

# TAXAN

For Service Manuals Contact  
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# Service Manual

For the Ultravision 1095  
20" Trinitron™ Colour Monitor



## Document Control

Document Title: Ultravision 1095 Service Manual

Issue Number: 001

Issued By: Dick Menhinick

Date of Issue: 01/6/91

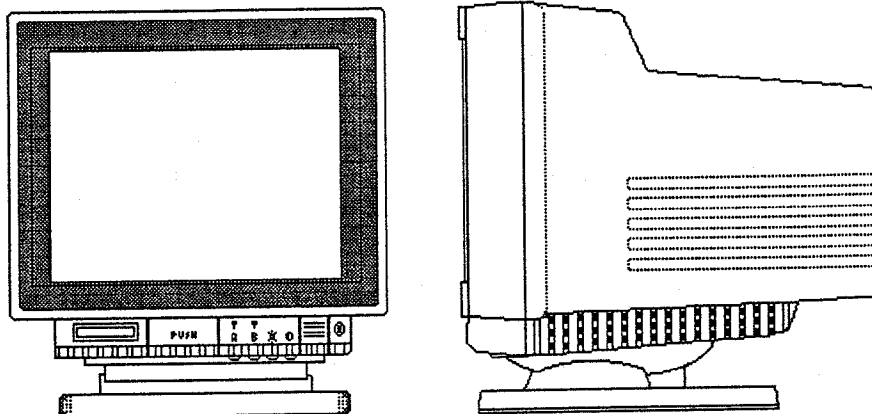
Revisions:

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## Product Overview

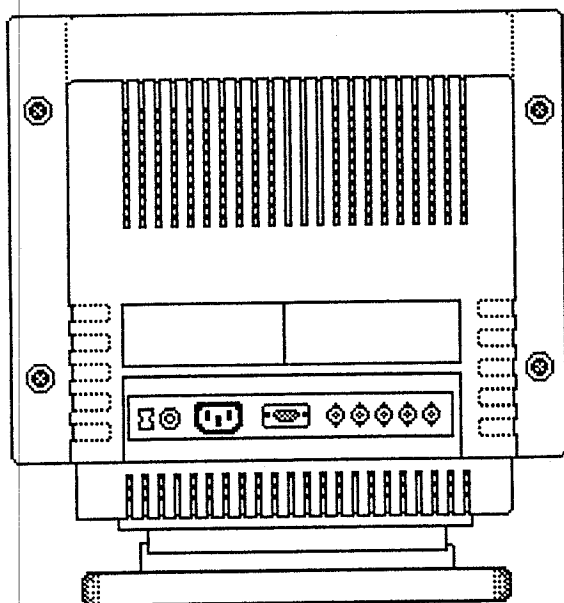
### Taxan K20UV1095 Product Introduction



The Taxan Ultravision 1095 is a high resolution multiple frequency analogue colour monitor designed for the professional CAD and colour-DTP market. Ultravision 1095 has a 20" Trinitron high contrast CRT.

The monitor has  $75\Omega$  analogue inputs with BNC connectors and also a 15 pin sub-miniature compact 'D' connector for VGA compatibility.

The Ultravision 1095 operates over a broad range of signal frequencies (27KHz to approximately 82KHz) allowing compatibility with a wide variety of signal sources from VGA to 1600 x 1200 pixel resolution.



In addition to the Trinitron CRT the monitor is also unusual in having a microprocessor control unit which automatically identifies the input signal type and characteristics, and adjusts the monitor for optimum picture position and size.

The unit is supplied pre-configured for most standard signal types. Other signal types may be programmed by the user via set-up menus on the front panel mounted LCD display.



## Safety Notices

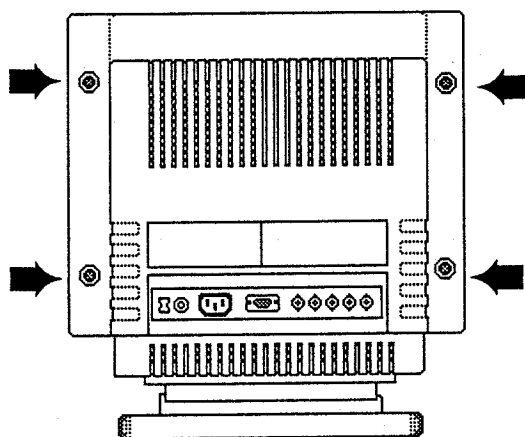
### **Please Note:**

The following information is provided in the interests of safety.

- 1). This equipment is mains powered (230 Volts AC) and is therefore potentially hazardous once the cover is removed.
- 2). Only trained engineering staff should attempt any work on the unit with the cover removed.
- 3). While servicing the unit, protect the mains supply to the equipment under test and all electrically powered test equipment with a suitably rated Residual Current Circuit Breaker (rccb) unit. These devices are readily available and are designed to remove the mains supply quickly in the event of a serious leakage of current to earth.
- 4). Ensure all test equipment, and the unit under test is adequately earthed.
- 5). Always discharge the CRT before attempting any work on the high voltage power circuits.
- 6). We advise the use of Electrostatic Damage Prevention equipment when servicing electronic equipment containing static sensitive devices.

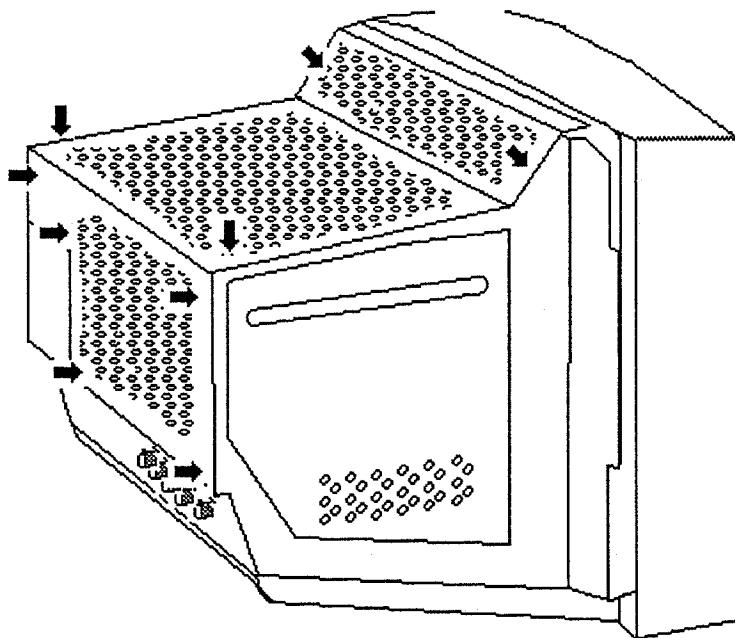
### Removing the back cover.

The outer plastic rear case is taken off by removing the four securing screws indicated on the diagram below. The signal and power cables must also be removed before the cover can be fully detached.



Removal of the plastic cabinet exposes the metal chassis and the RFI shield. The latter must be removed to gain access to the electronics, although the Switch Mode PSU (Left hand side) and the Video processor (right hand side) may be accessed via drop-down panels on either side.

The diagram below shows the screws which secure the RFI shield.



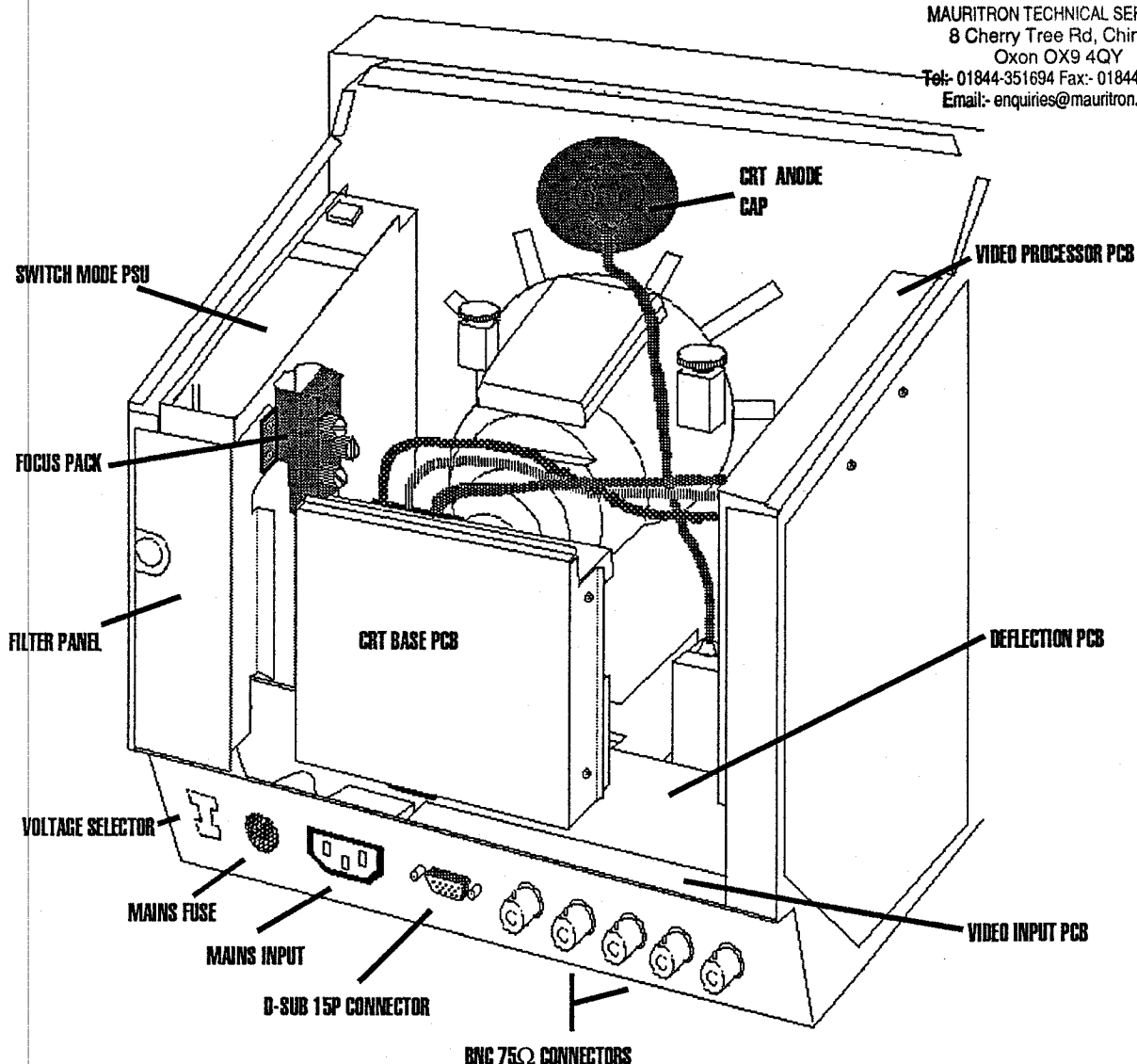
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### Internal Construction

Once the RFI Shield has been removed, most of the major sub-assemblies may be viewed or accessed.

- Notes.
- 1) The Deflection Board is mounted on a metal sub-frame for ease of removal.
  - 2) The Microprocessor Control Unit is mounted perpendicular to the deflection board and immediately below the switch mode power supply.
  - 3) The switch mode PSU and the video processor are mounted on drop-down panels for ease of access.
  - 4) There are bleed resistors in the EHT circuit which discharge the CRT automatically.

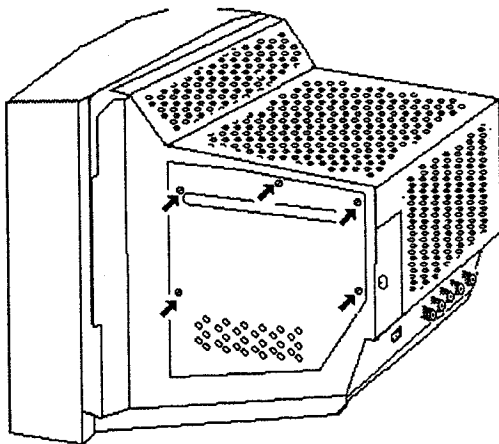
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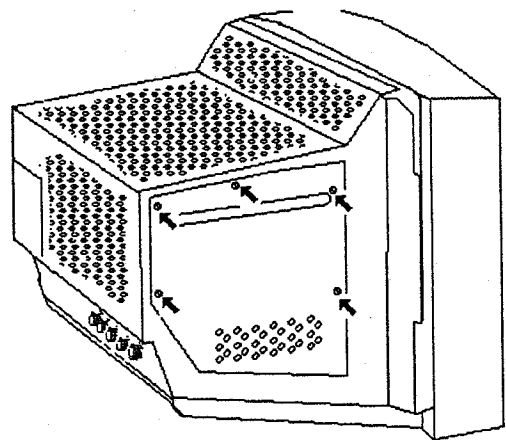
### Access to Sub-Assemblies

The switch mode power supply and the video processor may both be accessed via removable panels at the sides of the monitor. The diagrams below show the screws which need to be removed so that these panels may be lowered. Both panels hinge along their lower edge.

Power Supply Access Panel



Video Processor Access Panel



### Replacing the Deflection Board



E.S.D. Precautions should be observed (The microprocessor control unit is attached to the deflection pcb and contains static sensitive devices).

To replace the Deflection board, the RFI shield must first be removed, followed by the switch mode power supply.

The Filter panel is then detached by removing its two securing screws.

The Deflection pcb is mounted on a metal subframe which is secured by two screws along the rear edge (adjacent to the input pcb and voltage selector). Once these two screws are removed and after all the connecting cables have been detached, the deflection board may be removed by way of the power supply side of the chassis.



# Main Sub-Assemblies

## List of Major Sub-Assemblies

| Board ID | Description                                                                                                                                                                            | Identifier |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| PBG-572  | Deflection pcb                                                                                                                                                                         | DEF        |
| PBG-090  | Microprocessor Control Unit                                                                                                                                                            | MCU        |
| PBG-574  | Switch Mode Regulated Power Supply                                                                                                                                                     | SWR        |
| PBG-575  | Power Switch Assy pcb                                                                                                                                                                  | SW         |
| PBG-646  | Power Input Filter pcb                                                                                                                                                                 | FIL        |
| PBG-592  | Video Processor pcb                                                                                                                                                                    | VID        |
| PBG-591  | CRT Base pcb                                                                                                                                                                           | CRT        |
| PBG-578  | User Control pcb                                                                                                                                                                       | CRL        |
| PBG-577  | Interface pcb                                                                                                                                                                          | I/F        |
| PBG-543  | LCD Display Panel                                                                                                                                                                      | LCD        |
|          | For Service Manuals Contact<br>MAURITRON TECHNICAL SERVICES<br>8 Cherry Tree Rd, Chinnor<br>Oxon OX9 4QY<br>Tel:- 01844-351694 Fax:- 01844-352554<br>Email:- enquiries@mauritron.co.uk |            |
| t.b.a    | Focus Pack                                                                                                                                                                             |            |
| t.b.a    | LED indicator panel                                                                                                                                                                    | LED        |

## Ordering Information for Spare Parts

| Order Code | Consists of               | Description                                             |
|------------|---------------------------|---------------------------------------------------------|
| 8X10059-00 | (PBG-572/PBG-591)         | Deflection / CRT Assembly                               |
| 9T19212-00 | (PBG-090/PBG-543)         | MCU / LCD Panel Assembly                                |
| 7S82046-65 | (PBG-574)                 | Switch Mode Power Supply                                |
| 7S82046-40 | (PBG-646)                 | Power I/P Filter PCB                                    |
| 7S82046-50 | (PBG-592)                 | Video Processor PCB                                     |
| 7S82046-70 | (PBG-577/PBG-578/PBG-575) | I/F PCB / User Control PCB<br>and Power Switch Assembly |

Notes. 1). Focus Pack is hard-wired to the Deflection pcb

2). If Microprocessor Control unit is replaced, user-programmed settings are lost.

3). Replacement of Video Processor may require use of Photometer to correctly set up colour balance and brightness levels.

4). Mains Fuse is 1.25 inch (32mm) 250V 5A Time Delay type

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## SAFETY WARNING

**CAUTION:** No work should be attempt on an exposed monitor chassis by anyone not familiar with servicing procedures and precautions.

**SAFETY-RELATED COMPONENT WARNING:** Components identified by marking  on the schematic diagrams and in the parts lists are critical to safe operation. Replace these components with same parts whose part number to safe operation are identified in this manual. Follow these procedures whenever critical components are replaced or improper operation is suspected.

**SAFETY CHECK-OUT:** After correcting the original service problem, perform the following safety checks before releasing the set to the customer.

1. Check the area of your repair or unsoldered or poorly soldered corrections check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high wattage resistors.
3. Check that all control knobs , covers, ground straps, and mounting hardware have been replaced. Be absolutly certain that you have replaced all the insulators.
4. Check the +B and HV to see they are at the values specified. Make sure your instruments are accurate, be suspicious of your HV meter if sets always have low HV.
5. Check the all metal parts exposed to the operator for AC Leakage. The AC Leakage current must not exceed 3.5 mA. Leakage current can be measured by a commercial leakage tester such as the Simpson 229 or RCA WT-540A.

Never return a monitor which does not pass the safety check until the fault has been located and corrected.

# SPECIFICATIONS

## Mechanical Description

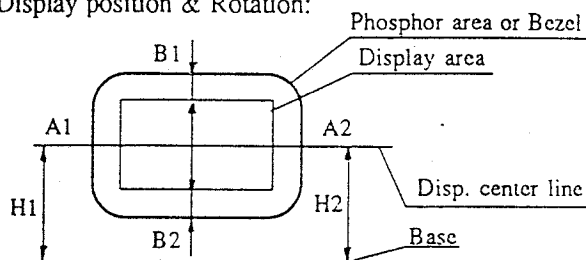
### Dimensions

Height: 505.5 mm  
 Width: 488.0 mm  
 Depth: 520.0 mm  
 Net weight: 36 Kg (Approx.)  
 Picture tube: Size 20" (19V)  
 Phosphor B22  
 Persistence Short  
 Phosphor trio pitch 0.31 mm  
 Def. angle 90 deg.  
 Transmission 50 %

### Condition of Performance inspection

Display size: 360  $\pm$ 8.0mm (H)  
 270  $\pm$ 6.0mm (V)  
 Brightness: 45 Ft-L  
 Display pattern: 17 lines (H) x 13 lines (V)  
 Cross hatch  
 Power supply: AC220V (RMS)

### Display position & Rotation:



Position  $|A1-A2| \leq 5.0$  mm  
 $|B1-B2| \leq 5.0$  mm  
 Rotation  $|H1-H2| \leq 3.0$  mm

Linearity:  $\pm 7$  % Max. each average character size  
 Geometry:  $\pm 2$  % Max. of standard display size  
 Jitter: Within 0.1 mm (Non visible at 45cm)

### White balance:

$X=0.280\pm0.03$ ,  $Y=0.290\pm0.03$  at 45 Ft-L  
 $X=0.280\pm0.05$ ,  $Y=0.290\pm0.05$  at 10 Ft-L

### Video Amp:

Max. output voltage 35 Vp-p  
 Rise/Fall time Max. 5 nS at 25 Vp-p

CRT anode voltage: 27.0 KV

## Environment

### Operationg

Temp.: 0 to 40 °C  
 Humid.: 20 to 90 %  
 Altitude: 3000 m (914 ft)

### Non operating

Temp.: -20 to 60 °C  
 Humid.: 20 to 90 %  
 Altitude: 10000 m (3048 ft)

## Electrical Performance

Power supply  
 Input voltage: AC100-120/220-240V  
 Input frequency: 50/60 Hz  
 Input current: 2.6 A (RMS) Max. at AC100V  
 Leak current: 3.5 mA Max. at AC240V  
 Power consumption: 150 W Max.

## Input Signal & Interface

Based on RS343A

| Signal             | R, G, B        | CS           | CV             | HD/VD        |
|--------------------|----------------|--------------|----------------|--------------|
| Impedance          | 75 $\Omega$    | 470 $\Omega$ | 75 $\Omega$    | 470 $\Omega$ |
| Level              | 0.714V         | 1.0-5.5Vp-p  | 1.0Vp-p        | 1.0-5.5Vp-p  |
| Rise/Fall          | 3nS max.       |              | 3nS max.       |              |
| Polarity           | Positive       | Posi/Nega    | Posi/Nega      | Posi/Nega    |
| Max. input voltage | -2.5V to +2.5V | 0V to 5.0V   | -2.5V to +2.5V | 0V to 5.5V   |

- #1: 3 lines input: Sync on Green Composite video  
 Sync level 0.3Vp-p  $\pm$ 10% (Negative)  
 #2: 4 lines input: R, G, B & Composite Sync  
 #3: 5 lines input: R, G, B & Sepalated H-Sync, V-Sync  
 Both BNC and D-Sub connector applicable

### Adjustment controls

Ext. BRIGHT V-SIZE, V-SHIFT  
 CONTRAST P-AMP, P-PHASE  
 H-SIZE, H-SHIFT H-STRT, V-STRT

Int. H-POSI PIN BAL  
 FH MAX PIN PHASE  
 FH MIN PARA CORR  
 PIN LIMIT PIN UP  
 HV-ADJ R-BIAS  
 V-FOCUS B-BIAS  
 V-TOP G-BIAS  
 V-BOTTOM R-DRIVE  
 R-TRACKING G-DRIVE  
 G-TRACKING B-DRIVE  
 B-TRACKING G2  
 S-BRIGHT FOCUS 1,2  
 MAX CONT H-STAT  
 MIN CONT BRIGHT  
 V-LIN 1,2

## 1. PRECAUTIONS

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### 1.1 CRT Replacement

Extreme care should be used in handling the CRT as rough handling may cause it to implode due to high vacuum pressure. Do not nick or scratch glass or subject it to any undue pressure in removal or installation. Use goggles and heavy gloves for protection. Be sure to disconnect the monitor from all external power sources. Discharge the CRT by shorting the anode connection to chassis ground (Not cabinet or other parts) before CRT removing. The CRT must be replaced with the same type of the CRT for implosion protection and X-ray protection. Do not remove the deflection yoke and / or convergence / purity rings. The new CRT and deflection yoke are matched at the factory, which includes all required convergence / purity adjustment.

### 1.2 Power Transistor Replacement

When replacing a power transistor with heatsink, silicone grease should be applied evenly to the transistor and heatsink. The transistor mounting nuts must be tight before soldering the transistor leads. These insure proper cooling and electrical connections and mechanical security. Non-compliance these instructions can result in failure of the transistor and / or related components.

### 1.3 Component Removal

When removing a component from a circuit board, care should be taken to prevent lifting of the coil from a circuit board. An iron temperature should be controlled to the proper temperature. Apply the iron only long enough to melt the solder and draw it away.

### 1.4 X-Radiation

Warning: The only potential source of X-Radiation is the picture tube. However when the high voltage circuitry is operating properly there is no possibility of X-Radiation problem. The basic precaution which must be exercised is to keep the high voltage at the following factory - recommended level 27 KV.

Note: It is important to use an accurate periodically calibrated high voltage meter.

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## 2. OPERATIONAL CHECKS & ADJUSTMENTS

### 2.1 General

The following procedures are provided to check the operation of the monitor and perform re-adjust after servicing and component replacement.

Variable control operation will be abbreviated as follows.

CCW: Counter clock wise rotation

CW: Clock wise rotation

———— CAUTION ————

The CRT and deflection yoke with the convergence / purity ring assembly are matched and aligned and locked. So, do not attempt to adjust convergence or purity. No procedure is provided.

### 2.2 Equipment Required

Signal generator VG807A or VG809S Astro Design Inc. or equivalent.

Light output meter: Minolta Color Analyzer II or equivalent.

High voltage meter

Precision digital volt meter (Multi meter) (DVM)

Above Equipment should be calibrated.

### 2.3 Common Return check

———— CAUTION ————

Do not connect power / signals to the monitor.

Measure between chassis and power inlet earth terminal.

### 2.4 Safety Related Adjustment

If the marked  on the Schematic diagrams or Parts list (HV Adjustment or HV Curcuit) is/are replaced, the HV Adjust Control (RV451) and/or HV Protect Control (RV454) must be replaced and readjusted. And also RV451 and R454 must be sealed so it can not be readjusted.

**CAUTION:** RV451 shall be replaced when T451, U451, R459, R460, V1 (CRT) is/are replaced.  
RV454 shall be replaced when T451, U452, R465, V1 (CRT) is/are replaced.

To maintain original product safety design standards relative to X-radiation, these parts must be replaced with identical part number shown in Electrical Parts List.

#### **HV Protect Adjustment method:**

Connect common probe of HV Meter to chassis and (+) probe to CRT Anode with power off. And connect a 2M $\Omega$  variable resistor to parallel connection with R460, because RV451 have been sealed and can not be adjusted to triggered value of HV Protection (HV Hold-down) Circuit. Before conducting this adjustment, the new HV Protect Control (RV454) should be turned CCW fully and the 2M $\Omega$  variable resistor should be set to maximum value. After above setting, turn on the monitor, and adjust the HV to 32KV by the 2M $\Omega$  variable resistor and then turn the new RV451 CW slowly until HV Hold-down circuit is triggered. Then power off the monitor and should be sealed the new RV451 with silicone bond and plastic cap. And power on and confirm that HV Hold-down triggers at 32 $\pm$ 2KV by turning the 2M $\Omega$  variable resistor from maximum value slowly.

#### **HV Adjustment method:**

Connect a HV Meter as same as HV Protect Adjustment. Adjust the HV to 27 $\pm$ 0.5KV by turning the new RV451 and should be sealed with silicone bond and plastic cap.

## 2.4 ADJUSTMENT PROCEDURE

These adjustments are listed as independent items, however, the success of these adjustments depends on performing them following sequence.

### 2.4.1 H/V Sweep Adjustment

| No. | ITEM                                     | MODE               | ADJUST CONTROL                                           | ADJUSTMENT PROCEDURE                                                                                                                                                                                                                                                                                                               | VIDEO PATTERN |
|-----|------------------------------------------|--------------------|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 1   | H-HOLD                                   | 64KHz<br><br>28KHz | RV302 (FH MAX)<br><br>RV301 (FH MIN)                     | 1. Release the short jumper Pin 1 and Pin 2 on JC302 on MCU BOARD.<br>2. Adjust the RV302 on MCU BOARD until no horizontal movement.<br><br>3. Same as 64 KHz Mode by RV301.<br>4. Set the short jumper on JC302.                                                                                                                  | Full White    |
| 2   | RASTER POSI<br><br>RASTER SIZE           | 74KHz<br><br>74KHz | SCREEN<br>RV401 (H-POSI)<br>SW401<br><br>RV306 (PIN LIM) | 1. Adjust the SCREEN until the back raster appears, then adjust the H-Raster Position to center by RV401 on DEF BOARD.<br>2. If not possible to adjust, move the SW401 to another position, then readjust by Item 1.<br><br>3. Adjust the Max. H-Raster Size by RV306 on MCU BOARD until the saturation state of Horizontal sweep. | Cross Hatch   |
| 3   | H-SIZE<br>H-POSI<br><br>V-SIZE<br>V-POSI | 57KHz              | MCU<br><br>MCU                                           | 1. Adjust the H-SIZE and H-POSI roughly by MCU message on LCD.<br><br>2. Adjust the V-SIZE and V-POSI roughly by MCU message on LCD.                                                                                                                                                                                               | Cross Hatch   |
| 4   | DISTORTION (MAIN)                        | 57KHz              | MCU (PIN PHASE)<br>(SIDE-PIN)                            | 1. Adjust the trapezoidal and side-pin distortion by MCU message on LCD.                                                                                                                                                                                                                                                           | Cross Hatch   |
| 5   | DISTORTION (SUB)                         | 57KHz              | RV305 (PARA-CORR)<br>RV304 (PIN-BAL)<br>RV303 (PIN-UP)   | 1. Adjust the Parallel / Pin-Ballance / Pin-Up distortion by MCU message on LCD.                                                                                                                                                                                                                                                   | Cross Hatch   |
| 6   | H-SIZE<br>H-POSI<br>V-SIZE<br>V-POSI     | 57KHz              | MCU                                                      | 1. Readjust the specified H-SIZE / H-POSI and V-SIZE / V-POSI by MCU message on LCD BOARD.                                                                                                                                                                                                                                         | Cross Hatch   |

| No. | ITEM             | MODE       | ADJUST CONTROL      | ADJUSTMENT PROCEDURE                                                                                                                                                                                                                           | VIDEO PATTERN |
|-----|------------------|------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 7   | Total Adjustment | Paradise   | RV201, 202 (V-LINE) | <ol style="list-style-type: none"> <li>1. Perform the adjustment from No.3 to No. 6 (Except No.5)</li> <li>2. Adjust the V-Linearity RV201 and RV202 on DEF BOARD.</li> <li>3. Readjust the V-SIZE by MCU message on LCD.</li> </ol>           | Cross Hatch   |
| 8   | Total Adjustment | All Timing |                     | <ol style="list-style-type: none"> <li>1. Perform the adjustment from No.3 to No.6 (Except No.5) by following sequence.<br/><br/>VGA(350L) → VGA(480L) → VGA(400L)<br/>8514 → SV980 → SV990 → VESA(48K)<br/>VESA(38K) → MACII → XJS</li> </ol> | Cross Hatch   |
| 9   | V-STAT           | 57KHz      | RV251, 252          | <ol style="list-style-type: none"> <li>1. Adjust the Vertical Top and Bottom convergence by RV251, 252 on MCU BOARD.</li> <li>2. Adjust the Vertical static convergence by MCU message on LCD.</li> </ol>                                      |               |
| 10  | H-STAT           | 57KHz      | RV801               | <ol style="list-style-type: none"> <li>1. Adjust the Horizontal static convergence by RV801 on CRT Socket BOARD. (Coarse Adjustment)</li> <li>2. Adjust the Horizontal static convergence by MCU message on LCD. (Fine Adjustment)</li> </ol>  | Cross Hatch   |

MCU: Micro Computer Unit.  
LCD: Liquid Crystal Display

## 2.4.2 White Balance adjustment and etc.

| No. | ITEM       | MODE  | ADJUST CONTROL                                                                                                                                                                                                                                                    | ADJUSTMENT PROCEDURE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | VIDEO PATTERN |
|-----|------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 1.  | Warm Up    | 57KHz |                                                                                                                                                                                                                                                                   | 1. Warm up for 30 minutes.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Full White    |
| 2.  | Degauss    | 57KHz |                                                                                                                                                                                                                                                                   | 1. Degauss the CRT before adjustment by de-magnetizer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Full White    |
| 3.  | Initialize | 57KHz | RV561<br>(Ext.BRIGHT)<br><br>RV560<br>(Ext.CONT)<br><br>RV606<br>(Sub-BRIGHT)<br><br>RV601,602<br>(MAX CONT<br>MIN CONT)<br><br>RV603,604,<br>605)<br>(Video DRIVE)<br><br>RV610,611,<br>612)<br>(Video BIAS)<br><br>RV607, 608.<br>609)<br>(Video TRA-<br>CKING) | 1. Set the Ext.Brightness RV561 to Max.<br>by turning CW.<br><br>2. Set the Ext.Contrast RV560 to Max.<br>by turning CW.<br><br>3. Set the Sub-BRIGHT RV606 to Max.<br>by turing CW.<br><br>4. Set the MAX CONT RV601 amd MIN<br>CONT RV602 to Max. by turning CW.<br><br>5. Set the each DRIVE RV (G:RV603, R:<br>RV604, B:RV605) to Max. by turning CW.<br><br>6. Set the each BIAS RV (G:RV610, R:<br>RV611, B:RV612) to Max. by turning CW.<br><br>7. Set the each TRACKING RV (G:RV607,<br>R:RV608, B:RV609) to Max. by turning<br>CW. | Full White    |
| 4.  | BIAS       | 57KHz | FOCUS POT<br>(SCREEN)<br><br>RV610<br>(B-BIAS)<br>RV611<br>(R-BIAS)<br>RV612<br>(G-BIAS)                                                                                                                                                                          | 1. Adjust the back raster brightness to about<br>3 Ft-L by SCREEN VR, then fix the<br>weakest BIAS RV.<br><br>2. Adjust the Raster Color cordiates $X=0.280$<br>$Y=0.290$ by Bias RVs except of the weakest<br>BIAS RV (Fixed RV).<br>If not possible to adjust the specified value,<br>relesase the fixed BIAS RV and readjust to<br>specified value.                                                                                                                                                                                      | No Video      |

| No. | ITEM           | MODE     | ADJUST CONTROL                                                                       | ADJUSTMENT PROCEDURE                                                                                                                                                                                                                                                                              | VIDEO PATTERN |
|-----|----------------|----------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 5.  | G2             | 57KHz    | FOCUS PACK (SCREEN)                                                                  | 1. Adjust the RASTER Brightness to 3 Ft-L by SCREEN RV of FOCUS PACK.                                                                                                                                                                                                                             | No Video      |
| 6.  | WHITE BALLANCE | 57KHz    | RV603 (G-DRIVE)<br>RV604 (R-DRIVE)<br>RV605 (B-DRIVE)<br>RV602 (MIN CONT)            | 1. At first, adjust the Brightness to 15 Ft-L by RV602 (MIN CONT), then adjust the WHITE BALLANCE to specified Color Coordinates by RV603 (G-DRIVE), RV604 (B-DRIVE), RV605 (R-DRIVE).<br>$X = 0.280 \pm 0.03$ , $Y = 0.290 \pm 0.03$ at 15 Ft-L                                                  | Window        |
|     | TRACKING       | fv:120Hz | RV607 (G-TRACKING)<br>RV608 (R-TRACKING)<br>RV609 (B-TRACKING)<br>RV606 (SUB-BRIGHT) | 3. Decrease the brightness by Ext. BRIGHT RV to Min., adjust the Brightness to 3 Ft-L by RV606 (SUB-BRIGHT). After then, adjust the WHITE BALLANCE to specified Color Coordinates by RV607 (G-TRACK), RV608 (B-TRACK), RV609 (B-TRACK).<br>$X = 0.280 \pm 0.03$ , $Y = 0.290 \pm 0.03$ at 3 Ft-L. | Window        |
|     | MIN CONTRAST   | fv:120Hz | RV602 (MIN CONT)                                                                     | 4. If not 3 Ft-L, readjust to 3 Ft-L by RV606 (SUB-BRIGHT).<br>5. Repeat above procedure from 1 to 4 until specified Color Coordinates.                                                                                                                                                           | Window        |
|     | MAX CONTRAST   | 57KHz    | RV601 (MAX CONT)                                                                     | 6. Set the Ext. Brightness to Max. and Ext. Contrast to Min., then adjust the Brightness to 10 Ft-L by RV602 (MIN CONT).<br>7. Set the Ext. Brightness and Ext. Contrast to Max., then adjust the Brightness to 45 Ft-L by RV601 (MAX CONT).                                                      | Window        |
|     |                |          |                                                                                      |                                                                                                                                                                                                                                                                                                   |               |
| 7.  | ABL            | 57KHz    | RV453 (ABL)                                                                          | 1. Adjust the Brightness to 35 Ft-L by RV453 (ABL). At the condition of Ext BRIGHT to Max., Ext. Contrast to Max..                                                                                                                                                                                | Full White    |
| 8.  | H-STA<br>V-STA | 57KHz    | MCU                                                                                  | 1. If there are any convergence error, adjust H-STA and/or V-STA by MCU message on LCD.                                                                                                                                                                                                           | Charactor     |
| 9.  | FOCUS          | 57KHz    | FOCUS PACK                                                                           | 1. Adjust the focus by FOCUS VR.                                                                                                                                                                                                                                                                  | Charactor     |

### 3. TROUBLE SHOOTING ANALYSIS

In trouble shooting, it is necessary to observe the symptoms carefully and classify them. Before attempting to diagnose a problem, be very sure that the set is connected and adjusted for normal operation.

To do this, follow the plan showing below. When suring that, observe its performance.

