

トリニトロン®カラービデオモニター/Trinitron® Color Video Monitor

# PVM-5041Q/6041Q PVM-6041QM

## 取扱説明書

お買い上げいただき、ありがとうございます。



電気製品は安全のための注意事項を  
守らないと、火災や人身事故になる  
ことがあります。

この取扱説明書には、事故を防ぐための重要な注意事項と  
製品の取り扱いかたを示しています。この取扱説明書と別  
冊の「安全のために」をよくお読みのうえ、製品を安全にお  
使いください。お読みになったあとは、いつでも見られる  
ところに必ず保管してください。

## Operating Instructions

Before operating the unit, please read this manual  
thoroughly and retain it for future reference.

## Mode d'emploi

Avant la mise en service de cet appareil, prière de lire  
attentivement ce mode d'emploi et de le conserver pour  
toute référence ultérieure.

## Bedienungsanleitung

Vor Inbetriebnahme des Geräts lesen Sie bitte diese  
Anleitung aufmerksam durch und bewahren Sie sie zum  
späteren Nachschlagen gut auf.

## Manual de instrucciones

Antes de emplear la unidad, lea detenidamente este manual  
de instrucciones, y consérvelo para futuras referencias.

## Istruzioni per l'uso

Prima di usare l'apparecchio, leggere con attenzione questo  
manuale e conservarlo per riferimenti futuri.

## Owner's Record

The model and serial numbers are located on  
the rear.

Record the model and serial numbers in the  
spaces provided below. Refer to these numbers  
whenever you call upon your Sony dealer  
regarding this product.

Model No. \_\_\_\_\_ Serial No. \_\_\_\_\_

日本語

English

Français

Deutsch

Español

Italiano

# WARNING

**To prevent fire or shock hazard, do not expose the unit to rain or moisture.**

Dangerously high voltages are present inside the unit. Do not open the cabinet. Refer servicing to qualified personnel only.

This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

## For the Customers in the USA

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

## For the customers in Europe (PVM-6041QM)

This product with the CE marking complies with both the EMC Directive (89/336/EEC) and the Low Voltage Directive (73/23/EEC) issued by the Commission of the European Community.

Compliance with these directives implies conformity to the following European standards:

- EN60950: Product Safety
- EN55103-1: Electromagnetic Interference (Emission)
- EN55103-2: Electromagnetic Susceptibility (Immunity)

This product is intended for use in the following Electromagnetic Environment(s):

E1 (residential), E2 (commercial and light industrial), E3 (urban outdoors) and E4 (controlled EMC environment, ex. TV studio).

## Important Safety Instruction

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



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This instruction manual covers PVM-5041Q and PVM-6041QM.

# Features

English

## Four color systems available

The monitor can display NTSC<sub>3.58</sub>, PAL, SECAM and NTSC<sub>4.43</sub><sup>1)</sup> signals. The appropriate color system is selected automatically.

## Blue only picture

The picture can be displayed in blue and black only. This facilitates hue adjustment and the observation of video noise.

## Analog RGB/component input connectors

Analog RGB or component (Y, R-Y, and B-Y) signals from video equipment can be input through these connectors.

## Beam current feedback circuit

The built-in beam current feedback circuit assures stable white balance.

## Comb filter

When NTSC video signals are received, a comb filter activates to increase the resolution, resulting in fine picture detail without color spill or color noise.

## Under scan 4:3/16:9 selector<sup>2)</sup>

The monitor can display the 16:9 signal with the correct ratio of width and height, compressing the picture vertically. Selecting 16:9 with the UNDER SCAN 4:3/16:9 selector on the rear panel in the under scan mode, the ratio of the picture will change to 16:9.

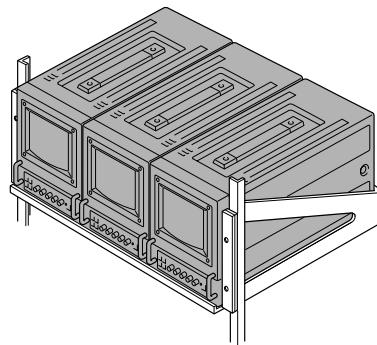
## Automatic termination

(only connector marked  $\sim\!\!\!$ )

The VIDEO IN connector is terminated at 75 ohms inside, when no cable is connected to the loop-through output connectors. When a cable is connected to an output connector, the 75-ohm termination is automatically released.

## EIA standard 19-inch rack mounting

By using an MB-520 mounting bracket (not supplied), the monitor can be mounted in an EIA standard 19-inch rack. For details on mounting, see the instruction manual of the MB-520.



- 1) An NTSC<sub>4.43</sub> signal is used for playing back NTSC-recorded video cassettes with a video tape recorder/player especially designed for use with this system.
- 2) The UNDER SCAN 4:3/16:9 selector has been adopted since the serial No. 2500001 product.

# Precautions

## On safety

- Operate the unit on 100 – 240 V AC (for PVM-6041QM), 120 V AC (for PVM-5041Q) or 12 V DC. For the AC operation, use only the supplied AC power cord or the AC power adaptor recommended (not supplied). Do not use any other type. For the battery operation, use only the NP-1A/1B battery pack (not supplied). Do not use any other batteries.
- Should any liquid or solid object fall into the cabinet, unplug the unit and have it checked by qualified personnel before operating it further.
- Unplug the unit from the wall outlet if it is not to be used for several days.
- To disconnect the AC power cord, pull it out by the plug. Never pull the cord itself.

## On installation

- Allow adequate air circulation to prevent internal heat build-up. Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation holes.
- Do not install the unit near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.

- Keep the unit away from a loudspeaker or motor, as the picture may be affected.
- If you mount the monitor in a rack or shelf, devices around the monitor may prevent adequate air circulation, raising the operating temperature and possibly causing malfunction or overheating. Take care to leave adequate clearance around the monitor and not to block the ventilation holes. Or install a ventilation fan to keep the operating temperature range between 0°C and 35°C.

## On cleaning

Clean the unit with a slightly dampened soft cloth. Use a mild household detergent. Never use strong solvents such as thinner or benzine as they might damage the finish of the cabinet.

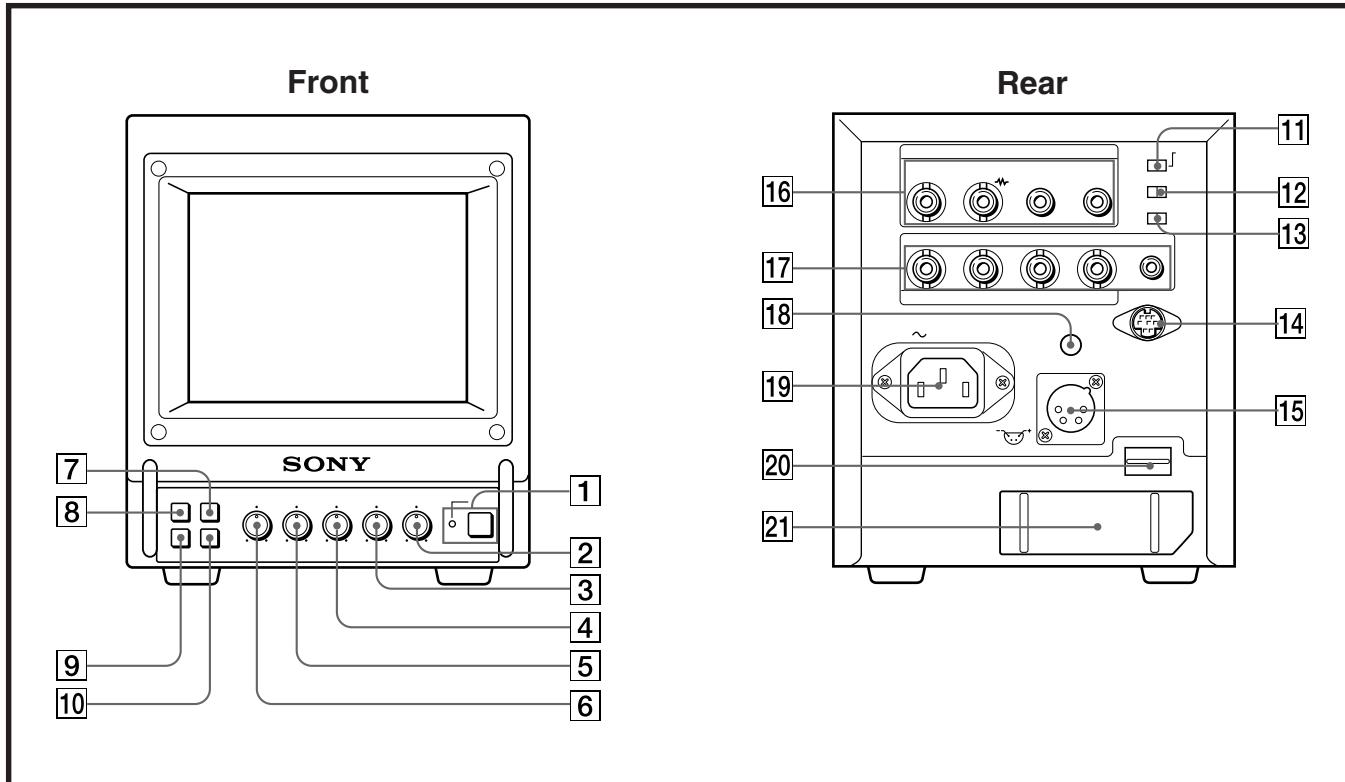
As a safety precaution, unplug the unit before cleaning it.

## On repacking

Retain the original carton and packing materials for safe transport of this unit in the future.

If you have any questions about this unit, contact your authorized Sony dealer.

# Location and Function of Parts and Controls



## 1 POWER switch and indicator

Depress to turn the monitor on. The indicator will light up in green.

The POWER indicator also functions as the battery indicator. When the internal battery becomes weak or the power supplied through the DC12V IN jack decreases, the indicator flashes.

## 2 VOLUME control

Turn this control clockwise or counterclockwise to obtain the desired volume.

## 3 CONTR (contrast) control

Turn clockwise to make the contrast stronger and counterclockwise to make it weaker.

## 4 PHASE control

Turn clockwise to make the skin tones greenish and counterclockwise to make them purplish.

## 5 CHROMA control

Turn clockwise to make the color intensity stronger and counterclockwise to make it weaker.

### Note

- The PHASE and CHROMA control settings have no effect on an analog RGB signal.
- The PHASE control has no effect on component signals.
- The PHASE control setting is effective only for the NTSC system.

## 6 BRIGHT (brightness) control

Turn clockwise for more brightness and counterclockwise for less.

## 7 H/V DELAY selector

Depress this button to observe the horizontal and vertical sync signals at the same time. The horizontal sync signal is displayed in the left quarter of the screen; the vertical sync signal is displayed near the center of the screen.

## 8 LINE/RGB input selector

Select the program to be monitored. Keep this button released (LINE) for a signal fed through the LINE connectors. Depress this button (RGB) for a signal fed through the RGB/COMPONENT connectors.

## 9 BLUE ONLY selector

Depress this button to turn off the red and green signals. A blue signal is displayed as an apparent monochrome picture on the screen. This facilitates "chroma" and "phase" control adjustments and the observation of video noise.

## 10 UNDER SCAN selector

Depress this button for underscanning. The display size is reduced by approximately 3% so that four corners of the raster are visible.

With this button depressed, if the UNDER SCAN 4:3/16:9 selector on the rear panel is set to 16:9, the ratio of the picture changes to 16:9.

**[11] SYNC INT/EXT (sync internal/external) selector**

Select the internal or external sync.

**[12] RGB/COMP (RGB/component) selector**

Select the RGB or component (Y, R-Y and B-Y) signal. Keep the LINE/RGB input selector on the front panel depressed (RGB), otherwise the RGB/COMP selector does not function.

**[13] UNDER SCAN 4:3/16:9 selector**

Set to compress the picture vertically to monitor the 16:9 input signal with the correct ratio.

The function of the UNDER SCAN button on the front panel is changed by the position of this selector.

<b>UNDER SCAN button 4:3/16:9 selector</b>	<b>Not depressed (□)</b>	<b>Depressed (■)</b>
When the selector is set to 4:3	The 4:3 input signal is monitored with normal scanning.	The 4:3 input signal is monitored with underscanning.
When the selector is set to 16:9	The 4:3 input signal is monitored with normal scanning.	The 16:9 input signal is monitored with underscanning. (Compressed vertically)

The UNDER SCAN 4:3/16:9 selector has been adopted since the serial No. 2500001 product.

**[14] REMOTE connector (8-pin mini DIN)**

Connect to a remote controller. For the pin assignment of this connector, see "Specifications" on page 5.

**[15] DC 12V IN jack (XLR, 4 pin)**

Connect the Sony AC-500/500CE AC power adaptor (not supplied).

**[16] LINE connectors**

To monitor the signal fed through these connectors, keep the LINE/RGB selector on the front panel released (LINE).

**VIDEO IN (BNC):** Connect to the video output connector of a video camera, VCR or other video equipment.

**VIDEO OUT (BNC):** Loop-through output of the VIDEO IN connector. Connect to the video input connector of a VCR or another monitor.

**AUDIO IN (phono jack):** Connect to the audio output connector of a VCR or a microphone (through a suitable microphone amplifier).

**AUDIO OUT (phono jack):** Loop-through output of the AUDIO IN connector. Connect to the audio input connector of a VCR or another monitor.

**[17] RGB/COMPONENT input connectors****R/R-Y, G/Y, B/B-Y, (BNC), AUDIO (phono):**

To monitor a signal fed through these connectors, depress the LINE/RGB selector on the front panel (RGB).

**To monitor the analog RGB signal**

Connect to the analog RGB signal outputs connector of a video camera. Set the RGB/COMP selector to RGB.

**To monitor the component signal**

Connect to the R-Y/Y/B-Y component signal outputs connector of a Sony Betacam video camera. Set the RGB/COMP selector to COMP (component).

**SYNC (BNC):**

To operate the monitor on an external sync, connect the reference signal from a sync generator. Set the SYNC INT/EXT selector to EXT (external).

**[18] V HOLD (vertical hold) control**

Turn to stabilize the picture if it rolls vertically.

**[19] AC IN socket**

Connect the supplied AC power cord to this socket and to a wall outlet.

**[20] EJECT button**

Press the EJECT button upwards to remove the battery pack.

**[21] BATTERY compartment**

Insert the NP-1A/1B battery pack (not supplied).

# Power Sources

## House Current

Connect the supplied AC power cord to the AC IN socket and to a wall outlet.

When the AC power cord is plugged into the AC IN socket, the battery pack (if installed) or the AC power adaptor (if connected) is automatically disconnected.

### To connect an AC power cord securely with AC plug holders

1	2	3
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- 1 Remove the AC IN socket screws and then use them to attach AC plug holder A (supplied) to the AC IN socket.
- 2 Plug the power cord to the AC IN socket. Then, attach the supplied AC plug holder B on top of the AC power cord.
- 3 Slide AC plug holder B over the cord until it connects with AC plug holder A.

#### To remove the AC power cord

Pull out AC power holder B by squeezing the left and right sides.

## Rechargeable Battery

**To remove the battery pack**, press the EJECT button upwards.

**For charging**, use the BC-1WA battery charger (not supplied) for the NP-1A or the BC-1WB for the NP-1B.

#### Note

Make sure that the AC power cord and the AC power adaptor are disconnected from the monitor. Otherwise, the monitor cannot operate on the battery pack.

# Specifications

English

## Video signal

Color system	NTSC <sup>3.58</sup> , PAL, SECAM, NTSC <sup>4.43</sup>
Resolution	250 TV lines
Frequency response	6.0 MHz (–3.0 dB) at all inputs
Synchronization	AFC time constant 1.0 msec.

## Picture performance

Normal scan	6% over scan of CRT effective screen area
Underscan	3% underscan of CRT effective screen area
H. linearity	Less than 7.0% (typical)
V. linearity	Less than 7.0% (typical)
Convergence	Central area: 0.50 mm (typical) Peripheral area: 0.60 mm (typical)
Raster size stability	H: 1.0%, V: 1.5%
High voltage regulation	3.0%
Color temperature	D65 (PVM-5041Q/6041QM) D93 (PVM-6041Q)

## Inputs and Outputs

Inputs	VIDEO IN: BNC connector 1 Vp-p ±6 dB, sync negative AUDIO IN: phono jack, –5 dBs, less than 47 kohms R/R-Y, G/Y, B/B-Y: BNC connector R, G, B channels: 0.7 Vp-p, ±6 dB Sync on green: 0.3 Vp-p, negative, 75 ohms terminated R-Y, Y, B-Y channels: <b>PVM-5041Q:</b> 0.7 Vp-p, ±6 dB (standard color bar signal of 75% chrominance) <b>PVM-6041QM:</b> 0.7 Vp-p, ±6 dB (standard color bar signal of 100% chrominance) EXT SYNC IN: BNC connector Composite sync 4 Vp-p, ±6 dB, negative
Loop-through outputs	VIDEO OUT: BNC connector, 75 ohms terminated AUDIO OUT: phono jack REMOTE: 8-pin mini DIN connector (See the pin assignment on the right side of this page)
Remote input	0.5 W
Audio Output level	

## General

Power consumption	<b>PVM-5041Q:</b> 42 W max at AC operation 40 W at DC operation <b>PVM-6041QM:</b> 40 W at AC operation 40 W at DC operation
Power requirements	<b>PVM-5041Q:</b> 120 V AC, 50/60 Hz <b>PVM-6041QM:</b> 100 – 240 V AC, 50/60 Hz 12 V DC, with the Sony (NP-1A/1B) battery pack (not supplied) or AC-500/500CE AC power adaptor (not supplied)
Peak inrush current (PVM-6041QM)	Hot switching inrush current, measured in accordance with European standard EN55103-1: 58A (230V)
Operating temperature range	0 – 35°C
Storage temperature range	–10 – +40°C
Humidity	0 – 90%
Dimensions	Approx. 146 × 173 × 352.5 mm (w/h/d) (5 <sup>3</sup> / <sub>4</sub> × 6 <sup>7</sup> / <sub>8</sub> × 14 inches) not incl. projecting parts and controls
Weight	Approx. 5.5 kg (12 lb 2 oz) not incl. battery packs
Accessory supplied	AC power cord (1) Cable with an 8-pin connector AC Plug holders (1 set)

## Pin Assignment

### REMOTE connector (8-pin mini DIN)

Pin No.	Signal
1	Blue only
2	H/V delay
3	GND
4	INT/EXT SYNC
5	–
6	Underscan/normal scan
7	RGB/Y, R-Y, B-Y
8	RGB/LINE

For remote control, connect the pin of the desired function to pin 3 (GND).

Design and specifications are subject to change without notice.

お問い合わせは  
「ソニー業務用製品ご相談窓口のご案内」にある窓口へ

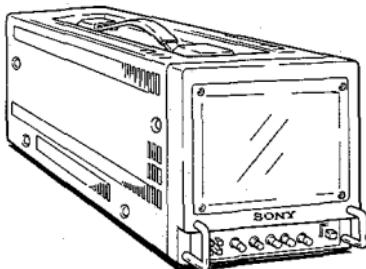
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ソニーマーケティング株式会社 情報システム営業本部 〒108-0074 東京都港区高輪4-10-18

# PVM-6041QM

## SERVICE MANUAL

AEP Model

Chassis No. SCC-F09D-A



### SPECIFICATIONS

#### Video signal

Color system	PAL, SECAM, NTSC3.58, NTSC4.43
Resolution	250 TV lines
Frequency response	6.0 MHz (-3.0 dB) at all inputs
Synchronization	AFC time constant 1.0 msec.

#### Picture performance

Normal scan	6% over scan of CRT effective screen area
Underscan	3% underscan of CRT effective screen area
H. linearity	Less than 7.0% (typical)
V. linearity	Less than 7.0% (typical)
Convergence	Central area: 0.50 mm (typical) Peripheral area: 0.60 mm (typical)
Raster size stability	H: 1.0%, V: 1.5%
High voltage regulation	3.0%
Color temperature	D65

#### Inputs and Outputs

Inputs	VIDEO IN: BNC connector 1 Vp-p ±6 dB, sync negative AUDIO IN: phone jack, -5 dBs, less than 47 kohms
	R/R-Y, G/Y, B/B-Y: BNC connector R, G, B channels: 0.7 Vp-p, ±6 dB Sync on green: 0.3 Vp-p, negative, 75 ohms terminated
	R-Y, Y, B-Y channels: 0.7 Vp-p, ±6 dB (standard color bar signal of 100% chrominance)

EXT SYNC IN: BNC connector  
Composite sync 4 Vp-p, ±6 dB, negative

#### Loop-through outputs

VIDEO OUT: BNC connector,

75 ohms terminated

AUDIO OUT: phone jack

REMOTE: 8-pin mini DIN connector (See the pin assignment on the right side of this page)

Audio Output level 0.5 W

#### General

Power consumption	40 W at AC operation 40 W at DC operation
Power requirements	100 - 240 V AC, 50/60 Hz 12 V DC, with the Sony (NP-1A/1B) battery pack (not supplied) or AC-500/500CE AC power adaptor (not supplied)

Operating temperature range  
0 - 35°C

Storage temperature range  
-10 - +40°C

Humidity 0 - 90%

- Continued on next page -

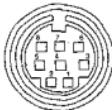
TRINITRON® COLOR VIDEO MONITOR  
**SONY**®



Dimensions	Approx. 146 x 173 x 352.5 mm (w/h/d) (5 1/2 x 6 1/2 x 14 inches) not incl. projecting parts and controls
Weight	Approx. 5.5 kg (12 lb 2 oz) not incl. battery packs
Accessory supplied	AC power cord (1) Cable with an 8-pin connector AC Plug holders (1 set)

#### Pin Assignment

REMOTE connector (8-pin mini DIN)



Pin No.	Signal
1	Blue only
2	H/V delay
3	GND
4	INT/EXT SYNC
5	-
6	Underscan/normal scan
7	RGB/Y R-Y B-Y
8	RGB/LINE

For remote control, connect the pin of the desired function to pin 3 (GND).

Design and specifications are subject to change without notice.

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## (CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

## WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

## SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK  $\Delta$  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

## SECTION 1

### GENERAL

#### 1-1. FEATURES

##### **Four color systems available**

The monitor can display PAL, SECAM, NTSC<sub>525</sub> and NTSC<sub>443</sub> signals. The appropriate color system is selected automatically.

- \* A signal of NTSC<sub>443</sub> is used for playing back NTSC recorded video cassettes with a video tape recorder/player especially designed for use with this system.

##### **Blue only picture**

The picture can be displayed in blue and black only. This facilitates hue adjustment and the observation of video noise.

##### **Analog RGB/component input connectors**

Analog RGB or component (Y, R-Y, and B-Y) signals from video equipment can be input through these connectors.

##### **Beam current feedback circuit**

The built-in beam current feedback circuit assures stable white balance.

##### **Comb filter**

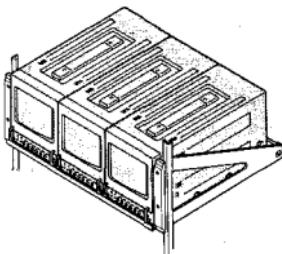
When NTSC video signals are received, a comb filter activates to increase the resolution, resulting in fine picture detail without color spill or color noise.

##### **Automatic termination of BNC connectors**

The rear BNC input connectors are internally terminated 75 ohms when nothing is connected to the output connector (VIDEO OUT). However, this impedance limit is automatically removed when a cable is plugged into the output connector, and the signal is looped-through as it is.

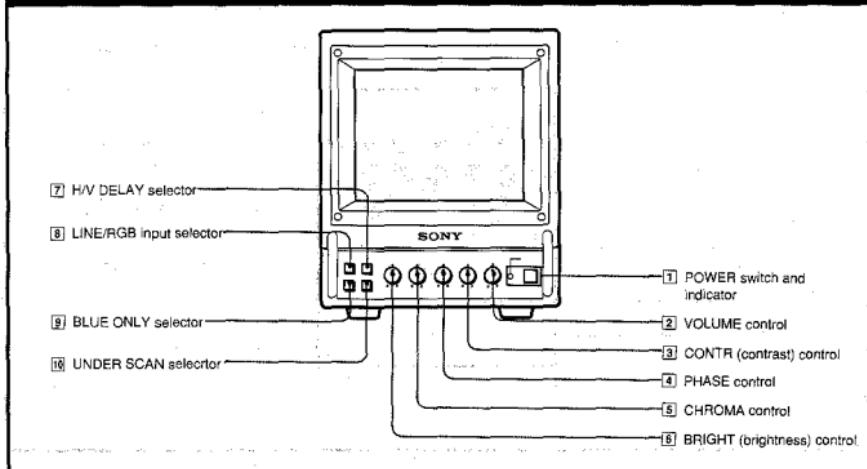
##### **EIA standard 19-inch rack mounting**

By using an MB-507 mounting bracket (not supplied), the monitor can be mounted in an EIA standard 19-inch rack. For details on mounting, see the instruction manual of the MB-507.



## 1-2. LOCATION AND FUNCTION OF PARTS AND CONTROLS

## Front

**[1] POWER switch and Indicator**

Depress to turn the monitor on. The indicator will light up in green.

The POWER Indicator also functions as the battery indicator. When the internal battery becomes weak or the power supplied through the DC12V IN jack decreases, the indicator flashes.

**[2] VOLUME control**

Turn this control clockwise or counterclockwise to obtain the desired volume.

**[3] CONTR (contrast) control**

Turn clockwise to make the contrast stronger and counterclockwise to make it weaker.

**[4] PHASE control**

Turn clockwise to make the skin tones greenish and counterclockwise to make them purplish.

**[5] CHROMA control**

Turn clockwise to make the color intensity stronger and counterclockwise to make it weaker.

**Note**

- The PHASE and CHROMA control settings have no effect on an analog RGB signal.
- The PHASE control has no effect on component signals.
- The PHASE control setting is effective only for the NTSC system.

**[6] BRIGHT (brightness) control**

Turn clockwise for more brightness and counterclockwise for less.

**[7] H/V DELAY selector**

Depress this button to observe the horizontal and vertical sync signals at the same time. The horizontal sync signal is displayed in the left quarter of the screen; the vertical sync signal is displayed near the center of the screen.

**[8] LINE/RGB Input selector**

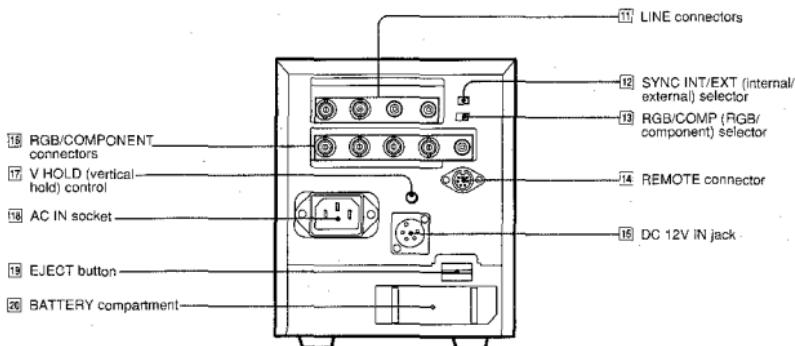
Select the program to be monitored. Keep this button released (LINE) for a signal fed through the LINE connectors. Depress this button (RGB) for a signal fed through the RGB/COMPONENT connectors.

**[9] BLUE ONLY selector**

Depress this button to turn off the red and green signals. A blue signal is displayed as an apparent monochrome picture on the screen. This facilitates "chroma" and "phase" control adjustments and the observation of video noise.

**[10] UNDER SCAN selector**

Depress this button for underscanning. The display size is reduced by approximately 3% so that four corners of the raster are visible.

**Rear****⑪ LINE connectors**

To monitor the signal fed through these connectors, keep the LINE/RGB selector on the front panel released (LINE).

**VIDEO IN (BNC):** Connect to the video output of a video camera, VCR or other video equipment.

**VIDEO OUT (BNC):** Loop-through output of the VIDEO IN connector. Connect to the video input of a VCR or another monitor.

**AUDIO IN (phono jack):** Connect to the audio output of a VCR or a microphone (through a suitable microphone amplifier).

**AUDIO OUT (phono jack):** Loop-through output of the AUDIO IN connector. Connect to the audio input of a VCR or another monitor.

**⑫ SYNC INT/EXT (sync internal/external) selector**

Select the internal or external sync.

**⑬ RGB/COMP (RGB/component) selector**

Select the RGB or component (Y, R-Y and B-Y) signal. Keep the LINE/RGB input selector on the front panel depressed (RGB), otherwise the RGB/COMP selector does not function.

**⑭ REMOTE connector (8-pin mini DIN)**

Connect to a remote controller. For the pin assignment of this connector, see "Specifications" on page 5.

**⑮ DC 12V IN jack (XLR, 4 pin)**

Connect the Sony AC-500/500CE AC power adaptor (not supplied).

**⑯ RGB/COMPONENT input connectors**

R/R-Y, G/Y, B/B-Y, (BNC), AUDIO (phono):

To monitor a signal fed through these connectors, depress the LINE/RGB selector on the front panel (RGB).

**To monitor the analog RGB signal**

Connect to the analog RGB signal outputs of a video camera. Set the RGB/COMP selector to RGB.

**To monitor the component signal**

Connect to the R-Y/Y-B-Y component signal outputs of a Sony Betacam video camera. Set the RGB/COMP selector to COMP (component).

**SYNC (BNC):**

To operate the monitor on an external sync, connect the reference signal from a sync generator. Set the SYNC INT/EXT selector to EXT (external).

**⑰ V HOLD (vertical hold) control**

Turn to stabilize the picture if it rolls vertically.

**⑲ AC IN socket**

Connect the supplied AC power cord to this socket and to a wall outlet.

**⑳ EJECT button**

Press the EJECT button upwards to remove the battery pack.

**㉑ BATTERY compartment**

Insert the NP-1A/1B battery pack (not supplied).

### 1-3. POWER SOURCES

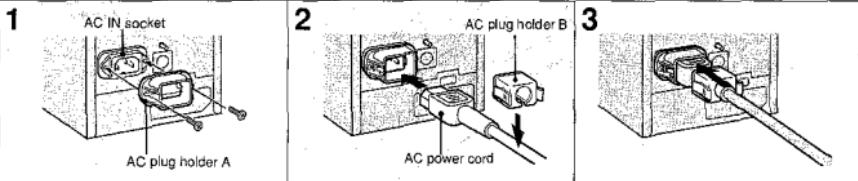
#### House Current

Connect the supplied AC power cord to the AC IN socket and to a wall outlet.



When the AC power cord is plugged into the AC IN socket, the battery pack (if installed) or the AC power adaptor (if connected) is automatically disconnected.

#### To connect an AC power cord securely with AC plug holders

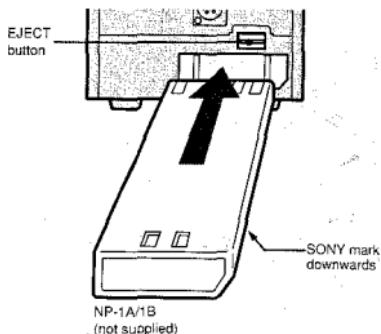


- 1 Remove the AC IN socket screws and then use them to attach AC plug holder A (supplied) to the AC IN socket.
- 2 Plug the power cord to the AC IN socket. Then, attach the supplied AC plug holder B on top of the AC power cord.
- 3 Slide AC plug holder B over the cord until it connects with AC plug holder A.

#### To remove the AC power cord

Pull out AC plug holder B by squeezing the left and right sides.

#### Rechargeable Battery



To remove the battery pack, press the EJECT button upwards.

For charging, use the BC-1WA battery charger (not supplied) for the NP-1A or the BC-1WB for the NP-1B.

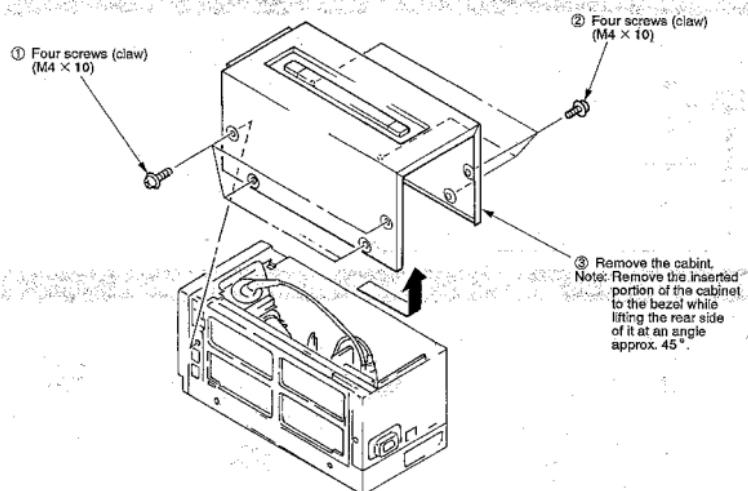
#### Note

Make sure that the AC power cord and the AC power adaptor are disconnected from the monitor. Otherwise, the monitor cannot operate on the battery pack.

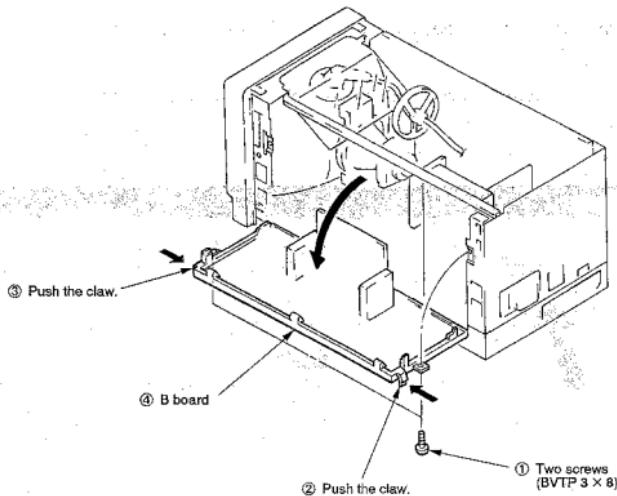
## SECTION 2

### DISASSEMBLY

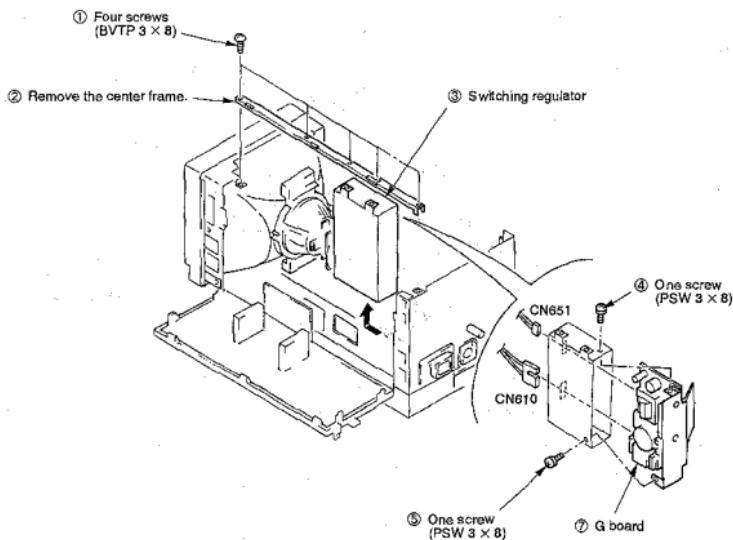
#### 2-1. CABINET REMOVAL



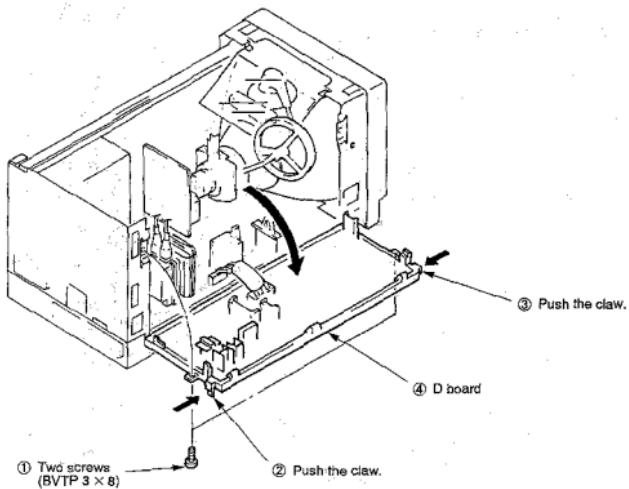
#### 2-2. B BOARD REMOVAL



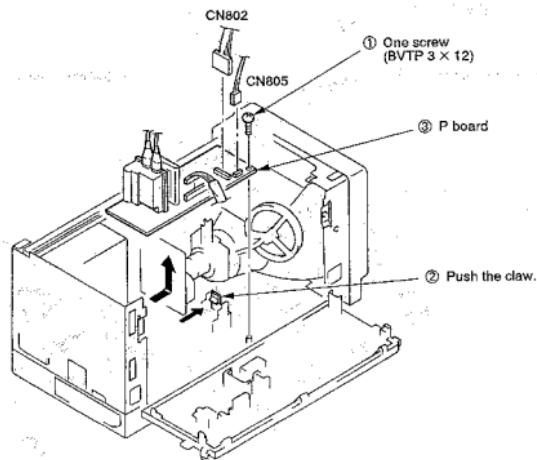
## 2-3. SWITCHING REGULATOR REMOVAL



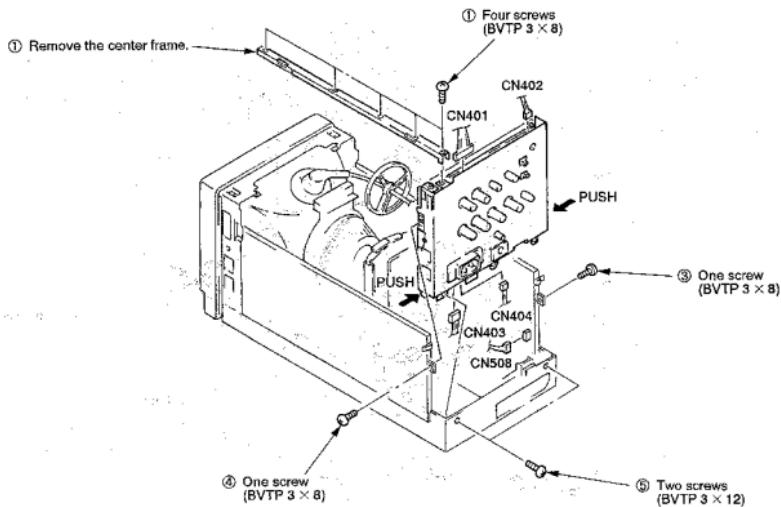
## 2-4. D BOARD REMOVAL

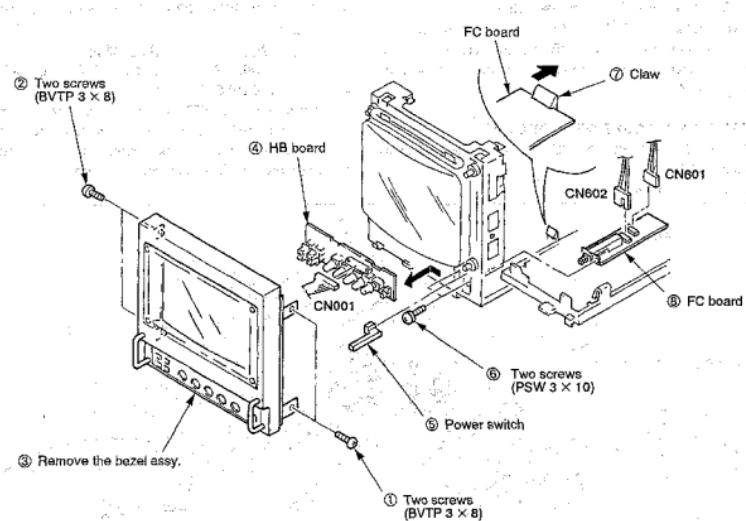


## 2-5. P BOARD REMOVAL



## 2-6. REAR ASSY REMOVAL



**2-7. HB AND FC BOARDS REMOVAL**

## 2-8. PICTURE TUBE REMOVAL

### Note : Caution for ANODE CAP installation.

When you replace PICTURE TUBE or FBT, remove RTV on ANODE CAP so that PICTURE TUBE and FBT can be separated. Please adhere picture tube and anode cap in accordance with the following procedure.

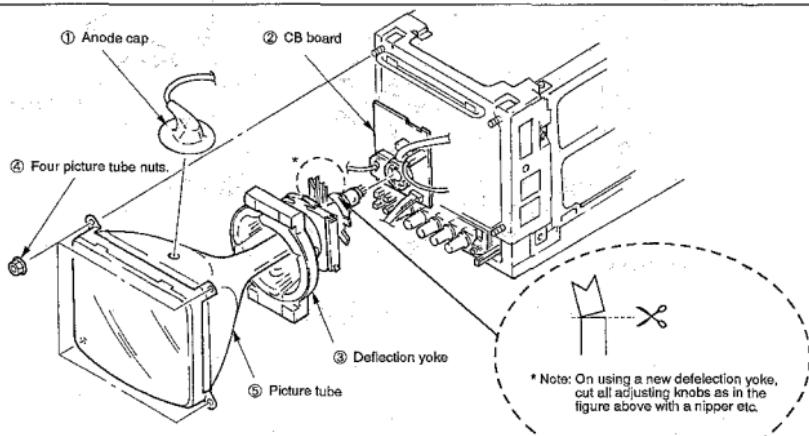
### ADHERING PROCEDURE OF ANODE CAP.

- Clean PICTURE-TUBE ANODE CAP with ethnaol to remove original RTV.
- Dry clean face with air.

- Use KE-490RTV (RTV silicone adhesive, SHIN-ETSU CHEMICAL).

<b>Part No.</b>	<b>Description</b>
7-322-065-19	Silicone (RTV) KE-490W

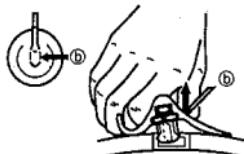
- Install ANODE CAP.
- Adequately apply RTV to the entire picture tube anode area, place the anode cap onto the picture tube and push it down securely so that no air pockets remain beneath the cap.
- Dry more than 12 hours at room temperature.



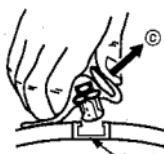
- REMOVAL OF ANODE-CAP**
- REMOVING PROCEDURES**



- ① Turn up one side of the rubber cap in the direction indicated by the arrow ④.



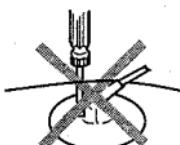
- ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⑥.



- ③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ⑦.

### HOW TO HANDLE AN ANODE-CAP

- Don't hurt the surface of anode-caps with sharp shaped material!
- Don't press the rubber hardly not to hurt inside of anode-caps! A metal fitting called as shatter-hook terminal is built in the rubber.
- Don't turn the foot of rubber over hardly!



## SECTION 3

### SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

The control and switch below should be set as follows unless otherwise noted:

CONTRAST control .....	80%
BRIGHTNESS control .....	.50%

Perform the adjustments in order as follows:

- 3-1. Beam Landing
- 3-2. Convergence
- 3-3. Focus
- 3-4. White Balance

**Note:** Test equipment Required.

1. Color Bar/Pattern Generator
2. Degausser
3. Color Analyzer (Minolta)
4. Luminance Level Meter

#### 3-1. BEAM LANDING

##### Precaution

- Set the side of the unit with the PICTURE TUBE so that it faces east or west in order to reduce the influence of external magnetic force.
- Turn the power switch for the unit ON and erase the magnetic force using a degausser.

##### (1) Beam Landing

- Receive an entirely white signal with the pattern generator.  
CONTRAST ..... MAX.  
BRIGHTNESS ..... set easy to observe
- Adjust the white balance, G2 voltage and convergence roughly.
- Loosen the deflection yoke mounting screw, and set the purity control to the center as shown in Fig.3-1.
- Switch over the pattern generator to green.
- Move the deflection yoke backward, and adjust with the purity control so that green is in the center and blue and red are at the sides, evenly. (Fig.3-2)
- Move the deflection yoke forward, and adjust so that the entire screen becomes green. Repeat 5 to 7 as to red and blue.
- When landing at the corners is not right, correct by using the magnet. (Fig.3-3)
- When the position of the deflection yoke is determined, tighten it with a deflection yoke mounting screw.

**CAUTION: When correction magnet is used, be sure to degauss the unit.**

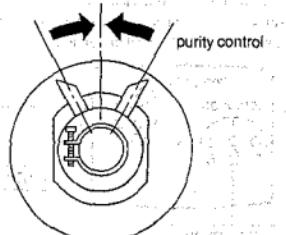
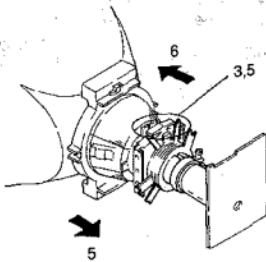


Fig.3-1



Fig.3-2

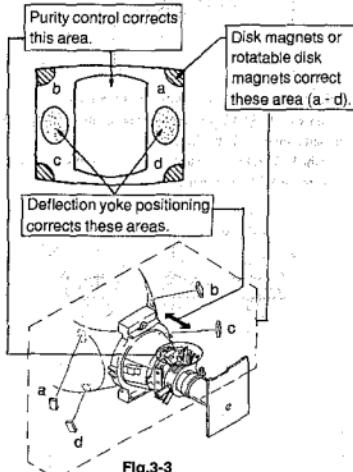


Fig.3-3

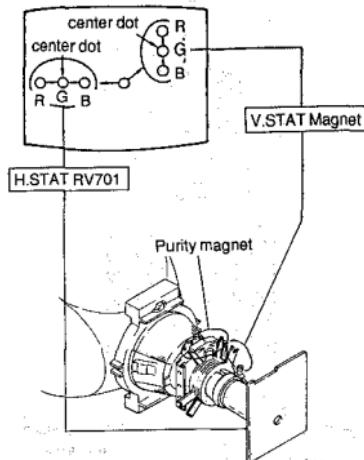
### 3-2. CONVERGENCE

#### (1) Horizontal and vertical Static Convergence Adjustment on the Center of Screen.

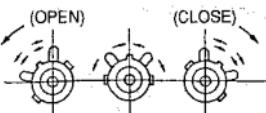
- Before starting, perform V.SIZE, V.CENT, H.SIZE, H.CENT, and Screen Distortion Adjustment rightly.

##### (Static Convergence Adjustment)

- Receive a dot signal, setting BRIGHTNESS minimum and set CONTRAST to normal.
- Adjust H.STAT VR to coincide red, green and blue dots on the center of screen. (Horizontal movement)
- Adjust V.STAT magnet to coincide red, green and blue dots on the center of screen. (Vertical movement)

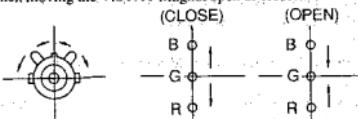


- If the red, green and blue dots do not coincide on the center of screen with H.STAT VR, perform adjustment using V.STAT at the same time while tracking.  
(Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.)

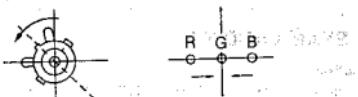


4. When the V.STAT magnet is moved in the direction of arrow A and b, red, green and blue dots move as shown below.

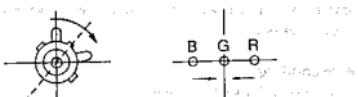
- ① When moving the V.STAT Magnet open or close.



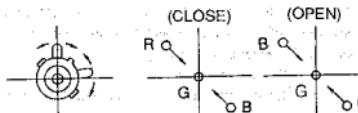
- ② When moving the V.STAT magnet counterclockwise.



- ③ When moving the V.STAT magnet clockwise.



- ④ When tilt the V.STAT magnet and open or close.

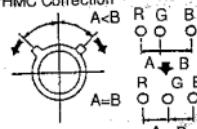


- If the red and green dots do not coincide with blue dot, adjustment with BMC (6-poles) magnet.

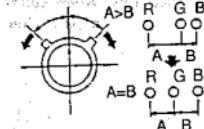
5. HMC and VMC correction for BMC (6-Poles) magnet.

- ① HMC (Horizontal Misconvergence) correction and motion of the Electron Beam with the BMC (6-poles) magnet.

##### HMC Correction



##### HMC Correction



- ② VMC (Vertical Misconvergence) correction and motion of the Electron Beam with the BMC (6-poles) magnet.

VMC Correction (A)



VMC Correction (B)

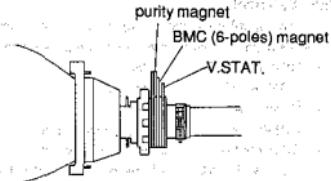


$C < D$      $C = D$

$C$  [ O R    C [ O R  
D [ G \*    C [ O G  
D [ O B    D [ O B

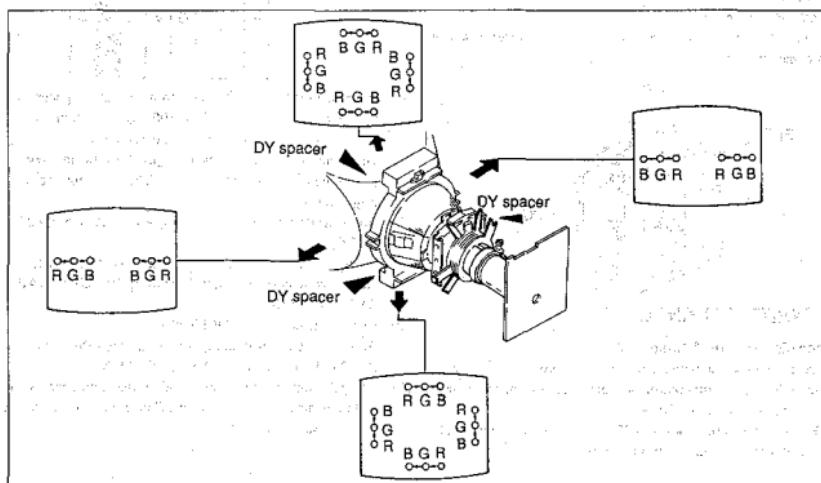
$C > D$      $C = D$

$C$  [ O R    C [ O R  
D [ G \*    C [ O G  
D [ O B    D [ O B

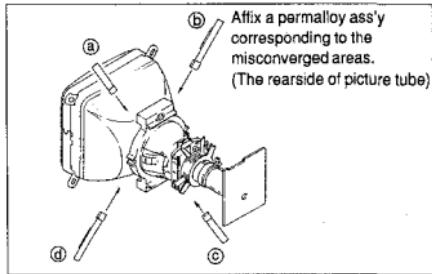
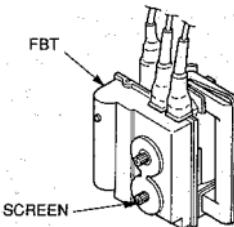
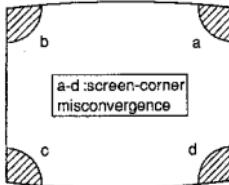


**(2) Horizontal and Vertical Dynamic Convergence Adjustment at the Environs of the Screen (Dynamic Convergence Adjustment)**

- When there is misconvergence at the sides of screen, adjust for best convergence as follows by moving the deflection yoke.
- Loosen deflection yoke screw. Remove deflection yoke spacers. Move the deflection yoke for best convergence. Tighten the deflection yoke screw. Install three deflection yoke spacers.



## Screen-corner Convergence

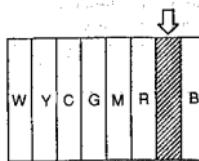


## [White Balance]

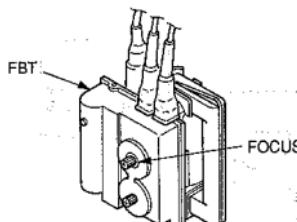
1. Receive a color-bar pattern signal with the pattern generator. (Make black and white screen by chroma switch off.)
2. • BRIGHTNESS ..... 50%  
• CONTRAST ..... Minimum  
• CHROMA ..... 50%  
• DRIVE control ..... Mechanical center  
• BKG control ..... Mechanical center
3. Adjust RV118 (SUB BRT) on B board so that the blue stripe portion on the color-bar pattern signal is bright dimly.

color-bar pattern

BLU



4. Receive an entirely white signal from the pattern generator.
5. CONTRAST ..... 70% (90 degree clockwise from mechanical center.)
6. Using the luminance level meter, adjust the luminance level of the pattern generator becomes 3 Nits. (The condition the screen is bright dimly.)
7. Adjust white balance at cut-off using RV119 (G-C/O) and RV121 (B-C/O).
8. Change the all-white signal luminance level to 100 IREs.
9. Adjust white balance at high-light using RV120 (G-GAIN) and RV121 (B-GAIN).
10. Change the unit to blue ONLY mode.
11. Adjust white balance (at high-light) in blue ONLY mode using RV124 \*R-GAIN/BL and RV125 (G-GAIN/BL).
12. Using the luminance level meter, adjust the luminance level of the pattern generator becomes 8 Nits. Confirm that white balance at cut-off is satisfactory.



## 3-4. WHITE BALANCE

## [Screen (G2) Voltage Adjustment]

1. Receive a dot signal with the pattern generator.
2. Adjust R. G. B cut-off controls so that respective cathode voltage against ground becomes 103V DC.
3. Observing the screen, adjust SCREEN control so that the background of the dot signal is bright dimly.

MEMO

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## SECTION 4

### SAFETY RELATED ADJUSTMENTS

#### 4-1. SAFETY RELATED ADJUSTMENTS

##### B+ ADJUSTMENT AND B+ MAX CHECK FOR SERVICING ( RV651 )

The following adjustments should always be performed when replacing the following components (marked with  on the schematic diagram).

- on G board : (Power supply block)  
IC601, IC651, PH601, C654, R653, R655, R656, R657, RV651.
- 1. Input the AC power supply voltage  $240V_{-0}^{+0.4}$  V.
- 2. Input the monoscope signal.
- 3. Set as follows.
  - CONTRAST ..... 80%
  - BRIGHTNESS ..... 50%
- 4. Connect the digital multimeter to RY1601 pin-⑦ on the D board.
- 5. Adjust RV651 on the G board so that the +B voltage becomes  $40.0 \pm 0.1$  V.
- 6. After adjusting RV651, fix it with an epoxy.
- 7. Input the AC power supply voltage  $240V_{-0}^{+0.4}$  V.
- 8. Input the dot signal.
- 9. Set as follows.
  - CONTRAST ..... Minimum
  - BRIGHTNESS ..... Minimum
- 10. Check that the B+ voltage is below 41.9V.  
If it is above this value, repeat from step 1.

