

PVM-2042QM/2044QM

SERVICE MANUAL

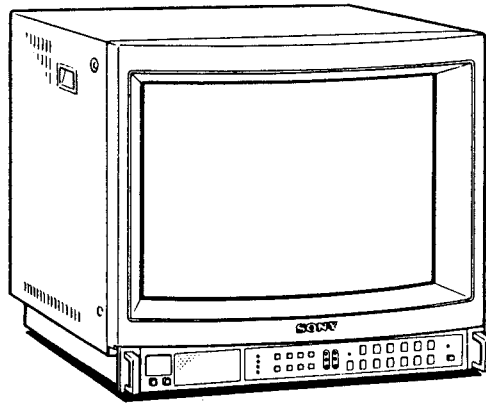
6265
AEP Model

PVM-2042 QM

Chassis No. SCC-C74C-A

PVM-2044QM

Chassis No. SCC-C74B-A



SPECIFICATIONS

Video signal

Frequency response

Line input: More than 7 MHz (-3 dB)
Y/C input: More than 8 MHz (-3 dB)
Component input (Y/R-Y/B-Y): More than 8 MHz (-3 dB)
R.G.B. input (analog): More than 9 MHz (-3 dB)

Chrominance subcarrier attenuation

3.58 MHz: Less than -30 dB (comb filter)
4.43 MHz: Less than -36 dB (trap filter)

Band pass

3.58 MHz: 2 MHz equiband
4.43 MHz: 2 MHz equiband

Chrominance/luminance time error

Composite: Less than ± 100 ns
Y/C Video: Less than ± 50 ns
Component: Less than ± 50 ns

Aperture correction

-4.5 to +6.5 dB (at 4.5 MHz)

Synchronization

AFC time constant: 1 msec

Line pull range

Horizontal: ± 500 Hz
Vertical: 8 Hz

Picture performance

Normal scan 7% overscan of CRT effective screen area
Under scan 3% underscan of CRT effective screen area
H. linearity error Less than 8%
V. linearity error Less than 7%
Convergence Central area: 0.7 mm (Typical)
Peripheral area: 1.3 mm (Typical)

Raster size stability

H: 1.0%, V: 1.5%

High voltage regulation

4%

Audio output

0.6 W (Max.)

CRT

EBU phosphor

Color temperature

6,500K/9,300K (+8MPCD), selectable

Inputs

For both models

VIDEO IN: BNC connector
AUDIO IN: Phono jack
VTR: 8-pin connector (See "VTR connector" on page 14.)
Y/C-INPUT
VIDEO: 4-pin DIN connector (See "Y/C-INPUT connector" on page 15.)
AUDIO: Phono jack

PVM-2044QM only

EXT SYNC: BNC connector
composite sync 1-4 Vp-p, negative, 75 ohms terminated, automatically released when cable is connected to the output connector.
ANALOG RGB/COMPONENT: BNC connector
R, G, B and Y channels: 0.7 Vp-p, ± 6 dB, non composite
R-Y and B-Y channels: 0.525 Vp-p, ± 6 dB
(Standard color bar signal of 75-percent chrominance)
When the composite signal is fed to the G or Y channels, the monitor can be activated in the internal sync mode.
75 ohms terminated, automatically released when a cable is connected to the output connector.
CTRL S: Minijack

PVM-2042QM only

EXT SYNC: BNC connector
composite sync 1-4 Vp-p, negative, 75 ohms terminated, automatically released when cable is connected to the output connector.
ANALOG RGB: BNC connector
0.7 Vp-p, ± 6 dB, non composite
75 ohms terminated, automatically released when cable is connected to the output connector.
DIGITAL RGB: 9-pin connector (See "DIGITAL RGB connector" on page 14.)
CTRL S: Minijack

- Continued on next page -



TRINITRON® COLOR VIDEO MONITOR
SONY®

Outputs

For both models

VIDEO OUT: BNC connector
Loop-through
AUDIO OUT: Phono jack
Loop-through

PVM-2044QM only

EXT SYNC: BNC connector
Loop-through
ANALOG RGB/COMPONENT: BNC connector
Loop-through
CTRL S: Minijack
Loop-through

PVM-2042QM only

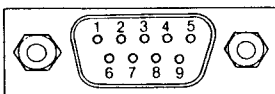
EXT SYNC: BNC connector
Loop-through
ANALOG RGB: BNC connector
Loop-through
CTRL S: Minijack
Loop-through

General

AC regulation range 220 - 240 V AC, 50/60 Hz
Power consumption Approx. 98 Wh
Operating temperature range 0°C to +35°C (32°F to 95°F)
Dimensions Approx. 452 × 458 × 513 mm (w/h/d)
(17⁷/₈ × 18¹/₈ × 20¹/₈ inches)
Weight Approx. 31 kg (68 lb 5 oz)
Supplied accessory Rack mounting bracket (for EIA standard racks)
(1 set)

Pin assignment

DIGITAL RGB connector (9-pin)



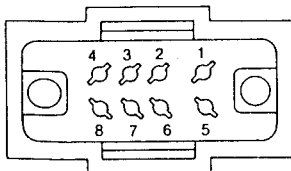
Pin No.	Signal	Signal level
1	GND (ground)	GND
2	GND for the signal	GND
3	Red input	Positive polarity (TTL level)
4	Green input	↑
5	Blue input	↑
6	Intensity	↑
7	NC (no connection)	↔
8	H-SYNC	Positive or negative polarity (TTL level)
9	V-SYNC	Same polarity as H-SYNC (TTL level)

Note

If the intensity function of Pin No. 6 is not used, set the internal switch on the Qd board to the B position, and connect the Pin No. 6 to the GND. With this setting, when the positive intensity signal synchronized to the characters on the screen is fed, the luminance of the characters will be increased.

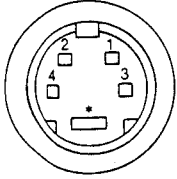
If the specific intensity function, such as that of an IBM microcomputer, is used, set the internal switch on the Qd board to the A position, and feed the intensity control signal to Pin No. 6.

VTR connector (8-pin)



Pin No.	Signal	Description
1	Audio input	-5 dBs, high input impedance (more than 47 kilohms)
2	Video input	Composite 1 Vp-p, sync negative, 75 ohms
3	GND	GND
4	NC	↔
5	GND	GND
6	GND	GND
7	GND	GND
8	GND	GND

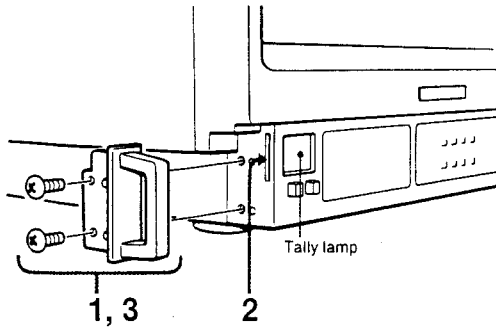
Y/C (Y/C separate) INPUT connector (4-pin DIN)



Pin No.	Signal	Description
1	Y-input	1 Vp-p. sync negative, 75 ohms
2	CHROMA sub-carrier-input	300 mVp-p, burst Delay time between Y and C: within 0±100 nsec., 75 ohms
3	GND for Y-input	GND
4	GND for CHROMA-input	GND
*	Slot for internal switch	Press the switch inside this slot. The signal from Y/C-INPUT connector has priority over the one from VTR (8-pin) connector.

Design and specifications subject to change without notice.

Attaching the indication number (PVM-2044QM only)



- 1 Remove the screws and the left handle bracket.
- 2 Insert the indication number sheet.
- 3 Attach the left handle bracket with the screws.


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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.

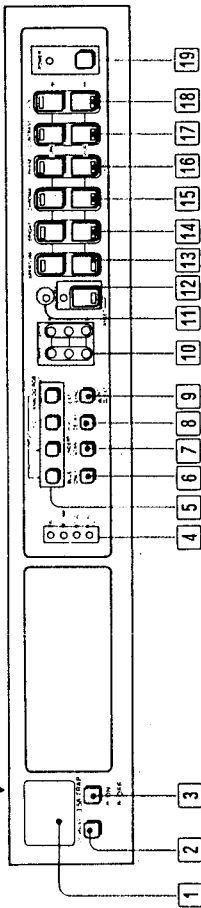
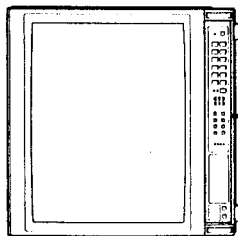
SAFETY-RELATED COMPONENT WARNING !!

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.

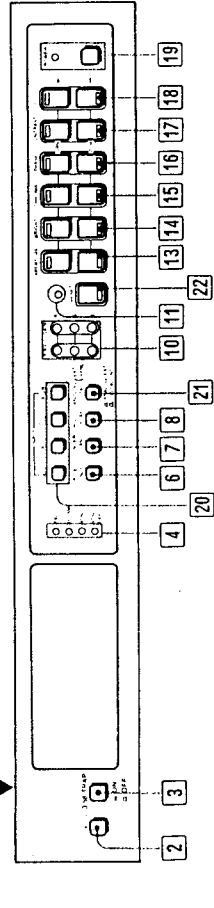
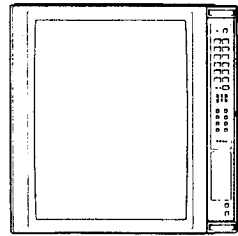
SECTION 1 GENERAL

1-1. LOCATION AND FUNCTION PARTS AND CONTROLS

Front panel PVM-2044QM



Front panel PVM-2042QM



1 Tally lamp
Lights up when the video camera connected to this unit is selected, indicating that the picture is being recorded. The indication number can be attached on the lamp using the supplied sheets (see page 15).

2 DEGAUSS button
Press this button momentarily. The screen will be demagnetized for approximately 5 seconds. Wait for 10 minutes or more before activating this button again.

3 3.58 TRAP button (NTSC-USA only)
Normally set this button in released position (□ OFF) to obtain fine picture detail without color spill or color noise. When a microcomputer, such as APPLE II, is connected and stripes appear, depress this button (= ON).

4 Color system indicators
The indicator of the color system being received lights up in red.

5 INPUT select buttons
Press to select the program to be monitored.
A: for a signal fed through the LINE A connectors.
B: for a signal fed through the LINE B connectors.
Y/C/VTR: for a signal fed through the Y/C-INPUT connectors or VTR connector.

When both the Y/C-INPUT and VTR connectors are connected to video equipment, the input signal fed through the Y/C-INPUT connector has priority over the one fed through the VTR connector.
ANALOG RGB/COMPONENT: for a signal fed through the ANALOG RGB/COMPONENT connectors.
For connection, refer to the explanation of ANALOG RGB/COMPONENT connectors on page 11.

6 BLUE ONLY button
Depress 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 observation of VTR noise.

* "Phase" control adjustment is effective only for the NTSC signals.

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

8 H-V DELAY button
Depress 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 signal is displayed near the center of the screen.

9 EXT SYNC (external sync) button
Normally keep this button released (INT). The monitor operates on the sync signal from the displayed composite video signal.
To operate the monitor on an external sync signal, feed through the EXT SYNC connector on the rear panel, depress the button (EXT).

10 BIAS and GAIN adjustment controls
Used for white balance adjustment.
Gain and BIAS controls are provided for the R (red), G (green) and B (blue) screens.

BIAS: Adjust the white balance and brightness of the screen at the lowlight with these controls.
GAIN: Adjust the white balance and contrast of the screen at the highlight with these controls.

11 Response indicator
Flashes when the MEMORY (PVM-2044QM only), RESET, APERTURE, BRIGHT, CHROMA, PHASE, CONTRAST, or VOL button is pressed.

12 MEMORY button and RESET button
After setting the APERTURE, BRIGHT, CHROMA, and PHASE controls to the desired levels, press the MEMORY button with a pencil or a similar object so that these levels can be memorized and the response indicator lights up.
When the RESET button is pressed, the above control settings, and not the factory set levels, will be restored. To change the memorized levels, repeat the above operations.

To release the memorized levels and restore the factory set levels, while pressing the MEMORY button, press the RESET button.

13 APERTURE buttons
Press + for more sharpness or - for less.

14 BRIGHT (brightness) buttons
Press + for more brightness or - for less.

15 CHROMA buttons

Press + for more color intensity or - for less.

16 PHASE buttons

This button is effective only for the NTSC3.58 and NTSC4.43 color system.
Press GRN (green) to make the skin tones greenish or PUR (purple) to make them purplish.

Note

The APERTURE, CHROMA, PHASE control settings have no effect on the pictures of analog RGB or digital RGB signals.

17 CONTRAST buttons

Press + to make the contrast, color intensity and brightness stronger or - to make them weaker.

18 VOL (volume) buttons

Press + for more volume or - for less.

19 POWER switch and indicator

Depress to turn the monitor on.
The indicator will light up in green.
Press the switch again to turn the monitor off.

20 INPUT select buttons

Press to select the program to be monitored.
A: for a signal fed through the LINE A connectors.
B: for a signal fed through the LINE B connectors.
Y/CVTR: for a signal fed through the Y/C-INPUT connectors or VTR connector.
When both the Y/C-INPUT and VTR connectors are connected to video equipment, the input signal fed through the Y/C-INPUT connector has priority over the one fed through the VTR connector.
RGB: for a signal fed through the ANALOG RGB connectors or DIGITAL RGB connector.

21 ANALOG/DIGITAL (EXT SYNC) button

This button functions as ANALOG/DIGITAL selector and EXT SYNC selector.

As ANALOG/DIGITAL selector

Depress to monitor a signal fed through the ANALOG RGB connectors.
Release to monitor a signal fed through the DIGITAL RGB connector.

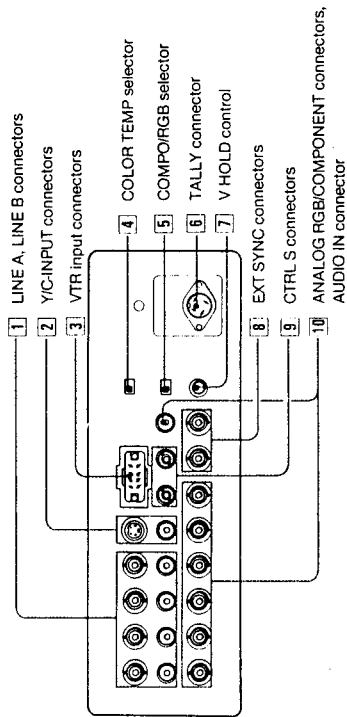
For EXT SYNC selector

Depress to operate the monitor on an external sync signal fed through the EXT SYNC connector on the rear panel (EXT).
Release to operate the monitor on the sync signal from the displayed composite video signal (INT).

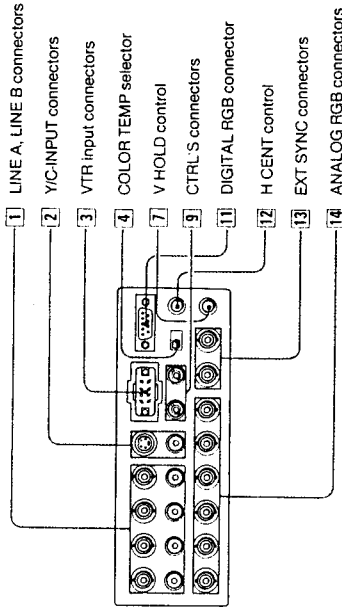
22 RESET button

Press to return the PHASE, CHROMA, BRIGHT and APERTURE control settings to the factory set levels.

Rear panel PVM-2044QM



Rear panel PVM-2042QM



Picture Adjustment Buttons

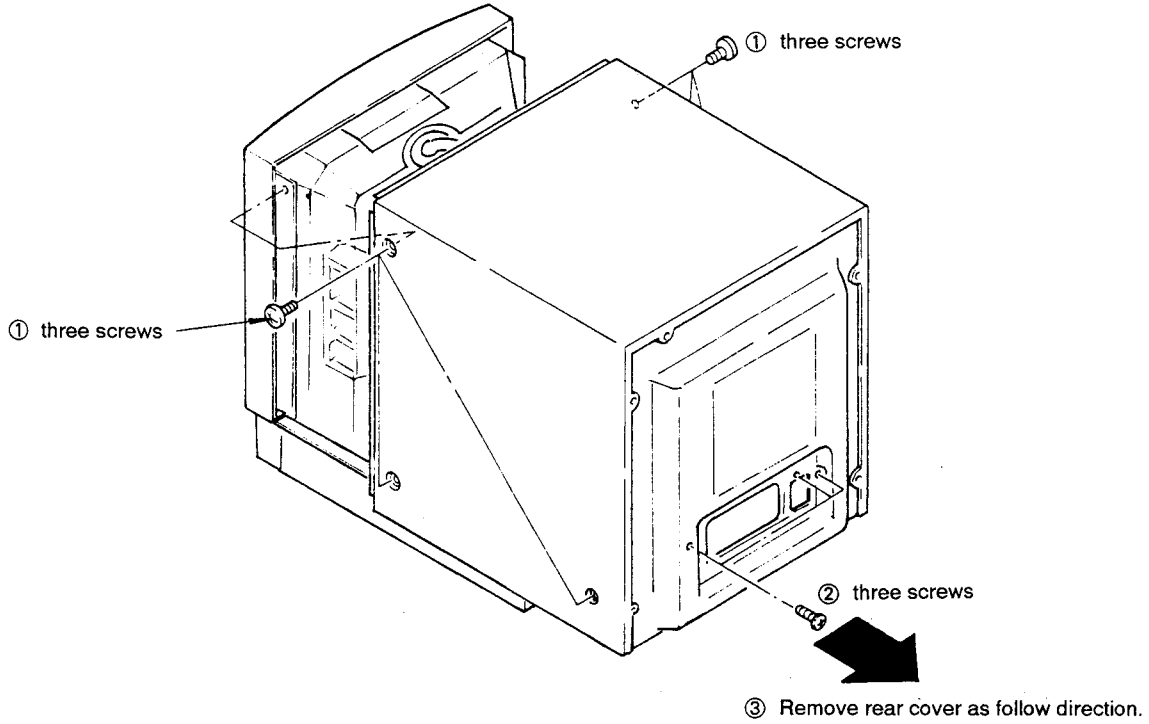
The picture adjustment buttons of each monitor operate in the following input mode (indicated as "Yes").

Model	Input mode	APERTURE	BRIGHT	CHROMA	PHASE	CONTRAST	VOL
PVM-2044QM	• LINE A, LINE B	Yes	Yes	Yes	Yes (NTSC only)	Yes	Yes
	• Y/C • VTR Analog RGB Component	No	Yes	No	No	Yes	Yes
PVM-2042QM	• LINE A, LINE B	Yes	Yes	Yes	Yes (NTSC only)	Yes	Yes
	• Y/C • VTR • Digital RGB • Analog RGB	No	Yes	No	No	Yes	No

- 1. LINE A, LINE B connectors**
Two groups (A and B) of line input connectors for the composite video and audio signals and their loop-through output connectors.
To monitor the input signal fed through these connectors, press the A or B input select button on the front panel.
- VIDEO IN (BNC type):** Connect to the video output of a video equipment, such as a VTR or a color video camera. For a loop-through connection, connect to the video output of another monitor.
- VIDEO OUT (BNC type):** Loop-through output of the VIDEO IN connector. Connect to the video input for a VTR or another monitor.
- When the cable is connected to this connector, the 75-ohms termination of the input is automatically released, and the signal input to the VIDEO IN connector is output from this connector.
- AUDIO IN (phono jack):** Connect to the audio output of a VTR or to a microphone via a suitable microphone amplifier. For a loop-through connection, connect to the audio output of another monitor.
- AUDIO OUT (phono jack):** Loop-through output of the AUDIO IN jack. Connect to the audio input of a VTR or another monitor.
- 2. Y/C-INPUT connectors**
VIDEO (4-pin DIN): Connect to the Y/C separate output of a video camera or a VTR.
AUDIO (phono jack): Connect to the audio output of a video camera or a VTR.
To monitor the input signal fed through these connectors, press the Y/CAMTR button on the front panel.
- 3. VTR input connectors (8-pin)**
Line input for the video and audio signals. When connected to the 8-pin TV connector of a VTR, the video and audio playback signal from the VTR can be input through a single cable.
To monitor the input signal fed through this connector, press the Y/CAMTR button on the front panel, with the Y/C-INPUT connectors connected to no outputs.
When both VTR and Y/C-INPUT connectors are connected to video equipment, the input signal fed through the Y/C-INPUT connectors has priority over the one fed through the VTR connectors.
- 4. COLOR TEMP (temperature) selector**
Select the color temperature position, 3300K or 6500K.
- 5. COMPO (component)/RGB selector**
Set to COMPO to monitor component signal fed through the R/Y, G/Y, B/B-Y connectors.
Set to RGB to monitor analog R/G/B signal fed through the R/R-Y, G/Y, B/B-Y connectors.
- 6. TALLY connector (4-pin)**
Connect the tally signal of a video camera.
- 7. V HOLD (vertical hold) control**
Turn to stabilize the picture if it rolls vertically.
- 8. EXT SYNC (external sync) connectors (BNC type)**
IN: Connect to the output of a sync generator.
To use the sync signal fed through this connector, depress the EXT SYNC button.
OUT: Loop-through output of the SYNC IN connector. Connect to the SYNC input of a video camera. When the cable is connected to this connector, the 75-ohms termination of the input is released, and the signal input to the IN connector is output from this connector.
- 9. CTRL S (control S) connectors (mini-jack)**
For remote control of the APERTURE, BRIGHT, CHROMA, PHASE, CONTRAST and VOL control buttons.
IN: Connect to the "control S" output of other equipment.
OUT: Connect to the CTRL S IN connector of another monitor by using a connecting cord (mini-plug).
- 10. ANALOG RGB/COMPONENT connectors (BNC type)**
R/R-Y IN, G/Y IN, B/B-Y IN:
To monitor the analog R/G/B signal, connect to the analog R/G/B signal outputs of a video camera having no sync signal.
Set the COMPO/RGB selector on the rear panel to RGB and press the ANALOG RGB/COMPONENT button on the front panel. When the EXT SYNC button is released, the monitor operates on the sync signal from the G channel.
To monitor the component signal, connect to the R-Y/B-Y component signal outputs of a BETACAM video camera. Set the COMPO/RGB selector on the rear panel to COMPO and press the ANALOG RGB/COMPONENT button on the front panel. When the EXT SYNC button is released, the monitor operates on the sync signal from the Y channel.
- R/R-Y OUT, G/Y OUT, B/B-Y OUT:**
Loop-through outputs of the R/R-Y IN, G/Y IN, B/B-Y IN connectors.
For R/G/B signal, connect to the analog R/G/B signal inputs of a video camera.
For component signal, connect to the R-Y/B-Y component signal inputs of a BETACAM video camera. When the cables are connected to these connectors, the 75-ohms termination of the input is automatically released, and the signal inputs to the R/R-Y IN, G/Y IN, B/B-Y IN connectors are output from these connectors.
- AUDIO IN (phono jack):** Connect to the audio output of video equipment when the analog R/G/B or component signal is input.
- 11. DIGITAL RGB connector (9-pin)**
Connect with a microcomputer having a digital (TTL level) RGB video output.
To monitor the input signal fed through this connector, press the RGB button and keep the ANALOG/DIGITAL (EXT SYNC) button released.
- Note**
For connection, be sure to use an optional SMF-520 connecting cable.
- 12. H CENT (horizontal centering) control**
When a digital R/G/B signal is monitored, turn to center the picture if it is decentered.
- 13. EXT SYNC (external sync) connectors (BNC type)**
IN: Connect to the output of a sync generator.
To monitor the sync signal fed through this connector, depress the ANALOG/DIGITAL (EXT SYNC) button.
OUT: Loop-through output of the SYNC IN connector. Connect to the SYNC input of a video camera.
When the cable is connected to this connector, the 75-ohms termination of the input is released, and the signal input to the IN connector is output from this connector.
- 14. ANALOG RGB connectors (BNC type)**
R/G/B IN: Connect to the analog R/G/B outputs of a video camera.
To monitor a signal fed through these connectors, press the RGB button and depress the ANALOG/DIGITAL (EXT SYNC) button.
R/G/B OUT: Loop-through outputs of the R/G/B IN connectors. Connect to the analog R/G/B inputs of a video camera.
When the cable is connected to these connectors, the 75-ohms termination of the input is released, and the signal input to the R/G/B IN connectors is output from these connectors.

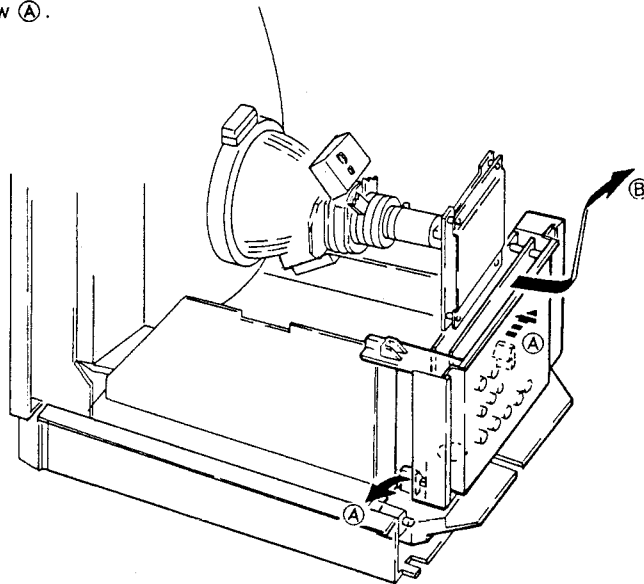
SECTION 2 DISASSEMBLY

2-1. REAR COVER REMOVAL

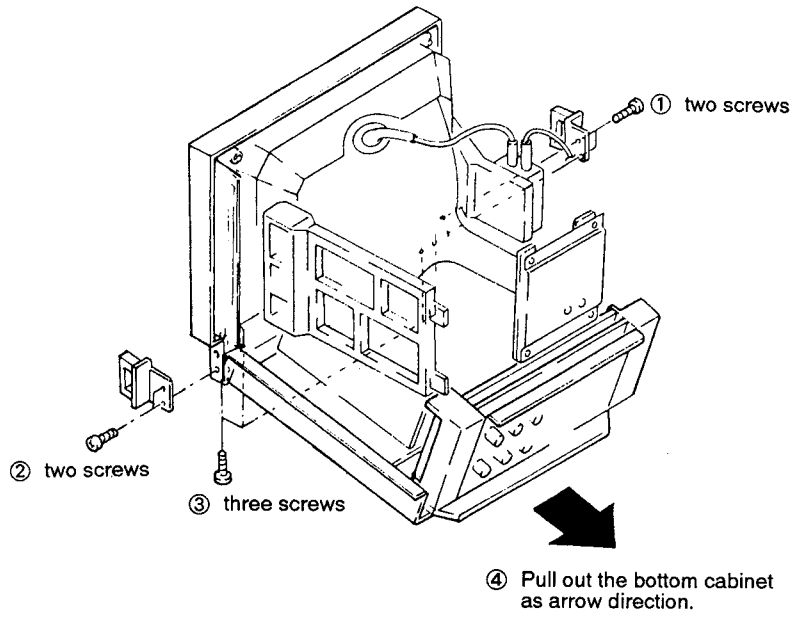


2-2. TERMINAL BRACKET REMOVAL

- ① Remove the terminal bracket as arrow ② while extend two claws as arrow ①.

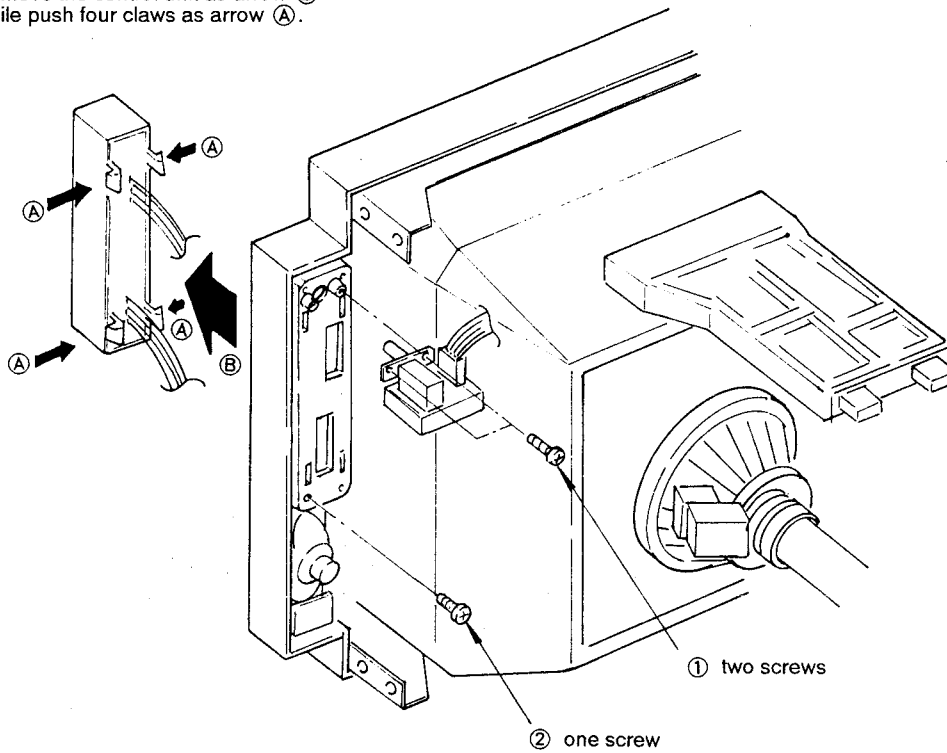


2-3. CABINET ASSY, BOTTOM REMOVAL



2-4. CONTROL UNIT REMOVAL

③ Remove the control unit as arrow (B) while push four claws as arrow (A).



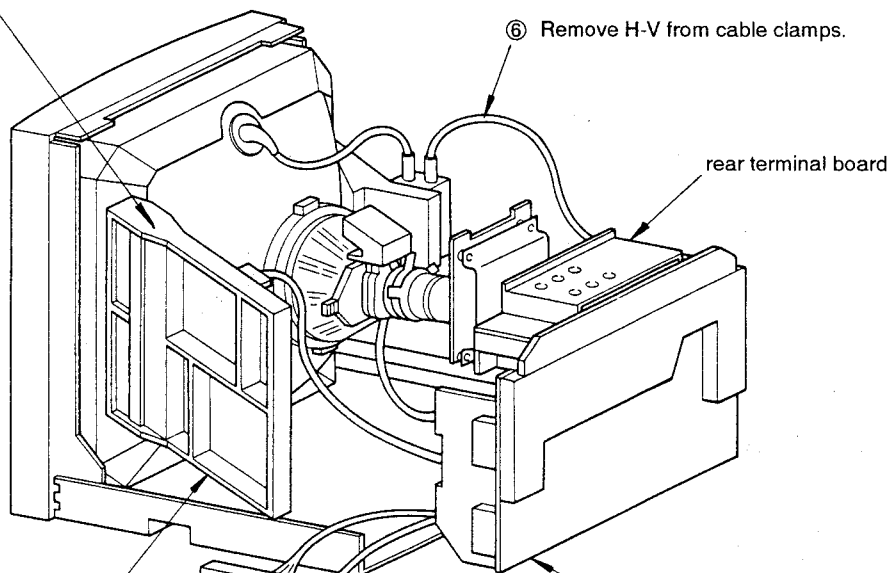
2-5. SERVICE POSITION

Remove the connectors and chassis in order as follows.

- ① A-4, A-5 (from control panel)
- ② A-2 (from speaker)
- ③ C536 (A board) next earth lead wire (from picture tube)
- ④ T-3 (from H board)
- ⑤ P-4 (from H board)

⑦ Remove F-5 to A-1 connector from F board bracket.

⑥ Remove H-V from cable clamps.

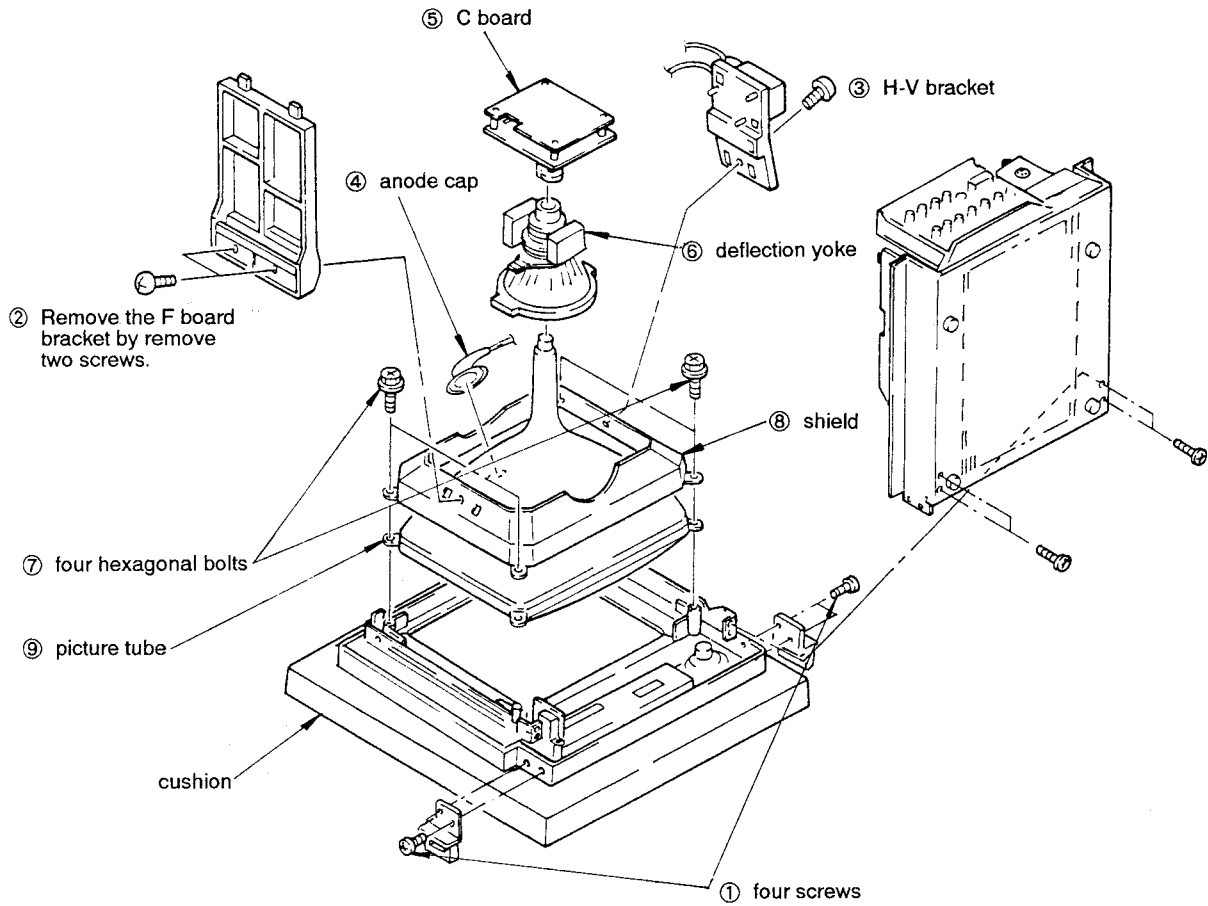


Hang on the F board to picture tube shielded as drawing (two screws).

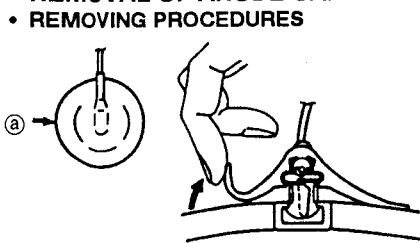
control unit

⑧ Pull out the main chassis.

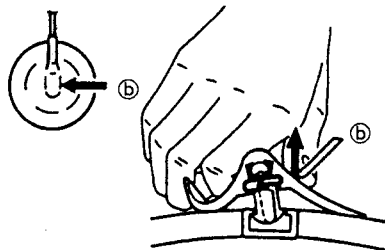
2-6. PICTURE TUBE REMOVAL



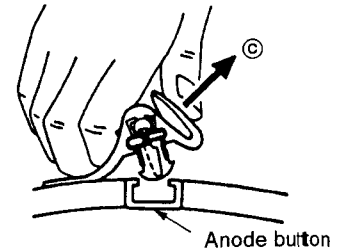
• REMOVAL OF ANODE-CAP
 • REMOVING PROCEDURES



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



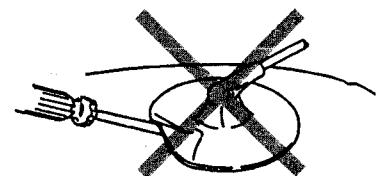
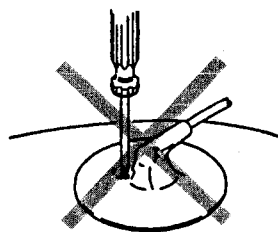
② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ②.



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 ③.

• HOW TO HANDLE AN ANODE-CAP

- ① Don't hurt the surface of anode-caps with sharp shaped material!
- ② 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.
- ③ Don't turn the foot of rubber over hardly!
 The shatter-hook terminal will stick out or hurt the rubber.



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
4. Luminance Level Meter
5. Oscilloscope

Preparation

- 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.

3-1. BEAM LANDING

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

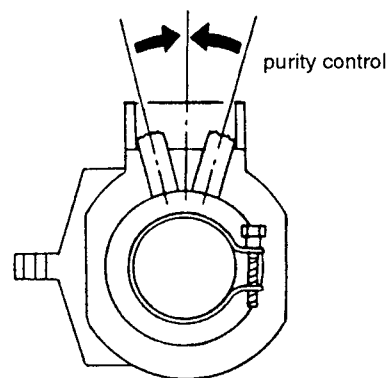


Fig. 3-1

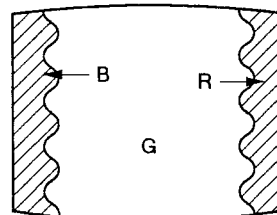


Fig. 3-2

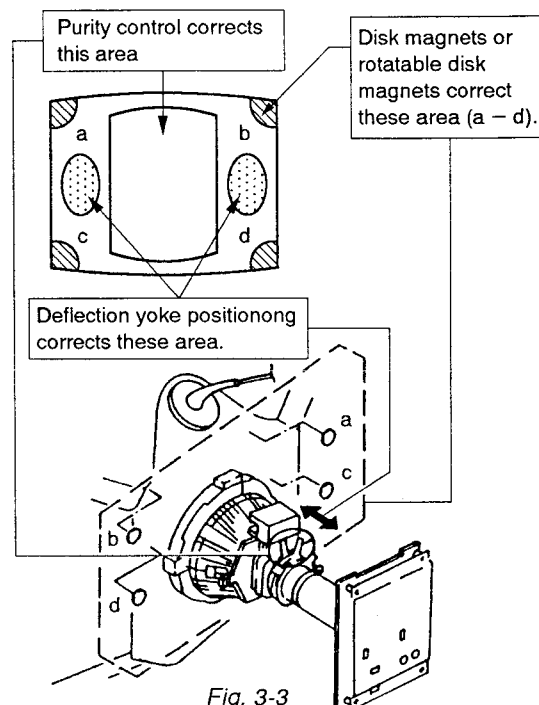
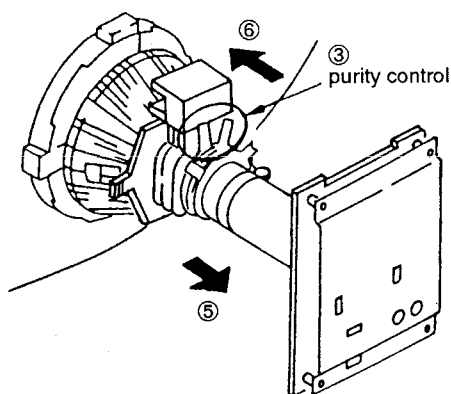


Fig. 3-3

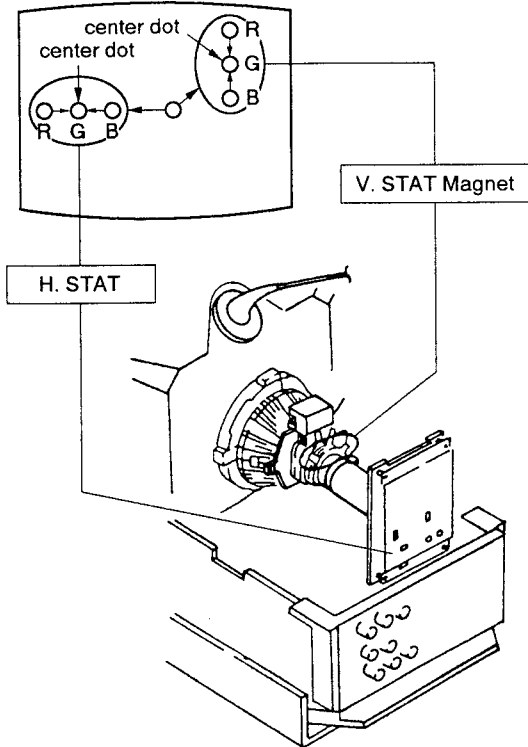
3-2. CONVERGENCE

(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.

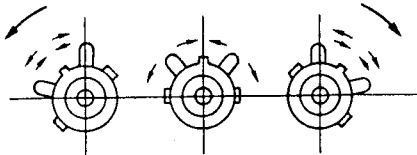
(Static Convergence Adjustment)

1. Receive a dot signal and Set CONTRAST to normal.
2. Adjust H. STAT VR to coincide red, green and blue dots on the center of screen. (Horizontal movement)
3. Adjust V. STAT magnet to coincide red, green and blue dots on the center of screen. (Vertical movement)

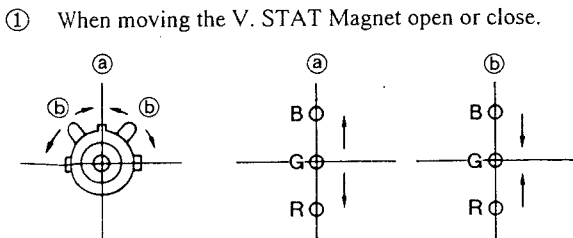


- ※ If the red, green and blue dots do not coincide on the center of screen with H. STAT VR, perform adjustment using V. STAT at the same time while tracking.

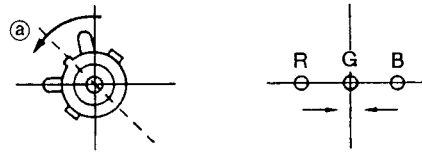
(Tilt the V. STAT magnet and adjust static convergence to open or close the V. STAT magnet.)



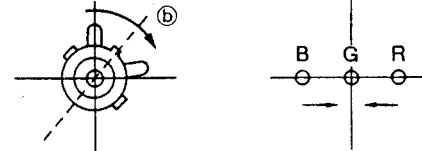
- When the V. STAT magnet is moved in the direction of arrow (a) and (b), red, green and blue dots move as shown below.



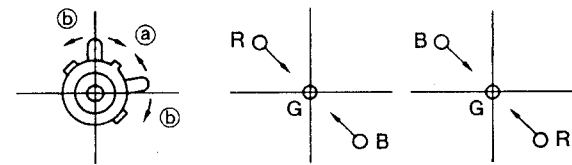
- ② When moving the V. STAT magnet counterclockwise.



- ③ When moving the V. STAT magnet clockwise.



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

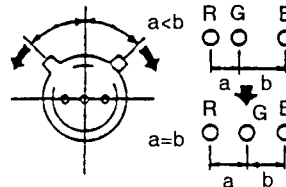


- ※ If the red and green dots do not coincide with blue dot, adjustment with BMC (6-poles) magnet.

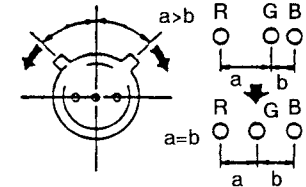
• HMC and VMC correction for BMC (6-Poles) magnet.

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

HMC Correction (A)

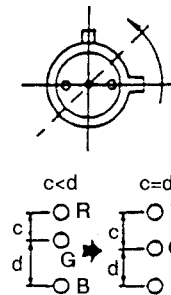


HMC Correction (B)

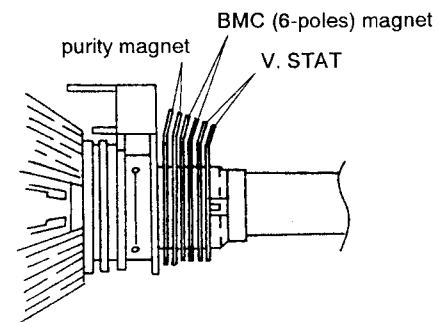
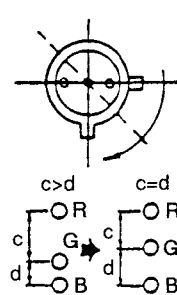


2. VMC (Vertical Misconvergence) correction and motion of the Electron Beam with the BMC (6-poles) magnet.

VMC Correction (A)



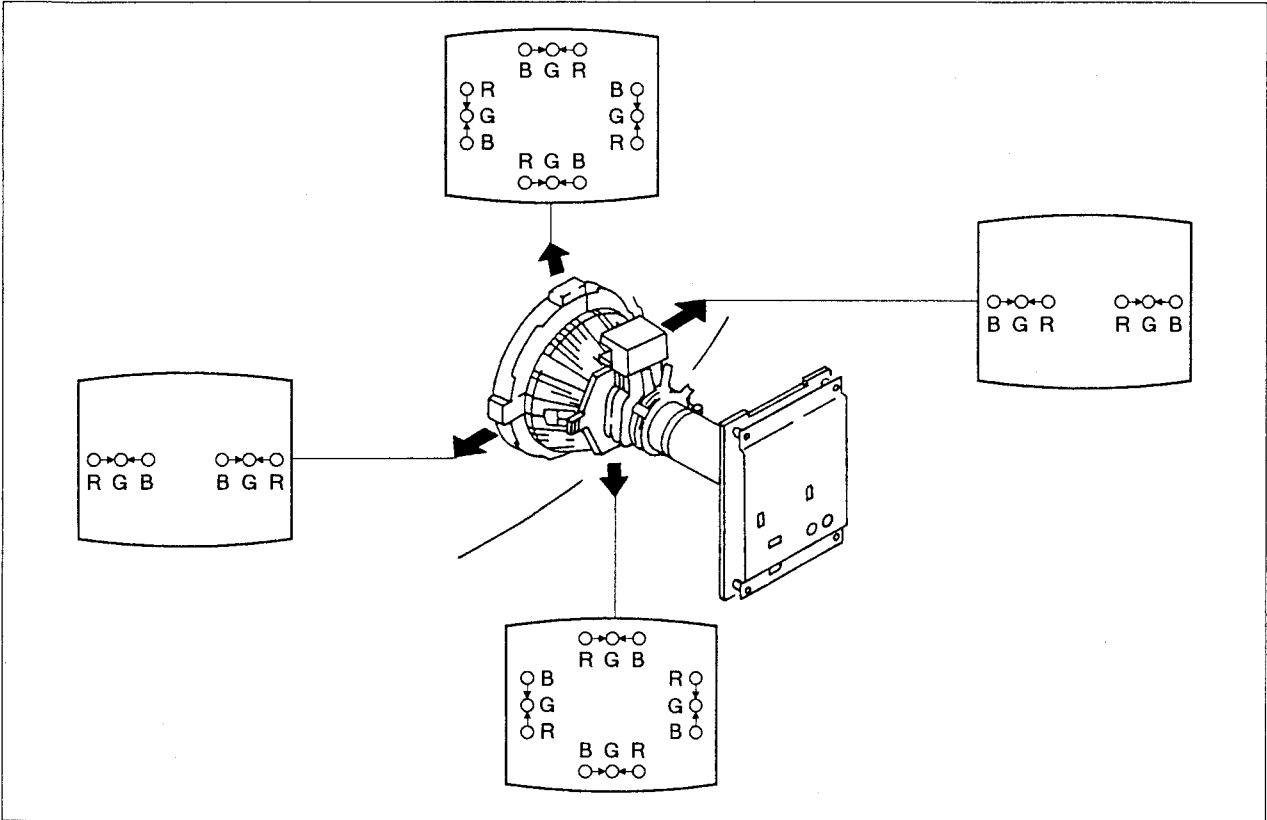
VMC Correction (B)



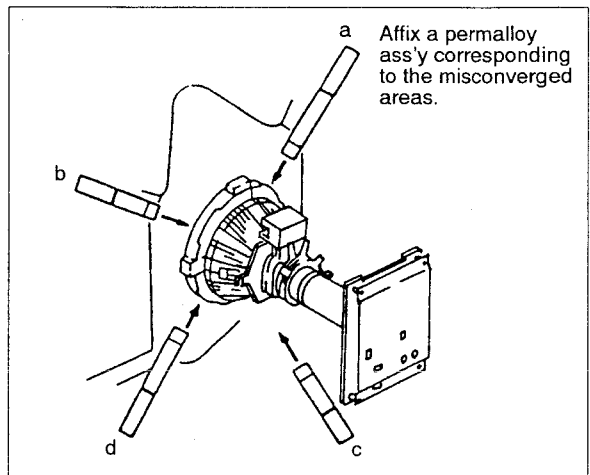
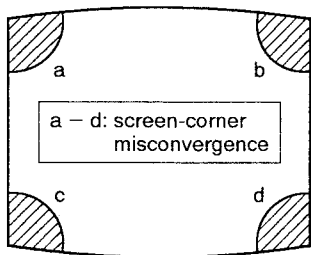
(2) Horizontal and Vertical Dynamic Convergence
Adjustment the environs of the Screen

(Dynamic Convergence Adjustment)

1. Loosen deflection yoke screw.
2. Remove deflection yoke spacers.
3. Move the deflection yoke for best convergence.
4. Tighten the deflection yoke screw.
5. Install the deflection yoke spacers.



(3) Screen-corner Convergence



3-3. FOCUS

1. Receive the broadcast.
2. CONTRAST Normal
3. Adjust RV707 so that the focus on the center of screen becomes to the best.

SECTION 4

SAFETY RELATED ADJUSTMENTS

B+ MAX CONFIRMATION (☒ R690)

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

☑ on F board : IC601, IC602, IC651, D654, D655, C658, C659, R634, R652, R653, R654, R655, R656, R657, R665, R671, R690, RV601

1. Supply 130±5^o V AC to with variable auto-transformer.
2. Receive a dot signal.
3. • CONTRASTMinimum
• BRIGHTNESSMinimum
4. Connect a digital multimeter to TP91.
5. Confirm the voltage of TP91 is less than 118.0V DC when rotate RV601 on F board fully clockwise.
6. If step 5 is not satisfied, readjustment should be performed by altering the resistance value of R690 (☒).

CONFIRMATION WHEN REPLACING H.V.R (High Voltage Resistor)

The following adjustment should be confirm the output voltage when replacing HVR.

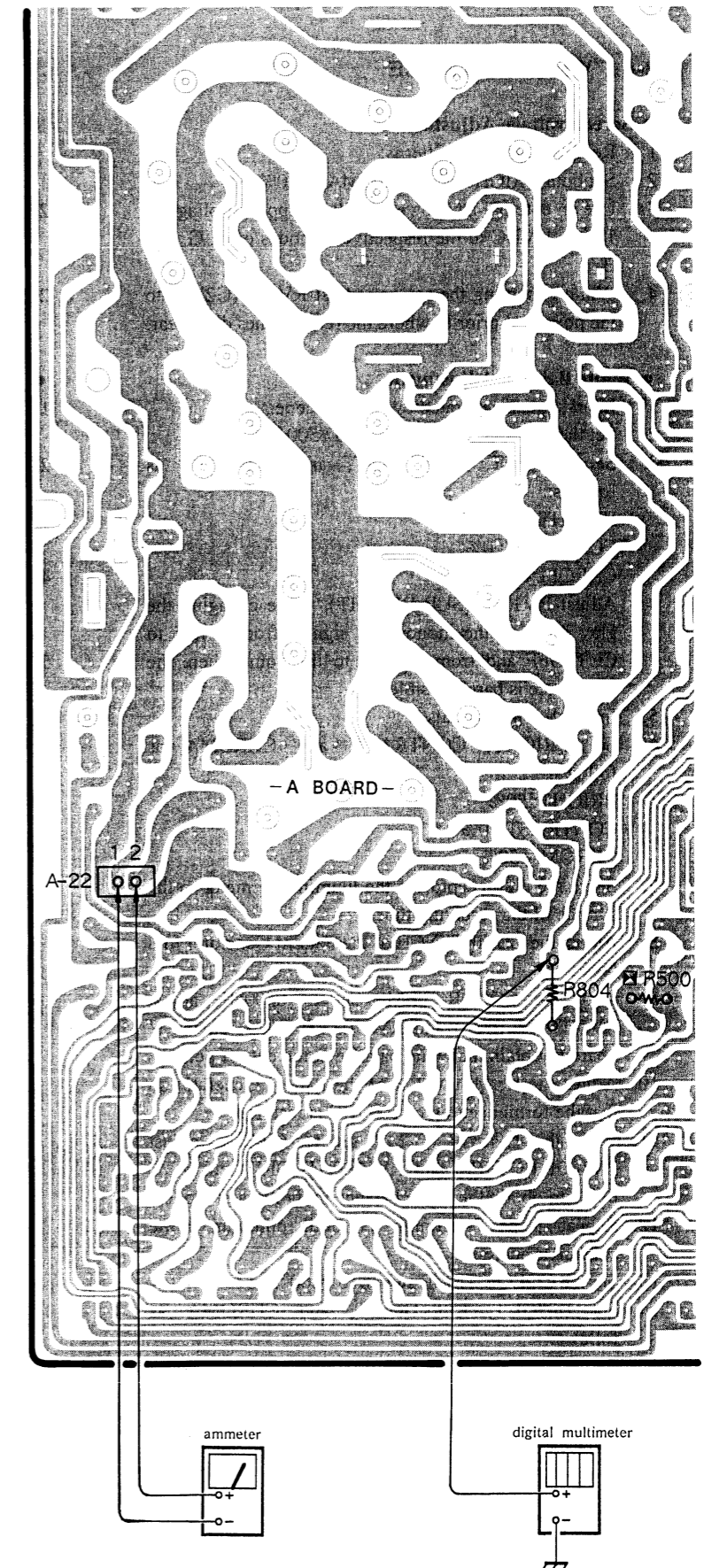
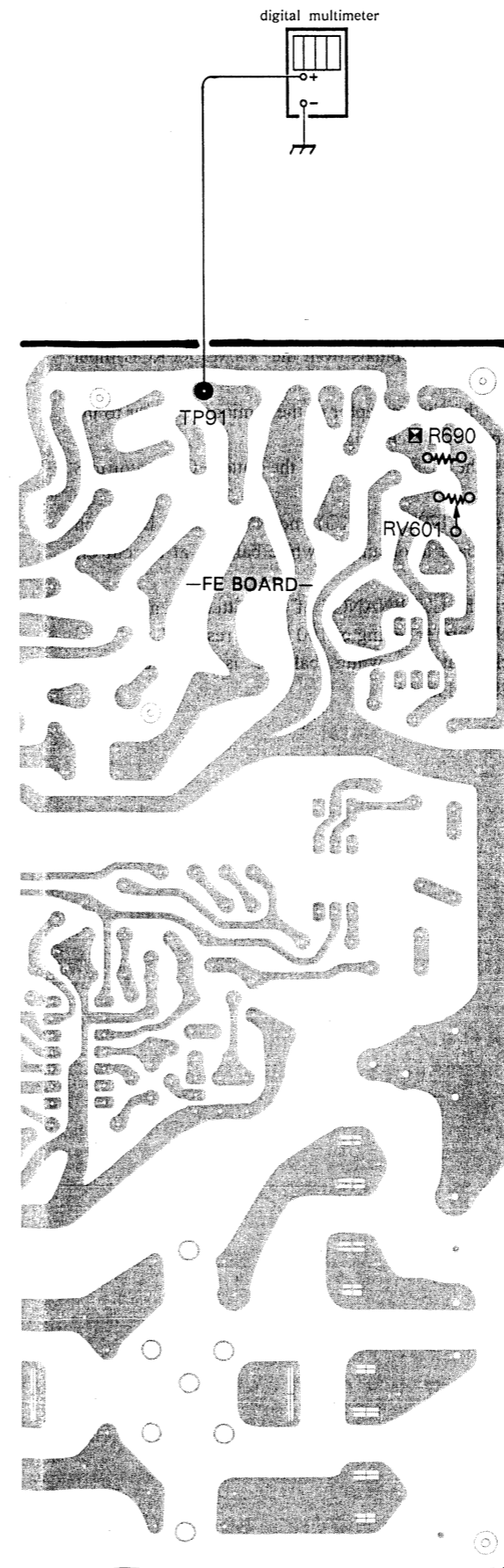
1. Receive an entire white signal.
2. • CONTRASTMaximum
• BRIGHTNESSMaximum
3. Connect a digital multimeter to the A-20 connector side lead of R804.
4. Confirm the voltage is 16.0±3.0V DC.

