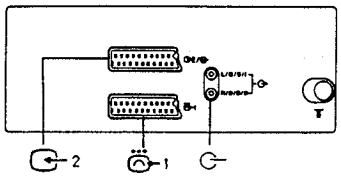
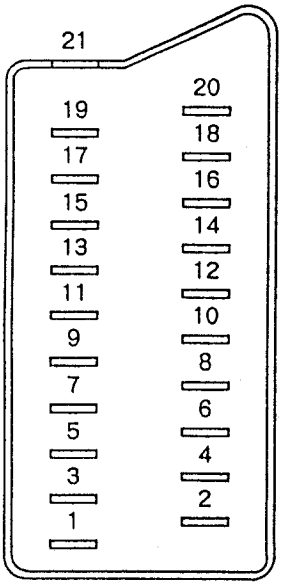
21 pin connector (1, 2)





Pin No	1	2	Signal	Signal level
1	○	○	Audio output B (right)	Standard level : 0.5Vrms Output impedance : Less than 1kohm *
2	○	○	Audio input B (right)	Standard level : 0.5Vrms Input impedance : More than 10kohms *
3	○	○	Audio output A (left)	Standard level : 0.5Vrms Output impedance : Less than 1kohm *
4	○	○	Ground (audio)	
5	○	○	Ground (blue)	
6	○	○	Audio input A (left)	Standard level : 0.5Vrms Input impedance : More than 10kohms *
7	○	●	Blue input	0.7V±3dB, 75ohms, positive
8	○	○	Function select (AV control)	High state (9.5−12 V) : Part mode Low state (0−2 V) : TV mode Input impedance : More than 10kohms Input capacitance : Less than 2 nF
9	○	○	Ground (green)	
10	○	○	Open	
11	○	●	Green	Green signal : 0.7V±3dB, 75ohms, positve
12	○	○	Open	
13	○	○	Ground (red)	
14	○	○	Ground (blanking)	
15	○	−	Red input	0.7V±3dB, 75ohms, positive
	−	○	(S signal) croma input	0.3V±3dB, 75ohms, positive
16	○	●	Blanking input (Ys signal)	High state (1−3 V) Low state (0−0.4 V) Input impedance : 75ohmes
17	○	○	Ground (video output)	
18	○	○	Ground (video input)	
19	○	○	Video output	1V±3dB, 75ohms, positive Sync : 0.3V (−3, +10dB)
20	○	−	Video input	1 V±3dB, 75ohms, positive Sync : 0.3V (−3, +10dB)
	−	○	Video input/Y (S signal)	1 V±3dB, 75ohms, positive Sync : 0.3V (−3, +10dB)
21	○	○	Common ground (plug, shield)	

○ connected ● unconnected (open) * at 20 Hz−20 kHz

WARNING !!

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

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND ⚠ MARK ON THE SCHEMATIC DIAGRAMS ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THE SERVICE MANUAL.
CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THE SERVICE MANUAL PUBLISHED BY SONY.

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NICAM Reception

Reception of NICAM broadcast is possible if the NICAM adaptor (available at your Sony dealer) is installed in the TV.

When the NICAM broadcast is being received, indicators illuminate according to the sound being heard.
Select the sound you want to hear by pressing the A/B bilingual button. Each time the A/B bilingual button is pressed, the sound will change as indicated with arrows in the following chart.

○ means that the indicator lights up.
× means that the indicator dose not light up.

The NICAM sound being broadcast	The sound you hear (Select with the A/B bilingual button.)	Indicators		
		A	B	⊙⊙ * (NICAM)
Stereo	Stereo ↓ Regular	○	○	○
		×	×	○
A+B (Bilingual)	A ↓ B ↓ Regular	○	×	○
		×	○	○
		×	×	○
A	A ↓ Regular	○	×	○
		×	×	○
Regular only	Regular	×	×	×

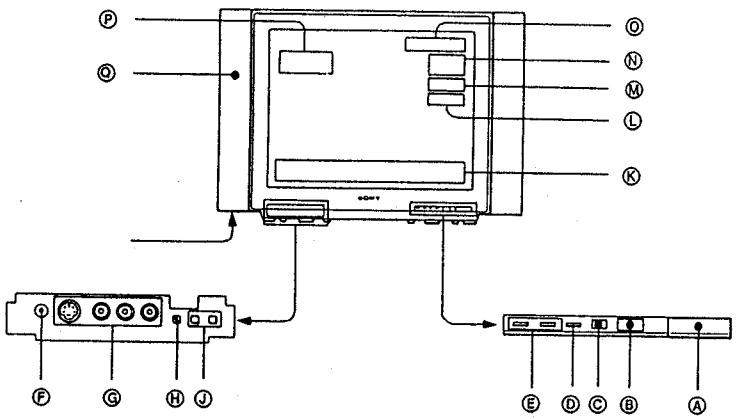
* When the NICAM adaptor is installed, the ⊙⊙ space sound indicator will function as the NICAM indicator (the space sound function will not be affected). When the NICAM broadcast is being received, the NICAM indicator lights up even when the regular sound has been selected.

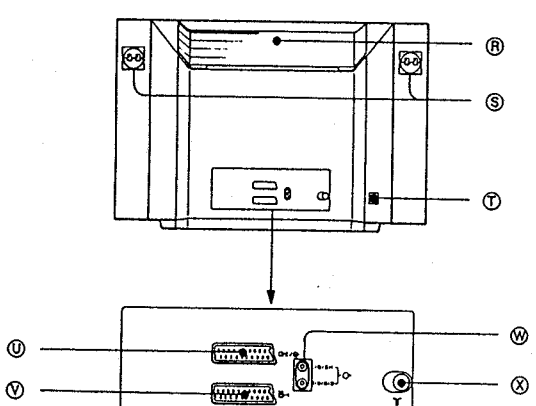
When you turn on the TV, what sound will be heard?
When the Regular sound and the NICAM sound are the same, the NICAM sound will be heard.
When the Regular sound and the NICAM sound are different, the Regular sound will be heard.

Note

The West German stereo programs can be received as explained in the supplied Operating Instructions.

1-1. FUNCTION OF CONTROLS





ON THE SET

Ⓐ Power Switch ⏻

Use it to switch the set on and off. When you switch the set on, the programme number of the station tuned in will be indicated in the on-screen display Ⓝ for some seconds. In case of short breaks of operation, you can switch the set on and off using the Remote Commander (See »CONTROLS ON THE REMOTE COMMANDER«).

Ⓑ Remote control detector

(See »CONTROLS ON THE REMOTE COMMANDER«).

Ⓒ ⏻ Standby/Response indicator

This indicator lights up when the TV set is in standby mode and it flashes each time the set receives signals from the Remote Commander.

Ⓓ Noise reduction indicator

This indicator lights up when noise reduction has been activated by pressing button 22 on the Remote Commander.

Ⓔ Stereo A/B indicators

During bilingual programmes one of the two indicators lights up, depending upon the selected channel **A** or **B**. When stereo programmes are broadcast both indicators light up. (See »CONTROLS ON THE REMOTE COMMANDER«).

Jacks and control panel

The jacks and the control panel are situated behind a cover. Please press the arrow marking on the cover to open it.

Ⓕ Headphones jack (stereo minijack)

Connect only stereo headphones.

Ⓖ Input jacks

(Y/C input) connector (4-pin) **3**
Video input jack (phono jack) **3** (yellow)
Audio input jacks (phono jacks) L/G/S/I and R/D/D/D (red and white).

Ⓗ Mode select button

Use this button to select either the programme tuning mode, volume adjustment or the input mode.

Ⓙ Adjustment buttons +/–

Select at first the item to be adjusted using the Mode select button Ⓗ: **P** (programme tuning mode), (volume) or (input mode), then adjust the item by pressing the + or – button.
You can also use these buttons to reset the picture and sound adjustments to the factory-set levels. For this purpose press both buttons simultaneously.

On-screen display

When you press button 12 on the Remote Commander, the following information will be indicated on the screen:

Ⓚ Picture and sound adjustment items:

contrast, colour, brightness, hue (only for NTSC), sharpness, bass, treble or balance and the respective levels; as well as mute, reset, space sound and loudness indications, when the respective buttons are pressed.

When you press button 10 on the Remote Commander, the following information will be indicated on the screen:

Ⓛ TV-System: B/G

Ⓜ Channel number

Ⓝ Programme number or input mode;

1, , 2, 2, 3 or 3;

Ⓞ Indication of the station name

Ⓟ AV output indication; 1 , 2 , 3 or TV (see »CONTROLS ON THE REMOTE COMMANDER«).

Ⓠ Speakers

See »HOW TO ATTACH THE SPEAKERS «.

Connectors on the rear

Ⓡ Woofer

Ⓢ Terminals for connecting the woofer

Ⓣ Terminals for the right and left speakers

Ⓤ Euro-AV-connector 21-pin /

For connecting a VTR, 8 mm video camera recorder, a video disc player or in general devices with an S-Video-output.

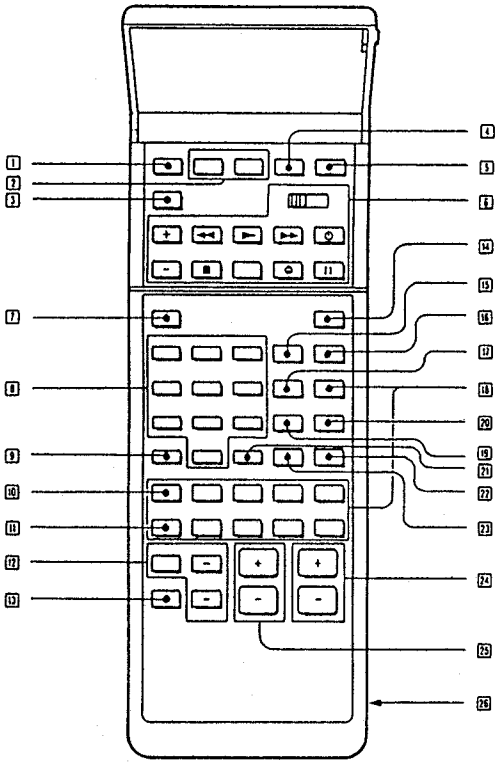
Ⓥ Euro-AV-connector 21-pin 1

For connecting a VTR, a video disc player, a computer ecc.,

Ⓦ Audio-output-jacks (phono jacks)

For connecting audio equipment, e.g. an amplifier, so that the sound will be output at the audio equipment. In this case the volume is adjustable on the TV set.

Ⓧ Aerial terminal



ON THE REMOTE COMMANDER

On the set there is a Remote Control detector Ⓑ, which receives the signals of the Remote Commander.

[1] **Preset-button** Used for selecting the Preset mode. See »TO PRESET CHANNELS«;

[2] **Tuning +/– butttons**
a) Preset mode: Used for tuning in stations in the Automatic Station Search: See »TO PRESET CHANNELS«;
b) TV-mode: Used for fine-tuning a station. See »ADDITIONAL FUNCTIONS«;

[3] **C∘∘ button (Clear)**
Used for clearing programme positions, so that the position will be skipped when the PROGR +/– buttons [24] are pressed. See »TO PRESET CHANNELS«.

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

[4] ◇ **Store button:** Used for storing channels. See »TO PRESET CHANNELS«;

[5] **TV-system-select-button**
This button has no function;

[6] **Video selector and video operation buttons**
Used for operating Sony video equipment. For details see »CONNECTING OTHER EQUIPMENT«;

[7] **Mute button**
By pressing this button the sound of the set will be switched off and by pressing it once more the sound will restored.

[8] **Number buttons**
a) Used to select programme positions or to input channel numbers (in the preset mode).
b) If the set is in the standby mode, press one of the number buttons to switch it on.
c) After pressing the Output select button [17] the buttons 1-3 can be used to select the different Output connectors.

[9] **-/-- Button**
In case of two digit numbers, press first this button and then the two respective number buttons [8].

[10] **Button for On-screen display**
By pressing this button information about the station tuned-in will be indicated on the screen. The indications will disappear after some seconds with the exeption of the programme number, which will stay on the screen until the button is pressed once again.

[11] **Time button**
In TV-mode: If teletext service is broadcast on the selected channel, press this button to display the current time on the screen and once again to make it disappear.

[12] **+/– Buttons for picture and sound adjustments**
a) TV-mode:
The picture and sound adjustments are stored as standard values. You have, however, the possibility to change them to your individual liking. Press the button repeatedly until the required item is indicated in the on-screen display: ◑ contrast, ◕ colour, ☼ brightness, ⌓ hue (only for NTSC colour system), ◫ sharpness, ♪ bass, 𝄞 treble or ⌓ balance. You can adjust the settings by pressing the + or – button.
b) Preset-mode: Use these buttons to name a station. See »TO PRESET CHANNELS«;

[13] **--- Reset-button**
By pressing this button the picture and sound adjustments are reset to the factory-set levels.

[14] **Standby-button**
Press this button to switch the set into standby-mode. You can switch it on again by pressing the TV-button [16] or one of the number buttons [8]. To return to the teletext mode, press the ▤/▱ [18] button. There will be a slight delay before the picture is restored.

Note

Use the Standby-button [14] only when switching the set off for a short period of time. If the set will not be used for a longer span of time, switch it off by using the Power switch Ⓐ.

[15] **Input-Select-Button**
Press this button to select the audio- or video-signals input at the various input connectors. With each pressing of the button a different connector is selected. The following indications will appear sequentially:
1 → (RGB) → 2 → 2 → 3 → 3
TV-mode

[16] **TV-Button**
When pressing this button the set returns from standby, video input- or teletext mode to the TV-mode.

[17] **Output-Select-Button**
Press this button to select the audio- or video signals to be output at the /-connector. First press this button, then select the desired signal source using the number buttons [8] (either 1, 2 or 3) or the TV-button [16] (if the signals which are on the screen are to be output).

[18] **Teletext operation buttons**
These buttons are used for teletext operation. See »VIEWING TELETEXT«.

[19] **Loudness button**
By pressing this button the high and low tones will be emphasized. Press the button again to restore the normal sound. The indications on the screen will be ∪ or ∿.

[20] **A/B button**
To select the channel of bilingual programmes. Usually the synchronized version is broadcast on channel **A** and the original sound is broadcast on channel **B**.
In the video input mode (Euro-AV-connectors) this possibility of selecting channels also exists.

[21] **C (Channel select) button**
Use this button for direct channel tuning in the TV-mode. See »ADDITIONAL FUNCTIONS«.

[22] **Noise reduction button**
Press to reduce the noise on the picture. The Noise reduction indicator Ⓓ lights up. Press the button again to restore the normal picture.

[23] **Space sound button**
Press this button to obtain special acoustic effects. Press it again to restore the normal sound. The indications on the screen will be ⊜ or ⊜.

[24] **PROGR +/– buttons**
TV-mode: Use these buttons to scan the available programmes up- or downwards.
Preset mode: Use these buttons to scan the available channels up or downwards.

[25] **+/– buttons for adjusting the volume**

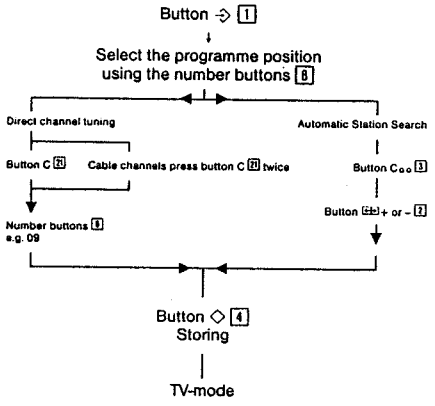
[26] **Battery compartment (on the rear)**

1-2. TO PRESET CHANNELS

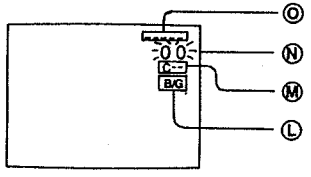
Use the buttons on the Remote Commander for presetting. In total there are 60 programme positions at your disposal for storing channels.
There are two different ways of tuning in channels:

1. Direct Channel Tuning
You know the channel number of a station and can input it directly.

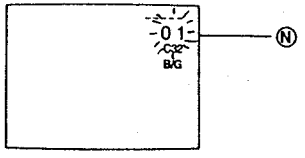
2. Automatic Station Search
The set searches automatically for stations (including cable channels).



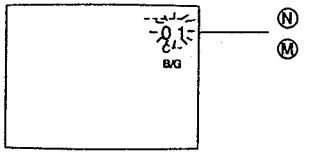
1. Direct Channel Tuning
1. Press the Preset button ⇨ 1. You are now in the preset mode of the set. The programme number in the on-screen display Ⓝ starts blinking.



2. With the buttons PROGR +/- 24 or the number buttons 8 you can select the programme position. In case of two-digit numbers, press first the button -/-- 9 and then the two number buttons.

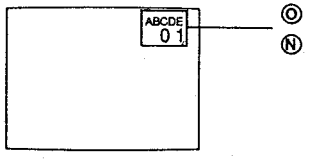


3. Press button C 21. The indication »C« and the channel number start blinking in the display Ⓜ. Select the channel number with two digits (e.g. 04) using the number buttons 8.



If you want to select a cable channel press button C 21 twice. In this case the indication »S« will appear in the display Ⓜ. Select the channel number as described above.

4. Press the button ◇ 4 in order to store the channel and to return to the TV-mode.



If you want to store further channels, repeat the steps 1 to 4.

2. Automatic Station Search

1. Press button ⇨ 1. You are now in the preset mode of the set. The programme number in the on-screen display Ⓝ starts blinking.

2. With the PROGR buttons +/- 24 or the number buttons 8 you can select the programme position. In case of two-digit numbers, press first button -/-- 9 and then the two number buttons.

3. If there is already a stored station on the selected programme position, press button C⁰⁰ 3.

4. Press one of the tuning buttons + or - 2 to start the station search. The search will be interrupted as soon as a station is tuned in. Press the tuning buttons repeatedly until you find the desired station.

5. If you have found the desired station, press button ◇ 4. Now the selected station is stored and you are back in the TV-mode.

6. If you want to store further stations, repeat the steps 1-5.

Skipping of unused programme positions
Using button C⁰⁰ 3 you have the possibility to have unused programme positions (e.g. without a stored station) skipped, when pressing the buttons PROGR +/- 24 on the Remote Commander.

1. Press button ⇨ 1. You are now in the preset mode of the set.

2. Use the buttons PROGR +/- 24 to select the programme position, which you want to have skipped.

3. Press button C⁰⁰ 3.

4. Press button ◇ 4 to store the cleard programme position and to return to the TV-mode.

The skipped programme positions still appear when you press the number buttons 8 on the Remote commander.

If you want to name a station
After presetting the stations you have the possibility to name them. The selected name will appear in the on-screen display Ⓞ.

1. Press the preset button ⇨ 1.

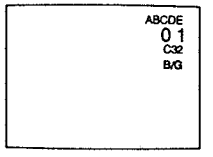
2. Press the button 12. The first column of the station name starts blinking. Press either button + or - 12 and select the desired character (number or letter, 0-9, A-Z, - for a blank column).

3. Press button 12 again. Now the second column starts blinking and you can select the second character.
In this way five characters can be selected.

4. Press button ◇ 4 to store the station name.

Notes

- If you press the preset button ⇨ 1 instead of button ◇ 4 the set will return to the TV-mode without storing the channels.
- If you press a wrong programme or a channel number, an »X« will be displayed on the screen.
- When pressing two number buttons, the second number button should be pressed within 5 seconds after the first one, otherwise the operation will be cancelled.

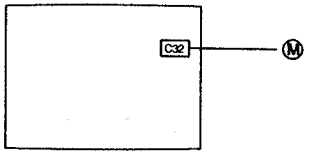


ADDITIONAL FUNCTIONS

Direct Channel Tuning in the TV-mode
You have the possibility to tune in channels directly when the set is in the TV-mode without storing these channels.
Example: You tune in channel number 32. If you switch the set off or change the programme position, this channel will be cancelled.

1. Press the button C 21. In the display Ⓜ the indication »C« will appear. For cable channels press the button C 21 twice. On the screen »S« will be displayed.

2. Select the channel number with two digits using the number buttons 8 (e.g. for channel 4 press first 0, then 4). The indication on the screen will disappear within some seconds.



Manual Fine Tuning
If the reception of a channel is not satisfactory, you have the possibility to disactivate the Automatic Fine Tuning, which is usually in operation during presetting in order to tune in the best possible picture.
Press one of the tuning buttons +/- 2 to fine-tune a channel. The Automatic Fine Tuning will be restored when the respective programme position is pressed once again.

Auto shut off-Function
The TV set automatically goes into standby-mode some time after the transmission on a channel is finished.

1-3. VIEWING TELETEXT

To view the teletext service, use the Remote Commander.
The buttons for teletext operation are indicated in green.

Operation

1 Select the TV channel for the desired teletext service. When the signal is weak, teletext errors often occur.
2 Press ▤/▣ (TEXT/MIX) to display the teletext service.
3 Key in the three digits of the desired page using the number buttons. If an error is made, complete the three-digit sequence by keying in any digit. Then, re-enter the correct page number.
The requested teletext page is displayed.

To return to the TV mode, press TV on the Remote Commander.

The teletext service can be displayed directly from the standby mode by pressing ▤/▣ (TEXT/MIX).

To receive the teletext service of a different TV channel
1 Press TV to return to the TV mode.
2 Select the desired TV channel.
3 Press (=)/(↶) (TEXT/MIX).

Note

Buttons not referred to in the text do not operate.

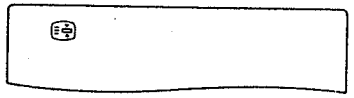
To request the index page
Press ⊡ (INDEX).
If the necessary signal is not being broadcast, page 100 is displayed.

To access the next or preceding page
Press ⊞ (PAGE +) or ⊟ (PAGE –).

To superimpose the teletext display on the picture
Press ▤/▣ twice from the TV mode.
Press ▤/▣ again to return to the TEXT display.

To suppress the teletext display so that the TV picture is displayed
Press ⊠ (TEXT CL).
This button can be operated from both the TEXT and MIX displays.

To prevent a teletext page from being updated/changed
Press ⊕ (HOLD). The HOLD symbol appears on the screen.
To resume normal teletext reception, press ▤/▣ (TEXT/MIX).

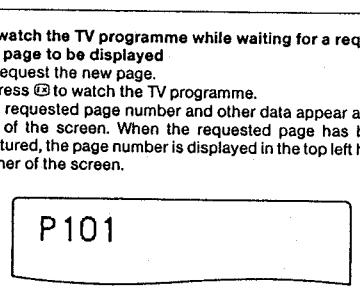


To resume normal teletext reception, press ▤/▣.

To enlarge the teletext display
Press ⊞ once to enlarge the upper half of the display; press again to enlarge the lower half of the display. And press again to return to the normal display.

To reveal concealed information such as answers to a quiz
Press ⊡ (REVEAL).
Press again to conceal the answers.

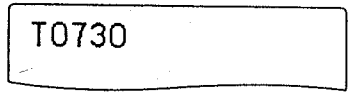
To watch the TV programme while waiting for a requested page to be displayed
1 Request the new page.
2 Press ⊠ to watch the TV programme.
The requested page number and other data appear at the top of the screen. When the requested page has been captured, the page number is displayed in the top left hand corner of the screen.



To view this page, press ▤/▣.

To have a requested page displayed at a pre-determined time
1 Request a time coded page (e.g. alarm page).
2 Press ⊡ (TP ON).
"T✱✱✱✱" will appear at the bottom of the screen.

3 Enter your request time with the number buttons, using four digits. For example, 07 30.



To watch the TV programme until the requested time, press ⊠ (TEXT CL). At the requested time, the page number will be displayed at the bottom of the screen.
To view this page, press ▤/▣.
To cancel the request, first ensure that the teletext page is displayed, then press ⊗ (TP OFF).

To view the input picture
Press the ⊖ [15] button repeatedly until the desired input signal indication appears on the screen.

⊖ **1:** to view the audio and video signal input through the ⊙ 1 connector on the rear.

⊖**1:** to view the RGB signal (i.e. from a computer, etc.) input through the ⊙ **1** connector.

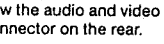
⊖ **2:** to view the audio and video signal input through the ⊖**2/**⊜ connector on the rear.

⊜ **2:** to view the S video signal (from a VTR equipped with an S video output) input through the ⊖ **2/**⊜ connector.

⊖ **3:** to view the audio and video signal input through the ⊖ **3** connectors and the audio input jacks ⊖ (yellow, white and red) on the front.

⊜ **3:** to view the S video signal input through the ⊖ **3** connectors on the front (4-pin connector and white and red phone jacks).

You can also select the desired input mode using the buttons on the front of the set. Select the ⊖ mode with the mode select (P→ ⊿ →⊖) button Ⓕ then press +/– button.



To return to the TV mode, press the TV-button.

To select the signal to be output from the ⊖ 2/⊜ connector
Press the ⊖ button [17], then 1, 2, 3 or the TV-button [16] while ⊖ is displayed, so that one of the following indications is displayed:

1 ⊖: The audio and video signal input through the ⊙ **1** connector is output from the ⊖ **2/**⊜ connector.

2 ⊖: The audio and video signal input through the ⊖ **2/**⊜ connector is output from the ⊖ **2/**⊜ connector.

3 ⊖: The audio and video signal input through the ⊖ **3** connectors is output from the ⊖ **2/**⊜ connector.

TV ⊡**2**: The audio and video signal input through the ⊤ aerial terminal (i.e. usually the TV signal) is output from the ⊖**2/**⊜ connector.

The indication will disappear after a few seconds.

Note

The TV-signal is always output at the EURO-AV connector ⊙ **1**.

To operate a Sony video equipment
The video operation buttons [6] on the Remote Commander can operate the VTRs and video disc players manufactured by Sony.

1. Switch the video selector to the desired position.
VIDEO 1: to operate Sony Betamax VTR and SLV 202 VHS.
VIDEO 2: to operate Sony 8 mm VTR.
VIDEO 3: to operate Sony VHS VTR.
MDP: to operate Sony video disc player including a multi disc player.

2. Press the operation button(s) to start operation.
PROGR +/–: to select the desired programme on the VTR.

◀◀ : to rewind the tape or to rapidly go back to the desired position on the disc

▶ : to start playback

▶▶ : to advance the tape or the disc rapidly to the desired position

■ : to stop the tape or the disc, or to release the pause mode

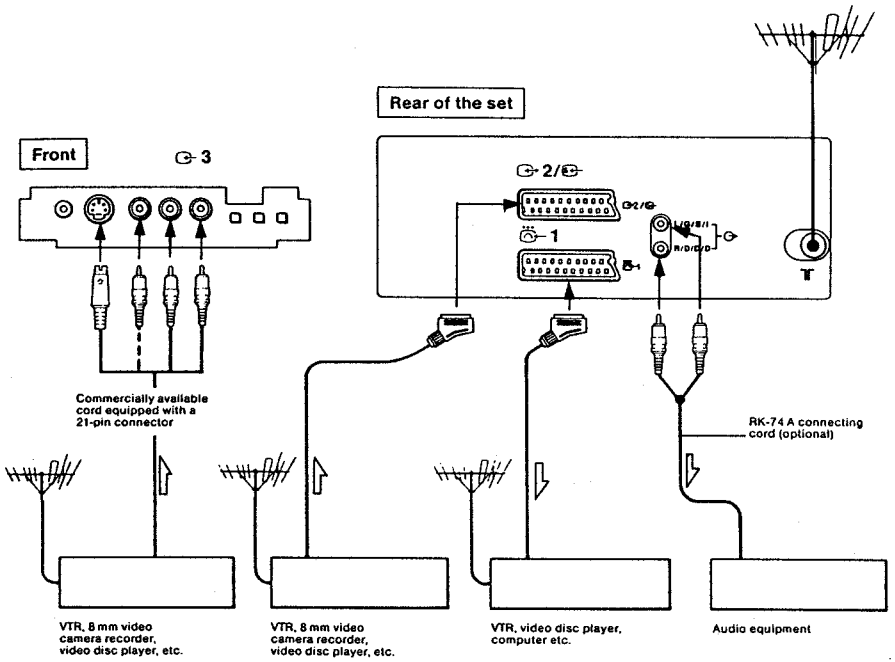
● : to start recording on the VTR
Be sure to press this button and the one on the left simultaneously

⏻ : to switch the video equipment on and off

■■ : to stop the tape or the disc temporarily (pause)

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

1-4. CONECTING OTHER EQUIPMENT



* Connect the S video output of the VTR, etc. here.
** To connect S video connectors (4-pin DIN), use an optional YC-15/YC-15 EV connecting cable.

Notes

- It is also possible to connect a VTR using the 1 terminal. In this case, connect the aerial to the aerial terminal of the VTR.
- Move the VTR away from the TV if the picture or the sound is distorted.
- Computers which have RGB output only can be connected to the 1 input connector.

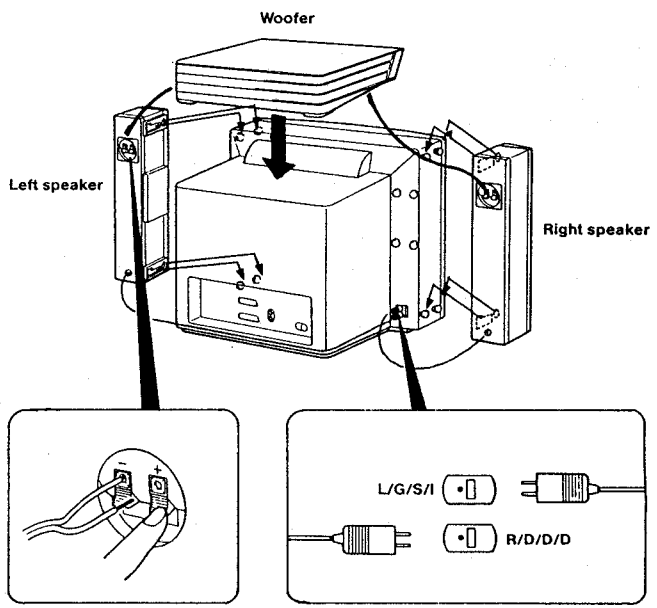
S video input (Y/C input)
Video signals may be separated into Y (luminance or brightness) and C (chrominance) signals.
Usually these two signals are combined in a VTR and output as one signal, and supplied to a TV. Separation of the Y and C signals prevent them from interfering with one another, thereby improving picture quality (especially in luminance).
This set is equipped with two S video input jacks through which these separated signals can be input directly.
Connect one of the two S video output jacks on the VTR to the S video input on this set.

1-5. HOW TO ATTACH THE SPEAKERS

	KV-E 2911 D
1	Place the woofer on the rear cover of the set.
2	Attach the right and left speakers on the sides of the set.
3	Connect the speaker cords of the woofer to the speaker terminals on the right and left speakers: connect the black cord to the – (black) terminal and the black and white cord to the + (red) terminal.
4	Connect the left speaker cord to the L/G/S/I terminal and the right speaker cord to the R/D/D/D terminal on the rear of the TV set.

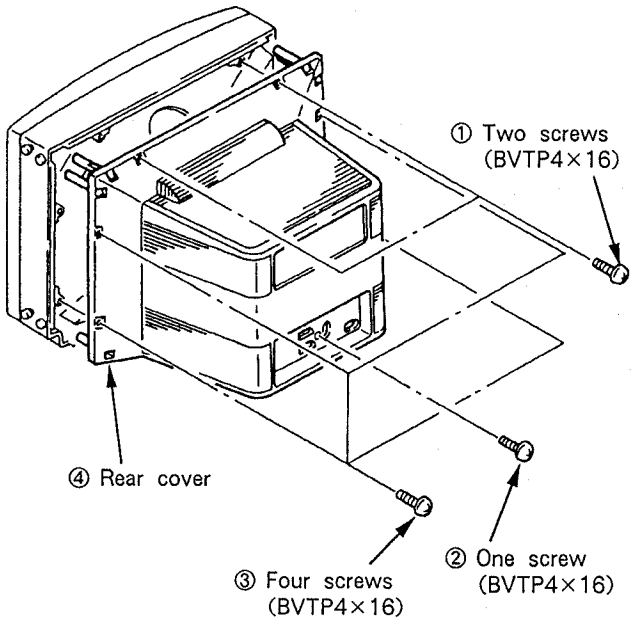
Note

Make sure that the set is turned off when you install the speakers.

