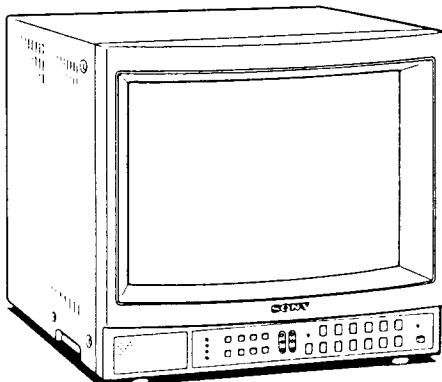
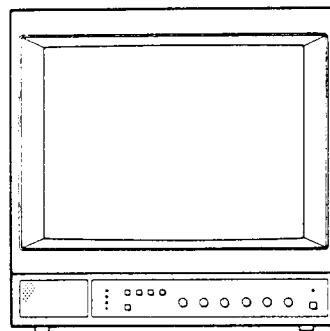


PVM-1440QM / 1442QM / 1444QM

SERVICE MANUAL



(PVM-1440QM/1442QM)



(PVM-1444QM)

AEP Model

PVM-1440QM

Chassis No. SCC-C57A-A

PVM-1442QM

Chassis No. SCC-C56A-A

PVM-1444QM

Chassis No. SCC-C55A-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 4%

V. linearity error

Less than 5%

Convergence

Central area: 0.6 mm

Peripheral area: 0.8 mm

Raster size stability

H: 1.0%, V: 1.5%

High voltage regulation

3%

Audio output

0.6 W (Max.)
PVM-1440QM/PVM-1442QM: EBU

PVM-1440QM: P-22

Chromacity coordinates (EBU only)

	X	Y
Red	0.640	0.330
Green	0.290	0.600
Blue	0.150	0.060

(tolerance ± 0.01)

Color temperature

6,500°K/9,300°K (+8MPCD), selectable

AC regulation range

220 - 240 V AC, 50/60 Hz

Power consumption

Approx. 75 Wh

Inputs

For all models

VIDEO IN: BNC connector
AUDIO IN: phono jack
VTR: 8-pin connector
Y/C-INPUT
VIDEO: 4-pin connector
AUDIO: phono jack

For Service Manuals **MAURITRON SERVICES**

8 Cherry Tree Road, Chinnor
Oxfordshire, OX9 4QY.
Tel (01844) 351694
Fax (01844) 352554
email:- mauritron@dial.pipex.com

PVM-1444QM 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-1442QM 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

CTRL S: Minijack

PVM-1440QM

ANALOG RGB signal through AV: 0.7 Vp-p, ± 6 dB, non composite,
75 ohms terminated

— Continued on next page —

TRINITRON® COLOR VIDEO MONITOR
SONY®



Outputs

For all models

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

PVM-1444QM only

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

PVM-1442QM only

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

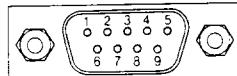
General

Dimensions Approx. 346 x 340 x 412 mm (w/h/d)
(13½ x 13½ x 16½ inches)

Weight Approx. 16.5 kg (36 lb 6 oz)

Pin assignment

DIGITAL RGB connector (9-pin)



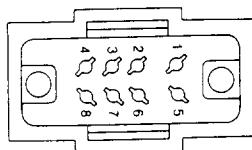
Pin No.	Signal	Signal level
1	GND (ground)	GND
2	GND for the signal	GND
3	Red input	Positive polarity (TTL level)
4	Green input	—
5	Blue input	—
6	Intensity	—
7	NC (no connection)	—
8	H-SYNC	Positive or negative polarity (TTL level)
9	V-SYNC	Same polarity as H-SYNC (TTL level)

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.

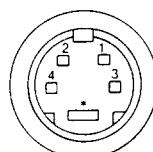
If the specific intensity function, such as that of an IBM microcomputer, is used, set the internal switch on the Qd board to the A position, and feed the intensity control signal to Pin No. 6.

VTR connector (8-pin)



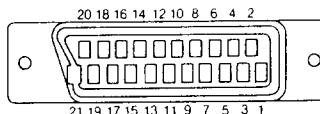
Pin No.	Signal	Description
1	Audio input	-5 dBs, high input impedance (more than 47 kilohms)
2	Video input	Composite 1 Vp-p, sync negative, 75 ohms
3	GND	GND
4	NC	—
5	GND	GND
6	GND	GND
7	GND	GND
8	GND	GND

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



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.

AV (EURO-TV) connector (21-pin)



Pin No.	Signal	Description
1	Audio output B (right)	Standard level: 0.5 Vrms Output impedance: Less than 1 k ohm *
2	Audio input B (right)	Standard level: 0.5 Vrms Input impedance: More than 10 k ohms *
3	Audio output A (left)	Standard level: 0.5 Vrms Output impedance: Less than 1 k ohm *
4	GND for audio	GND
5	GND for blue input	GND
6	Audio input A (left)	Standard level: 0.5 Vrms Input impedance: More than 10 k ohms *
7	Blue input	0.7 V ± 3 dB, 75 ohms
8	Function select (AV control)	High state (9.5 – 12 V): Peri mode Low state (0 – 2 V): TV mode Input impedance: More than 10 k ohms Input capacitance: Less than 2 nF

Pin No.	Signal	Description
9	GND for green input	GND
10	NC	
11	Green input	(Same as Pin 7)
12	NC	
13	GND for red input	GND
14	GND for blanking input	GND
15	Red input	(Same as Pin 7)
16	Blanking input	High state (1 – 3 V) Low state (0 – 0.4 V) Input impedance: 75 ohms
17	GND for video output	GND
18	GND for video input	GND
19	Video output * *	1 V ± 3 dB, 75 ohms Sync: 0.3 V (±3 dB)
20	Video input	1 V ± 3 dB, 75 ohms Sync: 0.3 V (±3 dB)
21	Common GND (plug, shield)	GND

* at 20Hz – 20 kHz
** Outputs the video signal fed through the LINE A connector, when the AV input mode is selected.

Design and specifications subject to change without notice.

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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 CON-
NECTED 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 PRO-
CEDURES WHENEVER CRITICAL COMPONENTS ARE
REPLACED OR IMPROPER OPERATION IS SUSPECTED.

SECTION 1

GENERAL

1-1. FEATURES

This chart shows the various features which your model has (indicated as "Yes").

Features	PVM-1444QM	PVM-1442QM	PVM-1440QM
Automatic white balance circuit	Yes	Yes	Yes
EBU phosphor	Yes	Yes	No
Black-tinted Trinitron tube	No	No	Yes
Super Fine Pitch Trinitron picture tube	Yes	Yes	No
Analog RGB/component input/output	Yes	No	No
Analog RGB input/output	No	Yes	No
Digital RGB input (9-pin)	No	Yes	No
Y/C input (4-pin DIN)	Yes	Yes	Yes
VTR input (8-pin)	Yes	Yes	Yes
Control S input/output	Yes	Yes	No
Automatic release of BNC-type input connector termination	Yes	Yes	Yes
Color systems available	PAL, SECAM, NTSC ₁₅₆ , NTSC _{4.43}		
Comb filter	Yes	Yes	Yes
Blue only mode	Yes	Yes	Yes
Underscan mode	Yes	Yes	No
Horizontal/vertical delay mode	Yes	Yes	No
External sync input/output	Yes	Yes	No
Color temperature selector	Yes	Yes	Yes
Light-touch picture adjustment buttons	Yes	Yes	No
AV (EURO-TV) connector (21-pin)	No	No	Yes
EIA standard 19-inch rack mounting	Yes	Yes	Yes

Automatic white balance circuit

The automatic white balance circuit compensates for the beam distortion, secular distortion of the cathode-ray tube, etc., and always reproduces the same white display on the screen. This allows an extended use of the monitor.

Super Fine Pitch Trinitron picture tube

(PVM-1444QM/1442QM only)
The Super Fine Pitch Trinitron picture tube (0.25 mm aperture grill) gives high resolution picture. Horizontal resolution is more than 600 TV lines at the center of the picture. When used as a character display, up to 2,000 characters (80 characters/line × 25 lines) can be displayed with great clarity.

Analog RGB/component connector (PVM-1444QM only)

Analog RGB and component signals of a video equipment can be input through this connector. The signals are selected by the COMPO/RGB selector on the rear panel.

Analog RGB connector (PVM-1442QM only)

Analog RGB signal of a video equipment can be input through this connector.

Digital RGB input connector (PVM-1442QM only)

Digital RGB signal from a microcomputer can be input through this connector.

Y/C input connector

The video signal split into the chrominance signal (C) and the luminance signal (Y) can be input through this connector, eliminating the interference between the two signals which tends to occur in a composite video signal and assuring the video quality.

VTR input connector

When connected to a VTR having the 8-pin TV connector, video and audio signals can be fed through this connector with a single cable.

Control S connector (except PVM-1440QM)

When this connector is connected to the "control S" output of other equipment, the remote controls of the aperture, brightness, chroma, phase, contrast and volume settings are possible.

Automatic release of BNC-type connector termination

The BNC-type input connector is terminated at 75 ohms inside when the BNC-type output connector is open. When a cable is connected to the BNC-type output connector, the 75-ohm termination is automatically released, and the signal input through the IN connector is output from the corresponding OUT connector.

Four color systems available

The monitor can display PAL, SECAM, NTSC₁₅₆ and NTSC_{4.43*} signals. The appropriate color system is selected automatically.

- * A signal of NTSC_{4.43} is obtained by playing back NTSC-recorded video cassettes with a video tape recorder/player especially designed for use with this system.

Comb Filter

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

Blue only mode

In the blue only mode, an apparent monochrome display is obtained with all three cathodes driven with a blue signal. This facilitates color saturation and phase adjustments and observation of VTR noise.

Underscan mode (except PVM-1440QM)

The signal normally scanned outside of the screen can be monitored in the underscan mode.

Note

The bright scanning lines which may appear on the top edge of the screen when the monitor is in the underscan mode are caused by an internal test signal, rather than the input signal.

Horizontal/vertical delay mode (except PVM-1440QM)

The horizontal and vertical sync signals can be checked simultaneously in the H/V delay mode.

External sync input (except PVM-1440QM)

When the EXT SYNC (or ANALOG/DIGITAL (EXT SYNC)) button is depressed, the monitor can be operated on the sync signal supplied from an external sync generator.

Color temperature selector

Color temperature of either 9,300°K or 5,500°K is selectable with the COLOR TEMP selector. For precise adjustment, use the BIAS and GAIN adjustment controls (except PVM-1440QM).

Light-touch picture adjustment buttons (except PVM-1440QM)

The aperture, brightness, chroma, phase, contrast and volume buttons can be adjusted by touching the buttons lightly. The adjusted settings will be stored in memory even when the monitor is turned off.

AV (EURO-TV) connector (PVM-1440QM only)

Analog RGB signals can be input through the 21-pin AV (EURO-TV) connector. This allows connection of peripheral equipments such as decoders.

Superimposition (PVM-1440QM only)

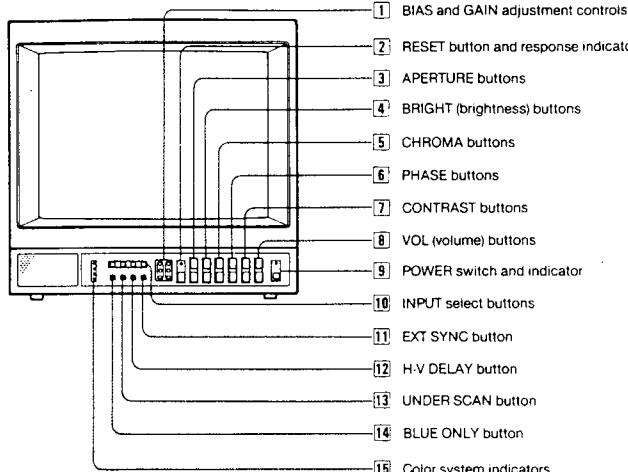
The data fed through the AV (EURO-TV) connector can be superimposed on the picture from the LINE A, LINE B or Y/C/VTR input.

EIA standard 19-inch rack mounting

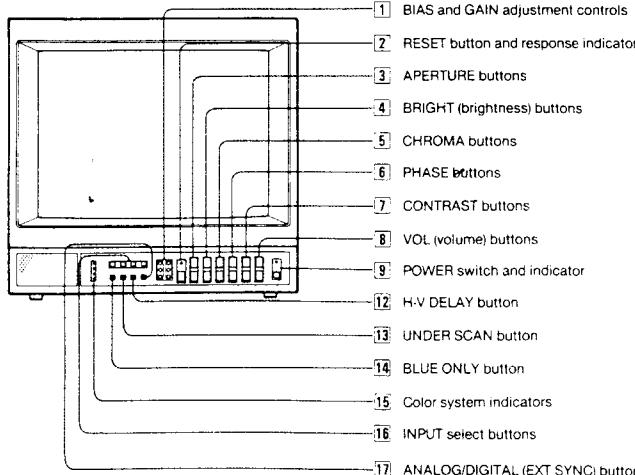
By using an optional MB-502A mounting bracket, the monitor can be mounted in an EIA standard 19-inch rack. An optional SLR-102 slide rail is also available. For details on mounting, see the appropriate instruction manual.

1-2. LOCATION AND FUNCTION OF PARTS AND CONTROLS

Front panel PVM-1444QM



Front panel PVM-1442QM



1 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.

2 RESET button and response indicator

Press to return the PHASE, CHROMA, BRIGHT and APERTURE control settings to the factory set levels.
The response indicator flashes when the above buttons or the RESET button is pressed.

3 APERTURE buttons

Press + for more sharpness or - for less.

4 BRIGHT (brightness) buttons

Press + for more brightness or - for less.

5 CHROMA buttons

Press + for more color intensity or - for less.

6 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.

7 CONTRAST buttons

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

8 VOL (volume) buttons

Press + for more volume or - for less.

9 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.

10 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.

RGB: for a signal fed through the ANALOG RGB connectors or DIGITAL RGB connector.

11 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).

11 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 fed through the EXT SYNC connector on the rear panel, depress the button (EXT).

12 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.

13 UNDER SCAN button

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

14 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.

15 Color system indicators

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

16 INPUT select buttons

Press to select the program to be monitored.

A: for a signal fed through the LINE A connectors.

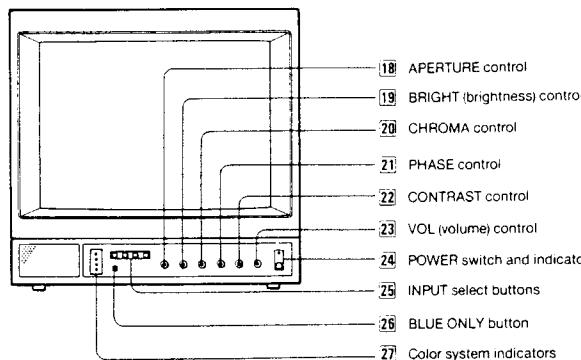
B: for a signal fed through the LINE B connectors.

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.

RGB: for a signal fed through the ANALOG RGB connectors or DIGITAL RGB connector.

Front panel PVM-1440QM



18 APERTURE control

Turn toward + for more sharpness or toward - for less.

19 BRIGHT (brightness) control

Turn toward + for more brightness or toward - for less. Normally set this control at the center detent position.

20 CHROMA control

Turn toward + for more color intensity or toward - for less.

21 PHASE control

Turn toward GRN (green) to make the skin tones greenish or toward PUR (purple) to make them purplish.

Note

The APERTURE, CHROMA, PHASE control settings have no effect on the pictures input through the ANALOG RGB IN connector.

22 CONTRAST control

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

23 VOL (volume) control

Turn toward + for more volume or toward - for less.

24 POWER switch and indicator

Same as ③.

25 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.

AV: for a signal fed through the AV (EURO-TV) connector.

To superimpose the data fed through the AV (EURO-TV) connector over the picture being displayed:

1 Press A, B or Y/C/VTR to display the picture on which the data is to be superimposed.

Be sure the SUPERIMPOSE selector on the rear panel is set to ON.

2 Press AV.

The data is superimposed over the picture.

26 BLUE ONLY button

Same as ⑯.

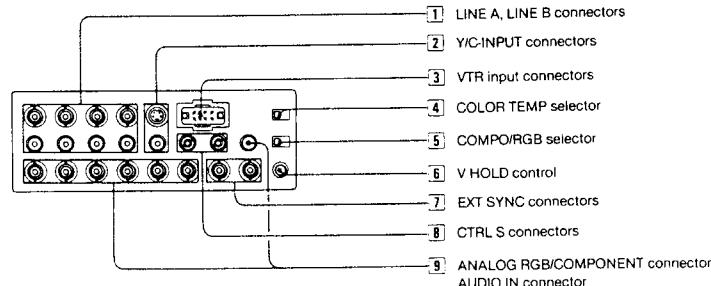
27 Color system indicators

Same as ⑮.

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-1440QM	• LINE A, LINE B • Y/C • VTR	Yes	Yes	Yes	Yes (NTSC only)	Yes	Yes
	Analog RGB	No	Yes	No	No	Yes	Yes
	Component	Yes	Yes	Yes	No	Yes	Yes
PVM-1442QM	• LINE A, LINE B • Y/C • VTR	Yes	Yes	Yes	Yes (NTSC only)	Yes	Yes
	• Digital RGB • Analog RGB	No	Yes	No	No	Yes	No
PVM-1440QM	• LINE A, LINE B • Y/C • VTR	Yes	Yes	Yes	Yes (NTSC only)	Yes	Yes
	AV (RGB signal only)	No	Yes	No	No	Yes	No

Rear panel PVM-1444QM**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 (4-pin)

VIDEO: Connect to the Y/C separate output of a video camera or a VTR.

AUDIO: Connect to the audio output of a video camera or a VTR.
To monitor the input signal fed through these connectors, press the Y/C/VTR 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/C/VTR 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, 9300°K or 6500°K.

5 COMPO (component)RGB selector

Set to COMPO to monitor component signal fed through the R/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 V HOLD (vertical hold) control

Turn to stabilize the picture if it rolls vertically.

7 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 monitor, the 75-ohms termination of the input is released, and the signal input to the IN connector is output from this connector.

8 CTRL S (control S) connectors (minijack)

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 (miniplug → miniplug).

9 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/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.

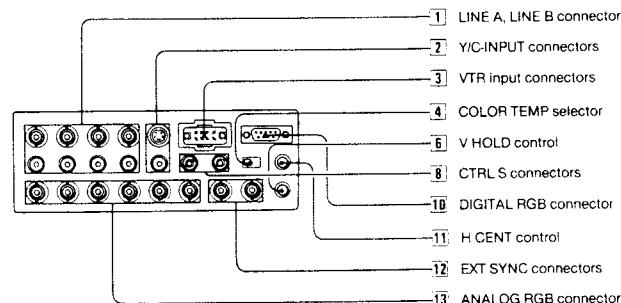
R/R-Y OUT, G/Y OUT, B/B-Y OUT

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/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: Connect to the audio output of video equipment when the analog R/G/B or component signal is input.

Rear panel PVM-1442QM**2 Y/C INPUT connectors (4-pin)**

VIDEO: Connect to the Y/C separate output of a video camera or a VTR.

AUDIO: Connect to the audio output of a video camera or a VTR.
To monitor the input signal fed through these connectors, press the Y/C/VTR 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/C/VTR 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

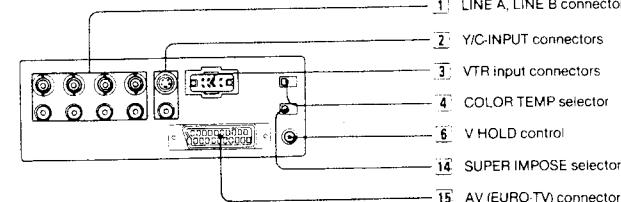
Select the color temperature position, 9300°K or 6500°K.

5 COMPO (component)RGB selector

Set to COMPO to monitor component signal fed through the R/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 V HOLD (vertical hold) control

Turn to stabilize the picture if it rolls vertically.

Rear panel PVM-1440QM**4 COLOR TEMP (temperature) selector**

Select the color temperature position, 9300°K or 6500°K.

5 COMPO (component)RGB selector

Set to COMPO to monitor component signal fed through the R/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 V HOLD (vertical hold) control

Turn to stabilize the picture if it rolls vertically.

[10] 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.

[11] H CENT (horizontal centering) control

When a digital R/G/B signal is monitored, turn to center the picture if it is decentered.

[12] 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.

[13] 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.

[14] SUPERIMPOSE selector

Normally set to ON.

Set to OFF to display the analog RGB signal fed through the AV (EURO-TV) connector.

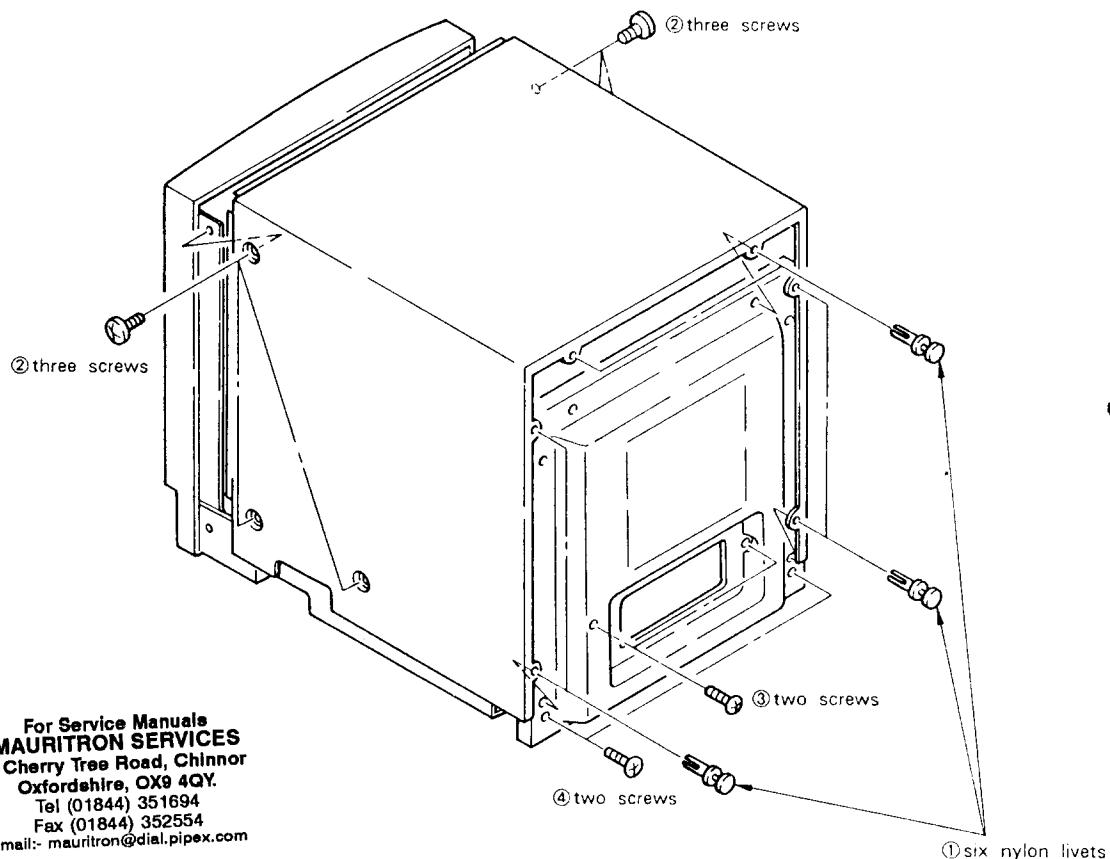
[15] AV (EURO-TV) connector (21-pin)

Connect to the 21-pin multiconnector of decoders.

SECTION 2

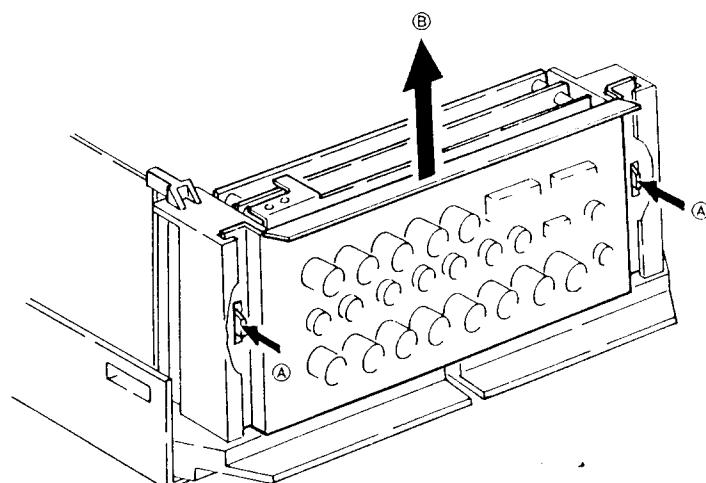
DISASSEMBLY

2-1. REAR COVER AND TOP COVER REMOVAL



2-2. TERMINAL BOARD REMOVAL

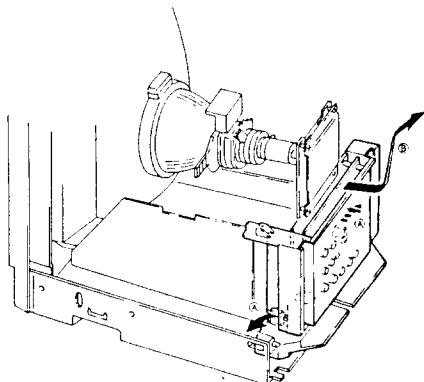
Note : When you remove terminal board, pull out A board a short distance.



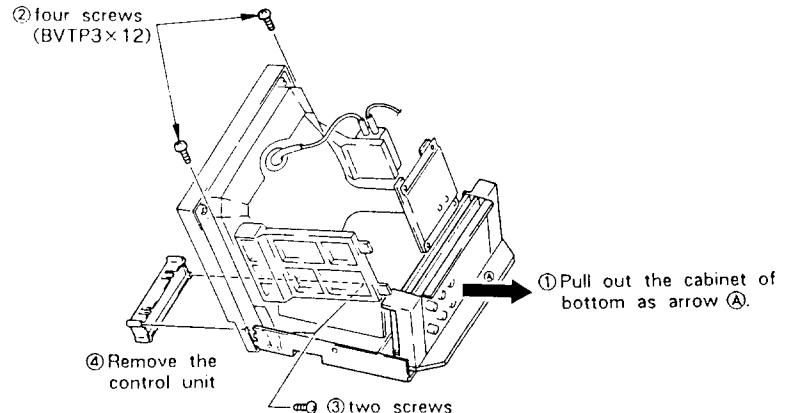
① Remove the terminal board as arrow ⑧ while push the two claws as arrow ⑨.

2-3. BRACKET OF TERMINAL BOARD REMOVAL

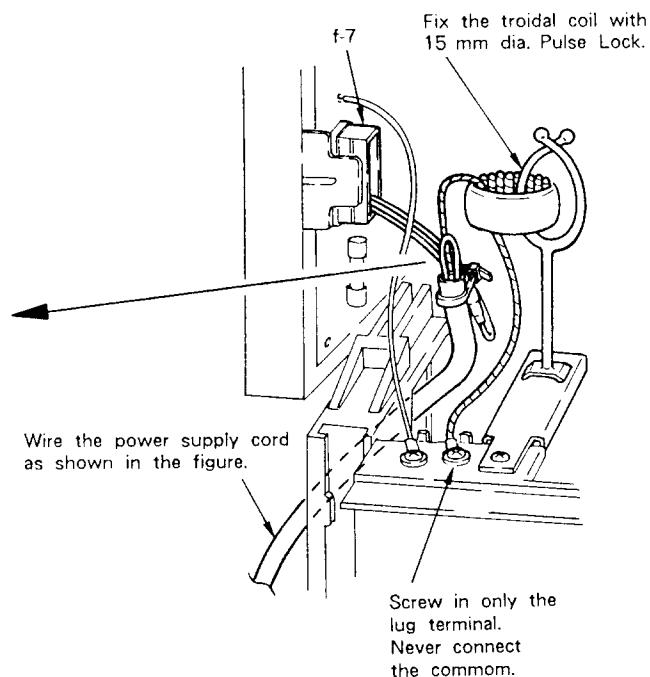
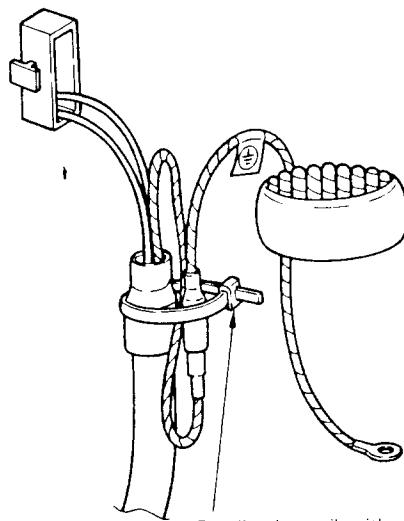
① Remove the bracket of terminal board as arrow ⑧ while extend two claws as arrow ⑨.



2-4. CONTROL UNIT REMOVAL



2-5. NOTE ON WIRING THE TROIDAL COIL AND IT'S PERIPHERAL PART



2-6. PICTURE TUBE REMOVAL

NOTE : Caution for ANODE CAP installation.

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

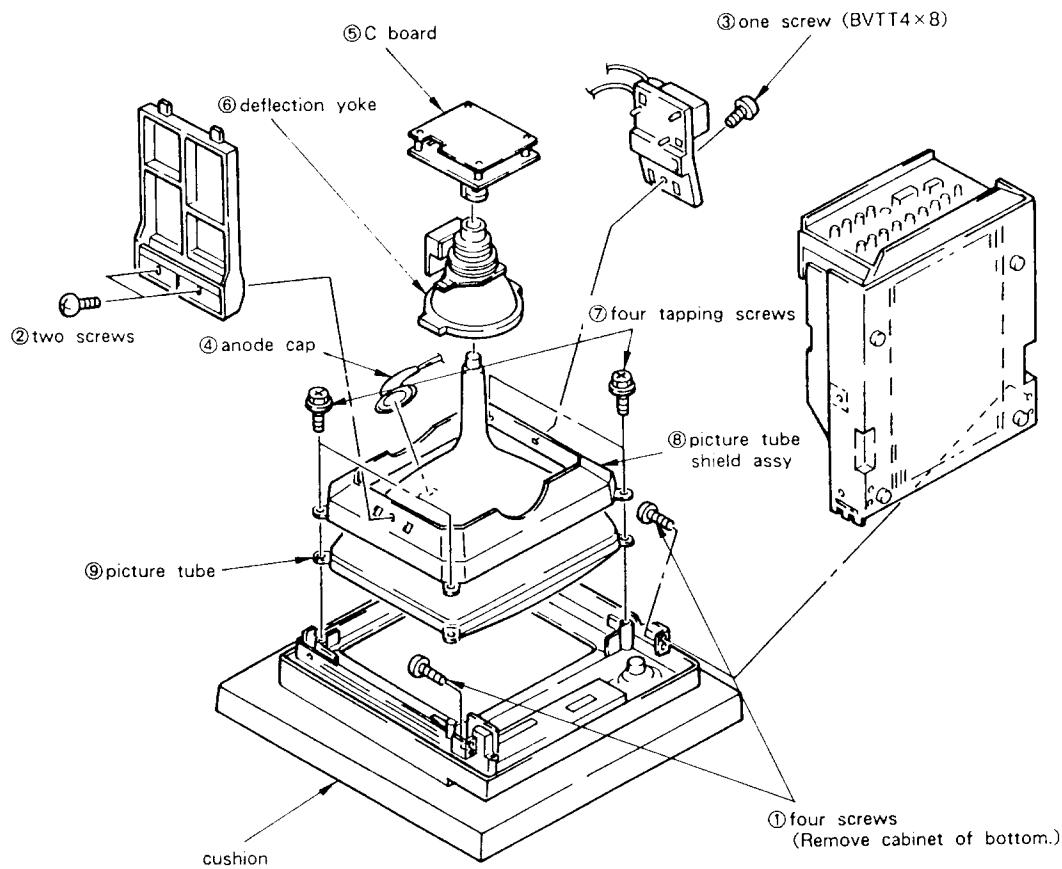
ADHERING PROCEDURE OF ANODE CAP.

1. Clean PICTURE TUBE ANODE CAP with ethanol to remove original RTV.
2. Dry clean face with air.

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

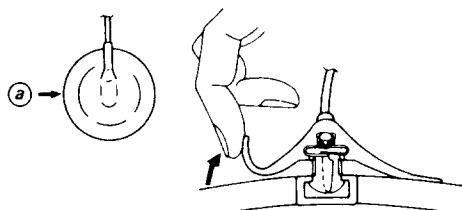
Part. No.	Description
7-322-065-19	Silicone (RTV) KE-490W

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

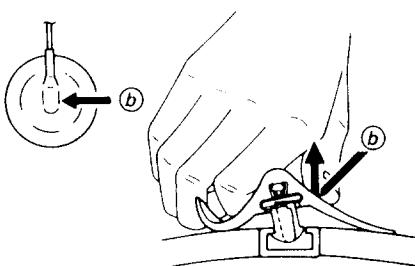


ANODE CAP REMOVAL

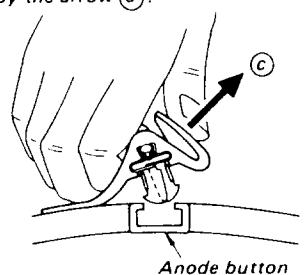
• Removing Procedures



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



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



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 (c).

SECTION 3

SET-UP ADJUSTMENTS

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

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

CONTRAST control 80%

BRIGHTNESS control 50%

Perform the adjustments in order as follows :

3-1. Beam Landing

3-2. Convergence

3-3. Focus

3-4. White Balance

Note: Test Equipment Required.

1. Color Bar/Pattern Generator

2. Degausser

3. Color Analyzer (Minolta)

4. Luminance Level Meter

5. Oscilloscope

Precaution

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

3-1. BEAM LANDING

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

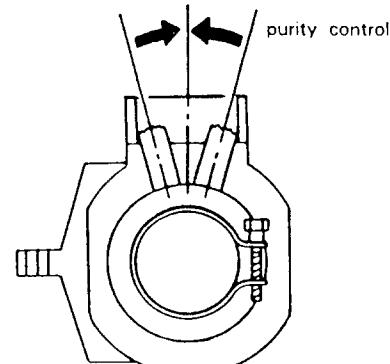
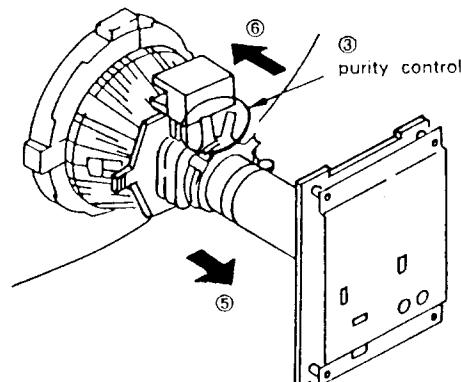


Fig. 3-1

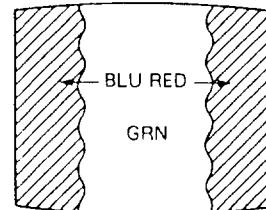


Fig. 3-2

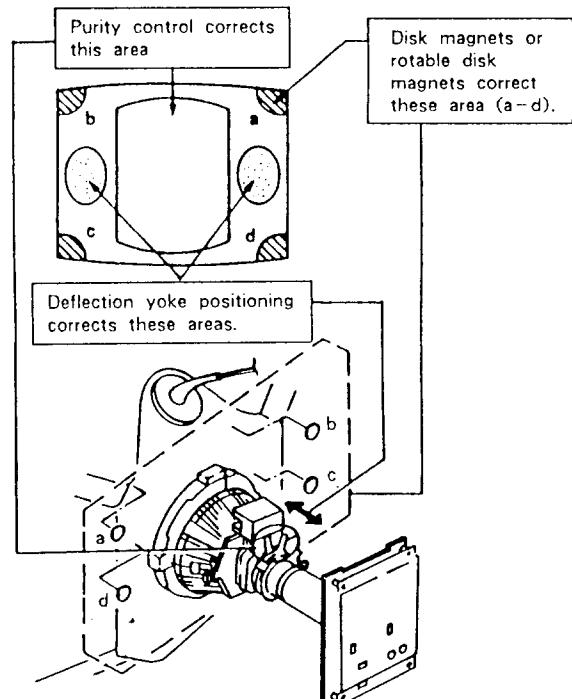
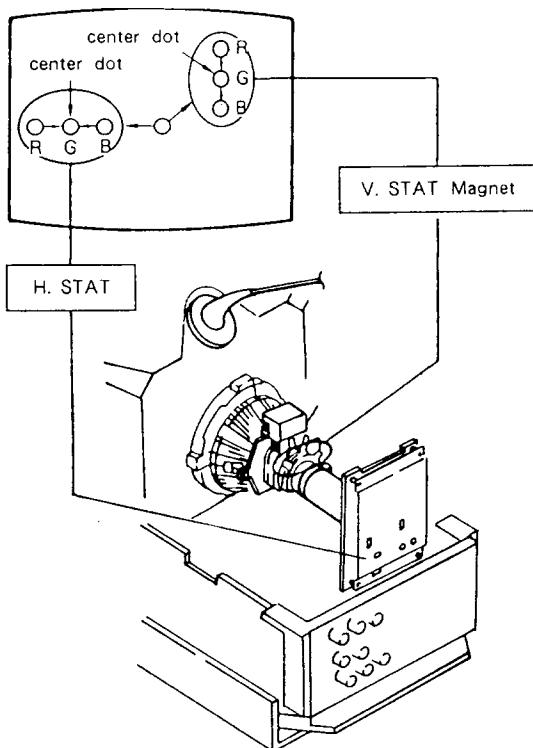


Fig. 3-3

3-2. CONVERGENCE

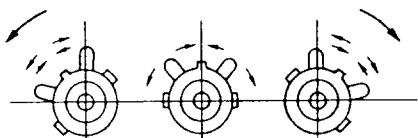
- (1) Horizontal and Vertical Static Convergence Adjustment on the Center of Screen.
- Before starting, perform V. SIZE, V. CENT, H. SIZE, H. CENT and Screen Distortion adjustment rightly. (Static Convergence Adjustment)

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



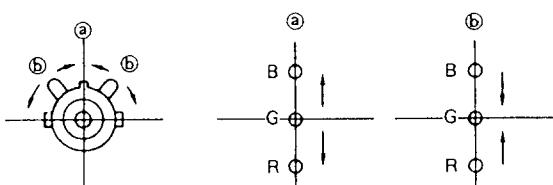
* If the red, green and blue dots do not coincide on the center of screen with H. STAT VR, perform adjustment using V. STAT at the same time while tracking.

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



- When the V. STAT magnet is moved in the direction of arrow ④ and ⑤, red, green and blue dots move as shown below.

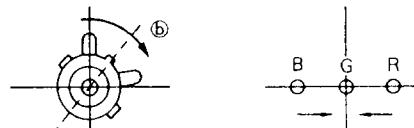
- When moving the V. STAT Magnet open or close.



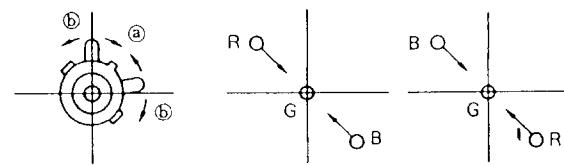
- When moving the V. STAT magnet counterclockwise.



- When moving the V. STAT magnet clockwise.



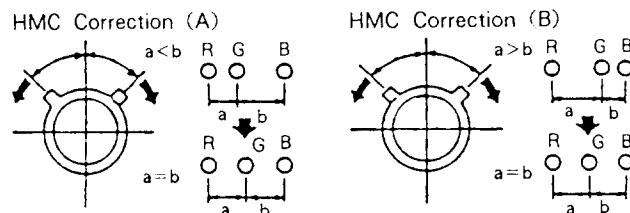
- When tilt the V. STAT magnet and open or close.



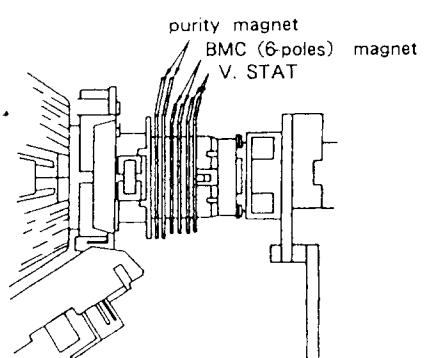
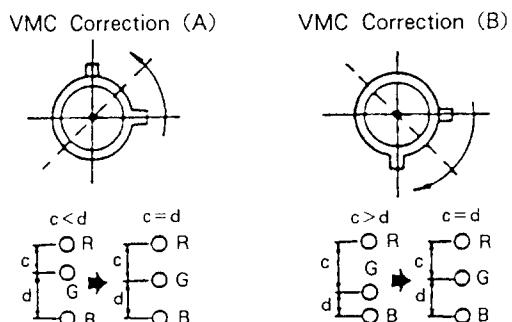
* If the red and green dots do not coincide with blue dot, adjustment with BMC (6-poles) magnet.

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

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



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

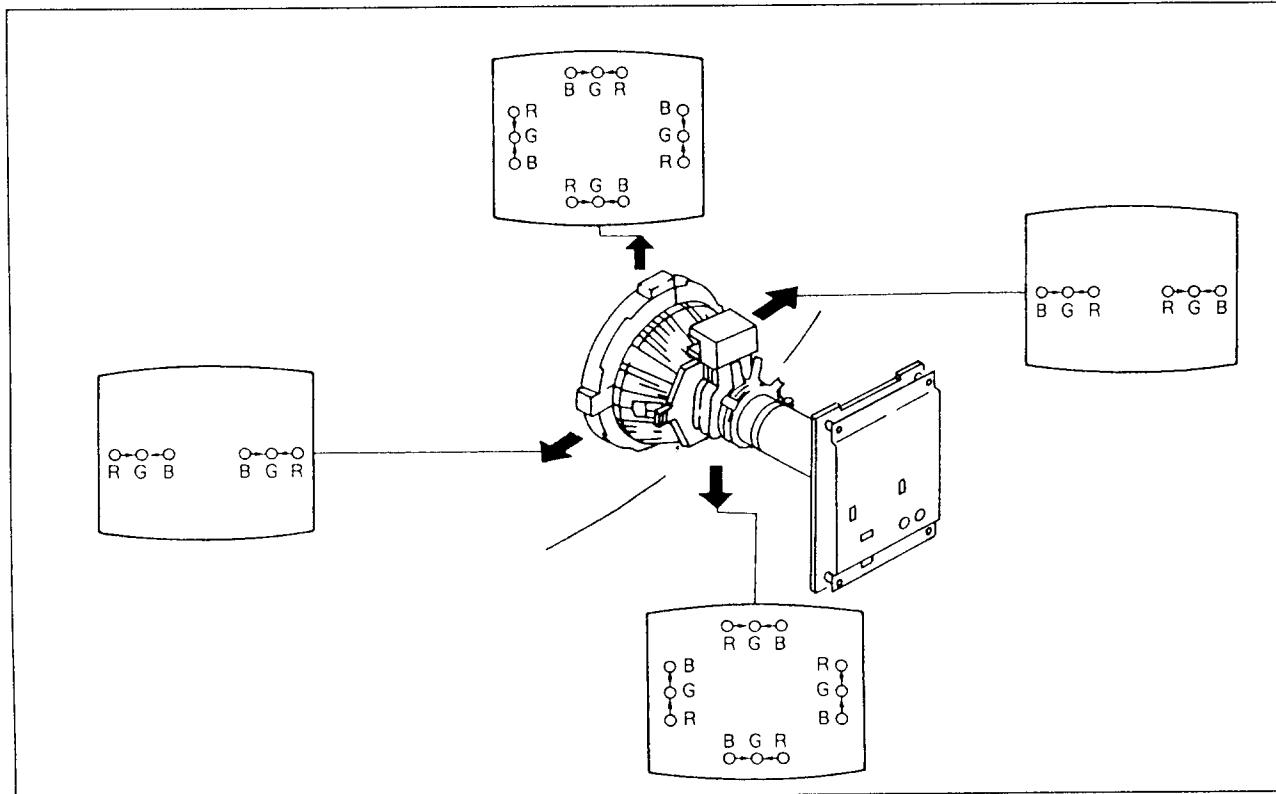


(2) Horizontal and Vertical Dynamic Convergence

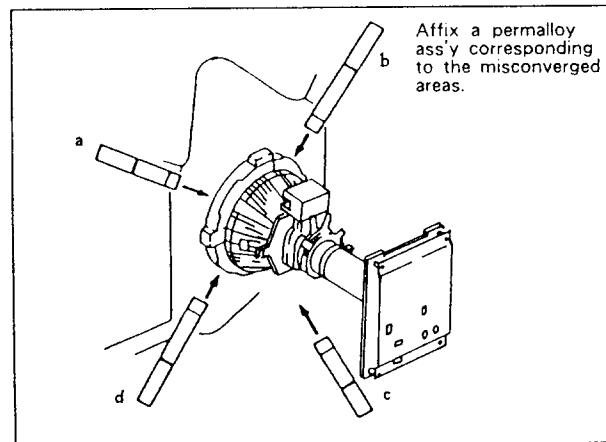
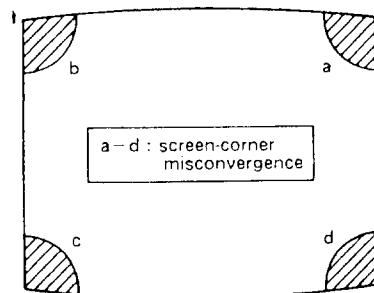
Adjustment the environs of the Screen

(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

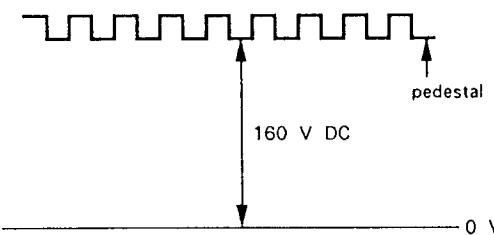


3-3. FOCUS

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

3-4. WHITE BALANCE**(Screen (G2) Voltage)**

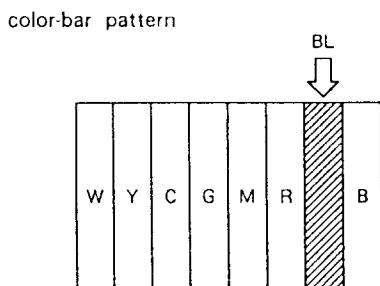
1. Receive a dot signal with the pattern generator.
2. Switch over COLOR TEMP to 6500° K.
3. Using oscilloscope, adjust with RV1710 (SUB BRT) on V board so that the green cathode voltage against ground becomes 160 V DC.
4. Similarly, adjust with RV1704 (B BKG) and RV1705 (R BKG) on V board so that the blue and red cathode voltages become 160 V DC.



5. Observing the screen, adjust with RV709 (SCREEN) on C board so that the back-ground of the dot signal is bright dimly.

(White Balance)

1. Receive a color-bar pattern signal with the pattern generator, and to make black and white screen by chroma switch off.
2. • BRIGHTNESS 50%
• CONTRAST Minimum
• CHROMA 50%
• DRIVE volume
(V BOARD) mechanical center
• BKG volume
(V BOARD) mechanical center
3. Adjust RV1710 (SUB BRIGHT) so that the blue stripe portion on the color-bar pattern signal is bright dimly.



4. Receive an entirely white signal from the pattern generator.
5. CONTRAST 70%
6. Using the luminance level meter, adjust the luminance level of the pattern generator becomes 8 Nit. (The condition the screen is bright dimly.)

7. Adjust with the color analyzer the white balance.
8. Reset the luminance level of the pattern generator, and adjust the white balance. (High light condition.)

SECTION 4**SAFETY RELATED ADJUSTMENTS****CONFIRMATION WHEN REPLACING H.V.R
(High Voltage Resistor)**

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

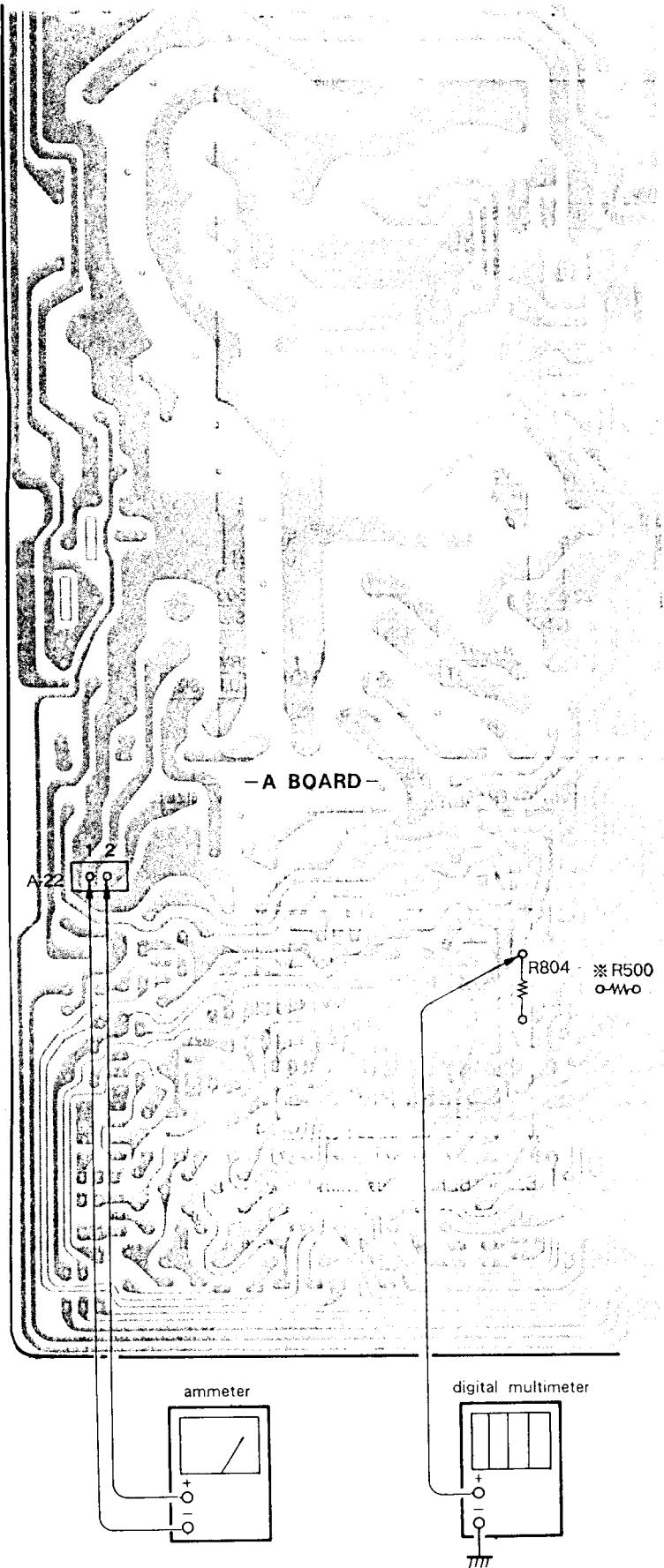
1. Receive an entire white signal.
2. • CONTRAST Maximum
• BRIGHTNESS Maximum
3. Connect a digital multimeter to the A-20 connector side lead of R804.
4. Confirm the voltage is 14.1 ± 1.0 V DC.

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

The following adjustments should always be performed when replacing the following components.

IC501, Q503, Q504, Q505, Q506,
D509, D510, C505, C520, C524,
C525, C526, C527, C528, C529,
C530, C531, R500, R506, R516, } on A board
R517, R518, R519, R520, R521,
R522, R523, R524, R525, R526,
R528, R804, NL501, HVR

1. Receive an entire white signal.
2. • CONTRAST Maximum
• BRIGHTNESS Maximum
3. Connect a digital multimeter to the A-20 connector side lead of R804.
4. Confirm the voltage is 14.1 ± 1.0 V 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 is $70 \pm 30 \mu\text{A}$.
8. Apply an external DC voltage gradually to the A-20 connector side lead of R804, and when the voltage becomes 16.4 ± 0.1 V DC, confirm the HOLD-DOWN circuit operates immediately and raster disappears.
9. With the same procedure of item 8, when the voltage becomes 15.8 ± 0.1 V DC, confirm the HOLD-DOWN circuit doesn't operate.
10. Receive an entire white signal.
11. Adjust with BRIGHTNESS and CONTRAST volumes so that the current is $600 \pm 40 \mu\text{A}$.
12. Apply DC voltage to the A-20 connector side lead of R804, and when the voltage becomes 15.8 ± 0.1 V DC, confirm the HOLD-DOWN circuit operates immediately and raster disappears.
13. With the same procedure of item 8, when the voltage becomes 15.2 ± 0.1 V DC, confirm the HOLD-DOWN circuit doesn't operate.
14. When step 4 to 13 is not satisfied, readjustment should be performed by altering the resistance value of R500 (*).

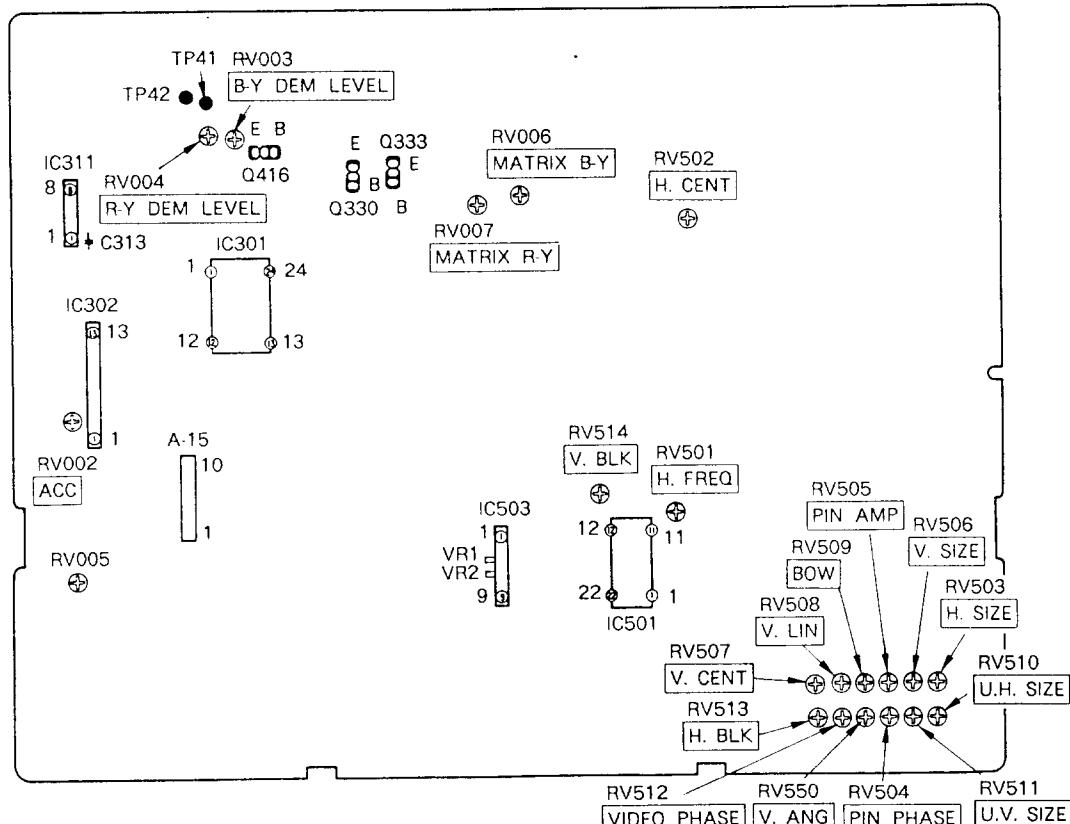


SECTION 5

CIRCUIT ADJUSTMENTS

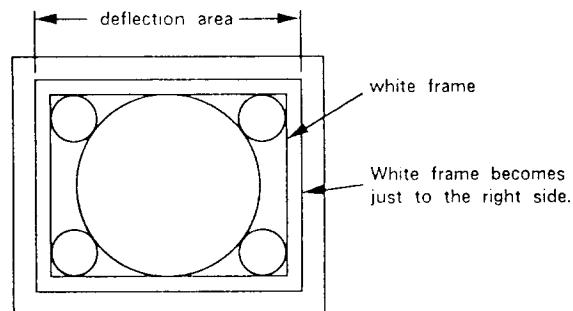
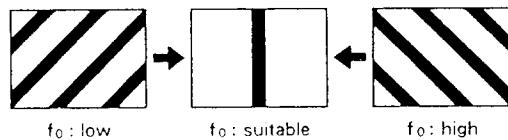
5-1. A BOARD ADJUSTMENTS

-A BOARD (COMPONENT SIDE) -



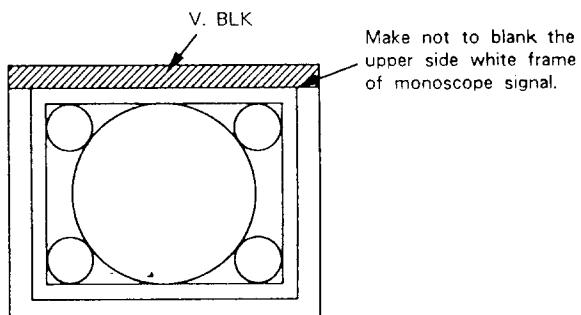
HORIZONTAL OSCILLATION FREQUENCY ADJUSTMENT (RV501)

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



6. V. BLK Adjustment (RV514)

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

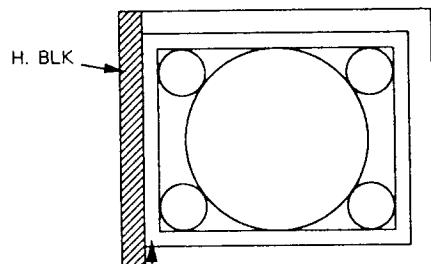


H-V BLK ADJUSTMENTS (RV510, RV512, RV513, RV514)

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.

7. H. BLK Adjustment (RV513)

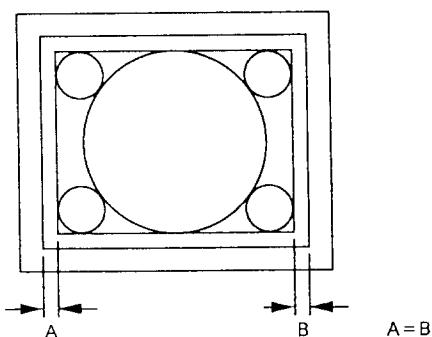
- (1) Adjust with RV513 (H. BLK) so that the vertical line of the white frame of monoscope signal is blanked as following figure.



Make to blank the vertical line of the white frame of monoscope signal.

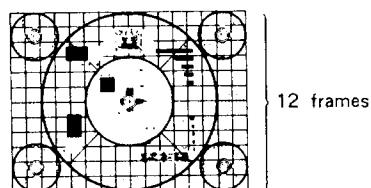
8. Screen Phase Adjustment (RV512)

- (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.

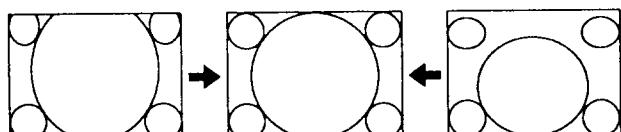


**VERTICAL DEFLECTION PART ADJUSTMENTS
 (RV506, RV507, RV508, RV511)**

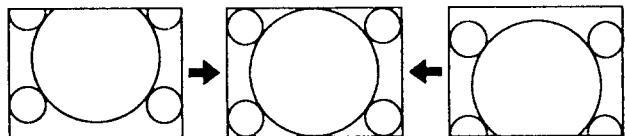
1. Receive a monoscope signal.
2. • CONTRAST 70%
- BRIGHTNESS 50%
3. Adjust RV506 (V. SIZE) so that the vertical size of monoscope signal becomes 12 frames.



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



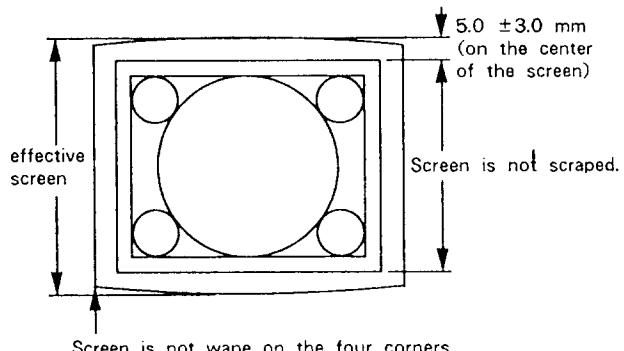
5. Adjust RV507 (V. CENT) the vertical position.



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.

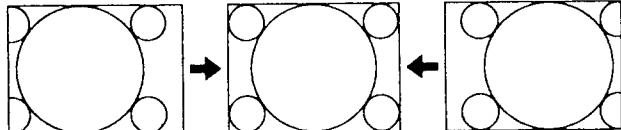
8. Adjust with RV511 (U.V. SIZE) as follows.



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

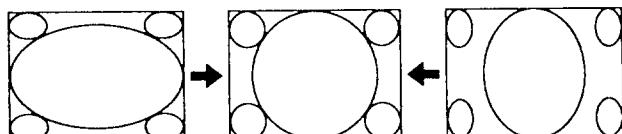
1. Receive a monoscope signal.
2. • CONTRAST 70%
- BRIGHTNESS 50%
3. H. CENT Adjustment (RV502)

- (1) Adjust RV502 (H. CENT) the horizontal position.



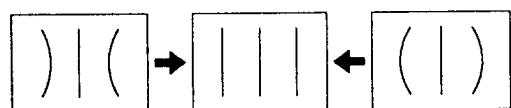
4. H. SIZE Adjustment (RV503)

- (1) Adjust RV503 (H. SIZE) the horizontal size.

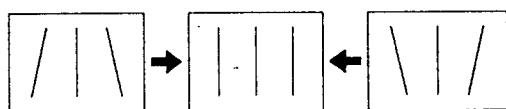


5. PIN AMP, PIN PHASE, V. ANG, BOW Adjustments (RV505, RV504, RV509, RV550)

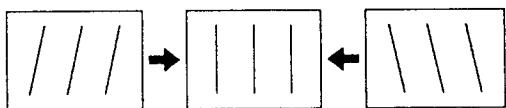
- PIN AMP (RV505)



• PIN PHASE (RV504)



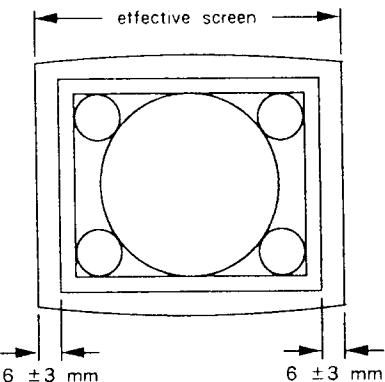
• V. ANG (RV550)



• BOW (RV509)

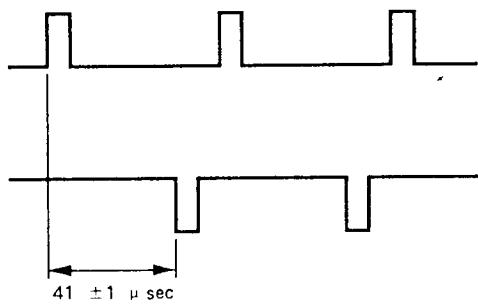


6. Adjust RV503 (H. SIZE) so that the horizontal size becomes 15.75 ± 0.2 frames.
7. Set U/S (Under Scan) switch to Under mode.
8. Adjust RV510 (U.H. SIZE) the Under H. SIZE as follows.



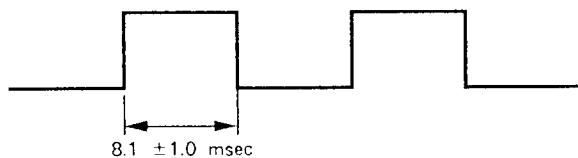
H-V DELAY ADJUSTMENT (VR1, VR2)

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



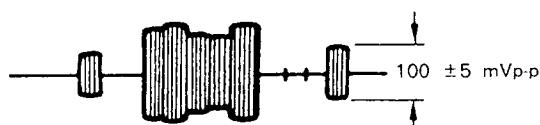
5. V. DELAY Adjustment (VR2)

- (1) Connect an oscilloscope to pin ⑥ of IC503.
- (2) Adjust VR2 of IC503 to become $8.1 \pm 1.0 \text{ msec}$ as follows.



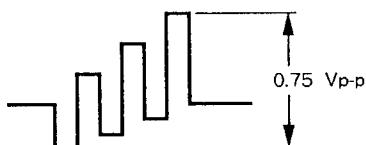
ACC ADJUSTMENT (RV002)

1. Receive a color-bar signal (EIA color-bar).
2. Connect an oscilloscope to the IC302 side lead of C313.
3. Adjust RV002 so that the burst signal level becomes $100 \pm 5 \text{ mVp-p}$.



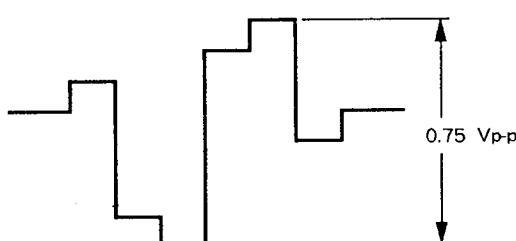
B-Y DEM LEVEL ADJUSTMENT (RV003)

1. Receive a color-bar signal (EIA 75% chroma color-bar).
2. Connect an oscilloscope to TP42 (B-Y).
3. Adjust RV003 so that the B-Y waveform becomes 0.75 Vp-p .



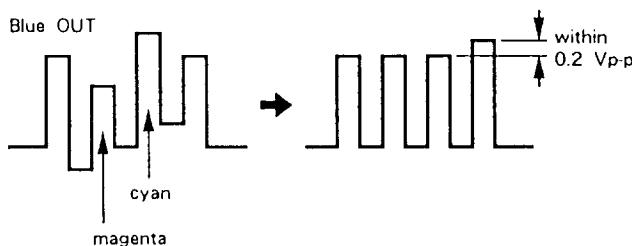
R-Y DEM LEVEL ADJUSTMENT (RV004)

1. Receive a color-bar signal (EIA 75% chroma color-bar).
2. Connect an oscilloscope to TP41 (R-Y).
3. Adjust RV004 so that the R-Y waveform becomes 0.75 Vp-p .

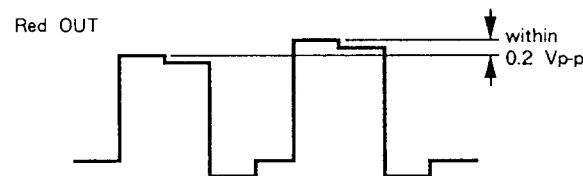


MATRIX ADJUSTMENT (RV006, RV007)

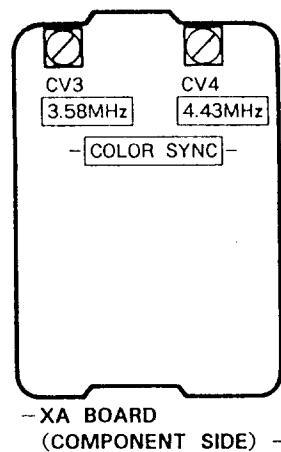
1. Receive a color-bar signal.
 (white peak : 75%
 black level : 0%
 chroma max. : 75%
 chroma min. : 0%)
2. CONTRAST 70%
3. Connect an oscilloscope to pin ⑤ (B OUT) of A-15.
4. Adjust RV006 (B-Y) so that the BLUE OUT waveform becomes flat as following figure.