##### B+ MAX IN DC POWER INPUT MODE, CONFIRMATION ( RV1603 )

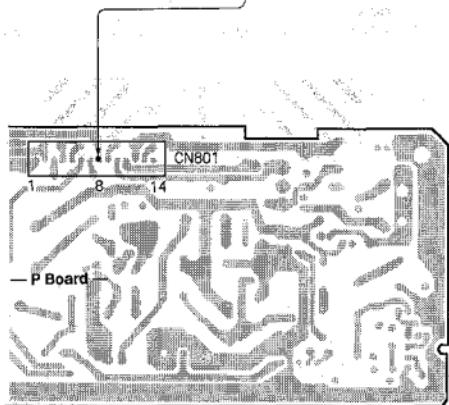
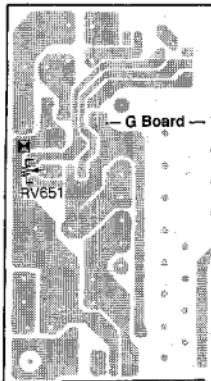
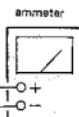
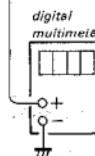
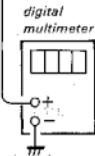
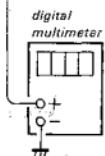
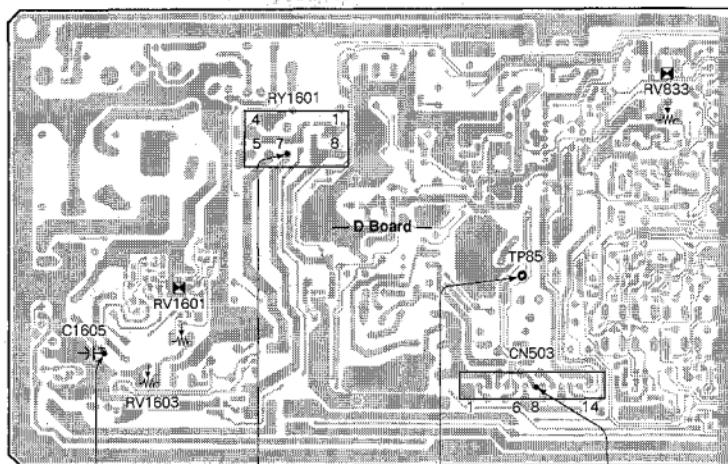
The following adjustments should always be performed when replacing the following components (marked with  on the schematic diagram).

- on D board :  
Q1601, Q1602, Q1603, D1601, D1602, D1603, D1604, D1605, C1601, C1602, R1601, R1602, R1603, R1604, R1605, R1606, R1607, R1608, R1629, R1628, R1630, RV1601, RV1603.
- 1. Supply DC  $12V_{-0}^{+0.4}$  V from DC 12V IN connector.
- 2. Receive a dot signal.
- 3. • CONTRAST ..... Minimum  
• BRIGHTNESS ..... Minimum
- 4. Connect a digital multimeter to C1605 positive + side of D board.
- 5. Turn RV1601 on the D board fully clockwise. Confirm that the voltage of C1605 + pin is less than 41.9V DC.
- 6. If step 5 is not satisfied, readjust the RV1603. After adjusting, fasten RV1603 in place with epoxy.

##### HOLD-DOWN CIRCUIT CONFIRMATION ( RV833) AND READJUSTMENTS

The following adjustments should always be performed when replacing the following components (marked with  on the schematic diagram).

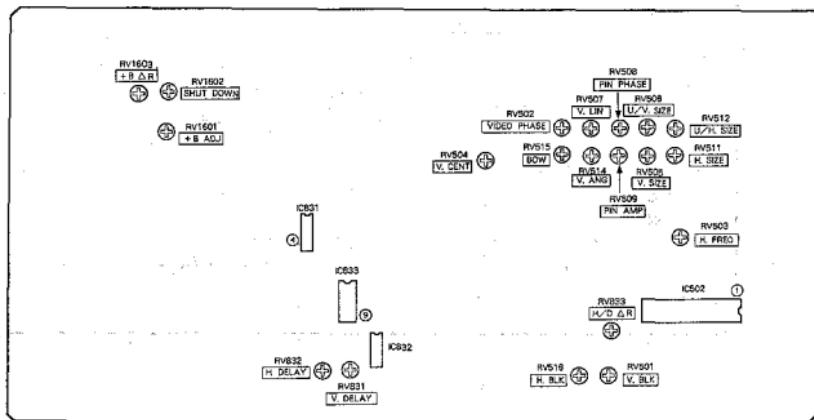
- on D board:  
IC502, Q833, Q834, Q835, Q836, D835, D836, C519, C843, C844, C845, C846, C847, C848, RV833, R523, R850, R851, R852, R853, R854, R855, R856, R857, R858, R859, R861, R862, R863.
- on P board:NL801, T802 (FBT), C814.
- 1. Receive an entire white signal.
- 2. • CONTRAST ..... Maximum  
• BRIGHTNESS ..... Maximum
- 3. Connect a digital multimeter to the TP85 (CN503 pin-⑥).
- 4. Confirm the voltage is  $14.1 \pm 3.0$  V DC.
- 5. Receive a dot signal.
- 6. Connect an ammeter between D board CN503 pin-⑧ and P board CN801 pin-⑧.
- 7. Adjust BRIGHTNESS and CONTRAST so that the current is  $IABL = 160 \pm 30 \mu A$ .
- 8. Apply an external DC voltage gradually to TP85. When the voltage becomes  $18.5V \pm 0.1$  V DC, confirm the HOLD-DOWN circuit operates immediately and raster disappears.
- 9. When external DC voltage at TP85 becomes  $17.5V \pm 0.1$  V DC, confirm the HOLD-DOWN circuit doesn't operate.
- 10. Receive an entire white signal.
- 11. Adjust with BRIGHTNESS and CONTRAST controls so that the current is  $IABL = 520 \pm 30 \mu A$ .
- 12. Apply DC voltage of  $17.8V \pm 0.1$  V to TP85. Confirm the HOLD-DOWN circuit operates immediately and raster disappears.
- 13. With the same set-up as steps 10 and 11, supply  $16.8V \pm 0.1$  V DC to TP85. Confirm that the HOLD-DOWN circuit doesn't operate.
- 14. When above specifications are not satisfied, readjust RV833.  
After adjusting, fasten RV833 in place with epoxy.



## SECTION 5 CIRCUIT ADJUSTMENTS

### 5-1. D BOARD ADJUSTMENTS

—D BOARD (COMPONENT SIDE)—



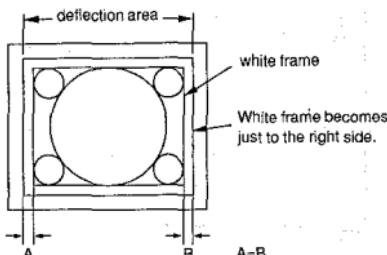
#### HORIZONTAL OSCILLATION FREQUENCY ADJUSTMENT (RV503)

1. Receive a monoscope signal.
2. Connect pin-① of IC502 to ground with  $100\mu\text{F}/16\text{V}$  electrolytic capacitor.
3. Adjust RV503 (H.FREQ) so that the screen streaming stops.



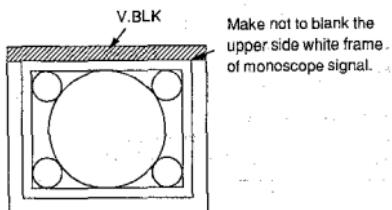
#### SCREEN PHASE ADJUSTMENTS (RV502, RV512, RV516)

1. Receive a monoscope signal.
2. Set U/S (Under Scan) switch to Under mode.
3. • CONTRAST ..... Minimum  
• BRIGHTNESS ..... Maximum.
4. Adjust RV512 (U/H. SIZE) so that the white frame of monoscope signal becomes visible.
5. Adjust RV516 (H.BLK) for minimum BLKG width so that all the deflection area becomes visible.
6. Adjust RV502 (VIDEO PHASE) so that the monoscope's white frames should have equal width.

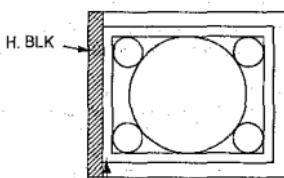


**H.V BLK ADJUSTMENTS (RV501, RV516)**

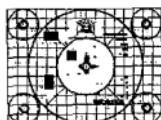
1. Receive a monoscope signal.
2. Set U/S (Under Scan) switch to Under mode.
3. • CONTRAST ..... Minimum  
• BRIGHTNESS ..... Maximum.
4. V. BLK Adjustment (RV501)
  - (I) Adjust RV501(V. BLK) so that the upper side white frame of monoscope signal is not blanked.

**5. H. BLK Adjustment (RV516)**

- (I) Adjust with RV516(H. BLK) so that the left end white vertical line of the white frame of monoscope signal is not blanked as following figure.

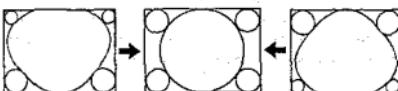
**VERTICAL DEFLECTION PART ADJUSTMENTS (RV504, RV505, RV506, RV507)**

1. Receive a monoscope signal.
2. • CONTRAST ..... 70%  
• BRIGHTNESS ..... 50%
3. Adjust RV505 (V. SIZE) so that the vertical size of monoscope signal becomes 12 frames.

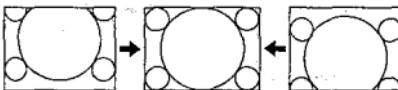


12 frames

4. Adjust RV507 (V.LIN) the vertical linearity.



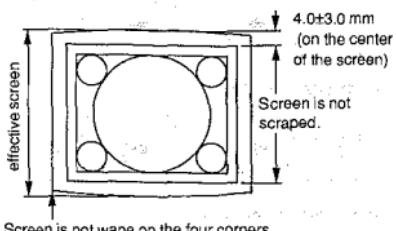
5. Adjust RV504 (V. CENT) the vertical position.

**6. V. SIZE ADJUSTMENT (RV505)**

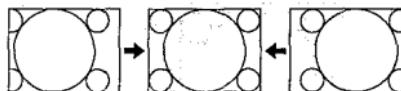
- (I) Adjust RV505 (V. SIZE) so that the vertical size of monoscope signal becomes  $11.75 \pm 0.2$  frames.

**7. V.SIZE IN UNDERSCAN MODE ADJUSTMENT (RV506)**

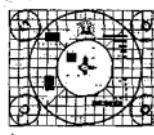
- (I) Set U/S (Under Scan) switch to Under mode.
- (2) Adjust the Under V.SIZE with RV506 (U/V. SIZE) as follows.

**HORIZONTAL DEFLECTION PART ADJUSTMENTS (RV508, RV509, RV511, RV514, RV515, RV801/P board)**

1. Receive a monoscope signal.
2. • CONTRAST ..... 70%  
• BRIGHTNESS ..... 50%
3. H. CENT Adjustment (RV801 on P board)
  - (I) Adjust RV801 on P board (H. CENT) the horizontal position.

**4. H. SIZE Adjustment (RV511)**

- (I) Adjust RV511 (H. SIZE) the horizontal size of 16 frames of monoscope signal.



16 frames

5. PIN AMP, PIN PHASE, V. ANG, BOW ADJUSTMENTS (RV509, RV509, RV514, RV515)

Adjust RV514 (V. ANG) and RV515 (BOW) to correct vertical angular distortion and bow distortion. Adjust RV509 (PIN AMP) and RV508 (PIN PHASE) so that vertical lines become straight.

- V. ANG (RV514)



- BOW (RV515)



- PIN AMP (RV509)



- PIN PHASE (RV508)

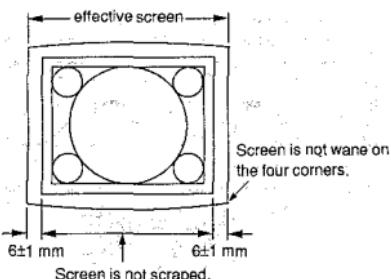


6. H. SIZE ADJUSTMENT (RV511)

- (1) Adjust RV511 (H. SIZE) so that the horizontal size becomes  $16 \pm 0.2$  frames.

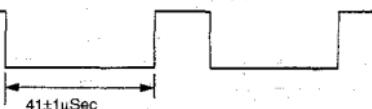
7. UNDERSCAN MODE H.SIZE ADJUSTMENT (RV512)

- (1) Set U/S (Under Scan) switch to Under mode.
- (2) Adjust RV512 (U/H. SIZE) the Under H. SIZE as shown in the figure.



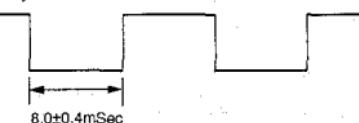
**H V DELAY ADJUSTMENT (RV831, RV832)**

1. Receive a monoscope signal.
2. • CONTRAST ..... 70%  
• BRIGHTNESS ..... 50%
3. Set H V DELAY switch to DELAY mode.
4. H. DELAY Adjustment (RV832)
  - (1) Connect an oscilloscope to pin-④ of IC831.
  - (2) Adjust RV832 (H. DELAY) to becomes  $41 \pm 1 \mu\text{sec}$ .



5. V. DELAY Adjustment (RV831)

- (1) Connect an oscilloscope to pin-⑨ of IC833.
- (2) Adjust RV831 to become  $8.0 \pm 0.4 \text{ msec}$  as follows.



**SHUT-DOWN VOLTAGE ADJUSTMENT (RV1602)**

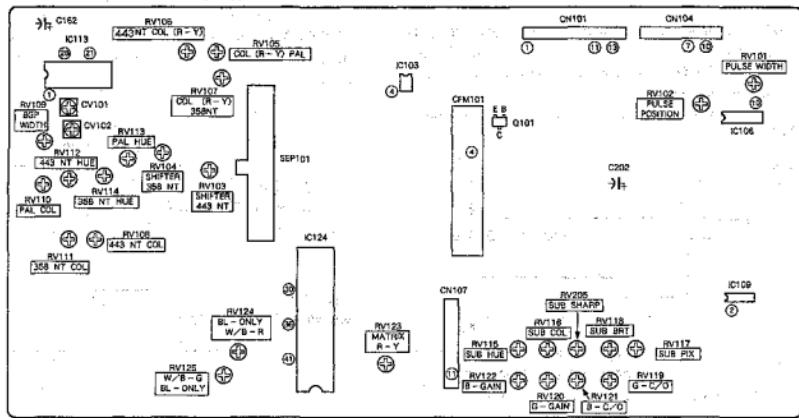
1. Fully rotate RV1602 in the direction that does not shut-down.
2. Supply a  $9.4V \pm 0.1V$  voltage to the C1602 side of L1602 on the D board.
3. Turn AC power switch ON.
4. Rotate D board RV1602 (SHT DOWN) slowly to the point that shuts-down the unit.

**B+ VOLTAGE DURING DC OPERATE MODE, ADJUSTMENT (RV1601)**

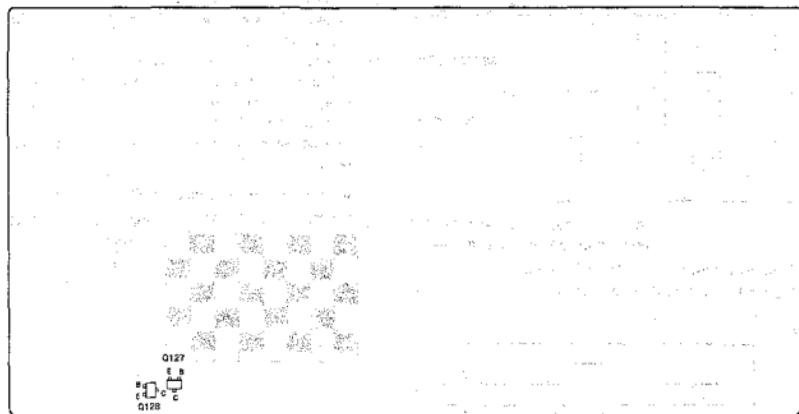
1. Supply  $\text{DC } 12V \pm 0.2V$  to DC 12V IN connector.
2. Receive a monoscope signal.
3. • CONTRAST ..... 80%  
• BRIGHTNESS ..... 50%
4. Connect a digital voltmeter to C1605 + positive side on D board.
5. Adjust RV1601 on the D board for  $40.0 \pm 0.1V$  DC.

## **5-2. BOARD ADJUSTMENTS**

**-B BOARD (COMPONENT SIDE)-**



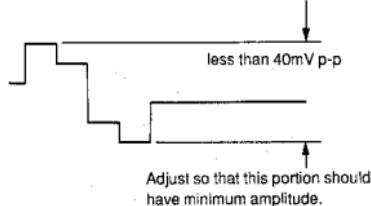
-B BOARD (CONDUCTOR SIDE)-



**PRIMARY COLOR MATRIX ADJUSTMENT  
(RV115, RV116, RV123)**

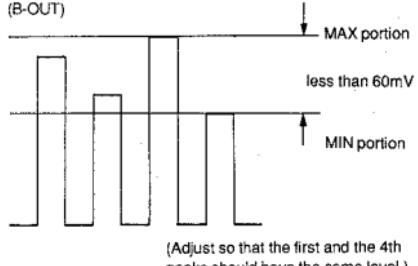
- Supply component color bar signal (75% chroma color bar) to the equipment so that Y signal is supplied to EXT SYNC and R-Y signal to R-Y connectors. Operate the equipment in external sync mode.
- Connect oscilloscope to IC124 pin-⑩ (B-OUT).
- Adjust RV115 (SUB HUE) to obtain the Blue output as shown in figure.

(B-OUT)



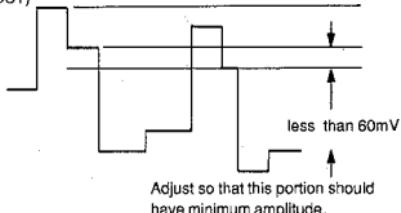
- Supply component color bar signal (75% color bar) to the component input connector to feed R-Y and B-Y signals. Operate the equipment in internal SYNC mode.
- Connect oscilloscope to IC124 pin-⑩ (SUB-COL). Adjust RV116 (SUB-COL) so that waveform peaks should have the same level.

(B-OUT)



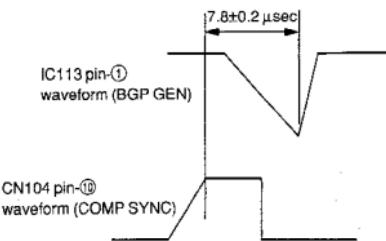
- Connect oscilloscope to IC124 pin-⑪ (R-OUT).
- Adjust RV123 ((R-Y)-IN) so that waveform peaks should have the same level.

(R-OUT)



**BURST GATE PULSE WIDTH ADJUSTMENT (RV109)**

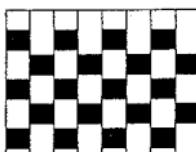
- Receive color bar signal.
- Connect dual trace oscilloscope to CN104 connector pin-⑩ (COMP-SYNC) and IC113 (M51279) pin-① (BGP-WIDTH). Adjust RV109 (BGP-WIDTH) to obtain the relationship as shown in the figure.



**VXO ADJUSTMENT (CV101,CV102)**

- 3.58MHz VXO adjustment (CV101)
  - Receive NTSC color bar signal.
  - Connect +5V power line to IC113 pin-⑫ (ID-FILT-REF) via a 4700Ω resistor.
  - Ground IC109 pin-② by connecting it to ground.
  - Ground C162 – negative side by connecting it to ground.
  - Connect frequency counter to IC113 pin-⑪. Adjust CV101 (358FO) for  $3579545\pm20$ Hz.  
(This adjustment can be alternatively done by observing screen as below.)

Adjust color synchronization by CV101 (358FO).

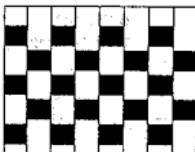


Adjust so that color stripes disappear and the hue change is stabilized extremely.

## 2. 4.43MHz VXO adjustment (CV102)

- (1) Receive PAL colour bar signal.
- (2) Connect +12V power line to IC109 pin-②.
- (3) Connect frequency counter to IC113 pin-②. Adjust CV102 (443FO) for  $4433619 \pm 20\text{Hz}$ .  
(This adjustment can be alternatively done by observing screen as below.)

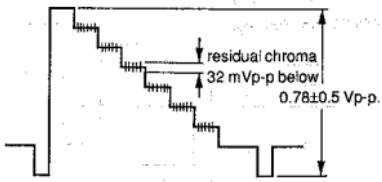
Adjust colour synchronization by CV102(443FO).



Adjust so that colour stripes disappear and the hue change is stabilized extremely.

NTSC COMB FILTER ADJUSTMENT  
(RV1,T1/CFM101 BOARD)

1. Receive NTSC 3.58 color bar signal.
2. Connect an oscilloscope to C202 - negative side.
3. Confirm the Y OUT is  $0.78 \pm 0.5 \text{ Vp-p}$ .
4. Confirm the residual chroma is  $32 \text{ mVp-p}$  below. If it is above  $35 \text{ mVp-p}$ , adjust with RV1 and T1 on CFM201 board while tracking.

NTSC COLOR DEMODULATION ADJUSTMENT  
(RV14,RV111,RV104,RV107)

## 1. NTSC 3.58MHz - HUE adjustment (RV114)

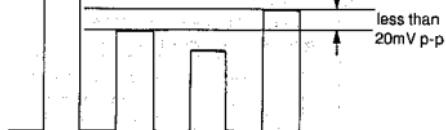
- (1) Supply NTSC color bar signal including burst and R-Y component.  
(For example, Tektronix 1410SG output color bar signal with B-Y component removed.)
- (2) Connect an oscilloscope to Q128 emitter (B-Y OUT).
- (3) Adjust RV114 (358NT - HUE) so that all the waveform peaks should have equal amplitude (look flat) except burst. (Level difference should be less than  $10\text{mV p-p}$ .)

## 2. NTSC 3.58MHz - COLOR adjustment (RV111)

- (1) Receive NTSC 3.58 color bar signal.
- (2) Connect an oscilloscope to IC124 pin-⑩ (B-OUT).
- (3) Adjust RV111(358NT-COL) so that waveform peaks should have the same level (most flat).

(Adjust so that the first and the 4th peaks should have the same level.)

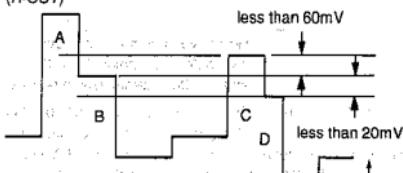
(B-OUT)



## 3. NTSC 3.58MHz - COLOR (R-Y) adjustment (RV104, RV107)

- (1) Receive the color bar signal.
- (2) Connect an oscilloscope to the Q127 emitter (R-Y OUT), and adjust RV104 (358NT-SHIFT) so that the output of the burst section (B-Y axis signal output) becomes 0.
- (3) Connect an oscilloscope to IC124 pin-④ (R-OUT). Adjust RV107 (358NT-COL (R-Y)) so that the level difference should be minimum.

(R-OUT)



(Adjust for B=D. [less than 20mV]. Also level difference between B and C should be less than 60mV.)

**NTSC 4.43MHz COLOR DEMODULATION  
ADJUSTMENT (RV108, RV112, RV103, RV106)**

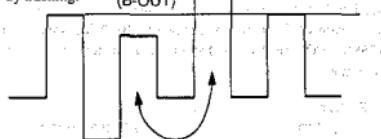
1. NTSC 4.43MHz - COLOR adjustment (RV108, RV112)
  - (1) Receive NTSC 4.43 color bar signal (75% color bar).
  - (2) Connect an oscilloscope to IC124 pin ⑧ (B-OUT).
  - (3) Adjust RV108 (443NT-COL) so that waveform peaks should have the same level (most flat).

(B-OUT) (Adjust so that the first and the 4th peaks should have the same level.)



- (4) When cyan and magenta have level difference, adjust RV112 (443NT-HUE) and RV108 (443NT-COL) alternatively to remove, by tracking.

(B-OUT)



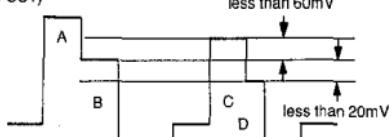
When cyan and magenta have level difference, adjust RV112, and RV108 alternatively to remove.

2. NTSC 4.43MHz - COLOR (R-Y) adjustment (RV103, RV106)

- (1) Receive the NTSC 4.43 color bar signal (75%, chroma color bar).
- (2) Connect an oscilloscope to the Q127 emitter (R-Y OUT), and adjust RV103(443NT-SHIFT) so that the output of the burst section (B-Y axis signal output) becomes 0.
- (3) Connect an oscilloscope to IC124 pin ⑪ (R-OUT). Adjust RV106 (443NT-COL (R-Y)) so that the level difference should be minimum.

(R-OUT)

less than 60mV

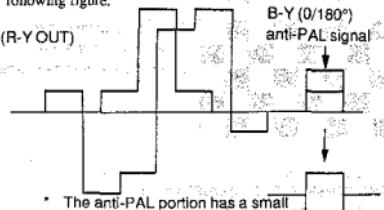


(Adjust for B=D. [less than 20mV] Also level difference between B and C should be less than 60mV.)

**PAL COLOR DEMODULATION ADJUSTMENT  
(RV113, RV2/SEP101, RV110, RV105, RV205)**

1. PAL PHASE Adjustment (RV113, RV2/SEP101)

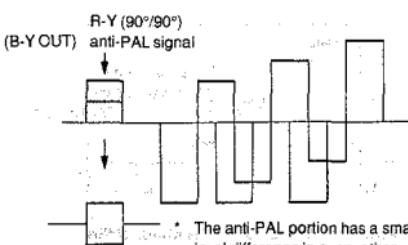
- (1) Receive the special PAL color-bar.
- (2) Connect an oscilloscope to emitter of Q127 (R-Y OUT).
- (3) Adjust RV113 (PAL-PHASE) so that B-Y (0/180°) anti-PAL portion (in the R-Y demodulated output) becomes "0" (flat) as following figure.



The anti-PAL portion has a small level difference in every other horizontal period. So, adjust so that average becomes "0".

- (4) Connect an oscilloscope to emitter of Q128 (B-Y OUT).

- (5) Adjust RV2 inside SEP101 so that R-Y (90°/90°) anti-PAL portion (in B-Y demodulated output) becomes "0" (flat) as following figure.



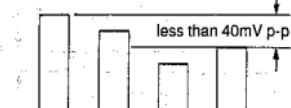
The anti-PAL portion has a small level difference in every other horizontal period. So, adjust so that average becomes "0".

For the adjustments of (3) and (5), it is also possible to set the color level to MAX with the chroma adjusting knob of the unit and erase the color of the anti-pal section.

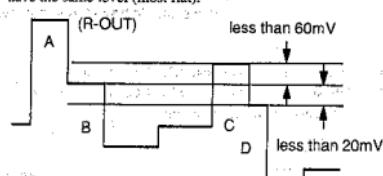
**2. PAL COLOR ADJUSTMENT (RV110)**

- (1) Receive PAL color bar signal (75% color bar).
- (2) Connect an oscilloscope to IC124 pin.⑩ (B-OUT).
- (3) Adjust RV110 (PAL-COL) so that waveform peaks should have the same level (most flat).

(Adjust so that the first and the 4th  
(B-OUT) peaks should have the same level.)

**3. PAL-COLOR-(R-Y) ADJUSTMENT (RV105)**

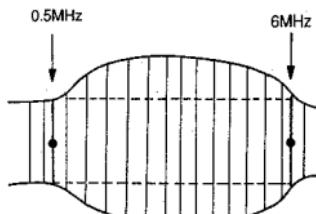
- (1) Connect an oscilloscope to IC124 pin.⑪ (R-OUT).
- (2) Adjust RV105 (PAL-COL-(R-Y)) so that waveform peaks should have the same level (most flat).



(Adjust for B-D. [less than 20mV]. Also level difference  
between B and C should be less than 60mV.)

**SUB-SHARP ADJUSTMENT (RV205)**

- (1) Receive a sweep signal (or multi-burst).
  - Bandwidth should be more than 10MHz (flat).
  - Composite sync should be included.
  - Turn burst off.
- (2) Connect an oscilloscope to IC124 pin.⑫ (G-OUT).
- (3) Adjust RV205 (SUB-SHARP) as shown.



Example of sweep signal output waveform

[specification]  
 $6\text{MHz}/0.5\text{MHz} = 0 \pm 0.5\text{dB}$

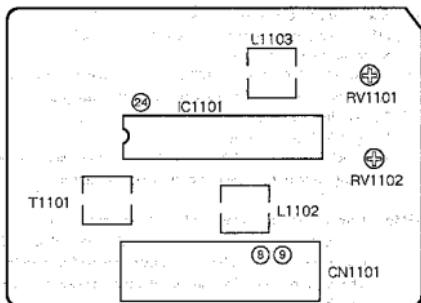
**CHROMA H PULSE POSITION ADJUSTMENT (RV101,RV102)**

- (1) Receive the SECAM color bar signal.  
(The left edge of the screen should not be colored.)
- (2) Set to the under-scan mode.
- (3) Adjust RV101 (PLUSE-WIDTH) until the point immediately before the color on the left edge of the screen disappears.
- (4) Release the under-scan mode.
- (5) Set the HV DELAY mode.
- (6) Adjust RV102 (PULSE-POSI) until the point immediately before the rising color of the image after back porch disappears.

**Note :** If image phase adjustment or HV DELAY amount adjustment during HV DELAY is performed after completing the adjustment in this section, re-adjustments will be required. Therefore, performed this adjustment after the two mentioned have been performed.

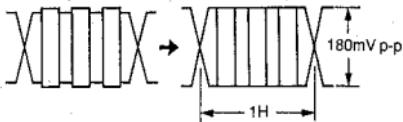
### 5-3. S BOARD ADJUSTMENTS

#### —S BOARD (COMPONENT SIDE)—



#### SECAM (T1101,L1102,L1103)

1. Receive SECAM color-bar.
2. Bell Filter Adjustment (T1101)
  - (1) Connect an oscilloscope to IC1101 pin-④.
  - (2) Adjust T1101 (Bell Filter) so that the chroma waveform becomes smooth. (Uneven level should be minimum.)



3. Color Balance Adjustment (L1102,L1103)
  - (1) Connect an oscilloscope to pin-④ (R-Y) of CN1101 connector.
  - (2) Adjust L1102 (R-Y) so that the non-colored portion level becomes flat.



- (3) Connect an oscilloscope to pin-④ (B-Y) of CN1101 connector.
- (4) Adjust L1103 (B-Y) so that the non-colored portion level becomes flat.

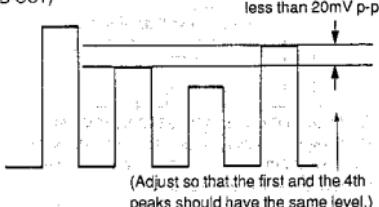


- (5) When adjusting the color level of the unit to MAX or MIN using the chroma adjusting knob, check that the white balance of the colorless section does not change.

#### DEMODULATION LEVEL ADJUSTMENT (RV1101,RV1102)

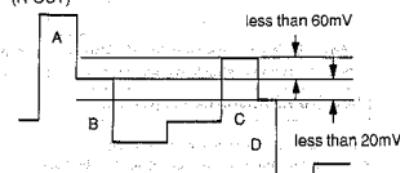
1. Receive SECAM color-bar.
2. Connect an oscilloscope to IC124 pin-④ (B-OUT).
3. Adjust S board RV1101 (SEC-COL) so that waveform peaks should have the same level (most flat).

#### (B-OUT)

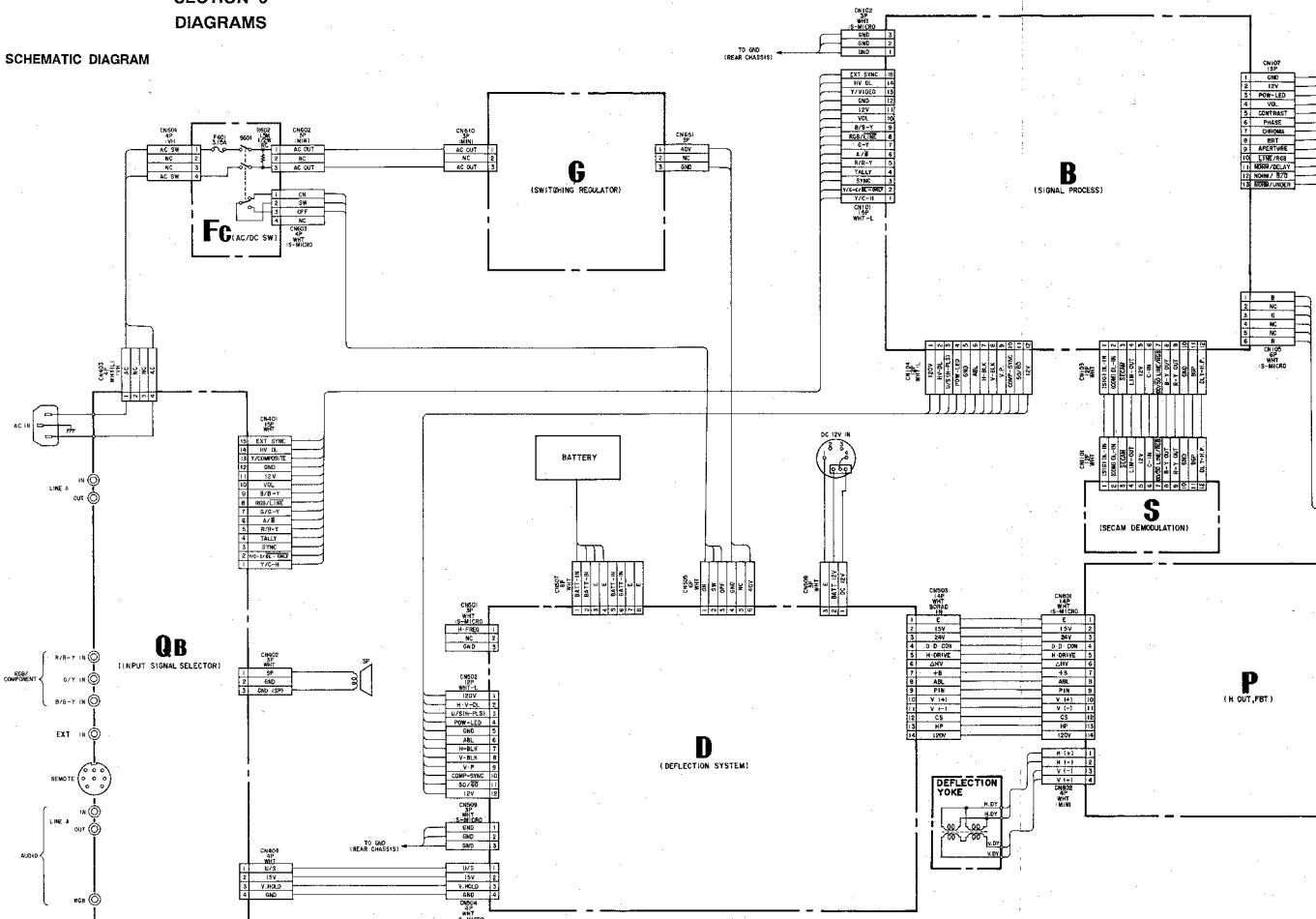


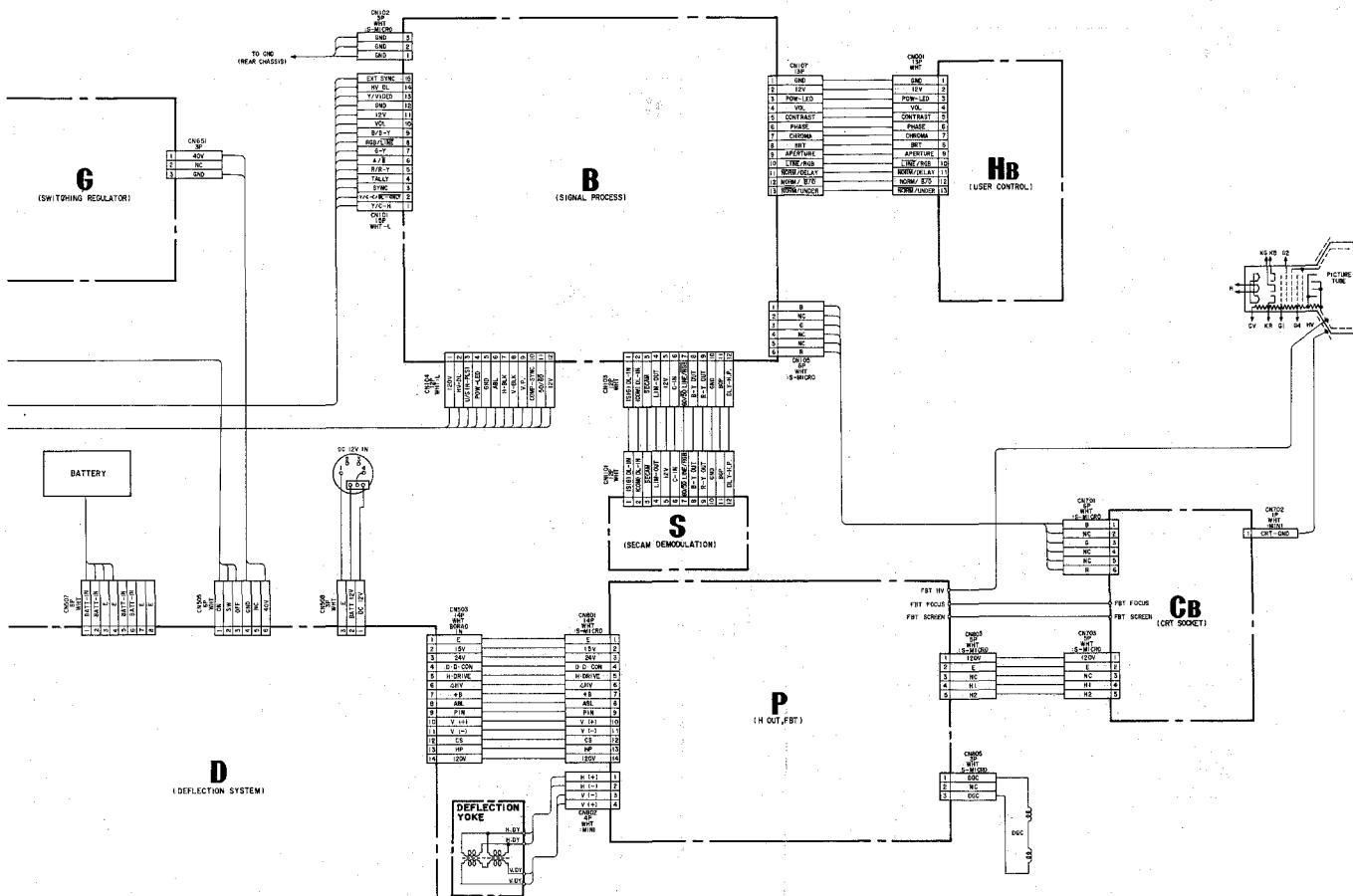
4. Connect an oscilloscope to IC124 pin-④ (R-OUT).
5. Adjust S board RV1102 (SEC-COL (R-Y)) so that the level difference should be minimum.

#### (R-OUT)

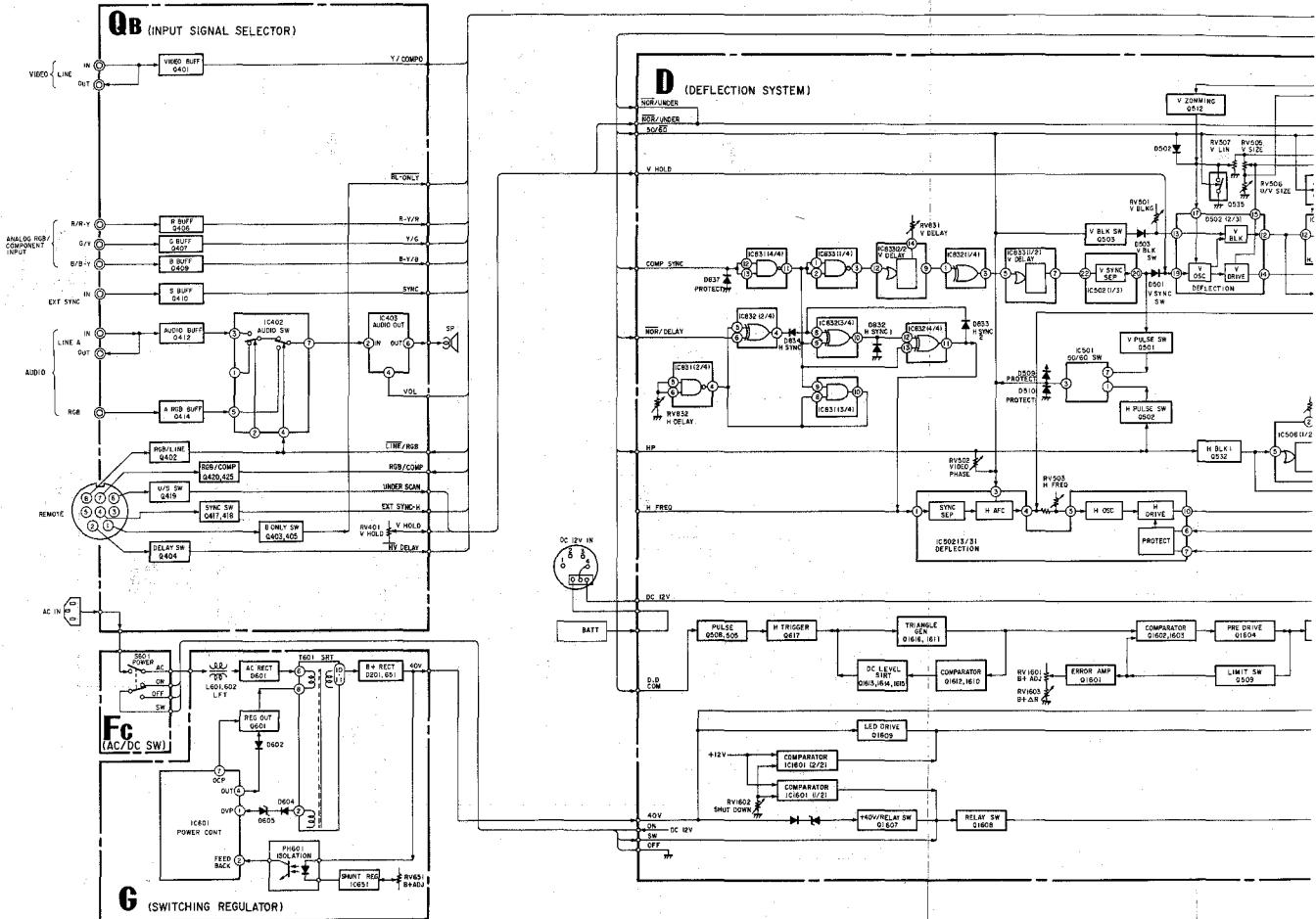


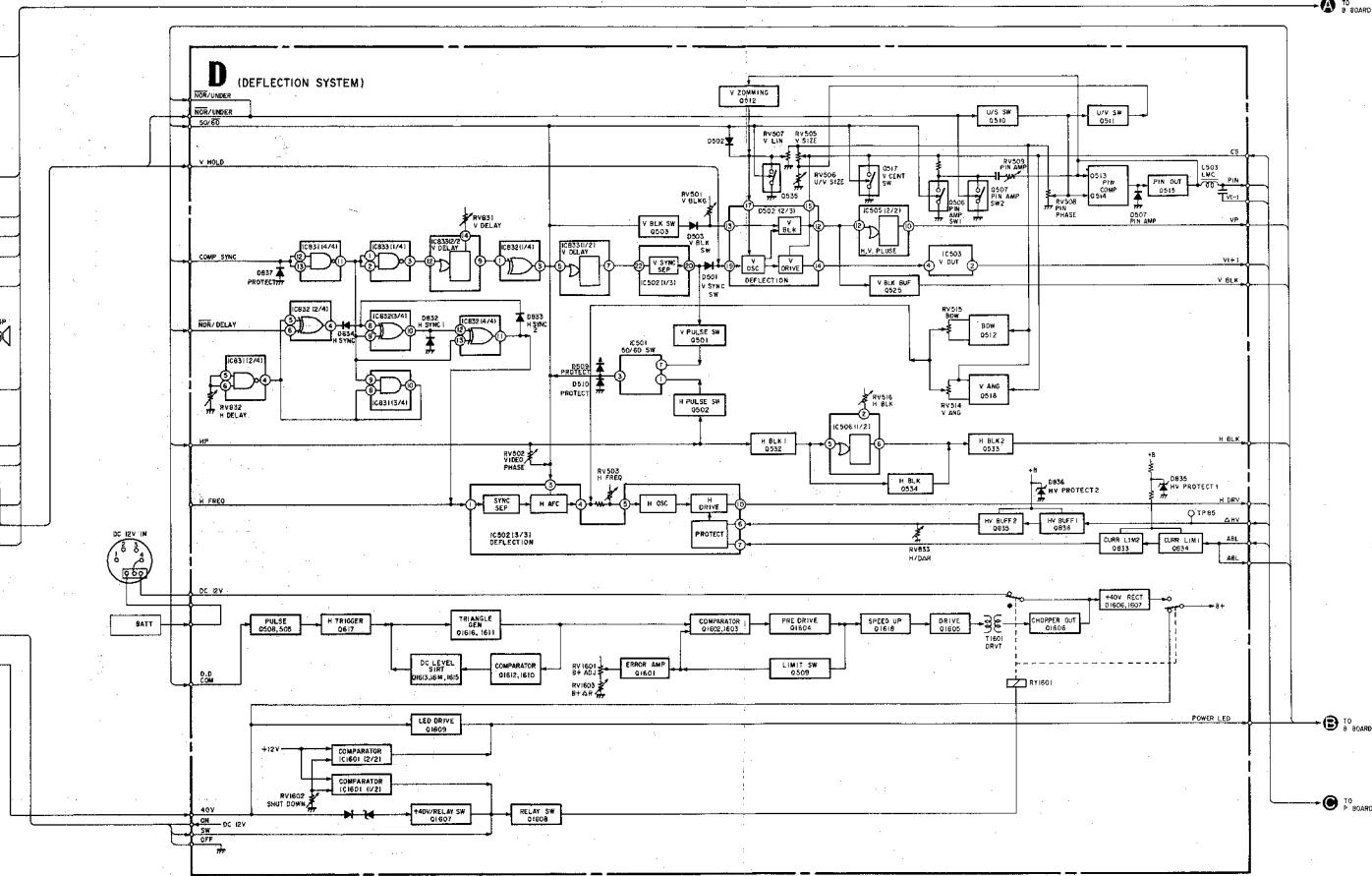
(Adjust for B=D. [less than 20mV] Also level difference between B and C should be less than 60mV.)

**SECTION 6**  
**DIAGRAMS**
**6-1. FRAME SCHEMATIC DIAGRAM**

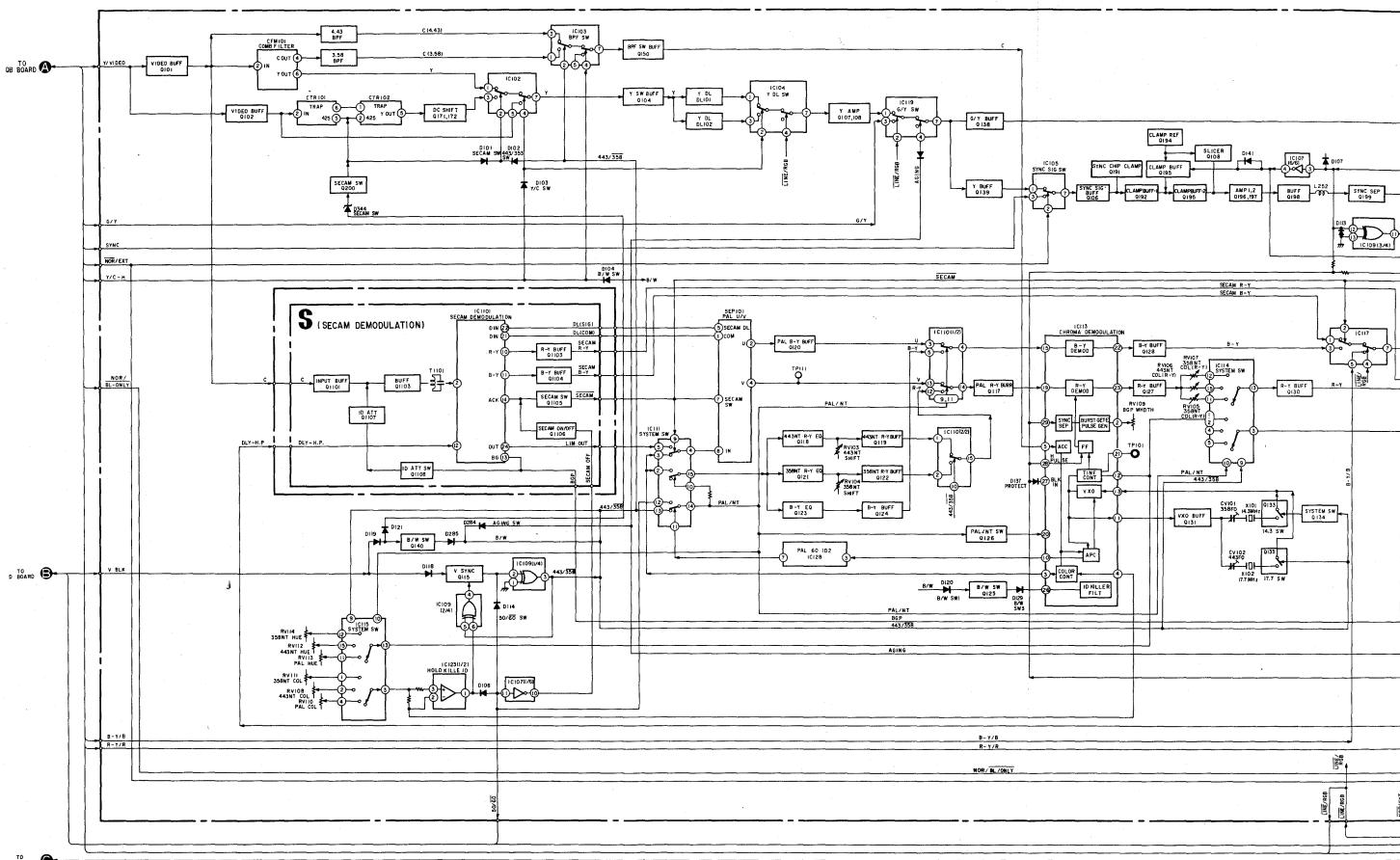


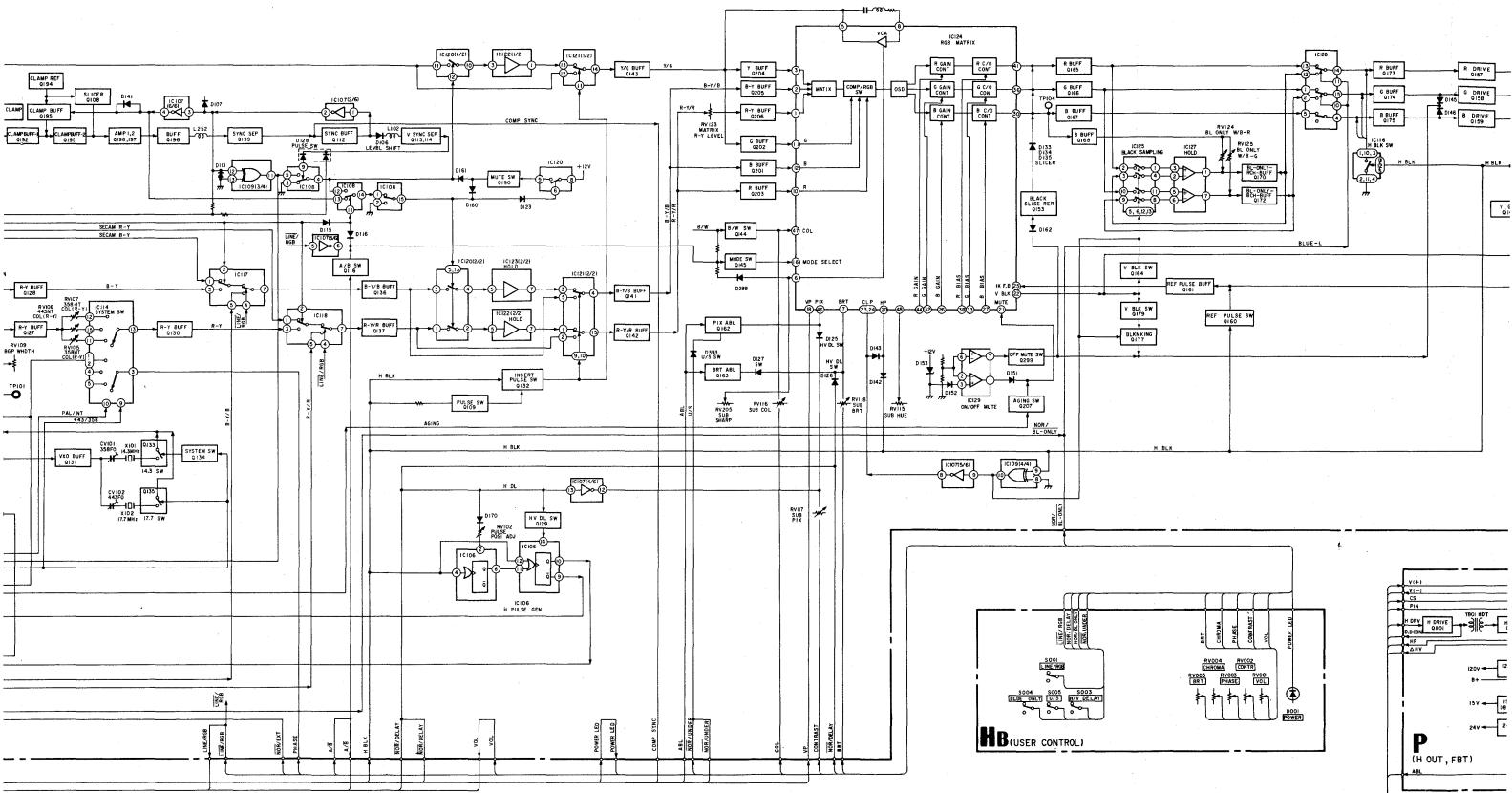
## 6-2. BLOCK DIAGRAM (1)

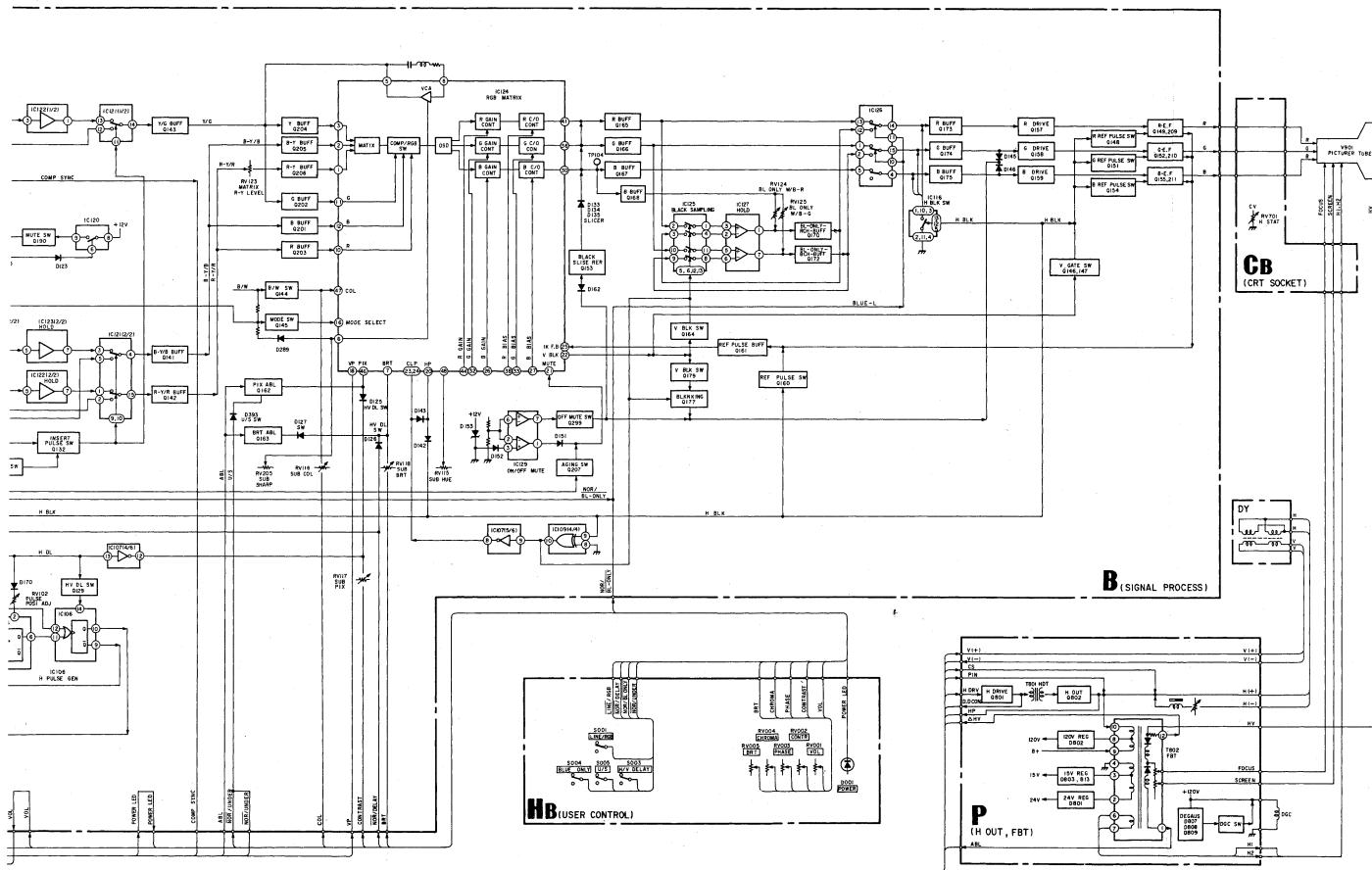




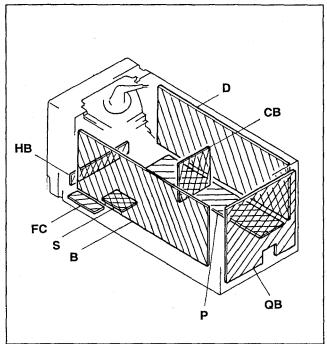
## 6-3. BLOCK DIAGRAM (2)







## 6-4. CIRCUIT BOARDS LOCATION



## 6-5. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

- All capacitors are in  $\mu\text{F}$  unless otherwise noted. pF:  $\mu\text{F}$  50 WV or less are not indicated except for electrolytics.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm  
Rating electrical power  $\frac{1}{4} \text{W}$

- All resistors are in ohms.
- $\square$ : nonflammable resistor.
- $\square\text{---}\square$ : fusible resistor.
- $\triangle$ : internal component.
- $\square$ : panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- The components identified by **H** in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by **D**, make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by **H** and repeat the adjustment until the specified value is achieved. (Refer to RV651, RV103, and RV833 adjust on page 18 and 19.)
- When replacing the part in below table be sure to perform the related adjustment.