#### 3.1 Sweep function failure

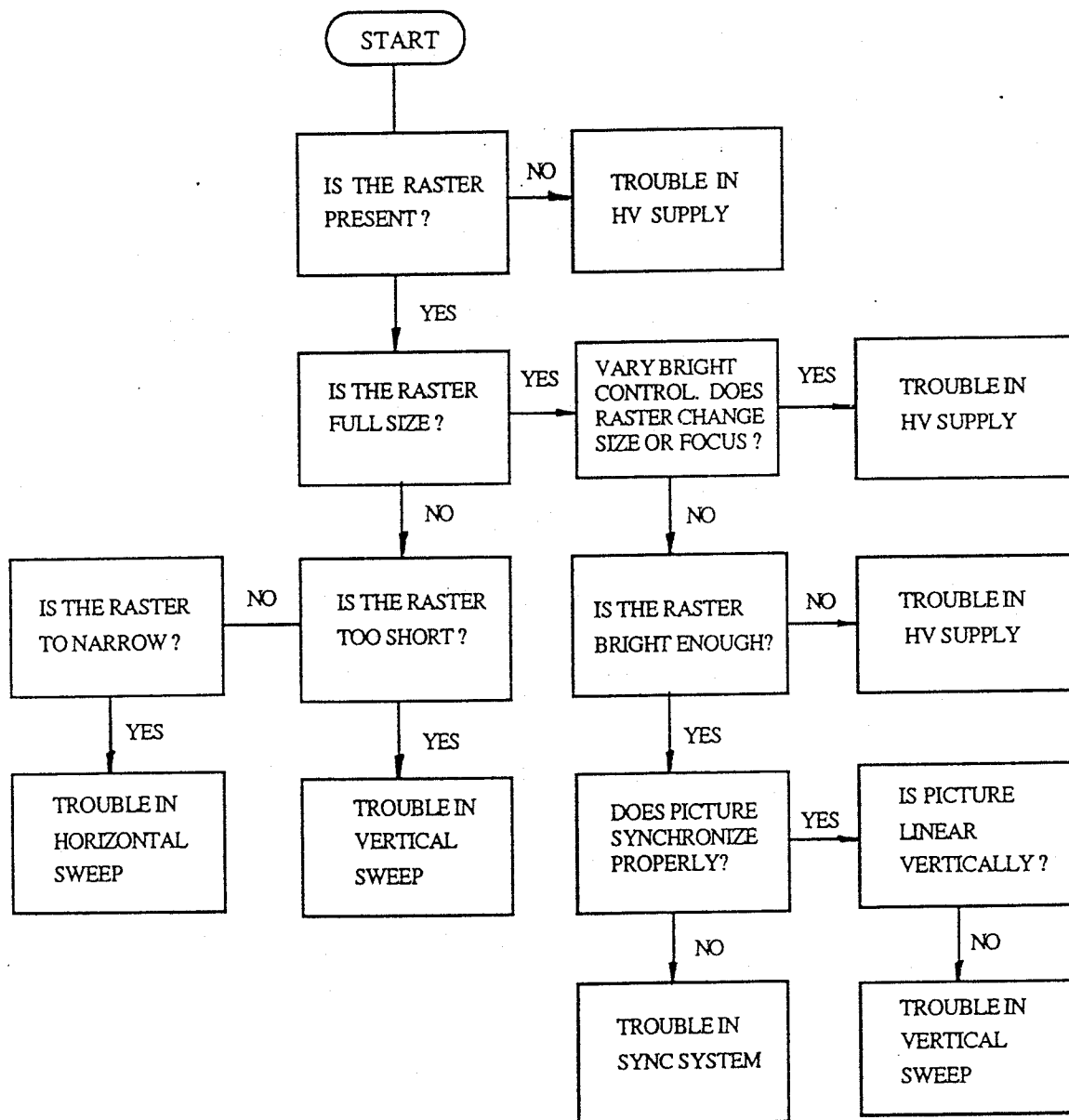
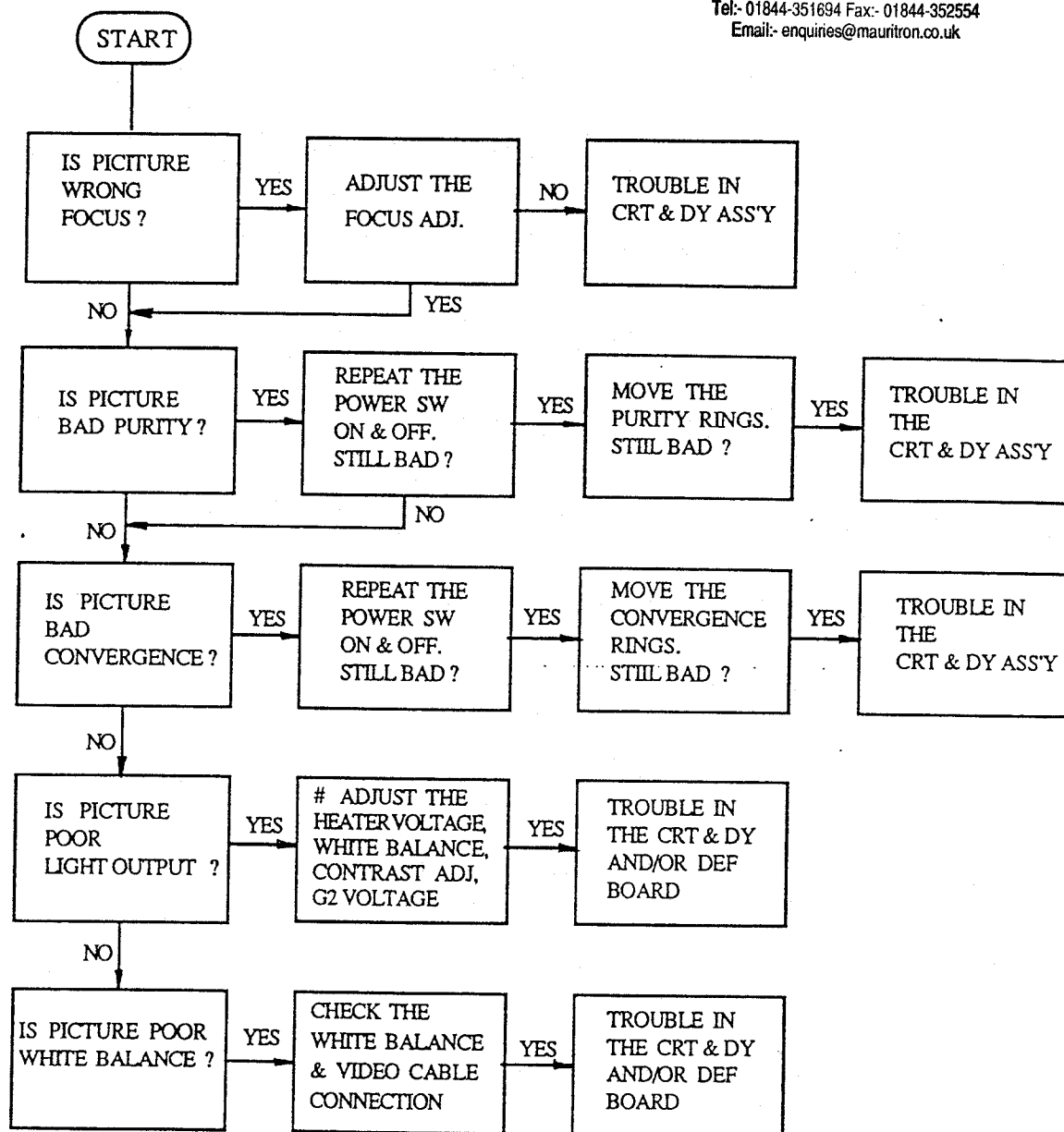


Fig. 3.1 Identifying sweep function failures

### 3.2 Color / focus failure

For Service Manuals Contact  
**MAURITRON TECHNICAL SERVICES**  
 8 Cherry Tree Rd, Chinnor  
 Oxon OX9 4QY  
 Tel:- 01844-351694 Fax:- 01844-352554  
 Email:- enquiries@mauritron.co.uk



# Heater voltage: 6.3 V  
 White Balance:  $X = 0.280 \pm 0.03$   $Y = 0.290 \pm 0.03$  at 45 Ft-L  
 G2 Voltage: 600V

Fig. 3.2 Identifying color / focus failures

### 3.3 Loss of sync failure

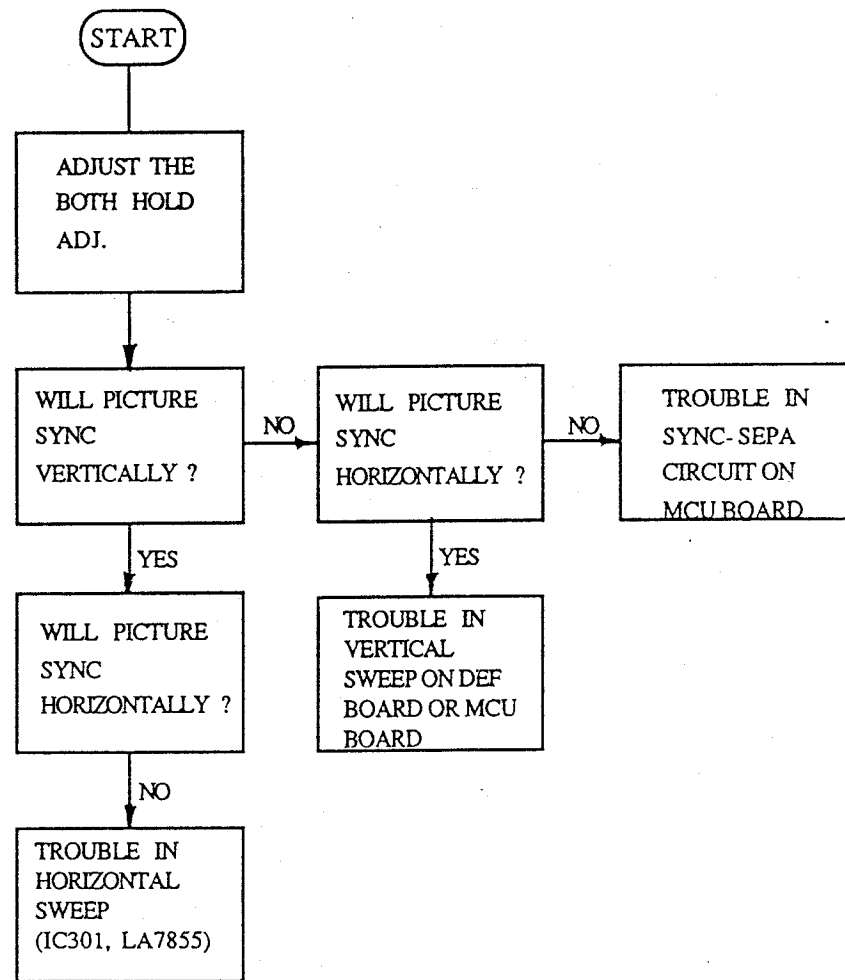


FIG. 3.3 Identifying loss of sync failure

### 3.4 Failure of size distortion position & linearity rotation

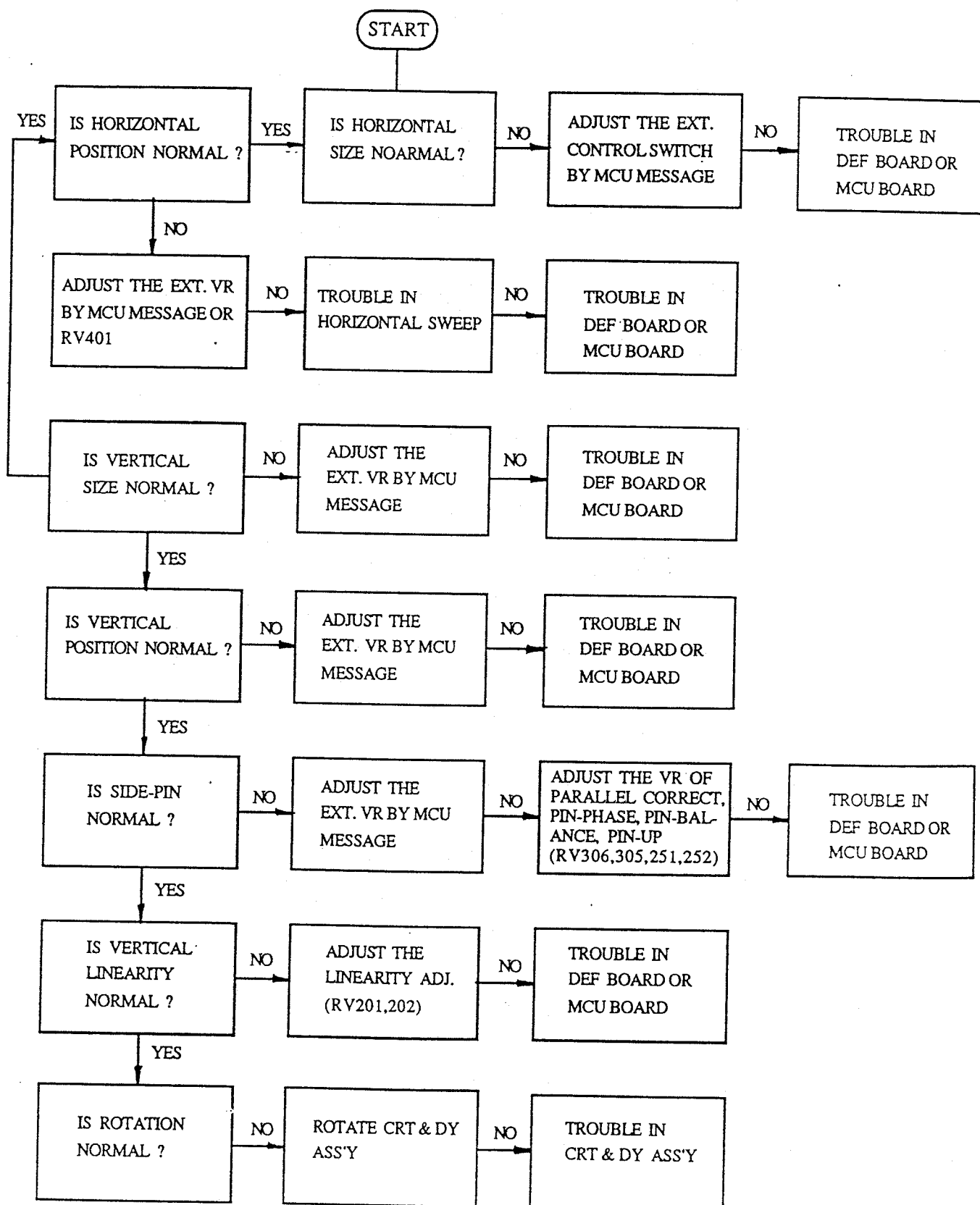


FIG. 3.4 Identifying of failure of size distortion position & linearity rotation

## 4. Circuit Descriptions

### 4.1 Switching Power Supply

This switching power supply operates 100-120Vac/220-240Vac by changing the external voltage select switch. AC input from P901 is rectified by D901 through the EMI filter and smoothed by C908 and C909. If 100-120Vac input, the rectifier D901 operates as half wave voltage rectifier. If 220-240 Vac input, the rectifier operates as a full wave bridge rectifier.

Inrush current is protected by R901. And rectified current flows to the Pin 3 of IC901 through the starter resistor R905 and R906, then switching starts. IC901 is switching controller integrated circuit. Pin 1 and Pin 2 of T902 is switching driver winding that controls the switching frequency and its pulse duty ratio. Pin 2 and Pin 3 of IC901 is output detector winding that controls the each secondary output voltage level. Normally delta-voltage of Pin 2 and Pin 3 is - 41Vpeak, if output voltage is increased, this delta voltage is increasing and switching ON duty becomes small so that each secondary output voltage is controlled to be low. +B1 (+160V) line has OCP/OVP (Over Current Protector / Over Voltage Protector). If the +B1 current is exceed 0.65A, this current is detected by Pin1 and Pin 2 of IC904, then triggered the thyristor Q902 by output divided voltage of Pin 7. IC904 is designed as protection for over load horizontal sweep and high voltage supply (FBT Supply).

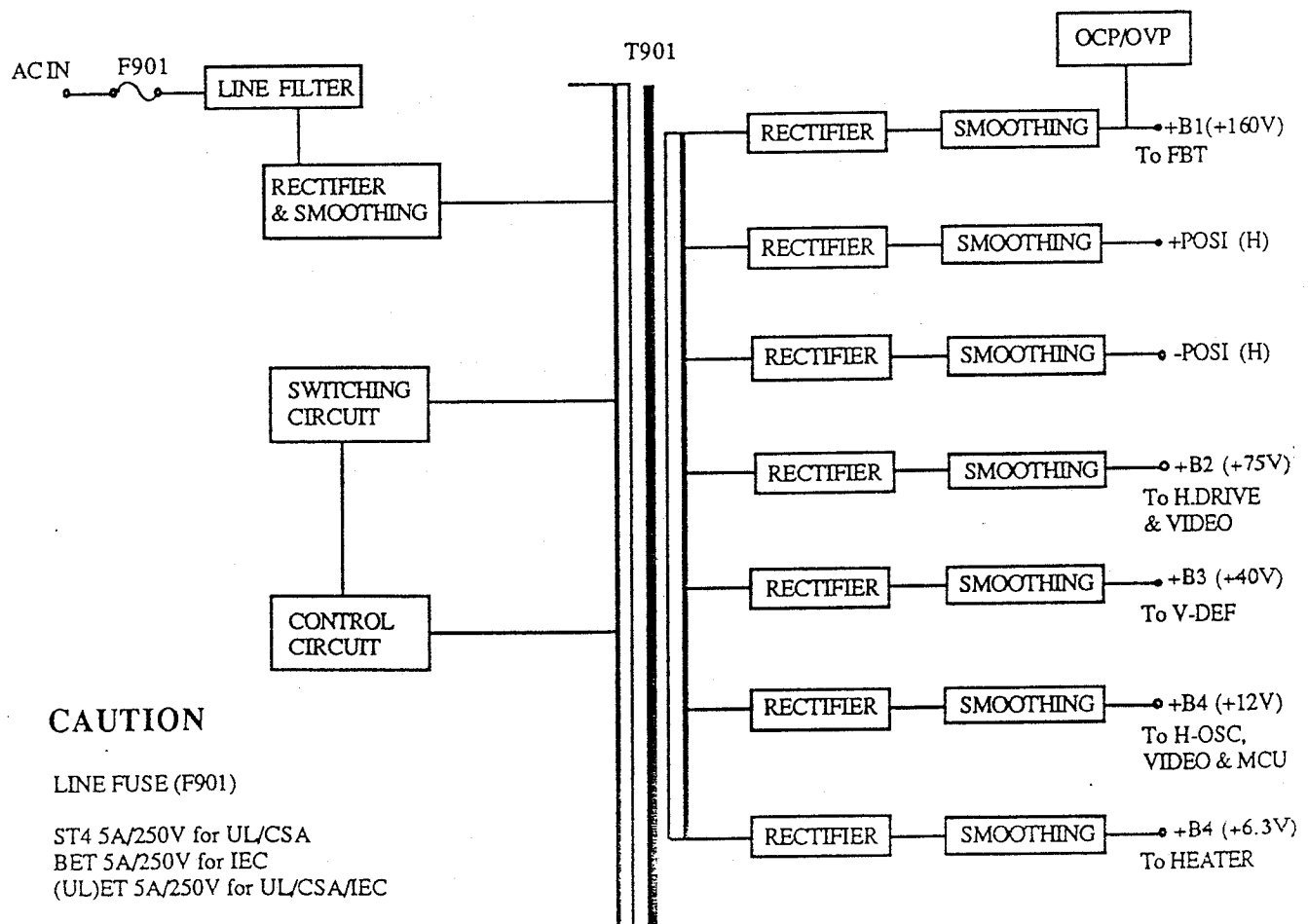


Fig. 4.1 Switching Power Supply

## 4.2 Horizontal Deflection

### 4.2.1 Horizontal Oscillation

Horizontal oscillation is almost controlled by IC301 (LA7855) on the MCU Board. This IC consists of horizontal phase shifter, sawtooth generator, AFC, horizontal oscillator and X-ray protector. The horizontal sync signal is applied to Pin 1 of pulse shifter section. This pulse shifter consists of three blocks, horizontal pulse polarity detector, pulse shifter (Mono stable multi-vibrator), and quasi-sync signal generator. The output of phase shift pulse is applied to AFC section. The horizontal flyback pulse from T451 is applied to Pin 4 of IC301 sawtooth generator section. At this section, sawtooth wave that is synchronized with flyback is generated and applied to AFC section. At AFC section, the pulse detection between sync pulse and sawtooth wave is done, and controls the horizontal oscillator section. Horizontal frequency can be changed by RV301 (FH MAX) and RV302 (FH MIN) which are connected to Pin 10. Output of horizontal pulse from Pin 12 is applied to horizontal drive stage on the Deflection Board.

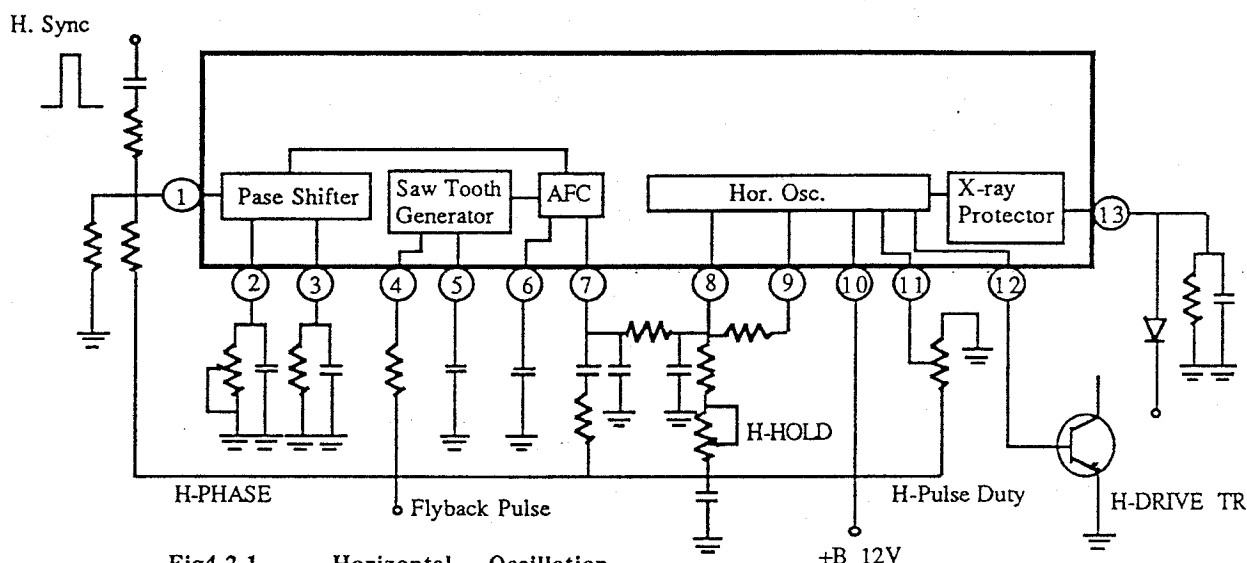


Fig4.2.1 Horizontal Oscillation

### 4.2.2 Horizontal Sweep and High voltage Drive

Horizontal sweep and High voltage Drive pulse from MCU Board are applied to the gate of Q401, Q453 and amplified to output stage through the Drive transformer of T401, T452. Horizontal deflection power and High voltage generator are separated to regulate the high voltage. And each output stage transistor Q405, Q454 operate simply as a switch and this switching generates a sawtooth current through the deflection coil and flyback pulse.

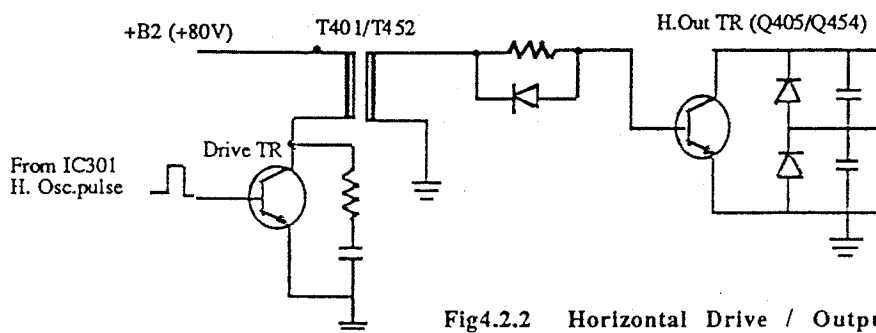
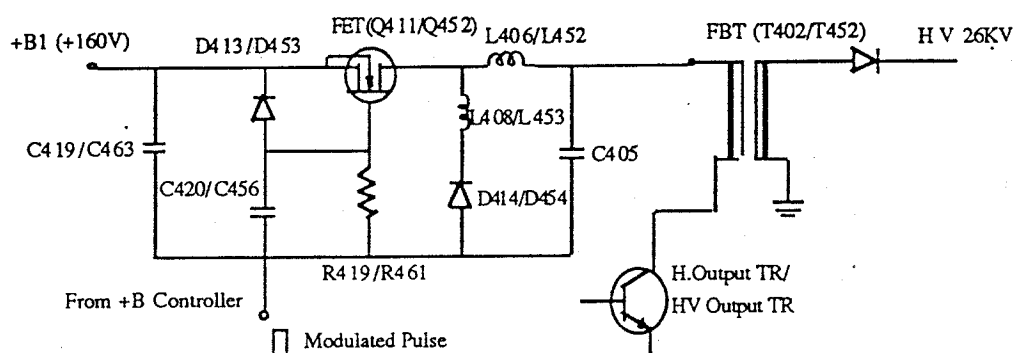


Fig4.2.2 Horizontal Drive / Output Circuit

#### 4.2.3 +B Chopper circuit (H. Deflection and FBT Power Supply)

The horizontal deflection and FBT power supply voltage are regulated by chopper FET of Q411, Q453. The output of +B1 (+160V) from power supply board are applied to source of Q411, Q453, and these DC voltages are chopped by modulated pulse from +B1 controller SMC Board U401, U451, and output of drain voltages are smoothed by L406/L452 and C421/C457. And each regulated voltages are applied to Horizontal output transformer and Flyback transformer. These voltages controls horizontal sweep level (H-SIZE) and high voltage level.



#### 4.2.4 H. Output Diode Modulator

Horizontal output stage is consist of Diode Modulator and Pulse width Modulator. It can be provided the required side pin adjusting and also trapezoidal distortion adjusting. These control signal are applied from MCU Board. The modulated pulse is generated by IC302 (TEA2031) and also IC302 is controlled by Micro Controller Unit IC101 (M37450).

### 4.3 Vertical Deflection

The vertical sync pulse applied to Pin 18 the vertical trigger section of IC301 on the MCU Board. In this section, only the front edge of the pulse is taken out and is applied to vertical oscillator section. The vertical free run frequency is decided by R256 and C252 on the MCU Board. And then the output Pin 16 of oscillation pulse is applied to ramp generator section of IC201 on the Deflection Board and amplified to Pre-amp stage. The output of amplified ramp wave is applied to vertical output stage which consist of Darlington transistor of Q214, Q213 and Q211, Q212. And then the ramp current required flows through the vertical deflection coil.

RV201 and RV202 correct the vertical screen linearity by adding a parabolic wave to the ramp wave.

Q216 (FET) boosts up the supply voltage of the vertical output to 80Vo-p at the flyback period so as to reduce the retrace time.

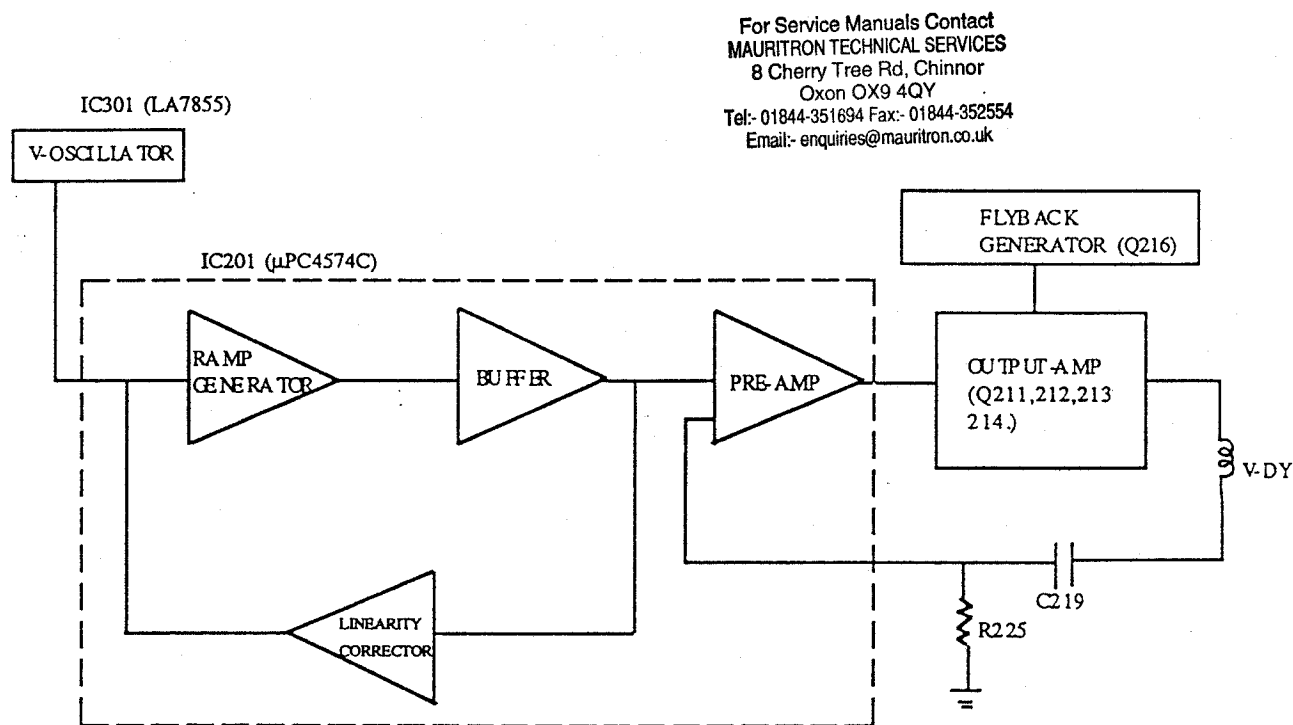


Fig.4.3 Vertical Deflection

#### 4.4 Video Board

Each video signal R, G, B are terminated by  $75\ \Omega$  and applied to Pre-amp of U601 through the coupling capacitor C606, C607, C608 and also sync signal of H/V are separated from composite video on Green by sync separator circuit. U601 is consist of contrast, brightness adjustment and DC restorer circuit. The Contrast/Brightness adjustments are located to lower of front bezel.

Each output gain of U601 is adjusted by R, G, B drive pot to define the white balance of CRT screen, and after that, this signal is erased the retrace line by H/V blanking pulse and applied to IC603, IC604, IC605. These IC (VPA) have 23 dB video gain, and output voltage is amplified to 40Vp-p, which applied to each CRT cathode through the coupling capacitor C638, C639, C640 and DC stored clamp circuit, and also each output bias are adjusted and decide the back raster level and white balance.

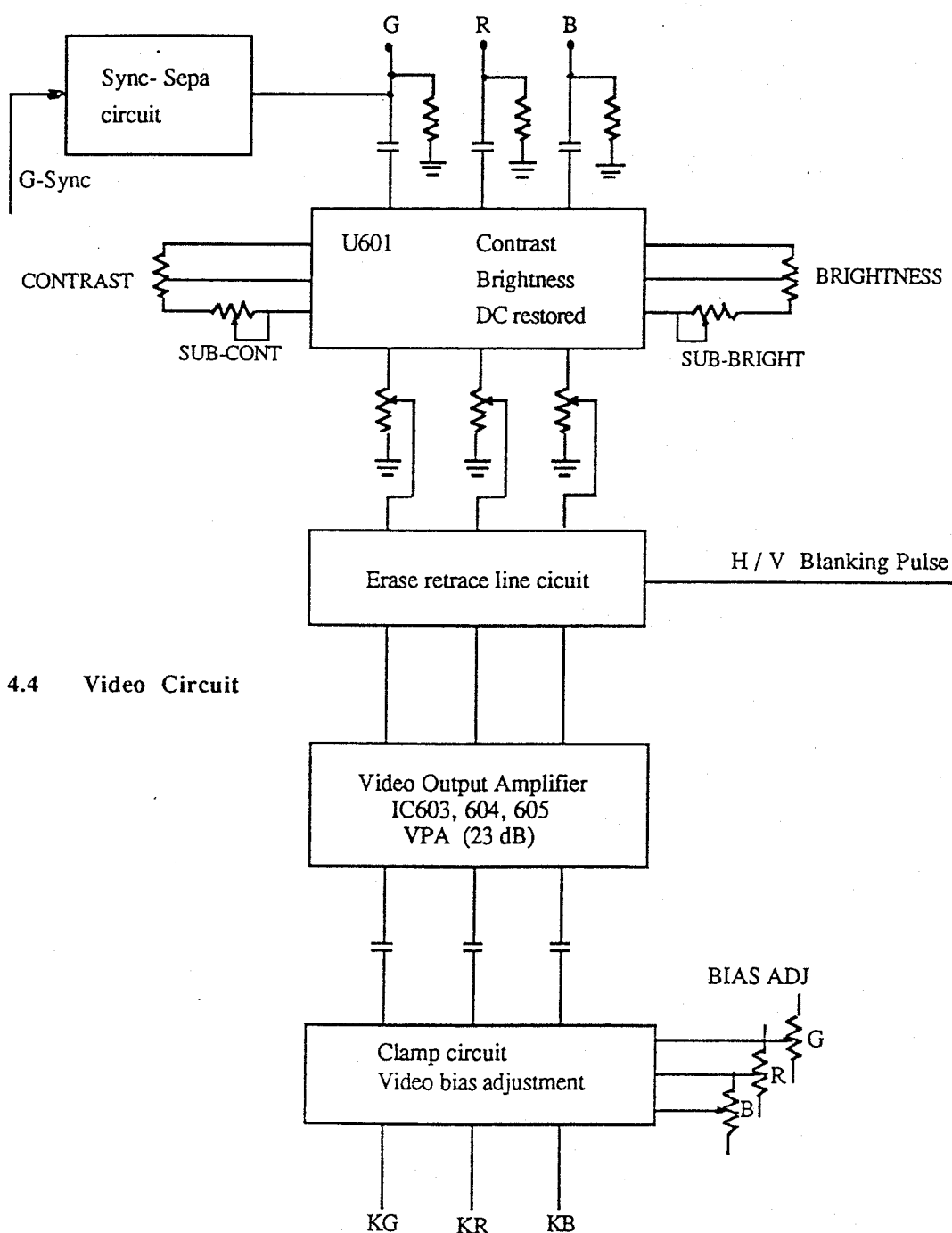
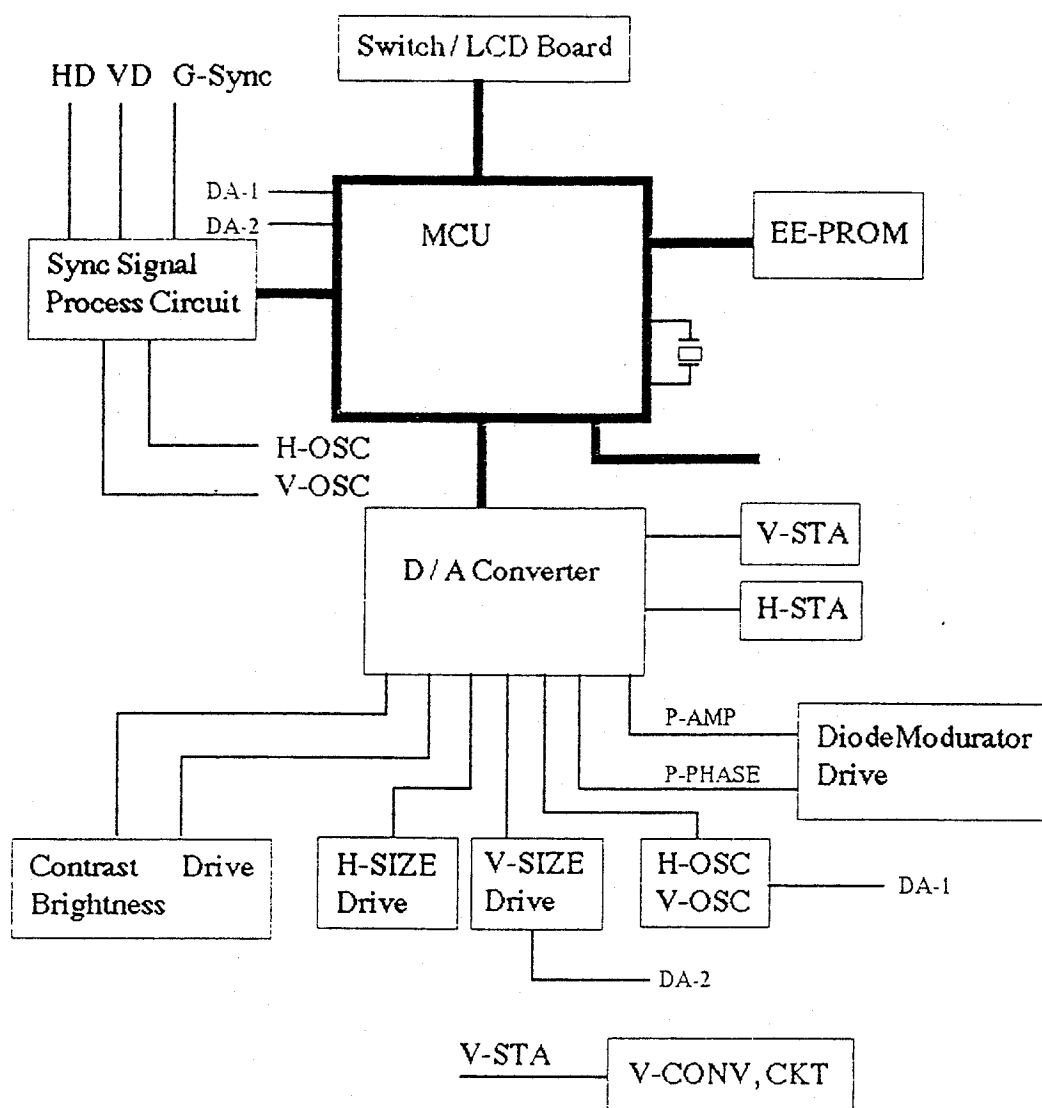


Fig. 4.4 Video Circuit

## 4.5 MCU Board



### 4.5.1 H / V Sync Signal Processing Circuit

As input sync signal HD, VD, CS are from 1Vp-p to 5Vp-p, these sync signals are transferred to logic level of C-MOS by switch circuit of Q108, Q109 (HD) and Q111, Q112 (VD). And also these signals are arranged their porarity by IC108 and IC109. After then these are applied to MCU (Micro Control Unit)

### 4.5.2 MCU (Micro Control Unit)

This MCU configured as One-chip micro computer provided with ROM and RAM. It can count the horizontal frequency and vertical frequency precisely using the crystal oscillator as a time base.