☒ R500, CONFIRMATION METHOD (HOLD-DOWN CONFIRMATION) AND READJUSTMENTS

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

☑ on A board : IC501, Q503, Q504, Q505, Q506, D509, D510, C505, C520, C524, C525, C526, C527, C528, C529, C530, C531, R500, R506, R516, R517, R518, R519, R520, R521, R522, R523, R524, R525, R526, R528, R804, HVR

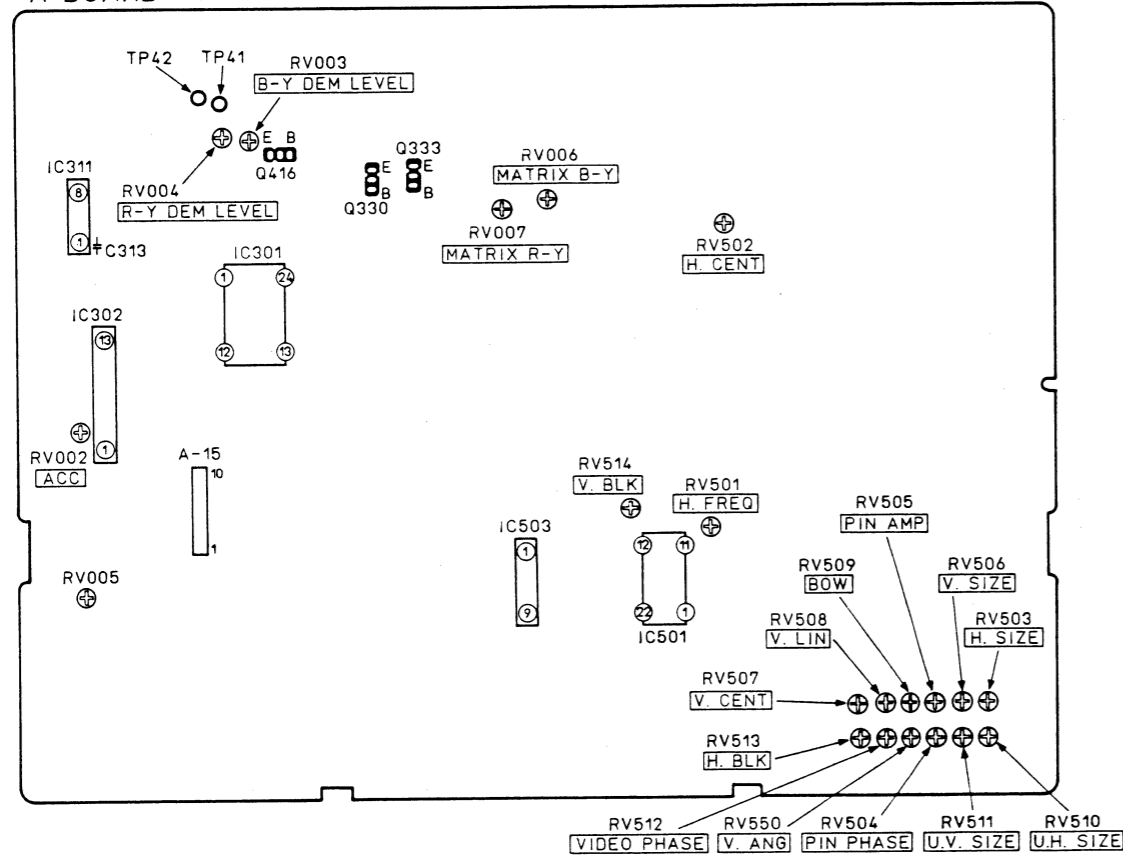
- ☑ on P board : NL901, C905
1. Receive an entire white signal.
 2. • CONTRASTMaximum
• BRIGHTNESSMaximum
 3. Connect a digital multimeter to the A-20 connector side lead of R804.
 4. Confirm the voltage is 16.0±3.0V DC.
 5. Receive a dot signal.
 6. Disconnect A-22 connector (ABL JIG) on A board and connect an ammeter.
 7. Adjust BRIGHTNESS and CONTRAST so that the current to 180±30 μ A.
 8. Apply an external DC voltage gradually to the A-20 connector side lead of R804, and when the voltage becomes 19.2±0.1V DC, confirm the HOLD-DOWN circuit operates immediately and raster disappears.
 9. Receive an entire white signal.
 10. Adjust with BRIGHTNESS and CONTRAST volumes so that the current to 1,020±40 μ A.
 11. Apply DC voltage to the A-20 connector side lead of R804, and when the voltage becomes 18.3±0.1V DC, confirm the HOLD-DOWN circuit operates immediately and raster disappears.
 12. When step 4 to 11 is not satisfied, readjustment should be performed by altering the resistance value of R500 (☒).



SECTION 5
CIRCUIT ADJUSTMENTS

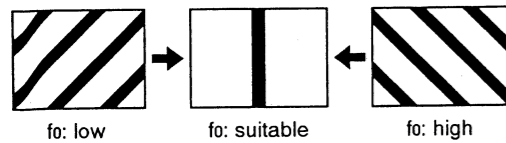
5-1. A BOARD ADJUSTMENTS

A BOARD—COMPONENT SIDE—



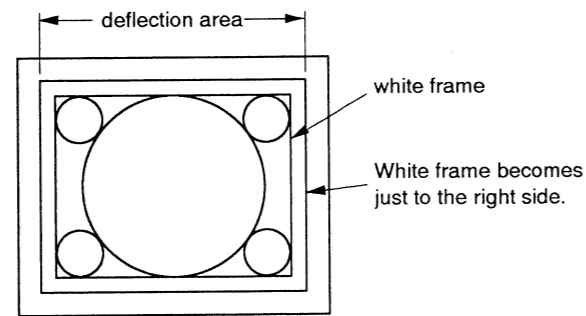
HORIZONTAL OSCILLATION FREQUENCY ADJUSTMENT (RV501)

1. Receive a monoscope signal.
2. Connect pin ① of IC501 to ground with 100 μF/16V electrolytic capacitor.
3. Adjust RV501 so that the screen streaming to stops.

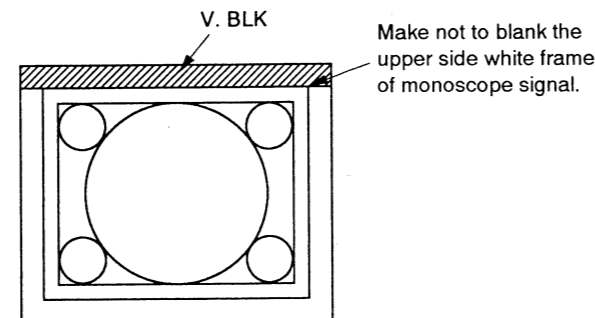


U/H, SIZE, VIDEO PHASE, H-V BLK ADJUSTMENTS (RV510, RV512, RV513, RV514)

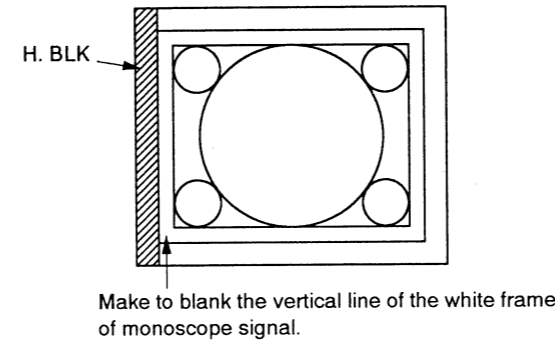
1. Receive a monoscope signal.
2. Set U/S (Under Scan) switch to Under mode.
3. • CONTRAST Minimum
• BRIGHTNESS Maximum
4. Adjust RV510 (U. H. SIZE) so that the white frame of monoscope signal becomes visible.
5. Adjust RV512 (Video Phase) so that the white frame of monoscope signal becomes to the right side just on the screen.



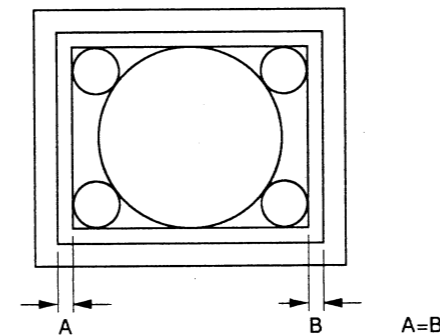
6. V. BLK Adjustment (RV514)
(1) Adjust RV514 (V. BLK) so that the upper side white frame of monoscope signal is not blanked.



7. H. BLK Adjustment (RV513)
(1) Adjust with RV513 (H. BLK) so that the vertical line of the white frame of monoscope signal is blanked as following figure.

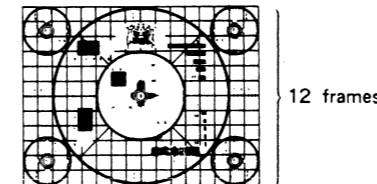


8. Screen Phase Adjustment (RV512)
(1) Adjust RV512 (Video Phase) so as to equalize the width of the white frame of monoscope signal on both sides of screen right and left.

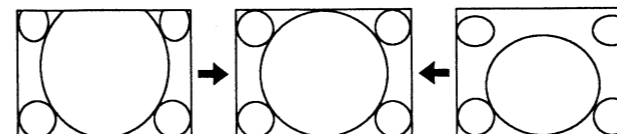


VERTICAL DEFLECTION PART ADJUSTMENTS (RV506, RV507, RV508, RV511)

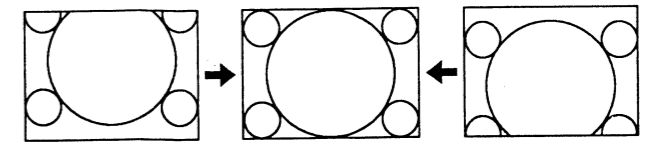
1. Receive a monoscope signal.
2. • CONTRAST 70%
• BRIGHTNESS 50%
3. Adjust RV506 (V. SIZE) so that the vertical size of monoscope signal becomes 12 frames.



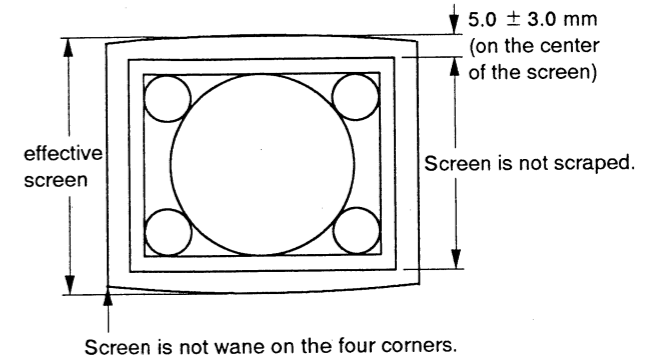
4. Adjust RV508 (V. LIN) the vertical linearity.



5. Adjust RV507 (V. CENT) the vertical position.

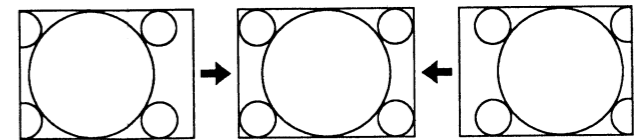


6. Adjust RV506 (V. SIZE) so that the vertical size of monoscope signal becomes 11.75 ± 0.2 frames.
7. Set U/S (Under Scan) switch to Under mode.
8. Adjust with RV511 (U.V. SIZE) as follows.

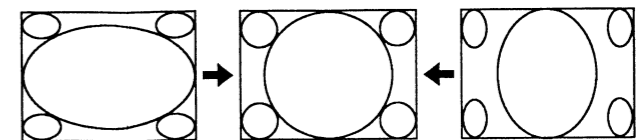


HORIZONTAL DEFLECTION PART ADJUSTMENTS (RV502, RV503, RV504, RV505, RV509, RV510, RV550)

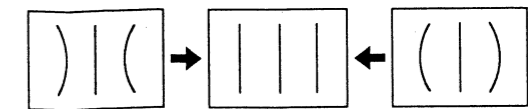
1. Receive a monoscope signal.
2. • CONTRAST 70%
• BRIGHTNESS 50%
3. H. CENT Adjustment (RV502)
(1) Adjust RV502 (H. CENT) the horizontal position.



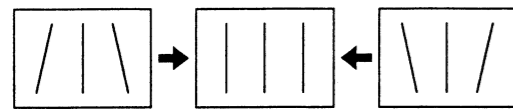
4. H. SIZE Adjustment (RV503)
(1) Adjust RV503 (H. SIZE) the horizontal size.



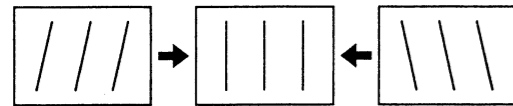
5. PIN AMP, PIN PHASE, V. ANG, BOW Adjustments (RV505, RV504, RV509, RV550)
• PIN AMP (RV505)



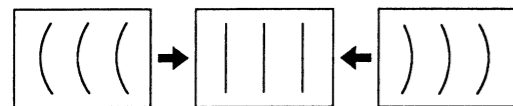
• PIN PHASE (RV504)



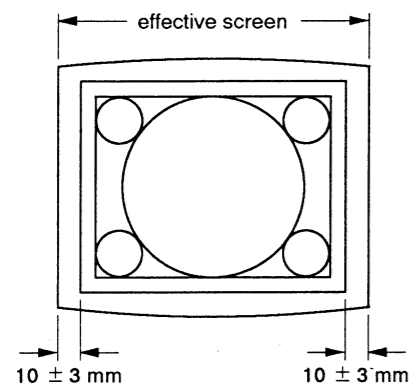
• V. ANG (RV550)



• BOW (RV509)

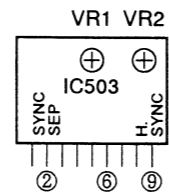
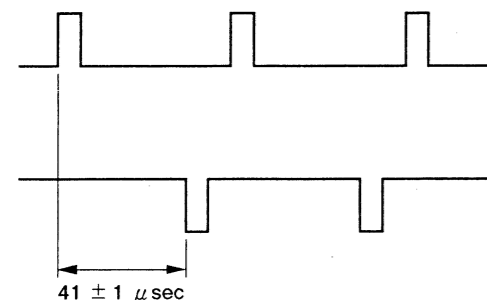


- Adjust RV503 (H. SIZE) so that the horizontal size becomes 15.75 ± 0.2 frames.
- Set U/S (Under Scan) switch to Under mode.
- Adjust RV510 (U.H. SIZE) the Under H. SIZE as follows.

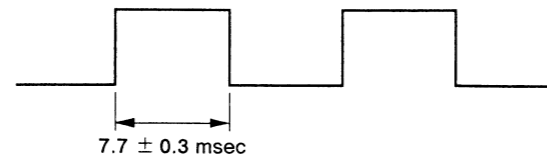


H-V DELAY ADJUSTMENT (VR1, VR2)

- Receive a monoscope signal.
- CONTRAST 70%
 - BRIGHTNESS 50%
- Set H-V DELAY switch to DELAY mode.
- H. DELAY Adjustment (VR1)
 - Connect an oscilloscope to pin ② (SYNC SEP) and pin ⑨ (H. SYNC) of IC503.
 - Adjust VR1 of IC503 to become $41 \pm 1 \mu\text{sec}$ as follows.

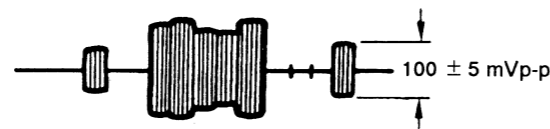


- V. DELAY Adjustment (VR2)
 - Connect an oscilloscope to pin ⑥ of IC503.
 - Adjust VR2 of IC503 to become $7.7 \pm 0.3 \text{ msec}$ as follows.



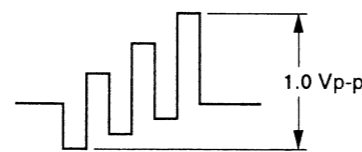
ACC ADJUSTMENT (RV002)

- Receive a color-bar signal (EIA color-bar).
- Connect an oscilloscope to pin ② of IC311.
- Adjust RV002 so that the burst signal level becomes $100 \pm 5 \text{ mVp-p}$.



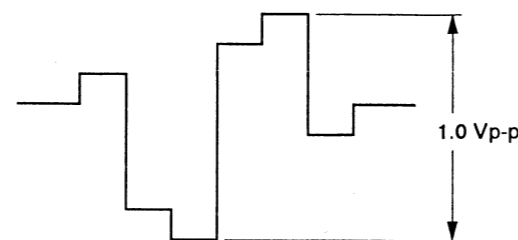
B-Y DEM LEVEL ADJUSTMENT (RV003)

- Receive a color-bar signal (75% chroma color-bar).
- Connect an oscilloscope to TP42 (B-Y).
- Adjust RV003 so that the B-Y waveform becomes 1.0 Vp-p .



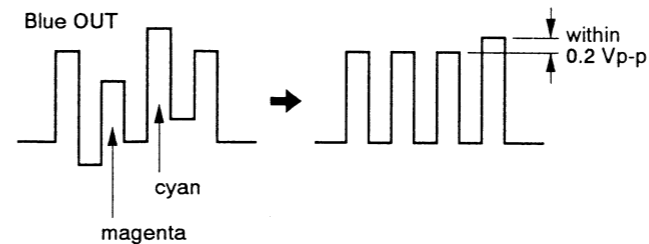
R-Y DEM LEVEL ADJUSTMENT (RV004)

- Receive a color-bar signal (75% chroma color-bar).
- Connect an oscilloscope to TP41 (R-Y).
- Adjust RV004 so that the R-Y waveform becomes 1.0 Vp-p .

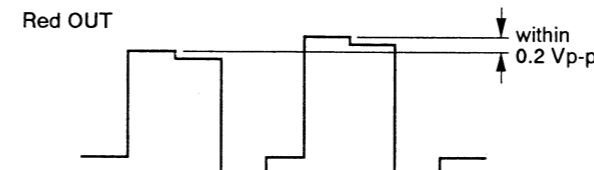


MATRIX ADJUSTMENT (RV006, RV007)

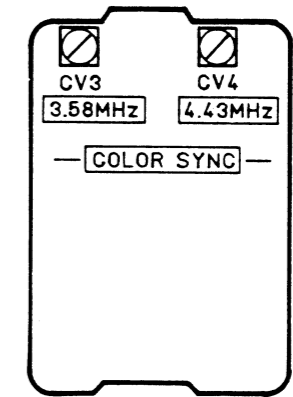
- Receive a color-bar signal.
 - (white peak: 75%)
 - (black level: 0%)
 - (chroma max.: 75%)
 - (chroma min.: 0%)
- CONTRAST 70%
- Connect an oscilloscope to pin ⑤ (B OUT) of A-15.
- Adjust RV006 (B-Y) so that the BLUE OUT wave-form becomes flat as following figure.



- When there is difference between cyan portion and magenta portion, adjust with RV006 while tracking with PHASE volume for user control.
- Connect an oscilloscope to pin ⑧ (R OUT) of A-15.
- Adjust RV007 (R-Y) so that the RED OUT wave-form becomes flat as following figure.



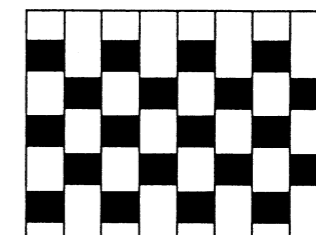
5-2. XA BOARD ADJUSTMENT



XA BOARD
— COMPONENT SIDE —

COLOR SYNCHRONIZATION (CW) ADJUSTMENT (CV3, CV4)

- Short-circuit pins ⑨ and ⑩ of IC301 on A board.
- Connect pin ③ of IC311 on A board to +12 V line via $4.7 \text{ k}\Omega$ resistor.
- Short-circuit base and emitter of Q416 on A board.
- 3.58 MHz Adjustment (CV3)
 - Receive a color-bar signal (EIA color-bar).
 - Adjust CV3 the color synchronization.

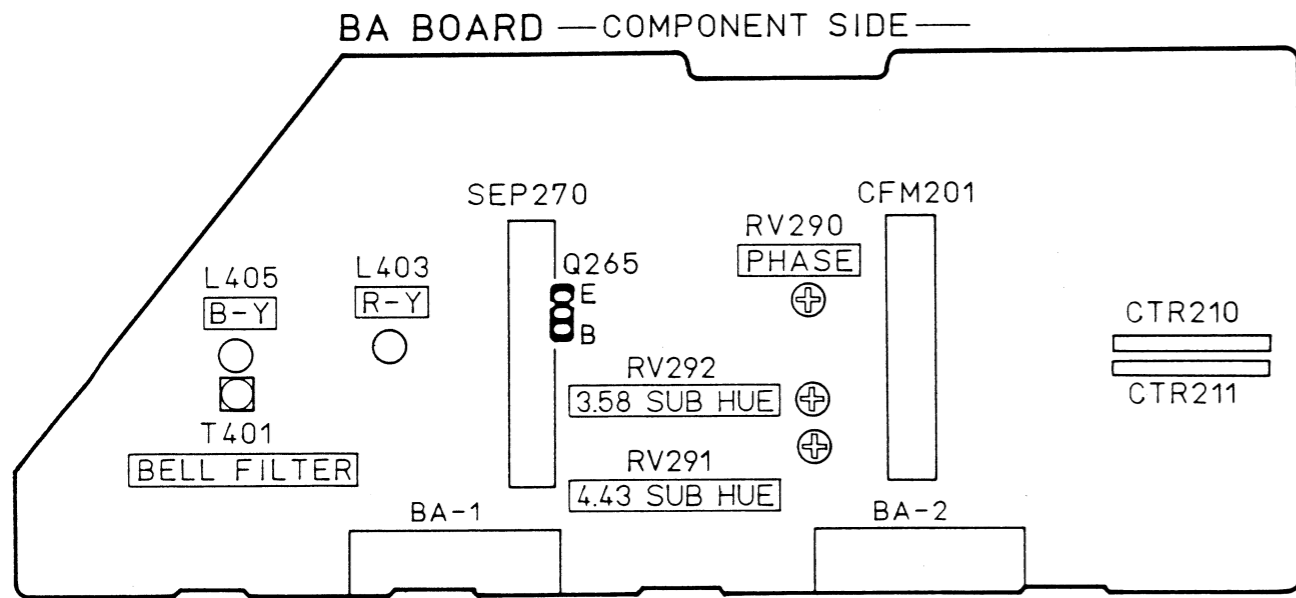


Adjust so that color stripes disappear and the hue change is stabilized extremely.

- 4.43 MHz Adjustment (CV4)
 - Receive a color-bar signal (EBU color-bar).
 - Adjust CV4 the color synchronization.
- Remove the short-circuit positions pins ⑨ and ⑩ of IC301 and base and emitter of Q416.

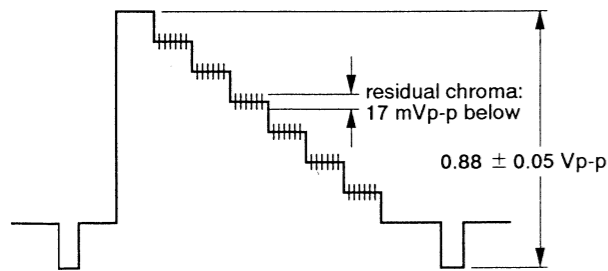
CAUTION: This adjustment (XA board adjustment) should be made earlier than all adjustments of color.

5-3. BA BOARD ADJUSTMENTS



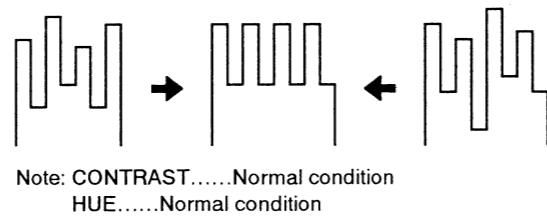
NTSC 3.58 MHz ADJUSTMENT (RV292)

1. Receive NTSC 3.58 color-bar signal.
2. Connect to pin ① (Y-OUT) of BA-2 connector.
3. Confirm the Y-OUT is 0.88 ± 0.05 Vp-p.
4. Confirm the residual chroma is 17 mVp-p below. When it is above 17 mVp-p, adjust with RV1 and T1 inside CFM201 while tracking.



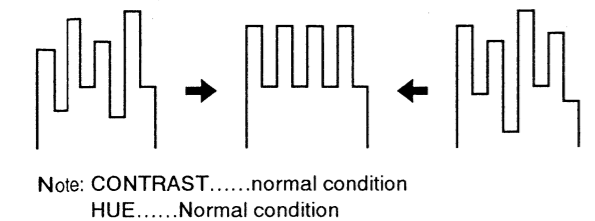
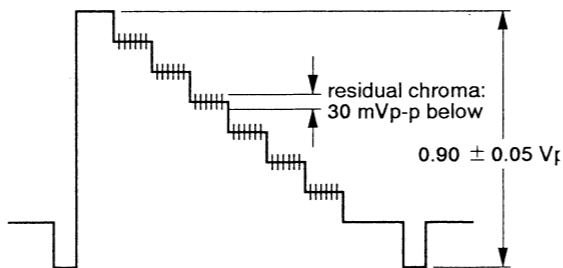
NTSC 4.43 MHz ADJUSTMENT (RV291)

1. Receive NTSC 4.43 color-bar signal.
2. Confirm the voltage on pin ④ of CTR210 is above 5.0 V DC, and on pin ⑤ of CTR210 is below 0.1 V DC.
3. Connect an oscilloscope to pin ⑤ of A-15 connector.
4. Adjust RV291 (4.43 SUB HUE) so that the BLUE OUT waveform level becomes flat as following figure.

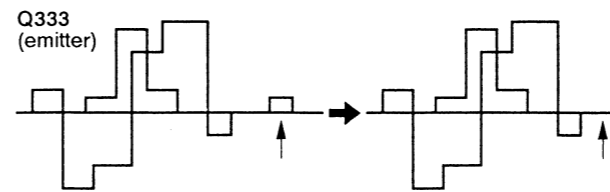


PAL ADJUSTMENTS (RV290)

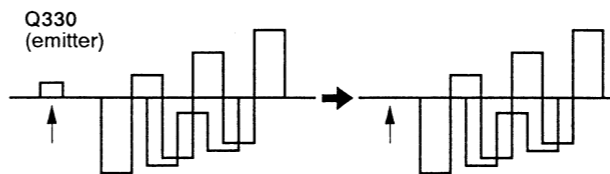
1. Receive PAL 4.43 color-bar signal.
2. Confirm the voltage on pin ④ of CTR210 is above 5.0 V DC, and on pin ⑤ of CTR210 is below 1.0 V DC.
3. Connect an oscilloscope to pin ① of BA-2 connector.
4. Confirm the Y-OUT is 0.90 ± 0.05 Vp-p and the residual chroma is below 30 mVp-p.



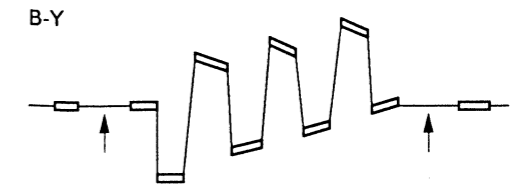
5. ANTI-PAL Adjustment (RV290)
 - (1) Receive the special PAL color-bar.
 - (2) Connect an oscilloscope to emitter of Q333 on A board, and adjust RV290 (PHASE) so that R-Y anti-PAL portion becomes flat as following figure.



- (3) Connect an oscilloscope to emitter of Q330 on A board, and adjust RV2 inside SEP270 so that B-Y anti-PAL portion becomes flat as following figure.

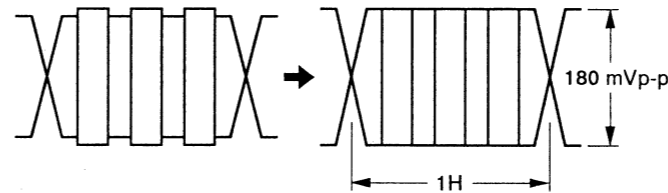


- (4) Adjust L405 (B-Y) so that the non-colored portion level becomes flat.

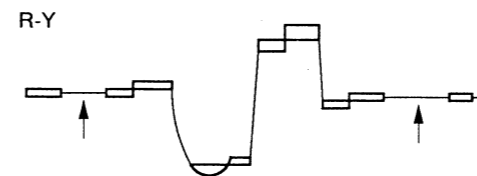


SECAM ADJUSTMENTS (T401, L403, L405)

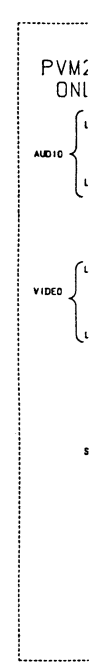
1. Receive SECAM color-bar.
2. Bell Filter Adjustment (T401)
 - (1) Connect an oscilloscope to emitter of Q265.
 - (2) Adjust T401 (Bell Filter) so that the chroma waveform becomes smooth.



3. Color Balance Adjustment (L403)
 - (1) Connect an oscilloscope to pin ⑦ (R-Y) of BA-1 connector.
 - (2) Adjust L403 (R-Y) so that the non-colored portion level becomes flat.

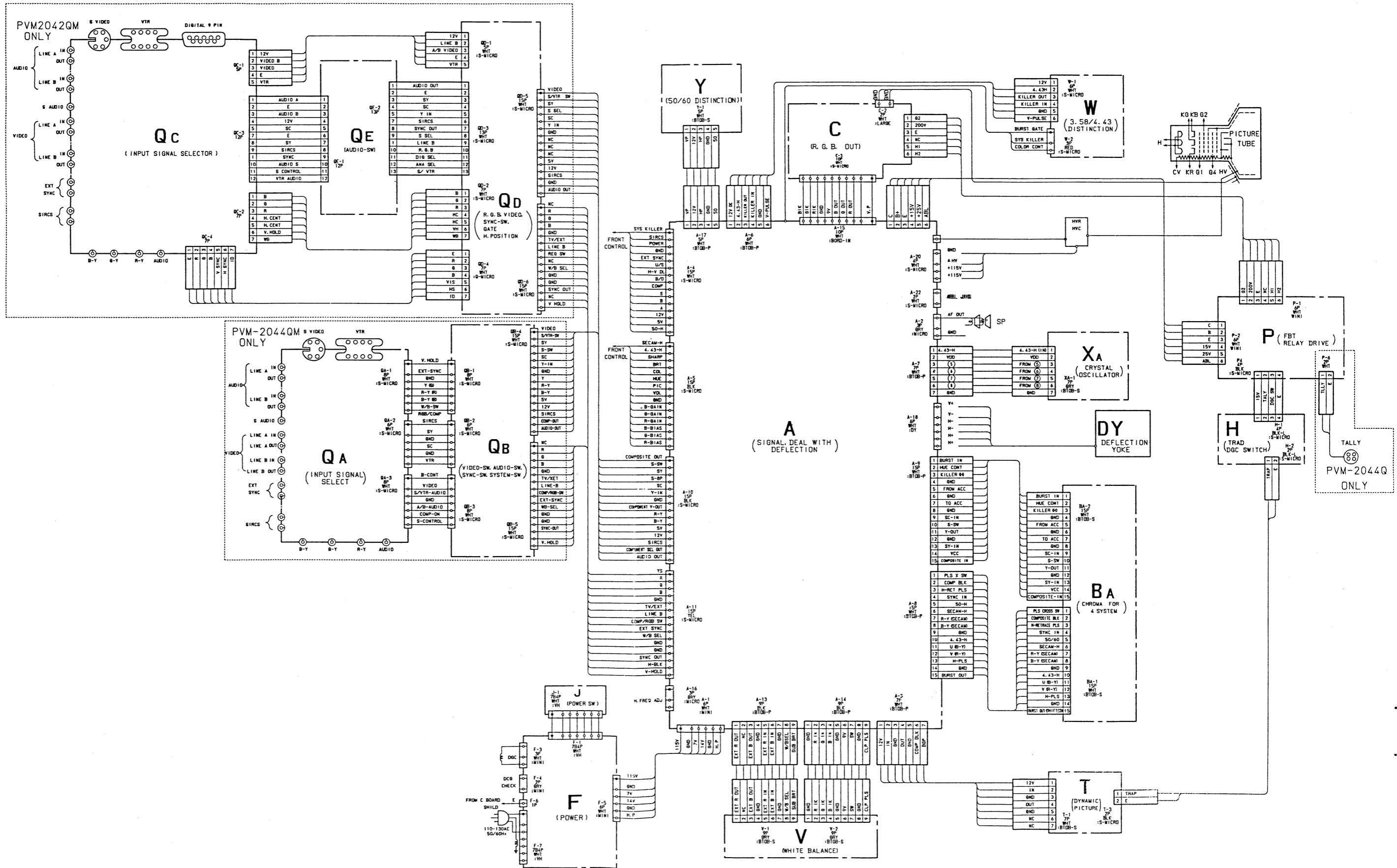


- (3) Connect an oscilloscope to pin ⑧ (B-Y) of BA-1 connector.

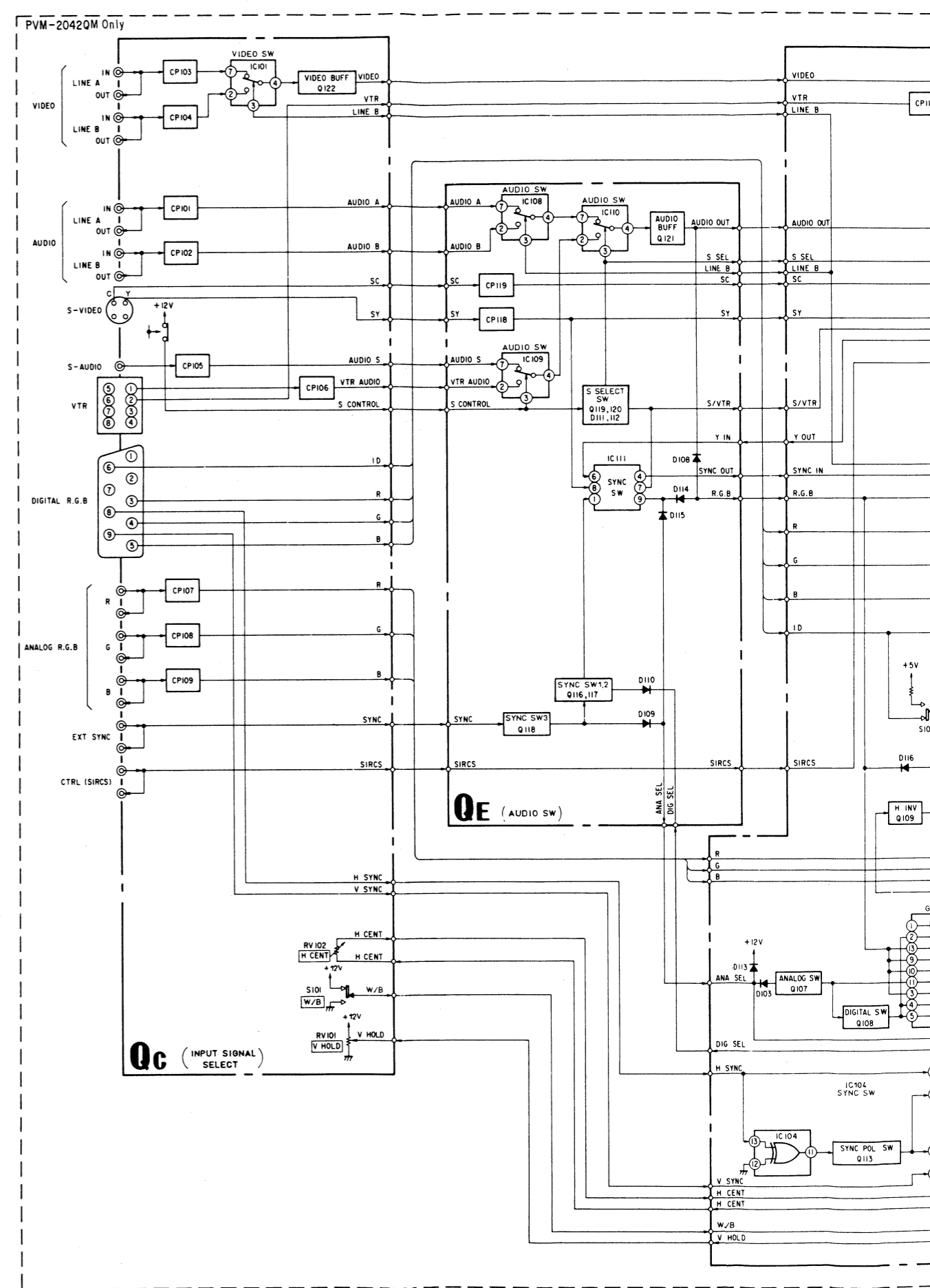
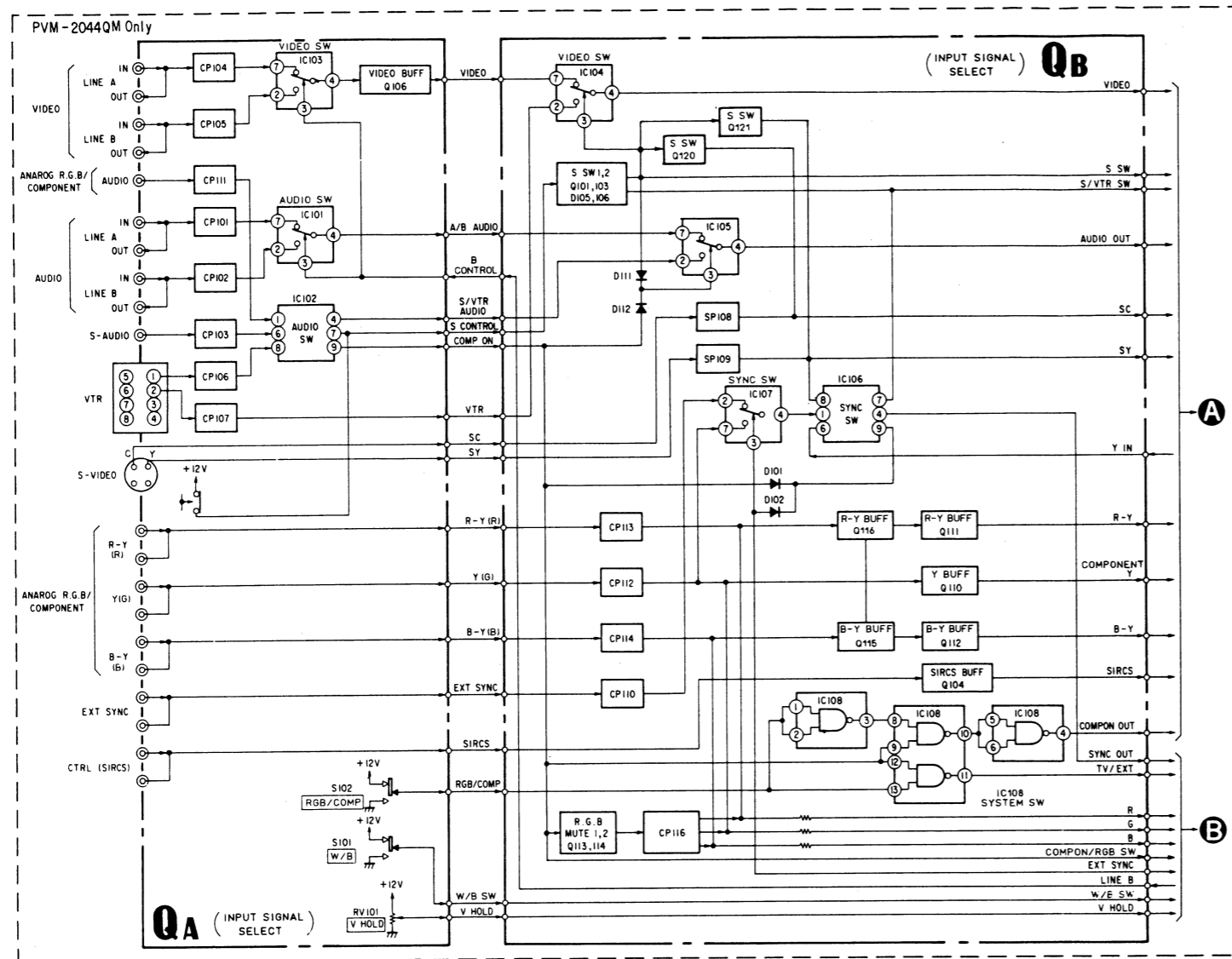


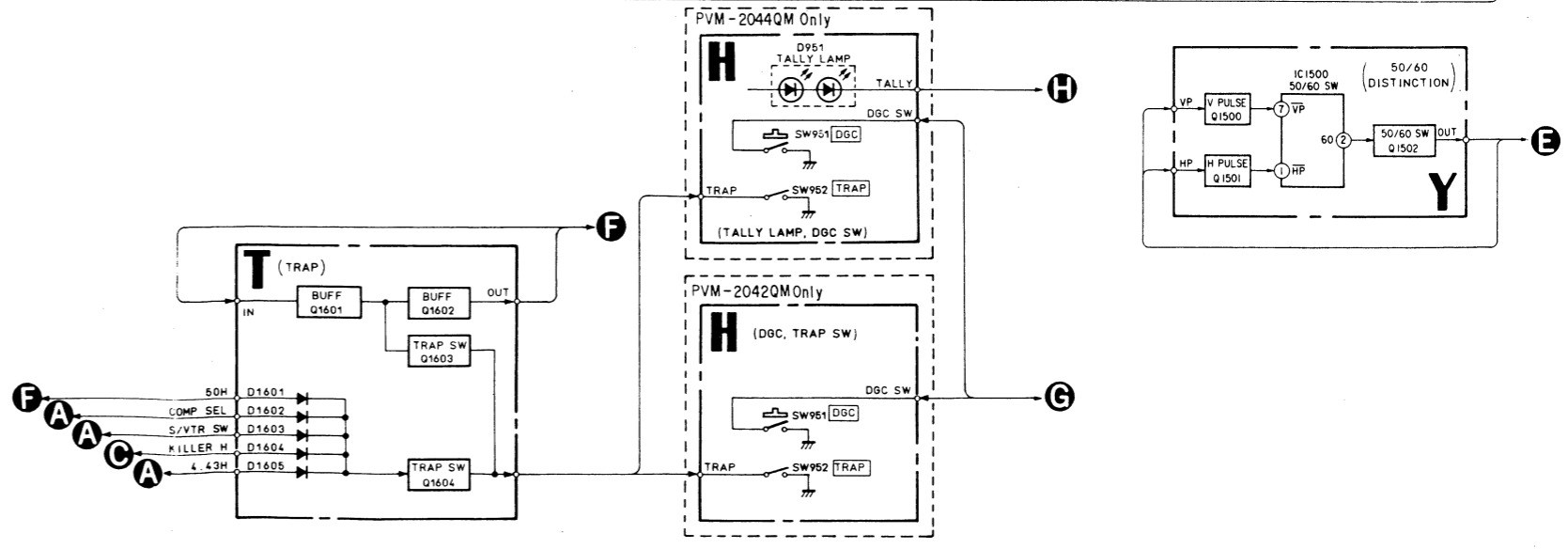
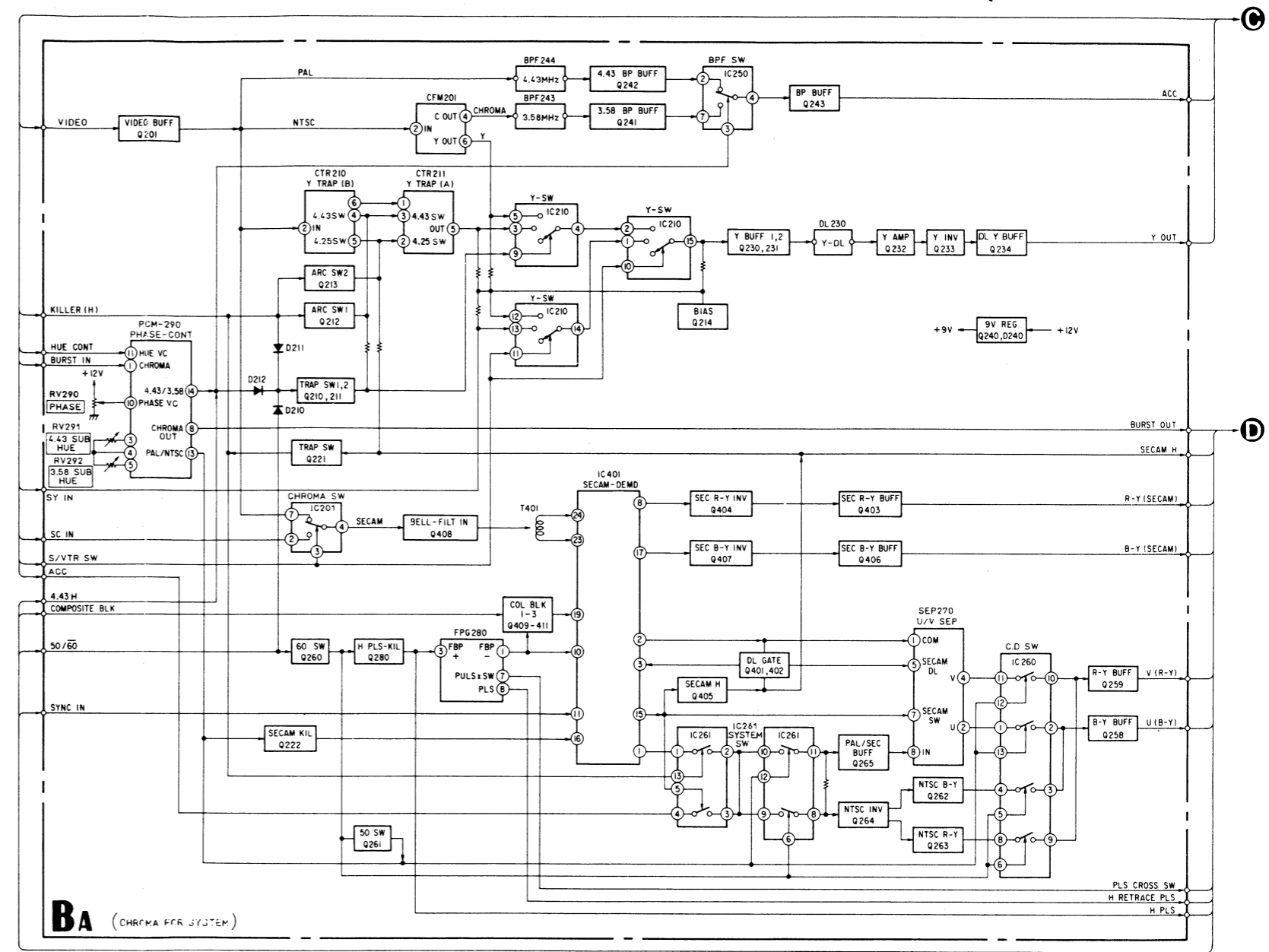
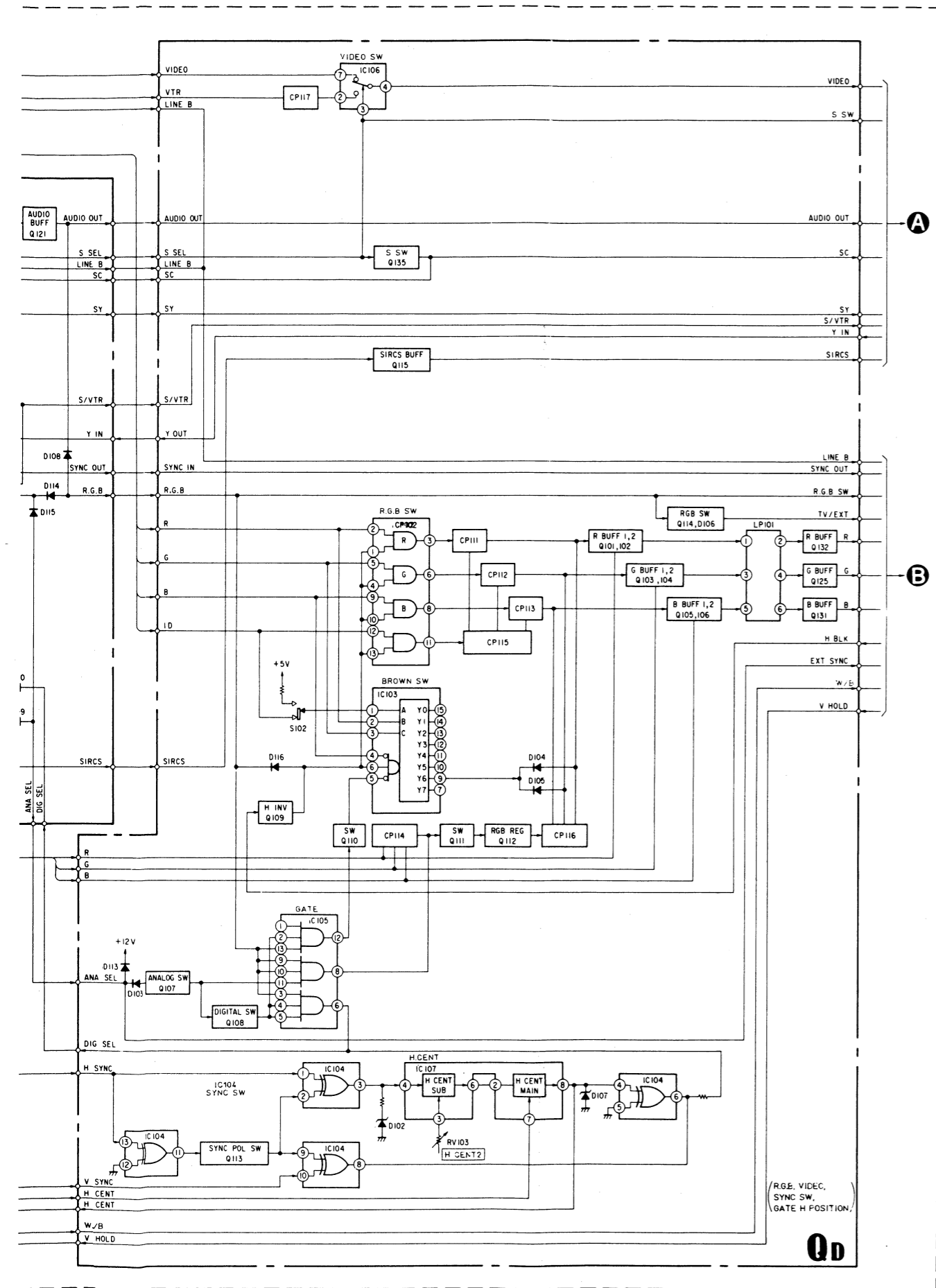
SECTION 6
DIAGRAMS

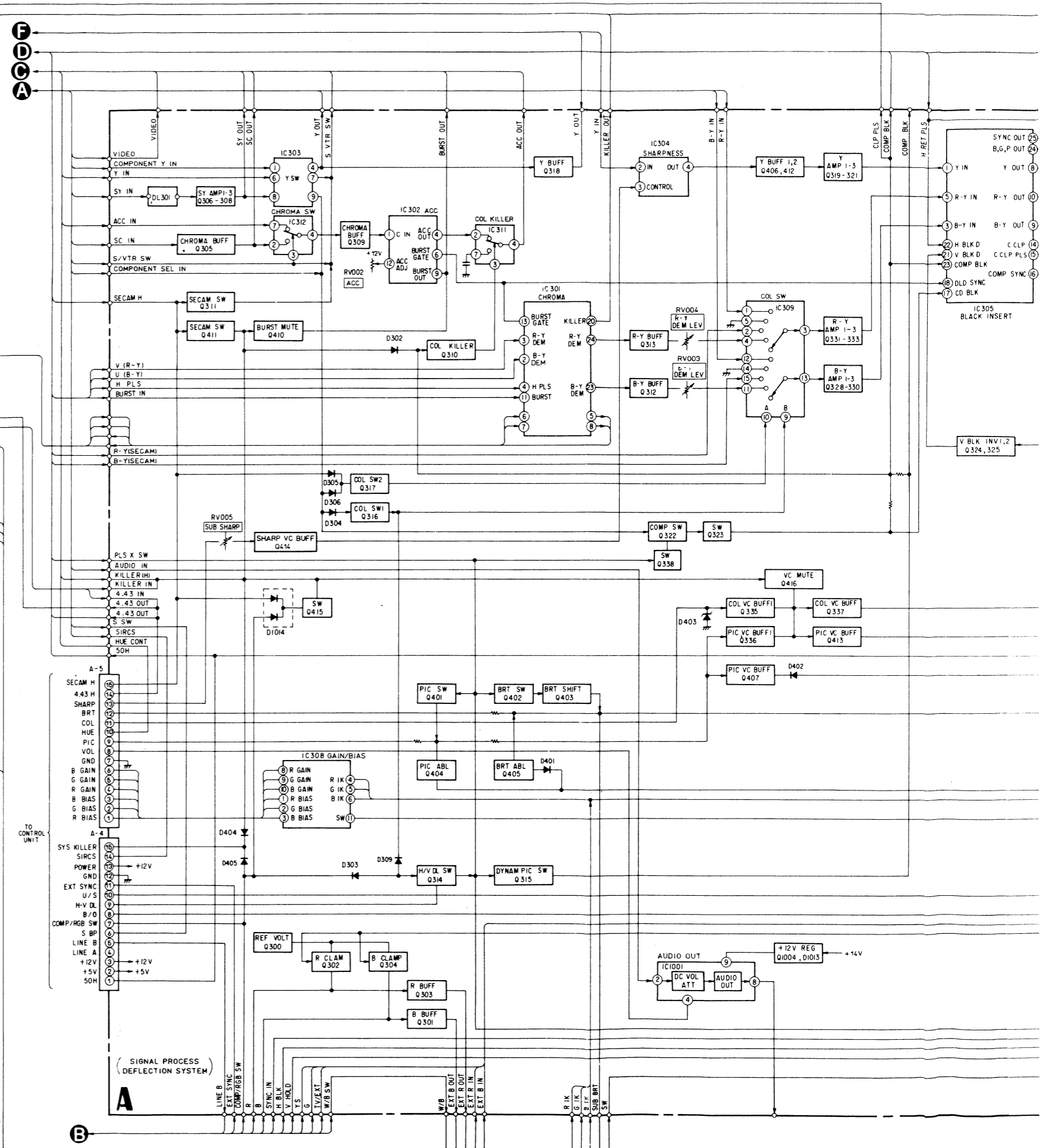
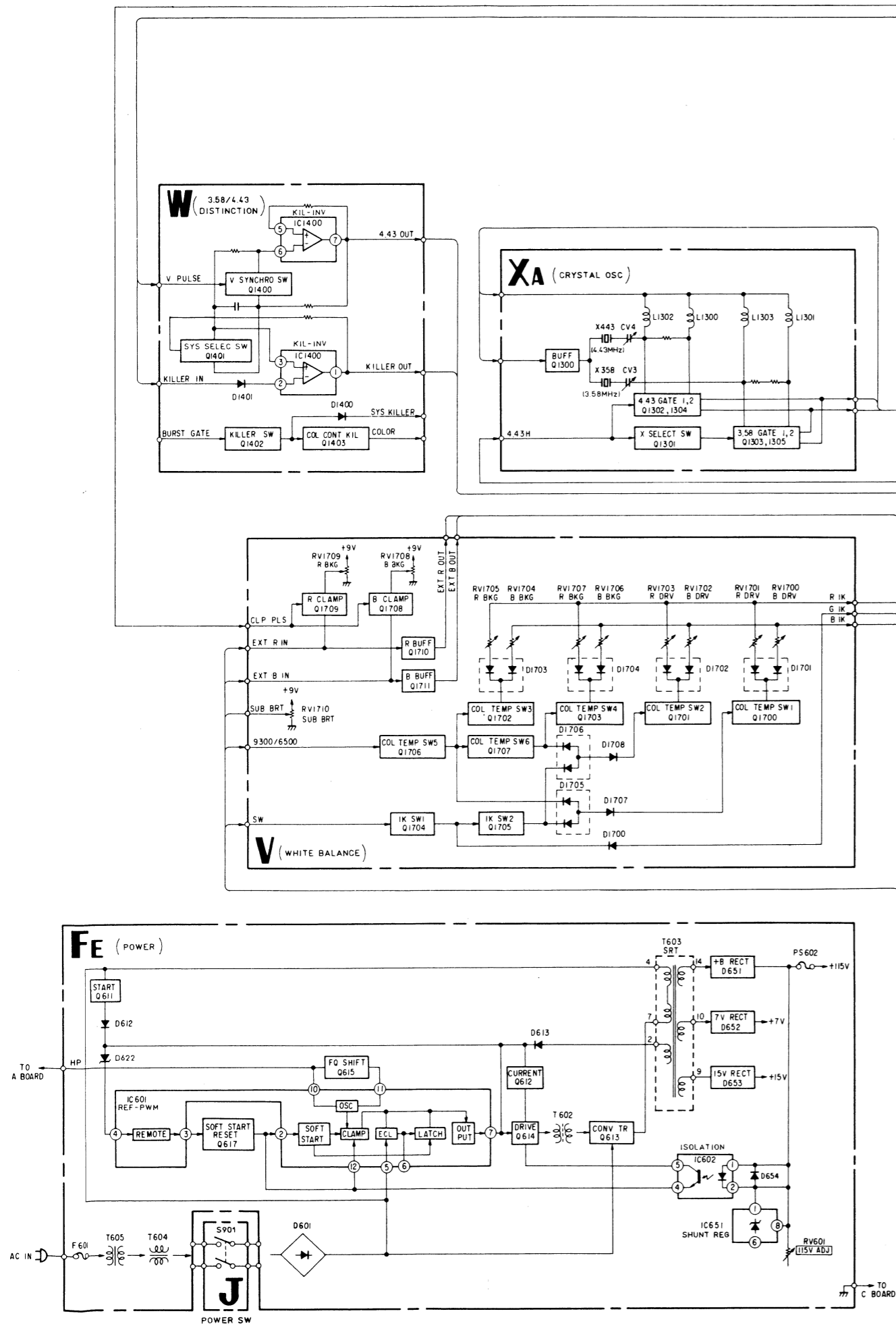
6-1. FRAME SCHEMATIC DIAGRAM