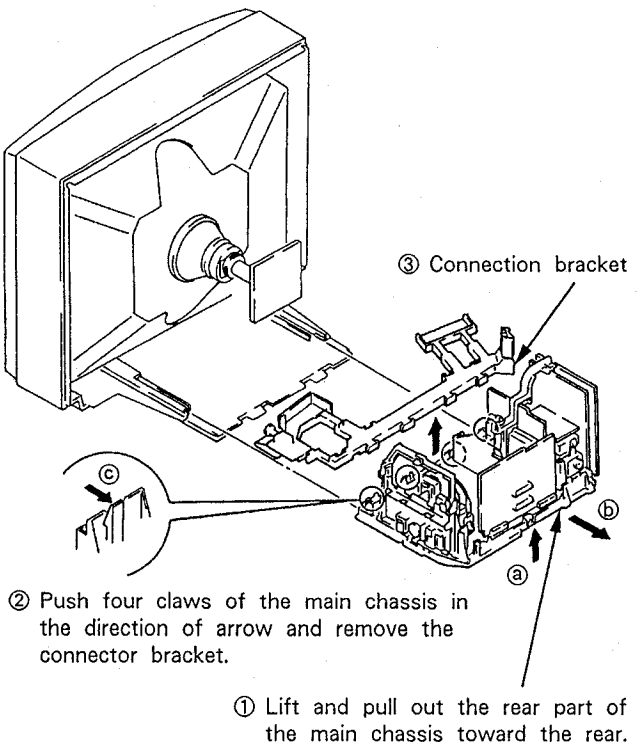


DISASSEMBLY

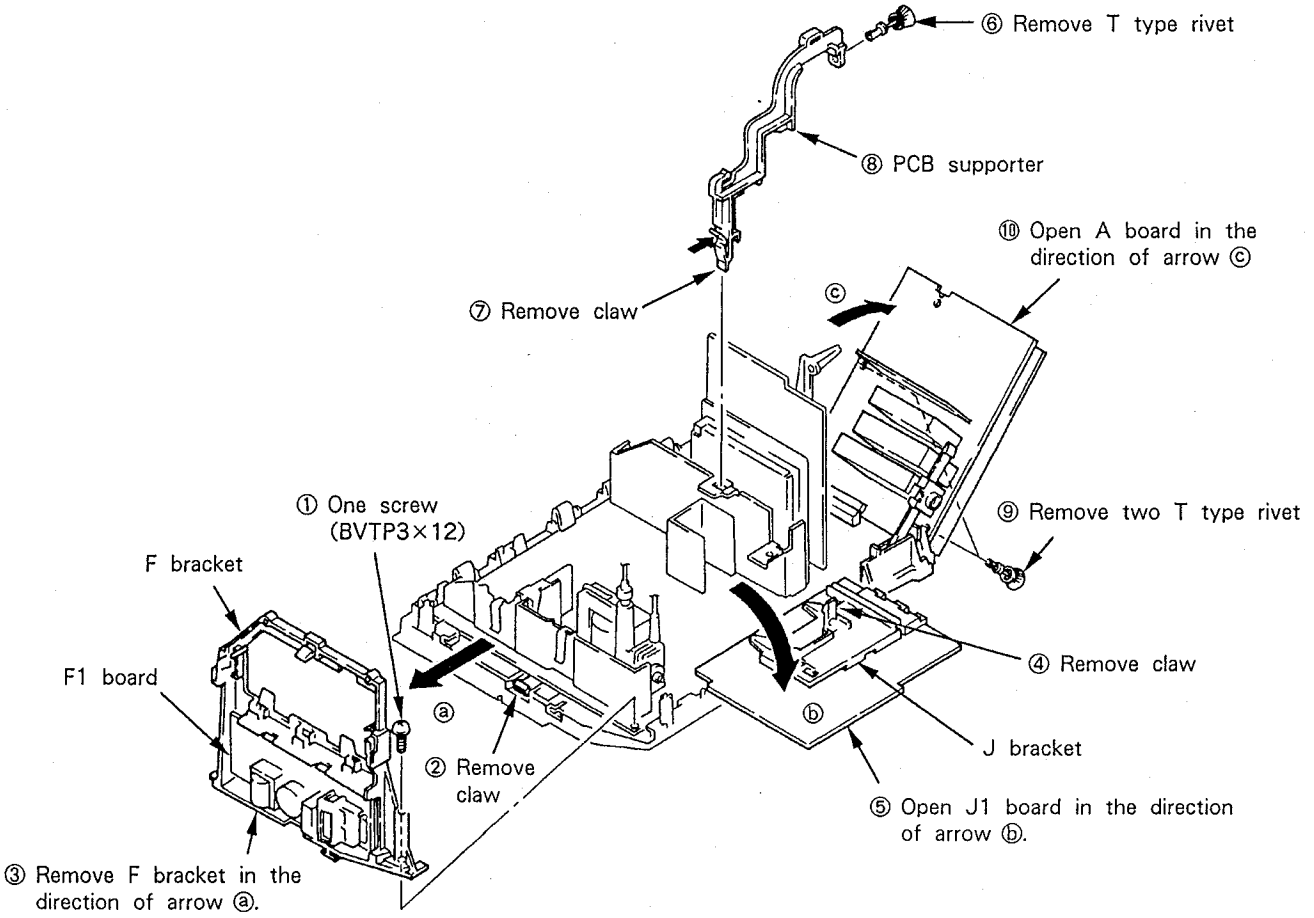
2-1. REAR COVER REMOVAL



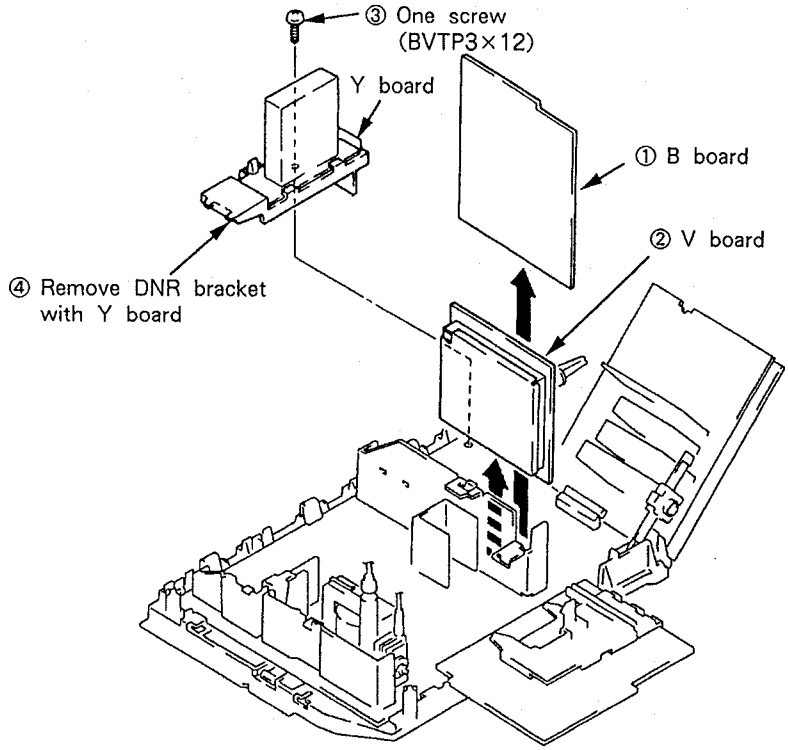
2-2. CHASSIS ASSY REMOVAL



2-3. A, J1 BOARDS OPENING AND F1 BOARD REMOVAL

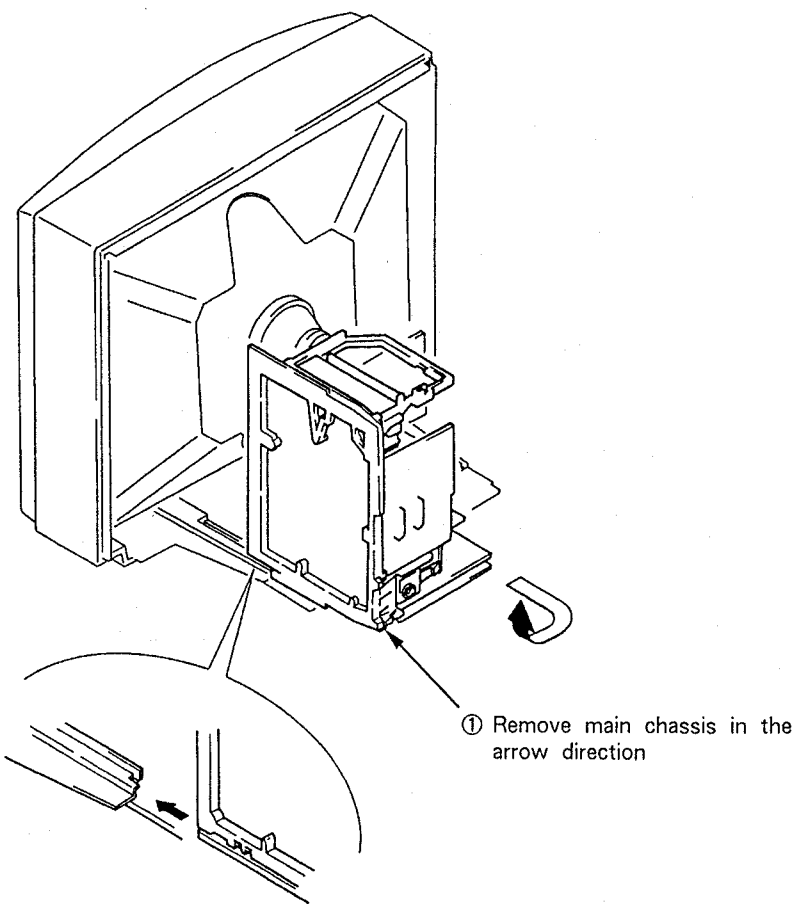


2-4. V, B AND Y BOARDS REMOVAL

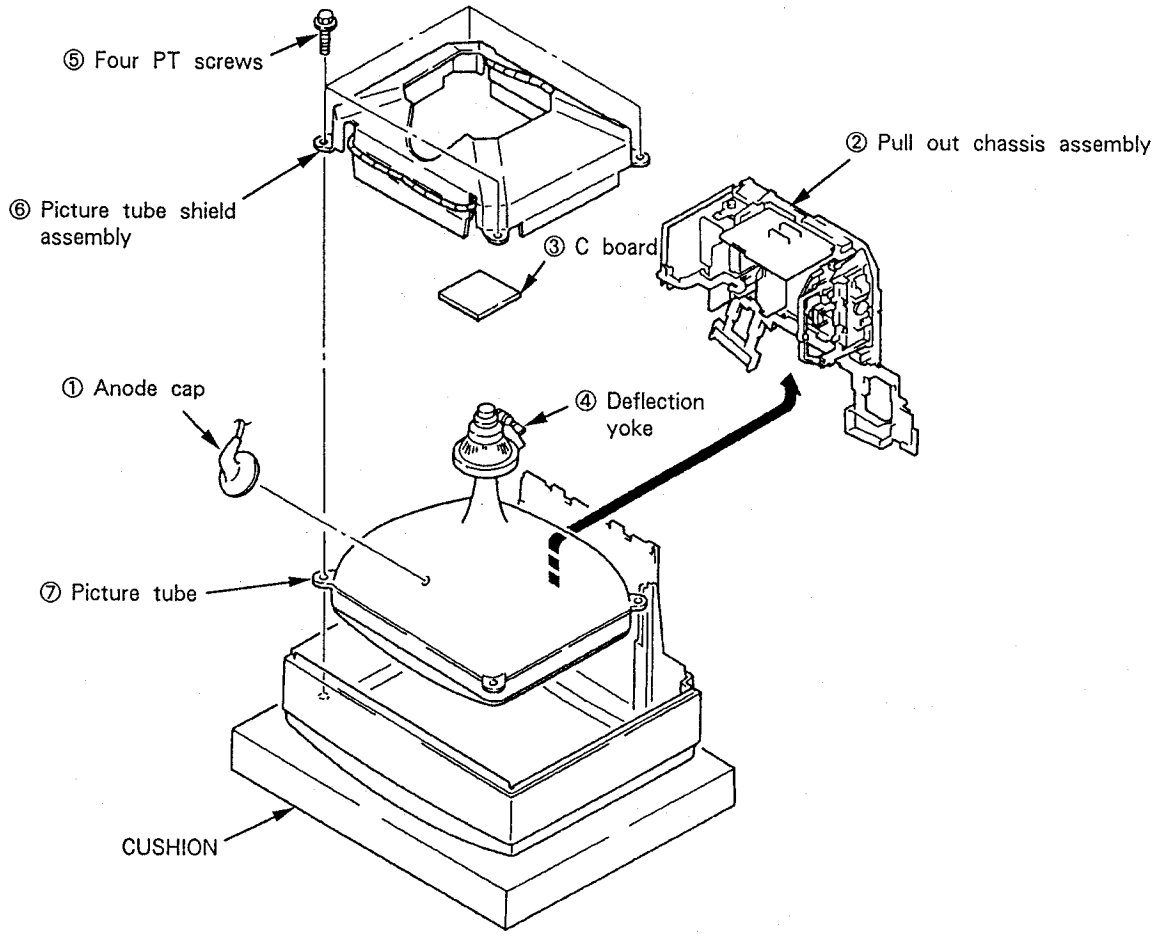


2-5. SERVICE POSITION

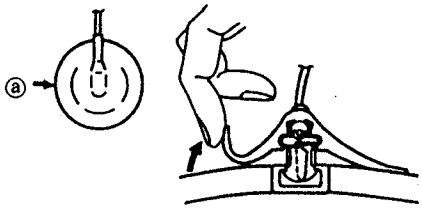
*Remove the connector bracket and then perform the following servicing (refer to 2-2. CHASSIS ASSEMBLY REMOVAL).



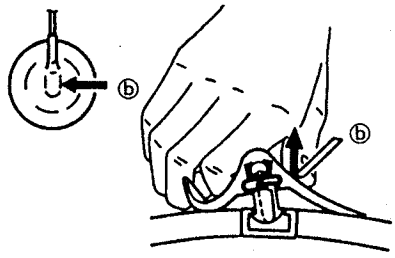
2-6. PICTURE TUBE REMOVAL



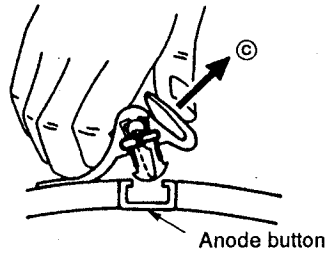
- **REMOVAL OF ANODE-CAP**
- **REMOVING PROCEDURES**



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



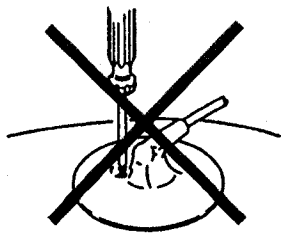
② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ.

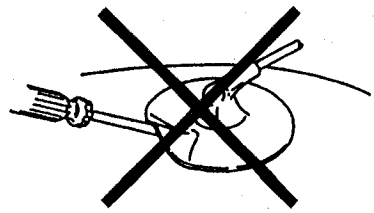


③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ⓒ.

- **HOW TO HANDLE AN ANODE-CAP**

① Don't hurt the surface of anode-caps with sharp shaped material !
② Don't press the rubber hardly not to hurt inside of anode-caps !
A metal fitting called as shatter-hook terminal is built in the rubber.
③ Don't turn the foot of rubber over hardly !
The shatter-hook terminal will stick out or hurt the rubber.





SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there is specific instruction to the contrary, carry out these adjustments with the rated power supply. Unless there is specific instruction to the contrary, set the controls and switches this way :
  - ◑ Contrast ····· 80% (or remote control normal)
  - ☼ Brightness ····· 50%

Carry out the following adjustments in this order :

1. Beam landing
2. Convergence
3. Focus
4. White balance

Note : Testing equipment required

1. Color bar/pattern generator
2. Degausser
3. DC power supply
4. Digital multimeter
5. Oscilloscope

Preparations

- In order to reduce the influence of geomagnetism on the set's PICTURE TUBE face it east or west.
- Switch on the set's power and degauss with the degausser.

3-1. BEAM LANDING

1. Input the raster signal with the pattern generator.
   Contrast ····· normal
   Brightness ····· normal
2. Set the pattern generator raster signal to red.
3. Move the deflection yoke to the rear and adjust with the purity control so that the red is at the center and the blue and the green take up equally sized areas on each side. (See Figures 3-1 through 3-3)
4. Move the deflection yoke forward and adjust so that entire screen is red. (See Figure 3-1)
5. Switch the raster signal to blue, then to green and verify the condition.
6. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
7. If the beam does not land correctly in all the corners, use a magnet to adjust it. (See Figure 3-4)

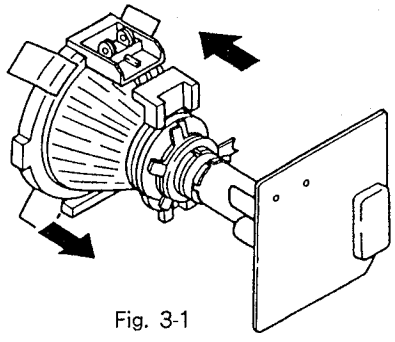


Fig. 3-1

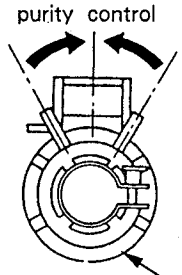


Fig. 3-2

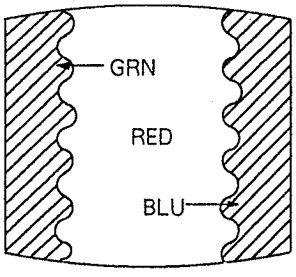


Fig. 3-3

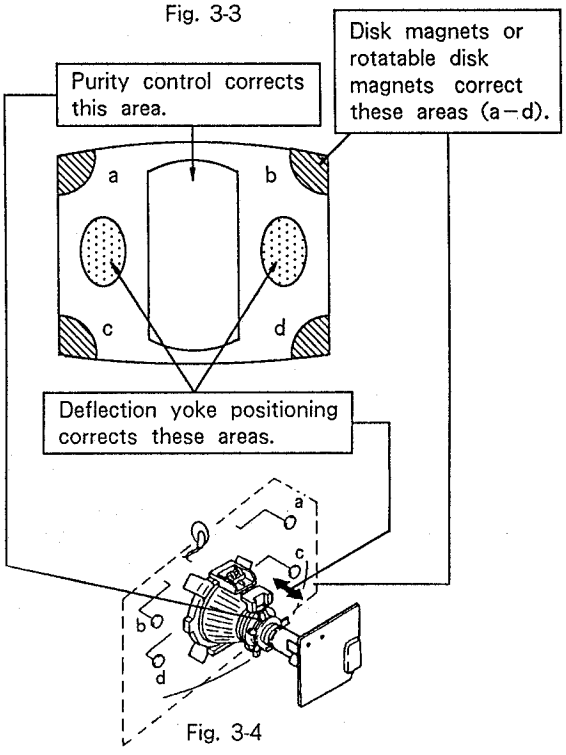


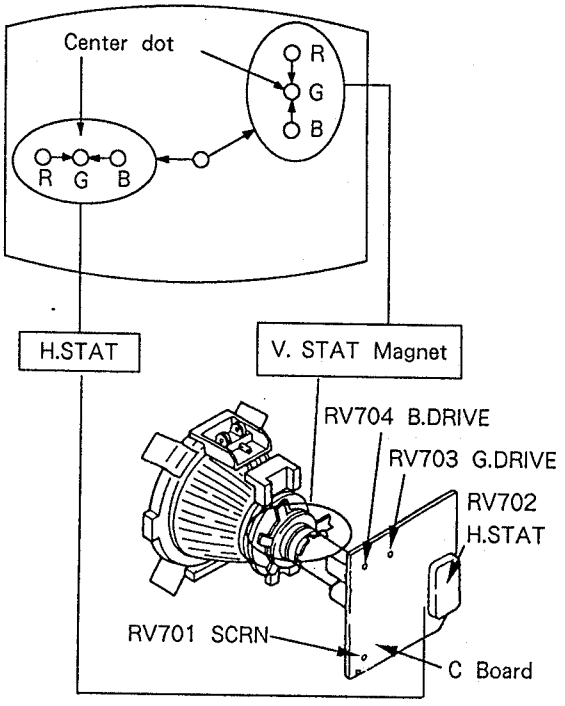
Fig. 3-4

3-2. CONVERGENCE

Preparations :

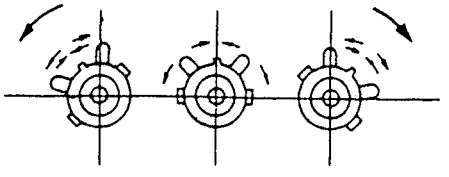
- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide a dot pattern.

(1) Horizontal and vertical static convergence

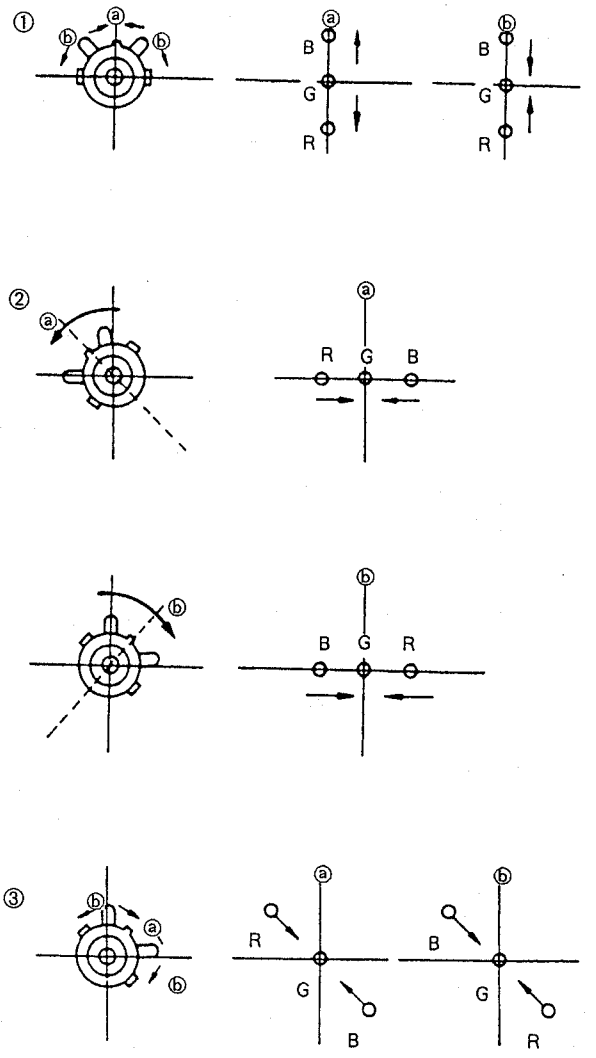


1. (Moving horizontally), adjust the H.STAT control so that the red, green, and blue points are on top of each other at the center of the screen.
2. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.
3. If the H.STAT variable resistor can not bring the red, green, and blue points together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V.STAT magnet in the manner given below.
   (In this case, the H.STAT variable resistor and the V.STAT magnet influence each other's settings.)

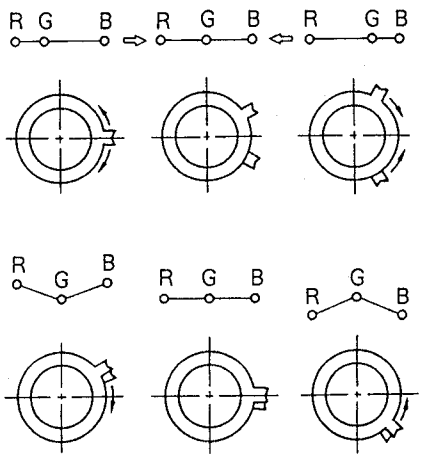
- Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.



4. If the V.STAT magnet is moved in the direction of the ⓐ and ⓑ arrows, the red, green, and blue points move as shown below.

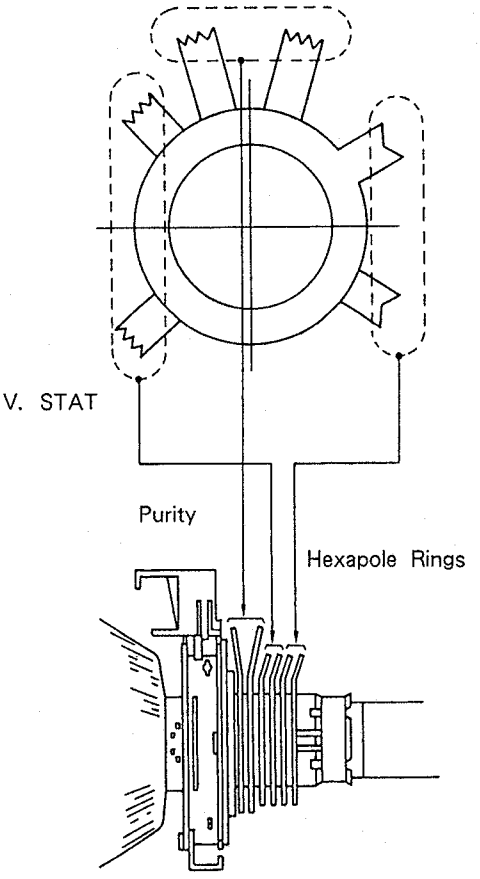


● Operation of Hexapole Ringed Magnet



The respective dot operations resulting from the operation of each magnet are not completely independent, so be sure to perform adjustment while tracking.

Use the H. STAT VR to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).

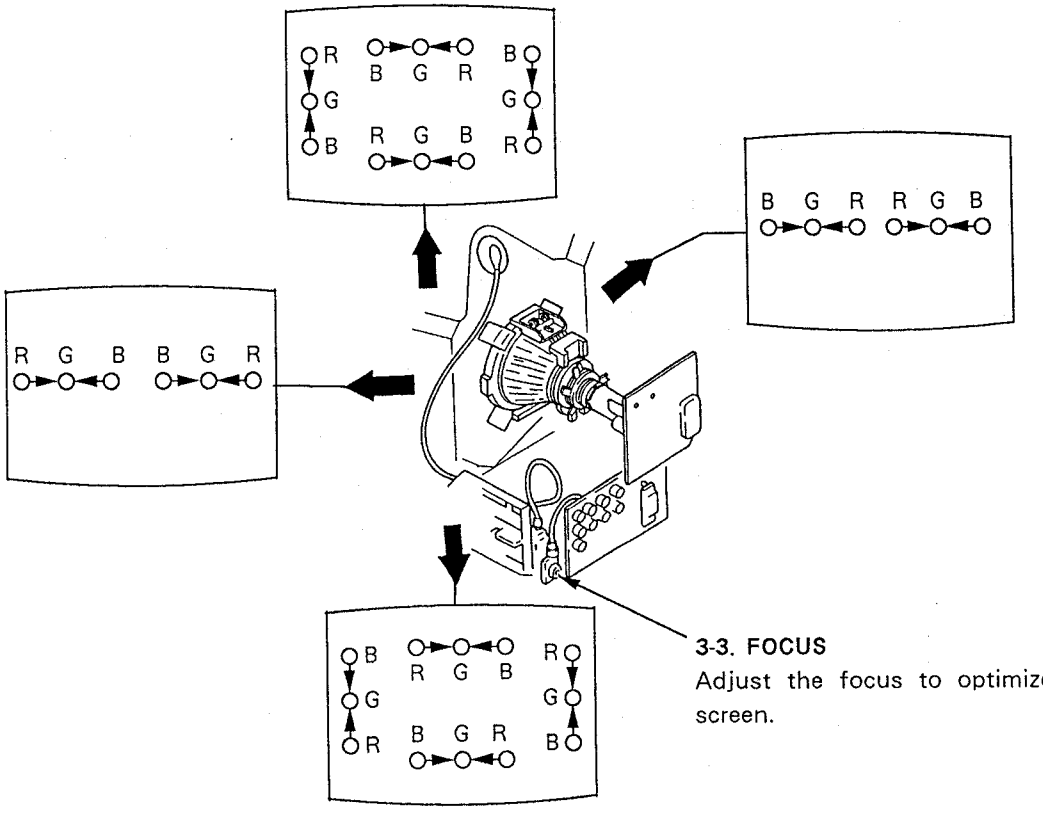


(2) Dynamic convergence adjustment

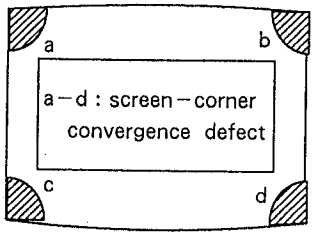
Preparations

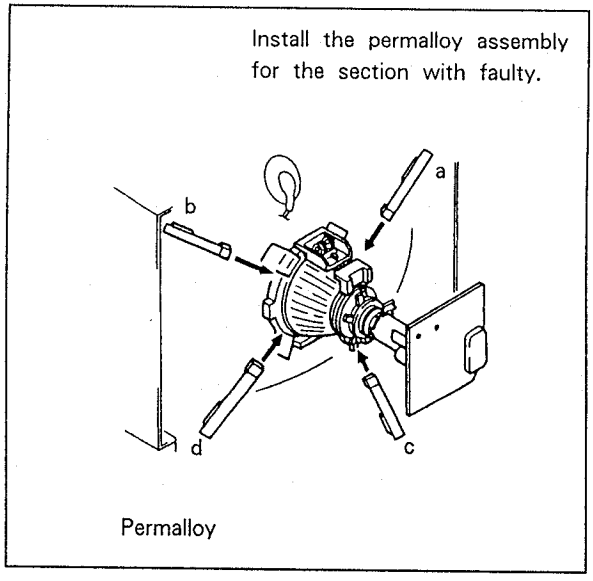
● Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.

1. Slightly loosen the deflection yoke screws.
2. Remove the deflection yoke spacer.
3. Move the deflection yoke as shown in the figure below and optimize the convergence.
4. Tighten the deflection yoke screws.
5. Install the deflection yoke spacer.



(3) Screen corner convergence





3-4. WHITE BALANCE

[Screen G2 setting]

1. Input the dot signal from the pattern generator.
2. Set the picture brightness control to its lowest level.
3. Apply 170 VDC to the R, G, and B cathodes with an external power supply.
4. While watching the picture, adjust G2 control RV701 (Screen) to the point just before the return lines disappear.

[White balance adjustment]

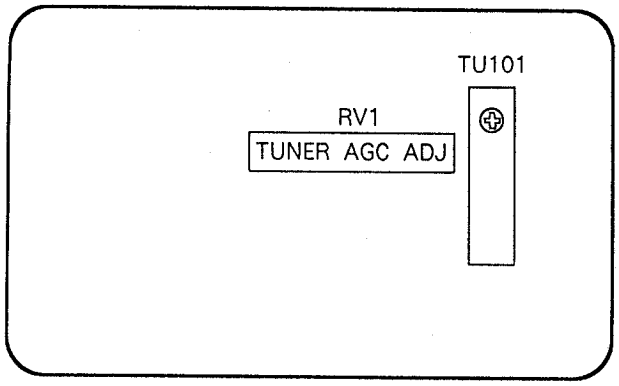
1. Input an all–white signal from the pattern generator.
2. Set the picture brightness and color controls to their normal levels.
3. Use RV704 (B Drive) and RV703 (G Drive) to adjust the white balance.

In the adjustments below, have the picture color and brightness settings at their normal levels unless there is a specific instruction to the contrary.

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

CIRCUIT ADJUSTMENTS

4-1. A BOARD ADJUSTMENTS

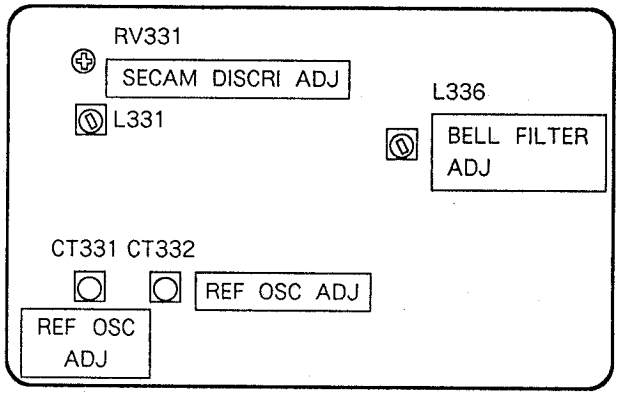


(COMPONENT SIDE)

TUNER AGC ADJUSTMENT (VIF101 RV1)

1. Align with an appropriate signal between stations.
2. Adjust RV1 so that snow noise and cross modulation just disappear from the picture.

4-2. B BOARD ADJUSTMENTS



(COMPONENT SIDE)

REFERENCE OSCILLATOR ADJUSTMENT (CT332 8.8 MHz)

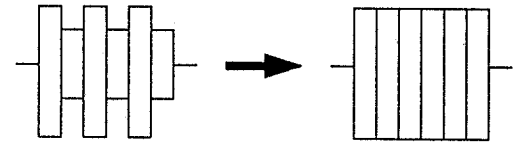
1. Input a PAL color bar signal.
2. Ground Pin ⑰ of IC331.
3. Adjust CT332 to obtain synchronization.

REFERENCE OSCILLATOR ADJUSTMENT (CT331 7.16 MHz)

1. Input an NTSC color bar signal.
2. Ground Pin ⑰ of IC331.
3. Adjust CT331 to obtain synchronization.
4. Remove the justper grounding Pin ⑰ of IC331.

BELL FILTER ADJUSTMRNT (L336)

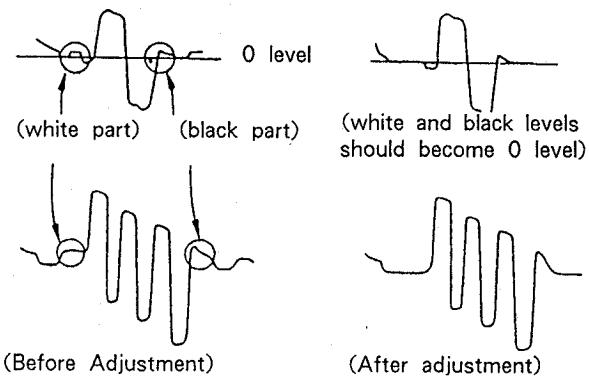
1. Input a SECAM color bar signal.
2. Connect the oscilloscope to the emitter of Q335.
3. Adjust L336 so that the waveform is flat.



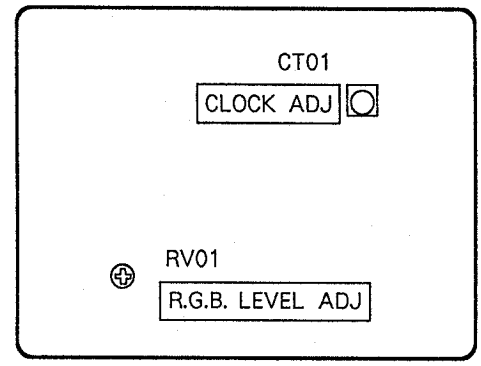
<Before Adjustment> <After Adjustment>

DISCRIMINATION ADJUSTMENT (RV331 and L331)

1. Input a SECAM color bar signal.
2. Connect the oscilloscope to Pin ① of IC331.
3. Adjust RV331 so that the white and black sections of the wave form at Pin ① come to the 0 level.
4. Connect the oscilloscope to Pin ③ of IC331.
5. Adjust L331 so that the white and black sections of the wave form at Pin ③ come to the 0 level.



4-3. V BOARD ADJUSTMENTS



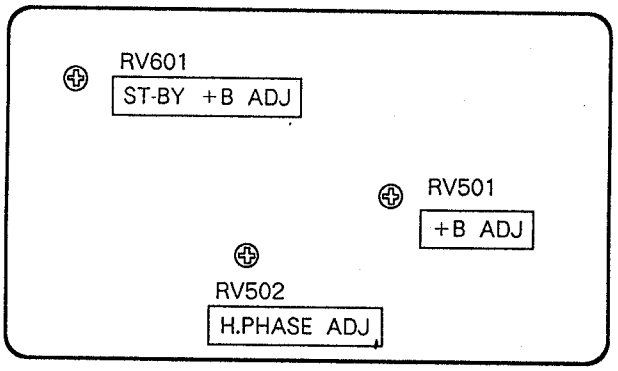
(COMPONENT SIDE)

1. Remove the V-1 connector.
2. Put the system into Text mode.
3. Adjust CT01 so that the picture does not move.

RGB LEVEL ADJUSTMENT (RV01)

1. Maximize the picture setting.
2. Adjust RV01 so that RGB output is 0.75V

4-4. D BOARD ADJUSTMENTS



+B ADJUSTMENT (RV501)

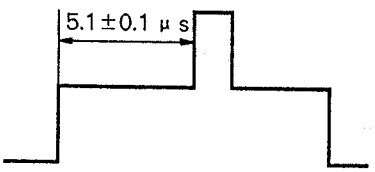
1. Connect the digital multimeter to TP91.
2. Adjust RV501 to obtain 135±0.2V.