---

The vertical frequency interrupts to MCU directly by front edge of the vertical pulse. The MCU decide the input H/V sync signal by the each frequency, porarity and their signal conditions, so that these data is transfered to D/A converter IC105 by recieved memorised data from EE-PROM IC103 to adjust the screen image of H/V size, position, Pin-Amp, Pin-Phase, contrast and Brightness.

#### 4.5.3 SW / LCD Circuit

This model provides LCD (Liquid Crystal Display) for easy to find the Pre-set or adjustment condition. And also provides small botton to access ENTER, MODE, ESCAPE, D-SUB/BNC, and two ratary switch A and B. So it can adjusts screen image and defines the lable.

#### 4.5.4 V-Static Convergence Circuit

This cicuits generates constant amplified vertical ramp wave, this ramp current applies to NTC (Neck Twist Coil) to adjust the Top and Bottom convergence. And also DC current applies to NTC to adjust the static convergence.

## 5. Signal Timing

VGA (350 LINE) MODE

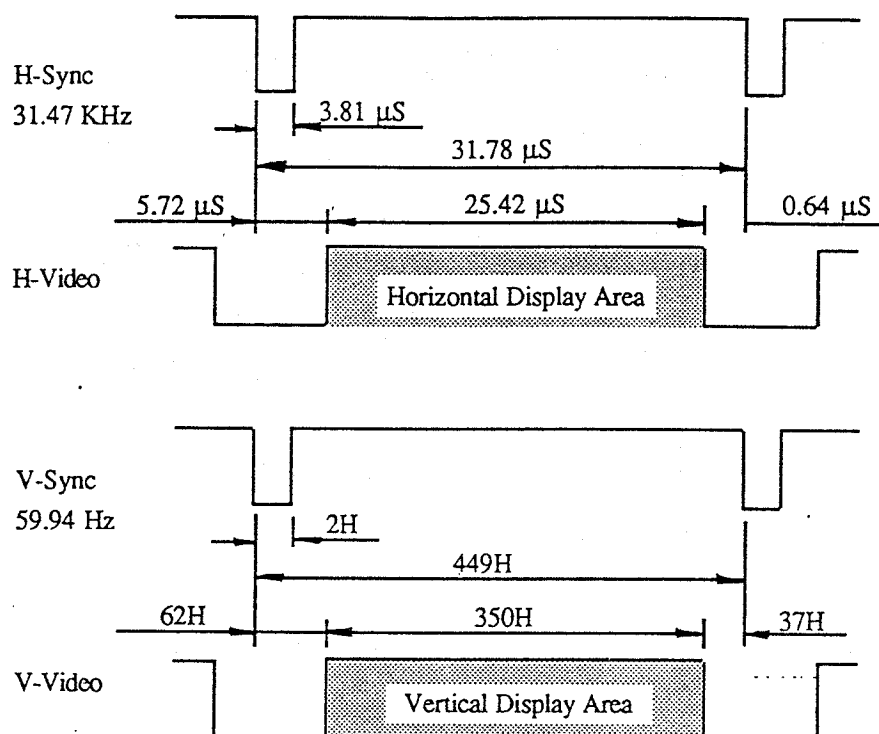
640 DOT X 350 LINE

Horizontal Freq.: 31.47 KHz

Vertical Freq.: 70 Hz

(Non-interlace)

Clock Freq.: 25.175 MHz



VGA (480 LINE) MODE

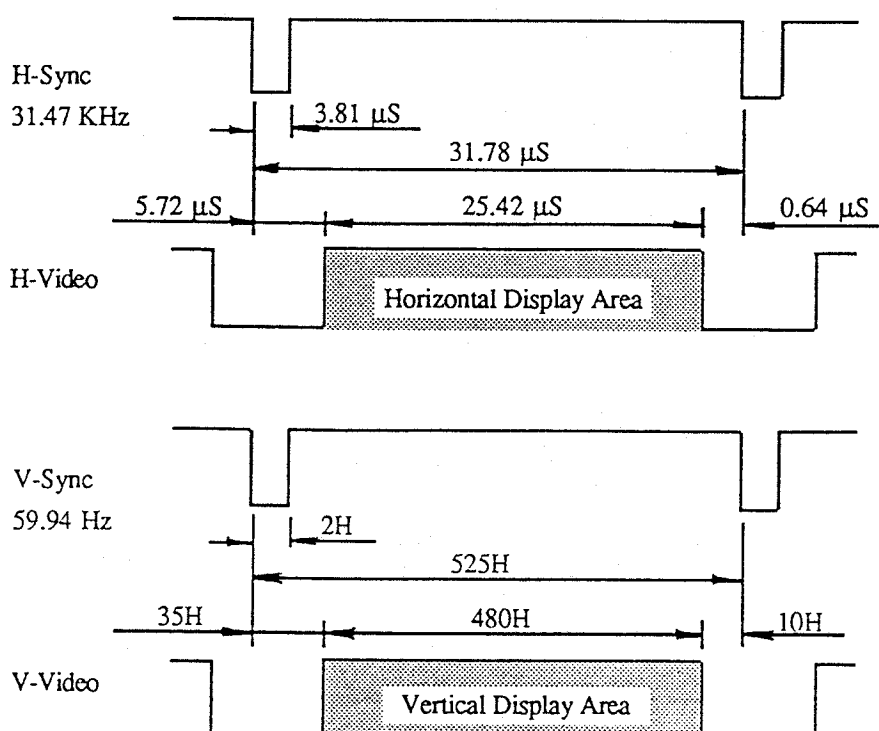
640 DOT X 480 LINE

Horizontal Freq.: 31.47 KHz

Vertical Freq.: 59.94 Hz

(Non-interlace)

Clock Freq.: 25.175 MHz

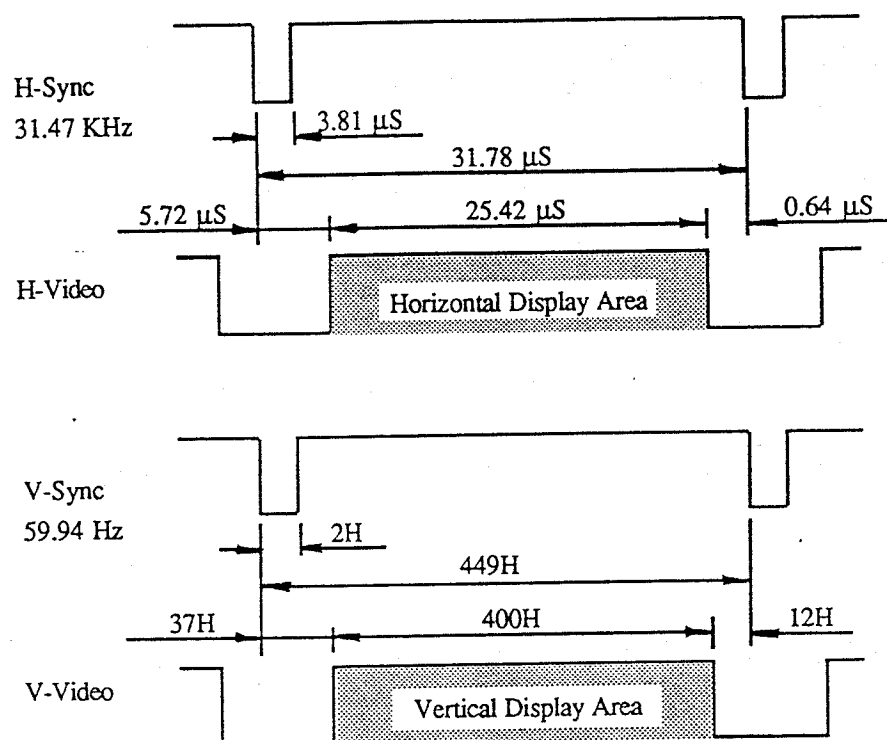


# VGA (400 LINE) MODE

640 DOT X 400 LINE

Horizontal Freq.: 31.47 KHz  
Clock Freq.: 28.32 MHz

Vertical Freq.: 70 Hz (Non-interlace)

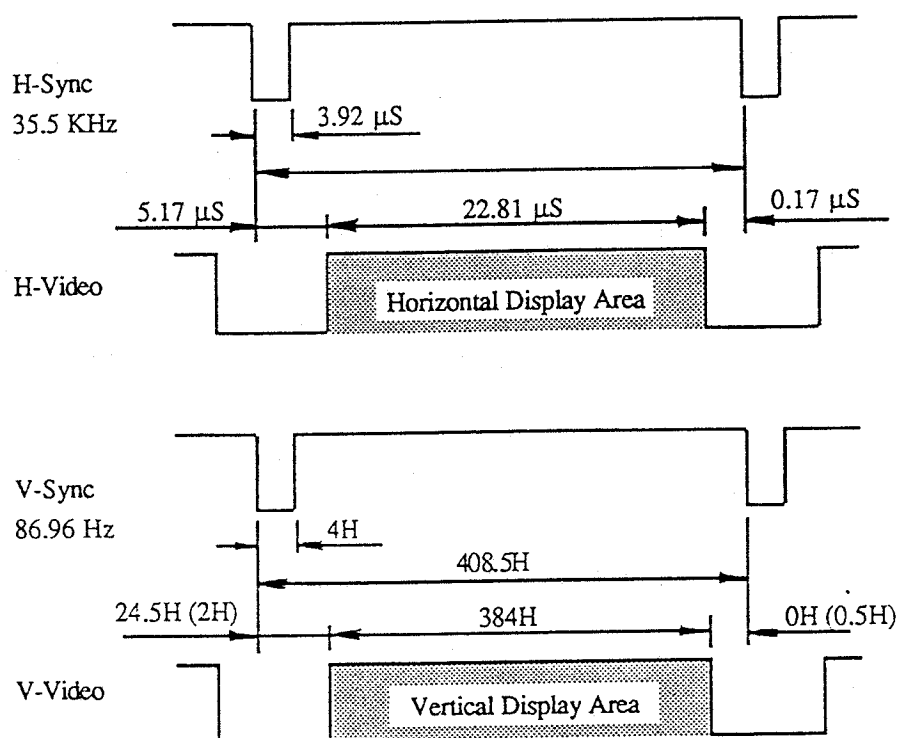


# 8514 (384 LINE) MODE

1024 DOT X 384 LINE

Horizontal Freq.: 35.5 KHz  
Clock Freq.: 44.9 MHz

Vertical Freq.: 86.96 Hz (Interlace)



# Paradise (600 LINE) MODE

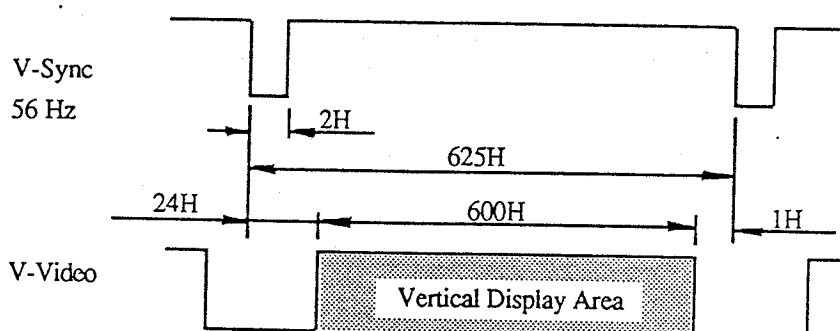
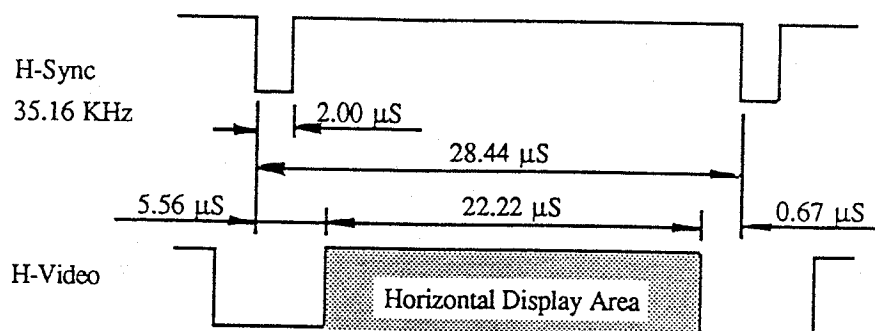
800 DOT X 600 LINE

Horizontal Freq.: 35.16 KHz

Vertical Freq.: 56 Hz

( Non-interlace )

Clock Freq.: 36.00 MHz



# SV-980 (48 KHz) MODE

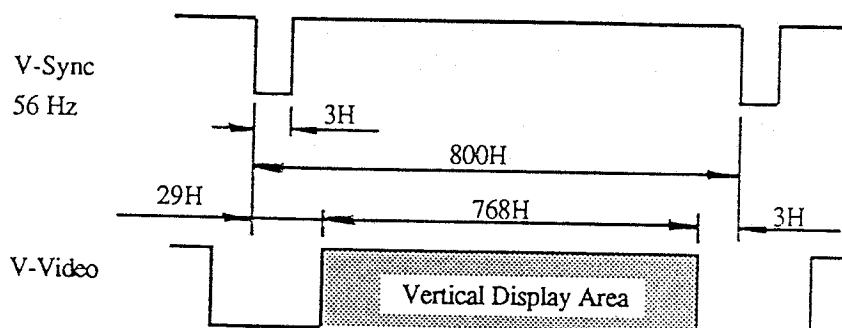
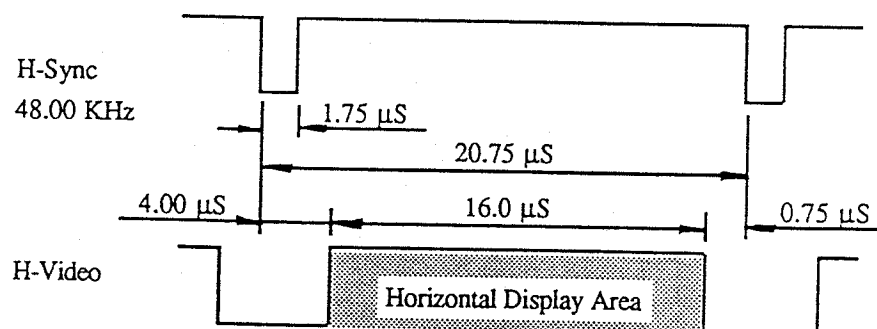
1024 DOT X 768 LINE

Horizontal Freq.: 48.00 KHz

Vertical Freq.: 60 Hz

( Non-interlace )

Clock Freq.: 64.42 MHz

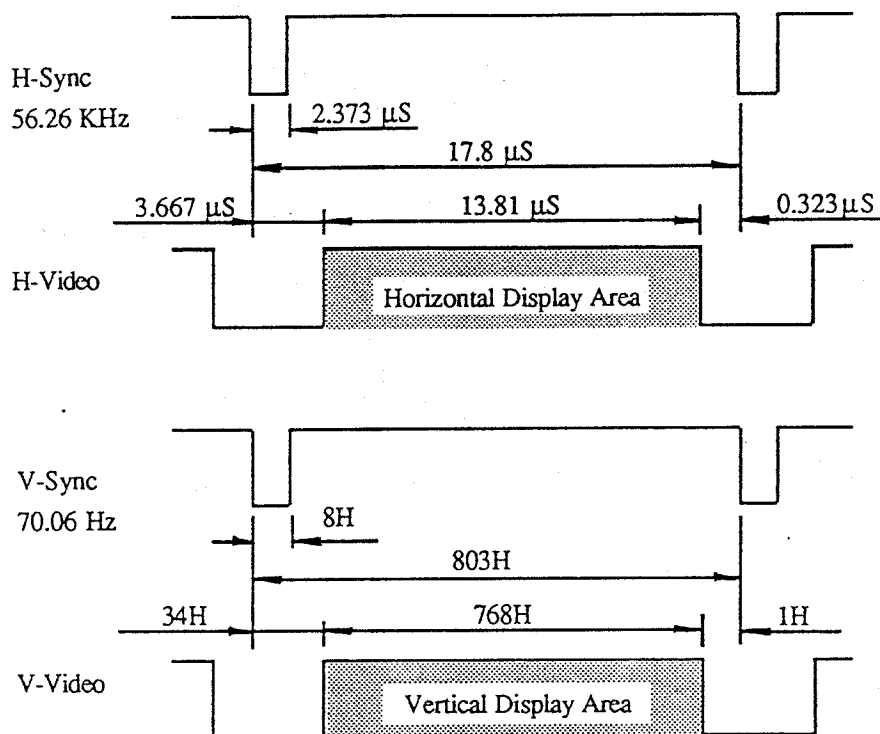


# 57 KHz MODE

1024 DOT X 768 LINE

For Service Manuals Contact  
MAURITRON TECHNICAL SERVICES  
8 Cherry Tree Rd, Chinnor  
Oxon OX9 4QY  
Tel:- 01844-351694 Fax:- 01844-352554  
Email:- enquiries@mauritron.co.uk

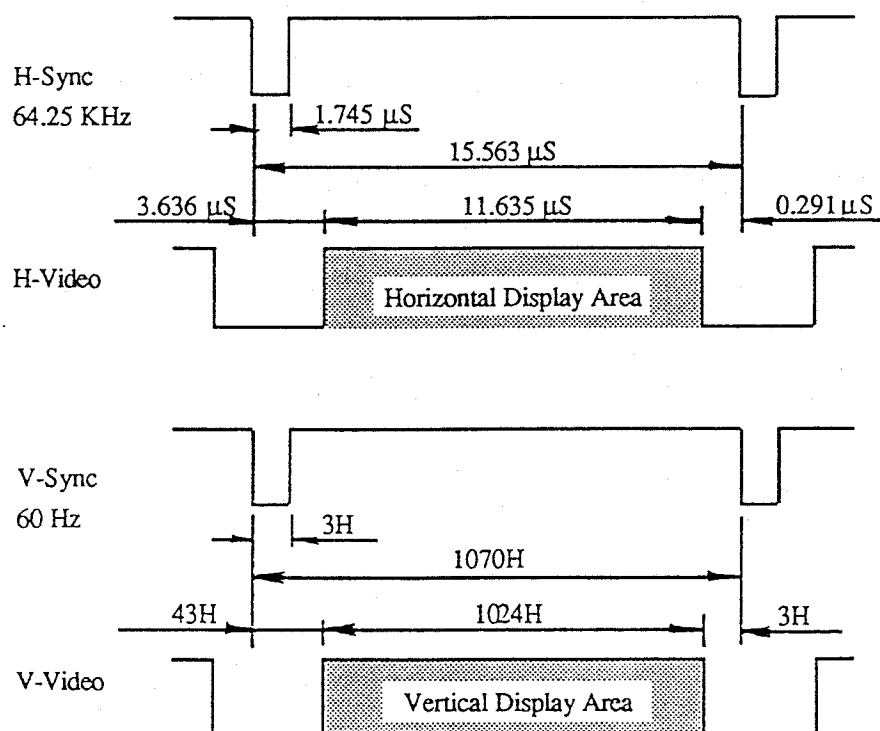
Horizontal Freq.: 56.26 KHz Vertical Freq.: 70.06 Hz (Non-interlace)  
Clock Freq.: 74.16 MHz



# SV-990 (64KHz) MODE

1280 DOT X 1024 LINE

Horizontal Freq.: 64.25 KHz Vertical Freq.: 60 Hz (Non-nterlace)  
Clock Freq.: 110.00 MHz



# VESA (48 KHz) MODE

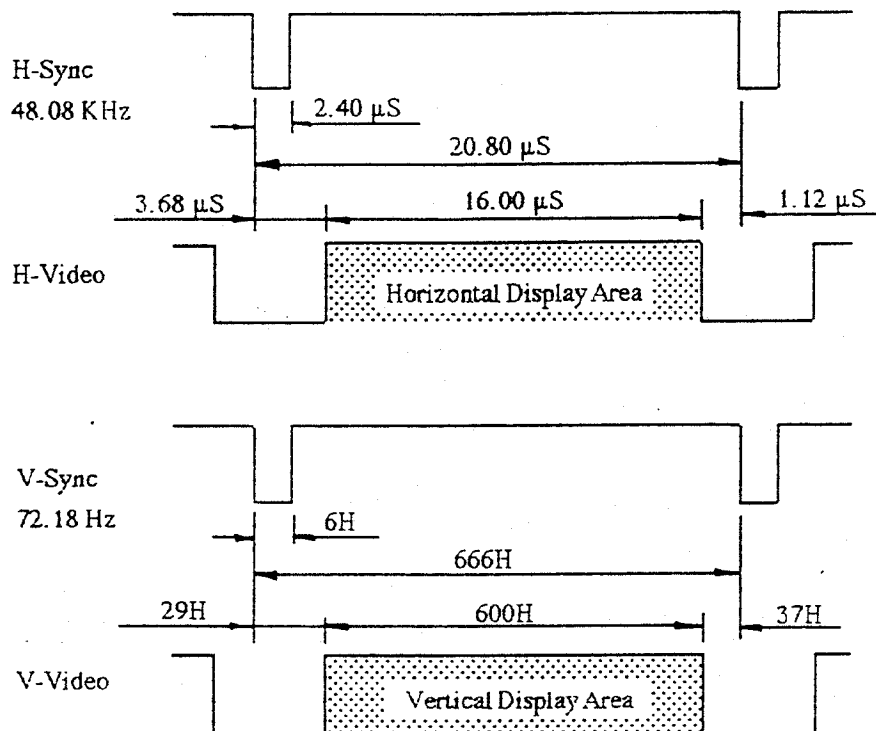
800 DOT X 600 LINE

HorizontalFreq.: 48.08 KHz

VerticalFreq.: 72.18 Hz

(Non-interlace)

Clock Freq.: 50.00 MHz



# VESA (37 KHz) MODE

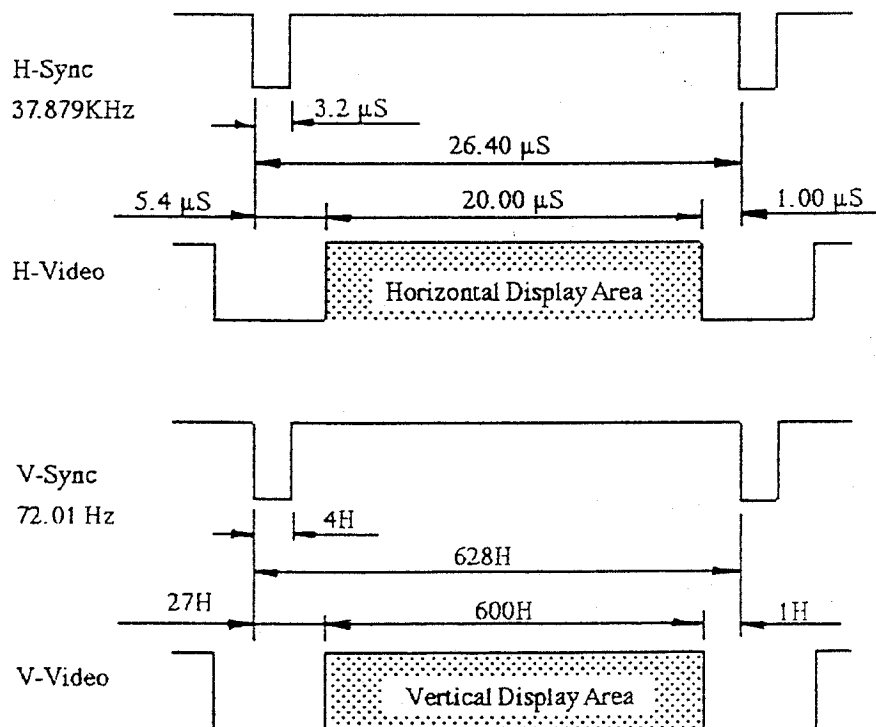
800 DOT X 600 LINE

HorizontalFreq.: 37.879 KHz

VerticalFreq.: 60.31 Hz

(Non-interlace)

Clock Freq.: 40.00 MHz



# Mac II (35 KHz) MODE

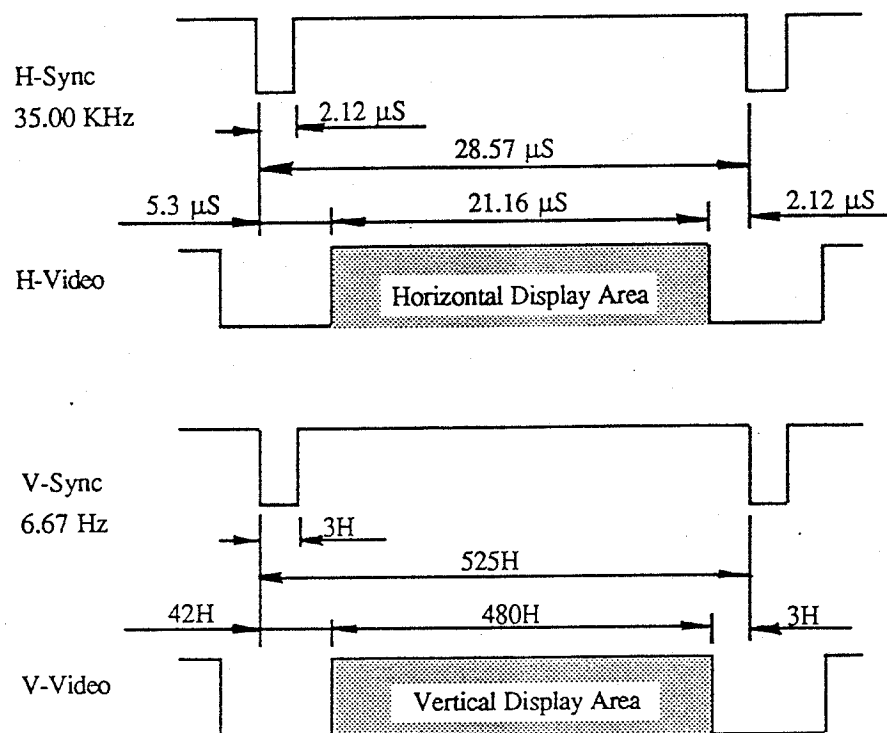
640 DOT X 480 LINE

Horizontal Freq.: 35.00 KHz

Vertical Freq.: 66.67 Hz

(Non-interlace)

Clock Freq.: 30.24 MHz



# XJS (74 KHz) MODE

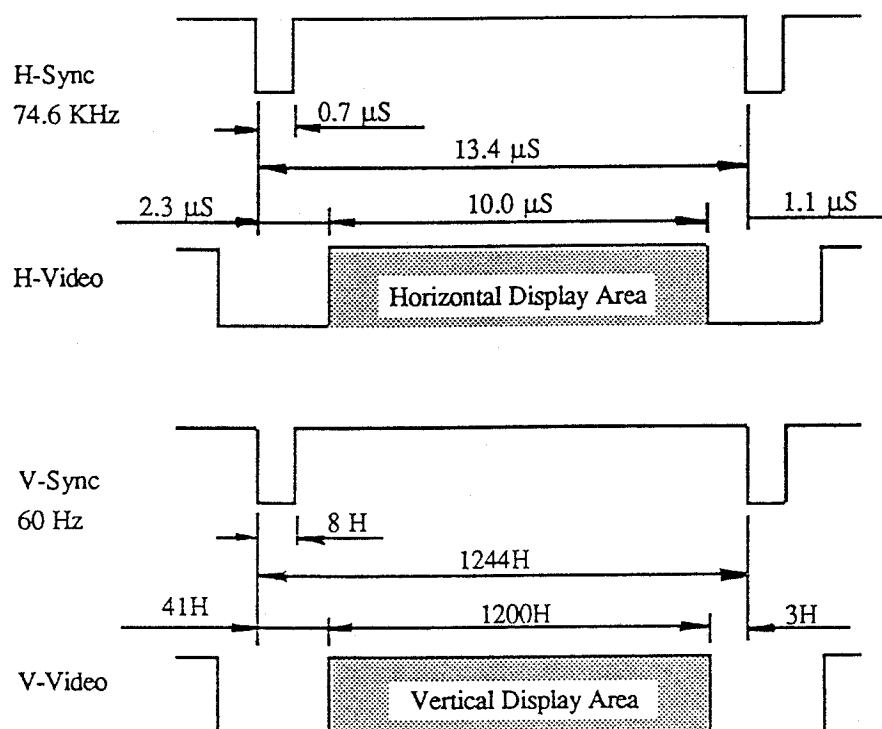
1600 DOT X 1200 LINE

Horizontal Freq.: 74.6 KHz

Vertical Freq.: 60.0 Hz

(Non-interlace)

Clock Freq.: 160 MHz



## 6. ELECTRICAL PARTS LIST

Model: CDT2046A

### DEF DRIVER BOARD - 1

The components identified by  $\Delta$  are critical for safety.  
Replace only with code number specified

| REF. NO. | PARTS NAME        | DESCRIPTIONS  | CODE NO.   |
|----------|-------------------|---------------|------------|
| IC201    | IC                | $\mu$ PC4574C | 9T30035-00 |
| IC202    | IC                | TA78L024AP    | 9T32010-00 |
| U201     | MCU-1             | UBG090-A00010 | 9T19212-00 |
| Q205     | Transistor        | 2SA1175       | 9T40251-50 |
| Q206     | Transistor        | 2SC2785       | 9T42449-50 |
| Q207     | Transistor        | 2SD1312       | 9T44250-00 |
| Q208     | Transistor        | 2SB984        | 9T41098-00 |
| Q210     | Transistor        | 2SC2240       | 9T42361-00 |
| Q211     | Transistor        | 2SA970        | 9T40191-00 |
| Q212     | Transistor        | 2SB940A       | 9T41092-00 |
| Q213     | Transistor        | 2SD1264A      | 9T44230-00 |
| Q214     | Transistor        | 2SC2240       | 9T42361-00 |
| Q215     | Transistor        | 2SC2240       | 9T42361-00 |
| Q216     | Transistor        | 2SK296        | 9T45024-00 |
| Q217     | Transistor        | 2SC2785       | 9T42449-00 |
| Q218     | Transistor        | 2SC2785       | 9T42449-00 |
| Q219     | Transistor        | 2SC2785       | 9T42449-00 |
| D204     | Diode             | S5688B        | 9T47050-50 |
| D205     | Diode             | 1SS177        | 9T47221-50 |
| D206     | Diode Zener       | RD9.1EB2      | 9T46059-50 |
| D207     | Diode Zener       | RD5.1EB2      | 9T46035-50 |
| D208     | Diode             | S5688B        | 9T47050-50 |
| D209     | Diode             | S5688B        | 9T47050-50 |
| RV201    | Variable Resistor | 1M 0.3WB      | 9T50237-21 |
| RV202    | Variable Resistor | 500K 0.3WB    | 9T50237-20 |
| R201     | JPW               |               | 2D03580-00 |
| R202     | Metal             | 1.2K 0.25W    | 9T52014-53 |
| R203     | Metal             | 18K 0.25W     | 9T52015-57 |
| R204     | Metal             | 22K 0.25W     | 9T52015-59 |
| R205     | Metal             | 100K 0.25W    | 9T52016-51 |
| R206     | Carbon            | 82K 0.25W     | 9T51025-73 |
| R207     | Carbon            | 10K 0.25W     | 9T51025-51 |
| R208     | JPW               |               | 2D03580-00 |
| R209     | Carbon            | 100K 0.25W    | 9T51026-51 |
| R210     | Fusing            | 1K 0.5W       | 9T52924-01 |
| R211     | Carbon            | 470K 0.25W    | 9T51026-67 |
| R212     | Carbon            | 10K 0.25W     | 9T51025-51 |
| R213     | Carbon            | 1K 0.25W      | 9T51024-51 |
| R214     | Carbon            | 10K 0.25W     | 9T51025-51 |
| R215     | Carbon            | 10K 0.25W     | 9T51025-51 |
| R216     | Carbon            | 10K 0.25W     | 9T51025-51 |
| R217     | Carbon            | 1K 0.25W      | 9T51024-51 |
| R218     | Carbon            | 68K 0.25W     | 9T51025-71 |
| R219     | Carbon            | 5.6K 0.25W    | 9T51024-69 |
| R220     | JPW               |               | 2D03580-00 |
| R221     | Carbon            | 120K 0.25W    | 9T51026-53 |
| R222     | Carbon            | 82K 0.25W     | 9T51025-73 |
| R223     | Carbon            | 2.2K 0.25W    | 9T51024-59 |
| R224     | Carbon            | 820 0.25W     | 9T51023-73 |

Model: CDT2046A

DEF DRIVER BOARD - 2

The components identified by **A** are critical for safety.  
Replace only with code number specified

| REF. NO. | PARTS NAME    | DESCRIPTIONS |       | CODE NO.   |
|----------|---------------|--------------|-------|------------|
| R225     | Metal Oxide   | 1            | 1W    | 9T51661-01 |
| R226     | Carbon        | 4.7K         | 0.25W | 9T51024-67 |
| R227     | Carbon        | 330          | 0.25W | 9T51023-63 |
| R228     | Metal Oxide   | 4.7K         | 1W    | 9T51664-17 |
| R229     | Fusing        | 22           | 0.25W | 9T52912-09 |
| R230     | Metal Oxide   | 270          | 2W    | 9T51673-11 |
| R231     | Fusing        | 22           | 0.25W | 9T52912-09 |
| R232     | Carbon        | 100          | 0.25W | 9T51023-51 |
| R234     | Carbon        | 270          | 0.25W | 9T51023-61 |
| R235     | Carbon        | 1K           | 0.25W | 9T51024-51 |
| R236     | Carbon        | 180          | 0.25W | 9T51023-57 |
| R237     | Carbon        | 2.2K         | 0.25W | 9T51024-59 |
| R238     | Carbon        | 120          | 0.25W | 9T51023-53 |
| R239     | Carbon        | 12K          | 0.25W | 9T51025-53 |
| R240     | Carbon        | 3.9K         | 0.25W | 9T51024-65 |
| R242     | Fusing        | 2.2          | 1W    | 9T52931-09 |
| R243     | Fusing        | 2.2          | 1W    | 9T52931-09 |
| R246     | Fusing        | 2.2          | 0.25W | 9T52911-09 |
| R248     | Metal Oxide   | 10K          | 1W    | 9T51665-01 |
| R250     | Carbon        | 3.3K         | 0.25W | 9T51024-63 |
| R251     | Carbon        | 8.2K         | 0.25W | 9T51024-73 |
| R252     | Metal         | 2.4K         | 0.25W | 9T52014-60 |
| R253     | Carbon        | 22           | 0.25W | 9T51022-59 |
| R254     | Carbon        | 22           | 0.25W | 9T51022-59 |
| R255     | Carbon        | 1K           | 0.25W | 9T51024-51 |
| R256     | Metal         | 560          | 0.25W | 9T52013-69 |
| R257     | Carbon        | 1.5K         | 0.25W | 9T51024-55 |
| R258     | Carbon        | 680          | 0.25W | 9T51023-71 |
| R259     | Carbon        | 10K          | 0.25W | 9T51025-51 |
| R260     | Carbon        | 10K          | 0.25W | 9T51025-51 |
| R261     | Carbon        | 10K          | 0.25W | 9T51025-51 |
| C201     | Elec.         | 220μF        | 25V   | 9T62071-55 |
| C202     | Elec.         | 1μF          | 50V   | 9T62102-55 |
| C203     | Ceramic       | 0.1μF        | 25V   | 9T69998-50 |
| C204     | Polyester     | 0.1μF        | 50V   | 9T70025-50 |
| C205     | Polyester     | 0.22μF       | 50V   | 9T77412-00 |
| C208     | Elec.         | 22μF         | 25V   | 9T62067-55 |
| C211     | Elec.         | 22μF         | 25V   | 9T65183-01 |
| C212     | Polypropylene | 0.1μF        | 50V   | 9T79506-00 |
| C213     | Elec.         | 47μF         | 16V   | 9T62049-55 |
| C215     | Elec.         | 47μF         | 16V   | 9T62049-55 |
| C216     | Elec.         | 470μF        | 50V   | 9T62113-05 |
| C218     | Elec.         | 1μF          | 50V   | 9T62102-55 |
| C219     | Elec.         | 1000μF       | 35V   | 9T62094-05 |
| C220     | Ceramic       | 0.1μF        | 25V   | 9T69998-50 |
| C221     | Ceramic       | 0.1μF        | 25V   | 9T69998-50 |
| C222     | Elec.         | 100μF        | 63V   | 9T62130-55 |
| C223     | Polyester     | 0.1μF        | 100V  | 9T77301-00 |
| C224     | Elec.         | 47μF         | 100V  | 9T62149-55 |
| C225     | Polyester     | 0.1μF        | 100V  | 9T77301-00 |
| C227     | Elec.         | 47μF         | 16V   | 9T62049-55 |
| C228     | Ceramic       | 0.1μF        | 25V   | 9T69998-50 |