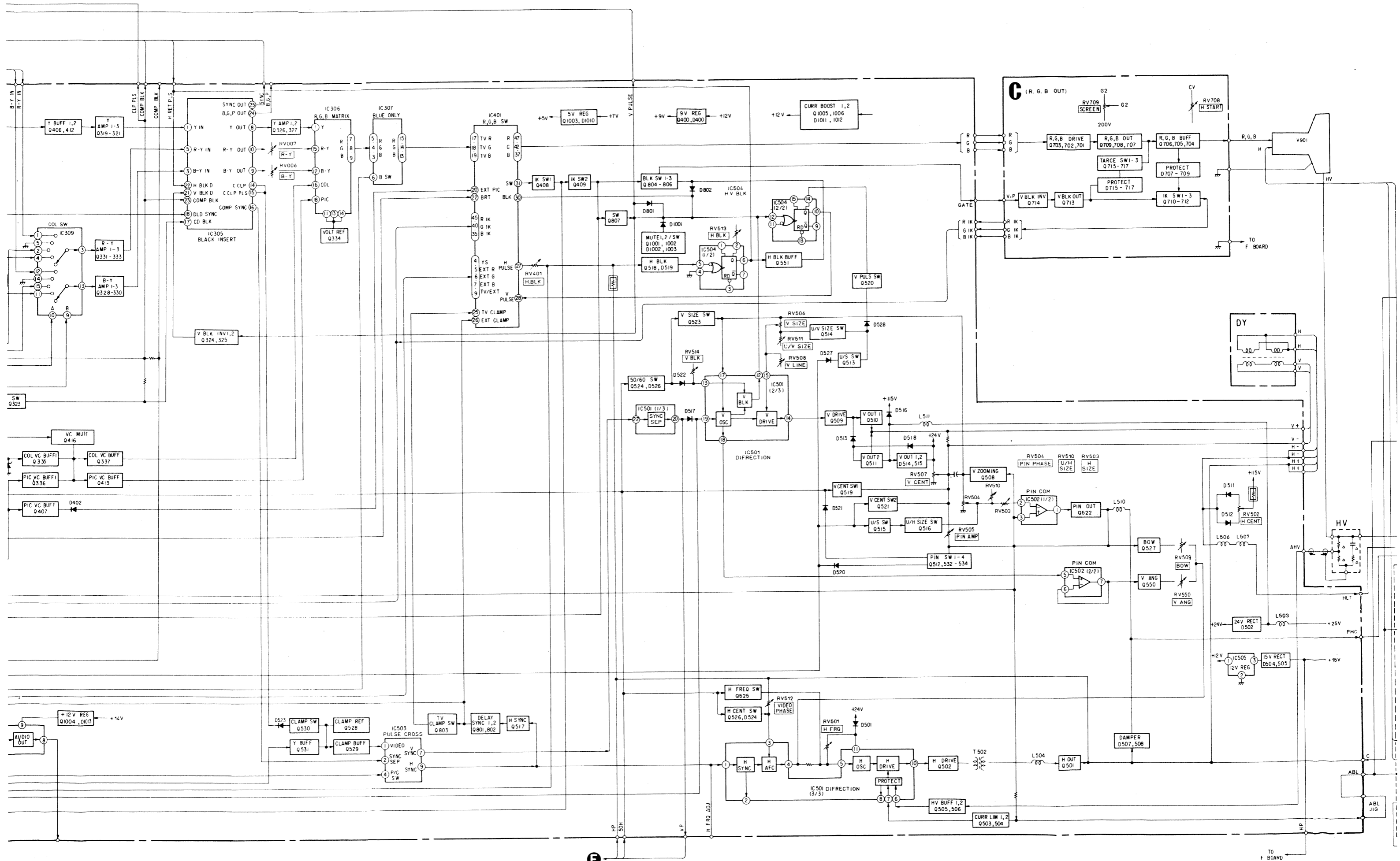


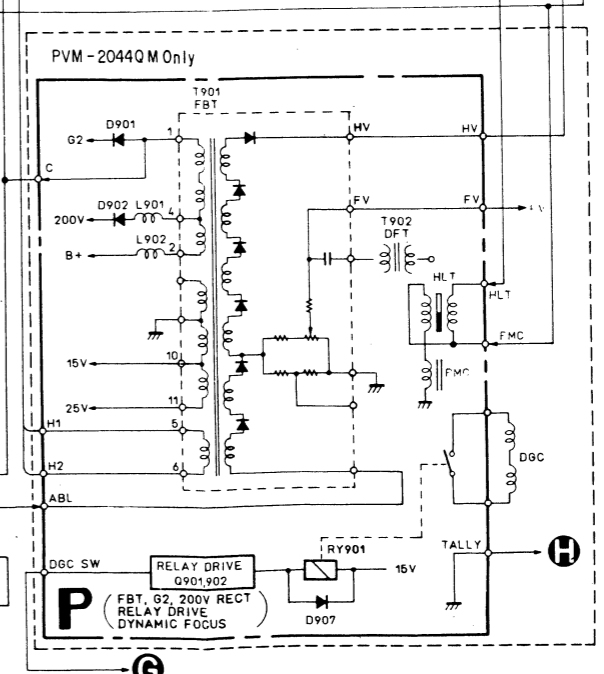
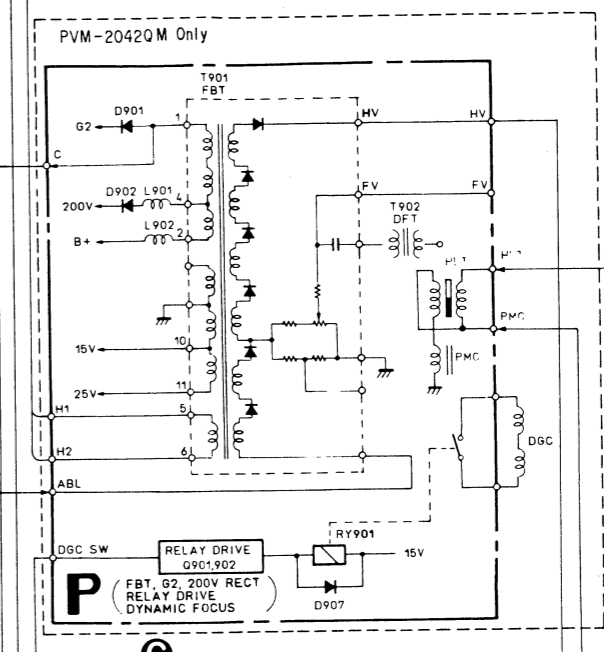
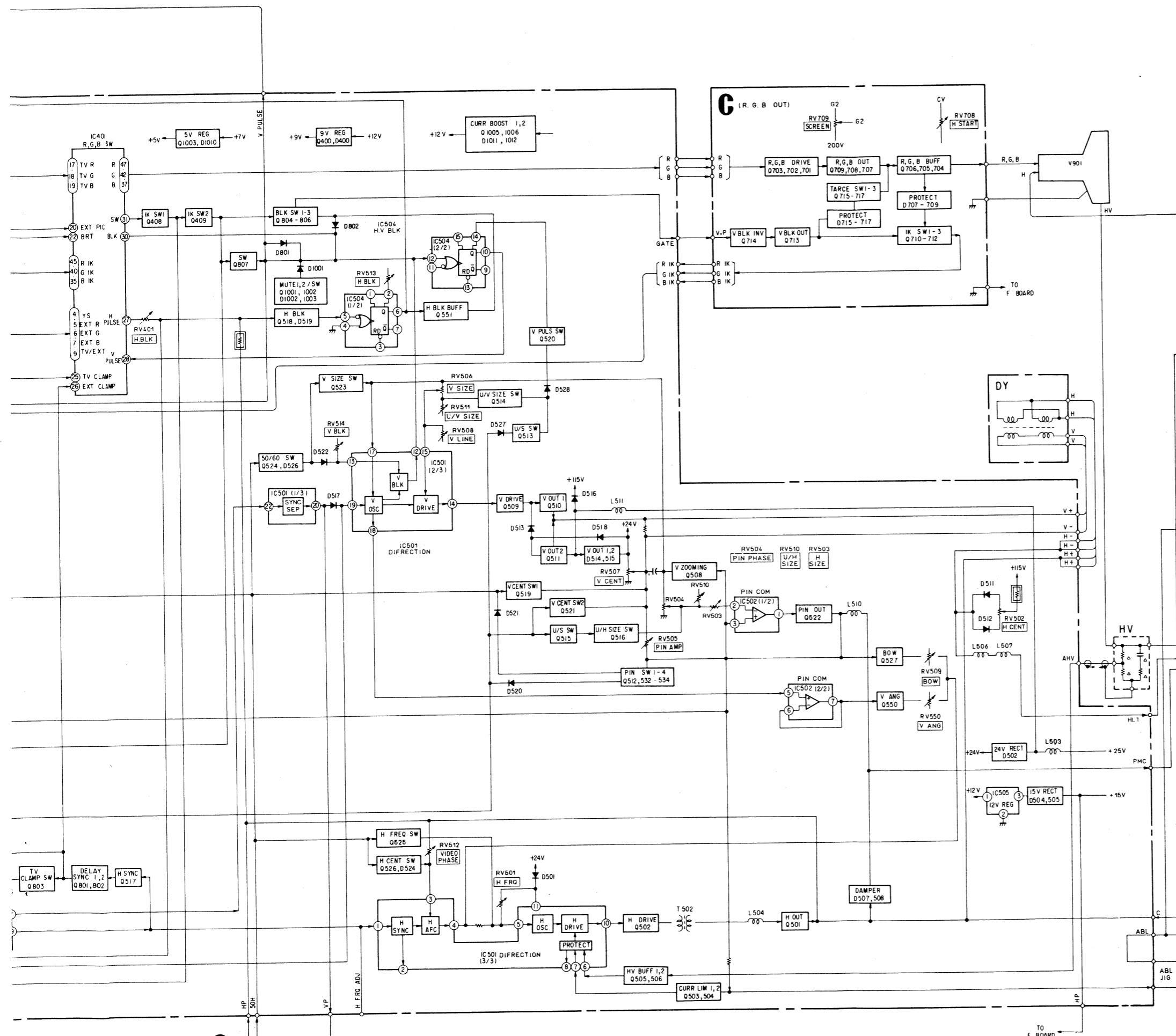
6-2. BLOCK DIAGRAMS





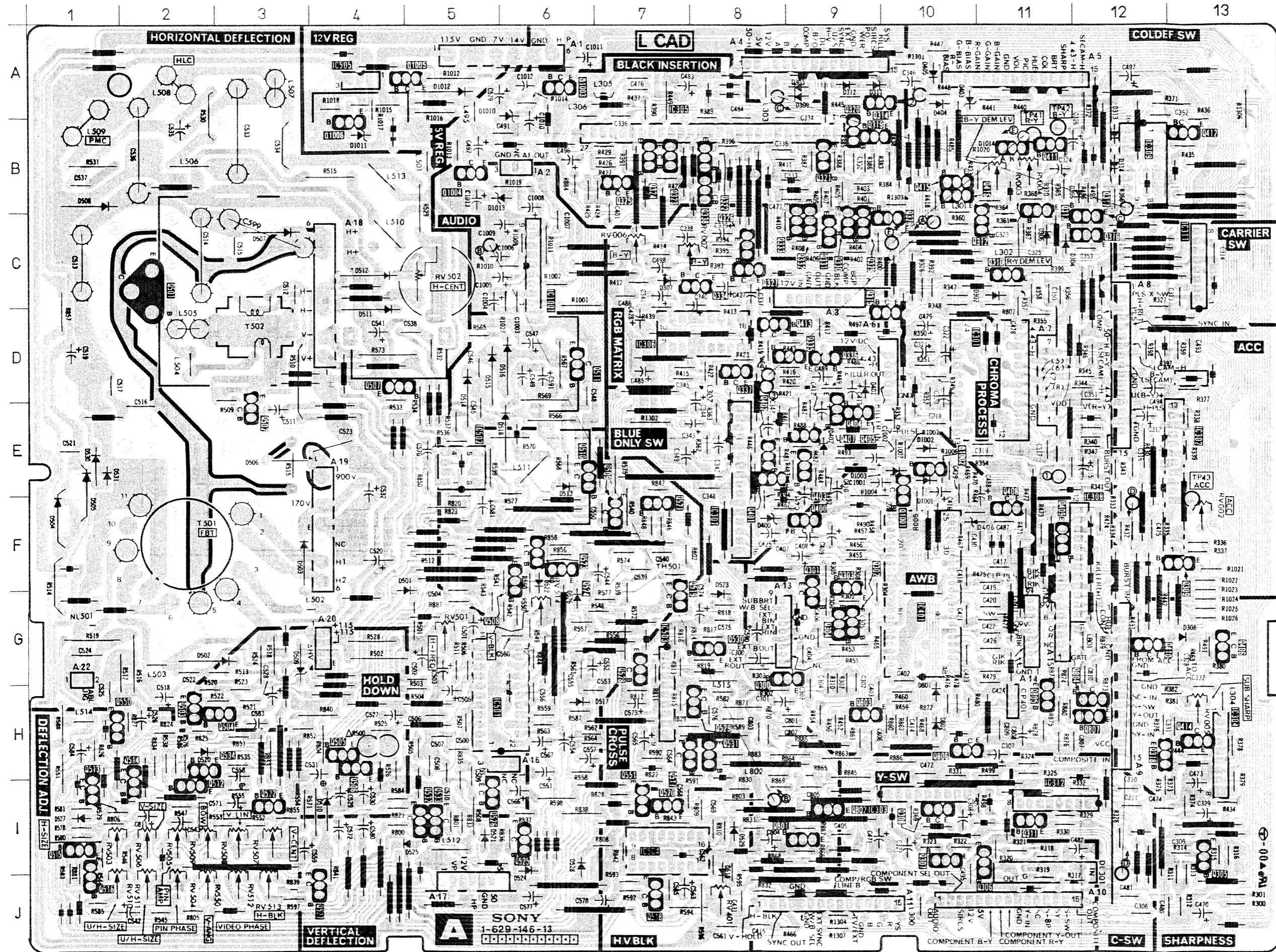






A

[SIGNAL PROCESS, DEFLECTION SYSTEM]



IC		IC	IC
IC301	D-11	Q330	C-9
IC302	E-13	Q331	C-9
IC303	I-10	Q332	C-9
IC304	H-13	Q333	C-9
IC305	B-7	Q334	C-8
IC306	D-8	Q335	D-9
IC307	E-8	Q336	D-9
IC308	F-12	Q337	D-8
IC309	B-12	Q338	B-8
IC311	C-13	Q400	F-9
IC312	I-11	Q401	E-8
IC401	G-10	Q402	E-8
IC501	H-5	Q403	E-9
IC502	E-5	Q404	E-9
IC503	H-7	Q405	E-9
IC504	I-7	Q406	G-13
IC1001	C-6	Q407	E-9
		Q408	F-11
		Q409	F-11
		Q410	G-12
		Q411	B-11
		Q412	B-13
		Q413	D-8
		Q414	H-13
		Q415	B-10
		Q416	B-10
TRANSISTOR		Q501	C-2
Q300	G-8	Q502	E-3
Q301	G-9	Q503	H-2
Q302	G-9	Q504	H-2
Q303	G-9	Q505	H-4
Q304	G-9	Q506	H-4
Q305	I-13	Q507	D-4
Q306	I-11	Q508	F-6
Q307	I-10	Q509	F-7
Q308	I-10	Q510	E-6
Q309	I-13	Q511	D-6
Q310	C-11	Q512	I-2
Q311	I-11	Q513	I-1
Q312	C-11	Q514	I-2
Q313	B-11	Q515	I-1
Q314	A-9	Q516	J-1
Q315	D-9	Q517	H-7
Q316	C-12	Q518	J-7
Q317	C-12	Q519	G-7
Q318	H-12	Q520	I-7
Q319	B-9	Q521	F-7
Q320	B-9	Q522	I-3
Q321	B-9	Q523	F-6
Q322	B-8	Q524	F-6
Q323	B-7	Q525	I-6
Q324	B-7	Q526	I-5
Q325	B-7	Q527	G-7
Q326	C-8	Q528	H-8
Q327	C-8	Q529	H-8
Q328	C-9	Q530	G-8
Q329	C-9		

T [TRAP]

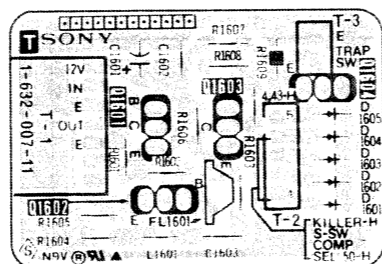
W [3.58/4.43 DISTINCTION]

Xa [CRYSTAL OSC]

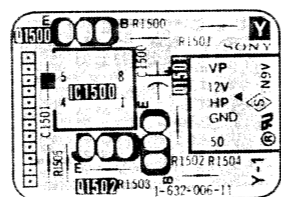
Y [50/60 DISTINCTION]

IC	Q330 C-9	Q531 H-8	D516 D-6
IC301 D-11	Q331 C-9	Q532 I-5	D517 H-6
IC302 E-13	Q332 C-9	Q533 I-5	D518 E-6
IC303 I-10	Q333 C-9	Q534 H-2	D519 J-8
IC304 H-13	Q334 C-8	Q550 H-1	D520 H-2
IC305 B-7	Q335 D-9	Q551 I-7	D521 I-5
IC306 D-8	Q336 D-9	Q801 I-9	D522 F-6
IC307 E-8	Q337 D-8	Q802 I-9	D523 G-8
IC308 F-12	Q338 B-8	Q803 H-9	D524 J-6
IC309 B-12	Q400 F-9	Q804 H-12	D526 G-6
IC311 C-13	Q401 E-8	Q805 H-11	D527 I-1
IC312 I-11	Q402 E-8	Q806 H-10	D528 I-6
IC401 G-10	Q403 E-9	Q807 H-12	D529 I-8
IC501 H-5	Q404 E-9	Q1001 E-10	D530 E-1
IC502 E-5	Q405 E-9	Q1002 E-10	D531 E-1
IC503 H-7	Q406 G-13	Q1003 A-6	D801 H-10
IC504 I-7	Q407 E-9	Q1004 B-5	D802 H-10
IC505 A-4	Q408 F-11	Q1005 A-4	D1001 E-10
IC1001 C-6	Q409 F-11	Q1006 B-4	D1002 E-10
	Q410 G-12		D1003 E-10
	Q411 B-11		D1010 A-6
	Q412 B-13		D1011 B-4
	Q413 D-8		D1012 A-5
	Q414 H-13		D1013 B-5
	Q415 B-10		D1014 B-11
	Q416 B-10		
TRANSISTOR		DIODE	
Q300 G-8	Q501 C-2	D302 C-11	
Q301 G-9	Q502 E-3	D303 A-9	
Q302 G-9	Q503 H-2	D304 C-12	
Q303 G-9	Q504 H-2	D305 B-11	
Q304 G-9	Q505 H-4	D306 C-11	
Q305 I-13	Q506 H-4	D307 C-7	
Q306 I-11	Q507 D-4	D308 G-13	
Q307 I-10	Q508 F-6	D309 A-9	
Q308 I-10	Q509 F-7	D311 A-9	
Q309 I-13	Q510 E-6	D312 A-9	
Q310 C-11	Q511 D-6	D400 F-8	
Q311 I-11	Q512 I-2	D401 D-9	
Q312 C-11	Q513 I-1	D402 E-9	
Q313 B-11	Q514 I-2	D403 A-10	
Q314 A-9	Q515 I-1	D404 A-10	
Q315 D-9	Q516 J-1	D405 A-10	
Q316 C-12	Q517 H-7	D501 G-4	
Q317 C-12	Q518 J-7	D502 G-2	
Q318 H-12	Q519 G-7	D503 F-3	
Q319 B-9	Q520 I-7	D504 F-1	
Q320 B-9	Q521 F-7	D505 E-1	
Q321 B-9	Q522 I-3	D506 E-3	
Q322 B-8	Q523 F-6	D507 C-3	
Q323 B-7	Q524 F-6	D508 B-1	
Q324 B-7	Q525 I-6	D509 G-3	
Q325 B-7	Q526 I-5	D510 I-4	
Q326 C-8	Q527 G-7	D511 D-4	
Q327 C-8	Q528 H-8	D512 C-4	
Q328 C-9	Q529 H-8	D513 E-6	
Q329 C-9	Q530 G-8	D514 D-5	
		D515 D-4	

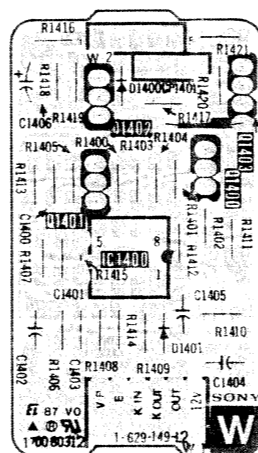
- T Board -



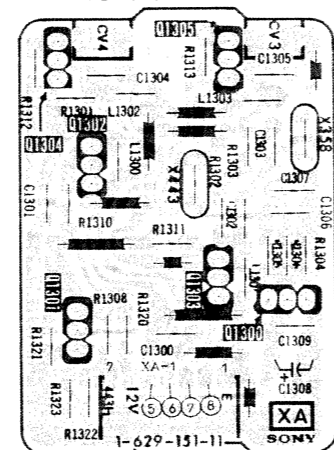
- Y Board -



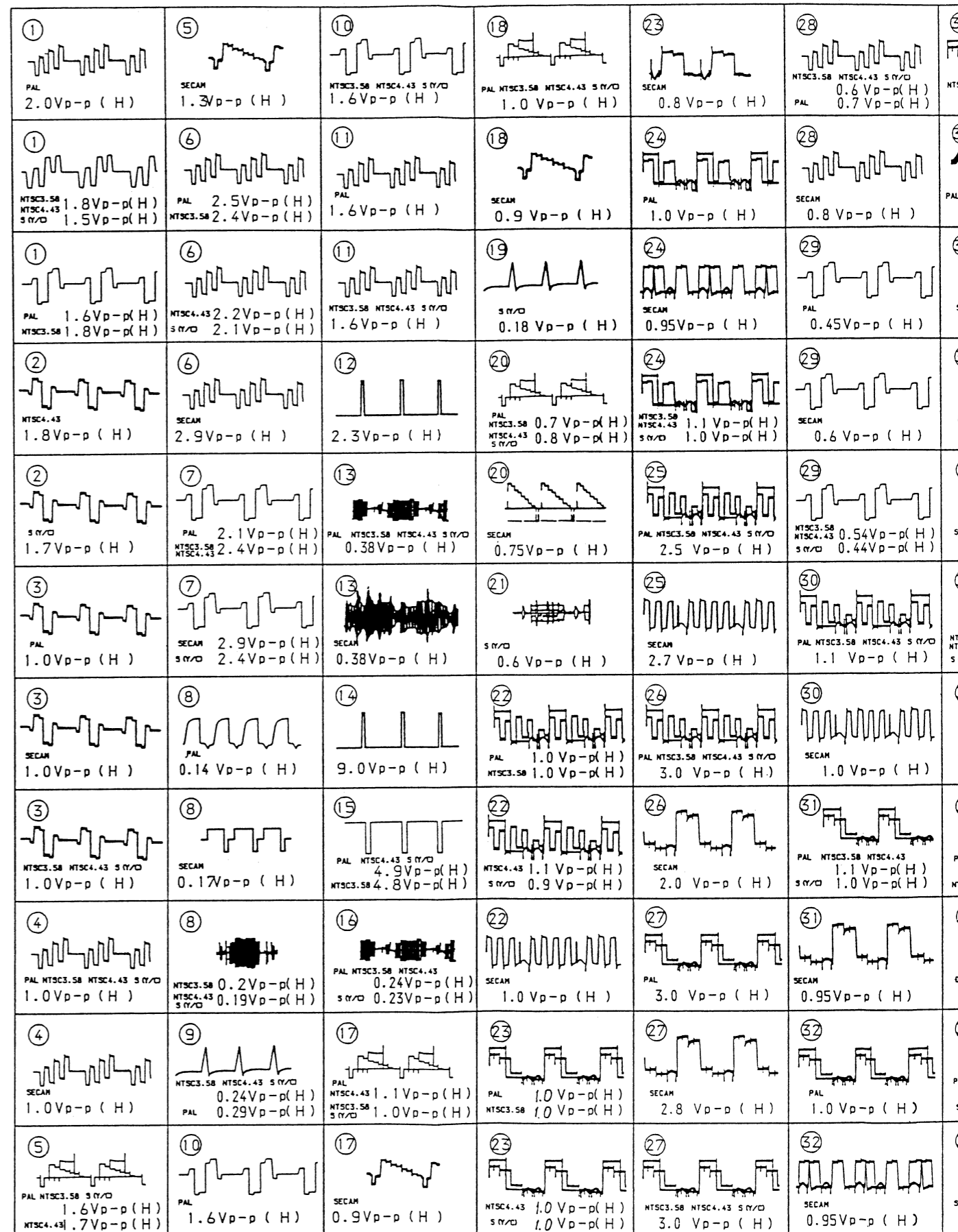
- W Board -



- Xa Board -



A BOARD WAVEFORMS



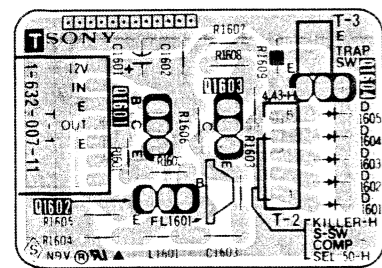
T [TRAP]

W [3.58/4.43
DISTINCTION]

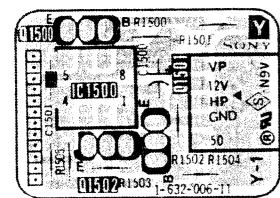
XA [CRYSTAL
OSC]

Y [50/60
DISTINCTION]

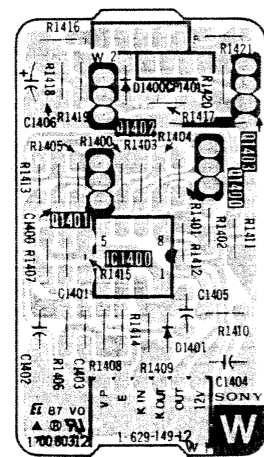
- T Board -



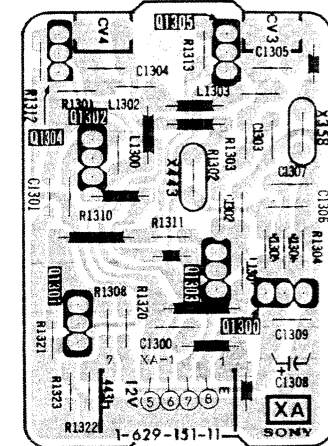
- Y Board -



- W Board -



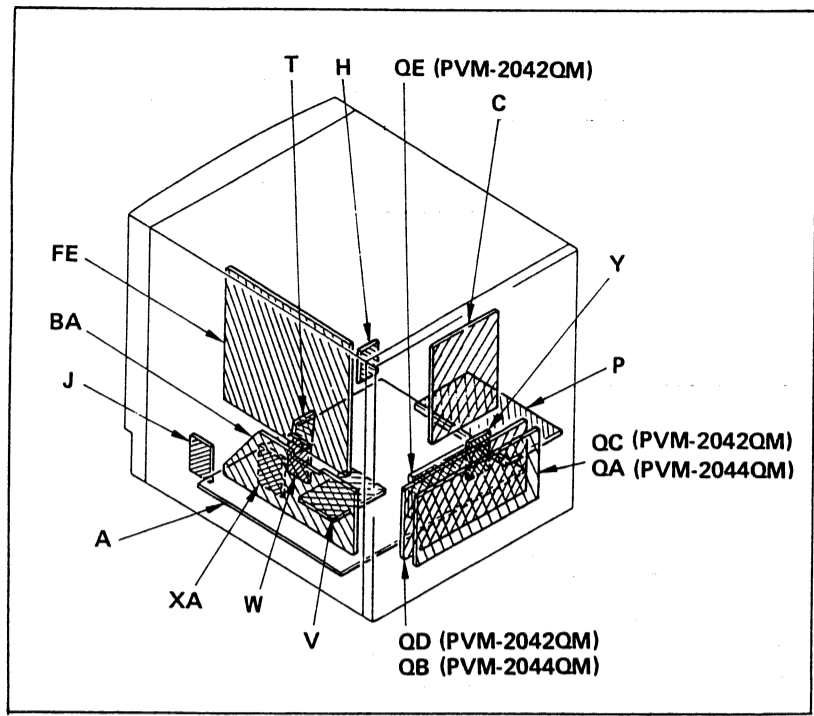
- XA Board -



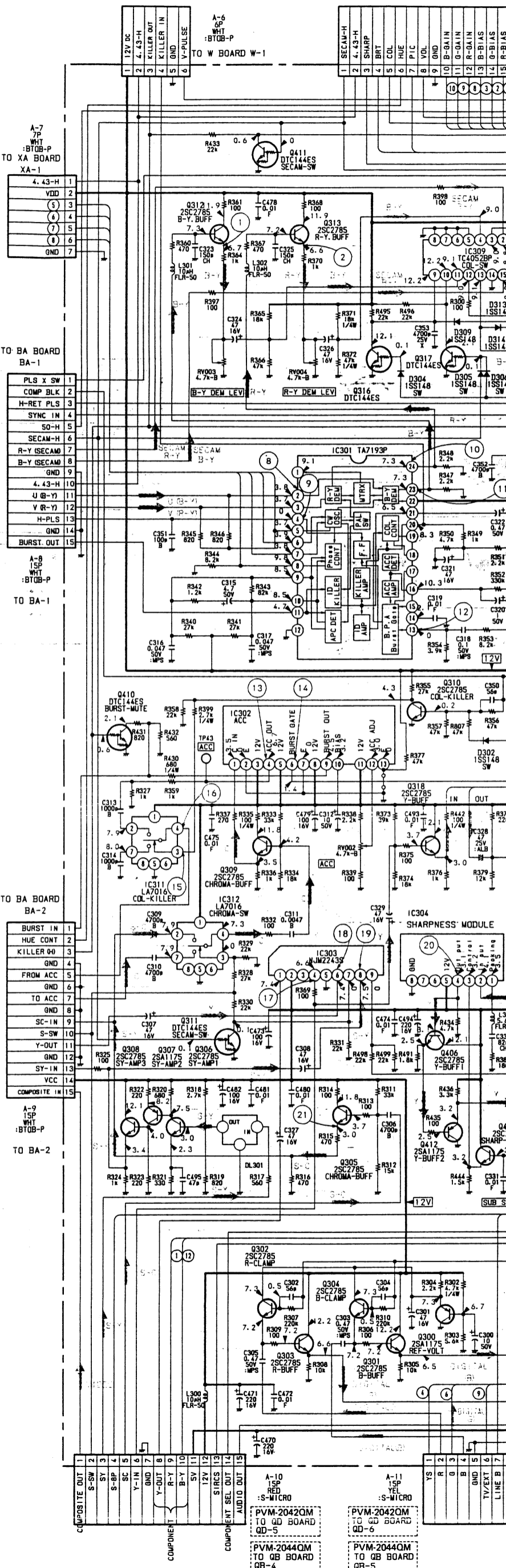
A BOARD WAVEFORMS

① PAL 2.0Vp-p (H)	⑤ SECAM 1.3Vp-p (H)	⑩ NTSC3.58 NTSC4.43 50/60 1.6Vp-p (H)	⑬ PAL NTSC3.58 NTSC4.43 50/60 1.0Vp-p (H)	⑰ SECAM 0.8Vp-p (H)	⑳ NTSC3.58 NTSC4.43 50/60 PAL 0.6Vp-p (H) 0.7Vp-p (H)	㉓ NTSC3.58 NTSC4.43 50/60 1.0Vp-p (H)	㉖ DIGITAL 4.6Vp-p (H)	㉙ 3.0Vp-p (H)	㉛ 10.0Vp-p (H)
① NTSC3.58 NTSC4.43 50/60 1.8Vp-p (H) 1.5Vp-p (H)	⑥ PAL 2.5Vp-p (H) SECAM 2.4Vp-p (H)	⑪ PAL 1.6Vp-p (H)	⑬ SECAM 0.9Vp-p (H)	⑰ PAL 1.0Vp-p (H)	㉓ SECAM 0.8Vp-p (H)	㉖ PAL NTSC3.58 NTSC4.43 50/60 0.48Vp-p (H)	㉙ 8.0Vp-p (H)	㉛ 1.4Vp-p (H)	㉝ 3.6Vp-p (H)
① PAL 1.6Vp-p (H) NTSC3.58 1.8Vp-p (H)	⑥ NTSC4.43 2.2Vp-p (H) 50/60 2.1Vp-p (H)	⑪ NTSC3.58 NTSC4.43 50/60 1.6Vp-p (H)	⑬ 50/60 0.18Vp-p (H)	⑰ SECAM 0.95Vp-p (H)	㉓ PAL 0.45Vp-p (H)	㉖ SECAM 0.56Vp-p (H)	㉙ 0.03Vp-p (H)	㉛ 2.0Vp-p (V)	㉝ 9.6Vp-p (H)
② NTSC4.43 1.8Vp-p (H)	⑥ SECAM 2.9Vp-p (H)	⑫ 2.3Vp-p (H)	⑰ PAL NTSC3.58 NTSC4.43 50/60 NTSC4.43 0.7Vp-p (H) 0.8Vp-p (H) 50/60	⑲ NTSC3.58 1.1Vp-p (H) NTSC4.43 1.0Vp-p (H) 50/60	㉓ SECAM 0.6Vp-p (H)	㉖ PAL 0.6Vp-p (H)	㉙ 4.0Vp-p (H)	㉛ 5.0Vp-p (V)	㉝ 2.8Vp-p (V)
② 50/60 1.7Vp-p (H)	⑦ PAL 2.1Vp-p (H) SECAM 2.4Vp-p (H)	⑬ PAL NTSC3.58 NTSC4.43 50/60 0.38Vp-p (H)	⑰ SECAM 0.75Vp-p (H)	㉓ PAL NTSC3.58 NTSC4.43 50/60 NTSC4.43 2.5Vp-p (H)	㉖ NTSC3.58 0.54Vp-p (H) NTSC4.43 0.44Vp-p (H) 50/60	㉙ SECAM 1.6Vp-p (H)	㉛ PAL NTSC4.43 NTSC3.58 0.9Vp-p (H) 0.85Vp-p (H) 50/60	㉝ 9.6Vp-p (V)	㉟ 1.2Vp-p (V)
③ PAL 1.0Vp-p (H)	⑦ SECAM 2.9Vp-p (H) 50/60 2.4Vp-p (H)	⑬ SECAM 0.38Vp-p (H)	⑰ 50/60 0.6Vp-p (H)	㉓ SECAM 2.7Vp-p (H)	㉖ PAL NTSC3.58 NTSC4.43 50/60 1.1Vp-p (H)	㉙ NTSC3.58 1.0Vp-p (H) NTSC4.43 0.9Vp-p (H) 50/60	㉛ SECAM 0.8Vp-p (H)	㉝ 6.7Vp-p (H)	
③ SECAM 1.0Vp-p (H)	⑧ PAL 0.14Vp-p (H)	⑭ 9.0Vp-p (H)	⑲ PAL 1.0Vp-p (H) NTSC3.58 1.0Vp-p (H)	㉓ PAL NTSC3.58 NTSC4.43 50/60 3.0Vp-p (H)	㉖ SECAM 1.0Vp-p (H)	㉙ DIGITAL 4.8Vp-p (H)	㉛ DIGITAL 1.4Vp-p (H)	㉝ 3.3Vp-p (H)	
③ NTSC3.58 NTSC4.43 50/60 1.0Vp-p (H)	⑧ SECAM 0.17Vp-p (H)	⑮ PAL NTSC4.43 50/60 4.9Vp-p (H) NTSC3.58 4.8Vp-p (H) 50/60	⑲ NTSC4.43 1.1Vp-p (H) 50/60 0.9Vp-p (H)	㉓ SECAM 2.0Vp-p (H)	㉖ PAL NTSC3.58 NTSC4.43 50/60 1.1Vp-p (H) 1.0Vp-p (H) 50/60	㉙ PAL NTSC4.43 50/60 4.7Vp-p (H) NTSC3.58 4.6Vp-p (H) 50/60	㉛ 0.28Vp-p (H)	㉝ 3.8Vp-p (H)	
④ PAL NTSC3.58 NTSC4.43 50/60 1.0Vp-p (H)	⑧ NTSC3.58 0.2Vp-p (H) NTSC4.43 0.19Vp-p (H) 50/60	⑮ PAL NTSC3.58 NTSC4.43 50/60 0.24Vp-p (H) 0.23Vp-p (H)	⑲ SECAM 1.0Vp-p (H)	㉓ PAL 3.0Vp-p (H)	㉖ SECAM 0.95Vp-p (H)	㉙ DIGITAL 3.2Vp-p (H)	㉛ 9.0Vp-p (H)	㉝ 4.7Vp-p (H)	
④ SECAM 1.0Vp-p (H)	⑨ NTSC3.58 NTSC4.43 50/60 0.24Vp-p (H) PAL 0.29Vp-p (H)	⑰ PAL NTSC4.43 1.1Vp-p (H) NTSC3.58 1.0Vp-p (H) 50/60	⑲ PAL 1.0Vp-p (H) NTSC3.58 1.0Vp-p (H)	㉓ SECAM 2.8Vp-p (H)	㉖ PAL 1.0Vp-p (H)	㉙ PAL NTSC4.43 NTSC3.58 4.4Vp-p (H) 50/60 4.3Vp-p (H)	㉛ 9.0Vp-p (H)	㉝ 8.2Vp-p (V)	
⑤ PAL NTSC3.58 50/60 1.6Vp-p (H) NTSC4.43 1.7Vp-p (H)	⑩ PAL 1.6Vp-p (H)	⑰ SECAM 0.9Vp-p (H)	⑲ NTSC4.43 1.0Vp-p (H) 50/60 1.0Vp-p (H)	㉓ NTSC3.58 NTSC4.43 50/60 3.0Vp-p (H)	㉖ SECAM 0.95Vp-p (H)	㉙ SECAM 4.3Vp-p (H)	㉛ 3.0Vp-p (H)	㉝ 11.0Vp-p (H)	

6-4. CIRCUIT BOARDS LOCATION



6-5. SCHEMATIC DIAGRAMS



Note:

- All capacitors are in μF unless otherwise noted. pF : μF 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 $\frac{1}{4}$ W

- All resistors are in ohms.
- : nonflammable resistor.
- : fusible resistor.
- Δ : internal component.
- : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- The components 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 R500 and R890 adjust on Page 17 and 18.)
- When replacing the part in below table, be sure to perform the related adjustment.

Part replaced ()	Adjustment ()
IC801, IC802, IC851, D854, D855, C858, C859, R834, R852, R853, R854, R855, R856, R857, R885, R671, R890, RV601	R890 (B+ MAX)
IC501, Q503, Q504, Q505, Q508, D509, D510, C505, C520, C524, C525, C528, C527, C528, C529, C530, C531, R500, R508, R516, R517, R518, R519, R520, R521, R522, R523, R524, R525, R526, R528, R804, NL501, HVR	R500 (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 NTSC 3.58 color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- : B + bus.
- : B - bus.
- : signal path.
- No mark : with NTSC 3.58 color-bar signal received or common voltage.
- For the respective voltage ratings in PAL, SECAM, NTSC 4.43, S-VIDEO, and DIGITAL modes, see the table.

Reference information

- RESISTOR : RN METAL FILM
: RC SOLID
: FPRD NONFLAMMABLE CARBON
: FUSE NONFLAMMABLE FUSIBLE
: RW NONFLAMMABLE WIREWOUND
: RS NONFLAMMABLE METAL OXIDE
: RB NONFLAMMABLE CEMENT
- 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

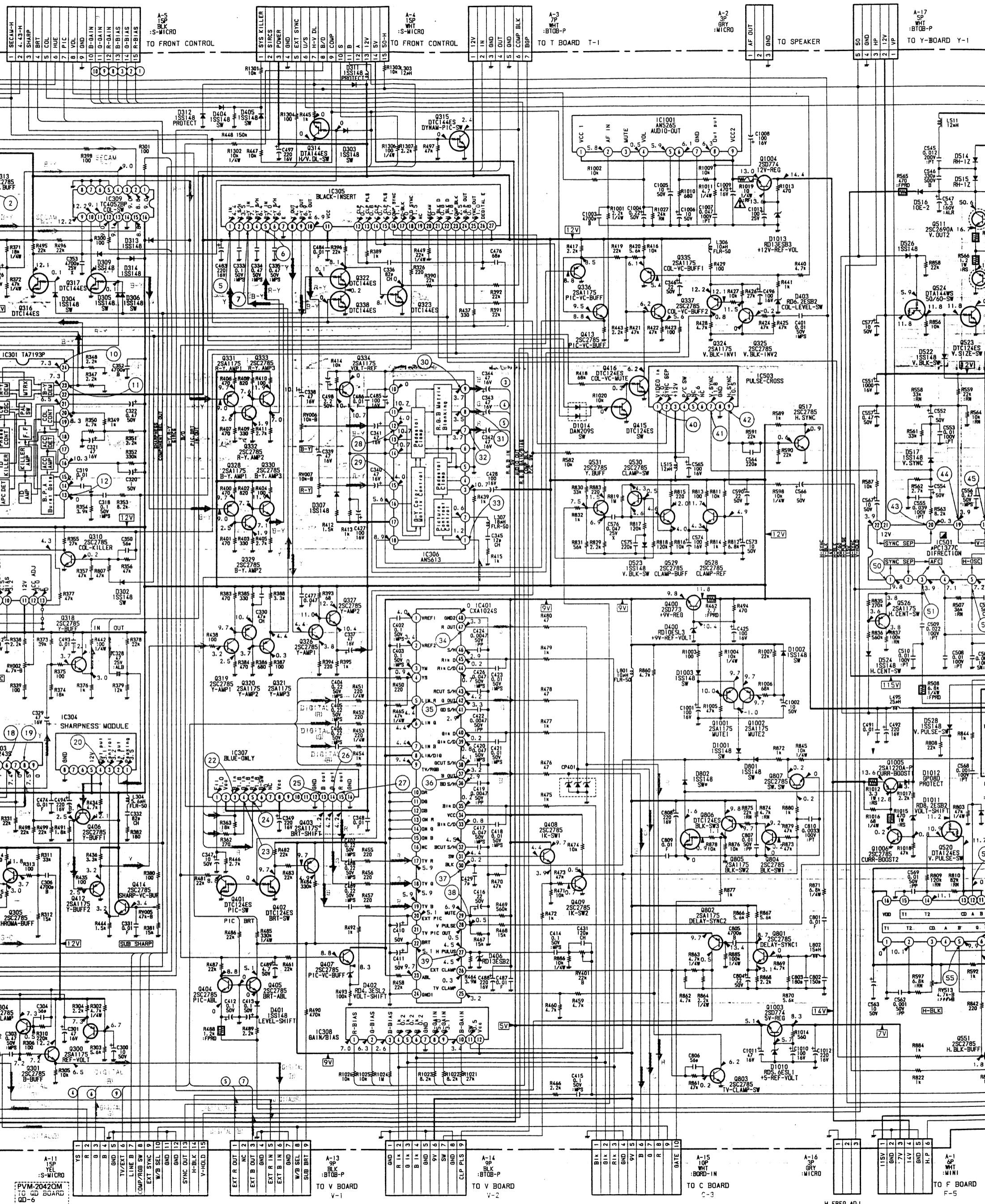
A BOARD

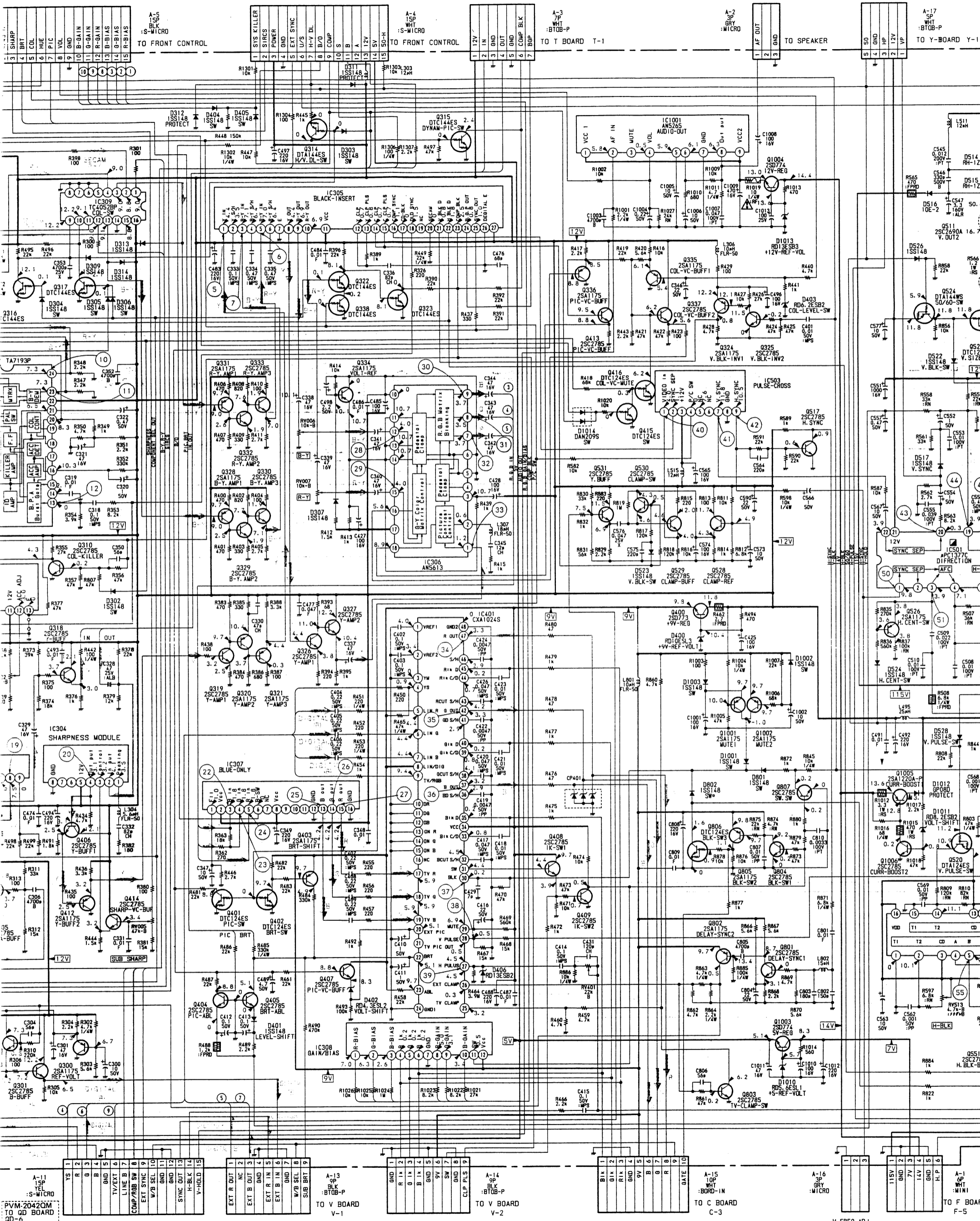
Q-NO.	PAL	SECAM	NTSC 3.58	NTSC 4.43	S-VIDEO	DIGITAL
Q411	0.1	0.1	0.1	0.1	0.1	0.1
Q316	0.1	0.1	0.1	0.1	0.1	0.1
Q317	0.1	0.1	0.1	0.1	0.1	0.1
Q410	0.1	0.1	0.1	0.1	0.1	0.1
Q310	0.1	0.1	0.1	0.1	0.1	0.1
Q404	0.1	0.1	0.1	0.1	0.1	0.1
Q405	0.1	0.1	0.1	0.1	0.1	0.1
Q407	0.1	0.1	0.1	0.1	0.1	0.1
Q401	0.1	0.1	0.1	0.1	0.1	0.1
Q328	0.1	0.1	0.1	0.1	0.1	0.1
Q329	0.1	0.1	0.1	0.1	0.1	0.1
Q331	0.1	0.1	0.1	0.1	0.1	0.1
Q352	0.1	0.1	0.1	0.1	0.1	0.1
Q333	0.1	0.1	0.1	0.1	0.1	0.1
Q322	0.1	0.1	0.1	0.1	0.1	0.1
Q323	0.1	0.1	0.1	0.1	0.1	0.1
Q356	0.1	0.1	0.1	0.1	0.1	0.1

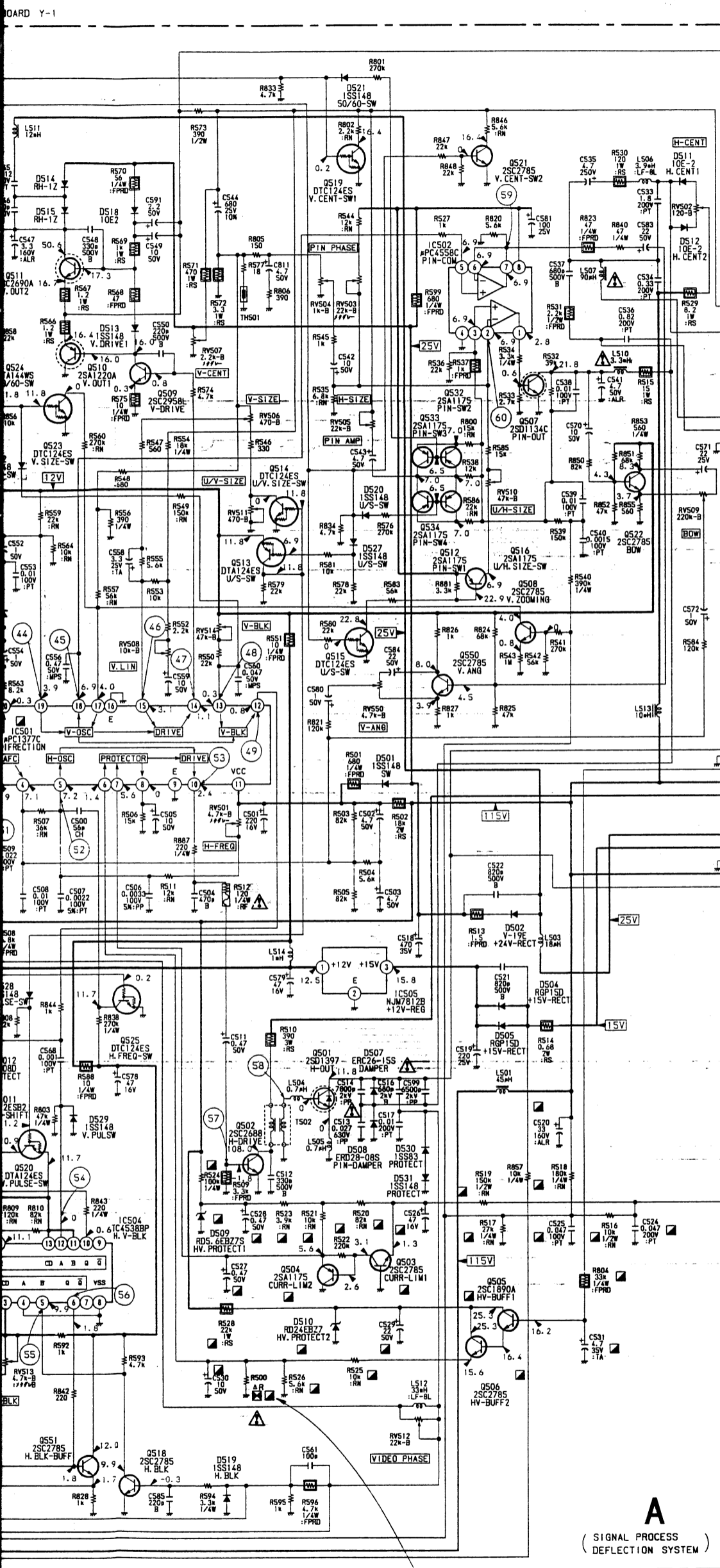
Q-NO.	PAL	SECAM	NTSC 3.58	NTSC 4.43	S-VIDEO	DIGITAL
Q413	0.1	0.1	0.1	0.1	0.1	0.1
Q355	0.1	0.1	0.1	0.1	0.1	0.1
Q357	0.1	0.1	0.1	0.1	0.1	0.1
Q416	0.1	0.1	0.1	0.1	0.1	0.1
Q415	0.1	0.1	0.1	0.1	0.1	0.1
Q507	0.1	0.1	0.1	0.1	0.1	0.1
Q532	0.1	0.1	0.1	0.1	0.1	0.1
Q534	0.1	0.1	0.1	0.1	0.1	0.1
Q516	0.1	0.1	0.1	0.1	0.1	0.1

IC-NO.	PIN-NO.	PAL	SECAM	NTSC 3.58	NTSC 4.43	S-VIDEO	DIGITAL
IC309	(1)	9.0	9.0	9.0	9.0	9.0	9.0
IC305	(1)	9.0	9.0	9.0	9.0	9.0	9.0
IC301	(1)	9.0	9.0	9.0	9.0	9.0	9.0
IC306	(1)	9.0	9.0	9.0	9.0	9.0	9.0
IC302	(1)	9.0	9.0	9.0	9.0	9.0	9.0
IC311	(1)	9.0	9.0	9.0	9.0	9.0	9.0
IC312	(1)	9.0	9.0	9.0	9.0	9.0	9.0
IC303	(1)	9.0	9.0	9.0	9.0	9.0	9.0
IC304	(1)	9.0	9.0	9.0	9.0	9.0	9.0
IC401	(1)	9.0	9.0	9.0	9.0	9.0	9.0
IC503	(1)	9.0	9.0	9.0	9.0	9.0	9.0

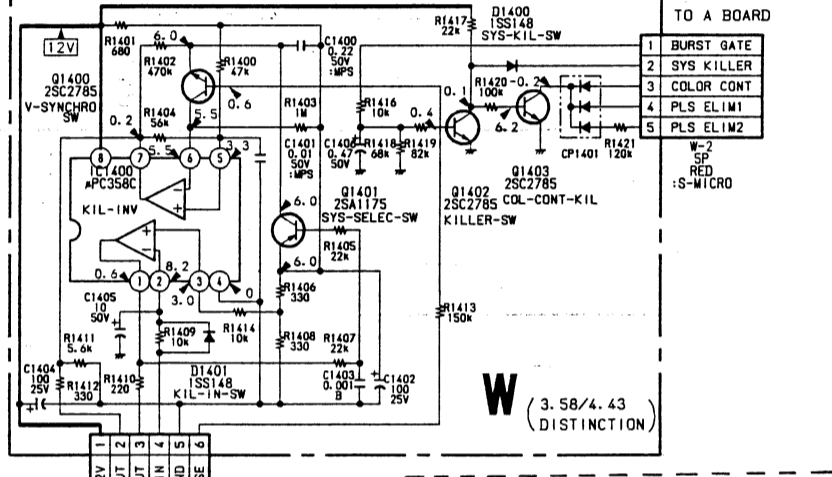
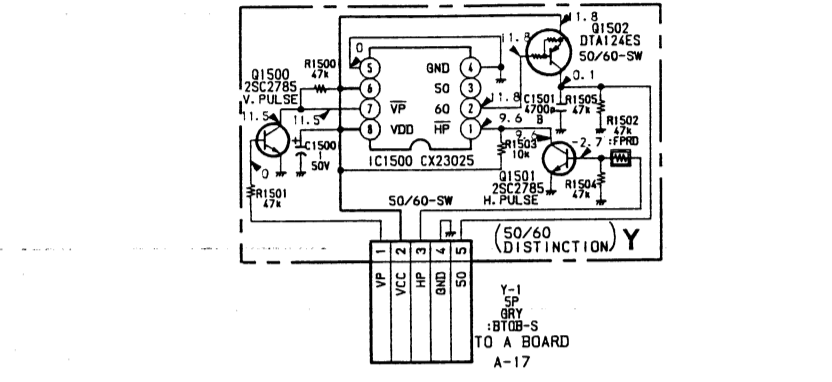
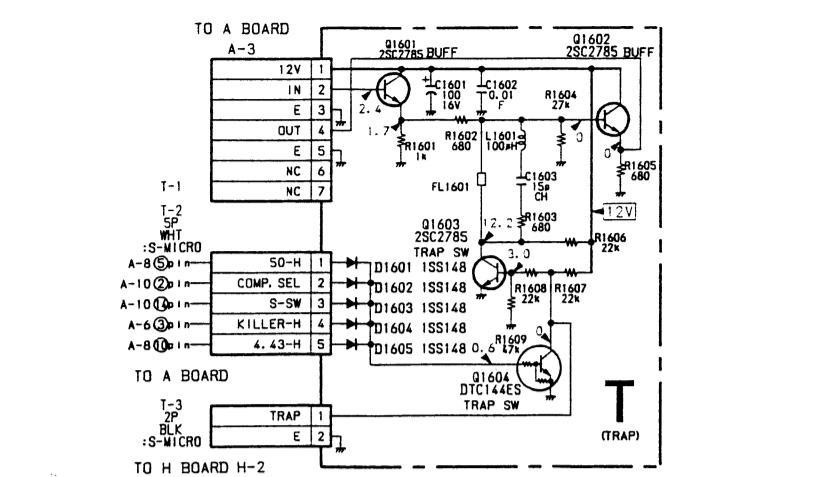
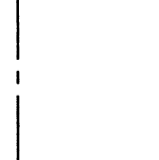
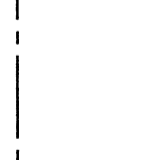
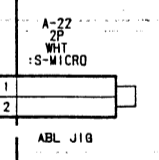
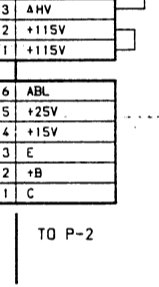
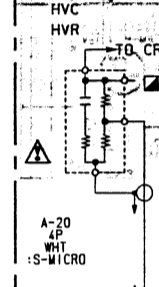
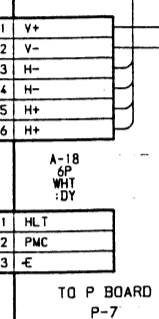
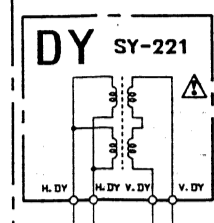
Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.