ST-BY +B ADJUSTMENT (RV601)

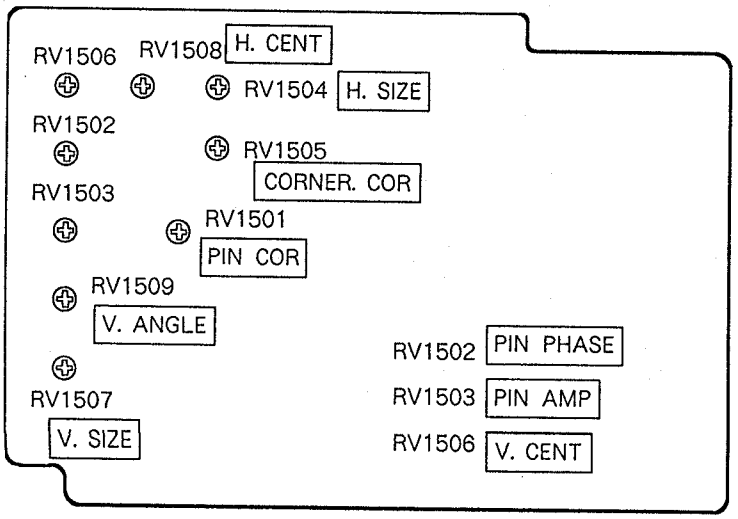
1. Put the system into ⏻ standby mode (remote commander).
2. Connect the digital multimeter to TP91.
3. Adjust RV601 to obtain 135±3V.
4. Take the system out of ⏻ standby mode (remote commander).

H.PHASE ADJUSTMENT (RV502)

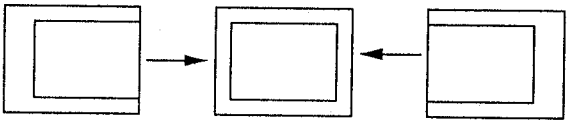
1. Input a PAL color bar signal.
2. Set the picture and brightness controls to their normal levels.
3. Set RV1508 (H. CENT) to its mechanical canter.
4. Connect the oscilloscope to pin ⑪ (SCP) of IC501.
5. Rotate RV502 to adjust to 5.1±0.1 μs.



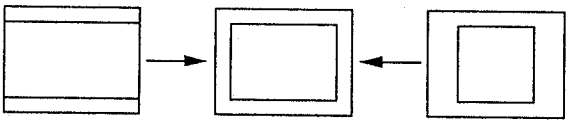
4-5. J1 BOARD ADJUSTMENTS



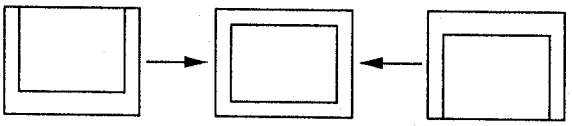
RV1508
H. CENT (HORIZONTAL CENTER)



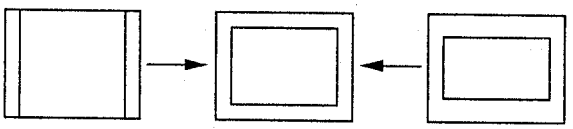
RV1504
H. SIZE (HORIZONTAL SIZE)



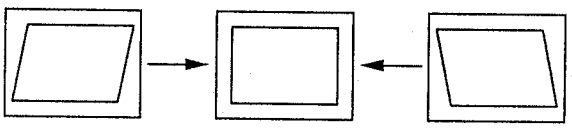
RV1506
V. CENT (VERTICAL CENTER)



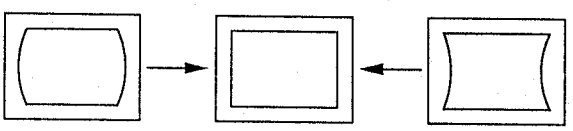
RV1507
V. SIZE (VERTICAL SIZE)



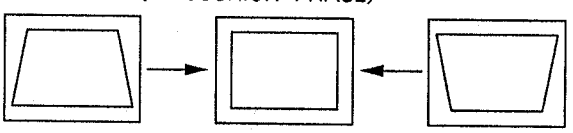
RV1509
V. ANGLE (VERTICAL ANGLE)



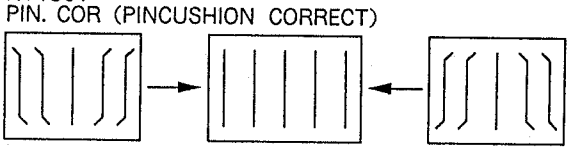
RV1503
PIN AMP (PINCUSHION AMPLIFIER)



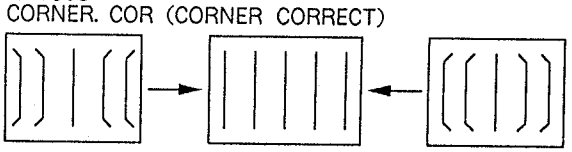
RV1502
PIN PHASE (PINCUSHION PHASE)



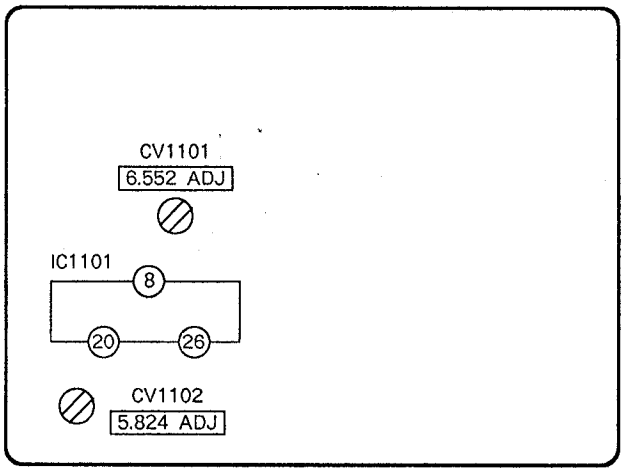
RV1501
PIN. COR (PINCUSHION CORRECT)



RV1505
CORNER. COR (CORNER CORRECT)



4-6. A1 BOARD ADJUSTMENTS



(COMPONENT SIDE)

6.552MHz (CARRIER Freq) Adjustment (CV1101)

1. Tune in a NICAM signal.
2. Connect the frequency counter to pin⑧of IC1101.
3. Adjust CV1101 so that frequency becomes 6.552MHz ±30Hz.

- Confirmation

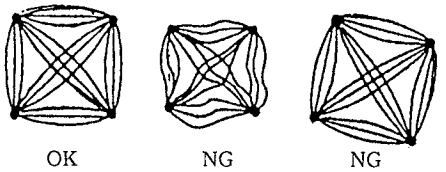
  Connect X input of oscilloscope to IC1101 pin⑲, and Y to pin⑳.

  Confirm waveform by X-Y mode.

  Confirm that waveform as OK in Fig observed cleary and without tilt.

5.824MHz (Clock Freq) Adjustment (CV1102)

1. Tune in a NICAM signal.
2. Connect the frequency counter to pin㉖of IC1101.
3. Adjust CV1102 so that frequency becomes 5.824MHz ±30Hz.



OK NG NG

4-7. SECONDARY ADJUSTMENTS

SUB BRIGHTNESS ADJUSTMENT

1. Set the system to receive a test color pattern.
2. Press →•← on the remote commander to put the system into normal mode.
3. Switch off the power.
4. While depressing the adjusting buttons + and − simultaneusly, turn on the power. (SUB mode is obtained)
5. Minimize the ◑ contrast setting.
6. Adjust the ☼ brightness control so that the qray scale O IRE section is cut off completely and the 20 IRE section is barely qlowing.
7. Depress the ◇ (store) button of the remote commander. (SUB mode is released)

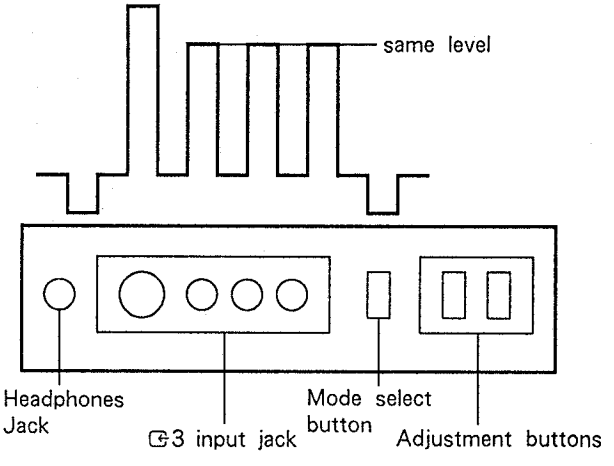
If there is no test color pattern

1. Set the system to receive a color pattern.
2. Press on the remote commander to put system into normal made.

   Set the ◑ color to its normal state.
3. −5.are the same as above.
6. Since 20 IRE is nearly blue, adjust the ☼ brightness control so that the blue barely qlows.
7. is the same as adove.
8. Press →•← on the remote commander to put the system into normal mode.

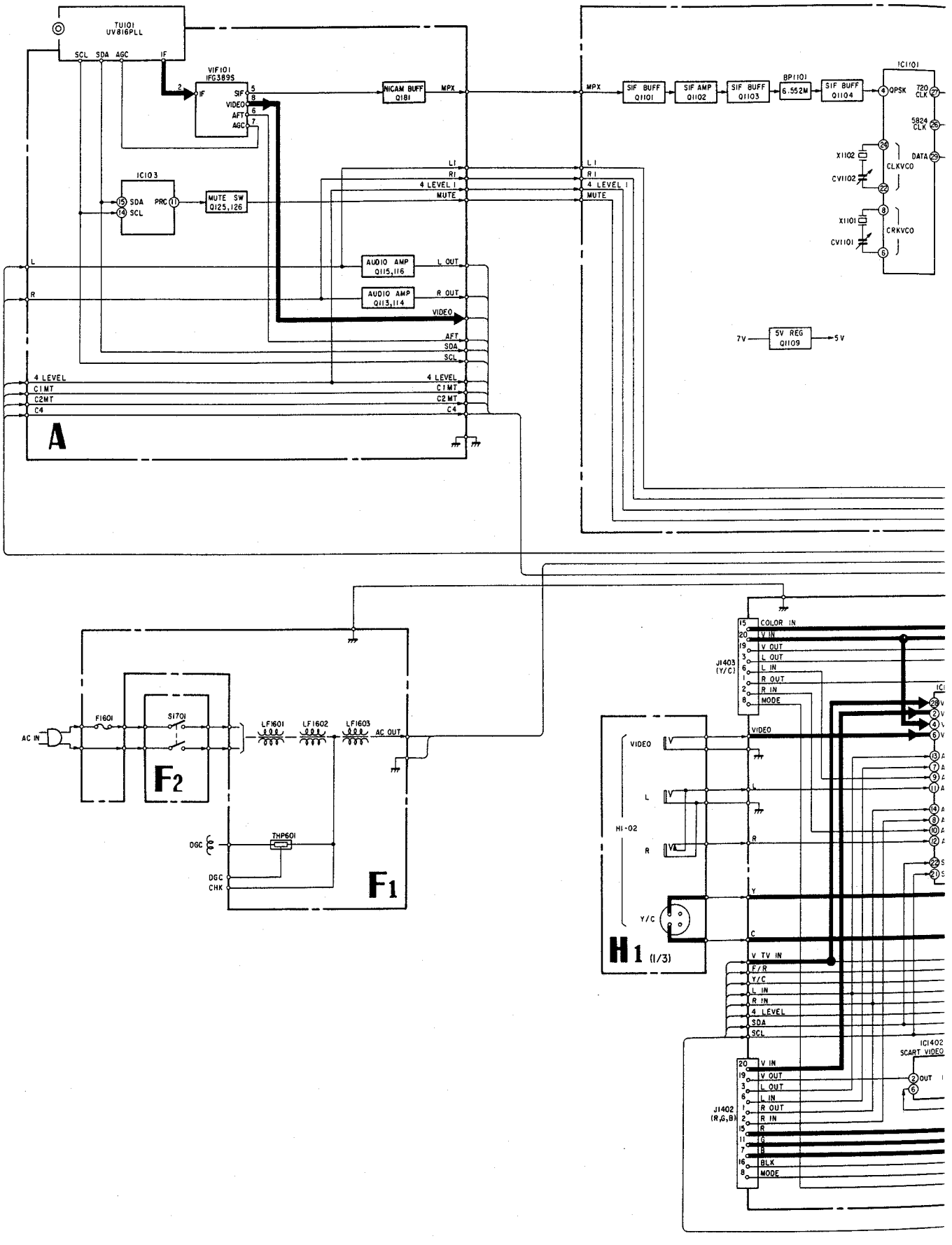
SUB COLOR ADJUSTMENT

1. Set the system to receive color bars.
2. Press →•← on the remote commander to put the system into normal mode.
3. Cut off the power.
4. While depressing the adjusting buttons + and − simultaneusly, turn on the power. (SUB mode is obtained)
5. Adjust the color control so that the B out wave form (Pin ② of C board connector CNC72) is as shown in the figure below.
6. Depress the ◇ (store) button of the remote commander. (SUB mode is released)

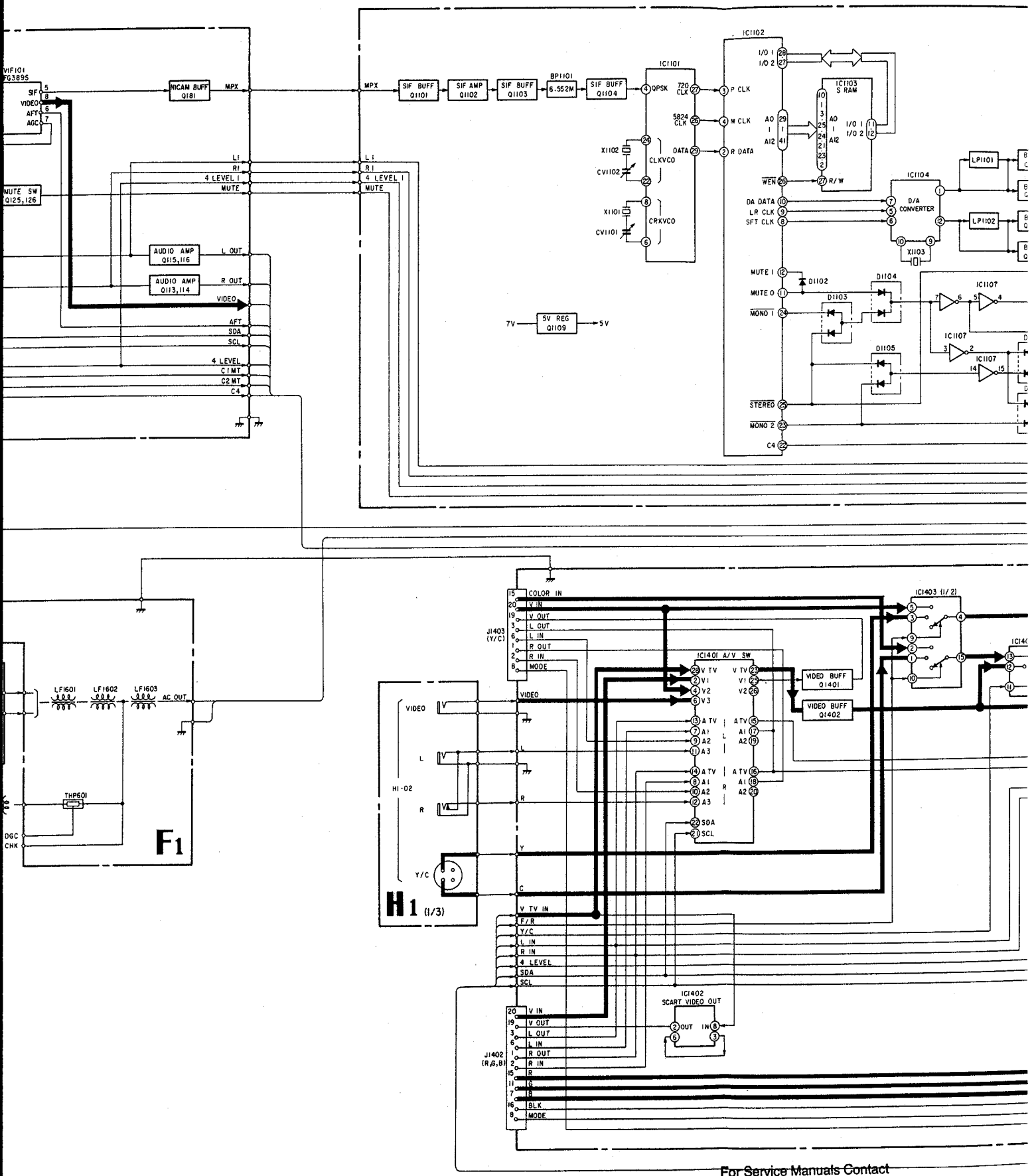


5-1. BLOCK DIAGRAM

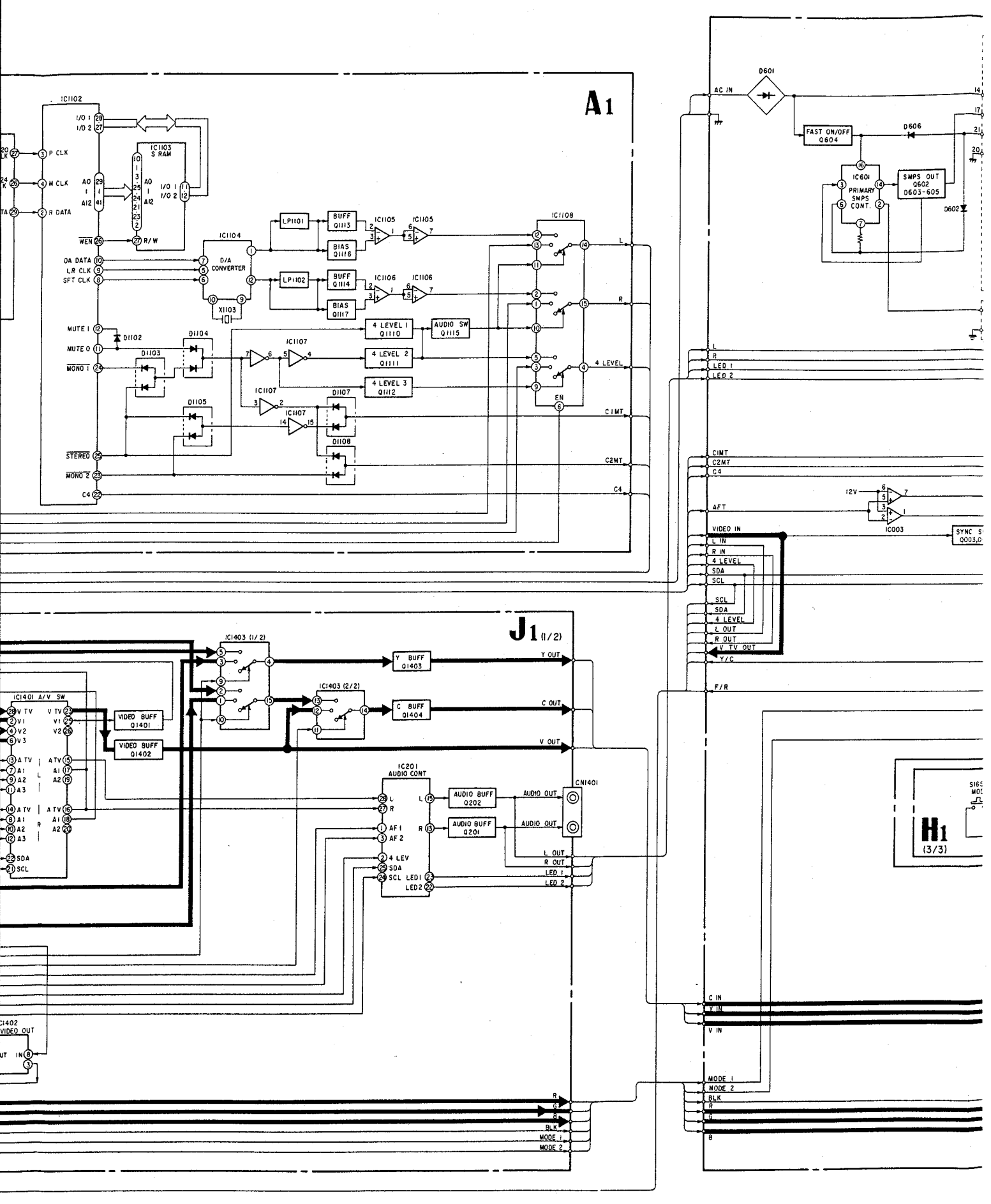
DIAGRAMS

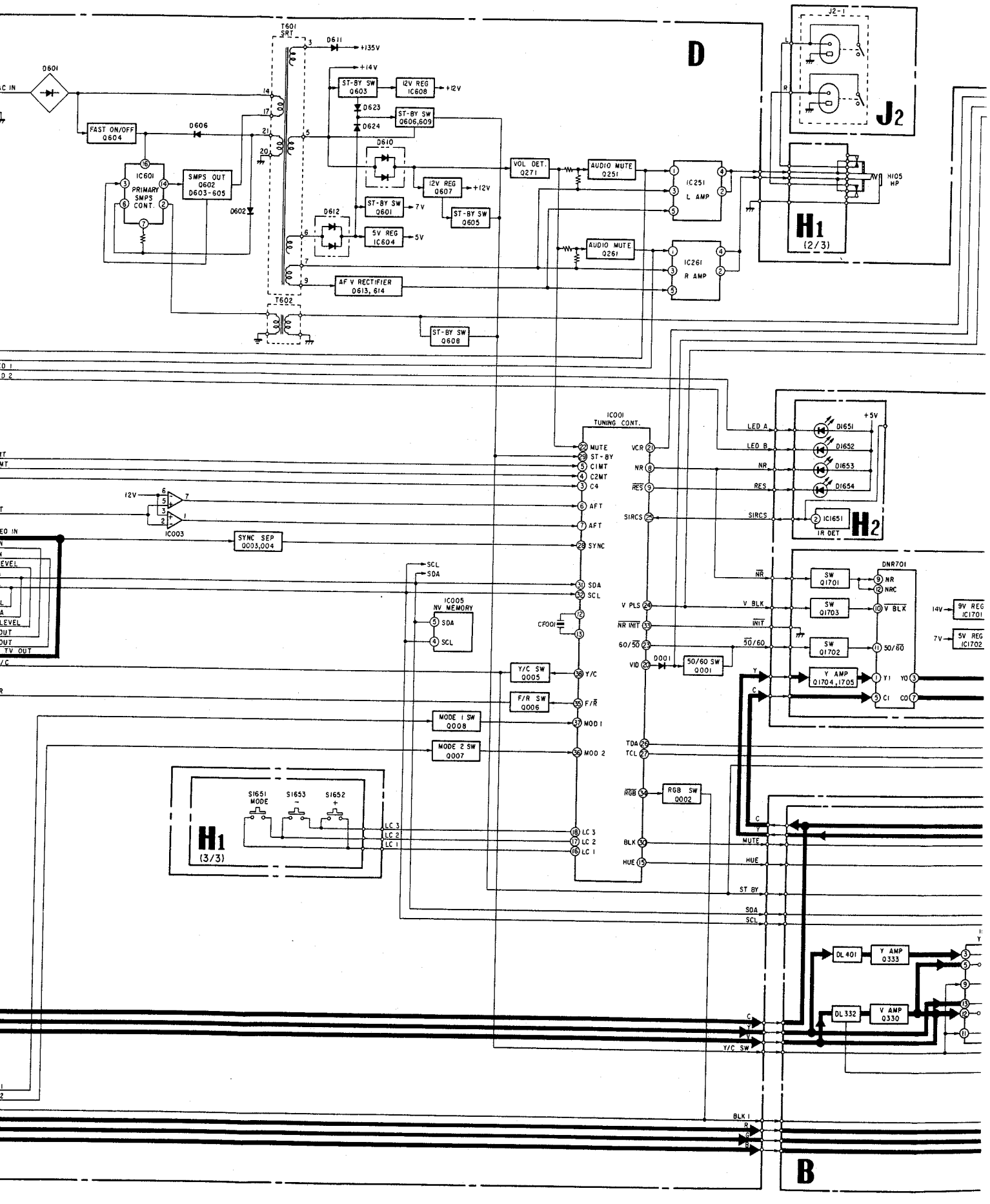


DIAGRAMS

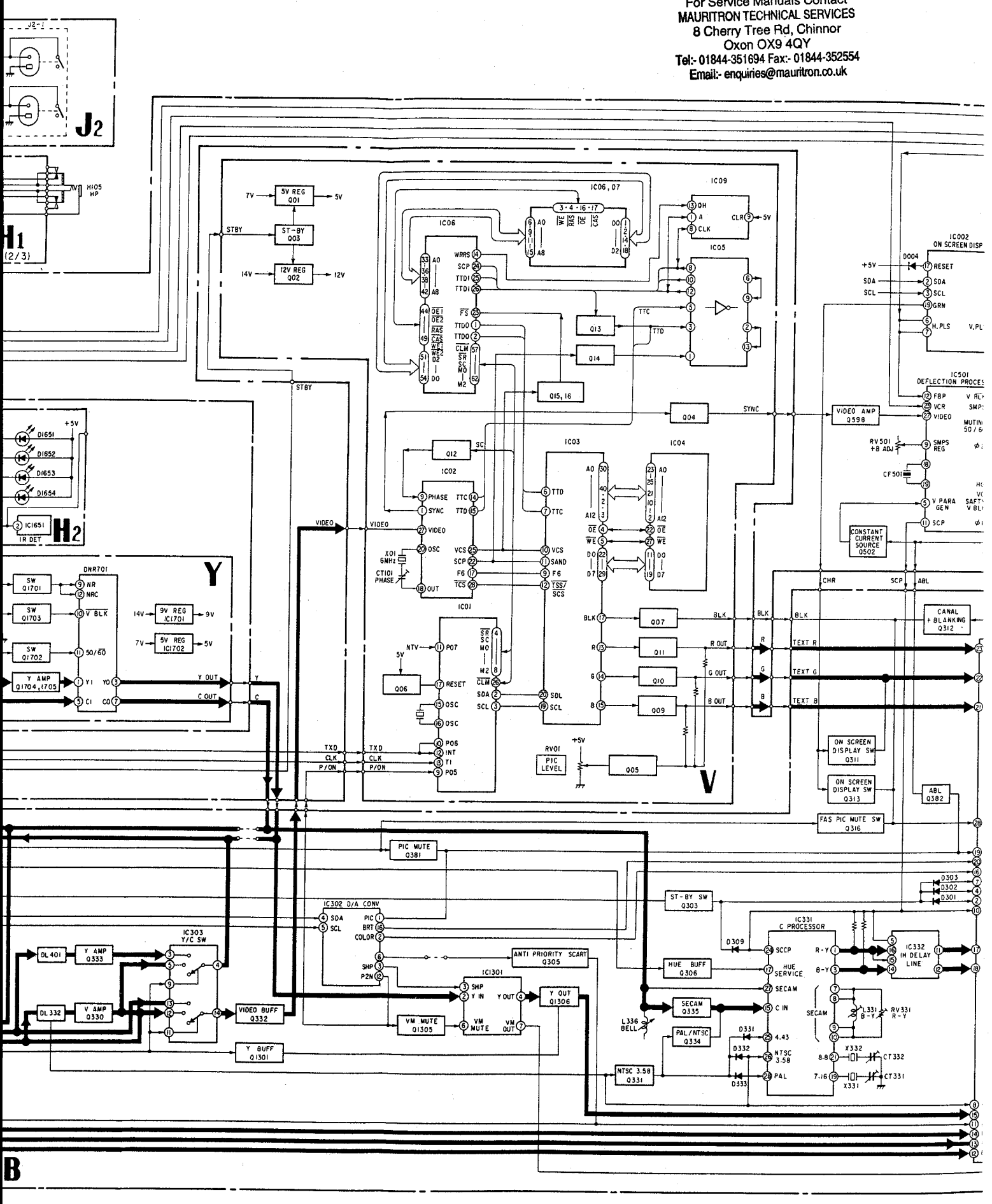


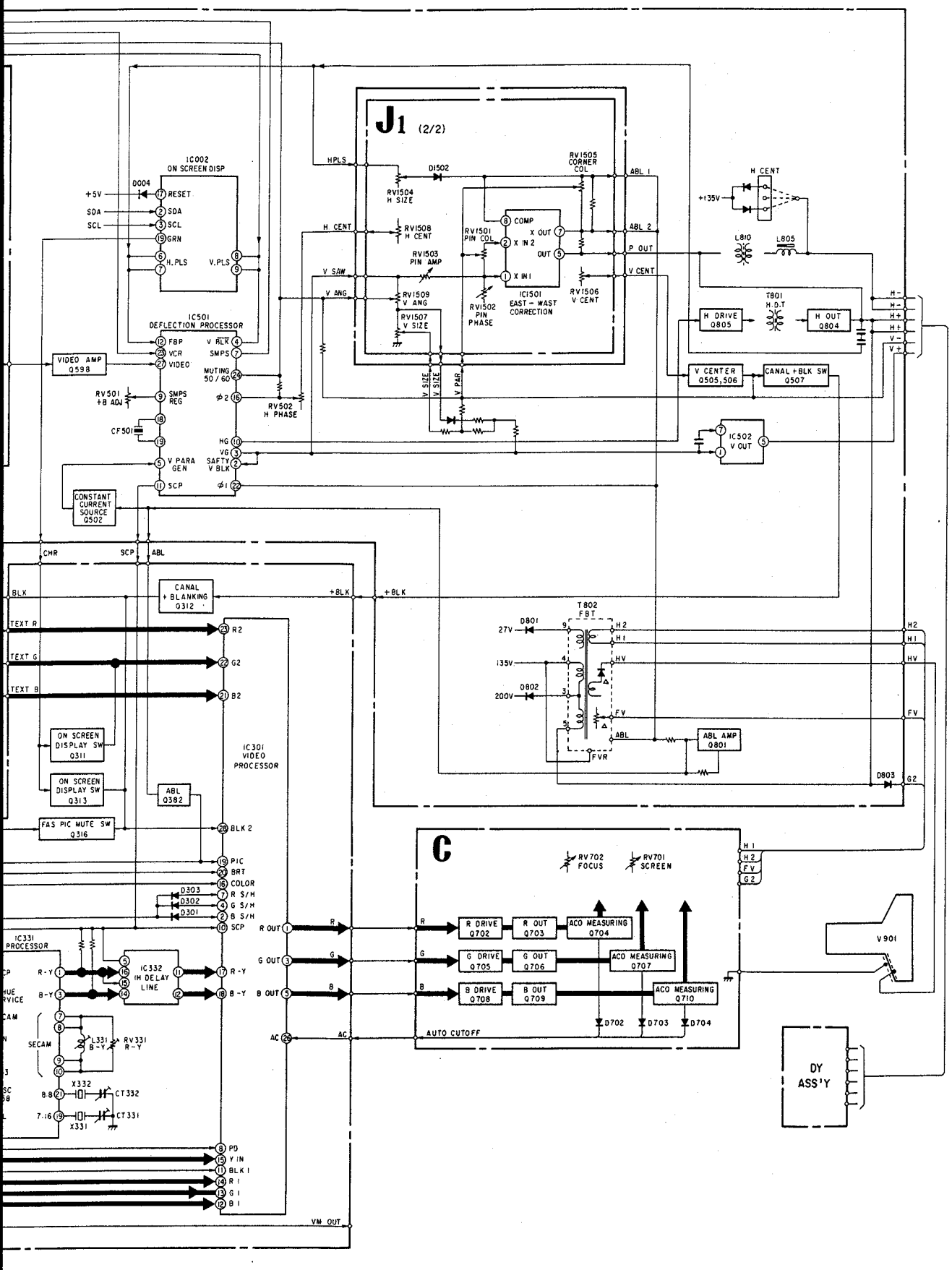
For Service Manuals Contact


A1
IC1102
I/O 1
I/O 2
P CLK
M CLK
R DATA
WEN
R/W
IC1103 S RAM
A0
A12
I/O 1
I/O 2
IC1104
D/A CONVERTER
DA DATA
LR CLK
SFT CLK
X1103
LPF1101
LPF1102
BUFF Q1113
BIAS Q1116
BUFF Q1114
BIAS Q1117
IC1105
IC1106
IC1108
L
R
4 LEVEL
EN
MUTE I
MUTE O
MONO I
D1102
D1103
D1104
D1105
D1107
D1108
IC1107
4 LEVEL 1 Q1110
4 LEVEL 2 Q1111
4 LEVEL 3 Q1112
AUDIO SW Q1115
STEREO
MONO 2
C4
C1MT
C2MT
D601
AC IN
FAST ON/OFF Q604
D606
IC601 PRIMARY SMPS CONT.
SMPS OUT Q602 Q603-605
D602
12V
IC003
AFT
VIDEO IN
L IN
R IN
4 LEVEL
SDA
SCL
L OUT
R OUT
V TV OUT
Y/C
F/R
J1 (1/2)
IC1403 (1/2)
IC1403 (2/2)
Y BUFF Q1403
C BUFF Q1404
VIDEO BUFF Q1401
VIDEO BUFF Q1402
Y OUT
C OUT
V OUT
IC1401 A/V SW
V TV
V1
V2
V3
A TV
A1
A2
A3
IC201 AUDIO CONT
AF 1
AF 2
4 LEV
LED1
LED2
AUDIO BUFF Q202
AUDIO BUFF Q201
AUDIO OUT
CN1401
L OUT
R OUT
LED 1
LED 2
C IN
Y IN
V IN
MODE 1
MODE 2
BLK
R
G
B
H1 (3/3)