Part replaced (D)	Adjustment (H)
IC601, IC651, PH602, C854, R653, R654, R655, R656, R657, R658, R659, R660, R661, R662, R663, R664, R665, C1601, C1602, R1601, R1602, R1603, R1604, R1605, R1606, R1607, R1608, R1628, R1629, R1630, RV1001, RV1003	RV651 (B MAX)
IC902, Q833, Q834, Q835, Q836, D833, D834, C841, C842, C843, D844, C845, C846, C847, C848, RV833, R832, R850, R851, R852, R853, R854, R855, R856, R857, R858, R859, R861, R862, R863, NL801	RV1003 (B+ MAX IN DC POWER INPUT MODE)
	R833 (HOLD-DOWN)

- All voltages are in V.
- Voltage are dc with respect to ground unless otherwise noted.
- Readings are taken with a color-bar signal input.
- Readings are taken with a PAL color-bar signal input.
- $\square$ : adjustment for repair.
- Voltage variations may be noted due to normal production tolerance.
- $\text{---}$ : B + bus.
- $\text{---}$ : B - bus.
- $\text{---}$ : signal path.
- No mark: with PAL color-bar signal received or common voltage.
- $\langle \rangle$ : with SECAM color-bar signal received.
- $\langle \rangle >$ : with NTSC 3.58 color-bar signal received.
- $\langle \rangle \rangle$ : with NTSC 4.43 color-bar signal received.
- $\langle \rangle [ ]$ : with S/Y/C color-bar signal received.
- $\langle \rangle [ ]$ : with analog RGB color-bar signal received.
- $\langle \rangle \gg$ : with component color-bar signal received.
- $\langle \rangle \ast \ast$ : measurement impossibility

## Reference information

RESISTOR	: RN METAL FILM
	: RC SOLID
	: FPRD NONFLAMMABLE CARBON
	: FUSE NONFLAMMABLE
	: RS NONFLAMMABLE WIREWOUND
	: RB NONFLAMMABLE WIREWOUND
COIL	: LF-8L MICRO INDUCTOR
CAPACITOR	: TA TANTALUM
	: PS STYROL
	: PP POLYPROPYLENE
	: PT MYLAR
	: MPS METALIZED POLYESTER
	: MPP METALIZED POLYPROPYLENE
	: ALB BIPOLAR
	: ALT HIGH TEMPERATURE
	: ALR HIGH RIPPLE

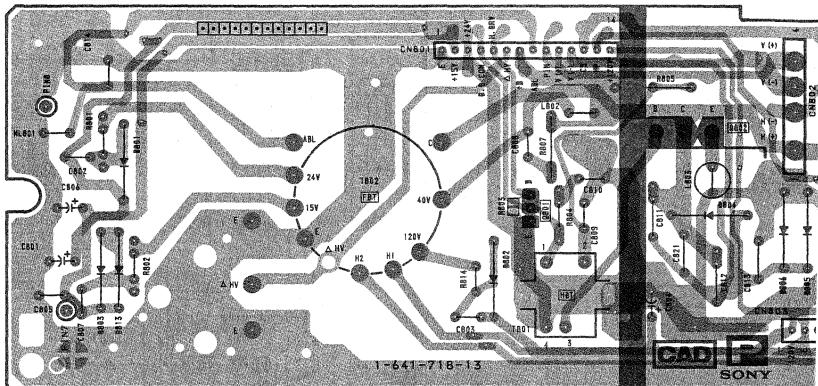
**P** [H OUT, FBT]    **G** [SWITCHING REGULATOR]

**S** [SECAM DEMODULATION]

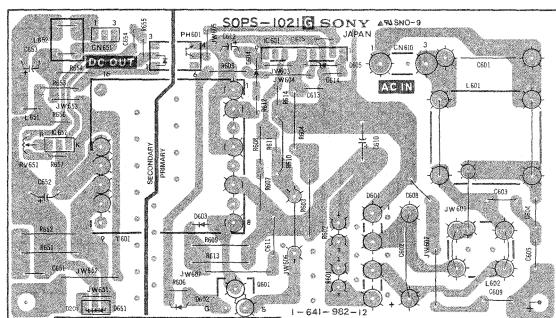
**Fc** [AC/DC SWITCH]

**Hb** [USER CONTROL]

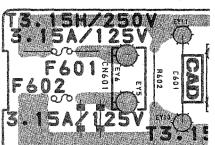
## - P Board -



## - G Board -

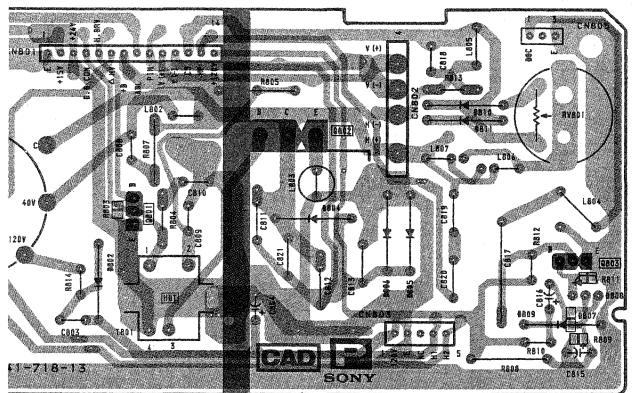


## - FC Board -

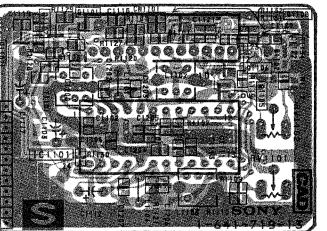


ECAM DEMODULATION] **Fc** [AC/DC SWITCH] **HB** [USER CONTROL]

**QB** [INPUT SIGNAL SEI]

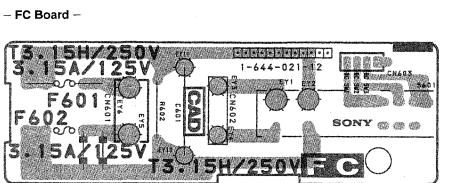
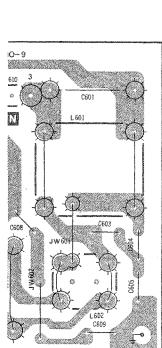
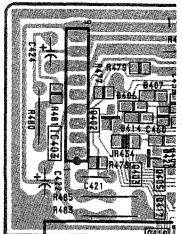


— S Board — — Conductor Side —



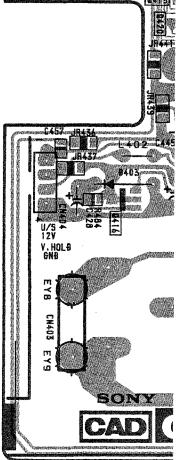
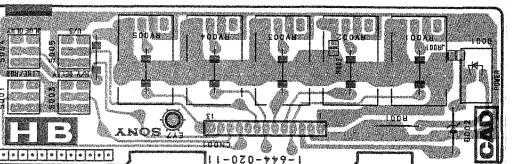
— S Board — — Component Side —

— QB Board —

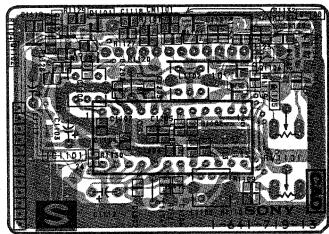


— FC Board —

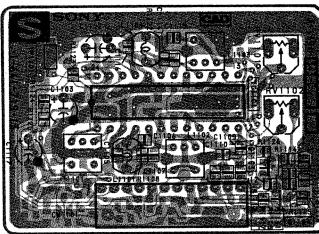
— HB Board —



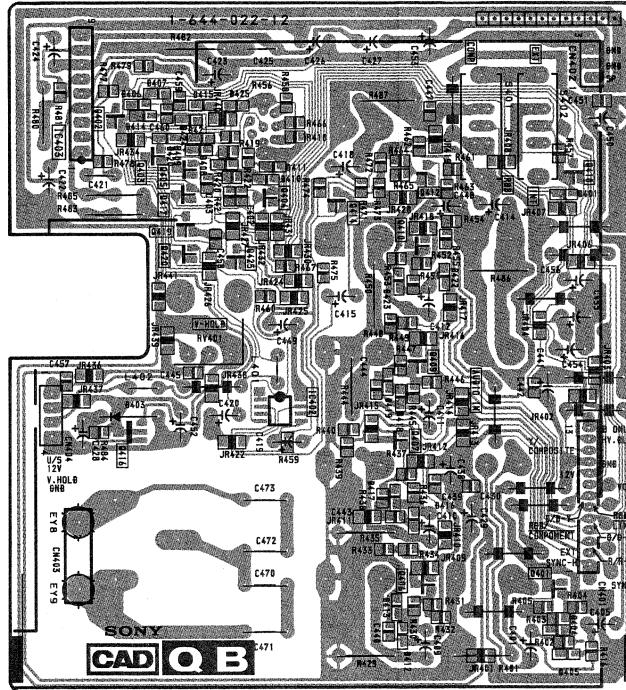
— S Board — — Conductor Side —



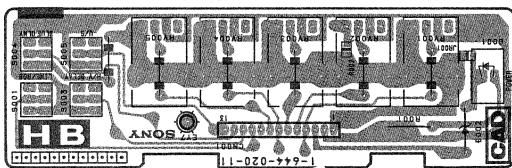
— S Board — — Component Side —



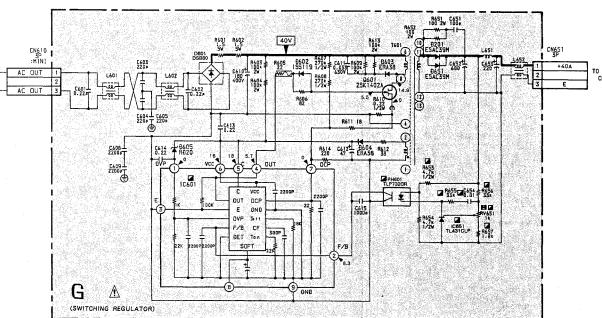
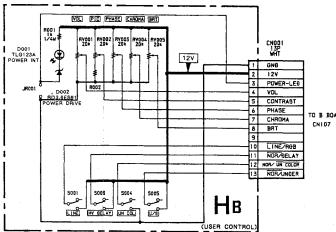
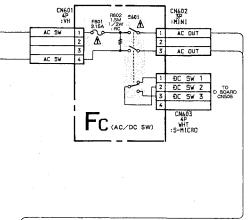
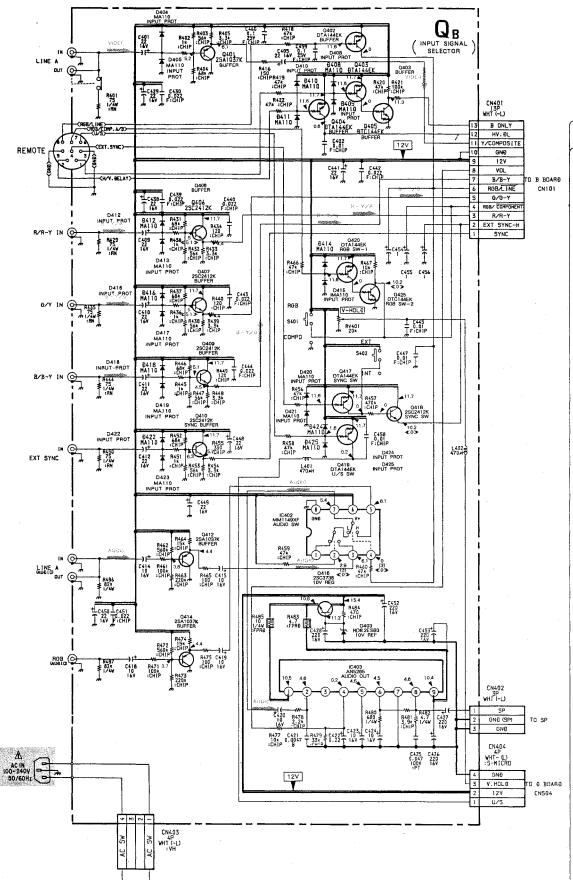
- QB Board -



- HB Board -

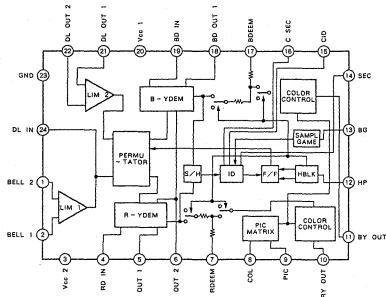


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

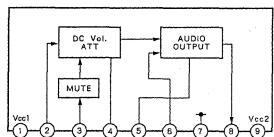
A  
B  
C  
D  
E  
F  
G  
H  
I  
J

15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30

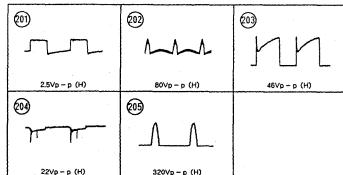
S BOARD IC1101 CXA1214P



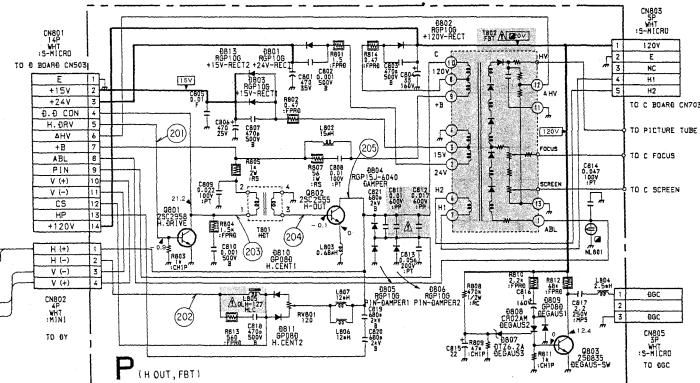
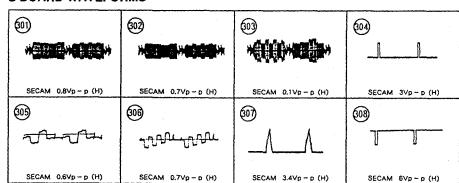
QB BOARD IC403 AN5265



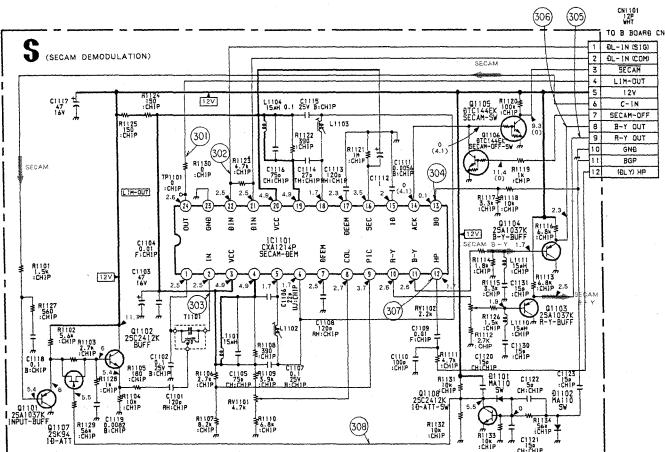
P BOARD WAVEFORMS



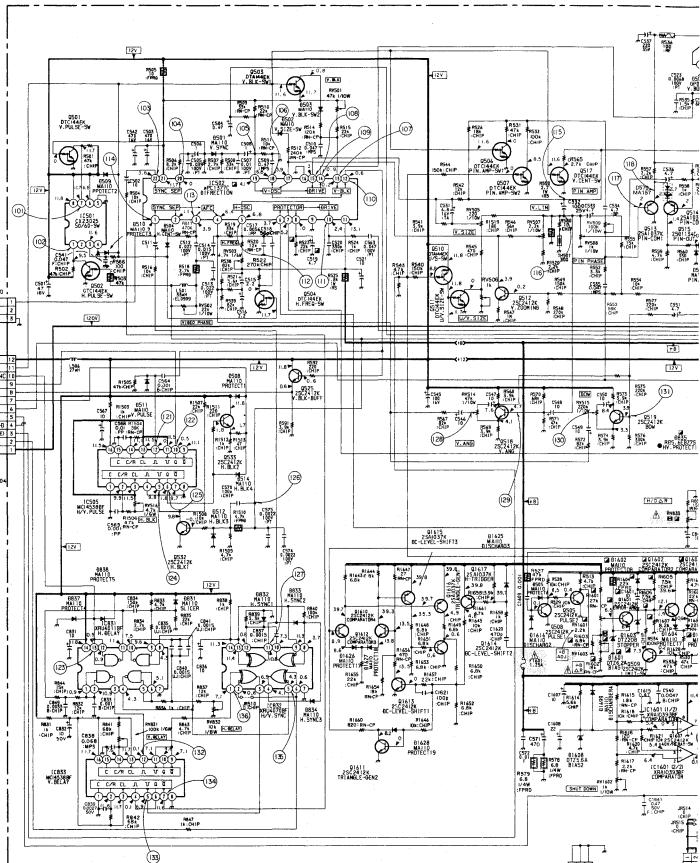
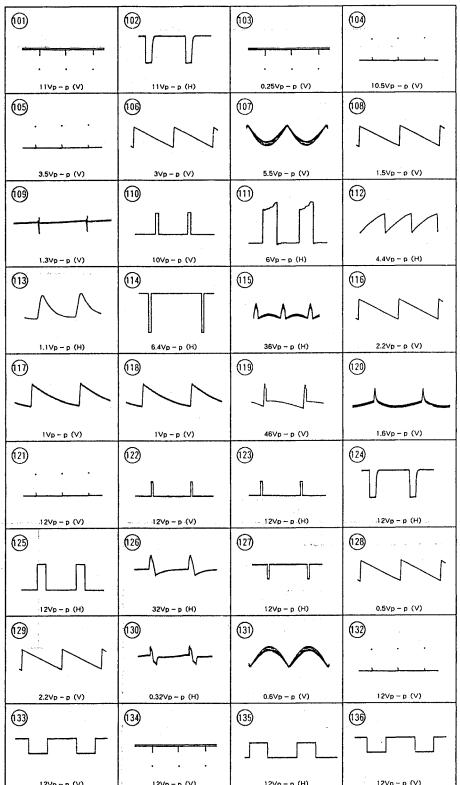
S BOARD WAVEFORMS

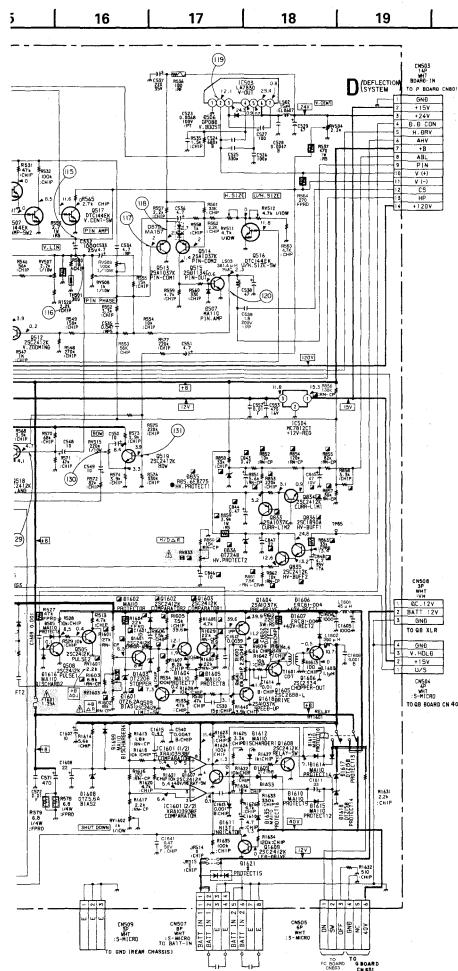


P (H OUT, FBT)

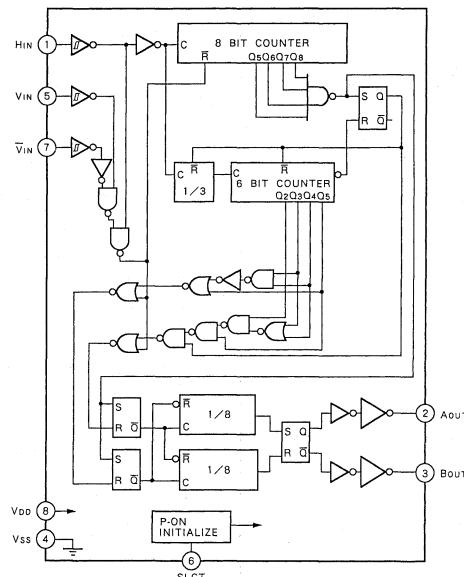


### • D BOARD WAVEFORMS

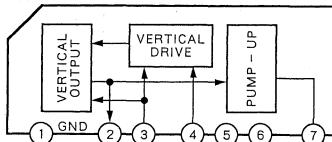




D BOARD IC501 CX23025

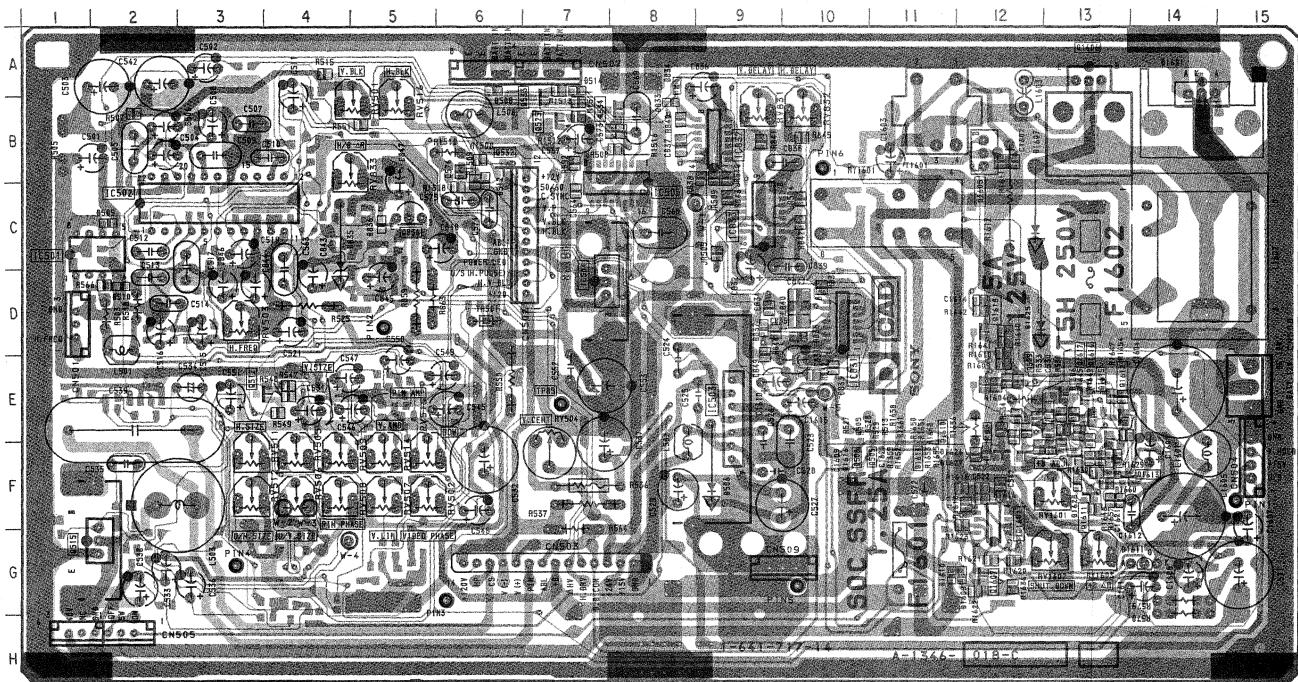


D BOARD IC503 LA7830



**D** [DEFLECTION SYSTEM]

- D Board - = Component Side =



## D Board (Component Side)

IC
IC505 C - 8
IC831 D - 10
IC832 B - 9
IC833 C - 9
IC1601 F - 12

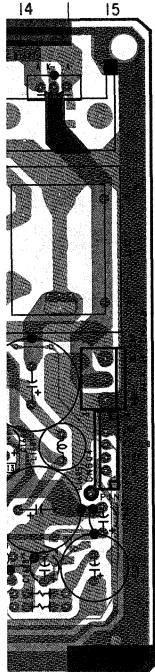
## TRANSISTOR

Q505	F - 12
Q508	F - 12
Q509	E - 12
Q512	E - 4
Q525	B - 7
Q535	B - 6
Q533	A - 7
Q1607	G - 12
Q1610	E - 13
Q1611	F - 13
Q1612	E - 13
Q1613	F - 14
Q1614	F - 13
Q1615	E - 13
Q1616	E - 13
Q1617	E - 13

DIODE

DIODE	
D505	E - 12
D508	A - 6
D509	C - 2
D510	D - 2
D514	A - 7
D833	B - 8
D834	A - 8
D836	C - 5
D837	D - 9
D838	D - 10
D1606	E - 13
D1609	G - 12
D1610	G - 11
D1611	G - 14
D1616	F - 10
D1625	D - 12
D1626	F - 13
D1627	F - 13
D1628	F - 13

D Board (Component Side)



## IC

IC505 C - 8  
IC511 F - 10  
IC520 B - 9  
Q333 G - 9  
IC1601 F - 12

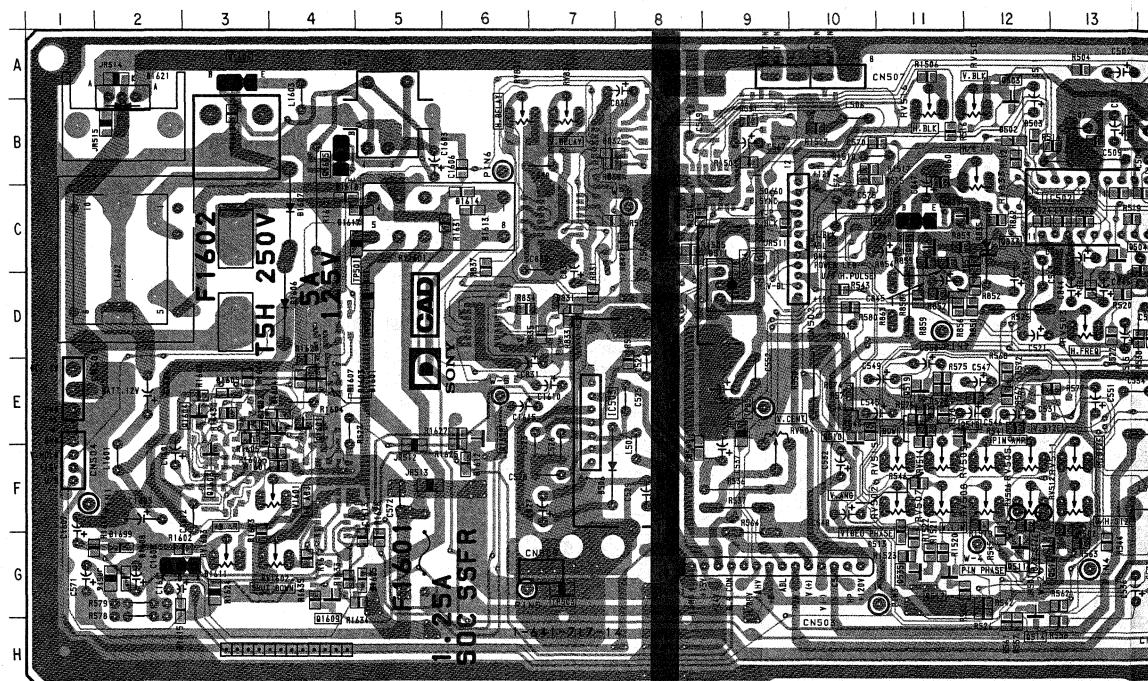
## TRANSISTOR

Q505 F - 12  
Q508 G - 12  
Q509 E - 12  
Q512 E - 4  
Q525 B - 7  
Q535 B - 6  
Q533 A - 7  
Q1807 G - 12  
Q1810 E - 13  
Q1811 E - 13  
Q1812 E - 13  
Q1813 F - 14  
Q1814 F - 13  
Q1815 E - 13  
Q1816 E - 13  
Q1817 E - 13  
Q1818 D - 13

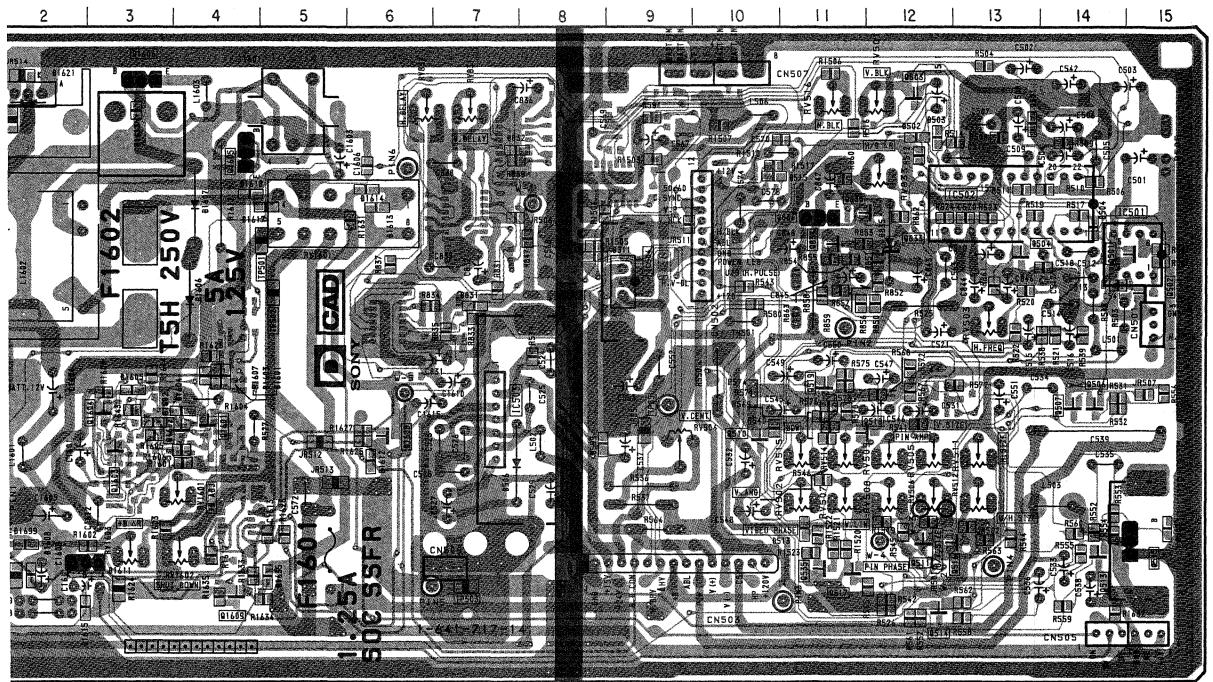
## DIODE

D505 E - 12  
D508 A - 6  
D509 C - 2  
D510 D - 2  
D144 A - 7  
D833 B - 6  
D834 A - 8  
D836 C - 5  
D837 D - 9  
D838 D - 10  
D1606 E - 13  
D1609 G - 12  
D1810 G - 11  
D1811 G - 14  
D1816 F - 10  
D1825 D - 12  
D1826 F - 13  
D1827 F - 13  
D1828 F - 13

— D Board — — Conductor Side —



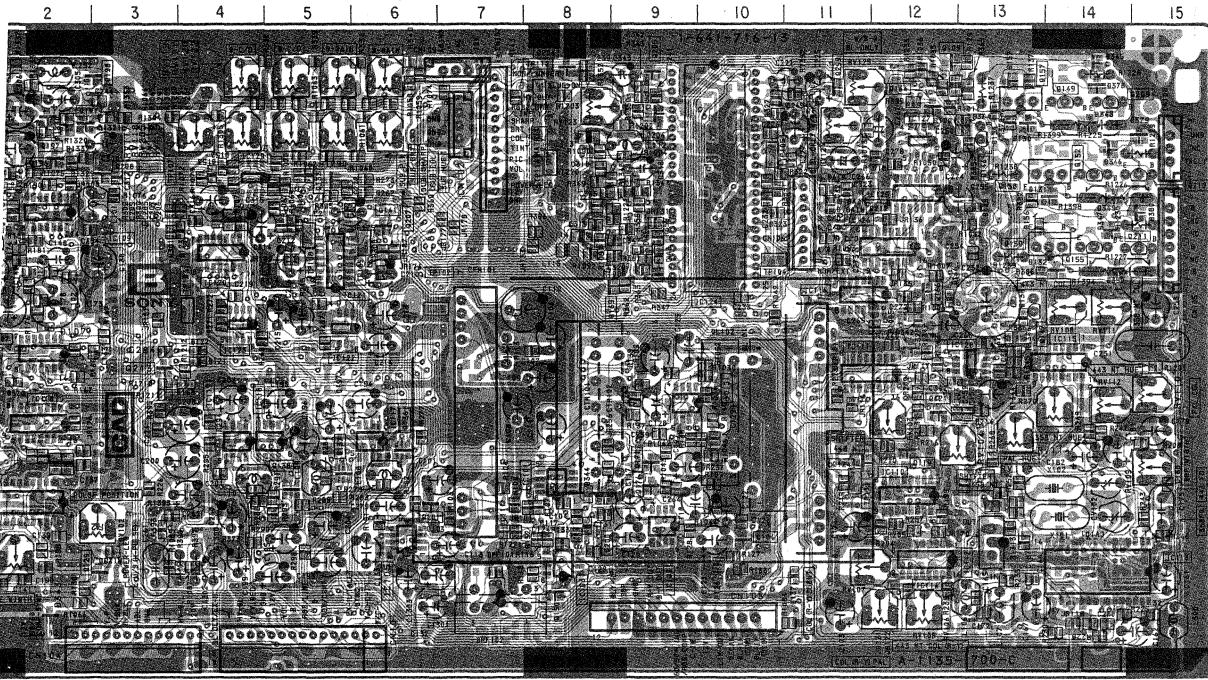
— Conductor Side —



D Board (Conuctor Side)

[OCESS]

- Component Side -



B Board (Component Side)

IC	
IC102	G-9
IC103	G-8
IC104	E-9
IC105	G-6
IC106	C-2
IC107	D-2
IC108	E-2
IC109	C-2
IC110	F-12
IC111	E-11
IC112	C-13
IC113	G-14
IC114	G-12
IC115	E-14
IC116	D-11
IC117	E-6
IC118	F-6
IC119	F-4
IC120	C-4
IC121	C-5
IC122	D-5
IC123	D-4
IC124	C-10
IC125	C-12
IC126	C-12
IC127	B-12
IC128	E-13
IC129	B-4
DIODE	
D107	D-2
D114	C-1
D118	C-1
D119	C-1
D122	D-4
D123	C-4
D128	E-1
D130	B-13
D131	C-14
D132	C-14
D137	G-11
D138	D-13
D139	C-13
TRANSISTOR	
D142	C-9
D143	C-9
D150	C-12
D151	C-5
D152	B-4
D153	B-4
D154	B-13
D155	C-13
D157	C-13
D162	B-11
D163	C-11
D342	D-12
D343	H-2
D344	F-8
D345	A-14
D346	C-14
D347	C-14
D348	B-14
D349	C-14
D350	D-14
D393	F-3

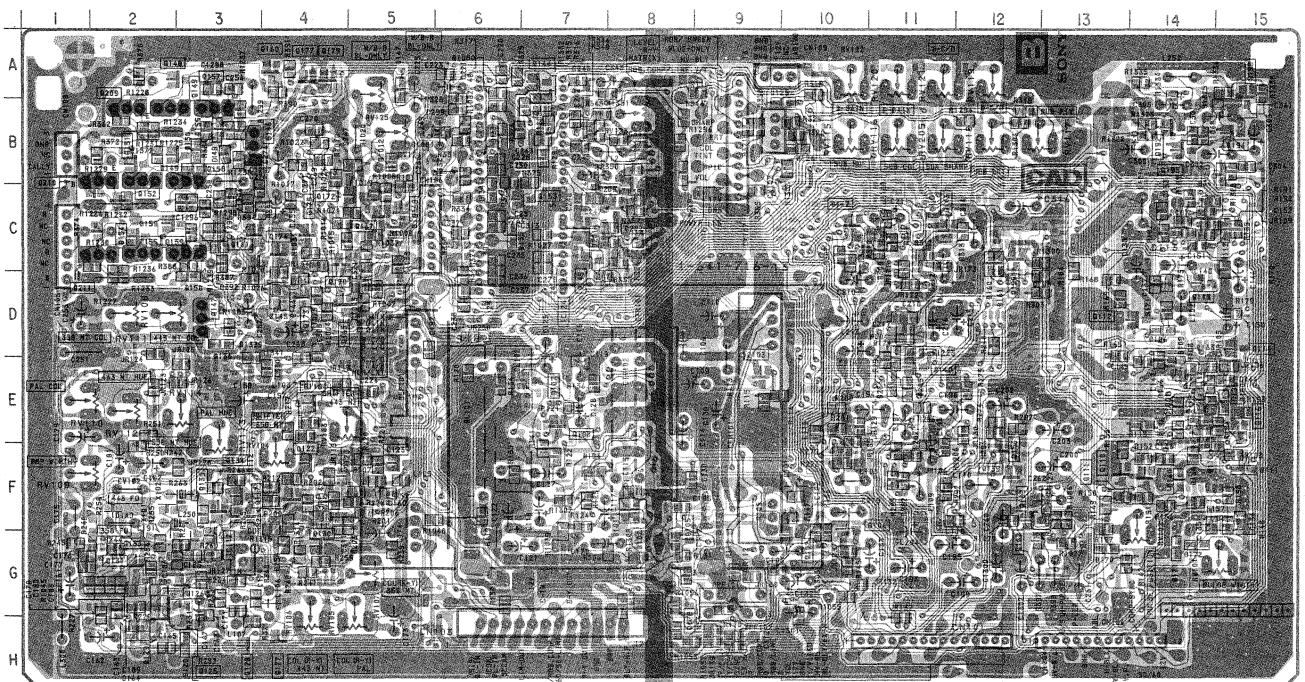
— B Board — — Conductor Side —

Conductor Side)

6	F - 9
1	B - 2
3	B - 1
6	B - 2
4	B - 2
5	A - 9
8	A - 8
8	B - 3
2	C - 11
9	A - 11

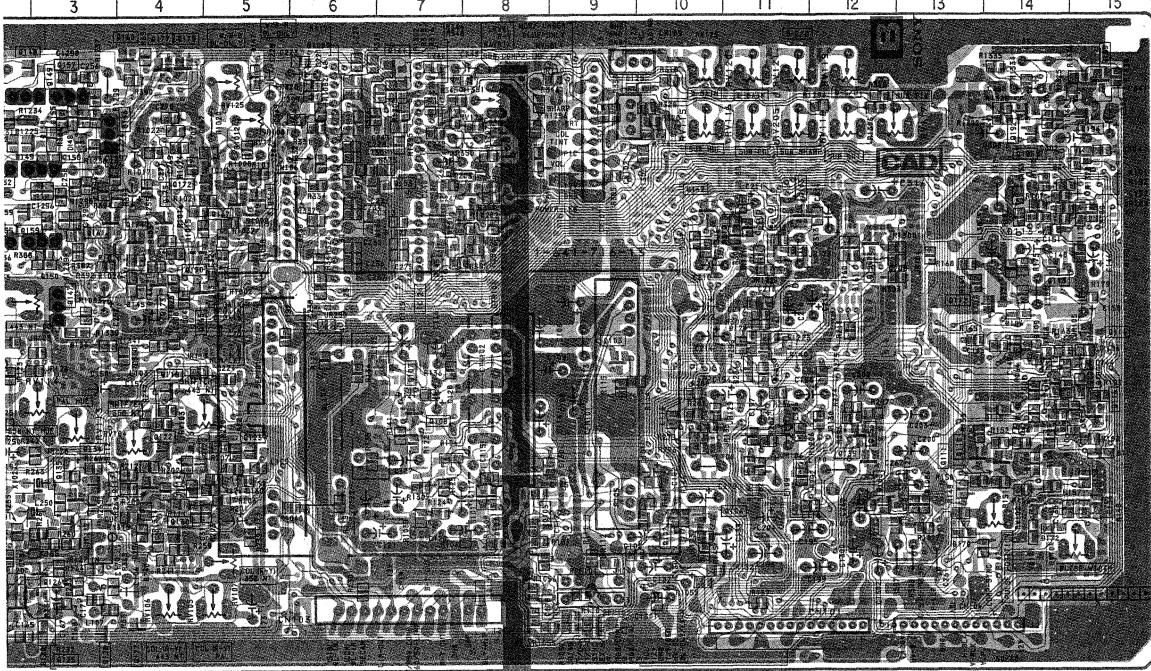
DIODE

7	D - 2
4	C - 1
8	C - 1
9	C - 1
2	E - 4
2	D - 4
3	O - 4
8	E - 1
0	B - 13
1	C - 14
2	D - 14
1	C - 11
8	D - 13
9	C - 13
2	C - 9
3	C - 9
5	D - 12
5	B - 5
2	B - 4
3	B - 4
4	B - 13
5	C - 13
7	A - 13
7	C - 11
2	D - 12
3	H - 2
4	F - 8
5	A - 14
5	B - 14
3	C - 14
3	G - 14
3	D - 14
3	F - 3



B Board (Co

Q102	G - 10
Q103	E - 9
Q106	F - 10
Q107	E - 7
Q108	F - 7
Q112	D - 14
Q114	D - 14
Q116	E - 15
Q117	F - 4
Q118	F - 4
Q120	F - 4
Q122	F - 4
Q123	F - 5
Q125	G - 2
Q126	G - 3
Q127	H - 4
Q128	H - 3
Q130	G - 4
Q131	G - 2
Q133	G - 2
Q134	F - 3
Q135	F - 3
Q138	F - 12
Q140	E - 11
Q142	C - 10
Q143	C - 11
Q144	A - 7
Q145	C - 7
Q146	B - 3
Q147	D - 3
Q148	A - 3
Q149	B - 2
Q151	B - 2
Q152	C - 2
Q153	C - 6
Q154	C - 2
Q155	C - 2
Q157	B - 3
Q158	B - 3
Q159	C - 3
Q160	A - 4
Q161	C - 3
Q162	G - 12
Q163	F - 12
Q165	D - 4
Q166	E - 5
Q168	C - 5
Q170	C - 4
Q172	C - 5
Q173	D - 4
Q174	C - 4
Q175	C - 4
Q177	A - 4



B Board (Conductor Side)

	TRANSISTOR	VARIABLE RESISTOR
	Q190 C - 12	
	Q192 B - 8	
	Q194 B - 15	
	Q196 A - 14	
	Q198 A - 15	
	Q201 C - 7	
	Q202 C - 8	
	Q203 C - 8	
	Q209 B - 2	
	Q210 B - 2	
	Q211 C - 2	
		RV101 G - 15
		RV102 F - 14
		RV103 E - 4
		RV105 H - 5
		RV106 H - 4
		RV107 G - 5
		RV108 D - 2
		RV109 C - 1
		RV110 E - 1
		RV111 D - 2
		RV112 E - 2
		RV113 E - 3
		RV114 E - 3
	D101 E - 8	
	D102 F - 8	
	D104 F - 7	
	D105 G - 8	
	D106 D - 14	
	D108 E - 14	
	D109 E - 14	
	D110 F - 14	
	D111 F - 15	
	D112 C - 15	
	D113 C - 14	
	D115 E - 14	
	D116 E - 14	
	D117 E - 14	
	D120 H - 3	
	D123 B - 9	
	D126 B - 10	
	D128 C - 15	
	D129 H - 2	
	D133 B - 6	
	D134 C - 6	
	D135 C - 6	
	D136 D - 3	
	D137 D - 4	
	D145 D - 4	
	D147 A - 5	
	D148 B - 3	
	D149 B - 2	
	D150 D - 3	
	D155 B - 3	
	D156 B - 3	
	D159 C - 2	
	D160 C - 12	
	D161 C - 12	
	D179 G - 13	
	D181 G - 14	
	D172 G - 14	
	D285 E - 11	
	D289 B - 8	
	D341 B - 15	

A

B

c

D

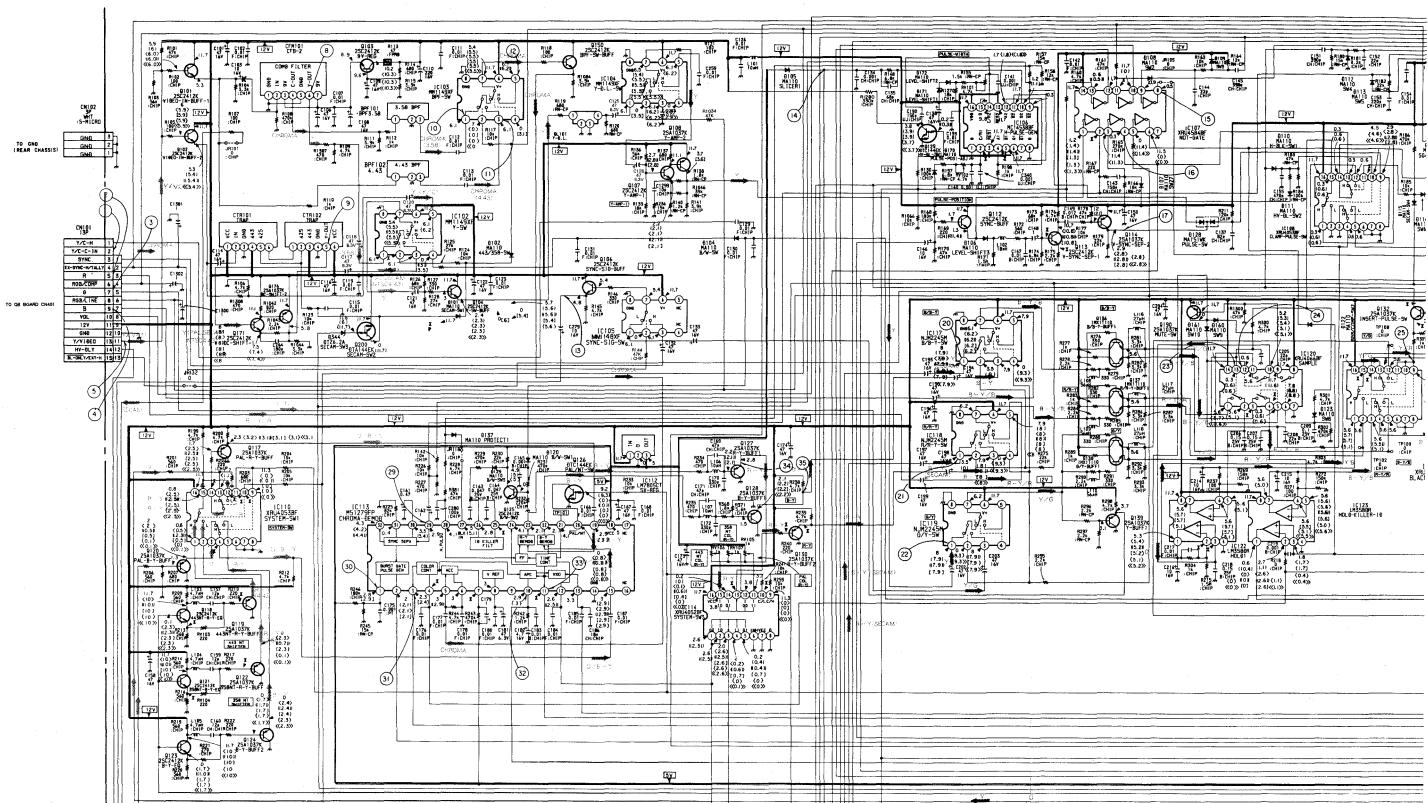
E

F

G

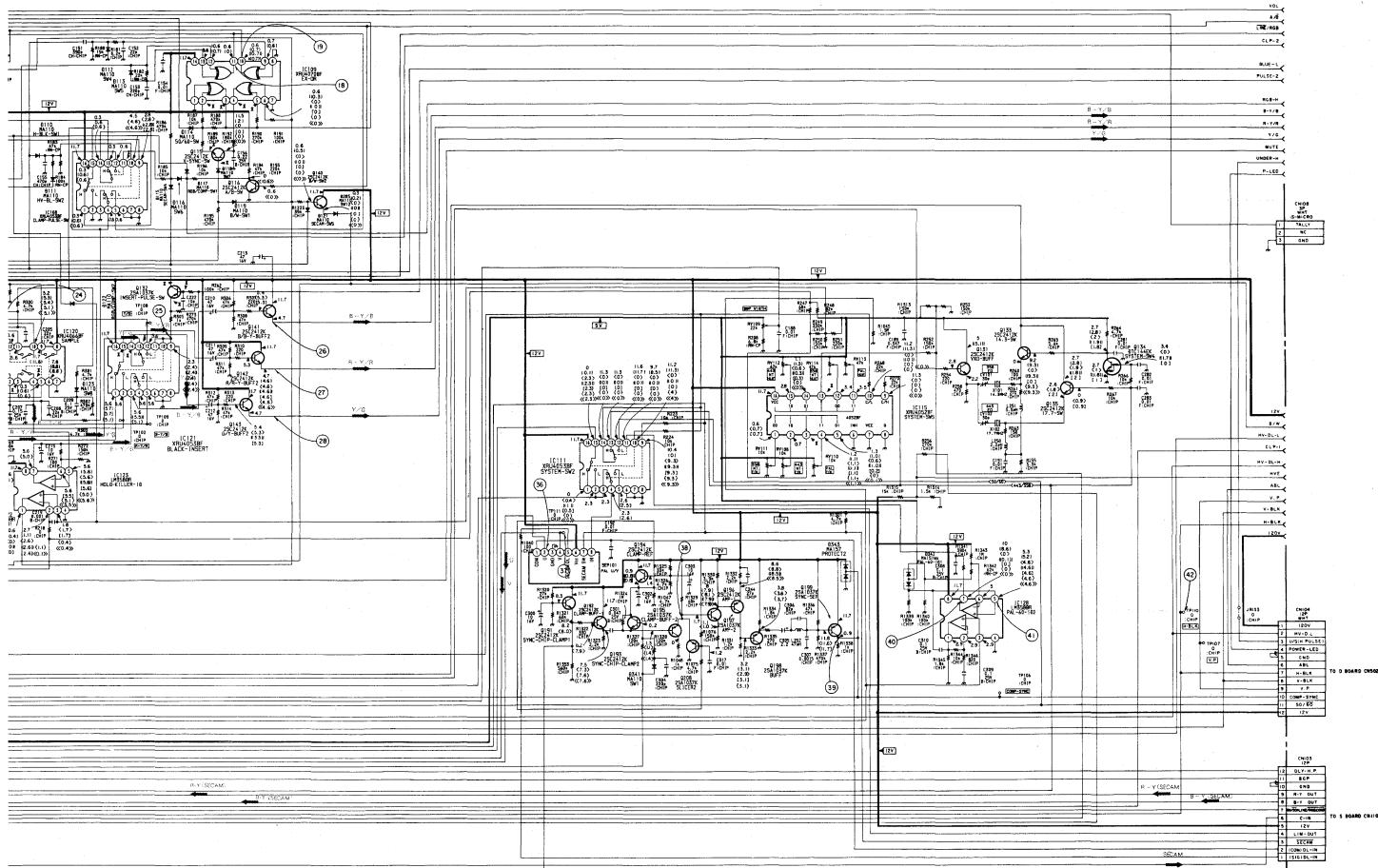
H

1

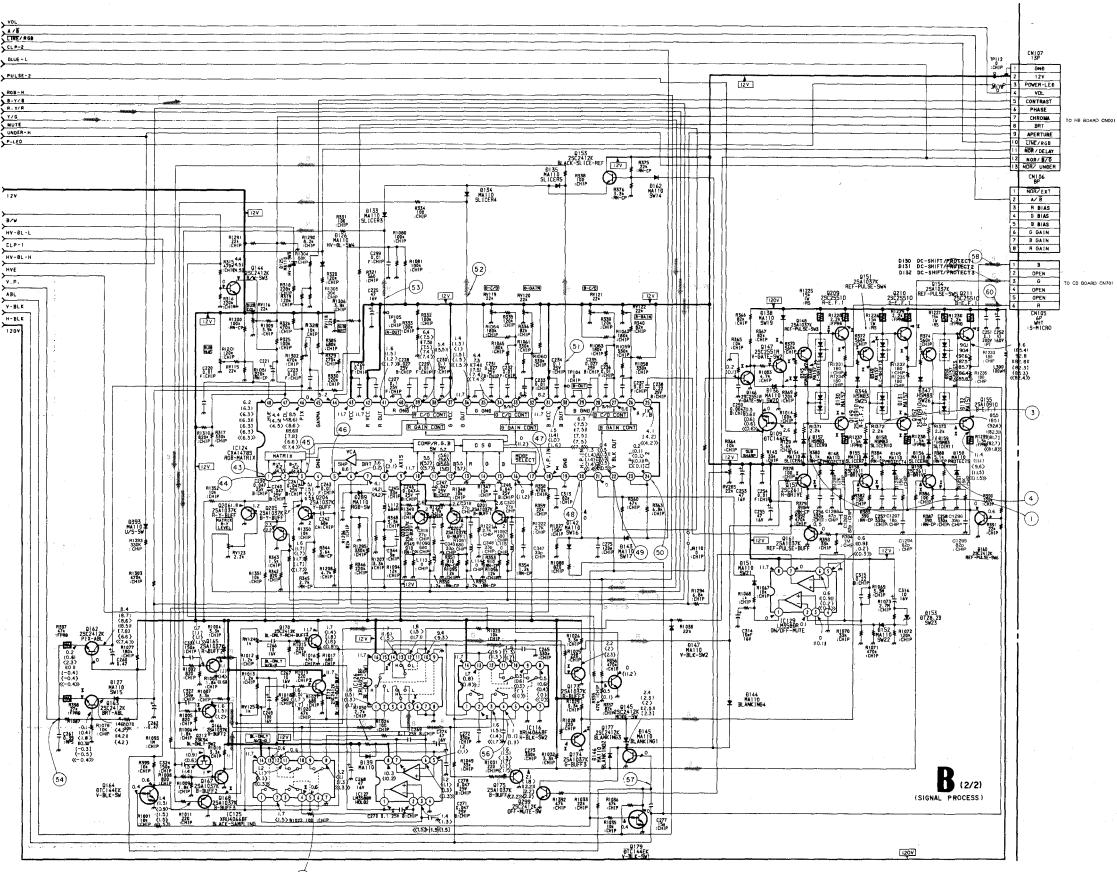


B (1/2)  
(SIGNAL PROCESS)