R500: See page 17, 18

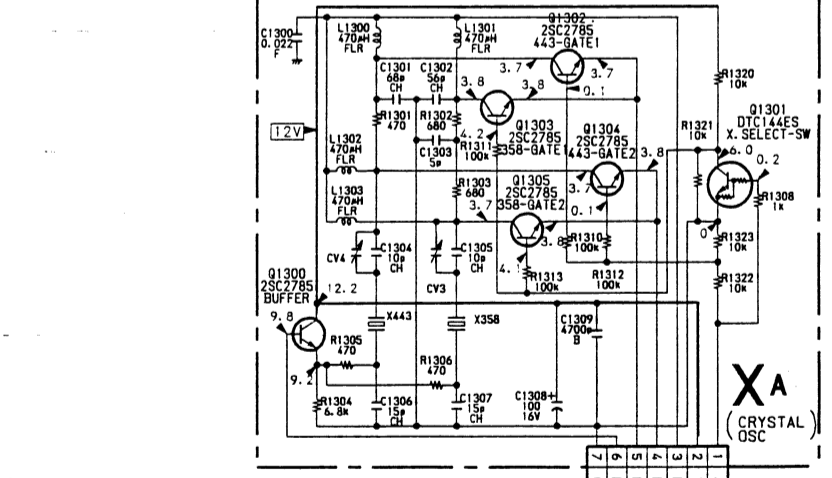


W BOARD

IC NO.	PIN NO.	PAL	SECAM	NTSC 3.58	NTSC 4.43
IC1400	(1)	3.4	10.8	0.8	3.6
	(2)	8.2	2.0	0.2	8.2
	(3)	8.2	*	3.3	8.2
	(4)	10.8	*	0.2	10.8

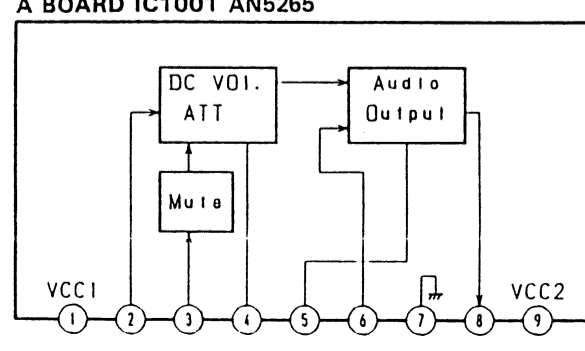
Q NO.	PAL	SECAM	NTSC 3.58	NTSC 4.43
Q1400	E	6.0	*	6.0
	C	5.5	*	5.5
	B	0.6	*	0.6
Q1401	C	6.0	*	6.0
	B	5.4	10.8	5.4
	E	6.0	*	6.0
Q1403	C	6.0	6.2	6.1
	B			

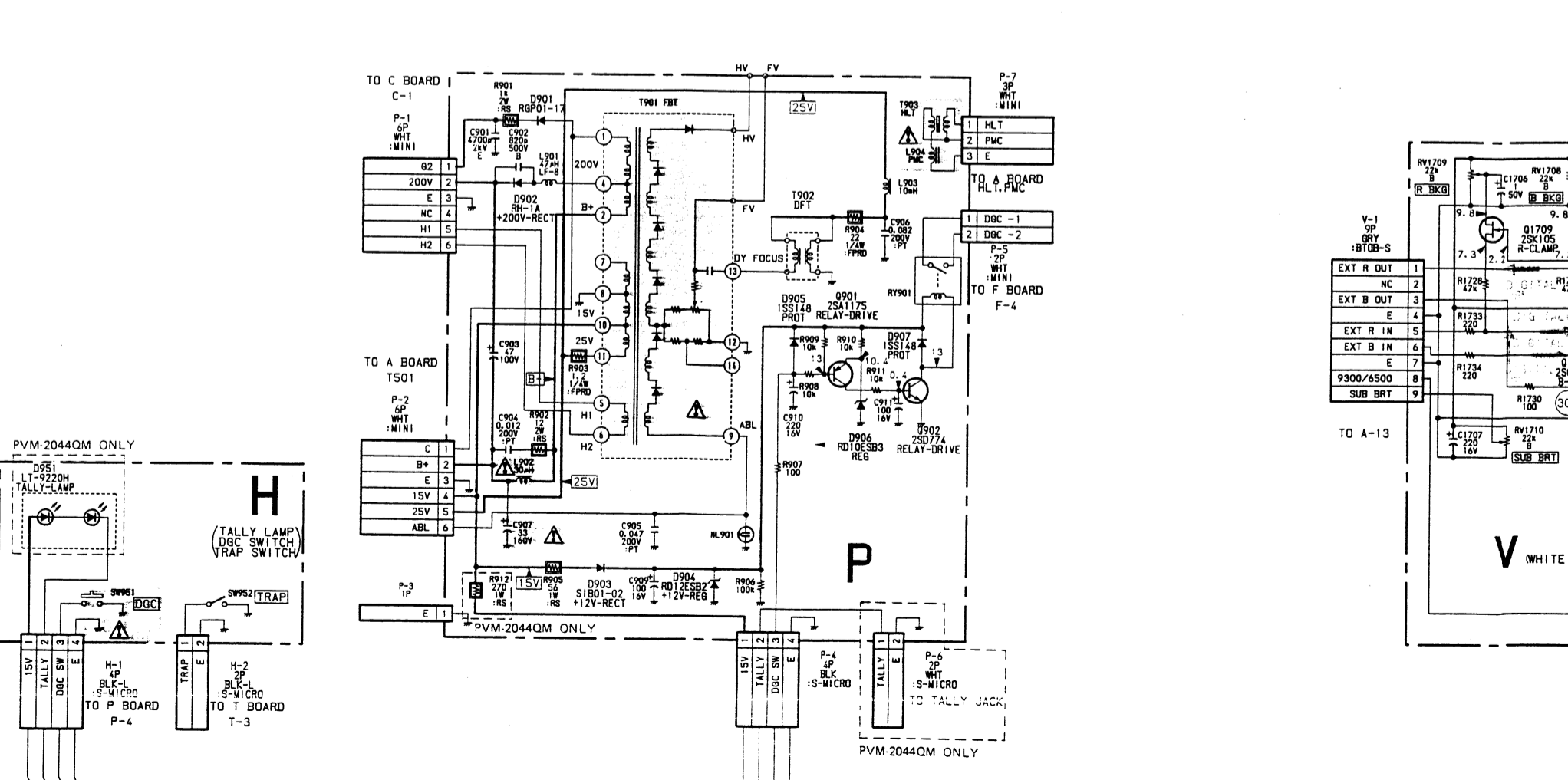
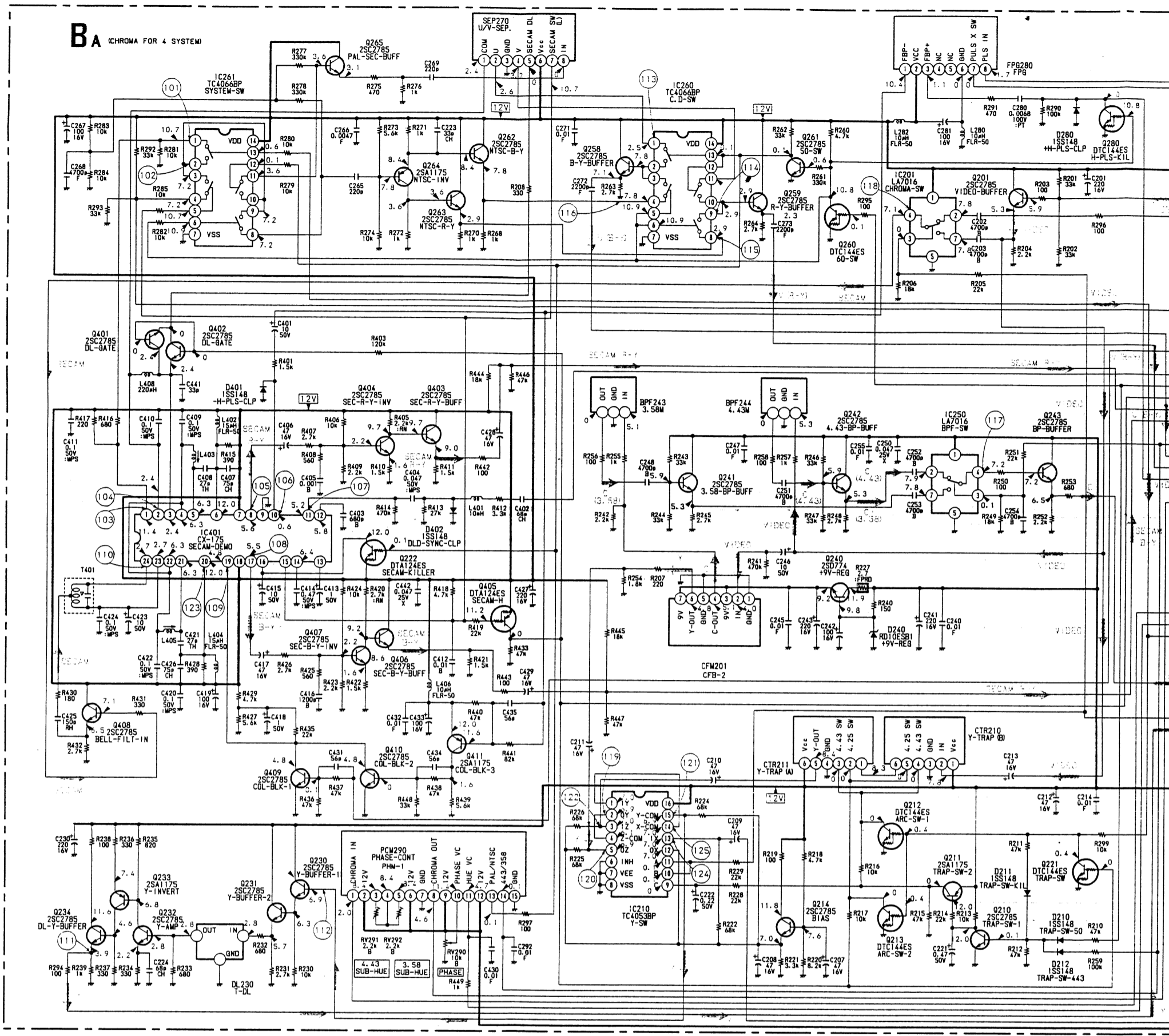
* MEASUREMENT IMPOSSIBILITY.

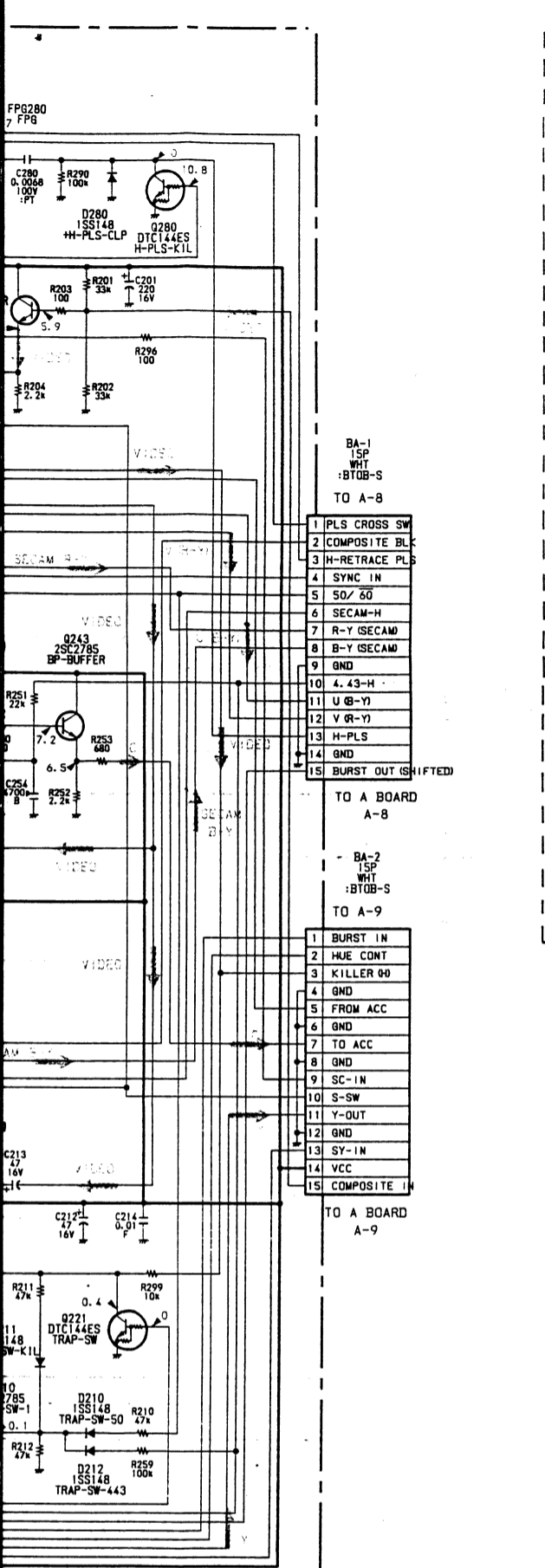


XA BOARD

Q NO.	PAL	SECAM	NTSC 3.58	NTSC 4.43	S-VIDEO	DIGITAL
Q1301	E	0.1	*	0.1	5.8	*
	B	10.2	*	10.2	2.2	*
	C					
Q1302	E	4.0	*	4.2	0.2	*
	B	3.8	*	4.3	3.2	*
	C	0.1	*	0.1	4.2	*





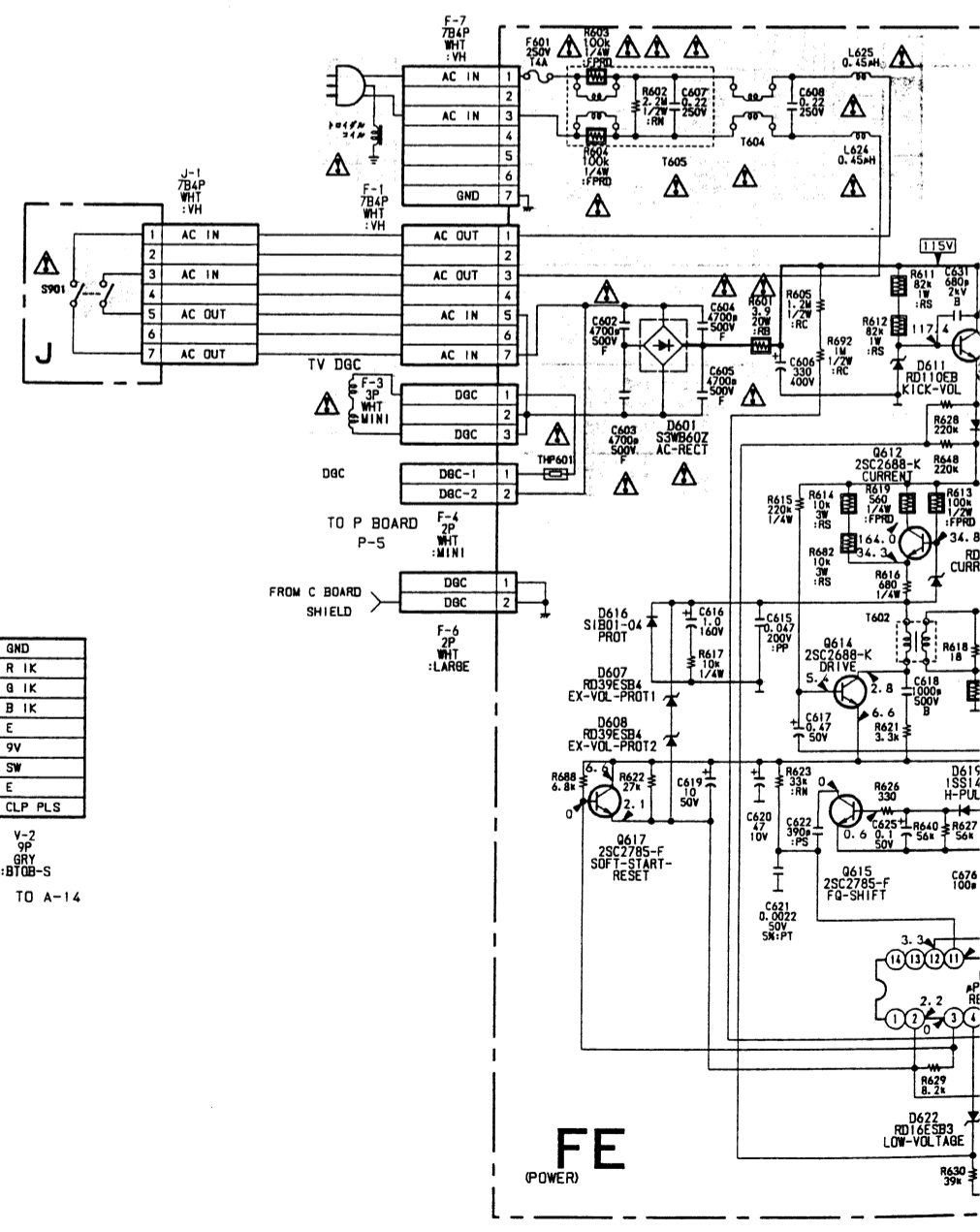
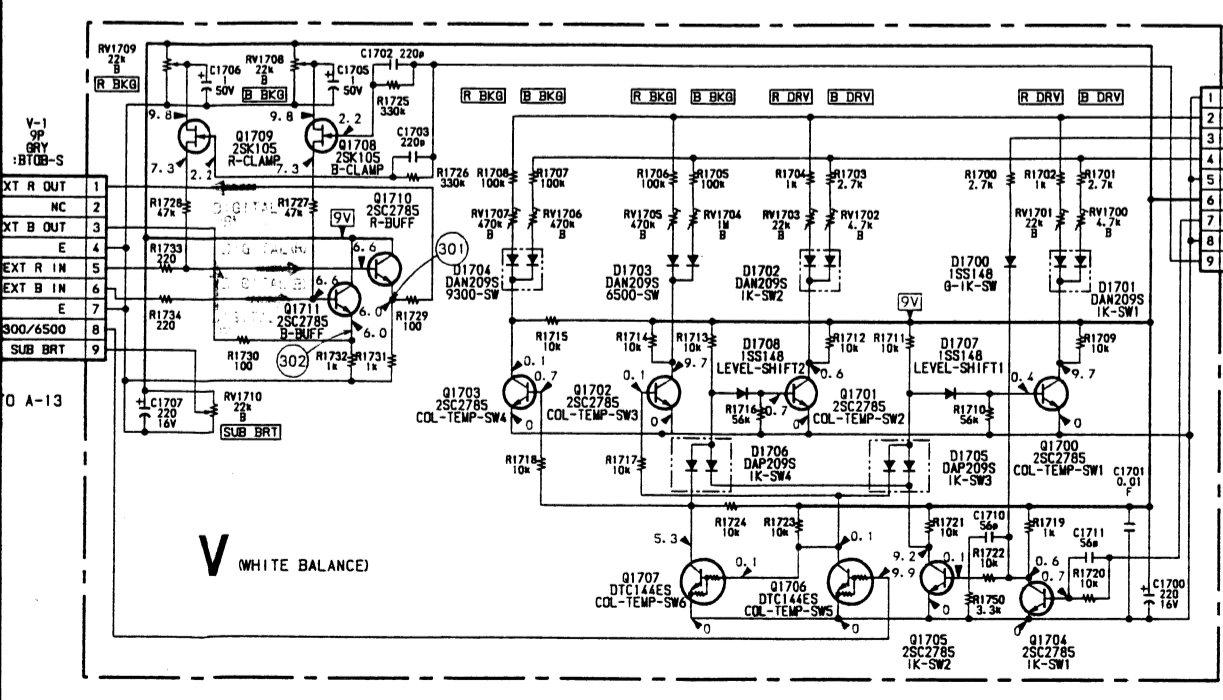
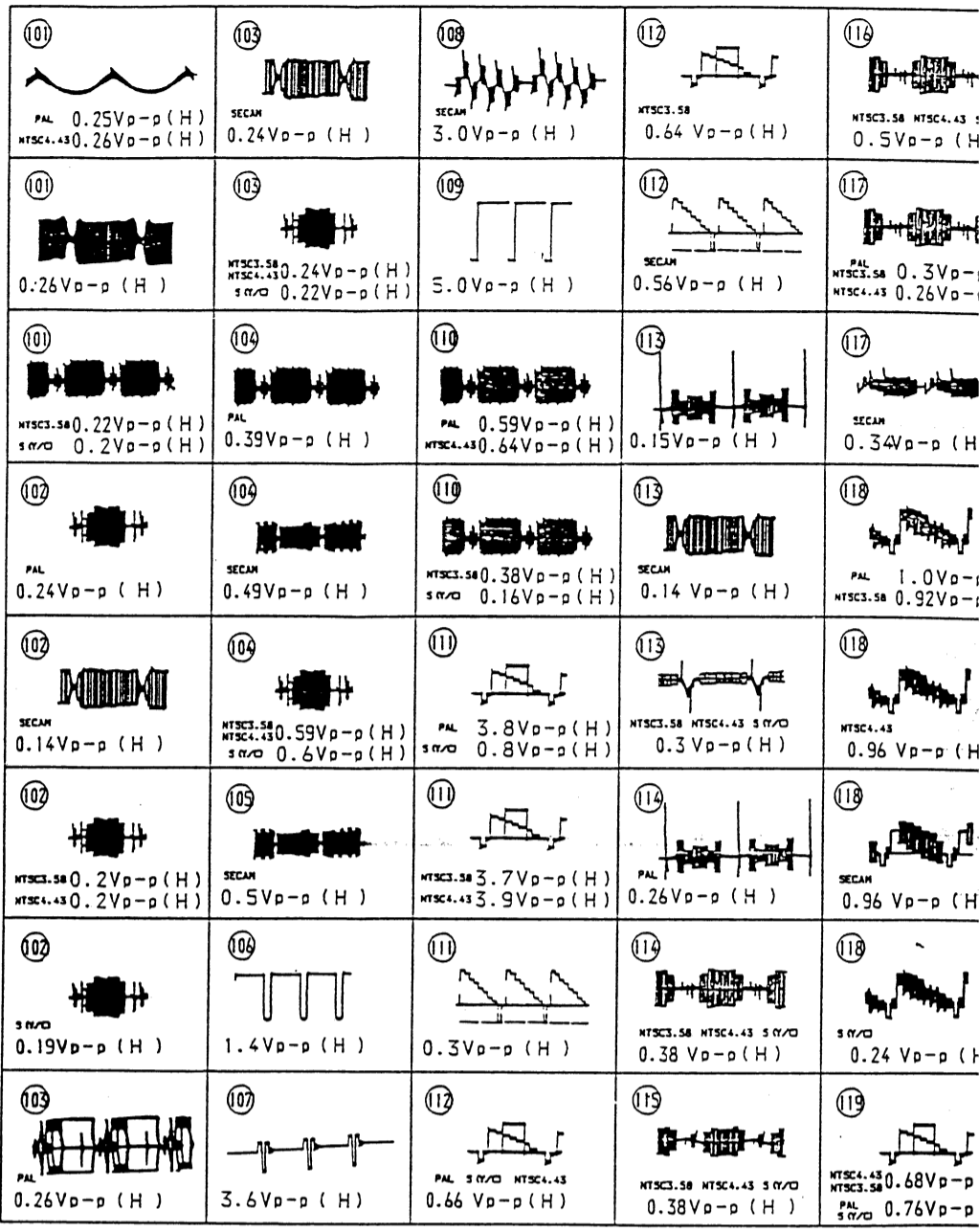


BA BOARD

Q-NO.	PAL	SECAM	NTSC 3.58	NTSC 4.43	S-VIDEO	DIGITAL
Q211	12.0	12.0	0	12.0		
Q212	0.3	5.3	0	5.3		
Q213	3.5	3.5	3.4	3.5		
Q221	0.5	0	0.4	0.5	0.4	0.5
Q258	0	12.0	0	0	0	0
Q259	1.2	3.2	2.9	3.0	2.9	3.0
Q261	12.0	12.0	0.1	0.1	0.1	0.1
Q280	0	0	10.8	10.8		
Q222	7.7	6.7	12.0	12.0	11.8	11.8
Q401	0	2.5	0	0		
Q402	2.4	2.5	2.4	2.4		
Q405	0	12.0	0	0		
Q408	11.1	6.0	11.2	11.1		

IC-NO.	PIN-NO.	PAL	SECAM	NTSC 3.58	NTSC 4.43	S-VIDEO	DIGITAL
IC260	(1)	4.4	0	0.1	4.4	0	4.7
	(2)	0	0	0	0	0	0.1
	(3)	2.6	2.6	7.8	7.8	7.7	7.6
	(4)	0	0	10.8	10.8	10.7	10.6
	(5)	0	0	0	0	0	0
IC261	(1)	12.0	12.0	0.1	0.1	0.1	0.1
	(2)	0	0	10.8	10.8	10.6	10.6
	(3)	7.2	7.2	7.2	7.2	7.1	7.0
	(4)	10.7	0.1	10.7	10.7	10.5	10.4
	(5)	0	0	10.9	10.8	10.6	10.6
IC401	(1)	5.8	5.9	7.2	7.2	7.1	7.0
	(2)	7.2	10.6	7.2	7.2	7.1	7.0
	(3)	10.7	0.1	10.7	10.7	10.5	10.4
	(4)	0	0	10.9	10.8	10.6	10.6
	(5)	7.2	10.6	7.2	7.2	7.1	7.0
IC210	(1)	12.0	12.0	0	0	0	0
	(2)	0	12.0	0	0	0	0
	(3)	0.1	0.1	0.1	0.1	0.1	0.1
	(4)	0.1	0.1	0.1	0.1	0.1	0.1
	(5)	0.1	0.1	0.1	0.1	0.1	0.1

BA BOARD WAVEFORMS



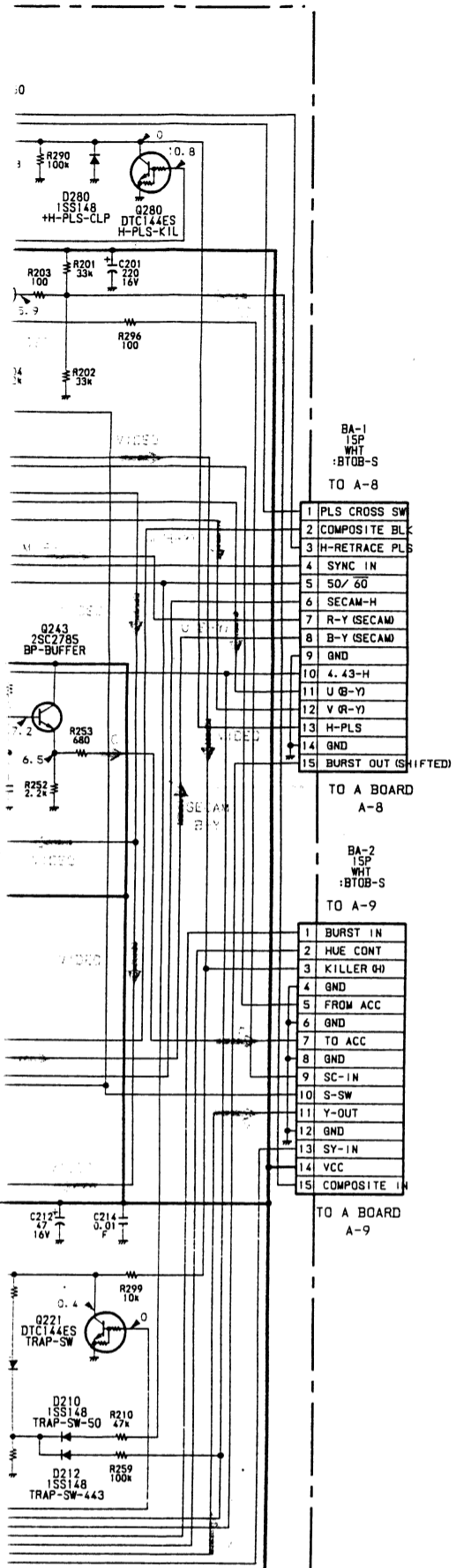
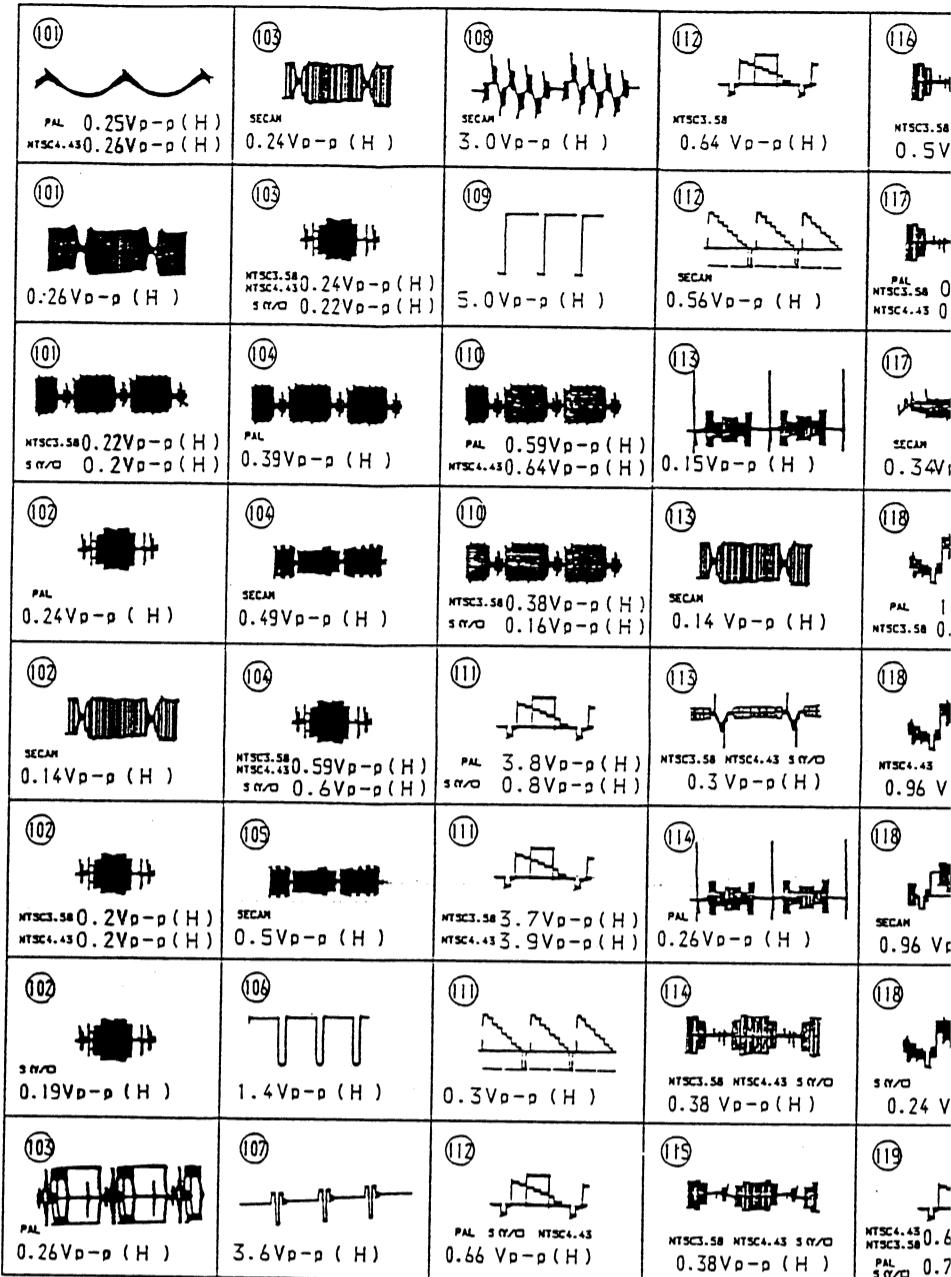
BA BOARD

Q.NO.	PAL	SECAM	NTSC 3.58	NTSC 4.43	S-VIDEO	DIGITAL
Q211	12.0	12.0	12.0	12.0		
Q212	5.3	5.3	5.3	5.3		
Q213	7.5	7.5	7.5	7.5		
Q221	3.5	3.5	3.5	3.5		
Q258	2.6	2.6	2.6	2.6		
Q259	3.2	3.2	3.2	3.2		
Q261	2.0	2.0	2.0	2.0		
Q280	7.7	7.7	7.7	7.7		
Q401	2.4	2.4	2.4	2.4		
Q402	2.4	2.4	2.4	2.4		
Q405	12.0	12.0	12.0	12.0		
Q408	7.1	7.1	7.1	7.1		

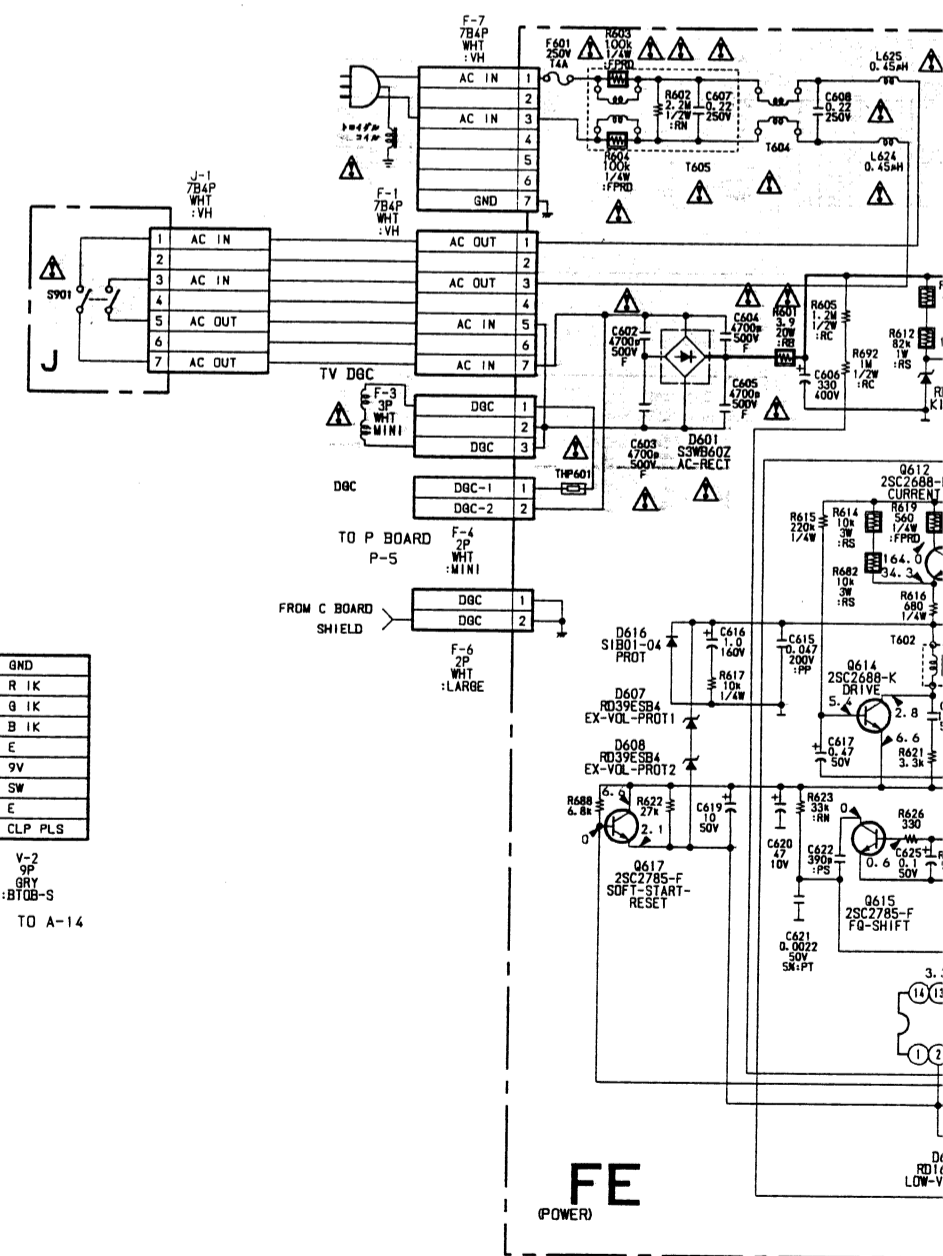
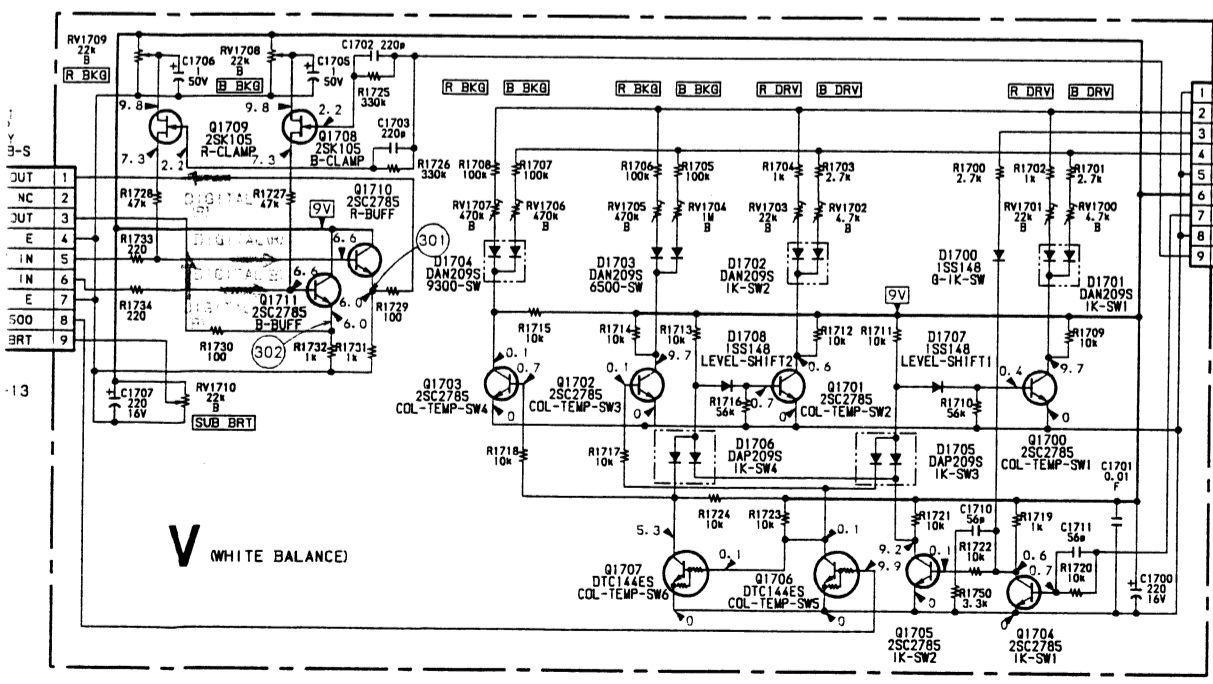
IC.NO.	PIN-NO.	PAL	SECAM	NTSC 3.58	NTSC 4.43	S-VIDEO	DIGITAL
IC250	(1)	4.4	*	0.1	4.6	3	*
IC260	(1)	2.6	2.6	2.6	2.6	2.7	2.6
IC261	(1)	3.2	3.2	3.2	3.2	3.1	3.1
IC401	(1)	10.7	10.7	10.7	10.7	10.8	10.8
IC210	(1)	2.1	2.1	2.1	2.1	2.1	2.1

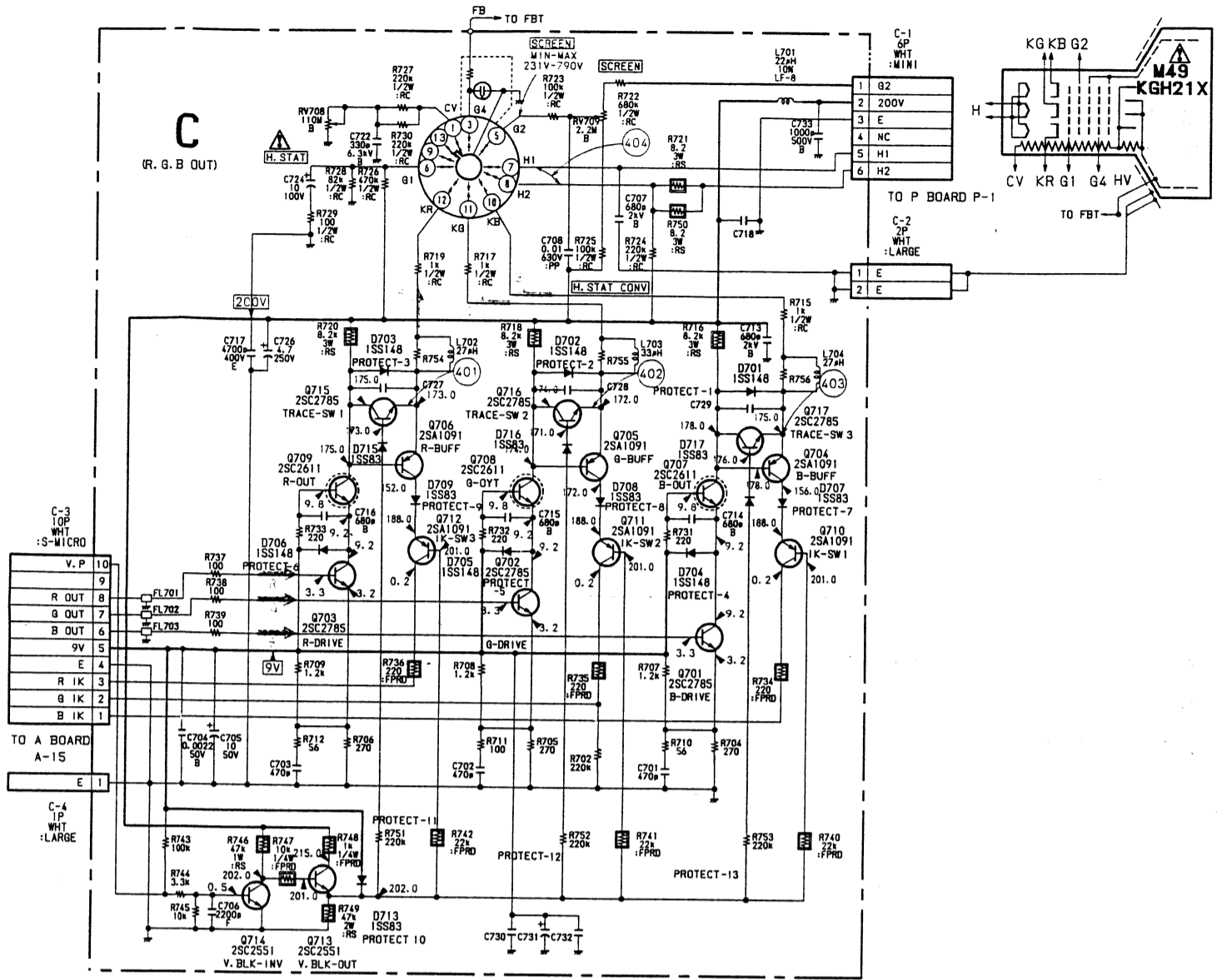
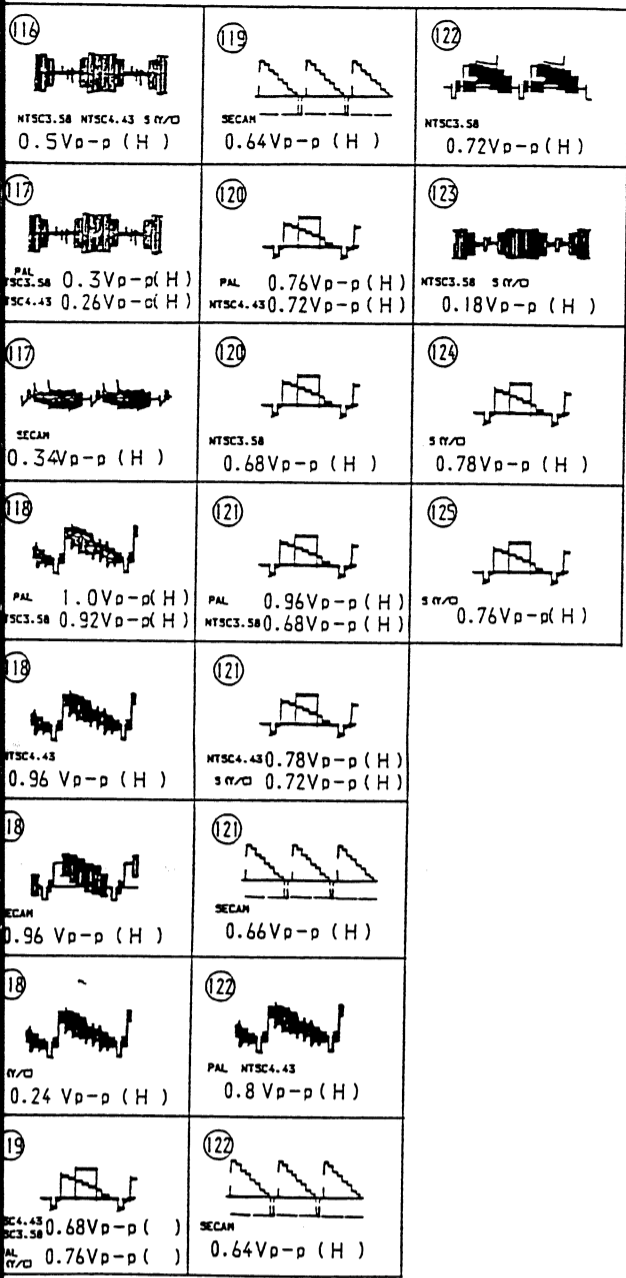
* MEASUREMENT IMPOSSIBILITY.

BA BOARD WAVEFORMS

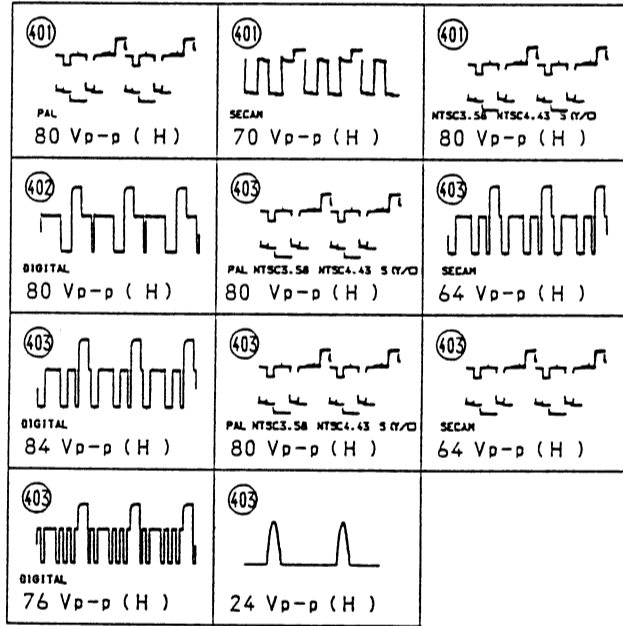


- BA-1
WHT
:BT0B-S
TO A-8
 - 1 PLS CROSS SW
 - 2 COMPOSITE BL
 - 3 H-RETRACE PL
 - 4 SYNC IN
 - 5 50/60
 - 6 SECAM-H
 - 7 R-Y (SECAM)
 - 8 B-Y (SECAM)
 - 9 GND
 - 10 4.43-H
 - 11 U (R-Y)
 - 12 V (R-Y)
 - 13 H-PLS
 - 14 GND
 - 15 BURST OUT (SHIFTED)
- BA-2
WHT
:BT0B-S
TO A-9
 - 1 BURST IN
 - 2 HUE CONT
 - 3 KILLER (H)
 - 4 GND
 - 5 FROM ACC
 - 6 GND
 - 7 TO ACC
 - 8 GND
 - 9 SC-IN
 - 10 S-SW
 - 11 Y-OUT
 - 12 GND
 - 13 SY-IN
 - 14 VCC
 - 15 COMPOSITE IN
- TO A BOARD A-8
 - TO A BOARD A-9



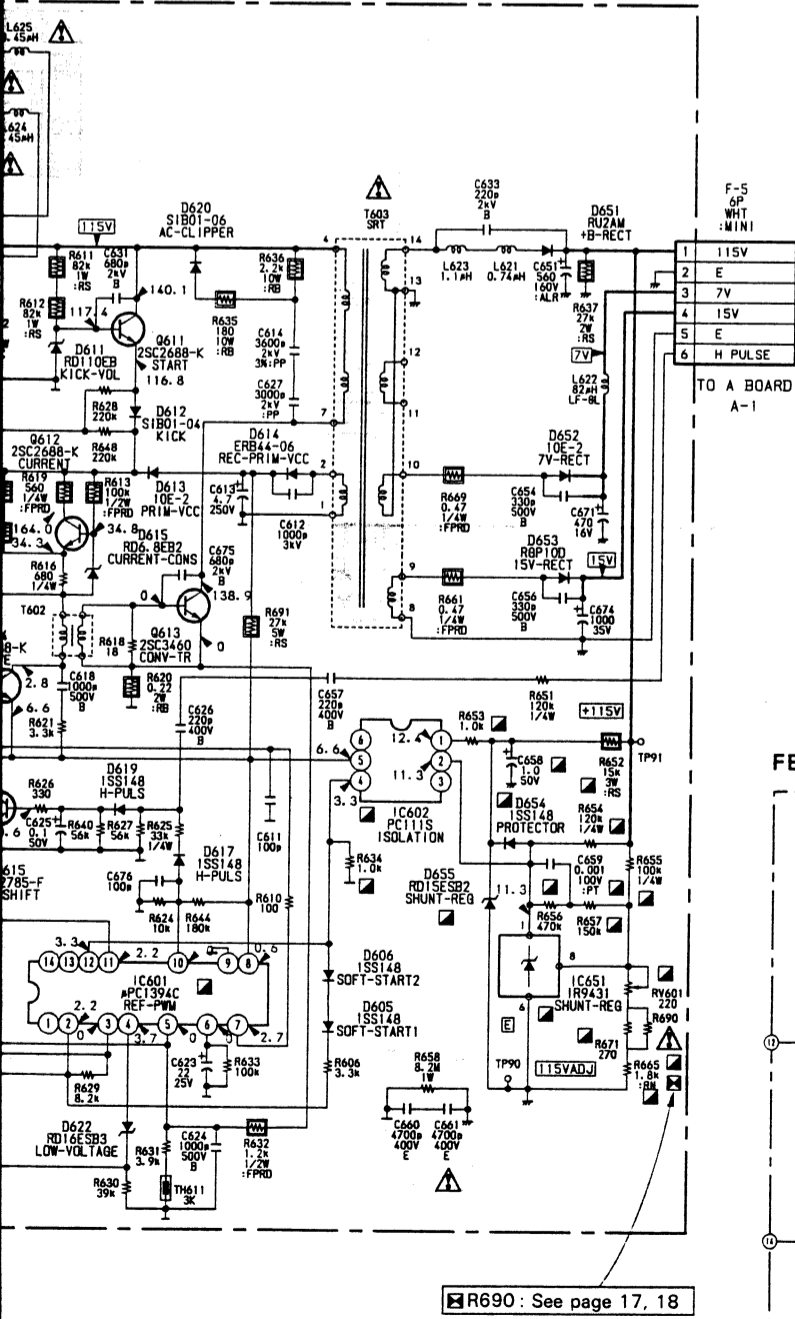


C BOARD WAVEFORMS

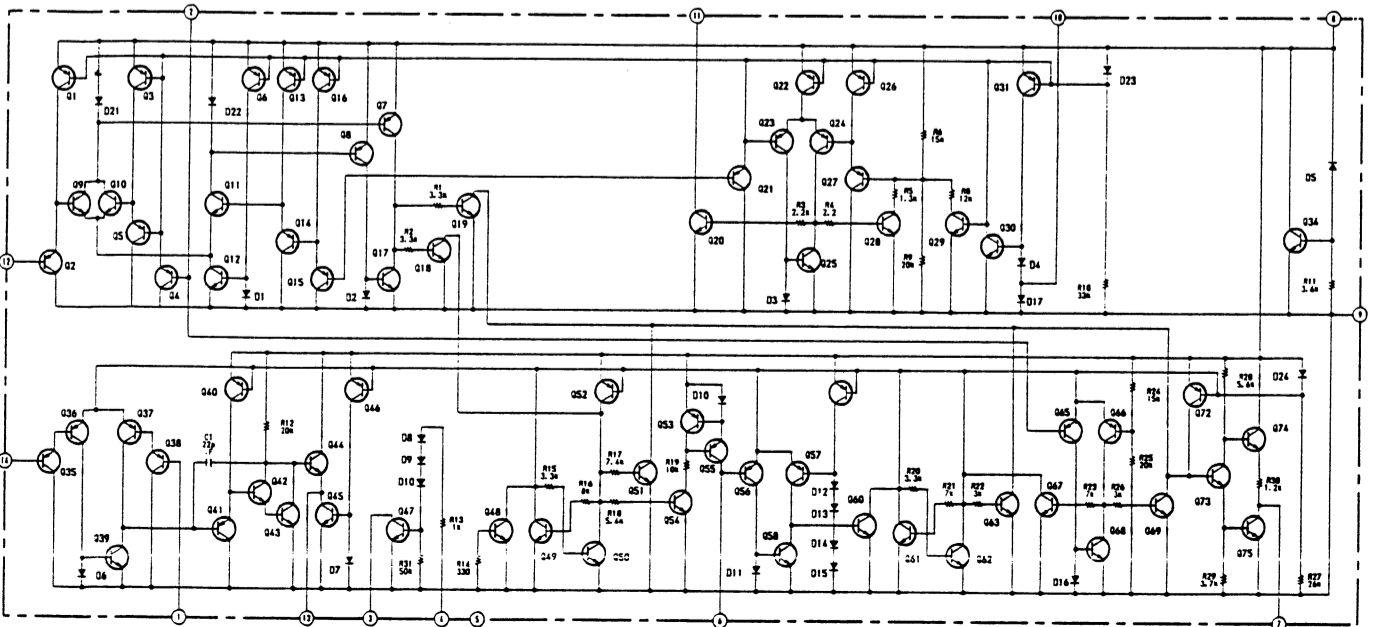


C BOARD

Q-NO.	PAL	SECAM	NTSC 3.58	NTSC 4.43	S-V/VIDEO	DIGITAL
0704	E 75	75	75	144	63	76
	B 155	158	56	144		
	B 177	277	72	65	171	179
	E 171	172	72	58	65	73
0705	C 48	45	49	38	147	150
	B 73	74	74	58	67	73
0706	E 71	254	73	39	66	76
	C 51	215	52	213	146	152
	B 173	204	75	39	68	179
0707	E 3.2	3.2	3.2	3.2	9.0	9.0
	B 1.77	177	72	65	171	179
	B 3.8	3.8	3.8	3.8	9.0	9.0
0708	C 173	74	74	58	67	73
	B 1					
0709	C 73	74	75	58	67	79
	B 1					
0710	E 90	92	38	90		
	B 203	204	201	99		
0711	E 90	90	88	90		
	B 204	204	201	99		
0712	E 190	91	88	90		
	B 204	204	201	99		
0715	E 71	122	73	58	66	76
	C 173	174	75	60	68	79
	B 171	172	73	58	66	77
	E 171	172	72	58	65	73
0716	C 173	174	74	58	67	73
	B 170	172	71	56	64	170
0717	E 175	175	75	64	69	76
	C 177	177	76	63	70	179
	B 175	175	76	63	69	77



FE BOARD IC601 μPC1394C



ⓂR690: See page 17, 18

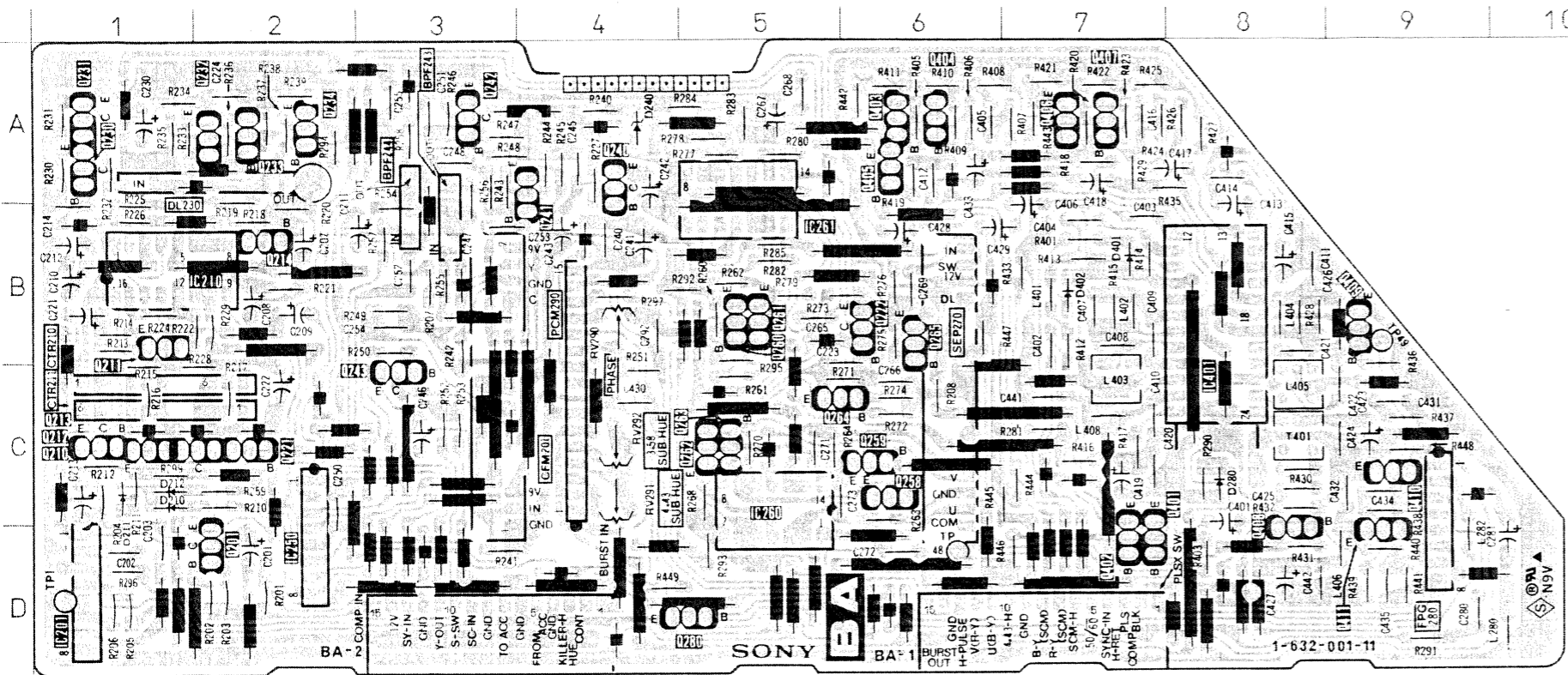
BA [CHROMA FOR 4 SYSTEM]

J [POWER SW]

P [FBT G2, 200V RECT, RELAY DRIVE, DYNAMIC FOCUS]

H [TALL LAMP DGC SWITCH TRAP SWITCH]