5. When there is difference between cyan portion and magenta portion, adjust with RV006 while tracking with PHASE volume for user control.
6. Connect an oscilloscope to pin ③ (R-Y) of A-15.
7. Adjust RV007 (R-Y) so that the RED OUT waveform becomes flat as following figure.

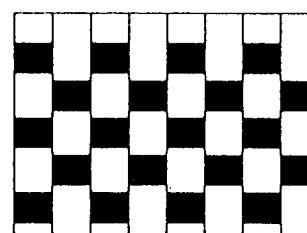


5-2. XA BOARD ADJUSTMENT



COLOR SYNCHRONIZATION (CW) ADJUSTMENT (CV3, CV4)

1. Short-circuit pins ⑨ and ⑩ of IC301 on A board.
2. Connect pin ③ of IC311 on A board to +12 V line via 4.7 kΩ resistor.
3. Short-circuit base and emitter of Q416 on A board.
4. 3.58 MHz Adjustment (CV3)
 (1) Receive a color-bar signal (EIA color-bar).
 (2) Adjust CV3 the color synchronization.



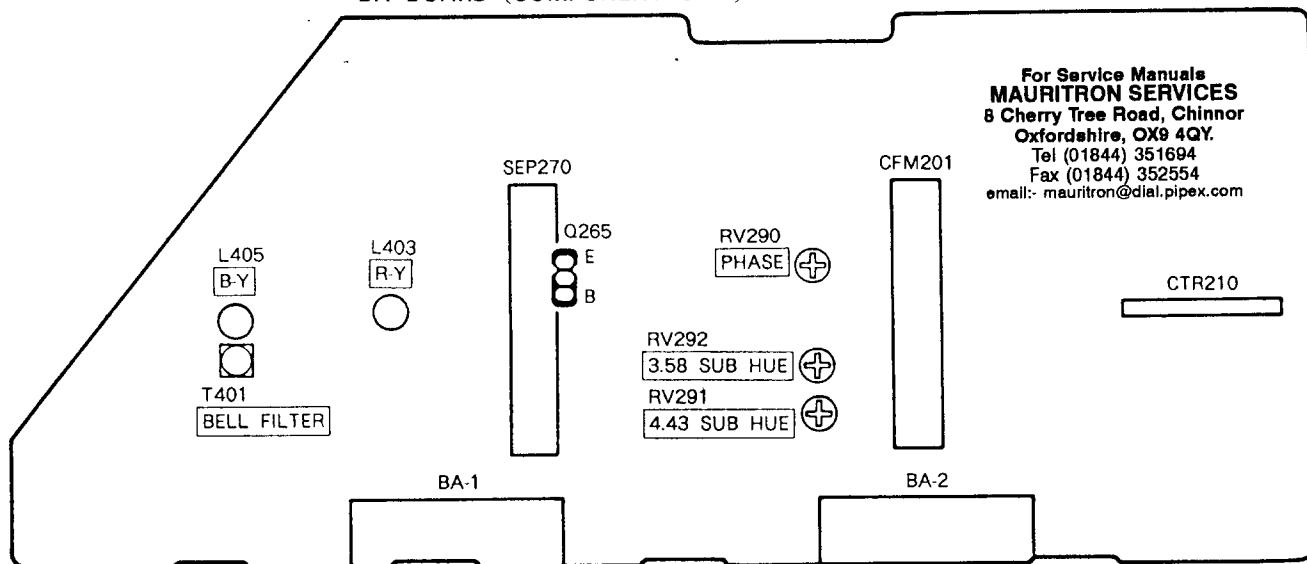
Adjust so that color stripes disappear and the hue change is stabilized extremely.

5. 4.43 MHz Adjustment (CV4)
 (1) Receive a color-bar signal (EBU color-bar).
 (2) Adjust CV4 the color synchronization.
6. 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.

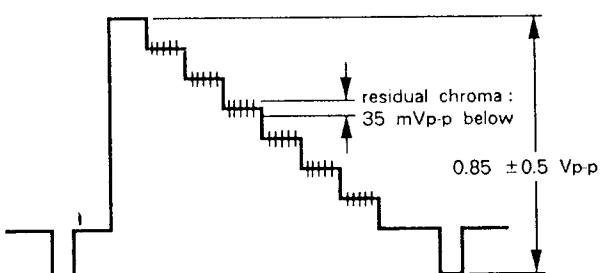
5-3. BA BOARD ADJUSTMENTS

- BA BOARD (COMPONENT SIDE) -

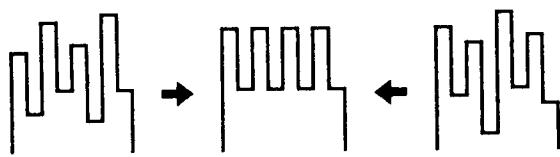


NTSC 3.58 MHz ADJUSTMENT (RV292)

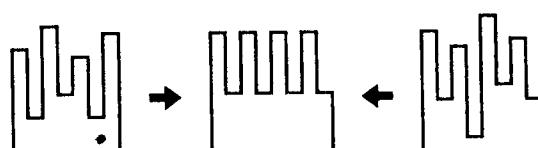
1. Receive NTSC 3.58 color-bar signal.
2. Connect an oscilloscope to pin ⑯ (COMPOSITE IN) of BA-2 connector.
3. Confirm the Y-OUT is 0.87 ± 0.5 Vp-p.
4. Confirm the residual chroma is 35 mVp-p below. When it is above 35 mVp-p, adjust with RV1 and T1 inside CFM201 while tracking.



5. Connect an oscilloscope to pin ⑤ (B-OUT) of A-15 connector.
6. Adjust RV292 (3.58 SUB HUE) so that the BLUE OUT waveform level becomes flat as following figure.

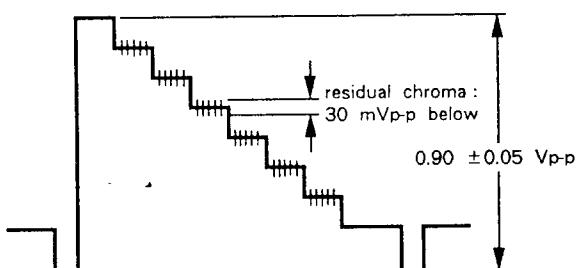


2. Confirm the voltage on pin ④ of CTR210 is above 5.0 V DC, and on pin ⑤ of CTR210 is below 0.1 V DC.
3. Connect an oscilloscope to pin ⑤ of A-15 connector.
4. Adjust RV291 (4.43 SUB HUE) so that the BLUE OUT waveform level becomes flat as following figure.



PAL ADJUSTMENTS (RV290)

1. Receive 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 1.0 V DC.
3. Connect an oscilloscope to pin ⑪ 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.



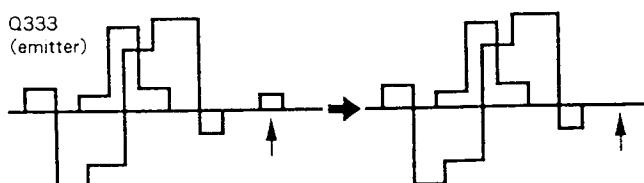
NTSC 4.43 MHz ADJUSTMENT (RV291)

1. Receive NTSC 4.43 color-bar signal.

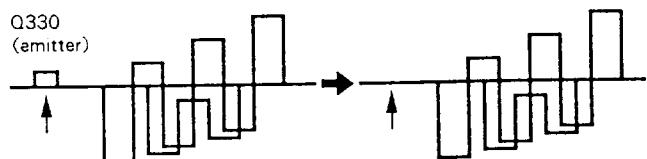
5. ANTI-PAL Adjustment (RV290)

(1) Receive the special PAL color-bar.

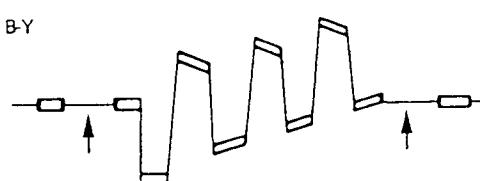
(2) Connect an oscilloscope to emitter of Q333 on A board, and adjust RV290 (PHASE) so that R-Y anti-PAL portion becomes flat as following figure.



(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.

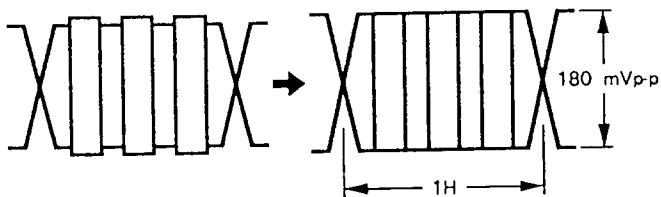


SECAM ADJUSTMENTS (T401, L403, L405)

1. Receive SECAM color-bar.

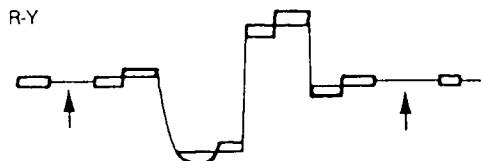
2. Bell Filter Adjustment (T401)

(1) Connect an oscilloscope to emitter of Q265.
(2) Adjust T401 (Bell Filter) so that the chroma waveform becomes smooth.

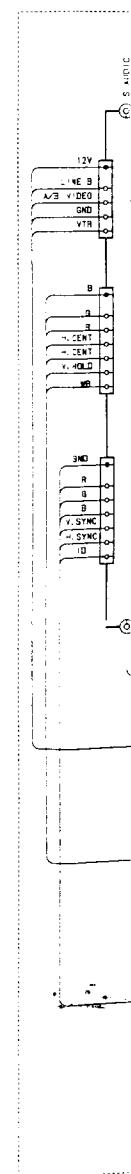


3. Color Balance Adjustment (L403)

(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.

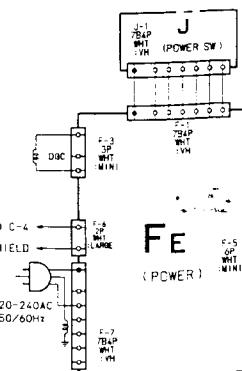
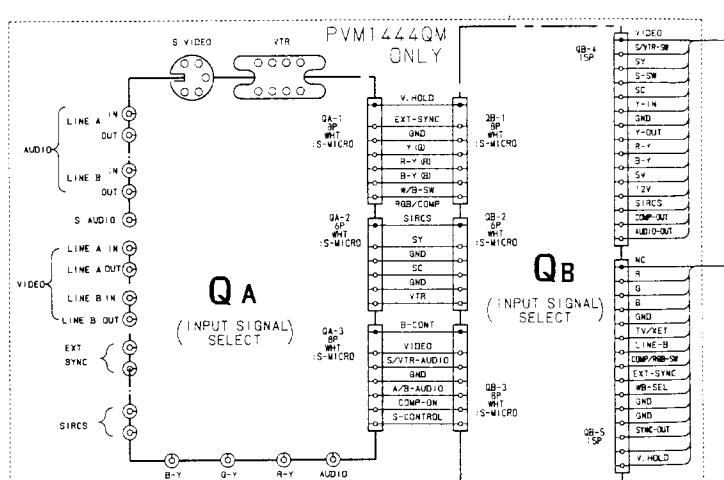
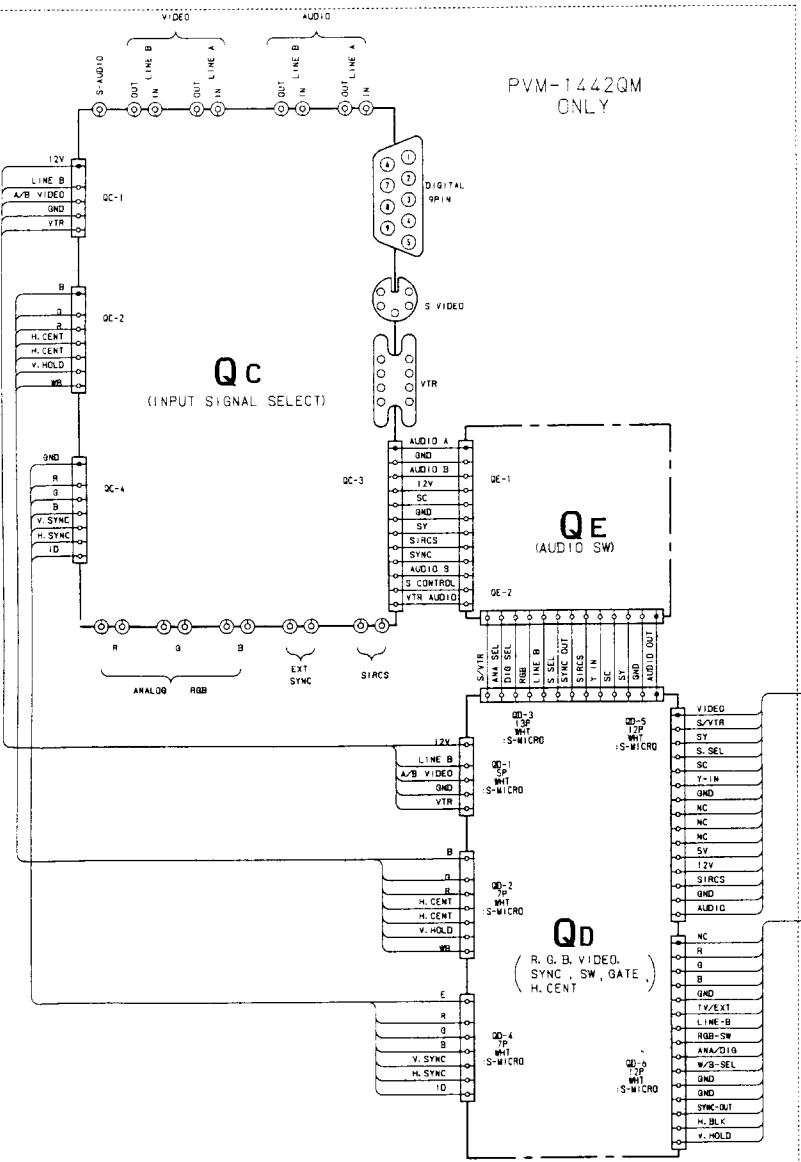
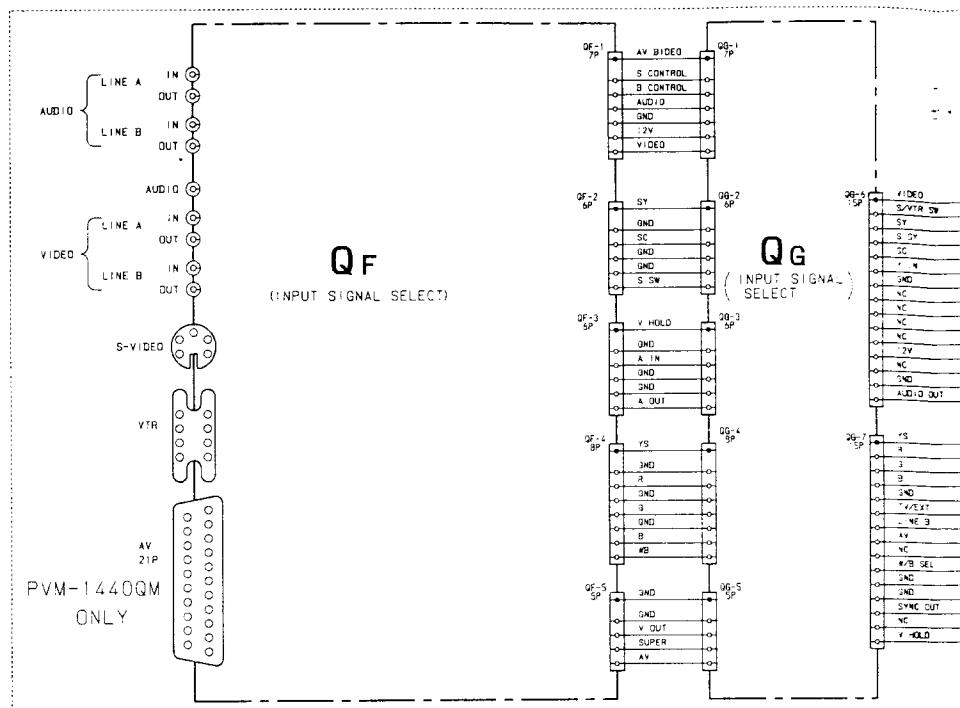


(3) Connect an oscilloscope to pin ⑧ (B-Y) of BA-1 connector.



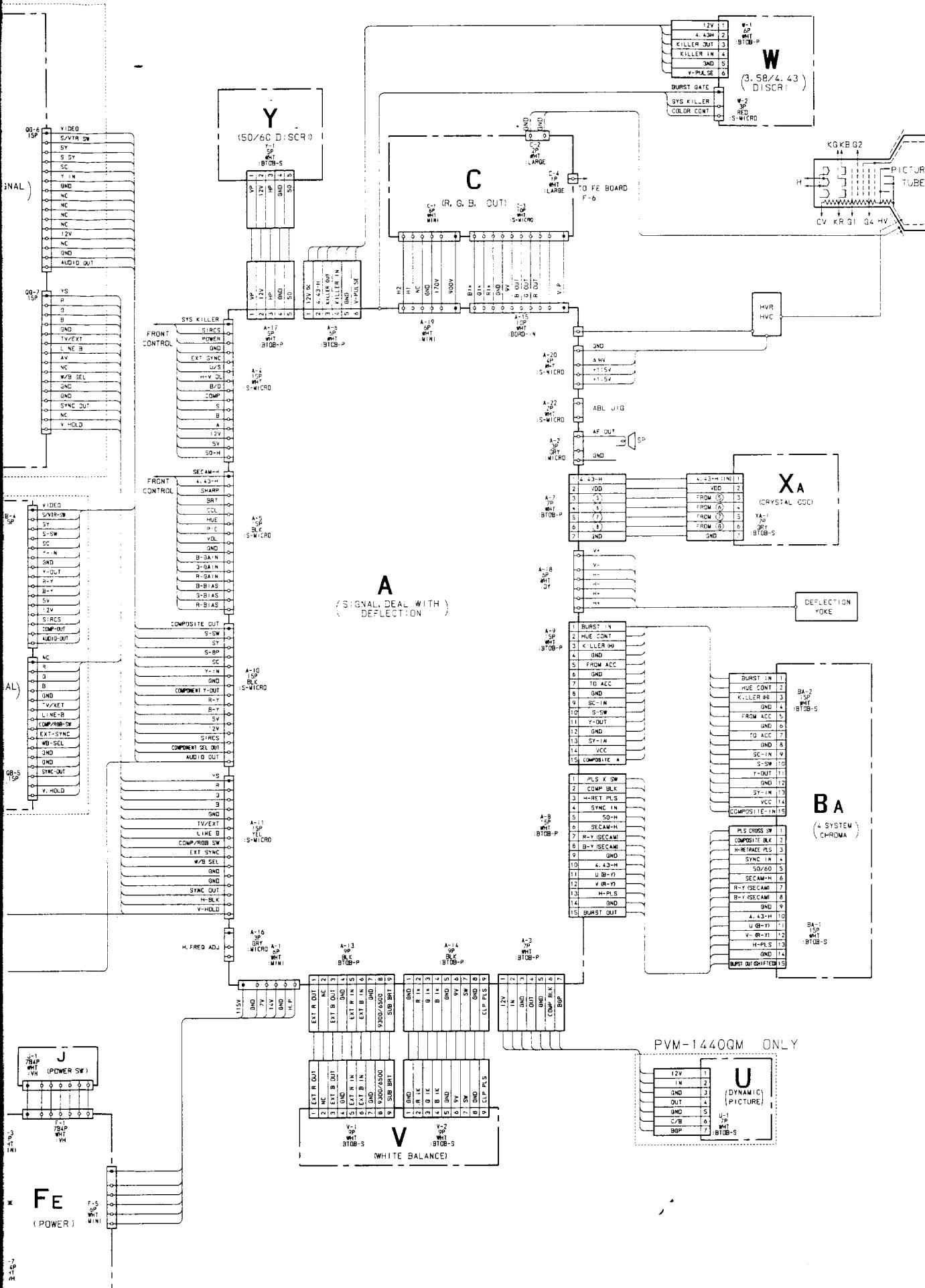
6-1. FRAME SCHEMATIC DIAGRAM

For Service Manuals
MAURITRON SERVICES
 8 Cherry Tree Road, Chinnor
 Oxfordshire, OX9 4QY.
 Tel (01844) 351694
 Fax (01844) 352554
 email:- mauritron@dial.pipex.com

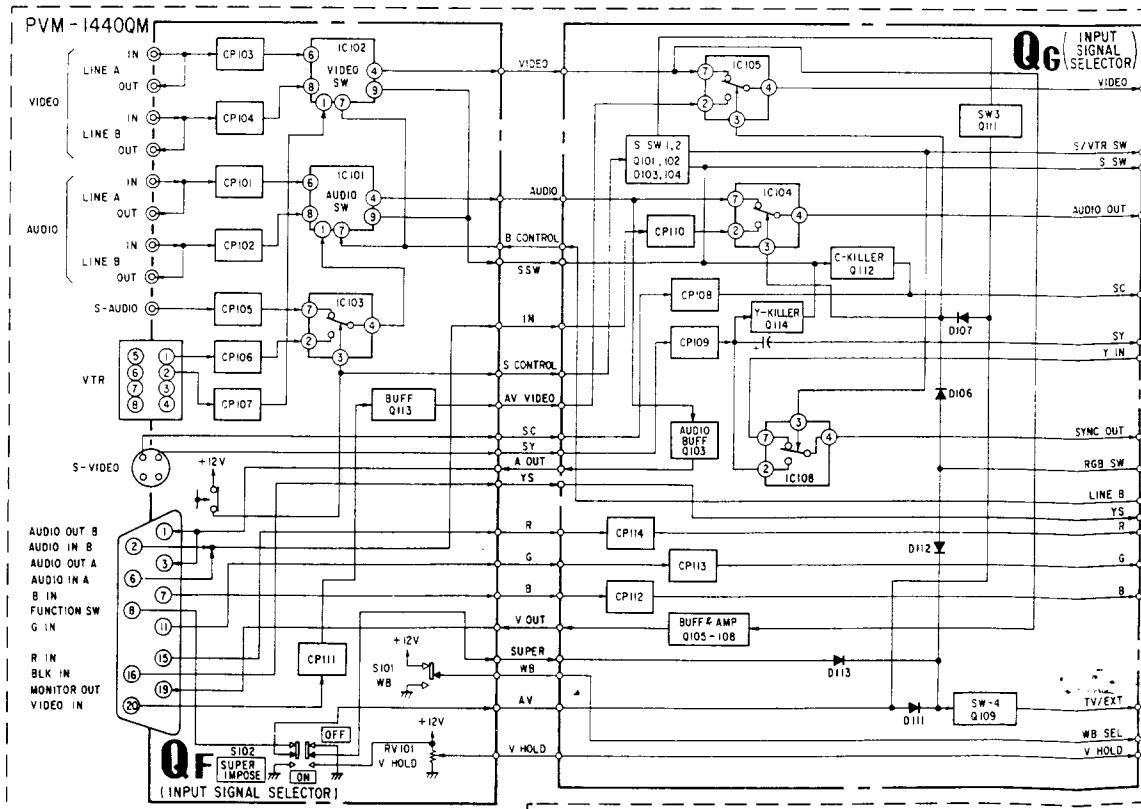
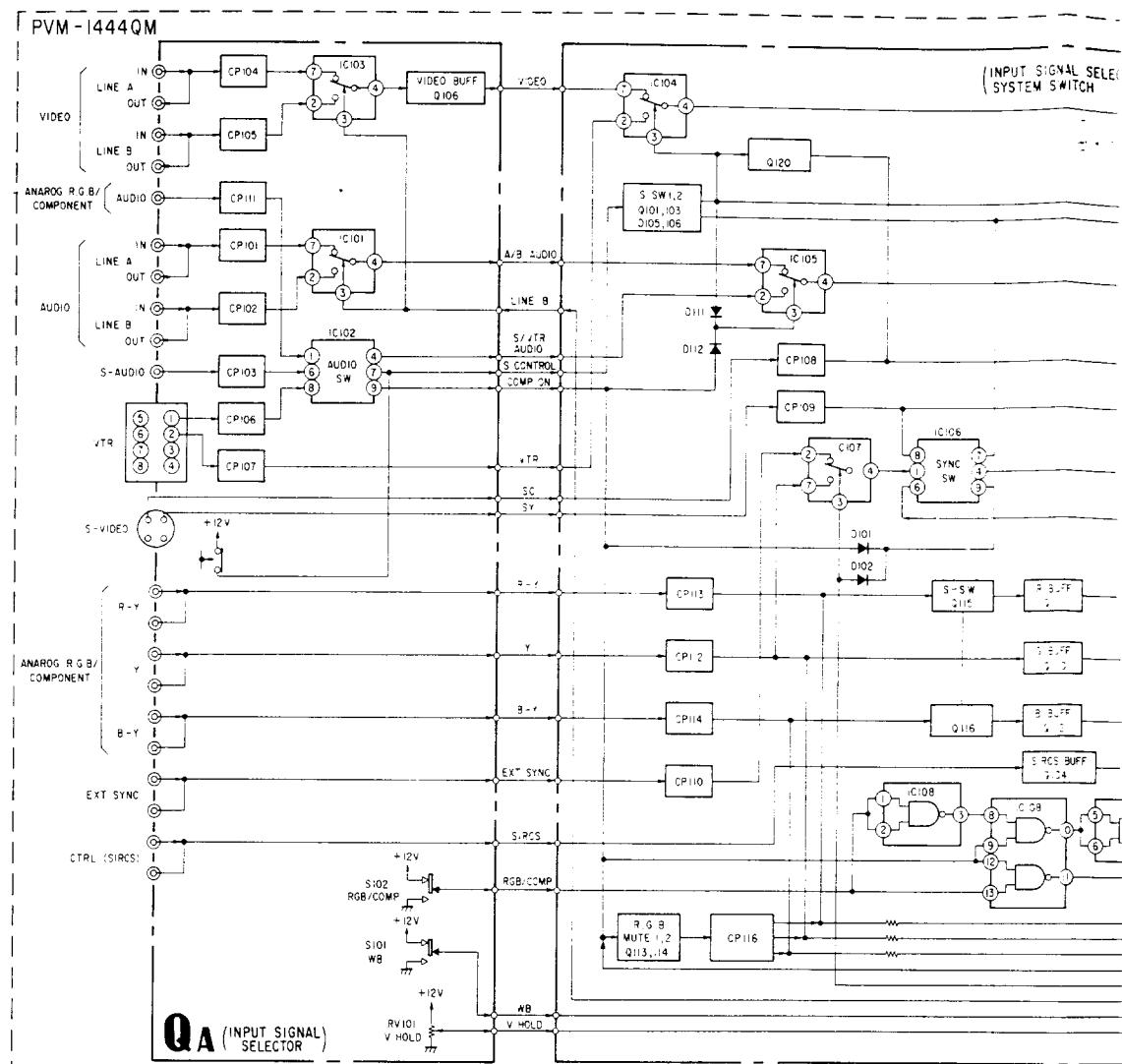


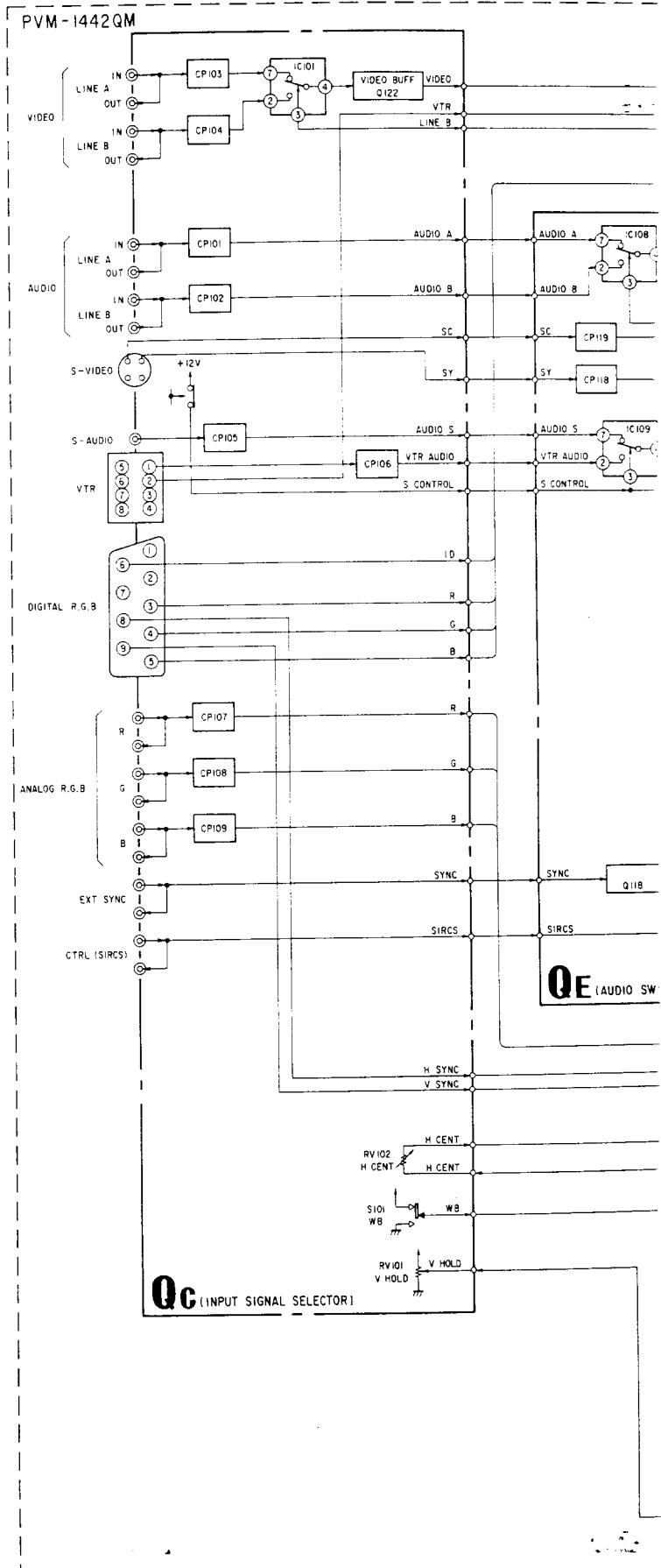
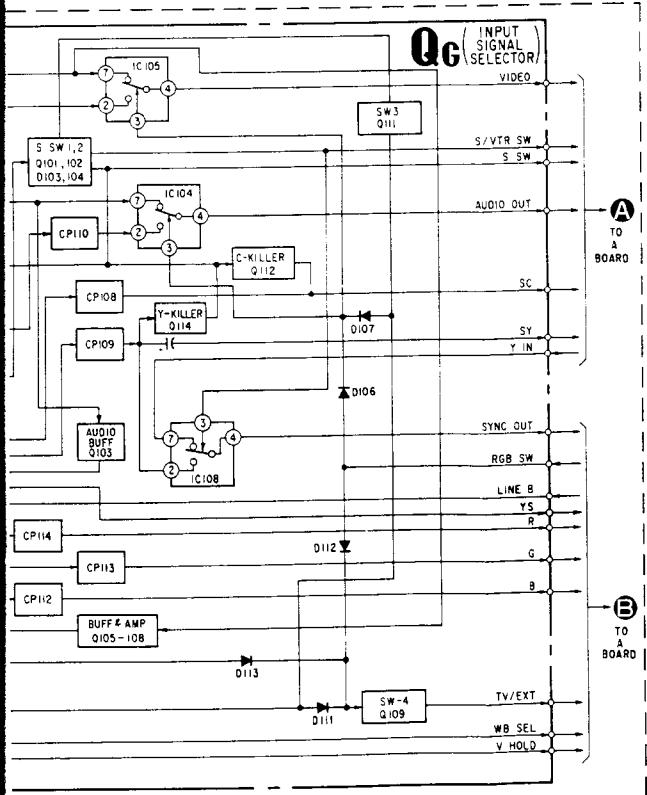
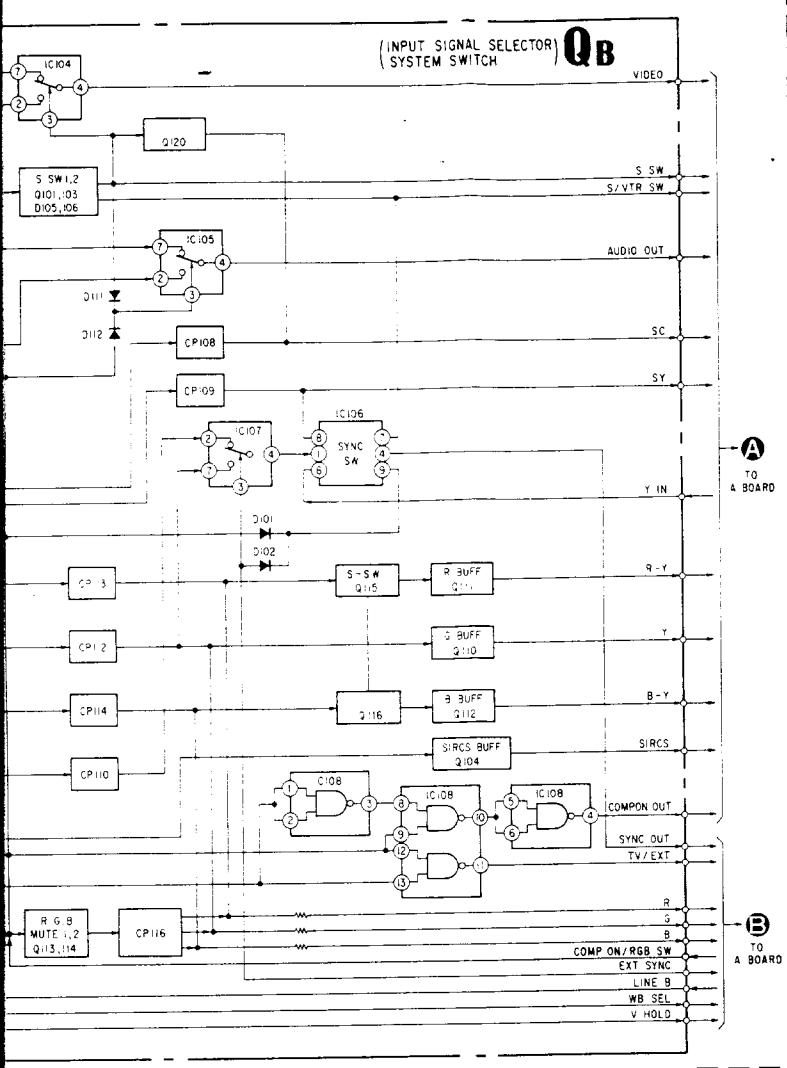
4QM

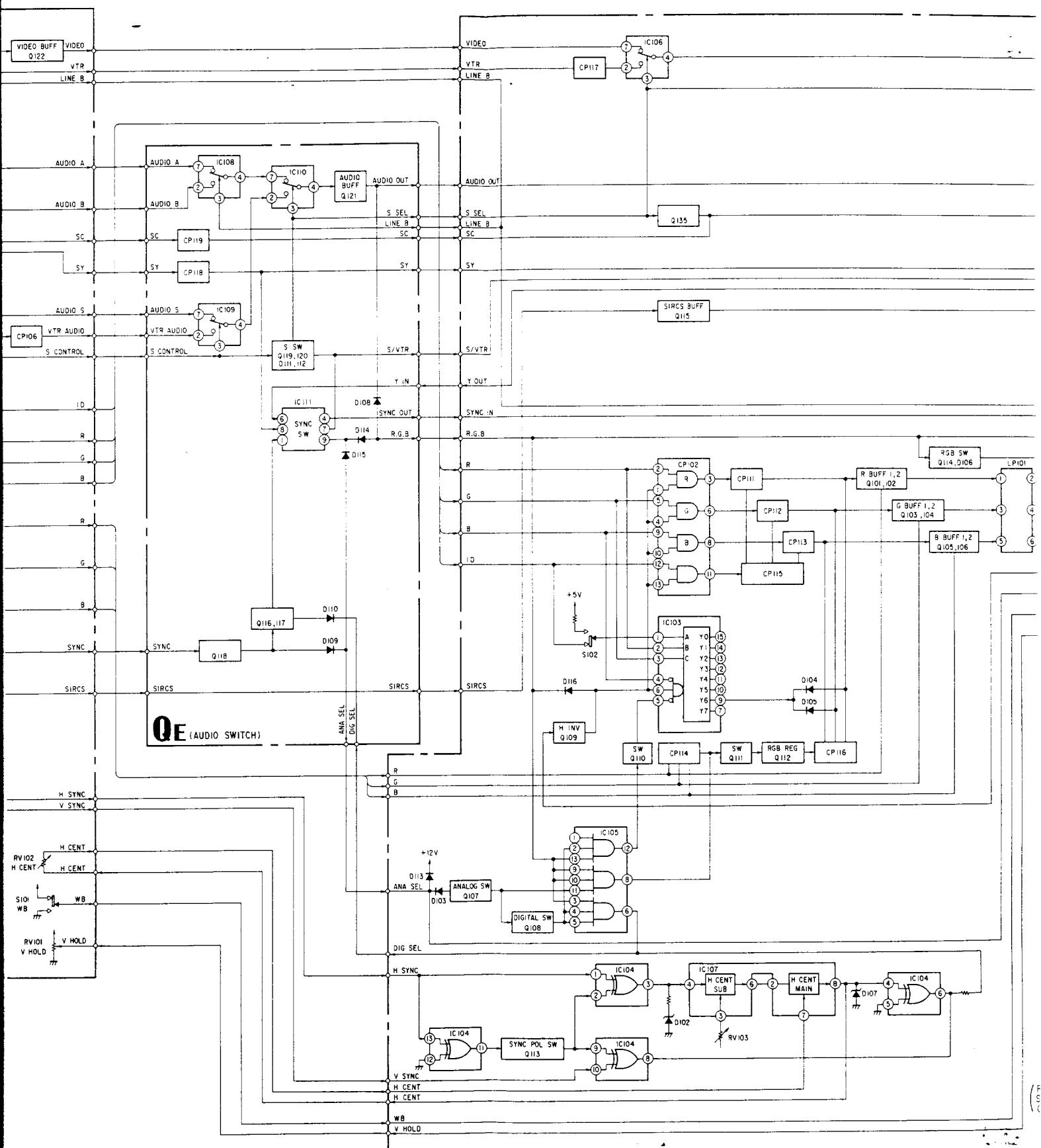
PVM-1440QM/1442QM/1444QM

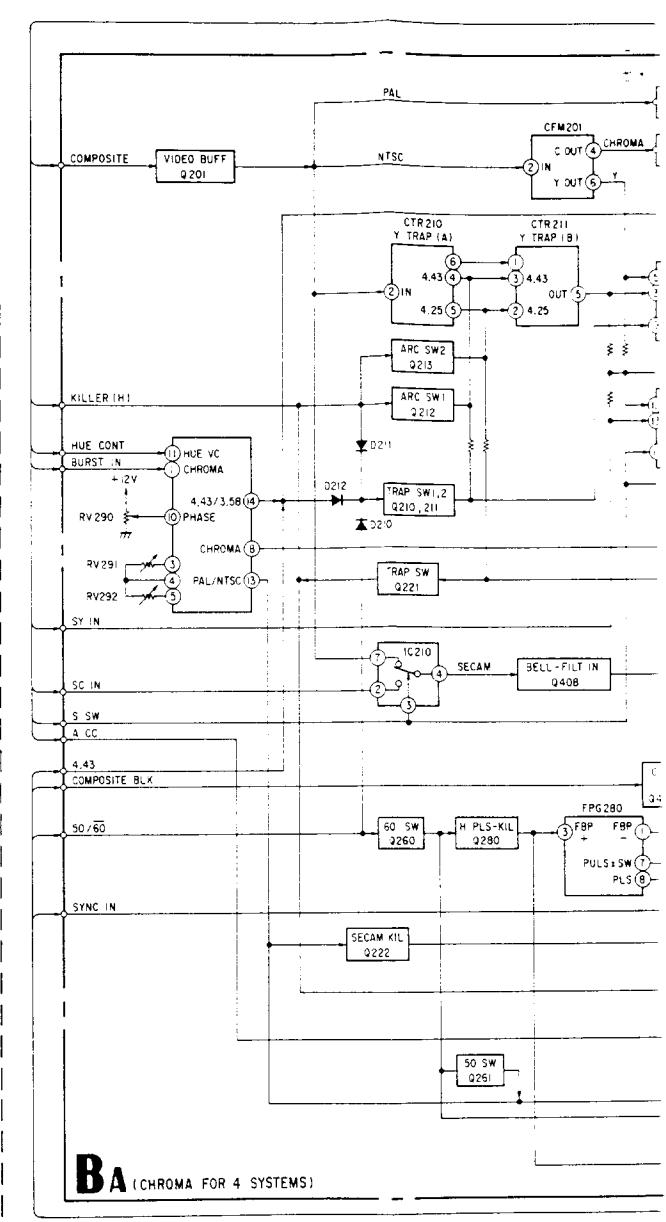
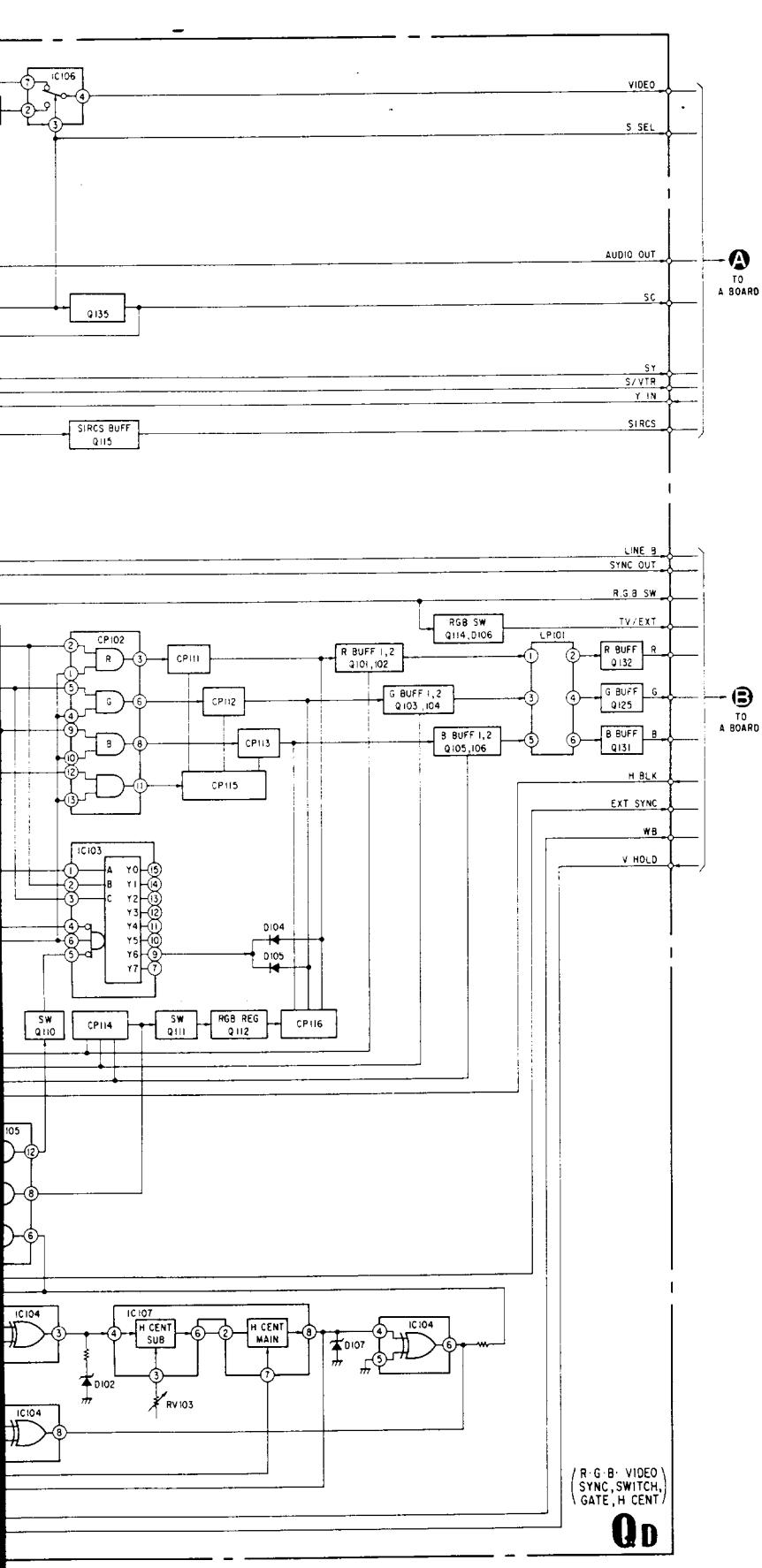


6-2. BLOCK DIAGRAMS

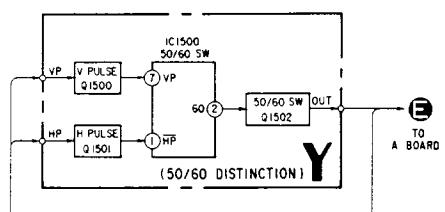
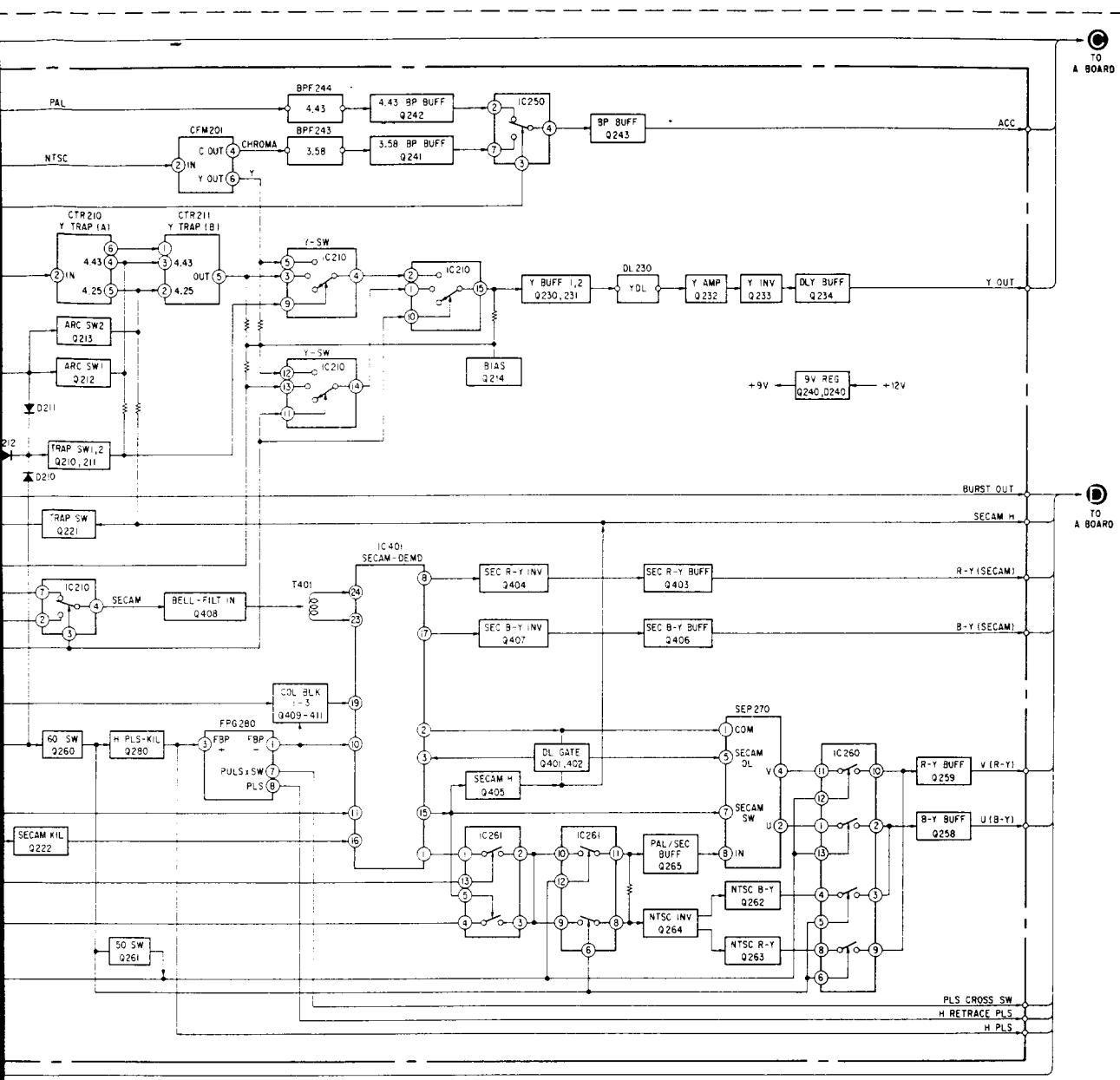




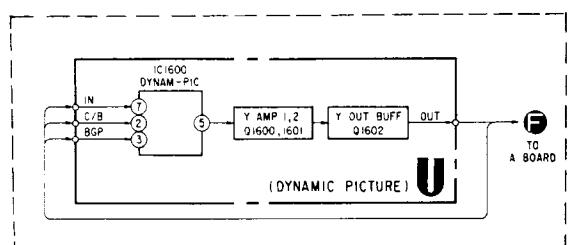


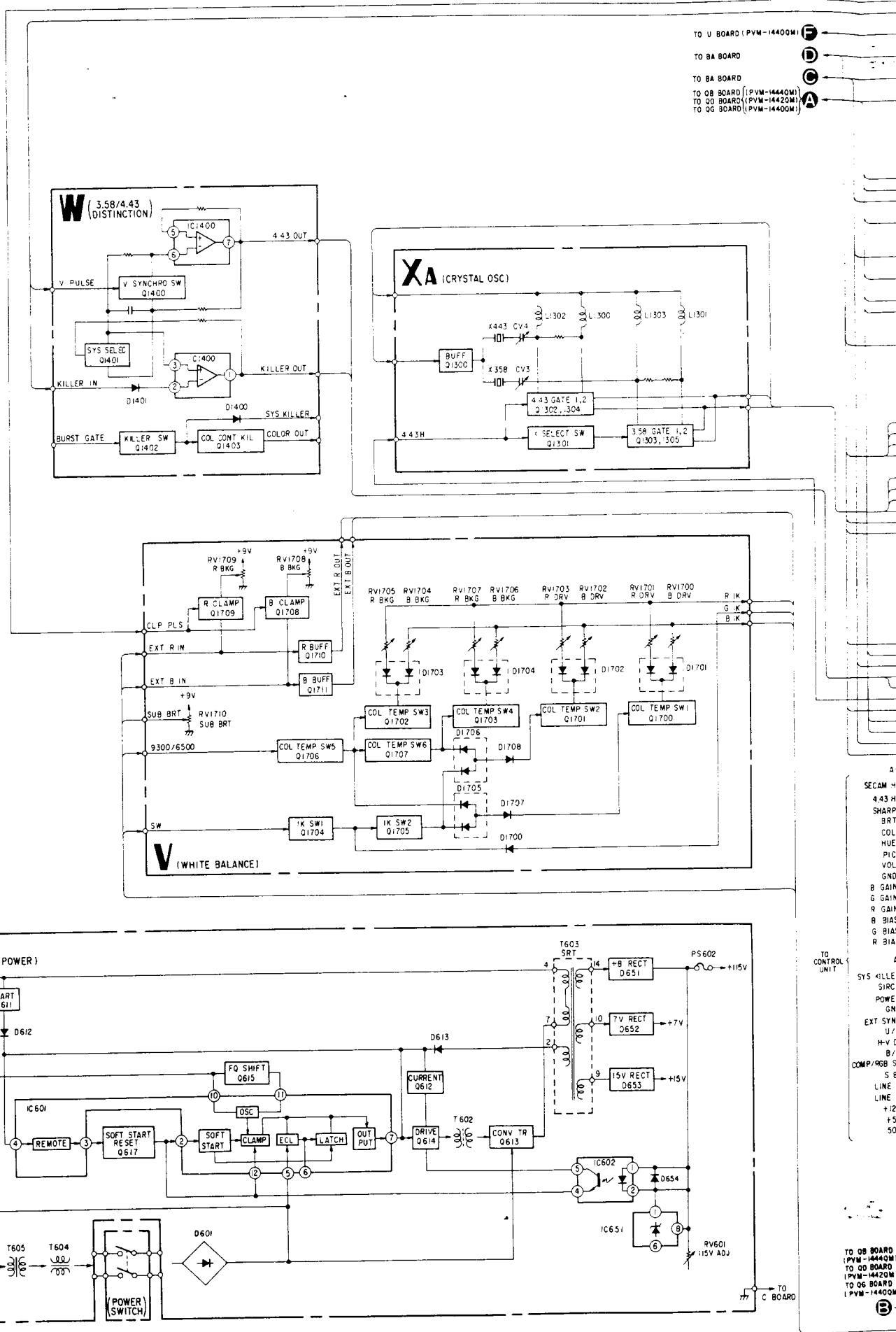


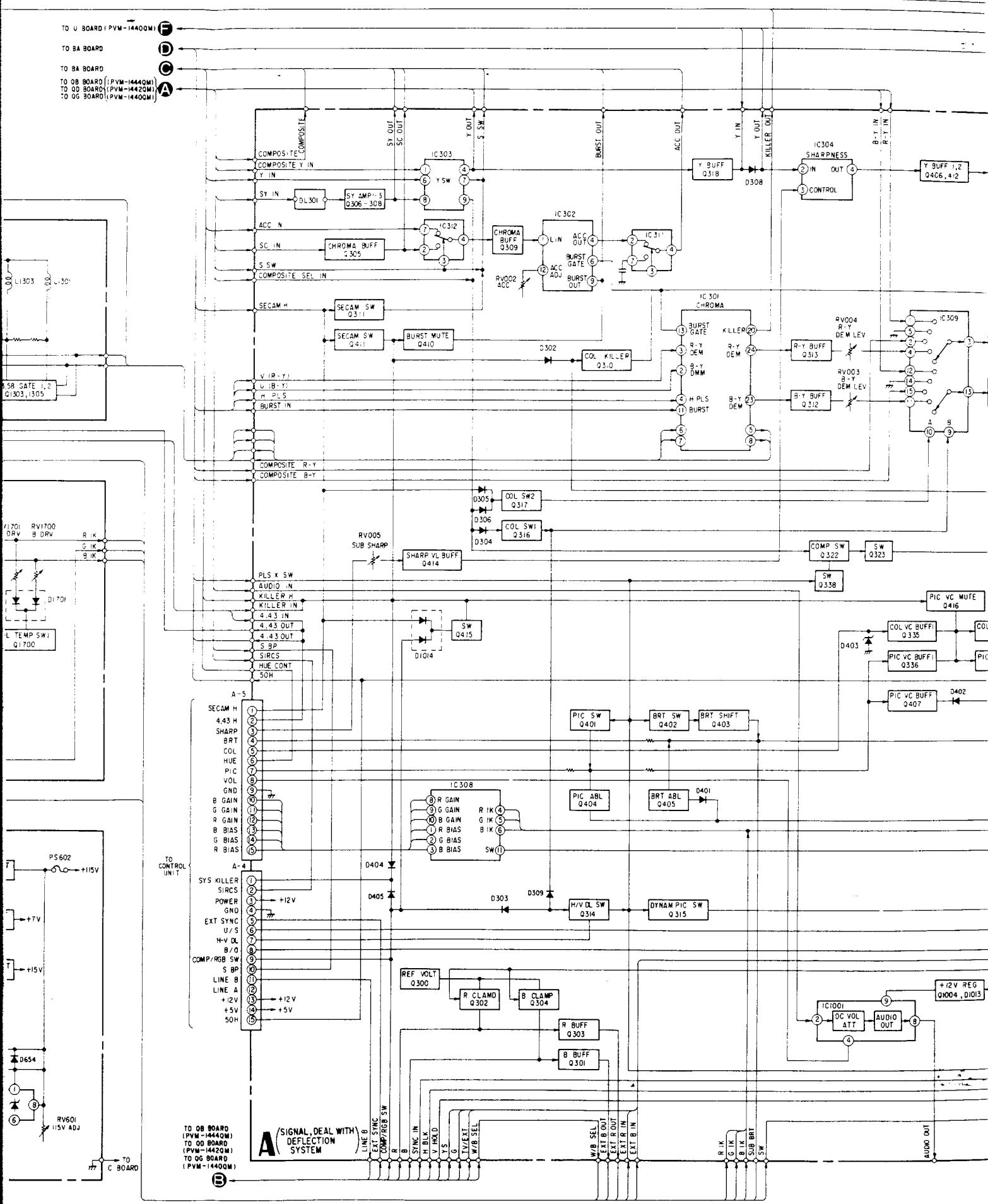
PVM-1440QM/1442QM/1444QM

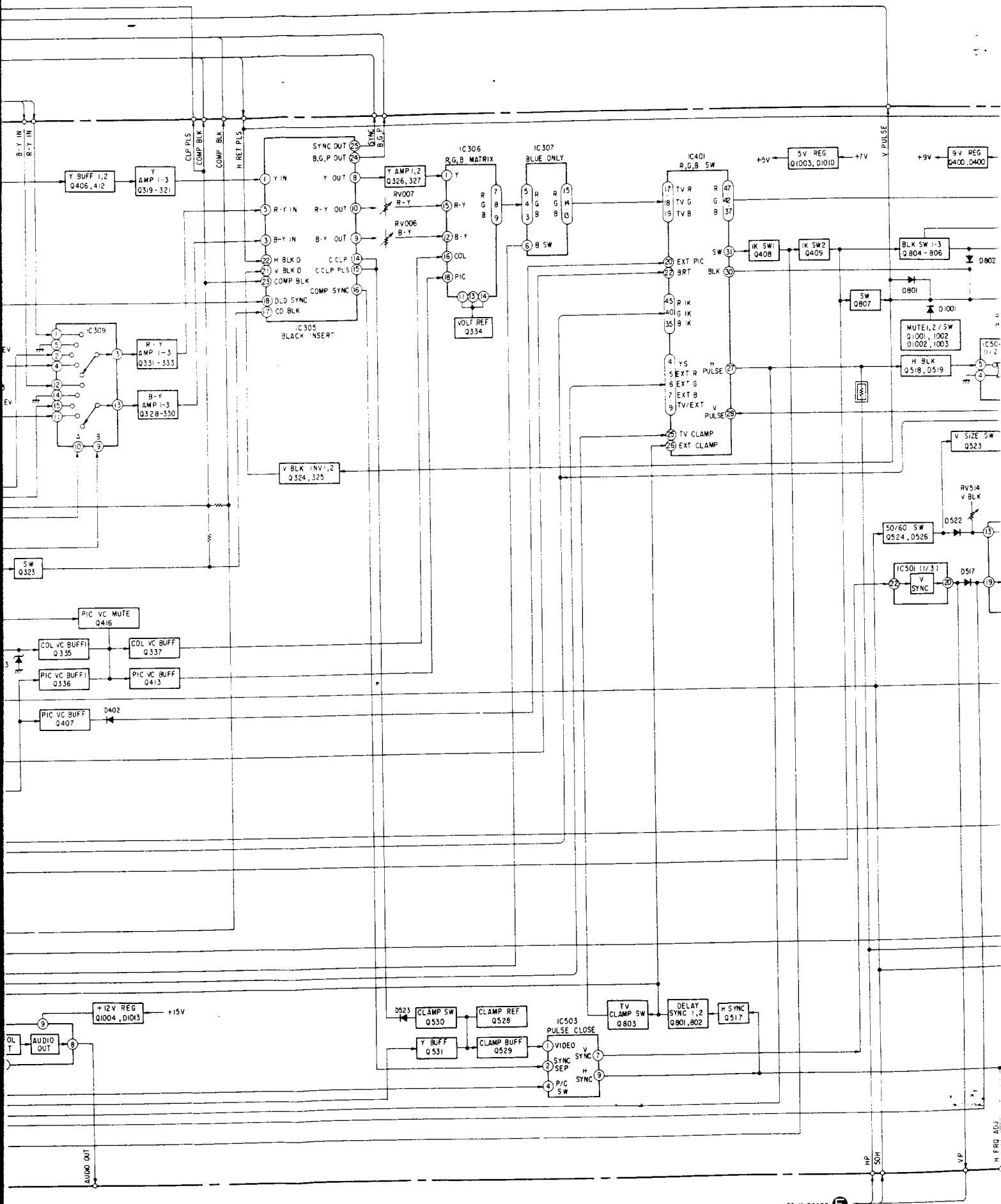


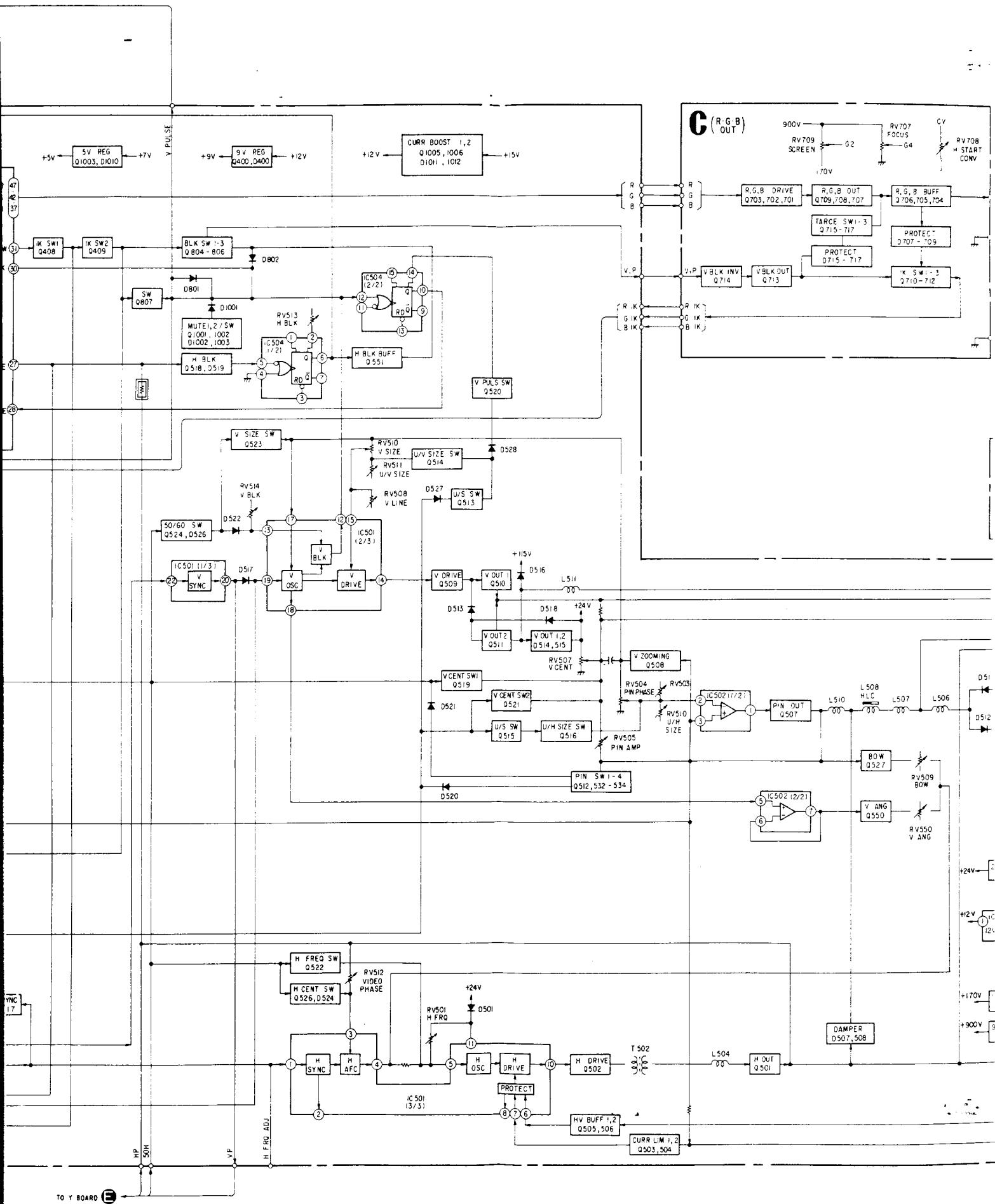
PVM-1440QM

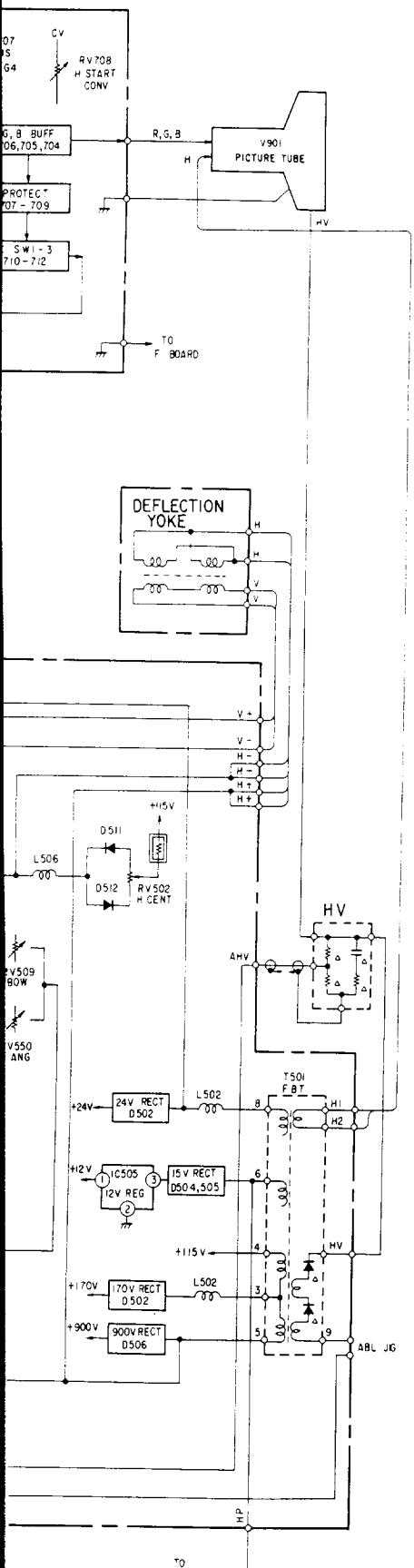






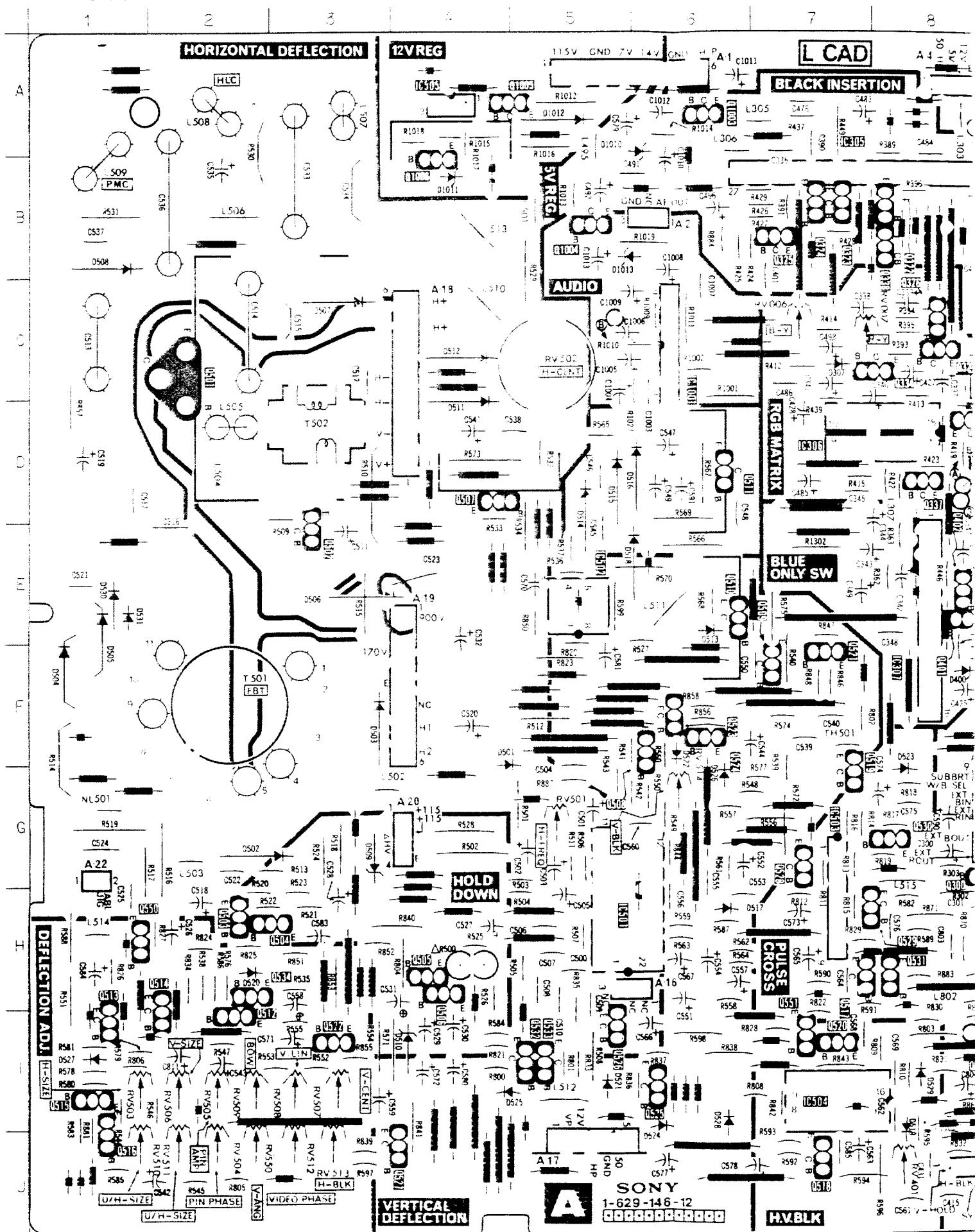






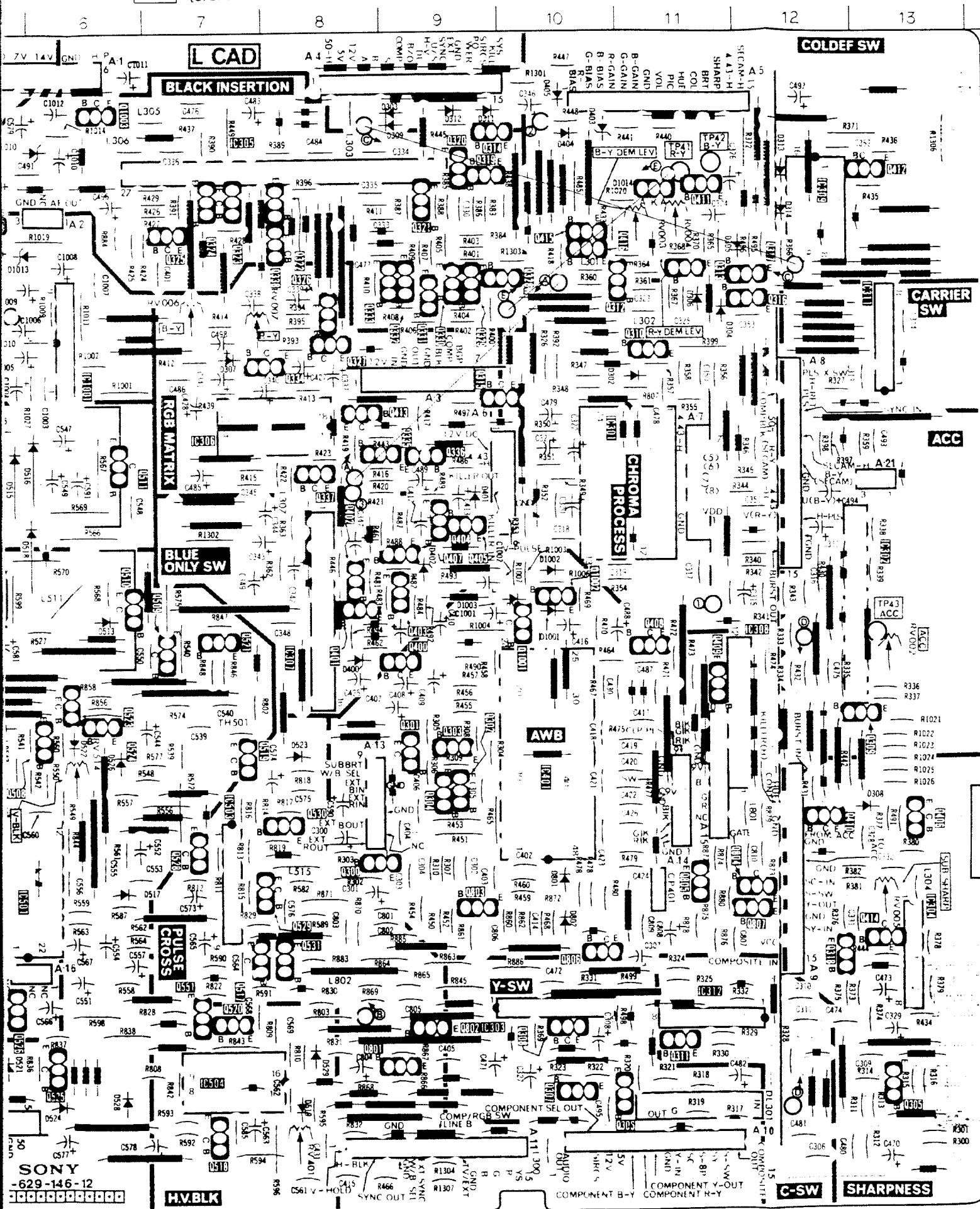
6-3. PRINTED WIRING BOARDS — Conductor Side —
— A Board —

