 50*24.5*0.8	PCS	1.000		
9	01-189-00179	SUB ASS'Y, MISC PCB	SC-528DX/DXL, MCU PCB	PCS	1.000		
10	11-119-0227B	CAP, AL-ELECT, GP	220UF, 20%, 160V, -40/85'C, RB, SMALL	PCS	1.000		C328
11	11-233-02277	CAP, AL-ELECT	220UF, 20%, 400V, -40/85'C, PT	PCS	1.000		C104
12	12-243-01021	CAP, DISC CERAMIC, CK	1000PF, 10%, 1KV, -25/85'C, EPOXY, RB	PCS	1.000		C321
13	13-152-01045	CAP, METALZ-POLYESTER	0.1UF, 10%, 100V, RB, CF93MM, OEM	PCS	1.000		C808
14	13-152-02241	CAP, METALZ-POLYESTER	0.22UF, 10%, 100V, RB, CF93MM, OEM	PCS	2.000		C206 C807
15	13-152-03342	CAP, METALZ-POLYESTER	0.33UF, 10%, 100V, RB	PCS	1.000		C804
16	13-153-91045	CAP, METALZ-POLYESTER	0.1UF, 10%, 250VAC, RB	PCS	1.000		C109
17	13-154-92226	CAP, METALZ-POLYESTER	2200PF, 10%, 250VAC, RB	PCS	2.000		C101 C102
18	13-154-94746	CAP, METALZ-POLYESTER	0.47UF, 10%, 250VAC, RB	PCS	1.000		C103
19	13-315-01232	CAP, PP	0.012UF, 5%, 1KV, -25/85'C, RB	PCS	1.000		C325
20	13-317-01021	CAP, PP, HIGH-VOL	1000PF, 5%, 1.6KV, RB	PCS	1.000		C324
21	13-317-02823	CAP, PP, HIGH-VOL	2800PF, 5%, 1.6KV, RB	PCS	1.000		C323
22	13-317-06024	CAP, PP, HIGH-VOL	6000PF, 1.6KV, 5%, -25/85'C, RB	PCS	1.000		C320
23	13-341-01021	CAP, PP	0.001UF, 3%, 100V, RB	PCS	1.000		C302
24	13-352-05241	CAP, METALZ-PP, GP	0.52UF, 5%, 200V, RB	PCS	1.000		C327
25	13-352-07547	CAP, METALZ-PP, GP	0.75UF, 5%, 200V, RB	PCS	1.000		C326
26	13-355-04734	CAP, METALZ-PP, GP	0.047UF, 5%, 800V, RB, CF93MP, OEM	PCS	1.000		C105
27	13-356-02054	CAP, METALZ-PP	2UF, 5%, 100V, RB	PCS	1.000		C322
28	14-352-01018	RES, METAL OXIDE, AB	100OHM, 3W, 5%, FORMING	PCS	1.000		R320
29	14-352-06805	RES, METAL OXIDE, AB	68OHM, 3W, 5%, FORMING	PCS	1.000		R108
30	14-641-0R336	RES, WIRE WOUND, AB	0.33OHM, 1W, 5%	PCS	1.000		R107
31	14-732-01508	RES, CEMENT, RB	15OHM, 5W, 5%	PCS	1.000		R713
32	14-911-00259	RES, NETWORK, BUSSED, SIP	10K OHM, 5%, 1/8W, 10P	PCS	1.000		RN501

ASS'Y NO	MG-125-00805

SEQ	P/N	DESCRIPTION	SPEC	UNIT	Q'TY	ECO NO	CKT NO.
33	15-212-00048	VAR, NO-HANDLE, CAP, V-TYPE	2.2M OHM, B, 0.15W, SR19R-1	PCS	1.000		VR701
34	15-621-90087	THERMISTOR, PTC	14 OHM, 20%, 220V, 2PIN	PCS	1.000		PT101
35	15-622-90024	THERMISTOR, NTC	5 OHM, 3.4A. 2.4W	PCS	1.000		TH101
36	17-116-00327	TRANS, POWER, SWITCHING	115/230V	PCS	1.000		T101
37	17-117-00024	COIL, TRANS	800UH/2.35MH	PCS	1.000		T102
38	17-122-90194	FBT, COLOR	Y262393, 56KHZ, VLMF	PCS	1.000		T301
39	17-132-00247	COIL, TRANS, H-DRIVE	10MH/70UH	PCS	1.000		T302
40	17-211-00223	COIL, MODULATION	LITZ, USTC, 88UH-100UH	PCS	3.000		L302
41	17-222-00087	COIL, CHOKE	50UH+-15%	PCS	1.000		L102 L104 L105
42	17-222-00286	COIL, CHOKE	1MH, 15%	PCS	1.000		L301
43	17-226-00286	COIL, H-LIN, FIX	5.1UH, 25%	PCS	1.000		L303
44	17-311-00274	FILTER, LINE	40MH MIN	PCS	1.000		LF101
45	19-103-00063	FUSE TIMELAG WITHOUT LEAD	3A, 250V, 5.20*20, 51S	PCS	1.000		F101
46	19-121-90024	RELAY	12VDC, -, -, G6B1114P-FD-US	PCS	1.000		RL301
47	19-121-90036	RELAY	12VDC/250VAC, 10A	PCS	1.000		RL101
48	21-115-00116	TR NPN TO-126	KSC3503D, 0.1A, 300V, 7W(TC), VD O/P, M	PCS	1.000		Q103
49	21-131-00036	FET NM. CHANNEL	SSP4N60, 4.0A, 600V, 75W(TC), TO-22	PCS	1.000		Q303
50	22-111-90075	RECTIFIER DIODE FR	2.5A, 400V, RGP30G	PCS	2.000		D304 D305
51	22-111-90366	RECTIFIER DIODE FR	3A, 200V, FR303G(S)	PCS	1.000		D114
52	22-111-90419	RECTIFIER DIODE FR	3A, 800V, 75NS	PCS	1.000		D107
53	22-113-90051	RECTIFIER DIODE BR	4A, 600V	PCS	1.000		D101
54	23-312-00128	IC. REGULATOR, TO-220	7805C, 1.5A, 5V	PCS	1.000		IC502
55	31-211-01639	MET-I, PRS, PCB BRKT, SC-431VII/EII	13*13*20, SBHG1	PCS	1.000		
56	31-211-02093	MET-I, PRS, MAIN CHASSIS	288*264.5*34.8, EGI 1.0T	PCS	1.000		
57	33-425-00012	TS+, BND, W/P, W, B, ZPW	M3*8, SWRCH1018AK	PCS	9.000		
58	33-612-00247	PS+, PAN, ZPW	M4*12, SWRCH1018AK	PCS	1.000		
59	35-111-06378	LABEL, BAR CODE	65*20	PCS	1.000		
60	36-211-00434	WIREFORM, UL1007-AWG22	TCST, 1ST, 17x0.16, PVC, R, 65MM, DT	PCS	1.000		W-1
61	36-211-00446	WIREFORM, UL1007-AWG22	TCST, 1ST, 17x0.16, PVC, Y, 135MM, DT	PCS	1.000		W-2
62	36-437-00099	BRAID WIRE, RING TER	D5,110MM	PCS	1.000		
63	36-615-00075	CONNECTOR SHROUDED HEADER	2.5, ST, 11P, 5267-11A	PCS	2.000		CN107 CN108

ASS'Y NO	01-143-00087

SEQ	P/N	DESCRIPTION	SPEC	UNIT	Q'TY	ECO NO	CKT NO.
1	19-132-00051	ROCKER SWITCH	5A/80A 250VAC, NO CAP	PCS	1.000		
2	36-412-00407	WIRE, CONN/HOUSING	190MM, 2P, GY, 10, R, 1672	PCS	1.000		
3	39-422-00024	TUBE-SHRINK, WHT	D4, POLY-OLEFIN	M	.030		

ASS'Y NO	01-151-00553

SEQ	P/N	DESCRIPTION	SPEC	UNIT	Q'TY	ECO NO	CKT NO.
1	12-334-01021	CAP, DISC CERAMIC, CK45	1000PF, 10%, 500V, -25/85'C, RT, HDC	PCS	1.000		C901
2	14-134-01021	RES, CARBON, AT	1K OHM, 1/4W, 5%	PCS	1.000		R903
3	14-134-03339	RES, CARBON, AT	33K OHM, 1/4W, 5%	PCS	1.000		R902
4	14-134-04722	RES, CARBON, AT	4.7K OHM, 1/4W, 5%	PCS	1.000		R901
5	15-351-00063	VAR, HANDLE, PCB-MOUNT, V-TYPE	5K OHM, B, 0.1W, 20F	PCS	2.000		VR902 VR905
6	15-351-00075	VAR, HANDLE, PCB-MOUNT, V-TYPE	10K OHM, B, 0.1W, 20F	PCS	2.000		VR901 VR907
7	15-351-00087	VAR, HANDLE, PCB-MOUNT, V-TYPE	20K OHM, B, 0.1W, 20F	PCS	1.000		VR903

ASS'Y NO	01-151-00553

SEQ	P/N	DESCRIPTION	SPEC	UNIT	Q'TY	ECO NO	CKT NO.
8	15-351-00099	VAR, HANDLE, PCB-MOUNT, V-TYPE	50K OHM, B, 0.1W, 20F	PCS	2.000		VR904 VR906
9	16-111-01229	PCB, VOLUME	207*31, FR-1, 1.6T	PCS	1.000		
10	19-131-90128	PUSH SWITCH	DPDT, 0.3A, 30VDC, 6PIN	PCS	1.000		D-SW
11	22-152-00075	LED, GREEN	25MA, 75MW, SLR-34MG3, ROUND	PCS	1.000		LED
12	32-611-03514	PLA, V/R KNOB	D18*11.5, ABS, OEM-3357	PCS	7.000		VR901-VR907
13	36-412-00725	WIRE, CONN/HOUSING	170MM, 11P, W, 2.5, 1007#26	PCS	1.000		CN901
14	36-415-00366	WIRE, CONN/HOUSING	420/140/270MM, 8P, W, 2.5, 1007#26	PCS	1.000		CN902
15	36-431-00104	WIRE, RING TER, SINGLE	BK, D5, 53MM	PCS	1.000		D-GND
16	36-431-00208	WIRE, RING TER, SINGLE	G/Y, D4.3, 150MM	PCS	1.000		GND

ASS'Y NO	01-191-00167

SEQ	P/N	DESCRIPTION	SPEC	UNIT	Q'TY	ECO NO	CKT NO.
1	17-314-00063	FILTER, EMI SOCKET	250V/3A, 473PF(X1), 222PF, 1.2MH, SEV	PCS	1.000		
2	39-422-00024	TUBE-SHRINK, WHT	D4, POLY-OLEFIN	M	.040		