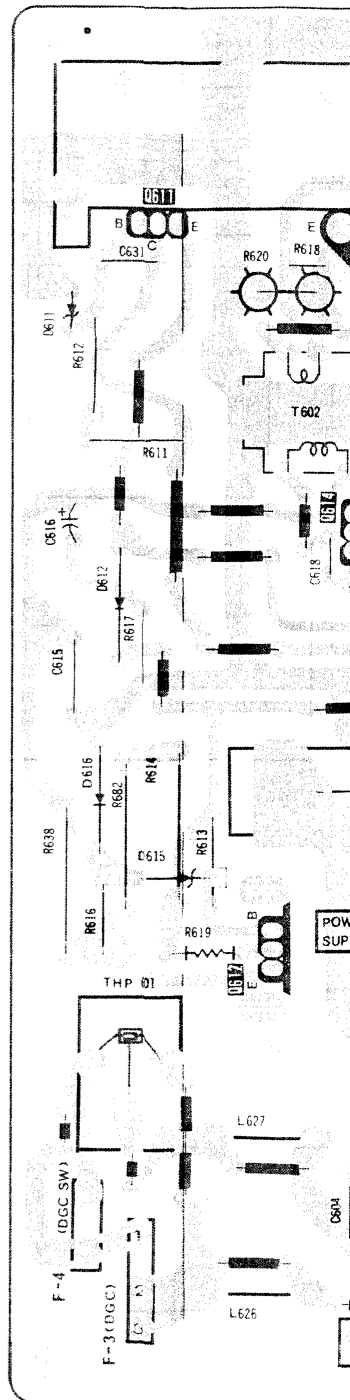
- BA Board -



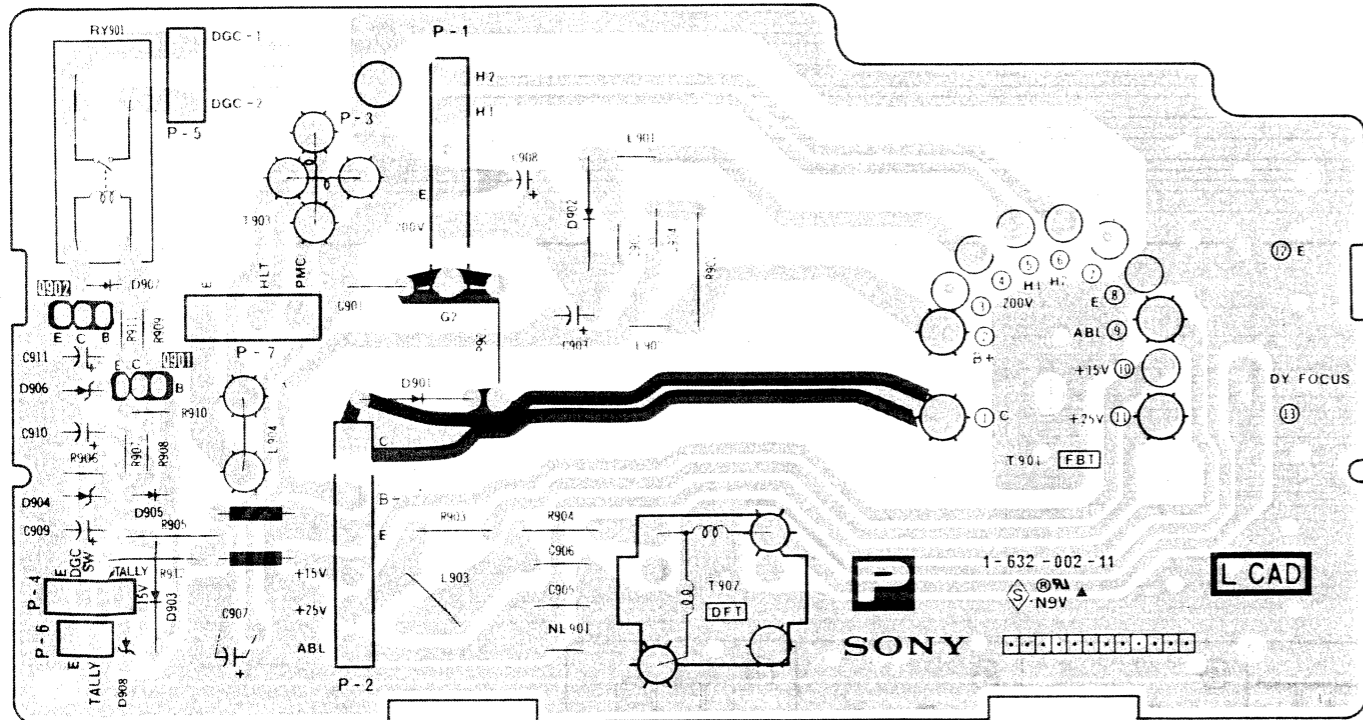
BA Board

IC		DIODE	
IC201	D-1	Q241	A-4
IC210	B-1	Q242	A-3
IC250	D-2	Q243	C-3
IC260	C-5	Q258	C-6
IC261	B-5	Q259	C-6
IC401	B-8	Q260	B-5
		Q261	B-5
		Q262	C-5
		Q263	C-5
		Q264	C-5
		Q265	B-6
		Q280	D-5
		Q401	D-7
		Q402	D-7
		Q403	A-6
		Q404	A-6
		Q405	A-6
		Q406	A-7
		Q407	A-7
		Q408	D-8
		Q409	B-9
		Q410	C-9
		Q411	D-9
TRANSISTOR		VARIABLE RESISTOR	
Q201	D-2	RV290	B-4
Q210	C-1	RV291	C-4
Q211	B-1	RV292	C-4
Q212	C-1		
Q213	C-1		
Q214	B-2		
Q221	C-2		
Q222	B-6		
Q230	A-1		
Q231	A-1		
Q232	A-2		
Q233	A-2		
Q234	A-2		

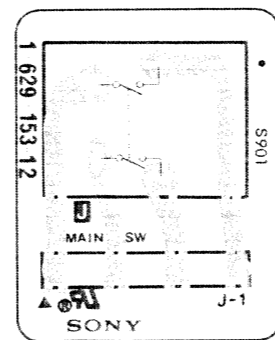
- FE Board -



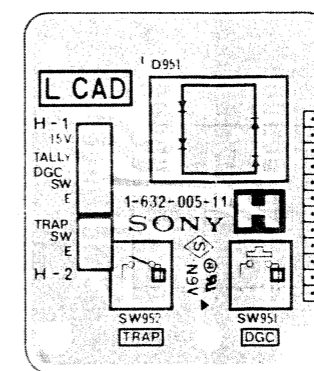
- P Board -



- J Board -



- H Board -

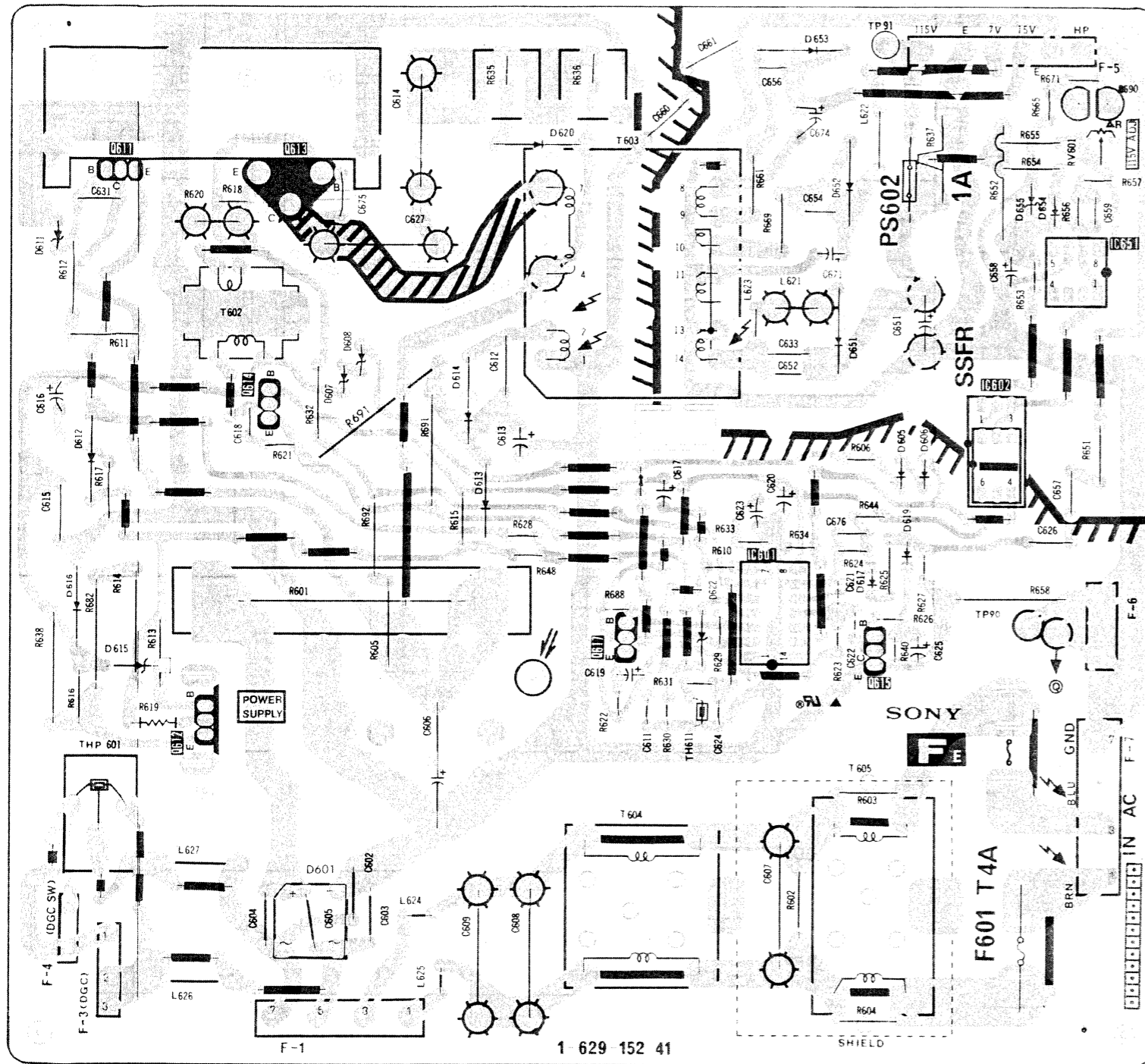


FE [POWER]

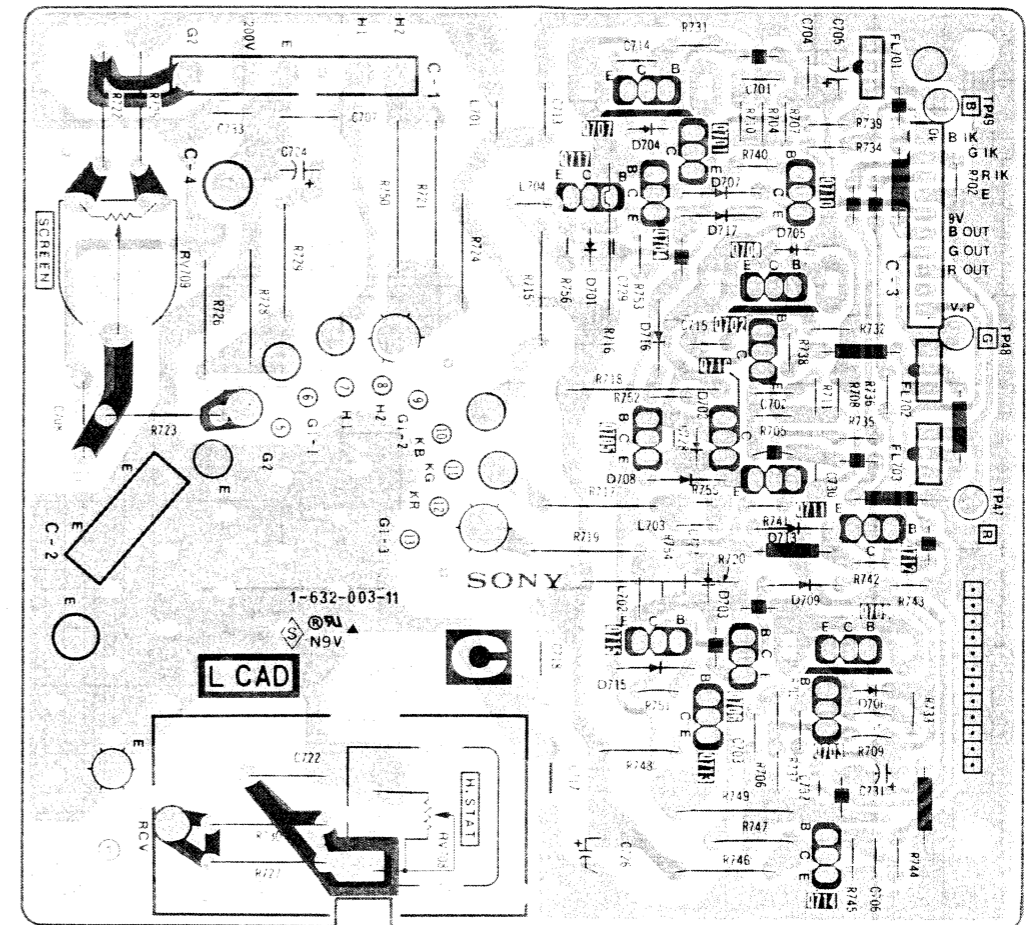
C [R-G-B OUT]

V [WHITE BALANCE]

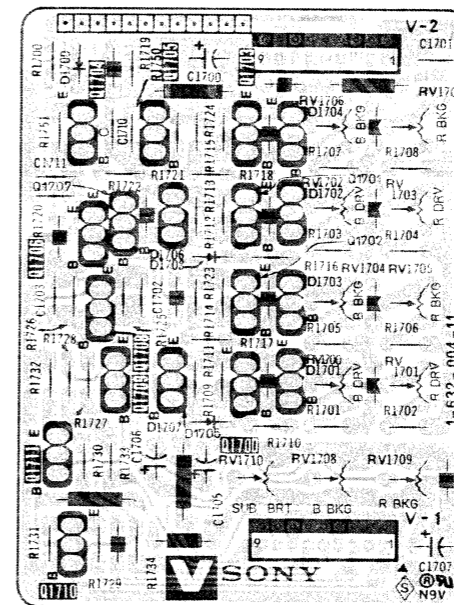
- FE Board -



- C Board -



- V Board -

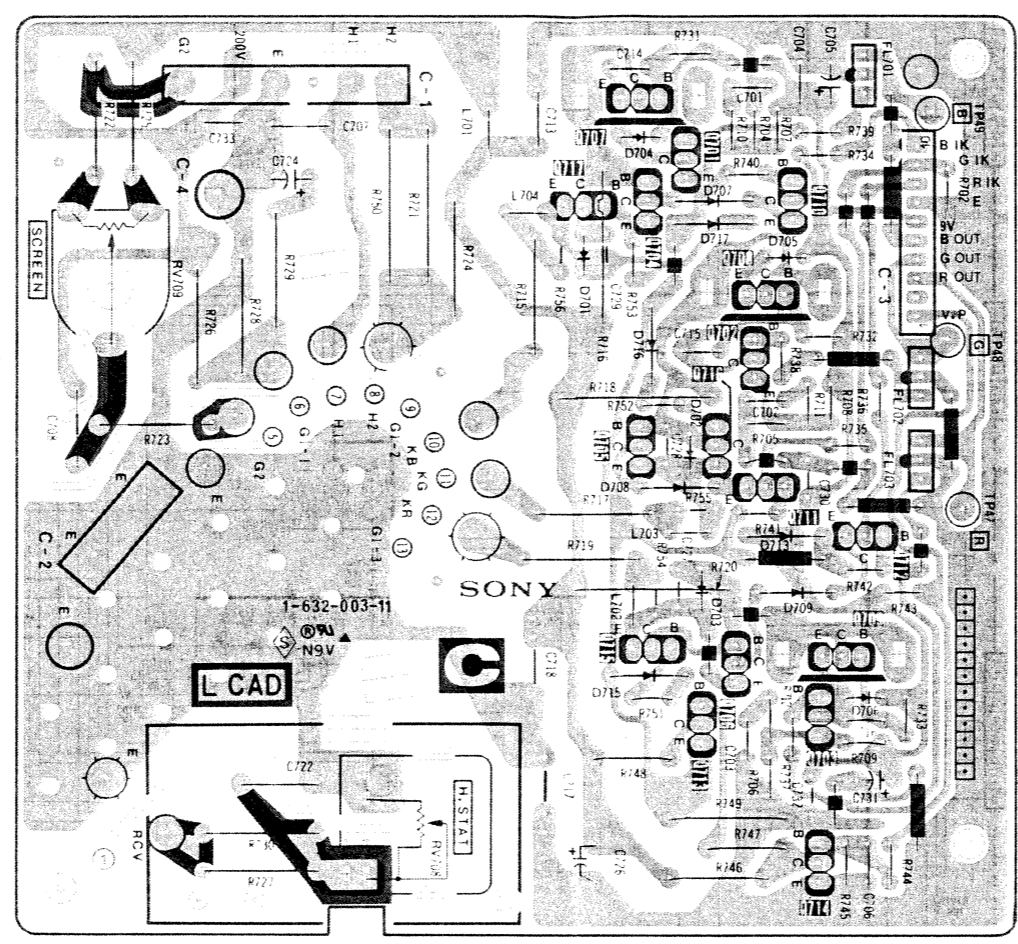


FE [POWER]

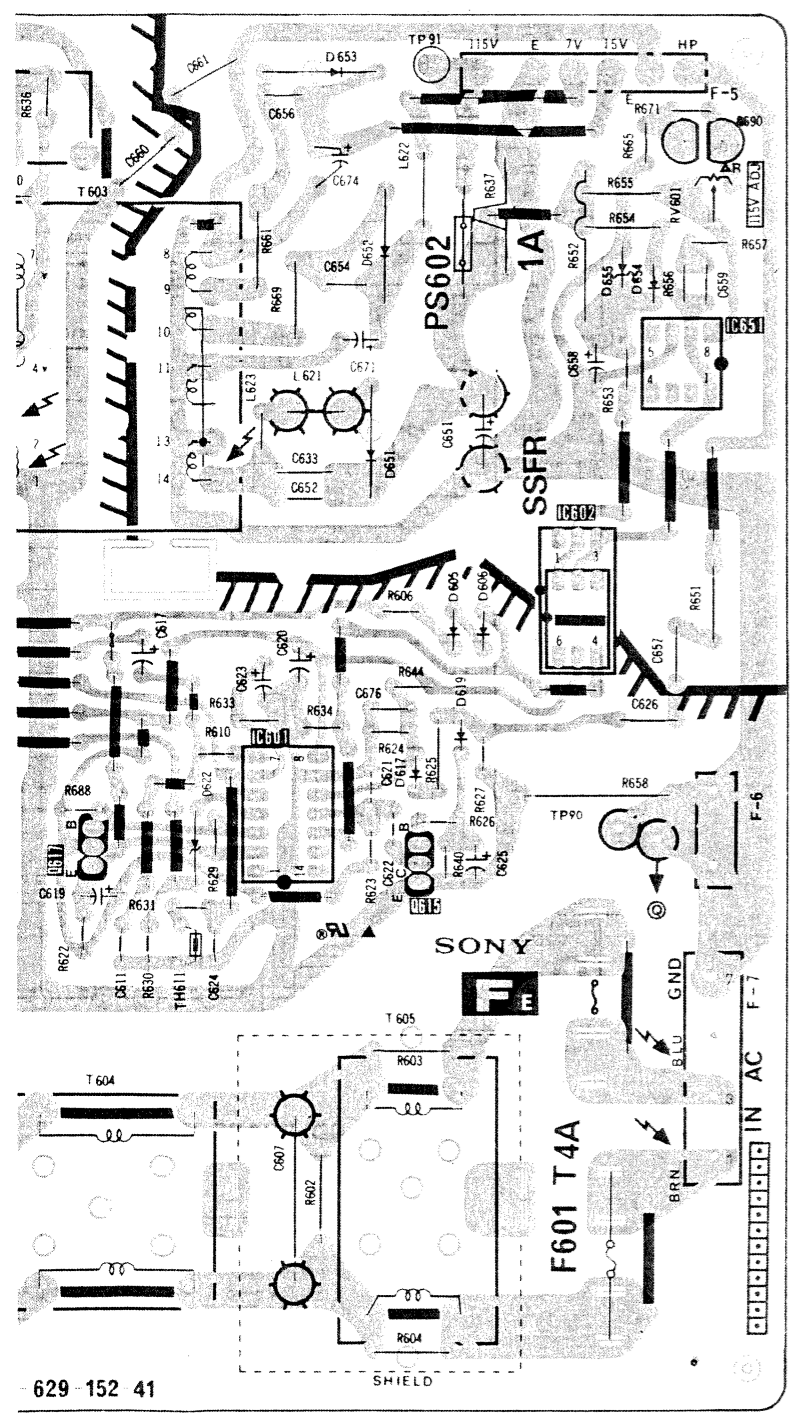
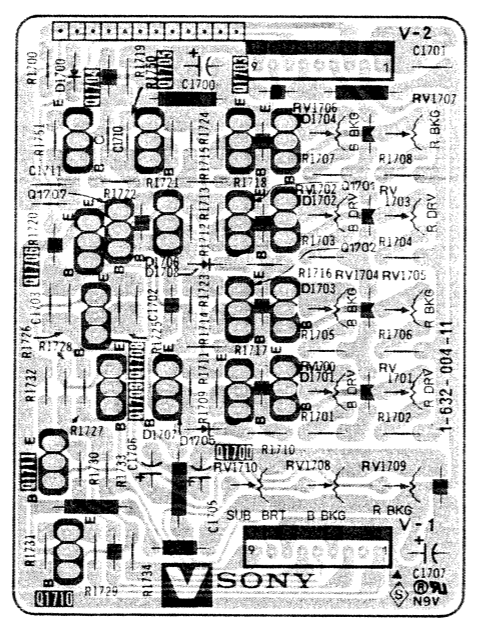
C [R-G-B OUT]

V [WHITE BALANCE]

- C Board -



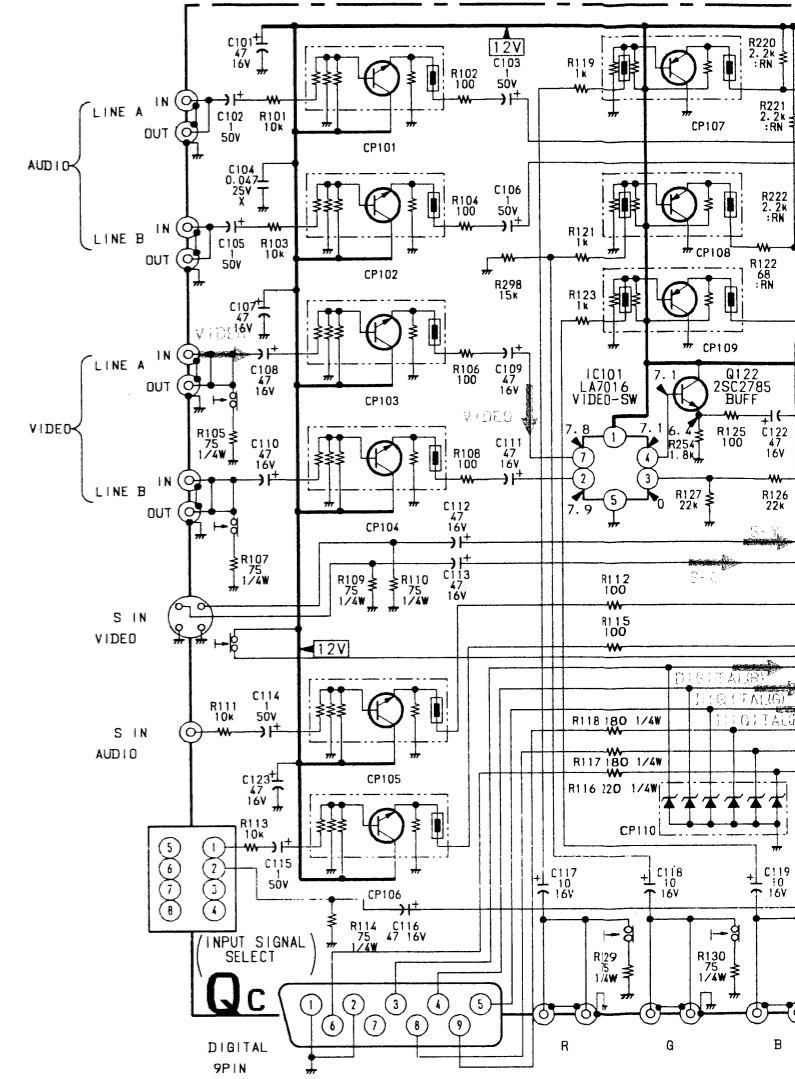
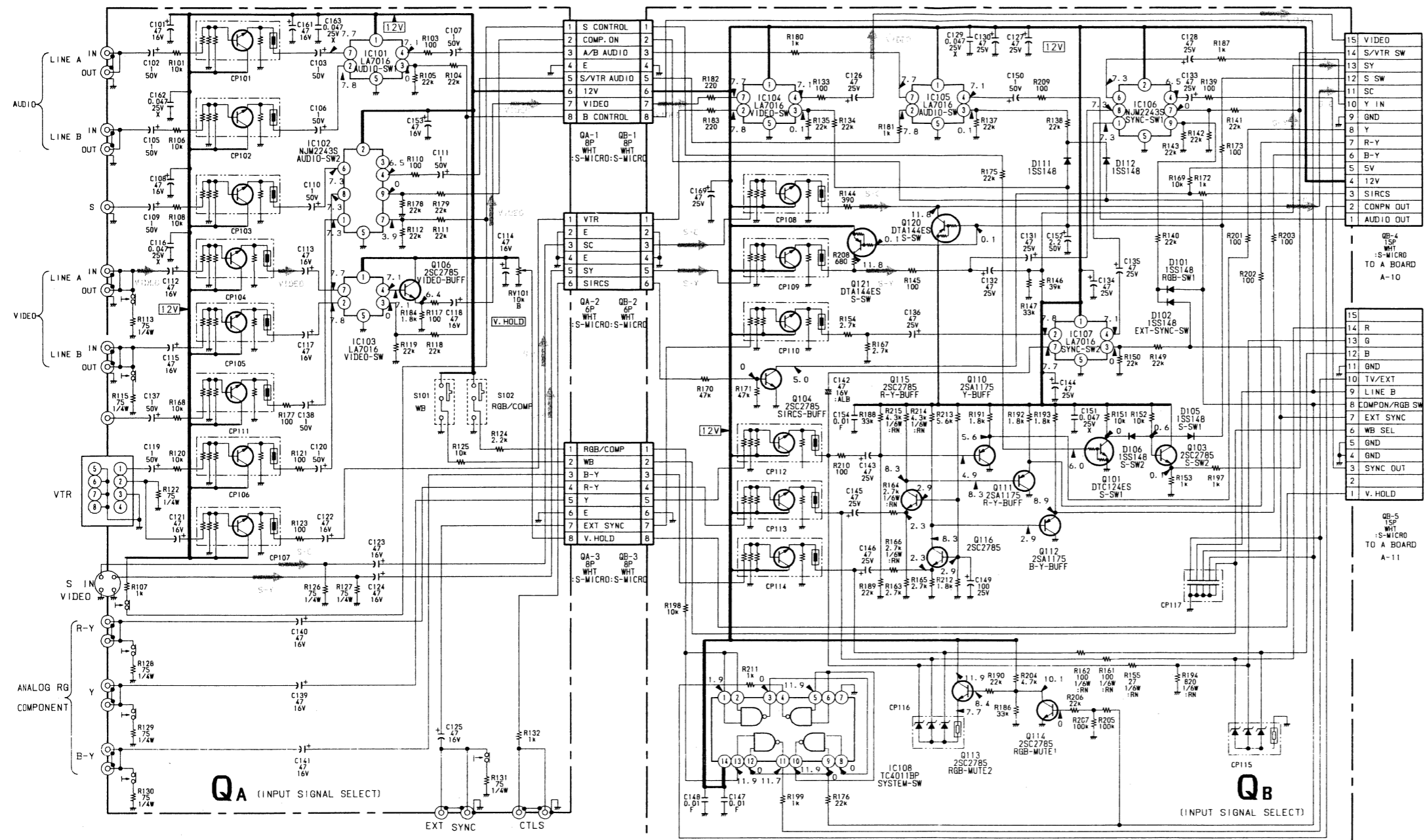
- V Board -



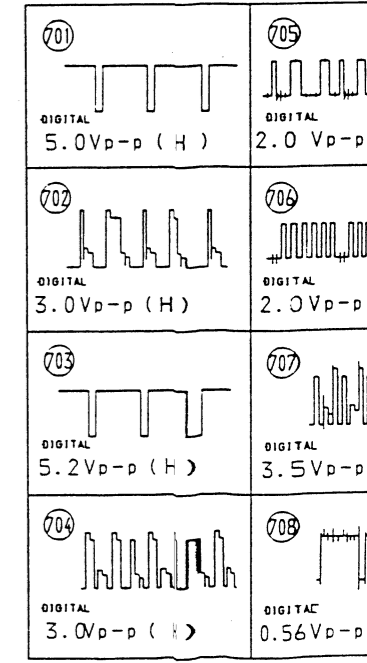
(QA, QB Board: PVM-2044QM)

(QC, QD, QE Board: PVM-2042QM)

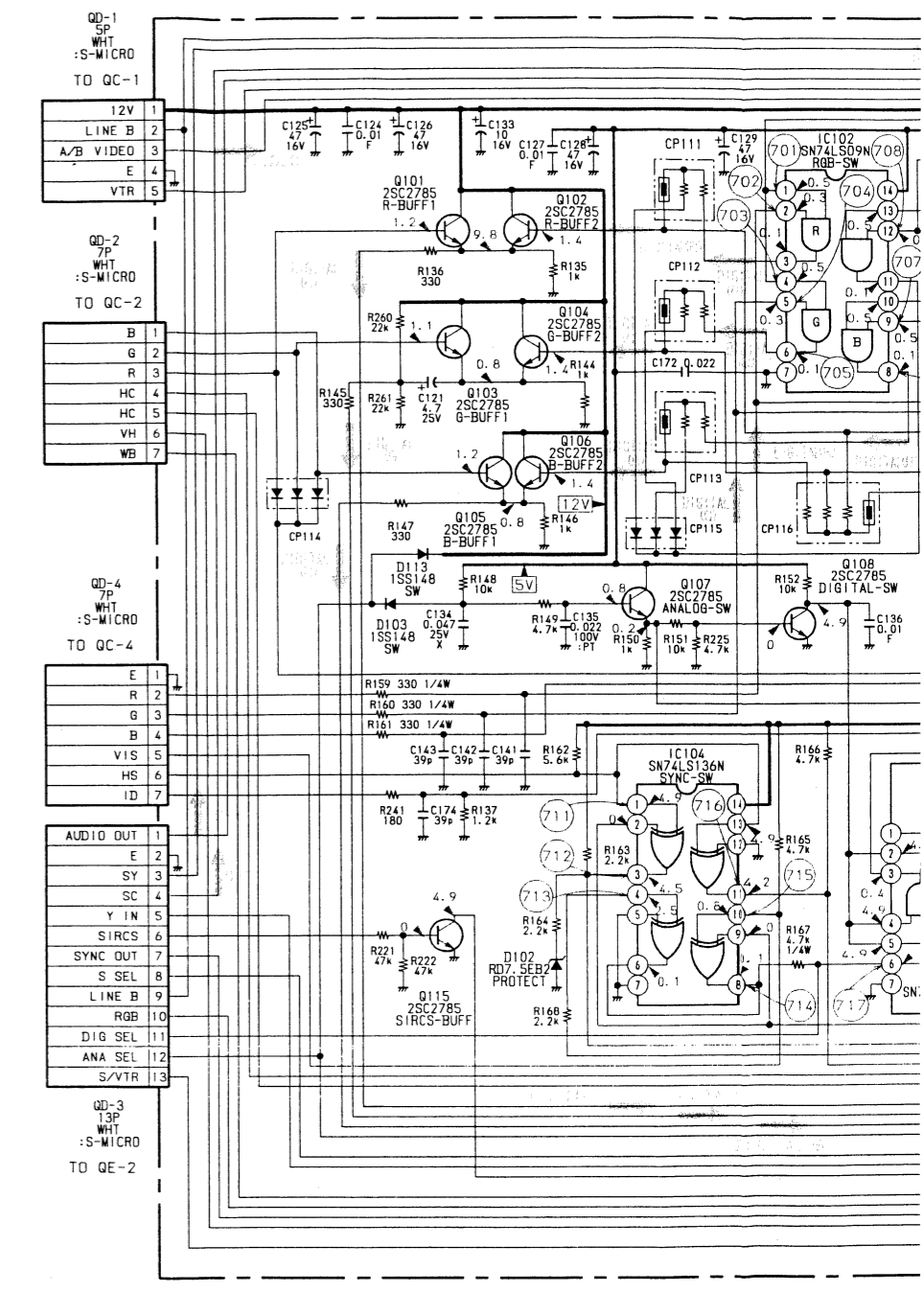
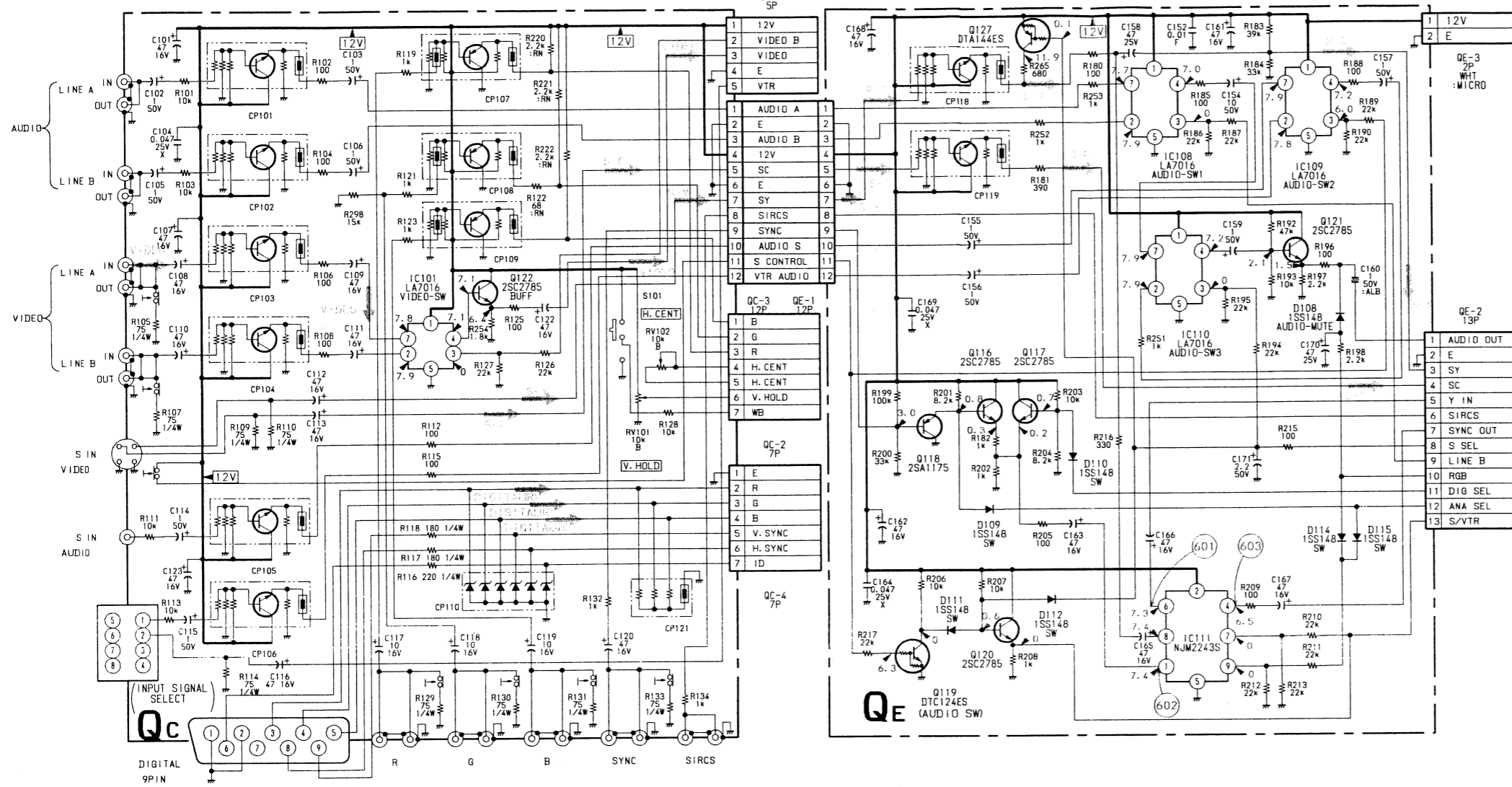
A
B
C
D
E
F
G
H
I
J



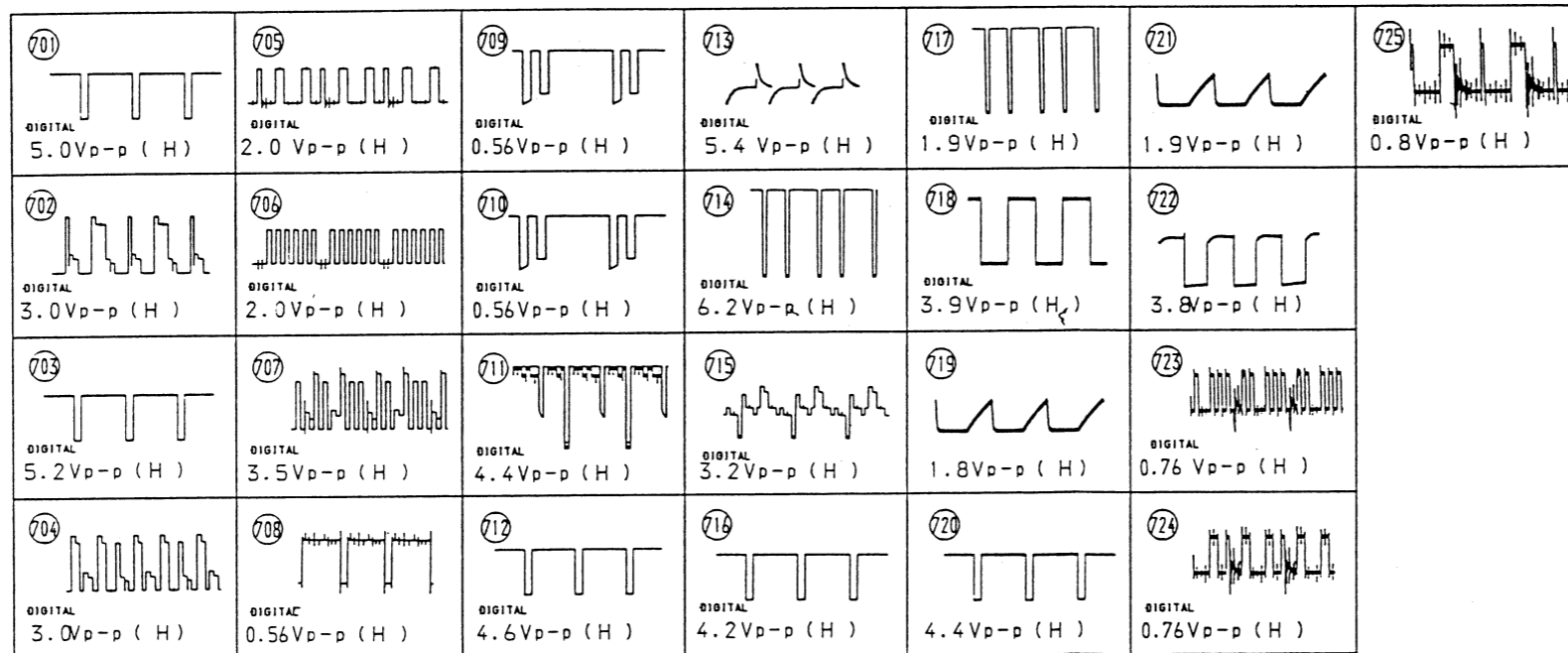
QD BOARD WAVEFORMS



(QC, QD, QE Board: PVM-2042QM)



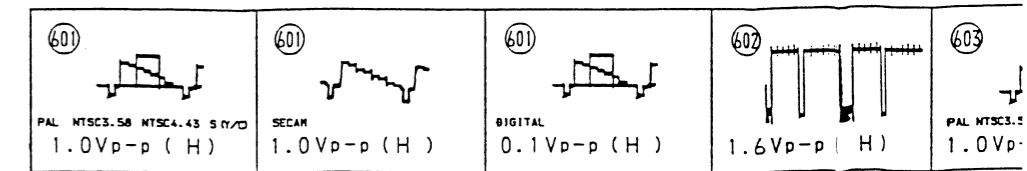
QD BOARD WAVEFORMS

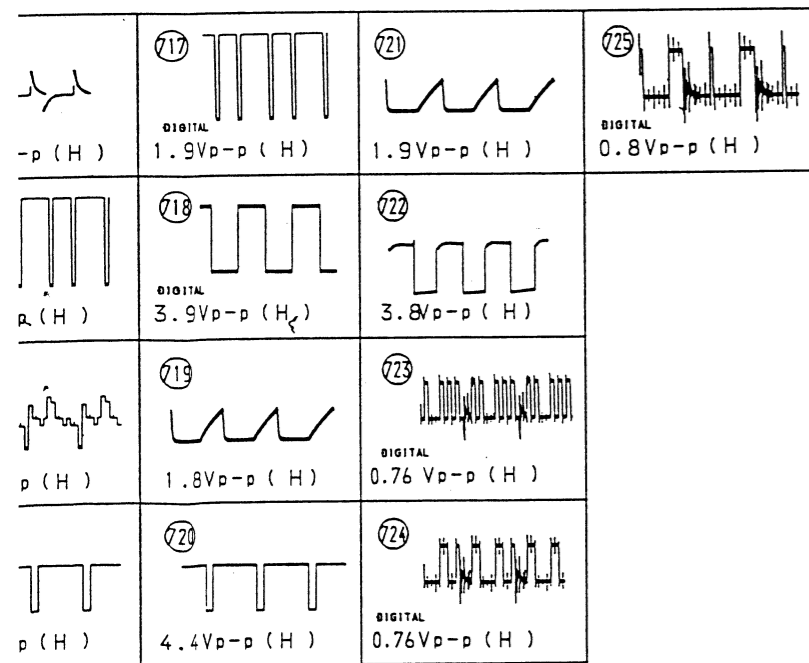
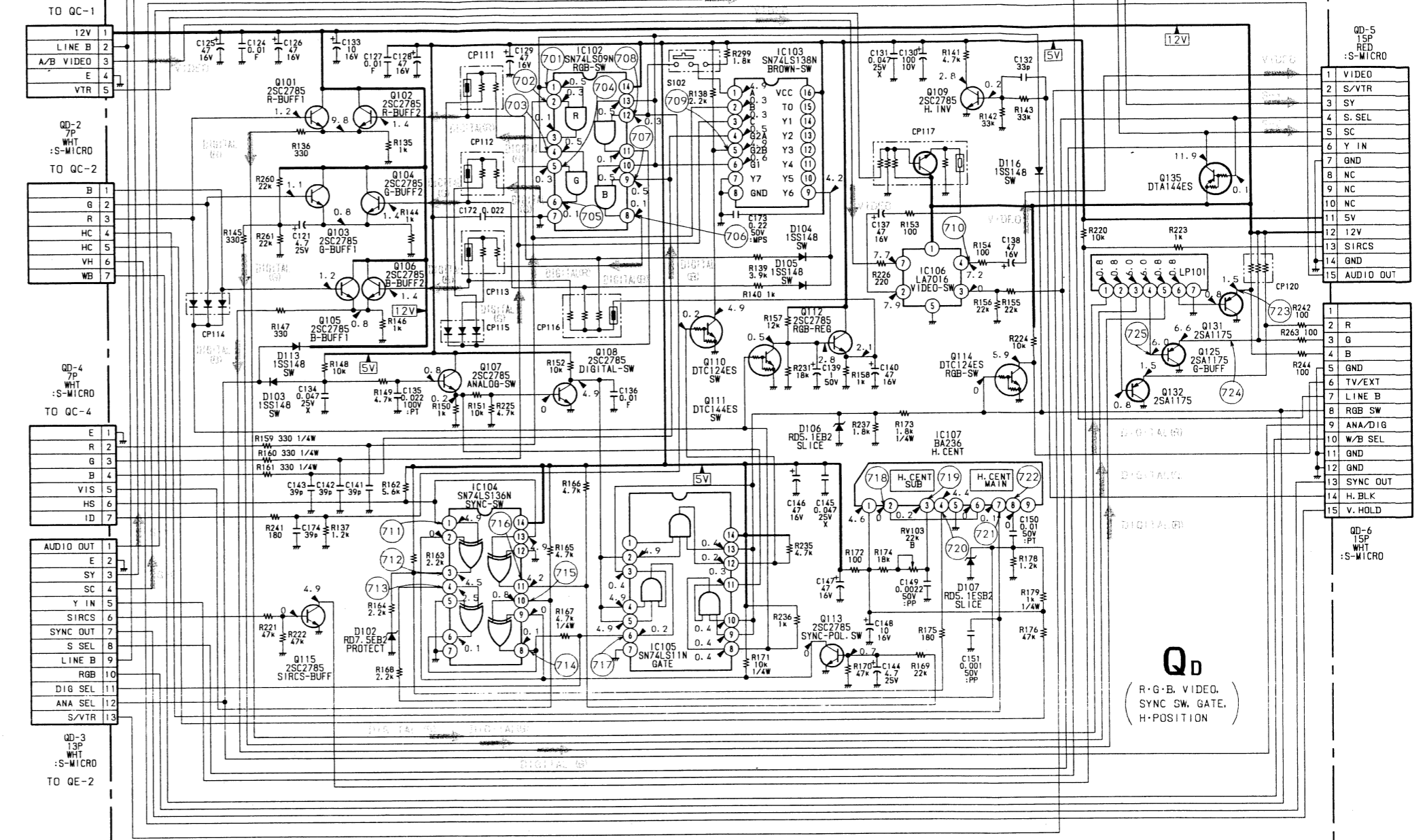
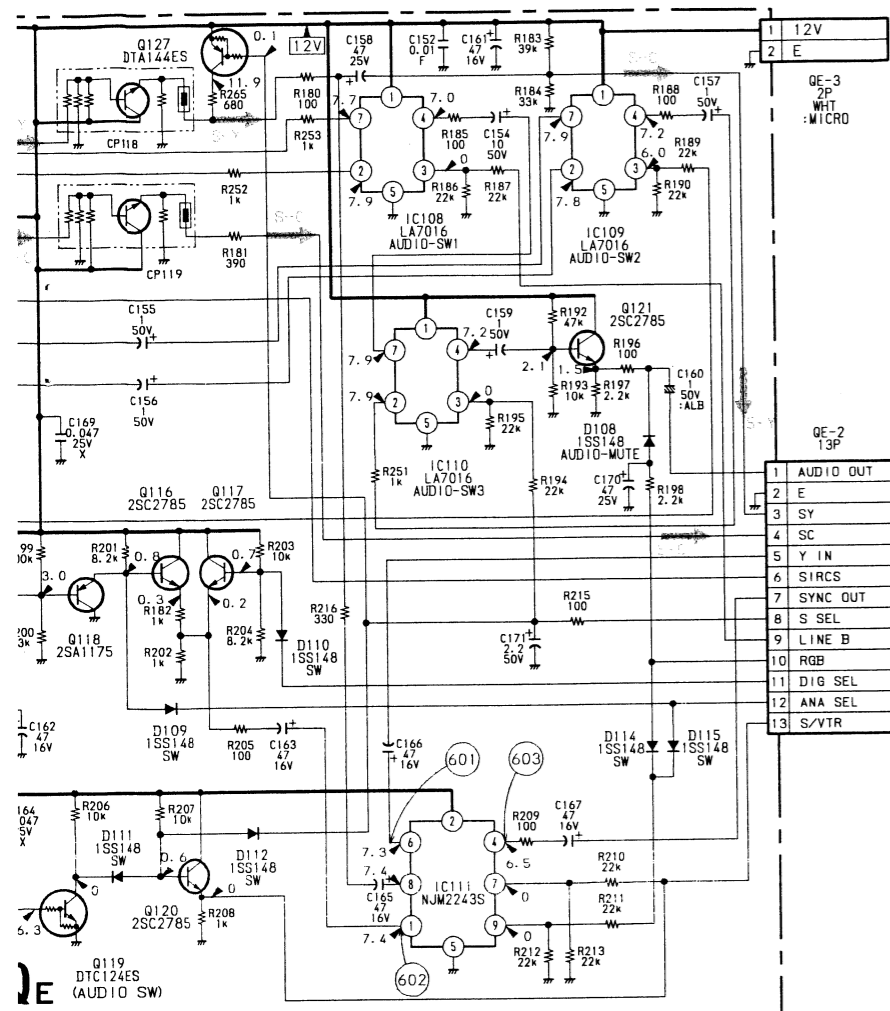


QD BOARD

IC NO.	PIN NO.	PAL	SECAM	NTSC		S-VIDEO	DIGITAL
				3.58	4.43		
IC104	(1)	4.8	4.8	4.9	4.8	4.4	4.2
	(2)	4.4	4.4	4.5	4.4	4.1	4.2
	(3)	0.1	0.1	0.1	0.1	0.2	0.1
	(4)	0.8	0.8	0.8	0.8	3.2	2.4
IC105	(1)	4.1	4.1	4.2	4.1	3.8	3.9
	(2)	4.8	4.8	4.9	4.8	4.4	4.1
	(3)	0.4	0.4	0.4	0.4	0.2	0.5
	(4)	0.2	0.2	0.2	0.2	0.2	0.8
IC106	(1)	0.4	0.4	0.4	0.4	0.2	0.5
	(2)	0.4	0.4	0.4	0.4	0.2	0.5
	(3)	0	0	0	0	1.8	1.8
	(4)	0	0	0	0	1.8	1.8
IC107	(1)	5.2	5.2	5.2	5.2	4.9	4.9
	(2)	4.4	4.4	4.4	4.4	4.1	4.1
	(3)	0.1	0.1	0.1	0.1	0.6	0.6
	(4)	0	0	0	0	1.6	1.6

QE BOARD WAVEFORMS



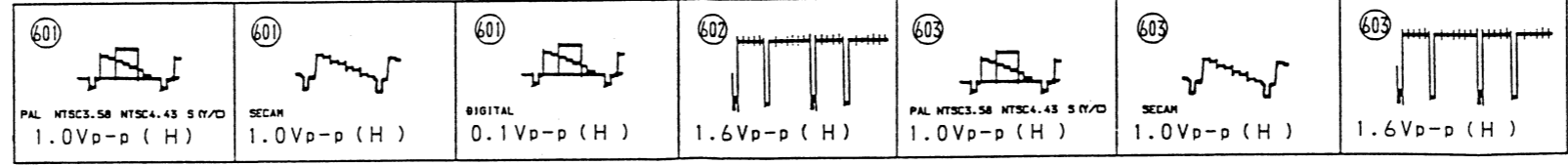


QD BOARD

IC-NO.	PIN-NO.	PAL	SECAM	NTSC 3.58	NTSC 4.43	S-VIDEO	DIGITAL
IC104	(1)	4.8	4.8	4.9	4.8	4.4	4.2
	(2)	4.4	4.4	4.5	4.4	4.1	4.2
	(3)	0.1	0.1	0.1	0.1	3.2	4.1
	(4)	0.8	0.8	0.8	0.8	3.2	2.4
IC105	(1)	4.1	4.1	4.2	4.1	3.8	3.9
	(2)	4.8	4.8	4.9	4.8	4.4	4.1
	(3)	0.4	0.4	0.4	0.4	0.4	4.5
	(4)	0.2	0.2	0.2	0.2	0.2	4.6
IC106	(1)	0.4	0.4	0.4	0.4	0.4	4.5
	(2)	0.4	0.4	0.4	0.4	0.4	4.5
	(3)	0.4	0.4	0.4	0.4	0.4	4.5
	(4)	0.4	0.4	0.4	0.4	0.4	4.5
IC107	(1)	0.0	0.0	0.0	0.0	5.8	0.1
	(2)	0.0	0.0	0.0	0.0	1.9	1.8
	(3)	0.2	0.2	0.2	0.2	0.7	0.7
	(4)	4.4	4.4	4.4	4.4	4.1	4.1

Q-NO.	PAL	SECAM	NTSC 3.58	NTSC 4.43	S-VIDEO	DIGITAL
Q105	E	0.8	0.8	0.8	0.8	1.0
	B	1.1	1.1	1.2	1.1	1.2
	F	0.8	0.8	0.8	0.8	1.0
	C					
Q106	E	1.4	1.4	1.4	1.4	1.6
	B					
	F					
	C					
Q109	E	0.5	0.5	2.8	0.5	4.2
	B					
	F					
	C					
Q110	E	0.4	0.4	0.2	0.4	0.5
	B					
	F					
	C					

QE BOARD WAVEFORMS



QA INPUT SIGNAL SELECT

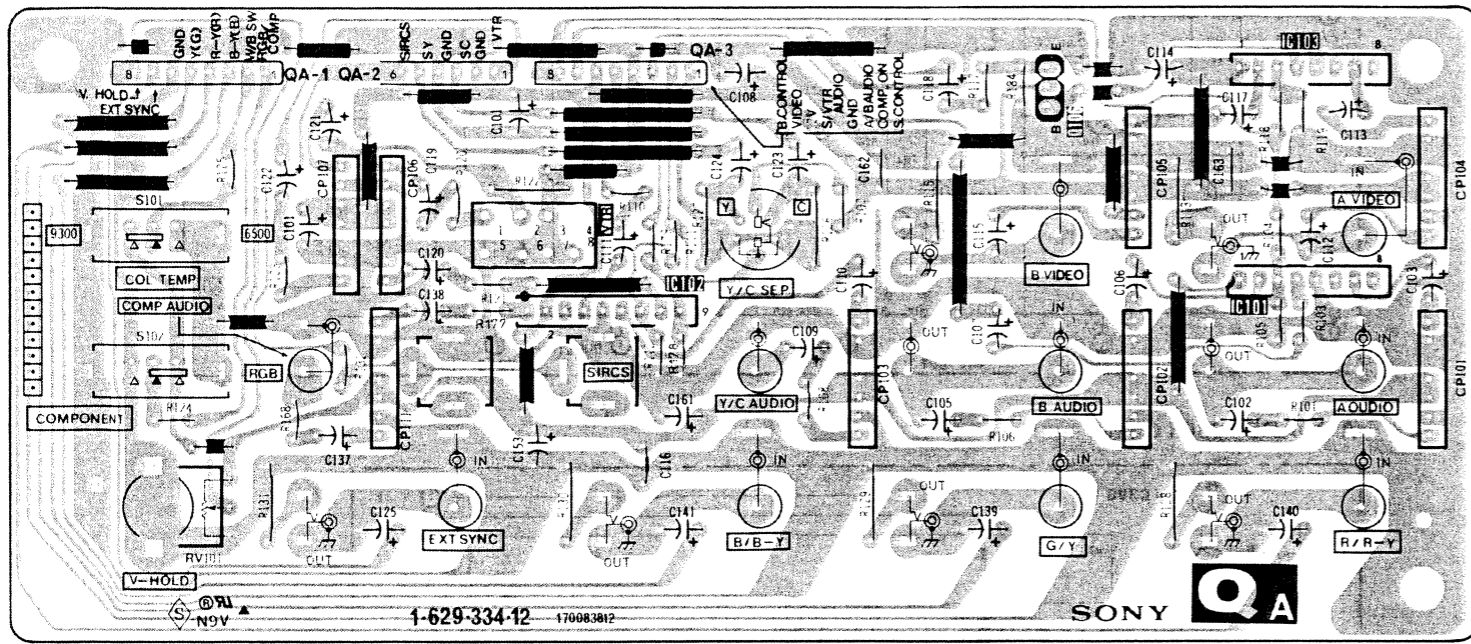
QB INPUT SIGNAL SELECT, SYSTEM SW

QC INPUT SIGNAL SELECT

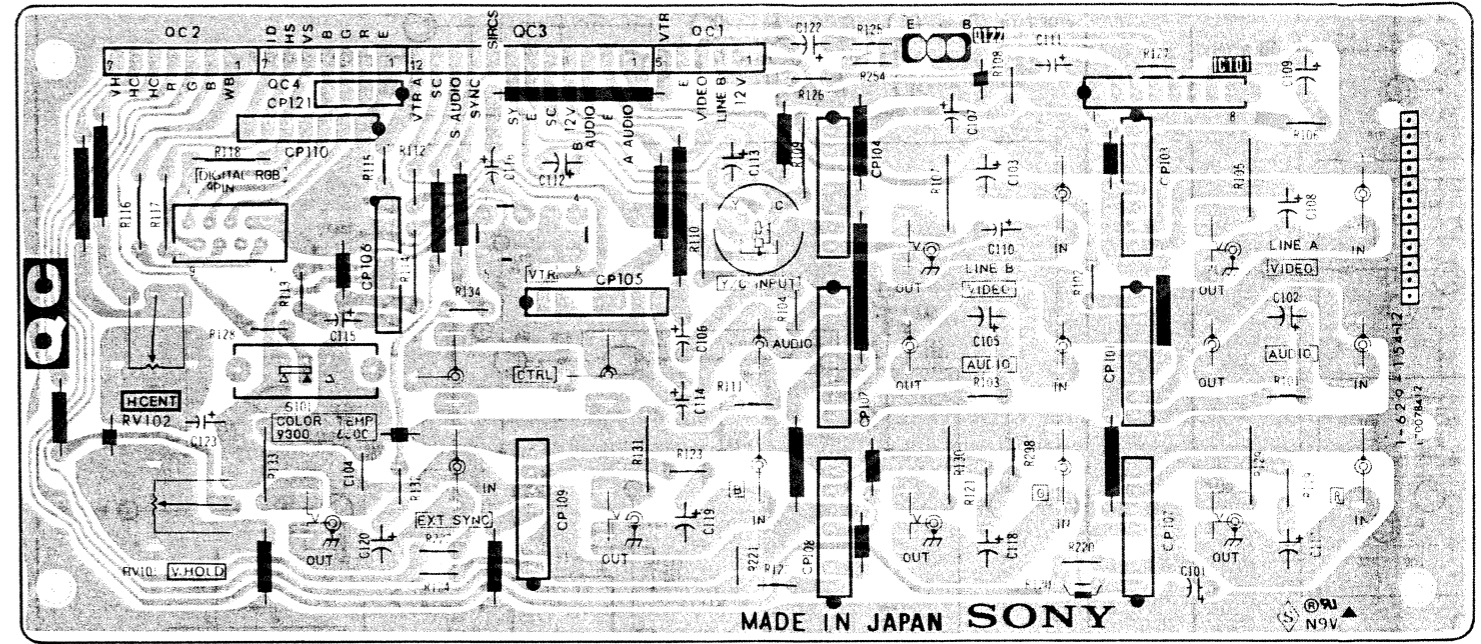
QD R-G-B, VIDEO, SYNC SW GATE, H-POSITION