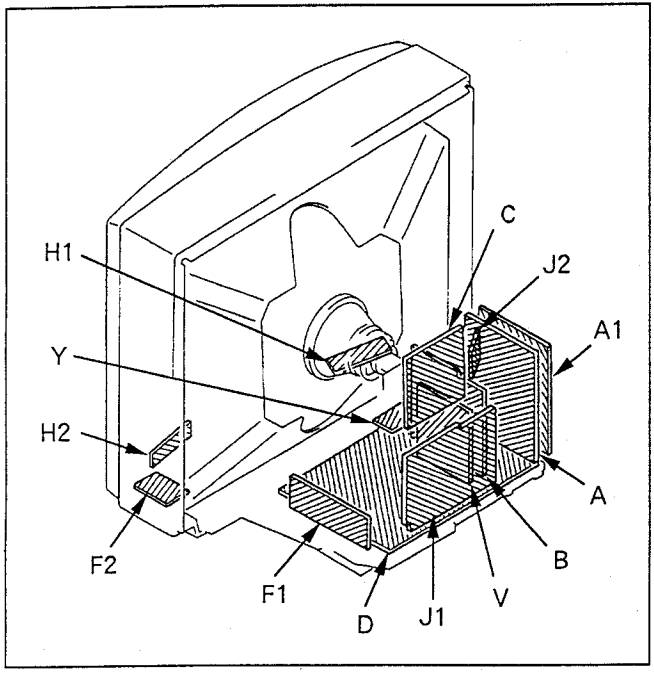

D
J2
H1
(2/3)
H2
B
T601
SRT
D611
+135V
+14V
D601
AC IN
ST-BY SW Q603
12V REG IC608
+12V
D623
D624
ST-BY SW Q606,609
FAST ON/OFF Q604
D606
D610
IC601
PRIMARY SMPS CONT.
SMPS OUT Q602 D603-605
D602
12V REG Q607
+12V
VOL DET. Q271
AUDIO MUTE Q251
IC251 L AMP
ST-BY SW Q601
7V
ST-BY SW Q605
D612
5V REG IC604
5V
AUDIO MUTE Q261
IC261 R AMP
AF V RECTIFIER D613, 614
T602
ST-BY SW Q608
J2-1
H105 HP
IC001 TUNING CONT.
MUTE
ST-BY
C1MT
C2MT
C4
AFT
AFT
SYNC
SCL
SDA
V PLS
NR INIT
60/50
VID
VCR
NR
RES
SIRCS
LED A
LED B
NR
RES
SIRCS
D1651
D1652
D1653
D1654
IC1651
IR DET
+5V
12V
IC003
SYNC SEP Q003,004
IC005 NV MEMORY
SDA
SCL
CF001
Y/C SW Q005
F/R SW Q006
MODE 1 SW Q008
MODE 2 SW Q007
S1651 MODE
S1653 −
S1652 +
LC 3
LC 2
LC 1
V BLK
INIT
50/60
50/60 SW Q001
D001
TDA
TCL
RGB
RGB SW Q002
BLK
HUE
ST BY
SDA
SCL
Y/C SW
DNR701
SW Q1701
SW Q1703
SW Q1702
Y AMP Q1704,1705
NR
NRC
V BLK
50/60
9V REG IC1701
5V REG IC1702
14V
7V
DL 401
Y AMP Q333
DL 332
V AMP Q330
MUTE
HUE
BLK 1

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




J1 (2/2)
IC002
ON SCREEN DISP
IC501
DEFLECTION PROCESSOR
IC331
PROCESSOR
IC332
1H DELAY LINE
IC1501
EAST - WAST CORRECTION
IC301
VIDEO PROCESSOR
IC502
V OUT
C
VIDEO AMP Q598
CONSTANT CURRENT SOURCE Q502
CANAL + BLANKING Q312
ON SCREEN DISPLAY SW Q311
ON SCREEN DISPLAY SW Q313
ABL Q382
FAS PIC MUTE SW Q316
H DRIVE Q805
H OUT Q804
V CENTER Q505,506
CANAL + BLK SW Q507
ABL AMP Q801
R DRIVE Q702
R OUT Q703
G DRIVE Q705
G OUT Q706
B DRIVE Q708
B OUT Q709
ACO MEASURING Q704
ACO MEASURING Q707
ACO MEASURING Q710
DY ASS'Y
V901
AUTO CUTOFF
SECAM
HPLS
V SAW
V ANG
H CENT
V SIZE
V PAR
ABL 1
ABL 2
P OUT
V CENT
+5V
SDA
SCL
H.PLS
V.PLS
VCR
VIDEO
SMPS REG
V PARA GEN
SCP
CHR
ABL
BLK
+BLK
TEXT R
TEXT G
TEXT B
R2
G2
B2
PIC
BRT
COLOR
R S/H
G S/H
B S/H
BLK 2
PD
Y IN
BLK I
R I
G I
B I
VM OUT
R OUT
G OUT
B OUT
AC
R-Y
B-Y
X332
X331
CT332
CT331
L331 B-Y
RV331 R-Y
RV1504 H SIZE
RV1505 CORNER COL
RV1508 H CENT
RV1501 PIN COL
RV1503 PIN AMP
RV1509 V ANG
RV1507 V SIZE
RV1502 PIN PHASE
RV1506 V CENT
RV501 +B ADJ
RV502 H PHASE
CF501
D1502
D0004
D0303
D0302
D0301
D801
D802
D803
D702
D703
D704
T802 FBT
T801 H.D.T
L810
L805
H CENT
+135V
27V
135V
200V
RV702 FOCUS
RV701 SCREEN
H1
H2
FV
G2
HV
FVR

5-2. CIRCUIT BOARDS LOCATION



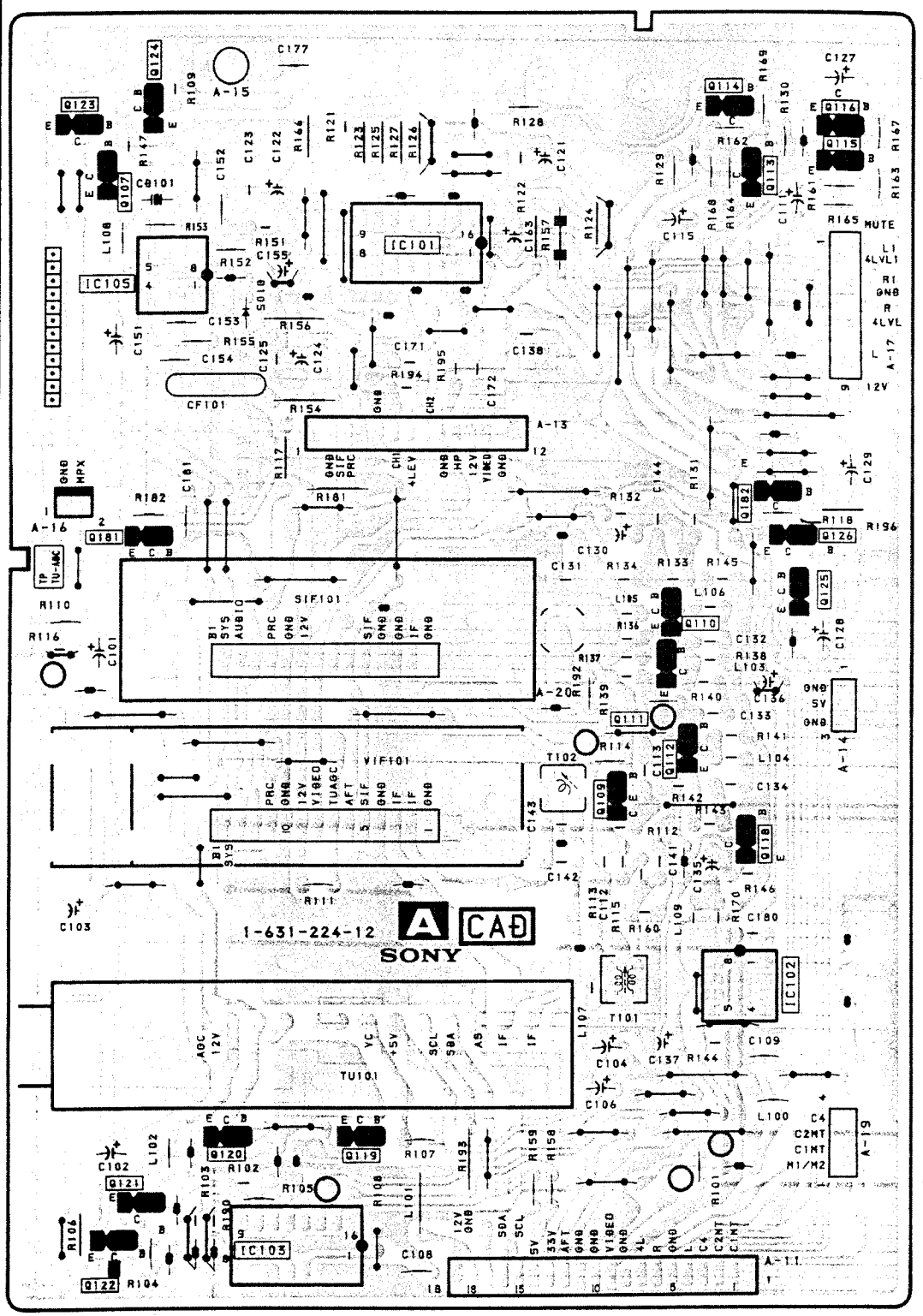
Reference information

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

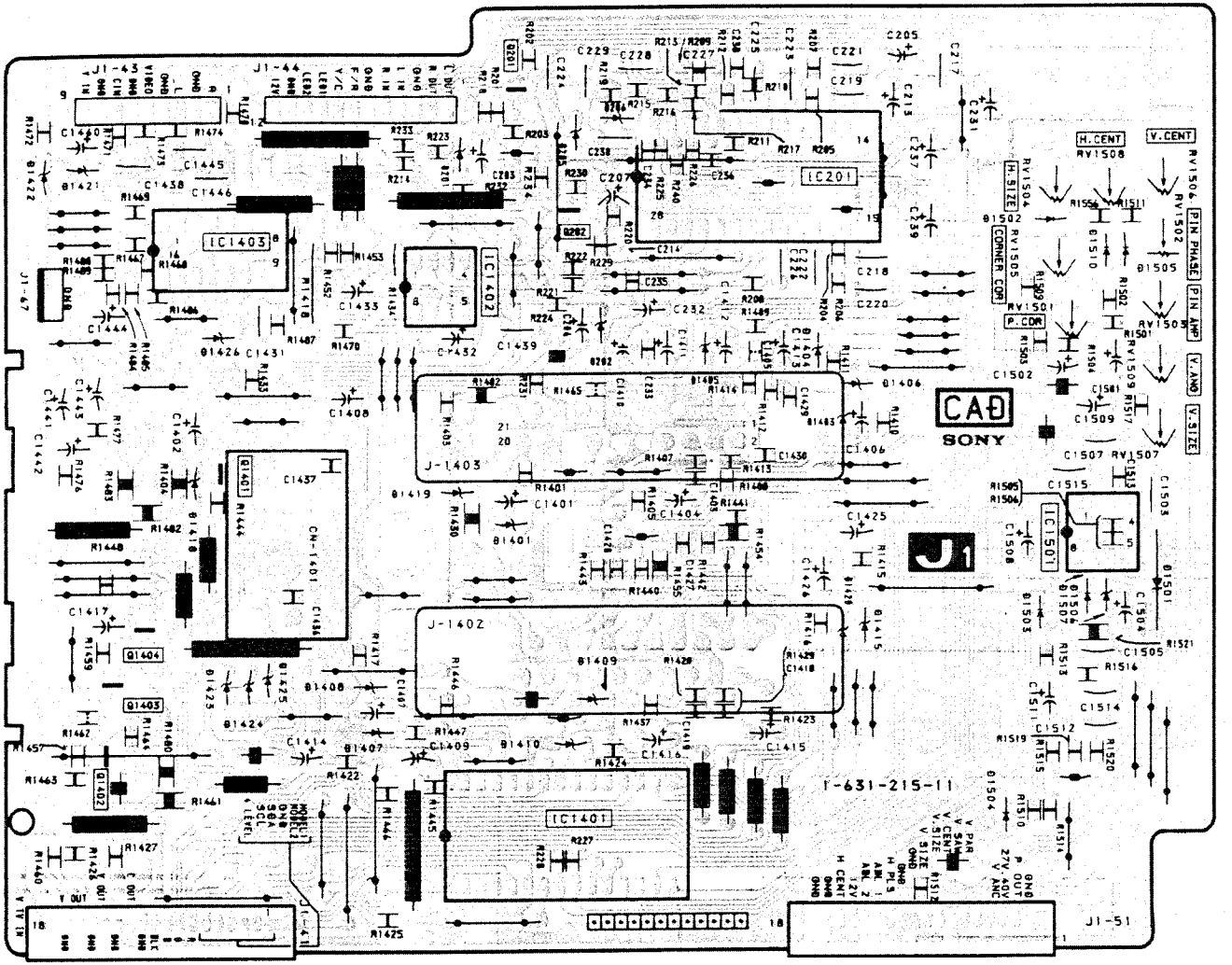
Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

[AUDIO CONTROL, AV INPUT, SCART VIDEO OUT, EAST-WEST CORRCTION] **J2** [SPEAKER TERMINAL] **Y** [NOISE REDUCTION]

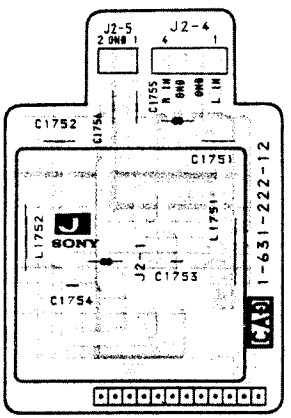
–A Board–



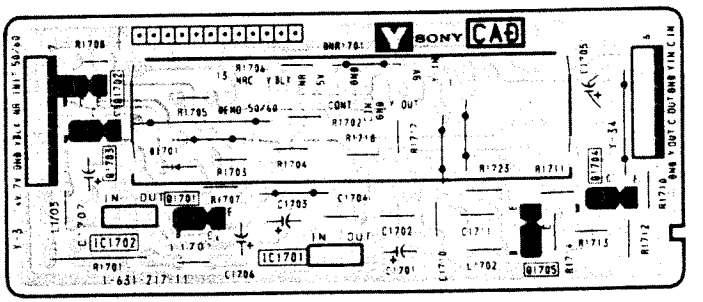
–J1 Board–

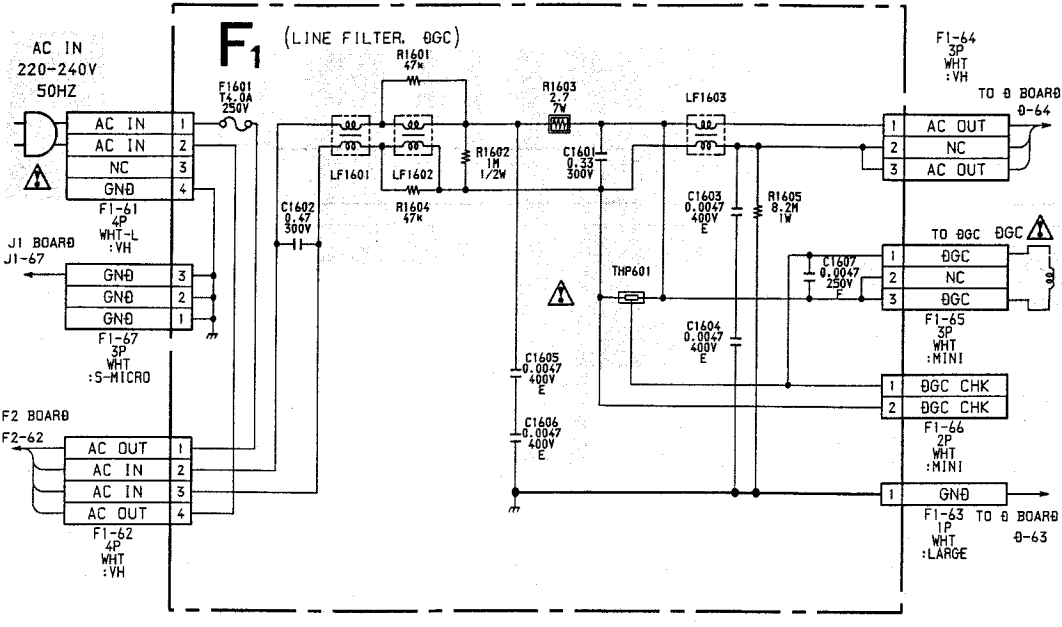


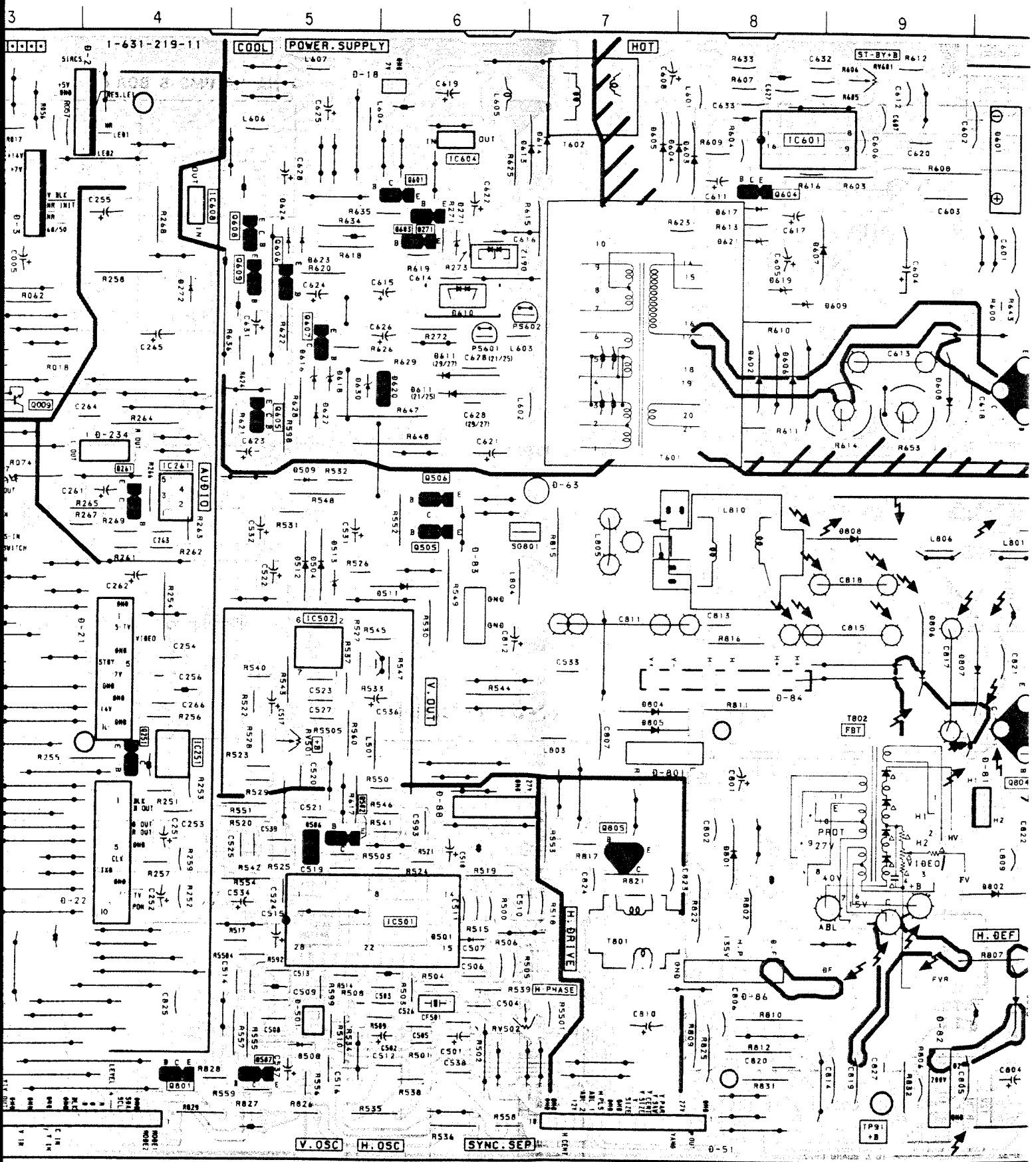
–J2 Board–

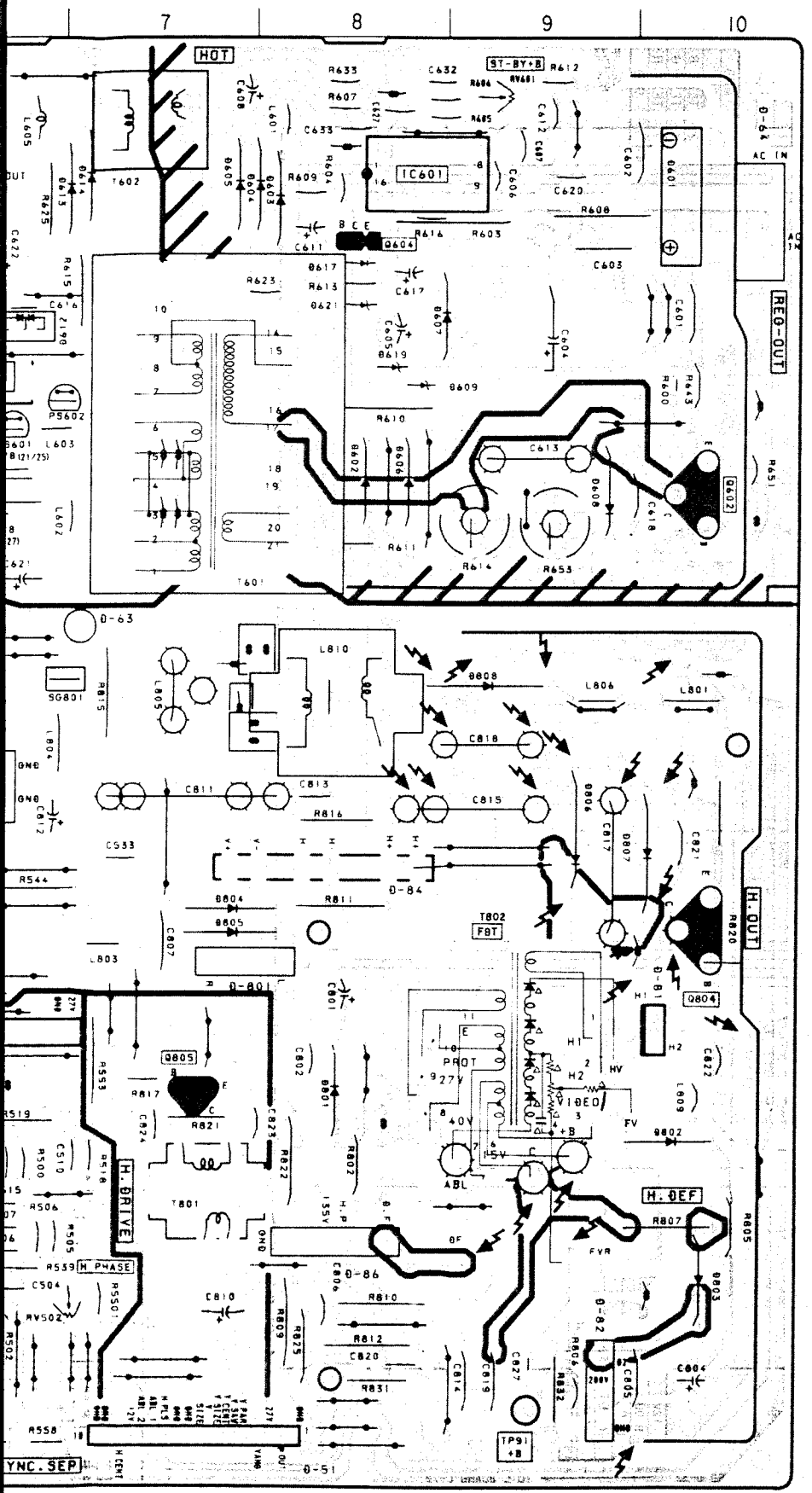


–Y Board–




F1
(LINE FILTER, ØGC)
AC IN
220-240V
50HZ
AC IN
AC IN
NC
GNØ
F1-61
4P
WHT-L
:VH
F1601
T4.0A
250V
R1601
47K
R1602
1W
1/2W
R1603
2.7
7W
LF1603
LF1601
LF1602
R1604
47K
C1601
0.33
300V
C1602
0.47
300V
C1603
0.0047
400V
E
R1605
8.2M
1W
C1604
0.0047
400V
E
C1605
0.0047
400V
E
C1606
0.0047
400V
E
C1607
0.0047
250V
E
THP601
F1-64
3P
WHT
:VH
TO Ø BOARØ
Ø-64
AC OUT
NC
AC OUT
TO ØGC
ØGC
ØGC
NC
ØGC
F1-65
3P
WHT
:MINI
ØGC CHK
ØGC CHK
F1-66
2P
WHT
:MINI
GNØ
F1-63
1P
WHT
:LARGE
TO Ø BOARØ
Ø-63
TO J1 BOARØ
J1-67
GNØ
GNØ
GNØ
F1-67
3P
WHT
:S-MICRO
TO F2 BOARØ
F2-62
AC OUT
AC IN
AC IN
AC OUT
F1-62
4P
WHT
:VH


1-631-219-11
COOL
POWER.SUPPLY
HOT
AUDIO
V.OUT
H.DRIVE
H.DEF
H-PHASE
V.OSC
H.OSC
SYNC.SEP
FBT
PROT
ABL
IC601
IC604
IC608
IC261
IC502
IC501
IC251
Q601
Q602
Q603
Q604
Q605
Q606
Q607
Q608
Q609
Q801
Q802
Q803
Q804
Q805
Q506
Q505
T601
T602
T801
T802
PS601
PS602
SG801
RY502
CF501
TP91 +B



D BOARD

IC

IC001	B-1
IC002	C-2
IC003	C-1
IC005	F-1
IC251	E-4
IC261	C-4
IC501	F-6
IC502	D-5
IC601	A-8
IC604	A-6
IC608	B-4

TRANSISTOR

Q001	B-3
Q002	B-1
Q003	D-1
Q004	D-1
Q005	B-1
Q006	B-1
Q007	B-1
Q008	B-1
Q009	C-3
Q251	E-4
Q261	C-4
Q271	B-6
Q502	F-5
Q505	D-6
Q506	C-6
Q507	G-5
Q598	G-1
Q601	B-6
Q602	C-10
Q603	B-6
Q604	B-8
Q605	C-5
Q606	B-5
Q607	B-5
Q608	B-5
Q609	B-5
Q801	G-4
Q804	E-10
Q805	F-7

DIODE

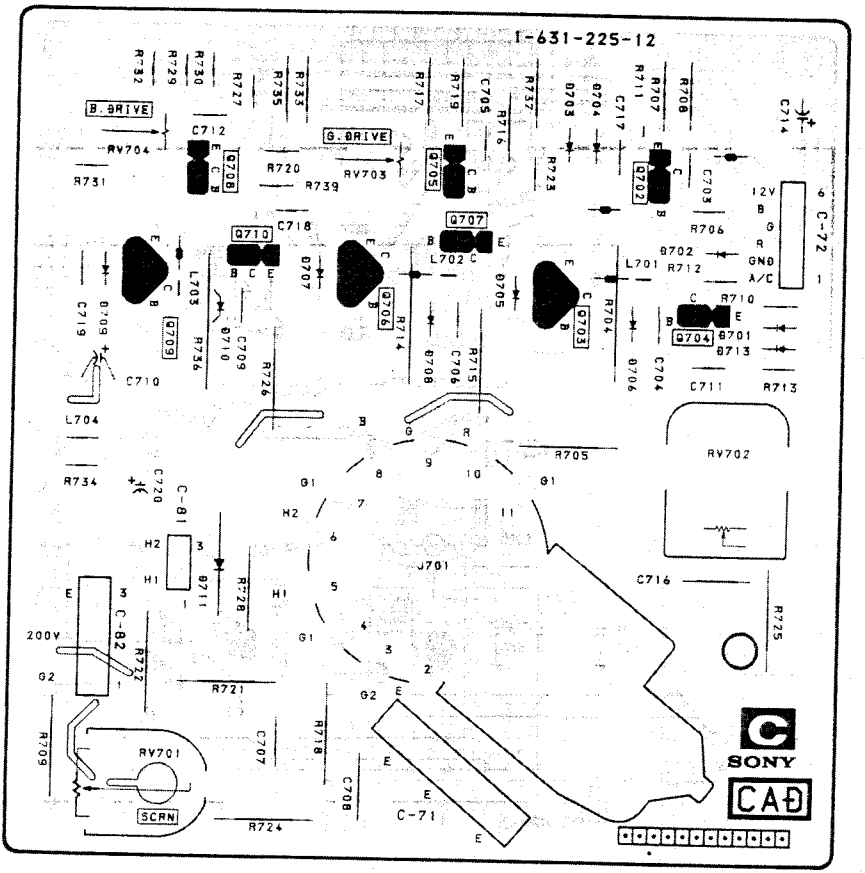
D001	A-3
D002	B-3
D003	A-3
D004	C-2
D005	G-1
D006	E-1
D007	A-2
D009	E-1
D010	B-2
D011	B-2
D271	B-6
D272	B-4
D501	F-6
D504	D-5
D506	F-5
D508	G-5
D509	C-5
D511	D-6
D512	D-5
D513	D-5
D601	A-10
D602	C-8
D603	A-8
D604	A-7
D605	A-7
D606	C-8
D607	B-8
D608	C-9
D609	B-8
D610	B-6
D611	C-6
D612	B-6
D613	A-6
D614	A-7
D616	C-5
D617	B-8
D618	C-5
D619	B-8
D620	C-6
D621	B-8
D622	C-5
D623	B-5
D624	B-5
D630	C-5
D801	F-8
D802	F-10
D803	G-10
D804	E-7
D805	E-7
D806	E-9
D807	E-10
D808	D-9