ASS'Y NO	MA-125-000713

SEQ	P/N	DESCRIPTION	SPEC	UNIT	Q'TY	ECO NO	CKT NO.
1	11-192-0107B	CAP, AL-ELECT, GP	100UF, 20%, 16V, -40/85'C, RT, SMALL	PCS	4.000		C134 C312 C501 C602
2	11-192-01084	CAP, AL-ELECT, GP	1000UF, 16V, 20%, -40/85'RT	PCS	1.000		C210
3	11-193-0106B	CAP, AL-ELECT, GP	10UF, 20%, 25V, -40/85'C, RT, SMALL	PCS	2.000		C202 C205
4	11-193-02277	CAP, AL-ELECT, GP	220UF, 20%, 25V, -40/85'C, RT	PCS	1.000		C132
5	11-193-02289	CAP, AL-ELECT, GP	2200UF, 20%, 25V, -40/85'C, RT	PCS	1.000		C208
6	11-193-04773	CAP, AL-ELECT, GP	470UF, 20%, 25V, -40/85'C, RT	PCS	1.000		C131
7	11-194-01072	CAP, AL-ELECT, GP	100UF, 20%, 35V, -40/85'C, RT	PCS	3.000		C315 C702 C803
8	11-194-01084	CAP, AL-ELECT, GP	1000UF, 20%, 35V, -40/85'C, RT	PCS	3.000		C127 C129 C201
9	11-194-02277	CAP, AL-ELECT, GP	220UF, 20%, 35V, -40/85'C, RT	PCS	2.000		C204 C209
10	11-195-0105B	CAP, AL-ELECT, GP	1UF, 20%, 50V, -40/85'C, RT, SMALL	PCS	3.000		C203 C306 C603
11	11-195-02253	CAP, AL-ELECT, GP	2.2UF, 20%, 50V, -40/85'C, RT	PCS	4.000		C118 C308 C311 C705
12	11-195-0336B	CAP, AL-ELECT, GP	33UF, 20%, 50V, -40/85'C, RT, SMALL	PCS	2.000		C106 C207
13	11-195-0475B	CAP, AL-ELECT, GP	4.7UF, 20%, 50V, -40/85'C, RT, SMALL	PCS	2.000		C313 C802
14	11-196-0106B	CAP, AL-ELECT, GP	10UF, 20%, 100V, -40/85'C, RT, SMALL	PCS	1.000		C108
15	11-196-01072	CAP, AL-ELECT, GP	100UF, 100V, 20%, -40/85'C, RT	PCS	2.000		C124 C126
16	11-197-01072	CAP, AL-ELECT, GP	100UF, 20%, 160V, -40/85'C, RT	PCS	2.000		C113 C115
17	11-198-01069	CAP, AL-ELECT, GP	10UF, 20%, 250V, -40/85'C, RT	PCS	1.000		C806
18	11-199-02265	CAP, AL-ELECT, GP	22UF, 20%, 200V, -40/85'C, RT	PCS	2.000		C318
19	12-182-02214	CAP, DISC CERAMIC, CC	220PF, 5%, 50V, -25/85'C, RT	PCS	1.000		C303
20	12-182-04707	CAP, DISC CERAMIC, CC	47PF, 5%, 50V, -25/85'C, RT	PCS	1.000		C809
21	12-191-01018	CAP, DISC CERAMIC, CC45	100PF, 10%, 50V, -25/85'C, RT, TC	PCS	2.000		C810 C811
22	12-307-04722	CAP, DISC CERAMIC, CK	4700PF, 20%, 400VAC, -25/85'C, RT	PCS	2.000		C110 C111
23	12-331-01021	CAP, DISC CERAMIC, CK	1000PF, 10%, 50V, -25/85'C, RT	PCS	1.000		C314
24	12-331-04722	CAP, DISC CERAMIC, CK	4700PF, 10%, 50V, -25/85'C, RT	PCS	2.000		C119 C316
25	12-334-02716	CAP, DISC CERAMIC, CK-45	270PF, 10%, 500V, -25/85'C, RT	PCS	3.000		C112 C123 C805
26	12-335-01033	CAP, DISC CERAMIC, CK	0.01UF, -20/80%, 500V, -25/85'C, RT	PCS	3.000		C114 C116 C125
27	12-371-01045	CAP, DISC CERAMIC, CK-45	0.1UF, -20/80%, 50V, -25/85'C, RT	PCS	7.000		C128 C130 C133 C502 C601 C604 C801
28	12-371-02238	CAP, DISC CERAMIC, CK45	0.022RF, -20/80%, 50V, -25/85'C, RT, HD	PCS	2.000		C107 C301
29	13-126-01045	CAP, IND-POLYESTER	0.1UF, 10%, 100V, RT, CQ92MT	PCS	7.000		C120 C121 C122 C211 C309 C317 C812

ASS'Y NO	MA-125-00713

SEQ	P/N	DESCRIPTION	SPEC	UNIT	Q'TY	ECO NO	CKT NO.
30	13-126-01523	CAP, IND-POLYESTER	0.0015UF, 10%, 100V, RT, CQ92MT	PCS	1.000		C703
31	13-126-01535	CAP, IND-POLYESTER	0.015UF, 10%, 100V, RT	PCS	2.000		C307 C310
32	13-126-02238	CAP, IND-POLYESTER	0.022UF, 10%, 100V, −, RT	PCS	2.000		C117 C304
33	13-126-03339	CAP, IND-POLYESTER	0.033UF, 10%, 100V, RT, CQ92MT	PCS	1.000		C704
34	13-126-04722	CAP, IND-POLYESTER	0.0047UF, 10%, 100V, RT	PCS	1.000		C701
35	13-162-0224B	CAP, METALZ-POLYESTER	0.22UF, 100V, 10%, RT	PCS	1.000		C305
36	14-121-01018	RES, CARBON, AT	100 OHM, 1/6W, 5%	PCS	1.000		R813
37	14-121-01021	RES, CARBON, AT	1K OHM, 1/6W, 5%	PCS	3.000		R814 R820 R821
38	14-121-01033	RES, CARBON, AT	10K OHM, 1/6W, 5%	PCS	11.000		R203 R303 R333 R523 R527 R531 R601 R701 R715 R819 R824
39	14-121-01045	RES, CARBON, AT	100K OHM, 1/6W, 5%	PCS	5.000		R516 R517 R520 R534 R817
40	14-121-01057	RES, CARBON, AT	1M OHM, 1/6W, 5%	PCS	2.000		R513 R716
41	14-121-01229	RES, CARBON, AT	1.2K OHM, 1.6W, 5%	PCS	3.000		R221 R305 R526
42	14-121-01232	RES, CARBON, AT	12K OHM, 1/6W, 5%	PCS	2.000		R530 R703
43	14-121-01535	RES, CARBON, AT	15K OHM, 1/6W, 5%	PCS	2.000		R315 R529
44	14-121-01547	RES, CARBON, AT	150K OHM, 1/6W, 5%	PCS	5.000		R308 R311 R514 R515 R705
45	14-121-01826	RES, CARBON, AT	1.8K OHM, 1/6W, 5%	PCS	1.000		R505
46	14-121-01838	RES, CARBON, AT	18K OHM, 1/6W, 5%	PCS	3.000		R211 R322 R502
47	14-121-01841	RES, CARBON, AT	180K OHM, 1/6W, 5%	PCS	1.000		R512
48	14-121-02226	RES, CARBON, AT	2.2K OHM, 1/6W, 5%	PCS	4.000		R604 R605 R702 R706
49	14-121-02238	RES, CARBON, AT	22K OHM, 1/6W, 5%	PCS	5.000		R202 R204 R302 R525 R603
50	14-121-02241	RES, CARBON, AT	220K OHM, 1/6W, 5%	PCS	1.000		R535
51	14-121-02728	RES, CARBON, AT	2.7K OHM, 1/6W, 5%	PCS	4.000		R317 R327 R329 R818
52	14-121-02731	RES, CARBON, AT	27K OHM, 1/6W, 5%	PCS	1.000		R125
53	14-121-02743	RES, CARBON, AT	270K OHM, 1/6W, 5%	PCS	1.000		R118
54	14-121-03036	RES, CARBON, AT	30K OHM, 1/6W, 5%	PCS	1.000		R704
55	14-121-03327	RES, CARBON, AT	3.3K OHM, 1/6W, 5%	PCS	7.000		R207 R220 R312 R507 R508 R511 R815
56	14-121-03912	RES, CARBON, AT	390 OHM, 1/6W, 5%	PCS	1.000		R325
57	14-121-03924	RES, CARBON, AT	3.9K OHM, 1/6W, 5%	PCS	1.000		R503
58	14-121-03936	RES, CARBON, AT	39K OHM, 1/6W, 5%	PCS	1.000		R803
59	14-121-04707	RES, CARBON, AT	47 OHM, 1/6W, 5%	PCS	1.000		R524
60	14-121-04722	RES, CARBON, AT	4.7K OHM, 1/6W, 5%	PCS	4.000		R309 R310 R504 R812
61	14-121-05612	RES, CARBON, AT	560 OHM, 1/6W, 5%	PCS	2.000		R119 R707
62	14-121-05624	RES, CARBON, AT	5.6K OHM, 1/6W, 5%	PCS	7.000		R214 R304 R306 R324 R326 R506 R532
63	14-121-05636	RES, CARBON, AT	56K OHM, 1/6W, 5%	PCS	4.000		R120 R301 R307 R313
64	14-121-05648	RES, CARBON, AT	560K OHM, 1/6W, 5%	PCS	1.000		R522
65	14-121-06844	RES, CARBON, AT	680K ASS'Y, 1/6W, 5%	PCS	1.000		R518
66	14-121-07535	RES, CARBON, AT	75K OHM, 1/6W, 5%	PCS	1.000		R519
67	14-121-08238	RES, CARBON, AT	82K OHM, 1/6W, 5%	PCS	2.000		R201 R521
68	14-134-01018	RES, CARBON, AT	100 OHM, 1/4W, 5%	PCS	2.000		R112 R121
69	14-134-10121	RES, CARBON, AT	1K OHM, 1/4W, 5%	PCS	6.000		R105 R109 R319 R804 R809 R810
70	14-134-01045	RES, CARBON, AT	100K OHM, 1/4W, 5%	PCS	1.000		R808