15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30



1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15

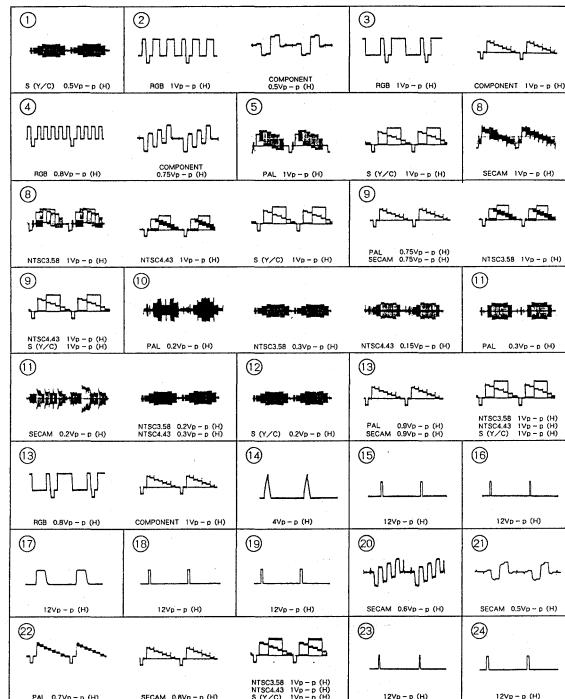


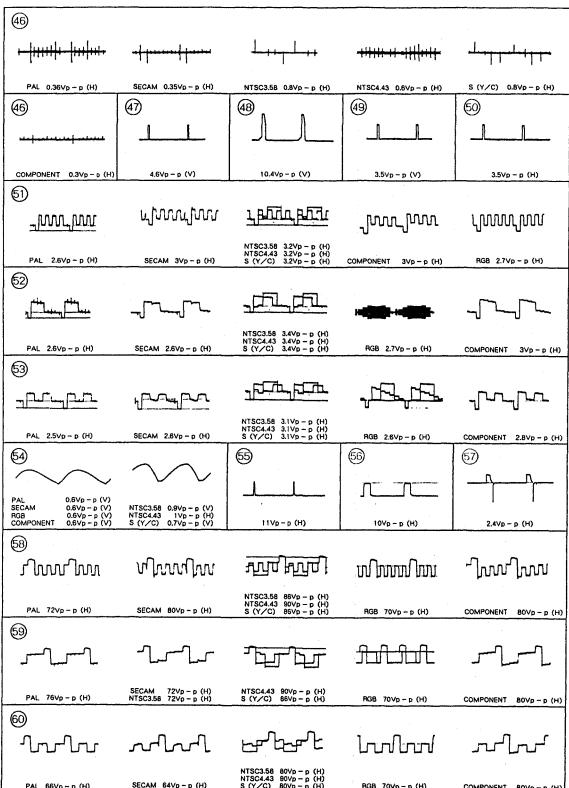
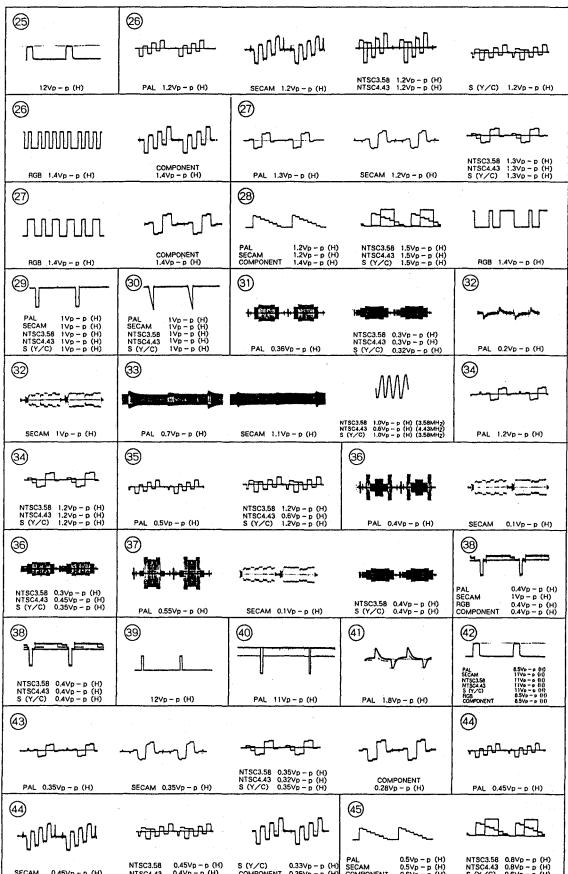
## — B Board —

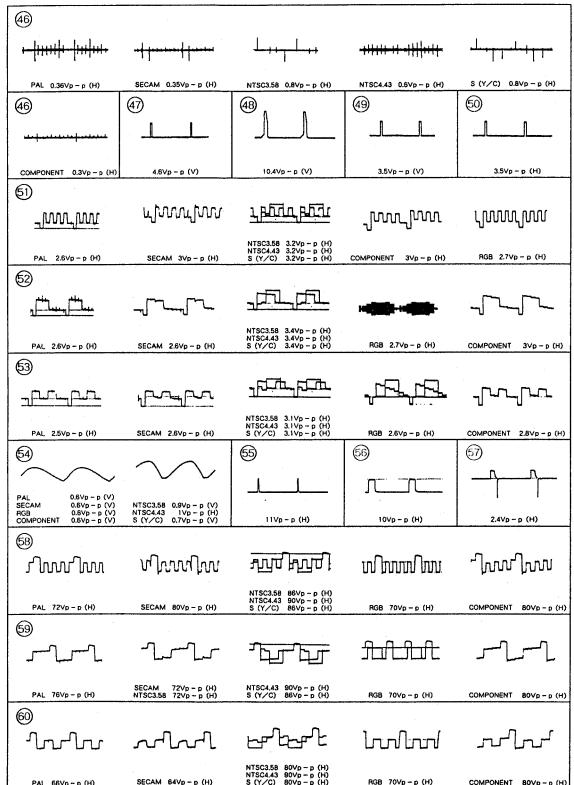
## X &lt; TRANSISTOR &gt;

	PAL	SECAM	NTSC 3.58	NTSC 4.43	S (Y/C)	ANALOG RGB	COMPONENT
Q113	E 0.5	0.5	0.5	0.5	0.5	0.5	0.5
B	1.0	1.0	0.9	0.9	0.9	0.9	0.9
Q115	E 11.2	8.3	9.0	16.6	9.0	5.0	0.0
B	2.2	0.1	2.4	0.1	0.1	0.0	0.0
Q118	E 0.0	0.0	1.7	1.7	1.7	1.7	1.7
Q119	B	0.1	0.0	1.7	1.7	1.7	1.7
Q121	E	0.0	0.0	1.7	1.7	1.7	1.7
Q122	E	0.0	0.0	1.7	1.7	1.7	1.7
Q136	E 4.3	4.3	4.4	4.4	4.5	4.4	4.4
B	3.7	3.7	3.8	3.8	3.9	3.8	3.8
Q132	E 2.3	2.3	2.4	2.4	2.4	2.4	2.4
C	1.8	1.7	1.7	1.7	1.8	1.8	1.8
B	2.7	2.7	2.8	2.7	2.8	2.7	2.8
Q145	E 117.0	115.5	111.8	112.0	115.0	114.1	114.1
C	128.0	125.5	120.3	123.4	122.8	124.8	124.8
B	119.0	119.0	110.5	118.4	118.2	114.2	114.2
Q148	E 86.1	84.9	81.2	83.4	82.8	82.5	82.2
B	94.0	93.3	89.3	92.4	92.1	84.2	80.8
Q149	E 10.8	10.5	10.8	10.8	10.9	10.9	11.0
C	8.8	8.8	8.8	8.8	8.8	8.8	8.8
B	90.7	91.4	88.0	87.9	87.0	86.5	88.4
Q151	E 89.2	88.9	86.5	88.4	85.3	84.9	84.7
B	92.2	92.7	100.2	96.5	92.4	90.5	88.8
Q152	E 88.1	88.6	92.8	82.8	82.9	82.8	82.7
C	10.8	10.5	9.7	10.9	10.9	10.9	11.0
B	90.5	92.2	90.1	89.7	89.1	88.7	88.5
Q155	E 88.3	88.5	85.7	85.7	85.6	84.8	83.0
B	82.4	81.1	87.5	78.9	78.9	78.8	78.4
Q156	E 1.0	1.5	1.3	1.8	1.7	1.7	1.7
B	2.1	2.0	1.8	2.1	2.2	2.2	2.2
Q158	E 1.0	1.9	1.3	1.8	1.7	1.7	1.7
B	2.0	1.9	1.8	2.1	2.2	2.2	2.2
Q163	E 0.2	0.8	2.7	0.5	-0.5	-0.7	-0.6
B	0.9	0.9	0.8	1.0	1.0	1.0	1.0
Q168	C 2.1	2.0	1.8	2.3	2.2	2.1	2.2
Q170	B 2.3	2.3	2.1	2.4	2.4	2.4	2.4
Q172	B 2.2	2.1	1.9	2.2	2.3	2.2	2.3
Q173	E 1.4	1.4	1.4	1.7	1.7	1.7	1.7
Q174	E 2.1	2.0	1.8	2.1	2.2	2.2	2.2
B	1.0	1.5	1.3	1.6	1.6	1.7	1.7
Q178	B 6.2	8.3	8.2	6.3	6.1	6.2	6.2
Q209	E 83.4	81.5	87.0	80.3	80.4	80.4	76.8
C 115.6	113.2	110.7	113.2	113.8	114.5	114.2	114.2
E 86.5	86.5	86.5	86.5	84.3	84.2	83.8	83.8
Q210	E 116.5	114.2	111.5	113.9	114.5	115.1	114.0
C 115.9	113.6	111.7	113.3	113.8	114.5	114.3	114.3

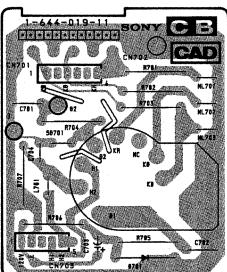
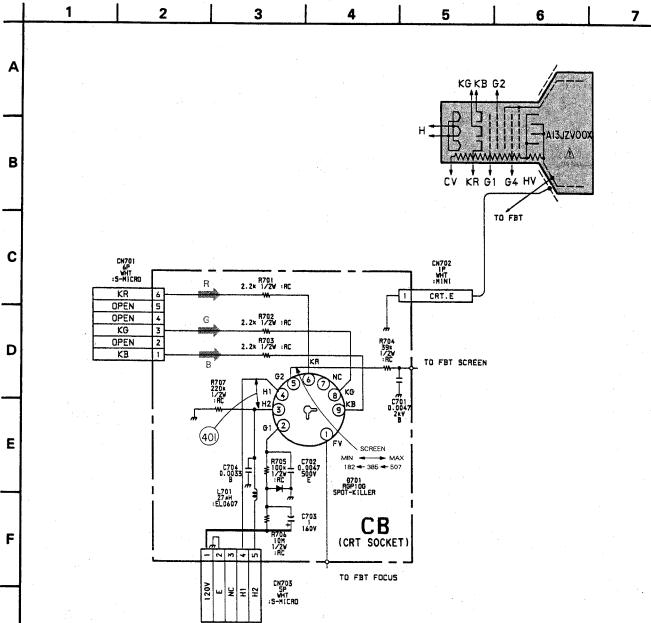
## • B BOARD WAVEFORMS



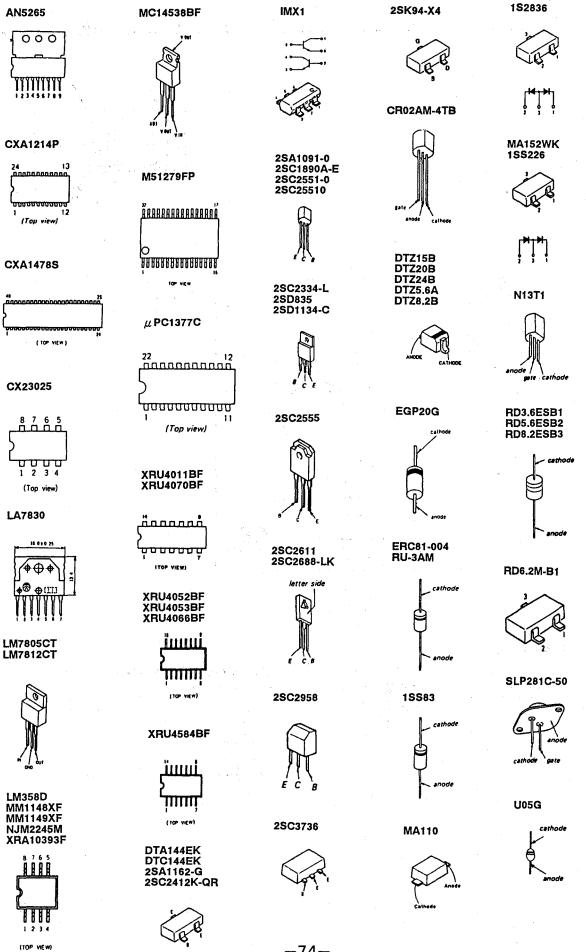




**CB** [CRT SOCKET]



## 6-6. SEMICONDUCTORS



NOTE:  
 1. Use  
 2. cri;  
 3. are  
 4. The  
 5. num;  
 6. Iter  
 7. they  
 8. when  
 9. 7-1.  
 10. ●;●  
 11. ▲;▲  
 12. ■;■  
 13. ○;○  
 14. △;△



6

REF. NO. P

1	X
2	#4
3	#4
4	#4
5	4
6	#4
7	1
8	#1
9	1
10	1
11	X
12	#4
13	#4
14	#4
15	4

## SECTION 7 EXPLODED VIEWS

## NOTE:

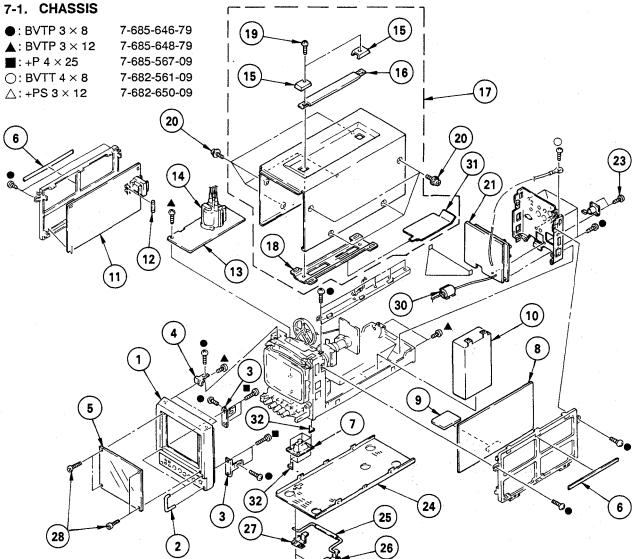
- Items with no part number and no description are standard parts which may be soldered required for routine service.
- The construction parts of an assembled part are indicated with a colation number in the part number column.
- Items marked with "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by the asterisk mark \* are critical for safety.  
Replace only with part number specified.

Les composants identifiés par un astérisque sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.

## 7-1. CHASSIS

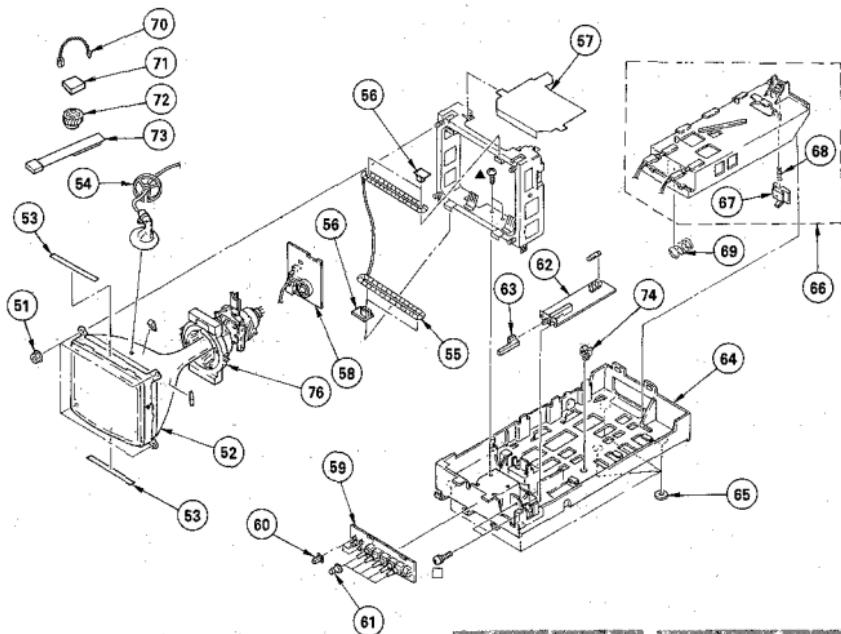
●: BVTP 3 × 8	7-685-646-79
▲: BVTP 3 × 12	7-685-648-79
■: +P 4 × 25	7-685-567-09
○: BVTT 4 × 8	7-682-561-09
△: +PS 3 × 12	7-682-650-09



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
1	X-4030-437-1	BEZEL ASSY		16	3-419-372-31	HANDLE	
2	4-034-844-01	HANDLE, PROTECTOR		17	X-4039-439-1	CABINET ASSY	15, 16, 17, 18, 19, 31
3	*4-034-845-01	BRACKET (L), BEZEL	*	18	*4-034-473-1	REINFORCEMENT ASSY, HANDLE	
4	*4-034-846-01	BRACKET (R), BEZEL	*	19	4-034-461-01	SCREW (SHEAR)	
5	4-036-714-01	PROTECTOR		20	4-034-834-01	SCREW (CLAW) (X4G), CASE	
6	*4-035-691-01	CLOTH, VIBRATION PROOF		21	*4-1275-104-A	QB BOARD, COMPLETE	
7	4-034-251-11	BOARD, COMPLETE		22	*4-036-721-01	CHASSIS (R)	
8	4-036-726-01	B BOARD, COMPLETE		23	4-035-802-01	SCREW (M2.6X.6)	
9	*4-1394-392-A	S BOARD, COMPLETE		24	*4-036-723-01	CABINET, BOTTOM	
10	A-413-720-21	SWITCHING REGULATOR (SOP5-1021)		25	4-036-695-01	STAND	
11	*4-1346-067-A	D BOARD, COMPLETS		26	4-036-699-01	BRACKET (B), STAND	
12	4-036-232-11	FUSE (15A.C.) (56/250V)		27	4-036-697-01	BOARD, STAND	
13	*A-1195-057-A	P BOARD, COMPLETE		28	4-391-849-01	SCREW (3X12), TAPPING	
14	A-1439-526-11	TRANSFORMER ASSY, FLYBACK		30	1-543-925-11	CORE, FERRITE	
15	4-034-847-01	HANDLE (BASE)		31	4-037-556-01	INSULATOR (FET)	
				32	4-037-348-01	CUSHION, SPEAKER	

## 7-2. PICTURE TUBE

▲: BVTP 3 x 12. 7-685-648-79  
 □: PSW 3 x 10 7-682-649-09



The components identified by shading and mark ▲ are critical for safety.  
 Replace only with part number specified.

Les composants identifiés par une tache et une marque ▲ sont critiques pour la sécurité.  
 Ne les remplacer que par une pièce portant le numéro spécifié.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
51	4-304-511-00	FLANGE NUT, 5MM		66	*X-4030-163-1	GUIDE ASSY, BATTERY	67, 68
52	4-036-733-02-05	CRT TUBE		67	4-034-861-01	KNOB, BATTERY	
53	4-036-700-01	CLOTH, PROTECTION		68	4-876-347-01	SPRING, COMPRESSION	
54	*4-034-856-01	HOLDER, HV CABLE		69	3-669-594-00	SPRING, COMPRESSION	
55	*A-1426-614-11	COLLAR, DEMAGNETIZATION		70	4-308-870-00	CLIP, LEAD WIRE	
56	4-380-534-01	CAP, DGC		71	1-452-126-11	MAGNET	
57	*4-036-713-01	INSULATOR		72	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM	
58	*1-644-019-11	CB BOARD		73	X-4308-815-0	PERMALLOY ASSY, CONVERGENCE	
59	*1-644-020-11	HR BOARD		74	*4-314-320-00	HOLDER, WIRE	
60	4-034-849-01	SWITCH (SMALL), PUSH		76	*A-1-451-325-11	DEFLECTION YUKE (Y063JVA2)	
61	X-4030-162-1	KNOB ASSY, CONTROL					
62	*1-644-021-11	FC BOARD					
63	4-034-841-01	SWITCH, POWER					
64	*X-4030-438-1	CHASSIS ASSY, BOTTOM					
65	4-034-840-01	RUBBER, FOOT					

## SECTION 8

### ELECTRICAL PARTS LIST

## NOTE:

The components identified by **■** shading and mark **▲** are critical for safety. Replace only with part number specified.

Les composants identifiés par une forme et une marque **▲** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

When indicating parts by reference number, please include the board name.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

**RESISTORS**  
• All resistors are in ohms  
• F : nonflammable

**CAPACITORS**      **COILS**  
• MF :  $\mu$ F, PF :  $\mu\mu$ F      • MΩ : mH, UH :  $\mu$ H

The components identified by **■** in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
*A-1135-726-A	B BOARD, COMPLETE			C146	1-126-157-11	ELECT	10MF 20%
	*****			C147	1-164-232-11	CERAMIC CHIP	0.01MF 10%
*3-738-015-01	COVER, (DIA. 6) CARBON VR			C148	1-126-160-11	ELECT	1MF 20%
	<FILTER>			C149	1-163-022-00	CERAMIC CHIP	0.012MF 10%
BPF101	I-236-363-11	FILTER, BAND PASS		C150	1-124-589-11	ELECT	47MF 20%
BPF102	I-236-364-11	FILTER, BAND PASS		C151	1-163-131-00	CERAMIC CHIP	390PF 5%
	<CAPACITOR>			C152	1-163-101-00	CERAMIC CHIP	22PF 5%
C101	I-124-589-11	ELECT	47MF 20% 16V	C153	1-163-125-00	CERAMIC CHIP	220PF 5%
C102	I-163-031-11	CERAMIC CHIP	0.01MF 50V	C154	1-163-031-11	CERAMIC CHIP	0.01MF 50V
C103	I-126-157-11	ELECT	10MF 20% 16V	C155	1-163-133-00	CERAMIC CHIP	470PF 5%
C106	I-124-477-11	ELECT	47NF 20% 16V	C156	1-164-299-11	CERAMIC CHIP	0.22MF 10% 25V
C107	I-163-031-11	CERAMIC CHIP	0.01MF 50V	C157	1-163-229-11	CERAMIC CHIP	12PF 5%
C108	I-124-477-11	ELECT	47NF 20% 16V	C158	1-124-477-11	ELECT	47MF 20% 16V
C109	I-124-477-11	ELECT	47NF 20% 16V	C159	1-163-229-11	CERAMIC CHIP	12PF 5%
C110	I-126-120-11	ELECT	220MF 20% 16V	C160	1-163-229-11	CERAMIC CHIP	12PF 5%
C111	I-163-031-11	CERAMIC CHIP	0.01MF 50V	C161	1-124-902-00	ELECT	0.47MF 20% 50V
C112	I-163-031-11	CERAMIC CHIP	0.01MF 50V	C162	1-124-903-11	ELECT	1MF 20% 50V
C113	I-163-031-11	CERAMIC CHIP	0.01MF 50V	C163	1-163-809-11	CERAMIC CHIP	0.047MF 10% 25V
C114	I-124-477-11	ELECT	47NF 20% 16V	C164	1-163-809-11	CERAMIC CHIP	0.047MF 10% 25V
C115	I-163-031-11	CERAMIC CHIP	0.01MF 50V	C165	1-163-809-11	CERAMIC CHIP	0.001MF 10% 50V
C116	I-124-589-11	ELECT	47NF 20% 16V	C166	1-163-031-11	CERAMIC CHIP	0.01MF 50V
C117	I-126-154-11	ELECT	47NF 20% 6.3V	C167	1-124-477-11	ELECT	47MF 20% 16V
C118	I-126-154-11	ELECT	47NF 20% 6.3V	C168	1-163-031-11	CERAMIC CHIP	0.01MF 50V
C119	I-163-031-11	CERAMIC CHIP	0.01MF 50V	C169	1-163-243-11	CERAMIC CHIP	47PF 5%
C120	I-126-154-11	ELECT	47NF 20% 6.3V	C170	1-163-129-11	CERAMIC CHIP	530PF 5%
C121	I-124-477-11	ELECT	47NF 20% 16V	C171	1-163-243-11	CERAMIC CHIP	47PF 5%
C122	I-124-477-11	ELECT	47NF 20% 16V	C172	1-163-129-00	CERAMIC CHIP	530PF 5%
C123	I-163-031-11	CERAMIC CHIP	0.01MF 50V	C173	1-124-809-11	ELECT	47MF 20% 16V
C125	I-126-154-11	ELECT	47NF 20% 6.3V	C174	1-124-477-11	ELECT	47MF 20% 16V
C126	I-163-031-11	CERAMIC CHIP	0.01MF 50V	C175	1-108-792-11	MYLAR	0.001MF 5%
C127	I-126-154-11	ELECT	47NF 20% 6.3V	C176	1-163-031-11	CERAMIC CHIP	0.01MF 50V
C128	I-126-154-11	ELECT	47NF 20% 6.3V	C177	1-163-031-11	CERAMIC CHIP	0.01MF 50V
C129	I-163-031-11	CERAMIC CHIP	0.01MF 50V	C178	1-163-031-11	CERAMIC CHIP	0.01MF 50V
C130	I-163-031-11	CERAMIC CHIP	0.01MF 50V	C179	1-126-160-11	ELECT	1MF 20% 50V
C131	I-163-031-11	CERAMIC CHIP	0.01MF 50V	C180	1-163-031-11	CERAMIC CHIP	0.01MF 50V
C132	I-124-589-11	ELECT	47NF 20% 16V	C181	1-126-154-11	ELECT	47MF 20% 6.3V
C133	I-124-589-11	ELECT	47NF 20% 16V	C182	1-126-163-11	ELECT	4.7MF 20% 16V
C134	I-163-275-11	CERAMIC CHIP	0.001MF 5%	C183	1-164-232-11	CERAMIC CHIP	0.01MF 10%
C135	I-163-113-00	CERAMIC CHIP	68PF 5% 50V	C184	1-163-031-11	CERAMIC CHIP	0.01MF 50V
C137	I-163-115-00	CERAMIC CHIP	82PF 5% 50V	C185	1-163-031-11	CERAMIC CHIP	0.01MF 50V
C138	I-124-589-11	ELECT	47NF 20% 16V	C186	1-163-099-00	CERAMIC CHIP	18PF 5%
C139	I-163-031-11	CERAMIC CHIP	0.01MF 50V	C187	1-163-031-11	CERAMIC CHIP	0.01MF 50V
C140	I-163-205-00	CERAMIC CHIP	0.001MF 5%	C188	1-163-031-11	CERAMIC CHIP	0.01MF 50V
C141	I-163-141-00	CERAMIC CHIP	0.001MF 5% 50V	C189	1-163-025-00	CERAMIC CHIP	0.047MF 5%
C142	I-163-031-11	CERAMIC CHIP	0.01MF 50V	C190	1-163-121-00	CERAMIC CHIP	150PF 5%
C143	I-163-121-00	CERAMIC CHIP	150PF 5% 50V	C191	1-163-031-11	CERAMIC CHIP	0.01MF 50V
C144	I-163-101-00	CERAMIC CHIP	22PF 5% 50V	C192	1-163-031-11	CERAMIC CHIP	0.01MF 50V
C145	I-163-131-00	CERAMIC CHIP	390PF 5% 50V	C193	1-124-589-11	ELECT	47MF 20% 16V
				C194	1-124-589-11	ELECT	47MF 20% 16V
				C195	1-124-589-11	ELECT	47MF 20% 16V



### <FILTER BLOCK>

B

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION
<CONNECTOR>						
CN101	1-506-478-11	PIN, CONNECTOR 13P		D148	8-719-404-46	DIODE MA110
CN102	*1-564-506-11	PLUG, CONNECTOR 3P		D149	8-719-404-46	DIODE MA110
CN103	*1-565-503-11	CONNECTOR, BOARD TO BOARD 12P		D150	8-719-404-46	DIODE MA110
CN104	1-506-477-11	PIN, CONNECTOR 12P		D152	8-719-404-46	DIODE MA110
CN105	*1-564-509-11	PLUG, CONNECTOR 6P		D153	8-719-977-20	DIODE PTZ8.2B
CN107	1-506-478-11	PIN, CONNECTOR 13P		D154	8-719-404-46	DIODE MA110
<TRAP MODULE>						
CTR101	1-236-366-11	MODULE, TRAP		D155	8-719-404-46	DIODE MA110
CTR102	i-236-365-11	MODULE, TRAP		D156	8-719-404-46	DIODE MA110
<TRIMMER>						
CV101	1-141-418-11	CAP, ADJ		D157	8-719-901-83	DIODE ISS83
CV102	1-141-418-11	CAP, ADJ		D158	8-719-901-83	DIODE ISS83
<DIODE>						
D101	8-719-404-46	DIODE MA110		D159	8-719-901-83	DIODE ISS83
D102	8-719-404-46	DIODE MA110		D160	8-719-404-46	DIODE MA110
D104	8-719-404-46	DIODE MA110		D161	8-719-404-46	DIODE MA110
D105	8-719-404-46	DIODE MA110		D162	8-719-404-46	DIODE MA110
D106	8-719-404-46	DIODE MA110		D170	8-719-404-46	DIODE MA110
D107	8-719-404-46	DIODE MA110		D171	8-719-404-46	DIODE MA110
D108	8-719-404-46	DIODE MA110		D172	8-719-404-46	DIODE MA110
D109	8-719-404-46	DIODE MA110		D285	8-719-404-46	DIODE MA110
D110	8-719-404-46	DIODE MA110		D289	8-719-404-46	DIODE MA110
D111	8-719-404-46	DIODE MA110		D341	8-719-404-46	DIODE MA110
D112	8-719-404-46	DIODE MA110		D342	8-719-104-34	DIODE IS2836
D113	8-719-404-46	DIODE MA110		D343	8-719-800-76	DIODE ISS226
D114	8-719-404-46	DIODE MA110		D344	8-719-105-XX	DIODE RD6..B1
D115	8-719-404-46	DIODE MA110		D345	8-719-901-83	DIODE ISS83
D116	8-719-404-46	DIODE MA110		D346	8-719-901-83	DIODE ISS83
D117	8-719-404-46	DIODE MA110		D347	8-719-901-83	DIODE ISS83
<DELAY LINE>						
DL101	1-415-632-11	DELAY LINE, Y		<IC>		
D118	8-719-404-46	DIODE MA110		IC102	8-759-501-21	IC MM1149XF
D119	8-719-404-46	DIODE MA110		IC103	8-759-501-21	IC MM1149XP
D120	8-719-404-46	DIODE MA110		IC104	8-759-648-09	IC MM1148XF
D121	8-719-404-46	DIODE MA110		IC105	8-759-648-09	IC MM1148XP
D122	8-719-404-46	DIODE MA110		IC106	8-759-009-51	IC MC14538BF
D123	8-719-404-46	DIODE MA110		<IC>		
D125	8-719-404-46	DIODE MA110		IC107	8-759-509-57	IC XRU4705BF
D126	8-719-404-46	DIODE MA110		IC108	8-759-509-17	IC XRU4053BF
D127	8-719-404-46	DIODE MA110		IC109	8-759-509-37	IC XRU4070BF
D128	8-719-400-18	DIODE MA152WK		IC110	8-759-509-17	IC XRU4053BF
D129	8-719-404-46	DIODE MA110		IC111	8-759-509-17	IC XRU4053BF
D130	8-719-800-76	DIODE ISS226		<IC>		
D131	8-719-800-76	DIODE ISS226		IC112	8-759-924-12	IC LM7805CT
D132	8-719-800-76	DIODE ISS226		IC113	8-759-631-08	IC M51279PF
D133	8-719-404-46	DIODE MA110		IC114	8-759-509-13	IC XRU4052BF
D134	8-719-404-46	DIODE MA110		IC115	8-759-509-13	IC XRU4052BF
D135	8-719-404-46	DIODE MA110		IC116	8-759-509-05	IC XRU4066BF
D136	8-719-404-46	DIODE MA110		<IC>		
D137	8-719-404-46	DIODE MA110		IC117	8-759-711-32	IC XJM2245M
D138	8-719-404-46	DIODE MA110		IC118	8-759-711-32	IC XJM2245M
D139	8-719-404-46	DIODE MA110		IC119	8-759-711-32	IC XJM2245M
D142	8-719-404-46	DIODE MA110		IC120	8-759-509-05	IC XRU4066BF
D143	8-719-404-46	DIODE MA110		IC121	8-759-509-17	IC XRU4053BF
D144	8-719-404-46	DIODE MA110		<IC>		
D145	8-719-404-46	DIODE MA110		IC122	8-759-998-98	IC LM358D
D146	8-719-404-46	DIODE MA110		IC123	8-759-998-98	IC LM358D
D147	8-719-404-46	DIODE MA110		IC124	8-752-052-62	IC XCA174
D148	8-719-404-46	DIODE MA110		IC125	8-759-509-05	IC XRU4066BF
D149	8-719-404-46	DIODE MA110		IC126	8-759-509-17	IC XRU4053BF

B

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
I127	8-759-998-98	IC LM358D		Q141	8-729-920-74	TRANSISTOR 2SC2412K-QR	
I128	8-759-998-98	IC LM358D		Q142	8-729-920-74	TRANSISTOR 2SC2412K-QR	
I129	8-759-998-98	IC LM358D		Q143	8-729-920-74	TRANSISTOR 2SC2412K-QR	
<COIL>							
L101	I-410-470-11	INDUCTOR 10UH		Q144	8-729-920-74	TRANSISTOR 2SC2412K-QR	
L102	I-410-090-41	INDUCTOR 18MHM		Q145	8-729-920-74	TRANSISTOR 2SC2412K-QR	
L103	I-412-002-31	INDUCTOR CHIP 4.7UH		Q146	8-729-255-12	TRANSISTOR 2SC2551-0	
L104	I-412-002-31	INDUCTOR CHIP 4.7UH		Q147	8-729-255-12	TRANSISTOR 2SC2551-0	
L105	I-412-002-31	INDUCTOR CHIP 4.7UH		Q148	8-729-216-22	TRANSISTOR 2SA1162-G	
L106	I-410-470-11	INDUCTOR 10UH		Q149	8-729-200-17	TRANSISTOR 2SA1091-0	
L107	I-410-470-11	INDUCTOR 10UH		Q150	8-729-920-74	TRANSISTOR 2SC2412K-QR	
L108	I-408-418-00	INDUCTOR 56UH		Q151	8-729-216-22	TRANSISTOR 2SA1162-G	
L109	I-408-418-00	INDUCTOR 56UH		Q152	8-729-200-17	TRANSISTOR 2SA1091-0	
L110	I-408-418-00	INDUCTOR 56UH		Q153	8-729-920-74	TRANSISTOR 2SC2412K-QR	
L112	I-408-419-00	INDUCTOR 68UH		Q154	8-729-216-22	TRANSISTOR 2SA1162-G	
L116	I-412-011-31	INDUCTOR CHIP 27UH		Q155	8-729-200-17	TRANSISTOR 2SA1091-0	
L117	I-412-011-31	INDUCTOR CHIP 27UH		Q157	8-729-326-11	TRANSISTOR 2SC2611	
L118	I-412-011-31	INDUCTOR CHIP 27UH		Q158	8-729-326-11	TRANSISTOR 2SC2611	
L250	I-410-997-31	INDUCTOR CHIP 2.2UH		Q159	8-729-326-11	TRANSISTOR 2SC2611	
L251	I-410-999-11	INDUCTOR CHIP 3.3UH		Q160	8-729-920-74	TRANSISTOR 2SC2412K-QR	
L252	I-410-478-11	INDUCTOR 47UH		Q161	8-729-216-22	TRANSISTOR 2SA1162-G	
L300	I-410-482-31	INDUCTOR 100UH		Q162	8-729-920-74	TRANSISTOR 2SC2412K-QR	
<TRANSISTOR>							
Q101	8-729-920-74	TRANSISTOR 2SC2412K-QR		Q163	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q102	8-729-920-74	TRANSISTOR 2SC2412K-QR		Q164	8-729-901-01	TRANSISTOR DTC144EK	
Q103	8-729-920-74	TRANSISTOR 2SC2412K-QR		Q165	8-729-216-22	TRANSISTOR 2SA1162-G	
Q104	8-729-920-74	TRANSISTOR 2SC2412K-QR		Q166	8-729-216-22	TRANSISTOR 2SA1162-G	
Q105	8-729-920-74	TRANSISTOR 2SC2412K-QR		Q167	8-729-216-22	TRANSISTOR 2SA1162-G	
Q107	8-729-920-74	TRANSISTOR 2SC2412K-QR		Q168	8-729-216-22	TRANSISTOR 2SA1162-G	
Q108	8-729-216-22	TRANSISTOR 2SA1162-G		Q170	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q109	8-729-901-01	TRANSISTOR DTC144EK		Q171	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q112	8-729-920-74	TRANSISTOR 2SC2412K-QR		Q172	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q113	8-729-920-74	TRANSISTOR 2SC2412K-QR		Q173	8-729-216-22	TRANSISTOR 2SA1162-G	
Q114	8-729-216-22	TRANSISTOR 2SA1162-G		Q174	8-729-216-22	TRANSISTOR 2SA1162-G	
Q115	8-729-920-74	TRANSISTOR 2SC2412K-QR		Q175	8-729-216-22	TRANSISTOR 2SA1162-G	
Q116	8-729-920-74	TRANSISTOR 2SC2412K-QR		Q176	8-729-216-22	TRANSISTOR 2SA1162-G	
Q117	8-729-216-22	TRANSISTOR 2SA1162-G		Q177	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q118	8-729-920-74	TRANSISTOR 2SC2412K-QR		Q179	8-729-901-01	TRANSISTOR DTC144EK	
Q119	8-729-216-22	TRANSISTOR 2SA1162-G		Q190	8-729-216-22	TRANSISTOR 2SA1162-G	
Q120	8-729-216-22	TRANSISTOR 2SA1162-G		Q191	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q121	8-729-920-74	TRANSISTOR 2SC2412K-QR		Q192	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q122	8-729-216-22	TRANSISTOR 2SA1162-G		Q193	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q123	8-729-920-74	TRANSISTOR 2SC2412K-QR		Q194	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q124	8-729-216-22	TRANSISTOR 2SA1162-G		Q195	8-729-216-22	TRANSISTOR 2SA1162-G	
Q125	8-729-920-74	TRANSISTOR 2SC2412K-QR		Q196	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q126	8-729-901-01	TRANSISTOR DTC144EK		Q197	8-729-216-22	TRANSISTOR 2SA1162-G	
Q127	8-729-216-22	TRANSISTOR 2SA1162-G		Q198	8-729-216-22	TRANSISTOR 2SA1162-G	
Q128	8-729-216-22	TRANSISTOR 2SA1162-G		Q199	8-729-216-22	TRANSISTOR 2SA1162-G	
Q129	8-729-901-01	TRANSISTOR DTC144EK		Q200	8-729-901-01	TRANSISTOR DTC144EK	
Q30	8-729-216-22	TRANSISTOR 2SA1162-G		Q201	8-729-216-22	TRANSISTOR 2SA1162-G	
Q31	8-729-920-74	TRANSISTOR 2SC2412K-QR		Q202	8-729-216-22	TRANSISTOR 2SA1162-G	
Q32	8-729-216-22	TRANSISTOR 2SA1162-G		Q203	8-729-216-22	TRANSISTOR 2SA1162-G	
Q33	8-729-920-74	TRANSISTOR 2SC2412K-QR		Q204	8-729-216-22	TRANSISTOR 2SA1162-G	
Q34	8-729-901-01	TRANSISTOR DTC144EK		Q205	8-729-216-22	TRANSISTOR 2SA1162-G	
Q35	8-729-920-74	TRANSISTOR 2SC2412K-QR		Q206	8-729-216-22	TRANSISTOR 2SA1162-G	
Q36	8-729-907-26	TRANSISTOR IMX1		Q208	8-729-216-22	TRANSISTOR 2SA1162-G	
Q37	8-729-907-26	TRANSISTOR IMX1		Q209	8-729-255-12	TRANSISTOR 2SC2551-0	
Q38	8-729-907-26	TRANSISTOR IMX1		Q210	8-729-255-12	TRANSISTOR 2SC2551-0	
Q39	8-729-216-22	TRANSISTOR 2SA1162-G		Q211	8-729-255-12	TRANSISTOR 2SC2551-0	
Q40	8-729-920-74	TRANSISTOR 2SC2412K-QR		Q212	8-729-109-44	TRANSISTOR 2SK94-X4	
<RESISTOR>							
JR101	1-216-295-00	METAL GLAZE	0	Q299	8-729-920-74	TRANSISTOR 2SC2412K-QR	
JR100			5%				1/104

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
JR105	1-216-295-00	METAL GLAZE	0 5% 1/10W	B174	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
JR118	1-216-295-00	METAL GLAZE	0 5% 1/10W	B175	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
JR132	1-216-295-00	METAL GLAZE	0 5% 1/10W	B176	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
JR133	1-216-295-00	METAL GLAZE	0 5% 1/10W	B177	1-216-073-00	METAL GLAZE	10K 5% 1/10W
JR178	1-216-295-00	METAL GLAZE	0 5% 1/10W	B178	1-216-089-00	METAL GLAZE	47K 5% 1/10W
L113	1-216-296-00	METAL GLAZE	0 5% 1/8W	B179	1-216-081-00	METAL GLAZE	22K 5% 1/10W
L114	1-216-296-00	METAL GLAZE	0 5% 1/8W	B180	1-216-679-11	METAL CHIP	15K 0.50% 1/10W
L115	1-216-296-00	METAL GLAZE	0 5% 1/8W	B181	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R101	1-216-089-00	METAL GLAZE	47K 5% 1/10W	B182	1-216-683-11	METAL CHIP	22K 0.50% 1/10W
R102	1-216-025-00	METAL GLAZE	100 5% 1/10W	B183	1-216-691-11	METAL CHIP	47K 0.50% 1/10W
R103	1-216-091-00	METAL GLAZE	56K 5% 1/10W	B184	1-216-699-11	METAL CHIP	100K 0.50% 1/10W
R104	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	B185	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R105	1-216-025-00	METAL GLAZE	100 5% 1/10W	B186	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R106	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	B187	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R107	1-216-025-00	METAL GLAZE	100 5% 1/10W	B188	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R108	1-216-113-00	METAL GLAZE	470K 5% 1/10W	B189	1-216-103-00	METAL GLAZE	180K 5% 1/10W
R109	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	B190	1-216-107-00	METAL GLAZE	270K 5% 1/10W
R110	1-216-049-00	METAL GLAZE	1K 5% 1/10W	B191	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R111	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	B192	1-216-103-00	METAL GLAZE	180K 5% 1/10W
R112	1-216-049-00	METAL GLAZE	1K 5% 1/10W	B193	1-216-105-00	METAL GLAZE	220K 5% 1/10W
B113	1-249-401-11	CARBON	47 5% 1/4W F	B194	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R114	1-216-045-00	METAL GLAZE	680 5% 1/10W	B195	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R115	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	B196	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R117	1-216-073-00	METAL GLAZE	10K 5% 1/10W	B197	1-216-671-11	METAL CHIP	6.8K 0.50% 1/10W
R118	1-216-025-00	METAL GLAZE	100 5% 1/10W	B198	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R119	1-216-647-11	METAL CHIP	680 0.50% 1/10W	B199	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R120	1-216-647-11	METAL CHIP	680 0.50% 1/10W	R200	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R121	1-216-025-00	METAL GLAZE	100 5% 1/10W	R201	1-216-043-00	METAL GLAZE	560 5% 1/10W
R123	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R202	1-216-033-00	METAL GLAZE	220 5% 1/10W
R124	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R203	1-216-045-00	METAL GLAZE	680 5% 1/10W
R125	1-216-083-00	METAL GLAZE	27K 5% 1/10W	R204	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R126	1-216-093-00	METAL GLAZE	68K 5% 1/10W	R205	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R127	1-216-037-00	METAL GLAZE	330 5% 1/10W	R206	1-216-043-00	METAL GLAZE	560 5% 1/10W
R128	1-216-083-00	METAL GLAZE	27K 5% 1/10W	R207	1-216-045-00	METAL GLAZE	680 5% 1/10W
R129	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R208	1-216-671-11	METAL CHIP	6.8K 0.50% 1/10W
R130	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R209	1-216-043-00	METAL GLAZE	560 5% 1/10W
R136	1-216-091-00	METAL GLAZE	56K 5% 1/10W	R210	1-216-033-00	METAL GLAZE	220 5% 1/10W
R137	1-216-045-00	METAL GLAZE	680 5% 1/10W	R211	1-216-099-00	METAL GLAZE	120K 5% 1/10W
R138	1-216-657-11	METAL CHIP	1.3K 0.50% 1/10W	R212	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R139	1-216-079-00	METAL GLAZE	18K 5% 1/10W	R213	1-216-043-00	METAL GLAZE	560 5% 1/10W
R140	1-216-653-11	METAL CHIP	1.2K 0.50% 1/10W	R214	1-216-043-00	METAL GLAZE	560 5% 1/10W
R141	1-216-063-00	METAL GLAZE	5.9K 5% 1/10W	R215	1-216-125-00	METAL GLAZE	1.5M 5% 1/10W
R142	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R216	1-216-043-00	METAL GLAZE	560 5% 1/10W
R143	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R217	1-216-033-00	METAL GLAZE	220 5% 1/10W
R144	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R218	1-216-295-00	METAL GLAZE	0 5% 1/10W
R145	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R219	1-216-043-00	METAL GLAZE	560 5% 1/10W
R146	1-216-037-00	METAL GLAZE	330 5% 1/10W	R220	1-216-043-00	METAL GLAZE	560 5% 1/10W
R148	1-216-671-11	METAL CHIP	6.8K 0.50% 1/10W	R221	1-216-035-00	METAL GLAZE	270 5% 1/10W
R155	1-216-655-11	METAL CHIP	1.5K 0.50% 1/10W	R222	1-216-033-00	METAL GLAZE	220 5% 1/10W
R157	1-216-679-11	METAL CHIP	15K 0.50% 1/10W	R223	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R158	1-216-677-11	METAL CHIP	12K 0.50% 1/10W	R224	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R160	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R225	1-216-095-00	METAL GLAZE	82K 5% 1/10W
R161	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R226	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R163	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R227	1-216-035-00	METAL GLAZE	270 5% 1/10W
R164	1-216-677-11	METAL CHIP	12K 0.50% 1/10W	R228	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R165	1-216-107-00	METAL GLAZE	270K 5% 1/10W	R229	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R166	1-216-681-11	METAL CHIP	18K 0.50% 1/10W	R230	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R167	1-216-635-11	METAL CHIP	220 0.50% 1/10W	R231	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R168	1-216-103-00	METAL GLAZE	180K 5% 1/10W	R232	1-216-105-00	METAL GLAZE	220 5% 1/10W
R169	1-216-033-00	METAL GLAZE	220 5% 1/10W	R233	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R170	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R234	1-216-041-00	METAL GLAZE	470 5% 1/10W
R171	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R235	1-216-041-00	METAL GLAZE	470 5% 1/10W
R172	1-216-043-00	METAL GLAZE	560 5% 1/10W	R236	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R173	1-216-033-00	METAL GLAZE	68K 5% 1/10W				