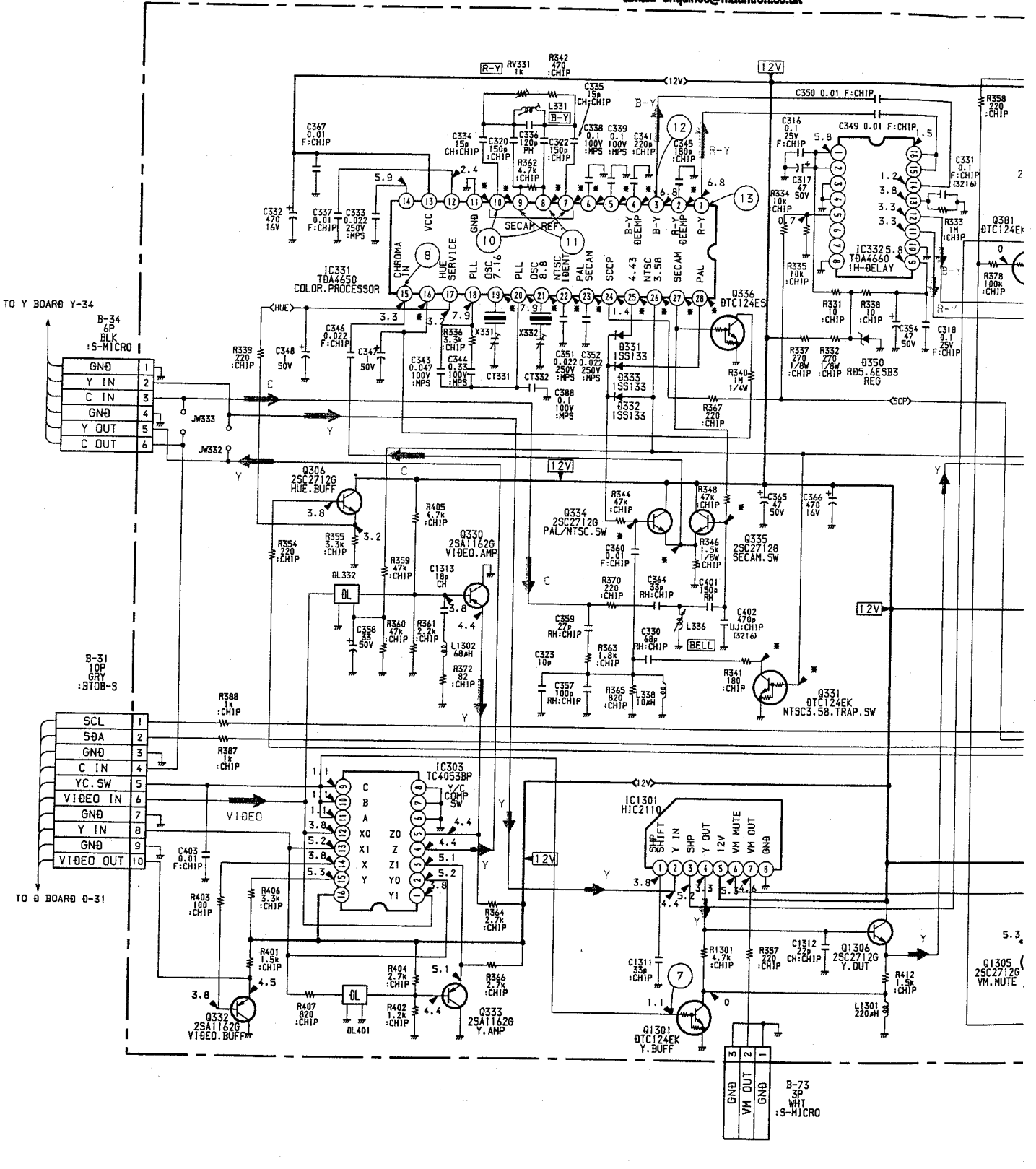
VARIABLE RESISTOR

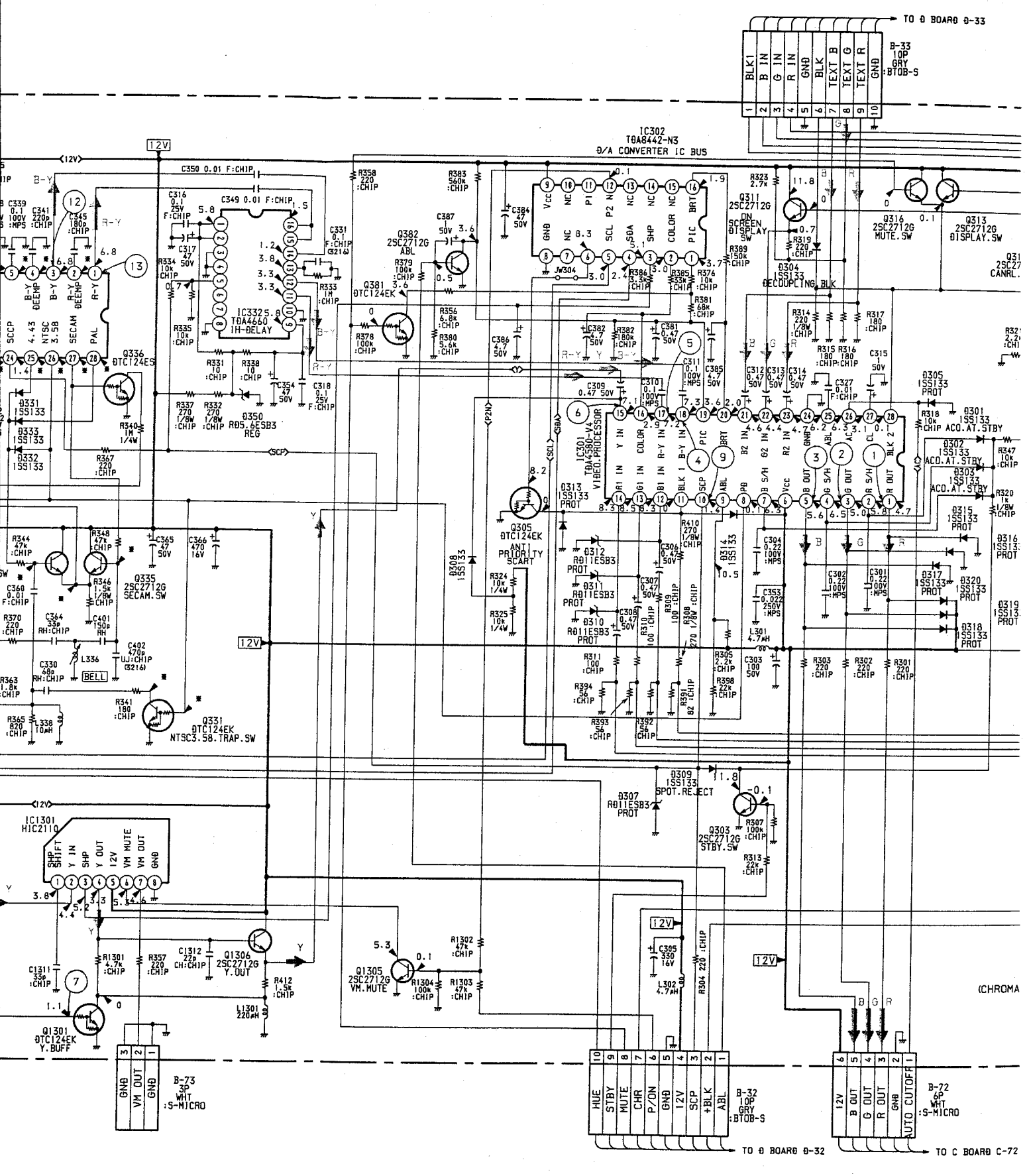
RV501	E-5
RV502	G-6
RV601	A-9

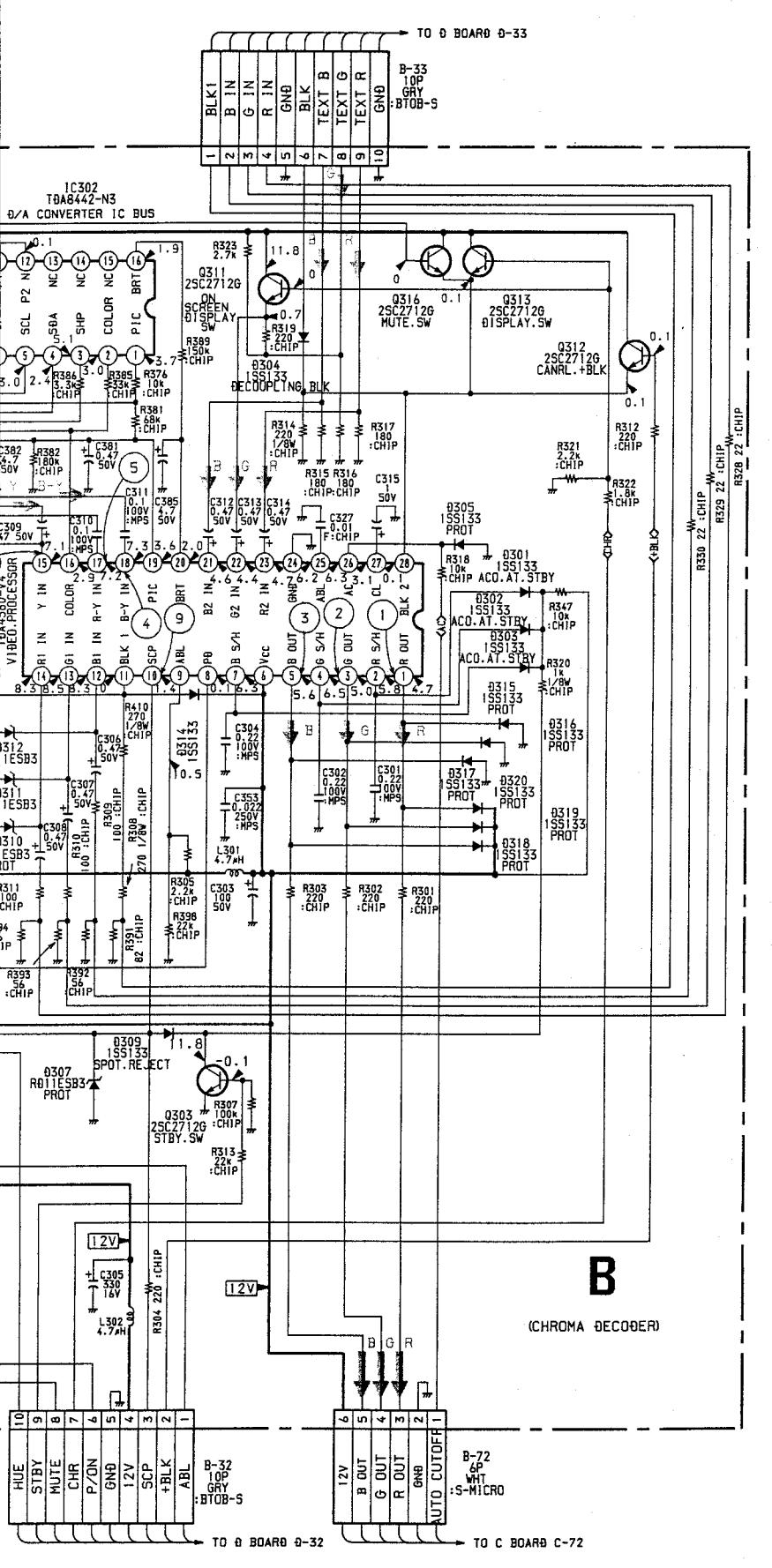
C [R・G・B OUT]

—C Board—

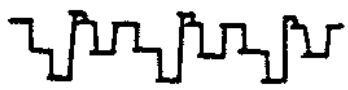
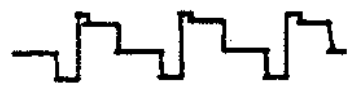
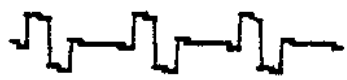



IC331
TDA4650
COLOR.PROCESSOR
IC3325.8
TDA4660
1H-DELAY
IC303
TC4053BP
Y/C COMB SW
IC1301
HIC2110
Q330
2SA1162G
VIDEO.AMP
Q331
DTC124EK
NTSC3.58.TRAP.SW
Q332
2SA1162G
VIDEO.BUFF
Q333
2SA1162G
Y.AMP
Q334
2SC2712G
PAL/NTSC.SW
Q335
2SC2712G
SECAM.SW
Q336
DTC124ES
Q1301
DTC124EK
Y.BUFF
Q1305
2SC2712G
VM.MUTE
Q1306
2SC2712G
Y.OUT
Q306
2SC2712G
HUE.BUFF
Q381
DTC124EK
B-34
6P
BLK
:S-MICRO
B-31
10P
GRY
:BTOB-S
B-73
3P
WHT
:S-MICRO
TO Y BOARD Y-34
TO B BOARD B-31
SECAM REF
VIDEO
12V
5V
GND
Y IN
C IN
Y OUT
C OUT
SCL
SDA
VIDEO IN
YC.SW
VIDEO OUT
VM OUT
SHP
SHIFT
BELL
DL
DL401


TO Θ BOARΘ Θ-33
B-33
10P
GRY
:BTOB-S
BLK
B IN
G IN
R IN
GNΘ
BLK
TEXT B
TEXT G
TEXT R
GNΘ
IC302
TΘA8442-N3
Θ/A CONVERTER IC BUS
12V
C350 0.01 F:CHIP
IC3325-8
TΘA4660
1H-ΘELAY
Q336
ΘTC124ES
Q335
2SC2712G
SECAM.SW
Q331
ΘTC124EK
NTSC3.58.TRAP.SW
IC1301
HIC2110
SHP SHIFT
Y IN
SHP
Y OUT
12V
VM MUTE
VM OUT
GNΘ
Q1301
ΘTC124EK
Y.BUFF
Q1306
2SC2712G
Y.OUT
Q1305
2SC2712G
VM.MUTE
Q382
2SC2712G
ABL
Q381
ΘTC124EK
Q305
ΘTC124EK
ANTI
PRIORITY
SCART
IC1301
TΘA4580-V4
VIΘΕΟ.PROCESSOR
Q311
2SC2712G
ΘN
SCREEN
ΘISPLAY
SW
Q316
2SC2712G
MUTE.SW
Q313
2SC2712G
ΘISPLAY.SW
Q303
2SC2712G
STBY.SW
Θ304
1SS133
ΘECOUPLING.BLK
Θ309
1SS133
SPOT.REJECT
Θ307
RΘ11ESB3
PROT
Θ312
RΘ11ESB3
PROT
Θ311
RΘ11ESB3
PROT
Θ310
RΘ11ESB3
PROT
Θ313
1SS133
PROT
Θ308
1SS133
Θ305
1SS133
PROT
Θ301
1SS133
ACΘ.AT.STBY
Θ302
1SS133
ACΘ.AT.STBY
Θ303
1SS133
ACΘ.AT.STBY
Θ315
1SS133
PROT
Θ316
1SS133
PROT
Θ317
1SS133
PROT
Θ320
1SS133
PROT
Θ319
1SS133
PROT
Θ318
1SS133
PROT
L336
BELL
L301
4.7mH
L302
4.7mH
L1301
220mH
B-73
3P
WHT
:S-MICRΘ
GNΘ
VM OUT
GNΘ
B-32
10P
GRY
:BTOB-S
HUE
STBY
MUTE
CHR
P/ΘN
GNΘ
12V
SCP
+BLK
ABL
TO Θ BOARΘ Θ-32
B-72
6P
WHT
:S-MICRΘ
12V
B OUT
G OUT
R OUT
GNΘ
AUTO CUTOFF
TO C BOARΘ C-72
(CHROMA

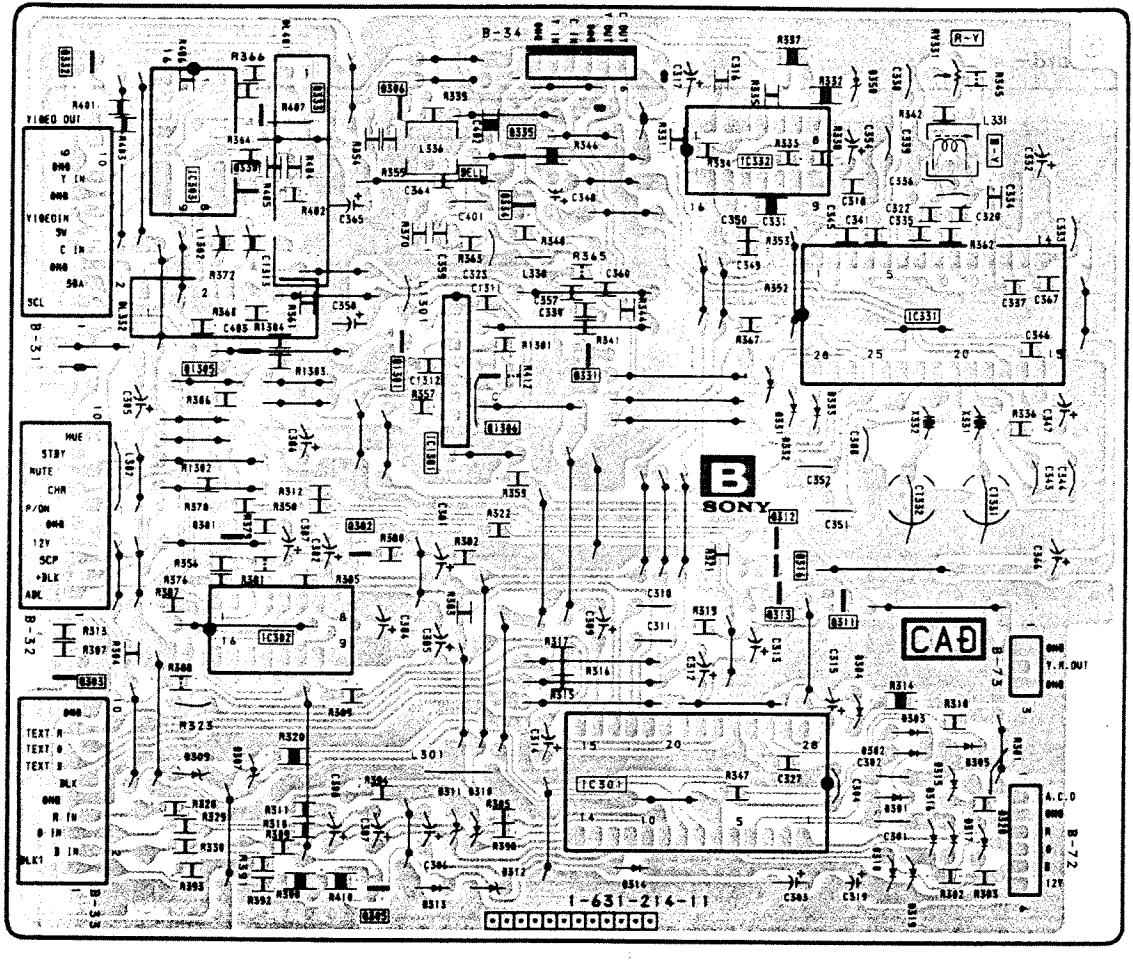

TO B BOARD B-33
B-33
10P
GRY
:BTOB-S
BLK1
B IN
G IN
R IN
GND
BLK
TEXT B
TEXT G
TEXT R
GND
IC302
T0A8442-N3
D/A CONVERTER IC BUS
Q311
2SC2712G
ON SCREEN DISPLAY SW
Q316
2SC2712G
MUTE.SW
Q313
2SC2712G
DISPLAY.SW
Q312
2SC2712G
CANRL.+BLK
D304
1SS133
DECOUPLING BLK
D305
1SS133
PROT
D301
1SS133
ACO.AT.STBY
D302
1SS133
ACO.AT.STBY
D303
1SS133
ACO.AT.STBY
D315
1SS133
PROT
D316
1SS133
PROT
D317
1SS133
PROT
D320
1SS133
PROT
D319
1SS133
PROT
D318
1SS133
PROT
D309
1SS133
SPOT.REJECT
D307
RD11ESB3
PROT
Q303
2SC2712G
STBY.SW
12V
B
(CHROMA DECODER)
B G R
B-32
10P
GRY
:BTOB-S
HUE
STBY
MUTE
CHR
P/ON
GND
12V
SCP
+BLK
ABL
B-72
6P
WHT
:S-MICRO
12V
B OUT
G OUT
R OUT
GND
AUTO CUTOFF
TO B BOARD B-32
TO C BOARD C-72

• WAVEFORMS B BOARD

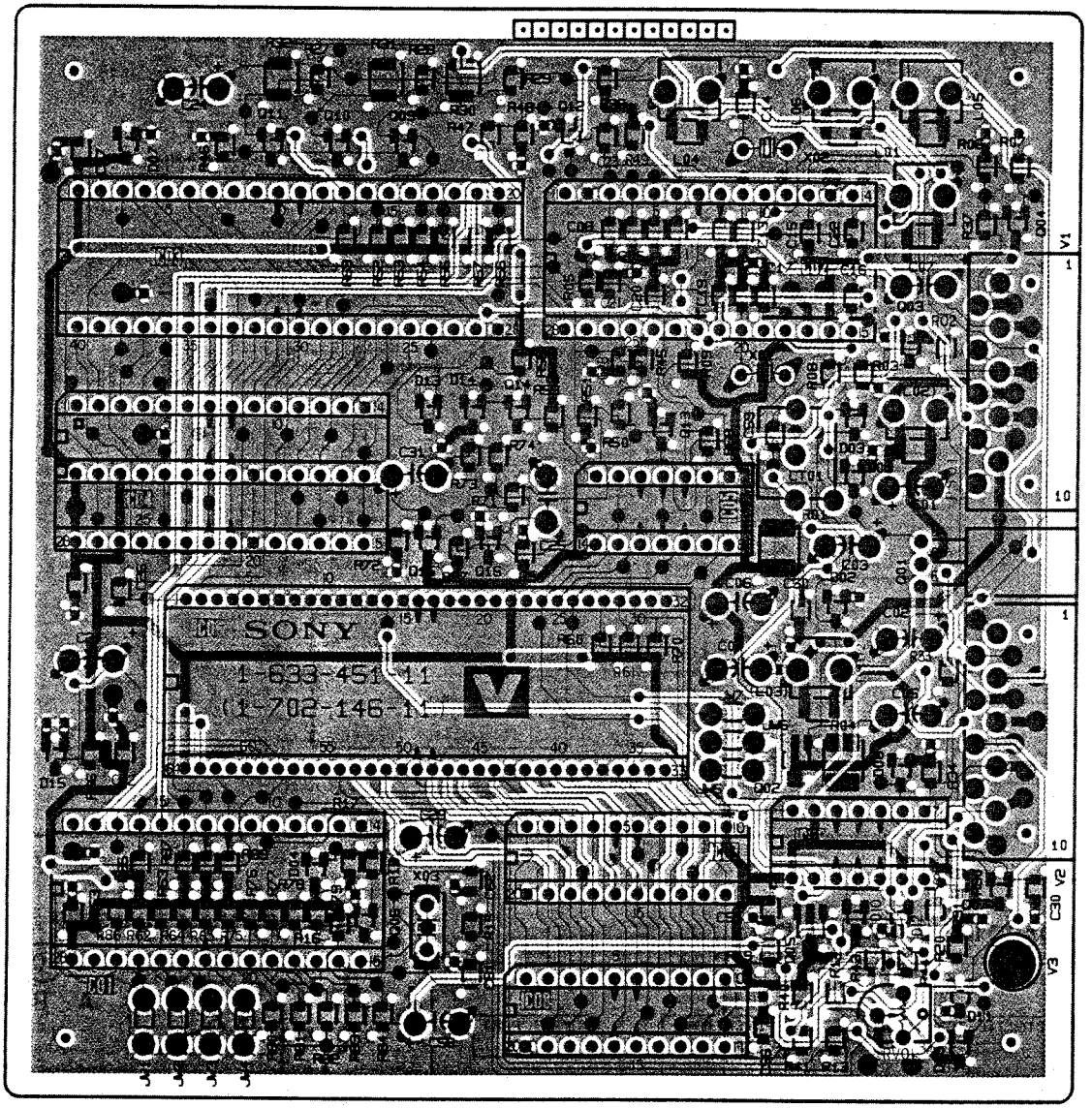
①  5.5Vp-p (H)	②  5.5Vp-p (H)	③ 5.5Vp-p (H)
④ 1.3Vp-p (H)	⑤ 1 Vp-p (H)	⑥ 0.4Vp-p (H)
⑦ 0.4Vp-p (H)	⑧ PAL NTSC 3.58 4.43 0.16Vp-p (H)	⑧ SECAM 0.1Vp-p (H)
⑨ 10 Vp-p (H)	⑩ SECAM 1 Vp-p (H)	⑪ SECAM 0.13Vp-p (H)
⑫ 1 Vp-p (H)	⑬  1 Vp-p (H)	

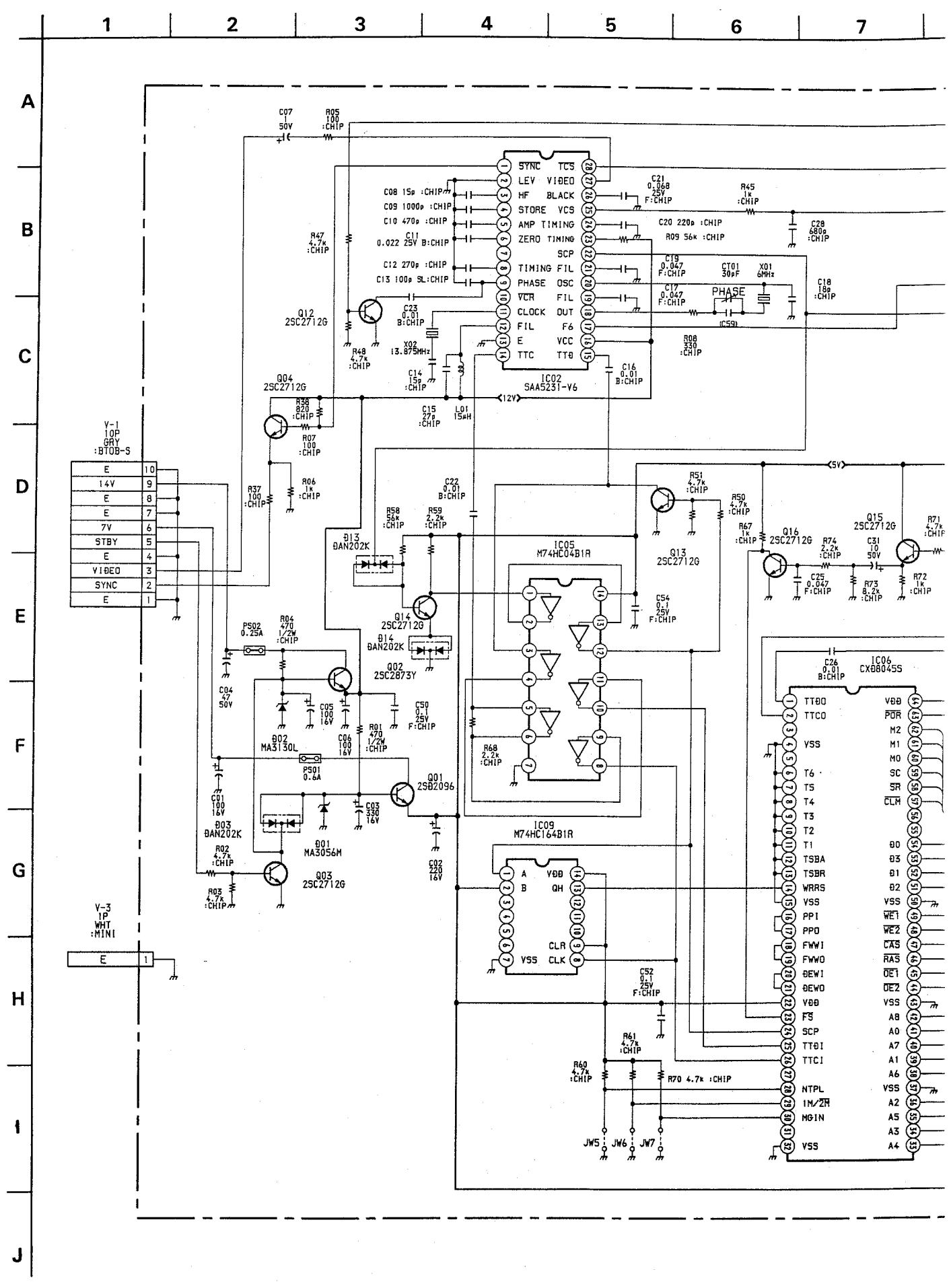
B [CHROMA DECODER]