ASS'Y NO	MA-125-00713

SEQ	P/N	DESCRIPTION	SPEC	UNIT	Q'TY	ECO NO	CKT NO.
71	14-134-01511	RES, CARBON, AT	150 OHM, 1/4W, 5%	PCS	1.000		R602
72	14-134-01523	RES, CARBON, AT	1.5K OHM, 1/4W, 5%	PCS	3.000		R501 R802 R805
73	14-134-01814	RES, CARBON, AT	180 OHM, 1/4W, 5%	PCS	1.000		R212
74	14-134-01841	RES, CARBON, AT	180K OHM, 1/4W, 5%	PCS	1.000		R823
75	14-134-02202	RES, CARBON, AT	22 OHM, 1/4W, 5%	PCS	2.000		R115 R209
76	14-134-02226	RES, CARBON, AT	2.2K OHM, 1/4W, 5%	PCS	1.000		R210
77	14-134-02238	RES, CARBON, AT	22K OHM, 1/4W, 5%	PCS	1.000		R117
78	14-134-02728	RES, CARBON, AT	2.7K OHM, 1/4W, 5%	PCS	2.000		R206 R328
79	14-134-03303	RES, CARBON, AT	33 OHM, 1/4W, 5%	PCS	2.000		R106 R111
80	14-134-03315	RES, CARBON, AT	330 OHM, 1/4W, 5%	PCS	1.000		R116
81	14-134-13339	RES, CARBON, AT	33K OHM, 1/4W, 5%	PCS	1.000		R710
82	14-134-04707	RES, CARBON, AT	47 OHM, 1/4W, 5%	PCS	1.000		R332
83	14-134-05624	RES, CARBON, AT	5.6K OHM, 1/4W, 5%	PCS	2.000		R216 R811
84	14-134-05636	RES, CARBON, AT	56K OHM, 1/4W, 5%	PCS	1.000		R323
85	14-134-06832	RES, CARBON, AT	68K OHM, 1/4W, 5%	PCS	1.000		R126
86	14-142-01R01	RES, CARBON, AT	1 OHM, 1/2W, 5%	PCS	2.000		R124 R331
87	14-142-01021	RES, CARBON, AT	1K OHM, 1/2W, 5%	PCS	1.000		R816
88	14-142-01057	RES, CARBON, AT	1M OHM, 1/2W, 5%	PCS	1.000		R101
89	14-142-01547	RES, CARBON, AT	150K OHM, 1/2W, 5%	PCS	4.000		R113 R114 R123 R807
90	14-142-02R22	RES, CARBON, AT	2.2 OHM, 1/2W, 5%	PCS	1.000		R213
91	14-142-02743	RES, CARBON, AT	270K OHM, 1/2W, 5%	PCS	2.000		R102 R103
92	14-142-03303	RES, CARBON, AT	33 OHM, 1/2W, 5%	PCS	2.000		R110 R801
93	14-142-04719	RES, CARBON, AT	470 OHM, 1/2W, 5%	PCS	2.000		R318 R321
94	14-336-02R2B	RES, METAL OXIDE, AT	2.2 OHM, 1W, 5%, 63MM TAPING	PCS	2.000		R205 R806
95	14-336-0270B	RES, METAL OXIDE, AT	27 OHM, 1W, 5%, 63MM TAPING	PCS	1.000		R219
96	14-336-0271B	RES, METAL OXIDE, AT	270 OHM, 1W, 5%, 63MM TAPING	PCS	1.000		R335
97	14-346-01R01	RES, METAL OXIDE, AT	1 OHM, 2W, 5%, 63MM TAPING	PCS	2.000		R218 R334
98	14-346-01018	RES, METAL OXIDE, AT	100 OHM, 2W, 5%, 63MM TAPING	PCS	2.000		R217 R708
99	14-346-06832	RES, METAL OXIDE, AT	68K OHM, 2W, 5%, 63MM TAPING	PCS	1.000		R104
100	14-413-01045	RES, METAL, AT	100K OHM, 1/8W, 1%	PCS	1.000		R709
101	14-413-06829	RES, METAL, AT	6.8K OHM, 1/8W, 1%	PCS	6.000		R215 R314 R510 R528 R533 R714
102	14-413-06832	RES, METAL, AT	68K OHM, 1/8W, 1%	PCS	5.000		R316 R330 R509 R711 R822
103	15-272-90036	VAR, NO-HANDLE, CAP, V-TYPE, RT	500 OHM, B, 0.1W	PCS	1.000		VR101
104	15-272-90075	VAR, NO-HANDLE, CAP, V-TYPE, RT	5K OHM, B, 0.1W	PCS	1.000		VR102
105	15-272-90099	VAR, NO-HANDLE, CAP, V-TYPE, RT	20K OHM, B, 0.1W	PCS	3.000		VR301 VR302 VR303
106	15-272-90116	VAR, NO-HANDLE, CAP, V-TYPE, RT	100K OHM, B, 0.1W	PCS	1.000		VR305
107	16-111-01309	PCB, MAIN, SC-528DX/DXL	277 * 233, FR-1, 1.6T	PCS	1.000		
108	17-313-00063	FILTER, CORE	2.4UH, 5.5MM, BEAD, 0.032 OHM, CGA/VII	PCS	1.000		L101
109	19-113-90087	FUSE CLIP, TAPPING TYPE	250V, 7.5A, D5.2. 2 * 2.8	PCS	2.000		F101
110	21-114-00012	TR NPN TO-92	KSC945CY, 150MA, 60V, 250MV, AF AMF/OS	PCS	7.000		Q201 Q301 Q601 Q602 Q603 Q803 Q804
111	21-114-00036	TR NPN TO-92	KSC1008Y, 0.7A, 80V, 800MA, LF AMP	PCS	3.000		Q101 Q102 Q801
112	21-114-00116	TR NPN TO-92	KSC2331, 700MA, 80V, 1.0W, LF AMP	PCS	5.000		Q202 Q305 Q306 Q805 Q806
113	21-124-00024	TR NPN TO-92	KSA733CY, 0.15A, 60VM, 0.25W, LF AMP	PCS	1.000		Q302
114	21-124-00155	TR NPN TO-92	KSA931.0, 0.7A, 80V, 1W, LF AMP	PCS	1.000		Q203
115	21-125-0001B	TR NPN TO-126	KSA1381E(S), STICK, 0.1A, 300V, 7W(TC)	PCS	1.000		Q802

ASS'Y NO	MA-125-00713

SEQ	P/N	DESCRIPTION	SPEC	UNIT	Q'TY	ECO NO	CKT NO.
116	22-111-90012	RECTIFIER DIODE FR	1A, 1000V, MR818/GI818	PCS	1.000		D102
117	22-111-90087	RECTIFIER DIODE FR	1A, 600V, 1N4937	PCS	13.000		D103 D104 D105 D106 D108 D109 D110 D201 D601 D801 D803 D807 D808
118	22-111-90167	RECTIFIER DIODE FR	1.5A, 400V, RGP15G/FF1504	PCS	3.000		D111 D112 D113
119	22-121-00051	ZENER DIODE	0.5W, 5.1V, UZ5.1B	PCS	4.000		D300 D536 D537 D805
120	22-121-00087	ZENER DIODE	0.5W, 8.2V, UZ8.2B	PCS	2.000		D527 D602
121	22-121-00167	ZENER DIODE	0.5W, 24V, UZ24B	PCS	2.000		D701 D809
122	22-132-00048	SWITCHING DIODE	100MA, 75V, 1N4148	PCS	42.000		D202 D302 D306 D310 D501-D526 D528-D535 D538 D802 D804 D806
123	23-321-90259	IC, LINEAR, DIP-20	HV PROCESSOR, TDA9102C	PCS	1.000		IC301
124	23-321-90286	IC, LINEAR, DIP-14	SIDE PIN CUSHION, TDA8146	PCS	1.000		IC701
125	23-421-90298	IC, LINEAR, DIP-8	OP AMP, TL082CP	PCS	1.000		IC104
126	31-131-00012	BEAD PIN	D2.36 * 14.1, BRASS, SN	PCS	11.000		CN101 CN102 CN103 CN109
127	36-181-00012	WIRE, BARE	CU+SN+PB, 1ST, 1X0.6, SAD	KG	.120		J0-J42 J44-J55 J60-J82
128	36-615-0001B	CONNECTOR SHROUDED HEADER	2.5, ST, 2P, 35301-0250-7, STICK	PCS	1.000		CN105
129	36-615-0002B	CONNECTOR SHROUDED HEADER	2.5, ST, 3P, 35301-0350-7, STICK	PCS	1.000		CN106

ASS'Y NO	01-123-00223

SEQ	P/N	DESCRIPTION	SPEC	UNIT	Q'TY	ECO NO	CKT NO.
1	MA-125-00009	A/S ASS'Y	SOCKET, RADIAL GROUP, SC-528DX(L)	PCS	1.000		
2	MA-125-00696	A/S ASS'Y	SOCKET, AXIAL GROUP, SC-528DX(L)	PCS	1.000		
3	01-161-01137	SUB ASS'Y, HEAT SINK	LM2416T, SC-4 * *TX/VX	PCS	1.000		IC402
4	01-162-00048	SUB ASS'Y, SHIELD COVER	TIN, WH, RING TER, 133 * 111 * 43	PCS	1.000		
5	11-196-01072	CAP, AL-ELECT, GP	100UF, 100V 20%, -40/85'C, RT	PCS	1.000		C423
6	12-246-02729	CAP, DISC CERAMIC, CK-45	2700PF, 10%, 2KV, -25/85'C, RB	PCS	1.000		C427
7	13-911-00024	CAP, SPARK-GAP	1KV, S-23	PCS	1.000		SG401
8	15-221-00749	VAR, NO-HANDLE, CAP, H-TYPE	100 OHM, B, 0.2W	PCS	3.000		VR401 VR402 VR403
9	15-221-00752	VAR, NO-HANDLE, CAP, H-TYPE	50K OHM, B, 0.2W	PCS	3.000		VR405R VR405G VR405B
10	19-161-00036	NEON LAMP	200VDC	PCS	4.000		SG402R SG402G SG402B SG403
11	21-112-90024	TR NPN TO-18	2N2369A, 200MA, 40V, 360MW, SW	PCS	3.000		Q401 Q402 Q403
12	23-321-90208	IC, LINEAR, DIP	1203, RGB VIDEO AMP, 28	PCS	1.000		IC401
13	36-282-00024	WIRE, BARE, TAPING	CU+SN+PB, 1ST, 1 * 0.6, 52MM	PCS	1.000		SHIELE
14	36-412-00737	WIRE, CONN/HOUSING	155MM, 11P, W, 2.5, UL1007#22, 5P, 4P, CO	PCS	1.000		CN403 CN404
15	36-613-00208	CONNECTOR, OPEN HEADER	10, ST, 2P, BW-502L	PCS	1.000		CN405
16	36-615-00024	CONNECTOR SHROUDED HEADER	2.5, ST, 3P, 5267-03A	PCS	1.000		CN402
17	36-615-00075	CONNECTOR SHROUDED HEADER	2.5, ST, 11P, 5267-11A	PCS	1.000		CN401
18	36-633-90116	CRT SOCKET	D29, 12P, HPS0199-01-020	PCS	1.000		