QE AUDIO SW

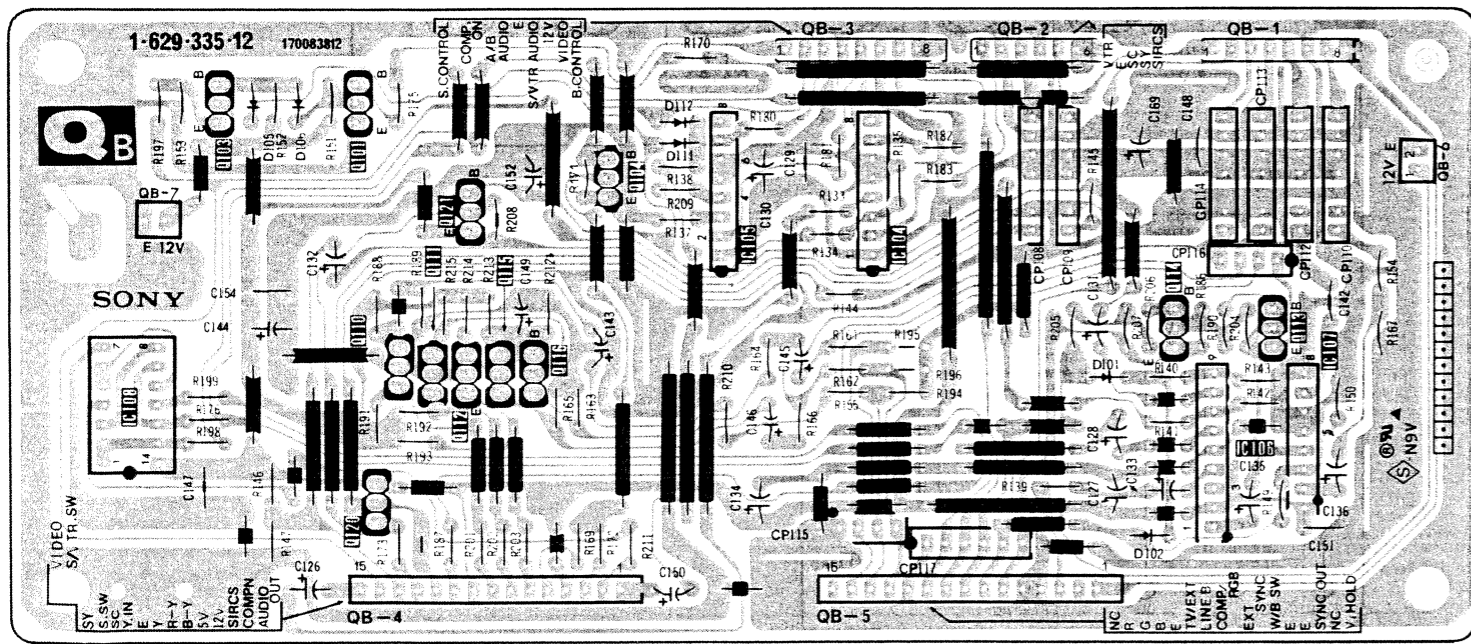
- QA Board - (PVM-2044QM)



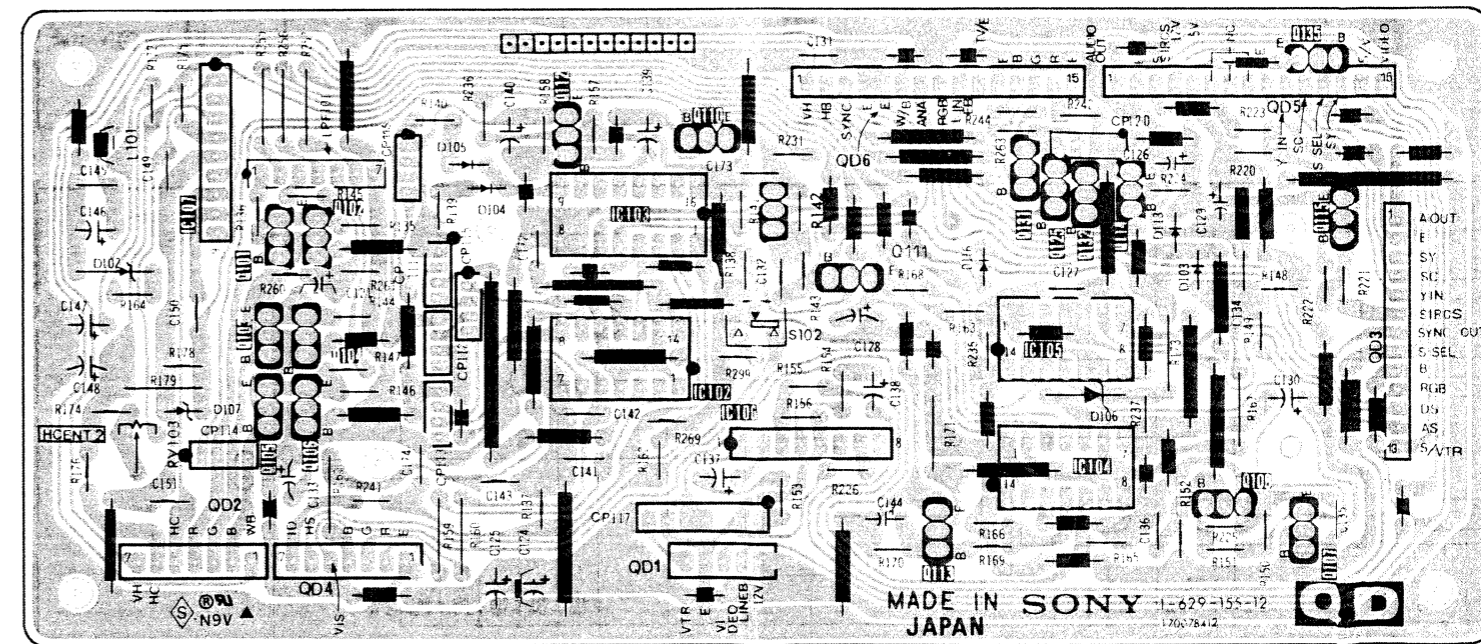
- QC Board - (PVM-2042QM)



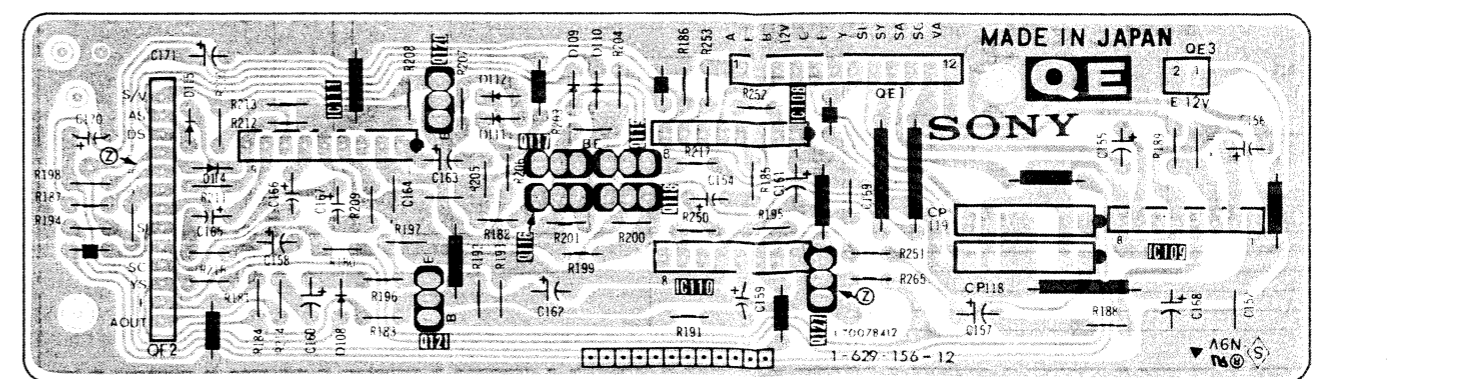
- QB Board - (PVM-2044QM)



- QD Board - (PVM-2042QM)

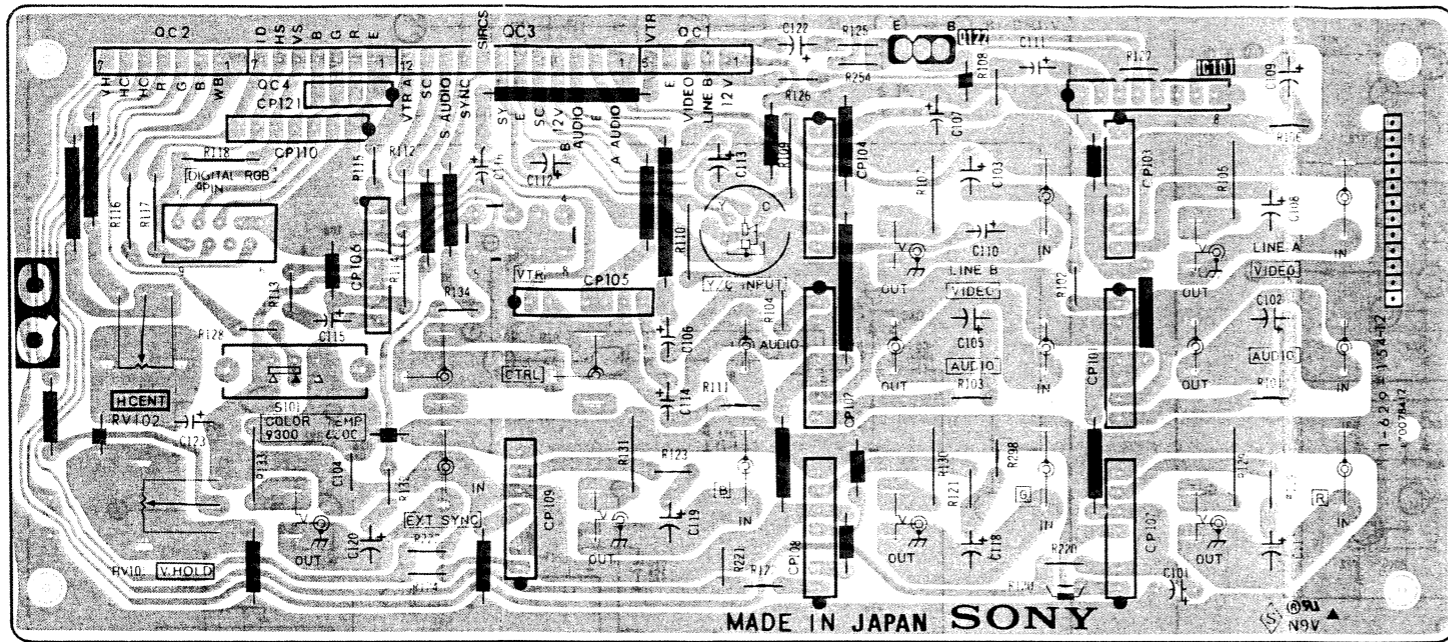
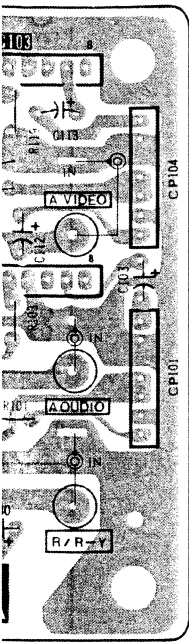


- QE Board - (PVM-2042QM)

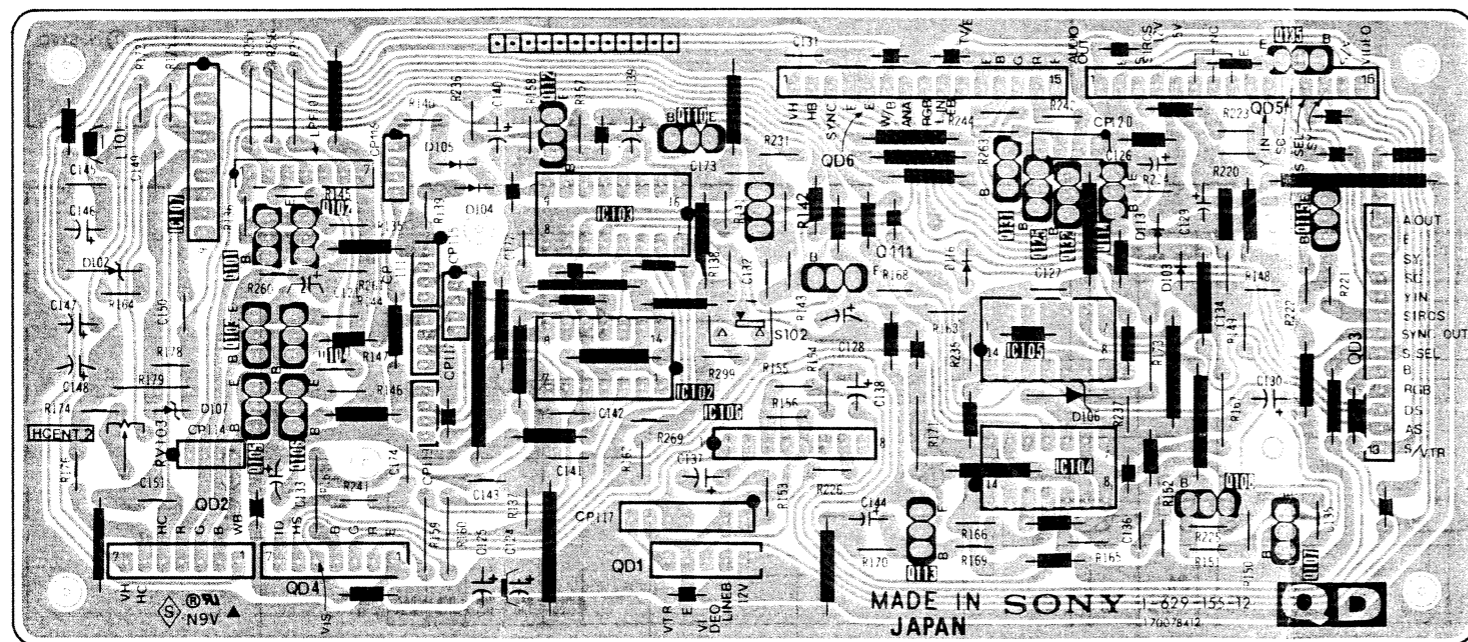
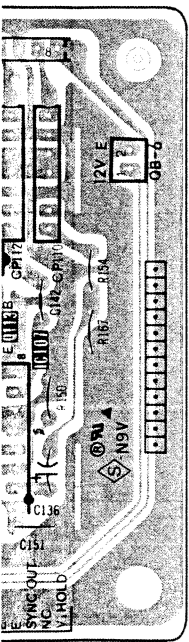


SELECT, **QC** [INPUT SIGNAL SELECT] **QD** [R-G-B, VIDEO, SYNC SW GATE, H-POSITION] **QE** [AUDIO SW]

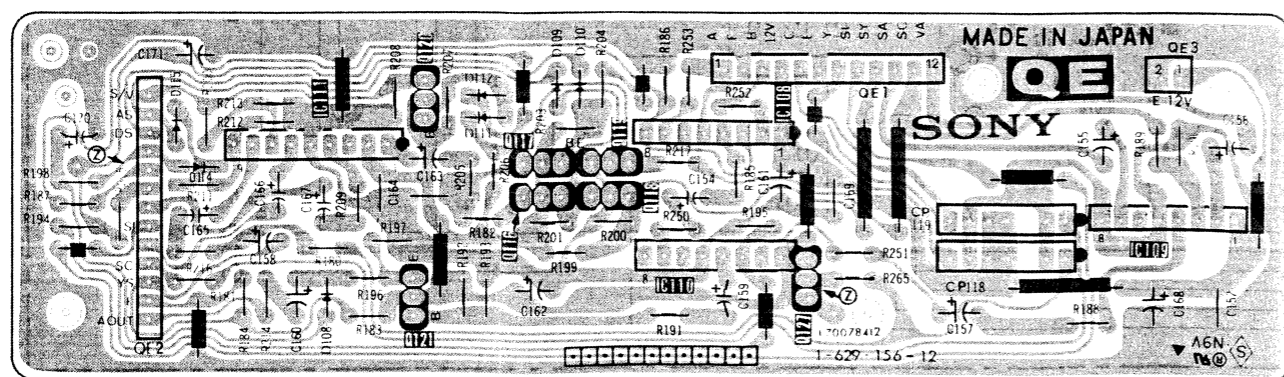
- QC Board - (RVM-2042QM)



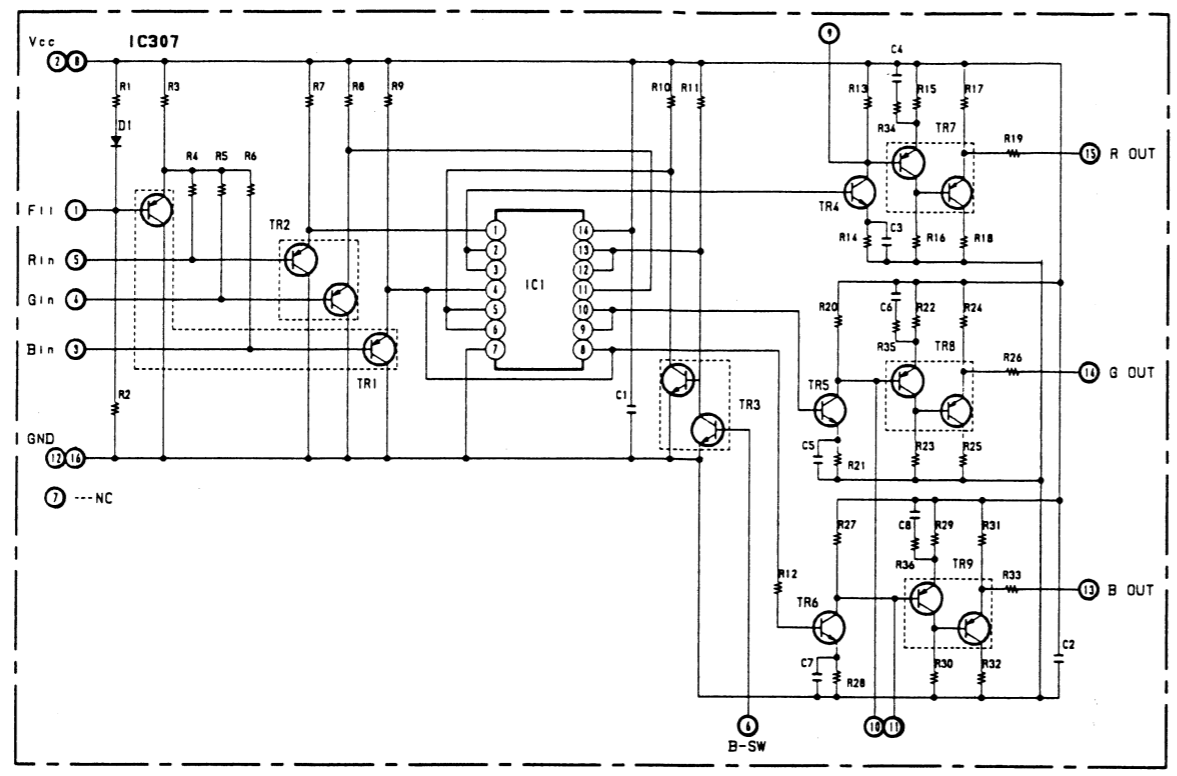
- QD Board - (PVM-2042QM)



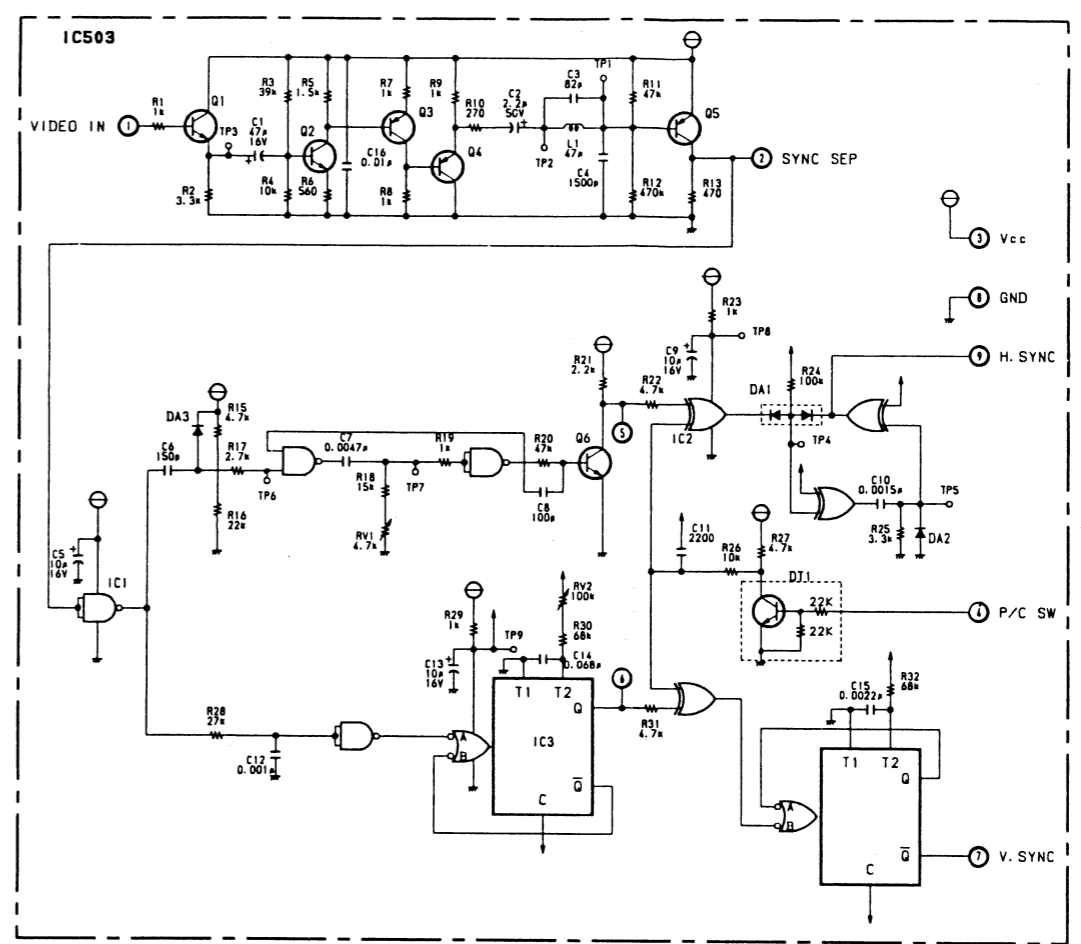
- QE Board - (PVM-2042QM)



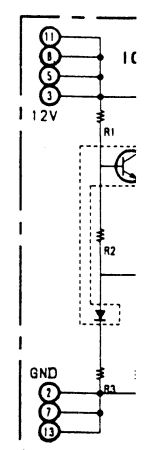
A BOARD IC307 BOM-1



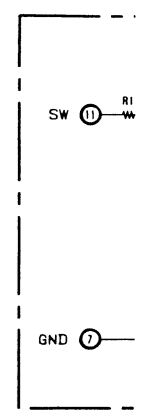
A BOARD IC503 BX7574



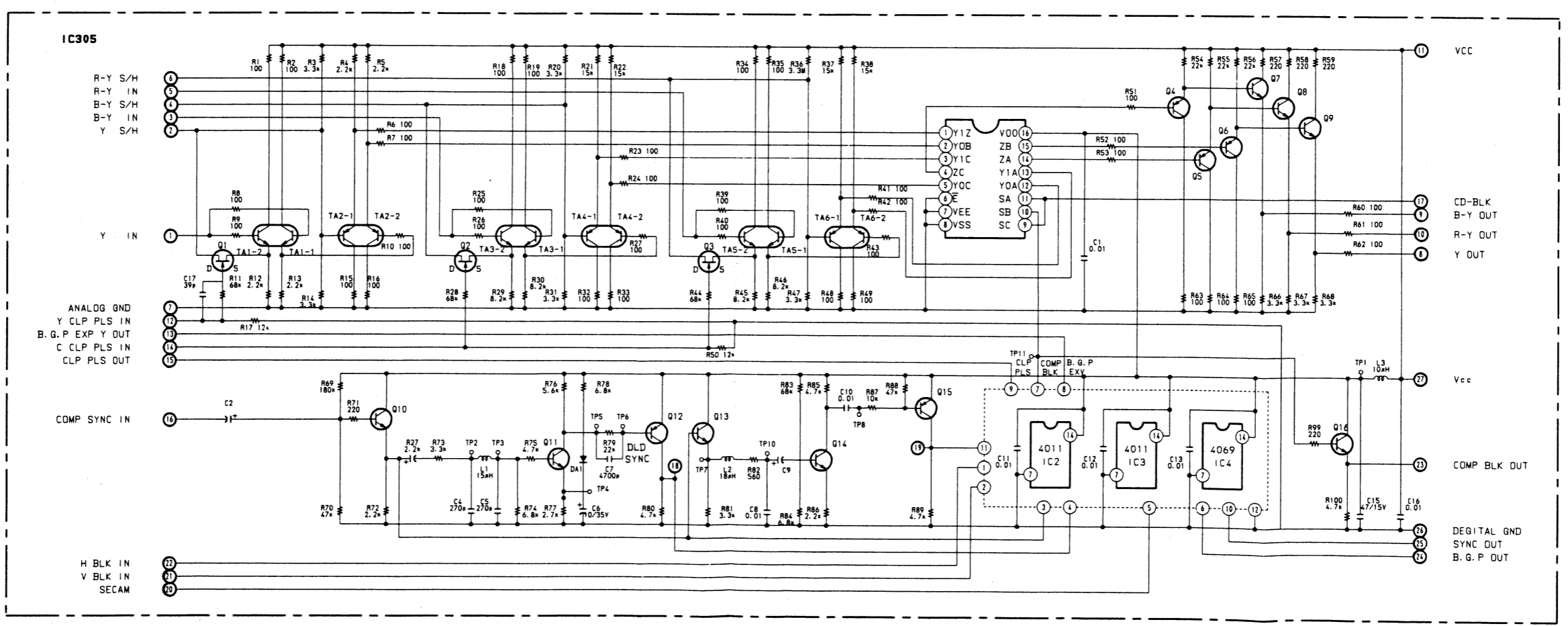
A BOARD



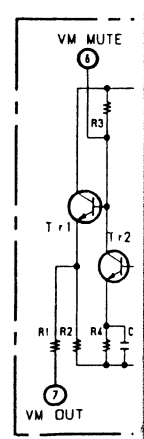
A BOARD



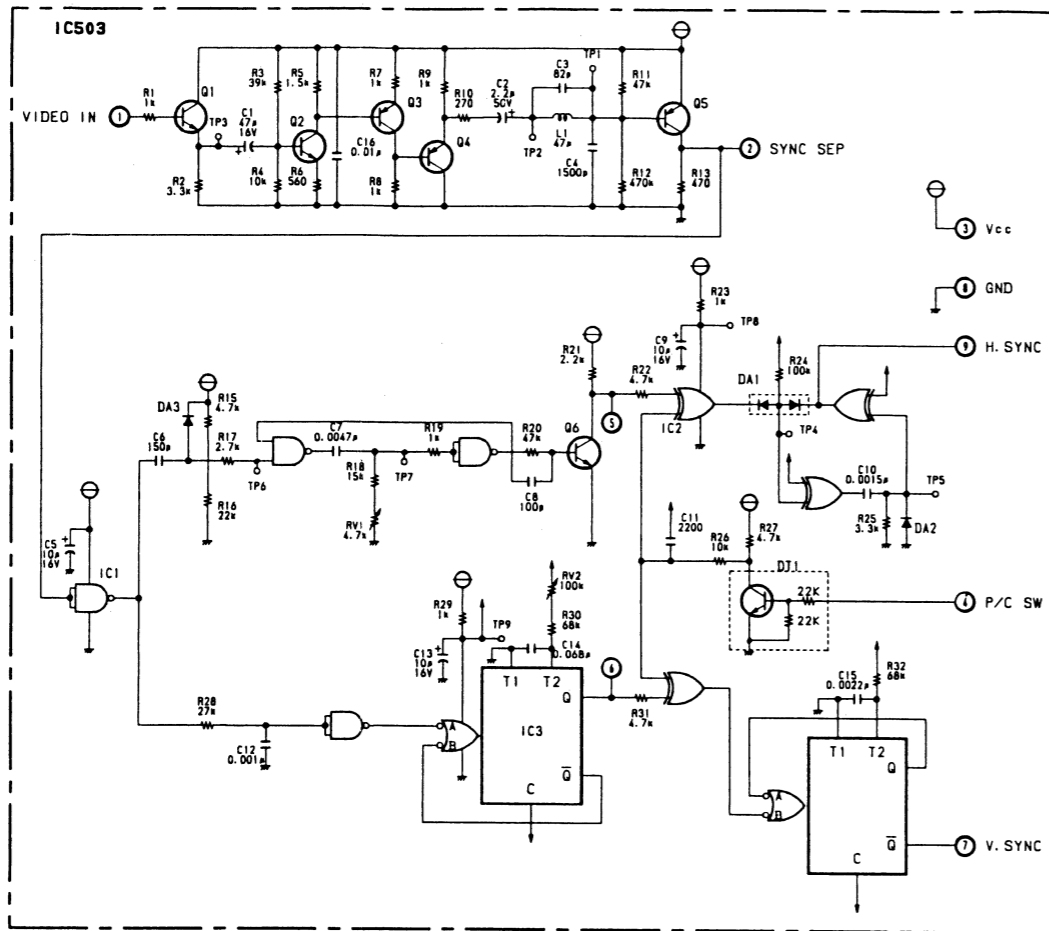
A BOAED IC305 BX-7573



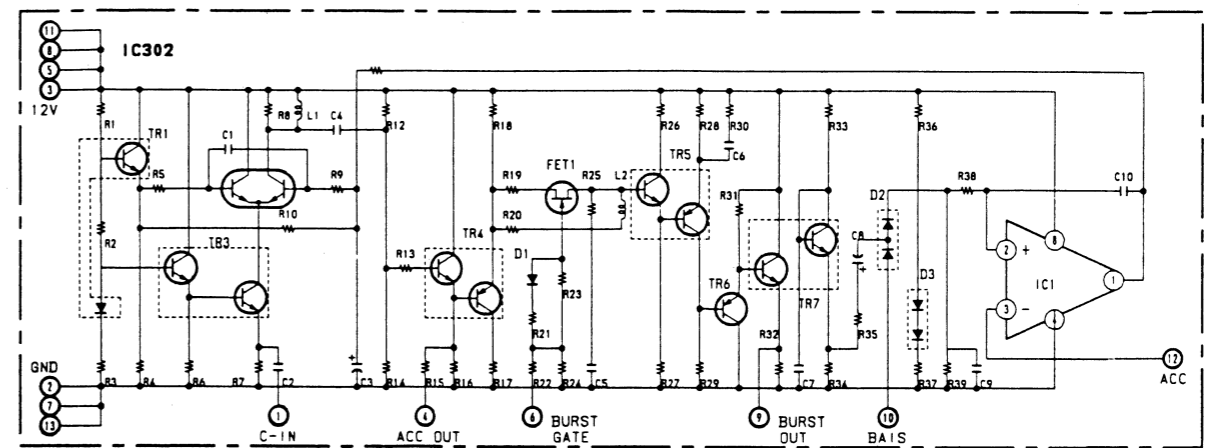
A BOARD



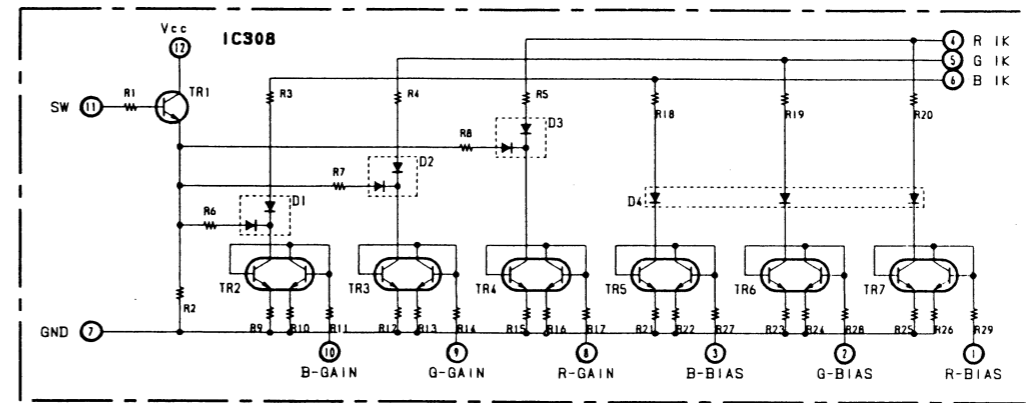
A BOARD IC503 BX7574



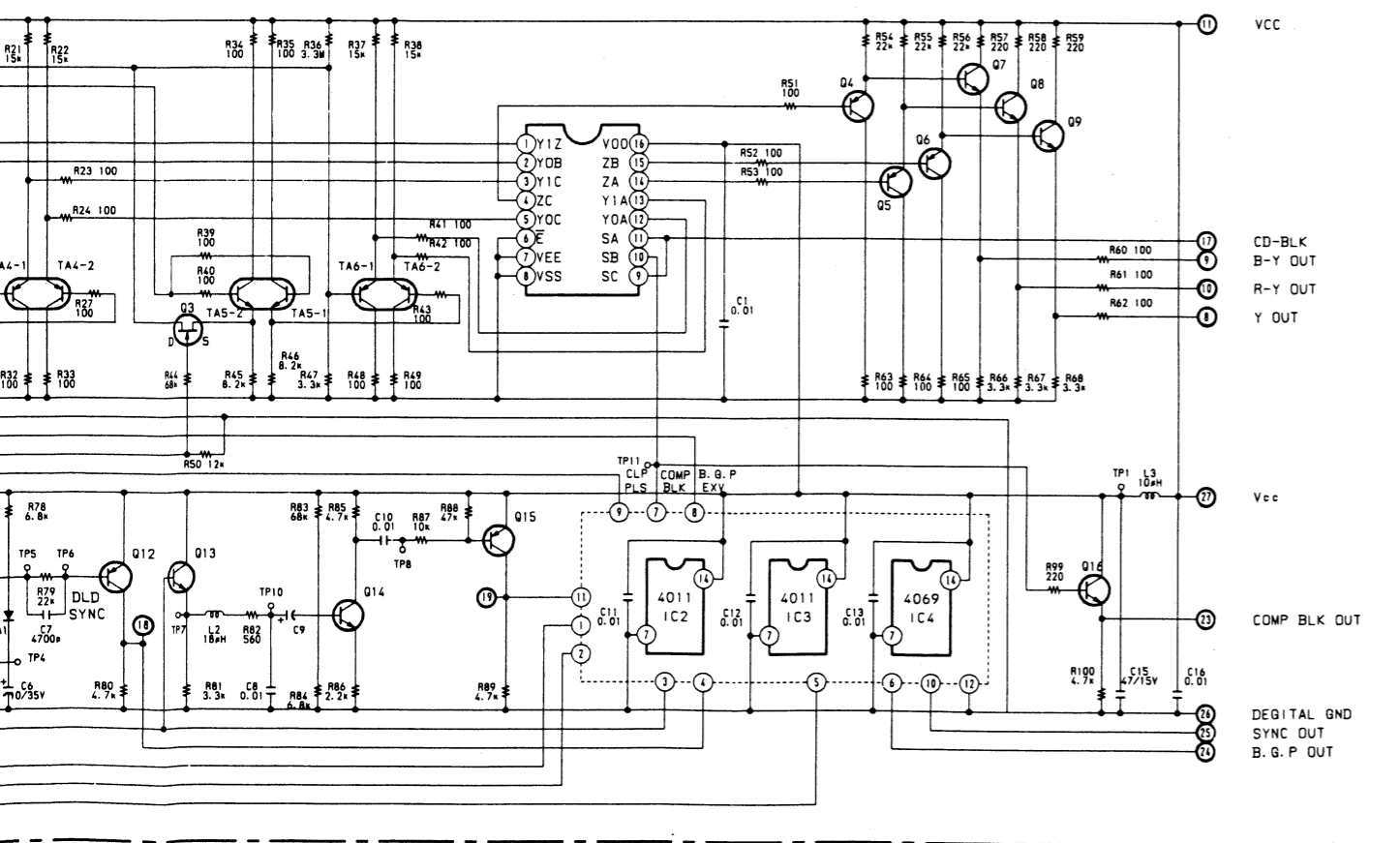
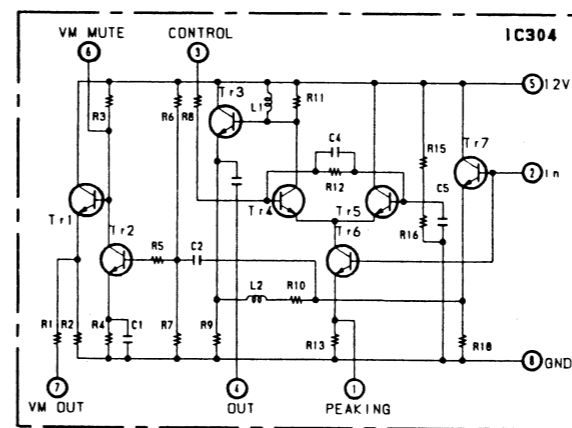
A BOARD IC302 ACC-1



A BOARD IC308 GBM-1

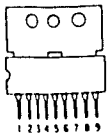


A BOARD IC304

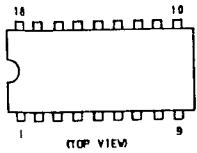


6-6. SEMICONDUCTORS

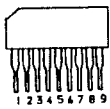
AN5265



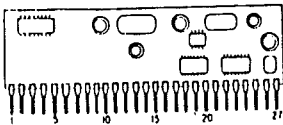
AN5613



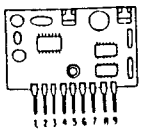
BA236
NJM22435



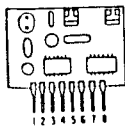
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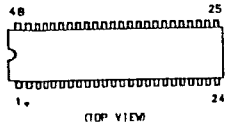
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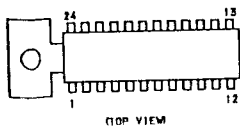
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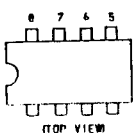
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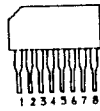
CX175



CX-23025
1R9431
#PC358C
#PC4558C



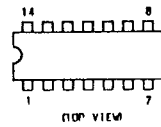
LA7016



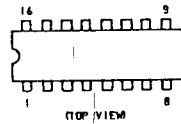
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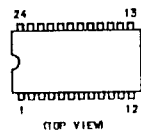
SN74LS09N
SN74LS11N
SN74LS136N
TC4066BP
#PC1394C



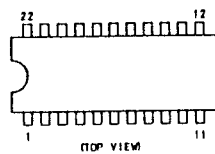
SN74LS138N
TC4052BP
TC4053BP
TC4538BP



TA7193P



#PC1377C



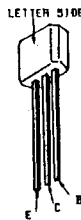
DTA124ES
DTA144ES
DTC124ES
DTC144ES



2SA1091
2SC1890A
2SC2551



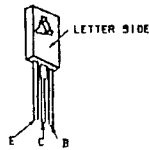
2SA1175
2SA1175-HFE
2SC2785
2SC2785-HFE



2SA1220A
2SD1134



2SA1220A-P
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2SC2690A



2SC3460
2SD1397



2SC2958
2SD773-4
2SD774



2SK105A-30



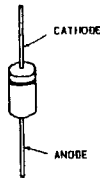
DAN209S



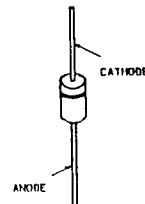
DAP209S



ERB44-06
ERD28-08S
GP08DPKG23
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RGP01-17PKG23
RGP10DT
RGP15J
10E2
10ES-B1
15S83

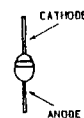


ERC25-06S
RH-1A
RH-1Z
RU2AM
S1B01-02
S1B01-04
S1B01-06

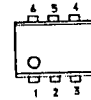


ERC26-15S

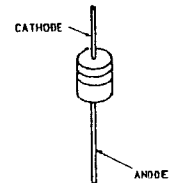
V19E



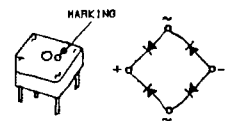
PC111S



RD10ES-B1
RD10ES-B3
RD10ES-L3
RD12ES-B2
RD13ES-B2
RD13ES-B3
RD15ES-B2
RD18ES-B2
RD24EBZ7
RD39ES-B4
RD4.3ES-L2
RD5.1EB2
RD5.1ES-B2
RD5.6ES-B2
RD5.6ES-L1
RD6.2ES-B2
RD6.8ES-B2
RD7.5ES-B2
RD8.2ES-B2
15S148



S3WB60Z



SECTION 7 EXPLODED VIEWS

NOTE:

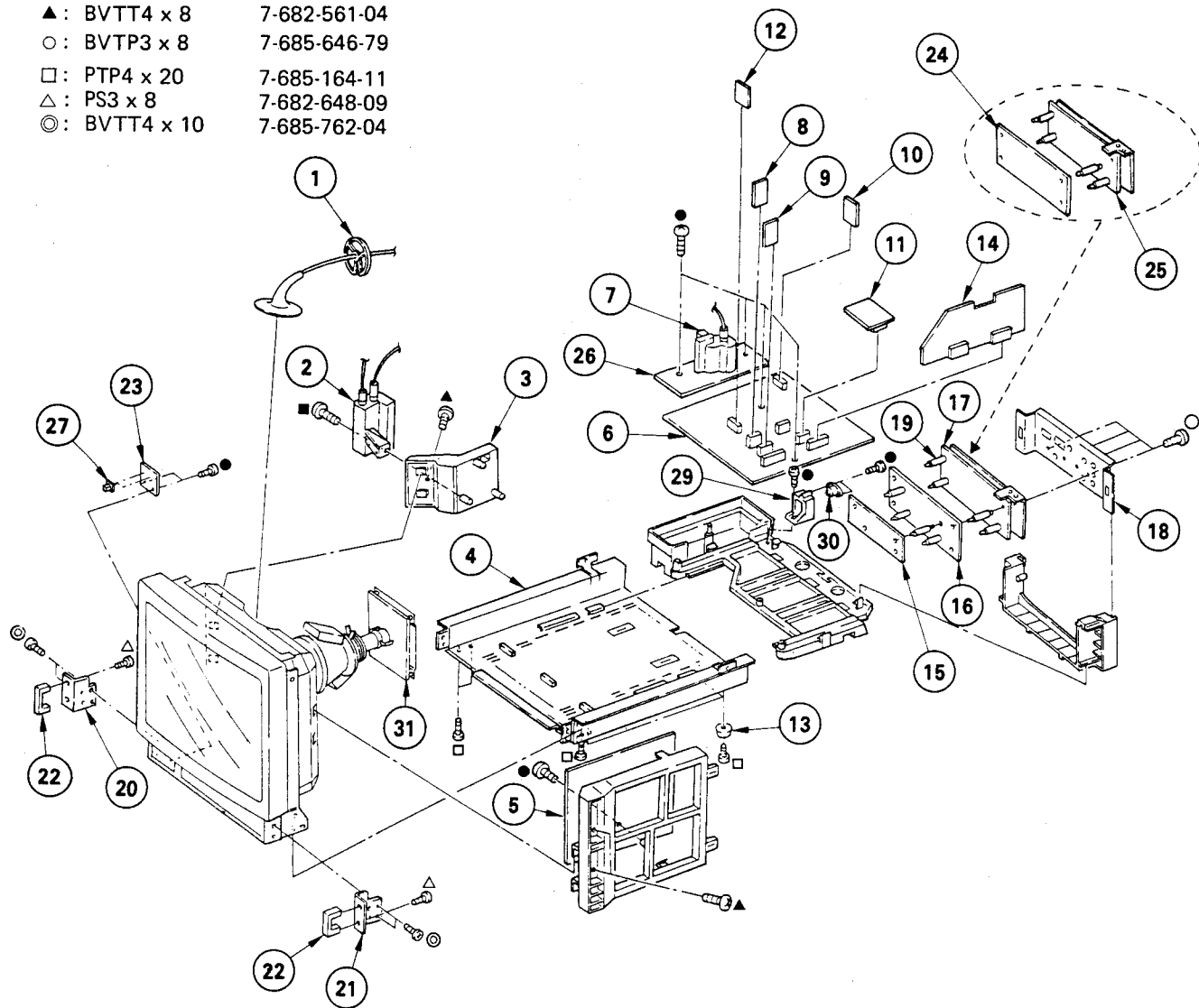
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

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

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

7-1. CHASSIS

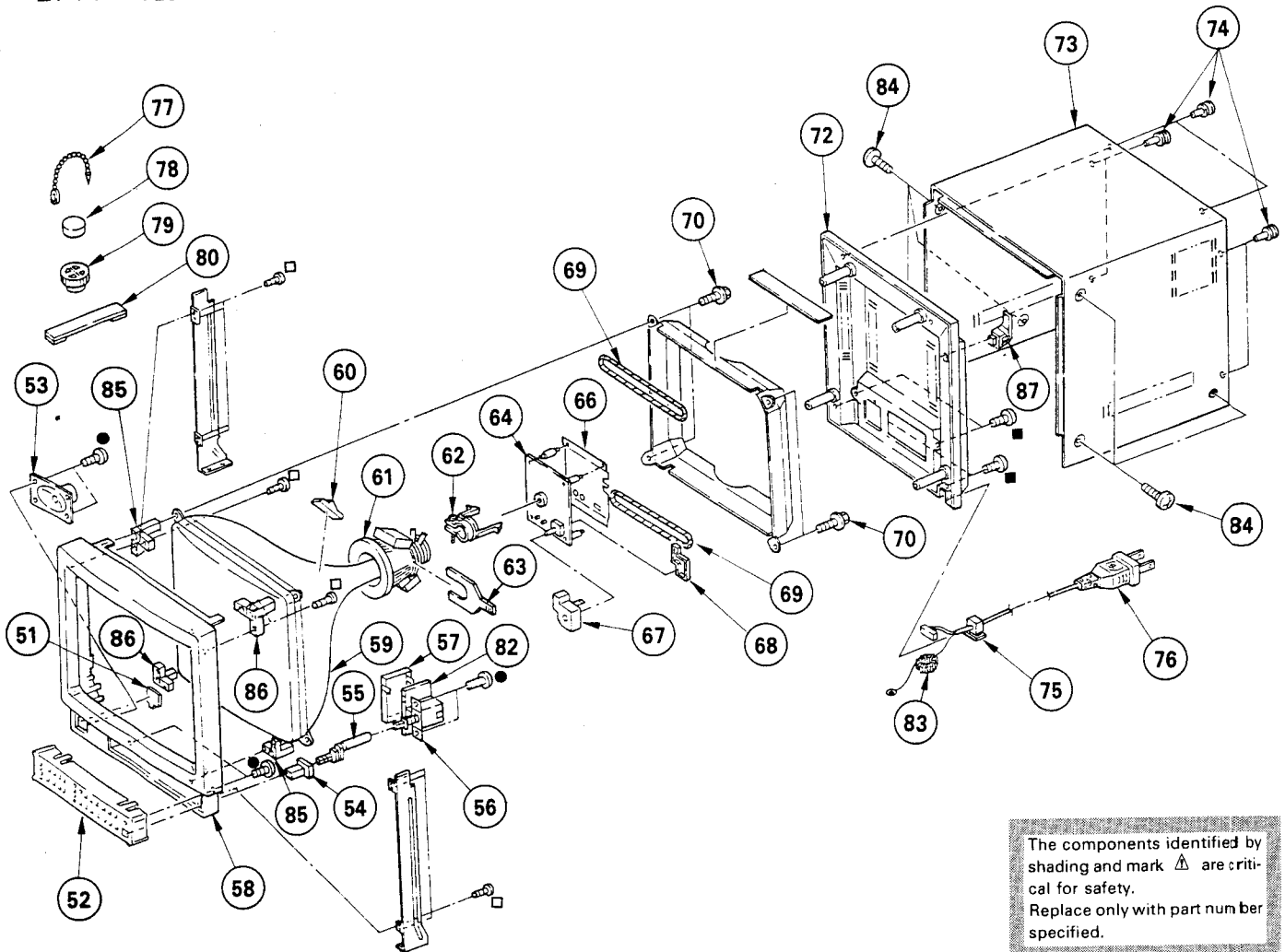
- : BVTP3 x 12 7-685-648-79
- : BVTP4 x 16 7-685-663-79
- ▲ : BVTT4 x 8 7-682-561-04
- : BVTP3 x 8 7-685-646-79
- : PTP4 x 20 7-685-164-11
- △ : PS3 x 8 7-682-648-09
- ◎ : BVTT4 x 10 7-685-762-04



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
1	*3-704-372-01	HOLDER, HV CABLE		16	*A-1270-248-A	QD BOARD, COMPLETE (PVM-2042QM ONLY)	
2 ▲	.1-237-614-12	RESISTOR ASSY, HIGH-VOLTAGE		17	*A-1270-247-A	QC BOARD, COMPLETE (PVM-2042QM ONLY)	
3	*4-391-842-01	BRACKET, HVR		18	4-391-843-01	PLATE, TERMINAL (PVM-2042QM ONLY)	
4	X-4391-818-1	CABINET ASSY, BOTTOM			4-391-843-11	PLATE, TERMINAL (PVM-2042QM ONLY)	
5	*A-1245-479-A	FE BOARD, COMPLETE		19	*3-682-419-01	HOLDER, P.C.B (PVM-2042QM ONLY)	
6	*A-1296-593-A	A BOARD, COMPLETE		20	*4-393-373-01	BRACKET (LEFT), HANDLE	
7 ▲	.1-439-468-11	TRANSFORMER ASSY, FLYBACK (NX-2310)	8,9	21	*4-393-372-01	BRACKET (RIGHT), HANDLE	
8	*1-629-149-11	W BOARD		22	4-382-597-91	HANDLE	
9	*1-629-151-11	XA BOARD		23	*1-632-005-11	H BOARD	
10	*1-632-006-11	Y BOARD		24	*A-1270-246-A	QB BOARD, COMPLETE (PVM-2044QM ONLY)	
11	*1-632-004-11	V BOARD		25	*A-1270-245-A	QA BOARD, COMPLETE (PVM-2044QM ONLY)	
12	*1-632-007-11	T BOARD		26	*1-632-002-11	P BOARD	
13	4-901-947-01	LEG		27	4-374-839-01	BUTTON (A)	
14	*A-1135-613-A	BA BOARD, COMPLETE (PVM-2042QM ONLY)	10-12,26,31	29	4-393-343-01	HOLDER, CONNECTOR (PVM-2044QM ONLY)	
	*A-1135-614-A	BA BOARD, COMPLETE (PVM-2044QM ONLY)	10-12,26,31	30	1-509-718-00	DIN 4P SOCKET (PVM-2044QM ONLY)	
15	*A-1270-249-A	QE BOARD, COMPLETE (PVM-2042QM ONLY)		31	*A-1331-036-A	C BOARD, COMPLETE	

7-2. PICTURE TUBE

- : BVTP3 x 12 7-685-648-79
- : BVTP4 x 16 7-685-663-79
- : PTP4 x 20 7-685-164-11



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
51	4-393-331-01	COVER, LAMP, TALLY (PVM-2044QM ONLY)		70	4-307-249-00	SCREW (5), TAPPING	
52	1-466-076-11	CONTROL UNIT (PVM-2042QM ONLY)		72	4-393-309-11	COVER, REAR (PVM-2042QM ONLY)	
	1-466-198-11	CONTROL UNIT (PVM-2044QM ONLY)			4-393-309-01	COVER, REAR (PVM-2044QM ONLY)	
53	1-544-063-11	SPEAKER		73	4-393-344-01	COVER, TOP	
54	4-374-839-11	BUTTON (A)		74	4-391-825-01	RIVET, NYLON	
55	4-391-824-01	JOINT		75 Δ	*4-364-745-01	BUSHING, AC CORD	
56 Δ	1-554-967-12	SWITCH, PUSH (AC POWER) (1 KEY)		76 Δ	1-574-389-12	CORD, POWER (WITH CONNECTOR)	
57	*4-391-820-01	COVER, AC SWITCH		77	4-308-870-00	CLIP, LEAD WIRE	
58	X-4391-817-1	BEZEL ASSY (PVM-2042QM ONLY)		78	1-452-032-00	MAGNET, DISK; 10MM φ	
	X-4391-813-1	BEZEL ASSY (PVM-2044QM ONLY)	51	79	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM φ	
59 Δ	8-736-122-05	PICTURE TUBE (M49KGH21X)		80	X-4309-608-0	PERMALLOY ASSY, CONVERGENCE	
60	3-703-961-01	SPACER, DY		82	*1-629-153-11	J BOARD	
61 Δ	1-451-349-11	DEFLECTION YOKE (Y20FZA)		83	1-543-604-11	CORE, RING	
62	*4-382-050-01	BAND, C PC BOARD		84	4-847-802-11	SCREW (OS), CASE CLAW	
63	1-452-277-00	MAGNET, BMC		85	4-393-334-01	BRACKET (B), PICTURE TUBE	
64	*A-1331-036-A	C BOARD, COMPLETE		86	4-393-333-01	BRACKET (A), PICTURE TUBE	
66	*4-391-835-01	PLATE (C), SHIELD (PVM-2042QM ONLY)		87	4-329-439-00	CLAMPER, FEEDER	
67	*4-379-167-01	COVER (MAIN), CV					
68	*4-379-160-01	COVER (REAR LID), CV					
69 Δ	1-426-450-11	COIL, DEMAGNETIZATION					

SECTION 8

ELECTRICAL PARTS LIST

BA

NOTE:

The components identified by shading and mark **A** are critical for safety.

Replace only with part number specified.