A [SIGNAL PROCESS, DEFL]



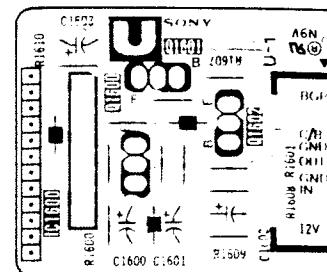
A

(SIGNAL PROCESS, DEFLECTION SYSTEM)

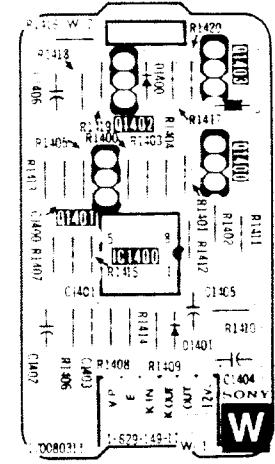


IC		Q330	C-9	Q531	H-8	D516	D-6
IC301	D-11	Q331	C-9	Q532	I-5	D517	H-6
IC302	E-13	Q332	C-9	Q533	I-5	D518	E-6
IC303	I-10	Q333	C-9	Q534	H-2	D519	J-8
IC304	H-13	Q334	C-8	Q550	H-1	D520	H-2
IC305	B-7	Q335	D-9	Q551	I-7	D521	I-5
IC306	D-8	Q336	D-9	Q801	I-9	D522	F-6
IC307	E-8	Q337	D-8	Q802	I-9	D523	G-8
IC308	F-12	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	Q403	E-9	Q807	H-12	D528	I-6
IC401	G-10	Q404	E-9	Q1001	E-10	D530	E-1
IC501	H-5	Q405	E-9	Q1002	E-10	D531	E-1
IC502	E-5	Q406	G-13	Q1003	A-6	D801	H-10
IC503	H-7	Q407	E-9	Q1004	B-5	D802	H-10
IC504	I-7	Q408	F-11	Q1005	A-4	D1001	E-10
IC505	A-4	Q409	F-11	Q1006	B-4	D1002	E-10
IC1001	C-6	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	D302	C-11	D1014	B-11
TRANSISTOR				DIODE			
Q300	G-8	Q416	B-10	D303	A-9		
Q301	G-9	Q501	C-2	D304	C-12		
Q302	G-9	Q502	E-3	D305	B-11		
Q303	G-9	Q503	H-2	D306	C-11		
Q304	G-9	Q504	H-2	D307	C-7		
Q305	I-13	Q505	H-4	D308	G-13	RV002	E-13
Q306	I-11	Q506	H-4	D309	A-9	RV003	B-11
Q307	I-10	Q507	D-4	D311	A-9	RV004	B-11
Q308	I-10	Q508	F-6	D312	A-9	RV005	H-13
Q309	I-13	Q509	F-7	D400	F-8	RV006	C-7
Q310	C-11	Q510	E-6	D401	D-9	RV007	C-7
Q311	I-11	Q511	D-6	D402	E-9	RV501	G-5
Q312	C-11	Q512	I-2	D403	A-10	RV502	C-5
Q313	B-11	Q513	I-1	D404	A-10	RV503	I-1
Q314	A-9	Q514	I-2	D405	A-10	RV504	J-2
Q315	D-9	Q515	I-1	D501	G-4	RV505	I-2
Q316	C-12	Q516	J-1	D502	G-2	RV506	I-2
Q317	C-12	Q517	H-7	D503	F-3	RV507	I-3
Q318	H-12	Q518	J-7	D504	F-1	RV508	I-3
Q319	B-9	Q519	G-7	D505	E-1	RV509	I-2
Q320	B-9	Q520	I-7	D506	E-3	RV510	J-1
Q321	B-9	Q521	F-7	D507	C-3	RV511	J-2
Q322	B-8	Q522	I-3	D508	B-1	RV512	J-3
Q323	B-7	Q523	F-6	D509	G-3	RV513	J-3
Q324	B-7	Q524	F-6	D510	I-4	RV514	G-6
Q325	B-7	Q525	I-6	D511	D-4	RV550	J-2
Q326	C-8	Q526	I-5	D512	C-4		
Q327	C-8	Q528	G-7	D513	E-6		
Q328	C-9	Q529	H-8	D514	D-5		
Q329	C-9	Q530	G-8	D515	D-4		

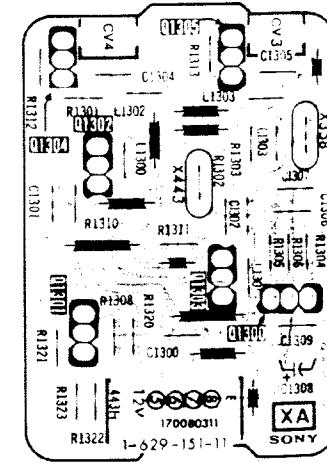
— U Board — (PVM-1440QN)



— W Board —



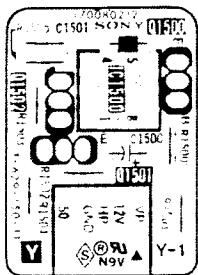
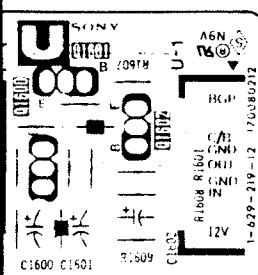
— XA Board —



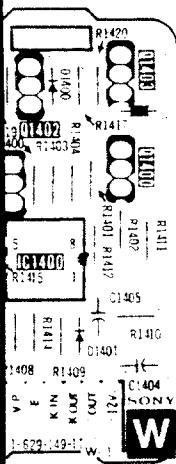
UDYNAMIC
PICTURE**W**3.58/4.43
DISTINCTION**XA**CRYSTAL
OSC**Y**50/60
DISTINCTION

Board — (PVM-1440QM)

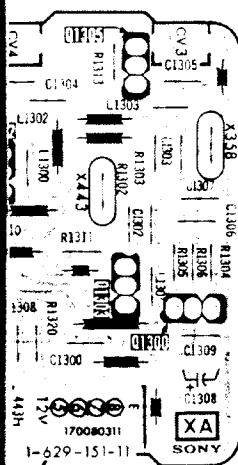
— Y Board —



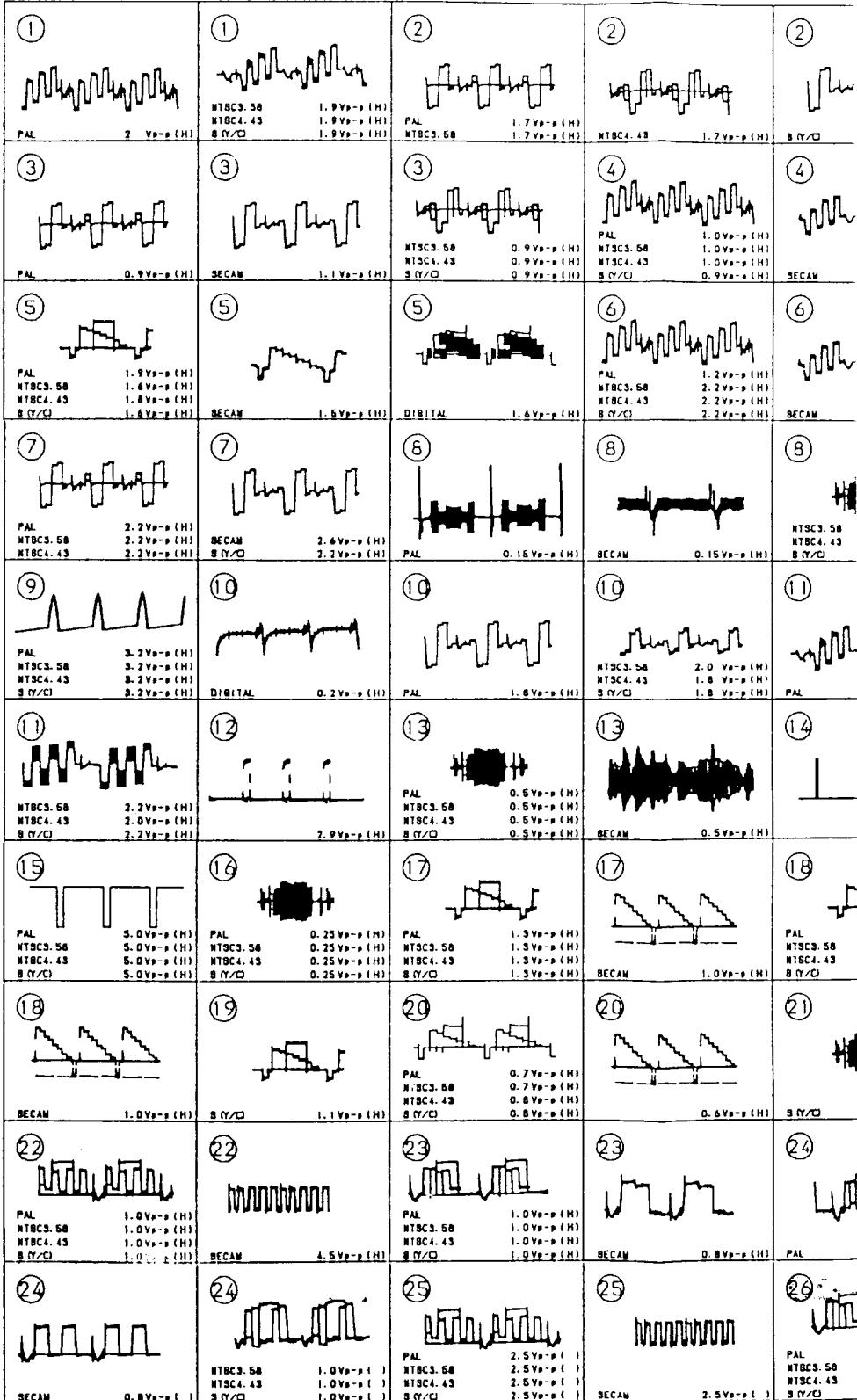
Board —



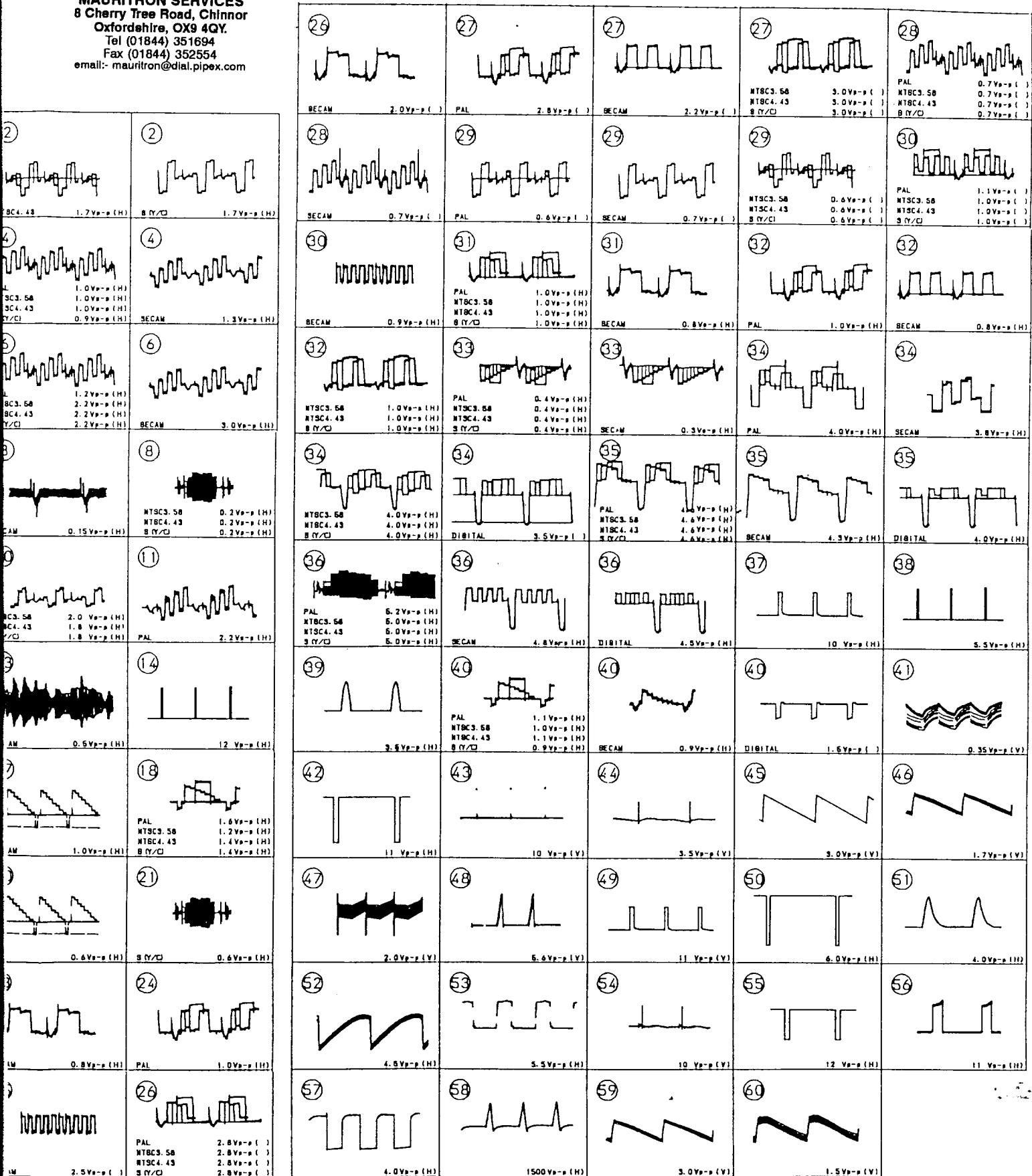
Board —



A BOARD WAVEFORM



For Service Manuals
MAURITRON SERVICES
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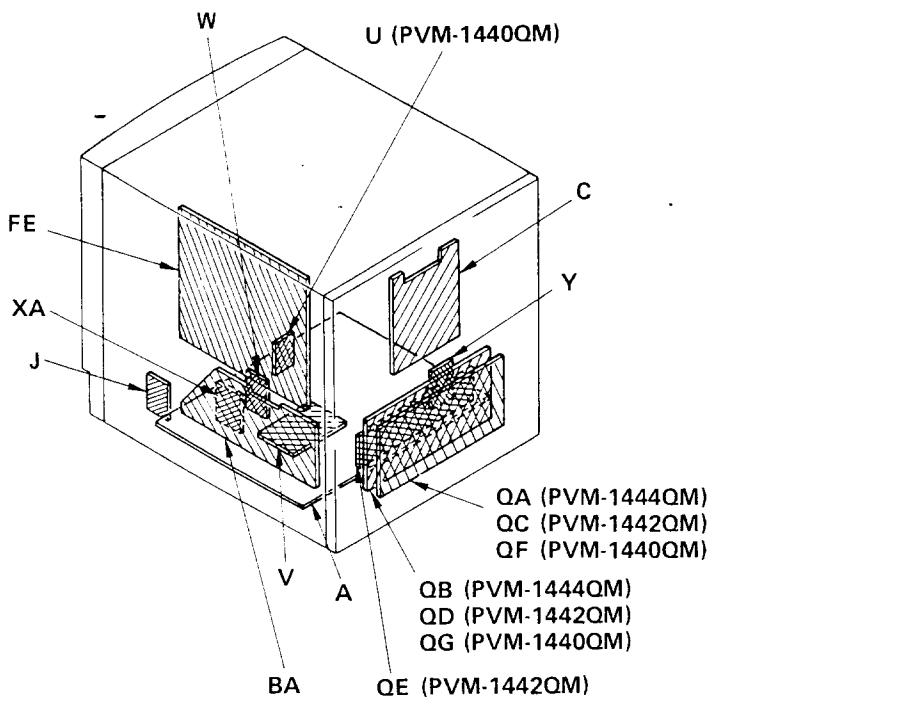
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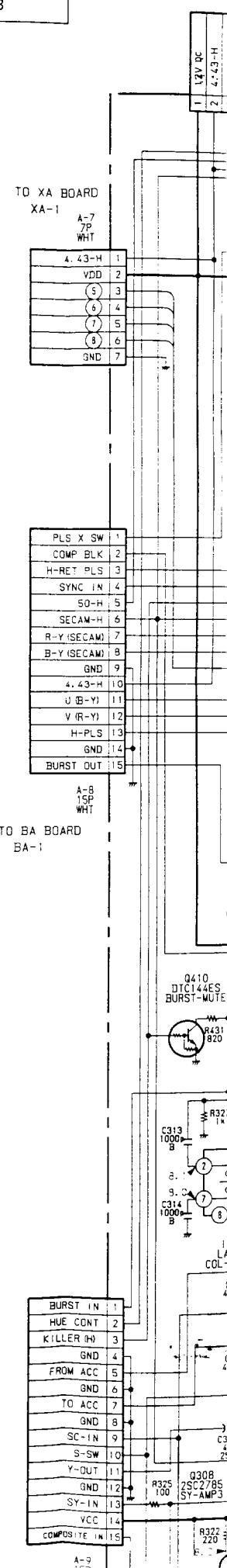
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8

9



The inner schematic diagrams
(IC302, 304, 305, 307, 308,
503): See page 66-68



A BOARD

IC-No.	PIN-NO.	PAL	SECAM	NTSC	S-VIDEO	DIGITAL
IC301	8, 5	3.5	3.4	3.5	3.6	3.7
IC301	9, 4	2.2	2.1	2.1	2.4	2.2
IC302	1, 3	1.4	1.4	1.4	1.4	1.3
IC303	1, 3	0	0	0	3.8	3.4
IC304	1, 2	2.8	2.8	2.8	2.4	2.4
IC304	7, 6	10.2	7.0	7.2	7.0	7.0
IC305	1, 6	5.4	5.4	5.4	5.4	5.4
IC305	6, 6	10.2	6.2	6.2	6.9	6.9
IC305	6, 3	9.6	6.4	5.4	5.4	6.4
IC305	1, 10	6.8	10.0	5.8	5.9	5.9
IC306	1, 7	9.5	3.4	5.1	6.1	6.1
IC306	6, 4	6.3	5.3	5.9	5.0	5.1
IC306	1, 1	1.7	3.0	1.8	1.5	1.5
IC309	2, 1	8.9	8.1	8.1	8.1	8.1
IC309	12, 3	6.1	12.3	12.3	12.3	12.3
IC312	2, 1	10.3	3.7	3.7	9.1	9.1
IC311	4, 3	3	4.2	4.3	4.3	3
IC311	7, 3	7.3	7.3	7.3	7.3	7.3
C312	2, 0	3	3	3	4.9	3.5
C312	2, 3	0.3	0.3	0.3	0.9	1.1
C312	2, 7	4.4	4.3	4.4	4.4	4.4
C312	2, 4	5.8	5.3	5.3	5.3	5
C312	5, 3	5.2	5.2	5.2	5.0	5.1
IC401	22	5.0	5.2	5.5	3.5	2.5
IC401	23	4.3	1.5	1.2	0.8	0.6
IC401	35	0.7	0.2	0.3	0	0
IC401	36	0.4	0.8	1.1	0.7	0.7
IC401	37	0.8	0.2	0.3	0	0
IC401	41	0.3	1.2	0.7	0.6	0.6
IC401	42	2.5	3.1	3.2	3.0	3.0
IC503	1	2.3	1.0	1.0	1.0	1.0

Q NO.	PAL	SECAM	NTSC	S-VIDEO	DIGITAL
Q310	1, 3	0	4.3	4.3	
Q310	2, 2	0	0.2	0.2	
Q316	B	0	0.2	0.3	0
Q316	C				0
Q316	E				
Q317	B	0	11.7	0.3	0
Q317	C	11.3	0.1	12.3	12.3
Q317	E				12.3
Q322	C	0	0.2	0.3	0
Q322	E				0
Q323	B	0	0.2	0.3	0
Q323	C				0
Q323	E				
Q328	B	9.1	10.8	4.1	2.1
Q328	C	1.5	1.2	1.5	2.5
Q328	E	9.8	10.5	9.2	2.8
Q329	B	2.5	1.1	2.5	2.5
Q329	C	3.8	10.4	1.5	1.5
Q329	E	1.2	0.5	1.3	1.3
Q329	H	2.5	10.4	1.5	1.5
Q330	B	1.5	1.2	1.5	1.5
Q331	B	2.1	1.1	2.1	2.1
Q331	C	2.3	1.1	2.3	2.3
Q331	E	2.3	1.1	2.3	2.3
Q332	B	1.5	1.2	1.5	1.5
Q333	B	1.5	1.2	1.5	1.5

Note:

All capacitors are in μF unless otherwise noted.
 μF : 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 1/4W

All resistors are in ohms.

: nonflammable resistor.

: fusible resistor.

: internal component.

: panel designation and adjustment for repair.

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

When replacing the part in below table be sure to perform the related adjustment.

Part replaced	Adjustment (※)
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, 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 PAL color-bar signal input.

Voltage variations may be noted due to normal production tolerance.

: B+ bus.

: B- bus.

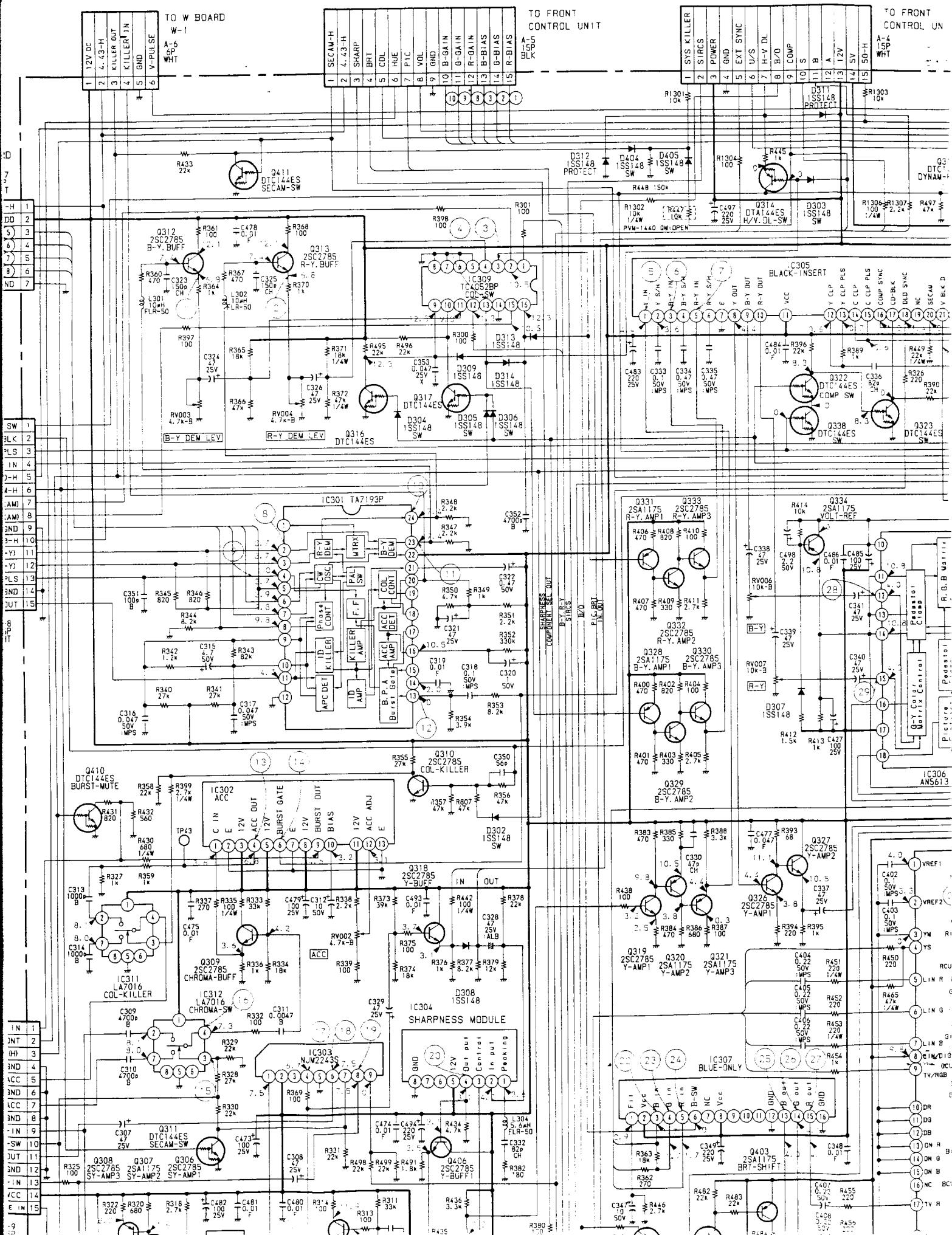
: signal path.

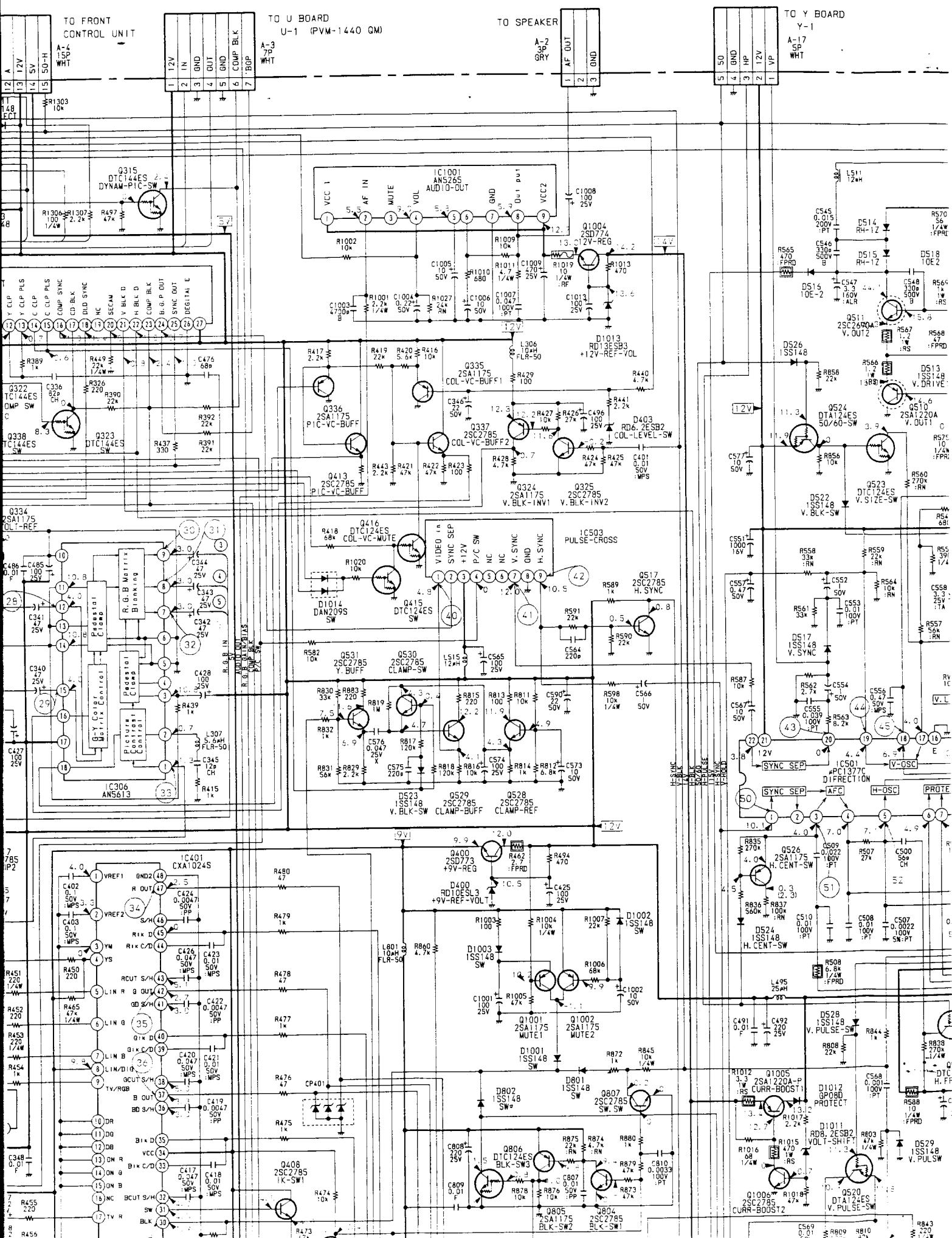
No mark : with PAL color-bar signal received or common voltage.

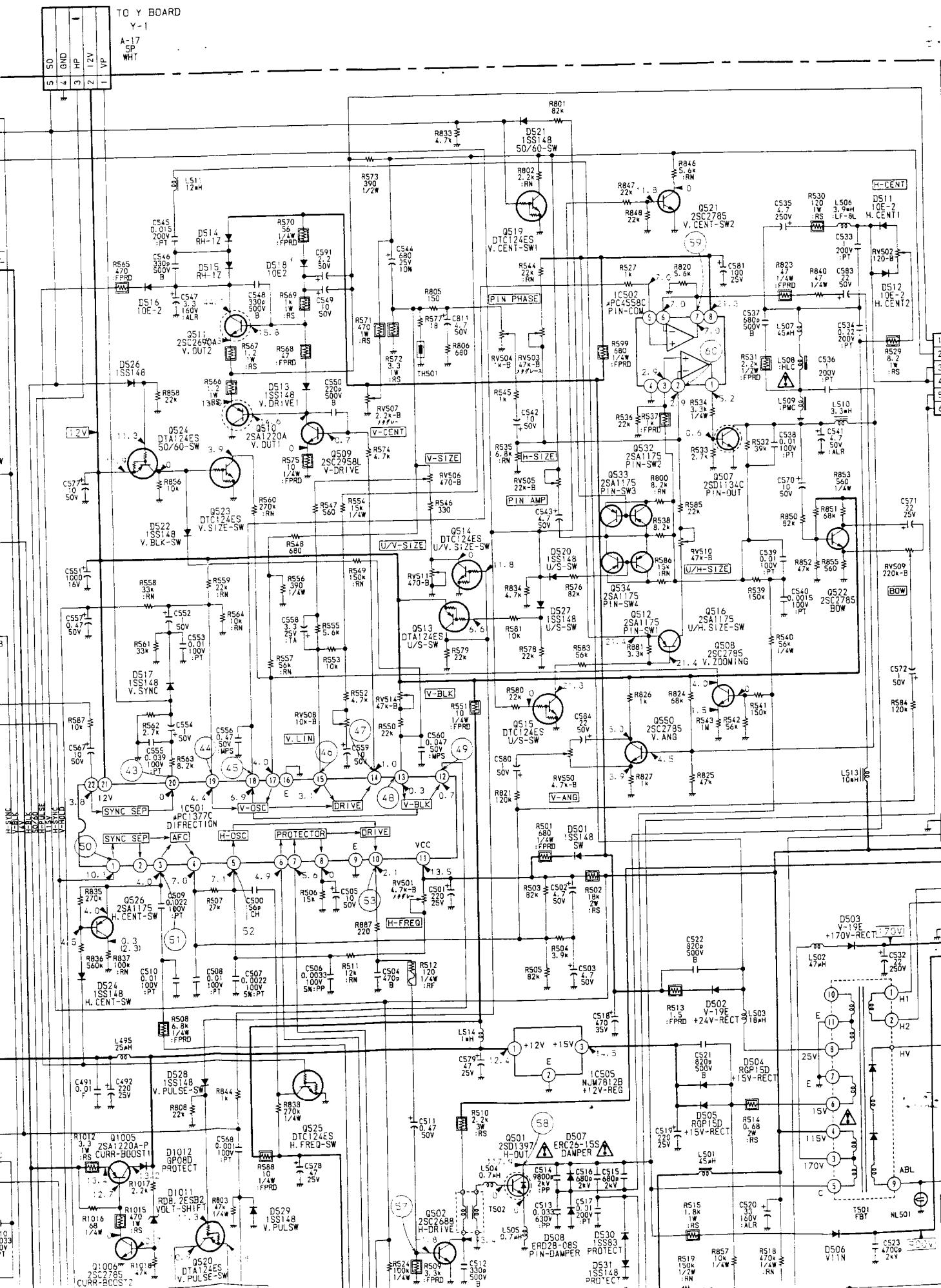
: with SECAM color-bar signal received.

: with NTSC 3.58 color-bar signal received.

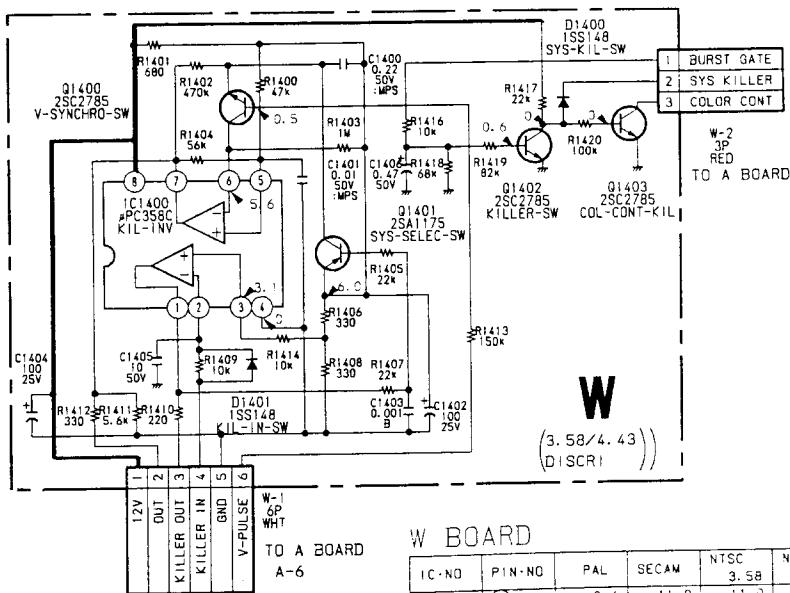
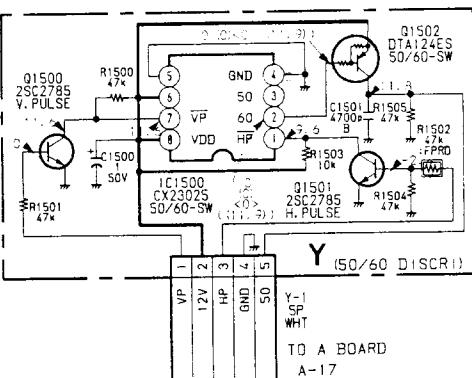
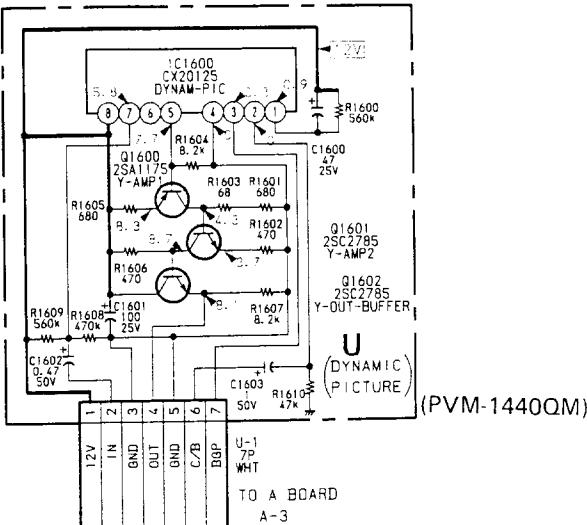
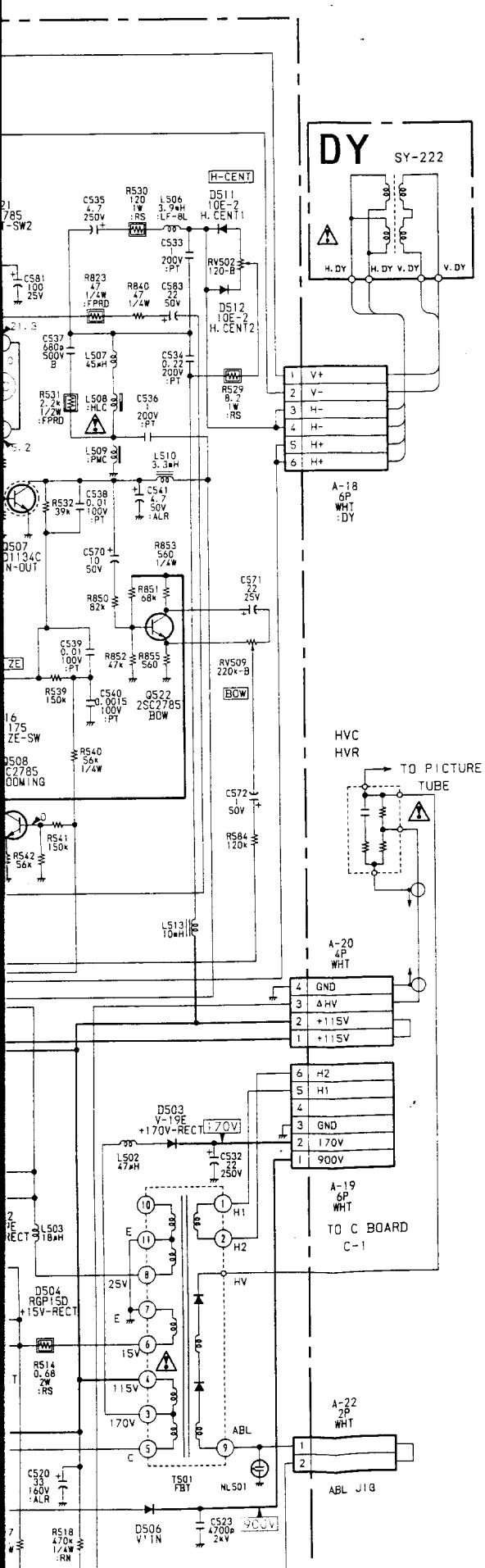
: with NTSC 4.43 color-bar signal received.





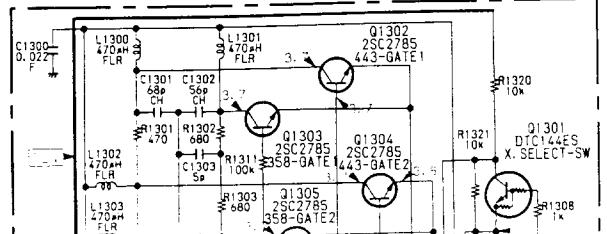


A
B
C
D
E
F
G
H
I
J
K



IC-NO.	PIN-NO.	PAL	SECAM	NTSC 3.58	NTSC 4.43
Q1400	(1)	0.6	11.0	11.0	0.5
Q1400	(2)	8.3	2.2	2.2	8.4
Q1400	(3)	8.2	3.8-7.1	3.8	8.3
Q1403	(7)	10.9			10.9

Q-NO.	PAL	SECAM	NTSC 3.58	NTSC 4.43
Q1400	B			
Q1400	C			
Q1400	E	6.0	6.0	5.1
Q1401	B	5.4	10.9	10.9
Q1401	C	6.0	4.5-7.3	4.5-7.3
Q1403	B			
Q1403	C	7.0	6.8	5.9
Q1403	E			



SECAM
 R-Y (SEC)
 B-Y (SEC)
 G
 4.43
 U (B)
 V (R)
 H-P
 G
 BURST O

TO BA BOARD
 BA-1

BURST
 HUE CO
 KILLER C
 G
 FROM A
 G
 TO A
 G
 SC-
 S-
 Y-O
 G
 SY-
 V
 COMPOSITE

A-
 15
 WH
 TO BA BOARD
 BA-2

Note :

- All capacitors are in μF unless otherwise noted.
 μF : 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 1/4W

G

- All resistors are in ohms.
- : nonflammable resistor.
- : fusible resistor.
- : internal component.
- : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- When replacing the part in below table be sure to perform the related adjustment.

Part replaced	Adjustment (※)
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, NL501, HVR	R500 (HOLD-DOWN)

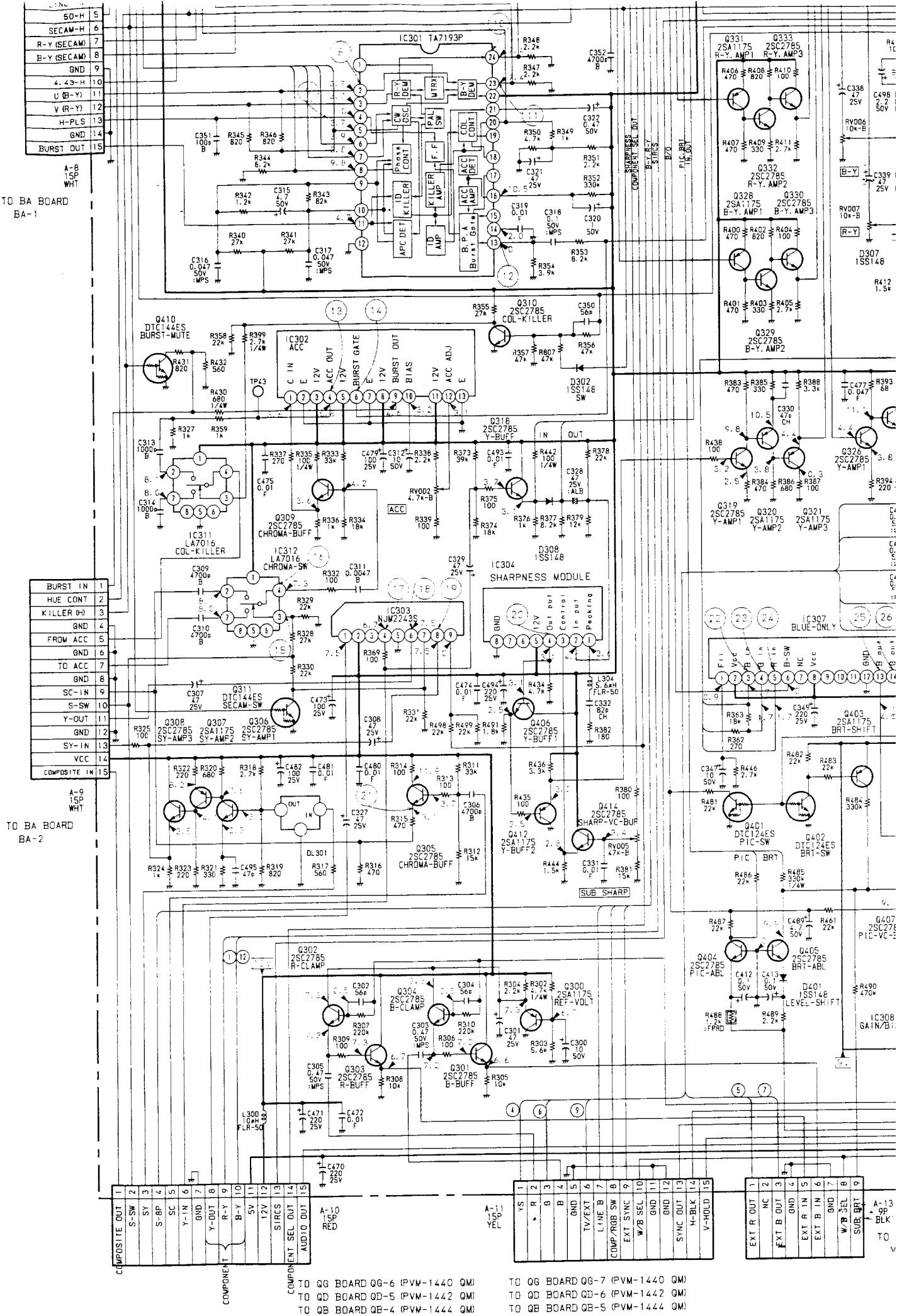
- All voltages are in V.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a color-bar signal input.
- Readings are taken with a PAL color-bar signal input.
- Voltage variations may be noted due to normal production tolerance.
- : B+ bus.
- : B- bus.
- : signal path.
- No mark : with PAL color-bar signal received or common voltage.
- () : with SECAM color-bar signal received.
- < > : with NTSC 3.58 color-bar signal received.
- (()) : with NTSC 4.43 color-bar signal received.
- [] : with S (Y/C) color-bar signal received.
- { } : with digital (9 pin in) color-bar signal received.
- * : measurement impossibility.

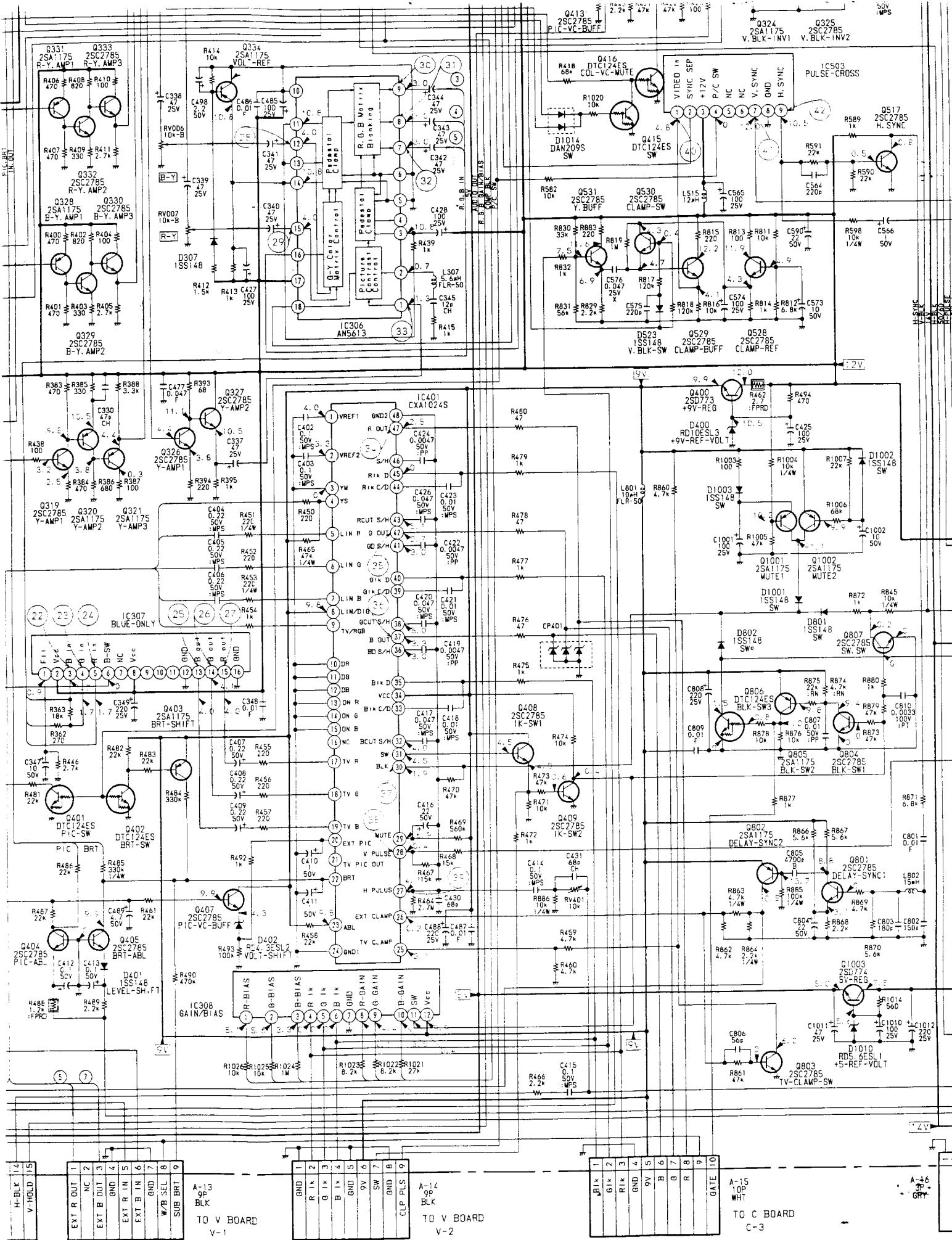
Reference information

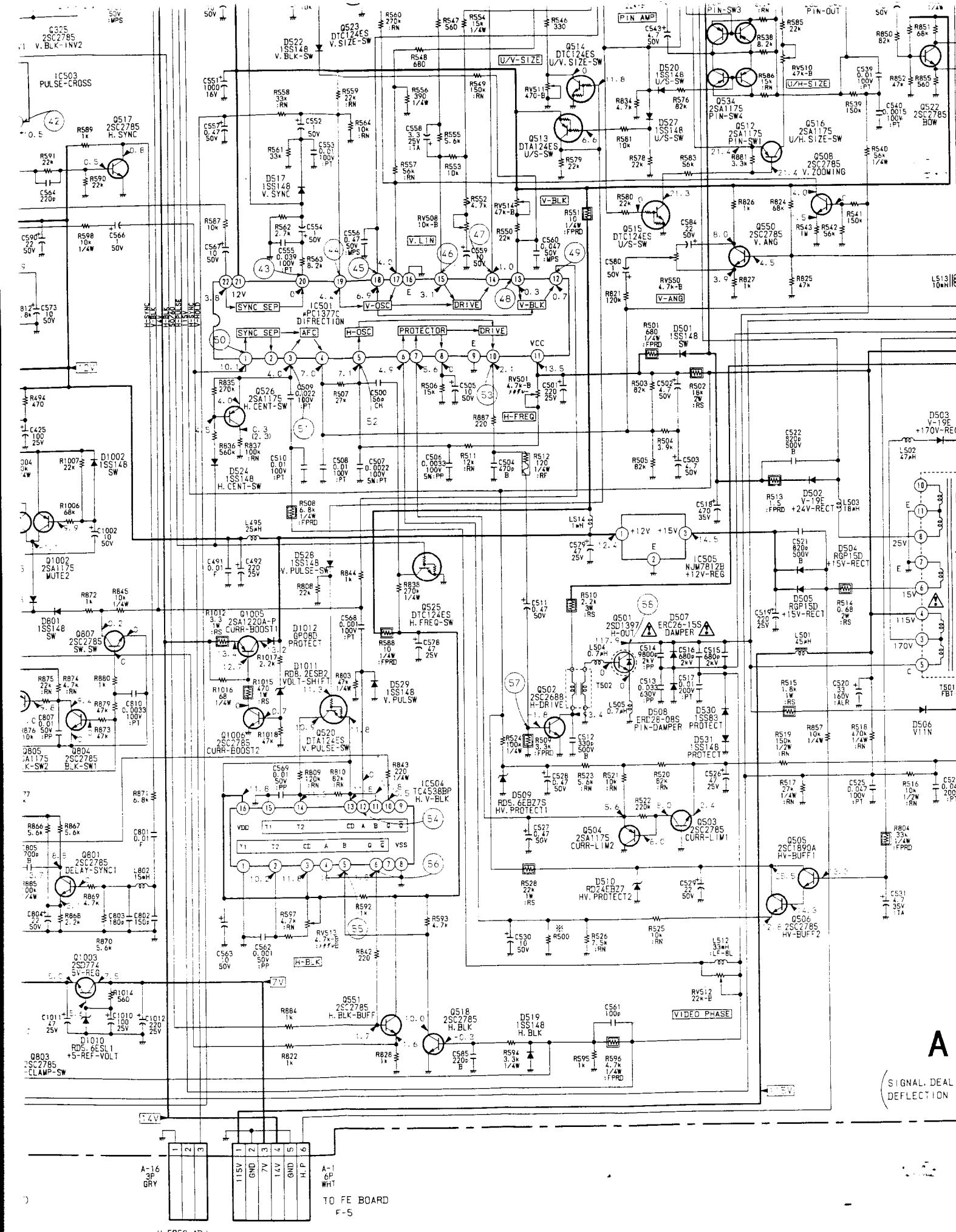
RESISTOR	: RN METAL FILM
	: RC SOLID
	: FPRD NONFLAMMABLE CARBON
	: FUSE NONFLAMMABLE FUSIBLE
	: RS NONFLAMMABLE WIREWOUND
	: RB NONFLAMMABLE CEMENT
COIL	: LF-8L MICRO INDUCTOR
CAPACITOR	: TA TANTALUM
	: PS STYROL
	: PP POLYPROPYLENE
	: PT MYLAR
	: MPS METALIZED POLYESTER
	: MPP METALIZED POLYPROPYLENE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

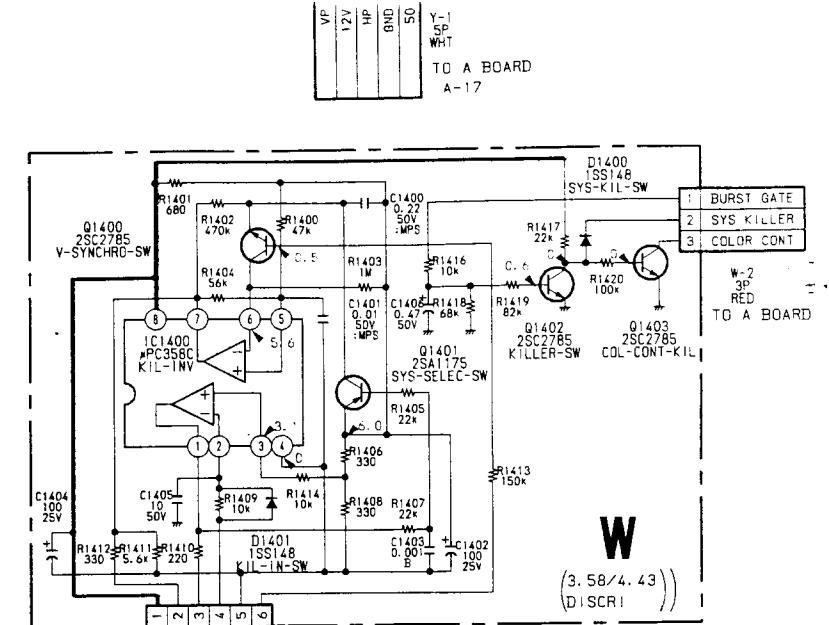
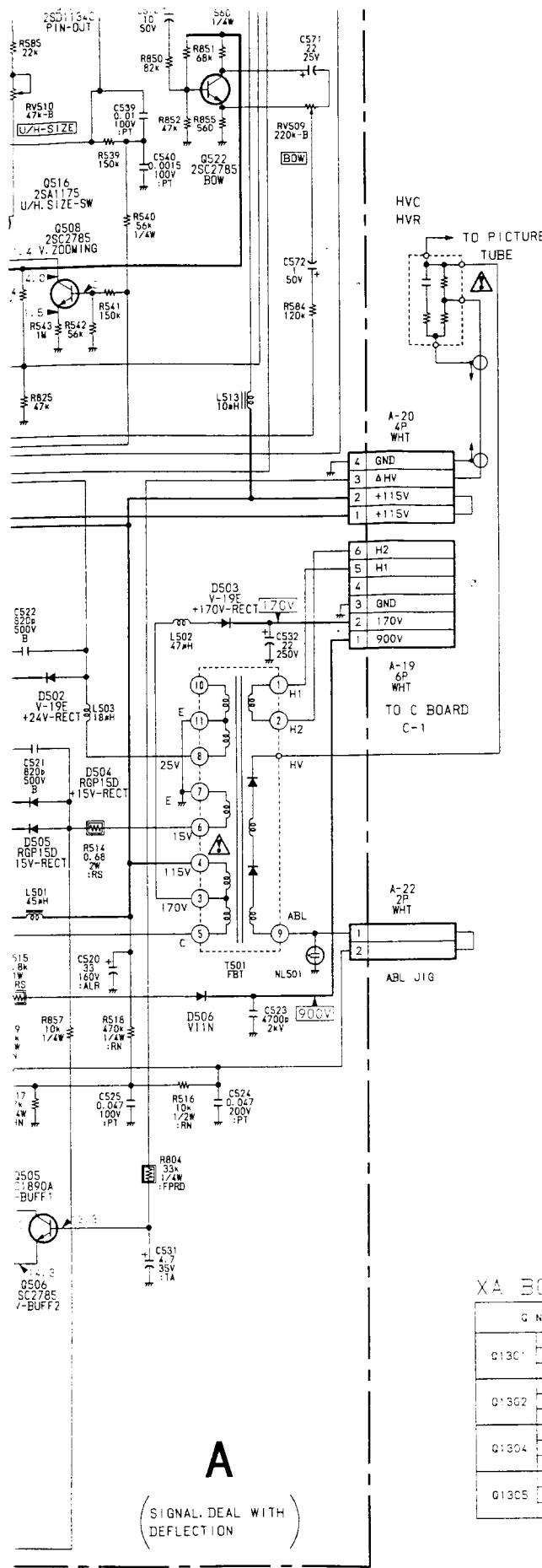
Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
IC301	0.4	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
IC302	0.5	1.1	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
IC303	0.5	1.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
IC304	0.5	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	1.8	10.2	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
IC305	0.5	1.6	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	0.5	6.2	9.8	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
	1.8	6.8	10.0	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
	0.5	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
IC306	0.5	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
IC307	0.5	1.1	1.7	3.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	0.5	6.1	12.5	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
IC308	0.5	9.1	6.9	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
	12.3	0.1	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
	9.1	10.5	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
IC309	0.5	4.3	0	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
IC310	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
	0.6	4.2	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
	4.4	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
	5.3	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
IC401	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6.0	5.7	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	4.3	1.6	1.2	0.8	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
	0.7	0.2	0.3	0	0	0	0	0	0	0	0	0	0	0	0
	0.4	0.9	1.1	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
	0.5	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
IC503	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0





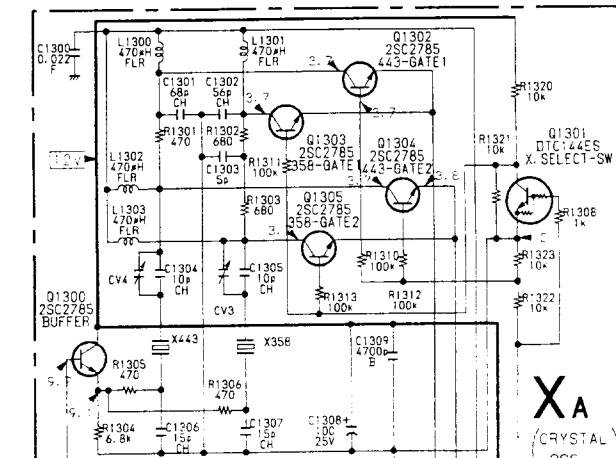




W BOARD

IC NO.	PIN NO.	PAL	SECAM	NTSC
	1	0.6	11.0	C. 6
	2	6.3	2.2	6.4
IC1400	3	6.2	3.8-7.1	B. 3
	4	10.9		10.9

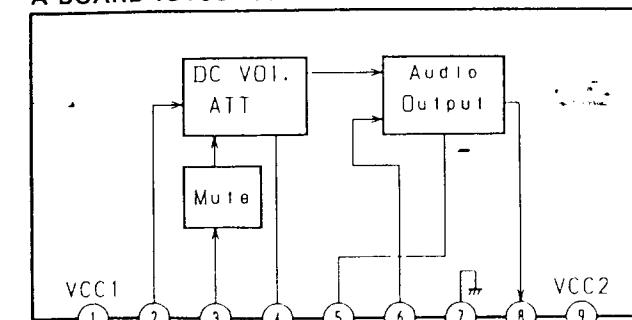
Q NO.	PAL	SECAM	NTSC
Q1400	B	C	3.58
	E	6.1	6.0
	E	5.4	15.9
Q1401	C	6.0	4.5-7.3
	E		4.5-7.3
Q1403	B	7.3	6.8
	E		5.9