ASS'Y NO	01-161-00684

SEQ	P/N	DESCRIPTION	SPEC	UNIT	Q'TY	ECO NO	CKT NO.
1	23-322-00104	IC, LINEAR, SIP-5	STR58041	PCS	1.000		IC101
2	31-114-00327	EAT SINK-N, SC-431EII/VII	90*60*57, AL 2.0T	PCS	1.000		
3	33-142-00036	MS+, PAN, W/P.W, ZPW	M3*12, SWRCH1018AK	PCS	1.000		
4	33-852-00012	NUT, HEX, 2, ZPW	M3*0.5P, S10C	PCS	1.000		
5	35-111-05081	LABEL, WARNING, SC-431EII/VII	HIGH VOLTAGE	PCS	1.000		

ASS'Y NO	01-161-01084

SEQ	P/N	DESCRIPTION	SPEC	UNIT	Q'TY	ECO NO	CKT NO.
1	22-111-90048	RECTIFIER DIODE FR	3A, 1000V, BYW96E/BYT78, SC-431VS	PCS	1.000		D302
2	31-114-00526	HEAT SINK-N	22*55.8*5.2, TIN PLATE	PCS	1.000		

ASS'Y NO	01-161-01149

SEQ	P/N	DESCRIPTION	SPEC	UNIT	Q'TY	ECO NO	CKT NO.
1	23-329-90087	IC, LINEAR, SPECIAL	VERTICAL DEFLECTION DRIVER, TDA8172	PCS	1.000		IC201
2	31-114-00577	HEAT SINK-N, SC-4**VX/TX, TDA8172	50*28*40, A6063S, W/SOLDER PIN	PCS	1.000		
3	33-142-00012	MS+, PAN, W/P.W, ZPW	M3*8, SWRCH1018AK	PCS	1.000		
4	33-852-00012	NUT, HEX, 2, ZPW	M3*0.5P, S10C	PCS	1.000		

ASS'Y NO	01-161-01152

SEQ	P/N	DESCRIPTION	SPEC	UNIT	Q'TY	ECO NO	CKT NO.
1	21-117-90303	TR NPN TO-3P	HPA72R, 7A, 1500V, 60W(TC), HOR DEF, HF	PCS	1.000		Q303
2	31-114-00565	HEAT SINK-N, FBT, SC-4**VX/TX	100.6*79.6*104, AL 2T	PCS	1.000		
3	33-142-00024	MS+, PAN, W/P.W, ZPW	M3*10, SWRCH1018AK	PCS	1.000		
4	33-852-00012	NUT, HEX, 2, ZPW	M3*0.5P, S10C	PCS	1.000		

ASS'Y NO	01-161-01271

SEQ	P/N	DESCRIPTION	SPEC	UNIT	Q'TY	ECO NO	CKT NO.
1	23-312-00048	IC, REGULATOR, TO-220	7812C, 1.5A, 12V	PCS	1.000		IC102
2	31-114-00618	HEAT SINK-N	30*15*23.5, A6063S	PCS	1.000		
3	33-142-00012	MS+, PAN, W/P.W, ZPW	M3*8, SWRCH1018AK	PCS	1.000		

ASS'Y NO	01-161-01312

SEQ	P/N	DESCRIPTION	SPEC	UNIT	Q'TY	ECO NO	CKT NO.
1	23-322-90155	IC, LINEAR, SIP-5	VOLTAGE REGULATOR, STR50330-LF501	PCS	1.000		I103
2	31-114-00645	HEAT SINK-N	35.5*48*0.5T, TIN PLATE	PCS	1.000		
3	33-142-00012	MS+, PAN, W/P.W, ZPW	M3*8, SWRCH1018AK	PCS	1.000		
4	33-852-00012	NUT, HEX, 2, ZPW	M3*0.5P, S10C	PCS	1.000		

ASS'Y NO	01-189-00179

SEQ	P/N	DESCRIPTION	SPEC	UNIT	Q'TY	ECO NO	CKT NO.
1	11-194-01069	CAP, AL-ELECT, GP	10UF, 20%, 35V, -40/85'C, RT	PCS	2.000		C1 C2
2	11-195-01105B	CAP, AL-ELECT, GP	1UF, 20%, 50V, -40/85'C, RT, SMALL	PCS	1.000		C3
3	12-182-03303	CAP, DISC CERAMIC, CC45	33PF, 5%, 50V -25/85'C, RT, TC	PCS	2.000		C4 C5
4	12-191-01018	CAP, DISC CERAMIC, CC45	100PF, 10%, 50V, -25/85'C, RT, TC	PCS	1.000		C6
5	12-371-01033	CAP, DISC CERAMIC, CK	0.01UF, -20/80%, 50V, -25/85'C, RT	PCS	1.000		C7
6	14-121-01033	RES, CARBON, AT	10K OHM, 1/6W, 5%	PCS	2.000		R3 R5
7	14-121-01523	RES, CARBON, AT	1.5K OHM, 1/6W, 5%	PCS	1.000		R1
8	14-121-02226	RES, CARBON, AT	2.2K OHM, 1/6W, 5%	PCS	1.000		R4
9	14-121-03912	RES, CARBON, AT	390 OHM, 1/6W, 5%	PCS	1.000		R2
10	14-121-04758	RES, CARBON, AT	4.7M OHM, 1/6W, 5%	PCS	1.000		R6
11	16-124-00381	PCB, MCU, SC-528DX/DXL	80 * 30, FR-4, 1.6T	PCS	1.000		
12	23-121-00075	IC, TTL, LS, DIP	74LS07	PCS	1.000		IC3
13	23-121-00868	IC, TTL, LS, DIP	74LS86	PCS	1.000		IC4
14	23-121-91455	IC, TTL, LS, DIP	74LS145	PCS	1.000		IC2
15	23-401-90167	IC, CPU, DIP-28	LSC417096P SAMTRON, 8BIT	PCS	1.000		IC1
16	29-111-00179	CRYSTAL	4.000 MHZ, 2P	PCS	1.000		X-TAL
17	36-613-00354	CONNECTOR OPEN HEADER	2.4, RA, 7P, 3094-07	PCS	1.000		CONN
18	36-613-00366	CONNECTOR OPEN HEADER	2.5, RA, 18P, 3094-18	PCS	1.000		CONN
19	36-631-00104	IC SOCKET	DUAL CONT, TIN, 28PM, WSDIF-N28T-0	PCS	1.000		IC1

ASS'Y NO	MA-125-00009

SEQ	P/N	DESCRIPTION	SPEC	UNIT	Q'TY	ECO NO	CKT NO.
1	11-192-0106B	CAP, AL-AELECT, GP	10UF, 20%, 16V, -40/85'C, RT, SMALL	PCS	3.000		C401 C402 C403
2	11-192-0107B	CAP, AL-AELECT, GP	100UF, 20%, 16V, -40/85'C, RT, SMALL	PCS	3.000		C404 C416 C422
3	11-195-0105B	CAP, AL-AELECT, GP	1UF, 20%, 50V, -40/85'C, RT, SMALL	PCS	2.000		C409 C419
4	11-195-0475B	CAP, AL-AELECT, GP	4.7UF, 20%, 50V, -40/85'C, RT, SMALL	PCS	1.000		C406
5	11-197-01057	CAP, AL-AELECT, GP	1UF, 20%, 160V, -40/85'C, RT	PCS	3.000		C424R C424G C424B
6	12-182-03303	CAP, DISC CERAMIC, CC45	33PF, 5%, 50V -25/85'C, RT, TC	PCS	3.000		C417 C418 C420
7	12-334-01018	CAP, DISC CERAMIC, CK45	100PF, 10%, 500V, -25/85'C, RT, HDC	PCS	1.000		C426
8	12-335-01033	CAP, DISC CERAMIC, CK	0.01UF, -20/80%, 500V, -25/85'C, RT	PCS	3.000		C425 C432 C433
9	12-371-01033	CAP, DISC CERAMIC, CK	0.01UF, -20/80%, 50V, -25/85'C, RT	PCS	1.000		C415
10	12-371-01045	CAP, DISC CERAMIC, CK-45	0.1UF, -20/80%, 50V, -25/85'C, RT	PCS	9.000		C405 C407 C410 C411 C412 C413 C428 C430 C431
11	13-126-01045	CAP, IND-POLYESTER	0.1UF, 10%, 100V, RT, CQ92MT	PCS	1.000		C408

ASS'Y NO	MA-125-00696

SEQ	P/N	DESCRIPTION	SPEC	UNIT	Q'TY	ECO NO	CKT NO.
1	14-121-01018	RES, CARBON, AT	100 OHM, 1/6W, 5%	PCS	9.000		R419 R420 R421 R426 R427 R428 R432 R433 R434
2	14-121-02214	RES, CARBON, AT	220 OHM, 1/6W, 5%	PCS	3.000		R411 R414 R417
3	14-121-02226	RES, CARBON, AT	2.2K OHM, 1/6W, 5%	PCS	1.000		R409
4	14-121-02728	RES, CARBON, AT	2.7K OHM, 1/6W, 5%	PCS	1.000		R418
5	14-121-03327	RES, CARBON, AT	3.3K OHM, 1/6W, 5%	PCS	1.000		R404
6	14-121-03912	RES, CARBON, AT	390 OHM, 1/6W, 5%	PCS	1.000		R407 R412 R415
7	14-121-03924	RES, CARBON, AT	3.9K OHM, 1/6W, 5%	PCS	1.000		R405

ASS'Y NO	MA-125-00696

SEQ	P/N	DESCRIPTION	SPEC	UNIT	Q'TY	ECO NO	CKT NO.
8	14-121-05107	RES, CARBON, AT	51 OHM, 1/6W, 5%	PCS	3.000		R410 R413 R416
9	14-121-05624	RES, CARBON, AT	5.6K OHM, 1/6W, 5%	PCS	1.000		R406
10	14-121-07508	RES, CARBON, AT	75 OHM, 1/6W, 5%	PCS	3.000		R401 R402 R403
11	14-134-01018	RES, CARBON, AT	100 OHM, 1/4W, 5%	PCS	1.000		R429
12	14-134-01838	RES, CARBON, AT	18K OHM, 1/4W, 5%	PCS	1.000		R408
13	14-134-02214	RES, CARBON, AT	220 OHM, 1/4W, 5%	PCS	3.000		R423 R424 R425
14	14-134-04707	RES, CARBON, AT	47 OHM, 1/4W, 5%	PCS	2.000		R431G R431B
15	14-134-04734	RES, CARBON, AT	47K OHM, 1/4W, 5%	PCS	3.000		R435R R435G R435B
16	14-142-01018	RES, CARBON, AT	100 OHM, 1/2W, 5%	PCS	3.000		R436R R436G R436B
17	14-516-01006	RES, METAL, FUSIBLE, AT	10 OHM, 1/4W, 5%	PCS	1.000		R440
18	16-111-01256	PCB, SOCKET	108 * 130, FR-1, 1.6T	PCS	1.000		
19	17-313-00063	FILTER, CORE	2.4UH, 5.5MM, BEAD, 0.032 OHM, CGA/VII	PCS	4.000		L402 L403 L404 L405
20	17-313-00128	FILTER, CORE	BEAD, 1300HM, 3.5 * 8.0	PCS	2.000		L401 L407
21	22-111-90087	RECTIFIER DIODE FR	1A, 600V, 1N4937	PCS	3.000		D404R D404G D404B
22	22-121-00167	ZENER DIODE	0.5W, 24V, UZ24B	PCS	3.000		D405R D405G D405B
23	22-132-00048	SWITCHING DIODE	100MA, 75V, 1N4148	PCS	6.000		D401 D402 D403 D406 D407 D408
24	36-181-00012	WIRE, BARE	CU+SN+PB, 1ST, 1X0.6, SAD	KG	.012		J1-J8