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK		
R237	1-216-025-00	METAL GLAZE	100 5%	1/10W	R305	1-216-049-00	METAL GLAZE	1K 5%	1/10W
R238	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W	R306	1-216-089-00	METAL GLAZE	47K 5%	1/10W
R239	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W	R307	1-216-033-00	METAL GLAZE	220 5%	1/10W
R240	1-216-033-00	METAL GLAZE	220 5%	1/10W	R308	1-216-089-00	METAL GLAZE	47K 5%	1/10W
R241	1-216-073-00	METAL GLAZE	100 5%	1/10W	R309	1-216-089-00	METAL GLAZE	47K 5%	1/10W
R242	1-216-051-00	METAL GLAZE	1.2K 5%	1/10W	R310	1-216-033-00	METAL GLAZE	220 5%	1/10W
R243	1-216-113-00	METAL GLAZE	470K 5%	1/10W	R311	1-216-089-00	METAL GLAZE	47K 5%	1/10W
R244	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W	R312	1-216-089-00	METAL GLAZE	47K 5%	1/10W
R245	1-216-579-11	METAL CHIP	15K 0.50%	1/10W	R313	1-216-033-00	METAL GLAZE	220 5%	1/10W
R246	1-216-103-00	METAL GLAZE	180K 5%	1/10W	R314	1-216-089-00	METAL GLAZE	47K 5%	1/10W
R247	1-216-093-00	METAL GLAZE	68K 5%	1/10W	R315	1-216-113-00	METAL GLAZE	470K 5%	1/10W
R248	1-216-095-00	METAL GLAZE	82K 5%	1/10W	R316	1-216-105-00	METAL GLAZE	220K 5%	1/10W
R249	1-216-109-00	METAL GLAZE	330K 5%	1/10W	R317	1-216-109-00	METAL GLAZE	330K 5%	1/10W
R250	1-216-101-00	METAL GLAZE	220 5%	1/10W	R318	1-216-105-00	METAL GLAZE	220K 5%	1/10W
R251	1-216-105-00	METAL GLAZE	220K 5%	1/10W	R319	1-216-099-00	METAL GLAZE	120K 5%	1/10W
R252	1-216-101-00	METAL GLAZE	150K 5%	1/10W	R320	1-216-099-00	METAL GLAZE	120K 5%	1/10W
R253	1-216-101-00	METAL GLAZE	150X 5%	1/10W	R321	1-216-043-00	METAL GLAZE	560 5%	1/10W
R254	1-216-033-00	METAL GLAZE	220 5%	1/10W	R325	1-216-097-00	METAL GLAZE	100K 5%	1/10W
R255	1-216-061-00	METAL GLAZE	3.3K 5%	1/10W	R326	1-216-113-00	METAL GLAZE	470K 5%	1/10W
R256	1-216-107-00	METAL GLAZE	270K 5%	1/10W	R328	1-216-073-00	METAL GLAZE	10K 5%	1/10W
R258	1-216-041-00	METAL GLAZE	470 5%	1/10W	R329	1-216-107-00	METAL GLAZE	270K 5%	1/10W
R259	1-216-073-00	METAL GLAZE	10K 5%	1/10W	R330	1-216-105-00	METAL GLAZE	220K 5%	1/10W
R260	1-216-025-00	METAL GLAZE	100 5%	1/10W	R331	1-216-025-00	METAL GLAZE	100 5%	1/10W
R261	1-216-035-00	METAL GLAZE	270 5%	1/10W	R332	1-216-097-00	METAL GLAZE	100K 5%	1/10W
R262	1-216-097-00	METAL GLAZE	100X 5%	1/10W	R333	1-216-097-00	METAL GLAZE	100K 5%	1/10W
R263	1-216-029-00	METAL GLAZE	150 5%	1/10W	R334	1-216-025-00	METAL GLAZE	100 5%	1/10W
R264	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W	R335	1-216-099-00	METAL GLAZE	120K 5%	1/10W
R265	1-216-067-00	METAL GLAZE	5.6K 5%	1/10W	R336	1-216-095-00	METAL GLAZE	82K 5%	1/10W
R266	1-216-073-00	METAL GLAZE	100 5%	1/10W	R338	1-216-025-00	METAL GLAZE	100 5%	1/10W
R267	1-216-073-00	METAL GLAZE	100 5%	1/10W	R339	1-216-099-00	METAL GLAZE	120K 5%	1/10W
R268	1-216-081-00	METAL GLAZE	22K 5%	1/10W	R340	1-216-095-00	METAL GLAZE	82K 5%	1/10W
R269	1-216-101-00	METAL GLAZE	150K 5%	1/10W	R342	1-216-047-00	METAL GLAZE	820 5%	1/10W
R270	1-216-081-00	METAL GLAZE	22K 5%	1/10W	R343	1-216-053-00	METAL GLAZE	1.5K 5%	1/10W
R271	1-216-025-00	METAL GLAZE	100 5%	1/10W	R344	1-216-664-11	METAL CHIP	3.6K 0.50%	1/10W
R272	1-216-101-00	METAL GLAZE	150X 5%	1/10W	R345	1-216-661-11	METAL CHIP	2.7K 0.50%	1/10W
R273	1-216-113-00	METAL GLAZE	470R 5%	1/10W	R346	1-216-105-00	METAL GLAZE	220K 5%	1/10W
R275	1-216-081-00	METAL GLAZE	22K 5%	1/10W	R348	1-216-061-00	METAL GLAZE	3.3K 5%	1/10W
R276	1-216-037-00	METAL GLAZE	330 5%	1/10W	R349	1-216-650-11	METAL CHIP	910 0.50%	1/10W
R277	1-216-049-00	METAL GLAZE	1K 5%	1/10W	R350	1-216-653-11	METAL CHIP	1.2K 0.50%	1/10W
R278	1-216-057-00	METAL GLAZE	2.2K 5%	1/10W	R351	1-216-650-11	METAL CHIP	910 0.50%	1/10W
R279	1-216-037-00	METAL GLAZE	330 5%	1/10W	R352	1-216-653-11	METAL CHIP	1.2K 0.50%	1/10W
R280	1-216-061-00	METAL GLAZE	3.3K 5%	1/10W	R353	1-216-650-11	METAL CHIP	910 0.50%	1/10W
R281	1-216-061-00	METAL GLAZE	3.3K 5%	1/10W	R354	1-216-653-11	METAL CHIP	1.2K 0.50%	1/10W
R282	1-216-037-00	METAL GLAZE	330 5%	1/10W	R355	1-216-113-00	METAL GLAZE	470K 5%	1/10W
R283	1-216-049-00	METAL GLAZE	1K 5%	1/10W	R356	1-216-113-00	METAL GLAZE	470K 5%	1/10W
R284	1-216-057-00	METAL GLAZE	2.2K 5%	1/10W	R357	1-216-095-00	METAL GLAZE	82K 5%	1/10W
R285	1-216-037-00	METAL GLAZE	330 5%	1/10W	R358	1-216-113-00	METAL GLAZE	470K 5%	1/10W
R286	1-216-061-00	METAL GLAZE	3.3K 5%	1/10W	R359	1-216-081-00	METAL GLAZE	220 5%	1/10W
R287	1-216-061-00	METAL GLAZE	3.3K 5%	1/10W	R360	1-216-089-00	METAL GLAZE	47K 5%	1/10W
R288	1-216-037-00	METAL GLAZE	330 5%	1/10W	R363	1-216-069-00	METAL GLAZE	6.3K 5%	1/10W
R289	1-216-049-00	METAL GLAZE	1K 5%	1/10W	R364	1-216-073-00	METAL GLAZE	10K 5%	1/10W
R290	1-216-057-00	METAL GLAZE	2.2K 5%	1/10W	R365	1-216-073-00	METAL GLAZE	10K 5%	1/10W
R291	1-216-037-00	METAL GLAZE	330 5%	1/10W	R366	1-216-244-00	METAL GLAZE	82K 5%	1/BW
R292	1-216-061-00	METAL GLAZE	3.3K 5%	1/10W	R367	1-216-244-00	METAL GLAZE	82K 5%	1/BW
R293	1-216-061-00	METAL GLAZE	3.3K 5%	1/10W	R368	1-216-055-00	METAL GLAZE	1.8K 5%	1/10W
R295	1-216-057-00	METAL GLAZE	2.2K 5%	1/10W	R369	1-216-248-00	METAL GLAZE	120K 5%	1/BW
R296	1-216-659-11	METAL CHIP	2.2K 0.50%	1/10W	R370	1-216-115-00	METAL GLAZE	560K 5%	1/10W
R297	1-216-659-11	METAL CHIP	2.2K 0.50%	1/10W	R371	1-216-067-00	METAL GLAZE	5.6K 5%	1/10W
R298	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W	R372	1-216-115-00	METAL GLAZE	560K 5%	1/10W
R300	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W	R374	1-216-115-00	METAL GLAZE	560K 5%	1/10W
R301	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W	R375	1-216-683-11	METAL CHIP	22K 0.50%	1/10W
R302	1-216-113-00	METAL GLAZE	470K 5%	1/10W	R376	1-216-663-11	METAL CHIP	3.3K 0.50%	1/10W
R303	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W	R378	1-216-025-00	METAL GLAZE	100 5%	1/10W
R304	1-216-049-00	METAL GLAZE	1K 5%	1/10W					

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK				
R379	I-216-641-11	METAL CHIP	390	0.50X	1/10W	R1051	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R380	I-216-668-11	METAL CHIP	5.1K	0.50X	1/10W	R1058	1-216-109-00	METAL GLAZE	330K	5%	1/10W
R381	I-216-089-00	METAL GLAZE	47K	5%	1/10W	R1059	1-216-109-00	METAL GLAZE	330K	5%	1/10W
R382	I-216-025-00	METAL GLAZE	100	5%	1/10W	R1060	1-216-109-00	METAL GLAZE	330K	5%	1/10W
R383	I-216-641-11	METAL CHIP	390	0.50X	1/10W	R1061	1-216-109-00	METAL GLAZE	330K	5%	1/10W
R384	I-216-668-11	METAL CHIP	5.1K	0.50X	1/10W	R1062	1-216-103-00	METAL GLAZE	180K	5%	1/10W
R385	I-216-117-00	METAL GLAZE	680K	5%	1/10W	R1063	1-216-103-00	METAL GLAZE	180K	5%	1/10W
R386	I-216-025-00	METAL GLAZE	100	5%	1/10W	R1064	1-216-103-00	METAL GLAZE	180K	5%	1/10W
R387	I-216-641-11	METAL CHIP	390	0.50X	1/10W	R1065	1-216-103-00	METAL GLAZE	180K	5%	1/10W
R388	I-216-668-11	METAL CHIP	5.1K	0.50X	1/10W	R1066	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R389	I-216-105-00	METAL GLAZE	220K	5%	1/10W	R1067	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R391	I-216-081-00	METAL GLAZE	22K	5%	1/10W	R1068	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R392	I-216-113-00	METAL GLAZE	470K	5%	1/10W	R1069	1-216-133-00	METAL GLAZE	3.3M	5%	1/10W
R393	I-216-085-00	METAL GLAZE	33K	5%	1/10W	R1070	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R394	I-216-121-00	METAL GLAZES	1M	5%	1/10W	R1071	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R397	I-249-437-11	CARBON	47K	5%	1/4W	R1072	1-216-099-00	METAL GLAZE	120K	5%	1/10W
R398	I-249-434-11	CARBON	27K	5%	1/4W	R1073	1-216-131-11	METAL GLAZE	2.7M	5%	1/10W
R399	I-216-073-00	METAL GLAZE	10K	5%	1/10W	R1075	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R4001	I-216-073-00	METAL GLAZE	10K	5%	1/10W	R1076	1-216-101-00	METAL GLAZE	150K	5%	1/10W
R4002	I-216-047-00	METAL GLAZE	820	5%	1/10W	R1077	1-216-103-00	METAL GLAZE	180K	5%	1/10W
R4003	I-216-055-00	METAL GLAZE	1.8K	5%	1/10W	R1078	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R4004	I-216-061-00	METAL GLAZE	3.3K	5%	1/10W	R1079	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R4005	I-216-047-00	METAL GLAZE	820	5%	1/10W	R1080	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R4006	I-216-055-00	METAL GLAZE	1.8K	5%	1/10W	R1081	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R4007	I-216-061-00	METAL GLAZE	3.3K	5%	1/10W	R1083	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R4008	I-216-047-00	METAL GLAZE	820	5%	1/10W	R1084	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W
R4009	I-216-055-00	METAL GLAZE	1.8K	5%	1/10W	R1088	1-216-047-00	METAL GLAZE	820	5%	1/10W
R4010	I-216-061-00	METAL GLAZE	3.3K	5%	1/10W	R1090	1-216-045-00	METAL GLAZE	680	5%	1/10W
R4011	I-216-033-00	METAL GLAZE	220	5%	1/10W	R1091	1-216-045-00	METAL GLAZE	680	5%	1/10W
R4012	I-216-051-00	METAL GLAZE	1.2K	5%	1/10W	R1092	1-216-045-00	METAL GLAZE	680	5%	1/10W
R4013	I-216-051-00	METAL GLAZE	1.2K	5%	1/10W	R1093	1-216-121-00	METAL GLAZE	1M	5%	1/10W
R4014	I-216-246-00	METAL GLAZE	100K	5%	1/8W	R1094	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R4015	I-216-033-00	METAL GLAZE	220	5%	1/10W	R1095	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R4016	I-216-089-00	METAL GLAZE	47K	5%	1/10W	R1096	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R4017	I-216-045-00	METAL GLAZE	680	5%	1/10W	R1099	1-216-659-11	METAL CHIP	100K	0.50%	1/10W
R4018	I-216-043-00	METAL GLAZE	560	5%	1/10W	R1201	1-218-754-11	METAL CHIP	120K	0.50%	1/10W
R4019	I-216-033-00	METAL GLAZE	220	5%	1/10W	R1207	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R4020	I-216-089-00	METAL GLAZE	47K	5%	1/10W	R1208	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R4021	I-216-045-00	METAL GLAZE	680	5%	1/10W	R1220	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
R4022	I-216-025-00	METAL GLAZE	160	5%	1/10W	R1221	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
R4023	I-216-073-00	METAL GLAZE	10K	5%	1/10W	R1222	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
R4024	I-216-025-00	METAL GLAZE	100	5%	1/10W	R1223	1-216-689-11	METAL GLAZE	39K	5%	1/10W
R4025	I-216-033-00	METAL GLAZE	220	5%	1/10W	R1225	1-216-876-00	METAL OXIDE	15K	5%	1W
R4026	I-216-061-00	METAL GLAZE	3.3K	5%	1/10W	R1226	1-215-876-00	METAL OXIDE	15K	5%	1W
R4027	I-216-101-00	METAL GLAZE	150K	5%	1/10W	R1227	1-215-876-00	METAL OXIDE	15K	5%	1W
R4028	I-216-033-00	METAL GLAZE	220	5%	1/10W	R1228	1-249-421-11	CARBON	2.2K	5%	1/4W
R4029	I-216-061-00	METAL GLAZE	3.3K	5%	1/10W	R1229	1-249-421-11	CARBON	2.2K	5%	1/4W
R4031	I-216-033-00	METAL GLAZE	220	5%	1/10W	R1230	1-249-421-11	CARBON	2.2K	5%	1/4W
R4032	I-216-061-00	METAL GLAZE	3.3K	5%	1/10W	R1231	1-216-031-00	METAL GLAZE	180	5%	1/10W
R4033	I-216-081-00	METAL GLAZE	22K	5%	1/10W	R1232	1-216-031-00	METAL GLAZE	180	5%	1/10W
R4034	I-216-089-00	METAL GLAZE	47K	5%	1/10W	R1233	1-216-031-00	METAL GLAZE	180	5%	1/10W
R4035	I-216-073-00	METAL GLAZE	10K	5%	1/10W	R1234	1-216-031-00	METAL GLAZE	180	5%	1/10W
R4036	I-216-089-00	METAL GLAZE	47K	5%	1/10W	R1235	1-216-031-00	METAL GLAZE	180	5%	1/10W
R4037	I-216-081-00	METAL GLAZE	23K	5%	1/10W	R1236	1-216-031-00	METAL GLAZE	180	5%	1/10W
R4040	I-216-025-00	METAL GLAZE	100	5%	1/10W	R1237	1-249-419-11	CARBON	1.5K	5%	1/4W
R4042	I-216-047-00	METAL GLAZE	820	5%	1/10W	R1238	1-249-419-11	CARBON	1.5K	5%	1/4W
R4043	I-216-073-00	METAL GLAZE	2.2K	5%	1/10W	R1239	1-249-419-11	CARBON	1.5K	5%	1/4W
R4044	I-216-061-00	METAL GLAZE	3.3K	5%	1/10W	R1270	1-216-079-00	METAL GLAZE	18K	5%	1/10W
R4045	I-216-125-00	METAL CHIP	1.5M	5%	1/10W	R1280	1-216-109-00	METAL GLAZE	330K	5%	1/10W
R4046	I-216-689-11	METAL CHIP	39K	0.50X	1/10W	R1290	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W
R4047	I-216-065-00	METAL GLAZE	4.7K	5%	1/10W	R1291	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R4048	I-216-049-00	METAL GLAZE	1K	5%	1/10W	R1294	I-216-069-00	METAL GLAZE	6.8K	5%	1/10W
R4049	I-216-085-00	METAL GLAZE	33K	5%	1/10W	R1295	I-216-109-00	METAL GLAZE	330K	5%	1/10W
R4050	I-216-059-00	METAL GLAZE	2.7K	5%	1/10W						

**B****P**

The components identified by shading and mark **A** are critical for safety.  
Replace only with part number specified.

Les composants identifiés par une forme et une marque **A** sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK	
R1296	1-216-095-00	METAL GLAZE	82K 5%	1/10W	RV105	1-238-012-11	RES, ADJ, CARBON 1K	
R1297	1-216-077-00	METAL GLAZE	15K 5%	1/10W	RV106	1-238-012-11	RES, ADJ, CARBON 1K	
R1298	1-216-077-00	METAL GLAZE	15K 5%	1/10W	RV107	1-238-012-11	RES, ADJ, CARBON 1K	
R1299	1-216-075-00	METAL GLAZE	12K 5%	1/10W	RV108	1-238-016-11	RES, ADJ, CARBON 10K	
R1300	1-216-089-00	METAL GLAZE	47K 5%	1/10W	RV109	1-241-765-21	RES, ADJ, CERMET 22K	
R1301	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W	RV110	1-238-016-11	RES, ADJ, CARBON 10K	
R1302	1-216-113-00	METAL GLAZE	470K 5%	1/10W	RV111	1-238-016-11	RES, ADJ, CARBON 10K	
R1303	1-216-113-00	METAL GLAZE	470K 5%	1/10W	RV112	1-238-019-11	RES, ADJ, CARBON 47K	
R1304	1-216-093-00	METAL GLAZE	68K 5%	1/10W	RV113	1-238-019-11	RES, ADJ, CARBON 47K	
R1305	1-216-586-11	METAL CHIP	0.30K 5%	1/10W	RV114	1-238-019-11	RES, ADJ, CARBON 47K	
R1306	1-216-063-00	METAL GLAZE	3.9K 5%	1/10W	RV115	1-238-017-11	RES, ADJ, CARBON 22K	
R1307	1-216-041-00	METAL GLAZE	470 5%	1/10W	RV116	1-238-017-11	RES, ADJ, CARBON 22K	
R1308	1-216-041-00	METAL GLAZE	470 5%	1/10W	RV118	1-238-017-11	RES, ADJ, CARBON 22K	
R1309	1-216-063-00	METAL GLAZE	3.9K 5%	1/10W	RV119	1-238-017-11	RES, ADJ, CARBON 22K	
R1310	1-216-119-00	METAL GLAZE	820K 5%	1/10W	RV120	1-238-017-11	RES, ADJ, CARBON 22K	
R1311	1-216-101-00	METAL GLAZE	150K 5%	1/10W	RV121	1-238-017-11	RES, ADJ, CARBON 22K	
R1314	1-216-053-00	METAL GLAZE	1.5K 5%	1/10W	RV122	1-238-017-11	RES, ADJ, CARBON 22K	
R1315	1-216-077-00	METAL GLAZE	15K 5%	1/10W	RV123	1-238-013-11	RES, ADJ, CARBON 2.2K	
R1320	1-216-083-00	METAL GLAZE	27K 5%	1/10W	RV124	1-238-012-11	RES, ADJ, CARBON 1K	
R1321	1-216-093-00	METAL GLAZE	68K 5%	1/10W	RV125	1-238-012-11	RES, ADJ, CARBON 1K	
R1322	1-216-037-00	METAL GLAZE	330 5%	1/10W	RV205	1-238-017-11	RES, ADJ, CARBON 22K	
R1323	1-216-057-00	METAL GLAZE	2.2K 5%	1/10W			<MODULE>	
R1324	1-216-121-00	METAL GLAZE	1M 5%	1/10W	SEP101	1-808-654-11	MODULE	
R1325	1-216-085-00	METAL GLAZE	33K 5%	1/10W			<CRYSTAL>	
R1326	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W	X101	1-527-722-00	OSCILLATOR, CRYSTAL	
R1327	1-216-099-00	METAL GLAZE	120K 5%	1/10W	X102	1-577-259-11	VIBRATOR, CRYSTAL	
R1328	1-216-099-00	METAL GLAZE	120K 5%	1/10W			*****	
R1329	1-216-093-00	METAL GLAZE	68K 5%	1/10W				
R1330	1-216-063-00	METAL GLAZE	3.9K 5%	1/10W				
R1331	1-216-051-00	METAL GLAZE	1.2K 5%	1/10W				
R1332	1-216-057-00	METAL GLAZE	2.2K 5%	1/10W				
R1333	1-216-057-00	METAL GLAZE	2.2K 5%	1/10W				
R1334	1-216-055-00	METAL GLAZE	1.88 5%	1/10W				
R1335	1-216-035-00	METAL GLAZE	270 5%	1/10W				
R1336	1-216-089-00	METAL GLAZE	47K 5%	1/10W				
R1337	1-216-113-00	METAL GLAZE	470K 5%	1/10W				
R1338	1-216-049-00	METAL GLAZE	1K 5%	1/10W				
R1339	1-216-097-00	METAL GLAZE	100K 5%	1/10W				
R1340	1-216-097-00	METAL GLAZE	100K 5%	1/10W				
R1341	1-216-111-00	METAL GLAZE	390K 5%	1/10W				
R1342	1-216-694-11	METAL CHIP	62K 0.50%	1/10W				
R1343	1-216-121-00	METAL GLAZE	1M 5%	1/10W				
R1344	1-216-073-00	METAL GLAZE	10K 5%	1/10W				
R1345	1-216-055-00	METAL GLAZE	1.8K 5%	1/10W				
R1346	1-216-047-00	METAL GLAZE	820 5%	1/10W				
R1347	1-216-073-00	METAL GLAZE	10K 5%	1/10W				
R1348	1-216-073-00	METAL GLAZE	10K 5%	1/10W				
R1349	1-216-073-00	METAL GLAZE	10K 5%	1/10W				
R1350	1-216-073-00	METAL GLAZE	10K 5%	1/10W				
R1351	1-216-073-00	METAL GLAZE	10K 5%	1/10W				
R1352	1-216-073-00	METAL GLAZE	10K 5%	1/10W				
R1353	1-216-115-00	METAL GLAZE	560K 5%	1/10W				
R1371	1-216-057-00	METAL GLAZE	2.2K 5%	1/10W				
R1372	1-216-057-00	METAL GLAZE	2.2K 5%	1/10W				
R1373	1-216-057-00	METAL GLAZE	2.2K 5%	1/10W				
R1392	1-216-089-00	METAL GLAZE	47K 5%	1/10W				
R1393	1-216-109-00	METAL GLAZE	330K 5%	1/10W				
		<VARIABLE RESISTOR>						
RV101	1-241-763-11	RES, ADJ, CERMET	4.7K					
RV102	1-241-763-11	RES, ADJ, CERMET	4.7K					
RV103	1-238-009-11	RES, ADJ, CARBON	220					
RV104	1-238-009-11	RES, ADJ, CARBON	220					
C801	1-126-104-11	ELECT	470MF	20%	35V			
C802	1-162-318-11	CERAMIC	0.001MF	10%	500V			
C803	1-102-228-00	CERAMIC	470PF	10%	500V			
C804	1-123-935-00	ELECT	33MF	20%	160V			
C805	1-101-004-00	CERAMIC	0.01MF		50V			
		<CAPACITOR>						
C806	1-124-480-11	ELECT	470MF	20%	25V			
C807	1-102-228-00	CERAMIC	470PF	10%	500V			
C808	1-106-367-00	NYLAR	0.01MF	10%	100V			
C809	1-106-375-12	NYLAR	0.022MF	10%	100V			
C810	1-162-318-11	CERAMIC	0.001MF	10%	500V			
C811	1-137-544-91	FILM	0.01MF	32%	600V			
C812	1-137-546-91	FILM	0.017MF	32%	600V			
C813	1-106-345-00	NYLAR	0.05MF	5%	200V			
C814	1-106-343-00	NYLAR	0.047MF	10%	100V			
C815	1-126-233-11	ELECT	22MF	20%	50V			
C816	1-124-798-11	ELECT	1MF	20%	160V			
C817	1-130-800-00	FILM	2.2MF	10%	250V			
C818	1-102-228-00	CERAMIC	470PF	10%	500V			
C819	1-162-116-00	CERAMIC	680PF	10%	2KV			
C820	1-162-116-00	CERAMIC	680PF	10%	2KV			
C821	1-162-116-00	CERAMIC	680PF	10%	2KV			

P Fc QB

Les composants identifiés par une trame et une marque ▲ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK		
<CONNECTOR>									
CN801	#1-564-595-11	PLUG, CONNECTOR 14P		J802	A-1439-526-11	TRANSFORMER ASSY, FLYBACK			
CN802	#1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P		*1-644-021-11	FC BOARD				
CN803	#1-564-508-11	PLUG, CONNECTOR 5P		*4-341-751-01	EYELET EY3,EY4				
CN805	#1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P		*4-341-752-01	EYELET EY1,EY2,EY3,EY4				
<DIODE>									
D801	8-719-300-33	DIODE RU-3AM		<CONNECTOR>					
D802	8-719-300-33	DIODE RU-3AM		CN601	#1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P			
D803	8-719-300-33	DIODE RU-3AM		CN602	#1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P			
D804	8-719-979-85	DIODE EGP20G		CN603	#1-564-507-11	PLUG, CONNECTOR 4P			
D805	8-719-300-33	DIODE RU-3AM		<FUSE>					
D806	8-719-300-33	DIODE RU-3AM		F601	A-1570-230-11	FUSE (TYP. C) 15A/250V			
D807	8-719-105-X1	DIODE RDG.2M-B1		*1-533-223-11	CLIP, FUSE: F601				
D808	8-719-018-72	THYRISTOR CR02AN-4TB		<RESISTOR>					
D809	8-719-911-52	DIODE U05G		R602	1-202-721-00	SOLID 1.5K 20% 1/2W			
D810	8-719-911-52	DIODE U05G		<SWITCH>					
D811	8-719-911-55	DIODE U05G		S601	A-15692-050-11	SWITCH, PUSH (AC POWER LINE)			
D813	8-719-300-33	DIODE RU-3AM		<INDUCTOR>					
<COIL>									
L802	1-459-442-00	COIL (WITH CORE)		*A-1275-104-A	QB BOARD, COMPLETE				
L803	1-422-613-11	COIL, AIR CORE		<TERMINAL BOARD, INPUT/OUTPUT>					
L804	1-459-109-00	COIL, DUST CORE		*1-537-434-11	TERMINAL BOARD, INPUT/OUTPUT				
L805	1-460-346-11	COIL, HORN (20NTAL LINEARITY)		*4-341-752-01	EYELET EY8,EY9				
L806	1-414-099-11	INDUCTOR, MICRO		<CAPACITOR>					
L807	1-414-099-11	INDUCTOR, MICRO		C401	1-124-234-00	ELECT 22MF 20% 16V			
<NEON LAMP>				C402	1-163-031-11	CERAMIC CHIP 0.01MF 50V			
NL801	1-519-108-XX	LAMP, NEON		C405	1-124-234-00	ELECT 22MF 20% 16V			
<TRANSISTOR>				C409	1-124-234-00	ELECT 22MF 20% 16V			
Q801	8-729-195-82	TRANSISTOR 2SC2958-L		C410	1-124-234-00	ELECT 22MF 20% 16V			
Q802	8-729-201-62	TRANSISTOR 2SC2955-2		C411	1-124-234-00	ELECT 22MF 20% 16V			
Q803	8-729-906-24	TRANSISTOR 2SD835		C412	1-124-234-00	ELECT 22MF 20% 16V			
<RESISTOR>				C414	1-126-157-11	ELECT 10MF 20% 16V			
R801	1-249-383-11	CARBON 1.5% 1W F		C415	1-126-157-11	ELECT 10MF 20% 16V			
R802	1-249-377-11	CARBON 0.47% 1W F		C418	1-126-157-11	ELECT 10MF 20% 16V			
R803	1-216-049-00	METAL GLAZE 1K 5%		C419	1-126-157-11	ELECT 10MF 20% 16V			
R804	1-249-419-11	CARBON 1.5K 5% 1/4W F		C420	1-126-157-11	ELECT 10MF 20% 16V			
R805	1-215-892-11	METAL OXIDE 1K 5% 2W F		C421	1-102-125-00	CERAMIC 0.0047MF 10% 50V			
R807	1-216-425-11	METAL OXIDE 56% 5% 1W F		C422	1-124-464-11	ELECT 0.22MF 20% 16V			
R808	1-202-846-00	SOLID 470K 20% 1/4W F		C423	1-126-157-11	ELECT 10MF 20% 16V			
R809	1-216-089-00	METAL GLAZE 47K% 5% 1/10W		C424	1-126-157-11	ELECT 10MF 20% 16V			
R810	1-249-421-11	CARBON 2.2K 5% 1/4W F		C425	1-108-634-11	MLYLAB 0.047MF 10% 100V			
R811	1-216-049-00	METAL GLAZE 1K 5% 1/10W		C426	1-128-499-11	ELECT 220MF 20% 16V			
R812	1-249-439-11	CARBON 68K 5% 1/4W F		C427	1-128-499-11	ELECT 220MF 20% 16V			
R813	1-249-414-11	CARBON 560 5% 1/4W F		C428	1-128-499-11	ELECT 220MF 20% 16V			
R814	1-249-377-11	CARBON 0.47% 5% 1/4W F		C429	1-124-234-00	ELECT 22MF 20% 16V			
<VARIABLE RESISTOR>				C430	1-163-033-00	CERAMIC CHIP 0.022MF 50V			
RV801	1-223-102-00	RES, ADJ, WIREWOUND 120		C438	1-124-234-00	ELECT 22MF 20% 16V			
<TRANSFORMER>				C439	1-163-033-00	CERAMIC CHIP 0.022MF 50V			
T801	1-437-082-31	HDT		C440	1-163-033-00	CERAMIC CHIP 0.022MF 50V			
<TRANSFORMER>				C441	1-124-234-00	ELECT 22MF 20% 16V			
<TRANSFORMER>				C442	1-163-033-00	CERAMIC CHIP 0.022MF 50V			

QB

REF. NO.	PART NO.	DESCRIPTION	REMARK	BSF. NO.	PART NO.	DESCRIPTION	REMARK
C443	I-163-033-00	CERAMIC CHIP 0.022MF	50V	Q405	8-729-901-01	TRANSISTOR DTC144EK	
C444	I-163-033-00	CERAMIC CHIP 0.022MF	50V	Q406	8-729-920-74	TRANSISTOR 2SC2412K-QR	
C445	I-163-031-11	CERAMIC CHIP 0.01MF	50V	Q407	8-729-920-74	TRANSISTOR 2SC2412K-QR	
C447	I-163-031-11	CERAMIC CHIP 0.01MF	50V	Q409	8-729-920-74	TRANSISTOR 2SC2412K-QR	
C448	I-124-234-00	ELECT 22MF	20%	Q410	8-729-920-74	TRANSISTOR 2SC2412K-QR	
C449	I-124-234-00	ELECT 22MF	20%	Q412	8-729-216-22	TRANSISTOR 2SA1162-G	
C450	I-124-234-00	ELECT 22MF	20%	Q414	8-729-216-22	TRANSISTOR 2SA1162-G	
C451	I-163-033-00	CERAMIC CHIP 0.022MF	50V	Q416	8-729-145-18	TRANSISTOR 2SC3736	
C452	I-128-499-11	ELECT 220MF	20%	Q417	8-729-901-06	TRANSISTOR DTA144EK	
C453	I-128-499-11	ELECT 220MF	20%	Q418	8-729-920-74	TRANSISTOR 2SC2412K-QR	
C454	I-126-301-11	ELECT 1MF	20%	Q419	8-729-901-06	TRANSISTOR DTA144EK	
C455	I-126-301-11	ELECT 1MF	20%	Q420	8-729-901-06	TRANSISTOR DTA144EK	
C456	I-126-301-11	ELECT 1MF	20%	Q425	8-729-901-01	TRANSISTOR DTC144EK	
C458	I-163-031-11	CERAMIC CHIP 0.01MF	50V				
C459	I-163-038-00	CERAMIC CHIP 0.1MF	25V				
C460	I-163-038-00	CERAMIC CHIP 0.1MF	25V				
						<RESISTOR>	
				J8401	I-216-296-00	METAL GLAZE 0	5% 1/8W
				JR402	I-216-296-00	METAL GLAZE 0	5% 1/8W
				J8403	I-216-296-00	METAL GLAZE 0	5% 1/8W
				JR404	I-216-296-00	METAL GLAZE 0	5% 1/8W
				JR406	I-216-296-00	METAL GLAZE 0	5% 1/8W
				JR407	I-216-296-00	METAL GLAZE 0	5% 1/8W
				JR408	I-216-296-00	METAL GLAZE 0	5% 1/8W
				JR409	I-216-296-00	METAL GLAZE 0	5% 1/8W
				JR410	I-216-296-00	METAL GLAZE 0	5% 1/8W
				JR411	I-216-296-00	METAL GLAZE 0	5% 1/8W
				JR412	I-216-296-00	METAL GLAZE 0	5% 1/8W
				JR413	I-216-296-00	METAL GLAZE 0	5% 1/8W
				JR414	I-216-296-00	METAL GLAZE 0	5% 1/8W
				JR415	I-216-296-00	METAL GLAZE 0	5% 1/8W
				JR416	I-216-296-00	METAL GLAZE 0	5% 1/8W
				JR417	I-216-296-00	METAL GLAZE 0	5% 1/8W
				JR418	I-216-296-00	METAL GLAZE 0	5% 1/8W
				JR419	I-216-296-00	METAL GLAZE 0	5% 1/8W
				JR420	I-216-296-00	METAL GLAZE 0	5% 1/8W
				JR424	I-216-296-00	METAL GLAZE 0	5% 1/8W
				JR425	I-216-296-00	METAL GLAZE 0	5% 1/8W
				JR426	I-216-296-00	METAL GLAZE 0	5% 1/8W
				JR427	I-216-296-00	METAL GLAZE 0	5% 1/8W
				JR428	I-216-296-00	METAL GLAZE 0	5% 1/8W
				JR430	I-216-296-00	METAL GLAZE 0	5% 1/8W
				JR431	I-216-296-00	METAL GLAZE 0	5% 1/8W
				JR432	I-216-296-00	METAL GLAZE 0	5% 1/8W
				JR434	I-216-296-00	METAL GLAZE 0	5% 1/8W
				JR436	I-216-296-00	METAL GLAZE 0	5% 1/8W
				JR437	I-216-296-00	METAL GLAZE 0	5% 1/8W
				JR438	I-216-296-00	METAL GLAZE 0	5% 1/8W
				JR439	I-216-296-00	METAL GLAZE 0	5% 1/8W
				JR440	I-216-296-00	METAL GLAZE 0	5% 1/8W
				JR441	I-216-296-00	METAL GLAZE 0	5% 1/8W
				K401	I-214-702-00	METAL	75 1% 1/4W
				R402	I-216-049-00	METAL GLAZE	1K 5% 1/10W
				R403	I-216-091-00	METAL GLAZE	56K 5% 1/10W
				R404	I-216-093-00	METAL GLAZE	58K 5% 1/10W
				R405	I-216-061-00	METAL GLAZE	3.3K 5% 1/10W
				R416	I-216-029-00	METAL GLAZE	150 5% 1/10W
				R418	I-216-089-00	METAL GLAZE	47K 5% 1/10W
				R419	I-216-089-00	METAL GLAZE	47K 5% 1/10W
				R420	I-216-089-00	METAL GLAZE	47K 5% 1/10W
				R421	I-216-097-00	METAL GLAZE	100K 5% 1/10W
				R422	I-216-089-00	METAL GLAZE	47K 5% 1/10W
				R429	I-214-702-00	METAL	75 1% 1/4W
				R430	I-216-049-00	METAL GLAZE	1K 5% 1/10W

QB

C<sub>B</sub>

D

D

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK				
C524	1-102-116-00	CERAMIC	680PF	10%	50V	C1610	1-126-163-11	ELECT	4.7MF	20%	50V
C525	1-102-820-00	CERAMIC	330PF	5%	50V	C1611	1-124-482-11	ELECT	33MF	20%	35V
C526	1-102-973-00	CERAMIC	100PF	5%	50V	C1612	1-136-257-00	FILM	0.0039MF	5%	50V
C527	1-124-514-11	ELECT	100MF	20%	50V	C1613	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C528	1-102-125-00	CERAMIC	0.0047MF	10%	50V	C1614	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C529	1-124-513-11	ELECT	47MF	20%	50V	C1615	1-124-042-51	ELECT	0.47MF	20%	50V
C530	1-163-097-00	CERAMIC CHIP	15PF	5%	50V	C1620	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C531	1-131-370-00	TANTALUM	6.8MF	10%	16V	C1621	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C532	1-124-557-11	ELECT	1000MF	20%	25V	C1641	1-163-035-00	CERAMIC CHIP	0.047MF	50V	
C533	1-124-927-11	ELECT	4.7MF	20%	50V						
C534	1-124-768-11	ELECT	4.7MF	20%	50V						
C535	1-136-161-00	FILM	0.047MF	5%	50V						
C536	1-124-927-11	ELECT	4.7MF	20%	50V	CN501	*1-564-506-11	PLUG, CONNECTOR	3P		
C537	1-124-510-11	ELECT	220MF	20%	35V	CN502	1-506-477-11	PIN, CONNECTOR	12P		
C538	1-124-910-11	ELECT	47MF	20%	50V	CN503	*1-564-507-11	PLUG, CONNECTOR	4P		
C539	1-136-828-11	FILM	1.8MF	5%	200V	CN505	*1-564-509-11	PLUG, CONNECTOR	6P		
C540	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	CN507	*1-564-507-11	PLUG, CONNECTOR	4P		
C541	1-163-035-00	CERAMIC CHIP	0.047MF	50V		CN508	*1-564-104-00	PIN, CONNECTOR (6P-VH)	3P		
C542	1-126-103-11	ELECT	47MF	20%	16V	CN509	*1-564-506-11	PLUG, CONNECTOR	3P		
C545	1-126-101-11	ELECT	100MF	20%	16V						
C546	1-124-907-11	ELECT	10MF	20%	50V						
C547	1-124-907-11	ELECT	10MF	20%	50V						
C548	1-124-907-11	ELECT	10MF	20%	50V	D501	8-719-404-46	DIODE MA110			
C549	1-124-907-11	ELECT	10MF	20%	50V	D502	8-719-404-46	DIODE MA110			
C550	1-124-907-11	ELECT	10MF	20%	50V	D503	8-719-404-46	DIODE MA110			
C551	1-124-927-11	ELECT	4.7MF	20%	50V	D504	8-719-404-46	DIODE MA110			
C552	1-101-004-00	CERAMIC	0.01MF	50V		D505	8-719-404-46	DIODE MA110			
C553	1-126-103-11	ELECT	470MF	20%	16V	D506	8-719-911-55	DIODE U05C			
C554	1-106-385-00	MYLAR	0.047MF	10%	100V	D507	8-719-404-46	DIODE MA110			
C556	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	D508	8-719-404-46	DIODE MA110			
C567	1-123-875-11	ELECT	10MF	20%	50V	D511	8-719-404-46	DIODE MA110			
C568	1-130-736-11	FILM	0.01MF	5%	50V	D512	8-719-404-46	DIODE MA110			
C569	1-130-471-00	FILM	0.001MF	5%	50V	D514	8-719-404-46	DIODE MA110			
C570	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	D515	8-719-404-46	DIODE MA110			
C571	1-124-913-11	ELECT	470MF	20%	50V	D516	8-719-404-46	DIODE MA110			
C572	1-101-004-00	CERAMIC	0.01MF	50V		D517	8-719-800-81	DIODE ISS226			
C574	1-106-351-00	MYLAR	0.0122MF	10%	100V	D531	8-719-404-46	DIODE MA110			
C575	1-106-351-00	MYLAR	0.0122MF	10%	100V	D532	8-719-404-46	DIODE MA110			
C831	1-123-875-11	ELECT	10MF	20%	50V	D833	8-719-404-46	DIODE MA110			
C832	1-123-875-11	ELECT	10MF	20%	50V	D834	8-719-404-46	DIODE MA110			
C833	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	D835	8-719-109-89	DIODE R05.GESB2			
C834	1-163-120-11	CERAMIC CHIP	150PF	5%	50V	D836	8-719-977-69	DIODE DTZ248			
C835	1-163-209-00	CERAMIC CHIP	0.0115MF	5%	50V	D837	8-719-404-46	DIODE MA110			
C836	1-123-875-11	ELECT	10MF	20%	50V	D838	8-719-404-46	DIODE MA110			
C837	1-163-209-00	CERAMIC CHIP	0.0015MF	5%	50V	D1601	8-719-105-XX	DIODE R06.2M-B1			
C838	1-136-163-00	FILM	0.068MF	5%	50V	D1602	8-719-404-46	DIODE MA110			
C839	1-102-123-00	CERAMIC	0.0327MF	10%	50V	D1603	8-719-977-61	DIODE DTZ208			
C840	1-163-209-00	CERAMIC CHIP	0.0015MF	5%	50V	D1604	8-719-404-46	DIODE MA110			
C841	1-163-209-00	CERAMIC CHIP	0.0015MF	5%	50V	D1605	8-719-404-46	DIODE MA110			
C842	1-124-042-51	ELECT	0.47MF	20%	50V	D1606	8-719-581-00	DIODE ERC81-004			
C844	1-124-902-00	ELECT	0.47MF	20%	50V	D1607	8-719-981-00	DIODE ERC81-004			
C845	1-124-126-00	ELECT	47MF	20%	10V	D1608	8-719-977-02	DIODE DTZ5.6A			
C846	1-124-907-11	ELECT	10MF	20%	50V	D1609	8-719-977-49	DIODE DTZ15B			
C847	1-126-233-11	ELECT	22MF	20%	50V	D1610	8-719-404-46	DIODE MA110			
C848	1-131-351-00	TANTALUM	4.7MF	10%	35V	D1611	8-729-101-31	TRANSISTOR N1371			
C849	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V	D1612	8-719-404-46	DIODE MA110			
C1601	1-124-907-11	ELECT	10MF	20%	50V	D1613	8-719-404-46	DIODE MA110			
C1602	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V	D1614	8-719-404-46	DIODE MA110			
C1603	1-104-346-91	ELECT	15MF	50V		D1615	8-719-404-46	DIODE MA110			
C1604	1-128-500-51	ELECT	1000MF	20%	50V	D1616	8-719-404-46	DIODE MA110			
C1605	1-124-922-11	ELECT	1000MF	20%	50V	D1617	8-719-977-49	DIODE DTZ15B			
C1606	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	D1618	8-719-977-49	DIODE DTZ15B			
C1607	1-124-907-11	ELECT	10MF	20%	50V	D1625	8-719-404-46	DIODE MA110			
C1608	1-126-233-11	ELECT	22MF	20%	50V						
C1609	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V						

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Les composants identifiés par une trame et une marque **A** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK				
D1626	8-719-404-46	DIODE MA110		Q1605	8-729-119-80	TRANSISTOR 2SC2668-LK					
D1627	8-719-404-46	DIODE MA110		Q1606	8-729-133-42	TRANSISTOR 2SC2334-L					
D1628	8-719-404-46	DIODE MA110		Q1607	8-729-920-74	TRANSISTOR 2SC2412K-QR					
D1635	8-719-404-46	DIODE MA110		Q1608	8-729-920-74	TRANSISTOR 2SC2412K-QS					
D1699	8-719-404-46	DIODE MA110		Q1609	8-729-920-74	TRANSISTOR 2SC2412K-QR					
<FUSE>											
F1601A	I-532-777-21	FUSE, MICRO (SECONDARY) (1.25A/125V)		Q1610	8-729-920-74	TRANSISTOR 2SC2412K-QR					
F1602	I-533-189-11	HOLDER, FUSE		Q1611	8-729-920-74	TRANSISTOR 2SC2412K-QR					
<IC>											
IC501	8-759-909-70	IC CX23025		Q1612	8-729-920-74	TRANSISTOR 2SC2412K-QR					
IC502	8-759-100-60	IC UPC1377C		Q1613	8-729-920-74	TRANSISTOR 2SC2412K-QS					
IC503	8-759-801-98	IC LA7830		Q1614	8-729-920-74	TRANSISTOR 2SC2412K-QR					
IC504	8-759-929-62	IC LM7812CT		<RESISTOR>							
IC505	8-759-009-51	IC MC14538BF		JR510	1-216-295-00	METAL GLAZE 0	5%	1/10W			
IC831	8-759-509-29	IC XR14011BF		R501	1-216-089-00	METAL GLAZE 47K	5%	1/10W			
IC832	8-759-509-37	IC XR14070BF		R502	1-216-089-00	METAL GLAZE 47K	5%	1/10W			
IC833	8-759-009-51	IC MC14538F		R503	1-249-437-11	CARBON 47K	5%	1/4W F			
IC1601	8-759-509-91	IC XR10393F		R504	1-216-073-00	METAL GLAZE 10K	5%	1/10W			
<COIL>											
L501	I-410-093-11	INDUCTOR 33MH		S505	1-249-393-11	CARBON 10	5%	1/4W F			
L502	I-410-665-31	INDUCTOR 15uH		S506	1-216-071-00	METAL GLAZE 8.2K	5%	1/10W			
L503	I-424-625-11	COIL, CHOKER (PMO 381.4UH		S507	1-216-050-00	METAL GLAZE 2.7K	5%	1/10W			
L506	I-412-530-31	INDUCTOR 27uH		S508	1-216-085-00	METAL GLAZE 33K	5%	1/10W			
L1601	I-439-155-00	COIL (WTB CORE) 45uH		S509	1-216-687-11	METAL CHIP 33K	0.50%	1/10W			
L1602	I-424-626-12	COIL, CHOKER 390uH		S510	1-216-683-11	METAL CHIP 22K	0.50%	1/10W			
L1603	I-410-397-21	FERRITE BEAD INDUCTOR		S511	1-216-675-11	METAL CHIP 10K	0.50%	1/10W			
<TRANSISTOR>											
Q501	8-729-901-01	TRANSISTOR DTC144EK		S512	1-218-761-11	METAL CHIP 240K	0.50%	1/10W			
Q502	8-729-901-01	TRANSISTOR DTC144EK		S513	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W			
Q503	8-729-901-06	TRANSISTOR DTA144EK		S514	1-218-754-11	METAL CHIP 120K	0.50%	1/10W			
Q504	8-729-901-01	TRANSISTOR DTC144EK		S515	1-216-081-00	METAL GLAZE 22K	5%	1/10W			
Q505	8-729-920-74	TRANSISTOR 2SC2412K-QR		S516	1-216-073-00	METAL GLAZE 10K	5%	1/10W			
Q506	8-729-901-01	TRANSISTOR DTC144EK		S517	1-218-768-11	METAL CHIP 470K	0.50%	1/10W			
Q507	8-729-901-01	TRANSISTOR DTC144EK		S518	1-249-422-11	CARBON 2.7K	5%	1/4W F			
Q508	8-729-920-74	TRANSISTOR 2SC2412K-QR		S519	1-216-085-00	METAL GLAZE 33K	5%	1/10W			
Q509	8-729-920-74	TRANSISTOR 2SC2412K-QR		S520	1-216-677-11	METAL CHIP 12K	0.50%	1/10W			
Q510	8-729-901-06	TRANSISTOR DTA144EK		S521	1-216-067-00	METAL GLAZE 5.6K	5%	1/10W			
Q511	8-729-901-01	TRANSISTOR DTC144EK		S522	1-216-107-00	METAL GLAZE 270K	5%	1/10W			
Q512	8-729-920-74	TRANSISTOR 2SC2412K-QR		S523	1-216-081-00	METAL GLAZE 22K	5%	1/10W			
Q513	8-729-216-22	TRANSISTOR 2SA1162-G		S524	1-216-094-00	METAL GLAZE 1K	5%	1/10W			
Q514	8-729-216-22	TRANSISTOR 2SA1162-G		S525	1-216-434-11	METAL OXIDE 1.8K	5%	1W F			
Q515	8-729-313-42	TRANSISTOR 2SD1134-C		S526	1-216-079-00	METAL GLAZE 14K	5%	1/4W F			
Q516	8-729-901-01	TRANSISTOR DTC144EK		S527	1-249-437-11	CARBON 47K	5%	1/4W F			
Q517	8-729-901-01	TRANSISTOR DTC144EK		S528	1-216-073-00	METAL GLAZE 10K	5%	1/10W			
Q518	8-729-920-74	TRANSISTOR 2SC2412K-QR		S529	1-216-073-00	METAL GLAZE 10K	5%	1/10W			
Q519	8-729-920-74	TRANSISTOR 2SC2412K-QR		S530	1-216-089-00	METAL GLAZE 47K	5%	1/10W			
Q520	8-729-920-74	TRANSISTOR 2SC2412K-QR		S531	1-216-089-00	METAL GLAZE 47K	5%	1/10W			
Q521	8-729-901-06	TRANSISTOR DTA144EK		S532	1-216-097-00	METAL GLAZE 100K	5%	1/10W			
Q522	8-729-901-01	TRANSISTOR DTC144EK		S533	1-216-089-00	METAL GLAZE 47K	5%	1/10W			
Q523	8-729-920-74	TRANSISTOR 2SC2412K-QR		S534	1-216-097-00	METAL GLAZE 100K	5%	1/10W			
Q524	8-729-920-74	TRANSISTOR 2SC2412K-QR		S535	1-216-053-00	METAL GLAZE 1.5K	5%	1/10W			
Q525	8-729-920-74	TRANSISTOR 2SC2412K-QR		S536	1-212-881-11	FUSIBLE 100	5%	1/4W F			
Q526	8-729-920-74	TRANSISTOR 2SC2412K-QR		S537	1-215-867-00	METAL OXIDE 470	5%	1W F			
Q527	8-729-216-22	TRANSISTOR 2SA1162-G		S538	1-216-095-00	METAL GLAZE 82K	5%	1/10W			
Q528	8-729-920-74	TRANSISTOR 2SC2412K-QR		S539	1-216-095-00	METAL GLAZE 82K	5%	1/10W			
Q529	8-729-920-74	TRANSISTOR 2SC2412K-QR		S540	1-216-101-00	METAL GLAZE 150K	5%	1/10W			
Q530	8-729-309-08	TRANSISTOR 2SC1490A-E		S541	1-216-053-00	METAL GLAZE 3.9K	5%	1/10W			
Q531	8-729-920-74	TRANSISTOR 2SC2412K-QR		S542	1-216-075-00	METAL GLAZE 12K	5%	1/10W			
Q532	8-729-920-74	TRANSISTOR 2SC2412K-QR		S543	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W			
Q533	8-729-920-74	TRANSISTOR 2SC2412K-QR		S544	1-216-101-00	METAL GLAZE 150K	5%	1/10W			
Q534	8-729-920-74	TRANSISTOR 2SC2412K-QR		S545	1-216-041-00	METAL GLAZE 470	5%	1/10W			
Q535	8-729-920-74	TRANSISTOR 2SC2412K-QR									

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R546	1-216-091-00	METAL GLAZE	56K 5% 1/10W	R1503	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R547	1-216-121-00	METAL GLAZE	1M 5% 1/10W	R1504	1-216-689-11	METAL CHIP	39K 0.50% 1/10W
R548	1-216-107-00	METAL GLAZE	270K 5% 1/10W	R1505	1-216-693-00	METAL GLAZE	47K 5% 1/10W
R549	1-216-101-00	METAL GLAZE	150K 5% 1/10W	R1506	1-216-657-11	METAL CHIP	47K 0.50% 1/10W
R550	1-216-354-11	METAL OXIDE	2.7 5% 1W F	R1507	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R552	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R1508	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R553	1-216-091-00	METAL GLAZE	56K 5% 1/10W	R1509	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R554	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1510	1-249-425-11	CARBON	4.7K 5% 1/4W F
R555	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R1511	1-216-033-00	METAL GLAZE	220 5% 1/10W
R556	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R1512	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R557	1-216-049-00	METAL GLAZE	4.7K 5% 1/10W	R1513	1-216-017-00	METAL GLAZE	47 5% 1/10W
R559	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R1519	1-216-031-00	METAL GLAZE	180 5% 1/10W
R560	1-216-037-00	METAL GLAZE	350 5% 1/10W	R1520	1-216-057-00	METAL GLAZE	22K 5% 1/10W
R561	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R1601	1-216-685-11	METAL CHIP	27K 0.50% 1/10W
R562	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R1602	1-216-681-11	METAL CHIP	18K 0.50% 1/10W
R563	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R1603	1-216-671-11	METAL CHIP	6.8K 0.50% 1/10W
R564	1-249-410-11	CARBON	270 5% 1/4W F	R1604	1-249-433-11	CARBON	22K 5% 1/4W F
R565	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W	R1605	1-216-070-00	METAL GLAZE	7.5K 5% 1/10W
R566	1-216-025-00	METAL GLAZE	100 5% 1/10W	R1606	1-216-070-00	METAL GLAZE	7.5K 5% 1/10W
R567	1-216-095-00	METAL GLAZE	82K 5% 1/10W	R1607	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R568	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	R1608	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R569	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	R1609	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R570	1-216-093-00	METAL GLAZE	68K 5% 1/10W	R1610	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R571	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R1611	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R572	1-216-095-00	METAL GLAZE	82K 5% 1/10W	R1612	1-216-913-11	METAL OXIDE	220 5% 3W F
R573	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	R1613	1-216-025-00	METAL GLAZE	100 5% 1/10W
R574	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	R1614	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R575	1-216-105-00	METAL GLAZE	220K 5% 1/10W	R1615	1-216-657-11	METAL CHIP	1.8K 0.50% 1/10W
R576	1-216-109-00	METAL GLAZE	350K 5% 1/10W	R1616	1-216-629-11	METAL CHIP	120 0.50% 1/10W
R577	1-216-105-00	METAL GLAZE	220K 5% 1/10W	R1617	1-216-659-11	METAL CHIP	2.2K 0.50% 1/10W
R578	1-249-457-11	CARBON	6.8 5% 1/4W F	R1618	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R579	1-249-457-11	CARBON	6.8 5% 1/4W F	R1620	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R580	1-216-001-00	METAL GLAZE	10 5% 1/10W	R1621	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R591	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	R1622	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R592	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1623	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R593	1-216-045-00	METAL GLAZE	1K 5% 1/10W	R1624	1-216-246-00	METAL GLAZE	100K 5% 1/8W
R594	1-216-075-00	METAL GLAZE	12K 5% 1/10W	R1625	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R595	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R1626	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R596	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W	R1627	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R597	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1628	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R598	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1629	1-216-683-11	METAL CHIP	22K 0.50% 1/10W
R599	1-216-075-00	METAL GLAZE	12K 5% 1/10W	R1630	1-216-683-11	METAL CHIP	22K 0.50% 1/10W
R600	1-216-065-00	METAL GLAZE	1K 5% 1/10W	R1631	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R601	1-216-091-00	METAL GLAZE	3.9K 5% 1/10W	R1632	1-216-042-00	METAL GLAZE	510 5% 1/10W
R602	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1633	1-216-109-00	METAL GLAZE	330K 5% 1/10W
R603	1-216-093-00	METAL GLAZE	68K 5% 1/10W	R1634	1-216-099-00	METAL GLAZE	120K 5% 1/10W
R604	1-216-093-00	METAL GLAZE	68K 5% 1/10W	R1635	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R605	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R1636	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R606	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R1640	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W
R607	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1641	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R608	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R1642	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R609	1-216-669-11	METAL CHIP	5.6K 0.50% 1/10W	R1643	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R610	1-216-675-11	METAL CHIP	10K 0.50% 1/10W	R1644	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R611	1-216-105-00	METAL GLAZE	220K 5% 1/10W	R1645	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R612	1-216-754-11	METAL CHIP	120K 0.50% 1/10W	R1646	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R613	1-216-697-11	METAL CHIP	82K 0.50% 1/10W	R1647	1-216-685-11	METAL CHIP	27K 0.50% 1/10W
R614	1-216-688-11	METAL CHIP	150K 0.50% 1/10W	R1648	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R615	1-216-686-11	METAL CHIP	30K 0.50% 1/10W	R1649	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R616	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R1650	1-216-065-00	METAL GLAZE	6.8K 5% 1/10W
R617	1-216-435-00	METAL OXIDE	3.9K 52 1W F	R1651	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R618	1-216-629-11	METAL CHIP	15K 0.50% 1/10W	R1652	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R619	1-216-672-11	METAL CHIP	7.5K 0.50% 1/10W	R1653	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R620	1-216-675-11	METAL CHIP	10K 0.50% 1/10W	R1654	1-216-681-11	METAL CHIP	18K 0.50% 1/10W
R621	1-216-676-11	METAL CHIP	7.5K 0.50% 1/10W				

D Hb S

The components identified by **D** in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

Les composants identifiés par **D** dans ce manuel ont été soigneusement sélectionnés pour chaque ensemble afin de répondre aux régulations concernant la radiation X. En cas de remplacement, remplacer uniquement avec la valeur indiquée initialement.