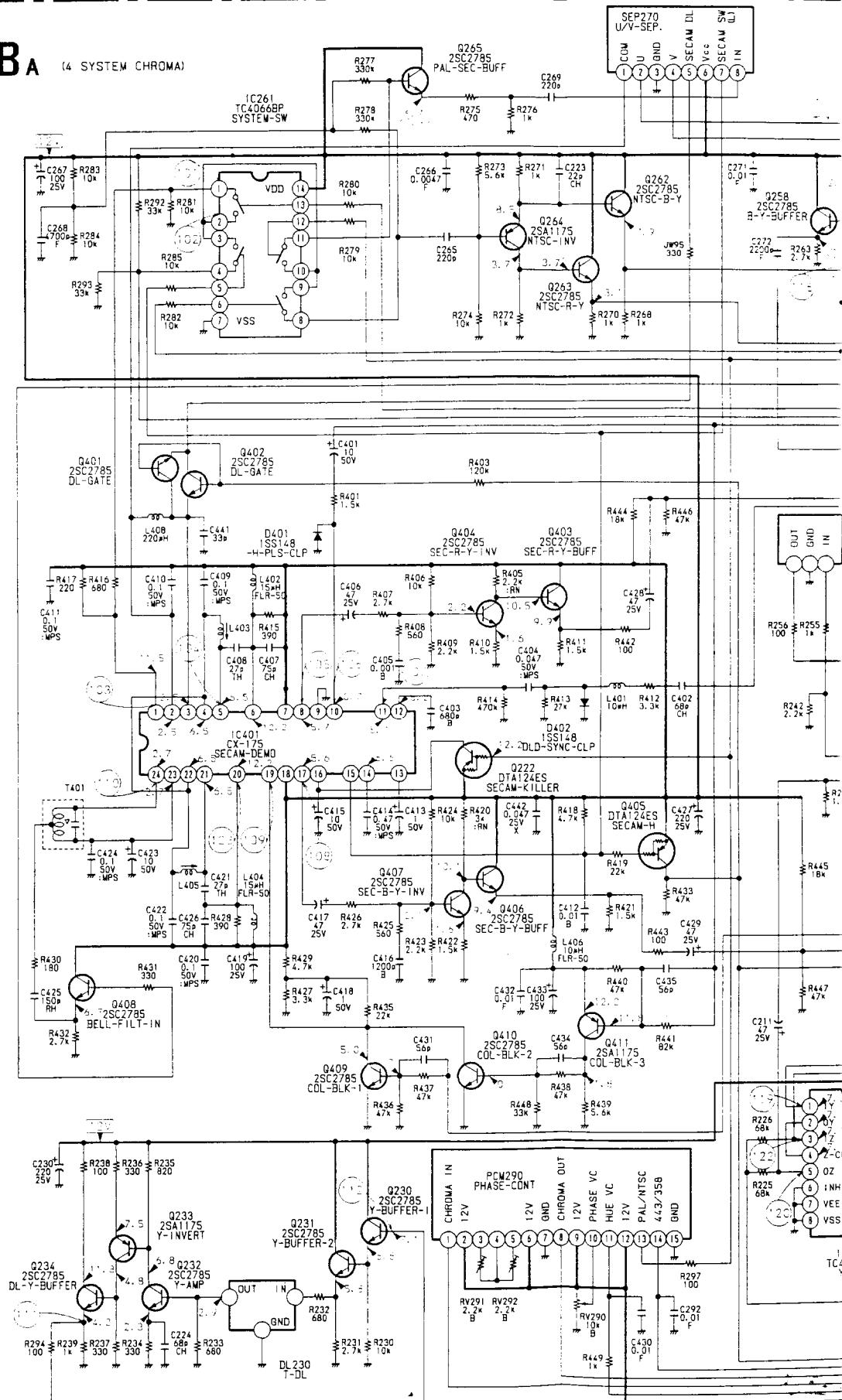
XA BOARD

Q NO.	PAL	SECAM	NTSC	NTSC	S-VIDEO/DIGITAL
Q1301	B	0	0	0	5.9
	C	10.3		10.3	5
	E				
Q1302	B	4.2		4.2	4.2
	C				
	E				
Q1304	B	4.1		3.9	C
	C				
	E				
Q1305	B	0		0	4.2
	C				
	E				

A BOARD IC1001 AN5265

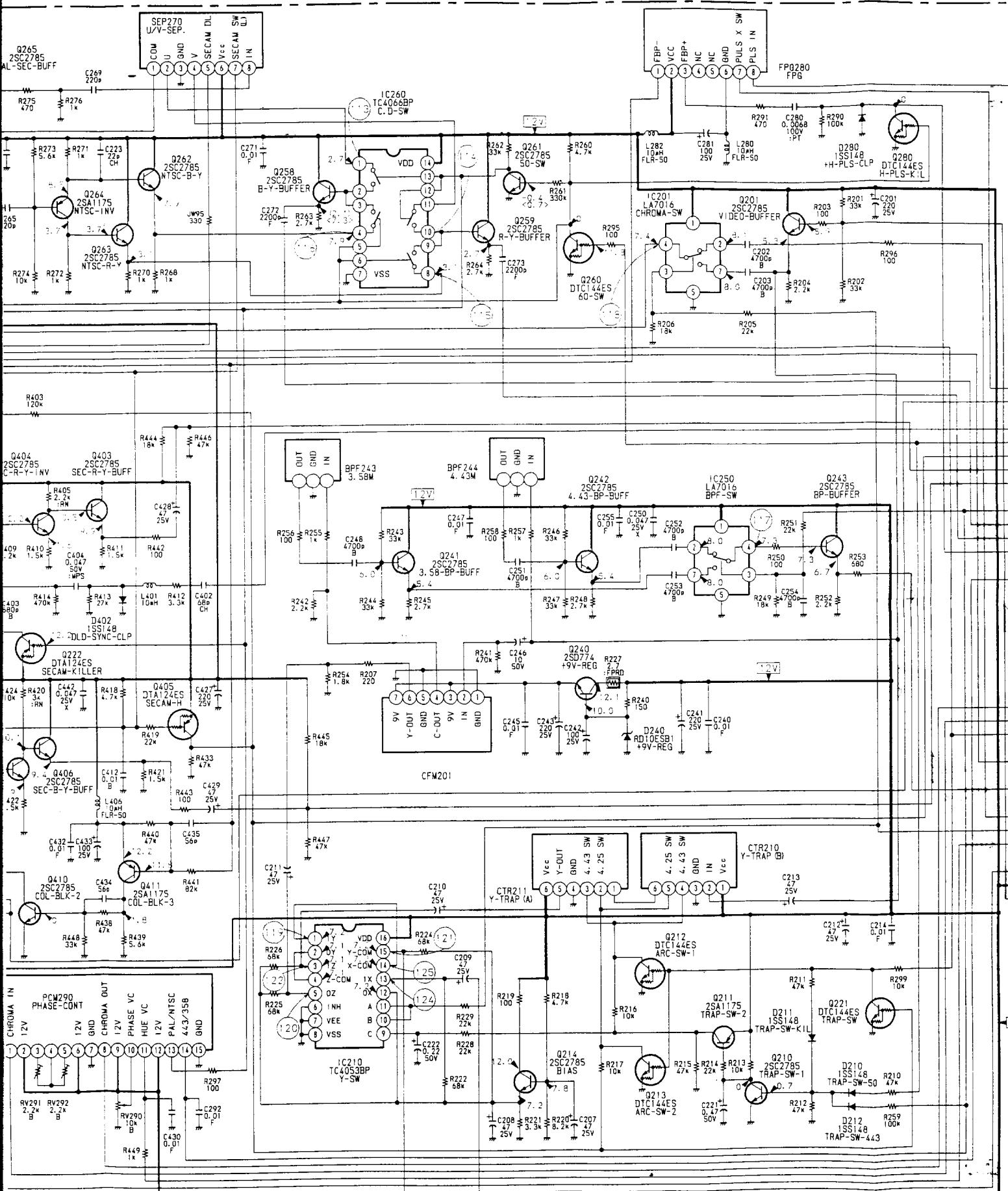


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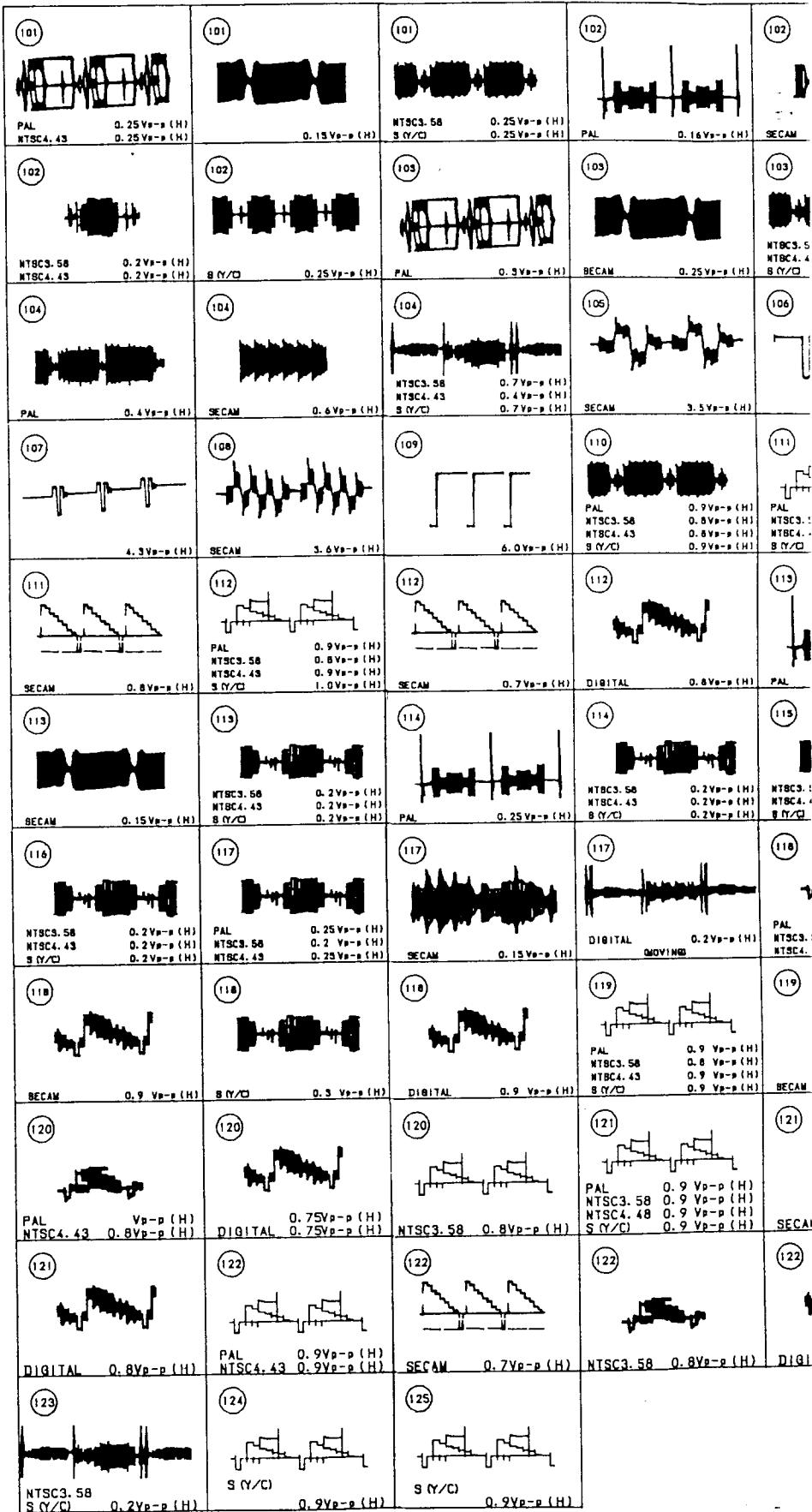
B A (4 SYSTEM CHROMA)

BA BOARD

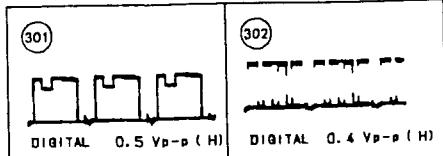
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1	2	3	4	5	6	7	8
1	2	3	4	5	6	7	8
1	2	3	4	5	6	7	8



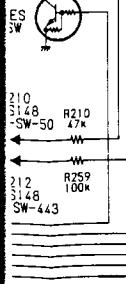
BA BOARD WAVEFORM

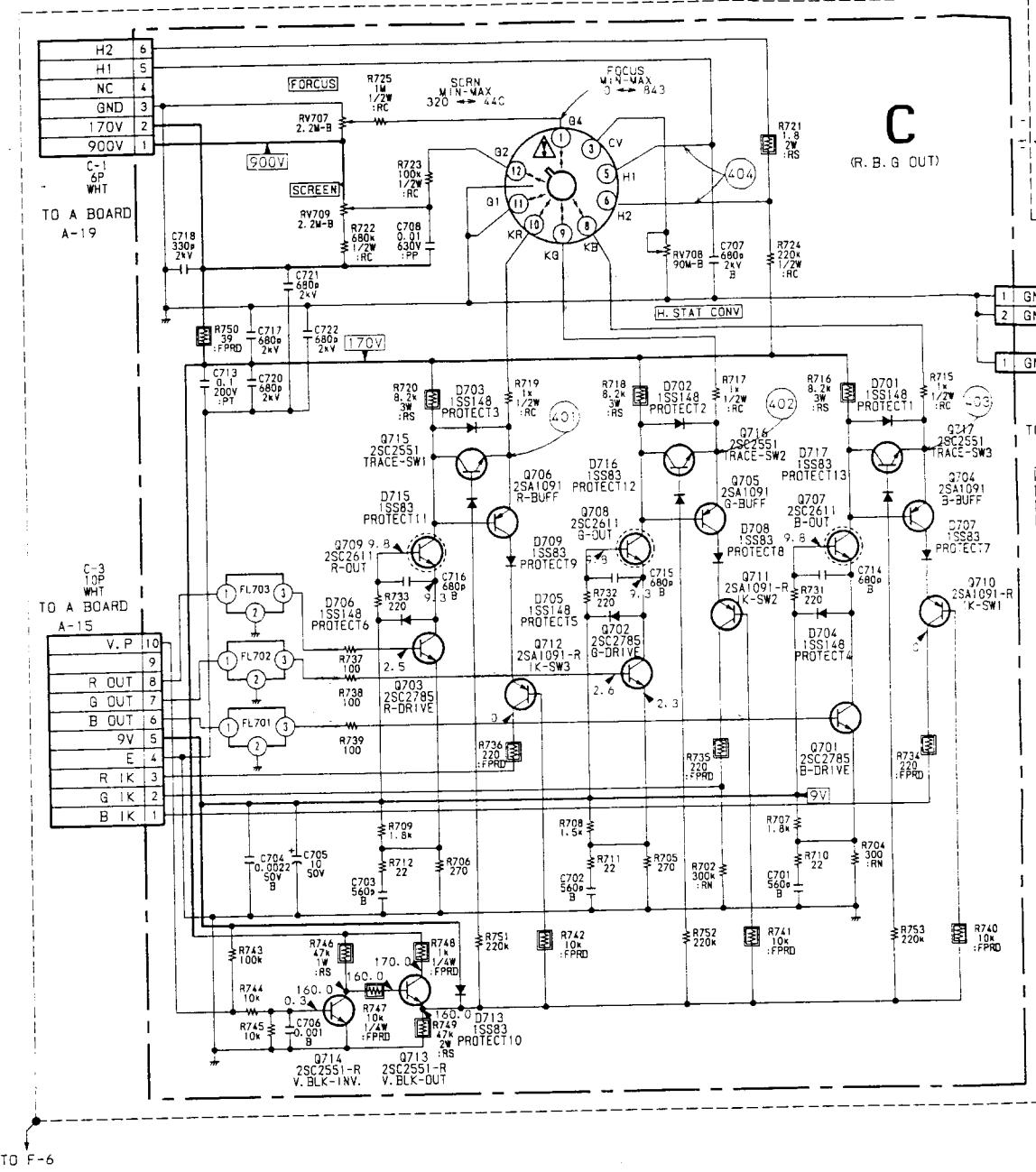
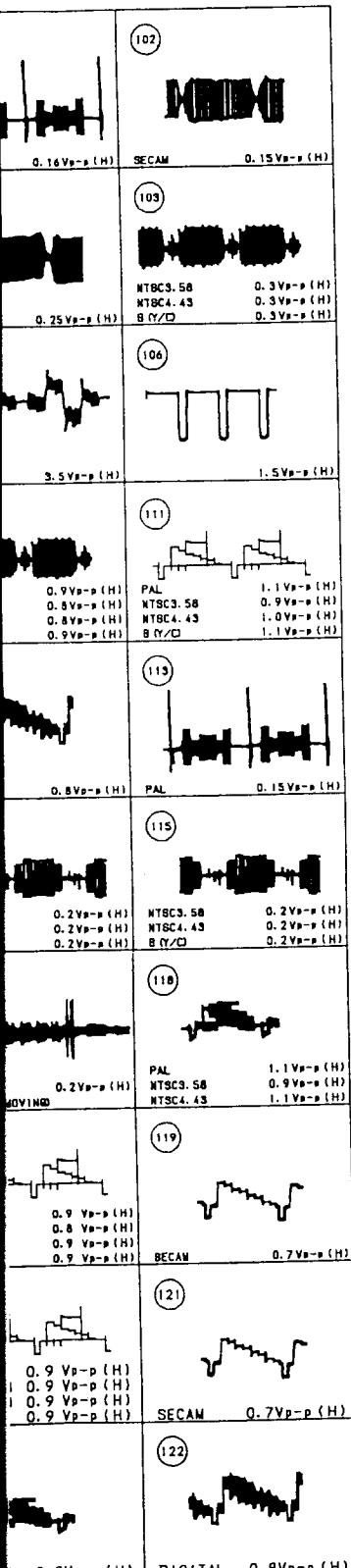


V BOARD WAVEFORM

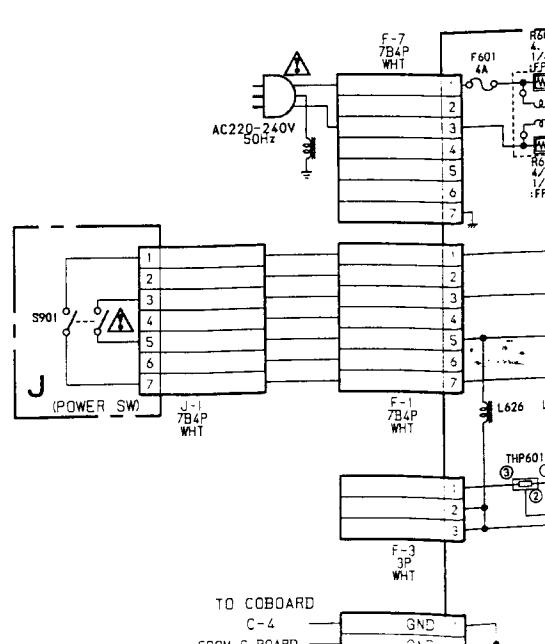


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TO F-6



28

29

30

31

32

33

34

A

B

C

D

E

F

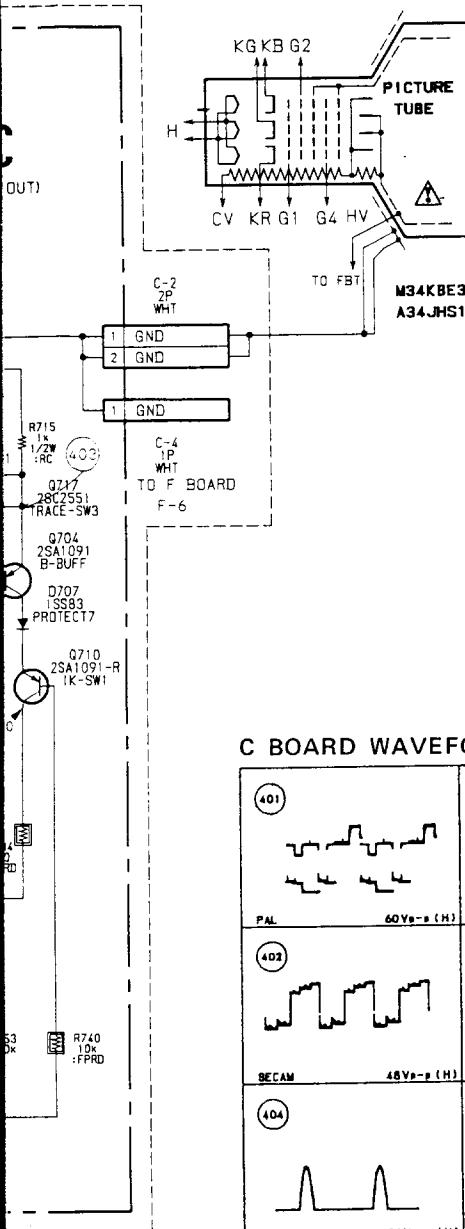
G

H

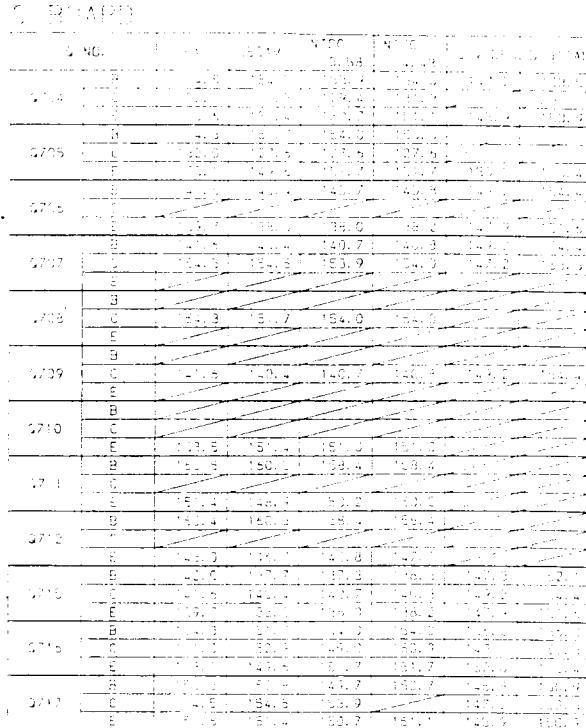
I

J

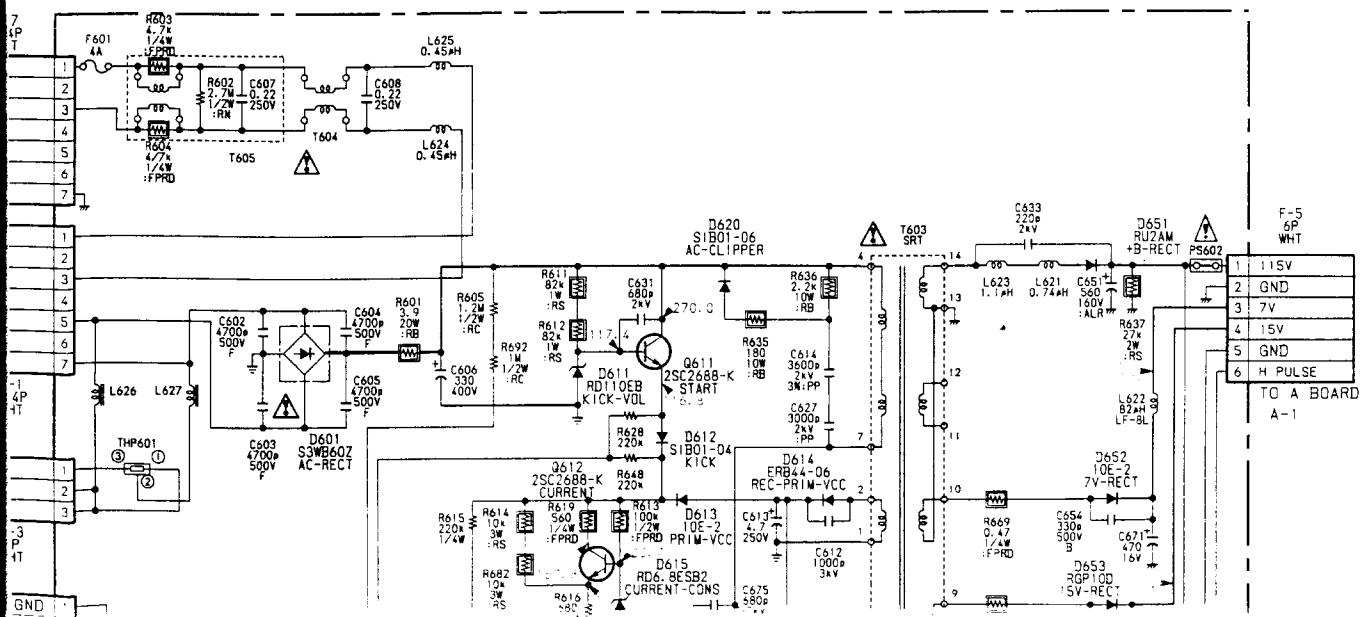
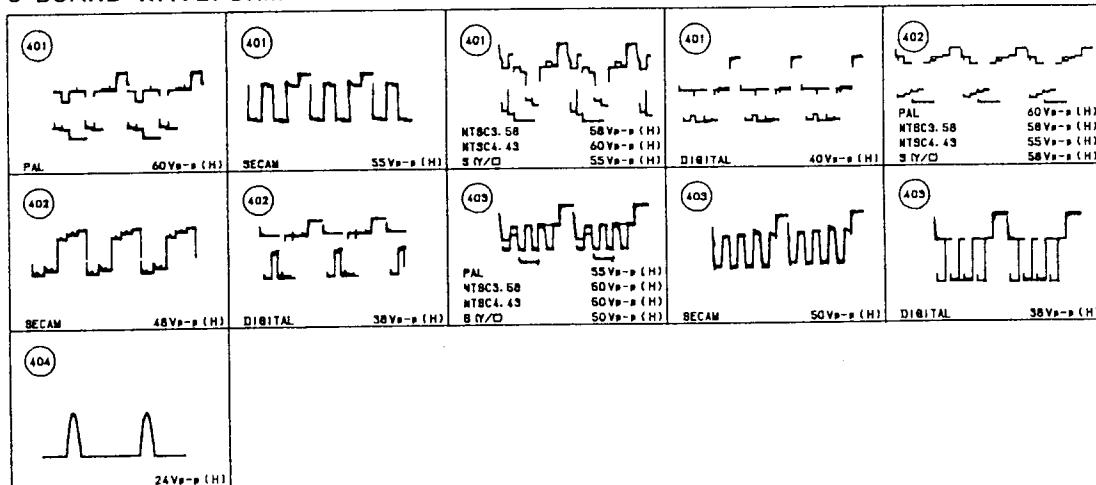
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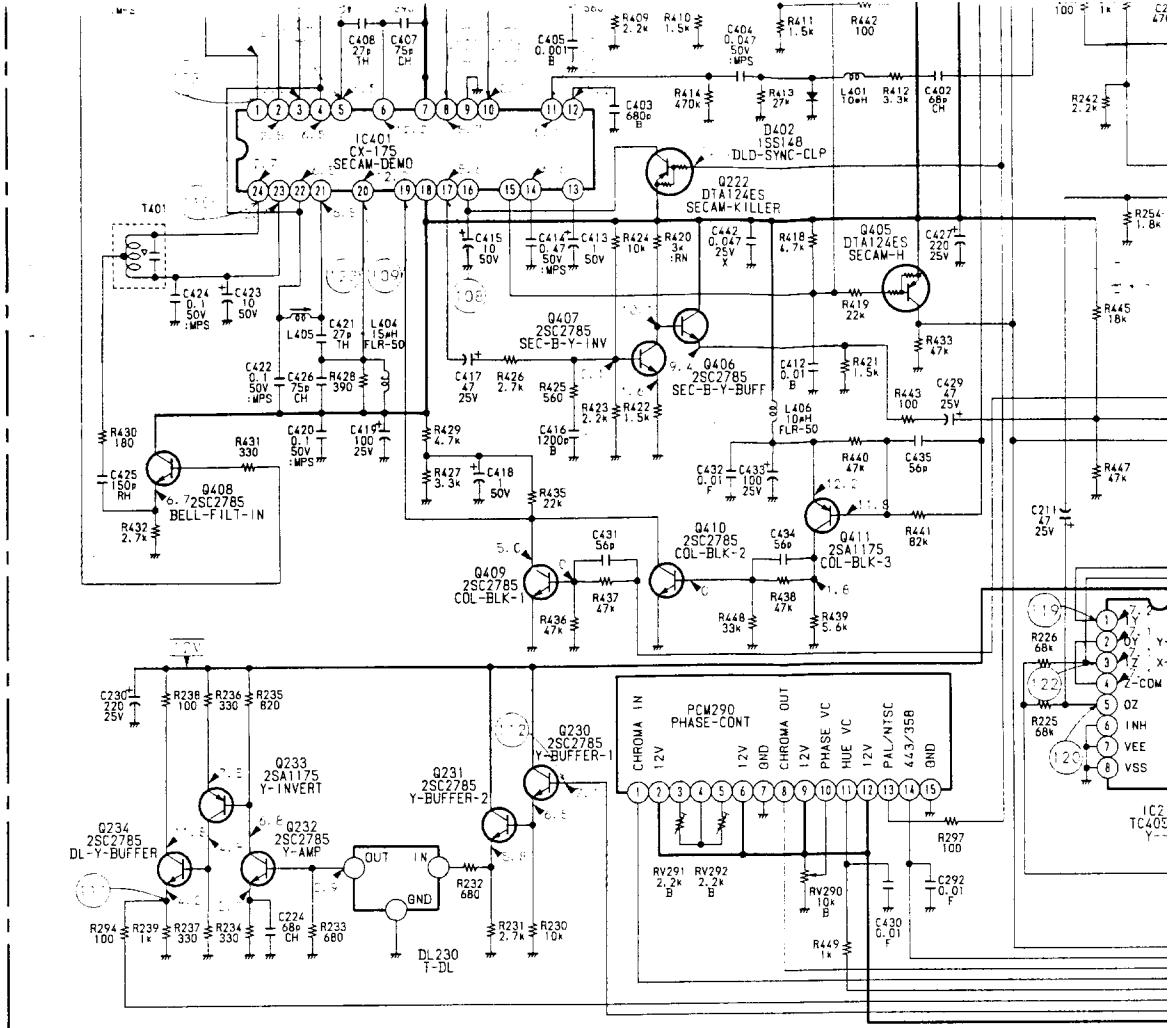


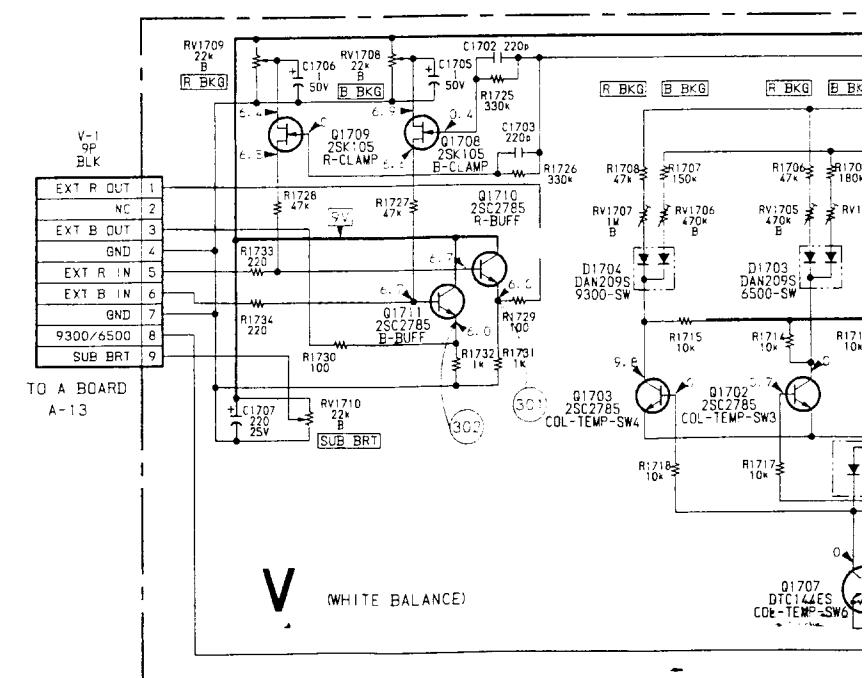
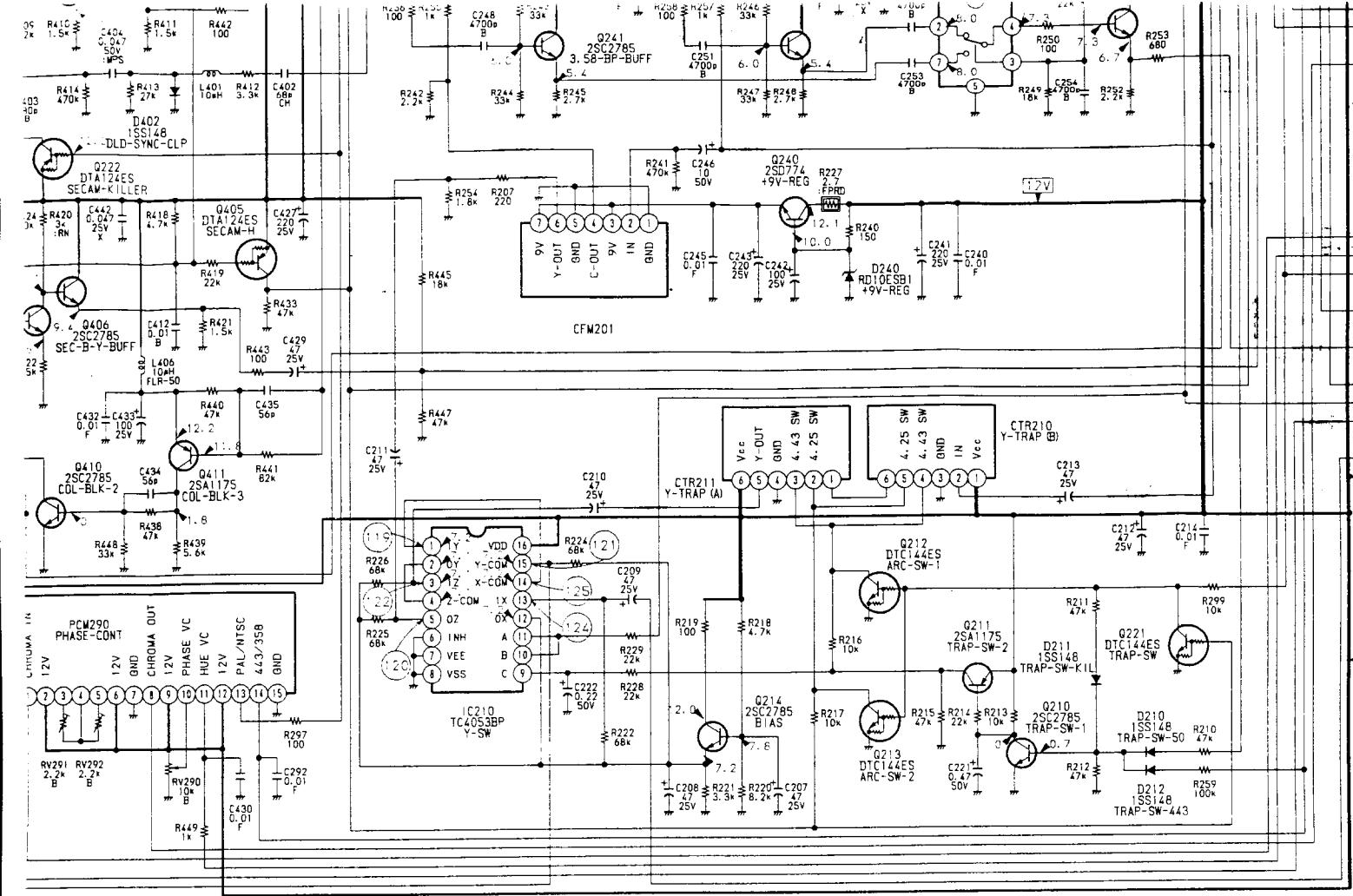
M34KBE31X (PVM-1442QM/1444QM)
A34JHS10X (PVM-1440QM)

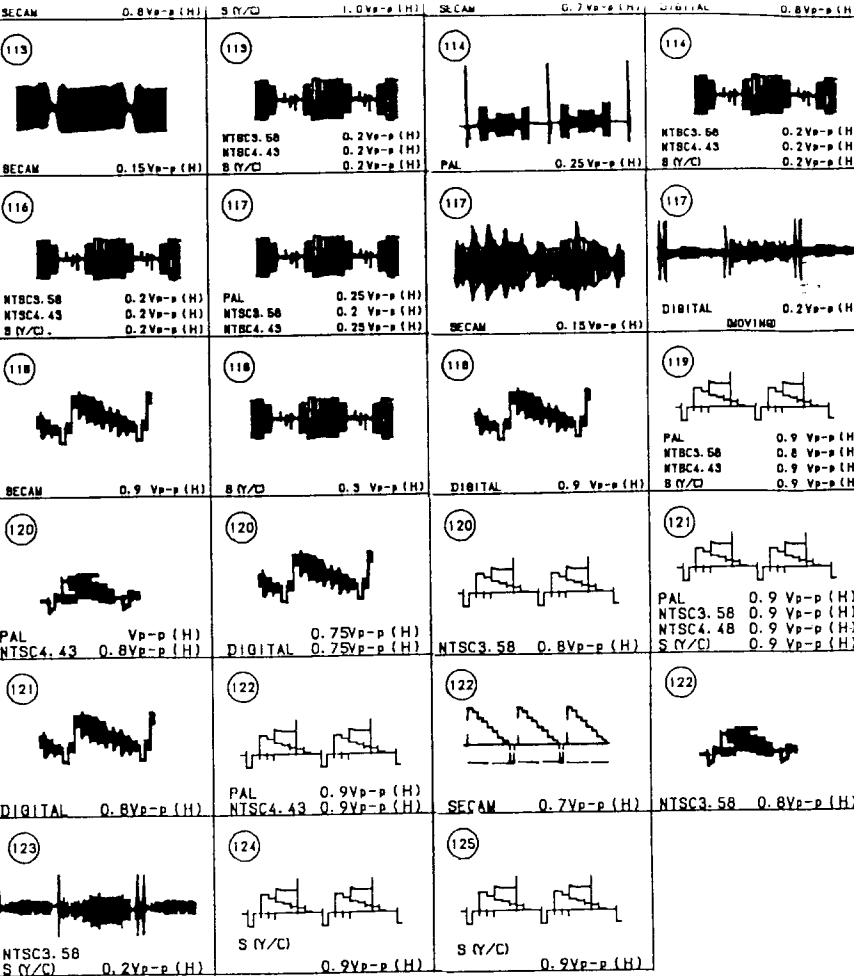
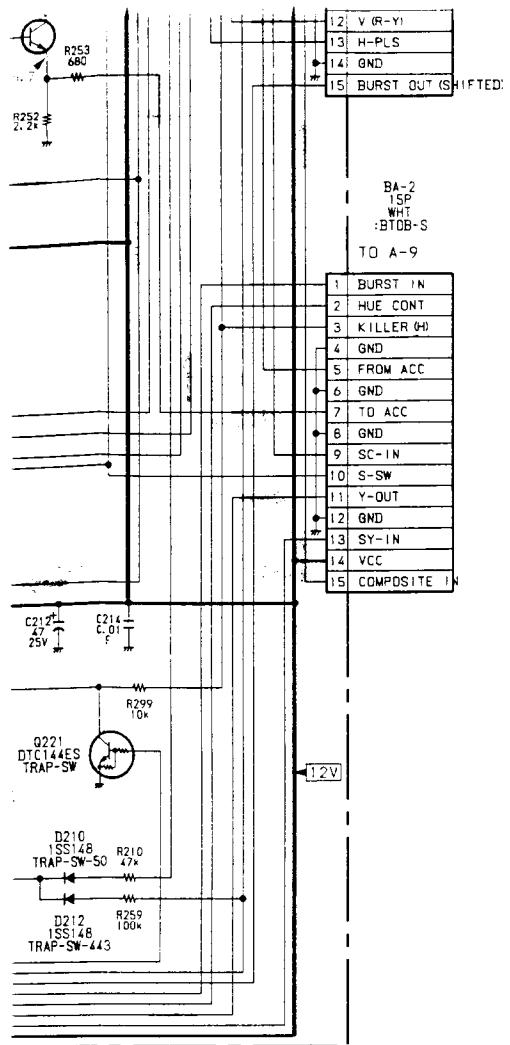


C BOARD WAVEFORM

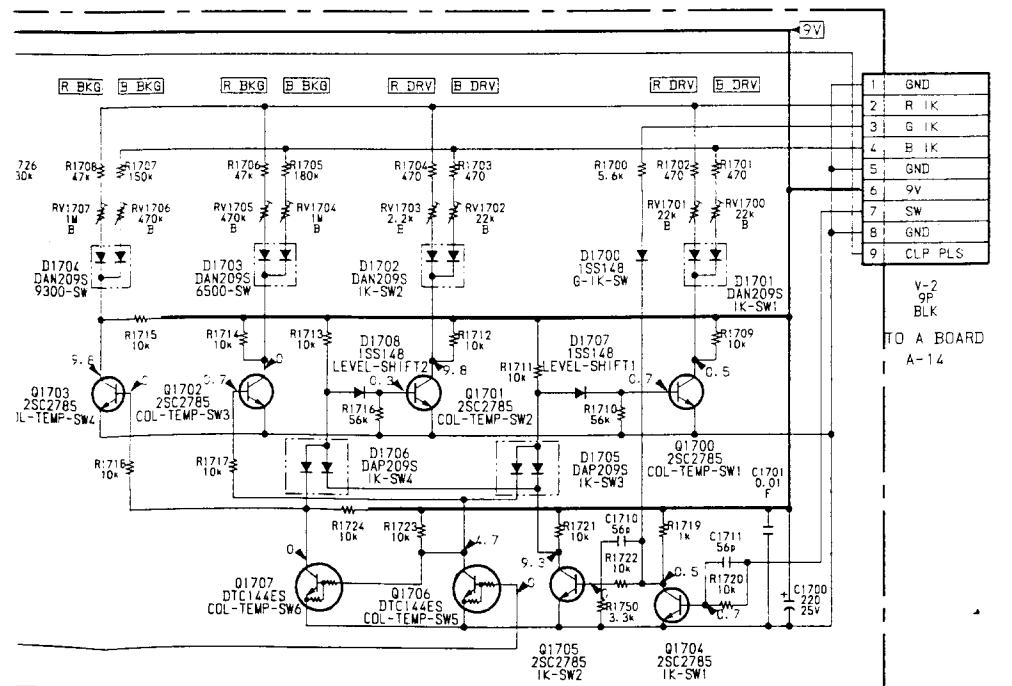
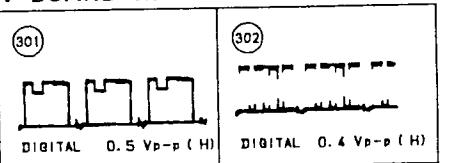




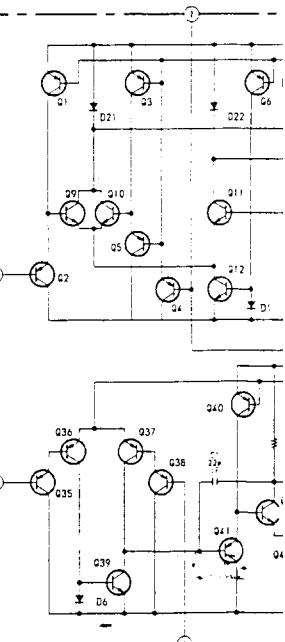


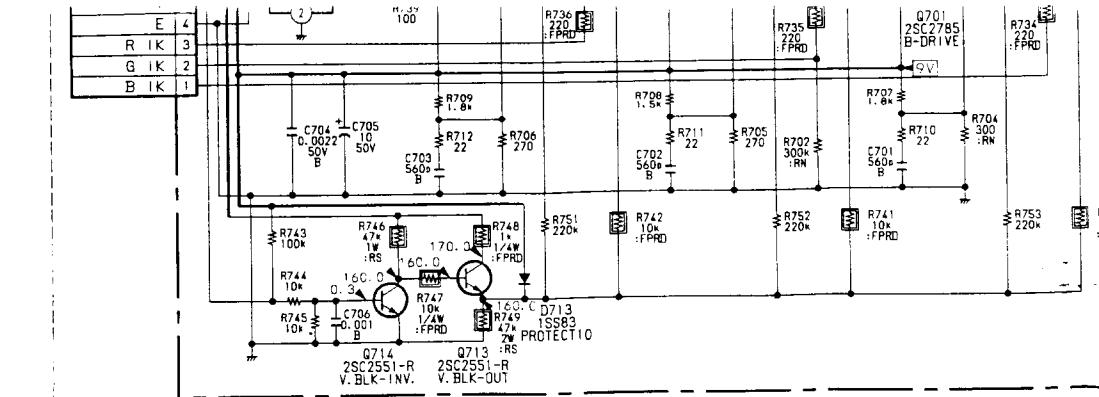
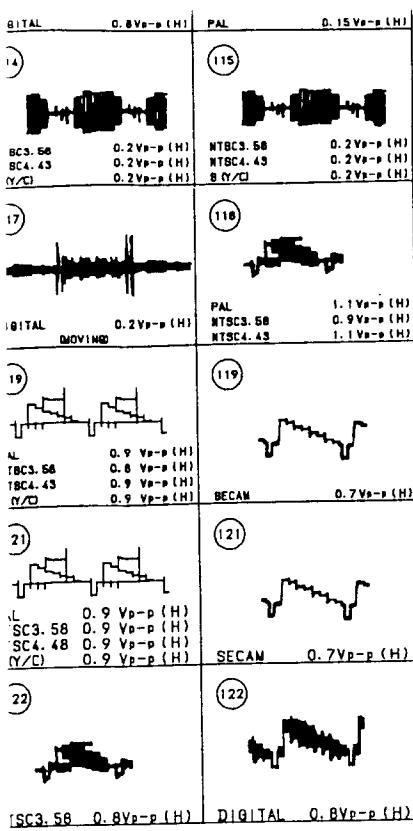


V BOARD WAVEFORM

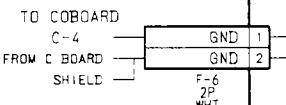
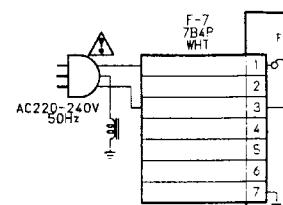


FE BOARD IC601 μPC13

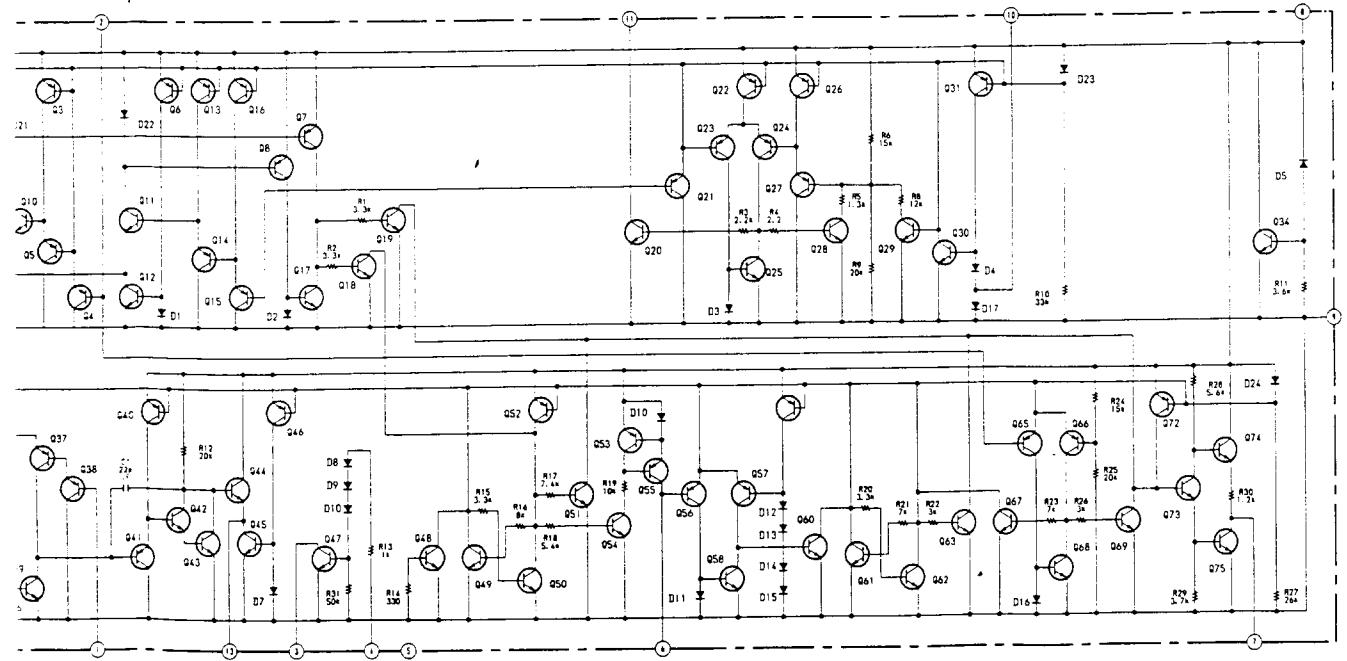


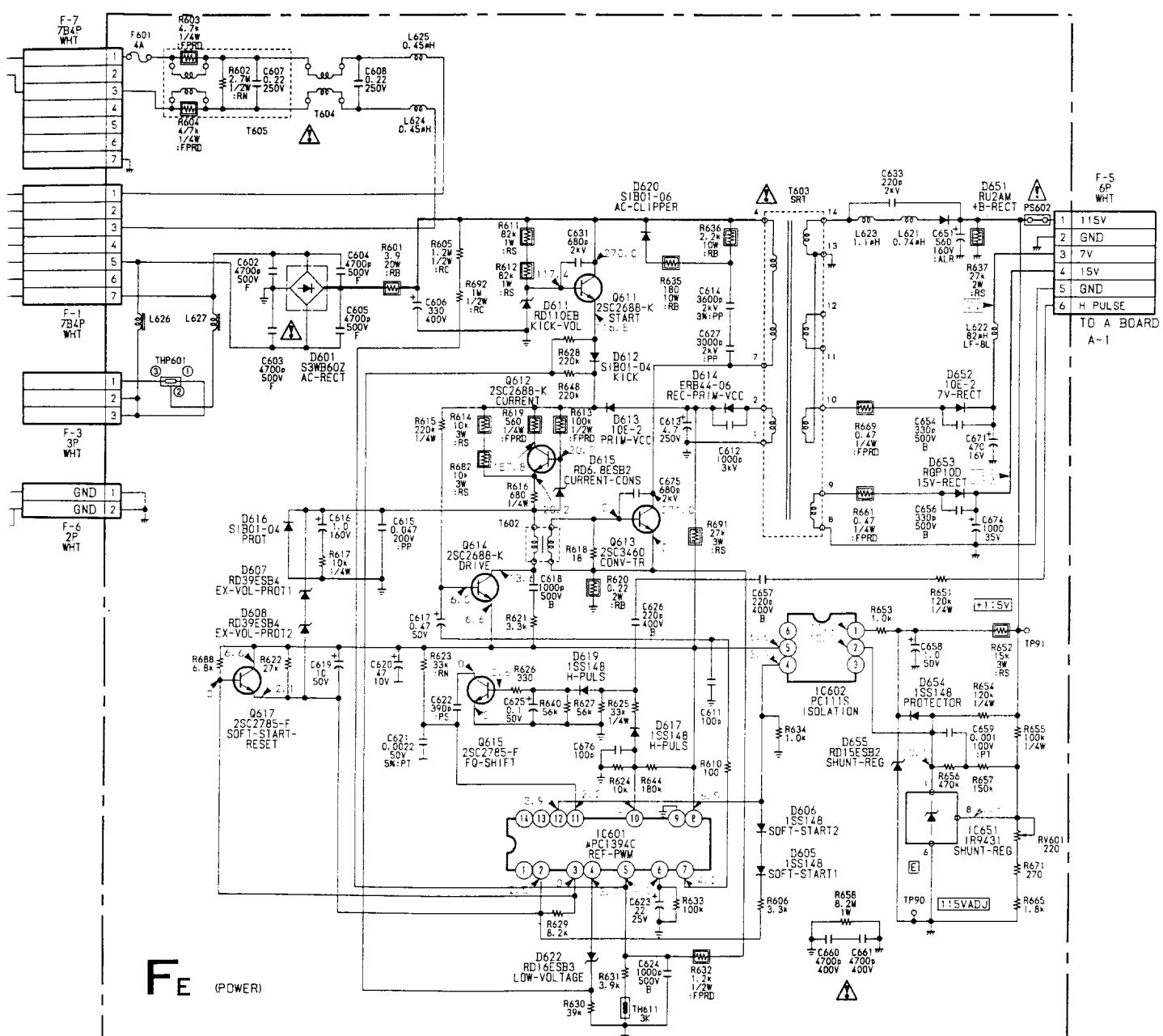
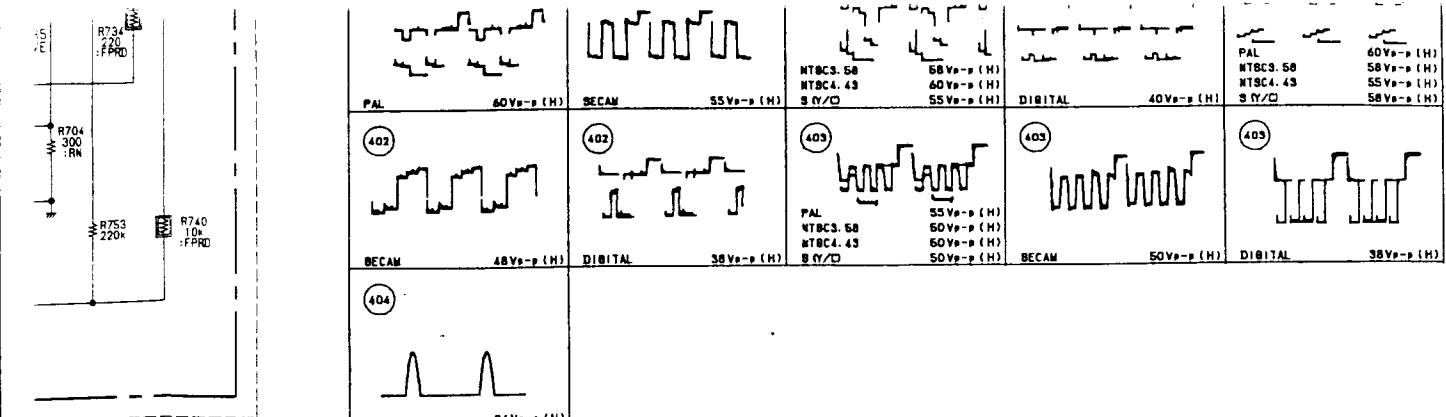


TO F-6



ID IC601 μPC1394C





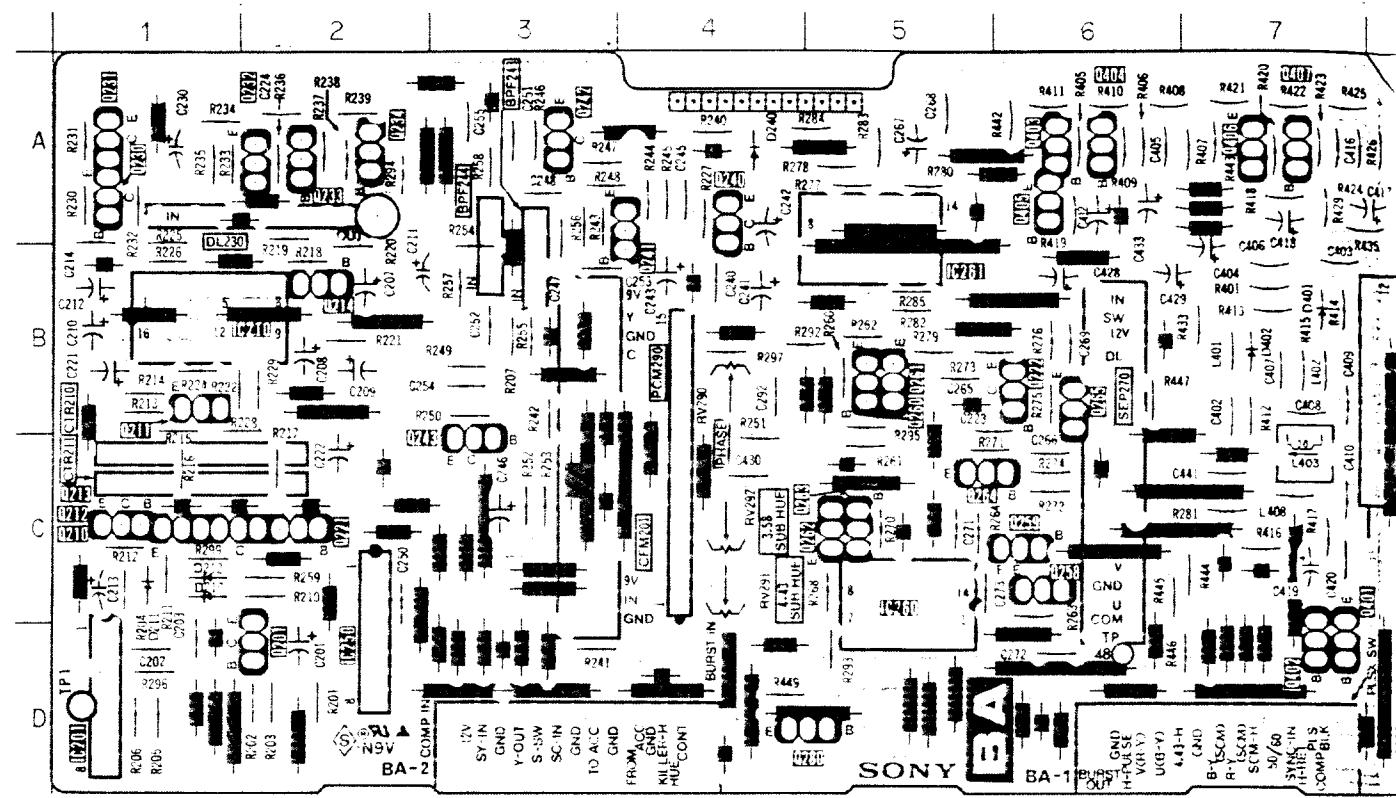
BA

[CHROMA FOR 4 SYSTEM]

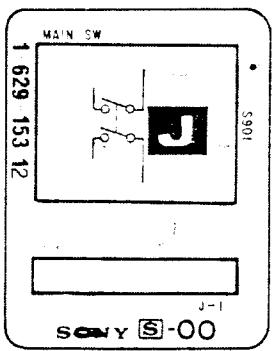
J

(POWER SW)

— BA Board —

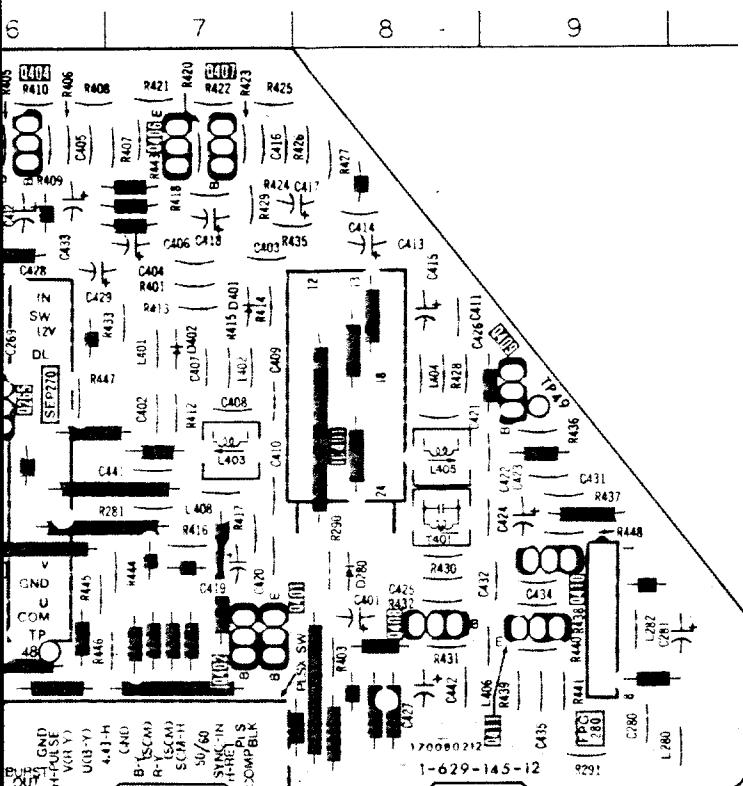


— J Board —



J

[POWER SW]

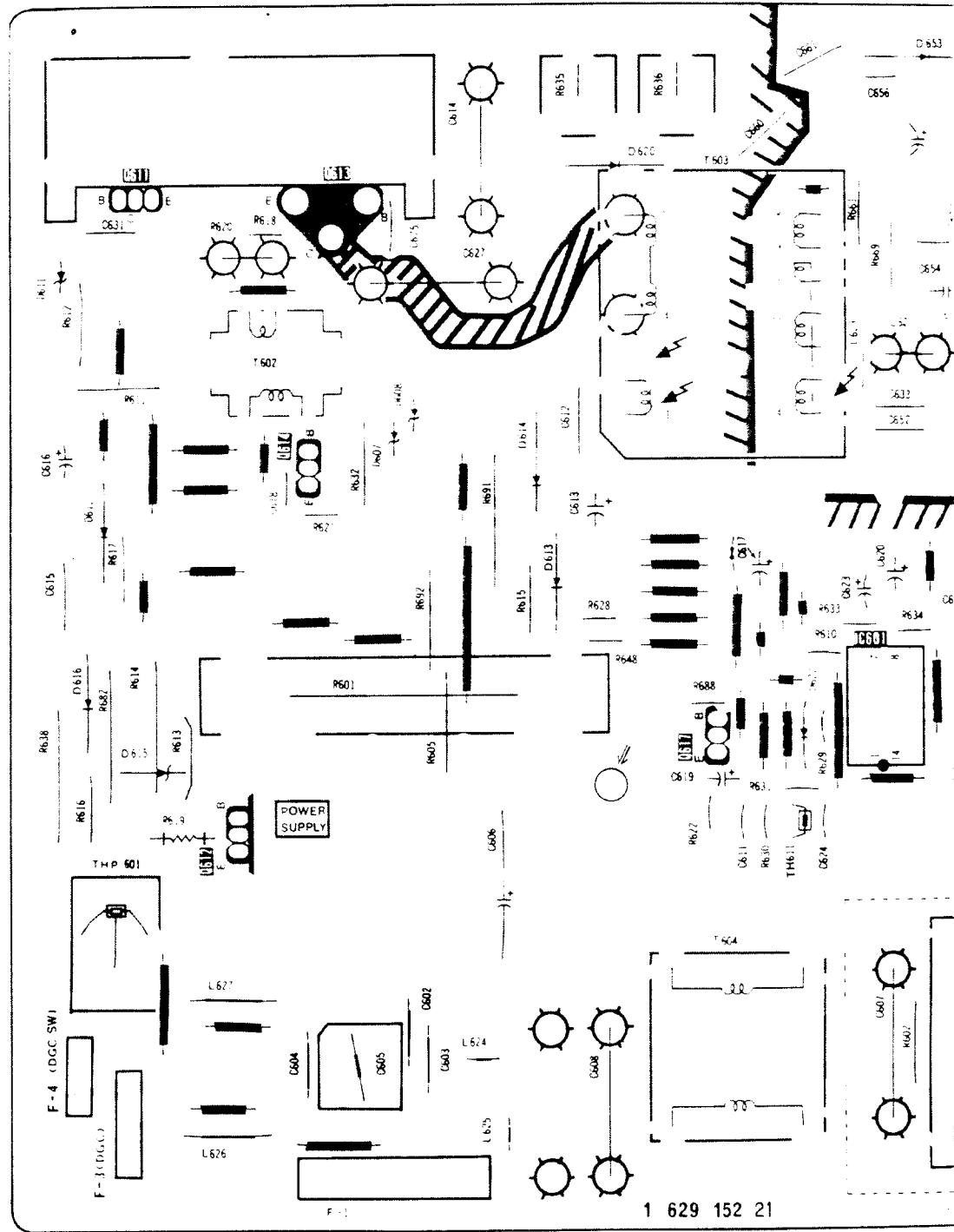


BA Board

IC	Q241 Q242	A-4 A-3	DIODE
IC201	D-1	Q243 Q258	D210 C-1
IC210	B-1	Q259	D211 C-1
IC250	D-2	Q260	D212 C-1
IC260	C-5	Q261	D240 A-4
IC261	B-5	Q262	D280 C-8
IC401	B-8	Q263	D401 B-7
			D402 B-7
TRANSISTOR	Q264 Q265	C-5 B-6	VARIABLE RESISTOR
Q201	D-2	Q280	RV290 B-4
Q210	C-1	Q401	RV291 C-4
Q211	B-1	Q402	RV292 C-4
Q212	C-1	Q403	
Q213	C-1	Q404	
Q214	B-2	Q405	
Q221	C-2	Q406	
Q222	B-6	Q407	
Q230	A-1	Q408	
Q231	A-1	Q409	
Q232	A-2	Q410	
Q233	A-2	Q411	
Q234	A-2		