–B Board–

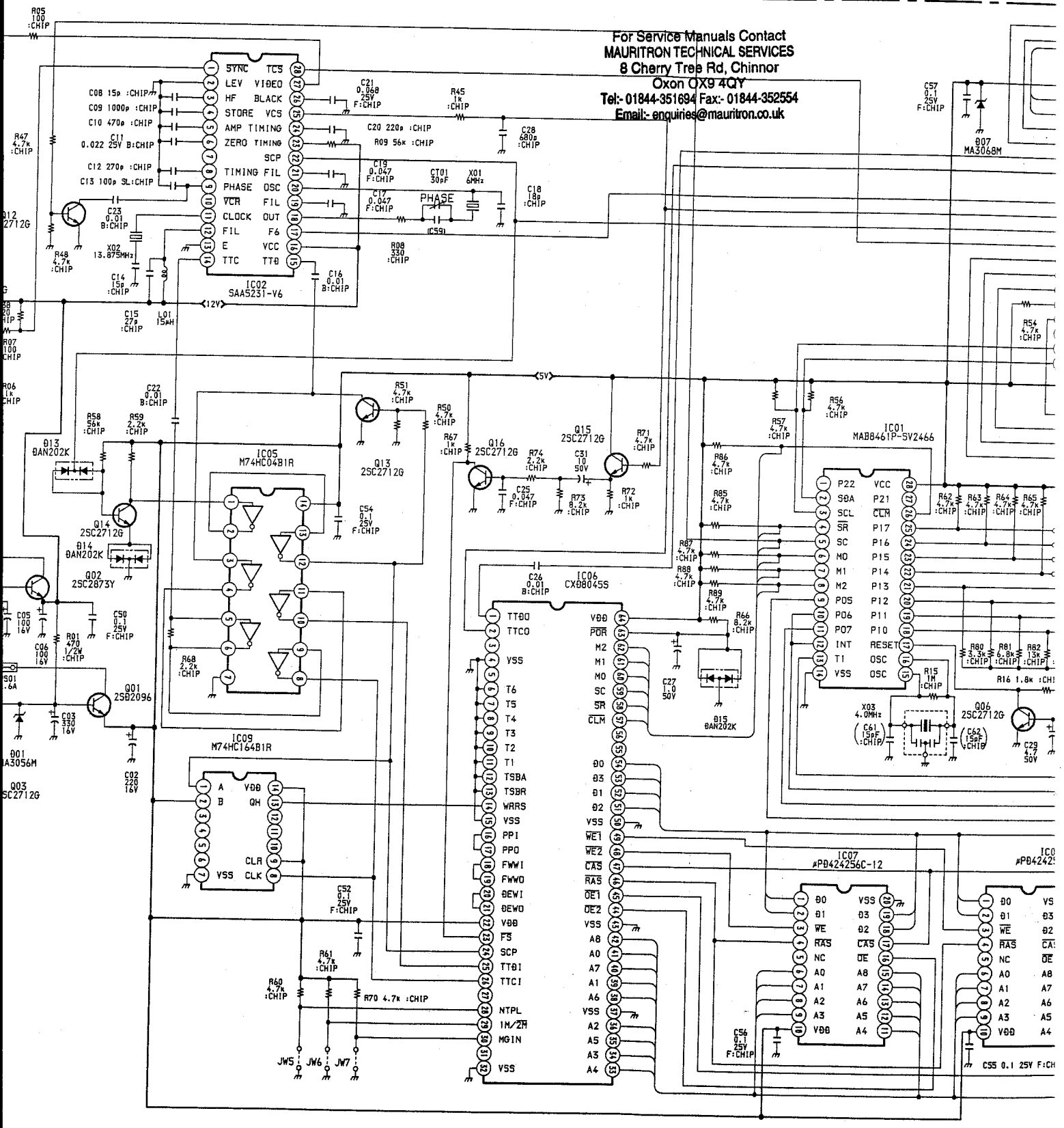


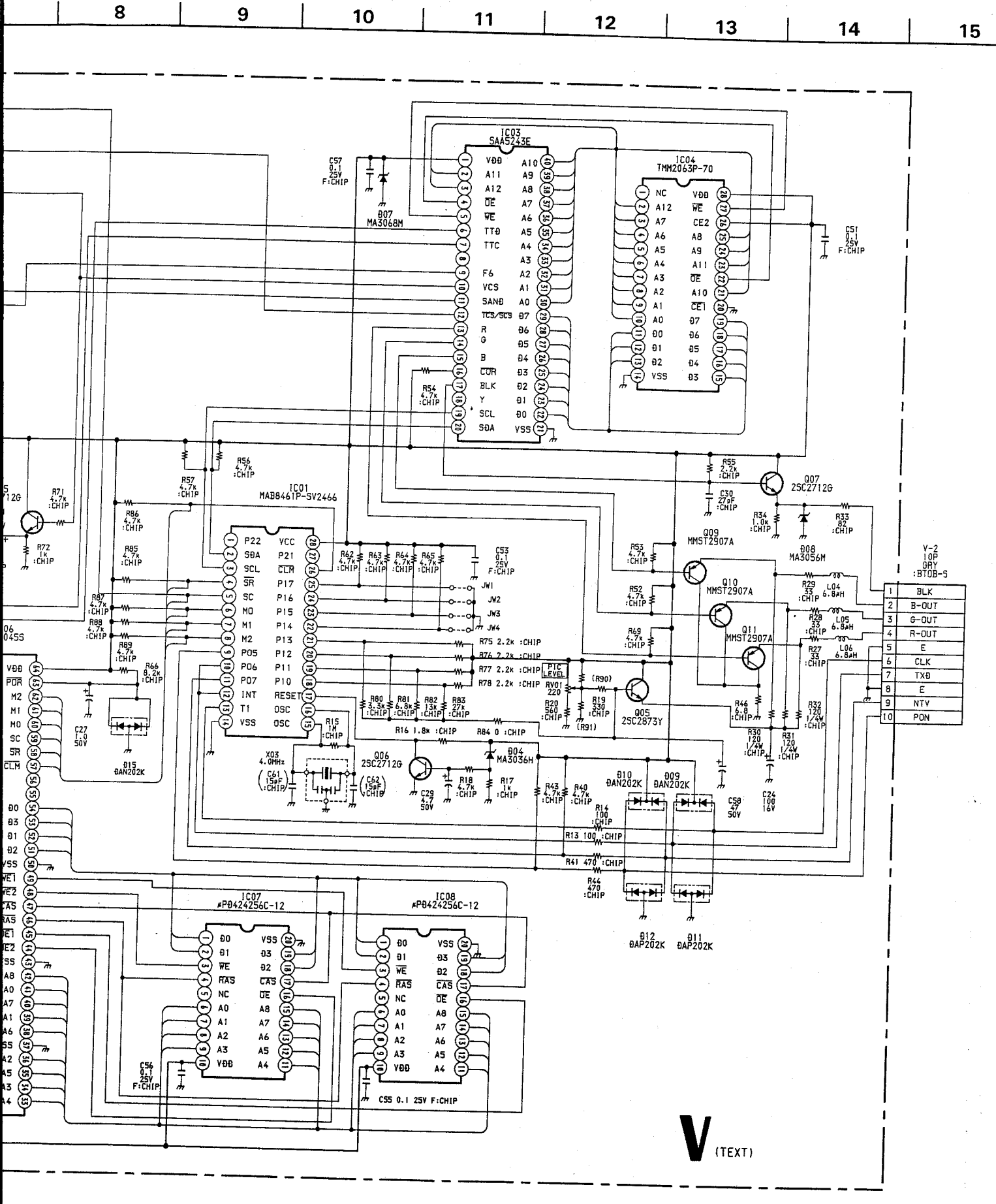
—V Board—

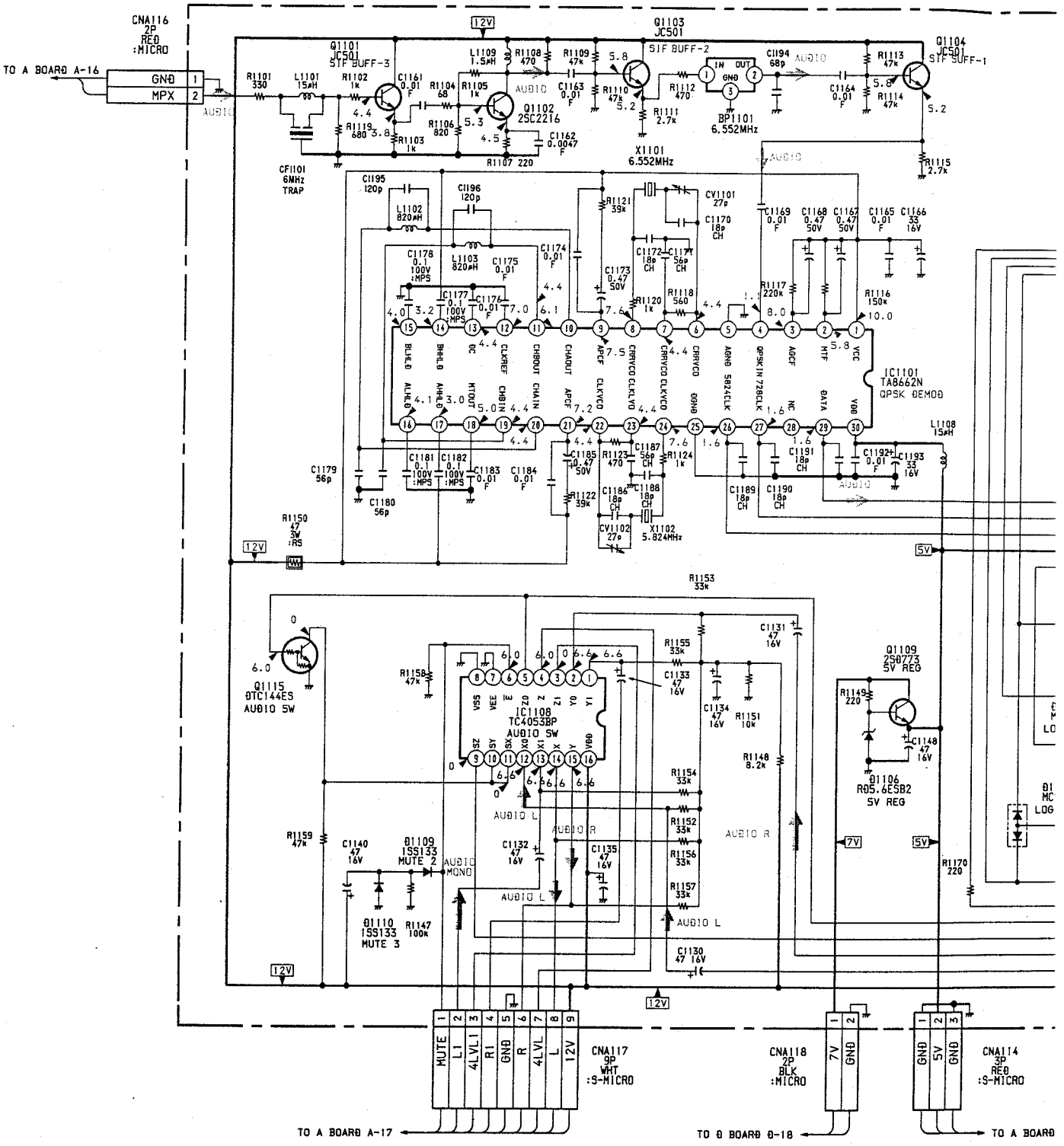


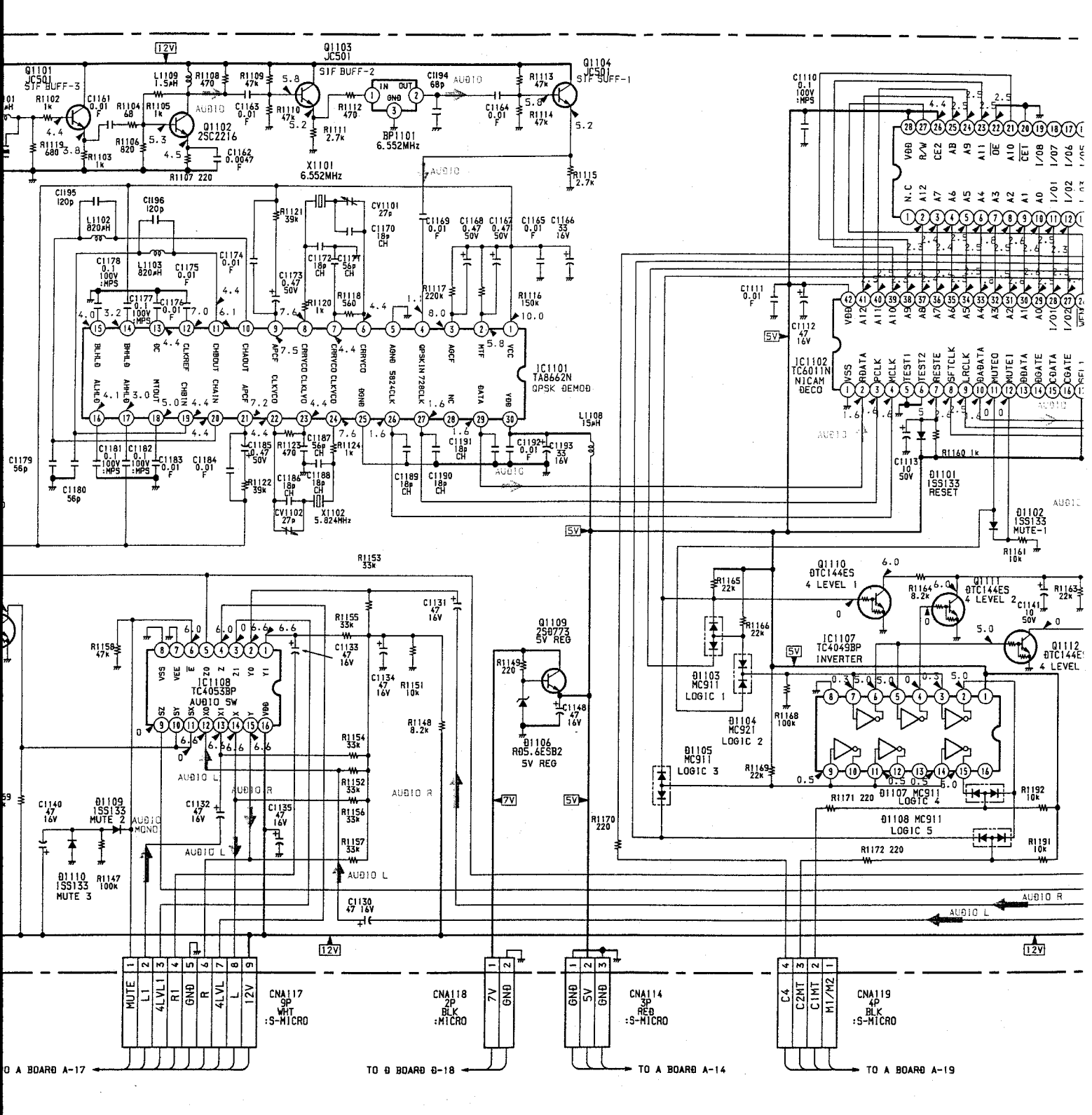

1
2
3
4
5
6
7
A
B
C
D
E
F
G
H
I
J
C07 1 50V
R05 100 :CHIP
SYNC TCS
LEV VIDEO
HF BLACK
STORE VCS
AMP TIMING
ZERO TIMING
SCP
TIMING FIL
PHASE OSC
VCR FIL
CLOCK OUT
FIL F6
E VCC
TTC TTD
C08 15p :CHIP
C09 1000p :CHIP
C10 470p :CHIP
C11 0.022 25V B:CHIP
C12 270p :CHIP
C13 100p SL:CHIP
C21 0.068 25V F:CHIP
C20 220p :CHIP
R09 56k :CHIP
R45 1k :CHIP
C28 680p :CHIP
C19 0.047 F:CHIP
CT01 30pF
X01 6MHz
C17 0.047 F:CHIP
PHASE
(C59)
C18 18p :CHIP
R47 4.7k :CHIP
Q12 2SC2712G
C23 0.01 B:CHIP
X02 13.875MHz
R48 4.7k :CHIP
C14 15p :CHIP
C16 0.01 B:CHIP
R08 330 :CHIP
IC02 SAA5231-V6
12V
Q04 2SC2712G
R38 820 :CHIP
R07 100 :CHIP
C15 27p :CHIP
L01 15uH
V-1 10P GRY :BTOB-S
E 10
14V 9
E 8
E 7
7V 6
STBY 5
E 4
VIDEO 3
SYNC 2
E 1
R37 100 :CHIP
R06 1k :CHIP
C22 0.01 B:CHIP
R58 56k :CHIP
R59 2.2k :CHIP
D13 DAN202K
IC05 M74HC04B1R
R51 4.7k :CHIP
R50 4.7k :CHIP
5V
R67 1k :CHIP
Q16 2SC2712G
R74 2.2k :CHIP
C31 10 50V
Q15 2SC2712G
R71 4.7k :CHIP
C25 0.047 F:CHIP
R73 8.2k :CHIP
R72 1k :CHIP
Q13 2SC2712G
Q14 2SC2712G
D14 DAN202K
C54 0.1 25V F:CHIP
PS02 0.25A
R04 470 1/2W :CHIP
C04 47 50V
Q02 2SC2873Y
C05 100 16V
C50 0.1 25V F:CHIP
D02 MA3130L
C06 100 16V
R01 470 1/2W :CHIP
R68 2.2k :CHIP
PS01 0.6A
C01 100 16V
Q01 2SB2096
D03 DAN202K
D01 MA3056M
C03 330 16V
C02 220 16V
R02 4.7k :CHIP
R03 4.7k :CHIP
Q03 2SC2712G
IC09 M74HC164B1R
A VDD
B QH
CLR
VSS CLK
C26 0.01 B:CHIP
IC06 CXD8045S
TTDO VDD
TTCO POR
M2
VSS M1
M0
T6 SC
T5 SR
T4 CLM
T3
T2
T1 D0
TSBA D3
TSBR D1
WRRS D2
VSS VSS
PPI WE1
PPO WE2
FWWI CAS
FWWO RAS
DEWI OE1
DEWO OE2
VDD VSS
FS A8
SCP A0
TTDI A7
TTCI A1
A6
NTPL VSS
1M/2M A2
MGIN A5
A3
VSS A4
C52 0.1 25V F:CHIP
R61 4.7k :CHIP
R60 4.7k :CHIP
R70 4.7k :CHIP
JW5
JW6
JW7
V-3 1P WHT :MINI
E 1

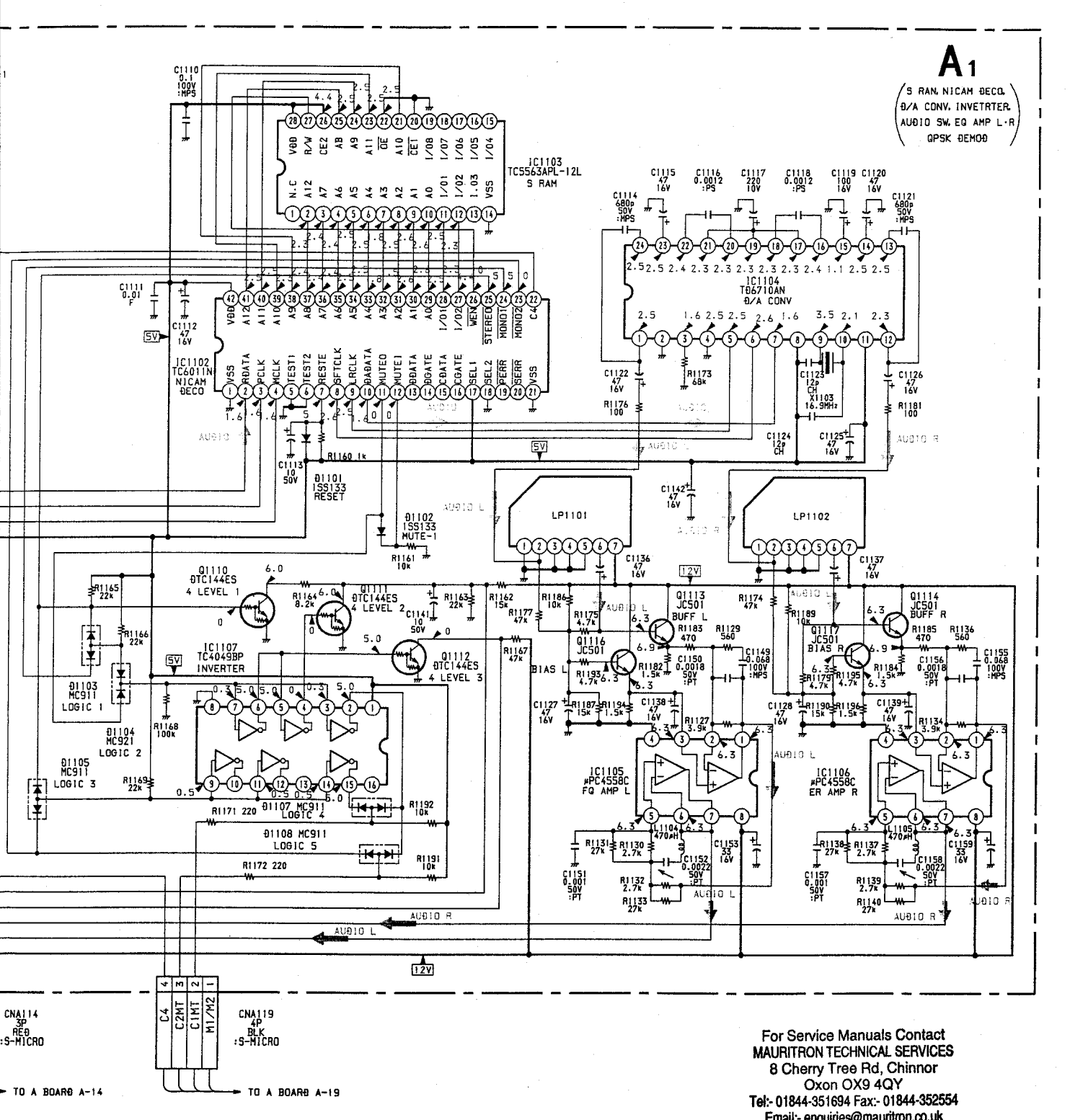
For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
8 Cherry Tree Rd, Chinnor
Oxon OX9 4QY
Tel:- 01844-351694 Fax:- 01844-352554
Email:- enquiries@mauritron.co.uk




8
9
10
11
12
13
14
15
IC03
SAA5243E
IC04
TMM2063P-70
IC01
MAB8461P-5V2466
IC07
#P0424256C-12
IC08
#P0424256C-12
Q07
2SC2712G
Q09
MMST2907A
Q10
MMST2907A
Q11
MMST2907A
Q05
2SC2873Y
Q06
2SC2712G
D07
MA3068M
D08
MA3056M
D04
MA3036H
D10
DAN202K
D09
DAN202K
D12
DAP202K
D11
DAP202K
D15
DAN202K
X03
4.0MHz
V-2
10P
GRY
:BTOB-S
1 BLK
2 B-OUT
3 G-OUT
4 R-OUT
5 E
6 CLK
7 TXD
8 E
9 NTV
10 PON
V
(TEXT)


CNA116
2P
RED
:MICRO
TO A BOARD A-16
GND
MPX
12V
Q1103
JC501
SIF BUFF-2
Q1101
JC501
SIF BUFF-3
Q1104
JC501
SIF BUFF-1
Q1102
2SC2216
BP1101
6.552MHz
X1101
6.552MHz
CF1101
6MHz
TRAP
IC1101
TA8662N
QPSK DEMOD
BLHLD
BHHLD
DC
CLKREF
CHBOUT
CHAOUT
APCF
CRYVCO CLKVCO
CRYVCO
AGND
5824CLK
QPSKIN
AGCF
MTF
VCC
ALHLD
AHHLD
MTOUT
CHBIN
CHAIN
APCF
CLKVCO
GND
728CLK
NC
DATA
VDD
Q1115
DTC144ES
AUDIO SW
IC1108
TC4053BP
AUDIO SW
Q1109
2SD773
5V REG
Q1106
RD5.6ESB2
5V REG
Q1107
MC
LOG
Q1109
1SS133
MUTE 2
Q1110
1SS133
MUTE 3
AUDIO L
AUDIO R
AUDIO MONO
7V
5V
CNA117
9P
WHT
:S-MICRO
MUTE
L1
4LVL1
R1
GND
R
4LVL
L
12V
CNA118
2P
BLK
:MICRO
7V
GND
CNA114
3P
RED
:S-MICRO
GND
5V
GND
TO A BOARD A-17
TO A BOARD A-18
TO A BOARD


12V
Q1103 JC501
SIF BUFF-2
Q1101 JC501 SIF BUFF-3
Q1104 JC501 SIF BUFF-1
Q1102 2SC2216
X1101 6.552MHz
BP1101 6.552MHz
X1102 5.824MHz
JC1101 TA8662N QPSK DEMOD
JC1102 TC6011N NICAM DECO
IC1107 TC4049BP INVERTER
IC1108 TC4053BP AUDIO SW
Q1109 250773 5V REG
Q1106 RD5.6ES2 5V REG
Q1101 IS5133 RESET
Q1102 IS5133 MUTE-1
Q1103 MC911 LOGIC 1
Q1104 MC921 LOGIC 2
Q1105 MC911 LOGIC 3
Q1107 MC911 LOGIC 4
Q1108 MC911 LOGIC 5
Q1109 IS5133 MUTE 2
Q1110 IS5133 MUTE 3
Q1110 DTC144ES 4 LEVEL 1
Q1111 DTC144ES 4 LEVEL 2
Q1112 DTC144ES 4 LEVEL
AUDIO L
AUDIO R
AUDIO MONO
5V
7V
CNA117 9P WHT :S-MICRO
MUTE
LI
4LVL1
RI
GND
R
4LVL
L
12V
CNA118 2P BLK :MICRO
7V
GND
CNA114 3P RED :S-MICRO
GND
5V
GND
CNA119 4P BLK :S-MICRO
C4
C2MT
C1MT
M1/M2
TO A BOARD A-17
TO B BOARD B-18
TO A BOARD A-14
TO A BOARD A-19



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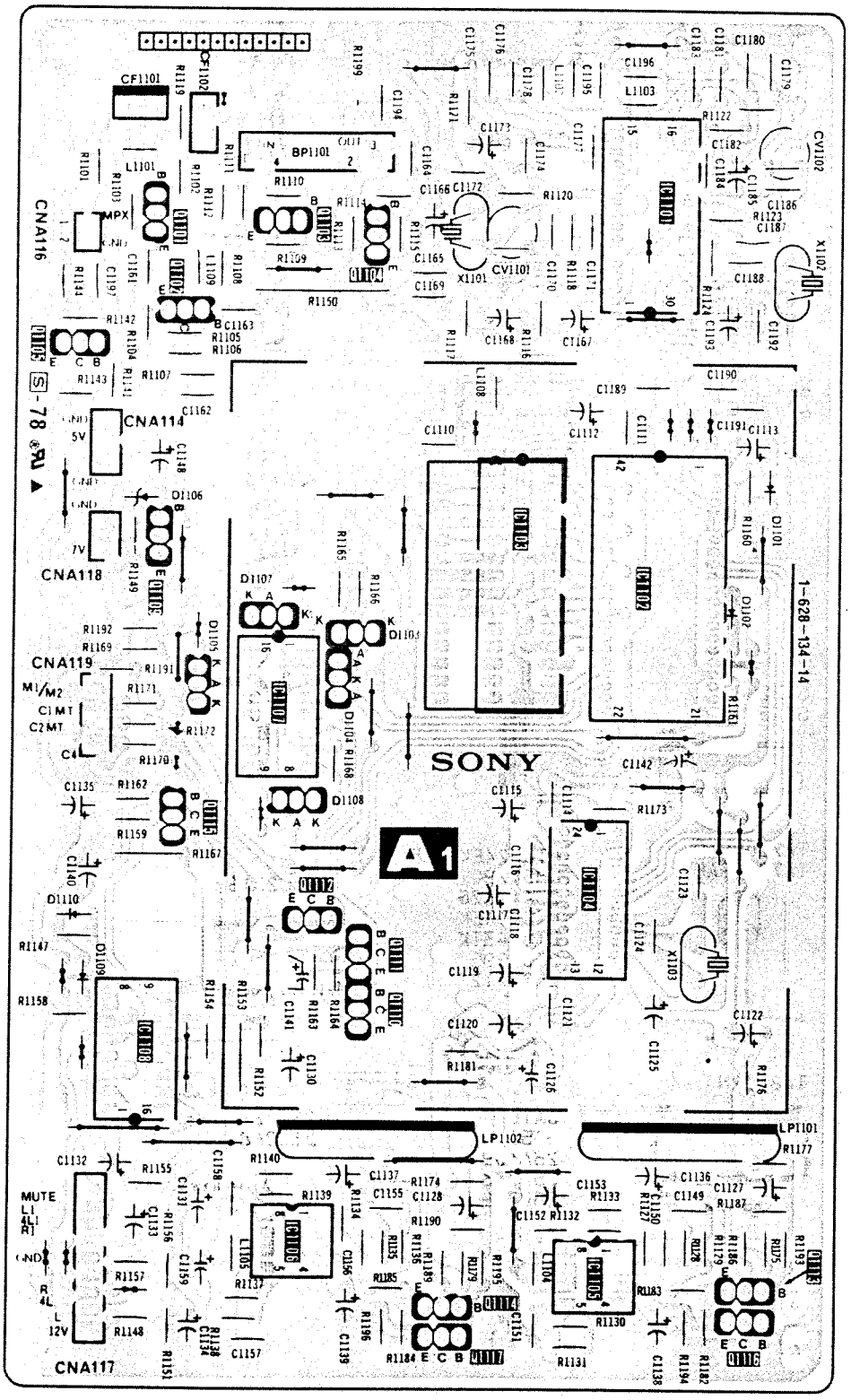
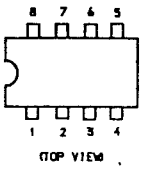
8 Cherry Tree Rd, Chinnor
Oxon OX9 4QY
Tel:- 01844-351694 Fax:- 01844-352554
Email:- enquiries@mauritron.co.uk

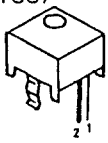
-A1 Board-


CNA116
CNA114
CNA118
CNA119
CNA117
SONY
A1
1-628-134-14
S-78
LP1102
LP1101
MUTE

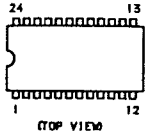
BA4558
RC4558P
SΘA2546
TEA2014
TEA2031A
μPC4558C



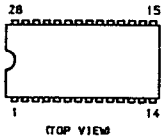
BX1387



CXA1050A
TΘ6710AN



CXA1114P
SAA5231-V6
SMAB8461P-W177
TC5563APL
TΘA4580
TΘA4650
TΘA6200
TEA2028B
TMM2063P-70



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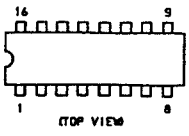
HΘ14053BP
PCF8574P
TC4040BP
TC4049BP
TC4053BP
TΘA4660
TΘA8442-N3
TEA2260



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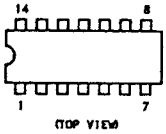

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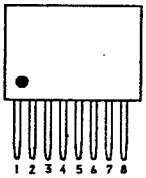

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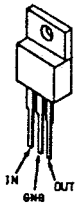
RC7812FA
μPC24M05HF
μPC7812H



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SΘA5243

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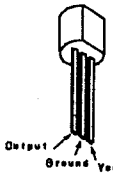
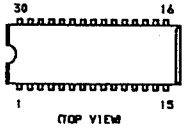
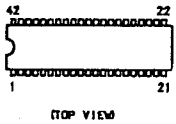
TA78009AP



TA8662N



TC6011N



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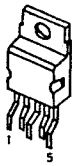

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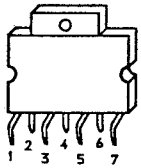

ΘTA144ES
ΘTC114ES
ΘTC144ES
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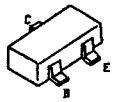
ΘTC124EK
MMST2907A
2SA1162G
ΘTC114EK
ΘTC143TK
2SB1295
2SC2712



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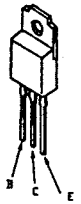
2SA733
2SΘ789

2SB1185
2SΘ1761



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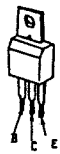
2SB734
2SΘ773
2SΘ774

2SC1761



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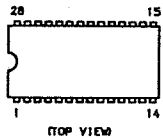

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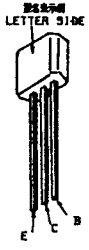
2SC2688

2SC2785



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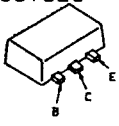
2SD1623



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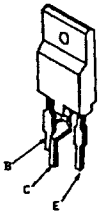
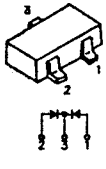
2SD1941



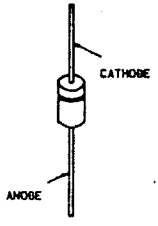
2SD2096

CTU-12S

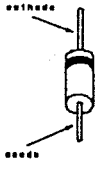
MA152WK
DAN202K



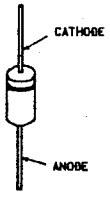
ERC06-15S
ERC25-06S
RU-3AM



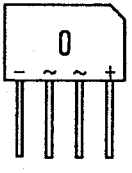
ERD29-08J



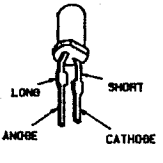
ES1F
GP08D
RGP10G



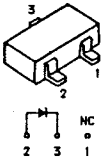
KBU4JL-6088



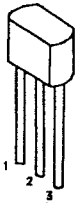
LD-210VR
SEL-1222R-C



MA3036H
MA3056M
MA3068M
MA3130L
RD3.6M-B2
RD6.8M-B2
RD13M-B1
RD5.6M-B2

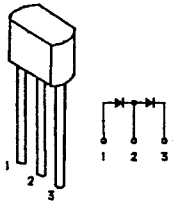


MC911

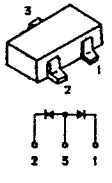


MC921

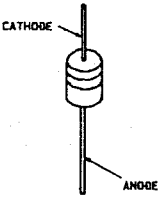
MC931



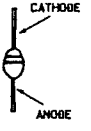
DAP202K



RD10ES-B3
RD11ES-B3
RD13ES-B2
RD15ES-B1
RD33ES-B1
RD36ES-B4
RD4.7ES-B2
RD5.6ES-B2
RD5.6ES-B3
RD6.2ES-B2
RD6.8ES-B3
RD7.5ES-B3
RD9.1ES-B2
RD9.1ES-B3
1SS119
1SS133



U05G



EXPLODED VIEWS

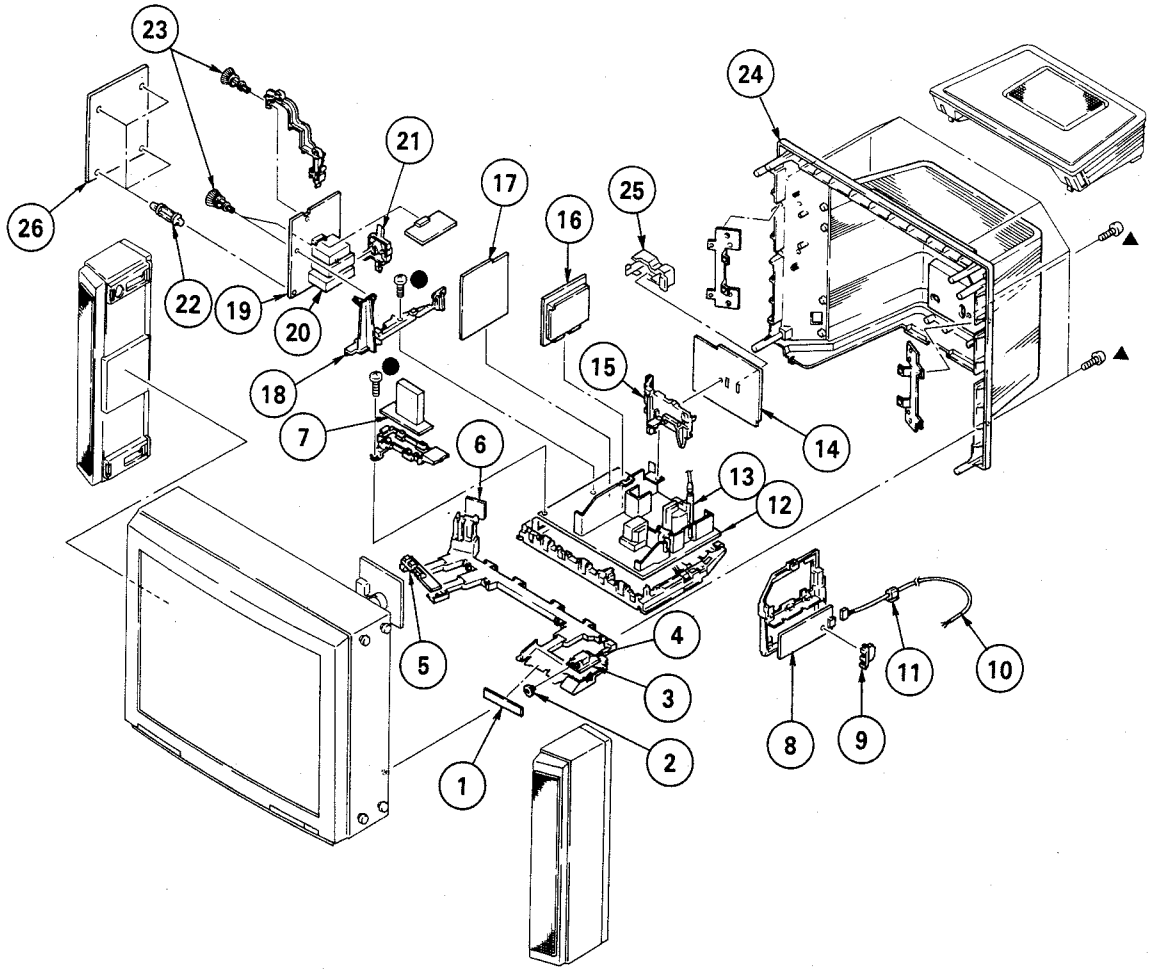
NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

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

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

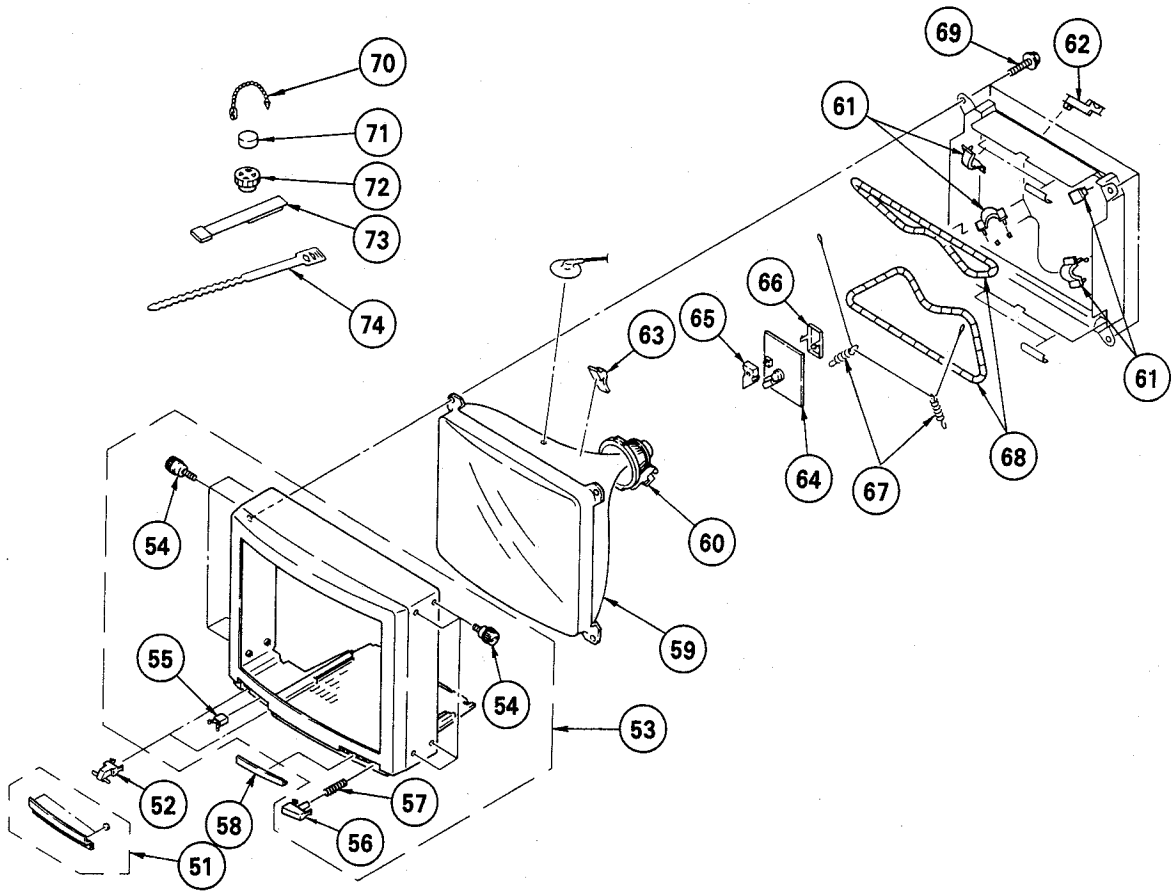
6-1. CHASSIS

● : BVTP3×12 7-685-648-79
▲ : BVTP4×16 7-685-663-79



REF.NO.	PART NO.	DESCRIPTION	REMARK
1	*1-631-221-11	H2 BOARD	
2	4-201-011-01	CAP, SWITCH	
3	*1-631-223-11	F2 BOARD	
4	⚠1-571-433-11	SWITCH, PUSH (AC POWER)	
5	*1-631-220-11	H1 BOARD	
6	*1-631-222-11	J2 BOARD	
7	*1-631-217-12	Y BOARD	
8	*1-631-216-12	F1 BOARD	
9	*4-386-620-02	COVER, POWER	
10	⚠1-559-347-11	CORD, POWER (WITH CONNECTOR)	
11	⚠4-389-202-02	HOLDER, AC CORD	
12	*A-1642-002-A	D BOARD, COMPLETE	
13	⚠1-439-416-11	TRANSFORMER ASSY, FLYBACK (UX-1600)	
14	*A-1651-009-A	J1 BOARD, COMPLETE	
15	*4-386-624-11	BRACKET, J	
16	*A-1645-001-A	V BOARD, COMPLETE	
17	*A-1621-001-A	B BOARD, COMPLETE	
18	*4-386-629-12	BRACKET, A	
19	*A-1632-003-A	A BOARD, COMPLETE	
20	⚠1-465-302-11	TUNER, ET (U-944(PLL))	
21	*4-386-617-01	HOLDER, TERMINAL	
22	*4-385-948-01	HOLDER, PCB	
23	4-386-618-01	RIVET, T TYPE	
24	4-201-017-01	COVER, REAR	
25	4-200-014-01	BRACKET, TERMINAL	
26	*A-1296-523-A	A1 BOARD, COMPLETE	

6-2. PICTURE TUBE



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

REF.NO.	PART NO.	DESCRIPTION	REMARK
51	X-4201-006-2	DOOR ASSY, CONTROL	
52	3-703-035-11	SHAFT, LID	
53	X-4201-005-3	CABINET ASSY (WITH BEZEL ASSY)	54-57
54	X-4374-104-1	SCREW (B) ASSY, ORNAMENTAL	
55	4-386-710-01	CATCHER, PUSH	
56	4-200-013-01	BUTTON, POWER	
57	4-329-112-21	SPRING	
58	4-200-017-12	WINDOW, ORNAMENTAL	
59	⚠ 8-733-224-05	PICTURE TUBE (A59JWC60X)	
60	⚠ 1-451-311-21	DEFLECTION YOKE (Y25FXA)	
61	*4-385-916-01	HOLDER (D)	
62	*4-387-216-01	HOLDER, LEAD	
63	3-703-961-01	SPACER, DY	
64	*A-1638-002-A	C BOARD, COMPLETE	
65	*4-379-167-01	COVER (MAIN), CV	
66	*4-379-160-01	COVER (REAR LID), CV	
67	4-303-774-99	SPRING	
68	⚠ 1-426-372-11	COIL, DEMAGNETIZATION	
69	4-373-263-01	SCREW (M), PT	
70	4-308-870-00	CLIP, LEAD WIRE	
71	1-452-032-00	MAGNET, DISK; 10MM ϕ	
72	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ϕ	
73	X-4387-214-1	PERMALLOY ASSY, CORRECTION	
74	3-701-007-00	BAND, BINDING	

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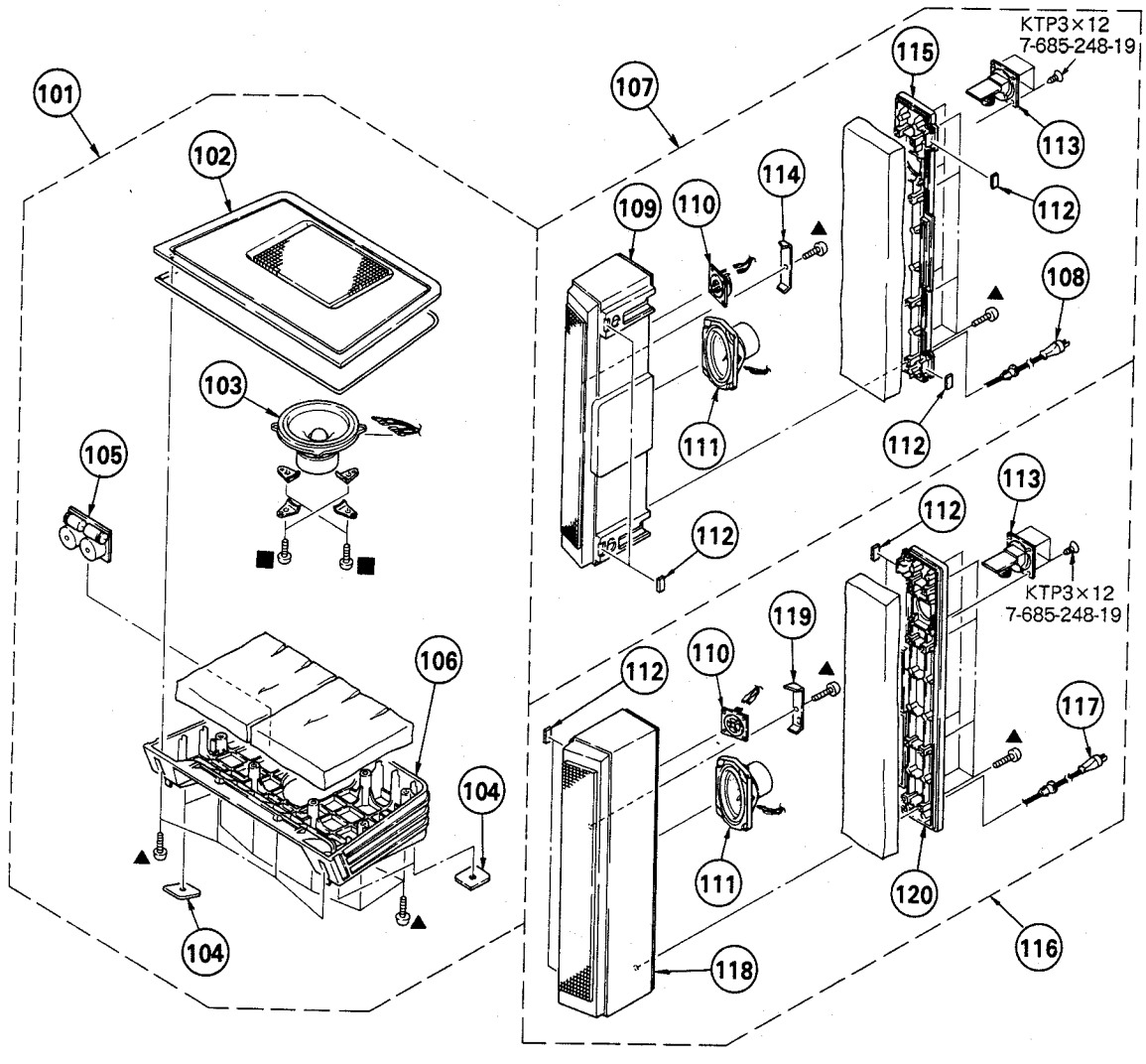
Email:- enquiries@mauritron.co.uk

6-3. SPEAKER(L, R, WOOFER)

▲ : BVTP4×16 7-685-663-79
■ : BVTP4×10 7-685-660-79



REF.NO.	PART NO.	DESCRIPTION	REMARK
101	*A-1678-001-A	BOX ASSY, WOOFER	102-106
102	X-4200-004-2	BOARD ASSY, BAFFLE	
103	1-544-192-11	SPEAKER	
104	4-200-009-01	CUSHION, FOOT	
105	1-236-549-11	NETWORK, DIVIDING	
106	4-200-027-01	BOX, WOOFER	
107	*A-1678-012-A	BOX ASSY (LEFT), SPEAKER	108-115
108	1-575-025-11	CORD, SPEAKER (WITH PLUG)	
109	X-4201-003-1	BOX ASSY (LEFT), SIDE	
110	1-544-203-11	SPEAKER	
111	1-544-204-11	SPEAKER	
112	4-200-006-01	CUSHION, FOOT	
113	1-236-510-21	NETWORK, DIVIDING	
114	*4-200-003-02	BRACKET (L), SPEAKER	
115	4-201-007-01	PANEL (LEFT), REAR	
116	*A-1678-010-A	BOX ASSY(RIGHT), SPEAKER 110-113,117-120	
117	1-575-024-11	CORD, SPEAKER (WITH PLUG)	
118	X-4201-004-1	BOX ASSY (RIGHT), SIDE	
119	*4-200-004-02	BRACKET (R), SPEAKER	
120	4-201-006-01	PANEL (RIGHT), REAR	

ELECTRICAL PARTS LIST

NOTE:

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

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

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

CAPACITORS
- MF : μF, PF : μμF

COILS
- MMH : mH, UH :

Note: In this parts list, the mounting diagram is for a different product.
Therefore, an excess of parts is listed.