The components identified by **S** shading and mark **S** are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R1655	1-216-081-00	METAL GLAZE	22K 5% 1/10W				
R1656	1-216-643-11	METAL CHIP	470 0.50% 1/10W				
R1657	1-216-081-00	METAL GLAZE	22K 5% 1/10W				
R1658	1-216-053-00	METAL GLAZE	3.9K 5% 1/10W				
R1659	1-216-049-00	METAL GLAZE	1K 5% 1/10W				
R1660	1-216-649-11	METAL CHIP	820 0.50% 1/10W				
R1661	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W				
<VARIABLE RESISTOR>							
RV501	1-238-019-11	RES. ADJ. CARBON 47K		RV001	1-241-846-11	RES. VAR. CARBON 20K	
RV502	1-238-017-11	RES. ADJ. CARBON 22K		RV002	1-241-846-11	RES. VAR. CARBON 20K	
RV503	1-241-763-11	RES. ADJ. CERMBT 4.7K		RV003	1-241-845-11	RES. VAR. CARBON 20K	
RV504	1-224-250-XK	RES. ADJ. METAL GLAZE 2.2K		RV004	1-241-845-11	RES. VAR. CARBON 20K	
RV505	1-238-009-11	RES. ADJ. CARBON 220		RV005	1-241-845-11	RES. VAR. CARBON 20K	
<SWITCH>							
SV001	1-554-419-00	SWITCH, PUSH (1 KEY)					
SV003	1-554-419-00	SWITCH, PUSH (1 KEY)					
SV004	1-554-419-00	SWITCH, PUSH (1 KEY)					
SV005	1-554-419-00	SWITCH, PUSH (1 KEY)					
*A-1390-277-C S BOARD, COMPLETE							
*3-738-015-01 COVER, (DIA. 6) CARBON VR							
<CAPACITOR>							
C1101	1-163-119-00	CERAMIC CHIP 120PF	5% 50V				
C1102	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V				
C1103	1-126-589-11	ELECT. 47MFR	20% 16V				
C1104	1-163-031-11	CERAMIC CHIP 0.01MF	5% 50V				
C1105	1-163-114-00	CERAMIC CHIP 75PF	5% 50V				
C1106	1-163-101-00	CERAMIC CHIP 22PF	5% 50V				
C1107	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V				
C1108	1-163-119-00	CERAMIC CHIP 120PF	5% 50V				
C1109	1-163-031-11	CERAMIC CHIP 0.01MF	5% 50V				
C1110	1-163-117-00	CERAMIC CHIP 100PF	5% 50V				
C1111	1-163-018-00	CERAMIC CHIP 0.0056MF	10% 50V				
C1112	1-126-160-11	ELECT. 1MF	20% 50V				
C1113	1-163-119-00	CERAMIC CHIP 120PF	5% 50V				
C1114	1-163-103-00	CERAMIC CHIP 27PF	5% 50V				
C1115	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V				
C1116	1-163-114-00	CERAMIC CHIP 75PF	5% 50V				
C1117	1-126-589-11	ELECT. 47MFR	20% 16V				
C1118	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V				
C1119	1-163-020-00	CERAMIC CHIP 0.0082MF	10% 50V				
C1120	1-163-097-00	CERAMIC CHIP 15PF	5% 50V				
C1121	1-163-097-00	CERAMIC CHIP 15PF	5% 50V				
C1122	1-163-222-11	CERAMIC CHIP 5PF	0.25MF 50V				
C1123	1-163-097-00	CERAMIC CHIP 15PF	5% 50V				
C1130	1-163-097-00	CERAMIC CHIP 15PF	5% 50V				
C1131	1-163-097-00	CERAMIC CHIP 15PF	5% 50V				
<CONNECTOR>							
CN1101*1-565-488-11 CONNECTOR, BOARD TO BOARD 12P							
<DIODE>							
D1101	8-719-404-46	DIODE MA110					
D1102	8-719-404-46	DIODE MA110					
<IC>							
IC1101	8-752-056-67	IC CXA1214P					
<COIL>							
R001	1-247-713-11	CARBON	1K 5% 1/4W				
R002	1-216-295-00	METAL GLAZE	0 5% 1/10W				

Components identified by  
nd mark  are criti-  
fety.  
only with part number

Les composants identifiés par une trame et une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

S G

RT NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK	
408-411-00	INDUCTOR	15UH					
404-496-00	COIL				G BOARD (SOPS-1021)		
404-496-00	COIL				*****		
408-411-00	INDUCTOR	15UH					
412-008-31	INDUCTOR CHIP	15UH			A4-312-154-11 RIVET NYLON 5.5#		
412-008-31	INDUCTOR CHIP	15UH					
<b>&lt;TRANSISTOR&gt;</b>							
729-216-22	TRANSISTOR 2SA1162-G		C601	A-1-136-889-11	METALIZED FILM 0.22MF	201	
729-920-74	TRANSISTOR 2SC2412K-QR		C602	A-1-136-889-11	METALIZED FILM 0.22MF	202	
729-216-22	TRANSISTOR 2SA1162-G		C603	A-1-161-973-51	CERAMIC 220PF	103	
729-216-22	TRANSISTOR 2SA1162-G		C604	A-1-161-973-51	CERAMIC 220PF	103	
729-901-01	TRANSISTOR DTC144EK		C605	A-1-161-973-51	CERAMIC 220PF	103	
729-901-01	TRANSISTOR DTC144EK		C608	A-1-161-742-51	CERAMIC 0.022MF	202	
729-109-44	TRANSISTOR 2SK94-X4		C609	A-1-161-742-51	CERAMIC 0.022MF	202	
729-920-74	TRANSISTOR 2SC2412K-QR		C610	A-1-125-724-11	ELECT 180MF	202	
			C611	A-1-136-206-21	METALIZED FILM 0.033MF	103	
			C612	A-1-124-910-51	ELECT 47MF	202	
<b>&lt;RESISTOR&gt;</b>							
216-053-00	METAL GLAZE	1.5K 5%	1/10W	C613	A-1-137-190-91	METALIZED FILM 0.22MF	52
216-067-00	METAL GLAZE	5.6K 5%	1/10W	C614	A-1-137-190-91	METALIZED FILM 0.22MF	52
216-059-00	METAL GLAZE	2.7K 5%	1/10W	C615	A-1-130-471-91	PE TEREPHTHALATE 0.01MF	52
216-073-00	METAL GLAZE	10K 5%	1/10W	C651	A-1-161-925-11	CERAMIC 100PF B	103
216-031-00	METAL GLAZE	180 5%	1/10W	C652	A-1-128-486-51	ELECT 680MF	202
216-059-00	METAL GLAZE	2.7K 5%	1/10W	C653	A-1-128-485-51	ELECT 220MF	202
216-071-00	METAL GLAZE	8.2K 5%	1/10W	C654	A-1-130-483-91	PE TEREPHTHALATE 0.01MF	52
216-039-00	METAL GLAZE	390 5%	1/10W				
216-063-00	METAL GLAZE	3.9K 5%	1/10W				
216-069-00	METAL GLAZE	6.8K 5%	1/10W				
216-065-00	METAL GLAZE	4.7K 5%	1/10W				
216-059-00	METAL GLAZE	2.7K 5%	1/10W				
216-069-00	METAL GLAZE	6.8K 5%	1/10W				
216-069-00	METAL GLAZE	3.9K 5%	1/10W				
216-065-00	METAL GLAZE	1.8K 5%	1/10W				
216-061-00	METAL GLAZE	3.3K 5%	1/10W				
216-069-00	METAL GLAZE	6.8K 5%	1/10W				
216-061-00	METAL GLAZE	3.3K 5%	1/10W				
216-069-00	METAL GLAZE	6.8K 5%	1/10W				
216-061-00	METAL GLAZE	3.3K 5%	1/10W				
216-073-00	METAL GLAZE	10K 5%	1/10W				
216-049-00	METAL GLAZE	1K 5%	1/10W				
216-097-00	METAL GLAZE	100K 5%	1/10W				
216-121-00	METAL GLAZE	1M 5%	1/10W				
216-039-00	METAL GLAZE	390 5%	1/10W				
216-065-00	METAL GLAZE	4.7K 5%	1/10W				
216-029-00	METAL GLAZE	150 5%	1/10W				
216-029-00	METAL GLAZE	150 5%	1/10W				
216-053-00	METAL GLAZE	1.5K 5%	1/10W				
216-043-00	METAL GLAZE	560 5%	1/10W				
216-049-00	METAL GLAZE	1K 5%	1/10W				
216-091-00	METAL GLAZE	56K 5%	1/10W				
216-295-00	METAL GLAZE	0 5%	1/10W				
216-073-00	METAL GLAZE	10K 5%	1/10W				
216-073-00	METAL GLAZE	10K 5%	1/10W				
216-073-00	METAL GLAZE	10K 5%	1/10W				
216-091-00	METAL GLAZE	56K 5%	1/10W				
<b>&lt;VARIABLE RESISTOR&gt;</b>							
238-015-11	RES. ADJ.						
238-013-11	RES.						
<b>&lt;TRANSISTOR&gt;</b>							
729-729-322-18	TRANSISTOR 2SN1402A						
<b>&lt;RESISTOR&gt;</b>							

- The components identified by **█** in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

Les composants identifiés par une trame et une marque **█** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark **▲** are critical for safety. Replace only with part number specified.

RT NO.	DESCRIPTION	REMARK
--------	-------------	--------

212-865-61	FUSIBLE CARBON	22 5% 1/4W F
247-805-91	CARBON	82 5% 1/4W
260-128-91	CARBON	270K 5% 1/2W
260-128-91	CARBON	270K 5% 1/2W
215-904-51	METAL OXIDE	100K 5% 2W F

207-455-11	WIRE	0.22 10% 1/2W
247-789-91	CARBON	18 5% 1/4W
247-795-91	CARBON	33 5% 1/4W
215-904-51	METAL OXIDE	100K 5% 2W F
247-815-91	CARBON	220 5% 1/4W

215-886-51	METAL OXIDE	100 5% 2W F
215-885-51	METAL OXIDE	100 5% 2W F
260-107-91	CARBON	1.7K 5% 1/2W
260-107-91	CARBON	4.7K 5% 1/2W
247-867-91	CARBON	33K 5% 1/4W

247-867-91	CARBON	33K 5% 1/4W
247-837-91	CARBON	1.8K 5% 1/4W

## &lt;VARIABLE RESISTOR&gt;

237-913-11 RGS1 ADJ/CARBON IX

## &lt;TRANSFORMER&gt;

150-780-12 TRANSFORMER CONVERTER

\*\*\*\*\*  
MISCELLANEOUS  
\*\*\*\*\*

413-720-21	SWITCHING REGULATOR (SOP8-102L)
426-614-11	COIL, DEMAGNETIZATION
451-325-11	DEFLECTION YOKA (Y06J/A2)
452-126-11	MAGNET
543-925-11	CORE, FERRITE

544-252-11	SPEAKER
576-232-11	FUSE, 1A, 250V
923-183-01	WIRE UL1007 AWG18 50MM BLK
733-921-05	TERM-060W

\*\*\*\*\*  
ACCESSORIES & PACKING MATERIALS  
\*\*\*\*\*

## RT NO.      DESCRIPTION      REMARK

590-910-11	CORD SET, POWER (10A/250V)	
590-871-11	CABLE (MINI DIN) 8P	
390-241-02	HOLDER (A), PLUG	
170-078-01	HOLDER (B), PLUG	
755-607-11	MANUAL, INSTRUCTION	

336-595-01	INDIVIDUAL CARTON	
336-599-01	CUSHION (LOWER) (ASSY)	
336-600-01	CUSHION (UPPER) (ASSY)	

-100-

**PVM-6041QM****SONY.  
SERVICE MANUAL***AEP Model  
Chassis No. SCC-F09D-A***CORRECTION-2**

Correct the service manual as shown below.  
File this collection with the service manual.

 : Corrected portion
**SECTION 7 EXPLODED VIEWS****7-1. CHASSIS (See page 76)**

Incorrect	Correct
 : +P4×25 7-685-567-09	 : +P4×25 7-682-567-09
—	<b>PART. NO.</b> 1-941-906-07 <b>DESCRIPTION</b> CONNECTOR ASSY, VH 3P <small>(DC12V IN Jack)</small>

**SECTION 8 ELECTRICAL PARTS LIST (See page 88)****D BOARD**

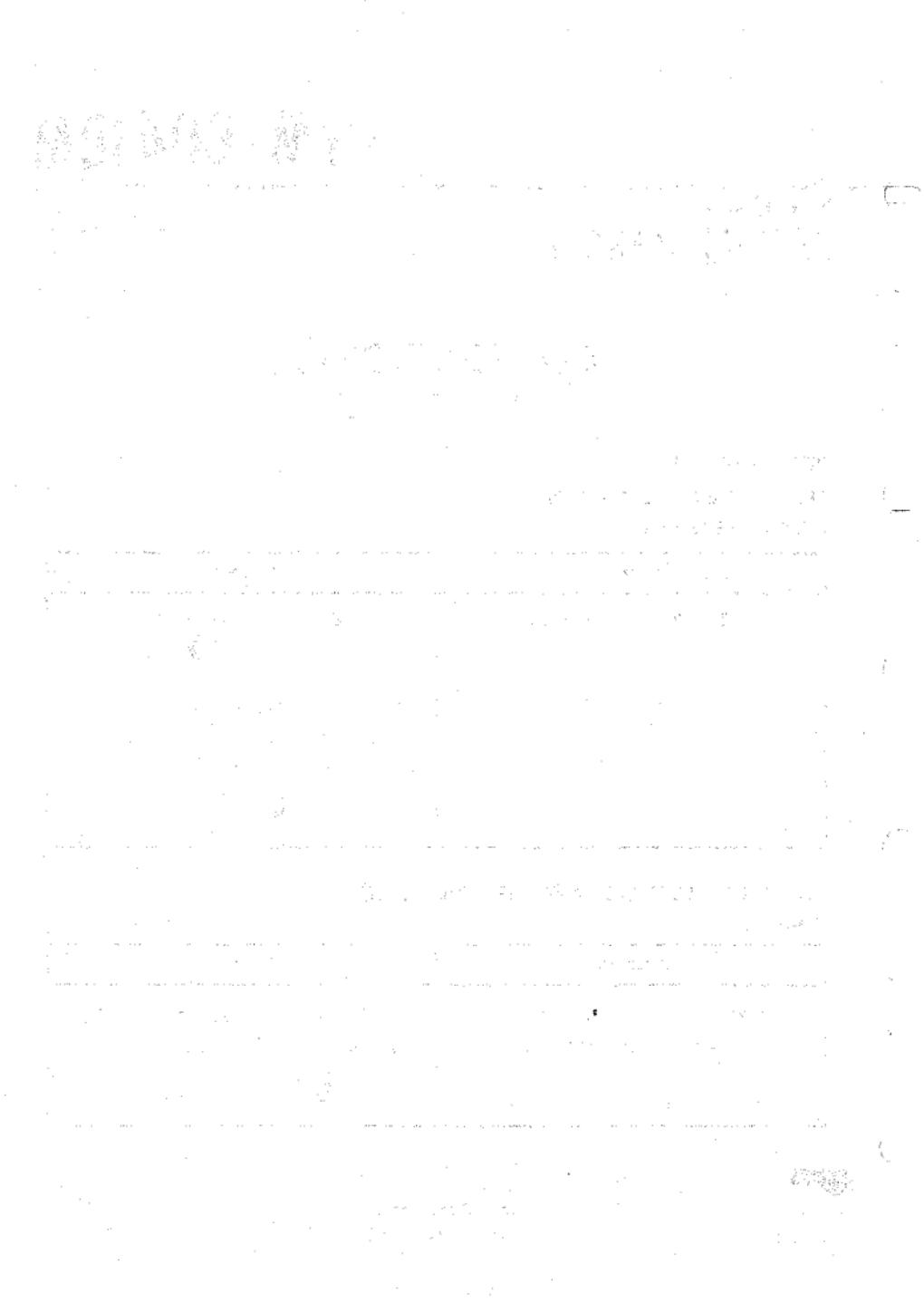
Incorrect	Correct
<b>PART. NO.</b> * A-1341-562-A <b>DESCRIPTION</b> D BOARD, COMPLETE	<b>PART. NO.</b> * A-1346-067-A <b>DESCRIPTION</b> D BOARD, COMPLETE



9-978-298-93

**Sony Corporation**  
Display Products Group

English  
93JL0510-1  
Printed in Japan  
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**SONY.**  
**SERVICE MANUAL**
*AEP Model*
*Chassis No. SCC-F09D-A*

## SUPPLEMENT-1

### INTRODUCTION

- B board : The transistor is changed to the pair transistor (Q189).  
The diodes are changed to the three-terminal diodes (D185, D186, D187, D188, D191, D390 and D1382).
- D board : The transistors are changed to the pair transistors (Q569, Q576, Q579 and Q599).  
The diodes are changed to the three-terminal diodes (D520, D521, D589, D848, D1620, D1622 and D1623).
- S board : The pattern is modified.

Note)

Before using the circuit board, confirm that the parts number shown below and the parts number of the circuit board which is being used in your set are the same.

Board (Complete No.)	Board Part No.
B (A-1135-726-A)	1-641-716-15
D (A-1346-067-A)	1-641-717-16
S (A-1394-392-A)	1-641-719-15



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	S Board .....	4
	D Board .....	7
	B Board .....	16
<b>2. ELECTRICAL PARTS LIST</b> ..... 31		

## (CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

## WARNING!!

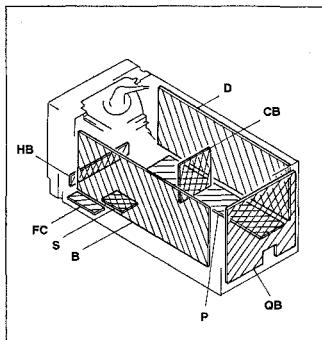
AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.  
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

## SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK ▲ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

## SECTION 1 DIAGRAMS

### 1-1. CIRCUITS BOARDS LOCATION



### 1-2. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

#### Note:

- All capacitors are in  $\mu F$  unless otherwise noted. PF:  $\mu PF$   
50  $\mu V$  or less are not indicated except for electrolytic.
- Indication of resistance, which does not have one for rating electrical power, is as follows:

Pitch: 5 mm  
Rating electrical power  $\frac{1}{4} W$

- All resistors are in ohms.
- : nonflammable resistor.
- : fusible resistor.
- : internal component.
- : panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- The resistors identified by in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by and repeat the adjustment until the specified value is achieved. (Refer to RV651, RV1603 and RV33 adjust on page 18 and 19.)
- When replacing the part in below table be sure to perform the related adjustment.

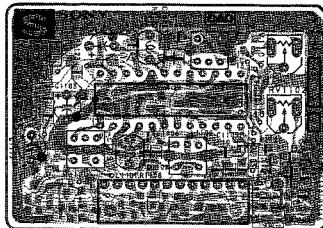
Part replaced (■)	Adjustment (□)
IC601, IC651, PH602, C655, R653, R655, R656, R657, RV881	RV651 (B+ MAX)
Q1601, Q1602, Q1603, Q1601, D1603, D1622, C1601, C1602, R1604, R1605, R1606, R1607, R1608, R1628, R1629, R1630, RV1601, RV1603	RV1603 (B+ MAX IN DC POWER INPUT MODE)
IC652, Q833, Q834, Q835, Q836, D833, D836, C830, C843, C844, C845, C846, C847, C848, RV853, RS28, RS50, RS81, RS82, RS83, RS84, RS85, RS86, RS87, RS88, RS89, RS91, RS92, RS93, RS801	R833 (HOLD-DOWN)

- All voltages are in V.
- Voltage are dc with respect to ground unless otherwise noted.
- Readings are taken with a color-bar signal input.
- Readings are taken with a PAL color-bar signal input.
- : adjustment for repair.
- Voltage variations may be noted due to normal production tolerance.
- : B+ bus.
- : B- bus.
- : signal path.
- No mark: with PAL color-bar signal received or common voltage.
- ( ) : with SECAM color-bar signal received.
- < > : with NTSC 3.58 color-bar signal received.
- ( ) : with NTSC 4.43 color-bar signal received.
- [ ] : with S(Y/C) color-bar signal received.
- ( ) : with analog RGB color-bar signal received.
- < > : with component color-bar signal received.
- ( ) : measurement impossibility

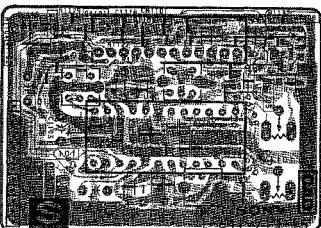
Reference Information	
RESISTOR	: RV METAL FILM
	: RC SOLID
	: PRFD NONFLAMMABLE CARBON
	: FUSE NONFLAMMABLE FUSIBLE
	: RS NONFLAMMABLE WIREWOUND
	: RB NONFLAMMABLE CEMENT
COIL	: LF-BL MICRO INDUCTOR
CAPACITOR	: TA TANTALUM
	: PS STYROL
	: PP POLYPROPYLENE
	: PT MYLAR
	: MPS METALIZED POLYESTER
	: MPP METALIZED POLYPROPYLENE
	: ALB BIPOLEAR
	: ALT HIGH TEMPERATURE
	: ALR HIGH RIPPLE

**S** [SECAM DEMODULATION]

— S Board — — Component Side —

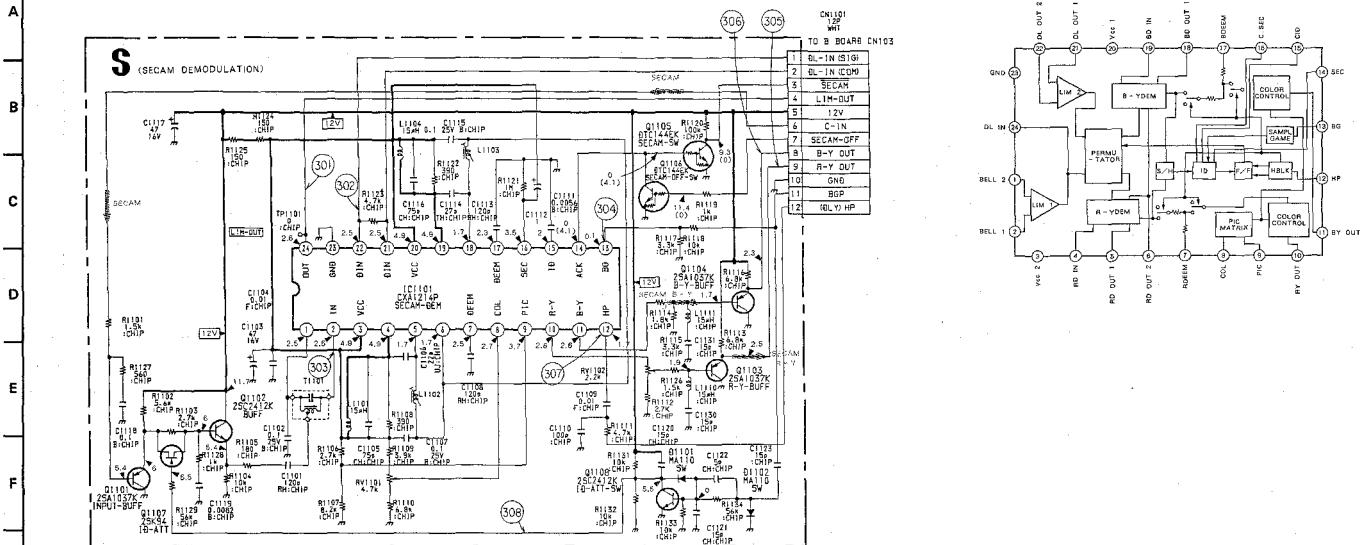
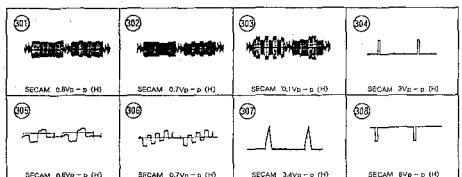


— S Board — — Conductor Side —



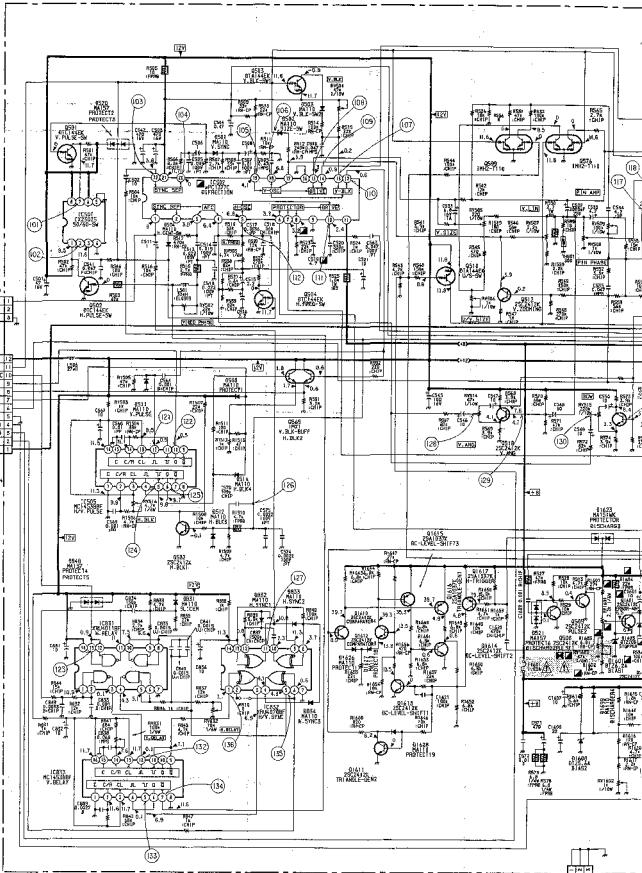
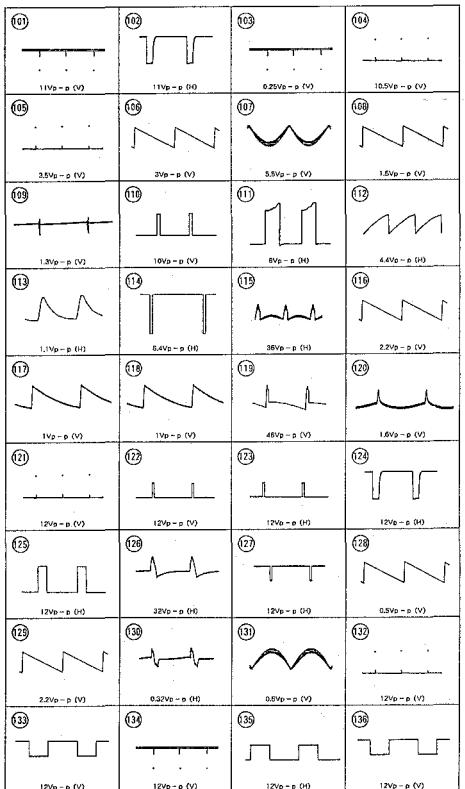
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

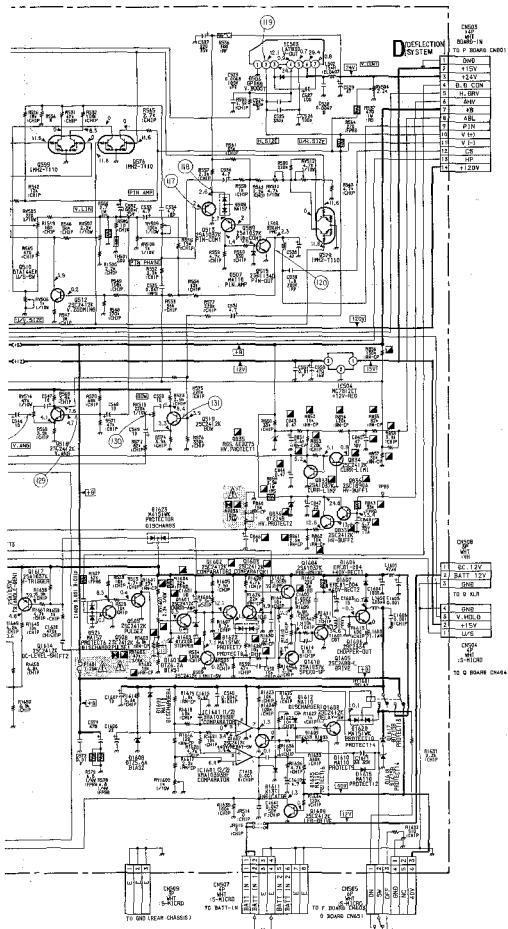
S Board IC1101 CXA1214P

**• S BOARD WAVEFORMS**

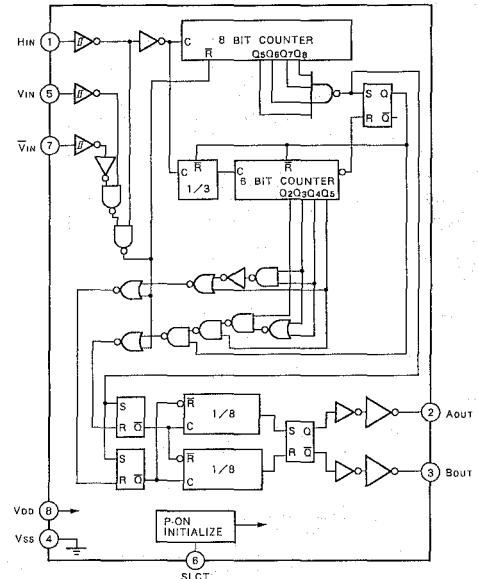
1    2    3    4    5    6    7    8    9    10    11    12    13    14    15    16    17

• D BOARD WAVEFORMS

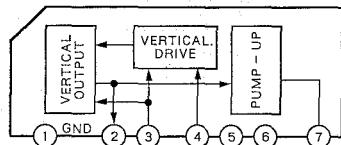




D BOARD IC501 CX23025

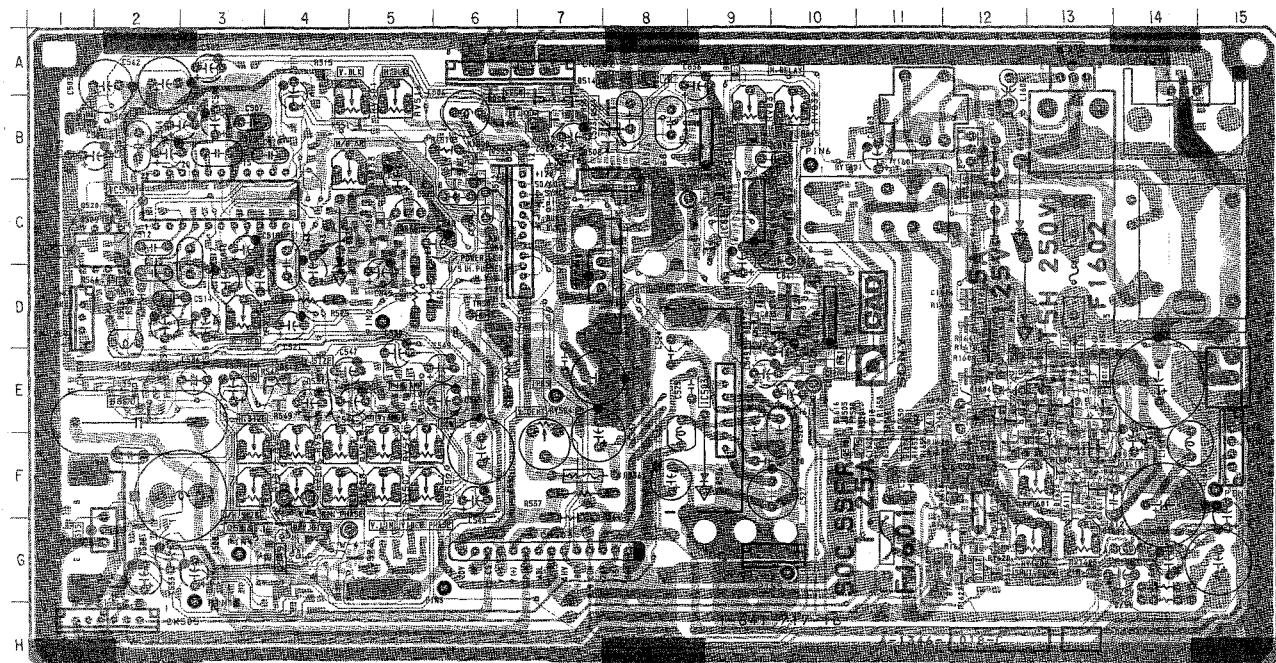


D BOARD IC503 LA7830



#### D [DEFLECTION SYSTEM]

- D Board - - Component Side -



-  : Pattern from the side which enables seeing.
  -  : Pattern of the rear side.

D Board (Component Side)

IC
IC505 C - 8
IC831 D - 10
IC832 B - 9
IC833 C - 9
IC1501 E - 12

#### TRANSISTOR

Q505	F - 12
Q508	F - 12
Q509	E - 12
Q512	E - 4
Q532	E - 6
Q576	G - 5
Q579	G - 4
Q599	E - 2
Q1607	G - 12
Q1610	E - 13
Q1611	F - 13
Q1812	E - 13
Q1813	F - 13
Q1614	F - 13
Q1615	E - 13
Q1616	E - 13
Q1617	E - 13
Q1618	O - 12

DIODE

D508	A - 6
D512	C - 6
D514	A - 7
D520	C - 2
D521	F - 12
D833	A - 8
D834	A - 9
D836	C - 5
D846	D - 10
D1809	G - 12
D1810	G - 10
D1826	F - 13
D1827	F - 13
D1828	F - 13

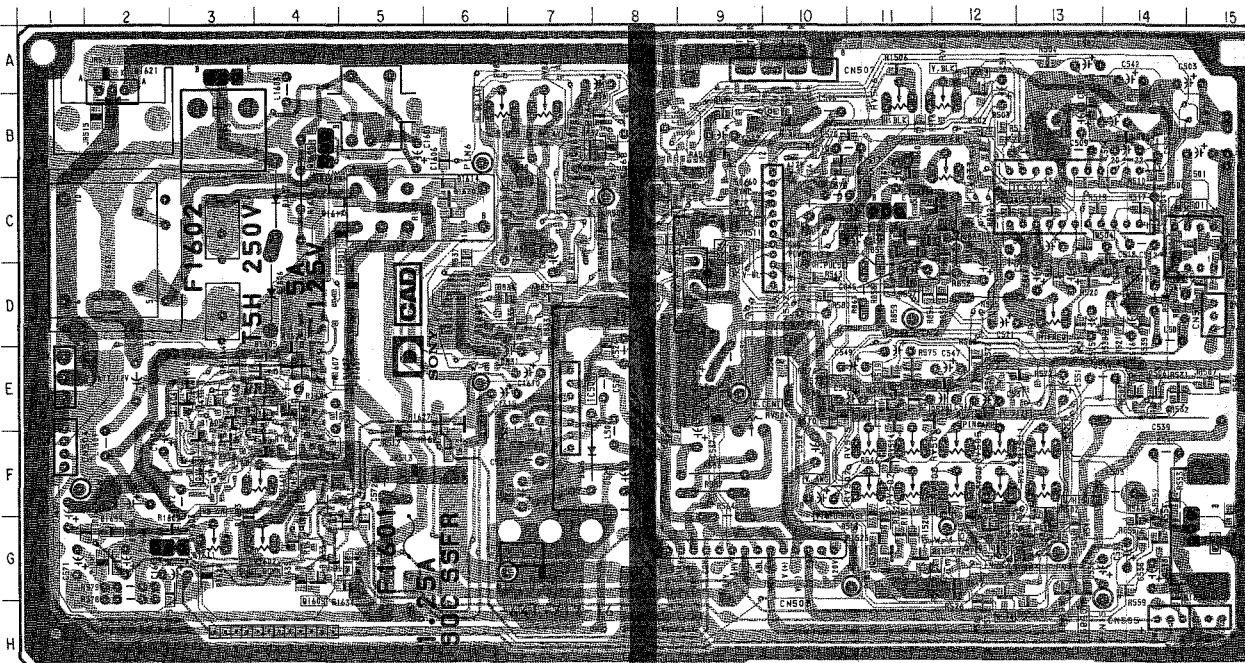
— D Board — — Conductor Side —

D Board (Component Side)

IC
IC505 C - 8
IC831 D - 10
IC832 B - 9
IC833 C - 9
IC1601 F - 12

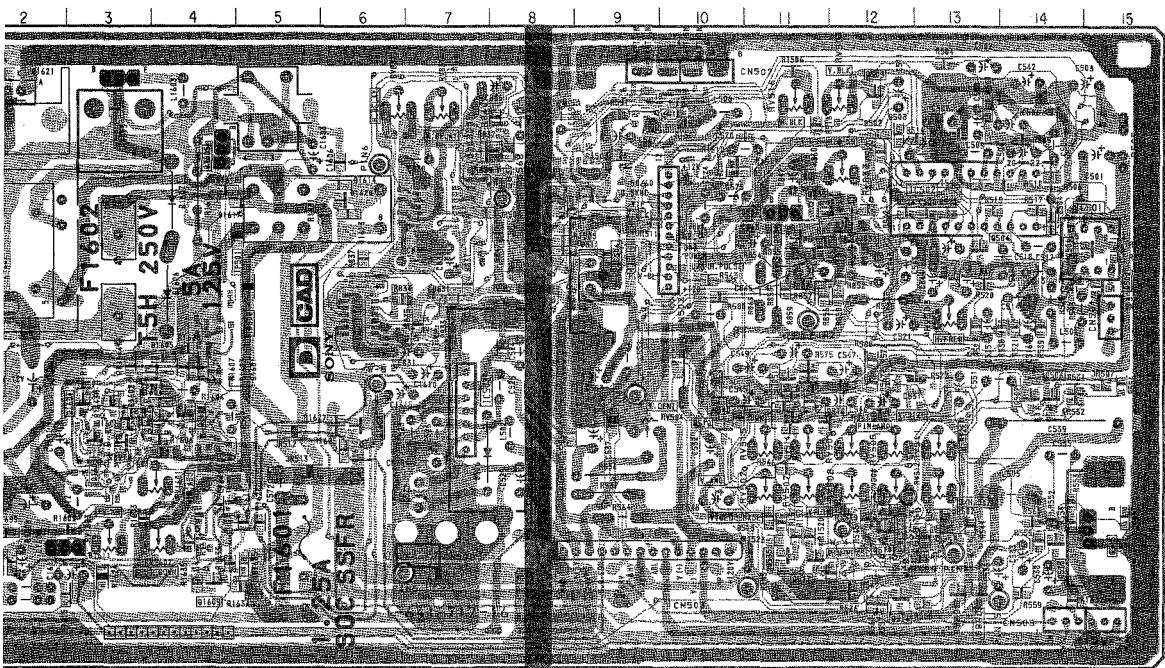
TRANSISTOR
QS01 F - 12
QS05 E - 12
QS09 E - 12
QS12 E - 4
QS32 B - 6
C576 G - 5
Q376 G - 4
QS80 E - 12
Q1607 E - 12
Q1510 E - 13
Q1611 F - 13
Q1612 E - 13
Q1613 F - 13
Q1614 E - 13
Q1615 E - 13
Q1616 E - 13
Q1617 E - 13
Q1618 D - 12

DIODE
D508 A - 8
D512 C - 8
D514 A - 2
D520 E - 2
D521 F - 12
D533 A - 8
C534 A - 9
D836 C - 5
D946 D - 10
D1606 E - 12
D1610 G - 10
D1826 F - 13
D1627 F - 13
D1828 F - 13



- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

ctor Side -



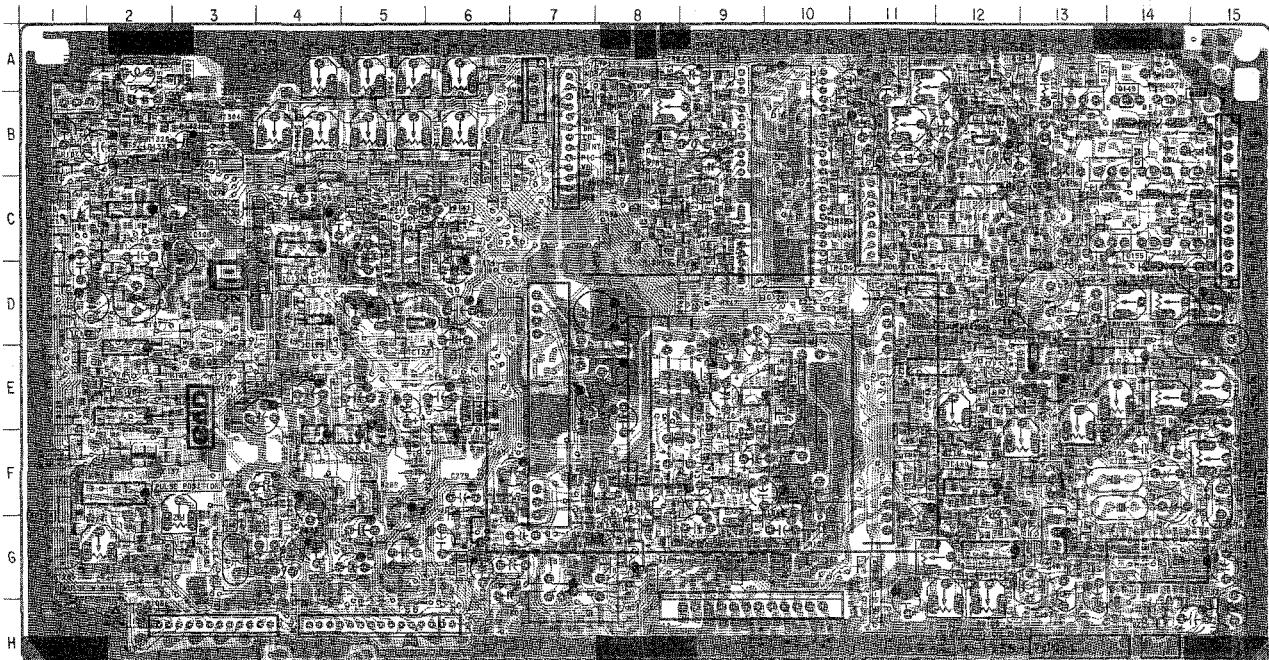
- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

## D Board (Conductor Side)

<b>IC</b>	D835 C - 12 D1601 E - 4 D1602 E - 4 D1603 E - 4 D1607 C - 4 D1608 G - 2 D1611 G - 3 D1612 F - 8 D1615 G - 2 D1616 G - 2 D1618 G - 2 D1620 G - 6 D1622 E - 4 D1623 F - 3 D1635 G - 5 D1689 G - 2
<b>TRANSISTOR</b>	Q501 C - 15 Q502 C - 13 Q503 E - 7 Q504 D - 9 Q505 C - 12 Q506 C - 13 Q507 E - 10 Q508 G - 14 Q509 C - 15 Q510 E - 12 Q511 E - 11 Q512 E - 6 Q513 G - 13 Q514 C - 12 Q515 C - 11 Q516 C - 11 Q517 E - 4 Q518 E - 4 Q519 E - 3 Q520 E - 4 Q521 E - 3 Q522 E - 4 Q523 A - 3 Q524 E - 6 Q525 G - 4
<b>VARIABLE RESISTOR</b>	RV501 B - 12 RV502 D - 11 RV503 D - 18 RV504 G - 9 RV505 F - 12 RV506 F - 12 RV507 F - 11 RV508 F - 12 RV509 F - 12 RV510 F - 12 RV511 F - 3 RV512 F - 3 RV514 F - 11 RV515 F - 11 RV516 B - 11 RV517 B - 11 RV522 B - 4 RV533 B - 4
<b>DIODE</b>	D501 B - 13 D502 B - 12 D503 B - 12 D504 C - 14 D505 F - 7 D507 G - 15 D511 C - 8 D569 G - 13 D831 D - 7 D932 B - 7
	RV1601 F - 4 RV1602 G - 4 RV1603 G - 3

**B** [SIGNAL PROCESS]

- B Board - - Component Side -



B Board (Component Side)

IC	Q189	G = 4
	Q183	C = 5
	Q198	B = 1
IC102	G = 9	Q197
	E = 9	B = 2
IC104	G = 6	Q198
	F = 2	A = 3
IC106	F = 2	Q200
	E = 2	F = 8
IC107	E = 2	Q204
	D = 2	G = 8
IC108	D = 2	Q205
	C = 2	A = 6
IC110	F = 12	Q206
	E = 11	B = 3
IC111	E = 11	Q212
	G = 14	C = 11
IC113	G = 14	Q289
	F = 14	A = 11
IC115	D = 14	
IC116	D = 14	
IC117	F = 6	
IC118	F = 5	
IC119	F = 4	
IC120	C = 4	
IC121	C = 5	
IC122	D = 5	
IC123	D = 4	
IC124	C = 12	
IC125	C = 12	
IC126	C = 12	
IC127	C = 12	
IC128	E = 13	
IC129	B = 4	
		DIODE
		D107 D = 2
		D108 E = 4
		D122 E = 4
		D123 C = 4
		D128 B = 1
		D130 B = 13
		D131 C = 14
		D132 D = 14
		D133 C = 11
		D139 C = 13
		D146 D = 12
		D151 C = 5
		D152 B = 4
		D154 B = 13
Q101	F = 6	D155 C = 13
Q104	G = 10	D157 A = 13
Q109	A = 12	D162 B = 11
Q115	C = 12	D163 C = 9
Q119	E = 12	D181 C = 1
Q121	E = 12	D181 C = 1
Q124	F = 11	D342 D = 12
Q128	G = 3	D343 H = 2
Q132	C = 5	D344 F = 8
Q136	F = 6	D345 A = 14
Q137	F = 6	D346 C = 14
Q138	F = 5	D347 C = 14
Q141	C = 6	D348 B = 14
Q150	G = 8	D349 C = 14
Q184	B = 12	D350 D = 14
Q166	D = 12	D390 D = 1
Q171	F = 9	D393 G = 3
Q176	F = 9	

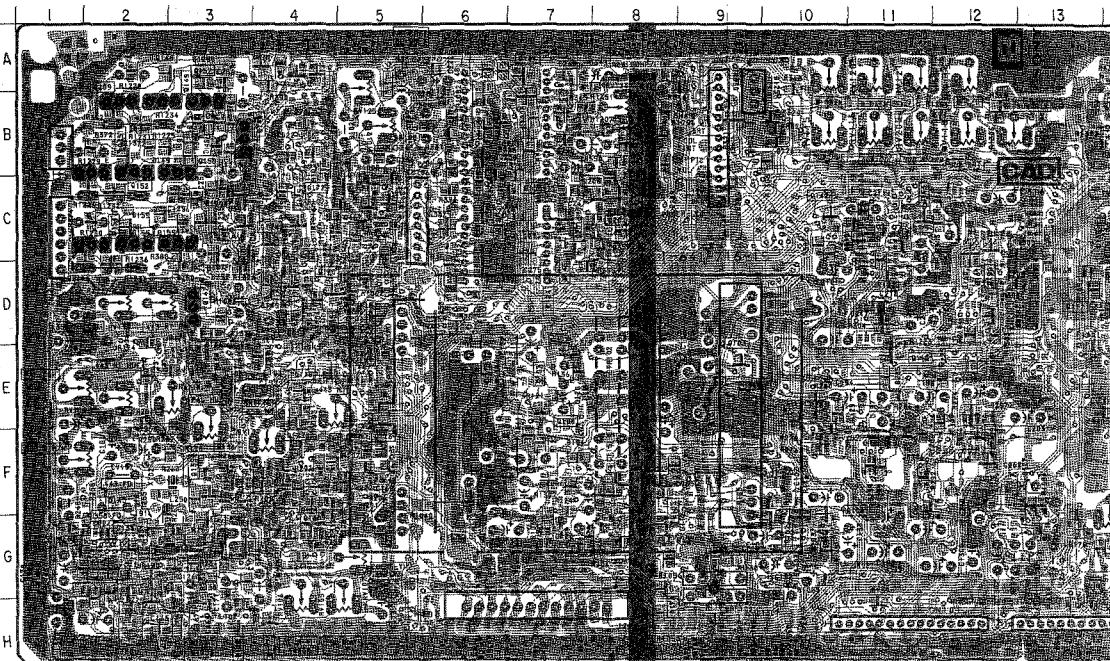
● : Pattern from the side which enables seeing.

● : Pattern of the rear side.

**B Board (Component Side)**

IC	Q189	G-4
IC102	G-9	S-1
IC103	G-8	S-2
IC104	E-9	S-2
IC105	G-6	S-3
IC106	E-2	S-2
IC107	E-2	S-2
IC108	E-2	S-9
IC109	C-2	S-20a
IC110	F-12	A-6
IC111	E-12	S-20b
IC112	E-14	S-21
IC113	E-14	S-29b
IC114	G-12	A-11
VC115	E-14	
IC116	D-11	
IC117	F-6	
IC118	F-12	D107 D-2
IC119	F-4	D121 E-4
IC120	C-4	D122 E-4
IC121	D-5	D123 C-4
IC122	D-5	D128 E-5
IC123	D-4	D130 E-13
IC124	D-5	D131 C-14
IC125	C-12	D132 D-14
IC126	C-12	D137 G-11
IC127	C-12	D138 B-13
IC128	E-13	D139 C-13
IC129	B-4	D140 D-12
TRANSISTOR		D151 C-5
		D152 B-4
Q101	F-6	D153 B-4
Q102	F-6	D154 B-19
Q103	A-12	D155 C-14
Q115	C-1	D157 A-13
Q119	F-12	D162 B-11
Q121	E-12	D166 C-9
Q124	F-11	D191 C-1
Q132	C-5	D242 D-12
Q133	C-5	D348 H-2
Q132	C-5	D344 F-8
Q136	F-6	D345 A-14
Q137	F-5	D346 B-14
Q138	F-5	D347 C-14
Q141	C-6	D348 B-14
Q150	G-8	D349 C-14
Q164	D-12	D350 D-14
Q166	D-12	D390 D-1
Q171	F-9	D393 G-3
Q176	F-9	

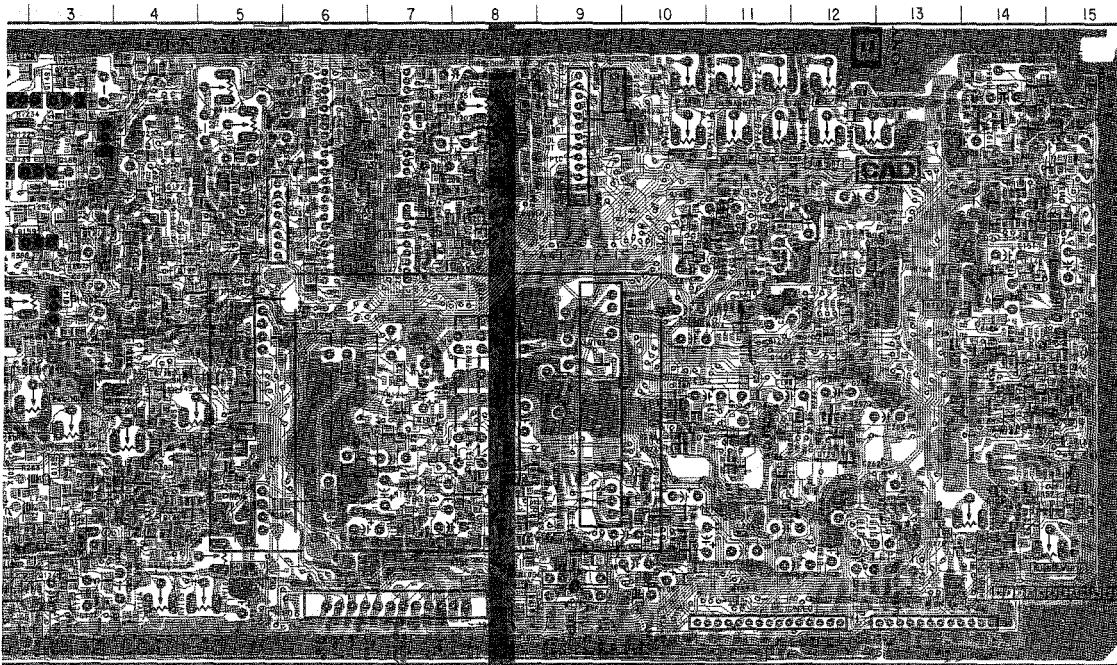
- B Board -- Conductor Side -



• : Pattern from  
• : Pattern of th

side which enables seeing.  
u side.