— FE Board —

CODE

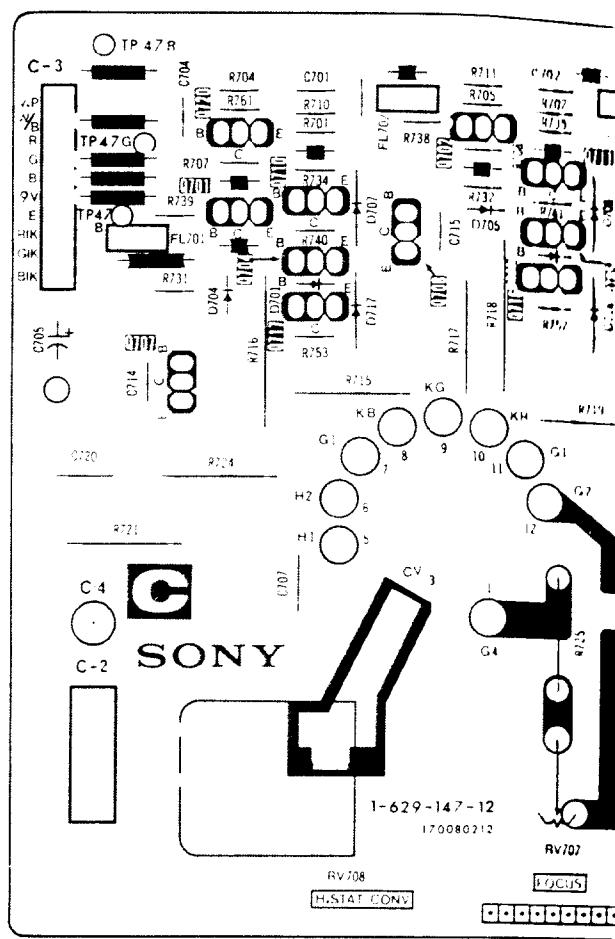
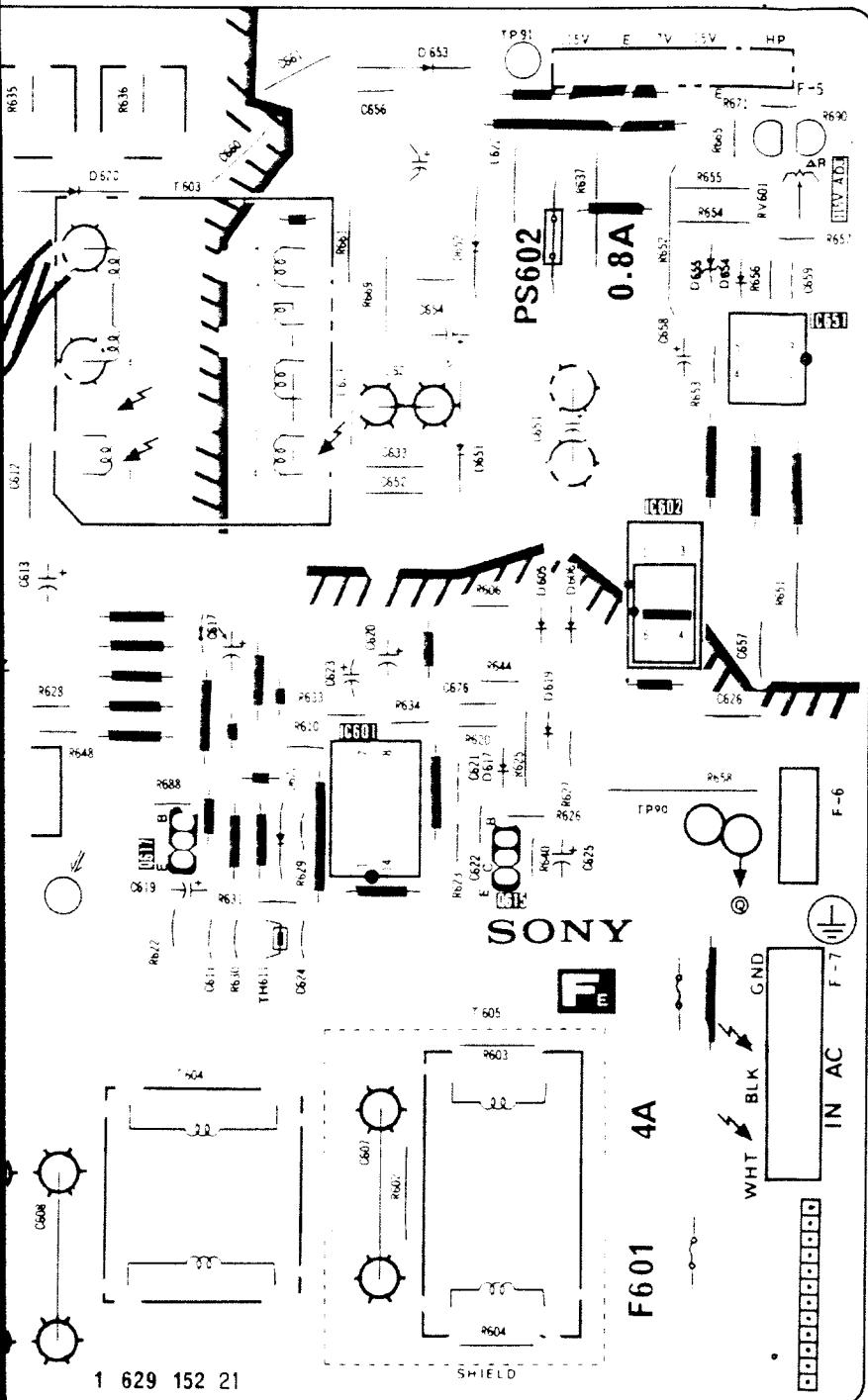
C-1
C-1
C-1
A-4
C-8
B-7
B-7TABLE
ISTORB-4
C-4
C-4

F E [POWER]

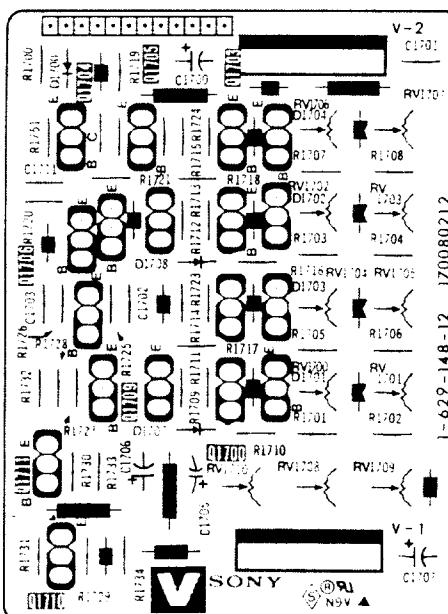
C [R.G.B OUT]

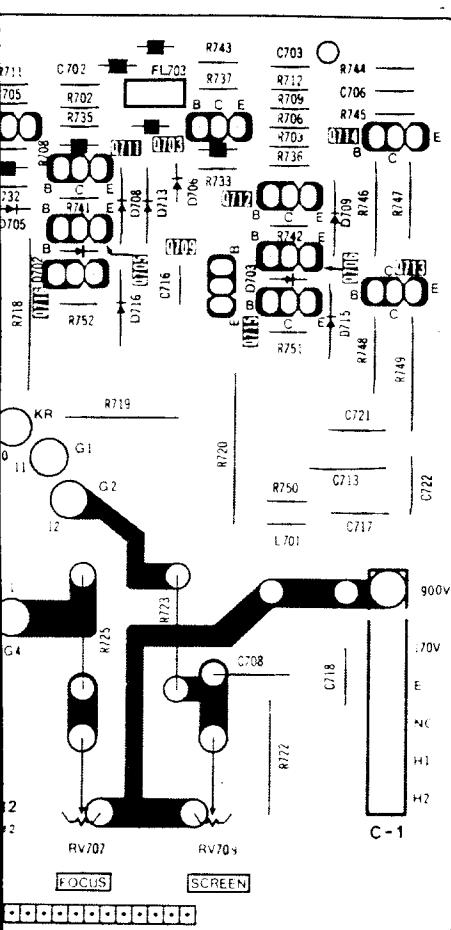
V [WHITE BALANCE]

— C Board —



— V Board —

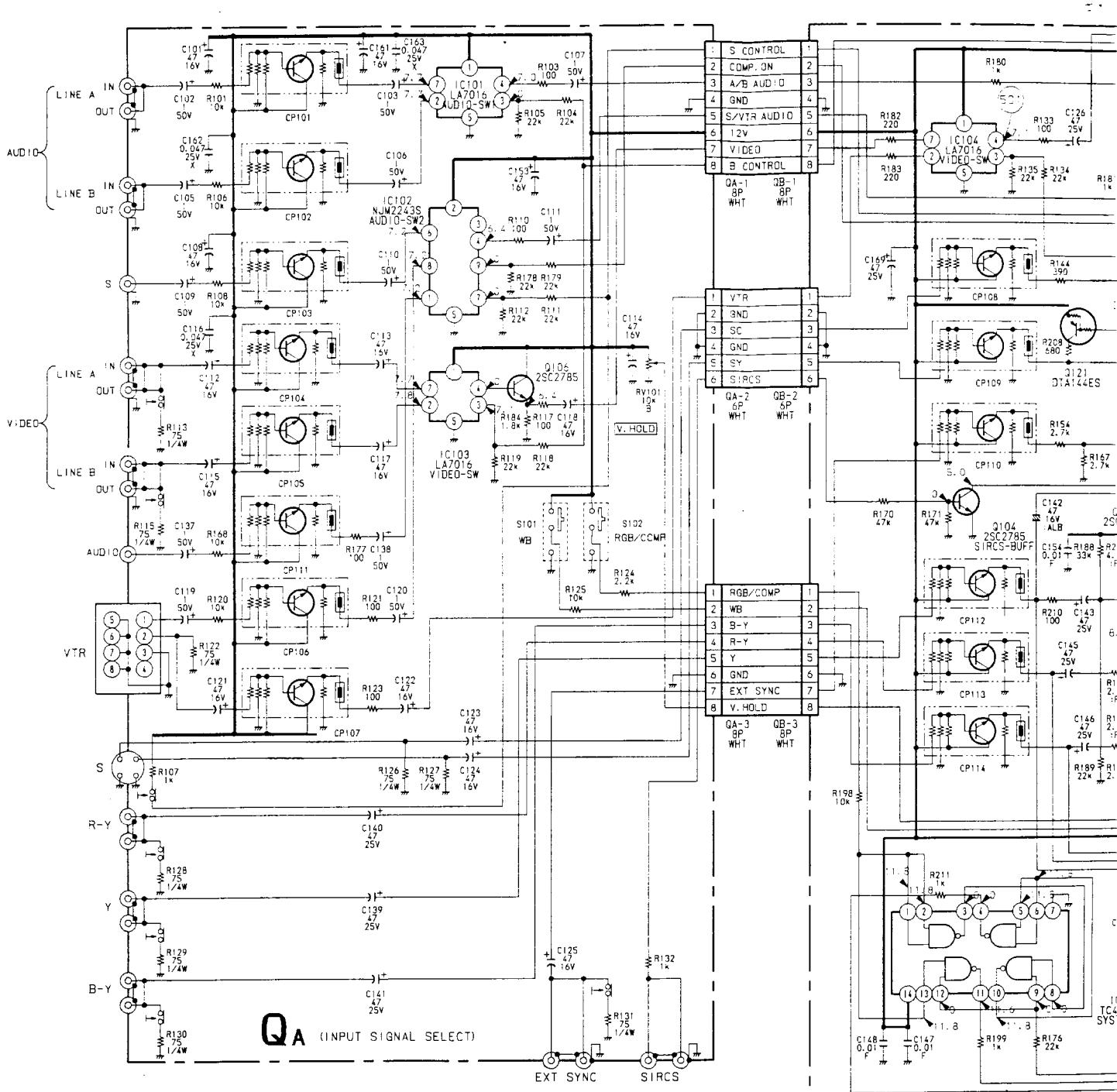




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Fax (01844) 352554
email:- mauritron@dial.pipex.com

1 2 3 4 5 6 7 8

(QA, QB Board: PVM-1444QM)



QB BOARD

IC-NO	PIN-NO	PAL	SECAM	NTSC	NTSC	S-VIDEO
Q103	(1)	7.8	7.8	7.8	7.8	7.7
Q103	(3)	0.7	0.7	0.7	0.7	5.6
Q103	(5)	7.7	7.7	7.7	7.7	7.8
Q105	(1)	0.5	0.5	0.5	0.5	5.3
Q105	(3)	7.7	7.7	7.7	7.7	7.8
Q106	(1)	0.4	0.4	0.4	0.4	3.3

QB BOARD W/

501		PAL	SECAM	NTSC	NTSC	S-VIDEO
		1.0	0.9	0.9	0.9	0.9
		NTSC3.58	0.9	NTSC	0.9	0.9
		NTSC4.43	1.0	NTSC	1.0	1.0

8

9

10

11

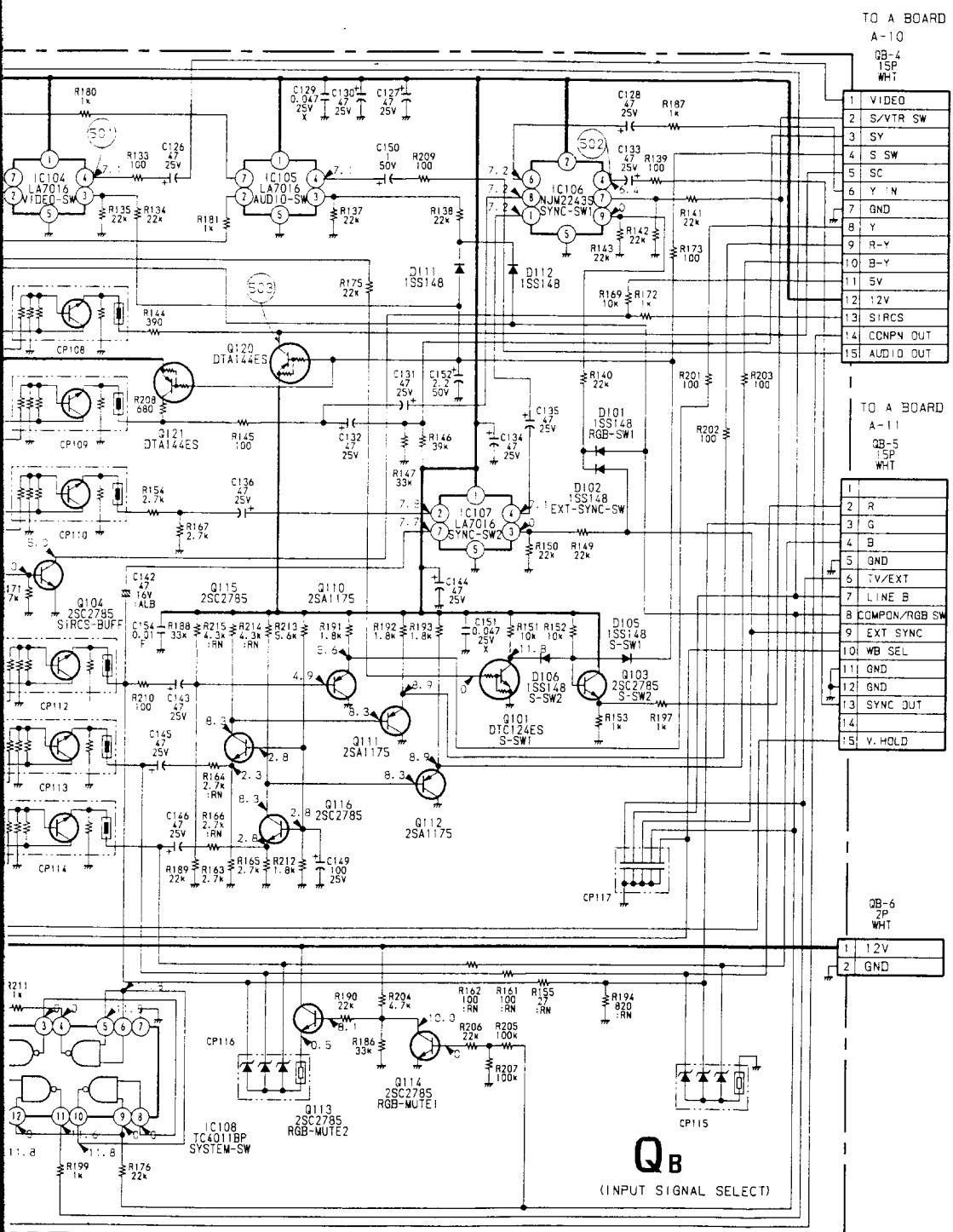
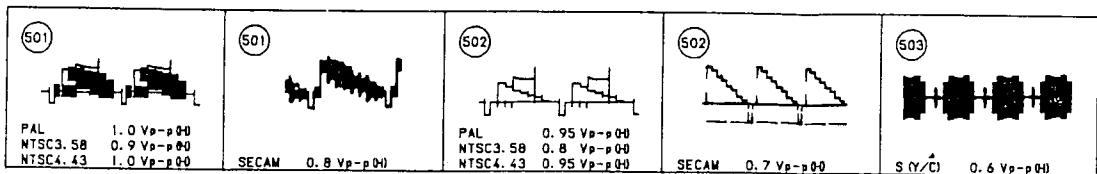
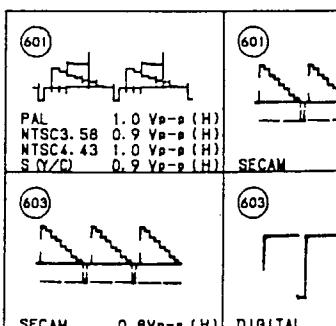
12

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14

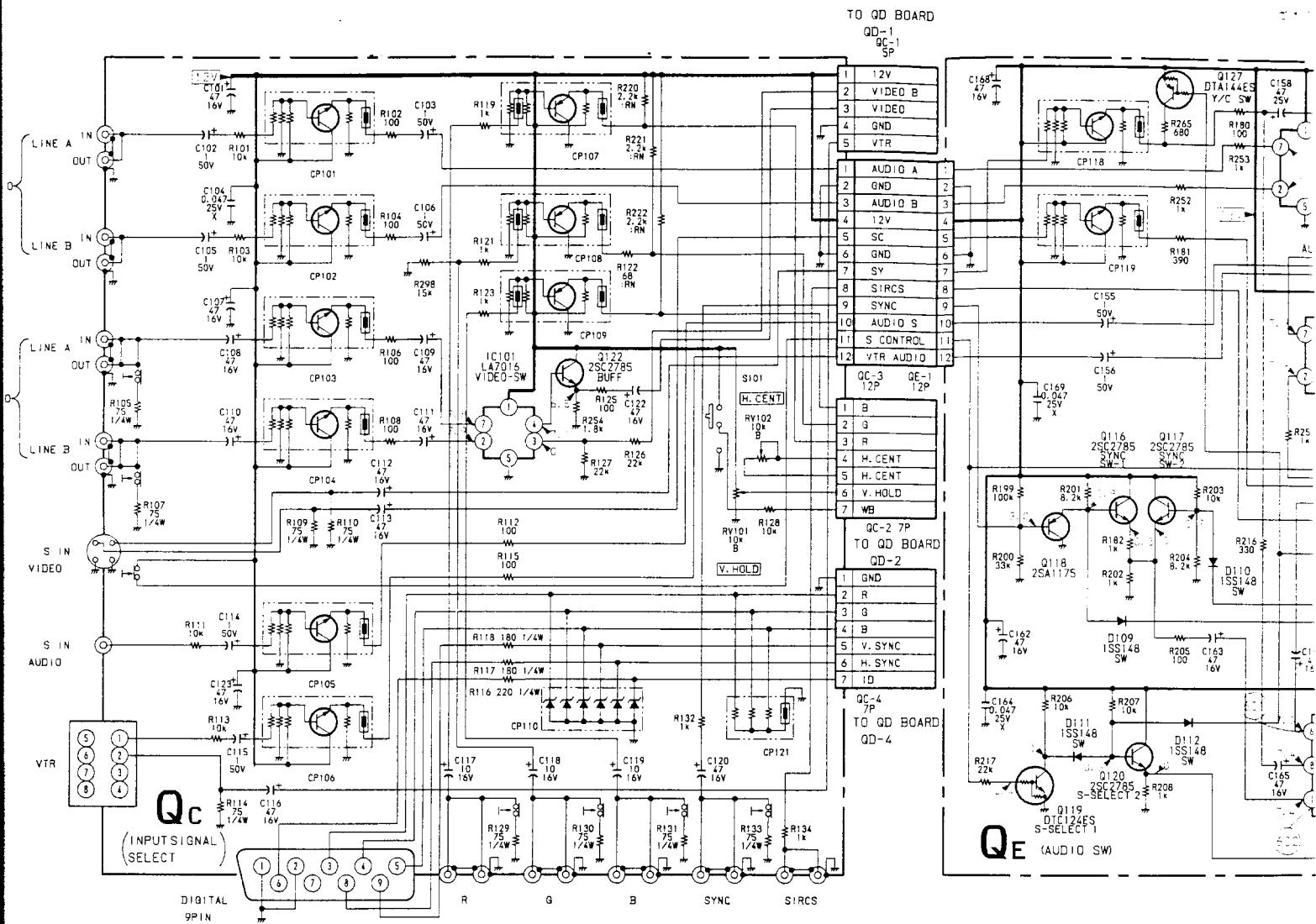
15

(QC, QD, QE Board: PVM-1442QM)

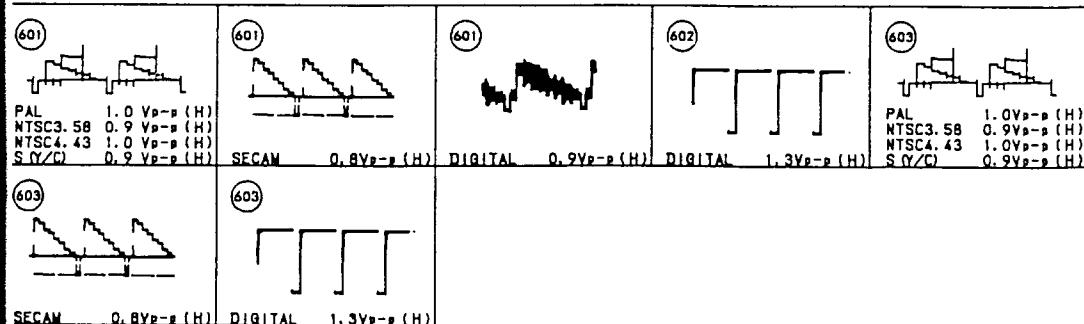
**QB BOARD WAVEFORM****QE BOARD WAVEFORM**

14 15 16 17 18 19 20 21 22

QD, QE Board: PVM-1442QM



QE BOARD WAVEFORM



QD BOARD

IC-Nr.	INPUT-NC	PA1	SECAM	NTSC
(1)		5.0	5.0	5.0
(2)		4.5	4.5	4.5
(3)		0	0	0
IC104		0.8	0.8	0.8
(4)		4	4	4
(5)		5.0	5.0	5.0
(6)		2.4	2.4	2.4
(7)		0	0	0
(8)		0	0	0
IC105		0.5	0.5	0.5
(9)		0	0	0
IC107		0.2	0.3	0.5
(10)		0	0	0
IC108		1.5	1.5	1.5
(11)		0	0	0
IC109		0.7	0.7	0.7
(12)		0	0	0
IC110		0.7	0.7	0.7
(13)		0	0	0
IC111		0.5	0.5	0.5
(14)		0	0	0
IC112		0.5	0.5	0.5
(15)		0	0	0
IC113		0.5	0.5	0.5
(16)		0	0	0
IC114		0.5	0.5	0.5
(17)		0	0	0
IC115		0.5	0.5	0.5
(18)		0	0	0
IC116		0.5	0.5	0.5
(19)		0	0	0
IC117		0.5	0.5	0.5
(20)		0	0	0
IC118		0.5	0.5	0.5
(21)		0	0	0
IC119		0.5	0.5	0.5
(22)		0	0	0
IC120		0.5	0.5	0.5
(23)		0	0	0
IC121		0.5	0.5	0.5
(24)		0	0	0
IC122		0.5	0.5	0.5
(25)		0	0	0
IC123		0.5	0.5	0.5
(26)		0	0	0
IC124		0.5	0.5	0.5
(27)		0	0	0
IC125		0.5	0.5	0.5
(28)		0	0	0
IC126		0.5	0.5	0.5
(29)		0	0	0
IC127		0.5	0.5	0.5
(30)		0	0	0
IC128		0.5	0.5	0.5
(31)		0	0	0
IC129		0.5	0.5	0.5
(32)		0	0	0
IC130		0.5	0.5	0.5
(33)		0	0	0
IC131		0.5	0.5	0.5
(34)		0	0	0
IC132		0.5	0.5	0.5
(35)		0	0	0
IC133		0.5	0.5	0.5
(36)		0	0	0
IC134		0.5	0.5	0.5
(37)		0	0	0

21

22

23

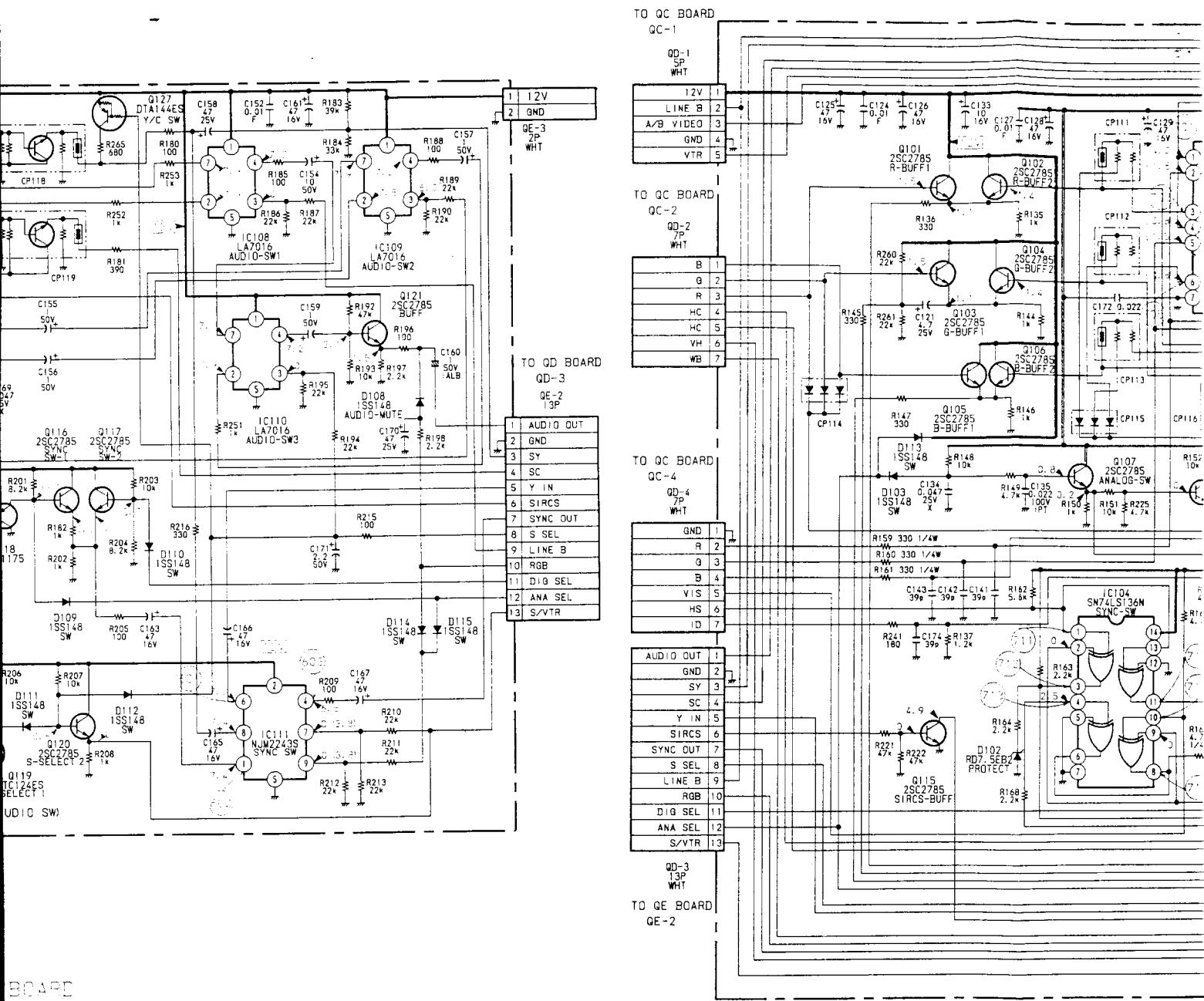
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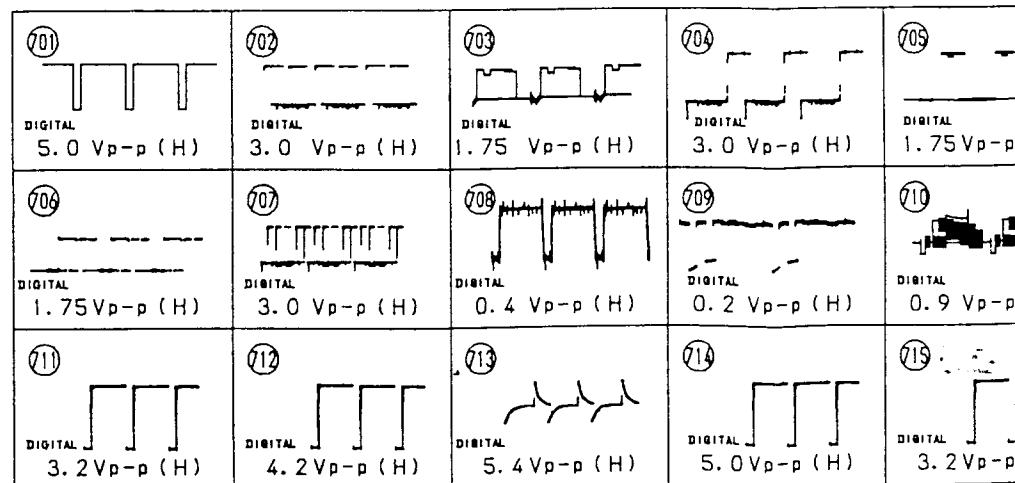


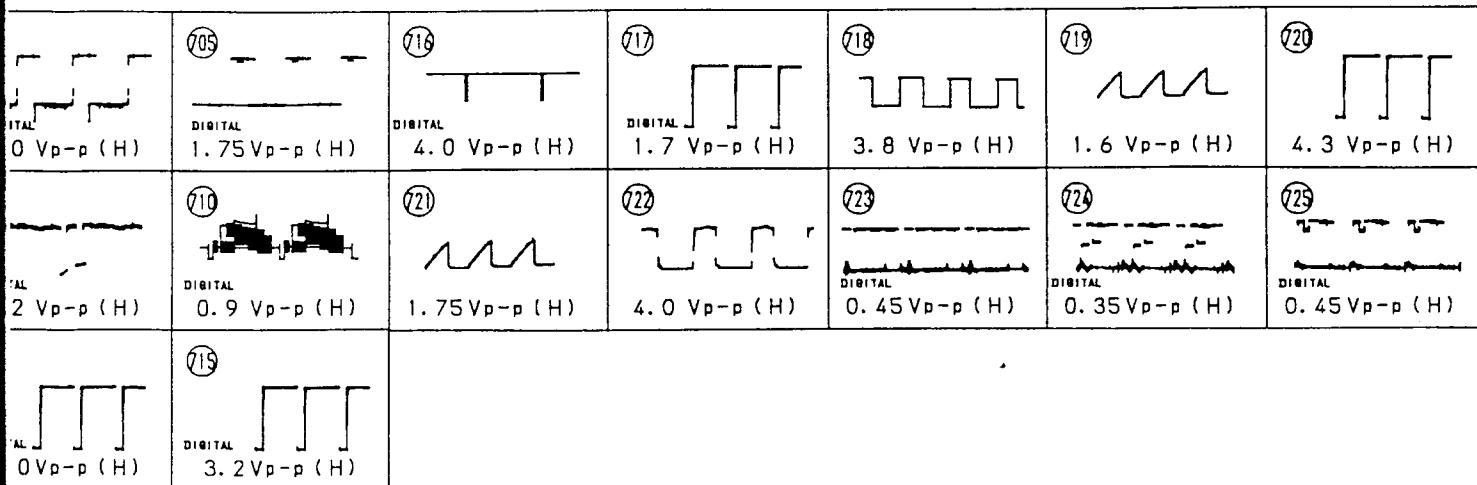
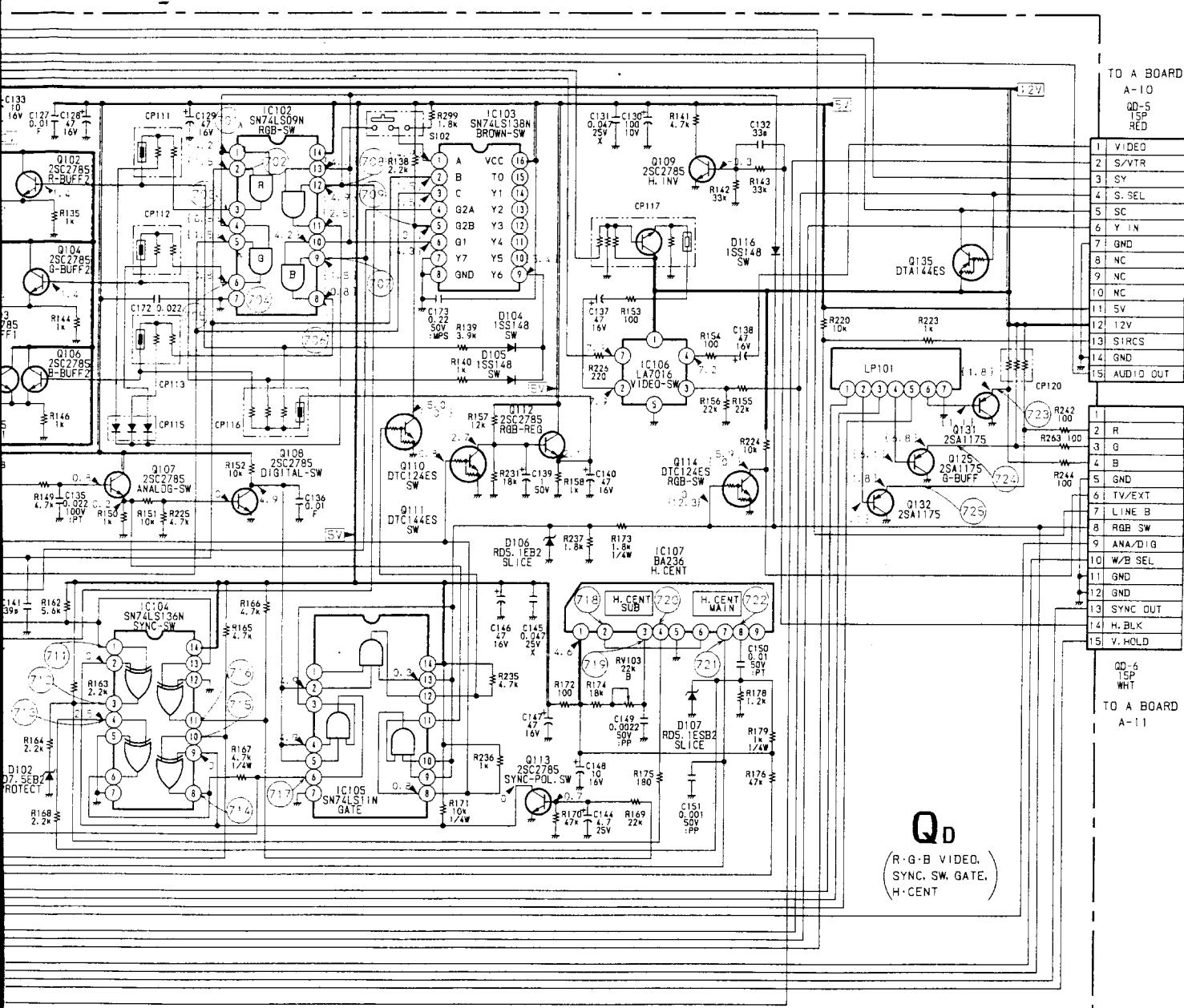
BOARD

PINNO.	PAL	SECAM	NTSC	NTSC	S-Y DEG
(1)	5.0	5.0	5.0	4.43	3.5
(2)	4.5	4.5	4.5	4.43	4.2
(3)	0	0	0	0	4.5
(4)	0.9	0.6	3.2	3.3	3.5
(5)	4.1	4.1	4.1	4.1	3.9
(6)	5.1	5.0	3.5	3.5	3.5
(7)	3.4	3.5	0.5	0.5	4.8
(8)	0	0	0	0	5.0
(9)	3.5	3.5	0.5	0.5	4.8
(10)	0	0	0	0	4.3
(11)	3	3	5.3	0	3
(12)	0	0	0	0	1.8
(13)	0.3	0.5	0.3	0.3	0.7
(14)	4.5	4.5	4.5	4.5	4.2
(15)	0	0	0	0	3.5
(16)	0	0	0	0	3.5

Q-NUM.	PAL	SECAM	NTSC	NTSC	S-VIDEO	DIGITAL
(1)	5.0	5.0	1.5	1.5	1.5	1.8
(2)	4.5	4.5	0.9	0.9	0.9	1.1
(3)	0	0	1.4	1.4	1.4	1.8
(4)	3.2	3.2	1.0	1.0	1.0	1.8
(5)	0	0	0.7	0.7	0.7	1.2
(6)	0	0	0.7	0.7	0.7	1.2
(7)	0	0	0.7	0.7	0.7	1.2
(8)	0	0	0.7	0.7	0.7	1.2

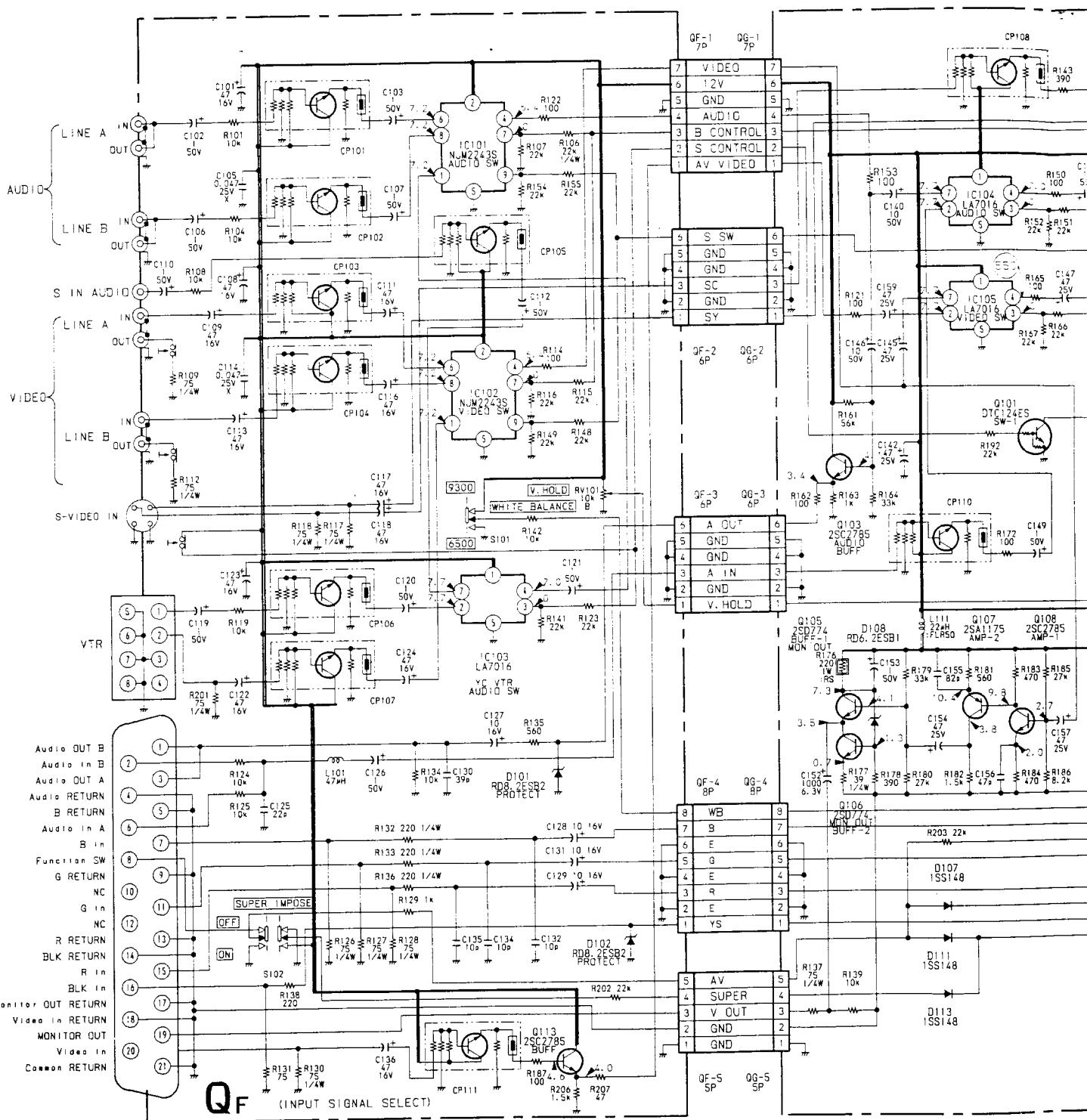
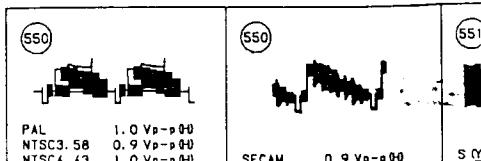
QD BOARD WAVEFORM





1 2 3 4 5 6 7 8

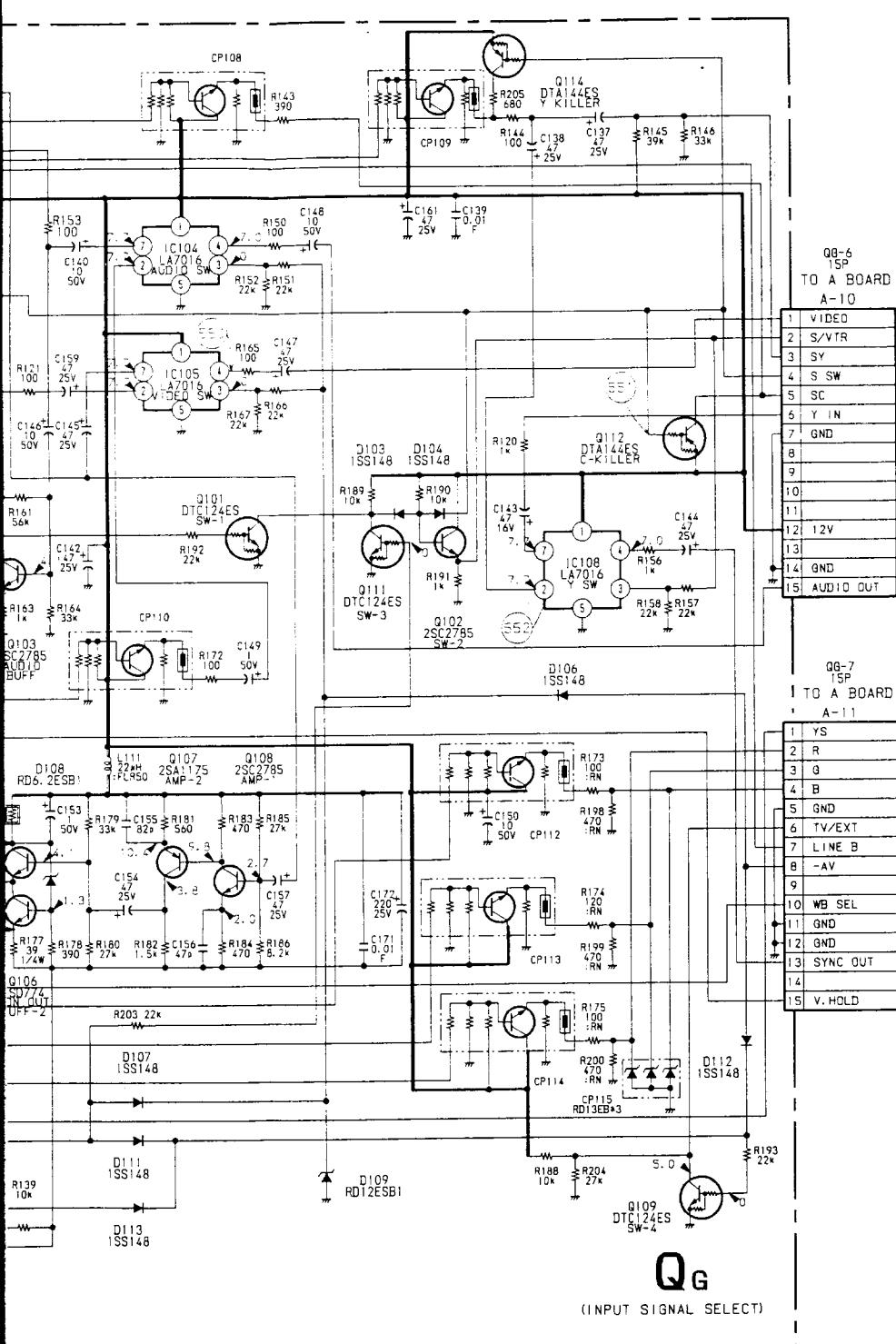
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**QG BOARD WAVEFORM**

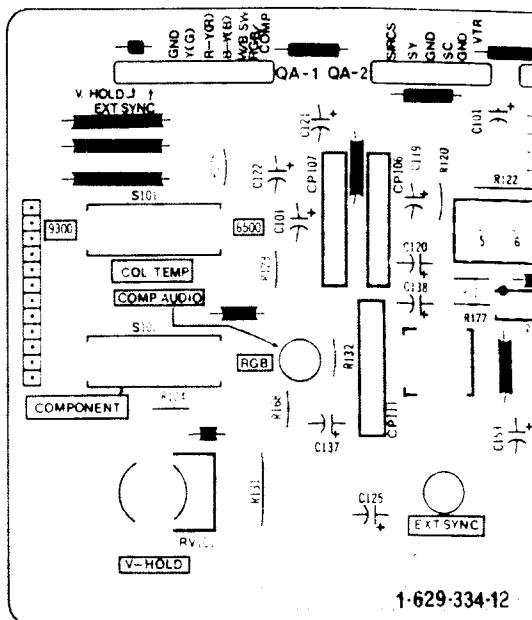
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7 8 9 10 11

QA

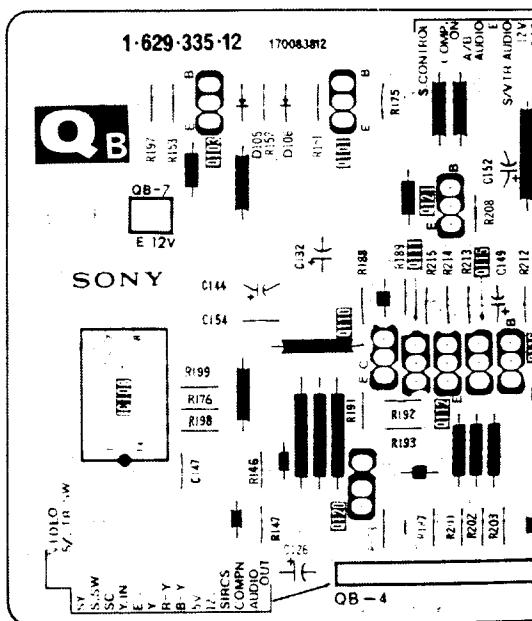


— QA Board — (PVM-1444QM)



1-629-334-12

— QB Board — (PVM-1444QM)



1-629-335-12

170083812

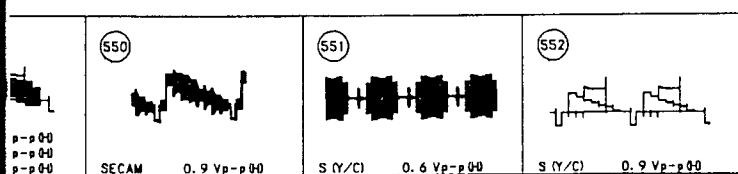
Q B

SONY

QB-7

QB-4

WAVEFORM



QA [INPUT SIGNAL SELECT]

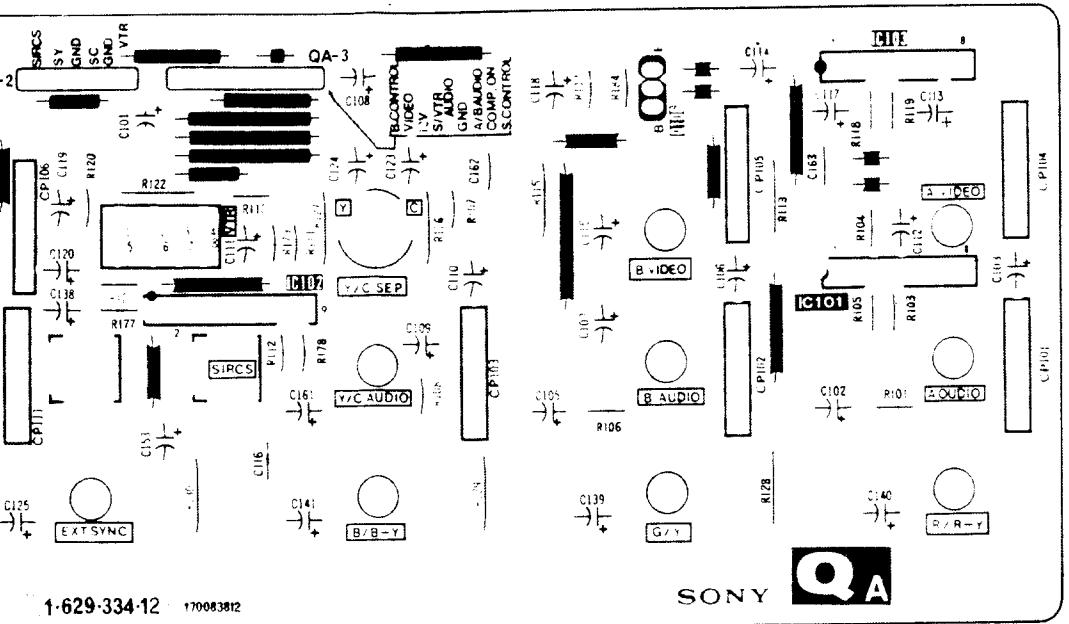
QB [INPUT SIGNAL SELECT,
SYSTEM SW]

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

QE [AUDIO SW]

Q

- QC Board - (PVM-1442QM)

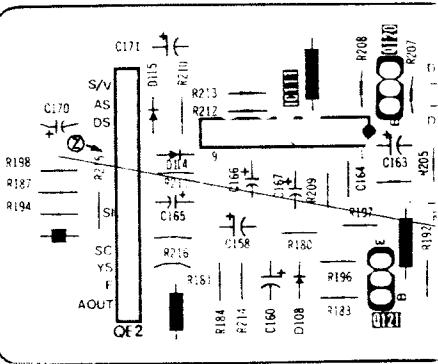


1-629-334-12 17003812

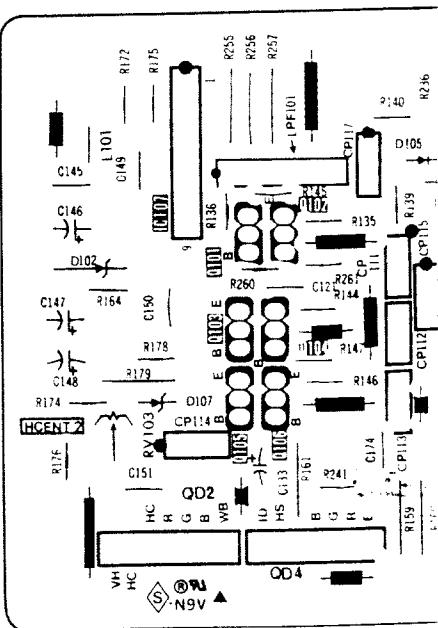
SONY

QA

- QE Board - (PVM-1442QM)



- QD Board - (PVM-1442QM)



PVM-1440QM/1442QM/1444QM

PVM-1440QM/1442QM/1444QM

C SW

QE

AUDIO SW

Qc

[INPUT SIGNAL SELECT]

QF

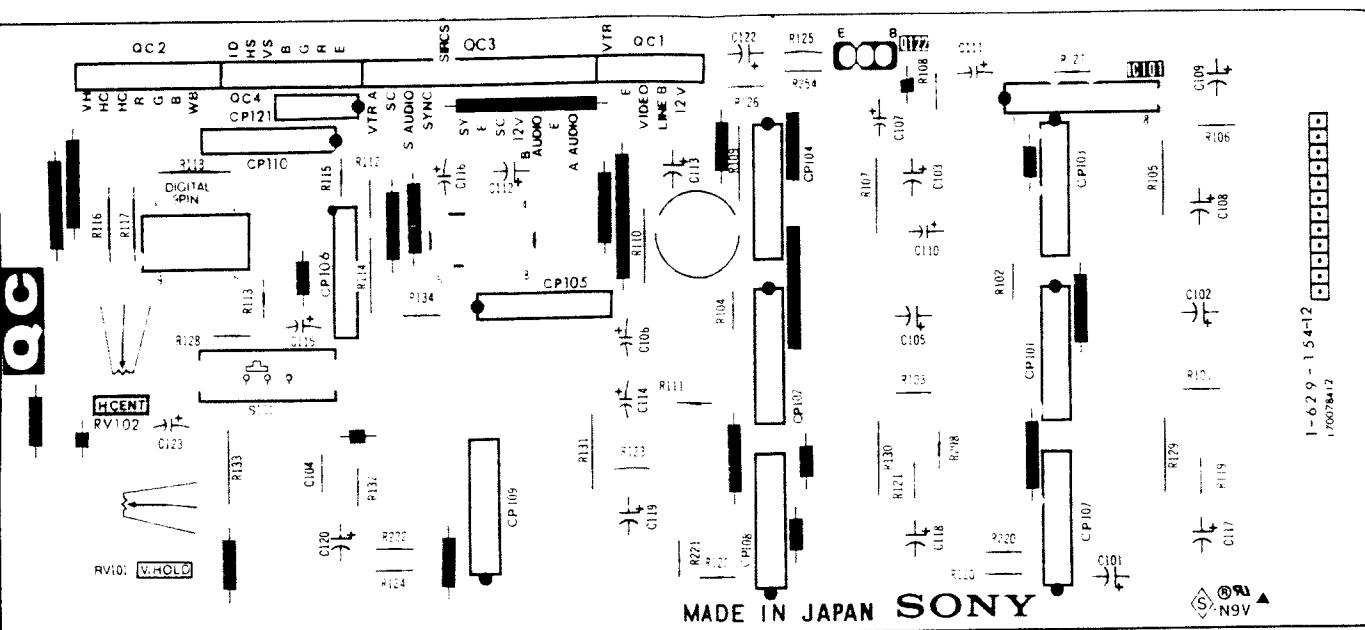
[INPUT SIGNAL SELECT]

QG

[INPUT SIGNAL SELEC]

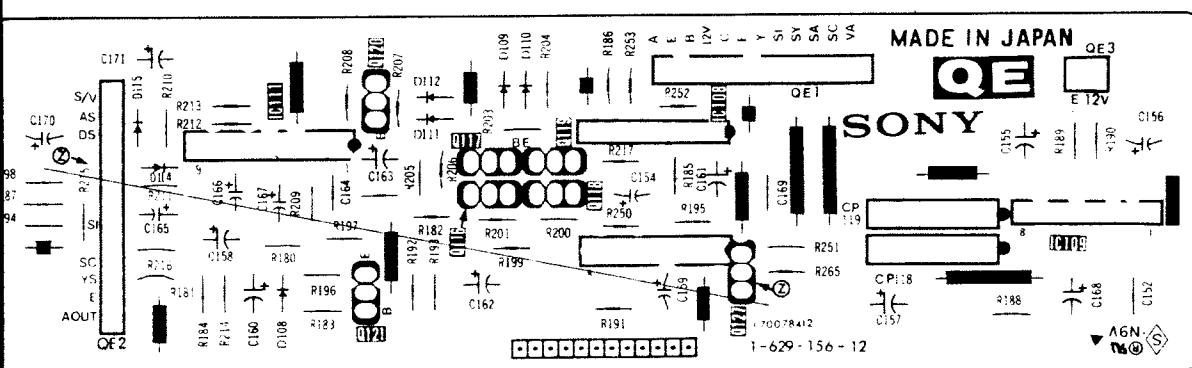
- QC Board - (PVM-1442QM)

- QF Board

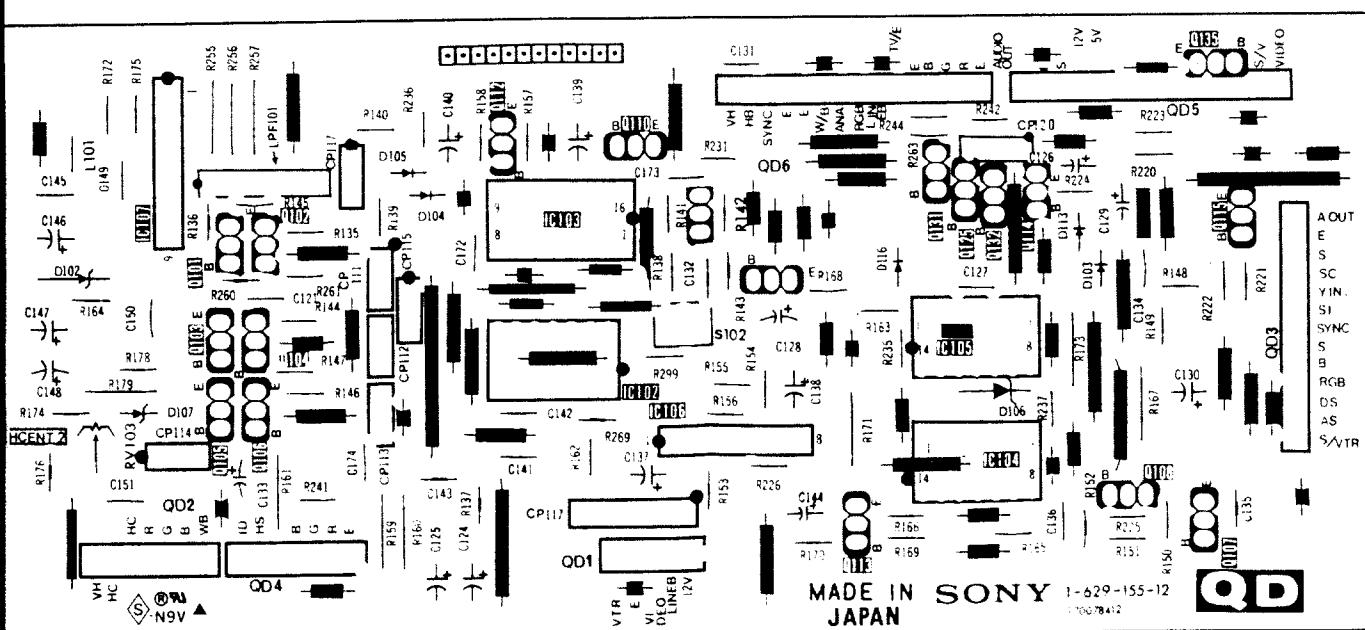


QE Board – (PVM-1442QM)

- QG Board

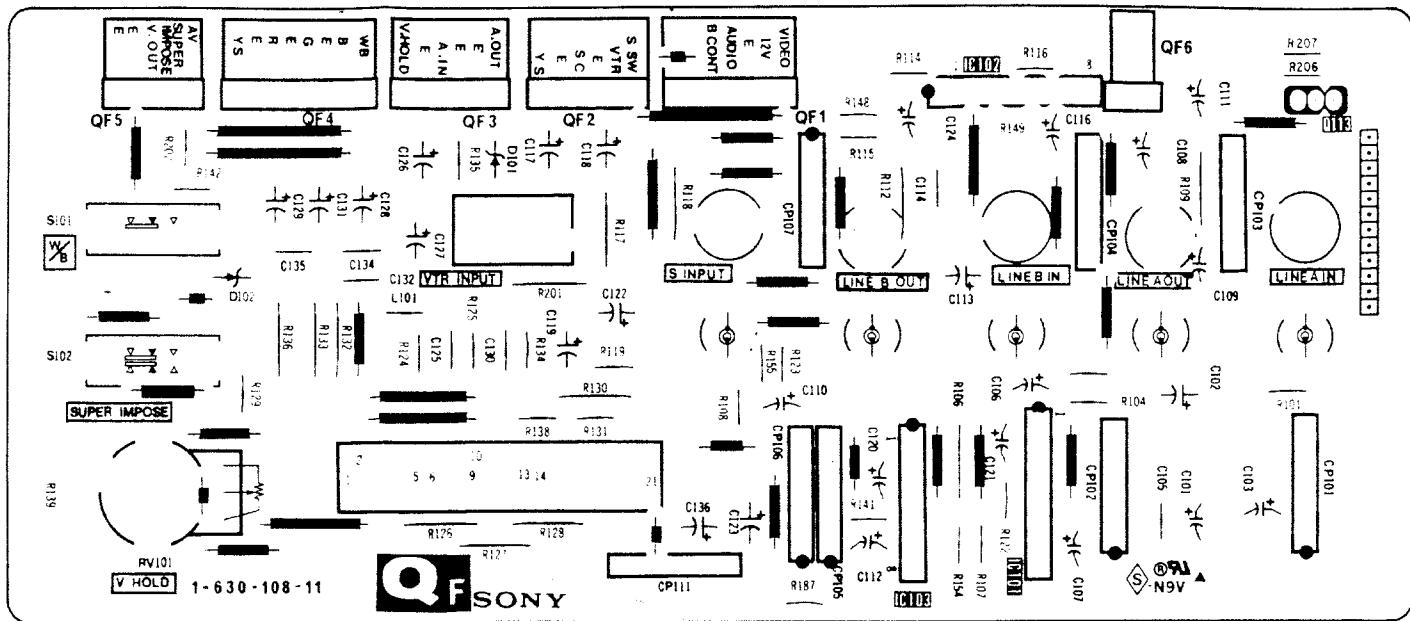


QD Board – (PVM-1442QM)

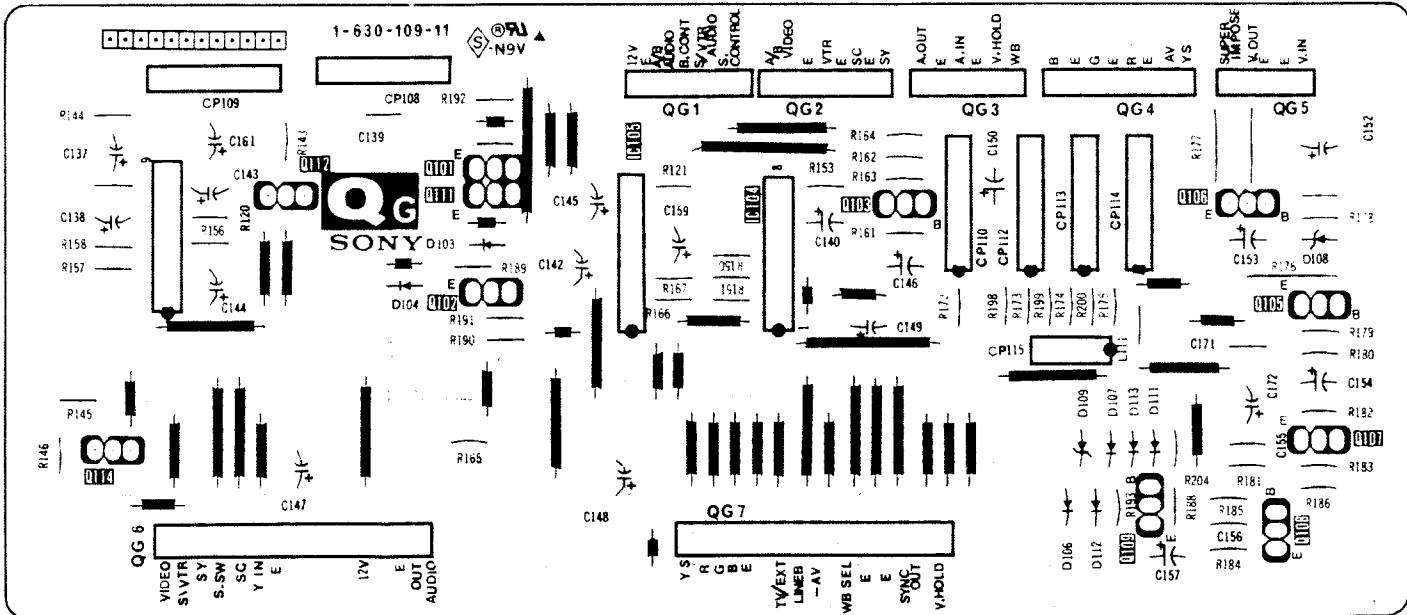


[INPUT SIGNAL SELECT]

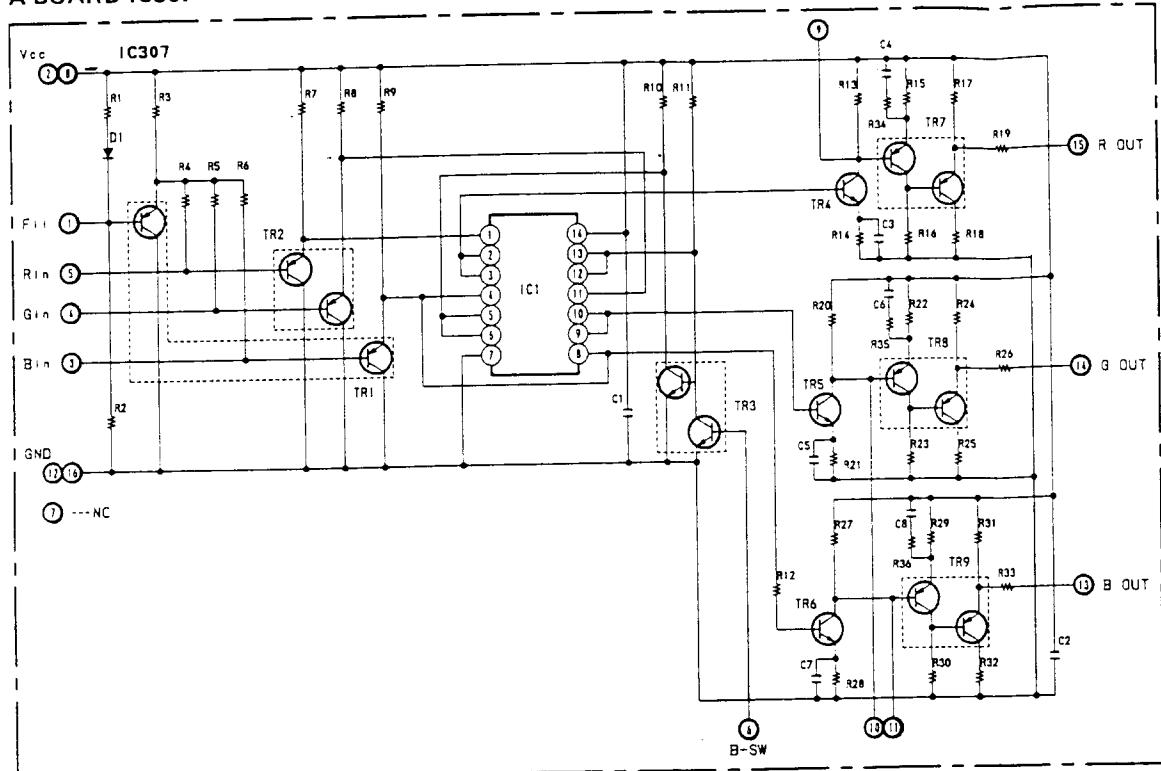
— QF Board — (PVM-1440QM)



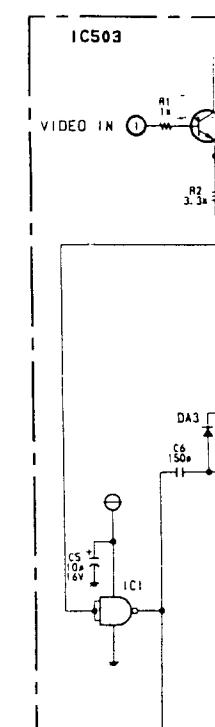
— QG Board — (PVM-1440QM)