ASS'Y NO	01-161-01137

SEQ	P/N	DESCRIPTION	SPEC	UNIT	Q'TY	ECO NO	CKT NO.
1	23-329-90099	IC, LINEAR, SPECIAL	COLOR CRT DRIVER, LM2416T	PCS	1.000		
2	31-114-00538	HEAT SINK-N, SC-428VS/431VS	50 * 18 * 30, A6063S, W/SOLDER PIN	PCS	1.000		
3	33-142-00012	MS+, PAN, W/P.W, ZPW	M3 * 8, SWRCH1018AK	PCS	1.000		
4	33-852-00012	NUT, HEX, 2, ZPW	M3 * 0.5P, S10C	PCS	1.000		

ASS'Y NO	01-162-00048

SEQ	P/N	DESCRIPTION	SPEC	UNIT	Q'TY	ECO NO	CKT NO.
1	31-129-00434	SHIELD COVER, SOCKET, SC-4 * * VX(L)/TX	133 * 110 * 43, TIN 0.3T	PCS	1.000		
2	36-437-00194	BRAID WIRE, RING, W/TUBE	D5 * 120MM	PCS	2.000		

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• SC-528DXL 115V

• SC-528DXL 230V

ASS'Y NO	M6-126-02384	MODEL NO	CS-528DXL 115V

SEQ	P/N	DESCRIPTION	SPEC	UNIT	Q'TY	ECO NO	CKT NO.
1	MJ-126-01996	COLOR SET CHASSIS ASS'Y	FREE, ANALG, 0.28V	PCS	1.000		
2	02-121-01271	ASS'Y, STAND BASE, SC-528DX(L)	OEM-3357	PCS	1.000		
3	02-141-01404	ASS'Y, MANUAL, USER'S, SC-528DX/DXL		PCS	1.000		
4	19-172-00012	FERRITE SHEET	PST 10*90 (FS 200) 3M	PCS	1.500		
5	31-129-00458	SHIELD COVER, SIDE	271.6*165.3*7, TIN 0.3T	PCS	1.000		
6	32-111-02571	PLA, EXT-H, REAR	266*348.4*282.4, ABS, OEM-3357	PCS	1.000		
7	32-611-03606	PLA, DUMMY COVER	D7.9*3.2, ABS, OEM-3357	PCS	2.000		
8	33-191-00051	MS, SPL, PCN, W/P.W, ZPW	M4*12, SWRCH1018AK	PCS	2.000		
9	33-612-00051	PS+, PAN, ZPW	M3.5*10, SWRCH1018AK	PCS	2.000		
10	33-642-00024	PS+, HEX, W/S.W, ZPW	M4.5*24, SWRCH1018AK, WD : 16	PCS	1.000		
11	34-111-03303	BOX, SC-528DXL, SAMTRON	485*449*445, E200*KA200*K200*K	PCS	1.000		
12	34-211-00461	S/FOAM, L, R	415*470*120, EPS	PCS	1.000		
13	34-211-00577	VINYL BAG, SET, SAMTRON	800*880, HDPE 0.015T, RECYCLING	PCS	1.000		
14	34-311-00592	VINYL BAG, SIGNAL CABLE, SAMTRON	110*200, HDPE 0.05T, RECYCLING	PCS	1.000		
15	35-111-08015	LABEL, BOX, SC-4**, DOUBLE BACKING	120*95, ART PAPER	PCS	1.000		
16	35-111-08369	LABEL, PRODUCT, SC-528DXL	99.8*49.8, UL/CSA/TUV/GS, OEM-3357	PCS	1.000		
17	36-521-0021B	CORD, POWER, NORMAL, DETACH	SVT, 125V/7A, BK, 6FT, SHIELDED, T MARK	PCS	1.000		

ASS'Y NO	M6-126-04137	MODEL NO	SC-528DXL 230V

SEQ	P/N	DESCRIPTION	SPEC	UNIT	Q'TY	ECO NO	CKT NO.
1	MJ-126-01996	COLOR SET CHASSIS ASS'Y	FREE, ANALG, 0.28V	PCS	1.000		
2	02-121-01271	ASS'Y, STAND BASE, SC-528DX(L)	OEM-3357	PCS	1.000		
3	02-141-01416	ASS'Y, MANUAL, USER'S, SC-528DX/DXL		PCS	1.000		
4	19-172-00012	FERRITE SHEET	PST 10*90 (FS 200) 3M	PCS	1.500		
5	31-129-00458	SHIELD COVER, SIDE	271.6*165.3*7, TIN 0.3T	PCS	1.000		
6	32-111-02571	PLA, EXT-H, REAR	266*348.4*282.4, ABS, OEM-3357	PCS	1.000		
7	32-611-03606	PLA, DUMMY COVER	D7.9*3.2, ABS, OEM-3357	PCS	2.000		
8	33-191-00051	MS, SPL, PCN, W/P.W, ZPW	M4*12, SWRCH1018AK	PCS	2.000		
9	33-612-00051	PS+, PAN, ZPW	M3.5*10, SWRCH1018AK	PCS	2.000		
10	33-642-00024	PS+, HEX, W/S.W, ZPW	M4.5*24, SWRCH1018AK, WD : 16	PCS	1.000		
11	34-111-03303	BOX, SC-528DXL, SAMTRON	485*449*445, E200*KA200*K200*K	PCS	1.000		
12	34-211-00461	S/FOAM, L, R	415*470*120, EPS	PCS	1.000		
13	34-311-00577	VINYL BAG, SET, SAMTRON	800*880, HDPE 0.015T, RECYCLING	PCS	1.000		
14	34-311-00592	VINYL BAG, SIGNAL CABLE, SAMTRON	110*200, HDPE 0.05T, RECYCLING	PCS	1.000		
15	35-111-08015	LABEL, BOX, SC-4**, DOUBLE BACKING	120*95, ART PAPER	PCS	1.000		
16	35-111-08369	LABEL, PRODUCT, SC-528DXL	99.8*49.8, UL/CSA/TUV/GS, OEM-3357	PCS	1.000		
17	36-521-9004B	CORD, POWER, NORMAL, DETACH	H05VV-F, 250V, BK, 1830MM, T MARK	PCS	1.000		

ASS'Y NO	MJ-126-01996

SEQ	P/N	DESCRIPTION	SPEC	UNIT	Q'TY	ECO NO	CKT NO.
1	MG-126-00805	PCB ASS'Y	FREE, ANALG, M.V.S	PCS	1.000		
2	01-143-00087	SUB ASS'Y, ROCKER S/W	POWER, 2P, 190MM	PCS	1.000		
3	01-151-00553	SUB ASS'Y, VOLUME	SC-528DX/DXL	PCS	1.000		
4	01-191-00167	SUB ASS'Y, AC SOCKET W/WIRE	240MM	PCS	1.000		
5	01-211-90502	ASS'Y CDT	M36KUT23XX01(F), 0.28D, 15", VLMF, 350	PCS	1.000		
6	02-121-01283	ASS'Y, BOTTOM BASE, SC-528DX(L)	OEM-3357	PCS	1.000		
7	02-121-01309	ASS'Y, FRONT, SC-528DXL	OEM-3357	PCS	1.000		
8	17-224-00179	COIL, DEGAUSSING	90+-1T, 0.4 D, 12.4 OHM, 995 MM, 6L	PCS	1.000		
9	31-211-02107	MET-I, PRS, FRAME	343*98.5*34.2, EGI 1.2T	PCS	1.000		
10	32-311-00012	CABLE TIE	L101.6*W25*T1	PCS	2.000		
11	32-611-03182	PLA, DEGAUSS S/W CAP, SC-726V	7.5*21.1*13, ABS, OEM-22596	PCS	1.000		
12	33-168-00024	MS+, BND, W/T.L.W, ZPW	M4*8, SWRCH1018AK	PCS	1.000		
13	33-191-00051	MS, SPL, PCN, W/P.W, ZPW	M4*12, SWRCH1018AK	PCS	2.000		
14	33-425-00012	TS+, BND, W/P.W, B, ZPW	M3*8, SWRCH1018AK	PCS	2.000		
15	33-485-00012	TS+, OVAL, 2, ZPW	M3*12, SWRCH1018AK	PCS	2.000		
16	33-642-00024	PS+, HEX, W/S.W, ZPW	M4.5*24, SWRCH1018AK, WD : 16	PCS	4.000		
17	36-437-00339	BRAID WORE, CDT GND	685*260*2*115MM, 2P, 16*3*0.16	PCS	1.000		
18	36-541-00618	CABLE, SIGNAL, NON-DET	15P, 1720MM, SC-5280DX(L), BK, MOLD	PCS	1.000		