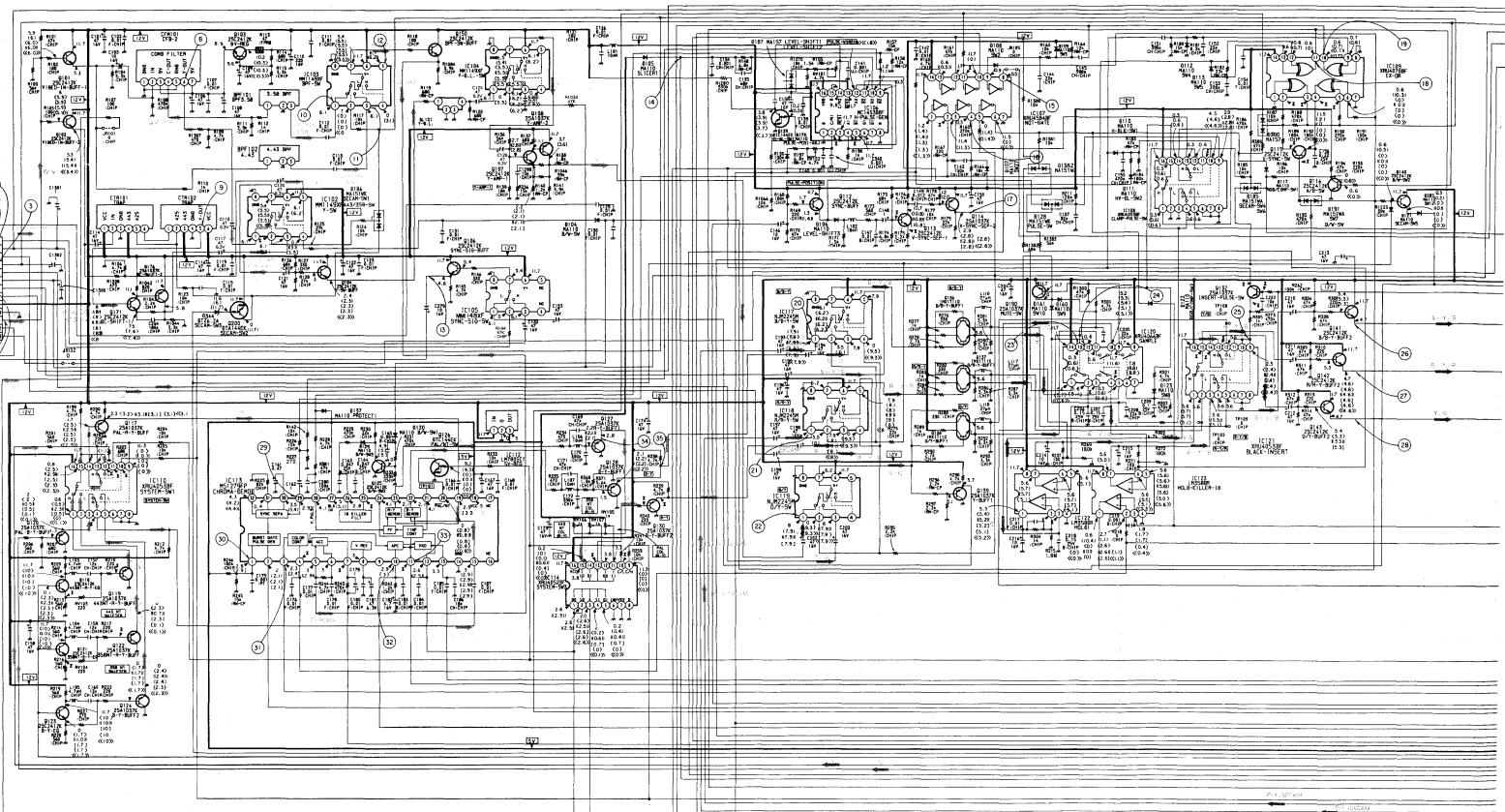
Side --



- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

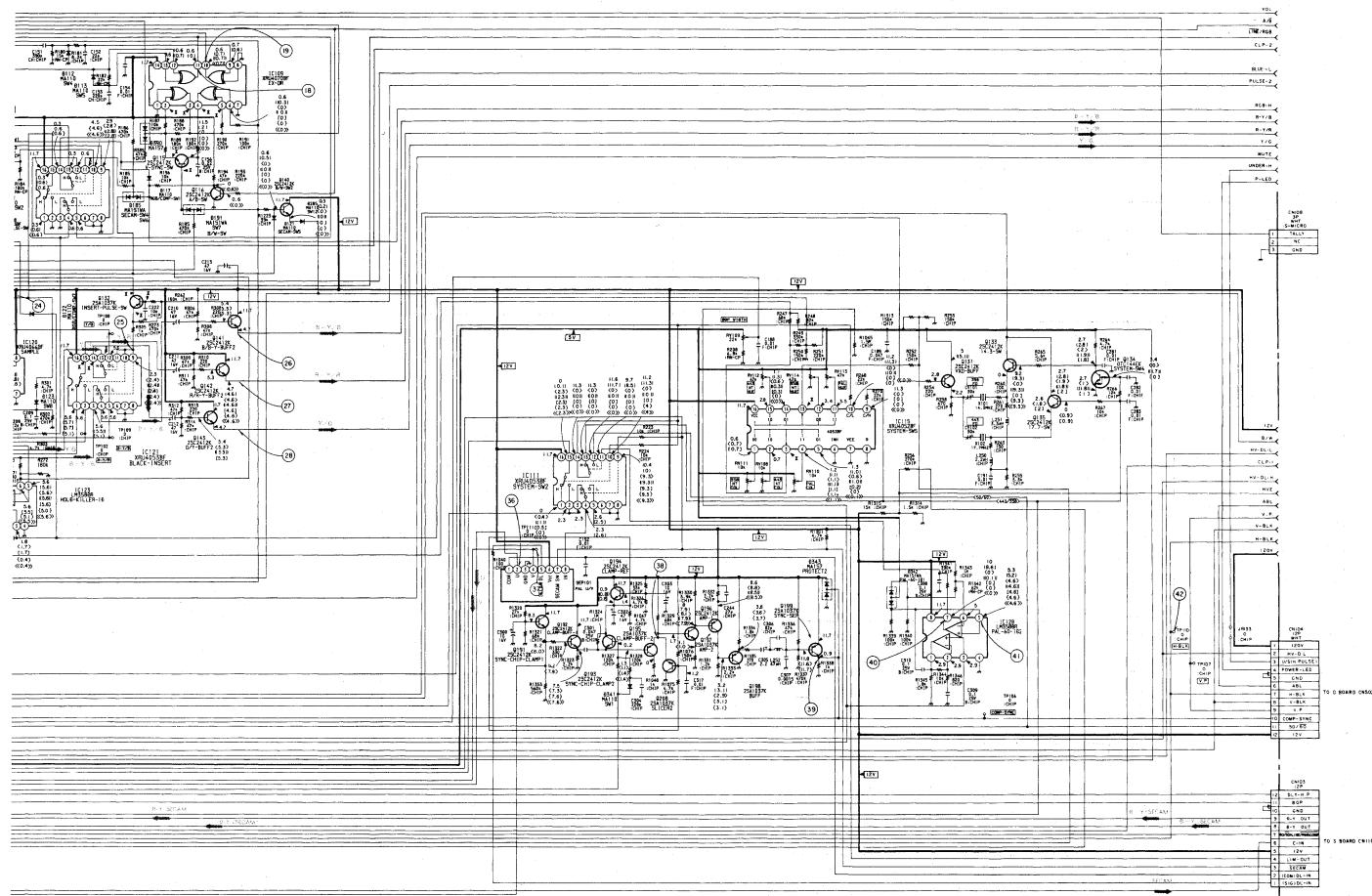
## B Board (Conductor Side)

	IC	C-4	VARIABLE RESISTOR
		C-4	
I112	G-3	Q174 Q175	RV101 G-15 RV102 G-14
I112A	C-7	Q177 Q178	RV103 E-4 RV104 E-4
I102		Q192 Q193	RV105 H-5 RV106 H-4
I104	B-15	Q194 Q195	RV107 G-5 RV108 D-2
I105	B-14	Q196 Q201	RV109 F-1 RV110 E-1
I107	B-15	Q202 Q203	RV111 D-2 RV112 E-2
I108	E-7	Q210 Q211	RV113 F-3 RV114 E-3
I112	D-14		RV115 A-10
I113	D-14		RV116 B-11
I114	E-15		RV117 B-12
I117	F-15		RV118 A-11
I118	E-15	D104 F-T	RV119 B-12
I120	F-4	D105 G-8	RV120 A-11
I122	F-4	D106 D-14	RV121 A-11
I123	F-5	D107 E-14	RV122 A-10
I125	H-2	D109 E-14	RV123 B-8
I126	H-2	D110 F-15	RV124 B-5
I127	H-4	D111 G-15	RV125 A-5
I128	H-3	D112 C-15	RV126 D-11
I130	G-4	D113 C-14	
I131	G-2	D117 E-14	
I133	D-2	D120 F-15	
I134	F-3	D125 A-10	
I135	F-3	D126 B-10	
I139	F-12	D127 F-13	
I140	E-11	D128 H-2	
I142	C-10	D130 B-6	
I143	C-11	D131 C-6	
I144	C-7	D135 D-3	
I145	O-7	D136 D-3	
I146	B-3	D144 D-4	
I147	D-3	D145 D-4	
I148	A-2	D147 A-5	
I149	B-2	D148 B-3	
I151	C-2	D149 C-2	
I152	B-2	D150 D-3	
I153	O-7	D155 B-3	
I154	C-2	D156 B-3	
I155	C-2	D158 C-2	
I157	B-3	D160 D-12	
I158	B-3	D161 G-12	
I159	C-3	D170 G-13	
I160	A-4	D186 E-14	
I161	C-3	D187 F-8	
I165	D-4	D187 G-14	
I167	C-5	D188 H-11	
I168	D-4	D258 B-3	
I170	O-4	D259 B-3	
I172	C-4	D241 B-14	
I173	D-4	D1382 D-12	



**B**  
(1/2)  
(SIGNAL PROCESS)

15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |



-23-

-24-

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

A

B

C

D

E

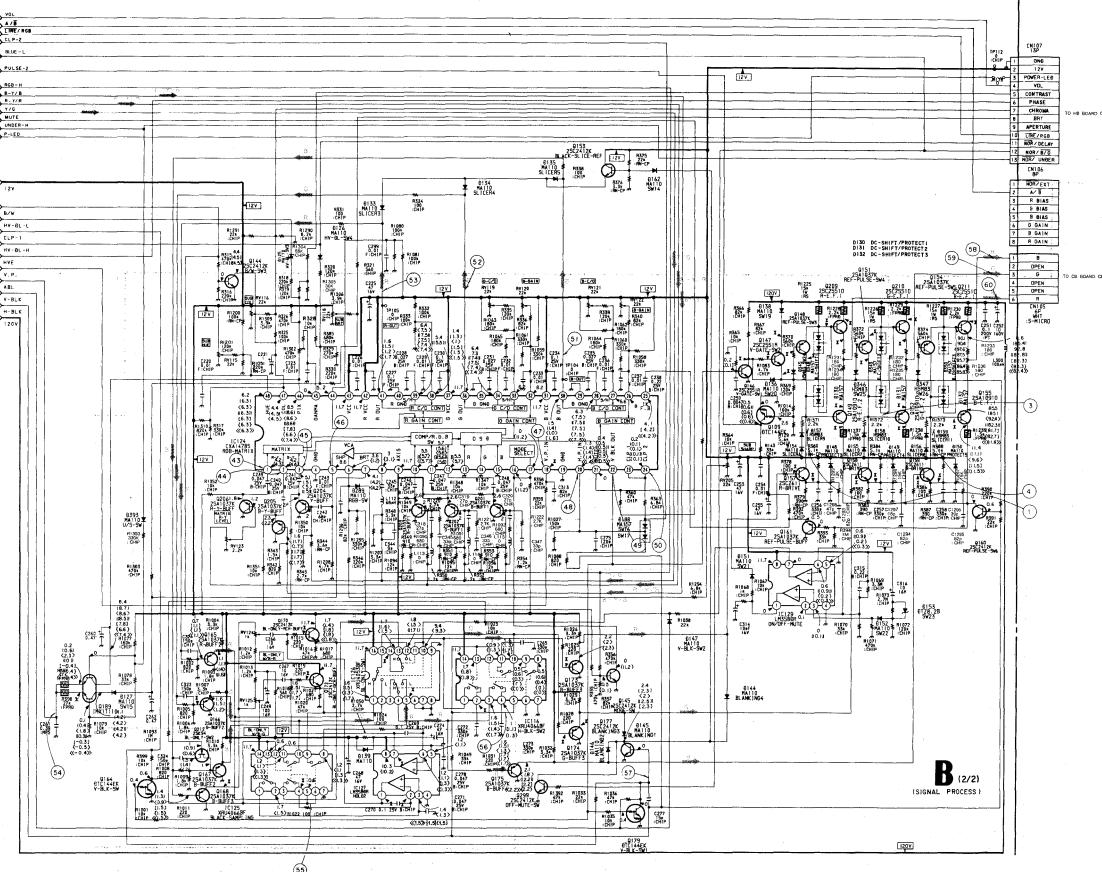
F

G

H

I

J

**B (2/2)**  
(SIGNAL PROCESS)

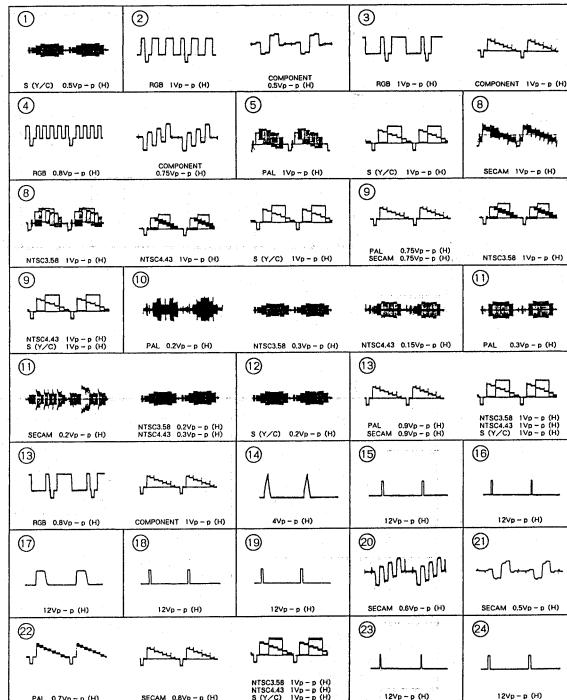
## — B Board —

X

## &lt; TRANSISTOR &gt;

	PAL	SECAM	NTSC	NTSC	S (YC)	ANALOG	COMPONENT
	3.8V	4.4V	3.8V	4.4V	8 (YC)	RGB	RGB
G113 E	0.5	0.5	0.4	0.4	0.5	0.5	0.5
B	1.0	1.0	0.9	0.9	0.9	0.9	0.9
G115 E	11.2	9.3	0.0	10.8	0.0	0.0	0.0
B	2.8	2.2	0.1	2.4	0.1	0.1	0.0
G116 E	0.0	0.0	1.7	1.7	1.7	1.7	1.7
B	0.0	0.0	1.7	1.7	1.7	1.7	1.7
G117 E	0.0	0.0	1.7	1.7	1.7	1.7	1.7
B	1.7	1.7	1.7	1.7	1.7	1.7	1.7
G118 E	0.0	0.0	1.7	1.7	1.7	1.7	1.7
B	0.0	0.0	1.7	1.7	1.7	1.7	1.7
G119 E	0.0	0.0	1.7	1.7	1.7	1.7	1.7
B	0.0	0.0	1.7	1.7	1.7	1.7	1.7
G120 E	4.3	4.3	4.4	4.4	4.5	4.4	4.4
B	3.7	3.7	3.8	3.8	3.9	3.8	3.8
G132 E	2.3	2.3	2.4	2.4	2.4	2.4	2.4
B	1.7	1.7	1.7	1.7	1.7	1.7	1.7
G140 C	116.7	114.4	110.4	112.2	113.7	114.2	114.1
E	117.2	115.8	111.8	115.0	115.5	115.8	115.4
C	128.6	123.5	120.8	123.4	123.8	124.8	124.4
B	119.8	116.5	110.5	116.4	116.2	114.2	114.2
G145 C	86.1	85.0	82.0	83.4	82.8	82.8	82.8
E	86.0	85.3	85.0	85.4	85.4	85.4	85.6
C	84.0	81.8	80.0	81.4	81.7	81.7	81.7
B	85.1	84.9	81.2	83.4	82.7	82.5	82.5
G151 E	90.7	91.4	96.0	87.0	87.0	86.5	88.4
B	89.2	89.8	86.5	88.4	85.3	84.8	84.7
G152 E	92.1	92.7	100.2	89.5	82.4	80.5	88.9
B	92.0	92.7	100.2	89.5	82.4	80.5	88.9
G153 E	10.8	10.5	9.7	10.8	10.8	10.0	11.0
B	92.5	92.9	99.8	90.1	88.7	90.4	89.2
G155 E	88.3	89.5	95.7	85.7	83.9	84.6	82.1
B	87.4	81.1	87.5	79.7	79.9	80.8	76.4
G156 E	88.0	84.8	91.2	84.4	82.7	82.5	82.1
B	87.4	81.1	87.5	79.7	79.9	80.8	76.4
G158 E	1.0	1.5	1.3	1.0	1.0	1.0	1.0
B	1.0	1.5	1.3	1.0	1.0	1.0	1.0
G159 E	1.6	1.2	1.2	1.6	1.7	1.7	1.7
B	2.2	2.1	1.5	2.1	2.2	2.2	2.2
G161 E	0.2	0.6	2.7	0.5	-0.5	-0.7	-0.6
B	0.8	0.9	0.6	1.0	1.0	1.0	1.0
G166 C	2.1	2.0	1.6	2.1	2.2	2.1	2.2
E	2.1	2.0	1.6	2.1	2.2	2.1	2.2
C	2.2	2.1	1.6	2.2	2.4	2.2	2.2
B	2.2	2.1	1.6	2.2	2.3	2.2	2.2
G172 E	1.7	1.8	1.4	1.7	1.7	1.7	1.7
B	2.1	2.0	1.8	2.1	2.2	2.2	2.2
G174 E	2.1	2.0	1.8	2.1	2.2	2.2	2.2
B	1.5	1.5	1.3	1.8	1.6	1.7	1.7
G178 B	6.2	8.3	8.2	6.3	6.1	6.2	6.2
G206 C	111.8	112.2	110.7	112.2	113.8	114.5	114.2
E	87.8	88.4	92.6	83.0	84.3	84.2	83.8
C	88.5	88.3	93.1	83.0	83.3	83.0	82.8
B	116.5	114.2	111.5	113.9	114.5	115.1	114.9
G211 C	115.9	113.8	111.7	113.3	113.8	114.5	114.3

## • B BOARD WAVEFORMS



**NOTE:** The components identified by shading and mark  $\Delta$  are critical.

Call for safety.  
Replace only with part numbers  
specified.

Les composants identifiés par une flèche et une marque **fi** sont critiqués pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifique.

卷之三

REF. NO. PART NO. DE: ---  
-----  
\*A-1135-726-A B B C  
\*\*\*\*

<FILTER>

<CAPACITO>

C101 1-124-589-11 E1EC

C103 1-126-157-11 ELEC  
C106 1-124-477-11 ELEC  
C107 1-163-031-11 CERA

卷之三

cii  
ciii  
cii2  
cii3

卷之三

C119 1-124-282-11 ELEC  
C117 1-126-154-11 ELEC

ELEC 111

C122 1-124-477-11 ELEC

ELEC

C130 1-163-031-11 CERA  
C131 1-163-031-11 CERA  
C132 1-124-589-11 ELEC

C134 1-163-275-11 CERA

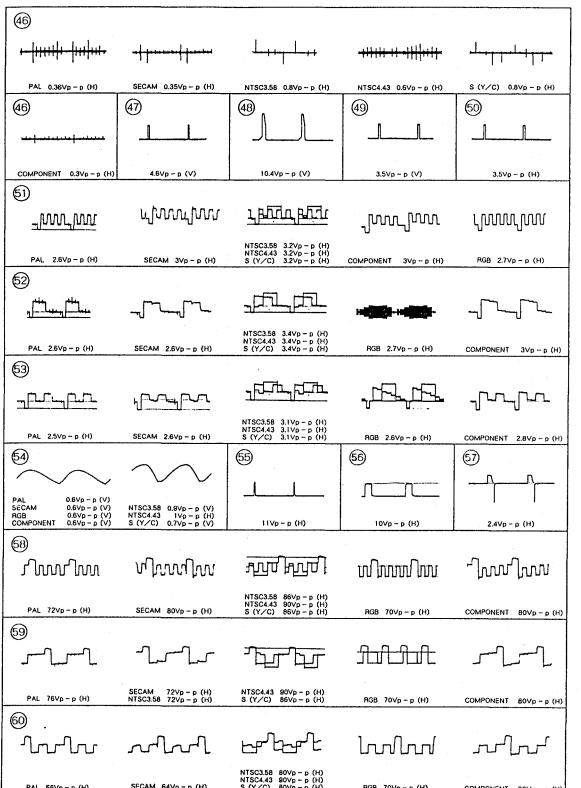
C135	1-163-113-00	CERA
C137	1-163-115-00	CERA
C138	1-124-589-11	ELEC
C139	1-163-031-1	CERA

CEBA

C145 1-163-131-00 CERA  
C146 1-126-157-11 ELEC

## SECTION 2

## ELECTRICAL PARTS LIST



## NOTE:

The components identified by shading and mark  $\Delta$  are critical for routine service. Some delay should be anticipated when ordering these items. Replace only with part number specified.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- RESISTORS
- All resistors are in ohms
- F : nonflammable

Items marked \* are not stocked since they are selected during routine service. Some delay should be anticipated when ordering these items.

When indicating parts by reference number, please include the board name.

CAPACITORS COILS

NF :  $\mu$ F, PF :  $\mu$ HF MMF : mH, UH :  $\mu$ H

- The components identified by  $\Delta$  in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
	A-1135-726-A	B BOARD, COMPLETE		C147	1-164-232-11	CERAMIC CHIP 0.01MF	10%
				C148	1-126-160-11	ELECT IMP	20%
				C149	1-163-022-00	CERAMIC CHIP 0.012MF	10%
				C150	1-124-589-11	ELECT 47MF	20%
		<FILTER>		C151	1-163-131-00	CERAMIC CHIP 390PF	5%
BPF101	1-236-363-11	FILTER, BAND PASS		C152	1-163-101-00	CERAMIC CHIP 22PF	5%
BPF102	1-236-364-11	FILTER, BAND PASS		C153	1-163-091-00	CERAMIC CHIP 22PF	5%
				C154	1-163-031-11	CERAMIC CHIP 0.01MF	5%
		<CAPACITOR>		C155	1-163-133-00	CERAMIC CHIP 470PF	5%
C101	1-124-589-11	ELECT 47MF	20%	C156	1-164-232-11	CERAMIC CHIP 0.02MF	10%
C102	1-163-031-11	CERAMIC CHIP 0.01MF	50%	C157	1-163-229-11	CERAMIC CHIP 12PF	50%
C103	1-126-157-11	ELECT 10MF	20%	C158	1-124-477-11	ELECT 47MF	20%
C106	1-124-477-11	ELECT 47MF	20%	C159	1-163-229-11	CERAMIC CHIP 12PF	5%
C107	1-163-031-11	CERAMIC CHIP 0.01MF	50%	C160	1-163-229-11	CERAMIC CHIP 12PF	5%
C108	1-124-477-11	ELECT 47MF	20%	C161	1-124-902-00	ELECT 47MF	20%
C109	1-124-477-11	ELECT 47MF	20%	C162	1-124-903-11	ELECT 1MF	20%
C110	1-124-477-11	ELECT 20MF	20%	C163	1-163-031-11	CERAMIC CHIP 0.047MF	10%
C111	1-163-031-11	CERAMIC CHIP 0.01MF	50%	C164	1-163-089-11	CERAMIC CHIP 0.047MF	20%
C112	1-163-031-11	CERAMIC CHIP 0.01MF	50%	C165	1-163-009-11	CERAMIC CHIP 0.001MF	10%
C113	1-163-031-11	CERAMIC CHIP 0.01MF	50%	C166	1-163-031-11	CERAMIC CHIP 0.01MF	50%
C114	1-124-477-11	ELECT 47MF	20%	C167	1-124-477-11	ELECT 47MF	20%
C115	1-163-031-11	CERAMIC CHIP 0.01MF	50%	C168	1-163-031-11	CERAMIC CHIP 0.01MF	50%
C116	1-124-589-11	ELECT 47MF	20%	C169	1-163-243-11	CERAMIC CHIP 47PF	5%
C117	1-126-154-11	ELECT 47MF	20%	C170	1-163-129-00	CERAMIC CHIP 330PF	5%
C118	1-126-154-11	ELECT 47MF	20%	C171	1-163-243-11	CERAMIC CHIP 47PF	5%
C119	1-163-031-11	CERAMIC CHIP 0.01MF	50%	C172	1-163-129-00	CERAMIC CHIP 330PF	5%
C200	1-124-477-11	ELECT 47MF	20%	C173	1-124-589-11	ELECT 47MF	20%
C211	1-124-477-11	ELECT 47MF	20%	C174	1-124-477-11	ELECT 47MF	20%
C212	1-124-477-11	ELECT 47MF	20%	C175	1-108-792-11	MILAR 0.001MF	5%
C213	1-163-031-11	CERAMIC CHIP 0.01MF	50%	C176	1-163-031-11	CERAMIC CHIP 0.01MF	50%
C215	1-126-154-11	ELECT 47MF	20%	C177	1-163-031-11	CERAMIC CHIP 0.01MF	50%
C216	1-163-031-11	CERAMIC CHIP 0.01MF	50%	C178	1-126-160-11	ELECT IMP	20%
C218	1-126-154-11	ELECT 47MF	20%	C179	1-163-031-11	CERAMIC CHIP 0.01MF	50%
C219	1-163-031-11	CERAMIC CHIP 0.01MF	50%	C180	1-163-031-11	CERAMIC CHIP 0.01MF	50%
C220	1-124-477-11	ELECT 47MF	20%	C181	1-126-154-11	ELECT 47MF	20%
C221	1-124-477-11	ELECT 47MF	20%	C182	1-126-163-11	ELECT 4.7MF	20%
C222	1-124-477-11	ELECT 47MF	20%	C183	1-164-232-11	CERAMIC CHIP 0.01MF	10%
C223	1-124-589-11	ELECT 47MF	20%	C184	1-163-031-11	CERAMIC CHIP 0.01MF	50%
C224	1-124-589-11	ELECT 47MF	20%	C185	1-163-031-11	CERAMIC CHIP 0.01MF	50%
C225	1-124-477-11	ELECT 47MF	20%	C186	1-163-099-00	CERAMIC CHIP 18PF	5%
C226	1-163-031-11	CERAMIC CHIP 0.01MF	50%	C187	1-163-031-11	CERAMIC CHIP 0.01MF	50%
C227	1-124-477-11	ELECT 47MF	20%	C188	1-163-031-11	CERAMIC CHIP 0.047MF	50%
C228	1-124-477-11	ELECT 47MF	20%	C189	1-163-035-00	CERAMIC CHIP 0.047MF	50%
C229	1-163-031-11	CERAMIC CHIP 0.01MF	50%	C190	1-163-121-00	CERAMIC CHIP 150PF	5%
C230	1-163-113-00	CERAMIC CHIP 68PF	5%	C191	1-163-031-11	CERAMIC CHIP 0.01MF	50%
C231	1-163-031-11	CERAMIC CHIP 0.01MF	50%	C192	1-163-031-11	CERAMIC CHIP 0.01MF	50%
C232	1-124-589-11	ELECT 47MF	20%	C193	1-124-589-11	ELECT 47MF	20%
C233	1-124-589-11	ELECT 47MF	20%	C194	1-124-589-11	ELECT 47MF	20%
C234	1-124-589-11	ELECT 47MF	20%	C195	1-124-589-11	ELECT 47MF	20%
C235	1-163-031-11	CERAMIC CHIP 0.01MF	50%	C196	1-124-589-11	ELECT 47MF	20%
C236	1-163-031-11	CERAMIC CHIP 0.01MF	50%	C197	1-124-589-11	ELECT 47MF	20%
C237	1-124-589-11	ELECT 47MF	20%				
C238	1-124-589-11	ELECT 47MF	20%				
C239	1-163-031-11	CERAMIC CHIP 0.01MF	50%				
C240	1-163-205-00	CERAMIC CHIP 0.001MF	5%				
C146	1-126-157-11	ELECT 10MF	20%				

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK				
C198	1-124-589-11	ELECT	47MF	202	16V	C266	1-126-320-11	ELECT	10MF	20X	16V	CN102	1-154-506-11	PLUG, CONNECTOR 3P		D160	8-719-104-34	DIODE MA110		J8132	1-										
C199	1-124-589-11	ELECT	47MF	202	16V	C267	1-126-320-11	ELECT	10MF	20X	16V	CN103	1-155-503-11	CONNECTOR, BOARD TO BOARD 12P		D161	8-719-104-46	DIODE MA110		JR133	1-										
C202	1-124-589-11	ELECT	47MF	202	16V	C268	1-124-589-11	ELECT	10MF	20X	16V	CN104	1-156-477-11	PIN, CONNECTOR 12P		D162	8-719-104-46	DIODE MA110		JR178	1-										
C203	1-124-589-11	ELECT	47MF	202	16V	C269	1-124-589-11	ELECT	10MF	20X	16V	CN105	1-156-509-11	PLUG, CONNECTOR 6P		D170	8-719-104-46	DIODE MA110													
C204	1-124-589-11	ELECT	47MF	202	16V	C270	1-164-004-11	ELECTRIC CHIP 0.1MF	1MF	10X	25V	CN107	1-506-478-11	PIN, CONNECTOR 13P																	
C205	1-163-101-00	CERAMIC CHIP 22PF	5%	50V	C271	1-163-809-11	CERAMIC CHIP 0.047MF	10X	25V							D185	8-719-104-34	DIODE L152836													
C206	1-163-208-11	CERAMIC CHIP 0.15MF	10X	25V	C272	1-163-129-00	CERAMIC CHIP 330PF	5%	50V							D186	8-719-400-18	DIODE MA152W													
C207	1-164-004-11	CERAMIC CHIP 0.15MF	10X	25V	C273	1-163-129-00	CERAMIC CHIP 330PF	5%	50V							D187	8-719-800-76	DIODE L15225		L101	1-										
C208	1-163-101-00	CERAMIC CHIP 22PF	5%	50V	C274	1-164-477-11	ELECT	47MF	20X	16V	CTR101	1-236-366-11	MODULE, TRAP		D188	8-719-800-76	DIODE L15225		L102	1-											
C209	1-164-004-11	CERAMIC CHIP 0.1MF	10X	25V	C275	1-163-119-00	CERAMIC CHIP 120PF	5%	50V	CTR102	1-236-365-11	MODULE, TRAP		D189	8-719-901-83	DIODE L15235		L103	1-												
C210	1-124-589-11	ELECT	47MF	202	16V	C276	1-163-097-11	CERAMIC CHIP 150PF	5%	50V					D285	8-719-404-46	DIODE MA110		L104	1-											
C211	1-124-589-11	ELECT	47MF	202	16V	C277	1-163-809-11	CERAMIC CHIP 0.047MF	10X	25V					D341	8-719-404-46	DIODE MA110		L105	1-											
C212	1-124-589-11	ELECT	47MF	202	16V	C278	1-163-809-11	CERAMIC CHIP 0.047MF	10X	25V	CV101	1-141-418-11	CAP, ADJ		D342	8-719-104-34	DIODE L152836		L106	1-											
C213	1-124-589-11	ELECT	47MF	202	16V	C279	1-126-157-11	ELECT	10MF	20X	16V	CV102	1-141-418-11	CAP, ADJ		D343	8-719-800-76	DIODE L15225		L107	1-										
C214	1-126-157-11	ELECT	10MF	20X	16V	C280	1-163-031-11	CERAMIC CHIP 0.01MF	10X	50V				D344	8-719-105-XX	DIODE R06_2W_B1		L113	1-												
C215	1-126-157-11	ELECT	10MF	20X	16V	C281	1-163-031-11	CERAMIC CHIP 0.01MF	10X	50V				D345	8-719-901-83	DIODE L15283		L114	1-												
C216	1-126-157-11	ELECT	10MF	20X	16V	C282	1-163-031-11	CERAMIC CHIP 0.01MF	10X	50V				D346	8-719-901-83	DIODE L15283		L115	1-												
C217	1-163-009-11	CERAMIC CHIP 0.15MF	10X	50V	C283	1-163-031-11	CERAMIC CHIP 0.01MF	10X	50V				D347	8-719-901-83	DIODE L15283		L116	1-													
C218	1-163-009-11	CERAMIC CHIP 0.15MF	10X	50V	C284	1-163-031-11	CERAMIC CHIP 0.01MF	10X	50V				D348	8-719-800-76	DIODE L15225		L117	1-													
C219	1-163-009-11	CERAMIC CHIP 0.001MF	102	50V	C285	1-126-157-11	ELECT	10MF	20X	16V	D349	8-719-800-76	DIODE L15225		L118	1-															
C220	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C286	1-163-031-11	CERAMIC CHIP 0.01MF	10X	50V			D350	8-719-800-76	DIODE L15225		L250	1-															
C221	1-124-903-11	ELECT	1MF	20X	50V	C287	1-163-031-11	CERAMIC CHIP 0.01MF	10X	50V				D351	8-719-800-76	DIODE L15225		L251	1-												
C222	1-163-093-11	CERAMIC CHIP 0.1MF	5%	50V	C288	1-163-031-11	CERAMIC CHIP 0.047MF	10X	25V				D352	8-719-404-46	DIODE MA110		L252	1-													
C223	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C289	1-163-031-11	CERAMIC CHIP 0.01MF	10X	50V				D353	8-719-404-46	DIODE MA110		L300	1-														
C225	1-124-477-11	ELECT	47MF	20X	16V	C290	1-124-257-11	ELECT	10MF	20X	16V																				
C226	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C291	1-163-031-11	CERAMIC CHIP 220PF	5%	50V																							
C227	1-163-038-11	CERAMIC CHIP 0.1MF	25V	C292	1-163-031-11	CERAMIC CHIP 82PF	5%	50V																							
C228	1-163-986-00	CERAMIC CHIP 0.027MF	10%	25V	C293	1-164-004-11	CERAMIC CHIP 0.1MF	10X	25V			D104	8-719-404-46	DIODE MA110		DL101	1-415-632-11	DELAY LINE, Y		Q101	8-										
C229	1-163-986-00	CERAMIC CHIP 0.027MF	10%	25V	C294	1-164-004-11	CERAMIC CHIP 0.1MF	10X	25V			D105	8-719-404-46	DIODE MA110																	
C230	1-163-986-00	CERAMIC CHIP 0.1MF	25V	C295	1-164-004-11	CERAMIC CHIP 0.1MF	10X	25V			D106	8-719-404-46	DIODE MA110																		
C231	1-163-031-11	CERAMIC CHIP 0.027MF	10%	25V	C296	1-163-157-11	ELECT	10MF	20X	16V	D107	8-719-404-46	DIODE MA110																		
C232	1-163-031-11	CERAMIC CHIP 0.027MF	10%	25V	C297	1-124-145-11	ELECT	10MF	20X	16V	D108	8-719-404-46	DIODE MA110																		
C233	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C298	1-163-103-00	CERAMIC CHIP 0.022MF	10X	25V			D109	8-719-404-46	DIODE MA110																		
C234	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C299	1-164-299-11	CERAMIC CHIP 0.022MF	10X	25V			D110	8-719-404-46	DIODE MA110																		
C235	1-163-986-00	CERAMIC CHIP 0.027MF	10%	25V	C300	1-164-299-11	CERAMIC CHIP 0.022MF	10X	25V			D111	8-719-404-46	DIODE MA110																	
C236	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C301	1-163-115-00	CERAMIC CHIP 82PF	5%	50V			D112	8-719-404-46	DIODE MA110																		
C237	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C302	1-163-157-11	ELECT	10MF	20X	16V			D113	8-719-404-46	DIODE MA110																	
C238	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C303	1-164-299-11	CERAMIC CHIP 0.022MF	10X	25V			D114	8-719-404-46	DIODE MA110																		
C239	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C304	1-163-031-11	CERAMIC CHIP 0.01MF	10X	25V			D115	8-719-404-46	DIODE MA110																		
C240	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C305	1-163-103-00	CERAMIC CHIP 27PF	5%	50V			D116	8-719-404-46	DIODE MA110																		
C241	1-163-809-11	CERAMIC CHIP 0.047MF	10%	25V	C306	1-163-103-00	CERAMIC CHIP 0.01MF	10X	25V			D117	8-719-404-46	DIODE MA110																	
C242	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C307	1-163-092-00	CERAMIC CHIP 99P	0.25PF	50V			D118	8-719-404-46	DIODE MA110																		
C243	1-163-103-00	CERAMIC CHIP 27PF	5%	50V	C308	1-163-105-00	CERAMIC CHIP 33PF	5%	50V			D119	8-719-404-46	DIODE MA110																	
C244	1-163-103-00	CERAMIC CHIP 33PF	5%	50V	C309	1-163-105-00	CERAMIC CHIP 33PF	5%	50V			D120	8-719-404-46	DIODE MA110																	
C245	1-163-105-00	CERAMIC CHIP 33PF	5%	50V	C310	1-163-105-00	CERAMIC CHIP 33PF	5%	50V			D121	8-719-404-46	DIODE MA110																	
C246	1-163-809-11	CERAMIC CHIP 0.047MF	10%	25V	C311	1-163-105-00	CERAMIC CHIP 138PF	5%	50V			D122	8-719-404-46	DIODE MA152W																	
C247	1-163-809-11	CERAMIC CHIP 0.047MF	10%	25V	C312	1-163-115-00	CERAMIC CHIP 82PF	5%	50V			D123	8-719-404-46	DIODE MA110																	
C248	1-163-809-11	CERAMIC CHIP 0.047MF	10%	25V	C313	1-163-115-00	CERAMIC CHIP 82PF	5%	50V			D124	8-719-404-46	DIODE MA110																	
C249	1-126-101-11	ELECT	10MF	20X	16V	C314	1-163-115-00	CERAMIC CHIP 138PF	5%	50V			D125	8-719-404-46	DIODE MA110																
C250	1-163-017-11	ELECTRONIC CHIP 0.0047MF	10%	25V	C315	1-163-115-00	CERAMIC CHIP 138PF	5%	50V			D126	8-719-404-46	DIODE MA110																	
C251	1-110-364-11	MLAB	0.1MF	10X	200V	C316	1-163-109-00	CERAMIC CHIP 47PF	5%	50V			D127	8-719-404-46	DIODE MA110																
C252	1-124-046-00	ELECT	10MF	20X	16V	C317	1-163-115-00	CERAMIC CHIP 138PF	5%	50V			D128	8-719-404-46	DIODE MA110																
C253	1-124-477-11	ELECT	10MF	20X	16V	C318	1-163-115-00	CERAMIC CHIP 138PF	5%	50V			D129	8-719-404-46	DIODE MA110																
C254	1-124-477-11	ELECTRONIC CHIP 0.01MF	10%	25V	C319	1-163-115-00	CERAMIC CHIP 138PF	5%	50V			D130	8-719-800-76	DIODE L15226																	
C255	1-124-477-11	ELECT	47MF	20X	16V	C320	1-163-115-00	CERAMIC CHIP 138PF	5%	50V			D131	8-719-800-76	DIODE L15226																
C256	1-163-129-00	CERAMIC CHIP 330PF	5%	50V	C321	1-163-115-00	CERAMIC CHIP 47PF	5%	50V			D132	8-719-800-76	DIODE L15226																	
C257	1-163-129-00	CERAMIC CHIP 330PF	5%	50V	C322	1-163-115-00	CERAMIC CHIP 47PF	5%	50V			D133	8-719-998-98	IC LK358D																	
C258	1-163-129-00	CERAMIC CHIP 330PF	5%	50V	C323	1-163-115-00	CERAMIC CHIP 47PF	5%	50V			D134	8																		

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MARK	REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK			
v	CN102	1-154-706-11	PLUG, CONNECTOR 3P		D160	8-719-404-46	DIODE MA110		JR132	1-216-295-00	METAL GLAZE	0 5%	1/10W	Q141	8-729-422-27	TRANSISTOR 2SD601A-Q			
v	CN103	1-565-503-11	CONNECTOR, BOARD TO BOARD 12P		D161	8-719-404-46	DIODE MA110		JR133	1-216-295-00	METAL GLAZE	0 5%	1/10W	Q142	8-729-422-27	TRANSISTOR 2SD601A-Q			
v	CN104	1-506-477-11	PIN, CONNECTOR 12P		D162	8-719-404-46	DIODE MA110		JR178	1-216-295-00	METAL GLAZE	0 5%	1/10W	Q143	8-729-422-27	TRANSISTOR 2SD601A-Q			
v	CN105	1-154-509-11	PLUG, CONNECTOR 6P		D170	8-719-404-46	DIODE MA110				<COIL>			Q144	8-729-422-27	TRANSISTOR 2SD601A-Q			
v	CN107	1-506-478-11	PIN, CONNECTOR 13P		D185	8-719-104-34	DIODE 1S2836						Q145	8-729-422-27	TRANSISTOR 2SD601A-Q				
		<TRAP MODULE>		D186	8-719-401-18	DIODE MA152W		D187	8-719-800-76	DIODE 1S5226	L101	1-410-470-11	INDUCTOR	10UH	Q146	8-729-255-12	TRANSISTOR 2SC2551-O		
	CTR101	1-235-366-11	MODULE, TRAP	D188	8-719-800-76	DIODE 1S5226		D189	8-719-104-34	DIODE 1S2836	L102	1-410-090-41	INDUCTOR	18MMH	Q147	8-729-255-12	TRANSISTOR 2SC2551-O		
	CTR102	1-230-365-11	MODULE, TRAP	D191	8-719-104-34	DIODE 1S2836		D192	8-719-800-76	DIODE 1S5226	L103	1-410-002-31	INDUCTOR CHIP	4.7UH	Q148	8-729-216-22	TRANSISTOR 2SA1162-G		
		<TRIMMER>		D285	8-719-404-46	DIODE MA110		D289	8-719-404-46	DIODE MA110	L104	1-410-002-31	INDUCTOR CHIP	4.7UH	Q149	8-729-200-17	TRANSISTOR 2SA1091-O		
	CV101	1-141-418-11	CAP, ADJ	D291	8-719-404-46	DIODE MA110		D342	8-719-104-34	DIODE 1S2836	L105	1-410-002-31	INDUCTOR CHIP	4.7UH	Q150	8-729-422-27	TRANSISTOR 2SD601A-Q		
	CV102	1-141-418-11	CAP, ADJ	D343	8-719-800-76	DIODE 1S5226		D344	8-719-105-XV	DIODE R06_2B-B1	L106	1-410-470-11	INDUCTOR	10UH	Q151	8-729-216-22	TRANSISTOR 2SA1162-G		
		<Diode>		D345	8-719-901-83	DIODE 1S583		D346	8-719-901-83	DIODE 1S583	L113	1-216-296-00	METAL GLAZE	0 5%	1/8W	Q152	8-729-200-17	TRANSISTOR 2SA1091-O	
	D104	8-719-404-46	DIODE MA110	D348	8-719-800-76	DIODE 1S5226		D349	8-719-800-76	DIODE 1S5226	L114	1-216-296-00	METAL GLAZE	0 5%	1/8W	Q153	8-729-326-11	TRANSISTOR 2SC2611	
	D105	8-719-404-46	DIODE MA110	D350	8-719-800-76	DIODE 1S5226		D351	8-719-800-76	DIODE 1S5226	L115	1-216-296-00	METAL GLAZE	0 5%	1/8W	Q154	8-729-216-22	TRANSISTOR 2SA1162-G	
	D106	8-719-404-46	DIODE MA110	D352	8-719-800-76	DIODE 1S5226		D353	8-719-404-46	DIODE MA110	L116	1-412-011-31	INDUCTOR CHIP	2.7UH	Q155	8-729-216-22	TRANSISTOR 2SA1162-G		
	D107	8-719-404-46	DIODE MA110	D354	8-719-404-46	DIODE MA110		D355	8-719-404-46	DIODE MA110	L117	1-412-011-31	INDUCTOR CHIP	2.7UH	Q156	8-729-326-11	TRANSISTOR 2SC2611		
	D108	8-719-404-46	DIODE MA110	D356	8-719-404-46	DIODE MA110		D357	8-719-404-46	DIODE MA110	L118	1-412-011-31	INDUCTOR CHIP	2.7UH	Q157	8-729-216-22	TRANSISTOR 2SA1162-G		
	D109	8-719-404-46	DIODE MA110	D358	8-719-404-46	DIODE MA110		D359	8-719-404-46	DIODE MA110	L119	1-410-999-11	INDUCTOR CHIP	3.3UH	Q158	8-729-326-11	TRANSISTOR 2SC2611		
	D110	8-719-404-46	DIODE MA110	D360	8-719-404-46	DIODE MA110		D361	8-719-404-46	DIODE MA110	L251	1-410-478-11	INDUCTOR	47UH	Q159	8-729-326-11	TRANSISTOR 2SC2611		
	D111	8-719-404-46	DIODE MA110	D362	8-719-404-46	DIODE MA110		D363	8-719-404-46	DIODE MA110	L300	1-410-482-31	INDUCTOR	100UH					
	D112	8-719-404-46	DIODE MA110	D364	8-719-404-46	DIODE MA110		D365	8-719-404-46	DIODE MA110					Q160	8-729-422-27	TRANSISTOR 2SD601A-Q		
	D113	8-719-404-46	DIODE MA110	D366	8-719-404-46	DIODE MA110		D367	8-719-404-46	DIODE MA110					Q161	8-729-216-22	TRANSISTOR 2SA1162-G		
	D114	8-719-404-46	DIODE MA110	D368	8-719-404-46	DIODE MA110		D369	8-719-404-46	DIODE MA110					Q162	8-729-901-01	TRANSISTOR DTC144EK		
	D115	8-719-404-46	DIODE MA110	D370	8-719-404-46	DIODE MA110		D371	8-719-404-46	DIODE MA110					Q163	8-729-907-26	TRANSISTOR IMX		
	D116	8-719-404-46	DIODE MA110	D372	8-719-404-46	DIODE MA110		D373	8-719-404-46	DIODE MA110					Q164	8-729-216-22	TRANSISTOR 2SD601A-Q		
	D117	8-719-404-46	DIODE MA110	D374	8-719-404-46	DIODE MA110		D375	8-719-404-46	DIODE MA110					Q165	8-729-216-22	TRANSISTOR 2SA1162-G		
	D118	8-719-404-46	DIODE MA110	D376	8-719-404-46	DIODE MA110		D377	8-719-404-46	DIODE MA110					Q166	8-729-216-22	TRANSISTOR 2SA1162-G		
	D119	8-719-404-46	DIODE MA110	D378	8-719-404-46	DIODE MA110		D379	8-719-404-46	DIODE MA110					Q167	8-729-422-27	TRANSISTOR 2SD601A-Q		
	D120	8-719-404-46	DIODE MA110	D380	8-719-404-46	DIODE MA110		D381	8-719-404-46	DIODE MA110					Q168	8-729-422-27	TRANSISTOR 2SD601A-Q		
	D121	8-719-404-46	DIODE MA110	D382	8-719-404-46	DIODE MA110		D383	8-719-404-46	DIODE MA110					Q169	8-729-422-27	TRANSISTOR 2SD601A-Q		
	D122	8-719-404-46	DIODE MA110	D384	8-719-404-46	DIODE MA110		D385	8-719-404-46	DIODE MA110					Q170	8-729-422-27	TRANSISTOR 2SD601A-Q		
	D123	8-719-404-46	DIODE MA110	D386	8-719-404-46	DIODE MA110		D387	8-719-404-46	DIODE MA110					Q171	8-729-422-27	TRANSISTOR 2SD601A-Q		
	D124	8-719-404-46	DIODE MA110	D388	8-719-404-46	DIODE MA110		D389	8-719-404-46	DIODE MA110					Q172	8-729-422-27	TRANSISTOR 2SD601A-Q		
	D125	8-719-404-46	DIODE MA110	D390	8-719-404-46	DIODE MA110		D391	8-719-404-46	DIODE MA110					Q173	8-729-216-22	TRANSISTOR 2SA1162-G		
	D126	8-719-404-46	DIODE MA110	D392	8-719-404-46	DIODE MA110		D393	8-719-404-46	DIODE MA110					Q174	8-729-216-22	TRANSISTOR 2SD601A-Q		
	D127	8-719-404-46	DIODE MA110	D394	8-719-404-46	DIODE MA110		D395	8-719-404-46	DIODE MA110					Q175	8-729-216-22	TRANSISTOR 2SA1162-G		
	D128	8-719-404-46	DIODE MA110	D396	8-719-404-46	DIODE MA110		D397	8-719-404-46	DIODE MA110					Q176	8-729-216-22	TRANSISTOR 2SD601A-Q		
	D129	8-719-404-46	DIODE MA110	D398	8-719-404-46	DIODE MA110		D399	8-719-404-46	DIODE MA110					Q177	8-729-422-27	TRANSISTOR 2SD601A-Q		
	D130	8-719-800-76	DIODE ISS526	D400	8-719-800-76	DIODE ISS526		D401	8-719-509-57	IC NMV1191E	L01	8-729-422-27	TRANSISTOR 2SD601A-Q						
	D131	8-719-800-76	DIODE ISS526	D402	8-719-509-57	IC NMV1192E		D403	8-719-509-08	IC NMV1183F	L02	8-729-422-27	TRANSISTOR 2SD601A-Q						
	D132	8-719-800-76	DIODE ISS526	D404	8-719-509-08	IC NMV1184F		D405	8-719-509-08	IC NMV1185F	L03	8-729-422-27	TRANSISTOR 2SD601A-Q						
	D133	8-719-404-46	DIODE MA110	D406	8-719-404-46	DIODE MA110		D407	8-719-509-08	IC NMV1186F	L04	8-729-422-27	TRANSISTOR 2SD601A-Q						
	D134	8-719-404-46	DIODE MA110	D408	8-719-509-57	IC NMV1193F		D409	8-719-509-57	IC NMV1194F	L05	8-729-422-27	TRANSISTOR 2SD601A-Q						
	D135	8-719-404-46	DIODE MA110	D410	8-719-509-57	IC NMV1195F		D411	8-719-509-13	IC NMV1196F	L06	8-729-422-27	TRANSISTOR 2SD601A-Q						
	D136	8-719-404-46	DIODE MA110	D412	8-719-509-57	IC NMV1197F		D413	8-719-509-13	IC NMV1198F	L07	8-729-422-27	TRANSISTOR 2SD601A-Q						
	D137	8-719-404-46	DIODE MA110	D414	8-719-509-57	IC NMV1199F		D415	8-719-509-13	IC NMV1200F	L08	8-729-422-27	TRANSISTOR 2SD601A-Q						
	D138	8-719-404-46	DIODE MA110	D416	8-719-509-57	IC NMV1201F		D417	8-719-509-13	IC NMV1202F	L09	8-729-422-27	TRANSISTOR 2SD601A-Q						
	D139	8-719-404-46	DIODE MA110	D418	8-719-509-57	IC NMV1203F		D419	8-719-509-13	IC NMV1204F	L10	8-729-422-27	TRANSISTOR 2SD601A-Q						
	D140	8-719-404-46	DIODE MA110	D420	8-719-509-57	IC NMV1205F		D421	8-719-509-13	IC NMV1206F	L11	8-729-422-27	TRANSISTOR 2SD601A-Q						
	D141	8-719-404-46	DIODE MA110	D422	8-719-509-57	IC NMV1207F		D423	8-719-509-13	IC NMV1208F	L12	8-729-422-27	TRANSISTOR 2SD601A-Q						
	D142	8-719-404-46	DIODE MA110	D424	8-719-509-57	IC NMV1209F		D425	8-719-509-13	IC NMV1210F	L13	8-729-422-27	TRANSISTOR 2SD601A-Q						
	D143	8-719-404-46	DIODE MA110	D426	8-719-509-57	IC NMV1211F		D427	8-719-509-13	IC NMV1212F	L14	8-729-422-27	TRANSISTOR 2SD601A-Q						
	D144	8-719-404-46	DIODE MA110	D428	8-719-509-57	IC NMV1213F		D429	8-719-509-13	IC NMV1214F	L15	8-729-422-27	TRANSISTOR 2SD601A-Q						
	D145	8-719-404-46	DIODE MA110	D430	8-719-509-57	IC NMV1215F		D431	8-719-509-13	IC NMV1216F	L16	8-729-422-27	TRANSISTOR 2SD601A-Q						
	D146	8-719-404-46	DIODE MA110	D432	8-719-509-57	IC NMV1217F		D433	8-719-509-13	IC NMV1218F	L17	8-729-422-27	TRANSISTOR 2SD601A-Q						
	D147	8-719-404-46	DIODE MA110	D434	8-719-509-57	IC NMV1219F		D435	8-719-509-13	IC NMV1220F	L18	8-729-422-27	TRANSISTOR 2SD601A-Q						
	D148	8-719-404-46	DIODE MA110	D436	8-719-509-57	IC NMV1221F		D437	8-719-509-13	IC NMV1222F	L19	8-729-422-27	TRANSISTOR 2SD601A-Q						
	D149	8-719-404-46	DIODE MA110	D438	8-719-509-57	IC NMV1223F		D439	8-719-509-13	IC NMV1224F	L20	8-729-422-27	TRANSISTOR 2SD601A-Q						
	D150	8-719-404-46	DIODE MA110	D440	8-719-509-57	IC NMV1225F		D441	8-719-509-13	IC NMV1226F	L21	8-729-422-27	TRANSISTOR 2SD601A-Q						
	D151	8-719-404-46	DIODE MA110	D442	8-719-509-57	IC NMV1227F		D443	8-719-509-13	IC NMV1228F	L22	8-729-422-27	TRANSISTOR 2SD601A-Q						
	D152	8-719-404-46	DIODE MA110	D444	8-719-509-57	IC NMV1229F		D445	8-719-509-13	IC NMV1230F	L23	8-729-422-27	TRANSISTOR 2SD601A-Q						
	D153	8-719-404-46	DIODE MA110	D446	8-719-509-57	IC NMV1231F		D447	8-719-509-13	IC NMV1232F	L24	8-729-422-27	TRANSISTOR 2SD601A-Q						
	D154	8-																	