## DEF DRIVER BOARD - 3

The components identified by  $\Delta$  are critical for safety.  
Replace only with code number specified

| REF. NO. | PARTS NAME     | DESCRIPTIONS    | CODE NO.   |
|----------|----------------|-----------------|------------|
| C229     | Elec.          | 4.7 $\mu$ F 50V | 9T65196-51 |
| C230     | Elec.          | 33 $\mu$ F 63V  | 9T62128-55 |
| C231     | Elec.          | 33 $\mu$ F 63V  | 9T62128-55 |
| L201     | Micro Inductor | 100 $\mu$ H     | 9U15333-01 |
| J201     | Plug           | 8P              | 9T87508-00 |
| J202     | Plug           | 3P              | 9T87503-00 |
| J203     | Pin Ass'y      | 3P              | 9T87313-00 |
| P301     | Connector      | 20P             | 9T86808-00 |
| P302     | Connector      | 20P             | 9T86808-00 |
| FN201    | Heatsink       |                 | 9T92874-00 |
| FN202    | Heatsink       |                 | 9T92874-00 |
| IC401    | IC             | $\mu$ PC301AC-W | 9T30004-00 |
| U401     | SMC            | HS3             | 9T19213-00 |
| Q401     | Transistor     | IRF710          | 9T45042-00 |
| Q402     | Transistor     | 2SC2785         | 9T42449-50 |
| Q403     | Transistor     | 2SA1175         | 9T40251-50 |
| Q404     | Transistor     | 2SK1416         | 9T45034-00 |
| Q405     | Transistor     | 2SC3997         | 9T42524-00 |
| Q406     | Transistor     | 2SC2785         | 9T42449-50 |
| Q407     | Transistor     | 2SC2785         | 9T42449-50 |
| Q408     | Transistor     | 2SC2785         | 9T42449-50 |
| Q409     | Transistor     | 2SC2785         | 9T42449-50 |
| Q410     | Transistor     | 2SA1175         | 9T40251-50 |
| Q411     | Transistor     | IRF9610         | 9T45041-00 |
| Q412     | Transistor     | 2SC4256         | 9T42564-00 |
| Q413     | Transistor     | 2SD1312         | 9T44250-00 |
| Q414     | Transistor     | 2SC2785         | 9T42449-50 |
| D401     | Diode Zener    | RD9.1EB2        | 9T46059-50 |
| D402     | Diode Zener    | RD9.1EB2        | 9T46059-50 |
| D403     | Diode          | EG-01C V0       | 9T47164-50 |
| D405     | Diode          | EG-01C V0       | 9T47164-50 |
| D406     | Diode          | ERE42M-15       | 9T47275-00 |
| D407     | Diode          | FML-G14S        | 9T47245-00 |
| D408     | Diode          | S5688B          | 9T47050-50 |
| D409     | Diode          | S5688B          | 9T47050-50 |
| D410     | Diode          | S5688B          | 9T47050-50 |
| D411     | Diode Zener    | RD24EB2         | 9T46102-50 |
| D412     | Diode          | RP-1H           | 9T47105-00 |
| D413     | Diode Zener    | RD9.1EB2        | 9T46059-50 |
| D414     | Diode          | RG2 LF-A1       | 9T47231-01 |
| D415     | Diode          | RG2 LF-A1       | 9T47231-01 |
| D416     | Diode          | RK14-LF-A1      | 9T47250-00 |
| D418     | Diode          | EG-01C V0       | 9T47164-50 |
| D419     | Diode          | S5688B          | 9T47050-50 |

# DEF DRIVER BOARD - 4

The components identified by  are critical for safety.  
 Replace only with code number specified

| REF. NO. | PARTS NAME        | DESCRIPTIONS |       | CODE NO.   |
|----------|-------------------|--------------|-------|------------|
| RV401    | Variable Resistor | 100          | 1.4WB | 9T50291-05 |
| R401     | Carbon            | 1K           | 0.25W | 9T51024-51 |
| R402     | Carbon            | 3.3K         | 0.25W | 9T51024-63 |
| R403     | JPW               |              |       | 2D03580-00 |
| R404     | Carbon            | 22           | 0.25W | 9T51022-59 |
| R405     | Carbon            | 1K           | 0.25W | 9T51024-51 |
| R406     | Carbon            | 18K          | 0.25W | 9T51025-57 |
| R407     | Metal             | 27K          | 0.25W | 9T52015-61 |
| R408     | Carbon            | 18K          | 0.25W | 9T51025-57 |
| R409     | Cement with fuse  | 470          | 2W    | 9T59565-01 |
| R410     | Metal Oxide       | 3.3K         | 1W    | 9T51664-13 |
| R411     | Metal Oxide       | 2.7          | 3W    | 9T51681-11 |
| R413     | Carbon            | 27           | 0.5W  | 9T51052-61 |
| R414     | Metal grase       | 220K         | 0.5W  | 9T53604-09 |
| R415     | Metal grase       | 220K         | 0.5W  | 9T53604-09 |
| R416     | Metal grase       | 220K         | 0.5W  | 9T53604-09 |
| R417     | Metal Oxide       | 560          | 1W    | 9T51663-19 |
| R418     | Metal grase       | 390K         | 0.5W  | 9T53604-15 |
| R419     | Metal grase       | 390K         | 0.5W  | 9T53604-15 |
| R420     | Fusing            | 100          | 0.25W | 9T52913-01 |
| R421     | Carbon            | 680          | 0.5W  | 9T51053-71 |
| R422     | Metal Oxide       | 47           | 1W    | 9T51662-17 |
| R423     | Carbon            | 10           | 0.5W  | 9T51052-51 |
| R424     | Carbon            | 560          | 0.5W  | 9T51053-69 |
| R425     | Carbon            | 4.7K         | 0.25W | 9T51024-67 |
| R426     | Carbon            | 10K          | 0.25W | 9T51025-51 |
| R427     | Carbon            | 18K          | 0.25W | 9T51025-57 |
| R428     | Carbon            | 10K          | 0.25W | 9T51025-51 |
| R429     | Metal grase       | 390K         | 0.5W  | 9T53604-15 |
| R430     | Metal grase       | 390K         | 0.5W  | 9T53604-15 |
| R431     | JPW               |              |       | 2D03580-00 |
| R432     | Metal grase       | 1M           | 0.25W | 9T53602-51 |
| R433     | Carbon            | 1K           | 0.25W | 9T51024-51 |
| R434     | Carbon            | 1K           | 0.25W | 9T51024-51 |
| R435     | Carbon            | 10K          | 0.25W | 9T51025-51 |
| R436     | Carbon            | 10K          | 0.25W | 9T51025-51 |
| R437     | Carbon            | 10K          | 0.25W | 9T51025-51 |
| R438     | JPW               |              |       | 2D03580-00 |
| R439     | JPW               |              |       | 2D03580-00 |
| R440     | Carbon            | 10K          | 0.25W | 9T51025-51 |
| R441     | Metal Oxide       | 470          | 2W    | 9T51673-17 |
| R442     | Metal Oxide       | 10           | 2W    | 9T51672-01 |
| R443     | Carbon            | 1M           | 0.25W | 9T51027-51 |
| R444     | Carbon            | 1M           | 0.25W | 9T51027-51 |
| R445     | Carbon            | 1K           | 0.25W | 9T51024-51 |
| R446     | JPW               |              |       | 2D03580-00 |
| R448     | Metal Oxide       | 5.6          | 3W    | 9T51681-19 |
| R449     | Metal Oxide       | 1.2          | 3W    | 9T51681-03 |
| C401     | Elec.             | 100µF        | 16V   | 9T62050-55 |
| C402     | Elec.             | 100µF        | 16V   | 9T62050-55 |
| C403     | Ceramic           | 1000pF       | 1KV   | 9T66508-00 |

# DEF DRIVER BOARD - 5

The components identified by  $\Delta$  are critical for safety.  
Replace only with code number specified

| REF. NO. | PARTS NAME        | DESCRIPTIONS         | CODE NO.   |
|----------|-------------------|----------------------|------------|
| C404     | Ceramic           | 10000pF 2KV          | 9T66654-00 |
| C405     | Polyester         | 0.022 $\mu$ F 50V    | 9T70017-50 |
| C407     | Polyester         | 0.047 $\mu$ F 50V    | 9T70021-50 |
| C408     | Polypropylene     | 0.0056 $\mu$ F 1.6KV | 9T73250-00 |
| C409     | Polypropylene     | 0.0022 $\mu$ F 1.6KV | 9T73265-00 |
| C410     | Polypropylene     | 0.0047 $\mu$ F 1.6KV | 9T73269-00 |
| C411     | Polypropylene     | 3.3 $\mu$ F 100V     | 9T79013-00 |
| C412     | Elec.             | 10 $\mu$ F 100V      | 9T62146-55 |
| C413     | Polypropylene     | 0.39 $\mu$ F 400V    | 9T79039-00 |
| C414     | Polypropylene     | 3.3 $\mu$ F 100V     | 9T79013-00 |
| C415     | Polypropylene     | 1 $\mu$ F 200V       | 9T73413-00 |
| C416     | Polypropylene     | 0.39 $\mu$ F 400V    | 9T79039-00 |
| C417     | Ceramic           | 10000pF 2KV          | 9T66654-00 |
| C418     | Ceramic           | 10000pF 2KV          | 9T66654-00 |
| C419     | Elec.             | 22 $\mu$ F 250V      | 9T62209-05 |
| C420     | Polyester         | 0.1 $\mu$ F 250V     | 9T77550-50 |
| C421     | Polyester         | 1 $\mu$ F 250V       | 9T77562-00 |
| C422     | Polyester         | 0.001 $\mu$ F 600V   | 9T70201-00 |
| C423     | Elec.             | 10 $\mu$ F 25V       | 9T62066-55 |
| C424     | Elec.             | 10 $\mu$ F 25V       | 9T62066-55 |
| C425     | Elec.             | 10 $\mu$ F 25V       | 9T62066-55 |
| C426     | Elec.             | 470 $\mu$ F 16V      | 9T62053-55 |
| C427     | Elec.             | 10 $\mu$ F 100V      | 9T62146-55 |
| C428     | Ceramic           | 0.1 $\mu$ F 25V      | 9T69998-50 |
| C429     | Elec.             | 10 $\mu$ F 50V       | 9T62016-55 |
| C430     | Elec.             | 10 $\mu$ F 25V       | 9T62066-55 |
| C431     | Elec.             | 1 $\mu$ F 250V       | 9T62204-05 |
| L401     | Micro Inductor    | 100 $\mu$ H          | 9U15333-01 |
| L402     | Choke Coil        |                      | 9U12065-00 |
| L403     | JPW               |                      | 2D03580-92 |
| L404     | Micro Inductor    |                      | 9U15041-00 |
| L405     | Linearity Coil    | PCL14-26             | 9U10216-00 |
| L406     | Choke Coil        |                      | 9U12233-00 |
| L407     | Choke Coil        |                      | 9U12012-00 |
| L408     | Bead Inductor     |                      | 9U16523-50 |
| L409     | Bead Inductor     |                      | 9U16523-50 |
| L410     | Choke Coil        |                      | 9U14634-00 |
| L411     | Micro Inductor    | 100 $\mu$ H          | 9U15174-00 |
| T401     | Drive Transf.     | PTR34-04             | 9T93634-00 |
| T402     | H. Output Transf. | PTR21-01             | 9T94301-00 |
| PS401    | JPW               |                      | 2D03580-00 |
| K401     | Relay             | 10A 250Vac           | 9T91555-00 |
| K402     | Relay             | 10A 250Vac           | 9T91555-00 |
| K403     | Relay             | 10A 250Vac           | 9T91555-00 |
| K404     | Relay             | DC12V                | 9T91557-00 |
| SG401    | Spark Gap         | 1KV                  | 9T92003-00 |
| J401     | Pin Ass'y         | 5P                   | 9T87315-00 |

# DEF DRIVER BOARD - 6

The components identified by  $\Delta$  are critical for safety.  
Replace only with code number specified

| REF. NO.       | PARTS NAME        | DESCRIPTIONS | CODE NO.   |
|----------------|-------------------|--------------|------------|
| J402           | Plug              | 3P           | 9T87503-02 |
| J403           | Plug              | 3P           | 9T87503-03 |
| SW401          | Slide Switch      |              | 9T90349-00 |
| FN403          | Heatsink          |              | 9W31401-00 |
| FN404          | Heatsink          |              | 9W31401-00 |
| $\Delta$ U451  | SMC               | HV2          | 9T19202-01 |
| $\Delta$ U452  | HIC               | PR1          | 9T36032-00 |
| Q451           | Transistor        | 2SC4256      | 9T42564-00 |
| Q452           | Transistor        | IRF9610      | 9T45041-00 |
| Q453           | Transistor        | 2SK296       | 9T45024-00 |
| Q454           | Transistor        | HPA100R      | 9T45055-00 |
| Q455           | Transistor        | 2SC2785      | 9T42449-50 |
| D451           | Diode Zener       | RD9.1EB2     | 9T46059-50 |
| D452           | Diode             | RK14 LF-A1   | 9T47250-00 |
| D453           | Diode Zener       | RD9.1EB2     | 9T46059-50 |
| D454           | Diode             | RG2 LF-A1    | 9T47231-01 |
| D455           | Diode             | RG2 LF-A1    | 9T47231-01 |
| D456           | Diode             | 1SS83        | 9T47202-50 |
| $\Delta$ RV451 | Variable Resistor | 10K 0.3WB    | 9T50237-13 |
| RV452          | Variable Resistor | 50K 0.3WB    | 9T50237-16 |
| $\Delta$ RV453 | Variable Resistor | 500K 0.3WB   | 9T50237-20 |
| R450           | Carbon            | 10K 0.25W    | 9T51025-51 |
| R451           | JPW               |              | 2D03580-00 |
| R452           | Metal grase       | 390K 0.5W    | 9T53604-15 |
| R453           | Metal grase       | 390K 0.5W    | 9T53604-15 |
| R454           | Carbon            | 4.7K 0.25W   | 9T51024-67 |
| R455           | Carbon            | 18K 0.25W    | 9T51025-57 |
| R456           | Carbon            | 33K 0.25W    | 9T51025-63 |
| R457           | JPW               |              | 2D03580-00 |
| R458           | Metal Oxide       | 1.5 3W       | 9T51681-05 |
| $\Delta$ R459  | Metal             | 15K 0.25W    | 9T52015-55 |
| $\Delta$ R460  | Metal             | 120K 0.25W   | 9T52016-03 |
| R461           | Metal grase       | 390K 0.25W   | 9T53601-65 |
| R462           | Cement with fuse  | 470 2W       | 9T59565-01 |
| R463           | Metal Oxide       | 3.3K 1W      | 9T51664-13 |
| R464           | Metal Oxide       | 3.3 3W       | 9T51681-13 |
| $\Delta$ R465  | Metal             | 5.6K 0.25W   | 9T52014-69 |
| R466           | Carbon            | 12K 0.5W     | 9T51055-53 |
| $\Delta$ R467  | Metal             | 82K 0.25W    | 9T52015-73 |
| R468           | Metal             | 470K 0.25W   | 9T52016-67 |
| R469           | Metal             | 47K 0.25W    | 9T52015-67 |
| R470           | Metal grase       | 390K 0.5W    | 9T53604-15 |
| R471           | Carbon            | 10K 0.25W    | 9T51025-51 |
| R472           | Carbon            | 2.2K 0.25W   | 9T51024-59 |
| R473           | Carbon            | 4.7K 0.25W   | 9T51024-67 |
| R474           | Carbon            | 22 0.25W     | 9T51022-59 |

## DEF DRIVER BOARD - 7

The components identified by  $\Delta$  are critical for safety.  
Replace only with code number specified

| REF. NO.          | PARTS NAME            | DESCRIPTIONS   |       | CODE NO.   |
|-------------------|-----------------------|----------------|-------|------------|
| R475              | Fusing                | 4.7            | 0.5W  | 9T52921-17 |
| R477              | Metal Oxide           | 4.7            | 2W    | 9T51671-17 |
| R478              | Carbon                | 47K            | 0.25W | 9T59025-17 |
| R479              | Carbon                | 220K           | 0.25W | 9T59026-09 |
| C451              | Elec.                 | 10 $\mu$ F     | 25V   | 9T62066-55 |
| C452              | Ceramic               | 330pF          | 2KV   | 9T66605-00 |
| C453              | Polypropylene         | 0.15 $\mu$ F   | 200V  | 9T73403-00 |
| C454              | Elec.                 | 100 $\mu$ F    | 16V   | 9T62050-55 |
| C455              | Polyester             | 0.001 $\mu$ F  | 200V  | 9T70101-50 |
| C456              | Polyester             | 0.1 $\mu$ F    | 250V  | 9T76863-00 |
| C457              | Polyester             | 1 $\mu$ F      | 250V  | 9T77562-00 |
| C458              | Polypropylene         | 0.0018 $\mu$ F | 1.6KV | 9T73244-00 |
| C459              | Polypropylene         | 0.001 $\mu$ F  | 1.6KV | 9T73241-00 |
| C460              | Polypropylene         | 0.68 $\mu$ F   | 400V  | 9T73720-00 |
| C461              | Elec.                 | 10 $\mu$ F     | 100V  | 9T62146-55 |
| C462              | Ceramic               | 470pF          | 2KV   | 9T66606-00 |
| C463              | Elec.                 | 22 $\mu$ F     | 250V  | 9T62209-05 |
| C464              | Polyester             | 0.1 $\mu$ F    | 50V   | 9T70025-50 |
| C465              | Elec.                 | 22 $\mu$ F     | 250V  | 9T62209-05 |
| C466              | Ceramic               | 10000pF        | 2KV   | 9T66654-00 |
| C467              | Polyester             | 0.0033 $\mu$ F | 200V  | 9T70107-00 |
| C468              | Polyester             | 0.01 $\mu$ F   | 200V  | 9T70113-00 |
| L451              | HV Dummy L            | PCL72-01       |       | 9U12281-00 |
| L452              | Choke Coil            | PCL52-01       |       | 9U12231-00 |
| L453              | Bead Inductor         |                |       | 9U16523-50 |
| L454              | Bead Inductor         |                |       | 9U16523-50 |
| L455              | Micro Inductor        | 100 $\mu$ H    |       | 9U15333-01 |
| L456              | Micro Inductor        | 100 $\mu$ H    |       | 9U15333-01 |
| L457              | Micro Inductor        | 390 $\mu$ H    |       | 9U15202-00 |
| $\Delta$ T451     | Flyback Transf.       | PCF13-01       |       | 9T95291-00 |
| T452              | HV Drive Transf.      | PTR34-02       |       | 9T93632-00 |
| T453              | Dynamic Focus Transf. | PTR52-02       |       | 9T94553-00 |
| PS451             | JPW                   |                |       | 9T91914-00 |
| SG451             | Spark Gap             | 1KV            |       | 9T92003-00 |
| SG452             | Serge Protector       | 200V           |       | 9T92019-00 |
| SG453             | Serge Protector       | 200V           |       | 9T92019-00 |
| J452              | Plug                  | 5P             |       | 9T87505-00 |
| PB1               | Printed Wiring Board  | PBG572-3       |       | 9T12572-03 |
| Z455              | Buzzer                | EFB-AA40D-102  |       | 9T91256-00 |
| Z456              | Support               | TCBS-6N        |       | 9U20232-00 |
| Z457              | Focus Pack            | HFV285-010     |       | 9T95703-00 |
| Z458              | Sillicone Cap         | FG-006         |       | 9U21190-00 |
| JW401 to<br>JW479 | JPW                   |                |       | 2D03580-00 |

# Switching Power Supply Board - 1

The components identified by  $\Delta$  are critical for safety.  
Replace only with code number specified

| REF. NO. | PARTS NAME       | DESCRIPTIONS   | CODE NO.   |
|----------|------------------|----------------|------------|
| IC901    | IC               | STR-S5941      | 9T33216-00 |
| IC902    | IC               | $\mu$ PC7912H  | 9T30016-00 |
| IC903    | IC               | $\mu$ PC7812HF | 9T30033-00 |
| IC904    | IC               | OCP-1          | 0T10015-00 |
| Q901     | Triac            | AC10FGM-YC     | 9T48202-01 |
| Q902     | Thyristor        | 5P4M           | 9T48021-00 |
| Q904     | Transistor       | 2SC1213A       | 9T42190-00 |
| D901     | Diode Bridge     | D5SB60         | 9T47373-00 |
| D902     | Diode Zener      | 3Z200          | 9T46833-00 |
| D903     | Diode Zener      | 3Z200          | 9T46833-00 |
| D904     | Diode Zener      | 3Z200          | 9T46833-00 |
| D905     | Diode Zener      | 3Z200          | 9T46833-00 |
| D906     | Diode            | EG-01C V0      | 9T47164-50 |
| D907     | Diode            | EU-2Z LF-F4    | 9T47167-01 |
| D908     | Diode Zener      | RD12FB2        | 9T46372-00 |
| D909     | Diode            | EU-2Z LF-F4    | 9T47167-01 |
| D910     | Diode            | EU-2Z LF-F4    | 9T47167-01 |
| D911     | Diode Zener      | RD2.0FB2       | 9T46303-00 |
| D921     | Diode            | RU3AM LF-C4    | 9T47173-01 |
| D923     | Diode            | RU2AM LF-C4    | 9T47165-01 |
| D924     | Diode            | RU2AM LF-C4    | 9T47165-01 |
| D925     | Diode            | EU-2Z LF-F4    | 9T47167-01 |
| D926     | Diode            | S5688B         | 9T47050-50 |
| D927     | Diode            | S5688B         | 9T47050-50 |
| D928     | Diode            | SB50-09J       | 9T47127-00 |
| D929     | Diode            | S5688B         | 9T47050-50 |
| D930     | Diode            | S5688B         | 9T47050-50 |
| D931     | Diode            | SB50-09J       | 9T47127-00 |
| D932     | Diode            | RU2YX LF-C4    | 9T47170-00 |
| D933     | Diode            | S5688B         | 9T47050-50 |
| D934     | Diode            | 1S1588         | 9T47207-50 |
| D935     | Diode Zener      | RD68EB         | 9T46139-50 |
| D936     | Diode Zener      | RD68EB         | 9T46139-50 |
| D937     | Diode Zener      | RD68EB         | 9T46139-50 |
| R901     | Cement with fuse | 15/150C 5W     | 9T59563-00 |
| R902     | Metal grase      | 680K 0.5W      | 9T53604-21 |
| R903     | Metal grase      | 270K 0.5W      | 9T53604-11 |
| R904     | Metal grase      | 270K 0.5W      | 9T53604-11 |
| R905     | Metal grase      | 270K 0.5W      | 9T53604-11 |
| R906     | Metal grase      | 220K 0.5W      | 9T53604-09 |
| R907     | Metal Oxide      | 22K 3W         | 9T51685-09 |
| R908     | Metal Oxide      | 22K 3W         | 9T51685-09 |
| R909     | Carbon           | 47 0.5W        | 9T51052-67 |
| R910     | Metal Oxide      | 12 3W          | 9T51682-03 |
| R911     | Metal Oxide      | 15 3W          | 9T51682-05 |
| R912     | Fusing           | 22 0.25W       | 9T52912-09 |
| R913     | Metal            | 68K 0.25W      | 9T52015-71 |
| R914     | Metal            | 39K 0.25W      | 9T52015-65 |
| R915     | Cement           | 0.22 3W        | 9T59552-00 |

## Switching Power Supply Board - 2

The components identified by  are critical for safety.  
Replace only with code number specified

| REF. NO. | PARTS NAME        | DESCRIPTIONS  |       | CODE NO.   |
|----------|-------------------|---------------|-------|------------|
| R916     | Fusing            | 68            | 1W    | 9T52932-21 |
| R917     | Carbon            | 1K            | 0.25W | 9T51024-51 |
| R921     | Fusing            | 47            | 1W    | 9T52932-17 |
| R922     | Carbon            | 68K           | 0.5W  | 9T51055-71 |
| R923     | Carbon            | 68K           | 0.5W  | 9T51055-71 |
| R926     | Carbon            | 1K            | 0.25W | 9T51024-51 |
| R927     | Cement            | 1             | 5W    | 9T59558-00 |
| R928     | Fusing            | 1             | 0.25W | 9T52911-01 |
| R929     | JPW               |               |       | 2D03580-91 |
| R930     | Fusing            | 1             | 1W    | 9T52931-01 |
| R932     | Carbon            | 100           | 0.25W | 9T51023-51 |
| R933     | Carbon            | 220           | 0.25W | 9T51023-59 |
| R934     | Carbon            | 10K           | 0.25W | 9T51025-51 |
| R935     | Carbon            | 10K           | 0.25W | 9T51025-51 |
| R936     | Carbon            | 3.3K          | 0.5W  | 9T51054-63 |
| R937     | Carbon            | 3.3K          | 0.5W  | 9T51054-63 |
| R938     | Metal Oxide       | 10K           | 2W    | 9T51675-01 |
| R939     | Metal Oxide       | 10K           | 2W    | 9T51675-01 |
| R940     | Metal Oxide       | 5.6           | 1W    | 9T51661-19 |
| R941     | Metal Oxide       | 5.6           | 1W    | 9T51661-19 |
| R942     | Fusing            | 47            | 1W    | 9T52932-17 |
| TH901    | Positive Resistor | 5             | 100V  | 9T48811-00 |
| TH902    | Positive Resistor | 18            | 220V  | 9T48810-00 |
| C901     | X-Cap.            | 0.47 $\mu$ F  | 250V  | 9T79042-00 |
| C903     | X-Cap.            | 0.47 $\mu$ F  | 250V  | 9T79042-00 |
| C904     | Y-Cap.            | 4700pF        | 400V  | 9T69930-00 |
| C905     | Y-Cap.            | 4700pF        | 400V  | 9T69930-00 |
| C908     | Elec.             | 820 $\mu$ F   | 200V  | 9T65994-00 |
| C909     | Elec.             | 820 $\mu$ F   | 200V  | 9T65994-00 |
| C910     | Polyester         | 0.033 $\mu$ F | 630V  | 9T77610-50 |
| C911     | Ceramic           | 220pF         | 2KV   | 9T68725-00 |
| C912     | Polyester         | 0.015 $\mu$ F | 50V   | 9T70015-50 |
| C913     | Elec.             | 220 $\mu$ F   | 63V   | 9T62131-05 |
| C914     | Elec.             | 10 $\mu$ F    | 63V   | 9T62126-55 |
| C915     | Elec.             | 100 $\mu$ F   | 25V   | 9T62070-55 |
| C916     | Polyester         | 0.1 $\mu$ F   | 50V   | 9T70025-50 |
| C921     | Ceramic           | 220pF         | 2KV   | 9T68725-00 |
| C922     | Elec.             | 220 $\mu$ F   | 250V  | 9T65997-00 |
| C923     | Elec.             | 100 $\mu$ F   | 250V  | 9T62212-05 |
| C924     | Elec.             | 4.7 $\mu$ F   | 50V   | 9T62105-55 |
| C925     | Elec.             | 120 $\mu$ F   | 100V  | 9T65998-00 |
| C926     | Elec.             | 100 $\mu$ F   | 100V  | 9T62150-05 |
| C927     | Elec.             | 330 $\mu$ F   | 50V   | 9T62112-05 |
| C928     | Elec.             | 100 $\mu$ F   | 50V   | 9T62110-55 |
| C929     | Elec.             | 330 $\mu$ F   | 25V   | 9T62072-55 |
| C930     | Polyester         | 0.068 $\mu$ F | 50V   | 9T70023-50 |
| C931     | Elec.             | 100 $\mu$ F   | 25V   | 9T62070-55 |
| C932     | Elec.             | 2200 $\mu$ F  | 25V   | 9T65999-00 |

# Switching Power Supply Board - 3

The components identified by  are critical for safety.  
Replace only with code number specified

| REF. NO.          | PARTS NAME           | DESCRIPTIONS  | CODE NO.   |
|-------------------|----------------------|---------------|------------|
| C933              | Elec.                | 100μF 25V     | 9T62070-55 |
| C934              | Elec.                | 220μF 25V     | 9T62071-55 |
| C935              | Elec.                | 820μF 16V     | 9T66000-00 |
| C937              | Elec.                | 1000μF 16V    | 9T62054-05 |
| C938              | Elec.                | 100μF 25V     | 9T62070-55 |
| C939              | Elec.                | 100μF 25V     | 9T62070-55 |
| C940              | Elec.                | 1000μF 6.3V   | 9T62014-05 |
| L902              | Common Choke         | PCL84-01      | 9U14507-00 |
| L903              | Line Choke           | 18μH PCL01-08 | 9U14608-00 |
| L904              | Micro Inductor       | 15μH          | 9U15323-01 |
| L905              | Micro Inductor       | 15μH          | 9U15323-01 |
| L906              | Bead Inductor        |               | 9U16521-50 |
| L907              | Bead Inductor        |               | 9U16521-50 |
| L908              | Bead Inductor        |               | 9U16521-50 |
| K901              | Relay                | DC12V         | 9T91569-00 |
| T901              | Switching Transf.    | PTR65-01      | 9T94901-00 |
| PS901             | Micro fuse           | 4A 125V       | 9T90885-00 |
| PS902             | Micro fuse           | 4A 125V       | 9T90885-00 |
| PS903             | Micro fuse           | 4A 125V       | 9T90885-00 |
| PS904             | Micro fuse           | 4A 125V       | 9T90885-00 |
| PS905             | Micro fuse           | 4A 125V       | 9T90885-00 |
| PS906             | Micro fuse           | 4A 125V       | 9T90885-00 |
| P901              | Pin Hedder Ass'y     | 3P            | 9T80045-00 |
| P903              | Pin Ass'y            | 2P            | 9T87332-00 |
| P904              | Pin Hedder           | 3P            | 9T85931-00 |
| P905              | Pin Hedder           | 3P            | 9T85930-00 |
| P906              | Plug                 | 8P            | 9T87508-00 |
| P907              | Plug                 | 5P            | 9T87505-00 |
| P908              | Plug                 | 8P            | 9T87508-00 |
| P909              | Plug                 | 3P            | 9T87503-00 |
| P910              | Plug                 | 3P            | 9T87503-02 |
| P911              | Plug                 | 3P            | 9T87503-03 |
| FN901             | Heatsink             |               | 9T92923-00 |
| FN902             | Heatsink             |               | 9T92923-00 |
| JW902 to<br>JW927 | JPW                  |               | 2D03580-00 |
| PB2               | Printed Wiring Board | PBG574-3      | 9T12574-03 |
| Z901              | PWB Contact          | PSM51-03A     | 9U56311-00 |
| Z903              | PWB Contact          | PSM51-03A     | 9U56311-00 |
| Z905              | Thercon-sheet        | PZE11-77      | 9U21617-00 |
| Z906 to<br>Z910   | Tupping Support      | TCBS-6N       | 9U20232-00 |

# Video Board - 1

The components identified by  are critical for safety.  
Replace only with code number specified

| REF. NO. | PARTS NAME        | DESCRIPTIONS  | CODE NO.   |
|----------|-------------------|---------------|------------|
| U601     | PV5               | UBG579-A00010 | 9T19210-00 |
| IC601    | IC                | M5218AL       | 9T34501-00 |
| IC602    | IC                | μPC7905H      | 9T30015-00 |
| IC603    | IC                | VPA12-KA      | 9T34413-00 |
| IC604    | IC                | VPA12-KA      | 9T34413-00 |
| IC605    | IC                | VPA12-KA      | 9T34413-00 |
| Q601     | Transistor        | 2SC2785       | 9T42449-50 |
| Q602     | Transistor        | 2SA1175       | 9T40251-50 |
| Q604     | Transistor        | 2SC3468       | 9T42530-00 |
| Q605     | Transistor        | 2SA1175       | 9T40251-50 |
| Q606     | Transistor        | 2SC2785       | 9T42449-50 |
| Q607     | Transistor        | 2SA1091       | 9T40203-50 |
| Q608     | Transistor        | 2SA1091       | 9T40203-50 |
| Q609     | Transistor        | 2SA1091       | 9T40203-50 |
| Q610     | Transistor        | 2SA1091       | 9T40203-50 |
| Q611     | Transistor        | 2SA1091       | 9T40203-50 |
| Q612     | Transistor        | 2SA1091       | 9T40203-50 |
| D601     | Diode             | S5688G        | 9T47049-50 |
| D602     | JPW               |               | 2D03580-00 |
| D604     | Diode Zener       | RD5.1EB2      | 9T46035-50 |
| D605     | Diode             | 1S1588        | 9T47207-50 |
| D606     | Diode             | 1S1588        | 9T47207-50 |
| D607     | Diode             | 1S1588        | 9T47207-50 |
| D608     | Diode             | S5688B        | 9T47050-50 |
| D609     | Diode             | S5688B        | 9T47050-50 |
| D610     | Diode             | 1SS83         | 9T47202-50 |
| D611     | Diode             | 1SS83         | 9T47202-50 |
| D612     | Diode             | 1SS83         | 9T47202-50 |
| D613     | Diode             | 1SS83         | 9T47202-50 |
| D614     | Diode             | 1SS83         | 9T47202-50 |
| D615     | Diode             | 1SS83         | 9T47202-50 |
| D616     | Diode             | 1SS83         | 9T47202-50 |
| D617     | Diode             | 1SS83         | 9T47202-50 |
| D618     | Diode             | 1SS83         | 9T47202-50 |
| RV601    | Variable Resistor | 500 0.3WB     | 9T50238-08 |
| RV602    | Variable Resistor | 20K 0.3WB     | 9T50238-14 |
| RV603    | Variable Resistor | 1K 0.3WB      | 9T50238-09 |
| RV604    | Variable Resistor | 1K 0.3WB      | 9T50238-09 |
| RV605    | Variable Resistor | 1K 0.3WB      | 9T50238-09 |
| RV606    | Variable Resistor | 1K 0.3WB      | 9T50238-09 |
| RV607    | Variable Resistor | 20K 0.3WB     | 9T50238-14 |
| RV608    | Variable Resistor | 20K 0.3WB     | 9T50238-14 |
| RV609    | Variable Resistor | 20K 0.3WB     | 9T50238-14 |
| RV610    | Variable Resistor | 100K 0.3WB    | 9T50238-17 |
| RV611    | Variable Resistor | 100K 0.3WB    | 9T50238-17 |
| RV612    | Variable Resistor | 100K 0.3WB    | 9T50238-17 |

## Video Board - 2

The components identified by **Δ** are critical for safety.  
 Replace only with code number specified

| REF. NO. | PARTS NAME  | DESCRIPTIONS |       | CODE NO.   |
|----------|-------------|--------------|-------|------------|
| R601     | Fusing      | 4.7          | 0.5W  | 9T52921-17 |
| R602     | Metal grase | 220K         | 0.25W | 9T53601-59 |
| R603     | Metal       | 75           | 0.25W | 9T52012-72 |
| R604     | Metal       | 75           | 0.25W | 9T52012-72 |
| R605     | Metal       | 75           | 0.25W | 9T52012-72 |
| R606     | Carbon      | 47           | 0.17W | 9T51012-67 |
| R607     | Carbon      | 47           | 0.17W | 9T51012-67 |
| R608     | Carbon      | 47           | 0.17W | 9T51012-67 |
| R610     | JPW         |              |       | 9T91912-50 |
| R611     | JPW         |              |       | 9T91912-50 |
| R612     | JPW         |              |       | 9T91912-50 |
| R613     | Carbon      | 47K          | 0.17W | 9T51015-67 |
| R614     | Carbon      | 47K          | 0.17W | 9T51015-67 |
| R615     | Carbon      | 47K          | 0.17W | 9T51015-67 |
| R616     | Carbon      | 1K           | 0.17W | 9T51014-51 |
| R617     | JPW         |              |       | 9T91912-50 |
| R619     | Carbon      | 2.2K         | 0.25W | 9T51024-59 |
| R620     | Carbon      | 220          | 0.17W | 9T51013-59 |
| R621     | Carbon      | 100          | 0.17W | 9T51013-51 |
| R624     | Carbon      | 470          | 0.25W | 9T51023-67 |
| R625     | Carbon      | 470          | 0.25W | 9T51023-67 |
| R626     | Carbon      | 4.7K         | 0.17W | 9T51014-67 |
| R627     | Carbon      | 150K         | 0.17W | 9T51016-55 |
| R628     | Carbon      | 2.2K         | 0.17W | 9T51014-59 |
| R629     | Carbon      | 220          | 0.17W | 9T51013-59 |
| R631     | Carbon      | 1K           | 0.17W | 9T51014-51 |
| R632     | Carbon      | 1K           | 0.17W | 9T51014-51 |
| R633     | Carbon      | 1K           | 0.17W | 9T51014-51 |
| R636     | Carbon      | 68K          | 0.5W  | 9T51055-71 |
| R637     | Carbon      | 18K          | 0.25W | 9T51025-57 |
| R638     | Carbon      | 22K          | 0.17W | 9T51015-59 |
| R639     | Carbon      | 33K          | 0.17W | 9T51015-63 |
| R640     | Carbon      | 10K          | 0.17W | 9T51015-51 |
| R641     | Carbon      | 10K          | 0.17W | 9T51015-51 |
| R642     | Carbon      | 47K          | 0.17W | 9T51015-67 |
| R644     | Carbon      | 1K           | 0.17W | 9T51014-51 |
| R645     | Carbon      | 56           | 0.17W | 9T51012-69 |
| R646     | Carbon      | 56           | 0.17W | 9T51012-69 |
| R647     | Carbon      | 56           | 0.17W | 9T51012-69 |
| R648     | Carbon      | 820          | 0.17W | 9T51013-73 |
| R649     | Carbon      | 820          | 0.17W | 9T51013-73 |
| R650     | Carbon      | 820          | 0.17W | 9T51013-73 |
| R651     | Fusing      | 4.7          | 0.25W | 9T52911-17 |
| R652     | Fusing      | 4.7          | 0.25W | 9T52911-17 |
| R653     | Fusing      | 4.7          | 0.25W | 9T52911-17 |
| R654     | Carbon      | 22           | 0.17W | 9T51012-59 |
| R655     | Carbon      | 22           | 0.17W | 9T51012-59 |
| R656     | Carbon      | 22           | 0.17W | 9T51012-59 |
| R657     | Metal grase | 220K         | 0.25W | 9T53601-59 |
| R658     | Metal grase | 220K         | 0.25W | 9T53601-59 |
| R659     | Metal grase | 220K         | 0.25W | 9T53601-59 |