ASS'Y NO	MG-126-00805

SEQ	P/N	DESCRIPTION	SPEC	UNIT	Q'TY	ECO NO	CKT NO.
1	MA-126-00713	A/S ASS'Y	FREE, ANALG, M. V. S	PCS	1.000		
2	01-123-00223	SUB ASS'Y, CPT SOCKET	SC-528DX/DXL	PCS	1.000		
3	01-161-00684	SUB ASS'Y, HEAT SINK	SC-431VII/EII/VS, STR58041, 90*57*60	PCS	1.000		
4	01-161-01084	SUB ASS'Y, HEAT SINK	BYW96E, 54.8*25*5.3	PCS	1.000		
5	01-161-01149	SUB ASS'Y, HEAT SINK	TDA8172, SC-4**TX/VX	PCS	1.000		
6	01-161-01152	SUB ASS'Y, HEAT SINK	HPA72R, SC-4**TX/VX	PCS	1.000		
7	01-161-01271	SUB ASS'Y, HEAT SINK	MC7812CT, 23.5*15*30, WH	PCS	1.000		
8	01-161-01312	SUB ASS'Y, HEAT SINK	STR50330(LF501), 50*24.5*0.8	PCS	1.000		
9	01-189-00179	SUB ASS'Y, MISC PCB	SC-528DX/DXL, MCU PCB	PCS	1.000		
10	11-119-0227B	CAP, AL-ELECT, GP	220UF, 20%, 160V, -40/85'C, RB, SMALL	PCS	1.000		C328
11	11-233-02277	CAP, AL-ELECT	220UF, 20%, 400V, -40/85'C, PT	PCS	1.000		C104
12	12-243-01021	CAP, DISC CERAMIC, CK	1000PF, 10%, 1KV, -25/85'C, EPOXY, RB	PCS	1.000		C321
13	13-152-01045	CAP, METALZ-POLYESTER	0.1UF, 10%, 100V, RB, CF93MM, OEM	PCS	1.000		C808
14	13-152-02241	CAP, METALZ-POLYESTER	0.22UF, 10%, 100V, RB, CF93MM, OEM	PCS	2.000		C206 C807
15	13-152-03342	CAP, METALZ-POLYESTER	0.33UF, 10%, 100V, RB	PCS	1.000		C804
16	13-153-91045	CAP, METALZ-POLYESTER	0.1UF, 10%, 250VAC, RB	PCS	1.000		C109
17	13-154-92226	CAP, METALZ-POLYESTER	2200 PF, 10%, 250VAC, RB	PCS	2.000		C101 C102
18	13-154-94746	CAP, METALZ-POLYESTER	0.47 UF, 10%, 250VAC, RB	PCS	1.000		C103

ASS'Y NO	MJ-126-01996

SEQ	P/N	DESCRIPTION	SPEC	UNIT	Q'TY	ECO NO	CKT NO.
1	MG-126-00805	PCB ASS'Y	FREE, ANALG, M.V.S	PCS	1.000		
2	01-143-00087	SUB ASS'Y, ROCKER S/W	POWER, 2P, 190MM	PCS	1.000		
3	01-151-00553	SUB ASS'Y, VOLUME	SC-528DX/DXL	PCS	1.000		
4	01-191-00167	SUB ASS'Y, AC SOCKET W/WIRE	240MM	PCS	1.000		
5	01-211-90502	ASS'Y CDT	M36KUT23XX01(F), 0.28D, 15", VLMF, 350	PCS	1.000		
6	02-121-01283	ASS'Y, BOTTOM BASE, SC-528DX(L)	OEM-3357	PCS	1.000		
7	02-121-01309	ASS'Y, FRONT, SC-528DXL	OEM-3357	PCS	1.000		
8	17-224-00179	COIL, DEGAUSSING	90+-1T, 0.4 D, 12.4 OHM, 995 MM, 6L	PCS	1.000		
9	31-211-02107	MET-I, PRS, FRAME	343*98.5*34.2, EGI 1.2T	PCS	1.000		
10	32-311-00012	CABLE TIE	L101.6*W25*T1	PCS	2.000		
11	32-611-03182	PLA, DEGAUSS S/W CAP, SC-726V	7.5*21.1*13, ABS, OEM-22596	PCS	1.000		
12	33-168-00024	MS+, BND, W/T.L.W, ZPW	M4*8, SWRCH1018AK	PCS	1.000		
13	33-191-00051	MS, SPL, PCN, W/P.W, ZPW	M4*12, SWRCH1018AK	PCS	2.000		
14	33-425-00012	TS+, BND, W/P.W, B, ZPW	M3*8, SWRCH1018AK	PCS	2.000		
15	33-485-00012	TS+, OVAL, 2, ZPW	M3*12, SWRCH1018AK	PCS	2.000		
16	33-642-00024	PS+, HEX, W/S.W, ZPW	M4.5*24, SWRCH1018AK, WD : 16	PCS	4.000		
17	36-437-00339	BRAID WORE, CDT GND	685*260*2*115MM, 2P, 16*3*0.16	PCS	1.000		
18	36-541-00618	CABLE, SIGNAL, NON-DET	15P, 1720MM, SC-5280DX(L), BK, MOLD	PCS	1.000		
19	13-315-01232	CAP, PP	0.012UF, 5%, 1KV, -25/85'C, RB	PCS	1.000		C325
20	13-317-01021	CAP, PP, HIGH-VOL	1000PF, 5%, 1.6KV, RB	PCS	1.000		C324
21	13-317-02823	CAP, PP, HIGH-VOL	2800PF, 5%, 1.6KV, RB	PCS	1.000		C323
22	13-317-06024	CAP, PP, HIGH-VOL	6000PF, 1.6KV, 5%, -25/85'C, RB	PCS	1.000		C320
23	13-341-01021	CAP, PP	0.001UF, 3%, 100V, RB	PCS	1.000		C302
24	13-352-05241	CAP, METALZ-PP, GP	0.52UF, 5%, 200V, RB	PCS	1.000		C327
25	13-352-07547	CAP, METALZ-PP, GP	0.75UF, 5%, 200V, RB	PCS	1.000		C326
26	13-355-04734	CAP, METALZ-PP, GP	0.047UF, 5%, 800V, RB, CF93MP, OEM	PCS	1.000		C105
27	13-356-02054	CAP, METALZ-PP	2UF, 5%, 100V, RB	PCS	1.000		C322
28	14-352-01018	RES, METAL OXIDE, AB	100 OHM, 3W, 5%, FORMING	PCS	1.000		R320
29	14-352-06805	RES, METAL OXIDE, AB	68 OHM, 3W, 5%, FORMING	PCS	1.000		R108
30	14-641-0R336	RES, WIRE WOUND, AB	0.33 OHM, 1W, 5%	PCS	1.000		R107
31	14-732-01508	RES, CEMENT, RB	15 OHM, 5W, 5%	PCS	1.000		R713
32	14-911-00259	RES, NETWORK, BUSSED, SIP	10K OHM, 5%, 1/8W, 10P	PCS	1.000		RN501
33	15-212-00048	VAR, NO-HANDLE, CAP, V-TYPE	2.2M OHM, B, 0.15W, SR19R-2, 2MB	PCS	1.000		VR701
34	15-621-90087	THERMISTOR, PTC	14 OHM, 20%, 220V, 2PIN	PCS	1.000		PT101
35	15-622-90024	THERMISTOR, NTC	5 OHM, 3.4A, 2.4W	PCS	1.000		TH101
36	17-116-00327	TRANS, POWER, SWITCHING	115/230V	PCS	1.000		T101
37	17-117-00024	COIL, TRANS	800UH/2.3MH	PCS	1.000		T102
38	17-122-90194	FBT, COLOR	Y262393, 56KHZ, VLMF	PCS	1.000		T301
39	17-132-00247	COIL, TRANS, H-DRIVE	10MH/70UH	PCS	1.000		T302
40	17-211-00223	COIL, MODULATION	LITZ, USTC, 88UH-100UH	PCS	1.000		L302
41	17-222-00087	COIL, CHOKE	50UH+-15%, SC-431EII/VII	PCS	3.000		L102 L104 L105
42	17-222-00286	COIL, CHOKE	1MH, 15%	PCS	1.000		L301
43	17-226-00286	COIL, H-LIN, FIX	5.1UH, 25%	PCS	1.000		L303
44	17-311-00274	FILTER, LINE	40MH MIN	PCS	1.000		LF101
45	19-103-00063	FUSE TIMELAG WITHOUT LEAD	3A, 250V, 5.20*20, 51S	PCS	1.000		F101
46	19-121-90024	RELAY	12VDC, -, -, G6B1114P-FD-US	PCS	1.000		RL301
47	19-121-90036	RELAY	12VDC/250VAC, 10A	PCS	1.000		RL101
48	21-115-00116	TR NPN TO-126	KSC3503D, 0.1A, 300V, 7W(TC), VD O/P, M	PCS	1.000		Q103
49	21-131-00036	FET N. CHANNEL	SSP4N60, 4.0A, 600V, 75W(TC), PW, TO-22	PCS	1.000		Q303

ASS'Y NO	MG-126-00805

SEQ	P/N	DESCRIPTION	SPEC	UNIT	Q'TY	ECO NO	CKT NO.
50	22-111-90075	RECTIFIER DIODE FR	2.5A, 400V, RGP30G	PCS	2.000		D304 D305
51	22-111-90366	RECTIFIER DIODE FR	3A, 200V, FR303G(S)	PCS	1.000		D114
52	22-111-90419	RECTIFIER DIODE FR	3A, 800V, 75NS	PCS	1.000		D107
53	22-113-90051	RECTIFIER DIODE BR	4A, 600V	PCS	1.000		D101
54	23-312-00128	IC, REGULATOR	7805C, 1.5A, 5V	PCS	1.000		IC502
55	31-124-00048	GND-LUG, SHIELD	59.7 * 16 * 0.35T, PBSP	PCS	1.000		
56	31-211-01639	MET-I, PRS, PCB BRKT, SC-431VII/EII	13 * 13 * 20, SBHG1	PCS	1.000		
57	31-211-02093	MET-I, PRS, MAIN CHASSIS	288 * 264.5 * 34.8, EGI 1.0T	PCS	1.000		
58	33-425-00012	TS+, BND, W/P.W, B, ZPW	M3 * 8, SWRCH1018AK	PCS	10.000		
59	33-612-00247	PS+, PAN, ZPW	M4 * 12, SWRCH1018AK	PCS	1.000		
60	35-111-06378	LABEL, BAR CODE	65 * 20	PCS	1.000		
61	36-211-00434	WIREFORM, UL1007-AWG22	TCST, 1ST, 17×0.16, PVC, R, 65MM, DT	PCS	1.000		W-1
62	36-211-00446	WIREFORM, UL1007-AWG22	TCST, 1ST, 17×0.16, PVC, R, 135MM, DT	PCS	1.000		W-2
63	36-437-00099	BRAID WIRE, RING TER	D5, 110MM	PCS	1.000		
64	36-615-00075	CONNECTOR SHROUDED HEADER	2.5, ST, 11P, 5267-11A	PCS	2.000		CN107 CN108