REF.NO.	PART NO.	DESCRIPTION			REMARK
	*A-1296-523-A	A1 BOARD, COMPLETE			
		**********			
		<FILTER>			
BP1101	1-236-238-11	FILTER, BAND PASS			
CF1101	1-409-333-00	TRAP, CERAMIC (6.0MHZ)			
LP1101	1-236-356-11	FILTER, LOW PASS			
LP1102	1-236-356-11	FILTER, LOW PASS			
		<CAPACITOR>			
C1110	1-106-220-00	MYLAR	0.1MF	10% 100V	
C1111	1-101-004-00	CERAMIC	0.01MF	50V	
C1112	1-124-477-11	ELECT	47MF	20% 16V	
C1113	1-123-875-11	ELECT	10MF	20% 50V	
C1114	1-130-469-00	MYLAR	680PF	5% 50V	
C1115	1-124-477-11	ELECT	47MF	20% 16V	
C1116	1-103-727-00	POLYSTYRENE	0.0012MF	5% 50V	
C1117	1-126-176-11	ELECT	220MF	20% 10V	
C1118	1-103-727-00	POLYSTYRENE	0.0012MF	5% 50V	
C1119	1-126-101-11	ELECT	100MF	20% 16V	
C1120	1-124-477-11	ELECT	47MF	20% 16V	
C1121	1-130-469-00	MYLAR	680PF	5% 50V	
C1122	1-124-477-11	ELECT	47MF	20% 16V	
C1123	1-102-949-00	CERAMIC	12PF	5% 50V	
C1124	1-102-949-00	CERAMIC	12PF	5% 50V	
C1125	1-124-477-11	ELECT	47MF	20% 16V	
C1126	1-124-477-11	ELECT	47MF	20% 16V	
C1127	1-124-477-11	ELECT	47MF	20% 16V	
C1128	1-124-477-11	ELECT	47MF	20% 16V	
C1130	1-124-477-11	ELECT	47MF	20% 16V	
C1131	1-124-477-11	ELECT	47MF	20% 16V	
C1132	1-124-477-11	ELECT	47MF	20% 16V	
C1133	1-124-477-11	ELECT	47MF	20% 16V	
C1134	1-124-477-11	ELECT	47MF	20% 16V	
C1135	1-124-477-11	ELECT	47MF	20% 16V	
C1136	1-124-477-11	ELECT	47MF	20% 16V	
C1137	1-124-477-11	ELECT	47MF	20% 16V	
C1138	1-124-477-11	ELECT	47MF	20% 16V	
C1139	1-124-477-11	ELECT	47MF	20% 16V	
C1140	1-124-477-11	ELECT	47MF	20% 16V	
C1141	1-123-875-11	ELECT	10MF	20% 50V	
C1142	1-124-477-11	ELECT	47MF	20% 16V	
C1148	1-124-477-11	ELECT	47MF	20% 16V	
C1149	1-106-216-00	MYLAR	0.068MF	10% 100V	
C1150	1-108-795-11	MYLAR	0.0018MF	5% 50V	
C1151	1-108-792-11	MYLAR	0.001MF	5% 50V	
C1152	1-108-796-11	MYLAR	0.0022MF	5% 50V	
C1153	1-124-963-11	ELECT	33MF	20% 16V	
C1155	1-106-216-00	MYLAR	0.068MF	10% 100V	
C1156	1-108-795-11	MYLAR	0.0018MF	5% 50V	

REF.NO.	PART NO.	DESCRIPTION		
C1157	1-108-792-11	MYLAR	0.001MF	5%
C1158	1-108-796-11	MYLAR	0.0022MF	5%
C1159	1-124-963-11	ELECT	33MF	20%
C1161	1-101-004-00	CERAMIC	0.01MF	
C1162	1-101-003-00	CERAMIC	0.0047MF	
C1163	1-101-004-00	CERAMIC	0.01MF	
C1164	1-101-004-00	CERAMIC	0.01MF	
C1165	1-101-004-00	CERAMIC	0.01MF	
C1166	1-124-963-11	ELECT	33MF	20%
C1167	1-124-902-00	ELECT	0.47MF	20%
C1168	1-124-902-00	ELECT	0.47MF	20%
C1169	1-101-004-00	CERAMIC	0.01MF	
C1170	1-102-953-00	CERAMIC	18PF	5%
C1171	1-101-884-00	CERAMIC	56PF	5%
C1172	1-102-953-00	CERAMIC	18PF	5%
C1173	1-124-902-00	ELECT	0.47MF	20%
C1174	1-101-004-00	CERAMIC	0.01MF	
C1175	1-101-004-00	CERAMIC	0.01MF	
C1176	1-101-004-00	CERAMIC	0.01MF	
C1177	1-106-220-00	MYLAR	0.1MF	10%
C1178	1-106-220-00	MYLAR	0.1MF	10%
C1179	1-101-884-00	CERAMIC	56PF	5%
C1180	1-101-884-00	CERAMIC	56PF	5%
C1181	1-106-220-00	MYLAR	0.1MF	10%
C1182	1-106-220-00	MYLAR	0.1MF	10%
C1183	1-101-004-00	CERAMIC	0.01MF	
C1184	1-101-004-00	CERAMIC	0.01MF	
C1185	1-124-902-00	ELECT	0.47MF	20%
C1186	1-102-953-00	CERAMIC	18PF	5%
C1187	1-101-884-00	CERAMIC	56PF	5%
C1188	1-102-953-00	CERAMIC	18PF	5%
C1189	1-102-953-00	CERAMIC	18PF	5%
C1190	1-102-953-00	CERAMIC	18PF	5%
C1191	1-102-953-00	CERAMIC	18PF	5%
C1192	1-101-004-00	CERAMIC	0.01MF	
C1193	1-124-963-11	ELECT	33MF	20%
C1194	1-101-888-00	CERAMIC	68PF	5%
C1195	1-102-816-00	CERAMIC	120PF	5%
C1196	1-102-816-00	CERAMIC	120PF	5%
		<CONNECTOR>		
CNA114*	1-564-880-31	PLUG, CONNECTOR 3P		
CNA116*	1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)		
CNA117*	1-564-886-21	PLUG, CONNECTOR 9P		
CNA118*	1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)		
CNA119*	1-564-881-11	PLUG, CONNECTOR 4P		
		<TRIMMER>		
CV1101	1-141-392-11	CAP, VAR, TRIMMER (1 GANG)		

A1

REF.NO.	PART NO.	DESCRIPTION	REMARK
CV1102	1-141-392-11	CAP, VAR, TRIMMER (1 GANG)	
		<DIODE>	
D1101	8-719-911-19	DIODE 1SS119	
D1102	8-719-911-19	DIODE 1SS119	
D1103	8-719-000-04	DIODE MC911	
D1104	8-719-000-06	DIODE MC921	
D1105	8-719-000-04	DIODE MC911	
D1106	8-719-109-89	DIODE RD5.6ES-B2	
D1107	8-719-000-04	DIODE MC911	
D1108	8-719-000-04	DIODE MC911	
D1109	8-719-911-19	DIODE 1SS119	
D1110	8-719-911-19	DIODE 1SS119	
		<IC>	
IC1101	8-759-231-09	IC TA8662N	
IC1102	8-759-231-28	IC TC6011N	
IC1103	8-759-230-69	IC TC5563APL-12L	
IC1104	8-759-231-29	IC TD6710AN	
IC1105	8-759-945-58	IC RC4558P	
IC1106	8-759-945-58	IC RC4558P	
IC1107	8-759-240-49	IC TC4049BP	
IC1108	8-759-240-53	IC TC4053BP	
		<COIL>	
L1101	1-408-411-00	INDUCTOR 15UH	
L1102	1-410-118-11	INDUCTOR 0.82MMH	
L1103	1-410-118-11	INDUCTOR 0.82MMH	
L1104	1-408-429-00	INDUCTOR 470UH	
L1105	1-408-429-00	INDUCTOR 470UH	
L1108	1-408-411-00	INDUCTOR 15UH	
L1109	1-408-399-00	INDUCTOR 1.5UH	
		<TRANSISTOR>	
Q1101	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1102	8-729-203-28	TRANSISTOR 2SC2216	
Q1103	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1104	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1109	8-729-177-32	TRANSISTOR 2SD773	
Q1110	8-729-900-89	TRANSISTOR DTC144ES	
Q1111	8-729-900-89	TRANSISTOR DTC144ES	
Q1112	8-729-900-89	TRANSISTOR DTC144ES	
Q1113	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1114	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1115	8-729-900-89	TRANSISTOR DTC144ES	
Q1116	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1117	8-729-119-78	TRANSISTOR 2SC2785-HFE	
		<RESISTOR>	
R1101	1-249-411-11	CARBON 330 5% 1/4W	
R1102	1-249-417-11	CARBON 1K 5% 1/4W	
R1103	1-249-417-11	CARBON 1K 5% 1/4W	
R1104	1-249-403-11	CARBON 68 5% 1/4W	
R1105	1-249-417-11	CARBON 1K 5% 1/4W	
R1106	1-249-416-11	CARBON 820 5% 1/4W	
R1107	1-249-409-11	CARBON 220 5% 1/4W	
R1108	1-249-413-11	CARBON 470 5% 1/4W	
R1109	1-249-437-11	CARBON 47K 5% 1/4W	
R1110	1-249-437-11	CARBON 47K 5% 1/4W	

REF.NO.	PART NO.	DESCRIPTION				R
R1111	1-249-422-11	CARBON	2.7K	5%	1/4W	
R1112	1-249-413-11	CARBON	470	5%	1/4W	
R1113	1-249-437-11	CARBON	47K	5%	1/4W	
R1114	1-249-437-11	CARBON	47K	5%	1/4W	
R1115	1-249-422-11	CARBON	2.7K	5%	1/4W	
R1116	1-247-883-00	CARBON	150K	5%	1/4W	
R1117	1-247-887-00	CARBON	220K	5%	1/4W	
R1118	1-249-414-11	CARBON	560	5%	1/4W	
R1119	1-249-415-11	CARBON	680	5%	1/4W	
R1120	1-249-417-11	CARBON	1K	5%	1/4W	
R1121	1-249-436-11	CARBON	39K	5%	1/4W	
R1122	1-249-436-11	CARBON	39K	5%	1/4W	
R1123	1-249-413-11	CARBON	470	5%	1/4W	
R1124	1-249-417-11	CARBON	1K	5%	1/4W	
R1127	1-249-424-11	CARBON	3.9K	5%	1/4W	
R1129	1-249-414-11	CARBON	560	5%	1/4W	
R1130	1-249-422-11	CARBON	2.7K	5%	1/4W	
R1131	1-249-434-11	CARBON	27K	5%	1/4W	
R1132	1-249-422-11	CARBON	2.7K	5%	1/4W	
R1133	1-249-434-11	CARBON	27K	5%	1/4W	
R1134	1-249-424-11	CARBON	3.9K	5%	1/4W	
R1136	1-249-414-11	CARBON	560	5%	1/4W	
R1137	1-249-422-11	CARBON	2.7K	5%	1/4W	
R1138	1-249-434-11	CARBON	27K	5%	1/4W	
R1139	1-249-422-11	CARBON	2.7K	5%	1/4W	
R1140	1-249-434-11	CARBON	27K	5%	1/4W	
R1147	1-249-441-11	CARBON	100K	5%	1/4W	
R1148	1-249-428-11	CARBON	8.2K	5%	1/4W	
R1149	1-249-409-11	CARBON	220	5%	1/4W	
R1150	1-215-909-11	METAL OXIDE	47	5%	3W	F
R1151	1-249-429-11	CARBON	10K	5%	1/4W	
R1152	1-249-435-11	CARBON	33K	5%	1/4W	
R1153	1-249-435-11	CARBON	33K	5%	1/4W	
R1154	1-249-435-11	CARBON	33K	5%	1/4W	
R1155	1-249-435-11	CARBON	33K	5%	1/4W	
R1156	1-249-435-11	CARBON	33K	5%	1/4W	
R1157	1-249-435-11	CARBON	33K	5%	1/4W	
R1158	1-249-437-11	CARBON	47K	5%	1/4W	
R1159	1-249-437-11	CARBON	47K	5%	1/4W	
R1160	1-249-417-11	CARBON	1K	5%	1/4W	
R1161	1-249-429-11	CARBON	10K	5%	1/4W	
R1162	1-249-431-11	CARBON	15K	5%	1/4W	
R1163	1-249-433-11	CARBON	22K	5%	1/4W	
R1164	1-249-428-11	CARBON	8.2K	5%	1/4W	
R1165	1-249-433-11	CARBON	22K	5%	1/4W	
R1166	1-249-433-11	CARBON	22K	5%	1/4W	
R1167	1-249-437-11	CARBON	47K	5%	1/4W	
R1168	1-249-441-11	CARBON	100K	5%	1/4W	
R1169	1-249-433-11	CARBON	22K	5%	1/4W	
R1170	1-249-409-11	CARBON	220	5%	1/4W	
R1171	1-249-409-11	CARBON	220	5%	1/4W	
R1172	1-249-409-11	CARBON	220	5%	1/4W	
R1173	1-249-439-11	CARBON	68K	5%	1/4W	
R1174	1-249-437-11	CARBON	47K	5%	1/4W	
R1175	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1176	1-249-405-11	CARBON	100	5%	1/4W	
R1177	1-249-437-11	CARBON	47K	5%	1/4W	
R1179	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1181	1-249-405-11	CARBON	100	5%	1/4W	
R1182	1-249-419-11	CARBON	1.5K	5%	1/4W	
R1183	1-249-413-11	CARBON	470	5%	1/4W	
R1184	1-249-419-11	CARBON	1.5K	5%	1/4W	
R1185	1-249-413-11	CARBON	470	5%	1/4W	
R1186	1-249-429-11	CARBON	10K	5%	1/4W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R1187	1-249-431-11	CARBON	15K	5%	1/4W	
R1189	1-249-429-11	CARBON	10K	5%	1/4W	
R1190	1-249-431-11	CARBON	15K	5%	1/4W	
R1191	1-249-429-11	CARBON	10K	5%	1/4W	
R1192	1-249-429-11	CARBON	10K	5%	1/4W	
R1193	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1194	1-249-419-11	CARBON	1.5K	5%	1/4W	
R1195	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1196	1-249-419-11	CARBON	1.5K	5%	1/4W	
		<CRYSTAL>				
X1101	1-577-251-11	VIBRATOR, CRYSTAL				
X1102	1-577-252-11	VIBRATOR, CRYSTAL				
X1103	1-577-253-11	VIBRATOR, CERAMIC				
**********						
	*A-1621-001-A	B BOARD, COMPLETE				
		**********				
	*1-565-393-11	CONNECTOR, BOARD TO BOARD				
	*1-568-878-51	PIN, CONNECTOR 3P				
	*1-568-881-51	PIN, CONNECTOR 6P				
	*1-568-881-61	PIN, CONNECTOR 6P				
		<CAPACITOR>				
C301	1-106-228-00	MYLAR	0.22MF	10%	100V	
C302	1-106-228-00	MYLAR	0.22MF	10%	100V	
C303	1-124-122-11	ELECT	100MF	20%	50V	
C304	1-106-228-00	MYLAR	0.22MF	10%	100V	
C305	1-124-119-00	ELECT	330MF	20%	16V	
C306	1-124-902-00	ELECT	0.47MF	20%	50V	
C307	1-124-902-00	ELECT	0.47MF	20%	50V	
C308	1-124-902-00	ELECT	0.47MF	20%	50V	
C309	1-124-902-00	ELECT	0.47MF	20%	50V	
C310	1-106-220-00	MYLAR	0.1MF	10%	100V	
C311	1-106-220-00	MYLAR	0.1MF	10%	100V	
C312	1-124-902-00	ELECT	0.47MF	20%	50V	
C313	1-124-902-00	ELECT	0.47MF	20%	50V	
C314	1-124-902-00	ELECT	0.47MF	20%	50V	
C315	1-124-791-11	ELECT	1MF	20%	50V	
C316	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C317	1-124-910-11	ELECT	47MF	20%	50V	
C318	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C320	1-163-121-00	CERAMIC CHIP	150PF	5%	50V	
C322	1-163-121-00	CERAMIC CHIP	150PF	5%	50V	
C323	1-102-947-00	CERAMIC	10PF	0.5PF	50V	
C327	1-164-232-11	CERAMIC CHIP	0.01MF		50V	
C330	1-163-113-00	CERAMIC CHIP	68PF	5%	50V	
C331	1-163-077-00	CERAMIC CHIP	0.1MF		50V	
C332	1-126-103-11	ELECT	470MF	20%	16V	
C333	1-106-375-12	MYLAR	0.022MF	10%	250V	
C334	1-163-097-00	CERAMIC CHIP	15PF	5%	50V	
C335	1-163-097-00	CERAMIC CHIP	15PF	5%	50V	
C336	1-102-816-00	CERAMIC	120PF	5%	50V	
C337	1-164-232-11	CERAMIC CHIP	0.01MF		50V	
C338	1-106-220-00	MYLAR	0.1MF	10%	100V	
C339	1-106-220-00	MYLAR	0.1MF	10%	100V	
C341	1-163-125-00	CERAMIC CHIP	220PF	5%	50V	
C343	1-106-383-00	MYLAR	0.047MF	10%	100V	
C344	1-130-783-00	MYLAR	0.33MF	10%	100V	
C345	1-163-123-00	CERAMIC CHIP	180PF	5%	50V	
C346	1-163-033-00	CERAMIC CHIP	0.022MF		50V	
C347	1-124-791-11	ELECT	1MF	20%	50V	

REF.NO.	PART NO.	DESCRIPTION				REMARK
C348	1-124-791-11	ELECT	1MF	20%	50V	
C349	1-164-232-11	CERAMIC CHIP	0.01MF		50V	
C350	1-164-232-11	CERAMIC CHIP	0.01MF		50V	
C351	1-106-375-12	MYLAR	0.022MF	10%	250V	
C352	1-106-375-12	MYLAR	0.022MF	10%	250V	
C353	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V	
C354	1-124-910-11	ELECT	47MF	20%	50V	
C357	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C358	1-124-917-11	ELECT	33MF	20%	50V	
C359	1-163-103-00	CERAMIC CHIP	27PF	5%	50V	
C360	1-164-232-11	CERAMIC CHIP	0.01MF		50V	
C364	1-163-105-00	CERAMIC CHIP	33PF	5%	50V	
C365	1-124-910-11	ELECT	47MF	20%	50V	
C366	1-126-103-11	ELECT	470MF	20%	16V	
C367	1-164-232-11	CERAMIC CHIP	0.01MF		50V	
C381	1-124-902-00	ELECT	0.47MF	20%	50V	
C382	1-124-927-11	ELECT	4.7MF	20%	50V	
C384	1-124-910-11	ELECT	47MF	20%	50V	
C385	1-124-927-11	ELECT	4.7MF	20%	50V	
C386	1-124-927-11	ELECT	4.7MF	20%	50V	
C387	1-124-791-11	ELECT	1MF	20%	50V	
C388	1-106-220-00	MYLAR	0.1MF	10%	100V	
C401	1-101-361-00	CERAMIC	150PF	5%	50V	
C402	1-163-197-00	CERAMIC CHIP	470PF	5%	50V	
C403	1-164-232-11	CERAMIC CHIP	0.01MF		50V	
C1311	1-163-105-00	CERAMIC CHIP	33PF	5%	50V	
C1312	1-163-101-00	CERAMIC CHIP	22PF	5%	50V	
C1313	1-102-953-00	CERAMIC	18PF	5%	50V	
		<TRIMMER>				
CT331	1-141-181-11	CAP,TRIMMER				
CT332	1-141-181-11	CAP,TRIMMER				
		<DIODE>				
D301	8-719-911-19	DIODE 1SS119				
D302	8-719-911-19	DIODE 1SS119				
D303	8-719-911-19	DIODE 1SS119				
D304	8-719-911-19	DIODE 1SS119				
D305	8-719-911-19	DIODE 1SS119				
D307	8-719-110-23	DIODE RD11ES-B3				
D308	8-719-800-76	DIODE 1SS226				
D309	8-719-911-19	DIODE 1SS119				
D310	8-719-110-23	DIODE RD11ES-B3				
D311	8-719-110-23	DIODE RD11ES-B3				
D312	8-719-110-23	DIODE RD11ES-B3				
D313	8-719-911-19	DIODE 1SS119				
D314	8-719-911-19	DIODE 1SS119				
D315	8-719-911-19	DIODE 1SS119				
D316	8-719-911-19	DIODE 1SS119				
D317	8-719-911-19	DIODE 1SS119				
D318	8-719-911-19	DIODE 1SS119				
D319	8-719-911-19	DIODE 1SS119				
D320	8-719-911-19	DIODE 1SS119				
D331	8-719-911-19	DIODE 1SS119				
D332	8-719-911-19	DIODE 1SS119				
D333	8-719-911-19	DIODE 1SS119				
D350	8-719-109-90	DIODE RD5.6ES-B3				
		<DELAY LINE>				
DL332	1-236-062-11	MODULE, Y DELAY LINE				

B

REF.NO.	PART NO.	DESCRIPTION	REMARK
DL401	1-415-613-11	DELAY LINE, Y	
		<IC>	
IC301	8-759-979-85	IC TDA4580-V4	
IC302	8-759-980-60	IC TDA8442-N3	
IC303	8-759-240-53	IC TC4053BP	
IC331	8-759-990-29	IC TDA4650	
IC332	8-759-990-30	IC TDA4660	
IC1301	1-235-534-11	CONTROL MODULE, PICTURE	
		<COIL>	
L301	1-410-868-21	INDUCTOR 4.7UH	
L302	1-410-868-21	INDUCTOR 4.7UH	
L331	1-404-554-11	COIL	
L336	1-404-554-11	COIL	
L338	1-408-409-00	INDUCTOR 10UH	
L1301	1-408-425-00	INDUCTOR 220UH	
L1302	1-408-419-00	INDUCTOR 68UH	
		<TRANSISTOR>	
Q303	8-729-271-22	TRANSISTOR 2SC2712-G	
Q305	8-729-901-00	TRANSISTOR DTC124EK	
Q306	8-729-271-22	TRANSISTOR 2SC2712-G	
Q311	8-729-271-22	TRANSISTOR 2SC2712-G	
Q312	8-729-271-22	TRANSISTOR 2SC2712-G	
Q313	8-729-271-22	TRANSISTOR 2SC2712-G	
Q316	8-729-271-22	TRANSISTOR 2SC2712-G	
Q330	8-729-216-22	TRANSISTOR 2SA1162-G	
Q331	8-729-901-00	TRANSISTOR DTC124EK	
Q332	8-729-216-22	TRANSISTOR 2SA1162-G	
Q333	8-729-216-22	TRANSISTOR 2SA1162-G	
Q334	8-729-271-22	TRANSISTOR 2SC2712-G	
Q335	8-729-271-22	TRANSISTOR 2SC2712-G	
Q336	8-729-901-00	TRANSISTOR DTC124EK	
Q381	8-729-901-00	TRANSISTOR DTC124EK	
Q382	8-729-271-22	TRANSISTOR 2SC2712-G	
Q1301	8-729-901-00	TRANSISTOR DTC124EK	
Q1305	8-729-271-22	TRANSISTOR 2SC2712-G	
Q1306	8-729-271-22	TRANSISTOR 2SC2712-G	
		<RESISTOR>	
R301	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R302	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R303	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R304	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R305	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R307	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R308	1-216-184-00	METAL GLAZE 270 5% 1/8W	
R309	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R310	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R311	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R312	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R313	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R314	1-216-182-00	METAL GLAZE 220 5% 1/8W	
R315	1-216-031-00	METAL GLAZE 180 5% 1/10W	
R316	1-216-031-00	METAL GLAZE 180 5% 1/10W	
R317	1-216-031-00	METAL GLAZE 180 5% 1/10W	
R318	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R319	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R320	1-216-198-00	METAL GLAZE 1K 5% 1/8W	
R321	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R322	1-216-055-00	METAL GLAZE 1.8K 5% 1/10W	
R323	1-249-422-11	CARBON 2.7K 5% 1/4W	
R324	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R325	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R328	1-216-009-00	METAL GLAZE 22 5% 1/10W	
R329	1-216-009-00	METAL GLAZE 22 5% 1/10W	
R330	1-216-009-00	METAL GLAZE 22 5% 1/10W	
R331	1-216-001-00	METAL GLAZE 10 5% 1/10W	
R332	1-216-184-00	METAL GLAZE 270 5% 1/8W	
R333	1-216-121-00	METAL GLAZE 1M 5% 1/10W	
R334	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R335	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W	
R336	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R337	1-216-184-00	METAL GLAZE 270 5% 1/8W	
R338	1-216-001-00	METAL GLAZE 10 5% 1/10W	
R339	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R340	1-216-121-00	METAL GLAZE 1M 5% 1/10W	
R341	1-216-031-00	METAL GLAZE 180 5% 1/10W	
R342	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R344	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R346	1-216-202-00	METAL GLAZE 1.5K 5% 1/8W	
R347	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R348	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R354	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R355	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R356	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W	
R357	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R358	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R359	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R360	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R361	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R362	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R363	1-216-055-00	METAL GLAZE 1.8K 5% 1/10W	
R364	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
R365	1-216-047-00	METAL GLAZE 820 5% 1/10W	
R366	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
R367	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R370	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R372	1-216-023-00	METAL GLAZE 82 5% 1/10W	
R376	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R378	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R379	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R380	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
R381	1-216-093-00	METAL GLAZE 68K 5% 1/10W	
R382	1-216-103-00	METAL GLAZE 180K 5% 1/10W	
R383	1-216-115-00	METAL GLAZE 560K 5% 1/10W	
R385	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R386	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R387	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R388	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R389	1-216-101-00	METAL GLAZE 150K 5% 1/10W	
R391	1-216-023-00	METAL GLAZE 82 5% 1/10W	
R392	1-216-019-00	METAL GLAZE 56 5% 1/10W	
R393	1-216-019-00	METAL GLAZE 56 5% 1/10W	
R394	1-216-019-00	METAL GLAZE 56 5% 1/10W	
R398	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R401	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	
R402	1-216-051-00	METAL GLAZE 1.2K 5% 1/10W	
R403	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R404	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
R405	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R406	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	

Replace only with part number specified.