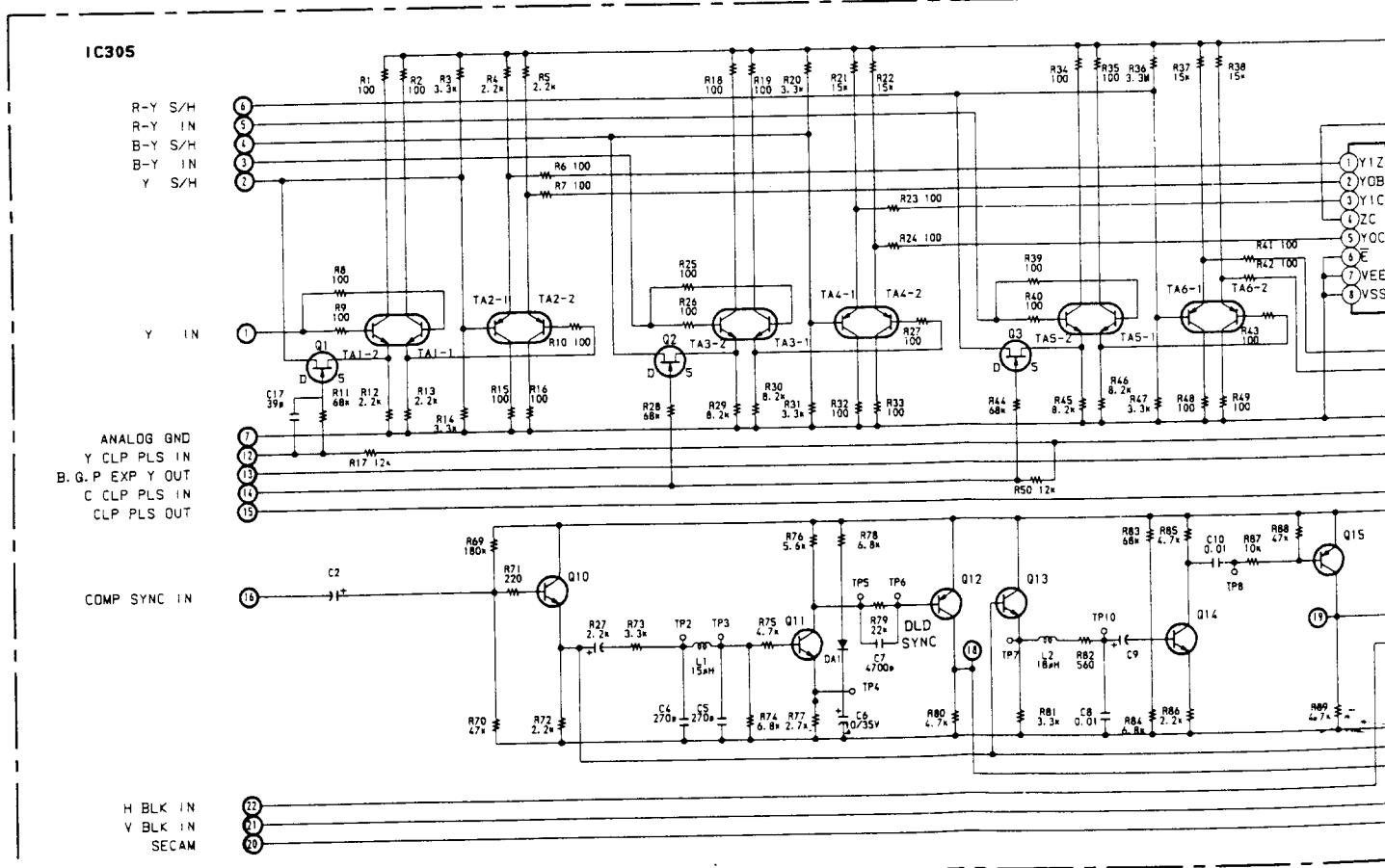
A BOARD IC307



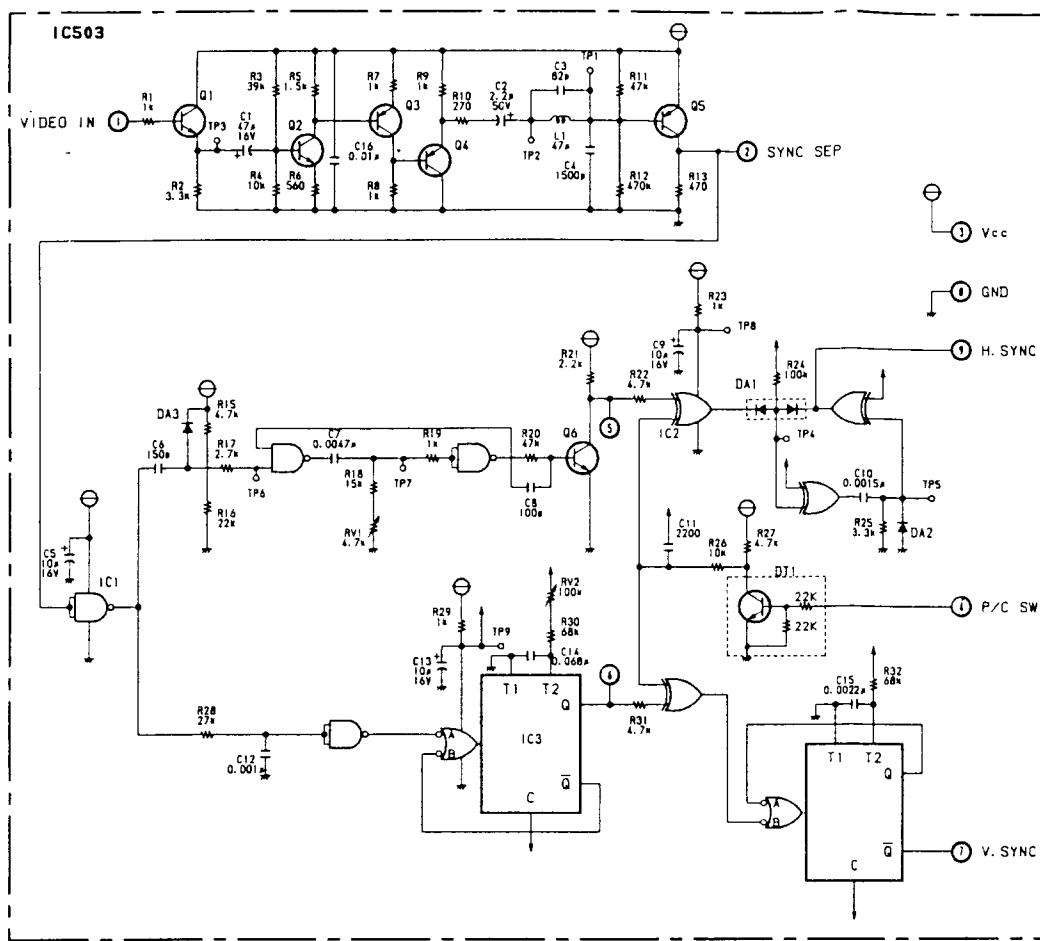
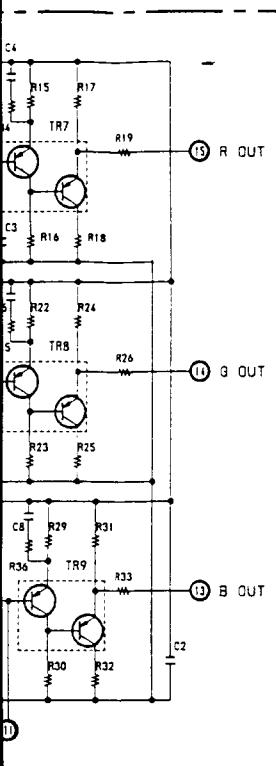
A BOARD IC503



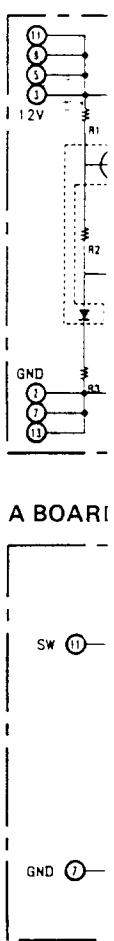
A BOARD IC 305



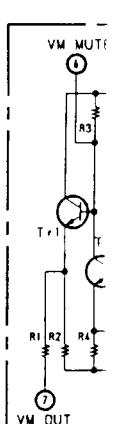
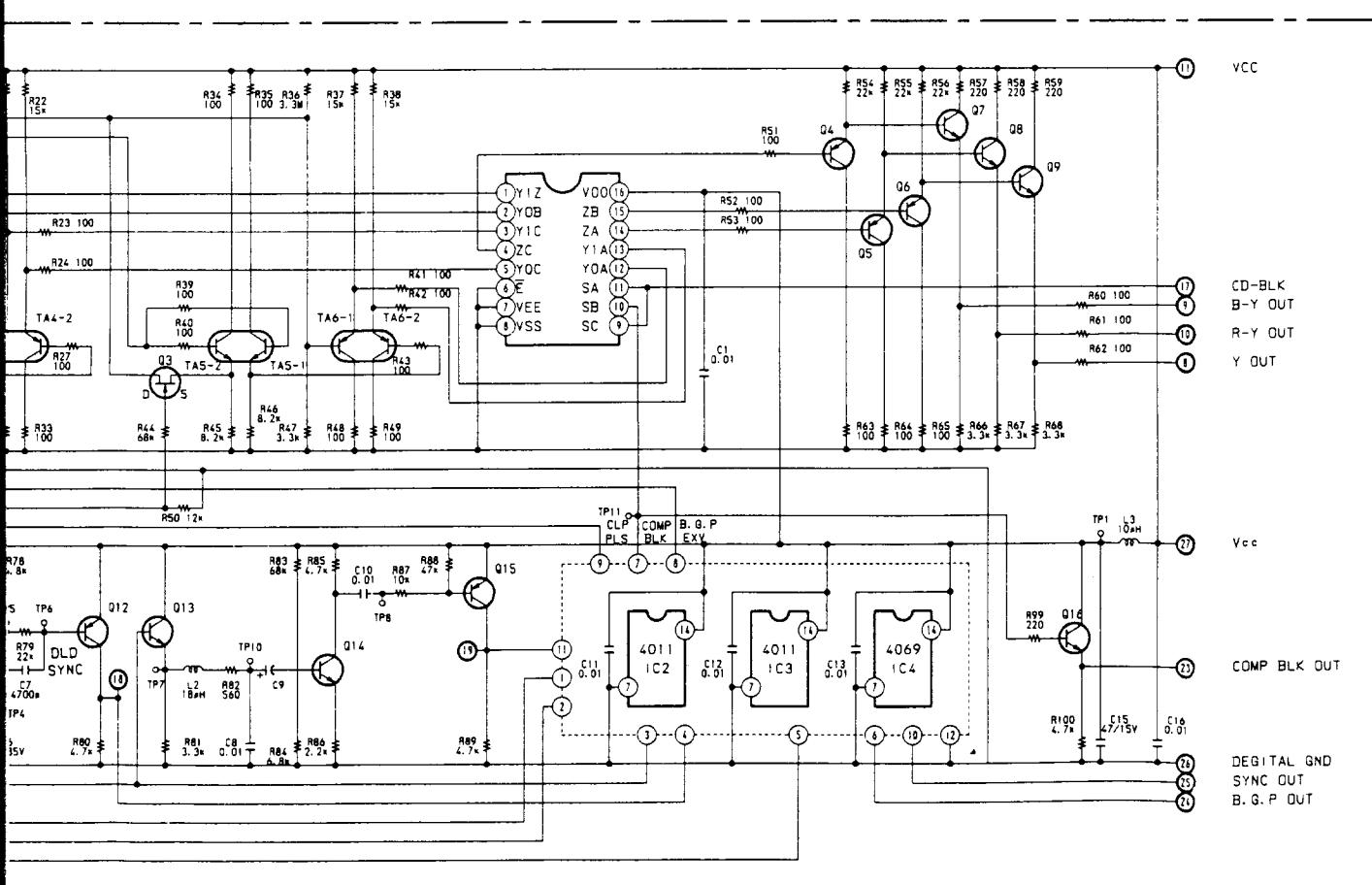
A BOARD IC503



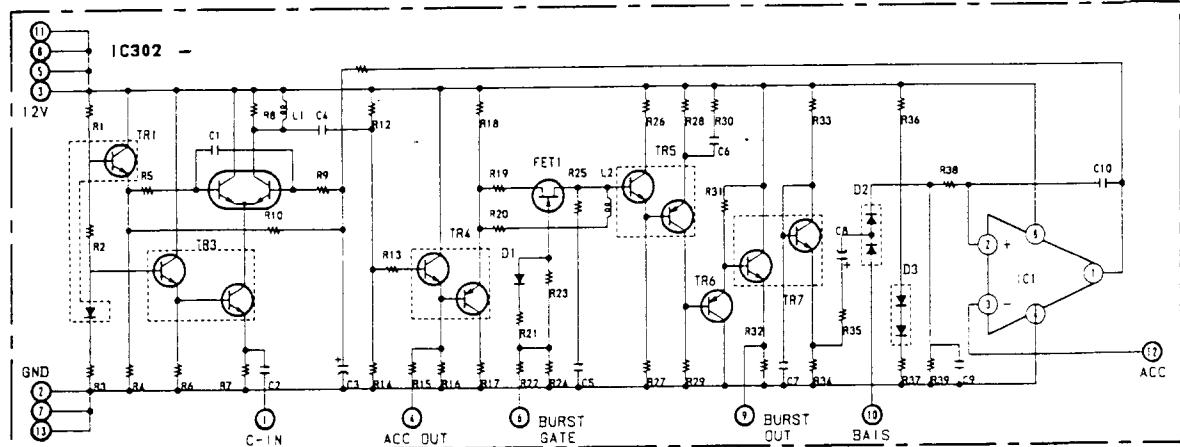
A BOARD



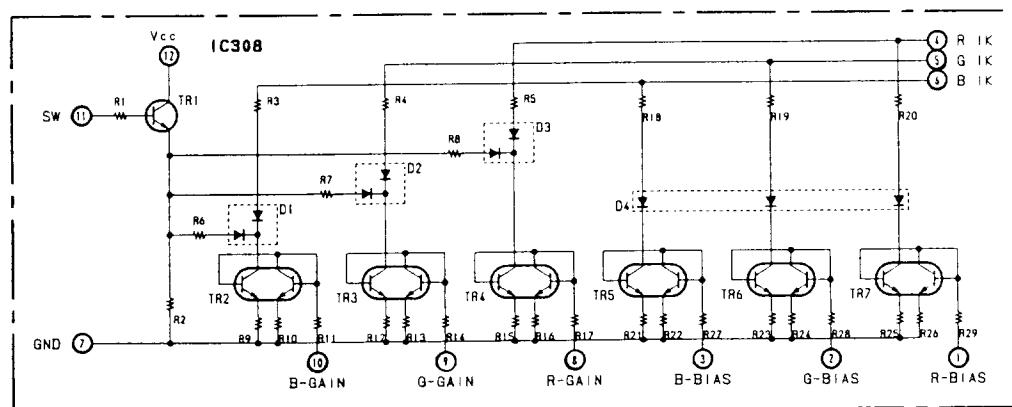
A BOARD



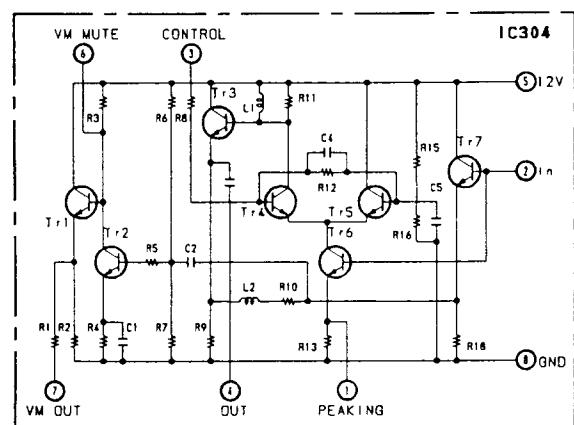
A BOARD IC302



A BOARD IC308

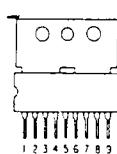


A BOARD IC304

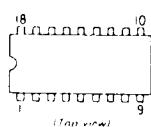


6-6. SEMICONDUCTORS

AN5265



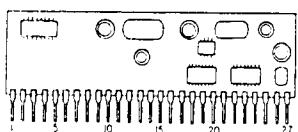
AN5613



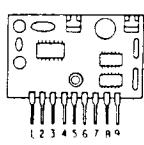
BA236



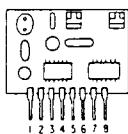
BX-7573



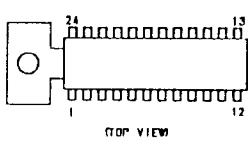
BX-7574



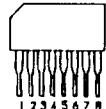
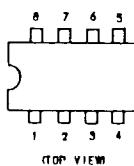
BX-7595



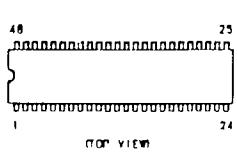
CX-175



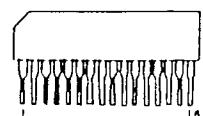
CX20125

CX-23025
IR9431
LA7016
UPC358C
UPC4558C

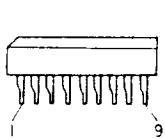
CXA1024S



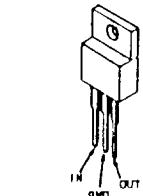
LA7061



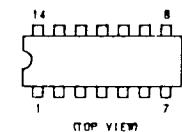
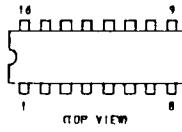
NJM2243S



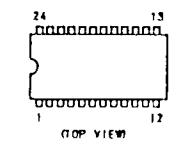
NJM7812B



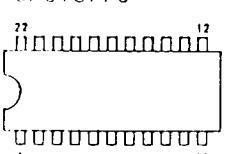
PC111S

SN74LS09N
SN74LS11N
SN74LS136N
TC4011BP
TC4066BP
UPC1394CSN74LS138N
TC4052BP
TC4053BP
TC4538BP

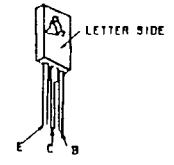
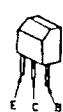
TA7193P



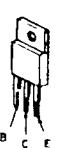
UPC1377C

DTA124ES-TP
DTA144ES
DTC124ES-TP
DIC144ES-TP2SA1091-R
2SC1890A-ETZ

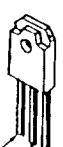
2SC2551-R

2SA1175TP-F
2SA1175TP-HFE
2SC2785TP-F
2SC2785TP-HFE2SA1220A-P
2SA1220A-Q
2SC2611
2SC2688-K
2SC2690A-QLETTER SIDE
E C BERB11-06
ERD28-08S
RD6. 8EB2
RGP10D
RGP15D
ISS832SC2958-L
2SD773-T-4
2SD774-T-3

2SD1134-C



2SD1397-CA



2SK105A-40



DAN209S-TP



RD5. 1ES-

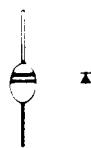
RD5. 6ES-
RD6. 2ES-
RD6. 8ES-
RD8. 2ES-
RD10ES-T
RD10ES-T
RD13ES-T
RD15ES-T
RD16ES-T
RD39ES-TRD5. 6EB2
RD6. 8EB2
RGP10D
RGP15D
ISS83

CATHODE

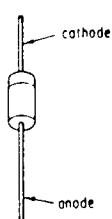
RD-6.8EB-
RD16EB3T
RD24EB27
1OE2-TA2E

M

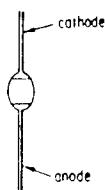
PVM-1440QM/1442QM/1444QM

ERC26-15S
V11N

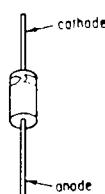
GP08D



RD4. 3ES-T1L2

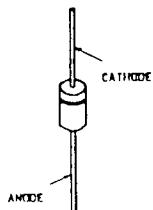


RD5. 6EBZ75TN

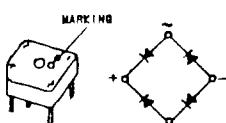


RD5.1ES-2V
RD5. 6ES-T1L1
RD6. 2ES-T1B2
RD6. 8ES-T1B2
RD8. 2ES-T1B2
RD10ES-T1B1
RD10ES-T1L3
RD13ES-T1B3
RD15ES-T1B2
RD16ES-T1B3
RD39ES-T1B4

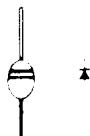
RD110EBTN
RH-1Z
RU2AM
S1B01-06
S1B01-04TP1



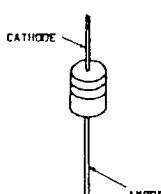
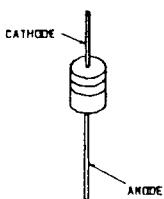
S3WB60Z



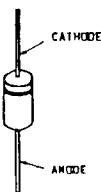
V19E



ISS148
ISS148-TP7



RD-6.8EB-2
RD16EB3TN
RD24EB27TN
10E2-TA2B



SECTION 7

EXPLODED VIEWS

NOTE:

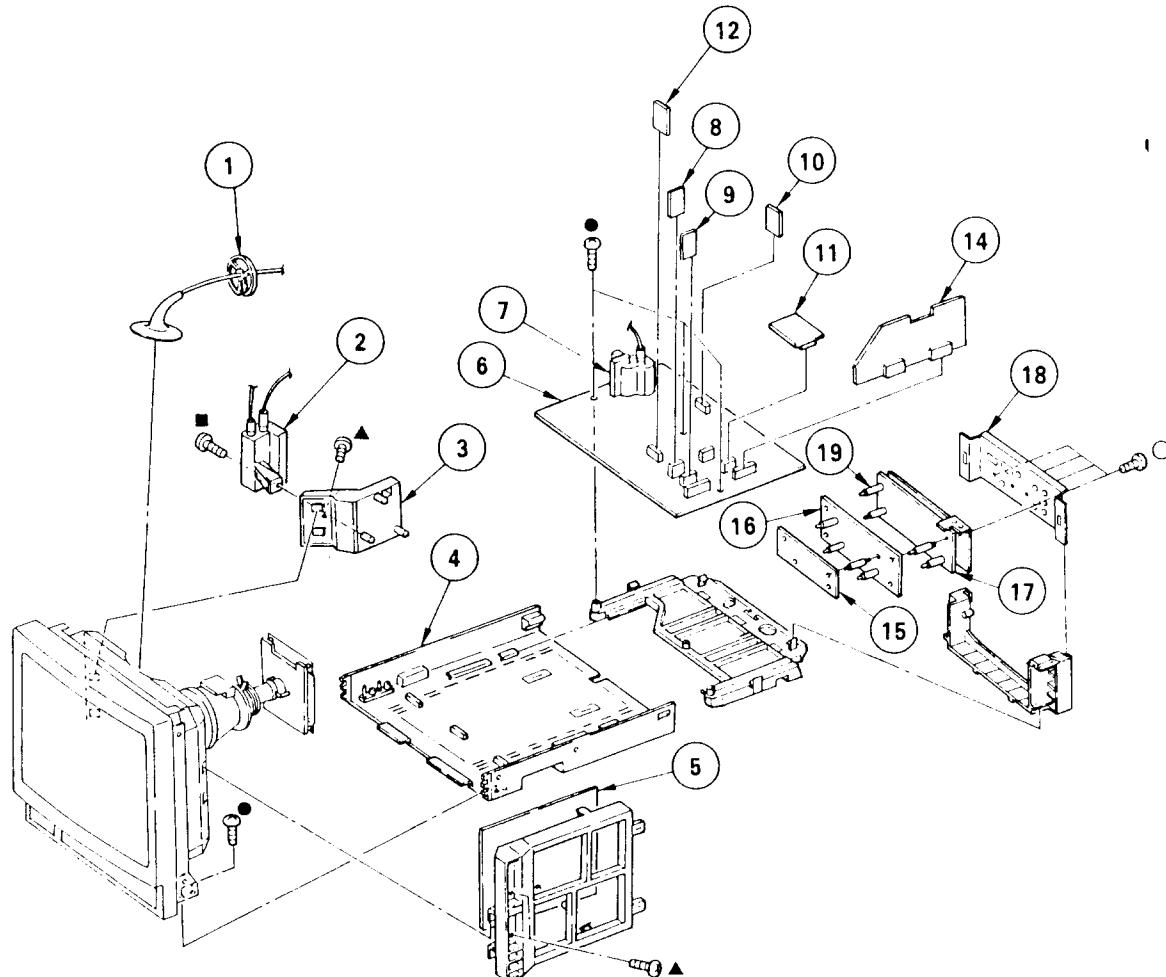
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a callout number in the remark column.

- 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 Δ are critical for safety.
Replace only with part number specified.

7-1. CHASSIS

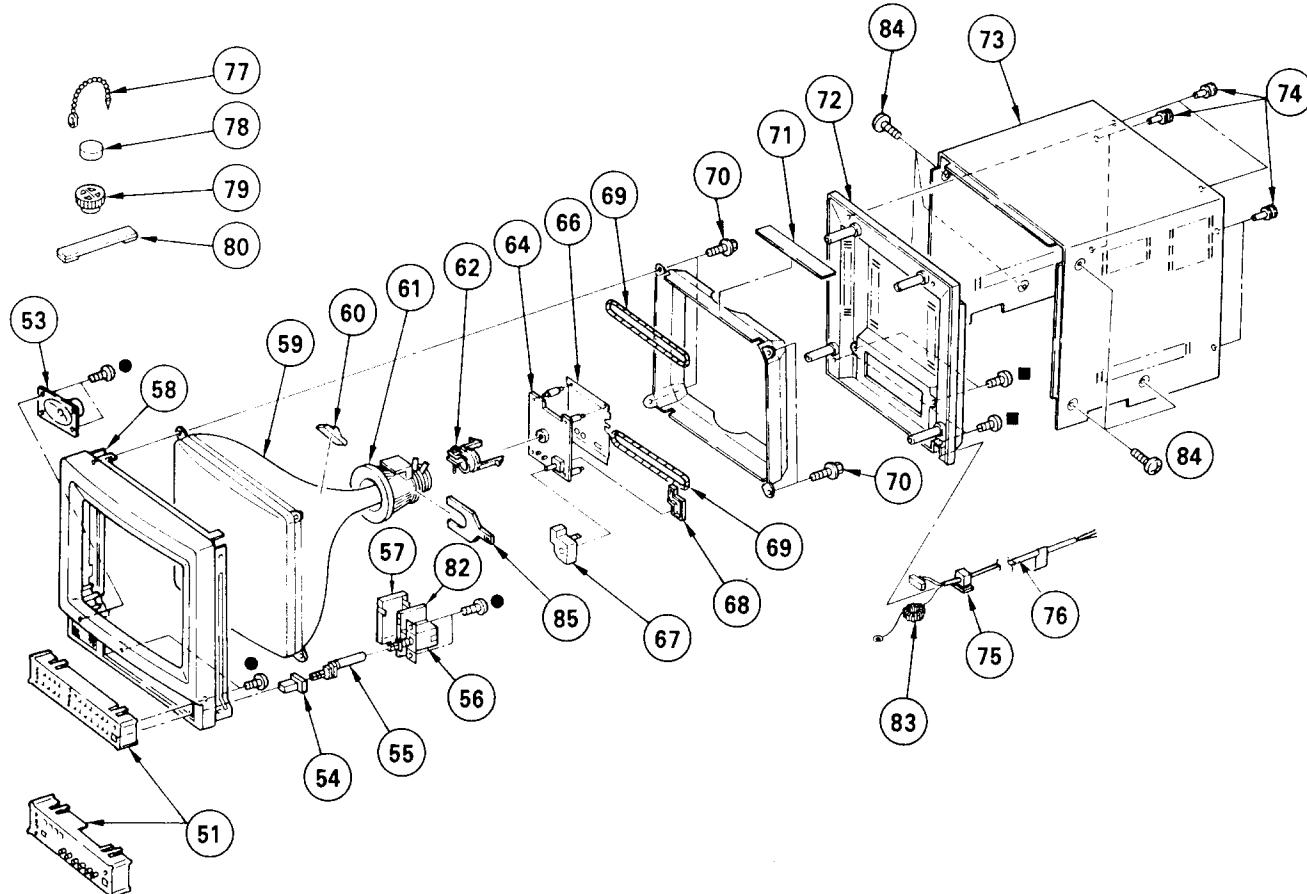
● : BVTP3 x 12	7-685-648-79
■ : BVTP4 x 16	7-685-663-79
▲ : BVTT4 x 8	7-682-561-04
○ : BVTP3 x 8	7-685-646-79



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
1	A-3-704-372-01	HOLDER, HV CABLE		14	*A-1135-564-A	BA BOARD, COMPLETE (PVM-1440QM ONLY)	
2	A-1-237-614-12	RESISTOR ASSY, HIGH-VOLTAGE			*A-1135-573-A	BA BOARD, COMPLETE (PVM-1442QM/1444QM ONLY)	
3	*4-391-842-01	BRACKET, HVR		15	*A-1270-249-A	QE BOARD, COMPLETE (PVM-1442QM ONLY)	
4	X-4391-805-1	CABINET ASSY, BOTTOM		16	*A-1270-267-A	QG BOARD, COMPLETE (PVM-1440QM ONLY)	
5	*A-1245-456-A	FE BOARD, COMPLETE			*A-1270-248-A	QB BOARD, COMPLETE (PVM-1442QM ONLY)	
6	*A-1296-520-A	A BOARD, COMPLETE			*A-1270-246-A	QB BOARD, COMPLETE (PVM-1444QM ONLY)	
7	Δ .1-439-395-12	TRANSFORMER ASSY, FLYBACK			*A-1270-266-A	QF BOARD, COMPLETE (PVM-1440QM ONLY)	
8	*1-629-149-11	W BOARD			*A-1270-247-A	QC BOARD, COMPLETE (PVM-1442QM ONLY)	
9	*1-629-151-11	XA BOARD			*A-1270-245-A	QA BOARD, COMPLETE (PVM-1444QM ONLY)	
10	*1-629-150-11	Y BOARD		18	4-391-843-32	PLATE, TERMINAL (PVM-1440QM ONLY)	
11	*1-629-148-11	V BOARD			4-391-843-12	PLATE, TERMINAL (PVM-1442QM ONLY)	
12	*1-629-219-11	U BOARD (PVM-1440QM ONLY)			4-391-843-02	PLATE, TERMINAL (PVM-1444QM ONLY)	
				19	*3-682-419-01	HOLDER, P.C.B	

7-2. PICTURE TUBE

- : BVTP3 x 12 7-685-648-79
- : BVTP4 x 16 7-685-663-79



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
51	1-466-113-11	CONTROL UNIT (PVM-1440QM ONLY)		66	*4-391-835-01	PLATE (C), SHIELD (PVM-1442QM ONLY)	
	1-466-076-11	CONTROL UNIT (PVM-1442QM ONLY)		67	*4-374-912-01	COVER (MAIN), CV VOL	
	1-466-075-11	CONTROL UNIT (PVM-1444QM ONLY)		68	*4-374-913-01	COVER (REAR LID), CV.VOL	
53	1-544-063-11	SPEAKER		69	▲ 1-426-145-13	COIL, DEGAUSSING	
54	4-374-839-11	BUTTON (A)		70	4-307-249-00	SCREW (5), TAPPING	
55	4-391-824-01	JOINT		71	4-391-833-01	CLOTH, PROTECTION	
56	▲ 1-554-967-12	SWITCH, PUSH (AC POWER) (1 KEY)		72	4-391-839-01	COVER, REAR	
57	*4-391-820-01	COVER, AC SWITCH		73	X-4391-810-1	COVER ASSY, TOP	
58	X-4391-804-1	BEZEL ASSY (PVM-1442QM/44QM ONLY)		74	4-391-825-01	RIVET, NYLON	
	X-4391-804-2	BEZEL ASSY (PVM-1440QM ONLY)		75	▲ *4-364-745-01	BUSHING, AC CORD	
59	▲ 8-736-254-05	PICTURE TUBE (A34JHS10X) (PVM-1440QM ONLY)		76	▲ 1-574-389-12	CORD, POWER	
	▲ 8-734-621-05	PICTURE TUBE (M34KBE21X) (PVM-1442QM/1444QM ONLY)		77	4-308-870-00	CLIP, LEAD WIRE	
60	3-703-961-01	SPACER, DY		78	1-452-032-00	MAGNET, DISK; 10MMΦ	
61	▲ 1-451-329-11	DEFLECTION YOKE (Y14FZA)		79	1-452-094-00	MAGNET, ROTATABLE DISK; 15MMΦ	
62	*4-382-050-01	BAND, C PC BOARD		80	X-4309-608-0	PERMALLOY ASSY, CONVERGENCE	
64	*▲ 1-1330-986-A	C BOARD, COMPLETE		82	*1-629-153-11	J BOARD	
				83	1-543-604-11	CORE, RING	
				84	4-847-802-11	SCREW (OS), CASE, CLAW	
				85	1-452-277-00	MAGNET BMC	

SECTION 8

ELECTRICAL PARTS LIST

BA**NOTE:**

The components identified by shading and mark Δ 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.

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

CAPACITORS	COILS
• MF : μ F, PF : $\mu\mu$ F	• MMH : mH, UH : μ H

RESISTORS

- All resistors are in ohms
- F : nonflammable

* * : Selected to yield optimum performance.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
	*A-1135-573-A	BA BOARD, COMPLETE (PVM-1442QM / PVM-1444QM ONLY)		C269	1-102-978-00	CERAMIC	220PF 5% 50V
	*A-1135-564-A	BA BOARD, COMPLETE (PVM-1440QM ONLY)		C271	1-101-004-00	CERAMIC	0.01MF 50V
		*****		C272	1-101-002-00	CERAMIC	0.0022MF 50V
		*****		C273	1-101-002-00	CERAMIC	0.0022MF 50V
				C280	1-108-624-11	MYLAR	0.0068MF 10% 100V
				C281	1-124-478-11	ELECT	100MF 20% 25V
				C292	1-101-004-00	CERAMIC	0.01MF 50V
BA1	*1-565-491-11	CONNECTOR, BOARD TO BOARD 15P		C401	1-123-875-11	ELECT	10MF 20% 50V
BA2	*1-565-491-11	CONNECTOR, BOARD TO BOARD 15P		C402	1-101-888-00	CERAMIC	68PF 5% 50V
				C403	1-102-116-00	CERAMIC	680PF 10% 50V
				C404	1-136-161-00	FILM	0.047MF 5% 50V
				C405	1-102-074-00	CERAMIC	0.001MF 10% 50V
BPF243	1-236-363-11	FILTER, BAND PASS		C406	1-124-477-11	ELECT	47MF 20% 25V
BPF244	1-236-364-11	FILTER, BAND PASS		C407	1-101-890-00	CERAMIC	75PF 5% 50V
				C408	1-102-960-00	CERAMIC	27PF 5% 50V
				C409	1-136-165-00	FILM	0.1MF 5% 50V
				C410	1-136-165-00	FILM	0.1MF 5% 50V
C201	1-124-120-11	ELECT	220MF 20% 25V	C411	1-136-165-00	FILM	0.1MF 5% 50V
C202	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C412	1-102-129-00	CERAMIC	0.01MF 10% 50V
C203	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C413	1-124-499-11	ELECT	1MF 20% 50V
C207	1-124-477-11	ELECT	47MF 20% 25V	C414	1-136-173-00	FILM	0.47MF 5% 50V
C208	1-124-477-11	ELECT	47MF 20% 25V	C415	1-123-875-11	ELECT	10MF 20% 50V
C209	1-124-477-11	ELECT	47MF 20% 25V	C416	1-102-118-00	CERAMIC	0.0012MF 10% 50V
C210	1-124-477-11	ELECT	47MF 20% 25V	C417	1-124-477-11	ELECT	47MF 20% 25V
C211	1-124-477-11	ELECT	47MF 20% 25V	C418	1-124-499-11	ELECT	1MF 20% 50V
C212	1-124-477-11	ELECT	47MF 20% 25V	C419	1-124-478-11	ELECT	100MF 20% 25V
C213	1-124-477-11	ELECT	47MF 20% 25V	C420	1-136-165-00	FILM	0.1MF 5% 50V
C214	1-101-004-00	CERAMIC	0.01MF 50V	C421	1-102-960-00	CERAMIC	27PF 5% 50V
C221	1-124-902-00	ELECT	0.47MF 20% 50V	C422	1-136-165-00	FILM	0.1MF 5% 50V
C222	1-124-464-11	ELECT	0.22MF 20% 50V	C423	1-123-875-11	ELECT	10MF 20% 50V
C223	1-102-959-00	CERAMIC	22PF 5% 50V	C424	1-136-165-00	FILM	0.1MF 5% 50V
C224	1-101-888-00	CERAMIC	68PF 5% 50V	C425	1-101-361-00	CERAMIC	150PF 5% 50V
C230	1-124-120-11	ELECT	220MF 20% 25V	C426	1-101-890-00	CERAMIC	75PF 5% 50V
C240	1-101-004-00	CERAMIC	0.01MF 50V	C427	1-124-120-11	ELECT	220MF 20% 25V
C241	1-124-120-11	ELECT	220MF 20% 25V	C428	1-124-477-11	ELECT	47MF 20% 25V
C242	1-124-478-11	ELECT	100MF 20% 25V	C429	1-124-477-11	ELECT	47MF 20% 25V
C243	1-124-120-11	ELECT	220MF 20% 25V	C430	1-101-004-00	CERAMIC	0.01MF 50V
C245	1-101-004-00	CERAMIC	0.01MF 50V	C431	1-101-884-00	CERAMIC	56PF 5% 50V
C246	1-123-875-11	ELECT	10MF 20% 50V	C432	1-101-004-00	CERAMIC	0.01MF 50V
C247	1-101-004-00	CERAMIC	0.01MF 50V	C433	1-124-478-11	ELECT	100MF 20% 25V
C248	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C434	1-101-884-00	CERAMIC	56PF 5% 50V
C250	1-161-021-11	CERAMIC	0.047MF 10% 25V	C435	1-101-884-00	CERAMIC	56PF 5% 50V
C251	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C441	1-102-959-00	CERAMIC	22PF 5% 50V
C252	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C442	1-161-021-11	CERAMIC	0.047MF 10% 25V
C253	1-102-125-00	CERAMIC	0.0047MF 10% 50V				
C254	1-102-125-00	CERAMIC	0.0047MF 10% 50V				
C255	1-101-004-00	CERAMIC	0.01MF 50V				
C265	1-102-978-00	CERAMIC	220PF 5% 50V	CFM201	1-464-880-11	FILTER BLOCK, COM (CFB-2)	
C266	1-101-003-00	CERAMIC	0.0047MF 50V				
C267	1-124-478-11	ELECT	100MF 20% 25V				
C268	1-101-003-00	CERAMIC	0.0047MF 50V				

<FILTER BLOCK>

BA

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<MODULE>							
CTR210	1-236-366-11	MODULE, TRAP		Q261	8-729-119-78	TRANSISTOR 2SC2785-HFE	
CTR211	1-236-365-11	MODULE, TRAP		Q262	8-729-119-78	TRANSISTOR 2SC2785-HFE	
PCM290	1-808-628-11	MODULE, PHASE PHM-1		Q263	8-729-119-78	TRANSISTOR 2SC2785-HFE	
SEP270	1-808-654-11	MODULE		Q264	8-729-119-76	TRANSISTOR 2SA1175-HFE	
				Q265	8-729-119-78	TRANSISTOR 2SC2785-HFE	
<DIODE>							
D210	8-719-911-19	DIODE ISS119		Q280	8-729-900-89	TRANSISTOR DTC144ES	
D211	8-719-911-19	DIODE ISS119		Q401	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D212	8-719-911-19	DIODE ISS119		Q402	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D240	8-719-110-16	DIODE RD10ES-B1		Q403	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D280	8-719-911-19	DIODE ISS119		Q404	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D401	8-719-911-19	DIODE ISS119		Q405	8-729-900-63	TRANSISTOR DTA124ES	
D402	8-719-911-19	DIODE ISS119		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	
<DELAY LINE>							
DL230	1-415-632-11	DELAY LINE, Y		Q410	8-729-119-78	TRANSISTOR 2SC2785-HFE	
				Q411	8-729-119-76	TRANSISTOR 2SA1175-HFE	
<RESISTOR>							
<IC>							
FPG280	8-749-920-73	IC BX7595		JW95	1-249-411-11	CARBON	330 5% 1/4W
IC201	8-759-800-81	IC LA7016		R201	1-249-435-11	CARBON	33K 5% 1/4W
IC210	8-759-240-53	IC TC4053BP		R202	1-249-435-11	CARBON	33K 5% 1/4W
IC250	8-759-800-81	IC LA7016		R203	1-249-405-11	CARBON	100 5% 1/4W
IC260	8-759-208-14	IC TC4066BPHB		R204	1-249-421-11	CARBON	2.2K 5% 1/4W
IC261	8-759-208-14	IC TC4066BPHB		R205	1-249-433-11	CARBON	22K 5% 1/4W
IC401	8-751-750-00	IC CX-175		R206	1-249-432-11	CARBON	18K 5% 1/4W
				R207	1-249-409-11	CARBON	220 5% 1/4W
				R210	1-249-437-11	CARBON	47K 5% 1/4W
				R211	1-249-437-11	CARBON	47K 5% 1/4W
<COIL>							
L280	1-410-509-11	INDUCTOR	10UH	R212	1-249-437-11	CARBON	47K 5% 1/4W
L282	1-410-470-11	INDUCTOR	10UH	R213	1-249-429-11	CARBON	10K 5% 1/4W
L401	1-410-087-31	INDUCTOR	10MMH	R214	1-249-433-11	CARBON	22K 5% 1/4W
L402	1-408-411-00	INDUCTOR	15UH	R215	1-249-437-11	CARBON	47K 5% 1/4W
L403	1-404-496-00	COIL		R216	1-249-429-11	CARBON	10K 5% 1/4W
L404	1-408-411-00	INDUCTOR	15UH	R217	1-249-429-11	CARBON	10K 5% 1/4W
L405	1-404-496-00	COIL		R218	1-249-425-11	CARBON	4.7K 5% 1/4W
L406	1-410-470-11	INDUCTOR	10UH	R219	1-249-405-11	CARBON	100 5% 1/4W
L408	1-410-336-11	INDUCTOR	220UH	R220	1-249-428-11	CARBON	8.2K 5% 1/4W
				R221	1-249-423-11	CARBON	3.3K 5% 1/4W
<TRANSISTOR>							
Q201	8-729-119-78	TRANSISTOR 2SC2785-HFE		R222	1-249-439-11	CARBON	68K 5% 1/4W
Q210	8-729-119-78	TRANSISTOR 2SC2785-HFE		R224	1-249-439-11	CARBON	68K 5% 1/4W
Q211	8-729-119-76	TRANSISTOR 2SA1175-HFE		R225	1-249-439-11	CARBON	68K 5% 1/4W
Q212	8-729-900-89	TRANSISTOR DTC144ES		R226	1-249-439-11	CARBON	68K 5% 1/4W
Q213	8-729-900-89	TRANSISTOR DTC144ES		R227	1-249-386-11	CARBON	2.7 5% 1/4W F
Q214	8-729-119-78	TRANSISTOR 2SC2785-HFE		R228	1-249-433-11	CARBON	22K 5% 1/4W
Q221	8-729-900-89	TRANSISTOR DTC144ES		R229	1-249-433-11	CARBON	22K 5% 1/4W
Q222	8-729-900-63	TRANSISTOR DTA124ES		R230	1-249-429-11	CARBON	10K 5% 1/4W
Q230	8-729-119-78	TRANSISTOR 2SC2785-HFE		R231	1-249-422-11	CARRON	2.7K 5% 1/4W
Q231	8-729-119-78	TRANSISTOR 2SC2785-HFE		R232	1-249-415-11	CARBON	680 5% 1/4W
Q232	8-729-119-78	TRANSISTOR 2SC2785-HFE		R233	1-249-415-11	CARBON	680 5% 1/4W
Q233	8-729-119-76	TRANSISTOR 2SA1175-HFE		R234	1-249-411-11	CARBON	330 5% 1/4W
Q234	8-729-119-78	TRANSISTOR 2SC2785-HFE		R235	1-249-416-11	CARBON	820 5% 1/4W
Q240	8-729-177-42	TRANSISTOR 2SD774-3		R236	1-249-411-11	CARBON	330 5% 1/4W
Q241	8-729-119-78	TRANSISTOR 2SC2785-HFE		R237	1-249-411-11	CARBON	330 5% 1/4W
Q242	8-729-119-78	TRANSISTOR 2SC2785-HFE		R238	1-249-405-11	CARBON	100 5% 1/4W
Q243	8-729-119-78	TRANSISTOR 2SC2785-HFE		R239	1-249-417-11	CARBON	1K 5% 1/4W
Q258	8-729-119-78	TRANSISTOR 2SC2785-HFE		R240	1-249-407-11	CARBON	150 5% 1/4W
Q259	8-729-119-78	TRANSISTOR 2SC2785-HFE		R241	1-247-895-00	CARBON	470K 5% 1/4W
Q260	8-729-900-89	TRANSISTOR DTC144ES		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

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

BA **FE**

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R246	1-249-435-11	CARBON	33K 5% 1/4W	R422	1-249-419-11	CARBON	1.5K 5% 1/4W
R247	1-249-435-11	CARBON	33K 5% 1/4W	R423	1-249-421-11	CARBON	2.2K 5% 1/4W
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	1-249-423-11	CARBON	3.3K 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				
R278	1-247-891-00	CARBON	330K 5% 1/4W				
R279	1-249-429-11	CARBON	10K 5% 1/4W				
							<VARIABLE RESISTOR>
R280	1-249-429-11	CARBON	10K 5% 1/4W	RV290	1-228-994-00	RES, ADJ, CARBON	10K
R281	1-249-429-11	CARBON	10K 5% 1/4W	RV291	1-228-991-00	RES, ADJ, CARBON	2.2K
R282	1-249-429-11	CARBON	10K 5% 1/4W	RV292	1-228-991-00	RES, ADJ, CARBON	2.2K
R283	1-249-429-11	CARBON	10K 5% 1/4W				
R284	1-249-429-11	CARBON	10K 5% 1/4W				
							<TRANSFORMER>
R285	1-249-429-11	CARBON	10K 5% 1/4W	T401	1-404-584-11	COIL	
R290	1-249-441-11	CARBON	100K 5% 1/4W				
R291	1-249-413-11	CARBON	470 5% 1/4W				
R292	1-249-435-11	CARBON	33K 5% 1/4W				
R293	1-249-435-11	CARBON	33K 5% 1/4W				

R294	1-249-405-11	CARBON	100 5% 1/4W				*A-1245-456-A FE BOARD, COMPLETE
R295	1-249-405-11	CARBON	100 5% 1/4W				*****
R296	1-249-405-11	CARBON	100 5% 1/4W				
R297	1-249-405-11	CARBON	100 5% 1/4W				*4-341-751-01 EYELET
R299	1-249-429-11	CARBON	10K 5% 1/4W				*4-341-752-01 EYELET
							4-363-414-00 SPACER, MICA
R401	1-249-419-11	CARBON	1.5K 5% 1/4W				
R403	1-247-881-00	CARBON	120K 5% 1/4W				
R405	1-215-429-00	METAL	2.2K 1% 1/6W				
R406	1-249-429-11	CARBON	10K 5% 1/4W				
R407	1-249-422-11	CARBON	2.7K 5% 1/4W				
							<CAPACITOR>
R408	1-249-414-11	CARBON	560 5% 1/4W	C602	Δ . 1-161-830-51	CERAMIC	0.0047MF
R409	1-249-421-11	CARBON	2.2K 5% 1/4W	C603	Δ . 1-161-830-51	CERAMIC	0.0047MF
R410	1-249-419-11	CARBON	1.5K 5% 1/4W	C604	Δ . 1-161-830-51	CERAMIC	0.0047MF
R411	1-249-419-11	CARBON	1.5K 5% 1/4W	C605	Δ . 1-161-830-51	CERAMIC	0.0047MF
R412	1-249-423-11	CARBON	3.3K 5% 1/4W	C606	1-125-222-41	ELECT(BLOCK)	330MF
							20% 400V
R413	1-249-434-11	CARBON	27K 5% 1/4W	C607	Δ . 1-136-360-51	FILM	0.22MF
R414	1-247-895-00	CARBON	470K 5% 1/4W	C608	Δ . 1-136-360-51	FILM	0.22MF
R415	1-249-412-11	CARBON	390 5% 1/4W	C611	1-102-973-00	CERAMIC	100PF
R416	1-249-415-11	CARBON	680 5% 1/4W	C612	1-161-754-00	CERAMIC	0.001MF
R417	1-249-409-11	CARBON	220 5% 1/4W	C613	1-123-946-00	ELECT	4.7MF
				C614	1-136-067-00	FILM	0.0036MF
R418	1-249-425-11	CARBON	4.7K 5% 1/4W	C615	1-129-765-00	FILM	0.047MF
R419	1-249-433-11	CARBON	22K 5% 1/4W	C616	1-124-798-11	ELECT	1MF
R420	1-215-432-00	METAL	3K 1% 1/6W	C617	1-124-902-00	ELECT	0.47MF
R421	1-249-419-11	CARBON	1.5K 5% 1/4W				20% 50V

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

F E

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK	
C618	1-162-318-11	CERAMIC	0.001MF	10%	500V	I0651	8-759-927-49	IC IR9431
C619	1-123-875-11	ELECT	10MF	20%	50V			
C620	1-124-446-11	ELECT	47MF	20%	10V			
C621	1-130-475-00	FILM	0.0022MF	5%	50V			
C622	1-104-067-00	POLYSTYRENE	390PF	5%	50V			
C623	1-126-233-11	ELECT	22MF	20%	25V	L621	1-407-365-00	COIL, CHOKE
C624	1-162-318-11	CERAMIC	0.001MF	10%	500V	L622	1-408-226-00	INDUCTOR 82UH
C625	1-124-463-00	ELECT	0.1MF	20%	50V	L623	1-410-397-21	FERRITE BEAD INDUCTOR
C626	1-161-973-00	CERAMIC	220PF	10%	400V	L624 Δ	1-410-396-31	FERRITE BEAD INDUCTOR
C627	1-136-066-00	FILM	0.003MF	3%	2KV	L625 Δ	1-410-396-31	FERRITE BEAD INDUCTOR
C631	1-162-116-00	CERAMIC	680PF	10%	2KV	L626 Δ	1-459-946-11	COIL, NOISE FILTER
C633	1-162-131-11	CERAMIC	220PF	10%	2KV	L627 Δ	1-459-946-11	COIL, NOISE FILTER
C651	1-125-494-11	ELECT(BLOCK)	560MF	20%	160V			
C654	1-102-030-00	CERAMIC	330PF	10%	500V			
C656	1-102-030-00	CERAMIC	330PF	10%	500V			
C657	1-161-973-00	CERAMIC	220PF	10%	400V	PS602A	1-532-838-21	LINK, IC 0.8A/125V
C658	1-124-499-11	ELECT	1MF	20%	50V			
C659	1-108-614-11	MYLAR	0.001MF	10%	100V			
C660 Δ	1-162-578-51	CERAMIC	0.0047MF	20%	400V			
C661 Δ	1-162-578-51	CERAMIC	0.0047MF	20%	400V			
C671	1-126-103-11	ELECT	470MF	20%	16V	Q611	8-729-119-80	TRANSISTOR 2SC2688-LK
C674	1-126-105-11	ELECT	1000MF	20%	35V	Q612	8-729-119-80	TRANSISTOR 2SC2688-LK
C675	1-162-116-00	CERAMIC	680PF	10%	2KV	Q613	8-729-802-14	TRANSISTOR 2SC3460
C676	1-102-973-00	CERAMIC	100PF	5%	50V	Q614	8-729-119-80	TRANSISTOR 2SC2688-LK
						Q615	8-729-119-78	TRANSISTOR 2SC2785-HFE
						Q617	8-729-119-78	TRANSISTOR 2SC2785-HFE
<DIODE>								
D601 Δ	8-719-503-06	DIODE S3WB60Z						
D605	8-719-911-19	DIODE ISS119				R601	1-205-712-00	WIREWOUND
D606	8-719-911-19	DIODE ISS119				R602 Δ	1-214-947-21	METAL
D607	8-719-110-90	DIODE RD39ES-B4				R603 Δ	1-247-721-51	CARBON
D608	8-719-110-90	DIODE RD39ES-B4				R604 Δ	1-247-721-51	CARBON
D611	8-719-118-34	DIODE RD110E-B				R605	1-202-720-00	SOLID
D612	8-719-925-06	DIODE ERC25-06S				R606	1-249-423-11	CARBON
D613	8-719-200-02	DIODE 10E2				R610	1-249-405-11	CARBON
D614	8-719-925-06	DIODE ERC25-06S				R611	1-216-444-11	METAL OXIDE
D615	8-719-109-97	DIODE RD6.8E-B2				R612	1-216-444-11	METAL OXIDE
D616	8-719-925-06	DIODE ERC25-06S				R613	1-249-496-11	CARBON
D617	8-719-911-19	DIODE ISS119				R614	1-215-923-00	METAL OXIDE
D619	8-719-911-19	DIODE ISS119				R615	1-247-887-00	CARBON
D620	8-719-925-06	DIODE ERC25-06S				R616	1-247-711-11	CARBON
D622	8-719-100-74	DIODE RD16E-B2				R617	1-247-725-11	CARBON
D651	8-719-300-33	DIODE RU3AM				R618	1-249-396-11	CARBON
D652	8-719-200-02	DIODE 10E2				R619	1-247-710-11	CARBON
D653	8-719-300-76	DIODE RH-1A				R620	1-217-192-21	WIREWOUND
D654	8-719-911-19	DIODE ISS119				R621	1-249-423-11	CARBON
D655	8-719-110-41	DIODE RD15ES-B2				R622	1-249-434-11	CARBON
<CONNECTOR>								
F1	*1-568-106-11	PIN, CONNECTOR 7P				R623	1-215-457-00	METAL
F3	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P				R624	1-249-429-11	CARBON
F5	*1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P				R625	1-247-726-11	CARBON
F6	*1-506-371-00	PIN, CONNECTOR 2P				R626	1-249-411-11	CARBON
F7	*1-568-106-11	PIN, CONNECTOR 7P				R627	1-249-438-11	CARBON
<FUSE>								
F601 Δ	1-532-350-11	FUSE, TIME-LAG 4A/250V				R628	1-247-887-00	CARBON
	*1-533-189-11	HOLDER, FUSE; F601				R629	1-249-428-11	CARBON
<IC>								
IC601	8-759-100-75	IC UPC1394C				R630	1-249-436-11	CARBON
IC602	8-719-939-00	IC PC111S				R631	1-249-424-11	CARBON
						R632	1-247-753-11	CARBON
						R633	1-249-441-11	CARBON
						R634	1-249-417-11	CARBON
						R635	1-205-928-11	WIREWOUND
						R636	1-205-927-11	WIREWOUND
						R637	1-216-465-11	METAL OXIDE
						R638	1-249-438-11	CARBON
						R640	1-249-438-11	CARBON
						R644	1-247-885-00	CARBON

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

PVM-1440QM/1442QM/1444QM

FE

QA

QA

QB

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK				
<SWITCH>											
S101	1-570-145-11	SWITCH, SLIDE		Q116	8-729-119-78	TRANSISTOR 2SC2785-HFE					
S102	1-570-145-11	SWITCH, SLIDE		Q120	8-729-900-65	TRANSISTOR DTA144ES					

*A-1270-246-A QB BOARD, COMPLETE (PVM-1444QM ONLY)				Q121	8-729-900-65	TRANSISTOR DTA144ES					

<CONNECTOR>											

<CAPACITOR>											
C126	1-124-477-11	ELECT	47MF	20%	25V	R133	1-249-405-11	CARBON	100	5%	1/4W
C127	1-124-477-11	ELECT	47MF	20%	25V	R134	1-249-433-11	CARBON	22K	5%	1/4W
C128	1-124-477-11	ELECT	47MF	20%	25V	R135	1-249-433-11	CARBON	22K	5%	1/4W
C129	1-161-021-11	CERAMIC	0.047MF	10%	25V	R137	1-249-433-11	CARBON	22K	5%	1/4W
C130	1-124-477-11	ELECT	47MF	20%	25V	R138	1-249-433-11	CARBON	22K	5%	1/4W
C131	1-124-477-11	ELECT	47MF	20%	25V	R139	1-249-405-11	CARBON	100	5%	1/4W
C132	1-124-477-11	ELECT	47MF	20%	25V	R140	1-249-433-11	CARBON	22K	5%	1/4W
C133	1-124-477-11	ELECT	47MF	20%	25V	R141	1-249-433-11	CARBON	22K	5%	1/4W
C134	1-124-477-11	ELECT	47MF	20%	25V	R142	1-249-433-11	CARBON	22K	5%	1/4W
C135	1-124-477-11	ELECT	47MF	20%	25V	R143	1-249-433-11	CARBON	22K	5%	1/4W
C136	1-124-477-11	ELECT	47MF	20%	25V	R144	1-249-412-11	CARBON	390	5%	1/4W
C142	1-124-631-11	ELECT	47MF	20%	16V	R145	1-249-405-11	CARBON	100	5%	1/4W
C143	1-124-477-11	ELECT	47MF	20%	25V	R146	1-249-436-11	CARBON	39K	5%	1/4W
C144	1-124-477-11	ELECT	47MF	20%	25V	R147	1-249-435-11	CARBON	33K	5%	1/4W
C145	1-124-477-11	ELECT	47MF	20%	25V	R149	1-249-433-11	CARBON	22K	5%	1/4W
C146	1-124-477-11	ELECT	47MF	20%	25V	R150	1-249-433-11	CARBON	22K	5%	1/4W
C147	1-101-004-00	CERAMIC	0.01MF		50V	R151	1-249-429-11	CARBON	10K	5%	1/4W
C148	1-101-004-00	CERAMIC	0.01MF		50V	R152	1-249-429-11	CARBON	10K	5%	1/4W
C149	1-124-478-11	ELECT	100MF	20%	25V	R153	1-249-417-11	CARBON	1K	5%	1/4W
C150	1-124-499-11	ELECT	1MF	20%	50V	R154	1-249-422-11	CARBON	2.7K	5%	1/4W
C151	1-161-021-11	CERAMIC	0.047MF	10%	25V	R155	1-215-383-00	METAL	27	1%	1/6W
C152	1-124-925-11	ELECT	2.2MF	20%	50V	R161	1-215-397-00	METAL	100	1%	1/6W
C154	1-101-004-00	CERAMIC	0.01MF		50V	R162	1-215-397-00	METAL	100	1%	1/6W
C169	1-124-477-11	ELECT	47MF	20%	25V	R163	1-249-422-11	CARBON	2.7K	5%	1/4W
						R164	1-215-431-00	METAL	2.7K	1%	1/6W
<DIODE>											
D101	8-719-911-19	DIODE	ISS119			R165	1-249-422-11	CARBON	2.7K	5%	1/4W
D102	8-719-911-19	DIODE	ISS119			R166	1-215-431-00	METAL	2.7K	1%	1/6W
D105	8-719-911-19	DIODE	ISS119			R167	1-249-422-11	CARBON	2.7K	5%	1/4W
D106	8-719-911-19	DIODE	ISS119			R169	1-249-429-11	CARBON	10K	5%	1/4W
D111	8-719-911-19	DIODE	ISS119			R170	1-249-437-11	CARBON	47K	5%	1/4W
D112	8-719-911-19	DIODE	ISS119			R171	1-249-437-11	CARBON	47K	5%	1/4W
						R172	1-249-417-11	CARBON	1K	5%	1/4W
						R173	1-249-405-11	CARBON	100	5%	1/4W
						R175	1-249-433-11	CARBON	22K	5%	1/4W
						R176	1-249-433-11	CARBON	22K	5%	1/4W
<IC>											
IC104	8-759-800-81	IC	LA7016			R180	1-249-417-11	CARBON	1K	5%	1/4W
IC105	8-759-800-81	IC	LA7016			R181	1-249-417-11	CARBON	1K	5%	1/4W
IC106	8-759-710-31	IC	NJM2243S			R182	1-249-409-11	CARBON	220	5%	1/4W
IC107	8-759-800-81	IC	LA7016			R183	1-249-409-11	CARBON	220	5%	1/4W
IC108	8-759-240-11	IC	TC4011BP			R186	1-249-435-11	CARBON	33K	5%	1/4W
<TRANSISTOR>											
Q101	8-729-900-36	TRANSISTOR	DTC124ES			R187	1-249-417-11	CARBON	1K	5%	1/4W
Q103	8-729-119-78	TRANSISTOR	2SC2785-HFE			R188	1-249-435-11	CARBON	33K	5%	1/4W
Q104	8-729-119-78	TRANSISTOR	2SC2785-HFE			R189	1-249-433-11	CARBON	22K	5%	1/4W
Q110	8-729-119-76	TRANSISTOR	2SA1175-HFE			R190	1-249-433-11	CARBON	22K	5%	1/4W
Q111	8-729-119-76	TRANSISTOR	2SA1175-HFE			R191	1-249-420-11	CARBON	1.8K	5%	1/4W
Q112	8-729-119-76	TRANSISTOR	2SA1175-HFE			R192	1-249-420-11	CARBON	1.8K	5%	1/4W
Q113	8-729-119-78	TRANSISTOR	2SC2785-HFE			R193	1-249-420-11	CARBON	1.8K	5%	1/4W
Q114	8-729-119-78	TRANSISTOR	2SC2785-HFE			R194	1-215-419-00	METAL	820	1%	1/6W
Q115	8-729-119-78	TRANSISTOR	2SC2785-HFE			R197	1-249-417-11	CARBON	1K	5%	1/4W
						R198	1-249-429-11	CARBON	10K	5%	1/4W
						R199	1-249-417-11	CARBON	1K	5%	1/4W
						R201	1-249-405-11	CARBON	100	5%	1/4W
						R202	1-249-405-11	CARBON	100	5%	1/4W

QB

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R203	1-249-405-11	CARBON	100 5% 1/4W	R108	1-249-405-11	CARBON	100 5% 1/4W
R204	1-249-425-11	CARBON	4.7K 5% 1/4W	R109	1-247-104-00	CARBON	75 5% 1/4W
R205	1-249-441-11	CARBON	100K 5% 1/4W	R110	1-247-104-00	CARBON	75 5% 1/4W
R206	1-249-433-11	CARBON	22K 5% 1/4W	R111	1-249-429-11	CARBON	10K 5% 1/4W
R207	1-249-441-11	CARBON	100K 5% 1/4W	R112	1-249-405-11	CARBON	100 5% 1/4W
R208	1-249-415-11	CARBON	680 5% 1/4W	R113	1-249-429-11	CARBON	10K 5% 1/4W
R209	1-249-405-11	CARBON	100 5% 1/4W	R114	1-247-104-00	CARBON	75 5% 1/4W
R210	1-249-405-11	CARBON	100 5% 1/4W	R115	1-249-405-11	CARBON	100 5% 1/4W
R211	1-249-417-11	CARBON	1K 5% 1/4W	R116	1-247-704-11	CARBON	220 5% 1/4W
R212	1-249-420-11	CARBON	1.8K 5% 1/4W	R117	1-247-703-11	CARBON	180 5% 1/4W
R213	1-249-426-11	CARBON	5.6K 5% 1/4W	R118	1-247-703-11	CARBON	180 5% 1/4W
R214	1-215-436-00	METAL	4.3K 1% 1/6W	R119	1-249-417-11	CARBON	1K 5% 1/4W
R215	1-215-436-00	METAL	4.3K 1% 1/6W	R121	1-249-417-11	CARBON	1K 5% 1/4W

*A-1270-247-A QC BOARD, COMPLETE (PVM-1442QM ONLY)				R122	1-215-393-00	METAL	68 1% 1/6W
*****				R123	1-249-417-11	CARBON	1K 5% 1/4W
*****				R125	1-249-405-11	CARBON	100 5% 1/4W
*****				R126	1-249-433-11	CARBON	22K 5% 1/4W
*****				R127	1-249-433-11	CARBON	22K 5% 1/4W
1-537-191-11 TERMINAL BOARD, INPUT/OUTPUT				R128	1-249-429-11	CARBON	10K 5% 1/4W
1-537-192-11 TERMINAL BOARD, INPUT/OUTPUT				R129	1-247-104-00	CARBON	75 5% 1/4W
*4-379-104-01 INSULATOR, SLIDE SW				R130	1-247-104-00	CARBON	75 5% 1/4W
<CAPACITOR>				R131	1-247-104-00	CARBON	75 5% 1/4W
<CAPACITOR>				R132	1-249-417-11	CARBON	1K 5% 1/4W
C101	1-124-589-11	ELECT	47MF 20% 16V	R133	1-247-104-00	CARBON	75 5% 1/4W
C102	1-126-160-11	ELECT	1MF 20% 50V	R134	1-249-417-11	CARBON	1K 5% 1/4W
C103	1-126-160-11	ELECT	1MF 20% 50V	R220	1-215-429-00	METAL	2.2K 1% 1/6W
C104	1-161-021-11	CERAMIC	0.047MF 10% 25V	R221	1-215-429-00	METAL	2.2K 1% 1/6W
C105	1-126-160-11	ELECT	1MF 20% 50V	R222	1-215-429-00	METAL	2.2K 1% 1/6W
C106	1-126-160-11	ELECT	1MF 20% 50V	R254	1-249-420-11	CARBON	1.8K 5% 1/4W
C107	1-124-589-11	ELECT	47MF 20% 16V	R298	1-249-431-11	CARBON	15K 5% 1/4W
C108	1-124-589-11	ELECT	47MF 20% 16V	<VARIABLE RESISTOR>			
C109	1-124-589-11	ELECT	47MF 20% 16V	<VARIABLE RESISTOR>			
C110	1-124-589-11	ELECT	47MF 20% 16V	<SWITCH>			
C111	1-124-589-11	ELECT	47MF 20% 16V	RV101	1-228-848-00	RES, VAR, CARBON	10K
C112	1-124-589-11	ELECT	47MF 20% 16V	RV102	1-228-848-00	RES, VAR, CARBON	10K
C113	1-124-589-11	ELECT	47MF 20% 16V	<SWITCH>			
C114	1-126-160-11	ELECT	1MF 20% 50V	S101	1-570-145-11	SWITCH, SLIDE	
C115	1-126-160-11	ELECT	1MF 20% 50V	*****			
C116	1-124-589-11	ELECT	47MF 20% 16V	*A-1270-248-A QD BOARD, COMPLETE (PVM-1442QM ONLY)			
C117	1-126-157-11	ELECT	10MF 20% 16V	*****			
C118	1-126-157-11	ELECT	10MF 20% 16V	*****			
C119	1-126-157-11	ELECT	10MF 20% 16V	*****			
C120	1-124-589-11	ELECT	47MF 20% 16V	<CAPACITOR>			
C122	1-124-589-11	ELECT	47MF 20% 16V	C121	1-126-094-11	ELECT	4.7MF 20% 25V
C123	1-124-589-11	ELECT	47MF 20% 16V	C124	1-101-004-00	CERAMIC	0.01MF 50V
<IC>				C125	1-124-477-11	ELECT	47MF 20% 16V
IC101	8-759-800-81	IC LA7016		C126	1-124-589-11	ELECT	47MF 20% 16V
<TRANSISTOR>				C127	1-101-004-00	CERAMIC	0.01MF 50V
Q122	8-729-119-78	TRANSISTOR 2SC2785-HFE		C128	1-124-589-11	ELECT	47MF 20% 16V
<RESISTOR>				C129	1-124-589-11	ELECT	47MF 20% 16V
R101	1-249-429-11	CARBON	10K 5% 1/4W	C130	1-124-584-00	ELECT	100MF 20% 10V
R102	1-249-405-11	CARBON	100 5% 1/4W	C131	1-161-021-11	CERAMIC	0.047MF 10% 25V
R103	1-249-429-11	CARBON	10K 5% 1/4W	C132	1-102-963-00	CERAMIC	33PF 5% 50V
R104	1-249-405-11	CARBON	100 5% 1/4W	C133	1-126-157-11	ELECT	10MF 20% 16V
R105	1-247-104-00	CARBON	75 5% 1/4W	C134	1-161-021-11	CERAMIC	0.047MF 10% 25V
R106	1-249-405-11	CARBON	100 5% 1/4W	C135	1-106-375-12	MYLAR	0.022MF 10% 100V
R107	1-247-104-00	CARBON	75 5% 1/4W	C136	1-101-004-00	CERAMIC	0.01MF 50V
				C137	1-124-589-11	ELECT	47MF 20% 16V
				C138	1-124-589-11	ELECT	47MF 20% 16V
				C139	1-126-160-11	ELECT	1MF 20% 50V