# Video Board - 3

The components identified by  are critical for safety.  
Replace only with code number specified

| REF. NO. | PARTS NAME  | DESCRIPTIONS |       | CODE NO.   |
|----------|-------------|--------------|-------|------------|
| R660     | Metal grase | 470K         | 0.25W | 9T53604-17 |
| R661     | Metal grase | 470K         | 0.25W | 9T53604-17 |
| R662     | Metal grase | 470K         | 0.25W | 9T53604-17 |
| R663     | Carbon      | 100K         | 0.5W  | 9T51056-51 |
| R664     | Carbon      | 100K         | 0.5W  | 9T51056-51 |
| R665     | Carbon      | 100K         | 0.5W  | 9T51056-51 |
| R666     | Carbon      | 220K         | 0.5W  | 9T51056-59 |
| R667     | Carbon      | 220K         | 0.5W  | 9T51056-59 |
| R668     | Carbon      | 220K         | 0.5W  | 9T51056-59 |
| R669     | Solid       | 22           | 0.25W | 9T59112-09 |
| R670     | Solid       | 22           | 0.25W | 9T59112-09 |
| R671     | Solid       | 22           | 0.25W | 9T59112-09 |
| R672     | JPW         |              |       | 2D03580-00 |
| R673     | Carbon      | 1K           | 0.17W | 9T51014-51 |
| R674     | JPW         |              |       | 2D03580-00 |
| R675     | Carbon      | 1K           | 0.5W  | 9T51054-51 |
| R676     | Carbon      | 1K           | 0.5W  | 9T51054-51 |
| R677     | Carbon      | 1K           | 0.5W  | 9T51054-51 |
| R678     | Carbon      | 33K          | 0.5W  | 9T51055-63 |
| R679     | Carbon      | 33K          | 0.5W  | 9T51055-63 |
| R680     | Carbon      | 33K          | 0.5W  | 9T51055-63 |
| R681     | Carbon      | 100          | 0.25W | 9T51023-51 |
| R682     | Carbon      | 100          | 0.25W | 9T51023-51 |
| R683     | Carbon      | 100          | 0.25W | 9T51023-51 |
| R684     | Carbon      | 820          | 0.5W  | 9T51053-73 |
| R685     | Carbon      | 820          | 0.5W  | 9T51053-73 |
| R686     | Carbon      | 820          | 0.5W  | 9T51053-73 |
| R687     | Carbon      | 47K          | 0.17W | 9T51015-67 |
|          |             |              |       |            |
| C601     | Elec.       | 4.7μF        | 250V  | 9T62207-55 |
| C602     | Elec.       | 47μF         | 100V  | 9T62149-55 |
| C603     | Elec.       | 47μF         | 25V   | 9T62069-55 |
| C604     | Elec.       | 47μF         | 25V   | 9T62069-55 |
| C605     | Elec.       | 47μF         | 25V   | 9T62069-55 |
| C606     | Polyester   | 0.01μF       | 50V   | 9T70013-50 |
| C607     | Polyester   | 0.01μF       | 50V   | 9T70013-50 |
| C608     | Polyester   | 0.01μF       | 50V   | 9T70013-50 |
| C609     | Ceramic     | 0.1μF        | 25V   | 9T69998-50 |
| C610     | Ceramic     | 0.1μF        | 25V   | 9T69998-50 |
| C611     | Ceramic     | 0.1μF        | 25V   | 9T69998-50 |
| C612     | Elec.       | 47μF         | 25V   | 9T62069-55 |
| C613     | Ceramic     | 0.1μF        | 25V   | 9T69998-50 |
| C615     | Ceramic     | 470pF        | 50V   | 9T67272-50 |
| C616     | Elec.       | 47μF         | 25V   | 9T62069-55 |
| C617     | Elec.       | 10μF         | 25V   | 9T62066-55 |
| C618     | Elec.       | 47μF         | 25V   | 9T62069-55 |
| C619     | Elec.       | 47μF         | 25V   | 9T62069-55 |
| C620     | Elec.       | 47μF         | 25V   | 9T62069-55 |
| C621     | Elec.       | 47μF         | 25V   | 9T62069-55 |
| C622     | Elec.       | 47μF         | 25V   | 9T62069-55 |
| C623     | Elec.       | 47μF         | 25V   | 9T62069-55 |
| C624     | Elec.       | 47μF         | 25V   | 9T62069-55 |
| C625     | Elec.       | 47μF         | 25V   | 9T62069-55 |
| C626     | Elec.       | 47μF         | 25V   | 9T62069-55 |

# Video Board - 4

The components identified by  are critical for safety.  
Replace only with code number specified

| REF. NO.          | PARTS NAME     | DESCRIPTIONS | CODE NO.   |
|-------------------|----------------|--------------|------------|
| C627              | Elec.          | 100μF 25V    | 9T62070-55 |
| C628              | Elec.          | 100μF 25V    | 9T62070-55 |
| C629              | Elec.          | 33μF 25V     | 9T62068-55 |
| C630              | Elec.          | 33μF 25V     | 9T62068-55 |
| C631              | Elec.          | 33μF 25V     | 9T62068-55 |
| C632              | Elec.          | 47μF 100V    | 9T62149-55 |
| C633              | Elec.          | 47μF 100V    | 9T62149-55 |
| C634              | Elec.          | 47μF 100V    | 9T62149-55 |
| C635              | Ceramic        | 100pF 50V    | 9T67224-50 |
| C636              | Ceramic        | 100pF 50V    | 9T67224-50 |
| C637              | Ceramic        | 100pF 50V    | 9T67224-50 |
| C638              | Polyester      | 0.1μF 250V   | 9T76863-00 |
| C639              | Polyester      | 0.1μF 250V   | 9T76863-00 |
| C640              | Polyester      | 0.1μF 250V   | 9T76863-00 |
| C641              | Elec.          | 1μF 250V     | 9T62204-55 |
| C642              | Elec.          | 1μF 250V     | 9T62204-55 |
| C643              | Elec.          | 1μF 250V     | 9T62204-55 |
| C644              | Polyester      | 0.01μF 200V  | 9T70113-00 |
| C645              | Polyester      | 0.01μF 200V  | 9T70113-00 |
| C646              | Polyester      | 0.01μF 200V  | 9T70113-00 |
| C647              | Elec.          | 4.7μF 250V   | 9T62207-55 |
| C648              | Elec.          | 4.7μF 250V   | 9T62207-55 |
| C649              | Elec.          | 4.7μF 250V   | 9T62207-55 |
| C650              | Elec.          | 47μF 25V     | 9T62069-55 |
| C651              | Elec.          | 47μF 25V     | 9T62069-55 |
| C652              | Ceramic        | 0.1μF 25V    | 9T69998-50 |
| L601              | Micro Inductor | 100μH        | 9U15333-01 |
| L602              | Micro Inductor | 100μH        | 9U15333-01 |
| L603              | Bead Inductor  |              | 9U16523-50 |
| L604              | Bead Inductor  |              | 9U16523-50 |
| L605              | Bead Inductor  |              | 9U16523-50 |
| L606              | Bead Inductor  |              | 9U16523-50 |
| L607              | Bead Inductor  |              | 9U16523-50 |
| L608              | Bead Inductor  |              | 9U16523-50 |
| L609              | Bead Inductor  |              | 9U16523-50 |
| L610              | Bead Inductor  |              | 9U16523-50 |
| L611              | Bead Inductor  |              | 9U16523-50 |
| L612              | Bead Inductor  |              | 9U16523-50 |
| L613              | Bead Inductor  |              | 9U16523-50 |
| L614              | Bead Inductor  |              | 9U16523-50 |
| L615              | Bead Inductor  |              | 9U16523-50 |
| L616              | Bead Inductor  |              | 9U16523-50 |
| L617              | Bead Inductor  |              | 9U16523-50 |
| L619              | Bead Inductor  |              | 9U16523-50 |
| L622              | Bead Inductor  |              | 9U16523-50 |
| L623              | Bead Inductor  |              | 9U16523-50 |
| L624              | Bead Inductor  |              | 9U16523-50 |
| L628              | Bead Inductor  |              | 9U16523-50 |
| JW601 to<br>JW651 | JPW            |              | 2D03580-00 |

# Video Board - 5

The components identified by  are critical for safety.  
Replace only with code number specified

| REF. NO. | PARTS NAME           | DESCRIPTIONS       | CODE NO.   |
|----------|----------------------|--------------------|------------|
| FN601    | Heatsink             | SE-25-BS-AN-0      | 9T92923-00 |
| J601     | Coaxial Cable        | PZE11-120-02 Green | 6C86698-00 |
| J602     | Coaxial Cable        | PZE11-120-01 Red   | 6C86696-00 |
| J603     | Coaxial Cable        | PZE11-120-03 Blue  | 6C86700-00 |
| J604     | Plug                 | 6P                 | 9T87506-00 |
| J605     | Plug                 | 8P                 | 9T87508-00 |
| J606     | Plug                 | 7P                 | 9T87507-00 |
| J607     | Mini pin             | SML 010            | 9T87610-00 |
| J608     | Mini pin             | SML 010            | 9T87610-00 |
| J609     | Mini pin             | SML 010            | 9T87610-00 |
| Z601     | PWB contact          | PSM51-03A          | 9U56311-00 |
| Z602     | PWB contact          | PSM51-03A          | 9U56311-00 |
| Z603     | PWB contact          | PSM51-03A          | 9U56311-00 |
| Z604     | PWB contact          | PSM51-03A          | 9U56311-00 |
| PB3      | Printed Wiring Board | PBG592-2           | 9T12592-02 |

# CRT Socket Board - 1

The components identified by  are critical for safety.  
Replace only with code number specified

| REF. NO. | PARTS NAME           | DESCRIPTIONS | CODE NO.   |
|----------|----------------------|--------------|------------|
| RV801    | Resistor Variable    | 90M          | 9W23009-00 |
| R801     | Solid                | 33 0.5W      | 9T59122-13 |
| R802     | Solid                | 33 0.5W      | 9T59122-13 |
| R803     | Solid                | 33 0.5W      | 9T59122-13 |
| R804     | Solid                | 1K 0.5W      | 9T59214-01 |
| R805     | JPW                  |              | 9T91911-50 |
| R806     | Metal grase          | 560K 0.5W    | 9T53604-19 |
| C801     | Ceramic              | 10000pF 2KV  | 9T66654-00 |
| C802     | Ceramic              | 10000pF 2KV  | 9T66654-00 |
| C803     | Ceramic              | 10000pF 2KV  | 9T66654-00 |
| C804     | Ceramic              | 10000pF 2KV  | 9T66654-00 |
| L801     | Common choke         | PCL85-01     | 9U14508-00 |
| SG801    | Spark Gap            | 200V         | 9T92019-50 |
| SG802    | Spark Gap            | 200V         | 9T92019-50 |
| SG803    | Spark Gap            | 200V         | 9T92019-50 |
| SG804    | Spark Gap            | 1KV          | 9T92003-00 |
| SG805    | Spark Gap            | 1.5KV        | 9T92004-00 |
| J801     | Mini pin             | SML011       | 9T87611-00 |
| J802     | Mini pin             | SML011       | 9T87611-00 |
| J803     | Mini pin             | SML011       | 9T87611-00 |
| J804     | Plug                 | 3P           | 9T87523-00 |
| S801     | CRT Socket           | 1-526-866-12 | 9W52064-00 |
| PB4      | Printed Wiring Board | PBG591-1     | 9T12591-01 |
| Z801     | PWB contact          | PSM51-03A    | 9U56311-00 |
| Z802     | PWB contact          | PSM51-03A    | 9U56311-00 |
| Z803     | PWB contact          | PSM51-03A    | 9U56311-00 |
| Z804     | PWB contact          | PSM51-03A    | 9U56311-00 |

## Switch Board

The components identified by **Δ** are critical for safety.  
Replace only with code number specified

| REF. NO. | PARTS NAME             | DESCRIPTIONS    | CODE NO.   |
|----------|------------------------|-----------------|------------|
| D580     | LED                    | GL5EG8          | 9T48466-00 |
| R580     | Carbon                 | 560 0.5W        | 9T51053-69 |
| SW580    | Push Switch            | TV-8 SDDFA3062A | 9T90347-00 |
| J580     | Strain relief terminal | 5298T           | 9T85952-00 |
| J584     | Plug                   | 3P              | 9T87523-00 |
| J901     | Connector housing      | 3P              | 9T80003-00 |
| J955     | Connector housing      | 4P              | 9T80024-00 |
| JW580    | JPW                    |                 | 2D03580-00 |
| PB5      | Printed Wiring Board   | PBG575-3        | 9T12575-03 |
| Z581     | PVCW                   | ULCSA1672 Black | 9U22102-00 |
| Z582     | PVCW                   | ULCSA1672 White | 9U22107-00 |
| Z583     | PVCW                   | ULCSA1672 Brown | 9U22106-00 |

## LED Board

| REF. NO. | PARTS NAME           | DESCRIPTIONS | CODE NO.   |
|----------|----------------------|--------------|------------|
| D570     | LED                  | GL5HY8       | 9T48465-00 |
| D571     | LED                  | GL5HY8       | 9T48465-00 |
| D572     | Diode                | 1SS177       | 9T47221-50 |
| D573     | Diode                | 1SS177       | 9T47221-50 |
| R570     | Carbon               | 1K 0.5W      | 9T51054-51 |
| R571     | Carbon               | 1K 0.5W      | 9T51054-51 |
| J570     | Plug                 | 4P           | 9T87524-00 |
| PB6      | Printed Wiring Board | PBG576-3     | 9T12576-03 |

# Interface Board

The components identified by  are critical for safety.  
Replace only with code number specified

| REF. NO.          | PARTS NAME           | DESCRIPTIONS   | CODE NO.   |
|-------------------|----------------------|----------------|------------|
| Q550              | Transistor           | 2SC2785        | 9T42449-50 |
| D550              | Diode                | 1SS177         | 9T47221-50 |
| D551              | Diode                | 1SS177         | 9T47221-50 |
| D552              | Diode                | 1SS177         | 9T47221-50 |
| R550              | Carbon               | 10K 0.25W      | 9T51025-51 |
| R551              | Carbon               | 560 0.25W      | 9T51023-69 |
| R552              | Carbon               | 560 0.25W      | 9T51023-69 |
| C550              | Elec.                | 10μF 25V       | 9T62066-55 |
| K550              | Relay                | G6A-474-40     | 9T91548-00 |
| K551              | Relay                | G2E-137P-M     | 9T91547-00 |
| J550              | BNC                  | HXC0323-01-310 | 9T88793-00 |
| J551              | BNC                  | HXC0323-01-310 | 9T88793-00 |
| J552              | BNC                  | HXC0323-01-310 | 9T88793-00 |
| J553              | BNC                  | HXC0323-01-310 | 9T88793-00 |
| J554              | BNC                  | HXC0323-01-310 | 9T88793-00 |
| J555              | Plug                 | 6P             | 9T87506-00 |
| J556              | Mini pin             | SML010         | 9T87610-00 |
| J557              | Mini pin             | SML010         | 9T87610-00 |
| J558              | Mini pin             | SML010         | 9T87610-00 |
| J559              | D-Sub connector      | 15P            | 9T86811-00 |
| JW550 to<br>JW555 | JPW                  |                | 2D03580-00 |
| PB7               | Printed Wiring Board | PBG577-3       | 9T12577-03 |
| Z550              | Nut for BNC          | HXC0999-01-010 | 9T88795-00 |
| Z551              | BNC terminal         | HXC0999-01-570 | 9T88794-00 |
| Z552              | Washer for BNC       | HXC0999-01-020 | 9T88796-00 |

## Control Board

The components identified by  $\Delta$  are critical for safety.  
Replace only with code number specified

| REF. NO.          | PARTS NAME           | DESCRIPTIONS | CODE NO.   |
|-------------------|----------------------|--------------|------------|
| RV560             | Resistor Variable    | 10K          | 9T50821-00 |
| RV561             | Resistor Variable    | 10K          | 9T50821-00 |
| SW560             | Rotary Switch        | SRBM13       | 9T90163-00 |
| SW561             | Rotary Switch        | SRBM13       | 9T90163-00 |
| J560              | RF Connector         | 14P          | 9T86813-00 |
| J561              | Plug                 | 6P           | 9T87526-00 |
| JW560 to<br>JW565 | JPW                  |              | 2D03580-00 |
| PB8               | Printed Wiring Board | PBG578-3     | 9T12578-03 |

## Filter Board

| REF. NO. | PARTS NAME             | DESCRIPTIONS               | CODE NO.   |
|----------|------------------------|----------------------------|------------|
| R951     | Metal grase            | 680K 0.5W                  | 9T53604-21 |
| C951     | X-Cap.                 | 0.47 $\mu$ F 250V (XE-474) | 9T79042-00 |
| C952     | X-Cap.                 | 0.47 $\mu$ F 250V (XE-474) | 9T79042-00 |
| C953     | Y-Cap.                 | 2200pF 400V (ECK-DNS222ME) | 9T68234-00 |
| C954     | Y-Cap.                 | 2200pF 400V (ECK-DNS222ME) | 9T68234-00 |
| L951     | Common Choke           | ELF-18D603F                | 9U14504-00 |
| P453     | Connector housing      | 3P (1-480700-0)            | 9T80003-00 |
| P951     | Pin hedder Ass'y       | 3P (350429-1)              | 9T80045-00 |
| P952     | Strain relief terminal | 5298T                      | 9T85952-00 |
| P953     | Strain relief terminal | 5298T                      | 9T85952-00 |
| P954     | Strain relief terminal | 5298T                      | 9T85952-00 |
| JW951    | JPW                    |                            | 2D03580-00 |
| JW952    | JPW                    |                            | 2D03580-00 |
| PB9      | Printed Wiring Board   | PBG646-0                   | 9T12646-00 |
| Z901     | PVCW                   | ULCSA1672 Black            | 9U22101-00 |
| Z902     | PVCW                   | ULCSA1672 White            | 9U22107-00 |
| Z903     | PVCW                   | ULCSA1672 Brown            | 9U22106-00 |

## Main Ass'y - 1

The components identified by **△** are critical for safety.  
Replace only with code number specified

| REF. NO.    | PARTS NAME       | DESCRIPTIONS              | CODE NO.   |
|-------------|------------------|---------------------------|------------|
| <b>△</b> V1 | CRT              | 20 inch M49KHH15X         | 9T03547-00 |
| DY1         | Deflection Yoke  | TCD-13001                 | 7G20001-00 |
| F1          | Line Fuse        | ST4-5A For UL/CSA         | 9T90914-00 |
| F2          | Line Fuse        | BET 5A For IEC            | 9T90899-00 |
|             | Line Fuse        | (UL) ET 5A For UL/CSA/IEC |            |
| FH1         | Fuse holder      | FEU031.1673               | 9T90981-00 |
| FH2         | Fuse Carrier     | FEK031.1661               | 9T90988-00 |
| FH3         | Fuse Carrier     | FEK031.1663               | 9T90990-00 |
| SW1         | Voltage selector | SU110A13                  | 9T90338-00 |
| L1          | Degauss Coil     | PCL63-03                  | 8F81422-00 |
| L2          | Neck tiwst coil  | 1-452-337-22              | 9W45202-00 |
| P101        | RA Connector     | 26P                       | 9T86815-00 |
| P201        | Housing          | 8P                        | 9T87548-00 |
| P202        | Housing          | 3P                        | 9T87543-02 |
| P402        | Housing          | 3P                        | 9T87543-01 |
| P403        | Housing          | 3P                        | 9T87543-03 |
| P555        | Housing          | 6P                        | 9T87546-00 |
| P560        | RA Connector     | 14P                       | 9T86816-00 |
| P604        | Housing          | 8P                        | 9T87548-00 |
| P605        | Housing          | 7P                        | 9T87547-00 |
| P606        | Housing          | 6P                        | 9T87546-00 |
| P804        | Housing          | 3P                        | 9T87543-00 |
| J1          | AC Inlet         | AC-P03CS05                | 9T89119-00 |
| J103        | Housing          | 6P                        | 9T87546-00 |
| J104        | Housing          | 4P                        | 9T87544-00 |
| J105        | Housing          | 3P                        | 9T87543-00 |
| J904        | Housing          | 3P 5196-03                | 9T85332-00 |
| J905        | Housing          | 5P 5195-05                | 9T85921-00 |
| J906        | Housing          | 8P                        | 9T87548-00 |
| J907        | Housing          | 5P                        | 9T87545-00 |
| J908        | Housing          | 8P                        | 9T87548-00 |
| J909        | Housing          | 3P                        | 9T87543-00 |
| J910        | Housing          | 3P                        | 9T87543-02 |
| Z101        | Contact          |                           | 9T87557-00 |
| Z102        | Climp terminal   | 5167TL                    | 9T85002-00 |
| Z103        | Socket contact   | 350550-3                  | 9T80139-00 |

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8 Cherry Tree Rd, Chinnor  
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Tel:- 01844-351694 Fax:- 01844-352554  
Email:- enquiries@mauritron.co.uk

## Main Ass'y - 2

The components identified by  are critical for safety.  
Replace only with code number specified

| REF. NO. | PARTS NAME             | DESCRIPTIONS                    | CODE NO.   |
|----------|------------------------|---------------------------------|------------|
| Z104     | Strain relief terminal | 5298T                           | 9T85952-00 |
| Z106     | JM Connector           | 2P                              | 9T86817-00 |
| Z107     | Visto Cable            | PZE11-114-09 Red                | 6D51018-00 |
| Z108     | Visto Cable            | PZE11-114-10 Green              | 6D51020-00 |
| Z109     | Visto Cable            | PZE11-114-11 Blue               | 6D51022-00 |
| Z110     | Focus Pack             | HFV285-010                      | 9T95703-00 |
| Z111     | Wire saddle            | WS-2NS                          | 9U20982-00 |
| Z112     | Wire saddle            | WS-1NS                          | 9U20986-00 |
| Z113     | Ferrite core           | BP53RH..                        | 9T97906-00 |
| Z114     | PVCW                   | ULCSA1672 White X Black         | 9U22054-00 |
| Z115     | PVCW                   | ULCSA1672 Brown X Brown         | 9U22055-00 |
| Z116     | PVCW                   | ULCSA1672 White X Black X Brown | 9U22056-00 |
| Z117     | Tub terminal           | 83121                           | 9T88942-00 |
| Z118     | PVCW                   | ULCSA2468                       | 9U22122-52 |
| Z119     | PVCW                   | ULCSA2468                       | 9U22123-52 |
| Z120     | PVCW                   | ULCSA2468                       | 9U22124-52 |
| Z121     | PVCW                   | ULCSA2468                       | 9U22126-52 |
| Z122     | Receptacle terminal    | 170333-1                        | 9T80840-00 |
| Z123     | Cylindrical core       | 1-452-032-11                    | 9W45201-00 |
| Z124     | Spacer DY              | 3-703-003-02                    | 9W70328-00 |
| Z125     | Parmalloy ass'y        | X-4308-815-8                    | 9W91004-00 |
| Z126     | Terminal with washer   | SRT-51T-4FE                     | 9T86302-00 |
| Z127     | Power Cord             | PZE11-127 (UL)                  | 9U23437-00 |
| Z128     | Power Cord             | PZE11-125                       | 9U23436-00 |
| SW1      | Switch                 | MB2521-8W                       | 9T90068-00 |

## Unit Service Parts List

The components identified by **△** are critical for safety.  
Replace only with code number specified

### PWB Ass'y Units

| UNIT NAME                    | DESCRIPTIONS         | CODE NO.      |
|------------------------------|----------------------|---------------|
| <b>△</b> DEF & CRT PWB Ass'y |                      | -- 8X10059-00 |
| LINE FILTER PWB Ass'y        | PBG646-0             | 7S82046-40    |
| INTERFACE BLOCK Ass'y        |                      | 7S82046-70    |
| - IF PWB Ass'y               | PBG577               |               |
| - POWER SW PWB Ass'y         | PBG575               |               |
| - A, B SW PWB Ass'y          | PBG578               |               |
| - A, B LED PWB Ass'y         | PBG576               |               |
| MCU, LCD PWB Ass'y           | MCU-1 (UBG090A00010) | 9T19212-00    |
| VIDEO PWB Ass'y              | PGB592               | 7S82046-50    |
| PS PWB Ass'y                 | PBG574-3             | 7S82046-65    |

### Mechanical Parts

| UNIT NAME | DESCRIPTIONS | CODE NO.   |
|-----------|--------------|------------|
| COVER     | PZM10-753    | 9U70215-00 |
| BEZEL     | PZM10-818    | 9U70239-00 |
| TILT      | PZM10-754    | 9U70216-00 |
| TURRET    | PZM71-06     | 9U56976-00 |
| BASE      | PZM81-06     | 9U56988-00 |
| KNOB-VR   | PZM10-757    | 9U70219-00 |

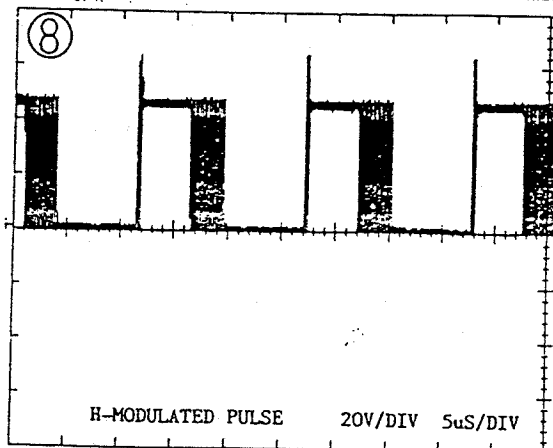
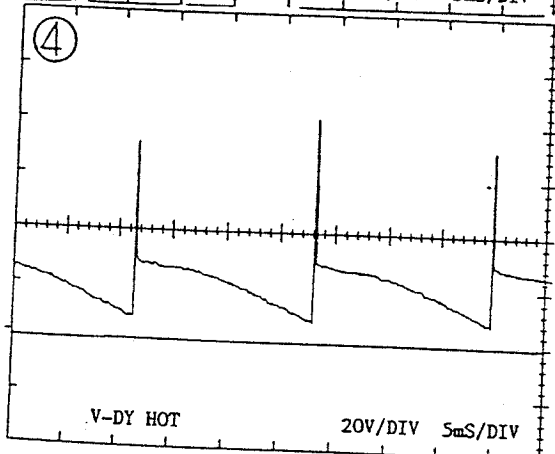
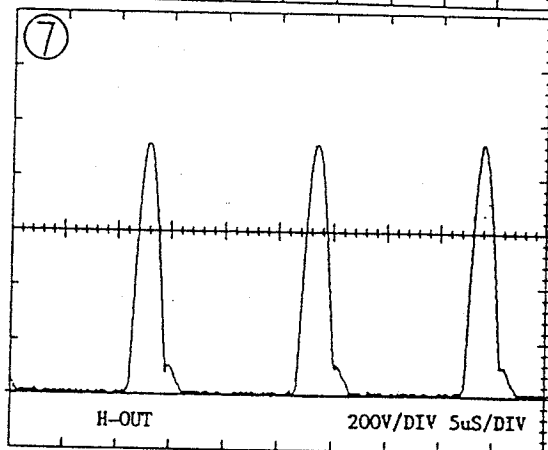
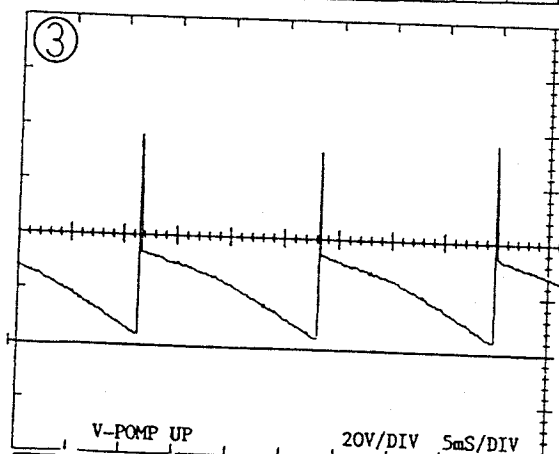
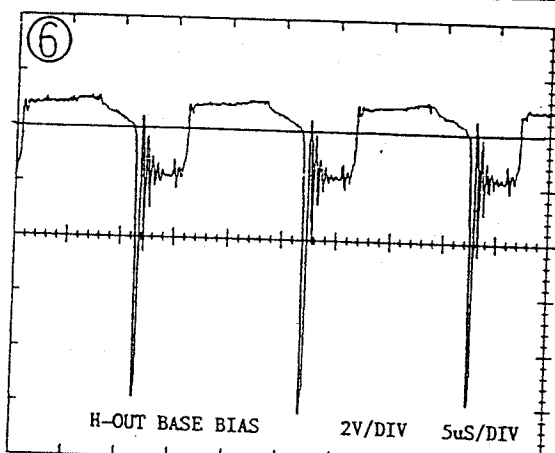
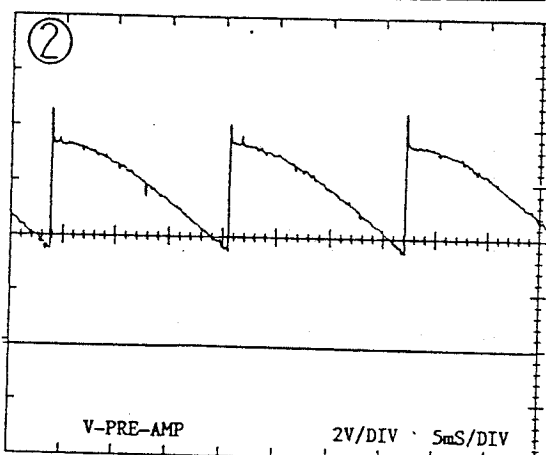
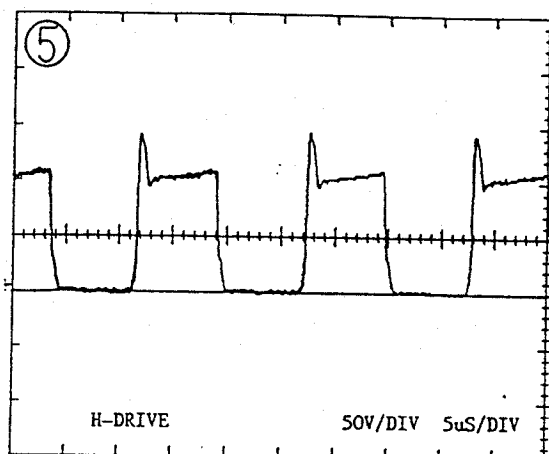
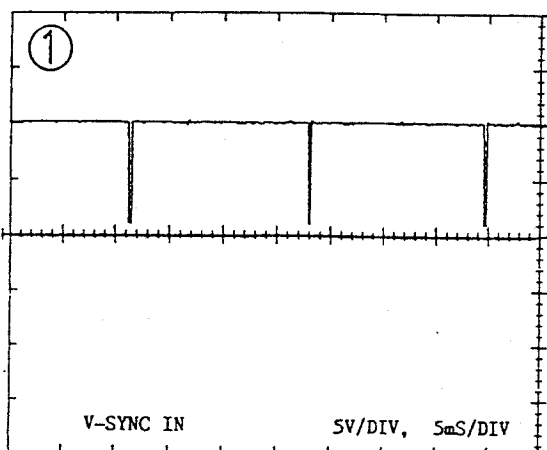
### Packaging Parts

| UNIT NAME       | DESCRIPTIONS  | CODE NO.   |
|-----------------|---------------|------------|
| Anti-Static Bag | PZM92-09      | 9U49224-00 |
| Cushion Upper   | PZP33-43      | 9U84103-00 |
| Cushion Lower   | PZP33-44      | 9U84102-00 |
| Packaging Box   | PZP23-23      | 9U84102-00 |
| Joint           | PP Joint 600W | 9U84074-00 |
| Tray            | PZP93-10      | 9U84105-00 |

# Wave Form of Normal Condition

1 64KHz Mode

Each numbers are corresponding to Circuit diagrams

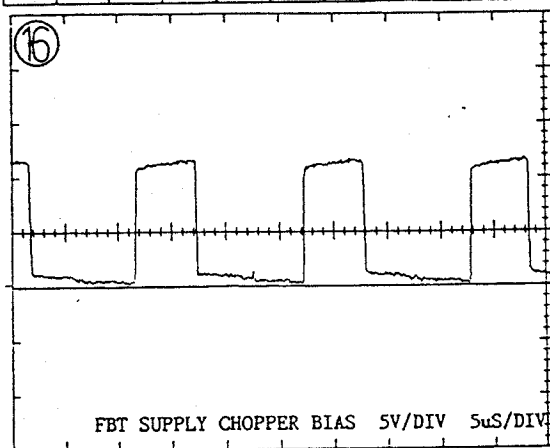
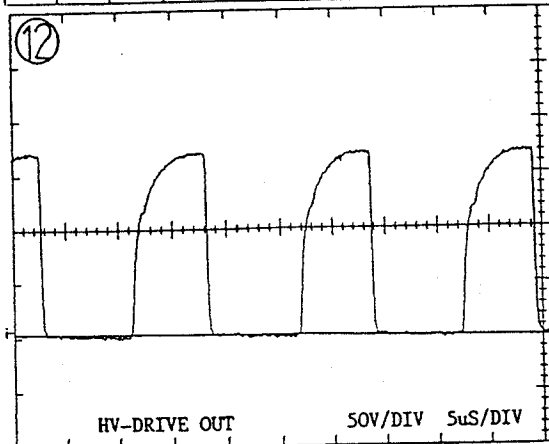
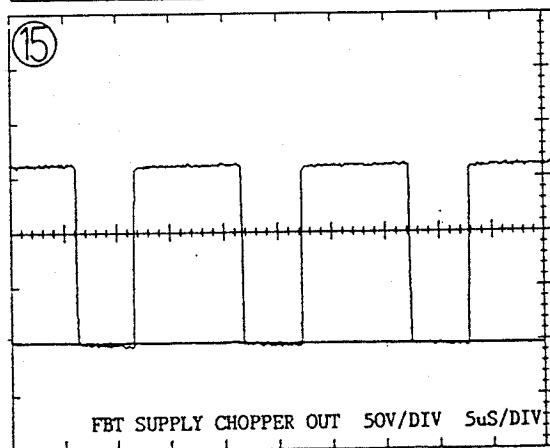
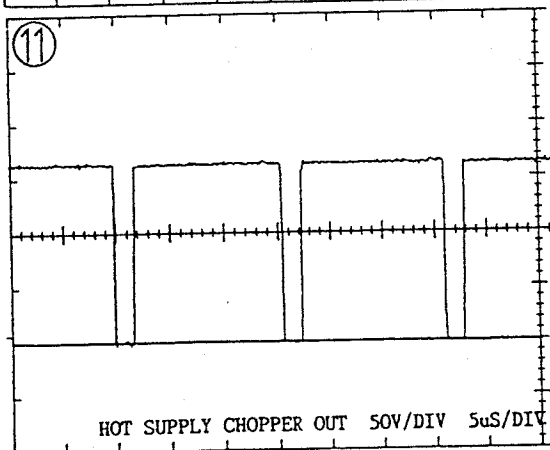
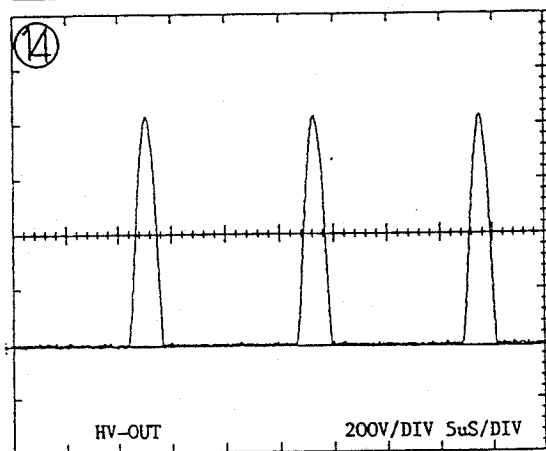
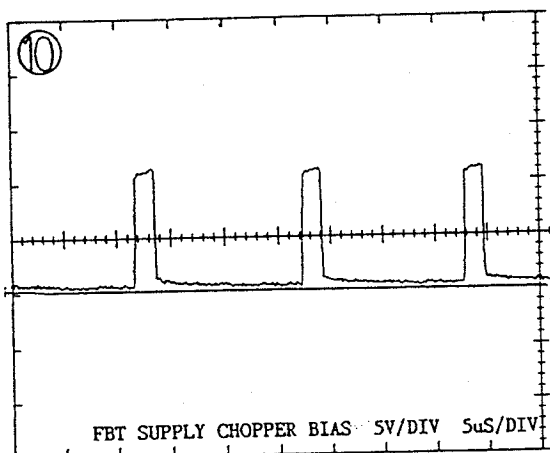
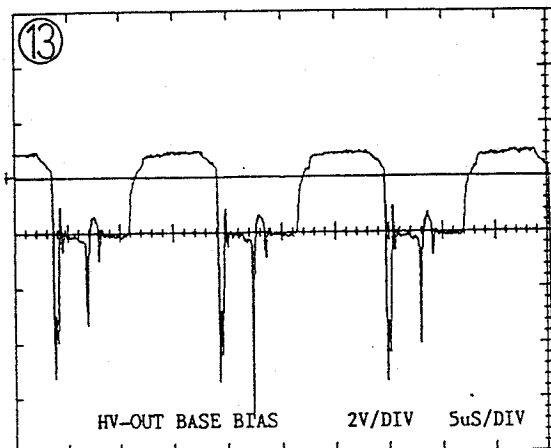
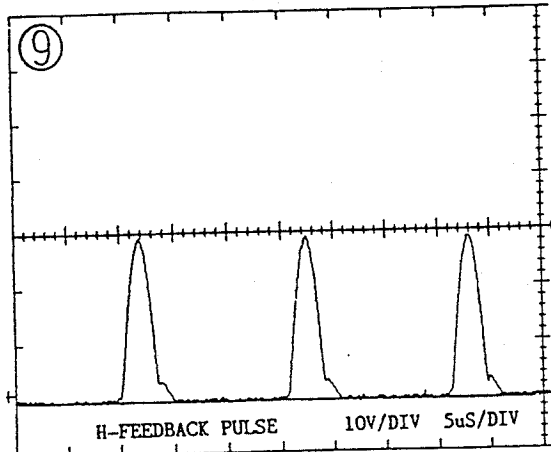