B

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R104	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R185	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R105	1-216-025-00	METAL GLAZE	100 5% 1/10W	R186	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R106	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R187	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R107	1-216-025-20	METAL GLAZE	100 5% 1/10W	R188	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R108	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R189	1-216-103-00	METAL GLAZE	180K 5% 1/10W
R109	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R190	1-216-107-00	METAL GLAZE	270K 5% 1/10W
R110	1-216-049-00	METAL GLAZE	10K 5% 1/10W	R191	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R111	1-216-065-00	METAL GLAZE	3.9K 5% 1/10W	R192	1-216-103-00	METAL GLAZE	180K 5% 1/10W
R112	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R193	1-216-105-00	METAL GLAZE	230K 5% 1/10W
R113	1-249-401-11	CARBON	47 5% 1/4W	R194	1-216-089-00	METAL GLAZE	4.7K 5% 1/10W
R114	1-216-045-00	METAL GLAZE	680 5% 1/10W	R195	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R115	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R196	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R117	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R197	1-216-671-11	METAL CHIP	6.8K 0.50% 1/10W
R118	1-216-025-00	METAL GLAZE	100 5% 1/10W	R198	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R119	1-216-647-11	METAL CHIP	680 0.50% 1/10W	R199	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R220	1-216-647-11	METAL CHIP	680 0.50% 1/10W	R200	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R221	1-216-025-00	METAL GLAZE	100 5% 1/10W	R201	1-216-043-00	METAL GLAZE	560 5% 1/10W
R223	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R202	1-216-033-00	METAL GLAZE	220 5% 1/10W
R224	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R203	1-216-045-00	METAL GLAZE	680 5% 1/10W
R225	1-216-083-00	METAL GLAZE	27K 5% 1/10W	R204	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R226	1-216-093-00	METAL GLAZE	68K 5% 1/10W	R205	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R227	1-216-037-00	METAL GLAZE	330 5% 1/10W	R206	1-216-043-00	METAL GLAZE	560 5% 1/10W
R228	1-216-083-00	METAL GLAZE	27K 5% 1/10W	R207	1-216-045-00	METAL GLAZE	680 5% 1/10W
R229	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R208	1-216-671-11	METAL CHIP	6.8K 0.50% 1/10W
R230	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R209	1-216-043-00	METAL GLAZE	560 5% 1/10W
R231	1-216-091-00	METAL GLAZE	68K 5% 1/10W	R210	1-216-033-00	METAL GLAZE	220 5% 1/10W
R232	1-216-045-00	METAL GLAZE	56K 5% 1/10W	R211	1-216-099-00	METAL GLAZE	120K 5% 1/10W
R233	1-216-057-11	METAL CHIP	1.8K 0.50% 1/10W	R212	1-216-055-00	METAL GLAZE	4.7K 5% 1/10W
R234	1-216-079-11	METAL CHIP	18K 5% 1/10W	R213	1-216-043-00	METAL GLAZE	560 5% 1/10W
R235	1-216-653-11	METAL CHIP	1.2K 0.50% 1/10W	R214	1-216-043-00	METAL GLAZE	560 5% 1/10W
R236	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	R215	1-216-127-11	METAL GLAZE	1.8K 5% 1/10W
R237	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R216	1-216-043-00	METAL GLAZE	560 5% 1/10W
R238	1-216-085-00	METAL GLAZE	33K 2% 1/10W	R217	1-216-033-00	METAL GLAZE	220 5% 1/10W
R239	1-216-089-00	METAL GLAZE	47K 2% 1/10W	R218	1-216-295-00	METAL GLAZE	0 5% 1/10W
R240	1-216-063-00	METAL GLAZE	4.7K 5% 1/10W	R219	1-216-043-00	METAL GLAZE	560 5% 1/10W
R241	1-216-037-00	METAL GLAZE	330 5% 1/10W	R220	1-216-043-00	METAL GLAZE	560 5% 1/10W
R242	1-216-671-11	METAL CHIP	6.8K 0.50% 1/10W	R221	1-216-035-00	METAL GLAZE	270 5% 1/10W
R243	1-216-655-11	METAL CHIP	1.5K 0.50% 1/10W	R222	1-216-033-00	METAL GLAZE	220 5% 1/10W
R244	1-216-679-11	METAL CHIP	15K 0.50% 1/10W	R223	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R245	1-216-677-11	METAL CHIP	12K 0.50% 1/10W	R224	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R246	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R225	1-216-095-00	METAL GLAZE	82K 5% 1/10W
R247	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R226	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R248	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R227	1-216-035-00	METAL GLAZE	270 5% 1/10W
R249	1-216-089-00	METAL GLAZE	10K 5% 1/10W	R228	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R250	1-216-063-00	METAL GLAZE	4.7K 5% 1/10W	R229	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R251	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R230	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R252	1-216-635-11	METAL CHIP	220 0.50% 1/10W	R231	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R253	1-216-103-00	METAL GLAZE	180K 5% 1/10W	R232	1-216-105-00	METAL GLAZE	220K 5% 1/10W
R254	1-216-033-00	METAL GLAZE	220 5% 1/10W	R233	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R255	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R234	1-216-041-00	METAL GLAZE	470 5% 1/10W
R256	1-216-057-00	METAL GLAZE	4.7K 5% 1/10W	R235	1-216-041-00	METAL GLAZE	470 5% 1/10W
R257	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R236	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R258	1-216-043-00	METAL GLAZE	560 5% 1/10W	R237	1-216-025-00	METAL GLAZE	100 5% 1/10W
R259	1-216-093-00	METAL GLAZE	68K 5% 1/10W	R238	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R260	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	R239	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R261	1-216-059-00	METAL GLAZE	2.2K 5% 1/10W	R240	1-216-033-00	METAL GLAZE	220 5% 1/10W
R262	1-216-057-00	METAL GLAZE	4.7K 5% 1/10W	R241	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R263	1-216-053-00	METAL GLAZE	560 5% 1/10W	R242	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W
R264	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R243	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R265	1-216-055-00	METAL GLAZE	47K 5% 1/10W	R244	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R266	1-216-055-00	METAL GLAZE	4.7K 5% 1/10W	R245	1-216-679-11	METAL CHIP	15K 0.50% 1/10W
R267	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R246	1-216-103-00	METAL GLAZE	180K 5% 1/10W
R268	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R247	1-216-093-00	METAL GLAZE	68K 5% 1/10W
R269	1-216-281-00	METAL GLAZE	22K 5% 1/10W				
R270	1-216-679-11	METAL CHIP	15K 0.50% 1/10W				

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK		
R248	1-216-095-00	METAL GLAZE	82K 5%	/10W	R319	1-216-099-00	METAL GLAZE	120K 5%	/10W
R249	1-216-109-00	METAL GLAZE	330K 5%	/10W	R320	1-216-099-00	METAL GLAZE	120K 5%	/10W
R250	1-216-101-00	METAL GLAZE	150K 5%	/10W	R321	1-216-043-00	METAL GLAZE	560 5%	/10W
R251	1-216-105-00	METAL GLAZE	220K 5%	/10W	R325	1-216-097-00	METAL GLAZE	103K 5%	/10W
R252	1-216-101-00	METAL GLAZE	150K 5%	/10W	R326	1-216-113-00	METAL GLAZE	470K 5%	/10W
R253	1-216-101-00	METAL GLAZE	150K 5%	/10W	R328	1-216-073-00	METAL GLAZE	10K 5%	/10W
R254	1-216-033-00	METAL GLAZE	220 5%	/10W	R329	1-216-107-00	METAL GLAZE	270K 5%	/10W
R255	1-216-061-00	METAL GLAZE	3.3K 5%	/10W	R330	1-216-105-00	METAL GLAZE	220K 5%	/10W
R256	1-216-107-00	METAL GLAZE	270K 5%	/10W	R331	1-216-025-00	METAL GLAZE	100 5%	/10W
R258	1-216-041-00	METAL GLAZE	470 5%	/10W	R332	1-216-097-00	METAL GLAZE	100K 5%	/10W
R259	1-216-073-00	METAL GLAZE	10K 5%	/10W	R333	1-216-097-00	METAL GLAZE	100K 5%	/10W
R260	1-216-025-00	METAL GLAZE	100 5%	/10W	R334	1-216-025-00	METAL GLAZE	100 5%	/10W
R261	1-216-035-00	METAL GLAZE	270 5%	/10W	R335	1-216-099-00	METAL GLAZE	120K 5%	/10W
R262	1-216-097-00	METAL GLAZE	100K 5%	/10W	R336	1-216-095-00	METAL GLAZE	82K 5%	/10W
R263	1-216-029-00	METAL GLAZE	150 5%	/10W	R338	1-216-025-00	METAL GLAZE	100 5%	/10W
R264	1-216-065-00	METAL GLAZE	4.7K 5%	/10W	R339	1-216-099-00	METAL GLAZE	120K 5%	/10W
R265	1-216-067-00	METAL GLAZE	5.6K 5%	/10W	R340	1-216-095-00	METAL GLAZE	82K 5%	/10W
R266	1-216-073-00	METAL GLAZE	10X 5%	/10W	R342	1-216-047-00	METAL GLAZE	820 5%	/10W
R267	1-216-073-00	METAL GLAZE	10K 5%	/10W	R343	1-216-053-00	METAL GLAZE	1.5K 5%	/10W
R268	1-216-081-00	METAL GLAZE	22X 5%	/10W	R344	1-216-664-11	METAL CHIP	3.6K 0.50%	/10W
R269	1-216-103-00	METAL GLAZE	180K 5%	/10W	R345	1-216-661-11	METAL CHIP	2.7K 0.50%	/10W
R270	1-216-081-00	METAL GLAZE	22X 5%	/10W	R346	1-216-105-00	METAL GLAZE	220K 5%	/10W
R271	1-216-025-00	METAL GLAZE	100 5%	/10W	R348	1-216-061-00	METAL GLAZE	3.3K 5%	/10W
R272	1-216-103-00	METAL GLAZE	180K 5%	/10W	R349	1-216-650-11	METAL CHIP	910 0.50%	/10W
R273	1-216-113-00	METAL GLAZE	470K 5%	/10W	R350	1-216-653-11	METAL CHIP	1.2K 0.50%	/10W
R275	1-216-081-00	METAL GLAZE	22K 5%	/10W	R351	1-216-650-11	METAL CHIP	910 0.50%	/10W
R276	1-216-037-00	METAL GLAZE	330 5%	/10W	R352	1-216-653-11	METAL CHIP	1.2K 0.50%	/10W
R277	1-216-049-00	METAL GLAZE	1K 5%	/10W	R353	1-216-650-11	METAL CHIP	910 0.50%	/10W
R278	1-216-059-00	METAL GLAZE	2.7K 5%	/10W	R354	1-216-653-11	METAL CHIP	1.2K 0.50%	/10W
R280	1-216-061-00	METAL GLAZE	3.3K 5%	/10W	R355	1-216-113-00	METAL GLAZE	470K 5%	/10W
R281	1-216-061-00	METAL GLAZE	3.3K 5%	/10W	R356	1-216-113-00	METAL GLAZE	470K 5%	/10W
R282	1-216-037-00	METAL GLAZE	330 5%	/10W	R357	1-216-095-00	METAL GLAZE	82K 5%	/10W
R283	1-216-049-00	METAL GLAZE	1K 5%	/10W	R358	1-216-113-00	METAL GLAZE	470K 5%	/10W
R284	1-216-059-00	METAL GLAZE	2.7K 5%	/10W	R359	1-216-081-00	METAL GLAZE	22K 5%	/10W
R286	1-216-061-00	METAL GLAZE	3.3K 5%	/10W	R360	1-216-089-00	METAL GLAZE	47K 5%	/10W
R287	1-216-061-00	METAL GLAZE	3.3K 5%	/10W	R363	1-216-059-00	METAL GLAZE	6.8K 5%	/10W
R288	1-216-037-00	METAL GLAZE	330 5%	/10W	R364	1-216-073-00	METAL GLAZE	10K 5%	/10W
R289	1-216-049-00	METAL GLAZE	1K 5%	/10W	R365	1-216-073-00	METAL GLAZE	10K 5%	/10W
R290	1-216-059-00	METAL GLAZE	2.7K 5%	/10W	R366	1-216-244-00	METAL GLAZE	82K 5%	/8W
R292	1-216-061-00	METAL GLAZE	3.3K 5%	/10W	R367	1-216-244-00	METAL GLAZE	82K 5%	/8W
R293	1-216-061-00	METAL GLAZE	3.3K 5%	/10W	R368	1-216-055-00	METAL GLAZE	1.8K 5%	/10W
R295	1-216-057-00	METAL GLAZE	2.2K 5%	/10W	R369	1-216-248-00	METAL GLAZE	120K 5%	/8W
R296	1-216-659-11	METAL CHIP	2.2K 0.50%	/10W	R370	1-216-115-00	METAL GLAZE	560K 5%	/10W
R297	1-216-659-11	METAL CHIP	2.2K 0.50%	/10W	R371	1-216-067-00	METAL GLAZE	5.6K 5%	/10W
R298	1-216-065-00	METAL GLAZE	4.7K 5%	/10W	R372	1-216-115-00	METAL GLAZE	560K 5%	/10W
R300	1-216-065-00	METAL GLAZE	4.7K 5%	/10W	R374	1-216-115-00	METAL GLAZE	560K 5%	/10W
R301	1-216-065-00	METAL GLAZE	4.7K 5%	/10W	R375	1-216-683-11	METAL CHIP	22K 0.50%	/10W
R302	1-216-113-00	METAL GLAZE	470K 5%	/10W	R376	1-216-663-11	METAL CHIP	3.3K 0.50%	/10W
R303	1-216-065-00	METAL GLAZE	4.7K 5%	/10W	R378	1-216-025-00	METAL GLAZE	100 5%	/10W
R304	1-216-049-00	METAL GLAZE	1K 5%	/10W	R379	1-216-641-11	METAL CHIP	390 0.50%	/10W
R305	1-216-049-00	METAL GLAZE	1K 5%	/10W	R380	1-216-668-11	METAL CHIP	5.1K 0.50%	/10W
R306	1-216-089-00	METAL GLAZE	47K 5%	/10W	R381	1-216-089-00	METAL GLAZE	47K 5%	/10W
R307	1-216-033-00	METAL GLAZE	230 5%	/10W	R382	1-216-025-00	METAL GLAZE	100 5%	/10W
R308	1-216-089-00	METAL GLAZE	47K 5%	/10W	R383	1-216-641-11	METAL CHIP	390 0.50%	/10W
R309	1-216-089-00	METAL GLAZE	47K 5%	/10W	R384	1-216-658-11	METAL CHIP	5.1K 0.50%	/10W
R310	1-216-033-00	METAL GLAZE	220 5%	/10W	R385	1-216-117-00	METAL GLAZE	680K 5%	/10W
R311	1-216-089-00	METAL GLAZE	47K 5%	/10W	R386	1-216-025-00	METAL GLAZE	100 5%	/10W
R312	1-216-089-00	METAL GLAZE	47K 5%	/10W	R387	1-216-641-11	METAL CHIP	390 0.50%	/10W
R313	1-216-033-00	METAL GLAZE	220 5%	/10W	R388	1-216-668-11	METAL CHIP	5.1K 0.50%	/10W
R314	1-216-089-00	METAL GLAZE	47K 5%	/10W	R389	1-216-089-00	METAL GLAZE	47K 5%	/10W
R315	1-216-113-00	METAL GLAZE	470K 5%	/10W	R390	1-216-105-00	METAL GLAZE	220K 5%	/10W
R316	1-216-105-00	METAL GLAZE	220K 5%	/10W	R391	1-216-081-00	METAL GLAZE	22K 5%	/10W
R317	1-216-109-00	METAL GLAZE	330K 5%	/10W	R392	1-216-113-00	METAL GLAZE	470K 5%	/10W
R318	1-216-105-00	METAL GLAZE	220K 5%	/10W					

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK	
R1003	I-216-085-00	METAL GLAZE	33K 5%	1/10W	R1070	I-216-085-00	METAL GLAZE	33K 5% 1/10W
R1004	I-216-121-00	METAL GLAZE	1M 5%	1/10W	R1071	I-216-113-00	METAL GLAZE	470K 5% 1/10W
R1007	I-249-437-11	CARBON	47K 5% F		R1072	I-216-099-00	METAL GLAZE	120K 5% 1/10W
R1008	I-249-434-11	CARBON	27K 5% F		R1073	I-216-131-11	METAL GLAZE	2.7M 5% 1/10W
R1009	I-216-073-00	METAL GLAZE	10K 5% F	1/10W	R1075	I-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1001	I-216-073-00	METAL GLAZE	10K 5% F	1/10W	R1076	I-216-101-00	METAL GLAZE	150K 5% 1/10W
R1002	I-216-047-00	METAL GLAZE	820 5% F	1/10W	R1077	I-216-103-00	METAL GLAZE	180K 5% 1/10W
R1003	I-216-055-00	METAL GLAZE	1.8K 5% F	1/10W	R1078	I-216-085-00	METAL GLAZE	33K 5% 1/10W
R1004	I-216-061-00	METAL GLAZE	3.3K 5% F	1/10W	R1079	I-216-073-00	METAL GLAZE	10K 5% 1/10W
R1005	I-216-047-00	METAL GLAZE	820 5% F	1/10W	R1080	I-216-097-00	METAL GLAZE	100K 5% 1/10W
R1006	I-216-055-00	METAL GLAZE	1.8K 5% F	1/10W	R1081	I-216-097-00	METAL GLAZE	100K 5% 1/10W
R1007	I-216-061-00	METAL GLAZE	3.3K 5% F	1/10W	R1083	I-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1008	I-216-047-00	METAL GLAZE	820 5% F	1/10W	R1084	I-216-063-00	METAL GLAZE	3.9K 5% 1/10W
R1009	I-216-055-00	METAL GLAZE	1.8K 5% F	1/10W	R1088	I-216-047-00	METAL GLAZE	820 5% 1/10W
R1010	I-216-061-00	METAL GLAZE	3.3K 5% F	1/10W	R1090	I-216-045-00	METAL GLAZE	680 5% 1/10W
R1011	I-216-033-00	METAL GLAZE	220 5% F	1/10W	R1091	I-216-045-00	METAL GLAZE	680 5% 1/10W
R1012	I-216-051-00	METAL GLAZE	1.2K 5% F	1/10W	R1092	I-216-045-00	METAL GLAZE	680 5% 1/10W
R1013	I-216-051-00	METAL GLAZE	1.2K 5% F	1/10W	R1093	I-216-121-00	METAL GLAZE	1M 5% 1/10W
R1014	I-216-246-00	METAL GLAZE	100K 5% F	1/8W	R1094	I-216-075-00	METAL GLAZE	12K 5% 1/10W
R1015	I-216-033-00	METAL GLAZE	220 5% F	1/10W	R1095	I-216-075-00	METAL GLAZE	12K 5% 1/10W
R1016	I-216-089-00	METAL GLAZE	47K 5% F	1/10W	R1096	I-216-075-00	METAL GLAZE	12K 5% 1/10W
R1017	I-216-045-00	METAL GLAZE	680 5% F	1/10W	R1200	I-216-695-11	METAL CHIP	100K 0.50% 1/10W
R1018	I-216-043-00	METAL GLAZE	560 5% F	1/10W	R1201	I-218-754-11	METAL CHIP	120K 0.50% 1/10W
R1019	I-216-033-00	METAL GLAZE	220 5% F	1/10W	R1207	I-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R1020	I-216-038-00	METAL GLAZE	47K 5% F	1/10W	R1208	I-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1021	I-216-045-00	METAL GLAZE	680 5% F	1/10W	R1220	I-216-039-00	METAL GLAZE	2.7K 5% 1/10W
R1022	I-216-025-00	METAL GLAZE	100 5% F	1/10W	R1221	I-216-059-00	METAL GLAZE	2.7K 5% 1/10W
R1023	I-216-073-00	METAL GLAZE	10K 5% F	1/10W	R1222	I-216-059-00	METAL GLAZE	2.7K 5% 1/10W
R1024	I-216-025-00	METAL GLAZE	100 5% F	1/10W	R1223	I-216-689-11	METAL GLAZE	39K 5% 1/10W
R1025	I-216-033-00	METAL GLAZE	220 5% F	1/10W	R1225	I-215-876-00	METAL OXIDE	15K 5% 1W
R1026	I-216-061-00	METAL GLAZE	3.3K 5% F	1/10W	R1226	I-215-876-00	METAL OXIDE	15K 5% 1W
R1027	I-216-101-00	METAL GLAZE	150K 5% F	1/10W	R1227	I-215-876-00	METAL OXIDE	15K 5% 1W
R1028	I-216-033-00	METAL GLAZE	220 5% F	1/10W	R1228	I-249-421-11	CARBON	2.2K 5% 1/4W
R1029	I-216-061-00	METAL GLAZE	3.3K 5% F	1/10W	R1229	I-249-421-11	CARBON	2.2K 5% 1/4W
R1031	I-216-033-00	METAL GLAZE	220 5% F	1/10W	R1230	I-249-421-11	CARBON	2.2K 5% 1/4W
R1032	I-216-061-00	METAL GLAZE	3.3K 5% F	1/10W	R1231	I-216-031-00	METAL GLAZE	180 5% 1/10W
R1033	I-216-081-00	METAL GLAZE	22K 5% F	1/10W	R1232	I-216-031-00	METAL GLAZE	180 5% 1/10W
R1034	I-216-089-00	METAL GLAZE	47K 5% F	1/10W	R1233	I-216-031-00	METAL GLAZE	180 5% 1/10W
R1035	I-216-073-00	METAL GLAZE	10K 5% F	1/10W	R1234	I-216-031-00	METAL GLAZE	180 5% 1/10W
R1036	I-216-089-00	METAL GLAZE	47K 5% F	1/10W	R1235	I-216-031-00	METAL GLAZE	180 5% 1/10W
R1037	I-216-081-00	METAL GLAZE	22K 5% F	1/10W	R1236	I-216-031-00	METAL GLAZE	180 5% 1/10W
R1040	I-216-025-00	METAL GLAZE	100 5% F	1/10W	R1237	I-249-419-11	CARBON	1.5K 5% 1/4W
R1041	I-216-047-00	METAL GLAZE	820 5% F	1/10W	R1238	I-249-419-11	CARBON	1.5K 5% 1/4W
R1042	I-216-057-00	METAL GLAZE	2.2K 5% F	1/10W	R1239	I-249-419-11	CARBON	1.5K 5% 1/4W
R1043	I-216-061-00	METAL GLAZE	3.3K 5% F	1/10W	R1270	I-216-079-00	METAL GLAZE	18K 5% 1/10W
R1044	I-216-033-00	METAL GLAZE	220 5% F	1/10W	R1280	I-216-109-00	METAL GLAZE	330K 5% 1/10W
R1045	I-216-125-00	METAL GLAZE	1.5M 5% F	1/10W	R1290	I-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R1046	I-216-689-11	METAL CHIP	39K 0.50% F	1/10W	R1291	I-216-081-00	METAL GLAZE	22K 5% 1/10W
R1047	I-216-065-00	METAL GLAZE	4.7K 5% F	1/10W	R1294	I-216-059-00	METAL GLAZE	6.8K 5% 1/10W
R1048	I-216-028-00	METAL GLAZE	2.2K 5% F	1/10W	R1295	I-216-109-00	METAL GLAZE	330K 5% 1/10W
R1049	I-216-085-00	METAL GLAZE	33K 5% F	1/10W	R1296	I-216-095-00	METAL GLAZE	82K 5% 1/10W
R1050	I-216-059-00	METAL GLAZE	2.7K 5% F	1/10W	R1297	I-216-077-00	METAL GLAZE	15K 5% 1/10W
R1051	I-216-105-00	METAL GLAZE	220K 5% F	1/10W	R1298	I-216-077-00	METAL GLAZE	15K 5% 1/10W
R1058	I-216-109-00	METAL GLAZE	330K 5% F	1/10W	R1299	I-216-075-00	METAL GLAZE	12K 5% 1/10W
R1059	I-216-109-00	METAL GLAZE	330K 5% F	1/10W	R1300	I-216-089-00	METAL GLAZE	47K 5% 1/10W
R1061	I-216-109-00	METAL GLAZE	330K 5% F	1/10W	R1301	I-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1062	I-216-103-00	METAL GLAZE	180K 5% F	1/10W	R1302	I-216-113-00	METAL GLAZE	470K 5% 1/10W
R1063	I-216-103-00	METAL GLAZE	180K 5% F	1/10W	R1303	I-216-113-00	METAL GLAZE	470K 5% 1/10W
R1064	I-216-103-00	METAL GLAZE	180K 5% F	1/10W	R1304	I-216-093-00	METAL GLAZE	68K 5% 1/10W
R1065	I-216-103-00	METAL GLAZE	180K 5% F	1/10W	R1305	I-216-686-11	METAL CHIP	30K 0.50% 1/10W
R1066	I-216-073-00	METAL GLAZE	10K 5% F	1/10W	R1306	I-216-063-00	METAL GLAZE	3.9K 5% 1/10W
R1067	I-216-073-00	METAL GLAZE	10K 5% F	1/10W	R1307	I-216-041-00	METAL GLAZE	470 5% 1/10W
R1068	I-216-049-00	METAL GLAZE	1K 5% F	1/10W	R1308	I-216-041-00	METAL GLAZE	470 5% 1/10W
R1069	I-216-133-00	METAL GLAZE	3.3K 5% F	1/10W				

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK	
R1309	I-216-063-00	METAL GLAZE	3.9K 5%	1/10W	RV114	I-238-019-11	RES. ADJ. CARBON 47K	
R1310	I-216-119-00	METAL GLAZE	820K 5%	1/10W	RV115	I-241-631-11	RES. ADJ. CARBON 22K	
R1313	I-216-101-00	METAL GLAZE	150K 5%	1/10W	RV116	I-241-631-11	RES. ADJ. CARBON 22K	
R1314	I-216-053-00	METAL GLAZE	1.5K 5%	1/10W	RV118	I-241-631-11	RES. ADJ. CARBON 22K	
R1315	I-216-077-00	METAL GLAZE	15K 5%	1/10W	RV119	I-241-631-11	RES. ADJ. CARBON 22K	
R1320	I-216-083-00	METAL GLAZE	27K 5%	1/10W	RV120	I-241-631-11	RES. ADJ. CARBON 22K	
R1321	I-216-093-00	METAL GLAZE	68K 5%	1/10W	RV121	I-241-631-11	RES. ADJ. CARBON 22K	
R1322	I-216-037-00	METAL GLAZE	330 5%	1/10W	RV122	I-241-631-11	RES. ADJ. CARBON 22K	
R1323	I-216-057-00	METAL GLAZE	2.2K 5%	1/10W	RV123	I-241-628-11	RES. ADJ. CARBON 2.2K	
R1324	I-216-121-00	METAL GLAZE	1M 5%	1/10W	RV124	I-241-627-11	RES. ADJ. CARBON 1K	
R1325	I-216-085-00	METAL GLAZE	33K 5%	1/10W	RV125	I-241-627-11	RES. ADJ. CARBON 1K	
R1326	I-216-065-00	METAL GLAZE	4.7K 5%	1/10W	RV205	I-241-631-11	RES. ADJ. CARBON 22K	
R1327	I-216-099-00	METAL GLAZE	120K 5%	1/10W				
R1328	I-216-099-00	METAL GLAZE	120K 5%	1/10W				
R1329	I-216-093-00	METAL GLAZE	68K 5%	1/10W				
R1330	I-216-063-00	METAL GLAZE	3.9K 5%	1/10W				
R1331	I-216-051-00	METAL GLAZE	1.2K 5%	1/10W				
R1332	I-216-057-00	METAL GLAZE	2.2K 5%	1/10W				
R1333	I-216-057-00	METAL GLAZE	2.2K 5%	1/10W				
R1334	I-216-055-00	METAL GLAZE	1.8K 5%	1/10W				
R1335	I-216-035-00	METAL GLAZE	270 5%	1/10W				
R1336	I-216-089-00	METAL GLAZE	47K 5%	1/10W				
R1337	I-216-113-00	METAL GLAZE	470K 5%	1/10W				
R1338	I-216-049-00	METAL GLAZE	1K 5%	1/10W				
R1339	I-216-097-00	METAL GLAZE	100K 5%	1/10W				
R1340	I-216-097-00	METAL GLAZE	100K 5%	1/10W				
R1341	I-216-111-00	METAL GLAZE	390K 5%	1/10W				
R1342	I-216-694-11	METAL CHIP	62K 0.50%	1/10W				
R1343	I-216-121-00	METAL GLAZE	1M 5%	1/10W				
R1344	I-216-073-00	METAL GLAZE	10K 5%	1/10W				
R1345	I-216-055-00	METAL GLAZE	1.8K 5%	1/10W				
R1346	I-216-047-00	METAL GLAZE	820 5%	1/10W				
R1347	I-216-073-00	METAL GLAZE	10K 5%	1/10W				
R1348	I-216-073-00	METAL GLAZE	10K 5%	1/10W				
R1349	I-216-073-00	METAL GLAZE	10K 5%	1/10W				
R1350	I-216-073-00	METAL GLAZE	10K 5%	1/10W				
R1351	I-216-073-00	METAL GLAZE	10K 5%	1/10W				
R1352	I-216-073-00	METAL GLAZE	10K 5%	1/10W				
R1353	I-216-115-00	METAL GLAZE	560K 5%	1/10W				
R1371	I-216-057-00	METAL GLAZE	2.2K 5%	1/10W				
R1372	I-216-057-00	METAL GLAZE	2.2K 5%	1/10W				
R1373	I-216-057-00	METAL GLAZE	2.2K 5%	1/10W				
R1380	I-216-073-00	METAL GLAZE	10K 5%	1/10W				
R1381	I-216-073-00	METAL GLAZE	10K 5%	1/10W				
R1382	I-216-093-00	METAL GLAZE	68K 5%	1/10W				
R1383	I-216-091-00	METAL GLAZE	56K 5%	1/10W				
R1392	I-216-089-00	METAL GLAZE	7K 5%	1/10W				
R1393	I-216-109-00	METAL GLAZE	350K 5%	1/10W				
		<VARIABLE RESISTOR>						
RV101	I-241-763-11	RES. ADJ. CERMET 4.7K			C521	I-124-907-11	ELECT. 10MF 20%	50V
RV102	I-241-763-11	RES. ADJ. CERMET 4.7K			C523	I-106-363-00	MYLAR 0.0068MF 10%	50V
RV103	I-238-009-11	RES. ADJ. CARBON 220			C524	I-102-116-00	CEMETIC 680PF 10%	50V
RV104	I-238-009-11	RES. ADJ. CARBON 220			C525	I-102-820-00	CEMETIC 330PF 5%	50V
RV105	I-241-627-11	RES. ADJ. CARBON 1K			C526	I-102-973-00	CEMETIC 100PF 5%	50V
RV106	I-241-627-11	RES. ADJ. CARBON 1K			C527	I-124-514-11	ELECT. 100MF 20%	50V
RV107	I-241-627-11	RES. ADJ. CARBON 1K			C528	I-102-125-00	CEMETIC 0.0047MF 10%	50V
RV108	I-241-630-11	RES. ADJ. CARBON 10K			C529	I-124-513-11	ELECT. 47MF 20%	50V
RV109	I-241-765-11	RES. ADJ. CERMET 22K			C530	I-163-097-00	CEMETIC 15PF 5%	50V
RV110	I-241-630-11	RES. ADJ. CARBON 10K			C531	I-131-370-00	TANTALUM 6.8MF 10%	16V
RV111	I-241-630-11	RES. ADJ. CARBON 10K			C532	I-124-557-11	ELECT. 1000MF 20%	25V
RV112	I-238-019-11	RES. ADJ. CARBON 47K			C533	I-124-927-11	ELECT. 4.7MF 20%	50V
RV113	I-238-019-11	RES. ADJ. CARBON 47K			C534	I-124-768-11	ELECT. 4.7MF 20%	50V

D

The components identified by shading and mark **A** are critical for safety.  
Replace only with part number specified.

Les composants identifiés par une trame et une marque **A** sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C535	1-136-161-00	FILM	0.047MF	5%	50V		
C536	1-124-927-11	ELECT	4.7MF	20%	50V		<CONNECTOR>
C537	1-124-510-11	ELECT	220MF	20%	35V		
C538	1-124-910-11	ELECT	47MF	20%	50V		
C539	1-136-328-11	FILM	1.8MF	5%	200V		
C540	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V		
C541	1-163-035-00	CERAMIC CHIP	0.047MF		50V		
C542	1-126-103-11	ELECT	470MF	20%	16V		
C545	1-126-101-11	ELECT	100MF	20%	16V		CN508 *1-564-104-00 PIN, CONNECTOR (B3P-VH) 3P
C546	1-124-907-11	ELECT	10MF	20%	50V		CN509 *1-564-506-11 PLUG, CONNECTOR 3P
C547	1-124-907-11	ELECT	10MF	20%	50V		
C548	1-124-907-11	ELECT	10MF	20%	50V		<DIODE>
C549	1-124-907-11	ELECT	10MF	20%	50V		
C550	1-124-907-11	ELECT	10MF	20%	50V		D501 8-719-404-46 DIODE MA110
C551	1-124-927-11	ELECT	4.7MF	20%	50V		D502 8-719-404-46 DIODE MA110
C552	1-101-004-00	CERAMIC	0.01MF		50V		D503 8-719-404-46 DIODE MA110
C553	1-126-103-11	ELECT	470MF	20%	16V		D504 8-719-404-46 DIODE MA110
C563	1-106-383-00	MYLAR	0.047MF	10%	100V		D506 8-719-908-03 DIODE GPOSD
C564	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V		D507 8-719-404-46 DIODE MA110
C567	1-123-875-11	ELECT	10MF	20%	50V		D508 8-719-404-46 DIODE MA110
C568	1-130-736-11	FILM	0.01MF	5%	50V		D511 8-719-404-46 DIODE MA110
C569	1-130-471-00	FILM	0.001MF	5%	50V		D512 8-719-404-46 DIODE MA110
C570	1-163-117-00	CERAMIC CHIP	100PF	5%	50V		D514 8-719-404-46 DIODE MA110
C571	1-124-913-11	ELECT	470MF	20%	50V		D520 8-719-800-76 DIODE ISS226
C572	1-101-004-00	CERAMIC	0.01MF		50V		D521 8-719-800-76 DIODE ISS226
C574	1-106-351-00	MYLAR	0.0022MF	10%	100V		D589 8-719-800-76 DIODE ISS226
C575	1-106-351-00	MYLAR	0.0022MF	10%	100V		D591 8-719-404-46 DIODE MA110
C581	1-123-875-11	ELECT	10MF	20%	50V		D593 8-719-404-46 DIODE MA110
C582	1-123-875-11	ELECT	10MF	20%	50V		D594 8-719-404-46 DIODE MA110
C583	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V		D595 8-719-109-89 DIODE RD5.6ES-B2
C584	1-163-121-00	CERAMIC CHIP	150PP	5%	50V		D596 8-719-977-69 DIODE DT224B
C585	1-163-200-00	CERAMIC CHIP	0.0015MF	5%	50V		
C586	1-123-875-11	ELECT	10MF	20%	50V		D598 8-719-800-76 DIODE ISS226
C587	1-163-209-00	CERAMIC CHIP	0.0015MF	5%	50V		D1601 8-719-105-X6 DIODE RD6.2M-B1
C588	1-163-160-00	FILM	0.056MF	5%	50V		D1603 8-719-977-61 DIODE DT220B
C593	1-102-122-00	CERAMIC	0.0027MF	10%	50V		D1606 8-719-981-00 DIODE ERK81-004
C594	1-163-209-00	CERAMIC CHIP	0.0015MF	5%	50V		D1607 8-719-981-00 DIODE ERK81-004
C595	1-163-209-00	CERAMIC CHIP	0.0015MF	5%	50V		D1608 8-719-977-02 DIODE DT25.6A
C596	1-124-042-51	ELECT	0.47MF	20%	50V		D1609 8-719-977-49 DIODE DT215B
C597	1-124-902-00	ELECT	0.47MF	20%	50V		D1610 8-719-404-46 DIODE MA110
C598	1-124-126-00	ELECT	47MF	20%	10V		D1611 8-729-101-31 TRANSISTOR N1311
C599	1-124-907-11	ELECT	10MF	20%	50V		D1612 8-719-404-46 DIODE MA110
C600	1-126-235-11	ELECT	22MF	20%	50V		D1613 8-719-404-46 DIODE MA110
C601	1-131-351-00	TANTALUM	4.7MF	10%	35V		D1614 8-719-977-49 DIODE DT215B
C602	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V		D1618 8-719-977-49 DIODE DT215B
C603	1-124-907-11	ELECT	10MF	20%	50V		
C604	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V		D1620 8-719-400-18 DIODE MA1524X
C605	1-124-349-11	ELECT	15MF	20%	50V		D1622 8-719-400-18 DIODE MA1524X
C606	1-124-500-51	ELECT	100MF	20%	50V		D1623 8-719-404-46 DIODE MA1524X
C607	1-124-922-11	ELECT	100MF	20%	50V		D1626 8-719-404-46 DIODE MA110
C608	1-126-163-11	ELECT	4.7MF	20%	50V		D1627 8-719-404-46 DIODE MA110
C609	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V		
C610	1-126-163-11	ELECT	4.7MF	20%	50V		<FUSE>
C611	1-124-482-11	ELECT	33MF	20%	35V		
C612	1-136-257-00	FILM	0.0039MF	5%	50V		F1601A-1-533-177-21 FUSE, MICRO (SECONDARY) 11250V 10A
C613	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V		1-533-189-11 HOLDER, FUSE; F1601
C614	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V		
C615	1-124-042-51	ELECT	0.47MF	20%	50V		<IC>
C620	1-163-133-00	CERAMIC CHIP	470PF	5%	50V		
C621	1-163-117-00	CERAMIC CHIP	100PF	5%	50V		
C641	1-163-035-00	CERAMIC CHIP	0.047MF		50V		

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
IC501	8-759-909-70	IC CX23025		Q1615	8-729-216-22	TRANSISTOR 2SA1162-G	
IC502	8-759-100-60	IC MPC1377C		Q1617	8-729-216-22	TRANSISTOR 2SA1162-G	
IC503	8-759-801-98	IC LAT830		Q1618	8-729-216-22	TRANSISTOR 2SA1162-G	
IC504	8-759-701-79	IC MC7812CT				<RESISTOR>	
IC505	8-759-009-51	IC MC14538RF		R501	1-216-089-00	METAL GLAZE	47K 5% 1/10W
IC831	8-759-509-29	IC XRU4011RF		R502	1-216-089-00	METAL GLAZE	47K 5% 1/10W
IC832	8-759-509-37	IC XRU4070RF		R503	1-249-437-11	CARBON	47K 5% 1/4W F
IC833	8-759-009-51	IC MC14538RF		R504	1-216-073-00	METAL GLAZE	10K 5% 1/10W
IC1601	8-759-509-91	IC KRA1039RF		R505	1-249-393-11	CARBON	10K 5% 1/4W F
		<JUMPER RESISTOR>					
J8510	1-216-295-00	METAL GLAZE	0 5% 1/10W	R506	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
		<COIL>		R507	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
L501	1-410-093-11	INDUCTOR 33MM6		R508	1-216-085-00	METAL GLAZE	33K 5% 1/10W
L502	1-410-665-31	INDUCTOR 15UH		R509	1-216-687-11	METAL CHIP	33K 0.5% 1/10W
L503	1-424-625-11	COIL, CHOKE (PMC) 390uH		R510	1-216-683-11	METAL CHIP	22K 0.5% 1/10W
L506	1-412-530-31	INDUCTOR 27uH					
L1601	1-459-155-00	COIL (WITH CORE) 47uH		R511	1-216-675-11	METAL CHIP	10K 0.5% 1/10W
L1602	1-492-785-11	COIL, CHOKE 600uH		R512	1-218-761-11	METAL CHIP	240K 0.5% 1/10W
L1603	1-410-397-21	FERRITE BEAD INDUCTOR		R513	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
		<TRANSISTOR>		R514	1-218-754-11	METAL CHIP	120K 0.5% 1/10W
				R515	1-216-081-00	METAL GLAZE	22K 5% 1/10W
Q501	8-729-901-01	TRANSISTOR DTC144EK		R516	1-216-073-00	METAL GLAZE	10K 5% 1/10W
Q502	8-729-901-01	TRANSISTOR DTC144EK		R517	1-218-768-11	METAL CHIP	470K 0.5% 1/10W
Q503	8-729-901-06	TRANSISTOR DTA144EK		R518	1-249-422-11	CARBON	2.7K 5% 1/4W F
Q504	8-729-901-01	TRANSISTOR DTC144EK		R519	1-216-085-00	METAL GLAZE	33K 5% 1/10W
Q505	8-729-422-27	TRANSISTOR 2SD6601A-Q		R520	1-216-677-11	METAL CHIP	12K 0.5% 1/10W
Q508	8-729-422-27	TRANSISTOR 2SD6601A-Q					
Q509	8-729-422-27	TRANSISTOR 2SD6601A-Q		R521	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
Q510	8-729-901-06	TRANSISTOR DTA144EK		R522	1-216-107-00	METAL GLAZE	270K 5% 1/10W
Q512	8-729-422-27	TRANSISTOR 2SD6601A-Q		R523	1-216-081-00	METAL GLAZE	22K 5% 1/10W
Q513	8-729-216-27	TRANSISTOR 2SA1162-G		R524	1-216-049-00	METAL GLAZE	1K 5% 1/10W
				R525	1-216-434-11	METAL OXIDE	1.8K 5% 1W F
Q515	8-729-313-42	TRANSISTOR 2SD1134-C					
Q518	8-729-422-27	TRANSISTOR 2SD6601A-Q		R531	1-216-089-00	METAL GLAZE	47K 5% 1/10W
Q519	8-729-422-27	TRANSISTOR 2SD6601A-Q		R532	1-216-097-00	METAL GLAZE	100K 5% 1/10W
Q532	8-729-422-27	TRANSISTOR 2SD6601A-Q		R533	1-216-089-00	METAL GLAZE	47K 5% 1/10W
Q569	8-729-907-27	TRANSISTOR TMX1		R534	1-216-097-00	METAL GLAZE	100K 5% 1/10W
				R535	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
Q576	8-729-920-48	TRANSISTOR LMH2					
Q579	8-729-920-48	TRANSISTOR LMH2		R536	1-211-881-11	FUSIBLE	100 5% 1/4W F
Q889	8-729-216-22	TRANSISTOR 2SA1162-G		R537	1-215-867-00	METAL OXIDE	470 5% 1W F
Q599	8-729-920-48	TRANSISTOR LMH2		R538	1-216-095-00	METAL GLAZE	82K 5% 1/10W
Q833	8-729-216-23	TRANSISTOR 2SA1162-G		R539	1-216-095-00	METAL GLAZE	82K 5% 1/10W
				R540	1-216-101-00	METAL GLAZE	150K 5% 1/10W
Q834	8-729-422-27	TRANSISTOR 2SD601A-Q					
Q835	8-729-422-27	TRANSISTOR 2SD601A-Q		R541	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W
Q836	8-729-255-12	TRANSISTOR 2SC2551-0		R542	1-216-079-00	METAL GLAZE	12K 5% 1/10W
Q1601	8-729-422-27	TRANSISTOR 2SD601A-Q		R543	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
Q1602	8-729-422-27	TRANSISTOR 2SD601A-Q		R544	1-216-101-00	METAL GLAZE	150K 5% 1/10W
				R545	1-216-041-00	METAL GLAZE	470 5% 1/10W
Q1603	8-729-422-27	TRANSISTOR 2SD601A-Q					
Q1604	8-729-216-22	TRANSISTOR 2SA1162-G		R546	1-216-091-00	METAL GLAZE	56K 5% 1/10W
Q1605	8-729-119-80	TRANSISTOR 2SC2685-L		R547	1-216-121-00	METAL GLAZE	1M 5% 1/10W
Q1606	8-729-133-42	TRANSISTOR 2SC2334-L		R548	1-216-107-00	METAL GLAZE	270K 5% 1/10W
Q1607	8-729-422-27	TRANSISTOR 2SD601A-Q		R549	1-216-101-00	METAL GLAZE	150K 5% 1/10W
				R550	1-216-354-11	METAL OXIDE	2.7 5% 1W F
Q1608	8-729-422-27	TRANSISTOR 2SD601A-Q					
Q1609	8-729-422-27	TRANSISTOR 2SD601A-Q		R552	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
Q1610	8-729-422-27	TRANSISTOR 2SD601A-Q		R553	1-216-091-00	METAL GLAZE	56K 5% 1/10W
Q1611	8-729-422-27	TRANSISTOR 2SD601A-Q		R554	1-216-073-00	METAL GLAZE	10K 5% 1/10W
Q1612	8-729-422-27	TRANSISTOR 2SD601A-Q		R555	1-216-077-00	METAL GLAZE	15K 5% 1/10W
				R557	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
Q1613	8-729-422-27	TRANSISTOR 2SD601A-Q					
Q1614	8-729-422-27	TRANSISTOR 2SD601A-Q		R558	1-216-049-00	METAL GLAZE	1K 5% 1/10W
Q1615	8-729-216-22	TRANSISTOR 2SA1162-G		R559	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R560	1-216-037-00	METAL GLAZE	330 5% 1/10W	R1519	1-216-031-00	METAL GLAZE	180 5% 1/10W
R561	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R1520	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R562	1-216-037-00	METAL GLAZE	2.2K 5% 1/10W	R1601	1-216-685-11	METAL CHIP	27K 0.50% 1/10W
R563	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W F	R1602	1-216-681-11	METAL CHIP	18K 0.50% 1/10W
R564	1-249-410-11	CARBON	270 5% 1/4W F	R1603	1-216-671-11	METAL CHIP	6.8K 0.50% 1/10W
R565	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W	R1604	1-249-433-11	CARBON	22K 5% 1/4W F
R566	1-216-025-00	METAL GLAZE	100 5% 1/10W	R1605	1-216-070-00	METAL GLAZE	7.5K 5% 1/10W
R567	1-216-095-00	METAL GLAZE	82K 5% 1/10W	R1606	1-216-070-00	METAL GLAZE	7.5K 5% 1/10W
R568	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	R1607	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R569	1-216-083-00	METAL GLAZE	3.9K 5% 1/10W	R1608	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R570	1-216-093-00	METAL GLAZE	68K 5% 1/10W	R1609	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R571	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R1610	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R572	1-216-093-00	METAL GLAZE	82K 5% 1/10W	R1611	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R573	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	R1612	1-215-913-11	METAL OXIDE	220 5% 3W F
R574	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	R1613	1-216-025-00	METAL GLAZE	100 5% 1/10W
R575	1-216-105-00	METAL GLAZE	220K 5% 1/10W	R1614	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R576	1-216-129-00	METAL GLAZE	330K 5% 1/10W	R1615	1-216-657-11	METAL CHIP	1.8K 0.50% 1/10W
R577	1-216-105-00	METAL GLAZE	220K 5% 1/10W	R1616	1-216-629-11	METAL CHIP	120 0.50% 1/10W
R578	1-249-457-11	CARBON	6.8 5% 1/4W F	R1617	1-216-659-11	METAL CHIP	2.2K 0.50% 1/10W
R579	1-249-457-11	CARBON	6.8 5% 1/4W F	R1618	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R580	1-216-001-00	METAL GLAZE	10 5% 1/10W	R1620	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R590	1-216-105-00	METAL GLAZE	220K 5% 1/10W	R1621	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R591	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	R1622	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R592	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1623	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R593	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1624	1-216-246-00	METAL GLAZE	100K 5% 1/8W
R594	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1625	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R595	1-216-075-00	METAL GLAZE	12K 5% 1/10W	R1626	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R596	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R1627	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R597	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W	R1628	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R598	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1629	1-216-683-11	METAL CHIP	22K 0.50% 1/10W
R599	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1630	1-216-683-11	METAL CHIP	22K 0.50% 1/10W
R600	1-216-075-00	METAL GLAZE	12K 5% 1/10W	R1631	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R601	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1632	1-216-042-00	METAL GLAZE	510 5% 1/10W
R602	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R1633	1-216-109-00	METAL GLAZE	330K 5% 1/10W
R603	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1634	1-216-099-00	METAL GLAZE	120K 5% 1/10W
R604	1-216-033-00	METAL GLAZE	68K 5% 1/10W	R1635	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R605	1-216-053-00	METAL GLAZE	12K 5% 1/10W	R1636	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R606	1-216-053-00	METAL GLAZE	4.7K 5% 1/10W	R1637	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W
R607	1-216-055-00	METAL GLAZE	4.7K 5% 1/10W	R1638	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R608	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R1639	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W
R609	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1640	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W
R610	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R1641	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R611	1-216-669-11	METAL CHIP	5.6K 0.50% 1/10W	R1642	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R612	1-216-675-11	METAL CHIP	10K 0.50% 1/10W	R1643	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R613	1-216-105-00	METAL GLAZE	220K 5% 1/10W	R1644	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R614	1-216-754-11	METAL CHIP	120K 0.50% 1/10W	R1645	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R615	1-216-657-11	METAL CHIP	52K 0.50% 1/10W	R1646	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R616	1-218-755-11	METAL CHIP	130K 0.50% 1/10W	R1647	1-216-685-11	METAL CHIP	27K 0.50% 1/10W
R617	1-216-686-11	METAL CHIP	30K 0.50% 1/10W	R1648	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R618	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R1649	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R619	1-216-436-00	METAL OXIDE	3.9K 5% 1/10W F	R1650	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R620	1-216-679-11	METAL CHIP	10K 0.50% 1/10W	R1651	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R621	1-216-672-11	METAL CHIP	7.5K 0.50% 1/10W	R1652	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R622	1-216-675-11	METAL CHIP	10K 0.50% 1/10W	R1653	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R623	1-249-435-11	CARBON	33K 5% 1/4W F	R1654	1-216-681-11	METAL CHIP	18K 0.50% 1/10W
R624	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1655	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R625	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1656	1-216-643-11	METAL CHIP	470 0.50% 1/10W
R626	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R1657	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R627	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1658	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W
R628	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1659	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R629	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1660	1-216-649-11	METAL CHIP	820 0.50% 1/10W
R630	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R1661	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R631	1-249-425-11	CARBON	4.7K 5% 1/4W F			<VARIABLE RESISTOR>	
R632	1-216-033-00	METAL GLAZE	220 5% 1/10W	RV501	1-238-019-11	RES. ADJ. CARBON 47K	
R633	1-216-049-00	METAL GLAZE	1K 5% 1/10W				
R634	1-216-017-00	METAL GLAZE	47 5% 1/10W				

# PVM-6041QM

The components identified by **D** in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

Les composants identifiés par une trame et une marque **D** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark **D** are critical for safety. Replace only with part number specified.

**D** **S**

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
RV502	1-241-631-11	RES, ADJ, CARBON 22K					
RV503	1-241-763-11	RES, ADJ, CERMET 4.7K					
RV504	1-224-250-XK	RES, ADJ, METAL GLAZE 2.2K					
RV505	1-238-009-11	RES, ADJ, CARBON 220					
RV506	1-241-627-11	RES, ADJ, CARBON 1K					
RV507	1-241-628-11	RES, ADJ, CARBON 2.2K					
RV508	1-241-627-11	RES, ADJ, CARBON 1K					
RV509	1-238-020-11	RES, ADJ, CARBON 100K					
RV511	1-241-629-11	RES, ADJ, CARBON 4.7K					
RV512	1-241-629-11	RES, ADJ, CARBON 4.7K					
RV514	1-238-019-11	RES, ADJ, CARBON 47K					
RV515	1-238-021-11	RES, ADJ, CARBON 220K					
RV516	1-241-763-11	RES, ADJ, CERMET 4.7K					
RV831	1-223-997-00	RES, ADJ, METAL GLAZE 100K					
RV832	1-241-764-11	RES, ADJ, CERMET 10K					
RV835	1-224-997-00	RES, ADJ, METAL GLAZE 100K					
RV1601	1-241-762-11	RES, ADJ, CERMET 2.2K					
RV1602	1-241-627-11	RES, ADJ, CARBON 1K					
RV1603	1-223-997-00	RES, ADJ, METAL GLAZE 147K					
<RELAY>							
RY1601	I-515-481-21	RELAY (G2R-212P-V)					
<TRANSFORMER>							
T1601	I-437-216-11	TRANSFORMER, DRIVE					
<THERMISTOR>							
TH501	I-807-971-11	THERMISTOR					
*****							
A-1394-392-A S BOARD, COMPLETE							
*****							
<CAPACITOR>							
C1101	1-163-119-00	CERAMIC CHIP 120PF	5%	50V	R1101	1-216-053-00	METAL GLAZE
C1102	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	R1102	1-216-067-00	METAL GLAZE
C1103	I-124-589-11	ELECT 47MF	20%	16V	R1103	1-216-059-00	METAL GLAZE
C1104	1-163-031-11	CERAMIC CHIP 0.01MF		50V	R1104	1-216-073-00	METAL GLAZE
C1105	1-163-114-00	CERAMIC CHIP 75PF	5%	50V	R1105	1-216-031-00	METAL GLAZE
C1106	1-163-101-00	CERAMIC CHIP 22PF	5%	50V	R1106	1-216-059-00	METAL GLAZE
C1107	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	R1107	1-216-071-00	METAL GLAZE
C1108	1-163-119-00	CERAMIC CHIP 120PF	5%	50V	R1108	1-216-039-00	METAL GLAZE
C1109	1-163-031-11	CERAMIC CHIP 0.01MF		50V	R1109	1-216-063-00	METAL GLAZE
C1110	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	R1110	1-216-069-00	METAL GLAZE
C1111	I-163-018-00	CERAMIC CHIP 0.0056MF	10%	50V	R1111	1-216-065-00	METAL GLAZE
C1112	I-126-160-11	ELECT 1MF	20%	50V	R1112	1-216-059-00	METAL GLAZE
C1113	I-163-119-00	CERAMIC CHIP 120PF	5%	50V	R1113	1-216-069-00	METAL GLAZE
C1114	I-163-103-00	CERAMIC CHIP 27PF	5%	50V	R1114	1-216-055-00	METAL GLAZE
C1115	I-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	R1115	1-216-061-00	METAL GLAZE
C1116	I-163-114-00	CERAMIC CHIP 75PF	5%	50V	R1116	1-216-069-00	METAL GLAZE
C1117	I-124-589-11	ELECT 47MF	20%	16V	R1117	1-216-061-00	METAL GLAZE
C1118	I-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	R1118	1-216-073-00	METAL GLAZE
C1119	I-163-020-00	CERAMIC CHIP 0.0082MF	10%	50V	R1119	1-216-049-00	METAL GLAZE
C1120	I-163-097-00	CERAMIC CHIP 15PF	5%	50V	R1120	1-216-097-00	METAL GLAZE
C1121	I-163-097-00	CERAMIC CHIP 15PF	5%	50V	R1121	1-216-121-00	METAL GLAZE
C1122	I-163-222-11	CERAMIC CHIP 5PF	0.25PF	50V	R1122	1-216-039-00	METAL GLAZE
C1123	I-163-097-00	CERAMIC CHIP 15PF	5%	50V	R1123	1-216-065-00	METAL GLAZE
C1124	I-163-097-00	CERAMIC CHIP 15PF	5%	50V	R1124	1-216-029-00	METAL GLAZE
C1125	I-163-097-00	CERAMIC CHIP 15PF	5%	50V	R1125	1-216-029-00	METAL GLAZE
C1126	I-163-097-00	CERAMIC CHIP 15PF	5%	50V	R1126	1-216-053-00	METAL GLAZE
C1127	I-163-097-00	CERAMIC CHIP 15PF	5%	50V	R1127	1-216-043-00	METAL GLAZE
C1128	I-163-097-00	CERAMIC CHIP 15PF	5%	50V	R1128	1-216-049-00	METAL GLAZE