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

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

RESISTORS

• All resistors are in ohms
• F : nonflammable

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

CAPACITORS

• MF : μ F, PF : μ F

COILS

• MMH : mH, UH : μ H

• The components identified by **A** 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-1135-613-A		BA BOARD, COMPLETE (PVM-2042QM ONLY)		C271	1-101-004-00	CERAMIC	0.01MF 50V
		*****		C272	1-101-002-00	CERAMIC	0.0022MF 50V
*A-1135-614-A		BA BOARD, COMPLETE (PVM-2044QM ONLY)		C273	1-101-002-00	CERAMIC	0.0022MF 50V
		*****		C280	1-108-624-11	MYLAR	0.0068MF 10% 100V
		<CONNECTOR>		C281	1-126-101-11	ELECT	100MF 20% 16V
BA1	*1-565-491-11	CONNECTOR, BOARD TO BOARD 15P		C292	1-101-004-00	CERAMIC	0.01MF 50V
BA2	*1-565-491-11	CONNECTOR, BOARD TO BOARD 15P		C401	1-123-875-11	ELECT	10MF 20% 50V
		<FILTER>		C402	1-101-888-00	CERAMIC	68PF 5% 50V
BPF243	1-236-363-11	FILTER, BAND PASS		C403	1-102-116-00	CERAMIC	680PF 10% 50V
BPF244	1-236-364-11	FILTER, BAND PASS		C404	1-136-161-00	FILM	0.047MF 5% 50V
		<CAPACITOR>		C405	1-102-074-00	CERAMIC	0.001MF 10% 50V
C201	1-124-120-11	ELECT	220MF 20% 16V	C406	1-124-477-11	ELECT	47MF 20% 16V
C202	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C407	1-101-890-00	CERAMIC	75PF 5% 50V
C203	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C408	1-102-961-00	CERAMIC	27PF 5% 50V
C207	1-124-477-11	ELECT	47MF 20% 16V	C409	1-136-165-00	FILM	0.1MF 5% 50V
C208	1-124-477-11	ELECT	47MF 20% 16V	C410	1-136-165-00	FILM	0.1MF 5% 50V
C209	1-124-477-11	ELECT	47MF 20% 16V	C411	1-136-165-00	FILM	0.1MF 5% 50V
C210	1-124-477-11	ELECT	47MF 20% 16V	C412	1-102-129-00	CERAMIC	0.01MF 10% 50V
C211	1-124-477-11	ELECT	47MF 20% 16V	C413	1-124-499-11	ELECT	1MF 20% 50V
C212	1-124-477-11	ELECT	47MF 20% 16V	C414	1-136-173-00	FILM	0.47MF 5% 50V
C213	1-124-477-11	ELECT	47MF 20% 16V	C415	1-123-875-11	ELECT	10MF 20% 50V
C214	1-101-004-00	CERAMIC	0.01MF 50V	C416	1-102-118-00	CERAMIC	0.0012MF 10% 50V
C221	1-124-902-00	ELECT	0.47MF 20% 50V	C417	1-124-477-11	ELECT	47MF 20% 16V
C222	1-124-464-11	ELECT	0.22MF 20% 50V	C418	1-124-499-11	ELECT	1MF 20% 50V
C223	1-102-963-00	CERAMIC	33PF 5% 50V	C419	1-126-101-11	ELECT	100MF 20% 16V
C224	1-101-888-00	CERAMIC	68PF 5% 50V	C420	1-136-165-00	FILM	0.1MF 5% 50V
C230	1-124-120-11	ELECT	220MF 20% 16V	C421	1-102-961-00	CERAMIC	27PF 5% 50V
C240	1-101-004-00	CERAMIC	0.01MF 50V	C422	1-136-165-00	FILM	0.1MF 5% 50V
C241	1-124-120-11	ELECT	220MF 20% 16V	C423	1-123-875-11	ELECT	10MF 20% 50V
C242	1-126-101-11	ELECT	100MF 20% 16V	C424	1-136-165-00	FILM	0.1MF 5% 50V
C243	1-124-120-11	ELECT	220MF 20% 16V	C425	1-101-361-00	CERAMIC	150PF 5% 50V
C245	1-101-004-00	CERAMIC	0.01MF 50V	C426	1-101-890-00	CERAMIC	75PF 5% 50V
C246	1-123-875-11	ELECT	10MF 20% 50V	C427	1-124-120-11	ELECT	220MF 20% 16V
C247	1-101-004-00	CERAMIC	0.01MF 50V	C428	1-124-477-11	ELECT	47MF 20% 16V
C248	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C429	1-124-477-11	ELECT	47MF 20% 16V
C250	1-161-021-11	CERAMIC	0.047MF 10% 25V	C430	1-101-004-00	CERAMIC	0.01MF 50V
C251	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C431	1-101-884-00	CERAMIC	56PF 5% 50V
C252	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C432	1-101-004-00	CERAMIC	0.01MF 50V
C253	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C433	1-126-101-11	ELECT	100MF 20% 16V
C254	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C434	1-101-884-00	CERAMIC	56PF 5% 50V
C255	1-101-004-00	CERAMIC	0.01MF 50V	C435	1-101-884-00	CERAMIC	56PF 5% 50V
C265	1-102-978-00	CERAMIC	220PF 5% 50V	C441	1-102-963-00	CERAMIC	33PF 5% 50V
C266	1-101-003-00	CERAMIC	0.0047MF 50V	C442	1-161-021-11	CERAMIC	0.047MF 10% 25V
C267	1-126-101-11	ELECT	100MF 20% 16V				
C268	1-101-003-00	CERAMIC	0.0047MF 50V				
C269	1-102-978-00	CERAMIC	220PF 5% 50V				
		<FILTER BLOCK>		CFM201	1-464-880-11	FILTER BLOCK, COM (CFB-2)	

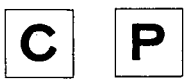
REF. NO.	PART NO.	DESCRIPTION	REMARK
<MODULE>			
CTR210	1-236-366-11	MODULE, TRAP	
CTR211	1-236-365-11	MODULE, TRAP	
PCM290	1-808-628-11	MODULE, PHASE PHM-1	
SEP270	1-808-654-11	MODULE	
<DIODE>			
D210	8-719-911-19	DIODE ISS119	
D211	8-719-911-19	DIODE ISS119	
D212	8-719-911-19	DIODE ISS119	
D240	8-719-110-16	DIODE RD10ES-B1	
D280	8-719-911-19	DIODE ISS119	
D401	8-719-911-19	DIODE ISS119	
D402	8-719-911-19	DIODE ISS119	
<DELAY LINE>			
DL230	1-415-632-11	DELAY LINE, Y	
<IC>			
FPG280	8-749-920-73	IC BX7595	
IC201	8-759-800-81	IC LA7016	
IC210	8-759-240-53	IC TC4053BP	
IC250	8-759-800-81	IC LA7016	
IC260	8-759-208-14	IC TC4066BPHB	
IC261	8-759-208-14	IC TC4066BPHB	
IC401	8-751-750-00	IC CX175	
<COIL>			
L280	1-410-509-11	INDUCTOR 10UH	
L281	1-410-478-11	INDUCTOR 47UH	
L282	1-410-470-11	INDUCTOR 10UH	
L401	1-410-087-31	INDUCTOR 10MMH	
L402	1-408-411-00	INDUCTOR 15UH	
L403	1-404-496-00	COIL	
L404	1-408-411-00	INDUCTOR 15UH	
L405	1-404-496-00	COIL	
L406	1-410-470-11	INDUCTOR 10UH	
L408	1-410-336-11	INDUCTOR 220UH	
<TRANSISTOR>			
Q201	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q210	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q211	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q212	8-729-900-89	TRANSISTOR DTC144ES	
Q213	8-729-900-89	TRANSISTOR DTC144ES	
Q214	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q221	8-729-900-89	TRANSISTOR DTC144ES	
Q222	8-729-900-63	TRANSISTOR DTA124ES	
Q230	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q231	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q232	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q233	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q234	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q240	8-729-140-96	TRANSISTOR 2SW774-34	
Q241	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q242	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q243	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q258	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q259	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q260	8-729-900-89	TRANSISTOR DTC144ES	
Q261	8-729-119-78	TRANSISTOR 2SC2785-HFE	

REF. NO.	PART NO.	DESCRIPTION	REMARK
Q262	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q263	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q264	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q265	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q280	8-729-900-89	TRANSISTOR DTC144ES	
Q401	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q402	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q403	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q404	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q405	8-729-900-63	TRANSISTOR DTA124ES	
Q406	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q407	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q408	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q409	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q410	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q411	8-729-119-76	TRANSISTOR 2SA1175-HFE	
<RESISTOR>			
R201	1-249-435-11	CARBON 33K 5% 1/4W	
R202	1-249-435-11	CARBON 33K 5% 1/4W	
R203	1-249-405-11	CARBON 100 5% 1/4W	
R204	1-249-421-11	CARBON 2.2K 5% 1/4W	
R205	1-249-433-11	CARBON 22K 5% 1/4W	
R206	1-249-432-11	CARBON 18K 5% 1/4W	
R207	1-249-409-11	CARBON 220 5% 1/4W	
R208	1-249-411-11	CARBON 330 5% 1/4W	
R209	1-215-894-11	METAL OXIDE 2.2K 5% 2W F	
R210	1-249-437-11	CARBON 47K 5% 1/4W	
R211	1-249-437-11	CARBON 47K 5% 1/4W	
R212	1-249-437-11	CARBON 47K 5% 1/4W	
R213	1-249-429-11	CARBON 10K 5% 1/4W	
R214	1-249-433-11	CARBON 22K 5% 1/4W	
R215	1-249-437-11	CARBON 47K 5% 1/4W	
R216	1-249-429-11	CARBON 10K 5% 1/4W	
R217	1-249-429-11	CARBON 10K 5% 1/4W	
R218	1-249-425-11	CARBON 4.7K 5% 1/4W	
R219	1-249-405-11	CARBON 100 5% 1/4W	
R220	1-249-428-11	CARBON 8.2K 5% 1/4W	
R221	1-249-423-11	CARBON 3.3K 5% 1/4W	
R222	1-249-439-11	CARBON 68K 5% 1/4W	
R224	1-249-439-11	CARBON 68K 5% 1/4W	
R225	1-249-439-11	CARBON 68K 5% 1/4W	
R226	1-249-439-11	CARBON 68K 5% 1/4W	
R227	1-249-386-11	CARBON 2.7 5% 1/4W F	
R228	1-249-433-11	CARBON 22K 5% 1/4W	
R229	1-249-433-11	CARBON 22K 5% 1/4W	
R230	1-249-429-11	CARBON 10K 5% 1/4W	
R231	1-249-422-11	CARBON 2.7K 5% 1/4W	
R232	1-249-415-11	CARBON 680 5% 1/4W	
R233	1-249-415-11	CARBON 680 5% 1/4W	
R234	1-249-411-11	CARBON 330 5% 1/4W	
R235	1-249-416-11	CARBON 820 5% 1/4W	
R236	1-249-411-11	CARBON 330 5% 1/4W	
R237	1-249-411-11	CARBON 330 5% 1/4W	
R238	1-249-405-11	CARBON 100 5% 1/4W	
R239	1-249-417-11	CARBON 1K 5% 1/4W	
R240	1-249-407-11	CARBON 150 5% 1/4W	
R241	1-247-895-00	CARBON 470K 5% 1/4W	
R242	1-249-421-11	CARBON 2.2K 5% 1/4W	
R243	1-249-435-11	CARBON 33K 5% 1/4W	
R244	1-249-435-11	CARBON 33K 5% 1/4W	
R245	1-249-422-11	CARBON 2.7K 5% 1/4W	
R246	1-249-435-11	CARBON 33K 5% 1/4W	
R247	1-249-435-11	CARBON 33K 5% 1/4W	

BA

C

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R248	1-249-422-11	CARBON 2.7K 5%	1/4W	R424	1-249-429-11	CARBON 10K 5%	1/4W
R249	1-249-432-11	CARBON 18K 5%	1/4W	R425	1-249-414-11	CARBON 560 5%	1/4W
R250	1-249-405-11	CARBON 100 5%	1/4W	R426	1-249-422-11	CARBON 2.7K 5%	1/4W
R251	1-249-433-11	CARBON 22K 5%	1/4W	R427	1-249-426-11	CARBON 5.6K 5%	1/4W
R252	1-249-421-11	CARBON 2.2K 5%	1/4W	R428	1-249-412-11	CARBON 390 5%	1/4W
R253	1-249-415-11	CARBON 680 5%	1/4W	R429	1-249-425-11	CARBON 4.7K 5%	1/4W
R254	1-249-420-11	CARBON 1.8K 5%	1/4W	R430	1-249-408-11	CARBON 180 5%	1/4W
R255	1-249-417-11	CARBON 1K 5%	1/4W	R431	1-249-411-11	CARBON 330 5%	1/4W
R256	1-249-405-11	CARBON 100 5%	1/4W	R432	1-249-422-11	CARBON 2.7K 5%	1/4W
R257	1-249-417-11	CARBON 1K 5%	1/4W	R433	1-249-437-11	CARBON 47K 5%	1/4W
R258	1-249-405-11	CARBON 100 5%	1/4W	R435	1-249-433-11	CARBON 22K 5%	1/4W
R259	1-249-441-11	CARBON 100K 5%	1/4W	R436	1-249-437-11	CARBON 47K 5%	1/4W
R260	1-249-425-11	CARBON 4.7K 5%	1/4W	R437	1-249-437-11	CARBON 47K 5%	1/4W
R261	1-247-891-00	CARBON 330K 5%	1/4W	R438	1-249-437-11	CARBON 47K 5%	1/4W
R262	1-249-435-11	CARBON 33K 5%	1/4W	R439	1-249-426-11	CARBON 5.6K 5%	1/4W
R263	1-249-422-11	CARBON 2.7K 5%	1/4W	R440	1-249-437-11	CARBON 47K 5%	1/4W
R264	1-249-422-11	CARBON 2.7K 5%	1/4W	R441	1-249-440-11	CARBON 82K 5%	1/4W
R268	1-249-417-11	CARBON 1K 5%	1/4W	R442	1-249-405-11	CARBON 100 5%	1/4W
R270	1-249-417-11	CARBON 1K 5%	1/4W	R443	1-249-405-11	CARBON 100 5%	1/4W
R271	1-249-417-11	CARBON 1K 5%	1/4W	R444	1-249-432-11	CARBON 18K 5%	1/4W
R272	1-249-417-11	CARBON 1K 5%	1/4W	R445	1-249-432-11	CARBON 18K 5%	1/4W
R273	1-249-426-11	CARBON 5.6K 5%	1/4W	R446	1-249-437-11	CARBON 47K 5%	1/4W
R274	1-249-429-11	CARBON 10K 5%	1/4W	R447	1-249-437-11	CARBON 47K 5%	1/4W
R275	1-249-413-11	CARBON 470 5%	1/4W	R448	1-249-435-11	CARBON 33K 5%	1/4W
R276	1-249-417-11	CARBON 1K 5%	1/4W	R449	1-249-417-11	CARBON 1K 5%	1/4W
R277	1-247-891-00	CARBON 330K 5%	1/4W			<VARIABLE RESISTOR>	
R278	1-247-891-00	CARBON 330K 5%	1/4W	RV290	1-228-994-00	RES, ADJ, CARBON 10K	
R279	1-249-429-11	CARBON 10K 5%	1/4W	RV291	1-228-991-00	RES, ADJ, CARBON 2.2K	
R280	1-249-429-11	CARBON 10K 5%	1/4W	RV292	1-228-991-00	RES, ADJ, CARBON 2.2K	
R281	1-249-429-11	CARBON 10K 5%	1/4W			<COIL>	
R282	1-249-429-11	CARBON 10K 5%	1/4W	T401	1-404-584-11	COIL	
R283	1-249-429-11	CARBON 10K 5%	1/4W			*****	
R284	1-249-429-11	CARBON 10K 5%	1/4W			*A-1331-036-A C BOARD, COMPLETE	
R285	1-249-429-11	CARBON 10K 5%	1/4W			*****	
R290	1-249-441-11	CARBON 100K 5%	1/4W			*1-508-784-00 PIN, CONNECTOR (5MM PITCH) 1P	
R291	1-249-413-11	CARBON 470 5%	1/4W			1-526-798-51 SOCKET, PICTURE TUBE	
R292	1-249-435-11	CARBON 33K 5%	1/4W			*4-341-751-01 EYELET (EY16)	
R293	1-249-435-11	CARBON 33K 5%	1/4W			*4-341-752-01 EYELET (EY14, EY15)	
R294	1-249-405-11	CARBON 100 5%	1/4W			*4-379-160-01 COVER (REAR LIB), CV	
R295	1-249-405-11	CARBON 100 5%	1/4W			*4-379-167-01 COVER (MAIN), CV	
R296	1-249-405-11	CARBON 100 5%	1/4W			<CONNECTOR>	
R297	1-249-405-11	CARBON 100 5%	1/4W	C1	*1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P	
R299	1-249-429-11	CARBON 10K 5%	1/4W	C2	*1-506-371-00	PIN, CONNECTOR 2P	
R401	1-249-419-11	CARBON 1.5K 5%	1/4W	C3	*1-564-513-11	PLUG, CONNECTOR 10P	
R403	1-247-881-00	CARBON 120K 5%	1/4W			<CAPACITOR>	
R405	1-215-429-00	METAL 2.2K 1%	1/6W	C701	1-102-824-00	CERAMIC 470PF 5% 50V	
R406	1-249-429-11	CARBON 10K 5%	1/4W	C702	1-102-824-00	CERAMIC 470PF 5% 50V	
R407	1-249-422-11	CARBON 2.7K 5%	1/4W	C703	1-102-824-00	CERAMIC 470PF 5% 50V	
R408	1-249-414-11	CARBON 560 5%	1/4W	C704	1-102-121-00	CERAMIC 0.0022MF 10% 50V	
R409	1-249-421-11	CARBON 2.2K 5%	1/4W	C705	1-123-875-11	ELECT 10MF 20% 50V	
R410	1-249-419-11	CARBON 1.5K 5%	1/4W	C706	1-101-002-00	CERAMIC 0.0022MF 50V	
R411	1-249-419-11	CARBON 1.5K 5%	1/4W	C707	1-162-116-00	CERAMIC 680PF 10% 2KV	
R412	1-249-423-11	CARBON 3.3K 5%	1/4W	C708	1-136-601-11	FILM 0.01MF 10% 630V	
R413	1-249-434-11	CARBON 27K 5%	1/4W	C713	1-162-116-00	CERAMIC 680PF 10% 2KV	
R414	1-247-895-00	CARBON 470K 5%	1/4W				
R415	1-249-412-11	CARBON 390 5%	1/4W				
R416	1-249-415-11	CARBON 680 5%	1/4W				
R417	1-249-409-11	CARBON 220 5%	1/4W				
R418	1-249-425-11	CARBON 4.7K 5%	1/4W				
R419	1-249-433-11	CARBON 22K 5%	1/4W				
R420	1-215-431-00	METAL 2.7K 1%	1/6W				
R421	1-249-419-11	CARBON 1.5K 5%	1/4W				
R422	1-249-419-11	CARBON 1.5K 5%	1/4W				
R423	1-249-421-11	CARBON 2.2K 5%	1/4W				



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

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C714	1-102-116-00	CERAMIC	680PF 10% 50V	R708	1-249-418-11	CARBON	1.2K 5% 1/4W
C715	1-102-116-00	CERAMIC	680PF 10% 50V	R709	1-249-418-11	CARBON	1.2K 5% 1/4W
C716	1-102-116-00	CERAMIC	680PF 10% 50V	R710	1-249-402-11	CARBON	56 5% 1/4W
C717	1-162-599-12	CERAMIC	0.0047MF 20% 400V	R711	1-249-405-11	CARBON	100 5% 1/4W
C722	1-162-622-11	CERAMIC	330PF 10% 6.3KV	R712	1-249-402-11	CARBON	56 5% 1/4W
C724	1-124-667-11	ELECT	10MF 20% 100V	R715	1-202-818-00	SOLID	1K 10% 1/2W
C726	1-123-946 00	ELECT	4.7MF 20% 250V	R716	1-216-486-00	METAL OXIDE	8.2K 5% 3W F
C733	1-162-318-11	CERAMIC	0.001MF 10% 500V	R717	1-202-818-00	SOLID	1K 10% 1/2W
<DIODE>				R718	1-216-486-00	METAL OXIDE	8.2K 5% 3W F
D701	8-719-911-19	DIODE	1SS119	R719	1-202-818-00	SOLID	1K 10% 1/2W
D702	8-719-911-19	DIODE	1SS119	R720	1-216-486-00	METAL OXIDE	8.2K 5% 3W F
D703	8-719-911-19	DIODE	1SS119	R721	1-216-397-11	METAL OXIDE	4.7 5% 3W F
D704	8-719-911-19	DIODE	1SS119	R722	1-202-842-11	SOLID	220K 10% 1/2W
D705	8-719-911-19	DIODE	1SS119	R723	1-202-838-00	SOLID	100K 10% 1/2W
D706	8-719-911-19	DIODE	1SS119	R724	1-202-842-11	SOLID	220K 10% 1/2W
D707	8-729-901-83	DIODE	1SS83	R725	1-202-838-00	SOLID	100K 10% 1/2W
D708	8-729-901-83	DIODE	1SS83	R726	1-202-846-00	SOLID	470K 10% 1/2W
D709	8-729-901-83	DIODE	1SS83	R727	1-202-842-11	SOLID	220K 10% 1/2W
D713	8-729-901-83	DIODE	1SS83	R728	1-202-837-00	SOLID	82K 10% 1/2W
D715	8-729-901-83	DIODE	1SS83	R729	1-202-549-00	SOLID	100 10% 1/2W
D716	8-729-901-83	DIODE	1SS83	R730	1-202-842-11	SOLID	220K 10% 1/2W
D717	8-729-901-83	DIODE	1SS83	R731	1-249-409-11	CARBON	220 5% 1/4W
<FILTER>				R732	1-249-409-11	CARBON	220 5% 1/4W
FL701	1-236-388-11	FILTER, EMI		R733	1-249-409-11	CARBON	220 5% 1/4W
FL702	1-236-388-11	FILTER, EMI		R734	1-249-409-11	CARBON	220 5% 1/4W F
FL703	1-236-388-11	FILTER, EMI		R735	1-249-409-11	CARBON	220 5% 1/4W F
<COIL>				R736	1-249-409-11	CARBON	220 5% 1/4W F
L701	1-408-121-00	INDUCTOR	22UH	R737	1-249-405-11	CARBON	100 5% 1/4W
L702	1-408-414-00	INDUCTOR	27UH	R738	1-249-405-11	CARBON	100 5% 1/4W
L703	1-410-476-11	INDUCTOR	33UH	R739	1-249-405-11	CARBON	100 5% 1/4W
L704	1-408-414-00	INDUCTOR	27UH	R740	1-249-433-11	CARBON	22K 5% 1/4W F
<TRANSISTOR>				R741	1-249-433-11	CARBON	22K 5% 1/4W F
Q701	8-729-119-78	TRANSISTOR	2SC2785 HFE	R742	1-249-433-11	CARBON	22K 5% 1/4W F
Q702	8-729-119-78	TRANSISTOR	2SC2785 HFE	R743	1-249-441-11	CARBON	100K 5% 1/4W
Q703	8-729-119-78	TRANSISTOR	2SC2785 HFE	R744	1-249-423-11	CARBON	3.3K 5% 1/4W
Q704	8-729-200-17	TRANSISTOR	2SA1091	R745	1-249-429-11	CARBON	10K 5% 1/4W
Q705	8-729-200-17	TRANSISTOR	2SA1091	R746	1-215-902-11	METAL OXIDE	47K 5% 1W F
Q706	8-729-200-17	TRANSISTOR	2SA1091	R747	1-247-725-11	CARBON	10K 5% 1/4W F
Q707	8-729-326-11	TRANSISTOR	2SC2611	R748	1-247-713-11	CARBON	1K 5% 1/4W F
Q708	8-729-326-11	TRANSISTOR	2SC2611	R749	1-215-902-11	METAL OXIDE	47K 5% 2W F
Q709	8-729-326-11	TRANSISTOR	2SC2611	R750	1-215-905-11	METAL OXIDE	10 5% 3W F
Q710	8-729-200-17	TRANSISTOR	2SA1091	R751	1-247-887-00	CARBON	220K 5% 1/4W
Q711	8-729-200-17	TRANSISTOR	2SA1091	R752	1-247-887-00	CARBON	220K 5% 1/4W
Q712	8-729-200-17	TRANSISTOR	2SA1091	R753	1-247-887-00	CARBON	220K 5% 1/4W
Q713	8-729-255-12	TRANSISTOR	2SC2551	<VARIABLE RESISTOR>			
Q714	8-729-255-12	TRANSISTOR	2SC2551	RV708	1-230-619-11	RES, ADJ, METAL GLAZE	110M
Q715	8-729-178-55	TRANSISTOR	2SC2785-E	RV709	1-226-114-00	RES, ADJ, METAL GLAZE	2.2M
Q716	8-729-178-55	TRANSISTOR	2SC2785-E	*****			
Q717	8-729-178-55	TRANSISTOR	2SC2785-E	*1-632-002-11	P BOARD	*****	
<RESISTOR>				*4-341-751-01	EYELET (EY5, EY6, EY7, EY8, EY9, EY10, EY11, EY12, EY13)		
R702	1-247-887-00	CARBON	220K 5% 1/4W	*4-341-752-01	EYELET (EY1, EY2, EY3, EY4)		
R704	1-249-410-11	CARBON	270 5% 1/4W	<CAPACITOR>			
R705	1-249-410-11	CARBON	270 5% 1/4W	C901	1-162-114-00	CERAMIC	0.0047MF 2KF
R706	1-249-410-11	CARBON	270 5% 1/4W	C902	1-102-212-00	CERAMIC	820PF 10% 50V
R707	1-249-418-11	CARBON	1.2K 5% 1/4W	C903	1-124-931-11	ELECT	47MF 20% 100 V
				C904	1-108-693-11	MYLAR	0.012MF 10% 200 V

PVM-2042QM/2044QM

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

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REF. NO.	PART NO.	DESCRIPTION	REMARK
C905	1-108-700-11	MYLAR 0.047MF 10% 200V	
C906	1-106-389-00	MYLAR 0.082MF 10% 200V	
C907 Δ	1-123-935-51	ELECT 33MF 20% 160V	
C908	1-123-948-00	ELECT 22MF 20% 250V	
C909	1-126-101-11	ELECT 100MF 20% 16V	
C910	1-124-120-11	ELECT 220MF 20% 16V	
C911	1-126-101-11	ELECT 100MF 20% 16V	
<DIODE>			
D901	8-719-300-65	DIODE ES1F	
D902	8-719-300-76	DIODE RH-1A	
D903	8-719-200-02	DIODE 10E2	
D904	8-719-110-31	DIODE RD12ES-B2	
D905	8-719-911-19	DIODE ISS119	
D906	8-719-110-18	DIODE RD10ES-B3	
D907	8-719-911-19	DIODE ISS119	
<COIL>			
L901	1-408-072-00	INDUCTOR 47UH	
L902 Δ	1-459-407-11	COIL, FERRITE CHOKE	
L903	1-459-104-00	COIL, DUST CORE	
L904 Δ	1-459-106-11	COIL, DUST CORE	
<NEON LAMP>			
NL901	1-519-108-99	LAMP, NEON	
<CONNECTOR>			
P1	*1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P	
P2	*1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P	
P3	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P	
P4	*1-564-507-11	PLUG, CONNECTOR 4P	
P5	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P	
P6	*1-564-505-11	PLUG, CONNECTOR 2 (PVM-2044QM ONLY)	
P7	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
<TRANSISTOR>			
Q901	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q902	8-729-140-96	TRANSISTOR 2SD774-34	
<RESISTOR>			
R901	1-215-892-11	METAL OXIDE 1K 5% 2W F	
R902	1-216-445-11	METAL OXIDE 12 5% 2W F	
R903	1-249-448-11	CARBON 1.2 5% 1/4W F	
R904	1-247-692-11	CARBON 22 5% 1/4W F	
R905	1-216-425-11	METAL OXIDE 56 5% 1W F	
R906	1-249-441-11	CARBON 100K 5% 1/4W	
R907	1-249-405-11	CARBON 100 5% 1/4W	
R908	1-249-429-11	CARBON 10K 5% 1/4W	
R909	1-249-429-11	CARBON 10K 5% 1/4W	
R910	1-249-429-11	CARBON 10K 5% 1/4W	
R911	1-249-429-11	CARBON 10K 5% 1/4W	
R912	1-216-429-00	METAL OXIDE 270 5% 1W F	(PVM-2044QM ONLY)
<RELAY>			
RY901	1-515-601-11	RELAY	

REF. NO.	PART NO.	DESCRIPTION	REMARK
<TRANSFORMER>			
T901 Δ	1-439-468-11	TRANSFORMER ASSY, FLYBACK (NX-2310)	
T902	1-413-059-00	TRANSFORMER, FERRITE (DFT)	
T903 Δ	1-460-017-11	TRANSFORMER	

*1-632-006-11	Y BOARD	*****	
<CAPACITOR>			
C1500	1-124-499-11	ELECT 1MF 20% 50V	
C1501	1-102-125-00	CERAMIC 0.0047MF 10% 50V	
<IC>			
IC1500	8-759-909-70	IC CX23025	
<TRANSISTOR>			
Q1500	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1501	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1502	8-729-900-63	TRANSISTOR DTA124ES	
<RESISTOR>			
R1500	1-249-437-11	CARBON 47K 5% 1/4W	
R1501	1-249-437-11	CARBON 47K 5% 1/4W	
R1502	1-249-437-11	CARBON 47K 5% 1/4W F	
R1503	1-249-429-11	CARBON 10K 5% 1/4W	
R1504	1-249-437-11	CARBON 47K 5% 1/4W	
R1505	1-249-437-11	CARBON 47K 5% 1/4W	
<CONNECTOR>			
Y1	*1-565-481-11	CONNECTOR, BOARD TO BOARD 5P	

*1-632-007-11	T BOARD	*****	
*1-564-505-11	PLUG, CONNECTOR 2P		
*1-564-508-11	PLUG, CONNECTOR 5P		
*1-565-483-11	CONNECTOR, BOARD TO BOARD 7P		
<CAPACITOR>			
C1601	1-126-101-11	ELECT 100MF 20% 16V	
C1602	1-101-004-00	CERAMIC 0.01MF 50V	
C1603	1-102-951-00	CERAMIC 15PF 5% 50V	
<DIODE>			
D1601	8-719-911-19	DIODE ISS119	
D1602	8-719-911-19	DIODE ISS119	
D1603	8-719-911-19	DIODE ISS119	
D1604	8-719-911-19	DIODE ISS119	
D1605	8-719-911-19	DIODE ISS119	
<FILTER>			
FL1601	1-236-547-11	TRAP, LC	



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
		<COIL>		Q1711	8-729-119-78	TRANSISTOR 2SC2785-HFE	
L1601	1-410-482-31	INDUCTOR 100UH				<RESISTOR>	
		<TRANSISTOR>		R1700	1-249-422-11	CARBON 2.7K 5% 1/4W	
Q1601	8-729-119-78	TRANSISTOR 2SC2785-HFE		R1701	1-249-425-11	CARBON 4.7K 5% 1/4W	
Q1602	8-729-119-78	TRANSISTOR 2SC2785-HFE		R1702	1-249-417-11	CARBON 1K 5% 1/4W	
Q1603	8-729-119-78	TRANSISTOR 2SC2785-HFE		R1703	1-249-422-11	CARBON 2.7K 5% 1/4W	
Q1604	8-729-900-89	TRANSISTOR DTC144ES		R1704	1-249-417-11	CARBON 1K 5% 1/4W	
		<RESISTOR>		R1705	1-249-441-11	CARBON 100K 5% 1/4W	
R1601	1-249-417-11	CARBON 1K 5% 1/4W		R1706	1-249-441-11	CARBON 100K 5% 1/4W	
R1602	1-249-415-11	CARBON 680 5% 1/4W		R1707	1-249-441-11	CARBON 100K 5% 1/4W	
R1603	1-249-415-11	CARBON 680 5% 1/4W		R1708	1-249-441-11	CARBON 100K 5% 1/4W	
R1604	1-249-434-11	CARBON 27K 5% 1/4W		R1709	1-249-429-11	CARBON 10K 5% 1/4W	
R1605	1-249-415-11	CARBON 680 5% 1/4W		R1710	1-249-438-11	CARBON 56K 5% 1/4W	
R1606	1-249-433-11	CARBON 22K 5% 1/4W		R1711	1-249-429-11	CARBON 10K 5% 1/4W	
R1607	1-249-433-11	CARBON 22K 5% 1/4W		R1712	1-249-429-11	CARBON 10K 5% 1/4W	
R1608	1-249-433-11	CARBON 22K 5% 1/4W		R1713	1-249-429-11	CARBON 10K 5% 1/4W	
R1609	1-249-437-11	CARBON 47K 5% 1/4W		R1714	1-249-429-11	CARBON 10K 5% 1/4W	
*****				R1715	1-249-429-11	CARBON 10K 5% 1/4W	
*1-632-004-11	V BOARD	*****		R1716	1-249-438-11	CARBON 56K 5% 1/4W	
		<CAPACITOR>		R1717	1-249-429-11	CARBON 10K 5% 1/4W	
C1700	1-124-120-11	ELECT 220MF 20% 16V		R1718	1-249-429-11	CARBON 10K 5% 1/4W	
C1701	1-101-004-00	CERAMIC 0.01MF 50V		R1719	1-249-417-11	CARBON 1K 5% 1/4W	
C1702	1-102-978-00	CERAMIC 220PF 5% 50V		R1720	1-249-429-11	CARBON 10K 5% 1/4W	
C1703	1-102-978-00	CERAMIC 220PF 5% 50V		R1721	1-249-429-11	CARBON 10K 5% 1/4W	
C1705	1-124-499-11	ELECT 1MF 20% 50V		R1722	1-249-429-11	CARBON 10K 5% 1/4W	
C1706	1-124-499-11	ELECT 1MF 20% 50V		R1723	1-249-429-11	CARBON 10K 5% 1/4W	
C1707	1-124-120-11	ELECT 220MF 20% 16V		R1724	1-249-429-11	CARBON 10K 5% 1/4W	
C1710	1-101-884-00	CERAMIC 56PF 5% 50V		R1725	1-247-891-00	CARBON 330K 5% 1/4W	
C1711	1-101-884-00	CERAMIC 56PF 5% 50V		R1726	1-247-891-00	CARBON 330K 5% 1/4W	
		<DIODE>		R1727	1-249-437-11	CARBON 47K 5% 1/4W	
D1700	8-719-911-19	DIODE 1SS119		R1728	1-249-437-11	CARBON 47K 5% 1/4W	
D1701	8-729-936-56	DIODE DAN209S		R1729	1-249-405-11	CARBON 100 5% 1/4W	
D1702	8-729-936-56	DIODE DAN209S		R1730	1-249-405-11	CARBON 100 5% 1/4W	
D1703	8-729-936-56	DIODE DAN209S		R1731	1-249-417-11	CARBON 1K 5% 1/4W	
D1704	8-729-936-56	DIODE DAN209S		R1732	1-249-417-11	CARBON 1K 5% 1/4W	
D1705	8-719-933-28	DIODE DAP209S		R1733	1-249-409-11	CARBON 220 5% 1/4W	
D1706	8-719-933-28	DIODE DAP209S		R1734	1-249-409-11	CARBON 220 5% 1/4W	
D1707	8-719-911-19	DIODE 1SS119		R1750	1-249-423-11	CARBON 3.3K 5% 1/4W	
D1708	8-719-911-19	DIODE 1SS119				<VARIABLE RESISTOR>	
		<TRANSISTOR>		RV1700	1-228-993-00	RES, ADJ, CARBON 4.7K	
Q1700	8-729-119-78	TRANSISTOR 2SC2785-HFE		RV1701	1-228-994-00	RES, ADJ, CARBON 10K	
Q1701	8-729-119-78	TRANSISTOR 2SC2785-HFE		RV1702	1-228-993-00	RES, ADJ, CARBON 4.7K	
Q1702	8-729-119-78	TRANSISTOR 2SC2785-HFE		RV1703	1-228-994-00	RES, ADJ, CARBON 10K	
Q1703	8-729-119-78	TRANSISTOR 2SC2785-HFE		RV1704	1-237-524-21	RES, ADJ, CARBON 1M	
Q1704	8-729-119-78	TRANSISTOR 2SC2785-HFE		RV1705	1-228-999-00	RES, ADJ, CARBON 470K	
Q1705	8-729-119-78	TRANSISTOR 2SC2785-HFE		RV1706	1-228-999-00	RES, ADJ, CARBON 470K	
Q1706	8-729-900-89	TRANSISTOR DTC144ES		RV1707	1-228-999-00	RES, ADJ, CARBON 470K	
Q1707	8-729-900-89	TRANSISTOR DTC144ES		RV1708	1-228-995-00	RES, ADJ, CARBON 22K	
Q1708	8-729-115-30	TRANSISTOR 2SK105A-30		RV1709	1-228-995-00	RES, ADJ, CARBON 22K	
Q1709	8-729-115-30	TRANSISTOR 2SK105A-30		RV1710	1-228-995-00	RES, ADJ, CARBON 22K	
Q1710	8-729-119-78	TRANSISTOR 2SC2785-HFE				<CONNECTOR>	
				V1	*1-563-720-11	SOCKET, CONNECTOR (PC BOARD)9P	
				V2	*1-563-720-11	SOCKET, CONNECTOR (PC BOARD)9P	
*****						*A-1245-479-A FE BOARD, COMPLETE	
*****						*****	

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

Table with columns: REF.NO., PART NO., DESCRIPTION, REMARK, REF.NO., PART NO., DESCRIPTION, REMARK. Rows are categorized by component type: CAPACITOR, CONNECTOR, FUSE, IC, COIL, TRANSISTOR, RESISTOR, DIODE.

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

• The components identified by \boxtimes 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.

FE **QA**

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R620	1-217-192-21	WIREWOUND	0.22 10% 2W F	*4-379-104-01	INSULATOR, SLIDE SW		
R621	1-249-423-11	CARBON	3.3K 5% 1/4W				
R622	1-249-434-11	CARBON	27K 5% 1/4W				
R623	1-215-457-00	METAL	33K 1% 1/6W				
R624	1-249-429-11	CARBON	10K 5% 1/4W				
					<CAPACITOR>		
R625	1-247-726-11	CARBON	33K 5% 1/4W	C101	1-124-589-11	ELECT 47MF 20% 16V	
R626	1-249-411-11	CARBON	330 5% 1/4W	C102	1-126-160-11	ELECT 1MF 20% 50V	
R627	1-249-438-11	CARBON	56K 5% 1/4W	C103	1-126-160-11	ELECT 1MF 20% 50V	
R628	1-247-887-00	CARBON	220K 5% 1/4W	C105	1-126-160-11	ELECT 1MF 20% 50V	
R629	1-249-428-11	CARBON	8.2K 5% 1/4W	C106	1-126-160-11	ELECT 1MF 20% 50V	
				C107	1-126-160-11	ELECT 1MF 20% 50V	
R630	1-249-436-11	CARBON	39K 5% 1/4W				
R631	1-249-424-11	CARBON	3.9K 5% 1/4W	C108	1-124-589-11	ELECT 47MF 20% 16V	
R632	1-247-753-11	CARBON	1.2K 5% 1/2W F	C109	1-126-160-11	ELECT 1MF 20% 50V	
R633	1-249-441-11	CARBON	100K 5% 1/4W	C110	1-126-160-11	ELECT 1MF 20% 50V	
R634	1-249-417-11	CARBON	1K 5% 1/4W	C111	1-126-160-11	ELECT 1MF 20% 50V	
				C112	1-124-589-11	ELECT 47MF 20% 16V	
R635	1-205-928-11	WIREWOUND	180 10% 10W				
R636	1-205-927-11	WIREWOUND	2.2K 10% 10W	C113	1-124-589-11	ELECT 47MF 20% 16V	
R637	1-216-465-11	METAL OXIDE	27K 5% 2W F	C114	1-124-589-11	ELECT 47MF 20% 16V	
R640	1-249-438-11	CARBON	56K 5% 1/4W	C115	1-124-589-11	ELECT 47MF 20% 16V	
R644	1-247-885-00	CARBON	180K 5% 1/4W	C116	1-161-021-11	CERAMIC 0.047MF 10% 25V	
				C117	1-124-589-11	ELECT 47MF 20% 16V	
R648	1-247-887-00	CARBON	220K 5% 1/4W				
R651	1-247-881-00	CARBON	120K 5% 1/4W	C118	1-124-589-11	ELECT 47MF 20% 16V	
R652	1-215-924-00	METAL OXIDE	15K 5% 3W F	C119	1-126-160-11	ELECT 1MF 20% 50V	
R653	1-249-417-11	CARBON	1K 5% 1/4W	C120	1-126-160-11	ELECT 1MF 20% 50V	
R654	1-247-881-00	CARBON	120K 5% 1/4W	C121	1-124-589-11	ELECT 47MF 20% 16V	
				C122	1-124-589-11	ELECT 47MF 20% 16V	
R655	1-249-469-11	CARBON	100K 5% 1/4W				
R656	1-247-895-00	CARBON	470K 5% 1/4W	C123	1-124-589-11	ELECT 47MF 20% 16V	
R657	1-247-883-00	CARBON	150K 5% 1/4W	C124	1-124-589-11	ELECT 47MF 20% 16V	
R658 Δ	1-247-289-11	CARBON	8.2M 5% 1W	C125	1-124-589-11	ELECT 47MF 20% 16V	
R661	1-249-443-11	CARBON	0.47 5% 1/4W F	C137	1-126-160-11	ELECT 1MF 20% 50V	
				C138	1-126-160-11	ELECT 1MF 20% 50V	
R665	1-215-427-00	METAL	1.8K 1% 1/6W				
R669	1-249-443-11	CARBON	0.47 5% 1/4W F	C139	1-124-589-11	ELECT 47MF 20% 16V	
R671	1-249-410-11	CARBON	270 5% 1/4W	C140	1-124-589-11	ELECT 47MF 20% 16V	
R682	1-215-923-00	METAL OXIDE	10K 5% 3W F	C141	1-124-589-11	ELECT 47MF 20% 16V	
R688	1-249-427-11	CARBON	6.8K 5% 1/4W	C153	1-124-589-11	ELECT 47MF 20% 16V	
				C161	1-124-589-11	ELECT 47MF 20% 16V	
\boxtimes R690 Δ		METAL					
R691	1-216-513-11	METAL OXIDE	27K 5% 5W F	C162	1-161-021-11	CERAMIC 0.047MF 10% 25V	
R692	1-202-719-00	SOLID	1M 10% 1/2W	C163	1-161-021-11	CERAMIC 0.047MF 10% 25V	
		<VARIABLE RESISTOR>				<IC>	
RV601	1-230-504-11	RES, ADJ, CARBON 220		IC101	8-759-800-81	IC LA7016	
				IC102	8-759-710-31	IC NJM2243S	
		<TRANSFORMER>		IC103	8-759-800-81	IC LA7016	
T602	1-437-079-00	TRANSFORMER, HORIZONTAL DRIVE				<TRANSISTOR>	
T603 Δ	1-448-895-11	SRT		Q106	8-729-119-78	TRANSISTOR 2SC2785-HFE	
T604 Δ	1-421-776-11	LFT					
T605 Δ	1-421-758-11	TRANSFORMER, LINE FILTER (LRT)				<RESISTOR>	
				R101	1-249-429-11	CARBON 10K 5% 1/4W	
		<THERMISTOR>		R103	1-249-405-11	CARBON 100 5% 1/4W	
TH611	1-800-200-00	THERMISTOR S-3K		R104	1-249-433-11	CARBON 22K 5% 1/4W	
THP601 Δ	1-806-387-12	THERMISTOR (POSITIVE)		R105	1-249-433-11	CARBON 22K 5% 1/4W	
				R106	1-249-429-11	CARBON 10K 5% 1/4W	

	*A-1270-245-A	QA BOARD, COMPLETE (PVM-2044QM ONLY)		R107	1-249-417-11	CARBON 1K 5% 1/4W	
		*****		R108	1-249-429-11	CARBON 10K 5% 1/4W	
				R110	1-249-405-11	CARBON 100 5% 1/4W	
				R111	1-249-433-11	CARBON 22K 5% 1/4W	
				R112	1-249-433-11	CARBON 22K 5% 1/4W	
	1-537-191-11	TERMINAL BOARD, INPUT/OUTPUT		R113	1-247-104-00	CARBON 75 5% 1/4W	
	1-537-201-11	TERMINAL BOARD, INPUT OUTPUT		R115	1-247-104-00	CARBON 75 5% 1/4W	
	*3-682-419-01	HOLDER, P.C.B					

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QA

QB

REF. NO.	PART NO.	DESCRIPTION				
R117	1-249-405-11	CARBON	100	5%	1/4W	
R118	1-249-433-11	CARBON	22K	5%	1/4W	
R119	1-249-433-11	CARBON	22K	5%	1/4W	
R120	1-249-429-11	CARBON	10K	5%	1/4W	
R121	1-249-405-11	CARBON	100	5%	1/4W	
R122	1-247-104-00	CARBON	75	5%	1/4W	
R123	1-249-405-11	CARBON	100	5%	1/4W	
R124	1-249-421-11	CARBON	2.2K	5%	1/4W	
R125	1-249-429-11	CARBON	10K	5%	1/4W	
R126	1-247-104-00	CARBON	75	5%	1/4W	
R127	1-247-104-00	CARBON	75	5%	1/4W	
R128	1-247-104-00	CARBON	75	5%	1/4W	
R129	1-247-104-00	CARBON	75	5%	1/4W	
R130	1-247-104-00	CARBON	75	5%	1/4W	
R131	1-247-104-00	CARBON	75	5%	1/4W	
R132	1-249-417-11	CARBON	1K	5%	1/4W	
R168	1-249-429-11	CARBON	10K	5%	1/4W	
R177	1-249-405-11	CARBON	100	5%	1/4W	
R178	1-249-433-11	CARBON	22K	5%	1/4W	
R179	1-249-433-11	CARBON	22K	5%	1/4W	
R184	1-249-420-11	CARBON	1.8K	5%	1/4W	
<VARIABLE RESISTOR>						
RV101	1-228-848-00	RES, VAR, CARBON 10K				
<SWITCH>						
S101	1-570-145-11	SWITCH, SLIDE				
S102	1-570-145-11	SWITCH, SLIDE				

*A-1270-246-A QB BOARD, COMPLETE (PVM-2044QM ONLY)						

<CAPACITOR>						
C126	1-124-477-11	ELECT	47MF	20%	25V	
C127	1-124-477-11	ELECT	47MF	20%	25V	
C128	1-124-477-11	ELECT	47MF	20%	25V	
C129	1-161-021-11	CERAMIC	0.047MF	10%	25V	
C130	1-124-477-11	ELECT	47MF	20%	25V	
C131	1-124-477-11	ELECT	47MF	20%	25V	
C132	1-124-477-11	ELECT	47MF	20%	25V	
C133	1-124-477-11	ELECT	47MF	20%	25V	
C134	1-124-477-11	ELECT	47MF	20%	25V	
C135	1-124-477-11	ELECT	47MF	20%	25V	
C136	1-124-477-11	ELECT	47MF	20%	25V	
C142	1-124-631-11	ELECT	47MF	20%	16V	
C143	1-124-477-11	ELECT	47MF	20%	25V	
C144	1-124-477-11	ELECT	47MF	20%	25V	
C145	1-124-477-11	ELECT	47MF	20%	25V	
C146	1-124-477-11	ELECT	47MF	20%	25V	
C147	1-101-004-00	CERAMIC	0.01MF		50V	
C148	1-101-004-00	CERAMIC	0.01MF		50V	
C149	1-124-478-11	ELECT	100MF	20%	25V	
C150	1-124-499-11	ELECT	1MF	20%	50V	
C151	1-161-021-11	CERAMIC	0.047MF	10%	25V	
C152	1-124-925-11	ELECT	2.2MF	20%	50V	
C154	1-101-004-00	CERAMIC	0.01MF		50V	
C169	1-124-477-11	ELECT	47MF	20%	25V	

<COMPOSITION CIRCUIT BLOCK>

REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
	CP116	1-232-096-00	COMPOSITION CIRCUIT BLOCK	
			<DIODE>	
	D101	8-719-911-19	DIODE 1SS119	
	D102	8-719-911-19	DIODE 1SS119	
	D105	8-719-911-19	DIODE 1SS119	
	D106	8-719-911-19	DIODE 1SS119	
	D111	8-719-911-19	DIODE 1SS119	
	D112	8-719-911-19	DIODE 1SS119	
			<IC>	
	IC104	8-759-800-81	IC LA7016	
	IC105	8-759-800-81	IC LA7016	
	IC106	8-759-710-31	IC NJM2243S	
	IC107	8-759-800-81	IC LA7016	
	IC108	8-759-240-11	IC TC4011BP	
			<TRANSISTOR>	
	Q101	8-729-900-36	TRANSISTOR DTC124ES	
	Q103	8-729-119-78	TRANSISTOR 2SC2785-HFE	
	Q104	8-729-119-78	TRANSISTOR 2SC2785-HFE	
	Q110	8-729-119-76	TRANSISTOR 2SA1175-HFE	
	Q111	8-729-119-76	TRANSISTOR 2SA1175-HFE	
	Q112	8-729-119-76	TRANSISTOR 2SA1175-HFE	
	Q113	8-729-119-78	TRANSISTOR 2SC2785-HFE	
	Q114	8-729-119-78	TRANSISTOR 2SC2785-HFE	
	Q115	8-729-119-78	TRANSISTOR 2SC2785-HFE	
	Q116	8-729-119-78	TRANSISTOR 2SC2785-HFE	
	Q120	8-729-900-65	TRANSISTOR DTA144ES	
	Q121	8-729-900-65	TRANSISTOR DTA144ES	
			<CONNECTOR>	
	QB6	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)	
			<RESISTOR>	
	R133	1-249-405-11	CARBON	100 5% 1/4W
	R134	1-249-433-11	CARBON	22K 5% 1/4W
	R135	1-249-433-11	CARBON	22K 5% 1/4W
	R137	1-249-433-11	CARBON	22K 5% 1/4W
	R138	1-249-433-11	CARBON	22K 5% 1/4W
	R139	1-249-405-11	CARBON	100 5% 1/4W
	R140	1-249-433-11	CARBON	22K 5% 1/4W
	R141	1-249-433-11	CARBON	22K 5% 1/4W
	R142	1-249-433-11	CARBON	22K 5% 1/4W
	R143	1-249-433-11	CARBON	22K 5% 1/4W
	R144	1-249-412-11	CARBON	390 5% 1/4W
	R145	1-249-405-11	CARBON	100 5% 1/4W
	R146	1-249-436-11	CARBON	39K 5% 1/4W
	R147	1-249-435-11	CARBON	33K 5% 1/4W
	R149	1-249-433-11	CARBON	22K 5% 1/4W
	R150	1-249-433-11	CARBON	22K 5% 1/4W
	R151	1-249-429-11	CARBON	10K 5% 1/4W
	R152	1-249-429-11	CARBON	10K 5% 1/4W
	R153	1-249-417-11	CARBON	1K 5% 1/4W
	R154	1-249-422-11	CARBON	2.7K 5% 1/4W
	R155	1-215-383-00	METAL	27 1% 1/6W
	R161	1-215-397-00	METAL	100 1% 1/6W
	R162	1-215-397-00	METAL	100 1% 1/6W



Table with columns: REF. NO., PART NO., DESCRIPTION, REMARK. It contains a list of components such as resistors (R163-R215), capacitors (C110-C109), and transistors (Q122), along with board assembly instructions.

PVM-2042QM/2044QM

Qc

Qd

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<VARIABLE RESISTOR>				IC103	8-759-901-38	IC SN74LS138N	
RV101	1-228-848-00	RES, VAR, CARBON 10K		IC104	8-759-901-36	IC SN74LS136N	
RV102	1-228-848-00	RES, VAR, CARBON 10K		IC105	8-759-900-11	IC SN74LS11N	
<SWITCH>				IC106	8-759-800-81	IC LA7016	
S101	1-570-145-11	SWITCH, SLIDE		IC107	8-759-933-23	IC BA236	
*****				<FILTER MODULE>			
*A-1270-248-A	QD BOARD, COMPLETE (PVM-2042QM ONLY)			LP101	1-235-988-11	FILTER MODULE, LOW PASS	
*****				<TRANSISTOR>			
*3-682-419-01	HOLDER, P.C.B			Q101	8-729-119-78	TRANSISTOR 2SC2785-HFE	
<CAPACITOR>				Q102	8-729-119-78	TRANSISTOR 2SC2785-HFE	
C121	1-126-094-11	ELECT	4.7MF 20% 25V	Q103	8-729-119-78	TRANSISTOR 2SC2785-HFE	
C124	1-101-004-00	CERAMIC	0.01MF 50V	Q104	8-729-119-78	TRANSISTOR 2SC2785-HFE	
C125	1-124-477-11	ELECT	47MF 20% 16V	Q105	8-729-119-78	TRANSISTOR 2SC2785-HFE	
C126	1-124-589-11	ELECT	47MF 20% 16V	Q106	8-729-119-78	TRANSISTOR 2SC2785-HFE	
C127	1-101-004-00	CERAMIC	0.01MF 50V	Q107	8-729-119-78	TRANSISTOR 2SC2785-HFE	
C128	1-124-589-11	ELECT	47MF 20% 16V	Q108	8-729-119-78	TRANSISTOR 2SC2785-HFE	
C129	1-124-589-11	ELECT	47MF 20% 16V	Q109	8-729-119-78	TRANSISTOR 2SC2785-HFE	
C130	1-124-584-00	ELECT	100MF 20% 10V	Q110	8-729-900-36	TRANSISTOR DTC124ES	
C131	1-161-021-11	CERAMIC	0.047MF 10% 25V	Q111	8-729-900-89	TRANSISTOR DTC144ES	
C132	1-102-963-00	CERAMIC	33PF 5% 50V	Q112	8-729-119-78	TRANSISTOR 2SC2785-HFE	
C133	1-126-157-11	ELECT	10MF 20% 16V	Q113	8-729-119-78	TRANSISTOR 2SC2785-HFE	
C134	1-161-021-11	CERAMIC	0.047MF 10% 25V	Q114	8-729-900-36	TRANSISTOR DTC124ES	
C135	1-106-375-12	MYLAR	0.022MF 10% 100V	Q115	8-729-119-78	TRANSISTOR 2SC2785-HFE	
C136	1-101-004-00	CERAMIC	0.01MF 50V	Q125	8-729-119-76	TRANSISTOR 2SA1175-HFE	
C137	1-124-589-11	ELECT	47MF 20% 16V	Q131	8-729-119-76	TRANSISTOR 2SA1175-HFE	
C138	1-124-589-11	ELECT	47MF 20% 16V	Q132	8-729-119-76	TRANSISTOR 2SA1175-HFE	
C139	1-126-160-11	ELECT	1MF 20% 50V	Q135	8-729-900-65	TRANSISTOR DTA144ES	
C140	1-124-589-11	ELECT	47MF 20% 16V	<RESISTOR>			
C141	1-102-965-00	CERAMIC	39PF 5% 50V	R135	1-249-417-11	CARBON 1K 5% 1/4W	
C142	1-102-965-00	CERAMIC	39PF 5% 50V	R136	1-249-411-11	CARBON 330 5% 1/4W	
C143	1-102-965-00	CERAMIC	39PF 5% 50V	R137	1-249-418-11	CARBON 1.2K 5% 1/4W	
C144	1-126-094-11	ELECT	4.7MF 20% 25V	R138	1-249-421-11	CARBON 2.2K 5% 1/4W	
C145	1-161-021-11	CERAMIC	0.047MF 10% 25V	R139	1-249-424-11	CARBON 3.9K 5% 1/4W	
C146	1-124-589-11	ELECT	47MF 20% 16V	R140	1-249-417-11	CARBON 1K 5% 1/4W	
C147	1-124-589-11	ELECT	47MF 20% 16V	R141	1-249-425-11	CARBON 4.7K 5% 1/4W	
C148	1-126-157-11	ELECT	10MF 20% 16V	R142	1-249-435-11	CARBON 33K 5% 1/4W	
C149	1-130-728-00	FILM	0.0022MF 10% 50V	R143	1-249-435-11	CARBON 33K 5% 1/4W	
C150	1-130-483-00	MYLAR	0.01MF 5% 50V	R144	1-249-417-11	CARBON 1K 5% 1/4W	
C151	1-130-471-00	FILM	0.001MF 10% 50V	R145	1-249-411-11	CARBON 330 5% 1/4W	
C172	1-101-005-00	CERAMIC	0.022MF 50V	R146	1-249-417-11	CARBON 1K 5% 1/4W	
C173	1-136-169-00	FILM	0.22MF 5% 50V	R147	1-249-411-11	CARBON 330 5% 1/4W	
C174	1-102-965-00	CERAMIC	39PF 5% 50V	R148	1-249-429-11	CARBON 10K 5% 1/4W	
<DIODE>				R149	1-249-425-11	CARBON 4.7K 5% 1/4W	
D102	8-719-110-03	DIODE RD7.5ES-B2		R150	1-249-417-11	CARBON 1K 5% 1/4W	
D103	8-719-911-19	DIODE 1SS119		R151	1-249-429-11	CARBON 10K 5% 1/4W	
D104	8-719-911-19	DIODE 1SS119		R152	1-249-429-11	CARBON 10K 5% 1/4W	
D105	8-719-911-19	DIODE 1SS119		R153	1-249-405-11	CARBON 100 5% 1/4W	
D106	8-719-109-85	DIODE RD5.1ES-B2		R154	1-249-405-11	CARBON 100 5% 1/4W	
D107	8-719-109-85	DIODE RD5.1ES-B2		R155	1-249-433-11	CARBON 22K 5% 1/4W	
D113	8-719-911-19	DIODE 1SS119		R156	1-249-433-11	CARBON 22K 5% 1/4W	
D116	8-719-911-19	DIODE 1SS119		R157	1-249-430-11	CARBON 12K 5% 1/4W	
<IC>				R158	1-249-417-11	CARBON 1K 5% 1/4W	
IC102	8-759-900-09	IC SN74LS09N		R159	1-247-706-11	CARBON 330 5% 1/4W	
				R160	1-247-706-11	CARBON 330 5% 1/4W	
				R161	1-247-706-11	CARBON 330 5% 1/4W	
				R162	1-249-426-11	CARBON 5.6K 5% 1/4W	
				R163	1-249-421-11	CARBON 2.2K 5% 1/4W	
				R164	1-249-421-11	CARBON 2.2K 5% 1/4W	

QD

QE

REF. NO.	PART NO.	DESCRIPTION	REMARK
R165	1-249-425-11	CARBON 4.7K 5%	1/4W
R166	1-249-425-11	CARBON 4.7K 5%	1/4W
R167	1-247-721-11	CARBON 4.7K 5%	1/4W
R168	1-249-421-11	CARBON 2.2K 5%	1/4W
R169	1-249-433-11	CARBON 22K 5%	1/4W
R170	1-249-437-11	CARBON 47K 5%	1/4W
R171	1-247-725-11	CARBON 10K 5%	1/4W
R172	1-249-405-11	CARBON 100 5%	1/4W
R173	1-247-716-11	CARBON 1.8K 5%	1/4W
R174	1-249-432-11	CARBON 18K 5%	1/4W
R175	1-249-408-11	CARBON 180 5%	1/4W
R176	1-249-437-11	CARBON 47K 5%	1/4W
R178	1-249-418-11	CARBON 1.2K 5%	1/4W
R179	1-247-713-11	CARBON 1K 5%	1/4W
R220	1-249-429-11	CARBON 10K 5%	1/4W
R221	1-249-437-11	CARBON 47K 5%	1/4W
R222	1-249-437-11	CARBON 47K 5%	1/4W
R223	1-249-417-11	CARBON 1K 5%	1/4W
R224	1-249-429-11	CARBON 10K 5%	1/4W
R225	1-249-425-11	CARBON 4.7K 5%	1/4W
R226	1-249-409-11	CARBON 220 5%	1/4W
R231	1-249-432-11	CARBON 18K 5%	1/4W
R235	1-249-425-11	CARBON 4.7K 5%	1/4W
R236	1-249-417-11	CARBON 1K 5%	1/4W
R237	1-249-420-11	CARBON 1.8K 5%	1/4W
R241	1-249-408-11	CARBON 180 5%	1/4W
R242	1-249-405-11	CARBON 100 5%	1/4W
R244	1-249-405-11	CARBON 100 5%	1/4W
R260	1-249-433-11	CARBON 22K 5%	1/4W
R261	1-249-433-11	CARBON 22K 5%	1/4W
R263	1-249-405-11	CARBON 100 5%	1/4W
R299	1-249-420-11	CARBON 1.8K 5%	1/4W
<VARIABLE RESISTOR>			
RV103	1-228-995-00	RES. ADJ, CARBON 22K	
<SWITCH>			
S102	1-553-977-41	SWITCH, SLIDE	

*A-1270-249-A QE BOQRD, COMPLETE (PVM-2042QM ONLY)			

<CAPACITOR>			
C152	1-101-004-00	CERAMIC 0.01MF	50V
C154	1-123-875-11	ELECT 10MF	20% 50V
C155	1-124-499-11	ELECT 1MF	20% 50V
C156	1-124-499-11	ELECT 1MF	20% 50V
C157	1-126-160-11	ELECT 1MF	20% 50V
C158	1-124-477-11	ELECT 47MF	20% 25V
C159	1-126-160-11	ELECT 1MF	20% 50V
C160	1-124-499-11	ELECT 1MF	20% 50V
C161	1-124-477-11	ELECT 47MF	20% 16V
C162	1-124-477-11	ELECT 47MF	20% 16V
C163	1-124-477-11	ELECT 47MF	20% 16V
C164	1-161-021-11	CERAMIC 0.047MF	10% 25V
C165	1-124-477-11	ELECT 47MF	20% 16V
C166	1-124-477-11	ELECT 47MF	20% 16V
C167	1-124-477-11	ELECT 47MF	20% 16V
C168	1-124-589-11	ELECT 47MF	20% 16V