# Wave Form of Normal Condition

2

64KHz Mode

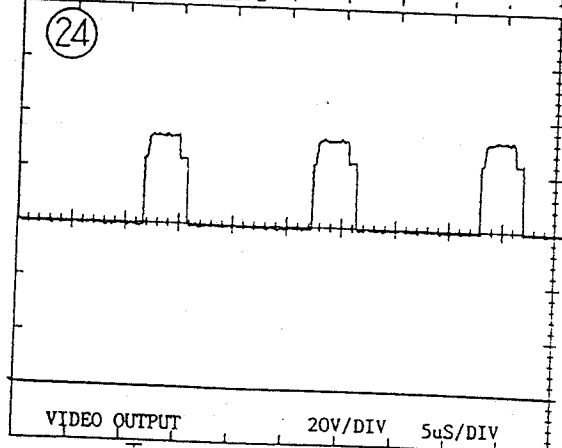
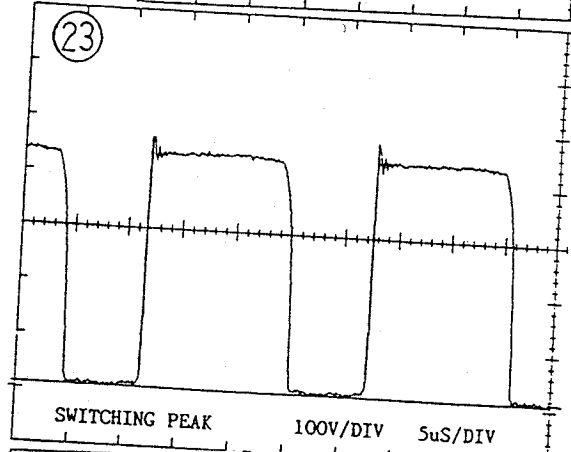
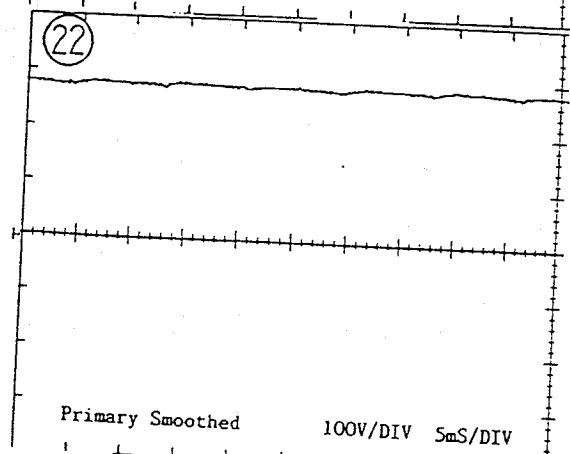
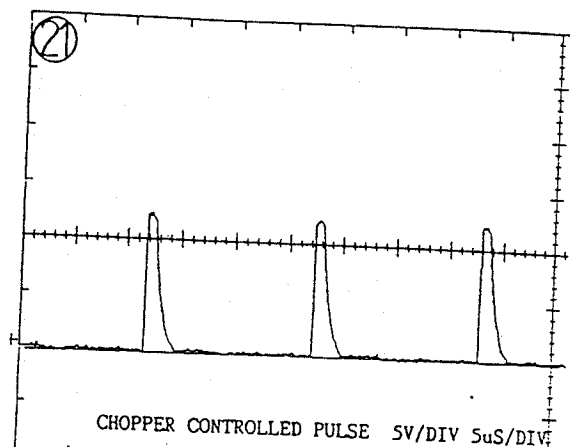
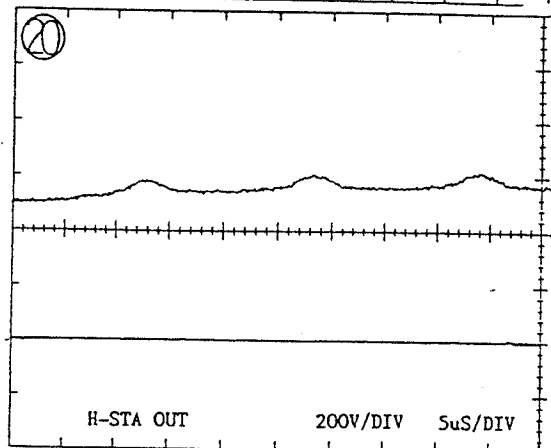
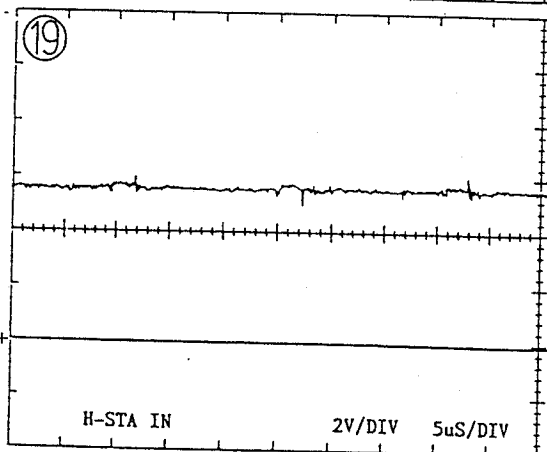
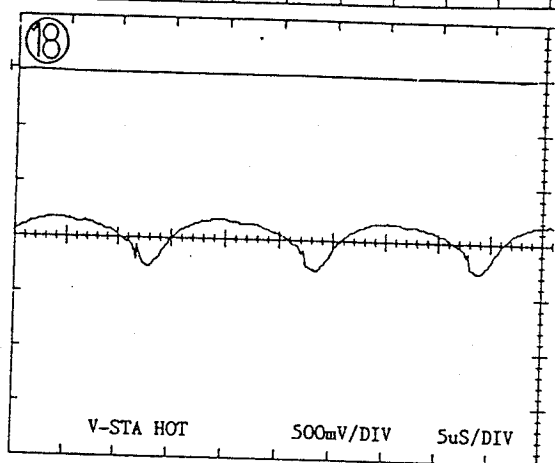
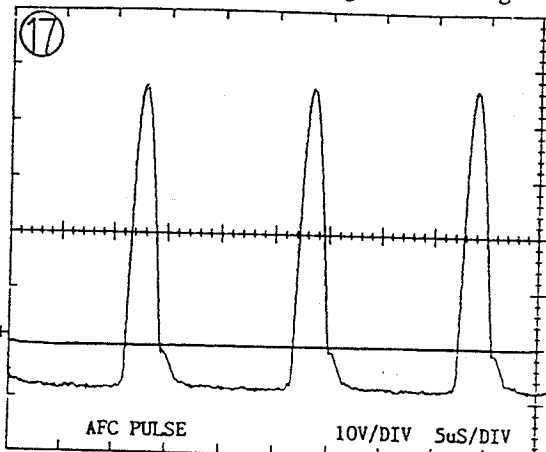
Each numbers are corresponding to Circuit diagrams



# Wave Form of Normal Condition

3 - 64KHz Mode

Each numbers are corresponding to Circuit diagrams







A

B

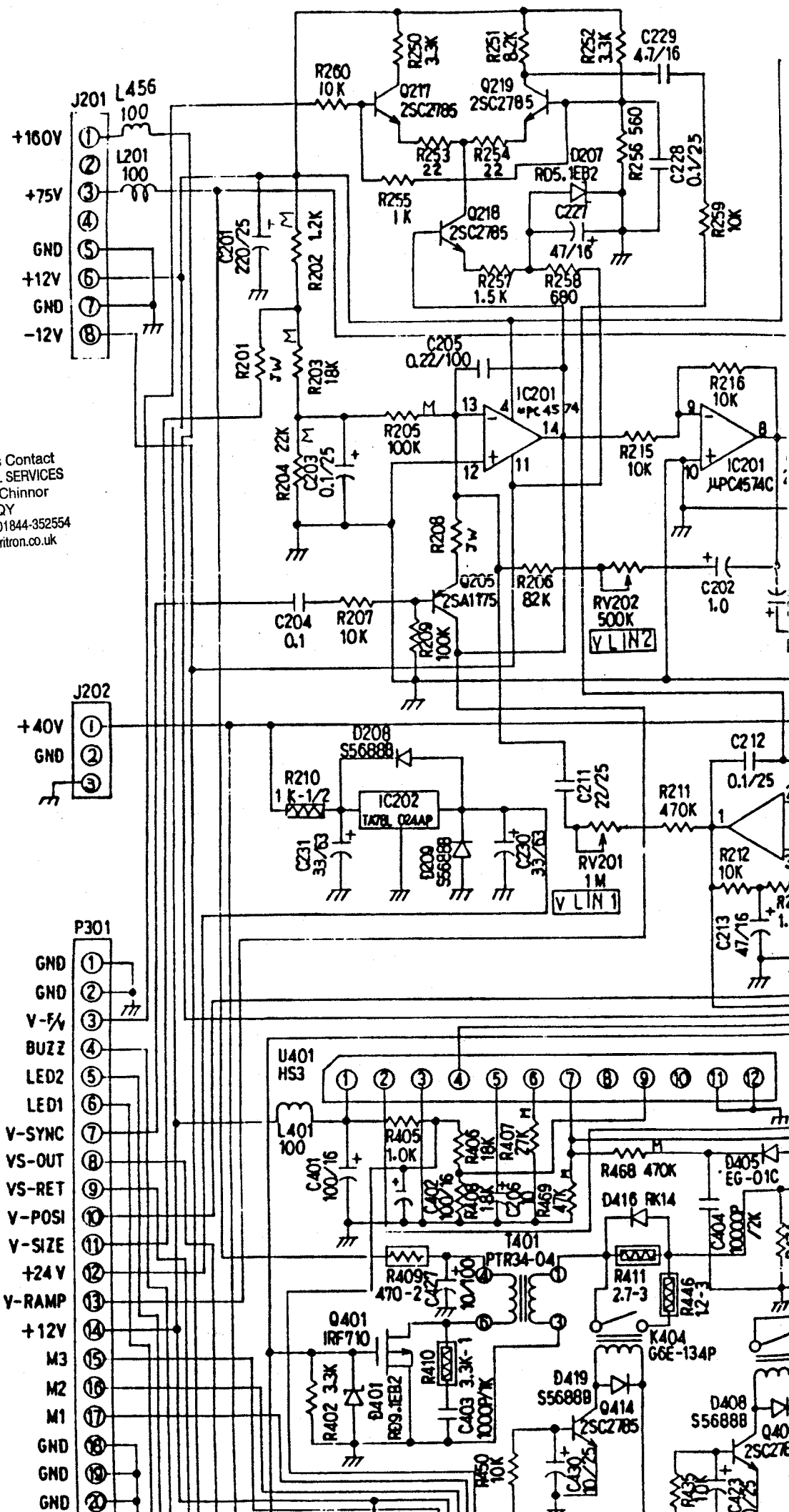
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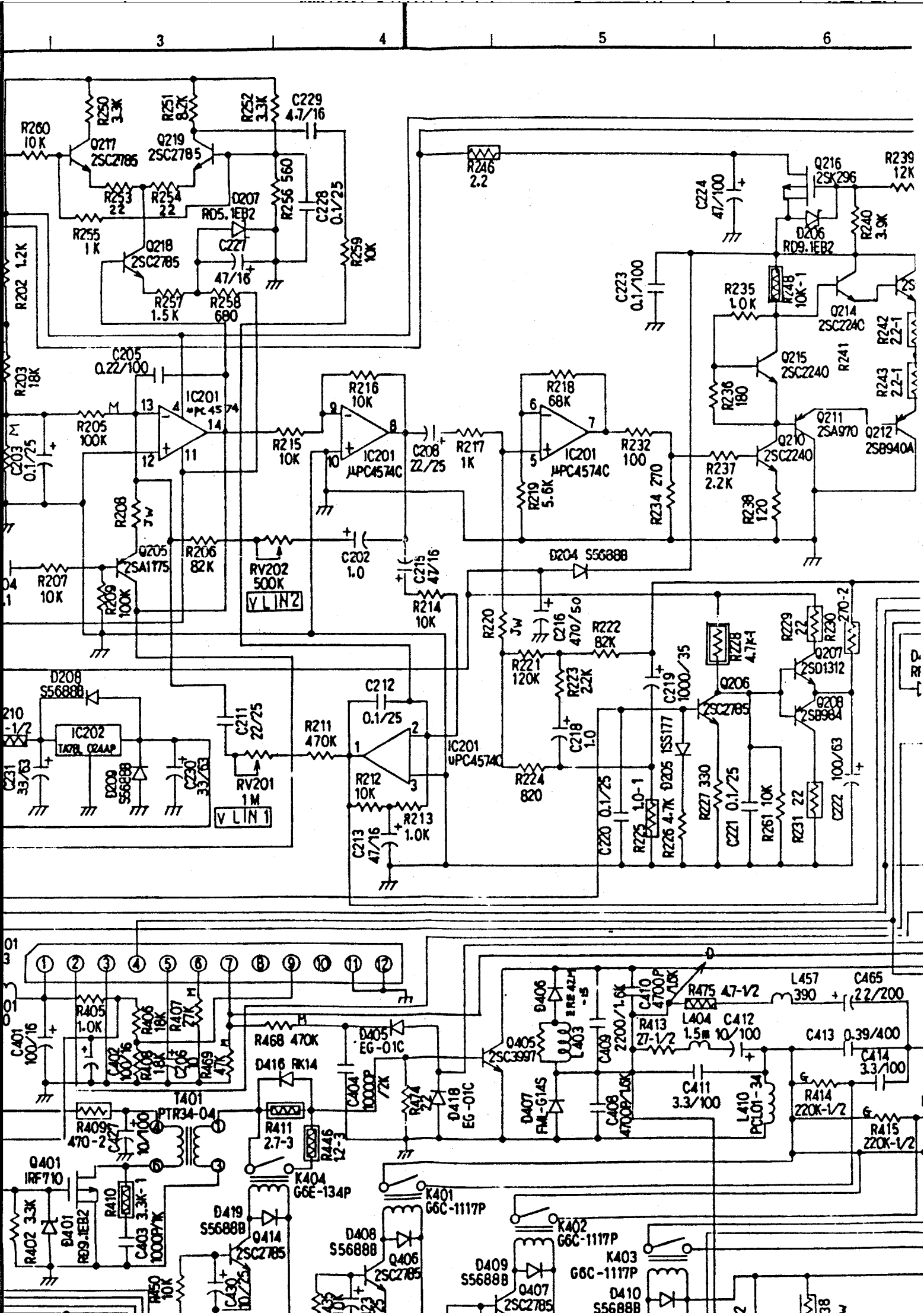
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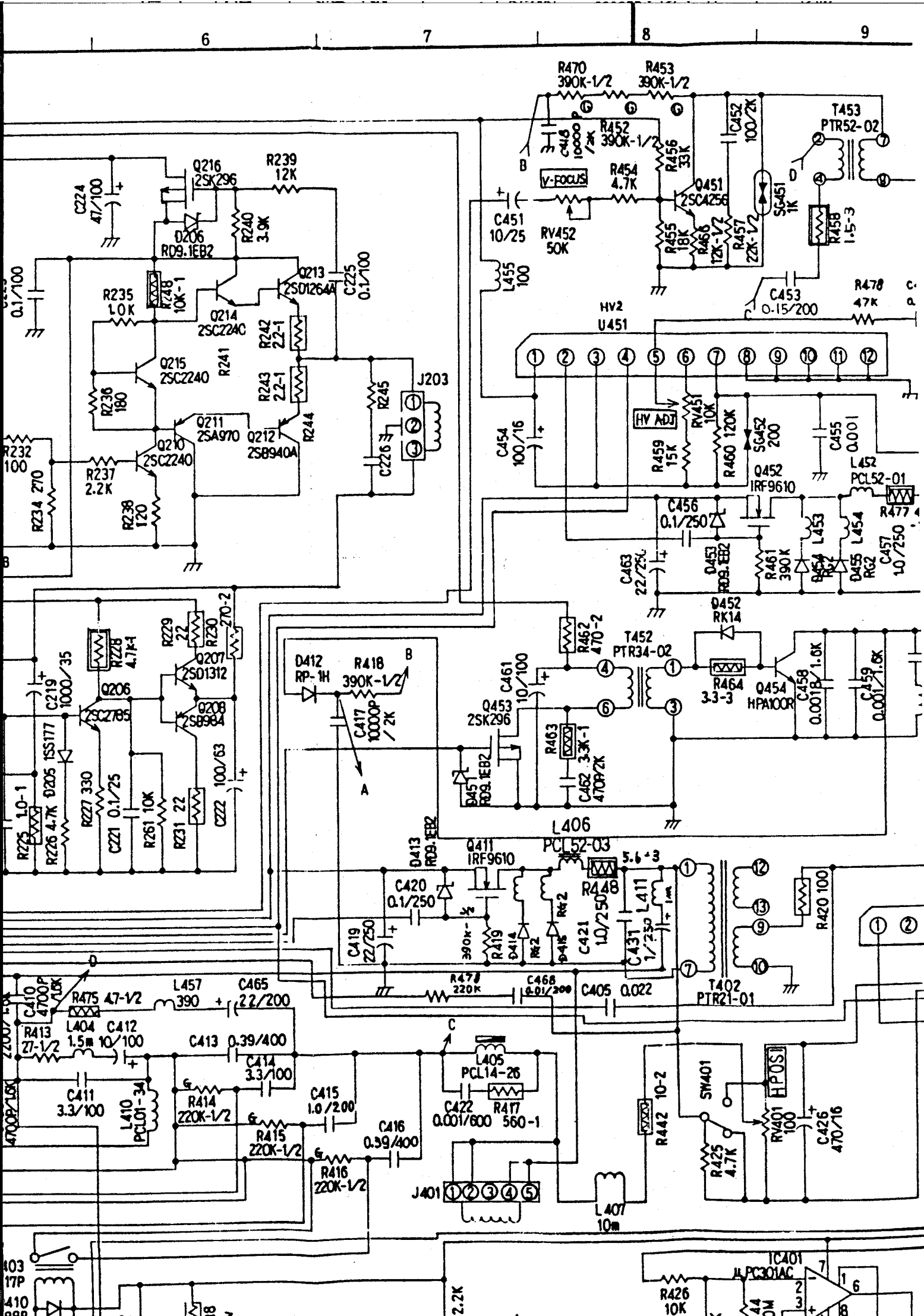
E

F

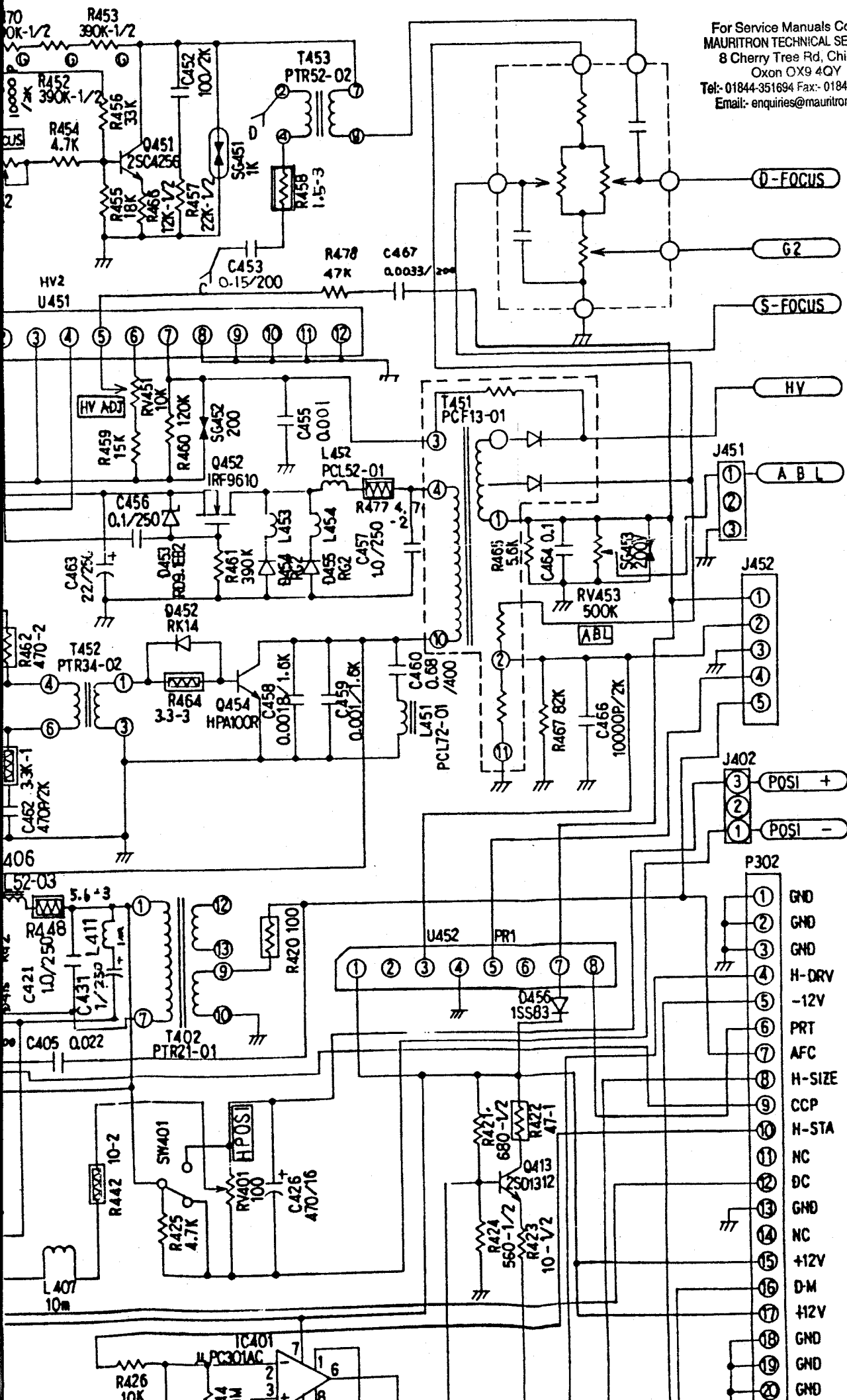
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A

B

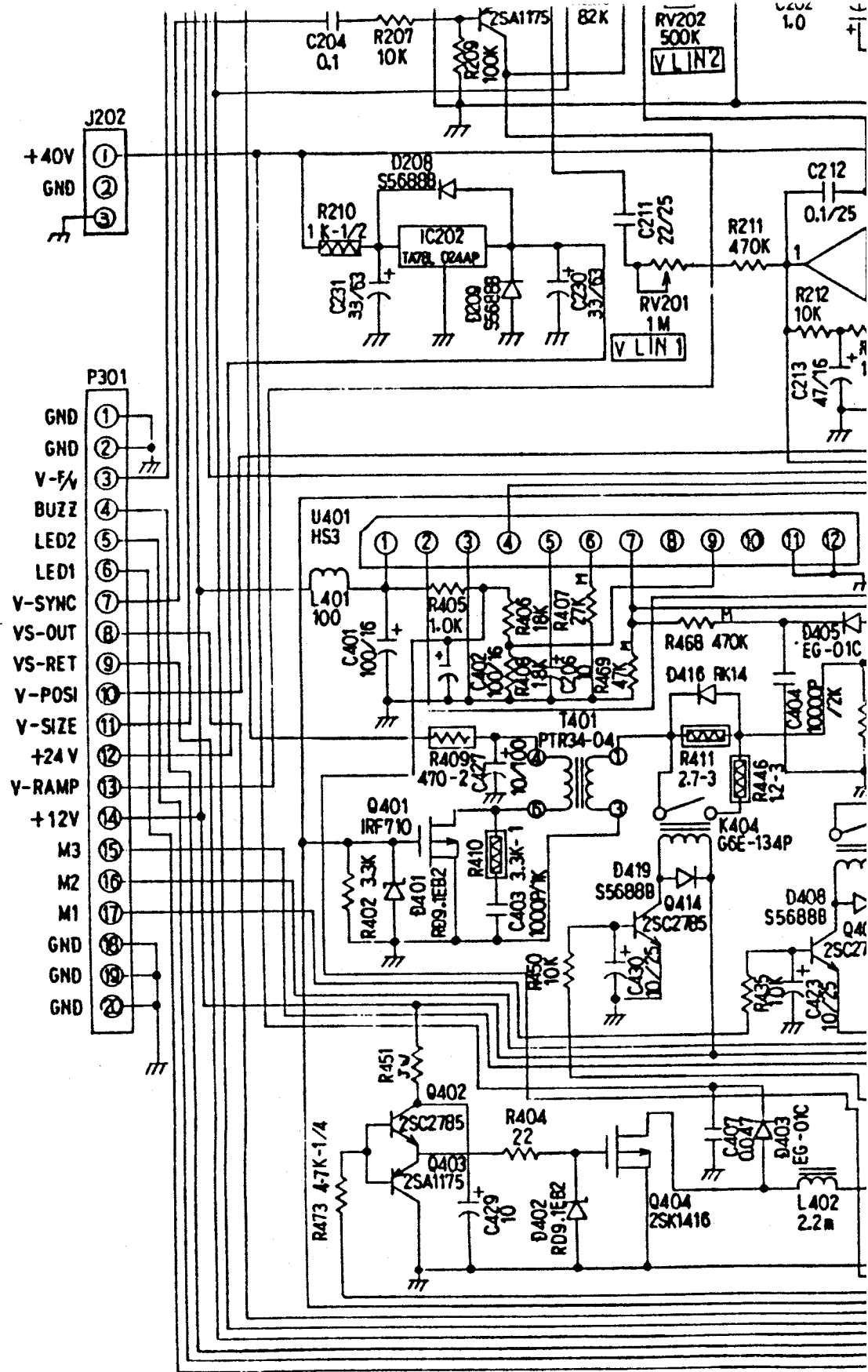
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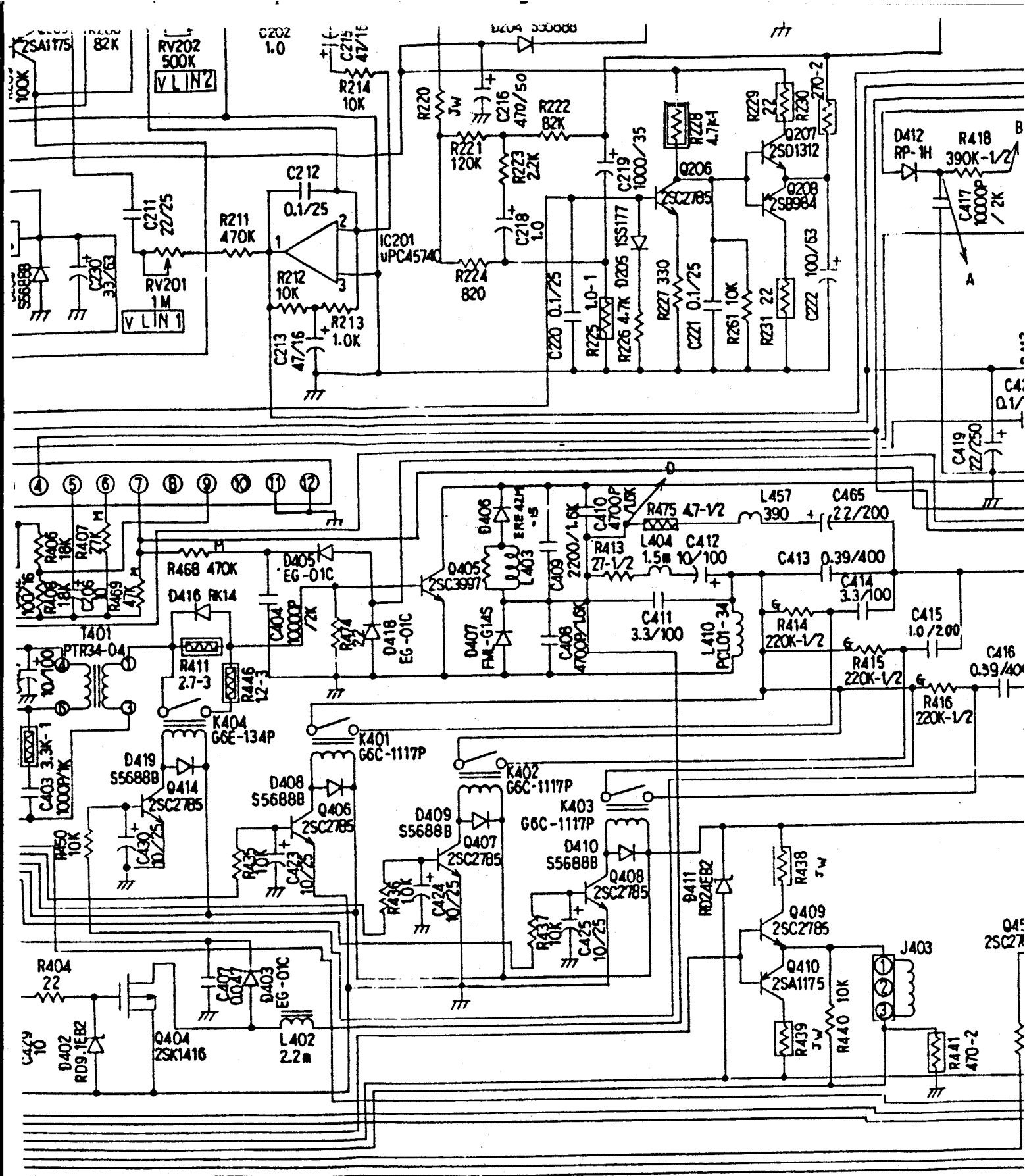
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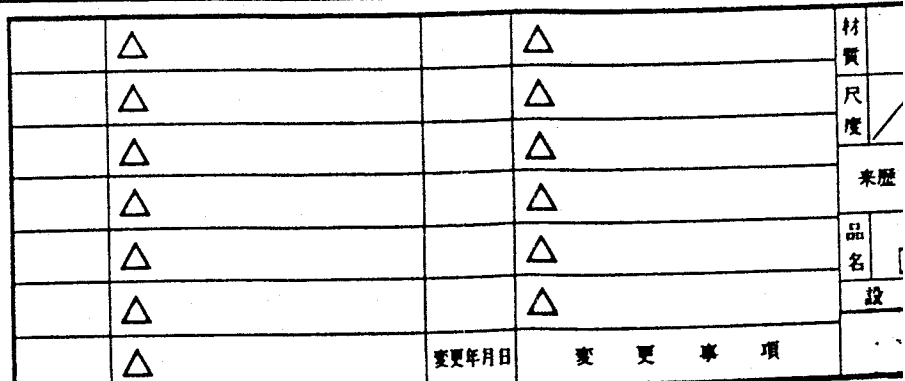
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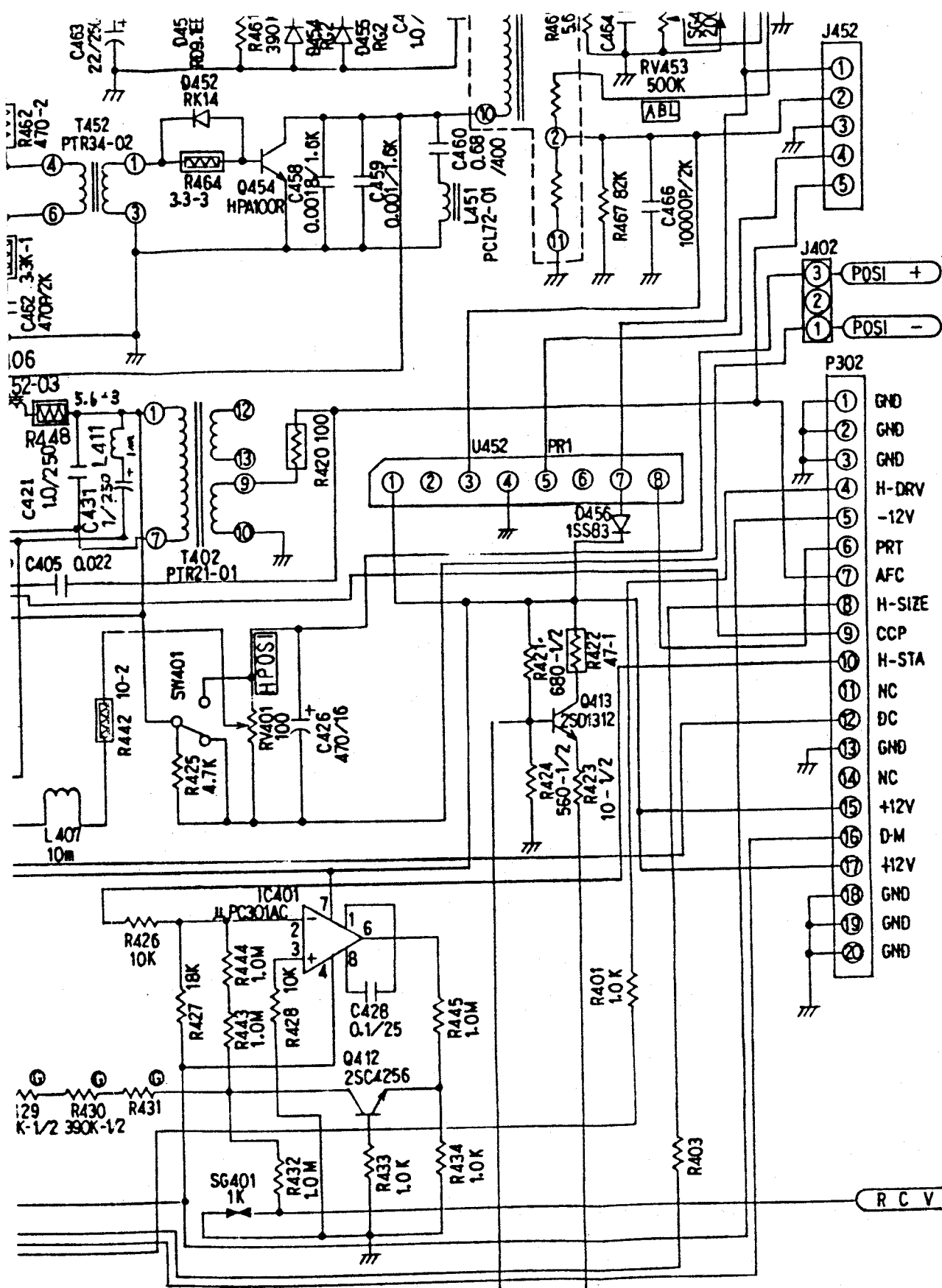
F