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REF. NO.	PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION		REMARK
C140	1-124-589-11	ELECT	47MF	20%	16V	R135	1-249-417-11	CARBON	1K 5% 1/4W
C141	1-102-965-00	CERAMIC	39PF	5%	50V	R136	1-249-411-11	CARBON	330 5% 1/4W
C142	1-102-965-00	CERAMIC	39PF	5%	50V	R137	1-249-418-11	CARBON	1.2K 5% 1/4W
C143	1-102-965-00	CERAMIC	39PF	5%	50V	R138	1-249-421-11	CARBON	2.2K 5% 1/4W
C144	1-126-094-11	ELECT	4.7MF	20%	25V	R139	1-249-424-11	CARBON	3.9K 5% 1/4W
C145	1-161-021-11	CERAMIC	0.047MF	10%	25V	R140	1-249-417-11	CARBON	1K 5% 1/4W
C146	1-124-589-11	ELECT	47MF	20%	16V	R141	1-249-425-11	CARBON	4.7K 5% 1/4W
C147	1-124-589-11	ELECT	47MF	20%	16V	R142	1-249-435-11	CARBON	33K 5% 1/4W
C148	1-126-157-11	ELECT	10MF	20%	16V	R143	1-249-435-11	CARBON	33K 5% 1/4W
C149	1-130-728-00	FILM	0.0022MF	10%	50V	R144	1-249-417-11	CARBON	1K 5% 1/4W
C150	1-130-483-00	MYLAR	0.01MF	5%	50V	R145	1-249-411-11	CARBON	330 5% 1/4W
C151	1-130-471-00	FILM	0.001MF	10%	50V	R146	1-249-417-11	CARBON	1K 5% 1/4W
C172	1-101-005-00	CERAMIC	0.022MF		50V	R147	1-249-411-11	CARBON	330 5% 1/4W
C173	1-136-169-00	FILM	0.22MF	5%	50V	R148	1-249-429-11	CARBON	10K 5% 1/4W
C174	1-102-965-00	CERAMIC	39PF	5%	50V	R149	1-249-425-11	CARBON	4.7K 5% 1/4W
<DIODE>									
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 ISS119				R151	1-249-429-11	CARBON	10K 5% 1/4W
D104	8-719-911-19	DIODE ISS119				R152	1-249-429-11	CARBON	10K 5% 1/4W
D105	8-719-911-19	DIODE ISS119				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 ISS119				R156	1-249-433-11	CARBON	22K 5% 1/4W
D116	8-719-911-19	DIODE ISS119				R157	1-249-430-11	CARBON	12K 5% 1/4W
D108	8-719-109-85	DIODE RD5.1ES-B2				R158	1-249-417-11	CARBON	1K 5% 1/4W
D111	8-719-911-19	DIODE ISS119				R159	1-247-706-11	CARBON	330 5% 1/4W
<IC>									
IC102	8-759-900-09	IC SN74LS09N				R160	1-247-706-11	CARBON	330 5% 1/4W
IC103	8-759-901-38	IC SN74LS138N				R161	1-247-706-11	CARBON	330 5% 1/4W
IC104	8-759-901-36	IC SN74LS136N				R162	1-249-426-11	CARBON	5.6K 5% 1/4W
IC105	8-759-900-11	IC SN74LS11N				R163	1-249-421-11	CARBON	2.2K 5% 1/4W
IC106	8-759-800-81	IC LA7016				R164	1-249-421-11	CARBON	2.2K 5% 1/4W
IC107	8-759-933-23	IC BA236				R165	1-249-425-11	CARBON	4.7K 5% 1/4W
<FILTER MODULE>									
LP101	1-235-988-11	FILTER MODULE, LOW PASS				R166	1-249-425-11	CARBON	4.7K 5% 1/4W
<TRANSISTOR>									
Q101	8-729-119-78	TRANSISTOR 2SC2785-HFE				R167	1-247-721-11	CARBON	4.7K 5% 1/4W
Q102	8-729-119-78	TRANSISTOR 2SC2785-HFE				R168	1-249-421-11	CARBON	2.2K 5% 1/4W
Q103	8-729-119-78	TRANSISTOR 2SC2785-HFE				R169	1-249-433-11	CARBON	22K 5% 1/4W
Q104	8-729-119-78	TRANSISTOR 2SC2785-HFE				R170	1-249-437-11	CARBON	47K 5% 1/4W
Q105	8-729-119-78	TRANSISTOR 2SC2785-HFE				R171	1-247-725-11	CARBON	10K 5% 1/4W
Q106	8-729-119-78	TRANSISTOR 2SC2785-HFE				R172	1-249-405-11	CARBON	100 5% 1/4W
Q107	8-729-119-78	TRANSISTOR 2SC2785-HFE				R173	1-247-716-11	CARBON	1.8K 5% 1/4W
Q108	8-729-119-78	TRANSISTOR 2SC2785-HFE				R174	1-249-432-11	CARBON	18K 5% 1/4W
Q109	8-729-119-78	TRANSISTOR 2SC2785-HFE				R175	1-249-408-11	CARBON	180 5% 1/4W
Q110	8-729-900-36	TRANSISTOR DTC124ES				R176	1-249-437-11	CARBON	47K 5% 1/4W
Q111	8-729-900-89	TRANSISTOR DTC144ES				R178	1-249-418-11	CARBON	1.2K 5% 1/4W
Q112	8-729-119-78	TRANSISTOR 2SC2785-HFE				R179	1-247-713-11	CARBON	1K 5% 1/4W
Q113	8-729-119-78	TRANSISTOR 2SC2785-HFE				R220	1-249-429-11	CARBON	10K 5% 1/4W
Q114	8-729-900-36	TRANSISTOR DTC124ES				R221	1-249-437-11	CARBON	47K 5% 1/4W
Q115	8-729-119-78	TRANSISTOR 2SC2785-HFE				R222	1-249-437-11	CARBON	47K 5% 1/4W
Q125	8-729-119-76	TRANSISTOR 2SA1175-HFE				R223	1-249-417-11	CARBON	1K 5% 1/4W
Q131	8-729-119-76	TRANSISTOR 2SA1175-HFE				R224	1-249-429-11	CARBON	10K 5% 1/4W
Q132	8-729-119-76	TRANSISTOR 2SA1175-HFE				R225	1-249-425-11	CARBON	4.7K 5% 1/4W
Q135	8-729-900-65	TRANSISTOR DTA144ES				R226	1-249-409-11	CARBON	220 5% 1/4W
<RESISTOR>									
						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

PVM-1440QM/1442QM/1444QM

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK				
<VARIABLE RESISTOR>											
RV103	1-228-995-00	RES, ADJ, CARBON 22K		QE2	*1-564-516-11	PLUG, CONNECTOR 13P					
<SWITCH>											
S102	1-553-977-41	SWITCH, SLIDE		QE3	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)					

*A-1270-249-A QE BOARD, COMPLETE(PVM-1442QM ONLY) *****											
<CAPACITOR>											
C152	1-101-004-00	CERAMIC	0.01MF	R180	1-249-405-11	CARBON	100 5% 1/4W				
C154	1-123-875-11	ELECT	10MF	R181	1-249-412-11	CARBON	390 5% 1/4W				
C155	1-124-499-11	ELECT	1MF	R182	1-249-417-11	CARBON	1K 5% 1/4W				
C156	1-124-499-11	ELECT	1MF	R183	1-249-436-11	CARBON	39K 5% 1/4W				
C157	1-126-160-11	ELECT	1MF	R184	1-249-435-11	CARBON	33K 5% 1/4W				
C158	1-124-477-11	ELECT	47MF	R185	1-249-405-11	CARBON	100 5% 1/4W				
C159	1-126-160-11	ELECT	1MF	R186	1-249-433-11	CARBON	22K 5% 1/4W				
C160	1-124-499-11	ELECT	1MF	R187	1-249-433-11	CARBON	22K 5% 1/4W				
C161	1-124-477-11	ELECT	47MF	R188	1-249-405-11	CARBON	100 5% 1/4W				
C162	1-124-477-11	ELECT	47MF	R189	1-249-433-11	CARBON	22K 5% 1/4W				
C163	1-124-477-11	ELECT	47MF	R190	1-249-433-11	CARBON	22K 5% 1/4W				
C164	1-161-021-11	CERAMIC	0.047MF	R192	1-249-437-11	CARBON	47K 5% 1/4W				
C165	1-124-477-11	ELECT	47MF	R193	1-249-429-11	CARBON	10K 5% 1/4W				
C166	1-124-477-11	ELECT	47MF	R194	1-249-433-11	CARBON	22K 5% 1/4W				
C167	1-124-477-11	ELECT	47MF	R195	1-249-433-11	CARBON	22K 5% 1/4W				
C168	1-124-589-11	ELECT	47MF	R196	1-249-405-11	CARBON	100 5% 1/4W				
C169	1-161-021-11	CERAMIC	0.047MF	R197	1-249-421-11	CARBON	2.2K 5% 1/4W				
C170	1-124-477-11	ELECT	47MF	R198	1-249-421-11	CARBON	2.2K 5% 1/4W				
C171	1-124-925-11	ELECT	2.2MF	R199	1-249-441-11	CARBON	100K 5% 1/4W				
<DIODE>											
D108	8-719-911-19	DIODE ISS119		R200	1-249-435-11	CARBON	33K 5% 1/4W				
D109	8-719-911-19	DIODE ISS119		R201	1-249-428-11	CARBON	8.2K 5% 1/4W				
D110	8-719-911-19	DIODE ISS119		R202	1-249-417-11	CARBON	1K 5% 1/4W				
D111	8-719-911-19	DIODE ISS119		R203	1-249-429-11	CARBON	10K 5% 1/4W				
D112	8-719-911-19	DIODE ISS119		R204	1-249-428-11	CARBON	8.2K 5% 1/4W				
D113	8-719-911-19	DIODE ISS119		R205	1-249-405-11	CARBON	100 5% 1/4W				
D114	8-719-911-19	DIODE ISS119		R206	1-249-429-11	CARBON	10K 5% 1/4W				
D115	8-719-911-19	DIODE ISS119		R207	1-249-429-11	CARBON	10K 5% 1/4W				
<IC>											
IC108	8-759-800-81	IC LA7016		R211	1-249-433-11	CARBON	22K 5% 1/4W				
IC109	8-759-800-81	IC LA7016		R212	1-249-433-11	CARBON	22K 5% 1/4W				
IC110	8-759-800-81	IC LA7016		R213	1-249-433-11	CARBON	22K 5% 1/4W				
IC111	8-759-710-31	IC NJM2243S		R215	1-249-405-11	CARBON	100 5% 1/4W				
<TRANSISTOR>											
Q116	8-729-119-78	TRANSISTOR 2SC2785-HFE		R216	1-249-411-11	CARBON	330 5% 1/4W				
Q117	8-729-119-78	TRANSISTOR 2SC2785-HFE		R217	1-249-433-11	CARBON	22K 5% 1/4W				
Q118	8-729-119-76	TRANSISTOR 2SA1175-HFE		R251	1-249-417-11	CARBON	1K 5% 1/4W				
Q119	8-729-900-36	TRANSISTOR DTC124ES		R252	1-249-417-11	CARBON	1K 5% 1/4W				
Q120	8-729-119-78	TRANSISTOR 2SC2785-HFE		R253	1-249-417-11	CARBON	1K 5% 1/4W				
Q121	8-729-119-78	TRANSISTOR 2SC2785-HFE		R265	1-249-415-11	CARBON	680 5% 1/4W				
Q127	8-729-900-65	TRANSISTOR DTA144ES		*****							
<CONNECTOR>											
QE1	*1-564-515-11	PLUG, CONNECTOR 12P		<CAPACITOR>							
QE2	*1-564-516-11	PLUG, CONNECTOR 13P		C101	1-124-589-11	ELECT	47MF 20% 16V				
QE3	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)		C102	1-126-160-11	ELECT	1MF 20% 50V				
				C103	1-126-160-11	ELECT	1MF 20% 50V				
				C105	1-161-021-11	CERAMIC	0.047MF 10% 25V				
				C106	1-126-160-11	ELECT	1MF 20% 50V				
				C107	1-126-160-11	ELECT	1MF 20% 50V				
				C108	1-124-589-11	ELECT	47MF 20% 16V				
				C109	1-124-589-11	ELECT	47MF 20% 16V				
				C110	1-126-160-11	ELECT	1MF 20% 50V				

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK				
C111	1-124-589-11	ELECT	47MF	20%	16V	R123	1-249-433-11	CARBON	22K	5%	1/4W
C112	1-126-160-11	ELECT	1MF	20%	50V	R124	1-249-429-11	CARBON	10K	5%	1/4W
C113	1-124-589-11	ELECT	47MF	20%	16V	R125	1-249-429-11	CARBON	10K	5%	1/4W
C114	1-161-021-11	CERAMIC	0.047MF	10%	25V	R126	1-247-104-00	CARBON	75	5%	1/4W
C116	1-124-589-11	ELECT	47MF	20%	16V	R127	1-247-104-00	CARBON	75	5%	1/4W
C117	1-124-589-11	ELECT	47MF	20%	16V	R128	1-247-104-00	CARBON	75	5%	1/4W
C118	1-124-589-11	ELECT	47MF	20%	16V	R129	1-249-417-11	CARBON	1K	5%	1/4W
C119	1-126-160-11	ELECT	1MF	20%	50V	R130	1-247-104-00	CARBON	75	5%	1/4W
C120	1-126-160-11	ELECT	1MF	20%	50V	R131	1-247-804-11	CARBON	75	5%	1/4W
C121	1-126-160-11	ELECT	1MF	20%	50V	R132	1-247-704-11	CARBON	220	5%	1/4W
C122	1-124-589-11	ELECT	47MF	20%	16V	R133	1-247-704-11	CARBON	220	5%	1/4W
C123	1-124-589-11	ELECT	47MF	20%	16V	R134	1-249-429-11	CARBON	10K	5%	1/4W
C124	1-124-589-11	ELECT	47MF	20%	16V	R135	1-249-414-11	CARBON	560	5%	1/4W
C125	1-102-959-00	CERAMIC	22PF	5%	50V	R136	1-247-704-11	CARBON	220	5%	1/4W
C126	1-126-160-11	ELECT	1MF	20%	50V	R138	1-249-409-11	CARBON	220	5%	1/4W
C127	1-126-157-11	ELECT	10MF	20%	16V	R141	1-249-433-11	CARBON	22K	5%	1/4W
C128	1-126-157-11	ELECT	10MF	20%	16V	R142	1-249-429-11	CARBON	10K	5%	1/4W
C129	1-126-157-11	ELECT	10MF	20%	16V	R148	1-249-433-11	CARBON	22K	5%	1/4W
C130	1-102-965-00	CERAMIC	39PF	5%	50V	R149	1-249-433-11	CARBON	22K	5%	1/4W
C131	1-126-157-11	ELECT	10MF	20%	16V	R154	1-249-433-11	CARBON	22K	5%	1/4W
C132	1-102-947-00	CERAMIC	10PF	0.5PF	50V	R155	1-249-433-11	CARBON	22K	5%	1/4W
C134	1-102-947-00	CERAMIC	10PF	0.5PF	50V	R187	1-249-405-11	CARBON	100	5%	1/4W
C135	1-102-947-00	CERAMIC	10PF	0.5PF	50V	R201	1-247-104-00	CARBON	75	5%	1/4W
C136	1-124-589-11	ELECT	47MF	20%	16V	R202	1-249-433-11	CARBON	22K	5%	1/4W
		<DIODE>				R206	1-249-419-11	CARBON	1.5K	5%	1/4W
						R207	1-249-401-11	CARBON	47	5%	1/4W

D101 8-719-110-08 DIODE RD8.2ES-B2
D102 8-719-110-08 DIODE RD8.2ES-B2

<VARIABLE RESISTOR>

<IC>

IC101 8-759-710-31 IC NJM2243S
IC102 8-759-710-31 IC NJM2243S
IC103 8-759-800-81 IC LA7016

RV101 1-228-848-00 RES, VAR, CARBON 10K

<SWITCH>

S101 1-570-145-11 SWITCH, SLIDE
S102 1-570-145-11 SWITCH, SLIDE

<COIL>

L101 1-410-478-11 INDUCTOR 47UH

*A-1270-267-A QG BOARD, COMPLETE (PVM-1440QM ONLY)

<TRANSISTOR>

Q113 8-729-119-78 TRANSISTOR 2SC2785-HFE

<CAPACITOR>

<CONNECTOR>

QF6 *1-560-721-21 PLUG, CONNECTOR 2P

C137 1-124-477-11 ELECT 47MF 20% 25V
C138 1-124-477-11 ELECT 47MF 20% 25V
C139 1-101-004-00 CERAMIC 0.01MF 50V
C140 1-123-875-11 ELECT 10MF 20% 50V
C142 1-124-477-11 ELECT 47MF 20% 25V

<RESISTOR>

R101 1-249-429-11 CARBON 10K 5% 1/4W
R104 1-249-429-11 CARBON 10K 5% 1/4W
R106 1-249-462-11 CARBON 22K 5% 1/4W
R107 1-249-433-11 CARBON 22K 5% 1/4W
R108 1-249-429-11 CARBON 10K 5% 1/4W

R109 1-247-104-00 CARBON 75 5% 1/4W
R112 1-247-104-00 CARBON 75 5% 1/4W
R114 1-249-405-11 CARBON 100 5% 1/4W
R115 1-249-433-11 CARBON 22K 5% 1/4W
R116 1-249-433-11 CARBON 22K 5% 1/4W

R117 1-247-104-00 CARBON 75 5% 1/4W
R118 1-247-104-00 CARBON 75 5% 1/4W
R119 1-249-429-11 CARBON 10K 5% 1/4W
R122 1-249-405-11 CARBON 100 5% 1/4W

C143 1-124-477-11 ELECT 47MF 20% 16V
C144 1-124-477-11 ELECT 47MF 20% 25V
C145 1-124-477-11 ELECT 47MF 20% 25V
C146 1-123-875-11 ELECT 10MF 20% 50V
C147 1-124-477-11 ELECT 47MF 20% 25V

C148 1-123-875-11 ELECT 10MF 20% 50V
C149 1-124-499-11 ELECT 1MF 20% 50V
C150 1-123-875-11 ELECT 10MF 20% 50V
C152 1-124-471-00 ELECT 1000MF 20% 6.3V
C153 1-124-499-11 ELECT 1MF 20% 50V

C154 1-124-477-11 ELECT 47MF 20% 25V
C155 1-102-971-00 CERAMIC 82PF 5% 50V
C156 1-101-880-00 CERAMIC 47PF 5% 50V
C157 1-124-477-11 ELECT 47MF 20% 25V
C159 1-124-477-11 ELECT 47MF 20% 25V

C161 1-124-477-11 ELECT 47MF 20% 25V

PVM-1440QM/1442QM/1444QM

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C171	1-101-004-00	CERAMIC	0.01MF	R173	1-215-397-00	METAL	100 1% 1/6W
C172	1-124-120-11	ELECT	220MF	R174	1-215-399-00	METAL	120 1% 1/6W
			20%	R175	1-215-397-00	METAL	100 1% 1/6W
			25V	R176	1-215-865-11	METAL OXIDE	220 5% 1W F
				R177	1-247-695-11	CARBON	39 5% 1/4W
				R178	1-249-412-11	CARBON	390 5% 1/4W
				R179	1-249-435-11	CARBON	33K 5% 1/4W
				R180	1-249-434-11	CARBON	27K 5% 1/4W
				R181	1-249-414-11	CARBON	560 5% 1/4W
				R182	1-249-419-11	CARBON	1.5K 5% 1/4W
				R183	1-249-413-11	CARBON	470 5% 1/4W
				R184	1-249-413-11	CARBON	470 5% 1/4W
				R185	1-249-434-11	CARBON	27K 5% 1/4W
				R186	1-249-428-11	CARBON	8.2K 5% 1/4W
				R188	1-249-429-11	CARBON	10K 5% 1/4W
				R189	1-249-429-11	CARBON	10K 5% 1/4W
				R190	1-249-429-11	CARBON	10K 5% 1/4W
				R191	1-249-417-11	CARBON	1K 5% 1/4W
				R192	1-249-433-11	CARBON	22K 5% 1/4W
				R193	1-249-433-11	CARBON	22K 5% 1/4W
				R198	1-215-413-00	METAL	470 1% 1/6W
				R199	1-215-413-00	METAL	470 1% 1/6W
				R200	1-215-413-00	METAL	470 1% 1/6W
				R203	1-249-433-11	CARBON	22K 5% 1/4W
				R204	1-249-434-11	CARBON	27K 5% 1/4W
				R205	1-249-415-11	CARBON	680 5% 1/4W

L111	1-408-413-00	INDUCTOR	22UH				*A-1296-520-A A BOARD, COMPLETE

							*4-329-153-00 HEAT SINK, V OUT
							*4-341-751-01 EYELET
							*4-341-752-01 EYELET
							*4-363-404-00 HOLDER, IC
							4-363-414-00 SPACER, MICA

Q101	8-729-900-36	TRANSISTOR DTC124ES					<CONNECTOR>
Q102	8-729-119-78	TRANSISTOR 2SC2785-HFE					A1 *1-508-768-00 PIN, CONNECTOR (5MM PITCH) 6P
Q103	8-729-119-78	TRANSISTOR 2SC2785-HFE					A2 *1-560-123-00 PLUG, CONNECTOR (2.5MM) 3P
Q105	8-729-177-42	TRANSISTOR 2SD774-3					A3 *1-565-498-11 CONNECTOR, BOARD TO BOARD 7P
Q106	8-729-177-42	TRANSISTOR 2SD774-3					A4 *1-564-596-11 PLUG, CONNECTOR 15P
Q107	8-729-119-76	TRANSISTOR 2SA1175-HFE					A5 *1-564-596-11 PLUG, CONNECTOR 15P
Q108	8-729-119-78	TRANSISTOR 2SC2785-HFE					A6 *1-565-497-11 CONNECTOR, BOARD TO BOARD 6P
Q109	8-729-900-36	TRANSISTOR DTC124ES					A7 *1-565-498-11 CONNECTOR, BOARD TO BOARD 7P
Q111	8-729-900-36	TRANSISTOR DTC124ES					A8 *1-565-506-11 CONNECTOR, BOARD TO BOARD 15P
Q112	8-729-900-65	TRANSISTOR DTA144ES					A9 *1-565-506-11 CONNECTOR, BOARD TO BOARD 15P
Q114	8-729-900-65	TRANSISTOR DTA144ES					A10 *1-564-596-11 PLUG, CONNECTOR 15P
							A11 *1-564-596-41 PLUG, CONNECTOR 15P
							A13 *1-568-105-11 HOUSING, CONNECTOR 10P
							A14 *1-568-105-11 HOUSING, CONNECTOR 10P
							A16 *1-560-123-00 PLUG, CONNECTOR (2.5MM) 3P
							A17 *1-565-496-11 CONNECTOR, BOARD TO BOARD 5P
							A18 *1-564-038-00 CONNECTOR PLUG, DY (MINI) 6P
							A19 *1-508-768-00 PIN, CONNECTOR (5MM PITCH) 6P
							A20 *1-564-507-11 PLUG, CONNECTOR 4P
							A22 *1-564-505-11 PLUG, CONNECTOR 2P
							<CAPACITOR>
							C300 1-123-875-11 ELECT 10MF 20% 50V
							C301 1-124-477-11 ELECT 47MF 20% 25V
							C302 1-101-884-00 CERAMIC 56PF 5% 50V
							C303 1-136-173-00 FILM 0.47MF 5% 50V
R120	1-249-417-11	CARBON	1K 5% 1/4W				
R121	1-249-405-11	CARBON	100 5% 1/4W				
R137	1-247-104-00	CARBON	75 5% 1/4W				
R139	1-249-429-11	CARBON	10K 5% 1/4W				
R143	1-249-412-11	CARBON	390 5% 1/4W				
R144	1-249-405-11	CARBON	100 5% 1/4W				
R145	1-249-436-11	CARBON	39K 5% 1/4W				
R146	1-249-435-11	CARBON	33K 5% 1/4W				
R150	1-249-405-11	CARBON	100 5% 1/4W				
R151	1-249-433-11	CARBON	22K 5% 1/4W				
R152	1-249-433-11	CARBON	22K 5% 1/4W				
R153	1-249-405-11	CARBON	100 5% 1/4W				
R156	1-249-417-11	CARBON	1K 5% 1/4W				
R157	1-249-433-11	CARBON	22K 5% 1/4W				
R158	1-249-433-11	CARBON	22K 5% 1/4W				
R161	1-249-438-11	CARBON	56K 5% 1/4W				
R162	1-249-405-11	CARBON	100 5% 1/4W				
R163	1-249-417-11	CARBON	1K 5% 1/4W				
R164	1-249-435-11	CARBON	33K 5% 1/4W				
R165	1-249-405-11	CARBON	100 5% 1/4W				
R166	1-249-433-11	CARBON	22K 5% 1/4W				
R167	1-249-433-11	CARBON	22K 5% 1/4W				
R172	1-249-405-11	CARBON	100 5% 1/4W				

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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				
C304	1-101-884-00	CERAMIC	56PF	5%	50V	C415	1-136-165-00	FILM	0.1MF	5%	50V
C305	1-136-173-00	FILM	0.47MF	5%	50V	C416	1-126-233-11	ELECT	22MF	20%	50V
C306	1-102-125-00	CERAMIC	0.0047MF	10%	50V	C417	1-136-161-00	FILM	0.047MF	5%	50V
C307	1-124-477-11	ELECT	47MF	20%	25V	C418	1-136-153-00	FILM	0.01MF	5%	50V
C308	1-124-477-11	ELECT	47MF	20%	25V	C419	1-130-479-00	MYLAR	0.0047MF	5%	50V
C309	1-102-125-00	CERAMIC	0.0047MF	10%	50V	C420	1-136-161-00	FILM	0.047MF	5%	50V
C310	1-102-125-00	CERAMIC	0.0047MF	10%	50V	C421	1-136-153-00	FILM	0.01MF	5%	50V
C311	1-102-125-00	CERAMIC	0.0047MF	10%	50V	C422	1-130-479-00	MYLAR	0.0047MF	5%	50V
C312	1-123-875-11	ELECT	10MF	20%	50V	C423	1-136-153-00	FILM	0.01MF	5%	50V
C313	1-102-074-00	CERAMIC	0.001MF	10%	50V	C424	1-130-479-00	MYLAR	0.0047MF	5%	50V
C314	1-102-074-00	CERAMIC	0.001MF	10%	50V	C425	1-124-478-11	ELECT	100MF	20%	25V
C315	1-124-927-11	ELECT	4.7MF	20%	50V	C426	1-136-161-00	FILM	0.047MF	5%	50V
C316	1-136-161-00	FILM	0.047MF	5%	50V	C427	1-124-478-11	ELECT	100MF	20%	25V
C317	1-136-161-00	FILM	0.047MF	5%	50V	C428	1-124-478-11	ELECT	100MF	20%	25V
C318	1-136-165-00	FILM	0.1MF	5%	50V	C430	1-101-888-00	CERAMIC	68PF	5%	50V
C319	1-101-004-00	CERAMIC	0.01MF		50V	C431	1-101-888-00	CERAMIC	68PF	5%	50V
C320	1-124-499-11	ELECT	1MF	20%	50V	C470	1-124-120-11	ELECT	220MF	20%	25V
C321	1-124-477-11	ELECT	47MF	20%	25V	C471	1-124-120-11	ELECT	220MF	20%	25V
C322	1-124-902-00	ELECT	0.47MF	20%	50V	C472	1-101-004-00	CERAMIC	0.01MF	50V	
C323	1-101-361-00	CERAMIC	150PF	5%	50V	C473	1-124-478-11	ELECT	100MF	20%	25V
C324	1-124-477-11	ELECT	47MF	20%	25V	C474	1-101-004-00	CERAMIC	0.01MF		50V
C325	1-101-361-00	CERAMIC	150PF	5%	50V	C475	1-101-004-00	CERAMIC	0.01MF		50V
C326	1-124-477-11	ELECT	47MF	20%	25V	C476	1-101-888-00	CERAMIC	68PF	5%	50V
C327	1-124-477-11	ELECT	47MF	20%	25V	C477	1-101-006-00	CERAMIC	0.047MF		50V
C328	1-124-009-11	ELECT	47MF	20%	25V	C478	1-101-004-00	CERAMIC	0.01MF		50V
C329	1-124-477-11	ELECT	47MF	20%	25V	C479	1-124-478-11	ELECT	100MF	20%	25V
C330	1-101-880-00	CERAMIC	47PF	5%	50V	C480	1-101-004-00	CERAMIC	0.01MF		50V
C331	1-101-004-00	CERAMIC	0.01MF		50V	C481	1-101-004-00	CERAMIC	0.01MF		50V
C332	1-102-971-00	CERAMIC	82PF	5%	50V	C482	1-124-478-11	ELECT	100MF	20%	25V
C333	1-136-165-00	FILM	0.1MF	5%	50V	C483	1-124-120-11	ELECT	220MF	20%	25V
C334	1-136-173-00	FILM	0.47MF	5%	50V	C484	1-101-004-00	CERAMIC	0.01MF		50V
C335	1-136-173-00	FILM	0.47MF	5%	50V	C485	1-124-478-11	ELECT	100MF	20%	25V
C336	1-102-971-00	CERAMIC	82PF	5%	50V	C486	1-101-004-00	CERAMIC	0.01MF		50V
C337	1-124-477-11	ELECT	47MF	20%	25V	C487	1-101-004-00	CERAMIC	0.01MF		50V
C338	1-124-477-11	ELECT	47MF	20%	25V	C488	1-124-120-11	ELECT	220MF	20%	25V
C339	1-124-477-11	ELECT	47MF	20%	25V	C489	1-124-927-11	ELECT	4.7MF	20%	50V
C340	1-124-477-11	ELECT	47MF	20%	25V	C491	1-101-004-00	CERAMIC	0.01MF		50V
C341	1-124-477-11	ELECT	47MF	20%	25V	C492	1-124-120-11	ELECT	220MF	20%	25V
C342	1-124-477-11	ELECT	47MF	20%	25V	C493	1-101-004-00	CERAMIC	0.01MF		50V
C343	1-124-477-11	ELECT	47MF	20%	25V	C494	1-124-120-11	ELECT	220MF	20%	25V
C344	1-124-477-11	ELECT	47MF	20%	25V	C495	1-101-880-00	CERAMIC	47PF	5%	50V
C345	1-102-949-00	CERAMIC	12PF	5%	50V	C496	1-124-478-11	ELECT	100MF	20%	25V
C346	1-126-233-11	ELECT	22MF	20%	50V	C497	1-124-120-11	ELECT	220MF	20%	25V
C347	1-123-875-11	ELECT	10MF	20%	50V	C498	1-124-925-11	ELECT	2.2MF	20%	50V
C348	1-101-004-00	CERAMIC	0.01MF		50V	C500	1-101-884-00	CERAMIC	56PF	5%	50V
C349	1-124-120-11	ELECT	220MF	20%	25V	C501	1-124-120-11	ELECT	220MF	20%	25V
C350	1-101-884-00	CERAMIC	56PF	5%	50V	C502	1-124-927-11	ELECT	4.7MF	20%	50V
C351	1-102-106-00	CERAMIC	100PF	10%	50V	C503	1-124-927-11	ELECT	4.7MF	20%	50V
C352	1-102-125-00	CERAMIC	0.0047MF	10%	50V	C504	1-102-114-00	CERAMIC	470PF	10%	50V
C353	1-161-021-11	CERAMIC	0.047MF	10%	25V	C505	1-123-875-11	ELECT	10MF	20%	50V
C401	1-136-153-00	FILM	0.01MF	5%	50V	C506	1-136-298-00	FILM	0.0033MF	5%	100V
C402	1-136-165-00	FILM	0.1MF	5%	50V	C507	1-106-351-00	MYLAR	0.0022MF	5%	100V
C403	1-136-165-00	FILM	0.1MF	5%	50V	C508	1-108-626-11	MYLAR	0.01MF	10%	100V
C404	1-136-169-00	FILM	0.22MF	5%	50V	C509	1-106-375-12	MYLAR	0.022MF	10%	100V
C405	1-136-169-00	FILM	0.22MF	5%	50V	C510	1-108-626-11	MYLAR	0.01MF	10%	100V
C406	1-136-169-00	FILM	0.22MF	5%	50V	C511	1-124-902-00	ELECT	0.47MF	20%	50V
C407	1-124-464-11	ELECT	0.22MF	20%	50V	C512	1-102-030-00	CERAMIC	330PF	10%	500V
C408	1-124-464-11	ELECT	0.22MF	20%	50V	C513	1-129-720-00	FILM	0.033MF	5%	630V
C409	1-124-464-11	ELECT	0.22MF	20%	50V	C514 Δ	1-136-078-11	FILM	0.0098MF	3%	2KV
C410	1-124-499-11	ELECT	1MF	20%	50V	C515 Δ	1-162-116-51	CERAMIC	680PF	10%	2KV
C411	1-124-499-11	ELECT	1MF	20%	50V	C516 Δ	1-162-116-51	CERAMIC	680PF	10%	2KV
C412	1-124-463-00	ELECT	0.1MF	20%	50V	C517	1-108-692-11	MYLAR	0.01MF	10%	200V
C413	1-124-463-00	ELECT	0.1MF	20%	50V	C518	1-126-104-11	ELECT	470MF	20%	35V

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK				
C519	1-124-120-11	ELECT	220MF	20%	25V	C584	1-126-233-11	ELECT	22MF	20%	50V
C520	1-124-494-00	ELECT	33MF		160V	C585	1-102-110-00	CERAMIC	220PF	10%	50V
C521	1-102-212-00	CERAMIC	820PF	10%	500V	C590	1-126-233-11	ELECT	22MF	20%	50V
C522	1-102-212-00	CERAMIC	820PF	10%	500V	C591	1-124-925-11	ELECT	2.2MF	20%	50V
C523	1-162-114-00	CERAMIC	0.0047MF		2KV	C801	1-101-004-00	CERAMIC	0.01MF		50V
C524	1-108-700-11	MYLAR	0.047MF	10%	200V	C802	1-101-361-00	CERAMIC	150PF	5%	50V
C525	1-108-634-11	MYLAR	0.047MF	10%	100V	C803	1-102-976-00	CERAMIC	180PF	5%	50V
C526	1-124-477-11	ELECT	47MF	20%	25V	C804	1-126-233-11	ELECT	22MF	20%	50V
C527	1-124-902-00	ELECT	0.47MF	20%	50V	C805	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C528	1-124-902-00	ELECT	0.47MF	20%	50V	C806	1-101-884-00	CERAMIC	56PF	5%	50V
C529	1-126-233-11	ELECT	22MF	20%	50V	C807	1-130-736-11	FILM	0.01MF	5%	50V
C530	1-123-875-11	ELECT	10MF	20%	50V	C808	1-124-120-11	ELECT	220MF	20%	25V
C531	1-131-351-00	TANTALUM	4.7MF	10%	35V	C809	1-101-004-00	CERAMIC	0.01MF	50V	
C532	1-123-948-00	ELECT	22MF	20%	250V	C810	1-108-620-11	MYLAR	0.0033MF	10%	100V
C533	1-136-111-00	FILM	1MF	5%	200V	C811	1-124-927-11	ELECT	4.7MF	20%	50V
C534	1-106-399-00	MYLAR	0.22MF	10%	200V	C1001	1-124-478-11	ELECT	100MF	20%	25V
C535	1-123-946-00	ELECT	4.7MF	20%	250V	C1002	1-123-875-11	ELECT	10MF	20%	50V
C536	1-136-111-00	FILM	1MF	5%	200V	C1003	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C537	1-102-002-00	CERAMIC	680PF	10%	500V	C1004	1-124-464-11	ELECT	0.22MF	20%	50V
C538	1-108-626-11	MYLAR	0.01MF	10%	100V	C1005	1-123-875-11	ELECT	10MF	20%	50V
C539	1-108-626-11	MYLAR	0.01MF	10%	100V	C1006	1-123-875-11	ELECT	10MF	20%	50V
C540	1-106-347-00	MYLAR	0.0015MF	10%	100V	C1007	1-108-634-11	MYLAR	0.047MF	10%	100V
C541	1-124-045-00	ELECT	4.7MF	20%	50V	C1008	1-124-478-11	ELECT	100MF	20%	25V
C542	1-123-875-11	ELECT	10MF	20%	50V	C1009	1-124-480-11	ELECT	470MF	20%	25V
C543	1-124-927-11	ELECT	4.7MF	20%	50V	C1010	1-124-478-11	ELECT	100MF	20%	25V
C544	1-124-190-00	ELECT	680MF	10%	25V	C1011	1-124-477-11	ELECT	47MF	20%	25V
C545	1-106-371-00	MYLAR	0.015MF	10%	200V	C1012	1-124-120-11	ELECT	220MF	20%	25V
C546	1-102-030-00	CERAMIC	330PF	10%	500V	C1013	1-124-478-11	ELECT	100MF	20%	25V
C548	1-102-030-00	CERAMIC	3.3MF	20%	160V						
C549	1-123-875-11	ELECT	10MF	20%	50V						
C550	1-102-244-00	CERAMIC	220PF	10%	500V						
C551	1-124-360-00	ELECT	1000MF	20%	16V	D302	8-719-911-19	DIODE	ISS119		
C552	1-124-499-11	ELECT	1MF	20%	50V	D303	8-719-911-19	DIODE	ISS119		
C553	1-108-626-11	MYLAR	0.01MF	10%	100V	D304	8-719-911-19	DIODE	ISS119		
C554	1-124-499-11	ELECT	1MF	20%	50V	D305	8-719-911-19	DIODE	ISS119		
C555	1-108-633-11	MYLAR	0.039MF	10%	100V	D306	8-719-911-19	DIODE	ISS119		
C556	1-136-173-00	FILM	0.47MF	5%	50V	D307	8-719-911-19	DIODE	ISS119		
C557	1-124-902-00	ELECT	0.47MF	20%	50V	D308	8-719-911-19	DIODE	ISS119		
C558	1-131-356-00	TANTALUM	3.3MF	10%	25V	D309	8-719-911-19	DIODE	ISS119		
C559	1-123-875-11	ELECT	10MF	20%	50V	D311	8-719-911-19	DIODE	ISS119		
C560	1-136-161-00	FILM	0.047MF	5%	50V	D312	8-719-911-19	DIODE	ISS119		
C561	1-102-973-00	CERAMIC	100PF	5%	50V	D313	8-719-911-19	DIODE	ISS119		
C562	1-130-471-00	FILM	0.001MF	5%	50V	D314	8-719-911-19	DIODE	ISS119		
C563	1-123-875-11	ELECT	10MF	20%	50V	D400	8-719-121-40	DIODE	RD10ES-L3		
C564	1-102-978-00	CERAMIC	220PF	5%	50V	D401	8-719-911-19	DIODE	ISS119		
C565	1-124-478-11	ELECT	100MF	20%	25V	D402	8-719-120-27	DIODE	RD4.3ES-L2		
C566	1-124-499-11	ELECT	1MF	20%	50V	D403	8-719-109-93	DIODE	RD6.2ES-B2		
C567	1-123-875-11	ELECT	10MF	20%	50V	D404	8-719-911-19	DIODE	ISS119		
C568	1-108-614-11	MYLAR	0.001MF	10%	100V	D405	8-719-911-19	DIODE	ISS119		
C569	1-130-736-11	FILM	0.01MF	5%	50V	D501	8-719-911-19	DIODE	ISS119		
C570	1-123-875-11	ELECT	10MF	20%	50V	D502	8-719-971-20	DIODE	ERC38-06		
C571	1-126-233-11	ELECT	22MF	20%	25V	D503	8-719-971-20	DIODE	ERC38-06		
C572	1-124-499-11	ELECT	1MF	20%	50V	D504	8-719-901-58	DIODE	RGP15J		
C573	1-123-875-11	ELECT	10MF	20%	50V	D505	8-719-901-58	DIODE	RGP15J		
C574	1-124-478-11	ELECT	100MF	20%	25V	D506	8-719-901-19	DIODE	V11N		
C575	1-102-978-00	CERAMIC	220PF	5%	50V	D507	8-719-945-80	DIODE	ERC06-15S		
C576	1-161-021-11	CERAMIC	0.047MF	10%	25V	D508	8-719-928-08	DIODE	ERD28-08S		
C577	1-123-875-11	ELECT	10MF	20%	50V	D509	8-719-100-35	DIODE	RD5.6E-B2		
C578	1-124-477-11	ELECT	47MF	20%	25V	D510	8-719-190-00	DIODE	RD24E-BZ7		
C579	1-124-477-11	ELECT	47MF	20%	25V	D511	8-719-200-02	DIODE	10E2		
C580	1-124-499-11	ELECT	1MF	20%	50V	D512	8-719-200-02	DIODE	10E2		
C581	1-124-478-11	ELECT	100MF	20%	25V	D513	8-719-911-19	DIODE	ISS119		
C583	1-126-233-11	ELECT	22MF	20%	50V	D514	8-719-300-76	DIODE	RH-12		

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

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
D515	8-719-300-76	DIODE RH-1Z		L503	1-410-666-31	INDUCTOR 18UH	
D516	8-719-200-02	DIODE 10E2		L504	1-407-365-00	COIL, CHOKE	
D517	8-719-911-19	DIODE ISS119		L505	1-407-365-00	COIL, CHOKE	
D518	8-719-200-02	DIODE 10E2		L506	1-408-238-00	INDUCTOR 3.9MMH	
D519	8-719-911-19	DIODE ISS119		L507	1-459-155-00	COIL (WITH CORE) 45UH	
D520	8-719-911-19	DIODE ISS119		L508	1-459-496-12	COIL, FERRITE (HLC)	
D521	8-719-911-19	DIODE ISS119		L509	1-459-106-00	COIL, DUST CORE	
D522	8-719-911-19	DIODE ISS119		L510	1-459-075-00	COIL, DYNAMIC CONVERSION CHOKE	
D523	8-719-911-19	DIODE ISS119		L511	1-459-059-00	COIL, DUST CORE	
D524	8-719-911-19	DIODE ISS119		L512	1-408-247-00	INDUCTOR 33MMH	
D526	8-719-911-19	DIODE ISS119		L513	1-459-104-00	COIL, DUST CORE	
D527	8-719-911-19	DIODE ISS119		L514	1-410-686-11	INDUCTOR 1MMH	
D528	8-719-911-19	DIODE ISS119		L515	1-410-510-11	INDUCTOR 12UH	
D529	8-719-911-19	DIODE ISS119		L801	1-410-470-11	INDUCTOR 10UH	
D530	8-719-901-83	DIODE ISS83		L802	1-410-089-21	INDUCTOR 15MMH	
D531	8-719-911-19	DIODE ISS119					
D801	8-719-911-19	DIODE ISS119					
D802	8-719-911-19	DIODE ISS119					
D1001	8-719-911-19	DIODE ISS119					
D1002	8-719-911-19	DIODE ISS119		NL501	1-519-108-XX	LAMP, NEON	
D1003	8-719-911-19	DIODE ISS119					
D1010	8-719-120-64	DIODE RD5.6ES-L1					
D1011	8-719-110-08	DIODE RD8.2ES-B2					
D1012	8-719-911-55	DIODE U05G		Q300	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D1013	8-719-110-37	DIODE RD13ES-B3		Q301	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D1014	8-719-936-56	DIODE DAN209S		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	
DL301	1-415-633-11	DELAY LINE, Y		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	
IC301	8-759-204-21	IC TA7193P		Q312	8-729-119-78	TRANSISTOR 2SC2785-HFE	
IC302	1-808-627-11	ACC BLOCK ACC-1		Q313	8-729-119-78	TRANSISTOR 2SC2785-HFE	
IC303	8-759-710-31	IC NJM2243S		Q314	8-729-900-65	TRANSISTOR DTA144ES	
IC304	1-235-534-11	CONTROL MODULE, PICTURE					
IC305	8-749-920-72	IC BX-7573		Q315	8-729-900-89	TRANSISTOR DTC144ES	
				Q316	8-729-900-89	TRANSISTOR DTC144ES	
IC306	8-759-420-08	IC AN5613		Q317	8-729-900-89	TRANSISTOR DTC144ES	
IC307	1-808-629-11	MODULE, BLUE ONLY BOM-1		Q318	8-729-119-78	TRANSISTOR 2SC2785-HFE	
IC308	1-808-626-11	MODULE, GAIN/BIAS GBM-1		Q319	8-729-119-78	TRANSISTOR 2SC2785-HFE	
IC309	8-759-240-52	IC TC4052BP					
IC311	8-759-800-81	IC LA7016		Q320	8-729-119-76	TRANSISTOR 2SA1175-HFE	
				Q321	8-729-119-76	TRANSISTOR 2SA1175-HFE	
IC312	8-759-800-81	IC LA7016		Q322	8-729-900-89	TRANSISTOR DTC144ES	
IC401	8-752-030-31	IC CXA1024S		Q323	8-729-900-89	TRANSISTOR DTC144ES	
IC501	8-759-100-60	IC UPC1377C		Q324	8-729-119-76	TRANSISTOR 2SA1175-HFE	
IC502	8-759-145-58	IC UPC4558C					
IC503	8-749-920-74	IC BX7574		Q325	8-729-119-78	TRANSISTOR 2SC2785-HFE	
				Q326	8-729-119-78	TRANSISTOR 2SC2785-HFE	
IC504	8-759-345-38	IC HD14538BP		Q327	8-729-119-78	TRANSISTOR 2SC2785-HFE	
IC505	8-759-700-06	IC NJM7812B		Q328	8-729-119-76	TRANSISTOR 2SA1175-HFE	
IC1001	8-759-420-04	IC AN5265		Q329	8-729-119-78	TRANSISTOR 2SC2785-HFE	
				Q330	8-729-119-78	TRANSISTOR 2SC2785-HFE	
				Q331	8-729-119-76	TRANSISTOR 2SA1175-HFE	
L300	1-410-470-11	INDUCTOR 10UH		Q332	8-729-119-78	TRANSISTOR 2SC2785-HFE	
L301	1-410-470-11	INDUCTOR 10UH		Q333	8-729-119-78	TRANSISTOR 2SC2785-HFE	
L302	1-410-470-11	INDUCTOR 10UH		Q334	8-729-119-76	TRANSISTOR 2SA1175-HFE	
L303	1-410-471-11	INDUCTOR 12UH					
L304	1-408-406-00	INDUCTOR 5.6UH		Q335	8-729-119-76	TRANSISTOR 2SA1175-HFE	
				Q336	8-729-119-76	TRANSISTOR 2SA1175-HFE	
L306	1-410-470-11	INDUCTOR 10UH		Q337	8-729-119-78	TRANSISTOR 2SC2785-HFE	
L307	1-408-406-00	INDUCTOR 5.6UH		Q338	8-729-900-89	TRANSISTOR DTC144ES	
L495	1-421-013-00	COIL, (HORIZONTAL CHOKE) 25UH		Q400	8-729-177-33	TRANSISTOR 2SD773-4	
L501	1-459-155-00	COIL (WITH CORE) 45UH					
L502	1-410-671-31	INDUCTOR 47UH		Q401	8-729-900-36	TRANSISTOR DTC124ES	

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<RESISTOR>							
Q402	8-729-900-36	TRANSISTOR DTC124ES		R300	1-249-405-11	CARBON	100 5% 1/4W
Q403	8-729-119-76	TRANSISTOR 2SA1175-HFE		R301	1-249-405-11	CARBON	100 5% 1/4W
Q404	8-729-119-78	TRANSISTOR 2SC2785-HFE		R302	1-247-721-11	CARBON	4.7K 5% 1/4W
Q405	8-729-119-78	TRANSISTOR 2SC2785-HFE		R303	1-249-426-11	CARBON	5.6K 5% 1/4W
Q406	8-729-119-78	TRANSISTOR 2SC2785-HFE		R304	1-249-421-11	CARBON	2.2K 5% 1/4W
Q407	8-729-119-78	TRANSISTOR 2SC2785-HFE		R305	1-249-429-11	CARBON	10K 5% 1/4W
Q408	8-729-119-78	TRANSISTOR 2SC2785-HFE		R306	1-249-405-11	CARBON	100 5% 1/4W
Q409	8-729-119-78	TRANSISTOR 2SC2785-HFE		R307	1-247-887-00	CARBON	220K 5% 1/4W
Q410	8-729-900-89	TRANSISTOR DTC144ES		R308	1-249-429-11	CARBON	10K 5% 1/4W
Q411	8-729-900-89	TRANSISTOR DTC144ES		R309	1-249-405-11	CARBON	100 5% 1/4W
Q412	8-729-119-76	TRANSISTOR 2SA1175-HFE		R310	1-247-887-00	CARBON	220K 5% 1/4W
Q413	8-729-119-78	TRANSISTOR 2SC2785-HFE		R311	1-249-435-11	CARBON	33K 5% 1/4W
Q414	8-729-119-78	TRANSISTOR 2SC2785-HFE		R312	1-249-431-11	CARBON	15K 5% 1/4W
Q415	8-729-900-36	TRANSISTOR DTC124ES		R313	1-249-405-11	CARBON	100 5% 1/4W
Q416	8-729-900-36	TRANSISTOR DTC124ES		R314	1-249-405-11	CARBON	100 5% 1/4W
Q501	8-729-800-35	TRANSISTOR 2SD1397-CA		R315	1-249-413-11	CARBON	470 5% 1/4W
Q502	8-729-119-80	TRANSISTOR 2SC2688-K		R316	1-249-413-11	CARBON	470 5% 1/4W
Q503	8-729-119-78	TRANSISTOR 2SC2785-HFE		R317	1-249-414-11	CARBON	560 5% 1/4W
Q504	8-729-119-76	TRANSISTOR 2SA1175-HFE		R318	1-249-422-11	CARBON	2.7K 5% 1/4W
Q505	8-729-309-08	TRANSISTOR 2SC1890A		R319	1-249-416-11	CARBON	820 5% 1/4W
Q506	8-729-119-78	TRANSISTOR 2SC2785-HFE		R320	1-249-415-11	CARBON	680 5% 1/4W
Q507	8-729-313-42	TRANSISTOR 2SD1134-C		R321	1-249-411-11	CARBON	330 5% 1/4W
Q508	8-729-119-78	TRANSISTOR 2SC2785-HFE		R322	1-249-409-11	CARBON	220 5% 1/4W
Q509	8-729-195-82	TRANSISTOR 2SC2958-L		R323	1-249-409-11	CARBON	220 5% 1/4W
Q510	8-729-122-03	TRANSISTOR 2SA1220A-Q		R324	1-249-417-11	CARBON	1K 5% 1/4W
Q511	8-729-169-02	TRANSISTOR 2SC2690A-Q		R325	1-249-405-11	CARBON	100 5% 1/4W
Q512	8-729-119-76	TRANSISTOR 2SA1175-HFE		R326	1-249-409-11	CARBON	220 5% 1/4W
Q513	8-729-900-63	TRANSISTOR DTA124ES		R327	1-249-417-11	CARBON	1K 5% 1/4W
Q514	8-729-900-36	TRANSISTOR DTC124ES		R328	1-249-434-11	CARBON	27K 5% 1/4W
Q515	8-729-900-36	TRANSISTOR DTC124ES		R329	1-249-433-11	CARBON	22K 5% 1/4W
Q516	8-729-119-76	TRANSISTOR 2SA1175-HFE		R330	1-249-433-11	CARBON	22K 5% 1/4W
Q517	8-729-119-78	TRANSISTOR 2SC2785-HFE		R331	1-249-433-11	CARBON	22K 5% 1/4W
Q518	8-729-119-78	TRANSISTOR 2SC2785-HFE		R332	1-249-405-11	CARBON	100 5% 1/4W
Q519	8-729-900-36	TRANSISTOR DTC124ES		R333	1-249-435-11	CARBON	33K 5% 1/4W
Q520	8-729-900-63	TRANSISTOR DTA124ES		R334	1-249-432-11	CARBON	18K 5% 1/4W
Q521	8-729-119-78	TRANSISTOR 2SC2785-HFE		R335	1-247-700-11	CARBON	100 5% 1/4W
Q522	8-729-119-78	TRANSISTOR 2SC2785-HFE		R336	1-249-417-11	CARBON	1K 5% 1/4W
Q523	8-729-900-36	TRANSISTOR DTC124ES		R337	1-249-410-11	CARBON	270 5% 1/4W
Q524	8-729-900-63	TRANSISTOR DTA124ES		R338	1-249-421-11	CARBON	2.2K 5% 1/4W
Q525	8-729-900-36	TRANSISTOR DTC124ES		R339	1-249-405-11	CARBON	100 5% 1/4W
Q526	8-729-119-76	TRANSISTOR 2SA1175-HFE		R340	1-249-434-11	CARBON	27K 5% 1/4W
Q528	8-729-119-78	TRANSISTOR 2SC2785-HFE		R341	1-249-434-11	CARBON	27K 5% 1/4W
Q529	8-729-119-78	TRANSISTOR 2SC2785-HFE		R342	1-249-418-11	CARBON	1.2K 5% 1/4W
Q531	8-729-119-78	TRANSISTOR 2SC2785-HFE		R343	1-249-440-11	CARBON	82K 5% 1/4W
Q532	8-729-119-76	TRANSISTOR 2SA1175-HFE		R344	1-249-428-11	CARBON	8.2K 5% 1/4W
Q533	8-729-119-76	TRANSISTOR 2SA1175-HFE		R345	1-249-416-11	CARBON	820 5% 1/4W
Q534	8-729-119-76	TRANSISTOR 2SA1175-HFE		R346	1-249-416-11	CARBON	820 5% 1/4W
Q550	8-729-119-78	TRANSISTOR 2SC2785-HFE		R347	1-249-421-11	CARBON	2.2K 5% 1/4W
Q551	8-729-119-78	TRANSISTOR 2SC2785-HFE		R348	1-249-421-11	CARBON	2.2K 5% 1/4W
Q801	8-729-119-78	TRANSISTOR 2SC2785-HFE		R349	1-249-417-11	CARBON	1K 5% 1/4W
Q802	8-729-119-76	TRANSISTOR 2SA1175-HFE		R350	1-249-425-11	CARBON	4.7K 5% 1/4W
Q803	8-729-119-78	TRANSISTOR 2SC2785-HFE		R351	1-249-421-11	CARBON	2.2K 5% 1/4W
Q804	8-729-119-78	TRANSISTOR 2SC2785-HFE		R352	1-247-891-00	CARBON	330K 5% 1/4W
Q805	8-729-119-76	TRANSISTOR 2SA1175-HFE		R353	1-249-428-11	CARBON	8.2K 5% 1/4W
Q806	8-729-900-36	TRANSISTOR DTC124ES		R354	1-249-424-11	CARBON	3.9K 5% 1/4W
Q807	8-729-119-78	TRANSISTOR 2SC2785-HFE		R355	1-249-434-11	CARBON	27K 5% 1/4W
Q1001	8-729-119-76	TRANSISTOR 2SA1175-HFE		R356	1-249-437-11	CARBON	47K 5% 1/4W
Q1002	8-729-119-76	TRANSISTOR 2SA1175-HFE		R357	1-249-437-11	CARBON	47K 5% 1/4W
Q1003	8-729-177-42	TRANSISTOR 2SD774-3		R358	1-249-433-11	CARBON	22K 5% 1/4W
Q1004	8-729-177-42	TRANSISTOR 2SD774-3		R359	1-249-417-11	CARBON	1K 5% 1/4W
Q1005	8-729-122-03	TRANSISTOR 2SA1220A-P		R360	1-249-413-11	CARBON	470 5% 1/4W
Q1006	8-729-119-78	TRANSISTOR 2SC2785-HFE					

PVM-1440QM/1442QM/1444QM

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
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	1-249-432-11	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	1-249-428-11	CARBON	8.2K 5% 1/4W	R441	1-249-421-11	CARBON	2.2K 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	R444	1-249-419-11	CARBON	1.5K 5% 1/4W
R381	1-249-431-11	CARBON	15K 5% 1/4W	R445	1-249-417-11	CARBON	1K 5% 1/4W
R382	1-249-408-11	CARBON	180 5% 1/4W	R446	1-249-422-11	CARBON	2.7K 5% 1/4W
R383	1-249-413-11	CARBON	470 5% 1/4W	R447	1-249-429-11	CARBON	10K 5% 1/4W
R384	1-249-413-11	CARBON	470 5% 1/4W	R448	1-247-883-00	CARBON	150K 5% 1/4W
R385	1-249-411-11	CARBON	330 5% 1/4W	R449	1-249-462-11	CARBON	22K 5% 1/4W
R386	1-249-415-11	CARBON	680 5% 1/4W	R450	1-249-409-11	CARBON	220 5% 1/4W
R387	1-249-405-11	CARBON	100 5% 1/4W	R451	1-247-704-11	CARBON	220 5% 1/4W
R388	1-249-423-11	CARBON	3.3K 5% 1/4W	R452	1-249-409-11	CARBON	220 5% 1/4W
R389	1-249-417-11	CARBON	1K 5% 1/4W	R453	1-247-704-11	CARBON	220 5% 1/4W
R390	1-249-433-11	CARBON	22K 5% 1/4W	R454	1-249-417-11	CARBON	1K 5% 1/4W
R391	1-249-433-11	CARBON	22K 5% 1/4W	R455	1-249-409-11	CARBON	220 5% 1/4W
R392	1-249-433-11	CARBON	22K 5% 1/4W	R456	1-249-409-11	CARBON	220 5% 1/4W
R393	1-249-403-11	CARBON	68 5% 1/4W	R457	1-249-409-11	CARBON	220 5% 1/4W
R394	1-249-409-11	CARBON	220 5% 1/4W	R458	1-249-433-11	CARBON	22K 5% 1/4W
R395	1-249-417-11	CARBON	1K 5% 1/4W	R459	1-249-425-11	CARBON	4.7K 5% 1/4W
R396	1-249-433-11	CARBON	22K 5% 1/4W	R460	1-249-425-11	CARBON	4.7K 5% 1/4W
R397	1-249-405-11	CARBON	100 5% 1/4W	R461	1-249-433-11	CARBON	22K 5% 1/4W
R398	1-249-405-11	CARBON	100 5% 1/4W	R462	1-249-386-11	CARBON	2.7 5% 1/4W F
R399	1-247-718-11	CARBON	2.7K 5% 1/4W	R464	1-259-881-11	CARBON	2.7M 5% 1/4W
R400	1-249-413-11	CARBON	470 5% 1/4W	R465	1-249-465-11	CARBON	47K 5% 1/4W
R401	1-249-413-11	CARBON	470 5% 1/4W	R466	1-249-421-11	CARBON	2.2K 5% 1/4W
R402	1-249-416-11	CARBON	820 5% 1/4W	R467	1-249-431-11	CARBON	15K 5% 1/4W
R403	1-249-411-11	CARBON	330 5% 1/4W	R468	1-249-431-11	CARBON	15K 5% 1/4W
R404	1-249-405-11	CARBON	100 5% 1/4W	R469	1-247-897-11	CARBON	560K 5% 1/4W
R405	1-249-422-11	CARBON	2.7K 5% 1/4W	R470	1-249-437-11	CARBON	47K 5% 1/4W
R406	1-249-413-11	CARBON	470 5% 1/4W	R471	1-249-429-11	CARBON	10K 5% 1/4W
R407	1-249-413-11	CARBON	470 5% 1/4W	R472	1-249-417-11	CARBON	1K 5% 1/4W
R408	1-249-416-11	CARBON	820 5% 1/4W				
R409	1-249-411-11	CARBON	330 5% 1/4W				
R410	1-249-405-11	CARBON	100 5% 1/4W				
R411	1-249-422-11	CARBON	2.7K 5% 1/4W				
R412	1-249-419-11	CARBON	1.5K 5% 1/4W				
R413	1-249-417-11	CARBON	1K 5% 1/4W				
R414	1-249-429-11	CARBON	10K 5% 1/4W				
R415	1-249-417-11	CARBON	1K 5% 1/4W				
R416	1-249-429-11	CARBON	10K 5% 1/4W				
R417	1-249-421-11	CARBON	2.2K 5% 1/4W				
R418	1-249-439-11	CARBON	68K 5% 1/4W				
R419	1-249-433-11	CARBON	22K 5% 1/4W				
R420	1-249-426-11	CARBON	5.6K 5% 1/4W				
R421	1-249-437-11	CARBON	47K 5% 1/4W				
R422	1-249-437-11	CARBON	47K 5% 1/4W				
R423	1-249-405-11	CARBON	100 5% 1/4W				
R424	1-249-437-11	CARBON	47K 5% 1/4W				

* : Selected to yield optimum performance.