REF. NO.	PART NO.	DESCRIPTION	REMARK
C169	1-161-021-11	CERAMIC 0.047MF	10% 25V
C170	1-124-477-11	ELECT 47MF	20% 25V
C171	1-124-925-11	ELECT 2.2MF	20% 50V
<DIODE>			
D108	8-719-911-19	DIODE 1SS119	
D109	8-719-911-19	DIODE 1SS119	
D110	8-719-911-19	DIODE 1SS119	
D111	8-719-911-19	DIODE 1SS119	
D112	8-719-911-19	DIODE 1SS119	
D114	8-719-911-19	DIODE 1SS119	
D115	8-719-911-19	DIODE 1SS119	
<IC>			
IC108	8-759-800-81	IC LA7016	
IC109	8-759-800-81	IC LA7016	
IC110	8-759-800-81	IC LA7016	
IC111	8-759-710-31	IC NJM2243S	
<TRANSISTOR>			
Q116	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q117	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q118	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q119	8-729-900-36	TRANSISTOR DTC124ES	
Q120	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q121	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q127	8-729-900-65	TRANSISTOR DTA144ES	
<CONNECTOR>			
QE1	*1-564-515-11	PLUG, CONNECTOR 12P	
QE2	*1-564-516-11	PLUG, CONNECTOR 13P	
QE3	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)	
<RESISTOR>			
R180	1-249-405-11	CARBON 100 5%	1/4W
R181	1-249-412-11	CARBON 390 5%	1/4W
R182	1-249-417-11	CARBON 1K 5%	1/4W
R183	1-249-436-11	CARBON 39K 5%	1/4W
R184	1-249-435-11	CARBON 33K 5%	1/4W
R185	1-249-405-11	CARBON 100 5%	1/4W
R186	1-249-433-11	CARBON 22K 5%	1/4W
R187	1-249-433-11	CARBON 22K 5%	1/4W
R188	1-249-405-11	CARBON 100 5%	1/4W
R189	1-249-433-11	CARBON 22K 5%	1/4W
R190	1-249-433-11	CARBON 22K 5%	1/4W
R192	1-249-437-11	CARBON 47K 5%	1/4W
R193	1-249-429-11	CARBON 10K 5%	1/4W
R194	1-249-433-11	CARBON 22K 5%	1/4W
R195	1-249-433-11	CARBON 22K 5%	1/4W
R196	1-249-405-11	CARBON 100 5%	1/4W
R197	1-249-421-11	CARBON 2.2K 5%	1/4W
R198	1-249-421-11	CARBON 2.2K 5%	1/4W
R199	1-249-441-11	CARBON 100K 5%	1/4W
R200	1-249-435-11	CARBON 33K 5%	1/4W
R201	1-249-428-11	CARBON 8.2K 5%	1/4W
R202	1-249-417-11	CARBON 1K 5%	1/4W
R203	1-249-429-11	CARBON 10K 5%	1/4W
R204	1-249-428-11	CARBON 8.2K 5%	1/4W
R205	1-249-405-11	CARBON 100 5%	1/4W

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R206	1-249-429-11	CARBON	10K 5% 1/4W	C314	1-102-074-00	CERAMIC	0.001MF 10% 50V
R207	1-249-429-11	CARBON	10K 5% 1/4W	C315	1-124-927-11	ELECT	4.7MF 20% 50V
R208	1-249-417-11	CARBON	1K 5% 1/4W	C316	1-136-161-00	FILM	0.047MF 5% 50V
R209	1-249-405-11	CARBON	100 5% 1/4W	C317	1-136-161-00	FILM	0.047MF 5% 50V
R210	1-249-433-11	CARBON	22K 5% 1/4W	C318	1-136-165-00	FILM	0.1MF 5% 50V
R211	1-249-433-11	CARBON	22K 5% 1/4W	C319	1-101-004-00	CERAMIC	0.01MF 50V
R212	1-249-433-11	CARBON	22K 5% 1/4W	C320	1-124-499-11	ELECT	1MF 20% 50V
R213	1-249-433-11	CARBON	22K 5% 1/4W	C321	1-124-477-11	ELECT	47MF 20% 16V
R215	1-249-405-11	CARBON	100 5% 1/4W	C322	1-124-902-00	ELECT	0.47MF 20% 50V
R216	1-249-411-11	CARBON	330 5% 1/4W	C323	1-101-361-00	CERAMIC	150PF 5% 50V
R217	1-249-433-11	CARBON	22K 5% 1/4W	C324	1-124-477-11	ELECT	47MF 20% 16V
R251	1-249-417-11	CARBON	1K 5% 1/4W	C325	1-101-361-00	CERAMIC	150PF 5% 50V
R252	1-249-417-11	CARBON	1K 5% 1/4W	C326	1-124-477-11	ELECT	47MF 20% 16V
R253	1-249-417-11	CARBON	1K 5% 1/4W	C327	1-124-477-11	ELECT	47MF 20% 16V
R265	1-249-415-11	CARBON	680 5% 1/4W	C328	1-124-009-11	ELECT	47MF 20% 25V
*****				C329	1-124-477-11	ELECT	47MF 20% 16V
*A-1296-593-A	A BOARD, COMPLETE			C330	1-101-880-00	CERAMIC	47PF 5% 50V
	*****			C331	1-101-004-00	CERAMIC	0.01MF 50V
*4-329-153-00	HEAT SINK, V OUT			C332	1-102-971-00	CERAMIC	82PF 5% 50V
*4-341-751-01	EYELET (EY6, EY7, EY8, EY9, EY10, EY11, EY14, EY17, EY18, EY19, EY20, EY21, EY22, EY23, EY24)			C333	1-136-165-00	FILM	0.1MF 5% 50V
*4-341-752-01	EYELET (EY1, EY2, EY3, EY4)			C334	1-136-173-00	FILM	0.47MF 5% 50V
*4-363-404-00	HOLDER, IC			C335	1-136-173-00	FILM	0.47MF 5% 50V
4-363-414-00	SPACER, MICA			C336	1-102-971-00	CERAMIC	82PF 5% 50V
<CONNECTOR>				C337	1-124-477-11	ELECT	47MF 20% 16V
A1	*1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P		C338	1-124-477-11	ELECT	47MF 20% 16V
A2	*1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P		C339	1-124-477-11	ELECT	47MF 20% 16V
A3	*1-565-498-11	CONNECTOR, BOARD TO BOARD 7P		C340	1-124-477-11	ELECT	47MF 20% 16V
A4	*1-564-596-11	PLUG, CONNECTOR 15P		C341	1-124-477-11	ELECT	47MF 20% 16V
A5	*1-564-596-11	PLUG, CONNECTOR 15P		C342	1-124-477-11	ELECT	47MF 20% 16V
A6	*1-565-497-11	CONNECTOR, BOARD TO BOARD 6P		C343	1-124-477-11	ELECT	47MF 20% 16V
A7	*1-565-498-11	CONNECTOR, BOARD TO BOARD 7P		C344	1-124-477-11	ELECT	47MF 20% 16V
A8	*1-565-506-11	CONNECTOR, BOARD TO BOARD 15P		C345	1-102-949-00	CERAMIC	12PF 5% 50V
A9	*1-565-506-11	CONNECTOR, BOARD TO BOARD 15P		C346	1-126-233-11	ELECT	22MF 20% 50V
A10	*1-564-596-11	PLUG, CONNECTOR 15P		C347	1-123-875-11	ELECT	10MF 20% 50V
A11	*1-564-596-11	PLUG, CONNECTOR 15P		C348	1-101-004-00	CERAMIC	0.01MF 50V
A13	*1-568-105-11	HOUSING, CONNECTOR 10P		C349	1-124-120-11	ELECT	220MF 20% 16V
A14	*1-568-105-11	HOUSING, CONNECTOR 10P		C350	1-101-884-00	CERAMIC	56PF 5% 50V
A16	*1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P		C351	1-102-106-00	CERAMIC	100PF 10% 50V
A17	*1-565-496-11	CONNECTOR, BOARD TO BOARD 5P		C352	1-102-125-00	CERAMIC	0.0047MF 10% 50V
A18	*1-564-038-00	CONNECTOR PLUG, DY (MINI) 6P		C353	1-161-021-11	CERAMIC	0.047MF 10% 25V
A20	*1-564-507-11	PLUG, CONNECTOR 4P		C401	1-136-153-00	FILM	0.01MF 5% 50V
A22	*1-564-505-11	PLUG, CONNECTOR 2P		C402	1-136-165-00	FILM	0.1MF 5% 50V
<CAPACITOR>				C403	1-136-165-00	FILM	0.1MF 5% 50V
C300	1-123-875-11	ELECT	10MF 20% 50V	C404	1-136-169-00	FILM	0.22MF 5% 50V
C301	1-124-477-11	ELECT	47MF 20% 16V	C405	1-136-169-00	FILM	0.22MF 5% 50V
C302	1-101-884-00	CERAMIC	56PF 5% 50V	C406	1-136-169-00	FILM	0.22MF 5% 50V
C303	1-136-173-00	FILM	0.47MF 5% 50V	C407	1-136-169-00	FILM	0.22MF 5% 50V
C304	1-101-884-00	CERAMIC	56PF 5% 50V	C408	1-136-169-00	FILM	0.22MF 5% 50V
C305	1-136-173-00	FILM	0.47MF 5% 50V	C409	1-136-169-00	FILM	0.22MF 5% 50V
C306	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C410	1-124-499-11	ELECT	1MF 20% 50V
C307	1-124-477-11	ELECT	47MF 20% 16V	C411	1-124-499-11	ELECT	1MF 20% 50V
C308	1-124-477-11	ELECT	47MF 20% 16V	C412	1-124-463-00	ELECT	0.1MF 20% 50V
C309	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C413	1-124-463-00	ELECT	0.1MF 20% 50V
C310	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C414	1-136-165-00	FILM	0.1MF 5% 50V
C311	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C415	1-136-165-00	FILM	0.1MF 5% 50V
C312	1-123-875-11	ELECT	10MF 20% 50V	C416	1-126-233-11	ELECT	22MF 20% 50V
C313	1-102-074-00	CERAMIC	0.001MF 10% 50V	C417	1-136-161-00	FILM	0.047MF 5% 50V
				C418	1-136-153-00	FILM	0.01MF 5% 50V
				C419	1-130-479-00	MYLAR	0.0047MF 5% 50V
				C420	1-136-161-00	FILM	0.047MF 5% 50V
				C421	1-136-153-00	FILM	0.01MF 5% 50V
				C422	1-130-479-00	MYLAR	0.0047MF 5% 50V
				C423	1-136-153-00	FILM	0.01MF 5% 50V

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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
C808	1-124-120-11	ELECT 220MF	20% 16V	D530	8-729-901-83	DIODE 1SS83	
C809	1-101-004-00	CERAMIC	0.01MF 50V	D531	8-719-911-19	DIODE 1SS119	
C810	1-108-620-11	MYLAR	0.0033MF 10% 100V	D599	8-719-928-08	DIODE ERD28-08S	
C811	1-124-927-11	ELECT	4.7MF 20% 50V	D801	8-719-911-19	DIODE 1SS119	
C1001	1-126-101-11	ELECT	100MF 20% 16V	D802	8-719-911-19	DIODE 1SS119	
C1002	1-123-875-11	ELECT	10MF 20% 50V	D1001	8-719-911-19	DIODE 1SS119	
C1003	1-102-125-00	CERAMIC	0.0047MF 10% 50V	D1002	8-719-911-19	DIODE 1SS119	
C1004	1-124-464-11	ELECT	0.22MF 20% 50V	D1003	8-719-911-19	DIODE 1SS119	
C1005	1-123-875-11	ELECT	10MF 20% 50V	D1010	8-719-120-64	DIODE RD5.6ES-L1	
C1006	1-123-875-11	ELECT	10MF 20% 50V	D1011	8-719-110-08	DIODE RD8.2ES-B2	
C1007	1-108-634-11	MYLAR	0.047MF 10% 100V	D1012	8-719-911-55	DIODE UOGG	
C1008	1-126-101-11	ELECT	100MF 20% 16V	D1013	8-719-110-37	DIODE RD13ES-B3	
C1009	1-126-103-11	ELECT	470MF 20% 16V	D1014	8-729-936-56	DIODE DAN209S	
C1010	1-126-101-11	ELECT	100MF 20% 16V			<DELAY LINE>	
C1011	1-124-477-11	ELECT	47MF 20% 16V	DL301	1-415-633-11	DELAY LINE, Y	
C1012	1-124-120-11	ELECT	220MF 20% 16V			<IC>	
C1013	1-124-478-11	ELECT	100MF 20% 25V	IC301	8-759-204-21	IC TA7193P	
		<DIODE>		IC302	1-808-627-12	ACC BLOCK ACC-1	
D302	8-719-911-19	DIODE 1SS119		IC303	8-759-710-31	IC NJM2243S	
D303	8-719-911-19	DIODE 1SS119		IC304	1-235-534-11	CONTROL MODULE, PICTURE	
D304	8-719-911-19	DIODE 1SS119		IC305	8-749-920-72	IC BX-7573	
D305	8-719-911-19	DIODE 1SS119		IC306	8-759-420-08	IC AN5613	
D306	8-719-911-19	DIODE 1SS119		IC307	1-808-629-11	MODULE, BLUE ONLY BOM-1	
D307	8-719-911-19	DIODE 1SS119		IC308	1-808-626-11	MODULE, GAIN/BIAS GBM-1	
D309	8-719-911-19	DIODE 1SS119		IC309	8-759-208-08	IC TC4052BPHB	
D311	8-719-911-19	DIODE 1SS119		IC311	8-759-800-81	IC LA7016	
D312	8-719-911-19	DIODE 1SS119		IC312	8-759-800-81	IC LA7016	
D313	8-719-911-19	DIODE 1SS119		IC401	8-752-030-31	IC CXA1024S	
D314	8-719-911-19	DIODE 1SS119		IC501	8-759-100-60	IC UPC1377C	
D400	8-719-121-40	DIODE RD10ES-L3		IC502	8-759-945-58	IC RC4558P	
D401	8-719-911-19	DIODE 1SS119		IC503	8-749-920-74	IC BX7574	
D402	8-719-120-27	DIODE RD4.3ES-L2		IC504	8-759-345-38	IC HD14538BP	
D403	8-719-109-93	DIODE RD6.2ES-B2		IC505	8-759-982-13	IC RC7812FA	
D404	8-719-911-19	DIODE 1SS119		IC1001	8-759-420-04	IC AN5265	
D405	8-719-911-19	DIODE 1SS119				<COIL>	
D406	8-719-110-36	DIODE RD13ES-B2		L300	1-410-470-11	INDUCTOR 10UH	
D501	8-719-911-19	DIODE 1SS119		L301	1-410-470-11	INDUCTOR 10UH	
D502	8-719-971-20	DIODE ERC38-06		L302	1-410-470-11	INDUCTOR 10UH	
D504	8-719-901-58	DIODE RGP15J		L303	1-410-471-11	INDUCTOR 12UH	
D505	8-719-901-58	DIODE RGP15J		L304	1-408-406-00	INDUCTOR 5.6UH	
D507	8-719-305-15	DIODE GH3F		L306	1-410-470-11	INDUCTOR 10UH	
D508	8-719-928-08	DIODE ERD28-08S		L307	1-410-473-11	INDUCTOR 18UH	
D509	8-719-109-89	DIODE RD5.6ES-B2		L495	1-421-013-00	COIL (HORIZONTAL CHOKE) 25UH	
D510	8-719-190-00	DIODE RD24E-BZ7		L501	1-459-155-00	COIL (WITH CORE) 45UH	
D511	8-719-200-02	DIODE 10E2		L503	1-410-666-31	INDUCTOR 18UH	
D512	8-719-200-02	DIODE 10E2		L504	1-407-365-00	COIL, CHOKER	
D513	8-719-911-19	DIODE 1SS119		L505	1-407-365-00	COIL, CHOKER	
D514	8-719-300-76	DIODE RH-1A		L506	1-408-238-00	INDUCTOR 3.9MMH	
D515	8-719-300-76	DIODE RH-1A		L507 △	1-459-232-11	COIL, CORE	
D516	8-719-200-02	DIODE 10E2		L510 △	1-459-075-11	COIL, DYNAMIC CONVERSION CHOKE	
D517	8-719-911-19	DIODE 1SS119		L511	1-459-059-00	COIL, DUST CORE	
D518	8-719-200-02	DIODE 10E2		L512	1-408-247-00	INDUCTOR 33MMH	
D519	8-719-911-19	DIODE 1SS119		L513	1-459-104-00	COIL, DUST CORE	
D520	8-719-911-19	DIODE 1SS119		L514	1-410-686-11	INDUCTOR 1MMH	
D521	8-719-911-19	DIODE 1SS119		L515	1-410-510-11	INDUCTOR 12UH	
D522	8-719-911-19	DIODE 1SS119		L801	1-410-470-11	INDUCTOR 10UH	
D523	8-719-911-19	DIODE 1SS119		L802	1-410-089-21	INDUCTOR 15MMH	
D524	8-719-911-19	DIODE 1SS119					
D526	8-719-911-19	DIODE 1SS119					
D527	8-719-911-19	DIODE 1SS119					
D528	8-719-911-19	DIODE 1SS119					
D529	8-719-911-19	DIODE 1SS119					

REF. NO.	PART NO.	DESCRIPTION
		<TRANSISTOR>
Q300	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q301	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q302	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q303	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q304	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q305	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q306	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q307	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q308	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q309	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q310	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q311	8-729-900-89	TRANSISTOR DTC144ES
Q312	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q313	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q314	8-729-900-65	TRANSISTOR DTA144ES
Q315	8-729-900-89	TRANSISTOR DTC144ES
Q316	8-729-900-89	TRANSISTOR DTC144ES
Q317	8-729-900-89	TRANSISTOR DTC144ES
Q318	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q319	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q320	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q321	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q322	8-729-900-89	TRANSISTOR DTC144ES
Q323	8-729-900-89	TRANSISTOR DTC144ES
Q324	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q325	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q326	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q327	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q328	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q329	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q330	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q331	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q332	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q333	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q334	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q335	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q336	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q337	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q338	8-729-900-89	TRANSISTOR DTC144ES
Q400	8-729-177-33	TRANSISTOR 2SD773-4
Q401	8-729-900-36	TRANSISTOR DTC124ES
Q402	8-729-900-36	TRANSISTOR DTC124ES
Q403	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q404	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q405	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q406	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q407	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q408	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q409	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q410	8-729-900-89	TRANSISTOR DTC144ES
Q411	8-729-900-89	TRANSISTOR DTC144ES
Q412	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q413	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q414	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q415	8-729-900-36	TRANSISTOR DTC124ES
Q416	8-729-900-36	TRANSISTOR DTC124ES
Q501	8-729-800-35	TRANSISTOR 2SD1397
Q502	8-729-119-80	TRANSISTOR 2SC2688 LK
Q503	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q504	8-729-119-76	TRANSISTOR 2SA1175-HFE

REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
	Q505	8-729-309-08	TRANSISTOR 2SC1890A	
	Q506	8-729-119-78	TRANSISTOR 2SC2785-HFE	
	Q507	8-729-313-42	TRANSISTOR 2SD1134	
	Q508	8-729-119-78	TRANSISTOR 2SC2785-HFE	
	Q509	8-729-195-82	TRANSISTOR 2SC2958	
	Q510	8-729-122-03	TRANSISTOR 2SA1220A-P	
	Q511	8-729-169-02	TRANSISTOR 2SC2690A	
	Q512	8-729-119-76	TRANSISTOR 2SA1175-HFE	
	Q513	8-729-900-63	TRANSISTOR DTA124ES	
	Q514	8-729-900-36	TRANSISTOR DTC124ES	
	Q515	8-729-900-36	TRANSISTOR DTC124ES	
	Q516	8-729-119-76	TRANSISTOR 2SA1175-HFE	
	Q517	8-729-119-78	TRANSISTOR 2SC2785-HFE	
	Q518	8-729-119-78	TRANSISTOR 2SC2785-HFE	
	Q519	8-729-900-36	TRANSISTOR DTC124ES	
	Q520	8-729-900-63	TRANSISTOR DTA124ES	
	Q521	8-729-119-78	TRANSISTOR 2SC2785-HFE	
	Q522	8-729-119-78	TRANSISTOR 2SC2785-HFE	
	Q523	8-729-900-36	TRANSISTOR DTC124ES	
	Q524	8-729-900-69	TRANSISTOR DTA144WS	
	Q525	8-729-900-36	TRANSISTOR DTC124ES	
	Q526	8-729-119-76	TRANSISTOR 2SA1175-HFE	
	Q528	8-729-119-78	TRANSISTOR 2SC2785-HFE	
	Q529	8-729-119-78	TRANSISTOR 2SC2785-HFE	
	Q530	8-729-119-78	TRANSISTOR 2SC2785-HFE	
	Q531	8-729-119-78	TRANSISTOR 2SC2785-HFE	
	Q532	8-729-119-76	TRANSISTOR 2SA1175-HFE	
	Q533	8-729-119-76	TRANSISTOR 2SA1175-HFE	
	Q534	8-729-119-76	TRANSISTOR 2SA1175-HFE	
	Q550	8-729-119-78	TRANSISTOR 2SC2785-HFE	
	Q551	8-729-119-78	TRANSISTOR 2SC2785-HFE	
	Q801	8-729-119-78	TRANSISTOR 2SC2785-HFE	
	Q802	8-729-119-76	TRANSISTOR 2SA1175-HFE	
	Q803	8-729-119-78	TRANSISTOR 2SC2785-HFE	
	Q804	8-729-119-78	TRANSISTOR 2SC2785-HFE	
	Q805	8-729-119-76	TRANSISTOR 2SA1175-HFE	
	Q806	8-729-900-36	TRANSISTOR DTC124ES	
	Q807	8-729-119-78	TRANSISTOR 2SC2785-HFE	
	Q1001	8-729-119-76	TRANSISTOR 2SA1175-HFE	
	Q1002	8-729-119-76	TRANSISTOR 2SA1175-HFE	
	Q1003	8-729-140-96	TRANSISTOR 2SD774-34	
	Q1004	8-729-140-96	TRANSISTOR 2SD774-34	
	Q1005	8-729-122-03	TRANSISTOR 2SA1220A-P	
	Q1006	8-729-119-78	TRANSISTOR 2SC2785-HFE	
			<RESISTOR>	
	R300	1-249-405-11	CARBON 100 5% 1/4W	
	R301	1-249-405-11	CARBON 100 5% 1/4W	
	R302	1-247-721-11	CARBON 4.7K 5% 1/4W	
	R303	1-249-426-11	CARBON 5.6K 5% 1/4W	
	R304	1-249-421-11	CARBON 2.2K 5% 1/4W	
	R305	1-249-429-11	CARBON 10K 5% 1/4W	
	R306	1-249-405-11	CARBON 100 5% 1/4W	
	R307	1-247-887-00	CARBON 220K 5% 1/4W	
	R308	1-249-429-11	CARBON 10K 5% 1/4W	
	R309	1-249-405-11	CARBON 100 5% 1/4W	
	R310	1-247-887-00	CARBON 220K 5% 1/4W	
	R311	1-249-435-11	CARBON 33K 5% 1/4W	
	R312	1-249-431-11	CARBON 15K 5% 1/4W	
	R313	1-249-405-11	CARBON 100 5% 1/4W	
	R314	1-249-405-11	CARBON 100 5% 1/4W	
	R315	1-249-413-11	CARBON 470 5% 1/4W	
	R316	1-249-413-11	CARBON 470 5% 1/4W	

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R317	1-249-414-11	CARBON	560 5% 1/4W	R381	1-249-431-11	CARBON	15K 5% 1/4W
R318	1-249-422-11	CARBON	2.7K 5% 1/4W	R382	1-249-408-11	CARBON	180 5% 1/4W
R319	1-249-416-11	CARBON	820 5% 1/4W	R383	1-249-413-11	CARBON	470 5% 1/4W
R320	1-249-415-11	CARBON	680 5% 1/4W	R384	1-249-413-11	CARBON	470 5% 1/4W
R321	1-249-411-11	CARBON	330 5% 1/4W	R385	1-249-411-11	CARBON	330 5% 1/4W
R322	1-249-409-11	CARBON	220 5% 1/4W	R386	1-249-415-11	CARBON	680 5% 1/4W
R323	1-249-409-11	CARBON	220 5% 1/4W	R387	1-249-405-11	CARBON	100 5% 1/4W
R324	1-249-417-11	CARBON	1K 5% 1/4W	R388	1-249-423-11	CARBON	3.3K 5% 1/4W
R325	1-249-405-11	CARBON	100 5% 1/4W	R389	1-249-417-11	CARBON	1K 5% 1/4W
R326	1-249-409-11	CARBON	220 5% 1/4W	R390	1-249-433-11	CARBON	22K 5% 1/4W
R327	1-249-417-11	CARBON	1K 5% 1/4W	R391	1-249-433-11	CARBON	22K 5% 1/4W
R328	1-249-434-11	CARBON	27K 5% 1/4W	R392	1-249-433-11	CARBON	22K 5% 1/4W
R329	1-249-433-11	CARBON	22K 5% 1/4W	R393	1-249-403-11	CARBON	68 5% 1/4W
R330	1-249-433-11	CARBON	22K 5% 1/4W	R394	1-249-409-11	CARBON	220 5% 1/4W
R331	1-249-433-11	CARBON	22K 5% 1/4W	R395	1-249-417-11	CARBON	1K 5% 1/4W
R332	1-249-405-11	CARBON	100 5% 1/4W	R396	1-249-433-11	CARBON	22K 5% 1/4W
R333	1-249-435-11	CARBON	33K 5% 1/4W	R397	1-249-405-11	CARBON	100 5% 1/4W
R334	1-249-432-11	CARBON	18K 5% 1/4W	R398	1-249-405-11	CARBON	100 5% 1/4W
R335	1-247-700-11	CARBON	100 5% 1/4W	R399	1-247-718-11	CARBON	2.7K 5% 1/4W
R336	1-249-417-11	CARBON	1K 5% 1/4W	R400	1-249-413-11	CARBON	470 5% 1/4W
R337	1-249-410-11	CARBON	270 5% 1/4W	R401	1-249-413-11	CARBON	470 5% 1/4W
R338	1-249-421-11	CARBON	2.2K 5% 1/4W	R402	1-249-416-11	CARBON	820 5% 1/4W
R339	1-249-405-11	CARBON	100 5% 1/4W	R403	1-249-411-11	CARBON	330 5% 1/4W
R340	1-249-434-11	CARBON	27K 5% 1/4W	R404	1-249-405-11	CARBON	100 5% 1/4W
R341	1-249-434-11	CARBON	27K 5% 1/4W	R405	1-249-422-11	CARBON	2.7K 5% 1/4W
R342	1-249-418-11	CARBON	1.2K 5% 1/4W	R406	1-249-413-11	CARBON	470 5% 1/4W
R343	1-249-440-11	CARBON	82K 5% 1/4W	R407	1-249-413-11	CARBON	470 5% 1/4W
R344	1-249-428-11	CARBON	8.2K 5% 1/4W	R408	1-249-416-11	CARBON	820 5% 1/4W
R345	1-249-416-11	CARBON	820 5% 1/4W	R409	1-249-411-11	CARBON	330 5% 1/4W
R346	1-249-416-11	CARBON	820 5% 1/4W	R410	1-249-405-11	CARBON	100 5% 1/4W
R347	1-249-421-11	CARBON	2.2K 5% 1/4W	R411	1-249-422-11	CARBON	2.7K 5% 1/4W
R348	1-249-421-11	CARBON	2.2K 5% 1/4W	R412	1-249-419-11	CARBON	1.5K 5% 1/4W
R349	1-249-417-11	CARBON	1K 5% 1/4W	R413	1-249-417-11	CARBON	1K 5% 1/4W
R350	1-249-425-11	CARBON	4.7K 5% 1/4W	R414	1-249-429-11	CARBON	10K 5% 1/4W
R351	1-249-421-11	CARBON	2.2K 5% 1/4W	R415	1-249-417-11	CARBON	1K 5% 1/4W
R352	1-247-891-00	CARBON	330K 5% 1/4W	R416	1-249-429-11	CARBON	10K 5% 1/4W
R353	1-249-428-11	CARBON	8.2K 5% 1/4W	R417	1-249-421-11	CARBON	2.2K 5% 1/4W
R354	1-249-424-11	CARBON	3.9K 5% 1/4W	R418	1-249-439-11	CARBON	68K 5% 1/4W
R355	1-249-434-11	CARBON	27K 5% 1/4W	R419	1-249-433-11	CARBON	22K 5% 1/4W
R356	1-249-437-11	CARBON	47K 5% 1/4W	R420	1-249-426-11	CARBON	5.6K 5% 1/4W
R357	1-249-437-11	CARBON	47K 5% 1/4W	R421	1-249-437-11	CARBON	47K 5% 1/4W
R358	1-249-433-11	CARBON	22K 5% 1/4W	R422	1-249-437-11	CARBON	47K 5% 1/4W
R359	1-249-417-11	CARBON	1K 5% 1/4W	R423	1-249-405-11	CARBON	100 5% 1/4W
R360	1-249-413-11	CARBON	470 5% 1/4W	R424	1-249-437-11	CARBON	47K 5% 1/4W
R361	1-249-405-11	CARBON	100 5% 1/4W	R425	1-249-437-11	CARBON	47K 5% 1/4W
R362	1-249-410-11	CARBON	270 5% 1/4W	R426	1-249-434-11	CARBON	27K 5% 1/4W
R363	1-249-432-11	CARBON	18K 5% 1/4W	R427	1-249-429-11	CARBON	10K 5% 1/4W
R364	1-249-417-11	CARBON	1K 5% 1/4W	R428	1-249-425-11	CARBON	4.7K 5% 1/4W
R365	1-249-432-11	CARBON	18K 5% 1/4W	R429	1-249-405-11	CARBON	100 5% 1/4W
R366	1-249-437-11	CARBON	47K 5% 1/4W	R430	1-247-711-11	CARBON	680 5% 1/4W
R367	1-249-413-11	CARBON	470 5% 1/4W	R431	1-249-416-11	CARBON	820 5% 1/4W
R368	1-249-405-11	CARBON	100 5% 1/4W	R432	1-249-414-11	CARBON	560 5% 1/4W
R369	1-249-405-11	CARBON	100 5% 1/4W	R433	1-249-433-11	CARBON	22K 5% 1/4W
R370	1-249-417-11	CARBON	1K 5% 1/4W	R434	1-249-425-11	CARBON	4.7K 5% 1/4W
R371	1-249-461-11	CARBON	18K 5% 1/4W	R435	1-249-405-11	CARBON	100 5% 1/4W
R372	1-249-465-11	CARBON	47K 5% 1/4W	R436	1-249-423-11	CARBON	3.3K 5% 1/4W
R373	1-249-436-11	CARBON	39K 5% 1/4W	R437	1-249-411-11	CARBON	330 5% 1/4W
R374	1-249-432-11	CARBON	18K 5% 1/4W	R438	1-249-405-11	CARBON	100 5% 1/4W
R375	1-249-405-11	CARBON	100 5% 1/4W	R439	1-249-417-11	CARBON	1K 5% 1/4W
R376	1-249-417-11	CARBON	1K 5% 1/4W	R440	1-249-425-11	CARBON	4.7K 5% 1/4W
R377	1-249-437-11	CARBON	47K 5% 1/4W	R441	1-249-417-11	CARBON	1K 5% 1/4W
R378	1-249-433-11	CARBON	22K 5% 1/4W	R442	1-247-700-11	CARBON	100 5% 1/4W
R379	1-249-430-11	CARBON	12K 5% 1/4W	R443	1-249-421-11	CARBON	2.2K 5% 1/4W
R380	1-249-405-11	CARBON	100 5% 1/4W				

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

- The components identified by Δ 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.

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK	
R444	1-249-419-11	CARBON	1.5K 5% 1/4W	R509	1-249-423-11	CARBON	3.3K 5% 1/4W F	
R445	1-249-417-11	CARBON	1K 5% 1/4W	R510	1-216-454-11	METAL OXIDE	390 5% 2W F	
R446	1-249-422-11	CARBON	2.7K 5% 1/4W	R511	1-215-447-00	METAL	12K 1% 1/6W	
R447	1-249-429-11	CARBON	10K 5% 1/4W	R512 Δ	1-212-883-91	FUSIBLE	120 5% 1/4W F	
R448	1-247-883-00	CARBON	150K 5% 1/4W	R513	1-249-383-11	CARBON	1.5 5% 1/4W F	
R449	1-249-462-11	CARBON	22K 5% 1/4W	R514	1-216-367-11	METAL OXIDE	0.68 5% 2W F	
R450	1-249-409-11	CARBON	220 5% 1/4W	R515	1-215-858-00	METAL OXIDE	15 5% 1W F	
R451	1-247-704-11	CARBON	220 5% 1/4W	R516	1-214-888-00	METAL	10K 1% 1/2W	
R452	1-249-409-11	CARBON	220 5% 1/4W	R517	1-214-763-00	METAL	27K 1% 1/4W	
R453	1-247-704-11	CARBON	220 5% 1/4W	R518	1-214-783-00	METAL	180K 1% 1/4W	
R454	1-249-417-11	CARBON	1K 5% 1/4W	R519	1-214-917-00	METAL	150K 1% 1/2W	
R455	1-249-409-11	CARBON	220 5% 1/4W	R520	1-215-467-00	METAL	82K 1% 1/6W	
R456	1-249-409-11	CARBON	220 5% 1/4W	R521	1-215-445-00	METAL	10K 1% 1/6W	
R457	1-249-409-11	CARBON	220 5% 1/4W	R522	1-247-887-00	CARBON	220K 5% 1/4W	
R458	1-249-433-11	CARBON	22K 5% 1/4W	R523	1-215-435-00	METAL	3.9K 1% 1/6W	
R459	1-249-425-11	CARBON	4.7K 5% 1/4W	R524	1-249-469-11	CARBON	100K 5% 1/4W	
R460	1-249-425-11	CARBON	4.7K 5% 1/4W	R525	1-215-445-00	METAL	10K 1% 1/6W	
R461	1-249-433-11	CARBON	22K 5% 1/4W	R526	1-215-439-00	METAL	5.6K 1% 1/6W	
R462	1-249-386-11	CARBON	2.7 5% 1/4W F	R527	1-249-417-11	CARBON	1K 5% 1/4W	
R464	1-259-883-11	CARBON	3.9M 5% 1/4W	R528	1-215-877-11	METAL OXIDE	22K 5% 1W F	
R465	1-249-465-11	CARBON	47K 5% 1/4W	R529	1-216-360-11	METAL OXIDE	8.2 5% 1W F	
R466	1-249-421-11	CARBON	2.2K 5% 1/4W	R530	1-216-427-00	METAL OXIDE	120 5% 1W F	
R467	1-249-431-11	CARBON	15K 5% 1/4W	R531	1-247-756-11	CARBON	2.2K 5% 1/2W F	
R468	1-249-431-11	CARBON	15K 5% 1/4W	R532	1-249-436-11	CARBON	39K 5% 1/4W	
R469	1-247-897-11	CARBON	560K 5% 1/4W	R533	1-249-422-11	CARBON	2.7K 5% 1/4W	
R470	1-249-437-11	CARBON	47K 5% 1/4W	R534	1-247-719-11	CARBON	3.3K 5% 1/4W	
R471	1-249-429-11	CARBON	10K 5% 1/4W	R535	1-215-441-00	METAL	6.8K 1% 1/6W	
R472	1-249-417-11	CARBON	1K 5% 1/4W	R536	1-249-433-11	CARBON	22K 5% 1/4W	
R473	1-249-437-11	CARBON	47K 5% 1/4W	R537	1-249-417-11	CARBON	1K 5% 1/4W F	
R474	1-249-429-11	CARBON	10K 5% 1/4W	R538	1-249-430-11	CARBON	12K 5% 1/4W	
R475	1-249-417-11	CARBON	1K 5% 1/4W	R539	1-247-883-00	CARBON	150K 5% 1/4W	
R476	1-249-401-11	CARBON	47 5% 1/4W	R540	1-246-535-00	CARBON	390K 5% 1/4W	
R477	1-249-417-11	CARBON	1K 5% 1/4W	R541	1-247-889-00	CARBON	270K 5% 1/4W	
R478	1-249-401-11	CARBON	47 5% 1/4W	R542	1-249-438-11	CARBON	56K 5% 1/4W	
R479	1-249-417-11	CARBON	1K 5% 1/4W	R543	1-247-903-00	CARBON	1M 5% 1/4W	
R480	1-249-401-11	CARBON	47 5% 1/4W	R544	1-215-447-00	METAL	12K 1% 1/6W	
R481	1-249-433-11	CARBON	22K 5% 1/4W	R545	1-249-417-11	CARBON	1K 5% 1/4W	
R482	1-249-433-11	CARBON	22K 5% 1/4W	R546	1-249-409-11	CARBON	220 5% 1/4W	
R483	1-249-433-11	CARBON	22K 5% 1/4W	R547	1-249-414-11	CARBON	560 5% 1/4W	
R484	1-247-891-00	CARBON	330K 5% 1/4W	R548	1-249-415-11	CARBON	680 5% 1/4W	
R485	1-247-891-00	CARBON	330K 5% 1/4W	R549	1-215-473-00	METAL	150K 1% 1/6W	
R486	1-249-433-11	CARBON	22K 5% 1/4W	R550	1-249-433-11	CARBON	22K 5% 1/4W	
R487	1-249-433-11	CARBON	22K 5% 1/4W	R551	1-247-688-11	CARBON	10 5% 1/4W F	
R488	1-249-418-11	CARBON	1.2K 5% 1/4W F	R552	1-249-421-11	CARBON	2.2K 5% 1/4W	
R489	1-249-421-11	CARBON	2.2K 5% 1/4W	R553	1-249-429-11	CARBON	10K 5% 1/4W	
R490	1-247-895-00	CARBON	470K 5% 1/4W	R554	1-249-461-11	CARBON	18K 5% 1/4W	
R491	1-249-420-11	CARBON	1.8K 5% 1/4W	R555	1-249-426-11	CARBON	5.6K 5% 1/4W	
R492	1-249-417-11	CARBON	1K 5% 1/4W	R556	1-247-707-11	CARBON	390 5% 1/4W	
R493	1-249-441-11	CARBON	100K 5% 1/4W	R557	1-215-463-00	METAL	56K 1% 1/6W	
R494	1-249-413-11	CARBON	470 5% 1/4W	R558	1-215-457-00	METAL	33K 1% 1/6W	
R495	1-249-433-11	CARBON	22K 5% 1/4W	R559	1-215-453-00	METAL	22K 1% 1/6W	
R496	1-249-433-11	CARBON	22K 5% 1/4W	R560	1-215-479-00	METAL	270K 1% 1/6W	
R497	1-249-437-11	CARBON	47K 5% 1/4W	R561	1-249-435-11	CARBON	33K 5% 1/4W	
R498	1-249-433-11	CARBON	22K 5% 1/4W	R562	1-249-422-11	CARBON	2.7K 5% 1/4W	
R499	1-249-433-11	CARBON	22K 5% 1/4W	R563	1-249-428-11	CARBON	8.2K 5% 1/4W	
R500 Δ		METAL		1/6W	R564	1-215-445-00	METAL	10K 1% 1/6W
R501	1-247-711-11	CARBON	680 5% 1/4W F	R565	1-249-413-11	CARBON	470 5% 1/4W F	
R502	1-216-464-11	METAL OXIDE	18K 5% 2W F	R566	1-216-350-11	METAL OXIDE	1.2 5% 1W F	
R503	1-249-440-11	CARBON	82K 5% 1/4W	R567	1-216-350-11	METAL OXIDE	1.2 5% 1W F	
R504	1-249-426-11	CARBON	5.6K 5% 1/4W	R568	1-249-401-11	CARBON	47 5% 1/4W F	
R505	1-249-440-11	CARBON	82K 5% 1/4W	R569	1-215-869-11	METAL OXIDE	1K 5% 1W F	
R506	1-249-431-11	CARBON	15K 5% 1/4W	R570	1-247-697-11	CARBON	56 5% 1/4W F	
R507	1-215-458-00	METAL	36K 1% 1/6W	R571	1-215-867-00	METAL OXIDE	470 5% 1W F	
R508	1-247-723-11	CARBON	6.8K 5% 1/4W F					

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

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R572	1-216-355-11	METAL OXIDE	3.3 5% 1W F	R836	1-247-897-11	CARBON	560K 5% 1/4W
R573	1-247-746-11	CARBON	390 5% 1/2W	R837	1-215-469-00	METAL	100K 1% 1/6W
R574	1-249-425-11	CARBON	4.7K 5% 1/4W	R838	1-246-531-00	CARBON	270K 5% 1/4W
R575	1-247-688-11	CARBON	10 5% 1/4W F	R840	1-247-696-11	CARBON	47 5% 1/4W
R576	1-247-889-00	CARBON	270K 5% 1/4W	R842	1-249-409-11	CARBON	220 5% 1/4W
R577	1-249-396-11	CARBON	18 5% 1/4W	R843	1-247-704-11	CARBON	220 5% 1/4W
R578	1-249-433-11	CARBON	22K 5% 1/4W	R844	1-249-417-11	CARBON	1K 5% 1/4W
R579	1-249-433-11	CARBON	22K 5% 1/4W	R845	1-247-725-11	CARBON	10K 5% 1/4W
R580	1-249-433-11	CARBON	22K 5% 1/4W	R846	1-215-439-00	METAL	5.6K 1% 1/6W
R581	1-249-429-11	CARBON	10K 5% 1/4W	R847	1-249-433-11	CARBON	22K 5% 1/4W
R582	1-249-429-11	CARBON	10K 5% 1/4W	R848	1-249-433-11	CARBON	22K 5% 1/4W
R583	1-249-438-11	CARBON	56K 5% 1/4W	R850	1-249-440-11	CARBON	82K 5% 1/4W
R584	1-247-881-00	CARBON	120K 5% 1/4W	R851	1-249-439-11	CARBON	68K 5% 1/4W
R585	1-249-431-11	CARBON	15K 5% 1/4W	R852	1-249-437-11	CARBON	47K 5% 1/4W
R586	1-215-453-00	METAL	22K 1% 1/6W	R853	1-247-710-11	CARBON	560 5% 1/4W
R587	1-249-429-11	CARBON	10K 5% 1/4W	R855	1-249-414-11	CARBON	560 5% 1/4W
R588	1-247-688-11	CARBON	10 5% 1/4W F	R856	1-249-429-11	CARBON	10K 5% 1/4W
R589	1-249-417-11	CARBON	1K 5% 1/4W	R857	1-247-725-11	CARBON	10K 5% 1/4W
R590	1-249-433-11	CARBON	22K 5% 1/4W	R858	1-249-433-11	CARBON	22K 5% 1/4W
R591	1-249-433-11	CARBON	22K 5% 1/4W	R860	1-249-425-11	CARBON	4.7K 5% 1/4W
R592	1-249-417-11	CARBON	1K 5% 1/4W	R861	1-249-437-11	CARBON	47K 5% 1/4W
R593	1-249-425-11	CARBON	4.7K 5% 1/4W	R862	1-249-425-11	CARBON	4.7K 5% 1/4W
R594	1-247-719-11	CARBON	3.3K 5% 1/4W	R863	1-247-721-11	CARBON	4.7K 5% 1/4W
R595	1-249-417-11	CARBON	1K 5% 1/4W	R864	1-247-717-11	CARBON	2.2K 5% 1/4W
R596	1-247-721-11	CARBON	4.7K 5% 1/4W F	R866	1-249-426-11	CARBON	5.6K 5% 1/4W
R597	1-215-441-00	METAL	6.8K 1% 1/6W	R867	1-249-426-11	CARBON	5.6K 5% 1/4W
R598	1-247-725-11	CARBON	10K 5% 1/4W	R868	1-249-421-11	CARBON	2.2K 5% 1/4W
R599	1-247-711-11	CARBON	680 5% 1/4W F	R869	1-249-425-11	CARBON	4.7K 5% 1/4W
R800	1-215-449-00	METAL	15K 1% 1/6W	R870	1-249-426-11	CARBON	5.6K 5% 1/4W
R801	1-247-889-00	CARBON	270K 5% 1/4W	R871	1-247-723-11	CARBON	6.8K 5% 1/4W
R802	1-215-429-00	METAL	2.2K 1% 1/6W	R872	1-249-417-11	CARBON	1K 5% 1/4W
R803	1-249-465-11	CARBON	47K 5% 1/4W	R873	1-249-437-11	CARBON	47K 5% 1/4W
R804	1-247-726-11	CARBON	33K 5% 1/4W F	R874	1-215-437-00	METAL	4.7K 1% 1/6W
R805	1-249-407-11	CARBON	150 5% 1/4W	R875	1-215-453-00	METAL	22K 1% 1/6W
R806	1-249-412-11	CARBON	390 5% 1/4W	R876	1-249-429-11	CARBON	10K 5% 1/4W
R807	1-249-437-11	CARBON	47K 5% 1/4W	R877	1-249-417-11	CARBON	1K 5% 1/4W
R808	1-249-433-11	CARBON	22K 5% 1/4W	R878	1-249-429-11	CARBON	10K 5% 1/4W
R809	1-215-477-00	METAL	220K 1% 1/6W	R879	1-249-437-11	CARBON	47K 5% 1/4W
R810	1-215-467-00	METAL	82K 1% 1/6W	R880	1-249-417-11	CARBON	1K 5% 1/4W
R811	1-249-429-11	CARBON	10K 5% 1/4W	R881	1-249-423-11	CARBON	3.3K 5% 1/4W
R812	1-249-427-11	CARBON	6.8K 5% 1/4W	R883	1-249-409-11	CARBON	220 5% 1/4W
R813	1-249-405-11	CARBON	100 5% 1/4W	R884	1-249-417-11	CARBON	1K 5% 1/4W
R814	1-249-417-11	CARBON	1K 5% 1/4W	R885	1-249-469-11	CARBON	100K 5% 1/4W
R815	1-249-409-11	CARBON	220 5% 1/4W	R886	1-247-725-11	CARBON	10K 5% 1/4W
R816	1-249-429-11	CARBON	10K 5% 1/4W	R887	1-249-409-11	CARBON	220 5% 1/4W
R817	1-247-881-00	CARBON	120K 5% 1/4W	R1001	1-247-717-11	CARBON	2.2K 5% 1/4W
R818	1-247-881-00	CARBON	120K 5% 1/4W	R1002	1-249-429-11	CARBON	10K 5% 1/4W
R819	1-247-903-00	CARBON	1M 5% 1/4W	R1003	1-249-405-11	CARBON	100 5% 1/4W
R820	1-249-426-11	CARBON	5.6K 5% 1/4W	R1004	1-247-725-11	CARBON	10K 5% 1/4W
R821	1-247-881-00	CARBON	120K 5% 1/4W	R1005	1-249-437-11	CARBON	47K 5% 1/4W
R822	1-249-417-11	CARBON	1K 5% 1/4W	R1006	1-249-439-11	CARBON	68K 5% 1/4W
R823	1-247-696-11	CARBON	47 5% 1/4W F	R1007	1-249-433-11	CARBON	22K 5% 1/4W
R824	1-249-439-11	CARBON	68K 5% 1/4W	R1009	1-249-429-11	CARBON	10K 5% 1/4W
R825	1-249-437-11	CARBON	47K 5% 1/4W	R1010	1-249-415-11	CARBON	680 5% 1/4W
R826	1-249-417-11	CARBON	1K 5% 1/4W	R1011	1-249-455-11	CARBON	4.7 5% 1/4W
R827	1-249-417-11	CARBON	1K 5% 1/4W	R1012	1-216-355-11	METAL OXIDE	3.3 5% 1W F
R828	1-249-417-11	CARBON	1K 5% 1/4W	R1013	1-249-413-11	CARBON	470 5% 1/4W
R829	1-249-421-11	CARBON	2.2K 5% 1/4W	R1014	1-249-414-11	CARBON	560 5% 1/4W
R830	1-249-435-11	CARBON	33K 5% 1/4W	R1015	1-215-867-00	METAL OXIDE	470 5% 1W F
R831	1-249-438-11	CARBON	56K 5% 1/4W	R1016	1-247-698-11	CARBON	68 5% 1/4W
R832	1-249-417-11	CARBON	1K 5% 1/4W	R1017	1-249-421-11	CARBON	2.2K 5% 1/4W
R833	1-249-425-11	CARBON	4.7K 5% 1/4W	R1018	1-249-437-11	CARBON	47K 5% 1/4W
R834	1-249-425-11	CARBON	4.7K 5% 1/4W	R1019 ^Δ	1-212-857-91	FUSIBLE	10 5% 1/4W F
R835	1-247-889-00	CARBON	270K 5% 1/4W				



REF. NO.	PART NO.	DESCRIPTION	REMARK
R1020	1-249-429-11	CARBON 10K 5%	1/4W
R1021	1-249-434-11	CARBON 27K 5%	1/4W
R1022	1-249-428-11	CARBON 8.2K 5%	1/4W
R1023	1-249-428-11	CARBON 8.2K 5%	1/4W
R1024	1-247-903-00	CARBON 1M 5%	1/4W
R1025	1-249-429-11	CARBON 10K 5%	1/4W
R1026	1-249-429-11	CARBON 10K 5%	1/4W
R1027	1-215-454-00	METAL 24K 1%	1/6W
R1301	1-249-429-11	CARBON 10K 5%	1/4W
R1302	1-247-725-11	CARBON 10K 5%	1/4W
R1303	1-249-429-11	CARBON 10K 5%	1/4W
R1304	1-249-405-11	CARBON 100 5%	1/4W
R1306	1-247-700-11	CARBON 100 5%	1/4W
R1307	1-249-421-11	CARBON 2.2K 5%	1/4W

<VARIABLE RESISTOR>

RV002	1-228-993-00	RES, ADJ, CARBON 4.7K	
RV003	1-228-993-00	RES, ADJ, CARBON 4.7K	
RV004	1-228-993-00	RES, ADJ, CARBON 4.7K	
RV005	1-228-996-00	RES, ADJ, CARBON 47K	
RV006	1-228-994-00	RES, ADJ, CARBON 10K	
RV007	1-228-994-00	RES, ADJ, CARBON 10K	
RV401	1-228-995-00	RES, ADJ, CARBON 22K	
RV501	1-228-993-00	RES, ADJ, METAL GLAZE 4.7K	
RV502	1-223-102-00	RES, ADJ, WIREWOUND 120	
RV503	1-228-995-00	RES, ADJ, METAL GLAZE 22K	
RV504	1-228-990-00	RES, ADJ, CARBON 1K	
RV505	1-228-995-00	RES, ADJ, CARBON 22K	
RV506	1-228-989-00	RES, ADJ, CARBON 470	
RV507	1-224-250-99	RES, ADJ, METAL GLAZE 2.2K	
RV508	1-228-994-00	RES, ADJ, CARBON 10K	
RV509	1-228-998-00	RES, ADJ, CARBON 220K	
RV510	1-228-996-00	RES, ADJ, CARBON 47K	
RV511	1-228-989-00	RES, ADJ, CARBON 470	
RV512	1-228-995-00	RES, ADJ, CARBON 22K	
RV513	1-228-993-00	RES, ADJ, METAL GLAZE 4.7K	
RV514	1-228-996-00	RES, ADJ, CARBON 47K	
RV550	1-228-993-00	RES, ADJ, CARBON 4.7K	

<TRANSFORMER>

T502	1-437-131-00	TRANSFORMER, DRIVE	
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<THERMISTOR>

TH501	1-806-110-00	THERMISTOR	
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*1-629-151-11 XA BOARD

<CAPACITOR>

C1300	1-101-005-00	CERAMIC 0.022MF	50V
C1301	1-101-888-00	CERAMIC 68PF	50V
C1302	1-101-884-00	CERAMIC 56PF	50V
C1303	1-102-942-00	CERAMIC 5PF	50V
C1304	1-102-947-00	CERAMIC 10PF	50V
C1305	1-102-947-00	CERAMIC 10PF	50V
C1306	1-102-951-00	CERAMIC 15PF	50V
C1307	1-102-951-00	CERAMIC 15PF	50V
C1308	1-126-101-11	ELECT 100MF	16V
C1309	1-102-125-00	CERAMIC 0.0047MF	50V

REF. NO. PART NO. DESCRIPTION REMARK

<TRIMMER>			
CV3	1-141-337-11	CAP, VAR, TRIMMER	
CV4	1-141-337-11	CAP, VAR, TRIMMER	

<COIL>			
L1300	1-408-429-00	INDUCTOR	470UH
L1301	1-408-429-00	INDUCTOR	470UH
L1302	1-408-429-00	INDUCTOR	470UH
L1303	1-408-429-00	INDUCTOR	470UH

<TRANSISTOR>			
Q1300	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1301	8-729-900-89	TRANSISTOR DTC144ES	
Q1302	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1303	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1304	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1305	8-729-119-78	TRANSISTOR 2SC2785-HFE	

<RESISTOR>			
R1301	1-249-413-11	CARBON	470 5% 1/4W
R1302	1-249-415-11	CARBON	680 5% 1/4W
R1303	1-249-415-11	CARBON	680 5% 1/4W
R1304	1-249-427-11	CARBON	6.8K 5% 1/4W
R1305	1-249-413-11	CARBON	470 5% 1/4W
R1306	1-249-413-11	CARBON	470 5% 1/4W
R1308	1-249-417-11	CARBON	1K 5% 1/4W
R1310	1-249-441-11	CARBON	100K 5% 1/4W
R1311	1-249-441-11	CARBON	100K 5% 1/4W
R1312	1-249-441-11	CARBON	100K 5% 1/4W
R1313	1-249-441-11	CARBON	100K 5% 1/4W
R1320	1-249-429-11	CARBON	10K 5% 1/4W
R1321	1-249-429-11	CARBON	10K 5% 1/4W
R1322	1-249-429-11	CARBON	10K 5% 1/4W
R1323	1-249-429-11	CARBON	10K 5% 1/4W

<CRYSTAL>			
X358	1-567-505-11	OSCILLATOR, CRYSTAL	
X443	1-567-504-11	OSCILLATOR, CRYSTAL	

<CONNECTOR>			
XA1	*1-565-483-11	CONNECTOR, BOARD TO BOARD 7P	

*1-629-149-11 W BOARD

<CAPACITOR>			
C1400	1-136-169-00	FILM 0.22MF	5% 50V
C1401	1-136-153-00	FILM 0.01MF	5% 50V
C1402	1-126-101-11	ELECT 100MF	20% 16V
C1403	1-102-074-00	CERAMIC 0.001MF	10% 50V
C1404	1-126-101-11	ELECT 100MF	20% 16V
C1405	1-123-875-11	ELECT 10MF	20% 50V
C1406	1-124-902-00	ELECT 0.47MF	20% 50V

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



REF. NO. PART NO. DESCRIPTION

<DIODE>

D1400 8-719-911-19 DIODE 1SS119
 D1401 8-719-911-19 DIODE 1SS119

<IC>

IC1400 8-759-135-80 IC UPC358C

<TRANSISTOR>

Q1400 8-729-119-78 TRANSISTOR 2SC2785-HFE
 Q1401 8-729-119-76 TRANSISTOR 2SA1175-HFE
 Q1402 8-729-119-78 TRANSISTOR 2SC2785-HFE
 Q1403 8-729-119-78 TRANSISTOR 2SC2785-HFE

<RESISTOR>

R1400 1-249-437-11 CARBON 47K 5% 1/4W
 R1401 1-249-415-11 CARBON 680 5% 1/4W
 R1402 1-247-895-00 CARBON 470K 5% 1/4W
 R1403 1-247-903-00 CARBON 1M 5% 1/4W
 R1404 1-249-438-11 CARBON 56K 5% 1/4W

R1405 1-249-433-11 CARBON 22K 5% 1/4W
 R1406 1-249-411-11 CARBON 330 5% 1/4W
 R1407 1-249-433-11 CARBON 22K 5% 1/4W
 R1408 1-249-411-11 CARBON 330 5% 1/4W
 R1409 1-249-429-11 CARBON 10K 5% 1/4W

R1410 1-249-409-11 CARBON 220 5% 1/4W
 R1411 1-249-426-11 CARBON 5.6K 5% 1/4W
 R1412 1-249-411-11 CARBON 330 5% 1/4W
 R1413 1-247-883-00 CARBON 150K 5% 1/4W
 R1414 1-249-429-11 CARBON 10K 5% 1/4W

R1416 1-249-429-11 CARBON 10K 5% 1/4W
 R1417 1-249-433-11 CARBON 22K 5% 1/4W
 R1418 1-249-439-11 CARBON 68K 5% 1/4W
 R1419 1-249-440-11 CARBON 82K 5% 1/4W
 R1420 1-249-441-11 CARBON 100K 5% 1/4W

R1421 1-247-881-00 CARBON 120K 5% 1/4W

<CONNECTOR>

W1 *1-565-482-11 CONNECTOR, BOARD TO BOARD 6P
 W2 *1-564-508-11 PLUG, CONNECTOR 5P

*1-632-005-11 H BOARD

*1-564-517-11 PLUG, CONNECTOR 2P

<DIODE>

D951 8-719-920-21 DIODE LT-9220H (PVM-2044QM ONLY)

<CONNECTOR>

H1 *1-564-519-11 PLUG, CONNECTOR 4P

<SWITCH>

S951 Δ 1-554-118-22 SWITCH, PUSH (1 KEY) (DEGAUSS SWITCH)
 S952 1-554-118-00 SWITCH, PUSH (1 KEY)

REMARK REF. NO. PART NO. DESCRIPTION REMARK

*1-629-153-11 J BOARD

*1-568-106-11 PIN, CONNECTOR 7P

MISCELLANEOUS

Δ 1-237-614-12 RESISTOR ASSY, HIGH-VOLTAGE
 Δ 1-426-450-11 COIL, DEMAGNETIZATION
 Δ 1-451-349-11 DEFLECTION YOKE (Y20FZA)
 1-452-032-00 MAGNET, DISK; 10MM ϕ
 1-452-094-00 MAGNET, ROTABLE DISK; 15MM ϕ

1-452-277-00 MAGNET, BMC
 1-466-076-11 CONTROL UNIT (PVM-2042QM ONLY)
 1-466-198-11 CONTROL UNIT (PVM-2044QM ONLY)
 1-509-718-00 DIN 4P SOCKET (PVM-2044QM ONLY)
 1-543-604-11 CORE, RING
 1-544-063-11 SPEAKER

Δ 1-574-389-12 CORD, POWER (WITH CONNECTOR)

S901 Δ 1-554-967-12 SWITCH, PUSH (AC POWER) (1 KEY)
 V901 Δ 8-736-122-05 PICTURE TUBE (M49KGH21X)

ACCESSORIES AND PACKING MATERIALS

PART NO. DESCRIPTION REMARK

X-4391-815-1 BRACKET ASSY
 *3-704-318-01 BAG, PROTECTION
 3-750-719-11 MANUAL, INSTRUCTION
 *4-393-327-01 PLATE, NUMBER, TALLY (PVM-2044QM ONLY)
 *4-393-346-01 CUSHION (UPPER) (ASSY)
 *4-393-347-01 CUSHION (LOWER) (ASSY)
 *4-393-353-01 INDIVIDUAL CARTON (PVM-2044QM ONLY)
 *4-393-355-01 INDIVIDUAL CARTON (PVM-2042QM ONLY)
 7-682-247-09 SCREW +K 3X6