C  
D  
E  
F  
G  
H







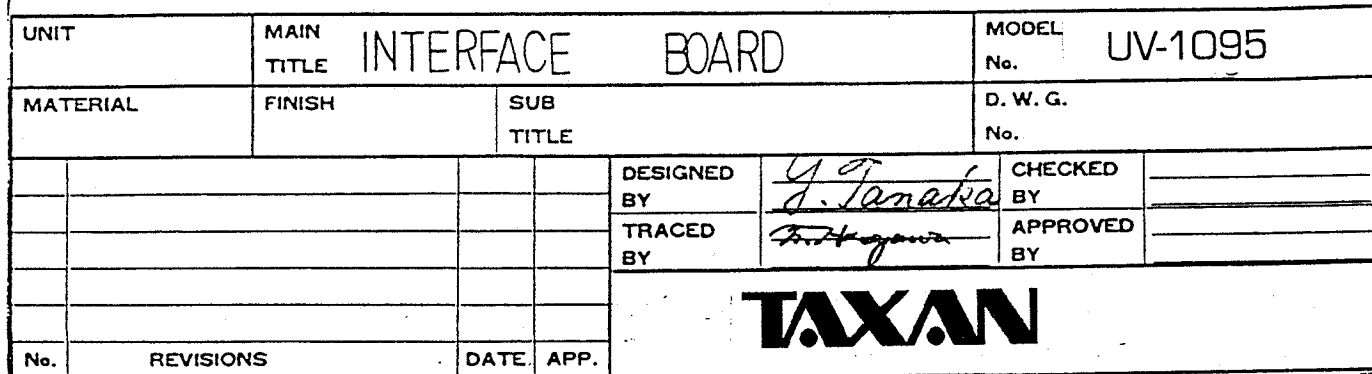


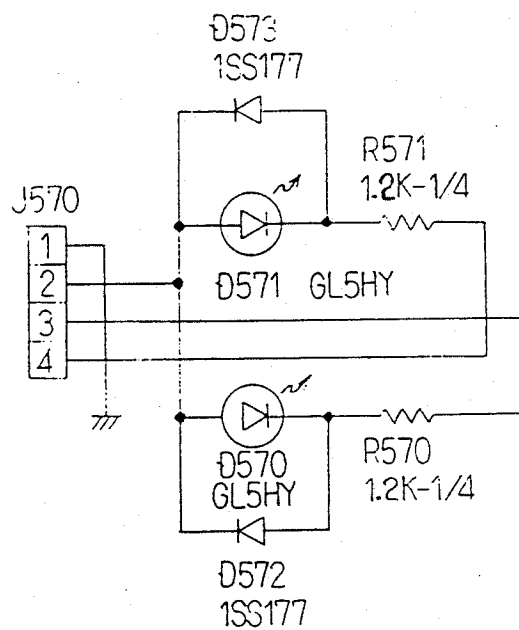
|                                                                                                          |  |  |                                                                                                                                      |  |  |
|----------------------------------------------------------------------------------------------------------|--|--|--------------------------------------------------------------------------------------------------------------------------------------|--|--|
| <div style="display: flex; justify-content: space-between;"> <span>△</span> <span>材質</span> </div>       |  |  | <div style="display: flex; justify-content: space-between;"> <span>處理</span> <span><b>TAXAN</b></span> </div>                        |  |  |
| <div style="display: flex; justify-content: space-between;"> <span>△</span> <span>尺度</span> </div>       |  |  | <div style="display: flex; justify-content: space-between;"> <span>單位</span> <span>m</span> <span>個數</span> <span>一般公差</span> </div> |  |  |
| <div style="display: flex; justify-content: space-between;"> <span>△</span> <span>來歷・摘要</span> </div>    |  |  | <div style="display: flex; justify-content: space-between;"> <span>年月日</span> <span>90 10 20</span> </div>                           |  |  |
| <div style="display: flex; justify-content: space-between;"> <span>△</span> <span>品名</span> </div>       |  |  | <div style="display: flex; justify-content: space-between;"> <span>部品名</span> <span>回路図</span> </div>                                |  |  |
| <div style="display: flex; justify-content: space-between;"> <span>△</span> <span>設計</span> </div>       |  |  | <div style="display: flex; justify-content: space-between;"> <span>製図</span> <span>檢図</span> <span>承認</span> </div>                  |  |  |
| <div style="display: flex; justify-content: space-between;"> <span>變更年月日</span> <span>變更事項</span> </div> |  |  | <div style="display: flex; justify-content: space-between;"> <span>圖面番号</span> <span>UBG572 A00010-13</span> </div>                  |  |  |



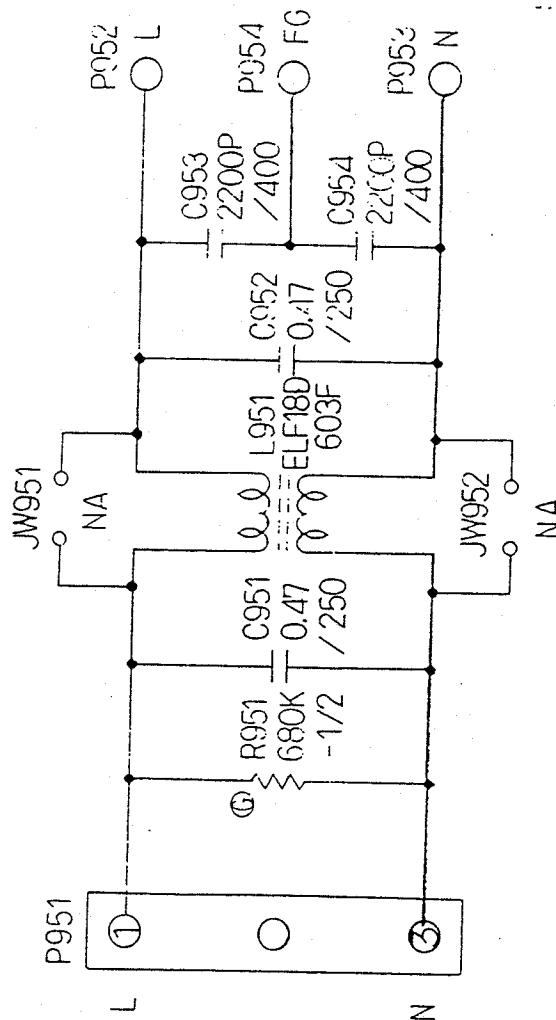


[illegible]



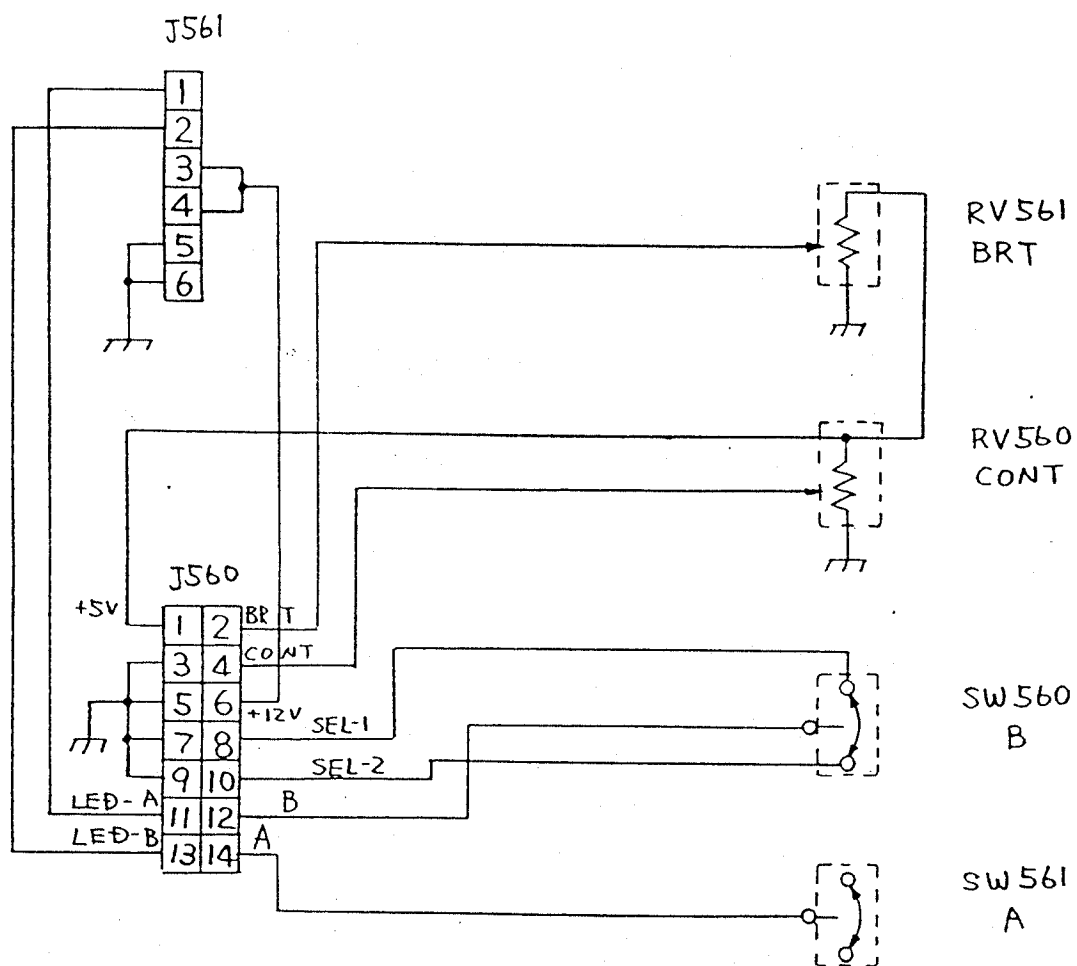


|              |           |            |      |             |                  |              |  |         |  |
|--------------|-----------|------------|------|-------------|------------------|--------------|--|---------|--|
| UNIT         |           | MAIN TITLE |      | LED BOARD   |                  | MODEL No.    |  | UV-1095 |  |
| MATERIAL     |           | FINISH     |      | SUB TITLE   |                  | D. W. G. No. |  |         |  |
|              |           |            |      | DESIGNED BY | <i>Y. Tanaka</i> | CHECKED BY   |  |         |  |
|              |           |            |      | TRACED BY   | <i>Y. Tanaka</i> | APPROVED BY  |  |         |  |
| <b>TAXAN</b> |           |            |      |             |                  |              |  |         |  |
| No.          | REVISIONS |            | DATE | APP.        |                  |              |  |         |  |



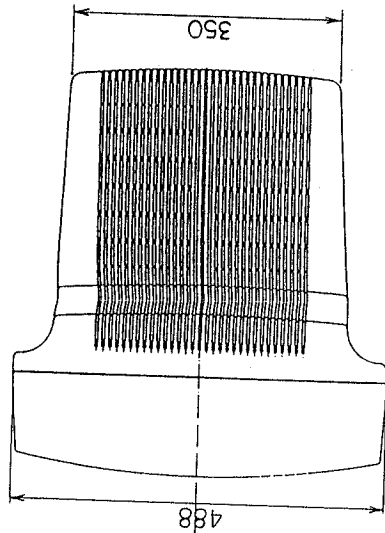
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|----------|-----------|-------------------|-------------|------------------|--------------|
| UNIT     |           | MAIN TITLE        |             | MODEL No.        |              |
|          |           | LINE FILTER BOARD |             | UV-1095          |              |
| MATERIAL |           | FINISH            | SUB TITLE   |                  | D. W. G. No. |
|          |           |                   |             |                  |              |
|          |           |                   | DESIGNED BY | <i>Y. Tanaka</i> | CHECKED BY   |
|          |           |                   | TRACED BY   | <i>Shigeyasu</i> | APPROVED BY  |
|          |           |                   |             |                  |              |
| No.      | REVISIONS |                   |             |                  |              |





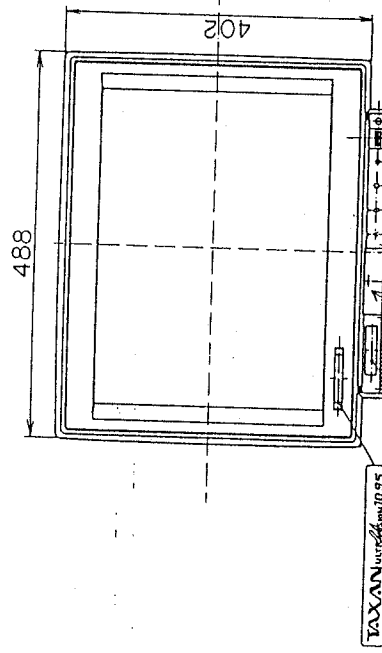
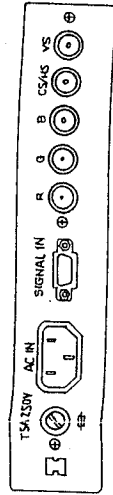
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|----------|--|------------|--|---------------|--|--------------|--|-------------|--|
| UNIT     |  | MAIN TITLE |  | CONTROL BOARD |  | MODEL No.    |  | UV-1095     |  |
| MATERIAL |  | FINISH     |  | SUB TITLE     |  | D. W. G. No. |  |             |  |
|          |  |            |  |               |  | DESIGNED BY  |  | CHECKED BY  |  |
|          |  |            |  |               |  | Y. Tanaka    |  |             |  |
|          |  |            |  |               |  | TRACED BY    |  | APPROVED BY |  |
|          |  |            |  |               |  | M. Hasegawa  |  |             |  |
|          |  |            |  |               |  |              |  |             |  |
|          |  |            |  |               |  |              |  |             |  |
| No.      |  | REVISIONS  |  | DATE          |  | APP.         |  |             |  |





(SWIVELL) 45° 45°

DETAIL I/O AREA

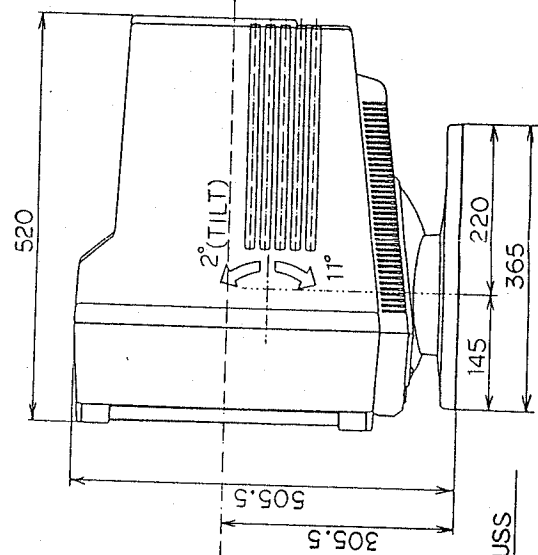
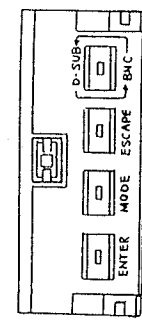


TAXAN UV-1095

LCD

COVER SWITCH (PUSH OPEN)

DETAIL COVER SWITCH INSIDE



2° (TILT)

305.5

505.5

DEGAUSS

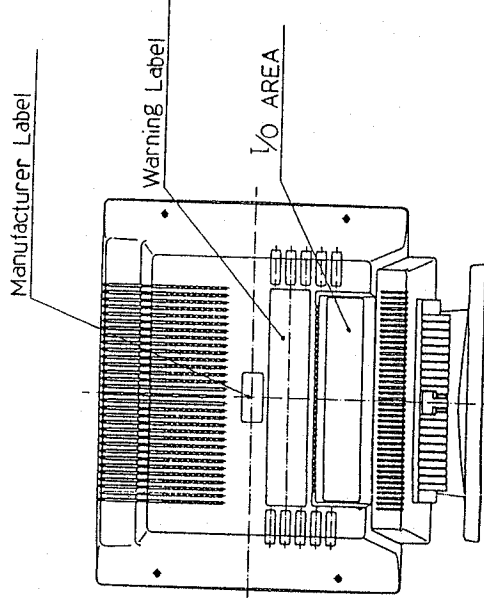
POWER

CONT

BRIGHT

B

A



Manufacturer Label

Warning Label

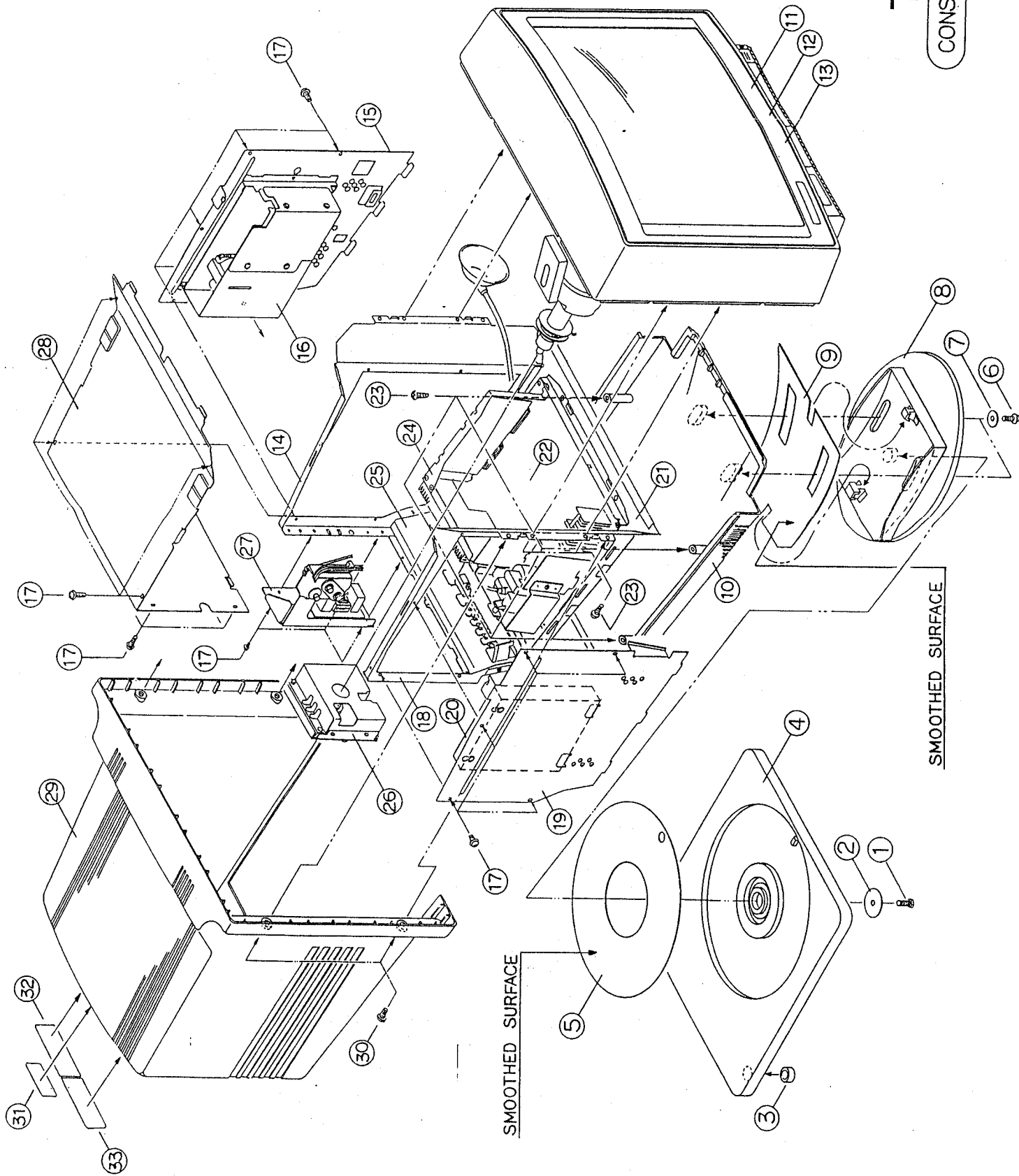
I/O AREA

OUTLINE DRAWING

| UNIT        | MAIN TITLE | FINISH | SUB TITLE | MODEL No.    | UV-1095 |
|-------------|------------|--------|-----------|--------------|---------|
| MATERIAL    |            |        |           | D. W. G. No. |         |
| DESIGNED BY |            |        |           | CHECKED BY   |         |
| TRACED BY   |            |        |           | APPROVED BY  |         |
| REVISIONS   |            |        |           |              |         |
| No.         |            |        |           | DATE         | APP.    |

TAXAN

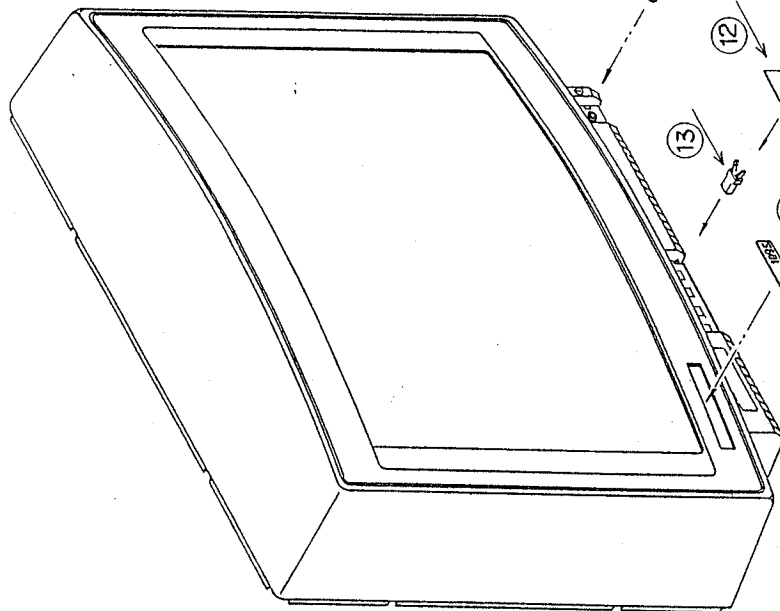
|    |                                                |
|----|------------------------------------------------|
| 1  | M5X20 HEXAGON HEAD BOLT.                       |
| 2  | 8X39X2 SPACER.                                 |
| 3  | RUBBER FEET.                                   |
| 4  | BASE.                                          |
| 5  | BUSHING TURRET.                                |
| 6  | M5X15 PAN-HEAD WITH SP. PLAIN WASHERS.         |
| 7  | 5X25X2 SPACER.                                 |
| 8  | TURRET.                                        |
| 9  | BUSHING TILT.                                  |
| 10 | TILT.                                          |
| 11 | BEZEL ASSY.                                    |
| 12 | STAY CRT ASSY.                                 |
| 13 | POWER SW. A.B. LED. SW.                        |
| 14 | LCM PWB ASSY.                                  |
| 15 | PANEL R.                                       |
| 16 | PANEL SWR.                                     |
| 17 | PS PWB ASSY.                                   |
| 18 | 4X10 TAPPING SCREWS WITH TOOTHED LOCK WASHERS. |
| 19 | PANEL L.                                       |
| 20 | PANEL VIDEO.                                   |
| 21 | VIDEO PWB ASSY.                                |
| 22 | CHASSIS.                                       |
| 23 | DEF PWB ASSY.                                  |
| 24 | 4X12 TAPPING SCREWS.                           |
| 25 | HOLDER MCU.                                    |
| 26 | PANEL CN.                                      |
| 27 | CRT PWB ASSY.                                  |
| 28 | HOLDER LF.                                     |
| 29 | SHIELD U.                                      |
| 30 | COVER.                                         |
| 31 | 4X12 TAPPING SCREWS (N)                        |
| 32 | MANUFACTURER LABEL.                            |
| 33 | RATING LABEL.                                  |
| 34 | WARNING LABEL.                                 |



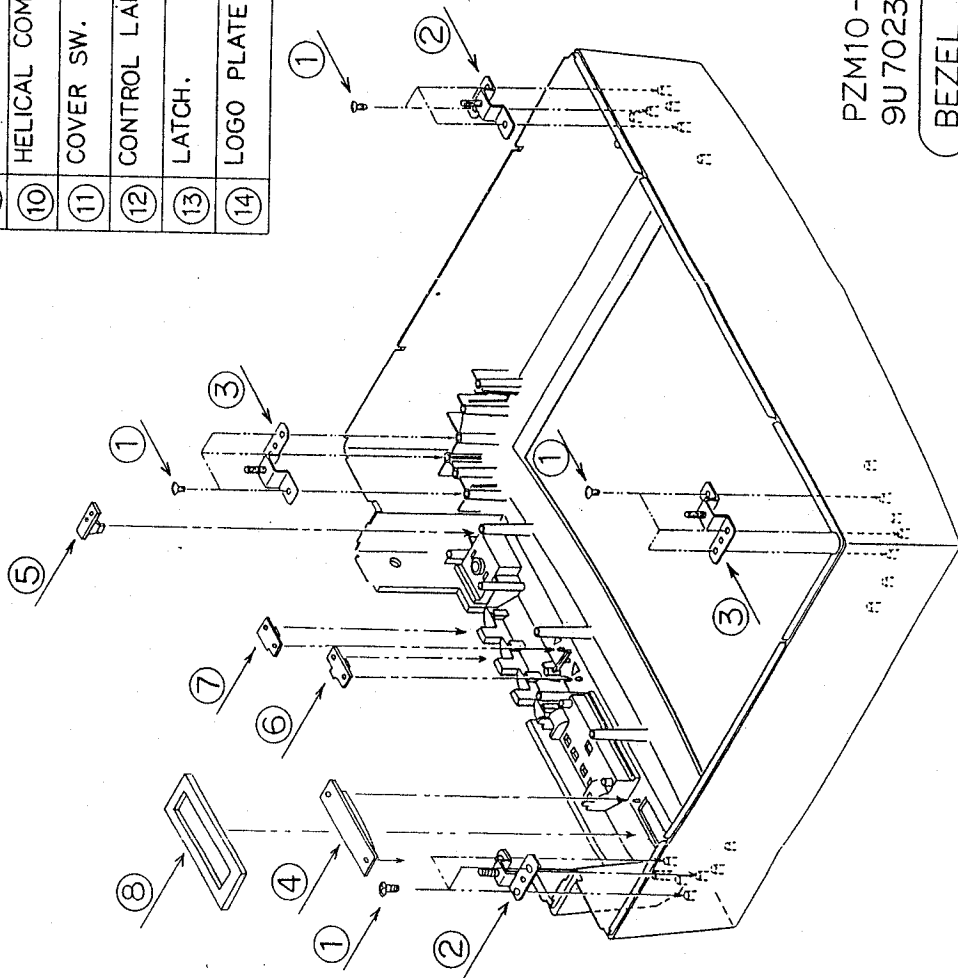
**TAXAN**

CONSTRUCTION DIAGRAM

UV-1095



|   |                             |
|---|-----------------------------|
| ① | 5 x 16 TAPPING SCREWS.      |
| ② | HOLDER CRT-A.               |
| ③ | HOLDER CRT-B.               |
| ④ | ACRYLIC COVER.              |
| ⑤ | LED LENS A.                 |
| ⑥ | LED LENS B-1.               |
| ⑦ | LED LENS B-2.               |
| ⑧ | SPACER OF DUST PREVENTION.  |
| ⑨ | KNOB SW.                    |
| ⑩ | HELICAL COMPRESSION SPRING. |
| ⑪ | COVER SW.                   |
| ⑫ | CONTROL LABEL A.            |
| ⑬ | LATCH.                      |
| ⑭ | LOGO PLATE.                 |

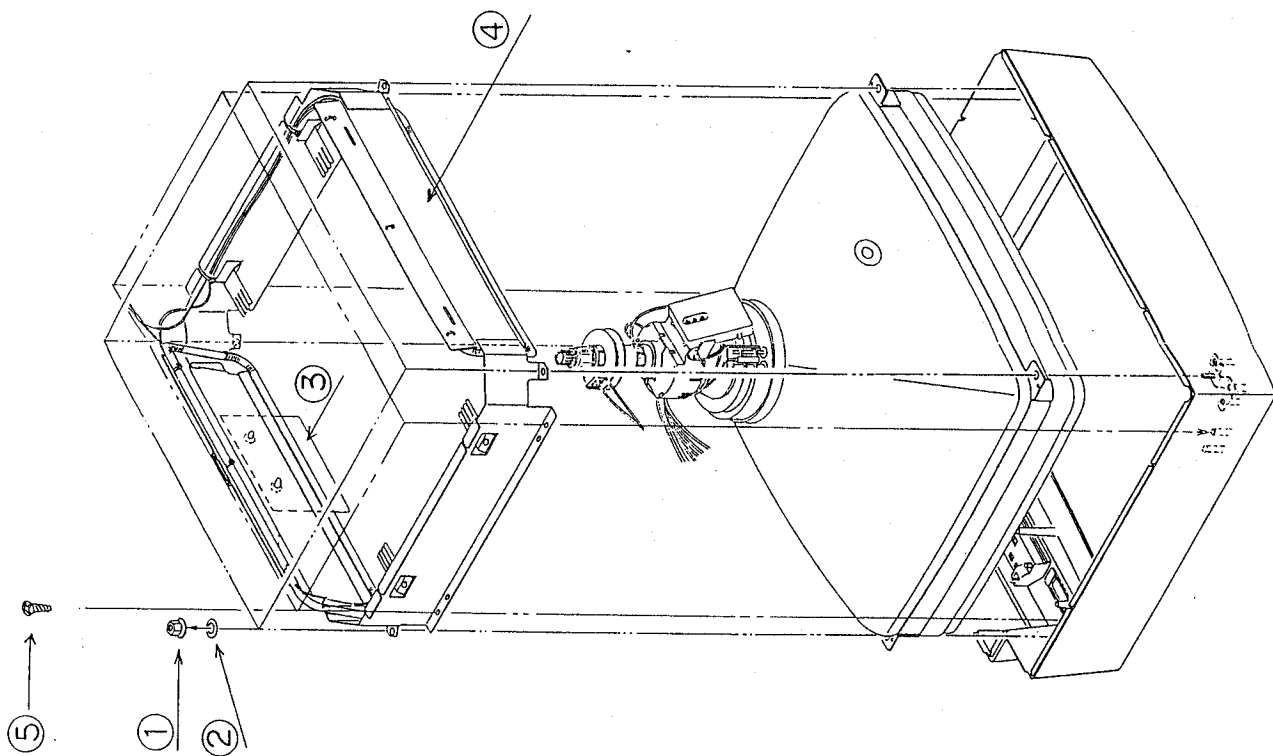


PZM10-818

9U70239-00

BEZEL ASS'Y

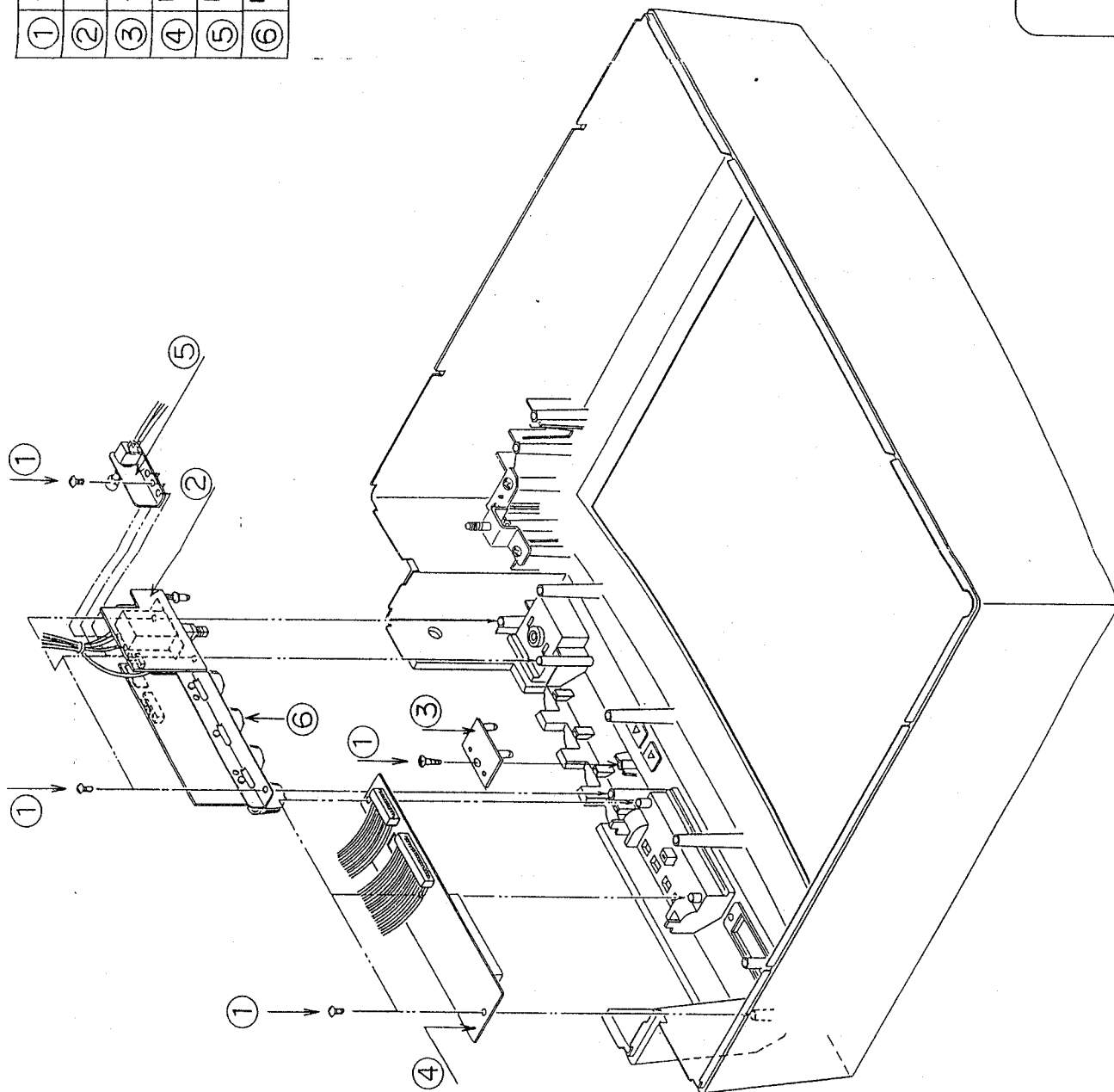
|   |                             |
|---|-----------------------------|
| ① | M5-NUTS WITH FLANGE.        |
| ② | 6 x 16 x 1.5 PLAIN WASHERS. |
| ③ | INSULATION PLATE DEG.       |
| ④ | STAY CRT ASS'Y.             |
| ⑤ | 4 x 12 TAPPING SCREWS.      |



STAY CRT ASS'Y

UV-1095

|   |                                 |
|---|---------------------------------|
| ① | 3 x 8 TAPPING SCREWS.           |
| ② | POWER SW AND A, B SW PWB ASS'Y. |
| ③ | A, B LED PWB ASS'Y.             |
| ④ | LCD PWB ASS'Y.                  |
| ⑤ | HOLDER DEG SW.                  |
| ⑥ | KNOB VR.                        |



7S82046-70

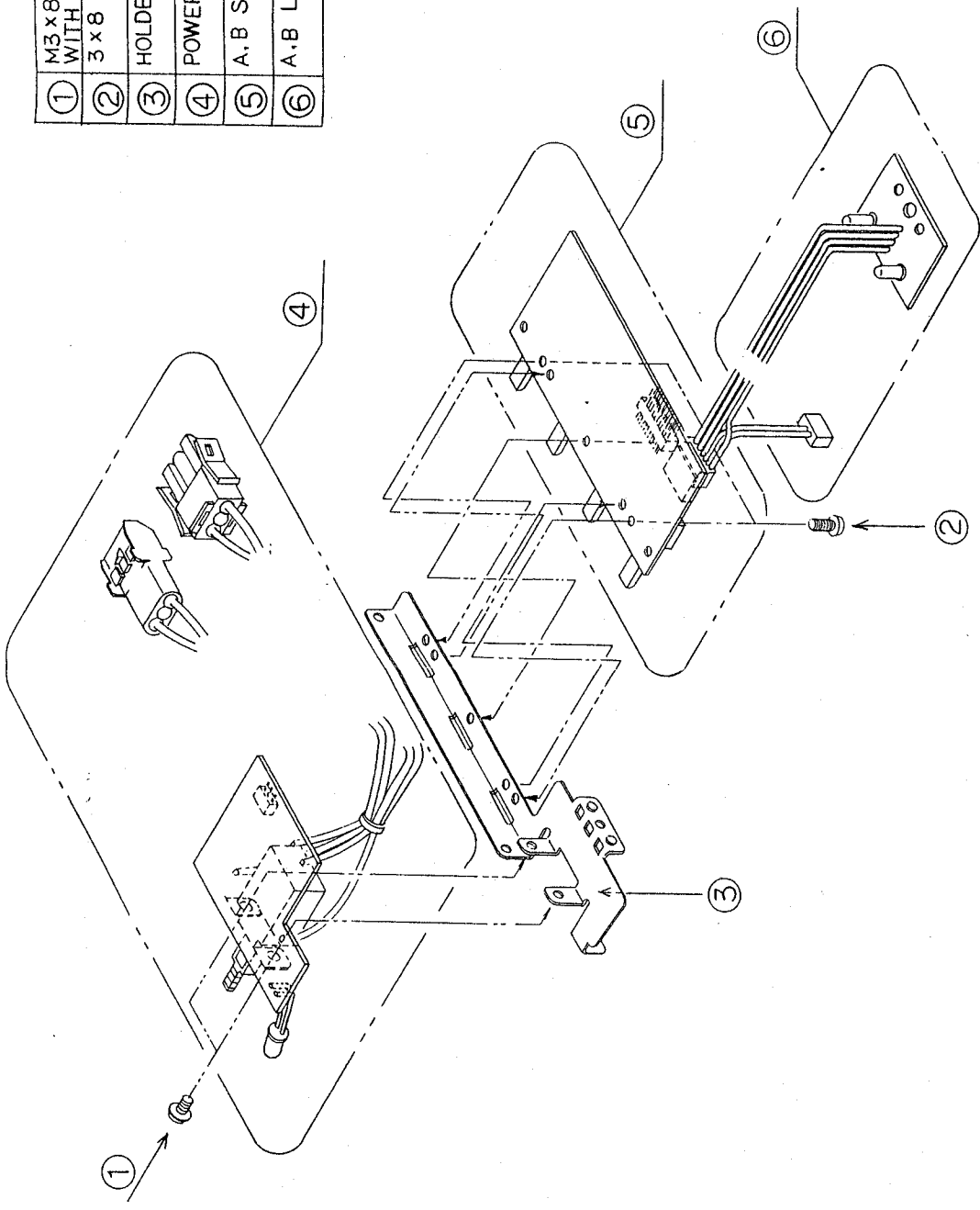
INTERFACE BLOCK ASS'Y

POWER SW PWB ASS'Y

A, B SW, LED PWB ASS'Y

( LCD PWB ASS'Y )

|   |                                                                   |
|---|-------------------------------------------------------------------|
| ① | M3x8 PAN-HEAD<br>WITH SP. PLAIN WASHERS.<br>3 x 8 TAPPING SCREWS. |
| ② |                                                                   |
| ③ | HOLDER VR.                                                        |
| ④ | POWER SW PWB ASS'Y.                                               |
| ⑤ | A,B SW PWB ASS'Y.                                                 |
| ⑥ | A,B LED PWB ASS'Y.                                                |