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R473	1-249-437-11	CARBON	47K 5% 1/4W	R521	1-215-445-00	METAL	10K 1% 1/6W
R474	1-249-429-11	CARBON	10K 5% 1/4W	R522	1-247-887-00	CARBON	220K 5% 1/4W
R475	1-249-417-11	CARBON	1K 5% 1/4W	R523	1-215-439-00	METAL	5.6K 1% 1/6W
R476	1-249-401-11	CARBON	47 5% 1/4W	R524	1-249-469-11	CARBON	100K 5% 1/4W
R477	1-249-417-11	CARBON	1K 5% 1/4W	R525	1-215-445-00	METAL	10K 1% 1/6W
R478	1-249-401-11	CARBON	47 5% 1/4W	R526	1-215-442-00	METAL	7.5K 1% 1/6W
R479	1-249-417-11	CARBON	1K 5% 1/4W	R527	1-249-417-11	CARBON	1K 5% 1/4W
R480	1-249-401-11	CARBON	47 5% 1/4W	R528	1-215-877-11	METAL OXIDE	22K 5% 1W F
R481	1-249-433-11	CARBON	22K 5% 1/4W	R529	1-216-360-11	METAL OXIDE	8.2 5% 1W F
R482	1-249-433-11	CARBON	22K 5% 1/4W	R530	1-216-427-00	METAL OXIDE	120 5% 1W F
R483	1-249-433-11	CARBON	22K 5% 1/4W	R531	1-247-756-11	CARBON	2.2K 5% 1/2W F
R484	1-247-891-00	CARBON	330K 5% 1/4W	R532	1-249-436-11	CARBON	39K 5% 1/4W
R485	1-247-891-00	CARBON	330K 5% 1/4W	R533	1-249-422-11	CARBON	2.7K 5% 1/4W
R486	1-249-433-11	CARBON	22K 5% 1/4W	R534	1-247-719-11	CARBON	3.3K 5% 1/4W
R487	1-249-433-11	CARBON	22K 5% 1/4W	R535	1-215-441-00	METAL	6.8K 1% 1/6W
R488	1-249-418-11	CARBON	1.2K 5% 1/4W F	R536	1-249-433-11	CARBON	22K 5% 1/4W
R489	1-249-421-11	CARBON	2.2K 5% 1/4W	R537	1-249-417-11	CARBON	1K 5% 1/4W F
R490	1-247-895-00	CARBON	470K 5% 1/4W	R538	1-249-428-11	CARBON	8.2K 5% 1/4W
R491	1-249-420-11	CARBON	1.8K 5% 1/4W	R539	1-247-883-00	CARBON	150K 5% 1/4W
R492	1-249-417-11	CARBON	1K 5% 1/4W	R540	1-249-466-11	CARBON	56K 5% 1/4W
R493	1-249-441-11	CARBON	100K 5% 1/4W	R541	1-247-883-00	CARBON	150K 5% 1/4W
R494	1-249-413-11	CARBON	470 5% 1/4W	R542	1-249-438-11	CARBON	56K 5% 1/4W
R495	1-249-433-11	CARBON	22K 5% 1/4W	R543	1-247-903-00	CARBON	1M 5% 1/4W
R496	1-249-433-11	CARBON	22K 5% 1/4W	R544	1-215-453-00	METAL	22K 1% 1/6W
R497	1-249-437-11	CARBON	47K 5% 1/4W	R545	1-249-417-11	CARBON	1K 5% 1/4W
R498	1-249-433-11	CARBON	22K 5% 1/4W	R546	1-249-411-11	CARBON	330 5% 1/4W
R499	1-249-433-11	CARBON	22K 5% 1/4W	R547	1-249-414-11	CARBON	560 5% 1/4W
*R500	1-215-451-00	METAL	18K 1% 1/6W	R548	1-249-415-11	CARBON	680 5% 1/4W
*R500	1-215-452-00	METAL	20K 1% 1/6W	R549	1-215-473-00	METAL	150K 1% 1/6W
*R500	1-215-453-00	METAL	22K 1% 1/6W	R550	1-249-433-11	CARBON	22K 5% 1/4W
*R500	1-215-454-00	METAL	24K 1% 1/6W	R551	1-247-688-11	CARBON	10 5% 1/4W F
*R500	1-215-455-00	METAL	27K 1% 1/6W	R552	1-249-425-11	CARBON	4.7K 5% 1/4W
*R500	1-215-456-00	METAL	30K 1% 1/6W	R553	1-249-429-11	CARBON	10K 5% 1/4W
*R500	1-215-457-00	METAL	33K 1% 1/6W	R554	1-249-460-11	CARBON	15K 5% 1/4W
*R500	1-215-458-00	METAL	36K 1% 1/6W	R555	1-249-426-11	CARBON	5.6K 5% 1/4W
*R500	1-215-459-00	METAL	39K 1% 1/6W	R556	1-247-707-11	CARBON	390 5% 1/4W
*R500	1-215-460-00	METAL	43K 1% 1/6W	R557	1-215-463-00	METAL	56K 1% 1/6W
*R500	1-215-461-00	METAL	47K 1% 1/6W	R558	1-215-457-00	METAL	33K 1% 1/6W
*R500	1-215-462-00	METAL	51K 1% 1/6W	R559	1-215-453-00	METAL	22K 1% 1/6W
*R500	1-215-463-00	METAL	56K 1% 1/6W	R560	1-215-479-00	METAL	270K 1% 1/6W
*R500	1-215-464-00	METAL	62K 1% 1/6W	R561	1-249-435-11	CARBON	33K 5% 1/4W
*R500	1-215-465-00	METAL	68K 1% 1/6W	R562	1-249-422-11	CARBON	2.7K 5% 1/4W
*R500	1-215-466-00	METAL	75K 1% 1/6W	R563	1-249-428-11	CARBON	8.2K 5% 1/4W
*R500	1-215-467-00	METAL	82K 1% 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	1-249-424-11	CARBON	3.9K 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	1-249-434-11	CARBON	27K 5% 1/4W	R571	1-215-867-00	METAL OXIDE	470 5% 1W F
R508	1-247-723-11	CARBON	6.8K 5% 1/4W F	R572	1-216-355-11	METAL OXIDE	3.3 5% 1W F
R509	1-249-423-11	CARBON	3.3K 5% 1/4W F	R573	1-247-746-11	CARBON	390 5% 1/2W
R510	1-215-919-11	METAL OXIDE	2.2K 5% 3W F	R574	1-249-425-11	CARBON	4.7K 5% 1/4W F
R511	1-215-447-00	METAL	12K 1% 1/6W	R575	1-247-688-11	CARBON	10 5% 1/4W F
R512	1-212-883-00	FUSIBLE	120 5% 1/4W F	R576	1-249-440-11	CARBON	82K 5% 1/4W
R513	1-249-383-11	CARBON	1.5 5% 1/4W F	R577	1-249-396-11	CARBON	18 5% 1/4W
R514	1-216-367-11	METAL OXIDE	0.68 5% 2W F	R578	1-249-433-11	CARBON	22K 5% 1/4W
R515	1-216-434-11	METAL OXIDE	1.8K 5% 1W F	R579	1-249-433-11	CARBON	22K 5% 1/4W
R516	1-214-888-00	METAL	10K 1% 1/2W	R580	1-249-433-11	CARBON	22K 5% 1/4W
R517	1-214-763-00	METAL	27K 1% 1/4W	R581	1-249-429-11	CARBON	10K 5% 1/4W
R518	1-214-956-00	METAL	470K 1% 1/4W	R582	1-249-429-11	CARBON	10K 5% 1/4W
R519	1-214-917-00	METAL	150K 1% 1/2W	R583	1-249-438-11	CARBON	56K 5% 1/4W
R520	1-215-467-00	METAL	82K 1% 1/6W				

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R584	1-247-881-00	CARBON	120K 5% 1/4W	R851	1-249-439-11	CARBON	68K 5% 1/4W
R585	1-249-433-11	CARBON	22K 5% 1/4W	R852	1-249-437-11	CARBON	47K 5% 1/4W
R586	1-215-449-00	METAL	15K 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	1-215-437-00	METAL	4.7K 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	1-215-443-00	METAL	8.2K 1% 1/6W	R870	1-249-426-11	CARBON	5.6K 5% 1/4W
R801	1-249-440-11	CARBON	82K 5% 1/4W	R871	1-249-427-11	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	1-249-415-11	CARBON	680 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	1-215-471-00	METAL	120K 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	1-247-704-11	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	1-212-857-00	FUSIBLE	10 5% 1/4W F
R835	1-247-889-00	CARBON	270K 5% 1/4W	R1020	1-249-429-11	CARBON	10K 5% 1/4W
R836	1-247-897-11	CARBON	560K 5% 1/4W	R1021	1-249-434-11	CARBON	27K 5% 1/4W
R837	1-215-469-00	METAL	100K 1% 1/6W	R1022	1-249-428-11	CARBON	8.2K 5% 1/4W
R838	1-246-531-00	CARBON	270K 5% 1/4W	R1023	1-249-428-11	CARBON	8.2K 5% 1/4W
R840	1-247-696-11	CARBON	47 5% 1/4W	R1024	1-247-903-00	CARBON	1M 5% 1/4W
R842	1-249-409-11	CARBON	220 5% 1/4W	R1025	1-249-429-11	CARBON	10K 5% 1/4W
R843	1-247-704-11	CARBON	220 5% 1/4W	R1026	1-249-429-11	CARBON	10K 5% 1/4W
R844	1-249-417-11	CARBON	1K 5% 1/4W	R1027	1-215-454-00	METAL	24K 1% 1/6W
R845	1-247-725-11	CARBON	10K 5% 1/4W	R1301	1-249-429-11	CARBON	10K 5% 1/4W
R846	1-215-439-00	METAL	5.6K 1% 1/6W	R1302	1-247-725-11	CARBON	10K 5% 1/4W
R847	1-249-433-11	CARBON	22K 5% 1/4W	R1303	1-249-429-11	CARBON	10K 5% 1/4W
R848	1-249-433-11	CARBON	22K 5% 1/4W	R1304	1-249-405-11	CARBON	100 5% 1/4W
R850	1-249-440-11	CARBON	82K 5% 1/4W				

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

A**C**

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK				
R1306	1-247-700-11	CARBON	100 5% 1/4W	C717	1-162-116-00	CERAMIC	680PF 10% 2KV				
R1307	1-249-421-11	CARBON	2.2K 5% 1/4W	C718	1-162-115-00	CERAMIC	330PF 10% 2KV				
<VARIABLE RESISTOR>											
RV002	1-228-993-00	RES, ADJ, CARBON 4.7K		C720	1-162-116-00	CERAMIC	680PF 10% 2KV				
RV003	1-228-993-00	RES, ADJ, CARBON 4.7K		C721	1-162-116-00	CERAMIC	680PF 10% 2KV				
RV004	1-228-993-00	RES, ADJ, CARBON 4.7K		C722	1-162-116-00	CERAMIC	680PF 10% 2KV				
RV005	1-228-996-00	RES, ADJ, CARBON 47K		<DIODE>							
RV006	1-228-994-00	RES, ADJ, CARBON 10K		D701	8-719-911-19	DIODE	ISS119				
RV007	1-228-994-00	RES, ADJ, CARBON 10K		D702	8-719-911-19	DIODE	ISS119				
RV401	1-228-994-00	RES, ADJ, CARBON 10K		D703	8-719-911-19	DIODE	ISS119				
RV501	1-228-993-00	RES, ADJ, METAL GLAZE 4.7K		D704	8-719-911-19	DIODE	ISS119				
RV502	1-223-102-00	RES, ADJ, WIREWOUND 120		D705	8-719-911-19	DIODE	ISS119				
RV503	1-228-996-00	RES, ADJ, METAL GLAZE 47K		D706	8-719-911-19	DIODE	ISS119				
RV504	1-228-990-00	RES, ADJ, CARBON 1K		D707	8-719-901-83	DIODE	ISS83				
RV505	1-228-995-00	RES, ADJ, CARBON 22K		D708	8-719-901-83	DIODE	ISS83				
RV506	1-228-989-00	RES, ADJ, CARBON 470		D709	8-719-901-83	DIODE	ISS83				
RV507	1-224-250-XX	RES, ADJ, METAL GLAZE 2.2K		D713	8-719-901-83	DIODE	ISS83				
RV508	1-228-994-00	RES, ADJ, CARBON 10K		D715	8-719-901-83	DIODE	ISS83				
RV509	1-228-998-00	RES, ADJ, CARBON 220K		D716	8-719-901-83	DIODE	ISS83				
RV510	1-228-996-00	RES, ADJ, CARBON 47K		D717	8-719-901-83	DIODE	ISS83				
RV511	1-228-989-00	RBS, ADJ, CARBON 470		<FILTER>							
RV512	1-228-995-00	RES, ADJ, CARBON 22K		FL701	1-236-058-11	ENCAPSULATED COMPONENT					
RV513	1-228-993-00	RES, ADJ, METAL GLAZE 4.7K		FL702	1-236-058-11	ENCAPSULATED COMPONENT					
RV514	1-228-996-00	RES, ADJ, CARBON 47K		FL703	1-236-058-11	ENCAPSULATED COMPONENT					
RV550	1-228-993-00	RES, ADJ, CARBON 4.7K		<TRANSISTOR>							
<TRANSFORMER>											
T501	Δ .1-439-395-12	TRANSFORMER ASSY, FLYBACK		Q701	8-729-119-78	TRANSISTOR	2SC2785-HFE				
T502	1-437-131-00	TRANSFORMER, DRIVE		Q702	8-729-119-78	TRANSISTOR	2SC2785-HFE				
<THERMISTOR>											
TH501	1-806-110-00	THERMISTOR		Q703	8-729-119-78	TRANSISTOR	2SC2785-HFE				

*A-1330-986-A C BOARD, COMPLETE				Q704	8-729-200-17	TRANSISTOR	2SA1091				
*****				Q705	8-729-200-17	TRANSISTOR	2SA1091				

A.1-526-819-11 SOCKET, PICTURE TUBE				Q706	8-729-200-17	TRANSISTOR	2SA1091				
*4-374-912-01 COVER (MAIN), CV VOL				Q707	8-729-326-11	TRANSISTOR	2SC2611				
*4-374-913-01 COVER (REAR LID), CV VOL				Q708	8-729-326-11	TRANSISTOR	2SC2611				

<CONNECTOR>											
C1	*1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P		Q709	8-729-255-12	TRANSISTOR	2SC2551				
C2	*1-506-371-00	PIN, CONNECTOR 2P		Q710	8-729-200-17	TRANSISTOR	2SA1091				
C3	*1-564-513-11	PLUG, CONNECTOR 10P		<RESISTOR>							

<CAPACITOR>											
C701	1-102-115-00	CERAMIC	560PF 10% 50V	R702	1-215-480-00	METAL	300K 1% 1/6W				
C702	1-102-115-00	CERAMIC	560PF 10% 50V	R704	1-215-408-00	METAL	300 1% 1/6W				
C703	1-102-115-00	CERAMIC	560PF 10% 50V	R705	1-249-410-11	CARBON	270 5% 1/4W				
C704	1-102-121-00	CERAMIC	0.0022MF 10% 50V	R706	1-249-410-11	CARBON	270 5% 1/4W				
C705	1-123-875-11	ELECT	10MF 20% 50V	R707	1-249-420-11	CARBON	1.8K 5% 1/4W				

C706	1-102-074-00	CERAMIC	0.001MF 10% 50V	R708	1-249-419-11	CARBON	1.5K 5% 1/4W				
C707	1-162-116-00	CERAMIC	680PF 10% 2KV	R709	1-249-420-11	CARBON	1.8K 5% 1/4W				
C708	1-130-338-11	FILM	0.01MF 10% 630V	R710	1-249-397-11	CARBON	22 5% 1/4W				
C713	1-108-704-11	MYLAR	0.1MF 10% 200V	R711	1-249-397-11	CARBON	22 5% 1/4W				
C714	1-102-116-00	CERAMIC	680PF 10% 50V	R712	1-249-397-11	CARBON	22 5% 1/4W				

C715	1-102-116-00	CERAMIC	680PF 10% 50V	R715	1-202-818-00	SOLID	1K 10% 1/2W				
C716	1-102-116-00	CERAMIC	680PF 10% 50V	R716	1-216-486-00	METAL OXIDE	8.2K 5% 3W F				

R717	1-202-818-00	SOLID	1K 10% 1/2W	R718	1-216-486-00	METAL OXIDE	8.2K 5% 3W F				

C **V**

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R719	1-202-818-00	SOLID	1K 10% 1/2W				
R720	1-216-486-00	METAL OXIDE	8.2K 5% 3W	F			
R721	1-216-372-11	METAL OXIDE	1.8 5% 2W	F			
R722	1-202-848-00	SOLID	680K 10% 1/2W				
R723	1-202-838-00	SOLID	100K 10% 1/2W				
R724	1-202-842-11	SOLID	220K 10% 1/2W				
R725	1-202-719-00	SOLID	1M 10% 1/2W				
R731	1-249-409-11	CARBON	220 5% 1/4W				
R732	1-249-409-11	CARBON	220 5% 1/4W				
R733	1-249-409-11	CARBON	220 5% 1/4W				
R734	1-249-409-11	CARBON	220 5% 1/4W	F			
R735	1-249-409-11	CARBON	220 5% 1/4W	F			
R736	1-249-409-11	CARBON	220 5% 1/4W	F			
R737	1-249-405-11	CARBON	100 5% 1/4W				
R738	1-249-405-11	CARBON	100 5% 1/4W				
R739	1-249-405-11	CARBON	100 5% 1/4W				
R740	1-249-429-11	CARBON	10K 5% 1/4W	F			
R741	1-249-429-11	CARBON	10K 5% 1/4W	F			
R742	1-249-429-11	CARBON	10K 5% 1/4W	F			
R743	1-249-441-11	CARBON	100K 5% 1/4W	F			
R744	1-249-429-11	CARBON	10K 5% 1/4W				
R745	1-249-429-11	CARBON	10K 5% 1/4W				
R746	1-215-902-11	METAL OXIDE	47K 5% 1W	F			
R747	1-247-725-11	CARBON	10K 5% 1/4W	F			
R748	1-247-713-11	CARBON	1K 5% 1/4W	F			
R749	1-215-902-11	METAL OXIDE	47K 5% 2W	F			
R750	1-249-400-11	CARBON	39 5% 1/4W	F			
R751	1-247-887-00	CARBON	220K 5% 1/4W				
R752	1-247-887-00	CARBON	220K 5% 1/4W				
R753	1-247-887-00	CARBON	220K 5% 1/4W				
<VARIABLE RESISTOR>							
RV707	1-230-641-11	RES, ADJ, METAL GLAZE	2.2M				
RV708	1-230-798-11	RES, ADJ, METAL GLAZE	90M				
RV709	1-230-641-11	RES, ADJ, METAL GLAZE	2.2M				

*I-629-148-11 V BOARD							

<CAPACITOR>							
C1700	1-124-120-11	ELECT	220MF	20%	25V	R1725	1-247-891-00
C1701	1-101-004-00	CERAMIC	0.01MF			R1726	1-247-891-00
C1702	1-102-978-00	CERAMIC	220PF	5%	50V	R1727	1-249-437-11
C1703	1-102-978-00	CERAMIC	220PF	5%	50V	R1728	1-249-437-11
C1705	1-124-499-11	ELECT	1MF	20%	50V	R1729	1-249-405-11
C1706	1-124-499-11	ELECT	1MF	20%	50V	R1730	1-249-405-11
C1707	1-124-120-11	ELECT	220MF	20%	25V	R1731	1-249-417-11
C1710	1-101-884-00	CERAMIC	56PF	5%	50V	R1732	1-249-417-11
C1711	1-101-884-00	CERAMIC	56PF	5%	50V	R1733	1-249-409-11
<DIODE>							
D1700	8-719-911-19	DIODE	ISS119			R1750	1-249-423-11
D1701	8-719-936-56	DIODE	DAN209S				CARBON 3.3K 5% 1/4W
D1702	8-719-936-56	DIODE	DAN209S				
D1703	8-719-936-56	DIODE	DAN209S				
D1704	8-719-936-56	DIODE	DAN209S				
D1705	8-719-933-28	DIODE	DAP209S				
D1706	8-719-933-28	DIODE	DAP209S				
D1707	8-719-911-19	DIODE	ISS119				
D1708	8-719-911-19	DIODE	ISS119				
<VARIABLE RESISTOR>							
RV1700	1-228-995-00	RES, ADJ,	CARBON	22K			
RV1701	1-228-995-00	RES, ADJ,	CARBON	22K			
RV1702	1-228-995-00	RES, ADJ,	CARBON	22K			
RV1703	1-228-995-00	RES, ADJ,	CARBON	22K			
RV1704	1-237-524-21	RES, ADJ,	CARBON	1M			
RV1705	1-228-999-00	RES, ADJ,	CARBON	470K			
RV1706	1-228-999-00	RES, ADJ,	CARBON	470K			

For Service Manuals
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 8 Cherry Tree Road, Chinnor
 Oxfordshire, OX9 4QY.
 Tel (01844) 351694
 Fax (01844) 352554
 email:- mauritron@dial.pipex.com

V

W

Y

J

XA

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK				
RV1707	1-237-524-21	RES, ADJ, CARBON 1M		W1	*1-565-482-11	CONNECTOR, BOARD TO BOARD 6P					
RV1708	1-228-995-00	RES, ADJ, CARBON 22K		W2	*1-564-506-11	PLUG, CONNECTOR 3P					
RV1709	1-228-995-00	RES, ADJ, CARBON 22K									
RV1710	1-228-995-00	RES, ADJ, CARBON 22K									

<CONNECTOR>											
V1	*1-563-720-11	SOCKET, CONNECTOR (PC BOARD) 9P									
V2	*1-563-720-11	SOCKET, CONNECTOR (PC BOARD) 9P									

*1-629-149-11 W BOARD											

<CAPACITOR>											
C1400	1-136-169-00	FILM	0.22MF	5%	50V	C1500	1-124-499-11	ELECT	1MF	20%	50V
C1401	1-136-153-00	FILM	0.01MF	5%	50V	C1501	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C1402	1-124-478-11	ELECT	100MF	20%	25V						
C1403	1-102-074-00	CERAMIC	0.001MF	10%	50V						
C1404	1-124-478-11	ELECT	100MF	20%	25V						
C1405	1-123-875-11	ELECT	10MF	20%	50V						
C1406	1-124-902-00	ELECT	0.47MF	20%	50V						

<DIODE>											
D1400	8-719-911-19	DIODE ISS119									
D1401	8-719-911-19	DIODE ISS119									

<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	R1500	1-249-437-11	CARBON	47K	5%	1/4W
R1401	1-249-415-11	CARBON	680	5%	1/4W	R1501	1-249-437-11	CARBON	47K	5%	1/4W
R1402	1-247-895-00	CARBON	470K	5%	1/4W	R1502	1-249-437-11	CARBON	47K	5%	1/4W
R1403	1-247-903-00	CARBON	1M	5%	1/4W	R1503	1-249-429-11	CARBON	10K	5%	1/4W
R1404	1-249-438-11	CARBON	56K	5%	1/4W	R1504	1-249-437-11	CARBON	47K	5%	1/4W
R1405	1-249-433-11	CARBON	22K	5%	1/4W	R1505	1-249-437-11	CARBON	47K	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						

<CONNECTOR>											
W1	*1-565-481-11	CONNECTOR, BOARD TO BOARD 5P									

*1-629-153-11 J BOARD											

<CONNECTOR>											
J1	*1-568-106-11	PIN, CONNECTOR 7P									

*1-629-151-11 XA BOARD											

<CAPACITOR>											
C1300	1-101-005-00	CERAMIC	0.022MF								
C1301	1-101-888-00	CERAMIC	68PF	5%	50V						
C1302	1-101-884-00	CERAMIC	56PF	5%	50V						
C1303	1-102-942-00	CERAMIC	5PF	1PF	50V						
C1304	1-102-947-00	CERAMIC	10PF	0.5PF	50V						
C1305	1-102-947-00	CERAMIC	10PF	0.5PF	50V						
C1306	1-102-951-00	CERAMIC	15PF	5%	50V						
C1307	1-102-951-00	CERAMIC	15PF	5%	50V						
C1308	1-124-478-11	ELECT	100MF	20%	25V						
C1309	1-102-125-00	CERAMIC	0.0047MF	10%	50V						



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		
<TRIMMER>									
CV3	1-141-337-11	CAP, VAR., TRIMMER		Q1601	8-729-119-78	TRANSISTOR 2SC2785-HFE			
CV4	1-141-337-11	CAP, VAR., TRIMMER		Q1602	8-729-119-78	TRANSISTOR 2SC2785-HFE			
<COIL>									
L1300	1-408-429-00	INDUCTOR	470UH	R1600	1-247-897-11	CARBON	560K 5% 1/4W		
L1301	1-408-429-00	INDUCTOR	470UH	R1601	1-249-415-11	CARBON	680 5% 1/4W		
L1302	1-408-429-00	INDUCTOR	470UH	R1602	1-249-413-11	CARBON	470 5% 1/4W		
L1303	1-408-429-00	INDUCTOR	470UH	R1603	1-249-403-11	CARBON	68 5% 1/4W		
				R1604	1-249-428-11	CARBON	8.2K 5% 1/4W		
<TRANSISTOR>									
Q1300	8-729-119-78	TRANSISTOR 2SC2785-HFE		R1605	1-249-415-11	CARBON	680 5% 1/4W		
Q1301	8-729-900-89	TRANSISTOR DTC144ES		R1606	1-249-413-11	CARBON	470 5% 1/4W		
Q1302	8-729-119-78	TRANSISTOR 2SC2785-HFE		R1607	1-249-428-11	CARBON	8.2K 5% 1/4W		
Q1303	8-729-119-78	TRANSISTOR 2SC2785-HFE		R1608	1-247-895-00	CARBON	470K 5% 1/4W		
Q1304	8-729-119-78	TRANSISTOR 2SC2785-HFE		R1609	1-247-897-11	CARBON	560K 5% 1/4W		
Q1305	8-729-119-78	TRANSISTOR 2SC2785-HFE		R1610	1-249-437-11	CARBON	47K 5% 1/4W		
<RESISTOR>									
R1301	1-249-413-11	CARBON	470 5% 1/4W	<CONNECTOR>					
R1302	1-249-415-11	CARBON	680 5% 1/4W	U1	*1-565-483-11	CONNECTOR, BOARD TO BOARD 7P			
R1303	1-249-415-11	CARBON	680 5% 1/4W	*****					
R1304	1-249-427-11	CARBON	6.8K 5% 1/4W	MISCELLANEOUS					
R1305	1-249-413-11	CARBON	470 5% 1/4W	*****					
R1306	1-249-413-11	CARBON	470 5% 1/4W	SPEAKER					
R1308	1-249-417-11	CARBON	1K 5% 1/4W	△ 1-237-614-12 RESISTOR ASSY, HIGH-VOLTAGE					
R1310	1-249-441-11	CARBON	100K 5% 1/4W	△ 1-426-145-13 COIL, DEGAUSSING					
R1311	1-249-441-11	CARBON	100K 5% 1/4W	S901 △ 1-554-967-12 SWITCH, PUSH (AC POWER) (1 KEY)					
R1312	1-249-441-11	CARBON	100K 5% 1/4W	△ 1-451-329-11 DEFLECTION YOKE (Y14FZA)					
R1313	1-249-441-11	CARBON	100K 5% 1/4W	1-452-032-00 MAGNET, DISK; 10MM Ø					
R1320	1-249-429-11	CARBON	10K 5% 1/4W	1-452-094-00 MAGNET, ROTATABLE DISK; 15MM Ø					
R1321	1-249-429-11	CARBON	10K 5% 1/4W	1-452-277-00 MAGNET, BMC					
R1322	1-249-429-11	CARBON	10K 5% 1/4W	1-466-076-11 CONTROL UNIT (PVM-1442QM ONLY)					
R1323	1-249-429-11	CARBON	10K 5% 1/4W	1-466-075-11 CONTROL UNIT (PVM-1444QM ONLY)					
<CRYSTAL>									
X358	1-567-505-11	OSCILLATOR, CRYSTAL		1-466-113-11 CONTROL UNIT (PVM-1440QM ONLY)					
X443	1-567-504-11	OSCILLATOR, CRYSTAL		1-543-604-11 CORE, RING					
<CONNECTOR>									
XA1	*1-565-483-11	CONNECTOR, BOARD TO BOARD 7P		△1-574-389-12 CORD. POWER (WITH CONNECTOR)					

*1-629-219-11 U BOARD (PVM-1440QM ONLY)									

<CAPACITOR>									
C1600	1-124-477-11	ELECT	47MF 20% 25V	ACCESORIES AND PACKING MATERIALS					
C1601	1-124-478-11	ELECT	100MF 20% 25V	*****					
C1602	1-124-902-00	ELECT	0.47MF 20% 50V	PART NO.					
C1603	1-124-499-11	ELECT	1MF 20% 50V	DESCRIPTION					
<IC>									
IC1600 8-759-913-11 IC CX20125									
<TRANSISTOR>									
Q1600 8-729-119-76 TRANSISTOR 2SA1175-HFE									
9-964-215-01									

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Display Products Group

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PVM-1440QM/1442QM/1444QM

SONY[®]
SERVICE MANUAL

AEP Model

PVM-1440QM

Serial No. 2,002,901 and later

Chassis No. SCC-C57A-A

PVM-1442QM

Serial No. 2,003,251 and later

Chassis No. SCC-C56A-A

PVM-1444QM

Serial No. 2,001,601 and later

Chassis No. SCC-C55A-A

SUPPLEMENT-1

File this Supplement with the Service Manual.

INTRODUCTION

A and W boards modification

 : Indicate modification portion

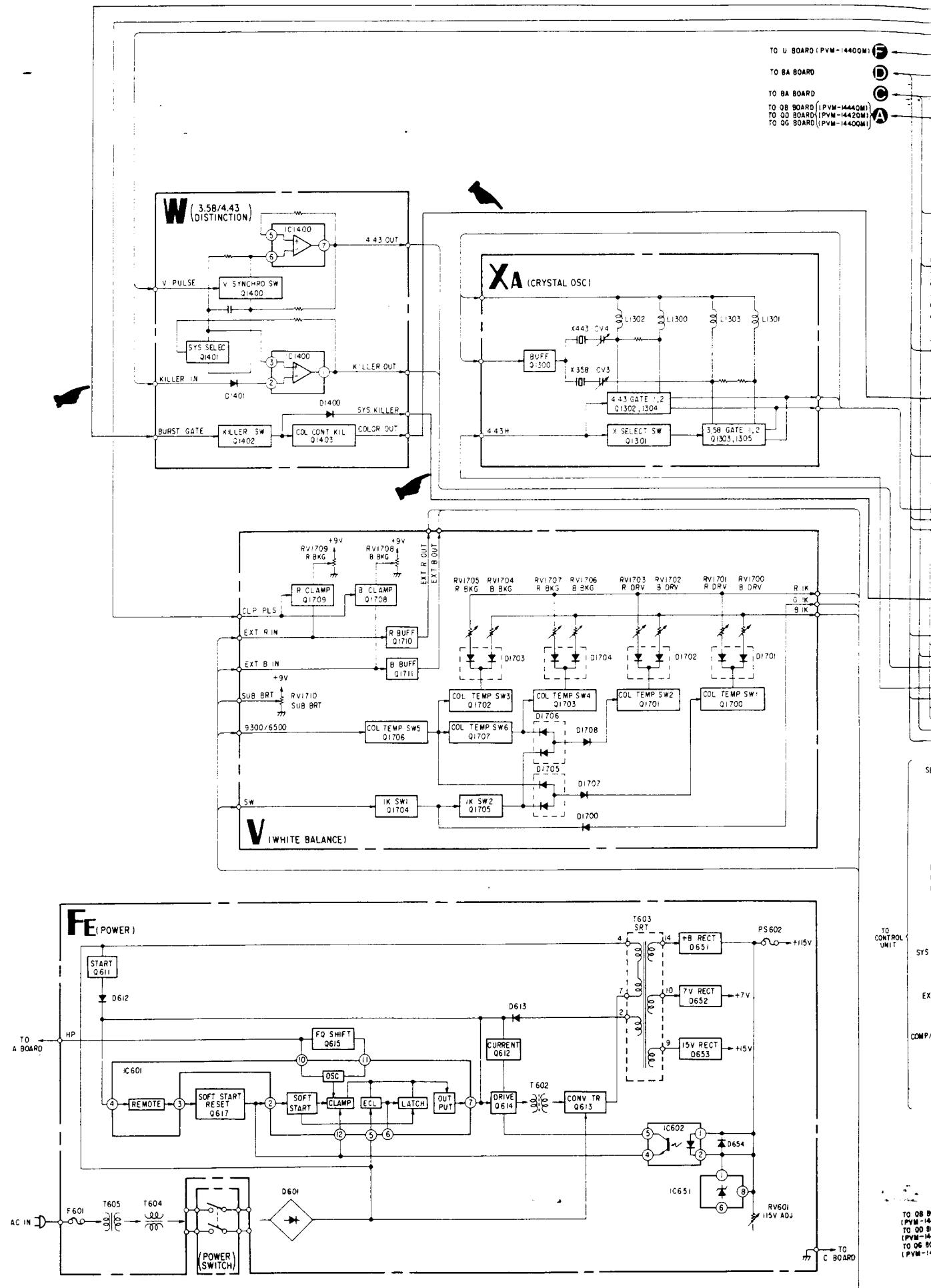


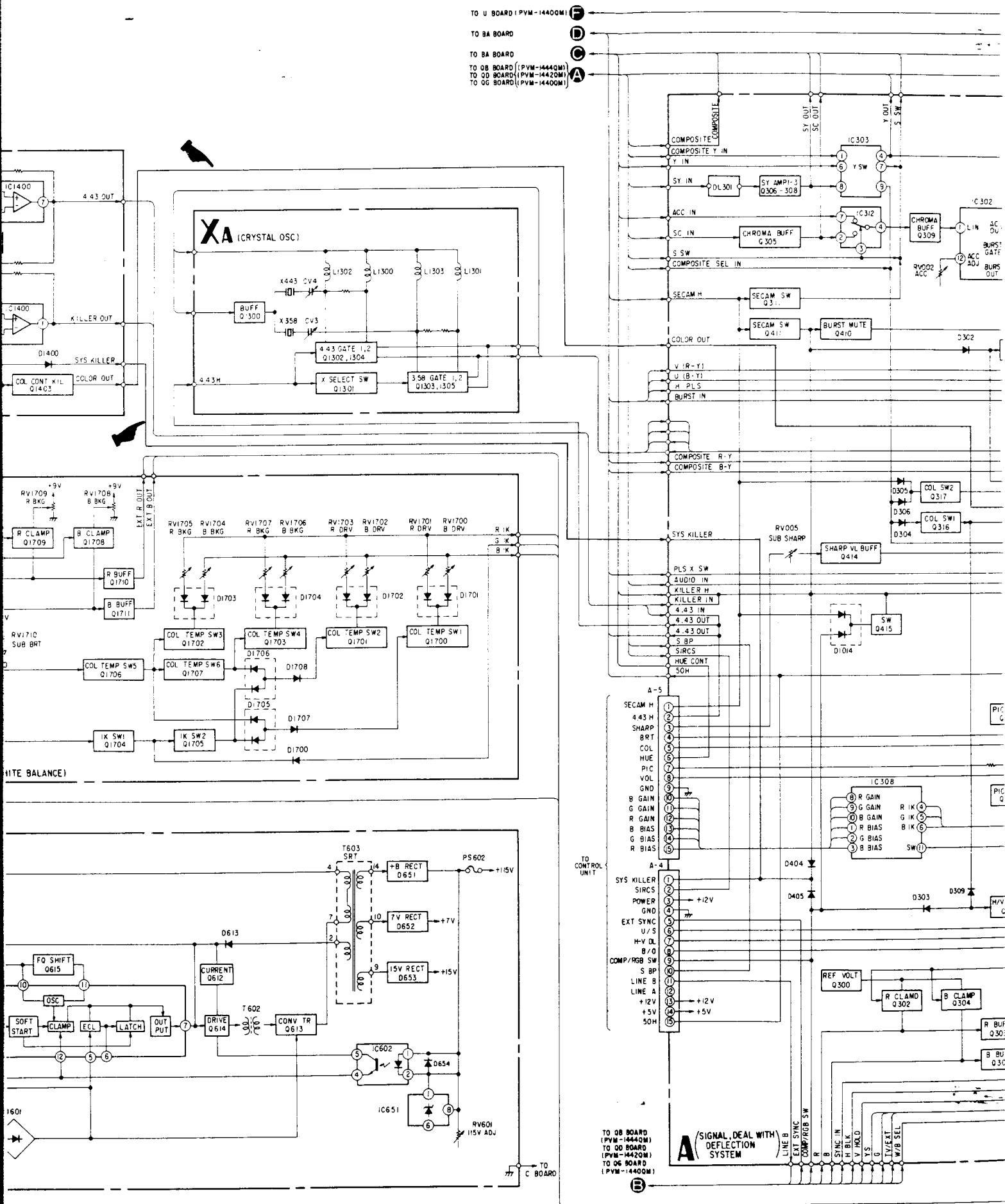
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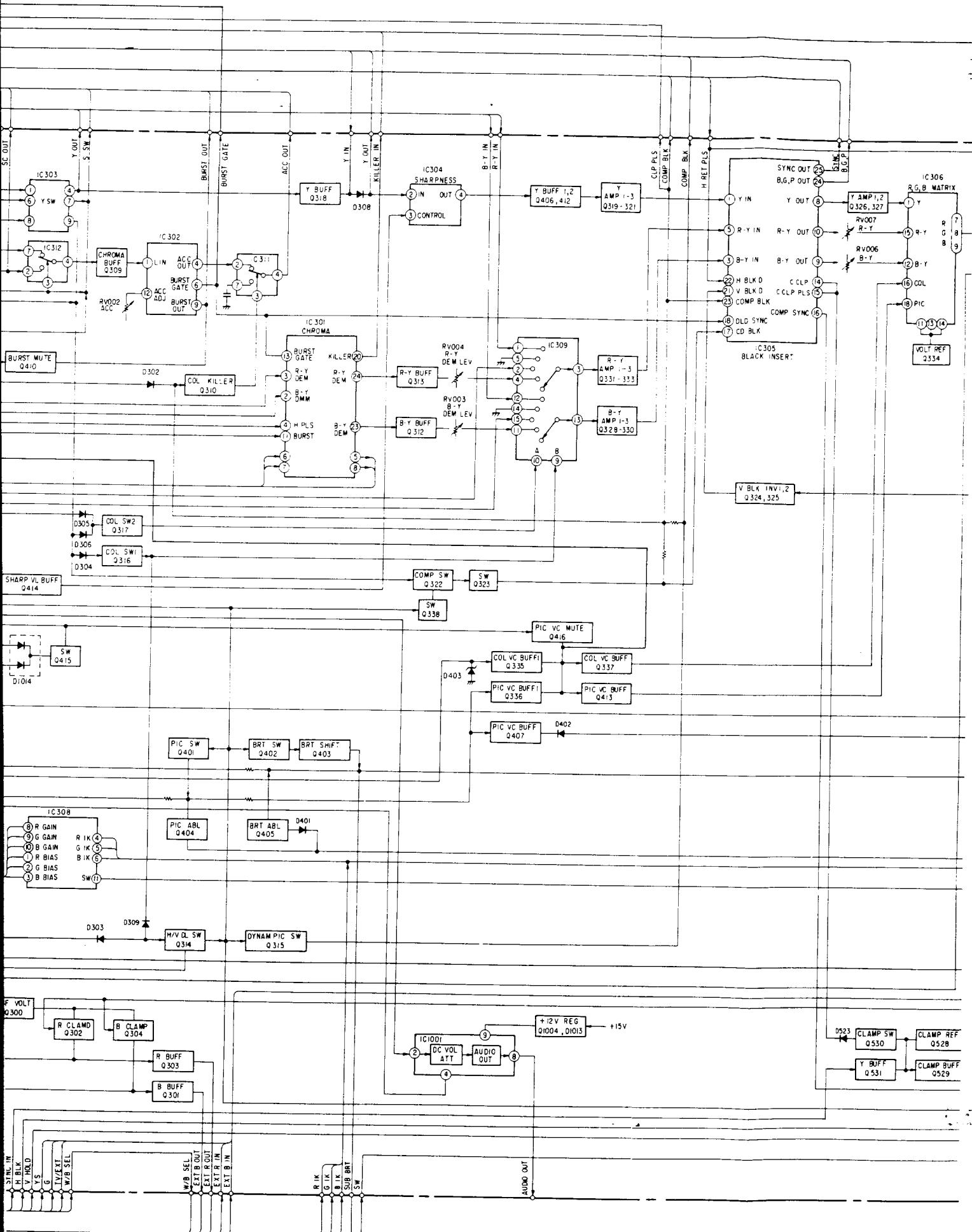
TABLE OF CONTENTS

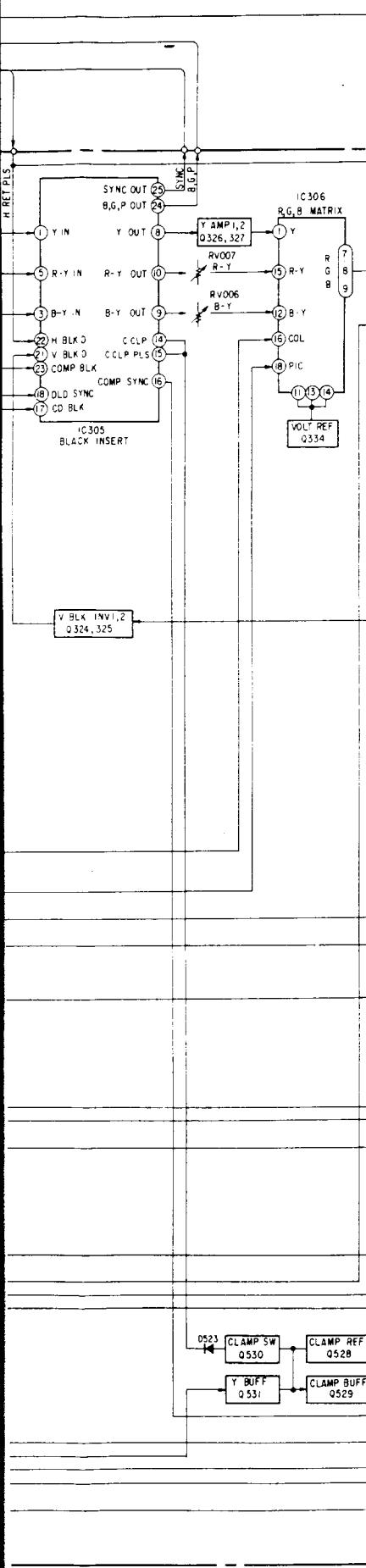
6. DIAGRAMS	
6-2. Block Diagrams.....	3
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6-3. Printed Wiring Boards.....	9
7. EXPLODED VIEWS	
7-1. Chassis.....	11
8. ELECTRICAL PARTS LIST	12

6-2. BLOCK DIAGRAMS Page 31~32



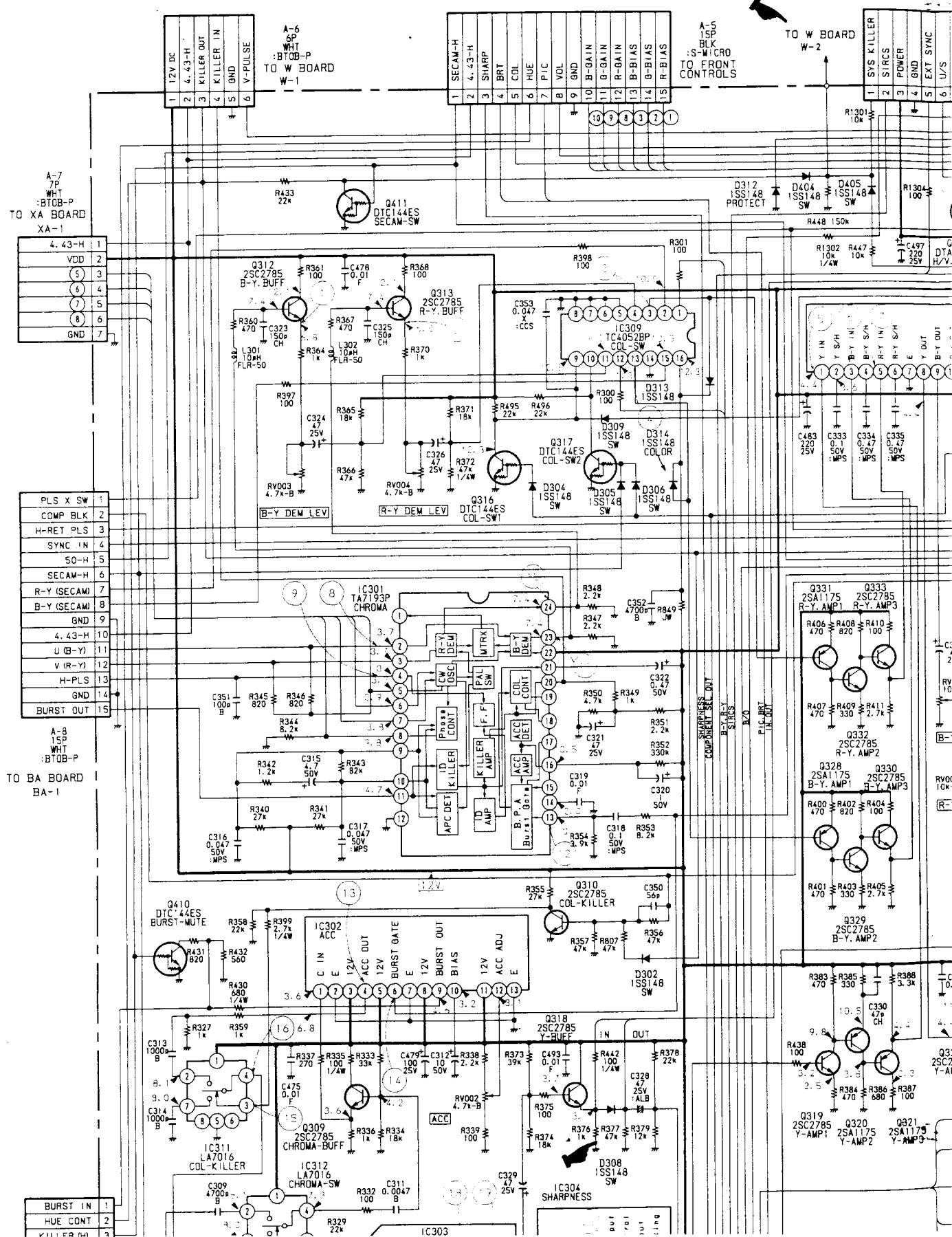


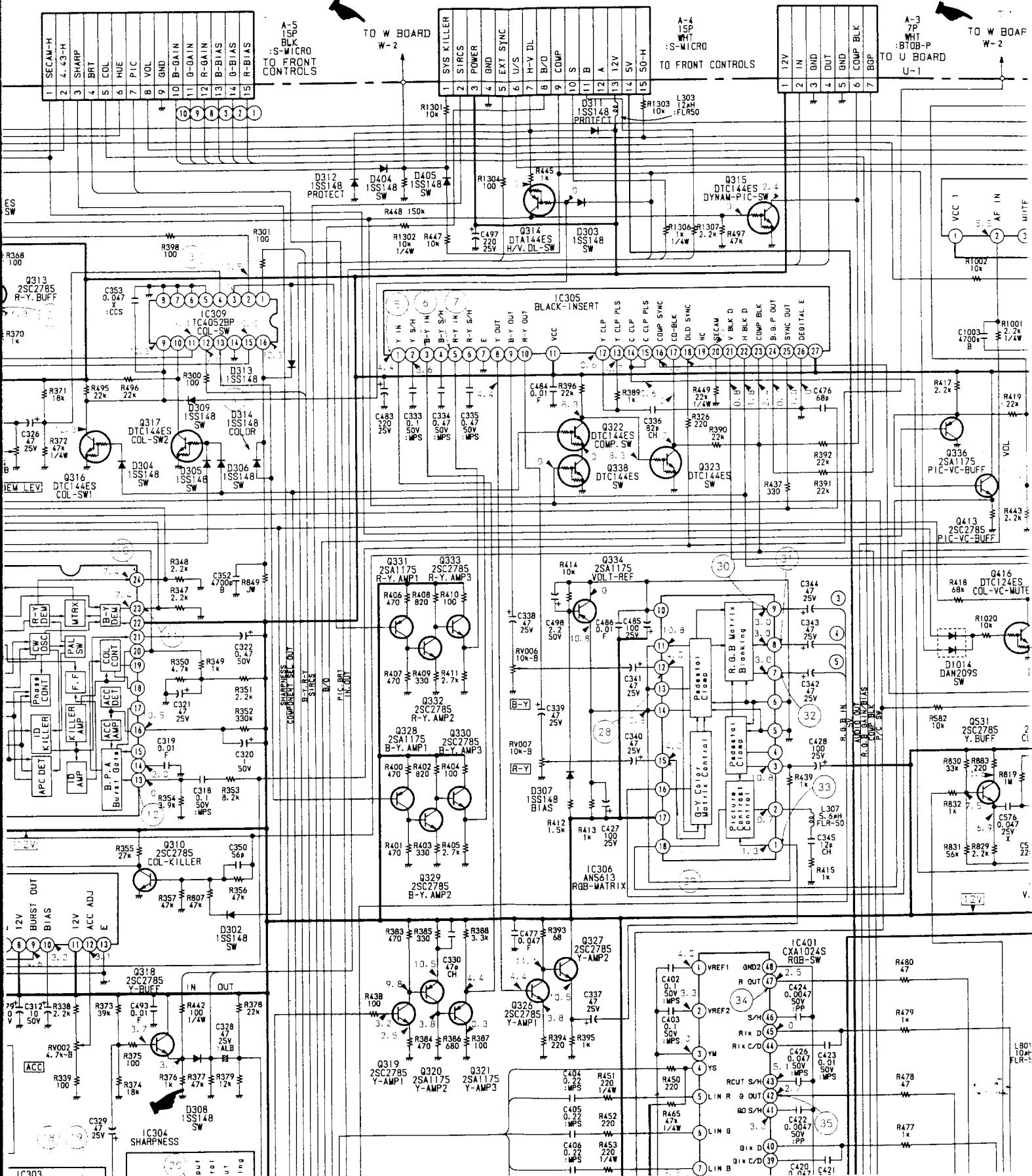


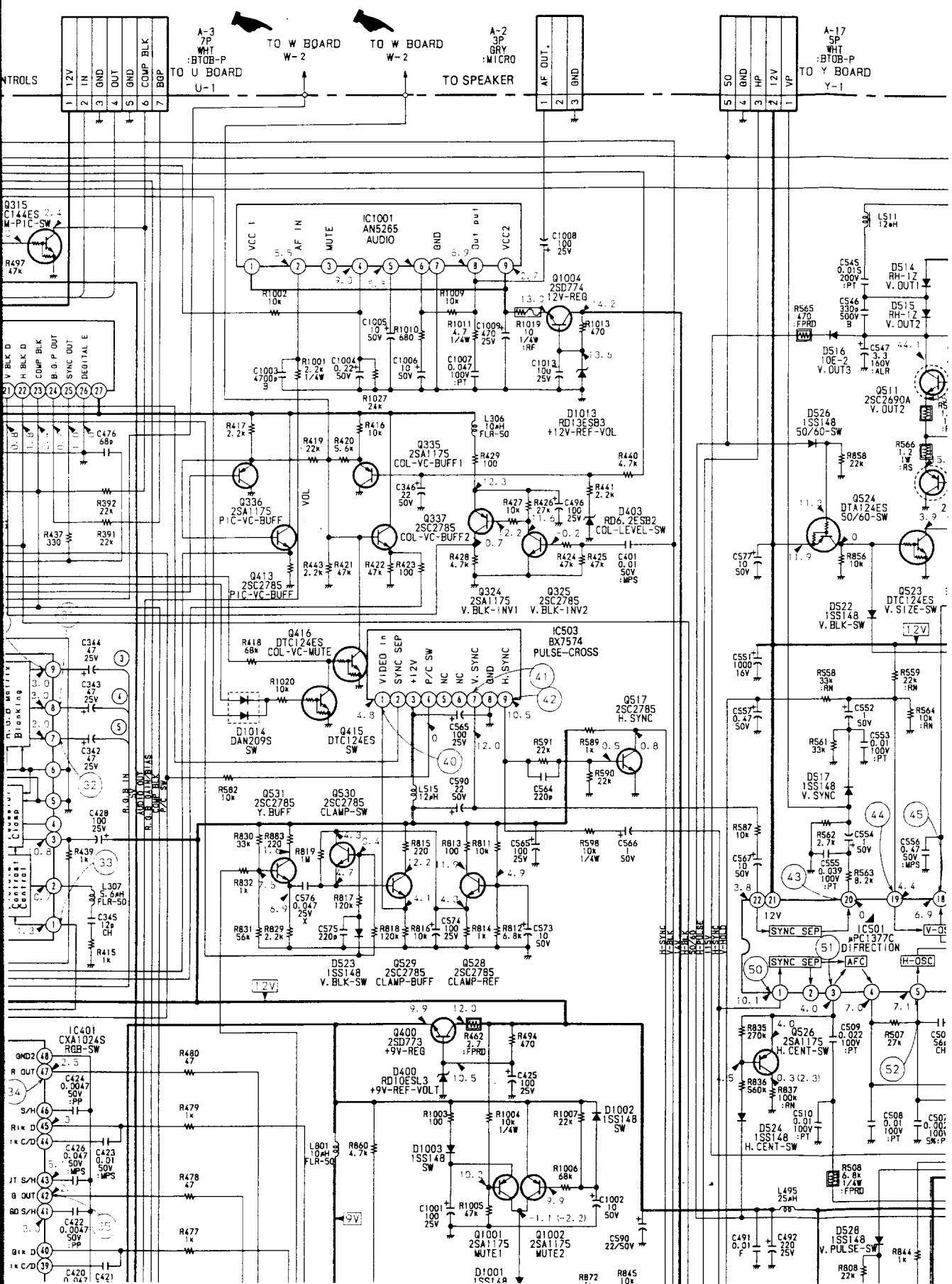


PVM-1440QM/1442QM/1444QM

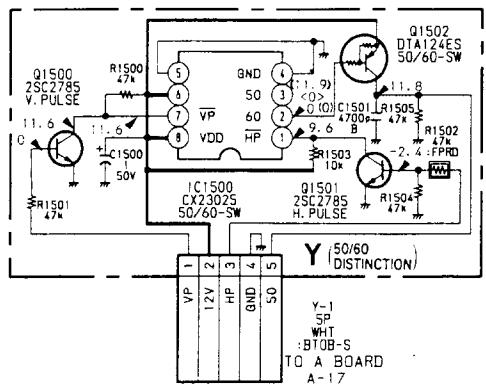
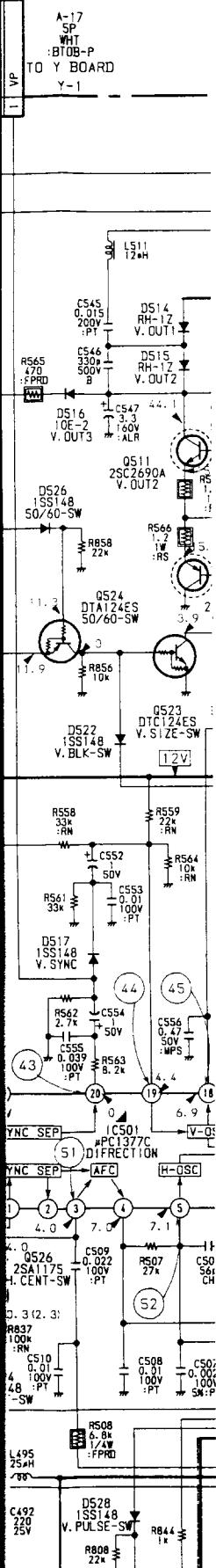
6-5. SCHEMATIC DIAGRAM Page 42-45



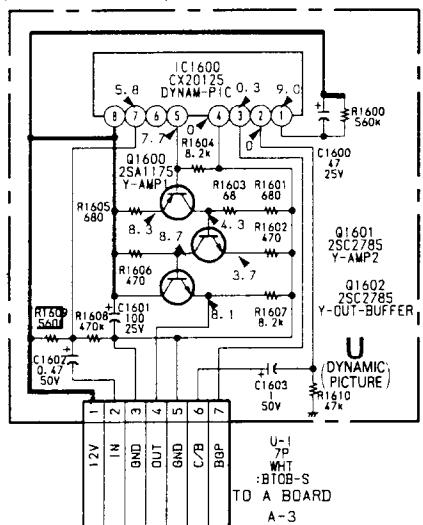




PVM-1440QM/1442QM/1444QM

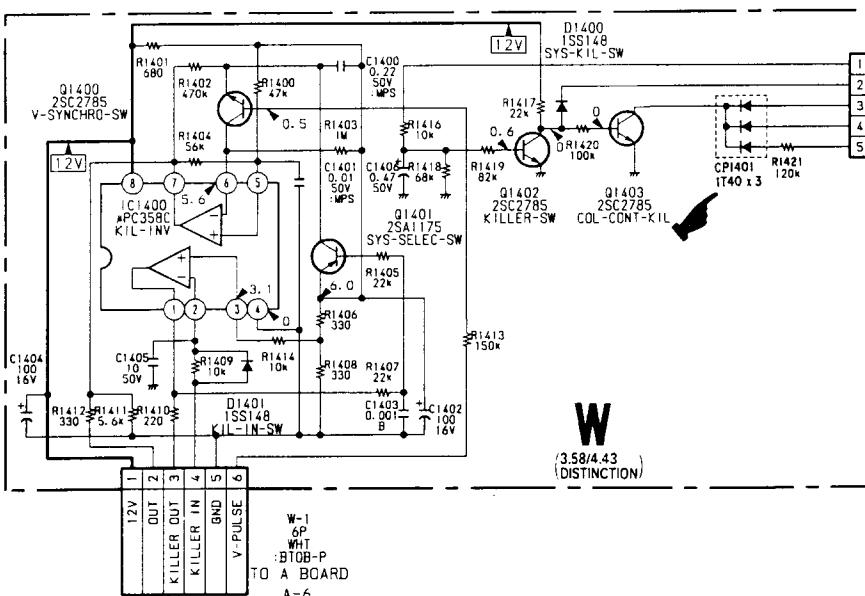


(PVM-1440QM)



U-1
7P
WHT
BTOB-S
TO A BOARD
A-3

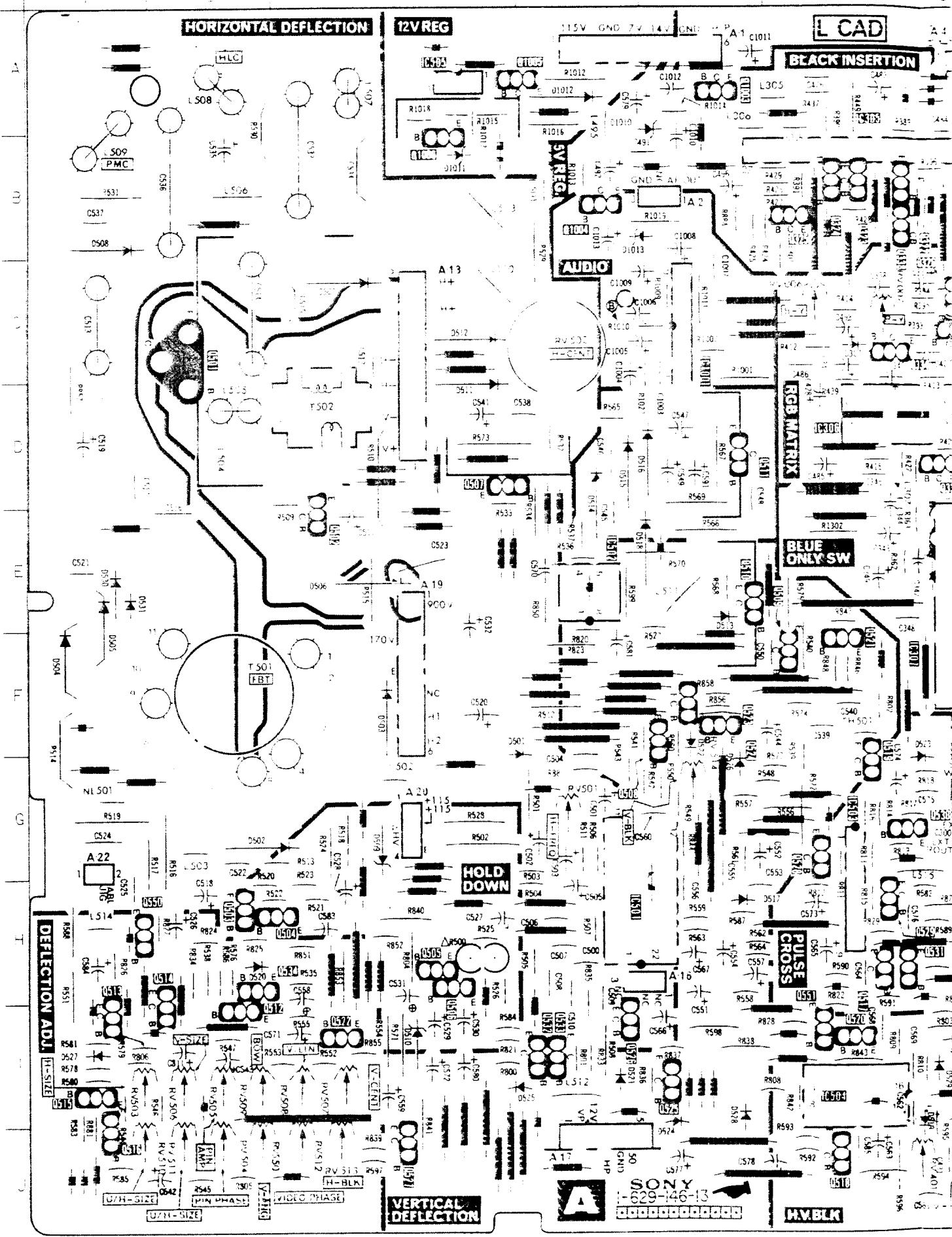
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2	SYS KILLER	D404 K
3	COLOR CONT	Q337 B
4	PLS ELIM1	
5	PLS ELIM2	



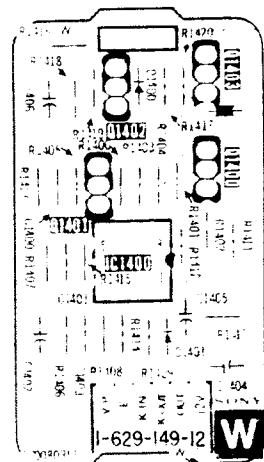
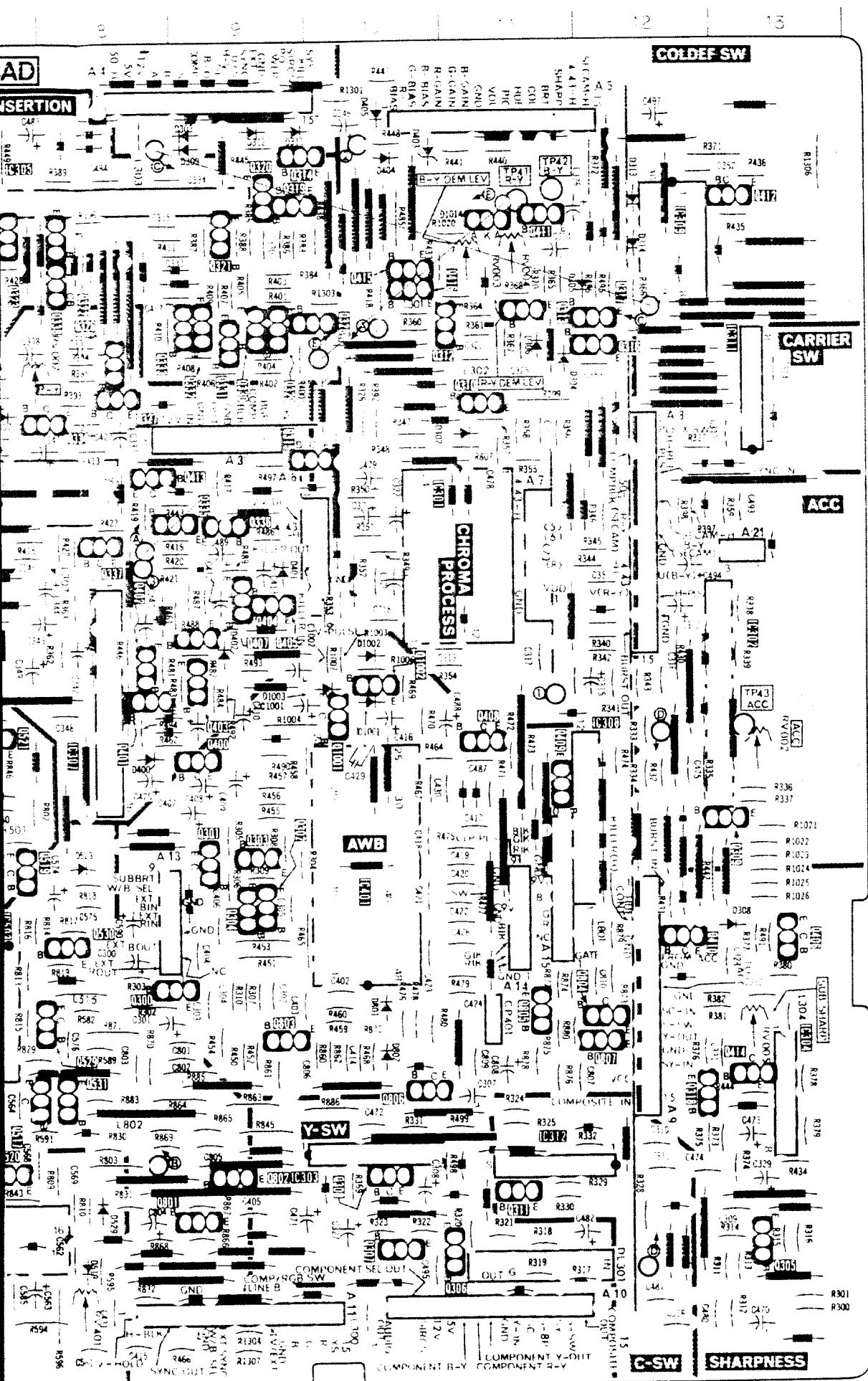
(3.58/4.43
DISTINCTION)

6-3. PRINTED WIRING BOARDS — Conductor Side —
— A Board — Page 36, 37, and 39

[SIGNAL PROCESS, DEFLECTION SYSTEM]



- W Board -



7-1. CHASSIS

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
1	*A3-704-372-01	HOLDER, HV CABLE		14	*A-1135-564-A	BA BOARD, COMPLETE (PVM-1440QM ONLY)	
2	A.1-237-614-12	RESISTOR ASSY, HIGH-VOLTAGE			*A-1135-573-A	BA BOARD, COMPLETE (PVM-1442QM/1444QM ONLY)	
3	*4-391-842-01	BRACKET, HVR		15	*A-1270-249-A	QE BOARD, COMPLETE (PVM-1442QM ONLY)	
4	X-4391-805-1	CABINET ASSY, BOTTOM		16	*A-1270-267-A	QG BOARD, COMPLETE (PVM-1440QM ONLY)	
5	*A-1245-456-A	FE BOARD, COMPLETE			*A-1270-248-A	QD BOARD, COMPLETE (PVM-1442QM ONLY)	
6	*A-1291-616-A	A BOARD, COMPLETE			*A-1270-246-A	QB BOARD, COMPLETE (PVM-1444QM ONLY)	
7	A.1-439-395-12	TRANSFORMER ASSY, FLYBACK		17	*A-1270-266-A	QF BOARD, COMPLETE (PVM-1440QM ONLY)	
8	*1-629-149-12	W BOARD			*A-1270-247-A	QC BOARD, COMPLETE (PVM-1442QM ONLY)	
9	*1-629-151-11	X BOARD			*A-1270-245-A	QA BOARD, COMPLETE (PVM-1444QM ONLY)	
10	*1-629-150-11	Y BOARD		18	4-391-843-32	PLATE, TERMINAL (PVM-1440QM ONLY)	
11	*1-629-148-11	Z BOARD			4-391-843-12	PLATE, TERMINAL (PVM-1442QM ONLY)	
12	*1-629-219-11	U BOARD (PVM-1440QM ONLY)			4-391-843-02	PLATE, TERMINAL (PVM-1444QM ONLY)	
				19	*3-682-419-01	HOLDER, P.C.B	

7-2. PICTURE TUBE

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
51	1-466-113-11	CONTROL UNIT (PVM-1440QM ONLY)		66	*4-391-835-01	PLATE (C), SHIELD (PVM-1442QM ONLY)	
	1-466-076-11	CONTROL UNIT (PVM-1442QM ONLY)		67	*4-374-912-01	COVER (MAIN), CV VOL	
	1-466-198-11	CONTROL UNIT (PVM-1444QM ONLY)		68	*4-374-913-01	COVER (REAR LID), CV.VOL	
53	1-544-063-11	SPEAKER		69	A.1-426-145-13	COIL, DEGAUSSING	
54	4-374-839-11	BUTTON (A)		70	4-307-249-00	SCREW (5), TAPPING	
55	4-391-824-01	JOINT		71	4-391-833-01	CLOTH, PROTECTION	
56	A.1-554-967-12	SWITCH, PUSH (AC POWER) (1 KEY)		72	4-391-839-01	COVER, REAR	
57	*4-391-820-01	COVER, AC SWITCH		73	X-4391-810-1	COVER ASSY, TOP	
58	X-4391-804-1	BEZEL ASSY (PVM-1442QM/44QM ONLY)		74	4-391-825-01	RIVET, NYLON	
	X-4391-804-2	BEZEL ASSY (PVM-1440QM ONLY)		75	*4-364-745-01	BUSHING, AC CORD	
59	A.8-736-254-05	PICTURE TUBE (A34JHS10X) (PVM-1440QM ONLY)		76	A.1-574-389-12	CORD, POWER	
	A.8-734-621-05	PICTURE TUBE (M34KBE31X) (PVM-1442QM/1444QM ONLY)		77	4-308-870-00	CLIP, LEAD WIRE	
60	3-703-961-01	SPACER, DY		78	1-452-032-00	MAGNET, DISK; 10MMφ	
61	A.1-451-329-11	DEFLECTION YOKE (Y14FZA)		79	1-452-094-00	MAGNET, ROTATABLE DISK; 15MMφ	
62	*4-382-050-01	BAND, C PC BOARD		80	X-4309-608-0	PERMALLOY ASSY, CONVERGENCE	
64	*A-1330-986-A	C BOARD, COMPLETE		82	*1-629-153-11	J BOARD	
				83	1-543-604-11	CORE, RING	
				84	4-847-802-11	SCREW (OS), CASE, CLAW	
				85	1-452-277-00	MAGNET BMC	

SECTION 8 ELECTRICAL PARTS LIST

- A BOARD - Page 83

<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
	*A-1291-616-A	A BOARD, COMPLETE	

	*4-329-153-00	HEAT SINK, V OUT	
	*4-341-751-01	EYELET	
	*4-341-752-01	EYELET	
	*4-363-404-00	HOLDER, IC	
	4-363-414-00	SPACER, MICA	

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<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
	R1416	1-249-429-11	CARBON
	R1417	1-249-433-11	CARBON
	R1418	1-249-439-11	CARBON
	R1419	1-249-440-11	CARBON
	R1420	1-249-441-11	CARBON
	R1421	1-247-881-00	CARBON
			CONNECTOR
W1		*1-565-482-11	CONNECTOR, BOARD TO BOARD 6P
W2		*1-564-508-31	PLUG, CONNECTOR 5P

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<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
R361	1-249-405-11	CARBON	100 5% 1/4W
R362	1-249-410-11	CARBON	270 5% 1/4W
R363	1-249-432-11	CARBON	18K 5% 1/4W
R364	1-249-417-11	CARBON	1K 5% 1/4W
R365	1-249-432-11	CARBON	18K 5% 1/4W
R366	1-249-437-11	CARBON	47K 5% 1/4W
R367	1-249-413-11	CARBON	470 5% 1/4W
R368	1-249-405-11	CARBON	100 5% 1/4W
R369	1-249-405-11	CARBON	100 5% 1/4W
R370	1-249-417-11	CARBON	1K 5% 1/4W
R371	1-249-432-11	CARBON	18K 5% 1/4W
R372	1-249-465-11	CARBON	47K 5% 1/4W
R373	1-249-436-11	CARBON	39K 5% 1/4W
R374	1-249-432-11	CARBON	18K 5% 1/4W
R375	1-249-405-11	CARBON	100 5% 1/4W
R376	1-249-417-11	CARBON	1K 5% 1/4W
R377	1-249-437-11	CARBON	47K 5% 1/4W
R378	1-249-433-11	CARBON	22K 5% 1/4W
R379	1-249-430-11	CARBON	12K 5% 1/4W
R380	1-249-405-11	CARBON	100 5% 1/4W

- XA BOARD - Page 93

*1-629-151-11 XA BOARD

CAPACITOR

C1300	1-101-005-00	CERAMIC	0.022MF	50V
C1301	1-101-888-00	CERAMIC	68PF	5% 50V
C1302	1-101-884-00	CERAMIC	56PF	5% 50V
C1303	1-102-942-00	CERAMIC	5PF	1PF 50V
C1304	1-102-947-00	CERAMIC	10PF	0.5PF 50V
C1305	1-102-947-00	CERAMIC	10PF	0.5PF 50V
C1306	1-102-951-00	CERAMIC	15PF	5% 50V
C1307	1-102-951-00	CERAMIC	15PF	5% 50V
C1308	1-126-101-11	ELECT	100MF	20% 16V
C1309	1-102-125-00	CERAMIC	0.0047MF	10% 50V

- W BOARD - Page 93

*1-629-149-12 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