ASS'Y NO	MA-126-00713

SEQ	P/N	DESCRIPTION	SPEC	UNIT	Q'TY	ECO NO	CKT NO.
1	11-192-0107B	CAP, AL-ELECT, GP	100UF, 20%, 16V, -40/85'C, RT, SMALL	PCS	4.000		C134 C312 C501 C602
2	11-192-01084	CAP, AL-ELECT, GP	1000UF, 16V, 20%, -40/85'C, RT	PCS	1.000		C210
3	11-193-0106B	CAP, AL-ELECT, GP	10UF, 20%, 25V, -40/85'C, RT, SMALL	PCS	2.000		C202 C205
4	11-193-02277	CAP, AL-ELECT, GP	220UF, 20%, 25V, -40/85'C, RT	PCS	1.000		C132
5	11-193-02289	CAP, AL-ELECT, GP	2200UF, 20%, 25V, -40/85'C, RT	PCS	1.000		C208
6	11-193-04773	CAP, AL-ELECT, GP	470UF, 20%, 25V, -40/85'C, RT	PCS	1.000		C131
7	11-194-01072	CAP, AL-ELECT, GP	100UF, 20%, 35V, -40/85'C, RT	PCS	3.000		C315 C702 C803
8	11-194-01084	CAP, AL-ELECT, GP	1000UF, 20%, 35V, -40/85'C, RT	PCS	3.000		C127 C129 C201
9	11-194-02277	CAP, AL-ELECT, GP	220UF, 20%, 35V, -40/85'C, RT	PCS	2.000		C204 C209
10	11-195-0105B	CAP, AL-ELECT, GP	1UF, 20%, 50V, -40/85'C, RT, SMALL	PCS	3.000		C203 C306 C603
11	11-195-02253	CAP, AL-ELECT, GP	2.2UF, 20%, 50V, -40/85'C, RT	PCS	4.000		C118 C308 C311 C705
12	11-195-0336B	CAP, AL-ELECT, GP	33UF, 20%, 50V, -40/85'C, RT, SMALL	PCS	2.000		C106 C207
13	11-195-0475B	CAP, AL-ELECT, GP	4.7UF, 20%, 50V, -40/85'C, RT, SMALL	PCS	2.000		C313 C802
14	11-196-0106B	CAP, AL-ELECT, GP	10UF, 20%, 100V, -40/85'C, RT, SMALL	PCS	1.000		C108
15	11-196-01072	CAP, AL-ELECT, GP	100UF, 100V, 20%, -40/85'C, RT	PCS	2.000		C124 C126
16	11-197-01072	CAP, AL-ELECT, GP	100UF, 20%, 160V, -40/85'C, RT	PCS	2.000		C113 C115
17	11-198-01069	CAP, AL-ELECT, GP	10UF, 20%, 250V, -40/85'C, RT	PCS	1.000		C806
18	11-199-02265	CAP, AL-ELECT, GP	22UF, 20%, 200V, -40/85'C, RT	PCS	1.000		C318
19	12-182-02214	CAP, DISC CERAMIC, CC	220PF, 5%, 50V, -25/85'C, RT	PCS	1.000		C303
20	12-182-04707	CAP, DISC CERAMIC, CC	47PF, 5%, 50V, -25/85'C, RT	PCS	1.000		C809
21	12-191-01018	CAP, DISC CERAMIC, CC45	100PF, 10%, 50V, -25/85'C, RT, TC	PCS	2.000		C810 C811
22	12-307-04722	CAP, DISC CERAMIC, CK	4700PF, 20%, 400VAC, -25/85'C, RT	PCS	2.000		C110 C111
23	12-331-01021	CAP, DISC CERAMIC, CK	1000PF, 10%, 50V, -25/85'C, RT	PCS	1.000		C314
24	12-331-04722	CAP, DISC CERAMIC, CK	4700PF, 10%, 50V, -25/85'C, RT	PCS	2.000		C119 C316
25	12-334-02716	CAP, DISC CERAMIC, CK-45	270PF, 10%, 500V, -25/85'C, RT	PCS	3.000		C112 C123 C805
26	12-335-01033	CAP, DISC CERAMIC, CK	0.01UF, -20/80%, 500V, -25/85'C, RT	PCS	3.000		C114 C116 C125
27	12-371-01045	CAP, DISC CERAMIC, CK-45	0.1UF, -20/80%, 50V, -25/85'C, RT	PCS	7.000		C128 C130 C133 C502 C601 C604 C801
28	12-371-02238	CAP, DISC CERAMIC, CK45	0.022UF, -20/80%, 50V, -25/85'C, RT	PCS	2.000		C107 C301

ASS'Y NO	MA12600713

SEQ	P/N	DESCRIPTION	SPEC	UNIT	Q'TY	ECO NO	CKT NO.
29	13-126-01045	CAP, IND-POLYESTER	0.1UF, 10%, 100V, RT, CQ92MT	PCS	7.000		C120 C121 C122 C211 C309 C317 C812
30	13-126-01523	CAP, IND-POLYESTER	0.0015UF, 10%, 100V, RT, CQ92MT	PCS	1.000		C703
31	13-126-01535	CAP, IND-POLYESTER	0.015UF, 10%, 100V, RT	PCS	2.000		C307 C310
32	13-126-02238	CAP, IND-POLYESTER	0.022UF, 10%, 100V, -, RT	PCS	2.000		C117 C304
33	13-126-03339	CAP, IND-POLYESTER	0.033UF, 10%, 100V, RT, CQ92MT	PCS	1.000		C704
34	13-126-04722	CAP, IND-POLYESTER	0.0047UF, 10%, 100V, RT	PCS	1.000		C701
35	13-162-0224B	CAP, METALZ-POLYESTER	0.22UF, 100V, 10%, RT	PCS	1.000		C305
36	14-121-01018	RES, CARBON, AT	100 OHM, 1/6W, 5%	PCS	1.000		R813
37	14-121-01021	RES, CARBON, AT	1K OHM, 1/6W, 5%	PCS	3.000		R814 R820 R821
38	14-121-01033	RES, CARBON, AT	10K OHM, 1/6W, 5%	PCS	11.000		R203 R303 R333 R523 R527 R531 R601 R701 R715 R819 R824
39	14-121-01045	RES, CARBON, AT	100K OHM, 1/6W, 5%	PCS	5.000		R516 R517 R520 R534 R817
40	14-121-01057	RES, CARBON, AT	1M OHM, 1/6W, 5%	PCS	2.000		R513 R716
41	14-121-01229	RES, CARBON, AT	1.2K OHM, 1/6W, 5%	PCS	3.000		R221 R305 R526
42	14-121-01232	RES, CARBON, AT	12K OHM, 1/6W, 5%	PCS	2.000		R530 R703
43	14-121-01535	RES, CARBON, AT	15K OHM, 1/6W, 5%	PCS	2.000		R315 R529
44	14-121-01547	RES, CARBON, AT	150K OHM, 1/6W, 5%	PCS	5.000		R308 R311 R514 R515 R705
45	14-121-01826	RES, CARBON, AT	1.8K OHM, 1/6W, 5%	PCS	1.000		R505
46	14-121-01838	RES, CARBON, AT	18K OHM, 1/6W, 5%	PCS	3.000		R211 R322 R502
47	14-121-01841	RES, CARBON, AT	180K OHM, 1/6W, 5%	PCS	1.000		R512
48	14-121-02226	RES, CARBON, AT	2.2K OHM, 1/6W, 5%	PCS	4.000		R604 R605 R702 R706
49	14-121-02238	RES, CARBON, AT	22K OHM, 1/6W, 5%	PCS	5.000		R202 R204 R302 R525 R603
50	14-121-02241	RES, CARBON, AT	220K OHM, 1/6W, 5%	PCS	1.000		R535
51	14-121-02728	RES, CARBON, AT	2.7K OHM, 1/6W, 5%	PCS	4.000		R317 R327 R329 R818
52	14-121-02731	RES, CARBON, AT	27K OHM, 1/6W, 5%	PCS	1.000		R125
53	14-121-02743	RES, CARBON, AT	270K OHM, 1/6W, 5%	PCS	1.000		R118
54	14-121-03036	RES, CARBON, AT	30K OHM, 1/6W, 5%	PCS	1.000		R704
55	14-121-03327	RES, CARBON, AT	3.3K OHM, 1/6W, 5%	PCS	7.000		R207 R220 R312 R507 R508 R511 R815
56	14-121-03912	RES, CARBON, AT	390 OHM, 1/6W, 5%	PCS	1.000		R325
57	14-121-03924	RES, CARBON, AT	3.9K OHM, 1/6W, 5%	PCS	1.000		R503
58	14-121-03936	RES, CARBON, AT	39K OHM, 1/6W, 5%	PCS	1.000		R803
59	14-121-04707	RES, CARBON, AT	47 OHM, 1/6W, 5%	PCS	1.000		R524
60	14-121-04722	RES, CARBON, AT	4.7K OHM, 1/6W, 5%	PCS	4.000		R309 R310 R504 R812
61	14-121-05612	RES, CARBON, AT	560 OHM, 1/6W, 5%	PCS	2.000		R119 R707
62	14-121-05624	RES, CARBON, AT	5.6K OHM, 1/6W, 5%	PCS	7.000		R214 R304 R306 R324 R326 R506 R532
63	14-121-05636	RES, CARBON, AT	56K OHM, 1/6W, 5%	PCS	4.000		R120 R301 R307 R313
64	14-121-05648	RES, CARBON, AT	560K OHM, 1/6W, 5%	PCS	1.000		R522
65	14-121-06844	RES, CARBON, AT	680K OHM, 1/6W, 5%	PCS	1.000		R518
66	14-121-07535	RES, CARBON, AT	75K OHM, 1/6W, 5%	PCS	1.000		R519
67	14-121-08238	RES, CARBON, AT	82K OHM, 1/6W, 5%	PCS	2.000		R201 R521
68	14-134-01018	RES, CARBON, AT	100 OHM, 1/4W, 5%	PCS	2.000		R112 R121
69	14-134-01021	RES, CARBON, AT	1K OHM, 1/4W, 5%	PCS	6.000		R105 R109 R319 R804 R809 R810