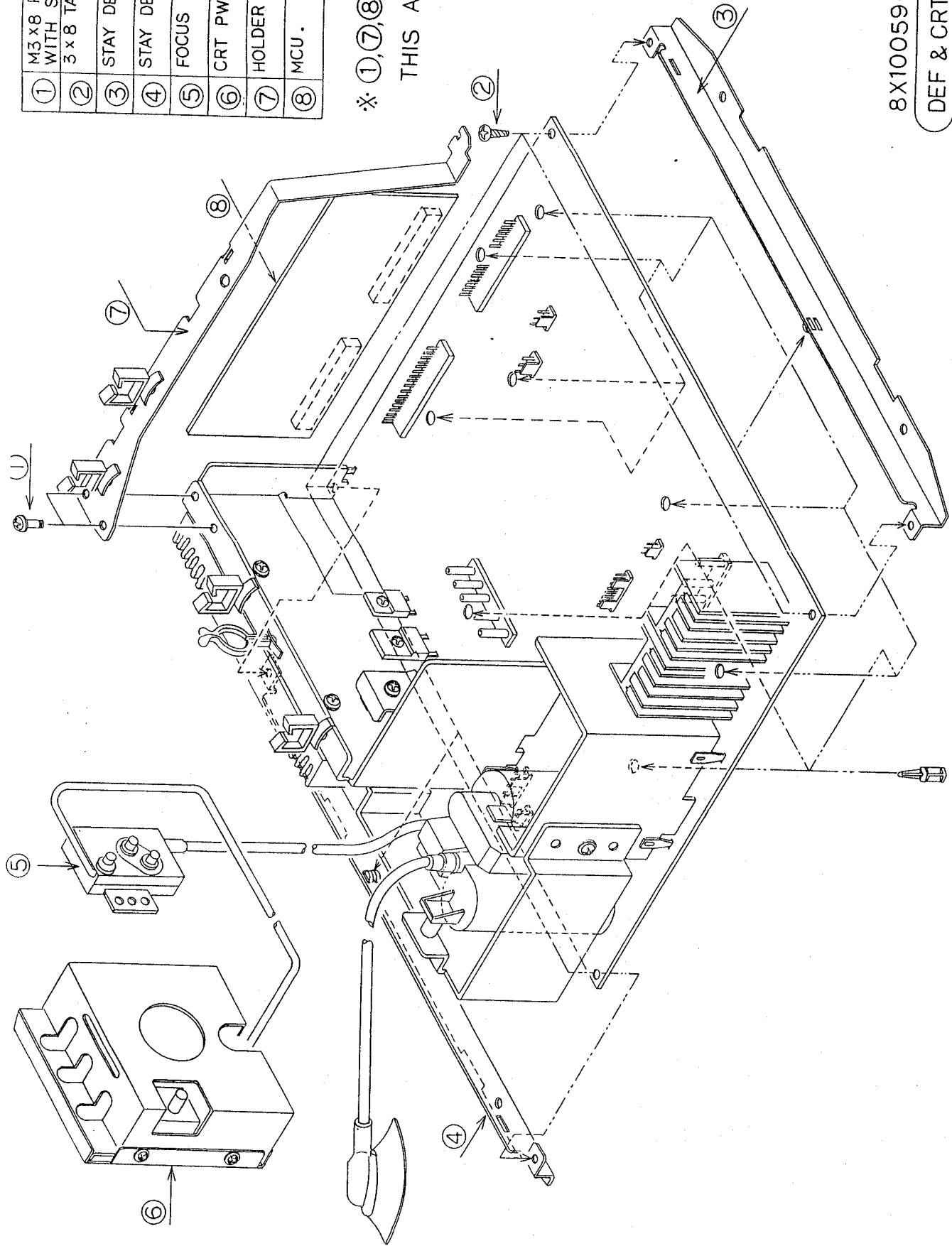


7S82046-70

- INTERFACE BLOCK ASS'Y
- POWER SW PWB ASS'Y
- A,B SW PWB ASS'Y
- A,B LED PWB ASS'Y

|   |                                            |
|---|--------------------------------------------|
| ① | M3 x 8 PAN-HEAD<br>WITH SP. PLAIN WASHERS. |
| ② | 3 x 8 TAPPING SCREWS.                      |
| ③ | STAY DEF.                                  |
| ④ | STAY DEF-R.                                |
| ⑤ | FOCUS PACK.                                |
| ⑥ | CRT PWB UNIT.                              |
| ⑦ | HOLDER MCU.                                |
| ⑧ | MCU.                                       |

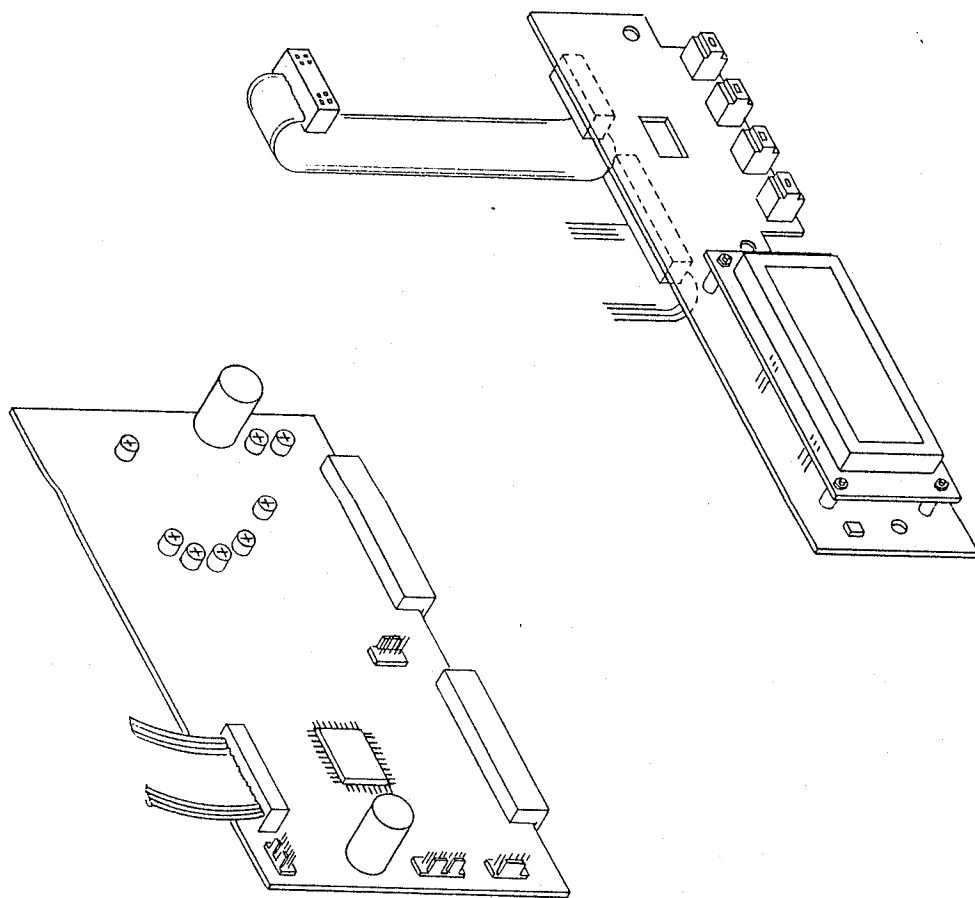
※ ①, ⑦, ⑧ NOT INCLUDED IN  
THIS ASS'Y.



8X10059-00

DEF & CRT PWB ASS'Y

UV-1095

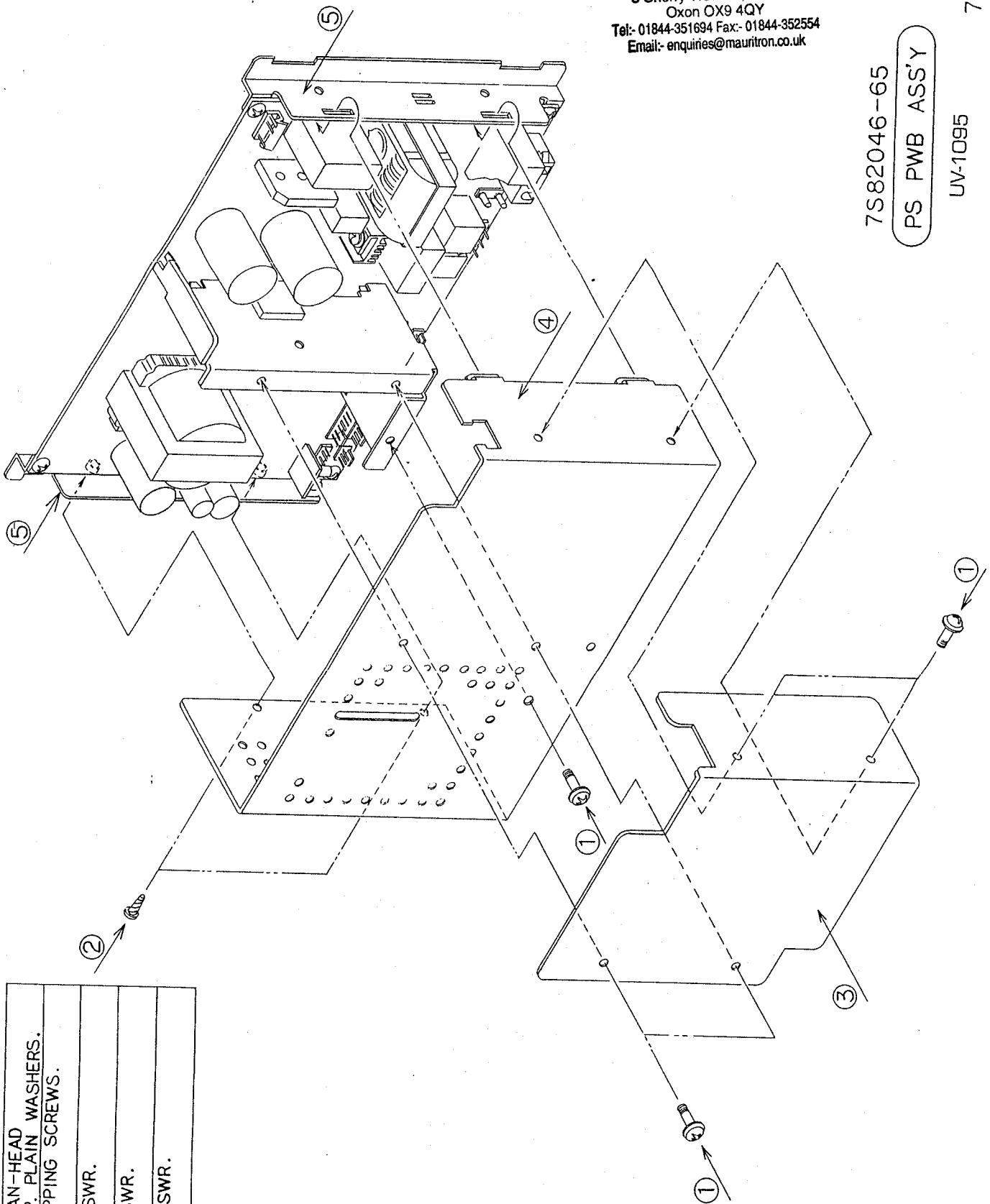


9T19212-00

MCU, LCD PWB ASSY

UV-1095

|   |                                            |
|---|--------------------------------------------|
| ① | M3 x 8 PAN-HEAD<br>WITH SP. PLAIN WASHERS. |
| ② | 3 x 8 TAPPING SCREWS.                      |
| ③ | SHIELD SWR.                                |
| ④ | COVER SWR.                                 |
| ⑤ | HOLDER SWR.                                |



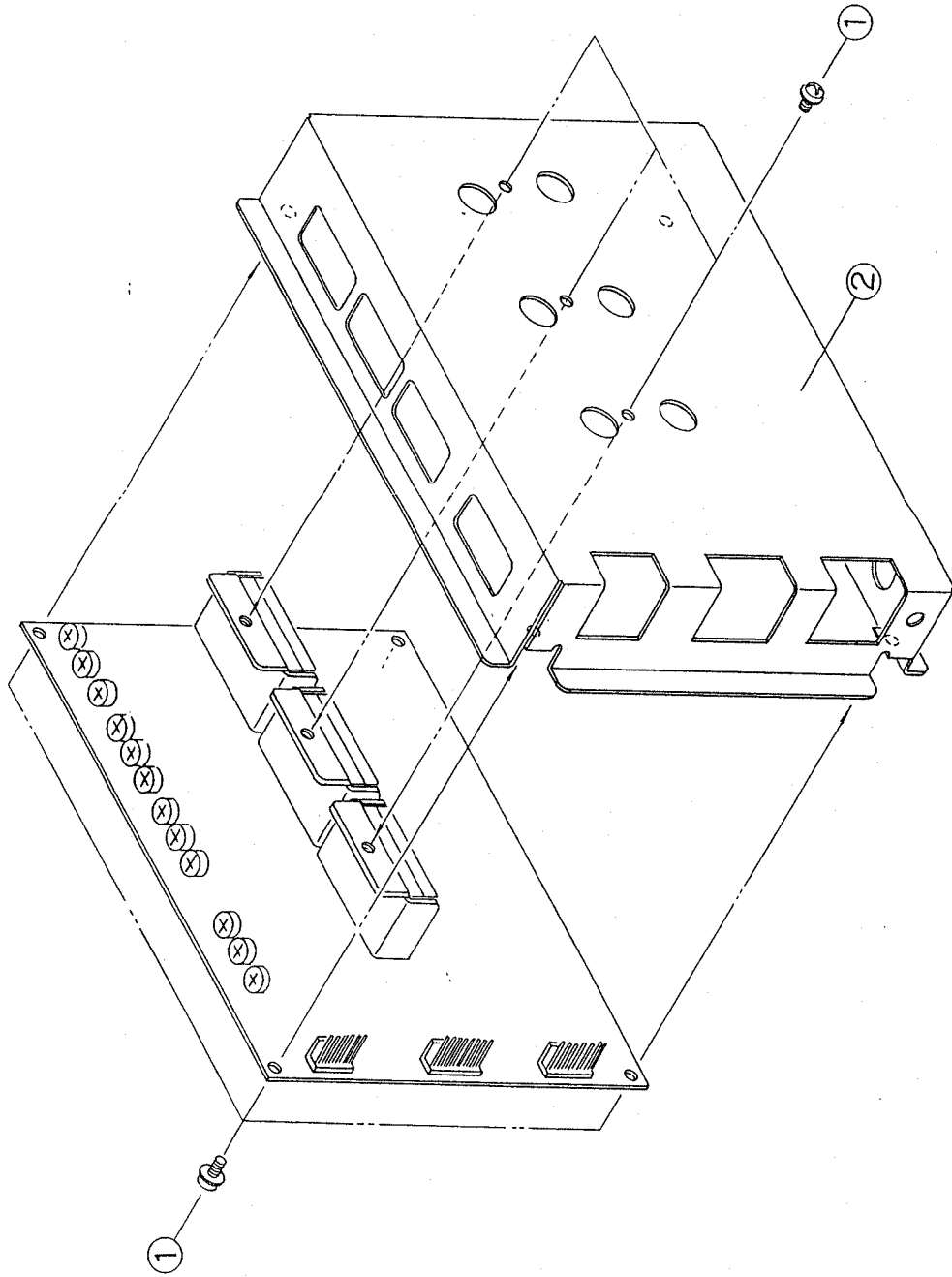
For Service Manuals Contact  
**MAURITRON TECHNICAL SERVICES**  
 8 Cherry Tree Rd, Chinnor  
 Oxon OX9 4QY  
 Tel:- 01844-351694 Fax:- 01844-352554  
 Email:- enquiries@mauritron.co.uk

7S82046-65

PS PWB ASS'Y

UV-1095

|   |                                          |
|---|------------------------------------------|
| ① | M3x8 PAN-HEAD<br>WITH SP. PLAIN WASHERS. |
| ② | VIDEO SHIELD.                            |



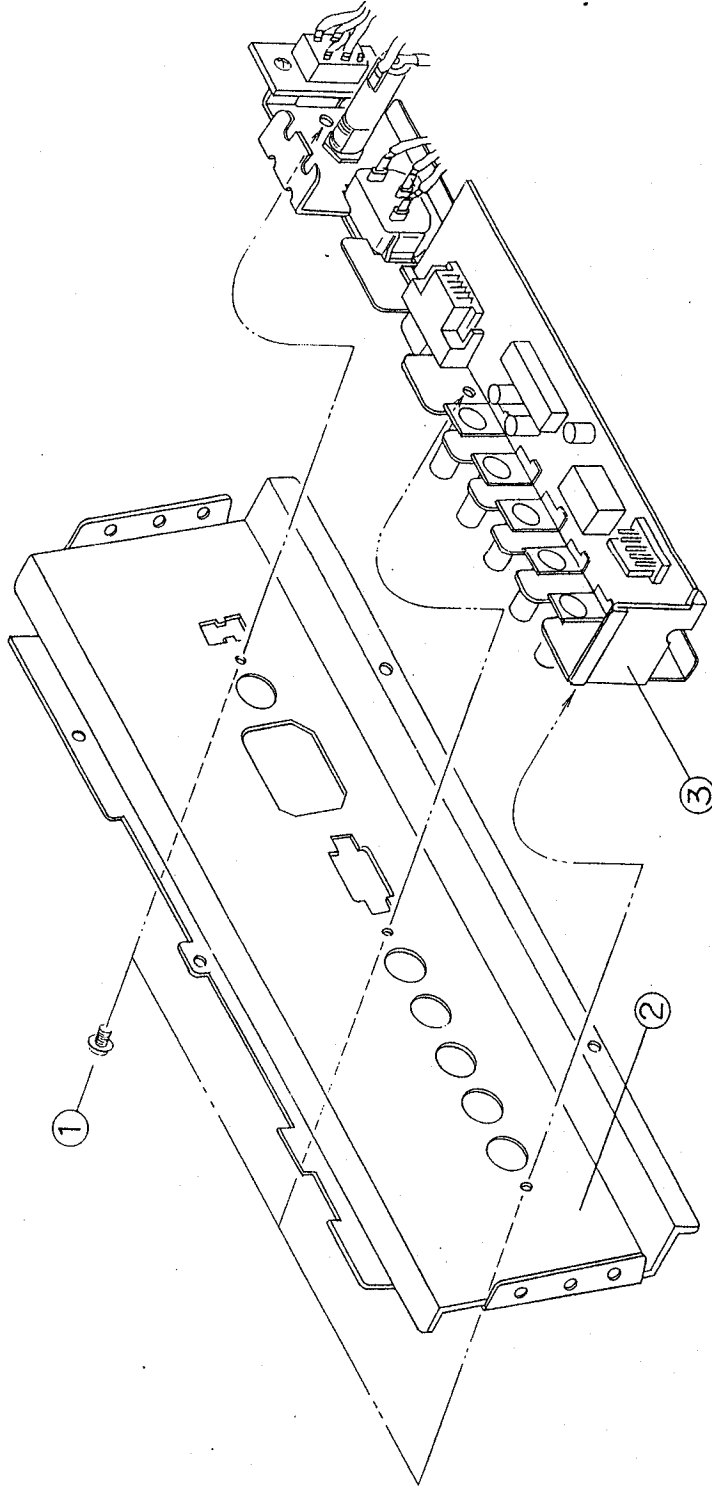
7S2046-50

VIDEO PWB ASS'Y

UV-1095

|   |                                               |
|---|-----------------------------------------------|
| ① | M3x8 PAN-HEAD<br>WITH SP. PLAIN WASHERS. (NI) |
| ② | PANEL CN. (NI)                                |
| ③ | HOLDER CN.                                    |

※ ①, ② NOT INCLUDED IN THIS  
ASS'Y.



7S82046-70

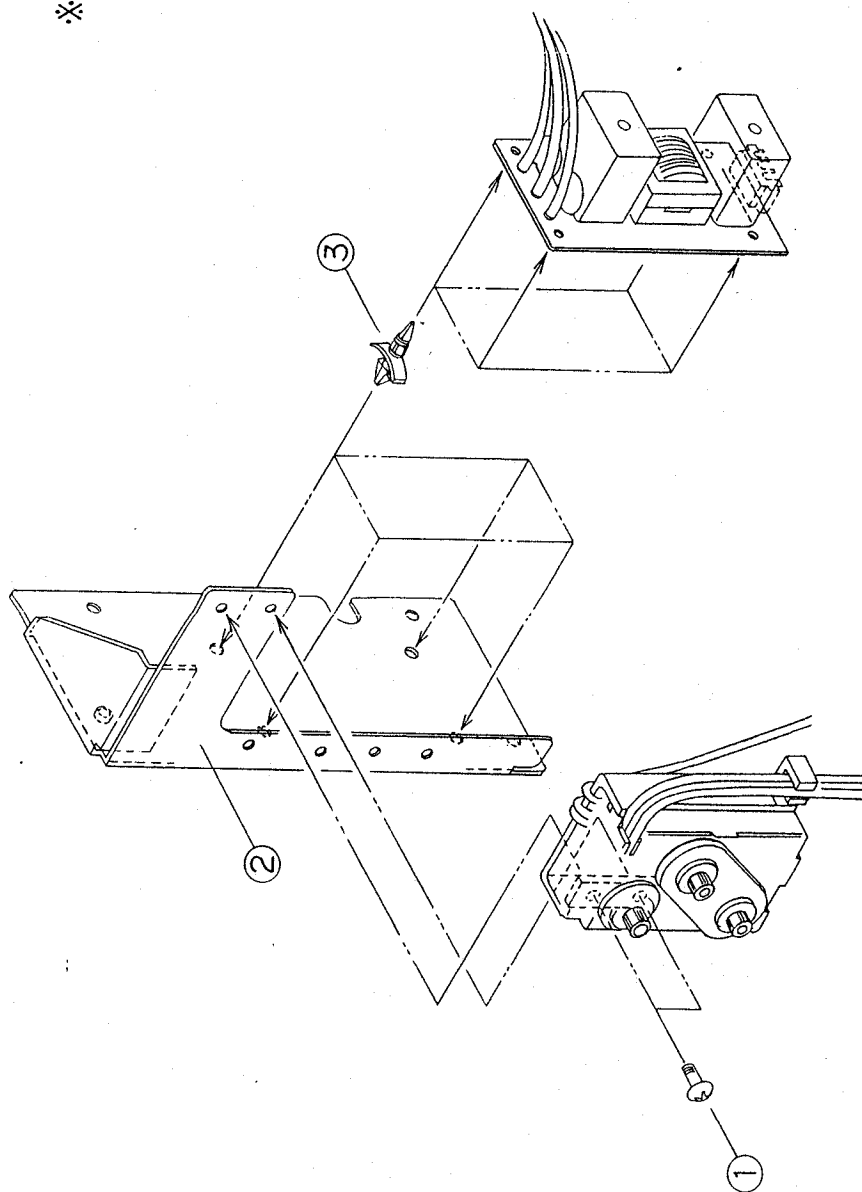
INTERFACE BLOCK ASS'Y

IF PWB ASS'Y

UV-1095

|   |                     |
|---|---------------------|
| ① | 3x8 TAPPING SCREWS. |
| ② | HOLDER LF.          |
| ③ | LOCKING SUPPORT.    |

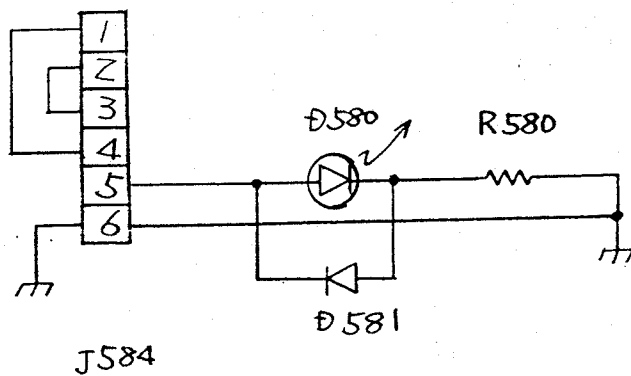
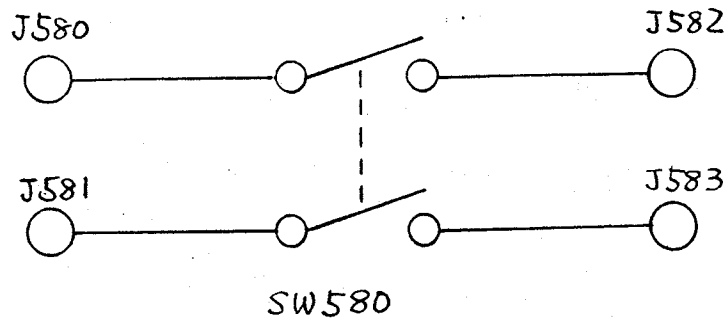
※ ①~③ NOT INCLUDED IN THIS ASS'Y.



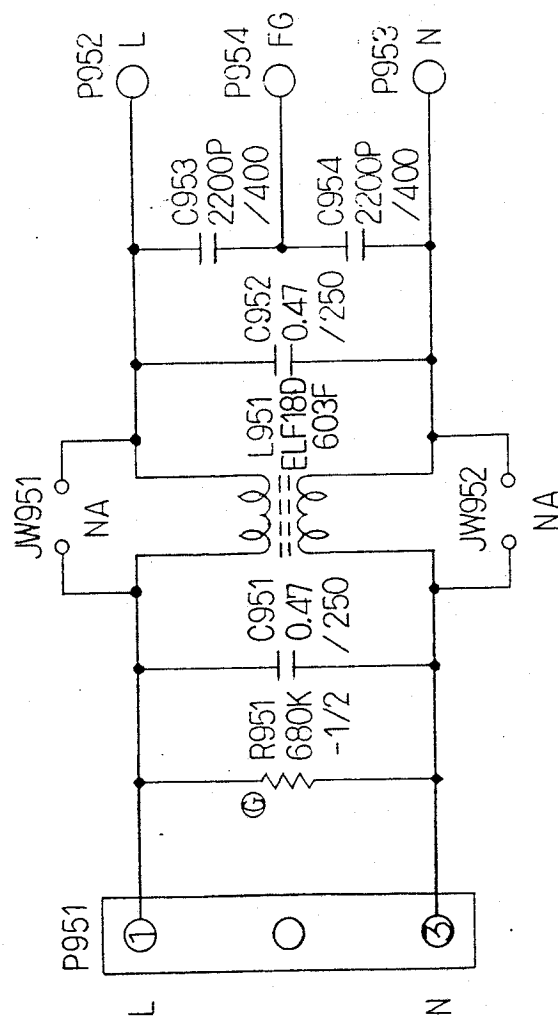
7S82046-40

LINE FILTER PWB ASS'Y

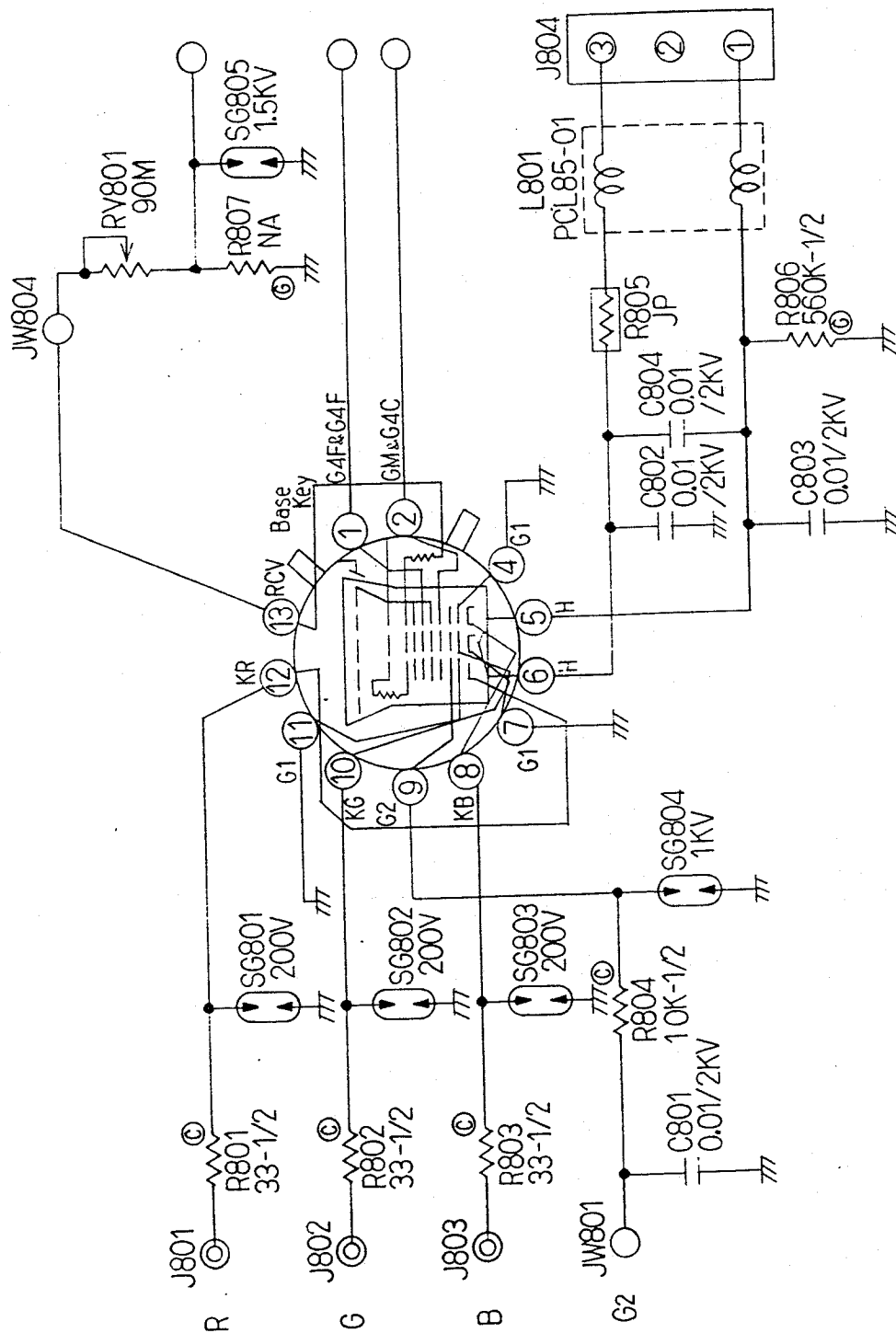
UV-1095



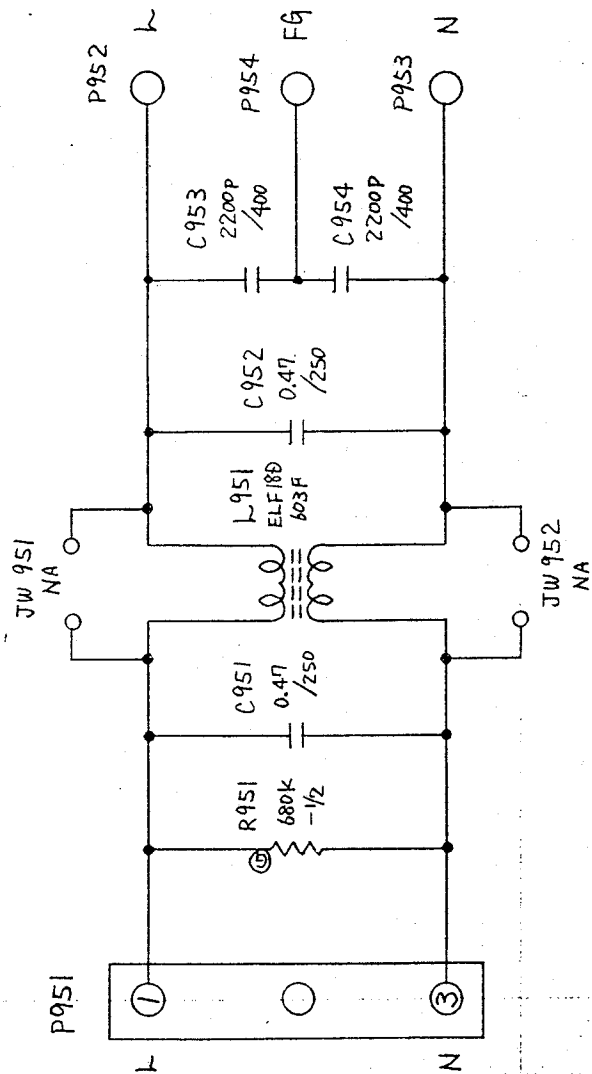
|   |       |         |        |    |      |                     |         |
|---|-------|---------|--------|----|------|---------------------|---------|
| ⑥ | 材質    | TAXAN   |        |    |      | 処理                  |         |
| ⑤ | 尺度    | 單位      | m<br>m | 個數 | 公差   | 年月日                 | UV-1095 |
| ④ | 米歴・摘要 |         |        |    |      |                     |         |
| ③ | 品名    | スイッチボード |        |    |      | 部品名                 | PB4 575 |
| ② | 設計    | 製図      | 検図     | 承認 | 図面番号 | PB4575-A00010-13-01 |         |
| ① | 変更年月日 | 変更事項    | 田中     | 田中 | 田中   | 田中                  |         |



|       |         |         |     |     |         |                     |         |  |
|-------|---------|---------|-----|-----|---------|---------------------|---------|--|
| △     | 材質      |         |     |     |         | 處理                  | TAXAN   |  |
| △     | 尺 寸     | 單位      | m   | 個 數 | 一般公差    | 年月日                 | 90.9.13 |  |
| △     | 來 歷・摘 要 | UV-1095 |     |     |         |                     |         |  |
| △     | 品 名     | FILTER  |     |     |         | 部 品 名               | 回路図     |  |
| △     | 設 計     | 製 図     | 検 図 | 承認  | 図 面 番 号 | UB4646-A00010-13-01 |         |  |
| 變更年月日 | 變 更 事 項 |         | 森泉  | 木林泉 | 代       | 村                   |         |  |



|       |  |           |  |            |  |                     |  |
|-------|--|-----------|--|------------|--|---------------------|--|
| △     |  | 材質        |  | 處理         |  | TAXAN               |  |
| △     |  | 尺 寸       |  | 單位         |  | 年 月 日               |  |
| △     |  | 單位        |  | 個 數        |  | UV-1095             |  |
| △     |  | 來 歷 · 摘 要 |  | 一 般 公 認    |  |                     |  |
| △     |  | 品 名       |  | 部 品 名      |  |                     |  |
| △     |  | 設 計       |  | 製 圖        |  | 圖 面                 |  |
| △     |  | 飯 森       |  | 飯 森        |  | UB4591-A00010-13-01 |  |
| 變更年月日 |  | 變 更 事 項   |  | 承認         |  | 番 號                 |  |
|       |  |           |  | 東京特殊電線株式会社 |  | SZ04215031A4        |  |



|       |       |        |    |   |    |      |         |          |
|-------|-------|--------|----|---|----|------|---------|----------|
| ⑥     | 材     |        |    |   |    | 処    | TAXAN   |          |
| ⑤     | 尺     | 度      | 單位 | m | 個數 | 一般公差 | 年月日     | 1990.8.3 |
| ④     | 來歷・摘要 |        |    |   |    |      | UV-1095 |          |
| ③     | 品     | FILTER |    |   |    | 部    | PBQ 646 |          |
| ②     | 設     | 計      | 製  | 図 | 検  | 図    | 承認      |          |
| ①     |       |        |    |   |    |      | 図面番号    |          |
| 変更年月日 |       | 変更事項   |    |   |    |      |         |          |