ASS'Y NO	MA-126-00713

SEQ	P/N	DESCRIPTION	SPEC	UNIT	Q'TY	ECO NO	CKT NO.
70	14-134-01045	RES, CARBON, AT	100K OHM, 1/4W, 5%	PCS	1.000		R808
71	14-134-01511	RES, CARBON, AT	150 OHM, 1/4W, 5%	PCS	1.000		R602
72	14-134-01523	RES, CARBON, AT	1.5K OHM, 1/4W, 5%	PCS	3.000		R501 R802 R805
73	14-134-01814	RES, CARBON, AT	180 OHM, 1/4W, 5%	PCS	1.000		R212
74	14-134-01841	RES, CARBON, AT	180K OHM, 1/4W, 5%	PCS	1.000		R823
75	14-134-02202	RES, CARBON, AT	22 OHM, 1/4W, 5%	PCS	2.000		R115 R209
76	14-134-02226	RES, CARBON, AT	2.2K OHM, 1/4W, 5%	PCS	1.000		R210
77	14-134-02238	RES, CARBON, AT	22K OHM, 1/4W, 5%	PCS	1.000		R117
78	14-134-02728	RES, CARBON, AT	2.7K OHM, 1/4W, 5%	PCS	2.000		R206 R328
79	14-134-03303	RES, CARBON, AT	33 OHM, 1/4W, 5%	PCS	2.000		R106 R111
80	14-134-03315	RES, CARBON, AT	330 OHM, 1/4W, 5%	PCS	1.000		R116
81	14-134-03339	RES, CARBON, AT	33K OHM, 1/4W, 5%	PCS	1.000		R710
82	14-134-04707	RES, CARBON, AT	47 OHM, 1/4W, 5%	PCS	1.000		R332
83	14-134-05624	RES, CARBON, AT	5.6K OHM, 1/4W, 5%	PCS	2.000		R216 R811
84	14-134-05636	RES, CARBON, AT	56K OHM, 1/4W, 5%	PCS	1.000		R323
85	14-134-06832	RES, CARBON, AT	68K OHM, 1/4W, 5%	PCS	1.000		R126
86	14-142-01R01	RES, CARBON, AT	1 OHM, 1/2W, 5%	PCS	2.000		R124 R331
87	14-142-01021	RES, CARBON, AT	1K OHM, 1/2W, 5%	PCS	1.000		R816
88	14-142-01057	RES, CARBON, AT	1, OHM, 1/2W, 5%	PCS	1.000		R101
89	14-142-01547	RES, CARBON, AT	150K OHM, 1/2W, 5%	PCS	4.000		R113 R114 R123 R807
90	14-142-02R22	RES, CARBON, AT	2.2 OHM, 1/2W, 5%	PCS	1.000		R213
91	14-142-02743	RES, CARBON, AT	270K OHM, 1/2W, 5%	PCS	2.000		R102 R103
92	14-142-03303	RES, CARBON, AT	33 OHM, 1/2W, 5%	PCS	2.000		R110 R801
93	14-142-14719	RES, CARBON, AT	470 OHM, 1/2W, 5%	PCS	2.000		R318 R321
94	14-336-02R2B	RES, METAL OXIDE, AT	2.2 OHM,1W, 5%, 63MM TAPING	PCS	2.000		R205 R806
95	14-336-0270B	RES, METAL OXIDE, AT	27 OHM,1W, 5%, 63MM TAPING	PCS	1.000		R219
96	14-336-0271B	RES, METAL OXIDE, AT	270 OHM,1W, 5%, 63MM TAPING	PCS	1.000		R335
97	14-346-01R01	RES, METAL OXIDE, AT	1 OHM,1W, 5%, 63MM TAPING	PCS	2.000		R218 R334
98	14-346-01018	RES, METAL OXIDE, AT	100 OHM,2W, 5%, 63MM TAPING	PCS	2.000		R217 R708
99	14-346-06832	RES, METAL OXIDE, AT	68K OHM,2W, 5%, 63MM TAPING	PCS	1.000		R104
100	14-413-01045	RES, METAL, AT	100K OHM, 1/8W, 1%	PCS	1.000		R709
101	14-413-06829	RES, METAL, AT	6.8K OHM, 1/8W, 1%	PCS	6.000		R215 R314 R510 R528 R533 R714
102	14-413-06832	RES, METAL, AT	68K OHM, 1/8W, 1%	PCS	5.000		R316 R330 R509 R711 R822
103	15-272-90036	VAR, NO-HANDLE, CAP, V-TYPE, RT	500 OHM, B, 0.1W	PCS	1.000		VR101
104	15-272-90075	VAR, NO-HANDLE, CAP, V-TYPE, RT	5K OHM, B, 0.1W	PCS	1.000		VR102
105	15-272-90099	VAR, NO-HANDLE, CAP, V-TYPE, RT	20K OHM, B, 0.1W	PCS	3.000		VR301 VR302 VR303
106	15-272-90116	VAR, NO-HANDLE, CAP, V-TYPE, RT	100K OHM, B, 0.1W	PCS	1.000		VR305
107	16-111-01309	PCB, MAIN, SC-528DX/DXL	277 * 233, FR-1, 1.6T	PCS	1.000		
108	17-313-00063	FILTER, CORE	2.4UH, 5.5MM, BEAD, 0.032 OHM, CGA/VII	PCS	1.000		L101
109	19-113-90087	FUSE CLIP, TAPPING TYPE	250V, 7.5A, D5.2 * 2.8	PCS	2.000		F101
110	21-114-00012	TR NPN TO-92	KSC945CY, 150MA, 60V, 250MV, AF AMP/OS	PCS	7.000		Q201 Q301 Q601 Q602 Q603 Q803 Q804
111	21-114-00036	TR NPN TO-92	KSC1008Y, 0.7A, 80V, 800MA, LF AMP	PCS	3.000		Q101 Q102 Q801
112	21-114-00116	TR NPN TO-92	KSC2331, 700MA, 80V, 1.0W, LF AMP	PCS	5.000		Q202 Q305 Q306 Q805 Q806
113	21-124-00024	TR PNP TO-92	KSA733CY, 0.15A, 60V, 0.25W, LF AMP	PCS	1.000		Q302
114	21-124-00155	TR PNP TO-92	KSA931.0, 0.7A, 80V, 1W, LF AMP	PCS	1.000		Q203

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SEQ	P/N	DESCRIPTION	SPEC	UNIT	Q'TY	ECO NO	CKT NO.
116	22-111-90012	RECTIFIER DIODE FR	1A, 1000V, MR818/GI818	PCS	1.000		D102
117	22-111-90087	RECTIFIER DIODE FR	1A, 600V, 1N4937	PCS	13.000		D103 D104 D105 D106 D108 D109 D110 D201 D601 D801 D803 D807 D808
118	22-111-90167	RECTIFIER DIODE FR	1.5A, 400V, RGP15G/FF1504	PCS	3.000		D111 D112 D113
119	22-121-00051	ZENER DIODE	0.5W, 5.1V, UZ5.1B	PCS	4.000		D300 D536 D537 D805
120	22-121-00087	ZENER DIODE	0.5W, 8.2V, UZ8.2B	PCS	2.000		D527 D602
121	22-121-00167	ZENER DIODE	0.5W, 24V, UZ24B	PCS	2.000		D701 D809
122	22-132-00048	SWITCHING DIODE	100MA, 75V, 1N4148	PCS	42.000		D202 D302 D306 D310 D501-D526 D528-D535 D538 D802 D804 D806
123	23-321-90259	IC, LINEAR, DIP-20	HV PROCESSOR, TDA9102C	PCS	1.000		IC301
124	23-321-90286	IC, LINEAR, DIP-14	SIDE PIN CUSHION, TDA8146	PCS	1.000		IC701
125	23-421-90298	IC, LINEAR, DIP-8	OP AMP, TL082CP	PCS	1.000		IC104
126	31-131-00012	BEAD PIN	D2.36 * 14.1, BRASS, SN	PCS	11.000		CN101 CN102 CN103 CN109
127	36-181-00012	WIRE, BARE	CU+SN+PB, 1ST, 1X0.6, SAD	KG	.120		J0-J42 J44-J55 J60-J82
128	36-615-0001B	CONNECTOR SHROUDED HEADER	2.5, ST, 2P, 35301-0250-7, STICK	PCS	1.000		CN105
129	36-615-0002B	CONNECTOR SHROUDED HEADER	2.5, ST, 3P, 35301-0250-7, STICK	PCS	1.000		CN106

(2) Reliabilities

2-1. Environmental

The monitor unit must not be degradiated and damaged by operating over the specified range and will meet specifications when retumed to the operating environment SED will perform these tests on the monitor prior to its release. The moritor is required to pass these tests before mass production. These tests are detailed in SED environmment specification.

2-2. Temperature

*Operating : 0°C

*Storage : −40°C To +70°C

2-3. Humidity

*Operating : 15% To 80%(Non condensing)

*Storge : Maximum 90%

2-4. Drop : Refer to SED'S ENVIRONMENTAL TESTS MANUAL.

2-5. Leakage current : Refer to SED'S ENVIRONMENTAL TESTS MANUAL.

2-6. Vibration : Refer to SED'S ENVIROMNMETAL TESTS MANUAL.

2-7. Long Life. (MTBF)

The monitor shal have 20,000hrs MTBF when operated under any combination of conditions as detailed specification

2-8. Altitude.

*Operating : 15000 ft at +70°C

0 ft at 0°C

*Non operating : MAX. 50000ft

2-9. Spfety and approvals.

2-9-1. Safety regulations.

The system will be certified according to the following intemational safely standards.

*UL 1950 WITH D3

*CSA C22.2 No. 950 WITH D3

*TUV EN60950

*NEMKO EN60950 WITH NORWAY DEVIATION

*SETI EN60950 WITH NORWAY EDVIATION

*NOM IEC950

*I.A.A BY KOREAN SAFETY CONTROL LAW

2-9-2. Electromagnetic interference.

The system will be certified according to the following intemational radiation standards.

*FCC 47 CFR. Ch15, SUB.J

*DOC SOR / 88-475

*BZT DIN VDE 0871 / BMPT-Vfg. 243 / 1991

*NEMKO CISPR 22 / EN55022

*SETI COSPR 22 / EN55022

*D.O.T BY KOREAN LAWS. 100

*VCCI CRASS "2"(CISPR 22)

2-9-3. X-Radiation.

The X-radiation emitted from this picture tube will not exceed 0.5mR/h for anode current combination.

X-radiation at a constant anode voltage varies linearly with anode current.

The system will comply with the following international standards.

*DHHS 21 CFR SUB CH J

*SWEDAC MPR 1990 : 8, 10.CEC 2

2-9-4. Ergonomics.

The complete assembly shall be certified as complying with the following international standards.

*TUV / GS : ZH 1 / 618 / 10.80

*TUV / ERGONOMIC : ISO 9241. PART3

2-9-5. Low radiation.

*SEMKO MPR 1990 : 8.10, SEC.2

*TUV / ERGONOMIC MPR 1990 : 8.10, SEC. 2

(3) Singnal cable pin connection

*SINGNAL CABLE PIN CONNECTION (15PIN D-SUB SIGNAL CONNECTOR WITH CABLE)

NO	RGB/ANALOG SIGNAL	Pin No.	WIRE COLOR	REMARKS
1	RED	PIN#1	RED	
2	GREEN	PIN#2	GREEN	
3	BLUE	PIN#3	BLUE	
4	RESERVED	PIN#4	BLACK	
5	LOG GROUND	PIN#5	BLACK	
6	RED GROUND	PIN#6	SHIELD	
7	GREEN GROUND	PIN#7	SHIELD	
8	BLUE GROUND	PIN#8	SHIELD	
9	N.C	PIN#9		
10	SYNC GROUND	PIN#10	BLACK	
11	GROUND	PIN#11	BLACK	
12	N.C	PIN#12		
13	H-SYNC	PIN#13	WHITE	
14	V-SYNC	PIN#14	YELLOW	
15	N.C	PIN#15		