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REF.NO.	PART NO.	DESCRIPTION				REMARK
R407	1-216-047-00	METAL GLAZE	820	5%	1/10W	
R410	1-216-184-00	METAL GLAZE	270	5%	1/8W	
R412	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R1301	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1302	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1303	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1304	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
		<VARIABLE RESISTOR>				
RV331	1-238-012-11	RES, ADJ, CARBON 1K				
		<CRYSTAL>				
X331	1-567-307-11	OSCILLATOR, CRYSTAL				
X332	1-567-131-00	OSCILLATOR, CRYSTAL				
**********						
	*1-631-216-12	F1 BOARD ********				
	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P				
	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P				
	*1-565-395-11	PIN, CONNECTOR 3P				
	*1-566-664-11	PIN, CONNECTOR 4P				
	*1-568-106-11	PIN, CONNECTOR 4P				
	*1-568-878-51	PIN, CONNECTOR 3P				
		<CAPACITOR>				
C1601⚠	1-136-518-11	FILM	0.33MF	20%	300V	
C1602⚠	1-136-519-11	FILM	0.47MF	20%	300V	
C1603⚠	1-162-578-51	CERAMIC	0.0047MF	20%	400V	
C1604⚠	1-162-578-51	CERAMIC	0.0047MF	20%	400V	
C1605⚠	1-162-578-51	CERAMIC	0.0047MF	20%	400V	
C1606⚠	1-162-578-51	CERAMIC	0.0047MF	20%	400V	
C1607⚠	1-161-964-61	CERAMIC	0.0047MF		250V	
		<FUSE>				
F1601⚠	1-532-350-11	FUSE, TIME-LAG 4A/250V				
	1-533-087-00	HOLDER, FUSE; F1601				
		<TRANSFORMER>				
LF1601⚠	1-421-866-12	LFT				
LF1602⚠	1-421-776-11	LFT				
LF1603⚠	1-421-592-21	TRANSFORMER, FERRITE				
		<RESISTOR>				
R1601⚠	1-246-513-75	CARBON	47K	5%	1/4W	
R1602⚠	1-244-945-91	CARBON	1M	5%	1/2W	
R1603⚠	1-217-328-11	WIREWOUND	2.7	10%	7W F	
R1604⚠	1-246-513-75	CARBON	47K	5%	1/4W	
R1605⚠	1-218-265-91	METAL GLAZE	8.2M	5%	1W	
		<THERMISTOR>				
THP601⚠	1-808-059-31	THERMISTOR, POSITIVE				
**********						

REF.NO.	PART NO.	DESCRIPTION				REMARK
	*1-631-223-11	F2 BOARD ********				
	*1-566-664-11	PIN, CONNECTOR 4P				
		<SWITCH>				
S1701⚠	1-571-433-11	SWITCH, PUSH (AC POWER)				
**********						
	*A-1632-003-A	A BOARD, COMPLETE **********				
	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)				
	*1-564-881-11	PLUG, CONNECTOR 4P				
	*1-564-886-11	PLUG, CONNECTOR 9P				
	*1-566-659-11	CONNECTOR, HINGE (SOCKET) 18P				
		<CAPACITOR>				
C101	1-126-233-11	ELECT	22MF	20%	50V	
C102	1-126-103-11	ELECT	470MF	20%	16V	
C104	1-124-477-11	ELECT	47MF	20%	16V	
C106	1-126-233-11	ELECT	22MF	20%	50V	
C108	1-136-165-00	FILM	0.1MF	5%	50V	
C109	1-102-824-00	CERAMIC	470PF	5%	50V	
C111	1-124-925-11	ELECT	2.2MF	20%	50V	
C115	1-124-925-11	ELECT	2.2MF	20%	50V	
C127	1-126-101-11	ELECT	100MF	20%	16V	
C128	1-124-477-11	ELECT	47MF	20%	16V	
C129	1-124-477-11	ELECT	47MF	20%	16V	
C151	1-124-477-11	ELECT	47MF	20%	16V	
C152	1-106-383-00	MYLAR	0.047MF	10%	100V	
C153	1-101-004-00	CERAMIC	0.01MF		50V	
C154	1-101-004-00	CERAMIC	0.01MF		50V	
C177	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C181	1-101-004-00	CERAMIC	0.01MF		50V	
		<FILTER>				
CD101	1-404-684-11	DISCRIMINATOR, CERAMIC				
CF101	1-567-569-11	FILTER, CERAMIC				
		<DIODE>				
D105	8-719-911-19	DIODE 1SS119				
		<IC>				
IC103	8-759-979-62	IC PCF8574				
IC105	8-759-003-90	IC TBA129				
		<COIL>				
L100	1-410-116-11	INDUCTOR	0.56MMH			
L101	1-408-225-00	INDUCTOR	3.3UH			
L102	1-408-413-00	INDUCTOR	22UH			
L108	1-408-410-00	INDUCTOR	12UH			
		<TRANSISTOR>				
Q113	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q114	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q115	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q116	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q125	8-729-900-89	TRANSISTOR DTC144ES				

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Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK
Q126	8-729-900-65	TRANSISTOR DTA144ES				
Q181	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q182	8-729-900-89	TRANSISTOR DTC144ES				
		<RESISTOR>				
R101	1-249-405-11	CARBON	100	5%	1/4W	
R104	1-249-432-11	CARBON	18K	5%	1/4W	
R105	1-249-432-11	CARBON	18K	5%	1/4W	
R107	1-249-433-11	CARBON	22K	5%	1/4W	
R110	1-249-429-11	CARBON	10K	5%	1/4W	
R111	1-249-423-11	CARBON	3.3K	5%	1/4W	
R118	1-249-435-11	CARBON	33K	5%	1/4W	
R128	1-249-406-11	CARBON	120	5%	1/4W	
R129	1-249-421-11	CARBON	2.2K	5%	1/4W	
R130	1-249-421-11	CARBON	2.2K	5%	1/4W	
R152	1-249-417-11	CARBON	1K	5%	1/4W	
R153	1-249-417-11	CARBON	1K	5%	1/4W	
R154	1-249-414-11	CARBON	560	5%	1/4W	
R155	1-249-417-11	CARBON	1K	5%	1/4W	
R156	1-249-431-11	CARBON	15K	5%	1/4W	
R158	1-249-409-11	CARBON	220	5%	1/4W	
R159	1-249-409-11	CARBON	220	5%	1/4W	
R161	1-249-437-11	CARBON	47K	5%	1/4W	
R162	1-249-440-11	CARBON	82K	5%	1/4W	
R163	1-249-440-11	CARBON	82K	5%	1/4W	
R164	1-249-430-11	CARBON	12K	5%	1/4W	
R165	1-249-430-11	CARBON	12K	5%	1/4W	
R167	1-249-422-11	CARBON	2.7K	5%	1/4W	
R168	1-249-437-11	CARBON	47K	5%	1/4W	
R169	1-249-422-11	CARBON	2.7K	5%	1/4W	
R181	1-249-417-11	CARBON	1K	5%	1/4W	
R182	1-249-425-11	CARBON	4.7K	5%	1/4W	
R193	1-249-429-11	CARBON	10K	5%	1/4W	
		<TUNER>				
TU101	⚠ 1-465-302-11	TUNER, ET (U-944(PLL))				
		<IF BLOCK>				
VIF101	1-466-065-13	IF BLOCK (IFG-395S)				
		**********				
	*A-1638-002-A	C BOARD, COMPLETE				
		**********				
	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P				
	*1-568-878-61	PIN, CONNECTOR 3P				
	*1-568-881-51	PIN, CONNECTOR 6P				
	*4-379-160-01	COVER (REAR LID), CV				
	*4-379-167-01	COVER (MAIN), CV				
	*4-386-664-01	SPRING				
		<CONNECTOR>				
C71	*1-506-371-00	PIN, CONNECTOR 2P				
		<CAPACITOR>				
C703	1-102-980-00	CERAMIC	270PF	5%	50V	
C704	1-102-116-00	CERAMIC	680PF	10%	50V	
C705	1-102-978-00	CERAMIC	220PF	5%	50V	
C706	1-102-116-00	CERAMIC	680PF	10%	50V	
C707	1-162-116-00	CERAMIC	680PF	10%	2KV	
C708	1-162-114-00	CERAMIC	0.0047MF		2KV	
C709	1-102-116-00	CERAMIC	680PF	10%	50V	
C710	1-123-947-00	ELECT	10MF	20%	250V	
C711	1-101-880-00	CERAMIC	47PF	5%	50V	
C712	1-102-980-00	CERAMIC	270PF	5%	50V	
C714	1-124-360-00	ELECT	1000MF	20%	16V	
C716	1-162-622-11	CERAMIC	330PF	10%	400V	
C717	1-102-114-00	CERAMIC	470PF	10%	50V	
C718	1-102-114-00	CERAMIC	470PF	10%	50V	
C719	1-102-114-00	CERAMIC	470PF	10%	50V	
		<DIODE>				
D701	8-719-110-14	DIODE RD9.1ES-B3				
D702	8-719-911-19	DIODE 1SS119				
D703	8-719-911-19	DIODE 1SS119				
D704	8-719-911-19	DIODE 1SS119				
D705	8-719-911-19	DIODE 1SS119				
D706	8-719-911-19	DIODE 1SS119				
D707	8-719-911-19	DIODE 1SS119				
D708	8-719-911-19	DIODE 1SS119				
D709	8-719-911-19	DIODE 1SS119				
D710	8-719-911-19	DIODE 1SS119				
D711	8-719-300-33	DIODE RU-3AM				
D713	8-719-911-19	DIODE 1SS119				
		<JACK>				
J701	1-526-798-51	SOCKET, PICTURE TUBE				
		<COIL>				
L704	1-410-878-21	INDUCTOR	33UH			
		<TRANSISTOR>				
Q702	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q703	8-729-326-11	TRANSISTOR 2SC2611				
Q704	8-729-200-17	TRANSISTOR 2SA1091-O				
Q705	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q706	8-729-326-11	TRANSISTOR 2SC2611				
Q707	8-729-200-17	TRANSISTOR 2SA1091-O				
Q708	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q709	8-729-326-11	TRANSISTOR 2SC2611				
Q710	8-729-200-17	TRANSISTOR 2SA1091-O				
		<RESISTOR>				
R704	1-216-486-00	METAL OXIDE	8.2K	5%	3W	F
R705	1-202-824-00	SOLID	3.3K	10%	1/2W	
R706	1-249-409-11	CARBON	220	5%	1/4W	
R707	1-249-412-11	CARBON	390	5%	1/4W	
R708	1-249-401-11	CARBON	47	5%	1/4W	
R709	1-202-844-00	SOLID	330K	10%	1/2W	
R710	1-215-465-00	METAL	68K	1%	1/6W	
R712	1-249-417-11	CARBON	1K	5%	1/4W	
R713	1-215-471-00	METAL	120K	1%	1/6W	
R714	1-216-486-00	METAL OXIDE	8.2K	5%	3W	F
R715	1-202-824-00	SOLID	3.3K	10%	1/2W	
R716	1-249-409-11	CARBON	220	5%	1/4W	
R717	1-249-415-11	CARBON	680	5%	1/4W	
R718	1-202-814-11	SOLID	33K	10%	1/2W	
R719	1-249-401-11	CARBON	47	5%	1/4W	

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

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REF.NO.	PART NO.	DESCRIPTION				REMARK
R720	1-249-423-11	CARBON	3.3K	5%	1/4W	
R721	1-202-842-11	SOLID	220K	10%	1/2W	
R722	1-202-848-00	SOLID	680K	10%	1/2W	
R723	1-249-417-11	CARBON	1K	5%	1/4W	
R724	1-202-846-00	SOLID	470K	10%	1/2W	
R725	1-202-838-00	SOLID	100K	10%	1/2W	
R726	1-202-824-00	SOLID	3.3K	10%	1/2W	
R727	1-249-409-11	CARBON	220	5%	1/4W	
R728	1-216-347-11	METAL OXIDE	0.68	5%	1W	F
R729	1-249-416-11	CARBON	820	5%	1/4W	
R730	1-249-401-11	CARBON	47	5%	1/4W	
R731	1-249-423-11	CARBON	3.3K	5%	1/4W	
R732	1-249-415-11	CARBON	680	5%	1/4W	
R733	1-249-415-11	CARBON	680	5%	1/4W	
R734	1-249-405-11	CARBON	100	5%	1/4W	
R735	1-215-493-00	METAL	1M	1%	1/6W	
R736	1-216-486-00	METAL OXIDE	8.2K	5%	3W	F
R737	1-215-491-00	METAL	820K	1%	1/6W	
R739	1-249-417-11	CARBON	1K	5%	1/4W	

<VARIABLE RESISTOR>

RV701	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M	
RV702 ⚠	1-230-619-11	RES, ADJ, METAL GLAZE 110M	
RV703	1-237-749-11	RES, ADJ, CARBON 2200	
RV704	1-237-749-11	RES, ADJ, CARBON 2200	

****

*A-1642-002-A	D BOARD, COMPLETE	
	**********	
*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P	
*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)	
*1-564-505-11	PLUG, CONNECTOR 2P	
*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR	
*1-565-395-11	PIN, CONNECTOR 3P	
*1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)	
*1-566-660-11	CONNECTOR, HINGE (PLUG) 18P	
*1-568-536-11	PLUG (MINIATURE DY) 6P	
*1-568-878-51	PIN, CONNECTOR 3P	
*1-568-879-61	PIN, CONNECTOR 4P	
*1-568-881-51	PIN, CONNECTOR 6P	
*1-568-881-61	PIN, CONNECTOR 6P	
*1-568-882-51	PIN, CONNECTOR 7P	
*1-568-882-71	PIN, CONNECTOR 7P	
4-200-001-01	HOLDER, IC	
*4-341-751-01	EYELET	
*4-341-752-01	EYELET	
*4-368-683-01	SPRING	

<CAPACITOR>

C002	1-102-074-00	CERAMIC	0.001MF	10%	50V
C003	1-126-233-11	ELECT	22MF	20%	50V
C004	1-124-120-11	ELECT	220MF	20%	16V
C005	1-124-791-11	ELECT	1MF	20%	50V
C006	1-102-978-00	CERAMIC	220PF	5%	50V
C007	1-102-978-00	CERAMIC	220PF	5%	50V
C008	1-101-880-00	CERAMIC	47PF	5%	50V
C009	1-101-880-00	CERAMIC	47PF	5%	50V
C010	1-124-120-11	ELECT	220MF	20%	16V
C011	1-101-004-00	CERAMIC	0.01MF		50V
C012	1-123-875-11	ELECT	10MF	20%	50V
C013	1-106-220-00	MYLAR	0.1MF	10%	100V

REF.NO.	PART NO.	DESCRIPTION			REMARK
C014	1-106-220-00	MYLAR	0.1MF	10%	100V
C015	1-124-902-00	ELECT	0.47MF	20%	50V
C016	1-101-361-00	CERAMIC	150PF	5%	50V
C017	1-106-220-00	MYLAR	0.1MF	10%	100V
C018	1-102-980-00	CERAMIC	270PF	5%	50V
C019	1-106-383-00	MYLAR	0.047MF	10%	100V
C020	1-124-917-11	ELECT	33MF	20%	50V
C021	1-102-973-00	CERAMIC	100PF	5%	50V
C022	1-101-004-00	CERAMIC	0.01MF		50V
C023	1-102-973-00	CERAMIC	100PF	5%	50V
C024	1-102-973-00	CERAMIC	100PF	5%	50V
C025	1-102-973-00	CERAMIC	100PF	5%	50V
C027	1-124-910-11	ELECT	47MF	20%	50V
C251	1-124-791-11	ELECT	1MF	20%	50V
C252	1-126-233-11	ELECT	22MF	20%	50V
C253	1-102-074-00	CERAMIC	0.001MF	10%	50V
C254	1-106-220-00	MYLAR	0.1MF	10%	100V
C255	1-124-636-00	ELECT	3300MF	20%	25V
C261	1-124-791-11	ELECT	1MF	20%	50V
C262	1-126-233-11	ELECT	22MF	20%	50V
C263	1-102-074-00	CERAMIC	0.001MF	10%	50V
C264	1-106-220-00	MYLAR	0.1MF	10%	100V
C265	1-124-564-11	ELECT	4700MF	20%	25V
C501	1-124-927-11	ELECT	4.7MF	20%	50V
C502	1-124-927-11	ELECT	4.7MF	20%	50V
C503	1-106-371-00	MYLAR	0.015MF	10%	400V
C504	1-101-361-00	CERAMIC	150PF	5%	50V
C505	1-108-794-11	MYLAR	0.0015MF	5%	50V
C506	1-106-375-12	MYLAR	0.022MF	10%	250V
C507	1-130-783-00	MYLAR	0.33MF	10%	100V
C508	1-106-375-12	MYLAR	0.022MF	10%	250V
C509	1-106-220-00	MYLAR	0.1MF	10%	100V
C510	1-161-959-00	CERAMIC	22PF	10%	500V
C511	1-108-620-11	MYLAR	0.0033MF	10%	100V
C512	1-106-220-00	MYLAR	0.1MF	10%	100V
C513	1-102-978-00	CERAMIC	220PF	5%	50V
C514	1-106-228-00	MYLAR	0.22MF	10%	100V
C515	1-124-791-11	ELECT	1MF	20%	50V
C516	1-108-614-11	MYLAR	0.001MF	10%	100V
C517	1-124-252-00	ELECT	0.33MF	20%	50V
C518	1-124-902-00	ELECT	0.47MF	20%	50V
C519	1-136-171-00	FILM	0.33MF	5%	50V
C520	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C521	1-106-220-00	MYLAR	0.1MF	10%	100V
C522	1-124-122-11	ELECT	100MF	20%	50V
C523	1-108-614-11	MYLAR	0.001MF	10%	100V
C524	1-108-798-11	MYLAR	0.0033MF	5%	50V
C525	1-102-973-00	CERAMIC	100PF	5%	50V
C526	1-102-951-00	CERAMIC	15PF	5%	50V
C527	1-106-220-00	MYLAR	0.1MF	10%	100V
C531	1-124-190-00	ELECT	680MF	10%	25V
C532	1-124-122-11	ELECT	100MF	20%	50V
C533	1-106-216-00	MYLAR	0.068MF	10%	100V
C534	1-124-120-11	ELECT	220MF	20%	16V
C536	1-131-365-00	TANTALUM	10MF	10%	16V
C537	1-124-791-11	ELECT	1MF	20%	50V
C538	1-108-614-11	MYLAR	0.001MF	10%	100V
C539	1-102-820-00	CERAMIC	330PF	5%	50V
C592	1-124-122-11	ELECT	100MF	20%	50V
C593	1-102-820-00	CERAMIC	330PF	5%	50V
C601 ⚠	1-161-964-61	CERAMIC	0.0047MF		250V
C602 ⚠	1-161-964-61	CERAMIC	0.0047MF		250V
C603 ⚠	1-161-964-61	CERAMIC	0.0047MF		250V

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REF.NO.	PART NO.	DESCRIPTION			REMARK
C604 ⚠	1-125-318-11	ELECT(BLOCK)	220MF	20%	400V
C605	1-124-510-11	ELECT	220MF	20%	35V
C606	1-102-114-00	CERAMIC	470PF	10%	50V
C607	1-130-834-00	MYLAR	1MF	10%	63V
C608	1-124-927-11	ELECT	4.7MF	20%	50V
C609	1-126-233-11	ELECT	22MF	20%	50V
C611	1-124-910-11	ELECT	47MF	20%	50V
C612	1-108-614-11	MYLAR	0.001MF	10%	100V
C613	1-136-539-11	FILM	0.0022MF	3%	2KV
C614	1-102-030-00	CERAMIC	330PF	10%	500V
C615	1-124-557-11	ELECT	1000MF	20%	25V
C616	1-102-030-00	CERAMIC	330PF	10%	500V
C617	1-124-912-11	ELECT	330MF	20%	50V
C618	1-162-115-00	CERAMIC	330PF	10%	2KV
C619	1-124-556-11	ELECT	2200MF	20%	16V
C620	1-136-173-00	FILM	0.47MF	5%	50V
C621	1-124-347-00	ELECT	100MF	20%	160V
C622	1-124-556-11	ELECT	2200MF	20%	16V
C623	1-124-910-11	ELECT	47MF	20%	50V
C624	1-124-122-11	ELECT	100MF	20%	50V
C625	1-124-360-00	ELECT	1000MF	20%	16V
C626	1-123-875-11	ELECT	10MF	20%	50V
C627	1-108-614-11	MYLAR	0.001MF	10%	100V
C628	1-162-116-00	CERAMIC	680PF	10%	2KV
C631	1-124-910-11	ELECT	47MF	20%	50V
C632	1-102-074-00	CERAMIC	0.001MF	10%	50V
C633	1-102-973-00	CERAMIC	100PF	5%	50V
C801	1-126-105-11	ELECT	1000MF	20%	35V
C802	1-102-030-00	CERAMIC	330PF	10%	500V
C804	1-123-948-00	ELECT	22MF	20%	250V
C805	1-162-114-00	CERAMIC	0.0047MF		2KV
C806	1-106-220-00	MYLAR	0.1MF	10%	100V
C807	1-106-395-00	MYLAR	0.15MF	10%	200V
C810	1-123-024-21	ELECT	33MF		160V
C811	1-136-113-00	FILM	2MF	5%	200V
C812	1-124-634-11	ELECT	1MF	20%	250V
C813	1-102-212-00	CERAMIC	820PF	10%	500V
C814 ⚠	1-161-731-11	CERAMIC	0.001MF	10%	2KV
C815	1-136-111-00	FILM	1MF	5%	200V
C817	1-136-565-11	FILM	0.015MF	3%	1.4KV
C818	1-136-759-11	FILM	0.039MF	10%	630V
C819 ⚠	1-161-731-11	CERAMIC	0.001MF	10%	2KV
C820	1-106-218-00	MYLAR	0.0082MF	10%	400V
C821 ⚠	1-162-116-51	CERAMIC	680PF	10%	2KV
C822	1-102-114-00	CERAMIC	470PF	10%	50V
C823	1-106-359-00	MYLAR	0.0047MF	10%	400V
C824	1-102-212-00	CERAMIC	820PF	10%	500V
C825	1-106-375-12	MYLAR	0.022MF	10%	250V

<FILTER>

CF001	1-577-364-11	VIBRATOR, CERAMIC
CF501	1-567-888-11	OSCILLATOR, CERAMIC

<DIODE>

D001	8-719-911-19	DIODE 1SS119
D002	8-719-109-98	DIODE RD6.8ES-B3
D003	8-719-911-19	DIODE 1SS119
D004	8-719-911-19	DIODE 1SS119
D005	8-719-109-89	DIODE RD5.6ES-B2
D006	8-719-110-76	DIODE RD33ES-B1
D007	8-719-911-19	DIODE 1SS119
D009	8-719-109-89	DIODE RD5.6ES-B2
D010	8-719-109-93	DIODE RD6.2ES-B2
D011	8-719-109-93	DIODE RD6.2ES-B2
D271	8-719-110-36	DIODE RD13ES-B2
D272	8-719-911-19	DIODE 1SS119
D501	8-719-911-19	DIODE 1SS119
D504	8-719-911-55	DIODE U05G
D506	8-719-016-42	DIODE MC932
D508	8-719-911-19	DIODE 1SS119
D509	8-719-911-19	DIODE 1SS119
D511	8-719-911-55	DIODE U05G
D512	8-719-911-55	DIODE U05G
D513	8-719-109-81	DIODE RD4.7ES-B2
D514	8-719-911-19	DIODE 1SS119
D515	8-719-911-19	DIODE 1SS119
D601 ⚠	8-719-946-90	DIODE KBU4JL-6088
D602	8-719-300-33	DIODE RU-3AM
D603	8-719-911-55	DIODE U05G
D604	8-719-911-55	DIODE U05G
D605	8-719-911-55	DIODE U05G
D606	8-719-300-33	DIODE RU-3AM
D607	8-719-300-33	DIODE RU-3AM
D608	8-719-300-33	DIODE RU-3AM
D609	8-719-110-76	DIODE RD33ES-B1
D610	8-719-300-59	DIODE CTU-12S
D611	8-719-900-26	DIODE ERD29-08J
D612	8-719-300-59	DIODE CTU-12S
D613	8-719-300-33	DIODE RU-3AM
D614	8-719-300-33	DIODE RU-3AM
D616	8-719-109-93	DIODE RD6.2ES-B2
D617	8-719-911-19	DIODE 1SS119
D618	8-719-109-89	DIODE RD5.6ES-B2
D619	8-719-110-76	DIODE RD33ES-B1
D620	8-719-016-42	DIODE MC932
D621	8-719-110-76	DIODE RD33ES-B1
D622	8-719-911-19	DIODE 1SS119
D623	8-719-911-19	DIODE 1SS119
D624	8-719-911-19	DIODE 1SS119
D630	8-719-110-39	DIODE RD15ES-B1
D801	8-719-300-33	DIODE RU-3AM
D802	8-719-300-33	DIODE RU-3AM
D803	8-719-300-65	DIODE ES1F
D804	8-719-911-55	DIODE U05G
D805	8-719-911-55	DIODE U05G
D806	8-719-945-80	DIODE ERC06-15S
D807	8-719-945-80	DIODE ERC06-15S
D808	8-719-900-26	DIODE ERD29-08J

<IC>

IC001	8-759-035-37	IC SDA2083-A006
IC002	8-752-332-82	IC CXD1050A-09P
IC003	8-759-945-58	IC RC4558P
IC005	8-759-748-56	IC SDA2546
IC251	8-759-988-94	IC TDA2050
	4-201-023-01	SPACER, INSULATING; IC251
	4-812-134-00	RIVET NYLON, 3.5; IC251
IC261	8-759-988-94	IC TDA2050
	4-201-023-01	SPACER, INSULATING; IC261
	4-812-134-00	RIVET NYLON, 3.5; IC261
IC501	8-759-970-73	IC TEA2028B
IC502	8-759-944-57	IC TDA8170
IC601	8-759-988-95	IC TEA2260
IC604	8-759-144-84	IC UPC24M05HF
IC608	8-759-982-13	IC RC7812FA

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REF.NO.	PART NO.	DESCRIPTION	REMARK
		<COIL>	
L001	1-408-414-00	INDUCTOR 27UH	
L501	1-408-225-00	INDUCTOR 3.3UH	
L601	*1-420-872-00	COIL, AIR CORE	
L602	1-410-396-41	FERRITE BEAD INDUCTOR	
L603	1-410-396-41	FERRITE BEAD INDUCTOR	
L604	1-410-671-31	INDUCTOR 47UH	
L605	1-459-585-11	COIL (WITH CORE) (DRUM TYPE)	
L606	1-421-013-00	COIL (HORIZONTAL CHOKE) 25UH	
L607	1-410-671-31	INDUCTOR 47UH	
L803	1-459-104-00	COIL, DUST CORE	
L804	1-408-239-00	INDUCTOR 4.7MMH	
L805 ⚠	1-459-755-12	COIL, HORIZONTAL LINEARITY	
L806	1-459-111-00	COIL, DRAM CORE (CD1)	
L809	*1-420-872-00	COIL, AIR CORE	
L810 ⚠	1-421-982-12	PMC	
		<IC LINK>	
PS601 ⚠	1-532-984-91	LINK, IC (ICP-N50) 2A	
PS602 ⚠	1-532-984-91	LINK, IC (ICP-N50) 2A	
PS603 ⚠	1-532-984-91	LINK, IC (ICP-N50) 2A	
		<TRANSISTOR>	
Q001	8-729-900-89	TRANSISTOR DTC144ES	
Q002	8-729-900-65	TRANSISTOR DTA144ES	
Q003	8-729-173-38	TRANSISTOR 2SA733-K	
Q004	8-729-173-38	TRANSISTOR 2SA733-K	
Q005	8-729-900-89	TRANSISTOR DTC144ES	
Q006	8-729-900-89	TRANSISTOR DTC144ES	
Q007	8-729-900-89	TRANSISTOR DTC144ES	
Q008	8-729-900-89	TRANSISTOR DTC144ES	
Q009	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q251	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q261	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q271	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q502	8-729-173-38	TRANSISTOR 2SA733-K	
Q505	8-729-140-96	TRANSISTOR 2SD774-34	
Q506	8-729-140-97	TRANSISTOR 2SB734-34	
Q507	8-729-173-38	TRANSISTOR 2SA733-K	
Q598	8-729-173-38	TRANSISTOR 2SA733-K	
Q601	8-729-111-67	TRANSISTOR 2SB1094-L	
Q602	8-729-209-02	TRANSISTOR 2SD1548-LB	
Q603	8-729-111-67	TRANSISTOR 2SB1094-L	
Q604	8-729-173-38	TRANSISTOR 2SA733-K	
Q605	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q606	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q607	8-729-920-92	TRANSISTOR 2SD2096-EF	
Q608	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q609	8-729-320-62	TRANSISTOR 2SD789-34	
Q801	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q804	8-729-304-50	TRANSISTOR 2SD1941-06	
Q805	8-729-119-80	TRANSISTOR 2SC2688-LK	
		<RESISTOR>	
R001	1-249-413-11	CARBON 470 5% 1/4W	
R002	1-249-413-11	CARBON 470 5% 1/4W	
R003	1-249-417-11	CARBON 1K 5% 1/4W	
R004	1-249-417-11	CARBON 1K 5% 1/4W	
R005	1-249-417-11	CARBON 1K 5% 1/4W	
R006	1-249-429-11	CARBON 10K 5% 1/4W	
R007	1-249-425-11	CARBON 4.7K 5% 1/4W	
R008	1-249-429-11	CARBON 10K 5% 1/4W	
R009	1-249-429-11	CARBON 10K 5% 1/4W	
R010	1-249-413-11	CARBON 470 5% 1/4W	
R011	1-249-425-11	CARBON 4.7K 5% 1/4W	
R012	1-249-417-11	CARBON 1K 5% 1/4W	
R013	1-249-429-11	CARBON 10K 5% 1/4W	
R014	1-249-428-11	CARBON 8.2K 5% 1/4W	
R015	1-249-423-11	CARBON 3.3K 5% 1/4W	
R016	1-249-435-11	CARBON 33K 5% 1/4W	
R017	1-249-436-11	CARBON 39K 5% 1/4W	
R018	1-249-440-11	CARBON 82K 5% 1/4W	
R019	1-249-417-11	CARBON 1K 5% 1/4W	
R020	1-249-417-11	CARBON 1K 5% 1/4W	
R021	1-249-425-11	CARBON 4.7K 5% 1/4W	
R022	1-249-425-11	CARBON 4.7K 5% 1/4W	
R023	1-249-410-11	CARBON 270 5% 1/4W	
R024	1-249-417-11	CARBON 1K 5% 1/4W	
R025	1-249-405-11	CARBON 100 5% 1/4W	
R026	1-249-417-11	CARBON 1K 5% 1/4W	
R027	1-249-405-11	CARBON 100 5% 1/4W	
R028	1-249-405-11	CARBON 100 5% 1/4W	
R029	1-249-429-11	CARBON 10K 5% 1/4W	
R030	1-249-429-11	CARBON 10K 5% 1/4W	
R031	1-249-433-11	CARBON 22K 5% 1/4W	
R032	1-249-429-11	CARBON 10K 5% 1/4W	
R033	1-249-429-11	CARBON 10K 5% 1/4W	
R034	1-249-431-11	CARBON 15K 5% 1/4W	
R035	1-249-433-11	CARBON 22K 5% 1/4W	
R036	1-249-432-11	CARBON 18K 5% 1/4W	
R037	1-249-425-11	CARBON 4.7K 5% 1/4W	
R038	1-249-422-11	CARBON 2.7K 5% 1/4W	
R039	1-249-433-11	CARBON 22K 5% 1/4W	
R040	1-249-431-11	CARBON 15K 5% 1/4W	
R041	1-249-429-11	CARBON 10K 5% 1/4W	
R042	1-249-417-11	CARBON 1K 5% 1/4W	
R043	1-249-413-11	CARBON 470 5% 1/4W	
R044	1-249-441-11	CARBON 100K 5% 1/4W	
R045	1-249-423-11	CARBON 3.3K 5% 1/4W	
R046	1-249-435-11	CARBON 33K 5% 1/4W	
R047	1-249-429-11	CARBON 10K 5% 1/4W	
R048	1-249-429-11	CARBON 10K 5% 1/4W	
R049	1-249-429-11	CARBON 10K 5% 1/4W	
R050	1-249-426-11	CARBON 5.6K 5% 1/4W	
R051	1-249-413-11	CARBON 470 5% 1/4W	
R052	1-249-417-11	CARBON 1K 5% 1/4W	
R053	1-249-417-11	CARBON 1K 5% 1/4W	
R054	1-249-417-11	CARBON 1K 5% 1/4W	
R055	1-249-411-11	CARBON 330 5% 1/4W	
R056	1-249-405-11	CARBON 100 5% 1/4W	
R057	1-249-409-11	CARBON 220 5% 1/4W	
R058	1-249-424-11	CARBON 3.9K 5% 1/4W	
R059	1-249-417-11	CARBON 1K 5% 1/4W	
R060	1-249-417-11	CARBON 1K 5% 1/4W	
R061	1-249-417-11	CARBON 1K 5% 1/4W	
R062	1-249-417-11	CARBON 1K 5% 1/4W	
R063	1-249-417-11	CARBON 1K 5% 1/4W	
R064	1-249-417-11	CARBON 1K 5% 1/4W	
R065	1-249-417-11	CARBON 1K 5% 1/4W	
R066	1-249-417-11	CARBON 1K 5% 1/4W	
R067	1-249-417-11	CARBON 1K 5% 1/4W	
R068	1-249-417-11	CARBON 1K 5% 1/4W	
R069	1-249-417-11	CARBON 1K 5% 1/4W	
R070	1-249-417-11	CARBON 1K 5% 1/4W	

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REF.NO.	PART NO.	DESCRIPTION				REMARK
R071	1-249-417-11	CARBON	1K	5%	1/4W	
R072	1-249-417-11	CARBON	1K	5%	1/4W	
R073	1-249-417-11	CARBON	1K	5%	1/4W	
R074	1-249-425-11	CARBON	4.7K	5%	1/4W	
R075	1-249-409-11	CARBON	220	5%	1/4W	
R251	1-249-425-11	CARBON	4.7K	5%	1/4W	
R252	1-249-412-11	CARBON	390	5%	1/4W	
R253	1-249-429-11	CARBON	10K	5%	1/4W	
R254	1-216-357-00	METAL OXIDE	4.7	5%	1W	F
R255	1-249-429-11	CARBON	10K	5%	1/4W	
R256	1-247-897-11	CARBON	560K	5%	1/4W	
R257	1-249-431-11	CARBON	15K	5%	1/4W	
R258	1-215-869-11	METAL OXIDE	1K	5%	1W	F
R259	1-249-425-11	CARBON	4.7K	5%	1/4W	
R261	1-249-425-11	CARBON	4.7K	5%	1/4W	
R262	1-249-412-11	CARBON	390	5%	1/4W	
R263	1-249-429-11	CARBON	10K	5%	1/4W	
R264	1-216-357-00	METAL OXIDE	4.7	5%	1W	F
R265	1-249-429-11	CARBON	10K	5%	1/4W	
R266	1-247-897-11	CARBON	560K	5%	1/4W	
R267	1-249-431-11	CARBON	15K	5%	1/4W	
R268	1-215-869-11	METAL OXIDE	1K	5%	1W	F
R269	1-249-425-11	CARBON	4.7K	5%	1/4W	
R271	1-249-415-11	CARBON	680	5%	1/4W	
R272	1-249-429-11	CARBON	10K	5%	1/4W	
R273	1-249-429-11	CARBON	10K	5%	1/4W	
R500	1-247-897-11	CARBON	560K	5%	1/4W	
R501	1-249-413-11	CARBON	470	5%	1/4W	
R502	1-249-409-11	CARBON	220	5%	1/4W	
R503	1-249-410-11	CARBON	270	5%	1/4W	
R504	1-215-427-00	METAL	1.8K	1%	1/6W	
R505	1-249-431-11	CARBON	15K	5%	1/4W	
R506	1-249-428-11	CARBON	8.2K	5%	1/4W	
R509	1-249-424-11	CARBON	3.9K	5%	1/4W	
R510	1-249-426-11	CARBON	5.6K	5%	1/4W	
R514	1-249-409-11	CARBON	220	5%	1/4W	
R515	1-249-423-11	CARBON	3.3K	5%	1/4W	
R517	1-249-429-11	CARBON	10K	5%	1/4W	
R518	1-249-437-11	CARBON	47K	5%	1/4W	
R519	1-249-433-11	CARBON	22K	5%	1/4W	
R520	1-249-411-11	CARBON	330	5%	1/4W	
R521	1-249-405-11	CARBON	100	5%	1/4W	
R522	1-215-469-00	METAL	100K	1%	1/6W	
R523	1-249-417-11	CARBON	1K	5%	1/4W	
R524	1-249-421-11	CARBON	2.2K	5%	1/4W	
R526	1-249-409-11	CARBON	220	5%	1/4W	F
R527	1-249-431-11	CARBON	15K	5%	1/4W	
R528	1-249-408-11	CARBON	180	5%	1/4W	
R529	1-249-427-11	CARBON	6.8K	5%	1/4W	
R530	1-249-448-11	CARBON	1.2	5%	1/4W	F
R531	1-247-881-00	CARBON	120K	5%	1/4W	
R532	1-249-417-11	CARBON	1K	5%	1/4W	
R534	1-247-901-11	CARBON	820K	5%	1/4W	
R535	1-249-749-00	CARBON	2.2M	5%	1/4W	
R536	1-249-749-00	CARBON	2.2M	5%	1/4W	
R537	1-249-434-11	CARBON	27K	5%	1/4W	
R538	1-247-883-00	CARBON	150K	5%	1/4W	
R539	1-247-883-00	CARBON	150K	5%	1/4W	
R540	1-249-399-11	CARBON	33	5%	1/4W	
R541	1-249-438-11	CARBON	56K	5%	1/4W	
R542	1-249-389-11	CARBON	4.7	5%	1/4W	
R543	1-249-451-11	CARBON	2.2	5%	1/4W	
R544	1-247-745-11	CARBON	330	5%	1/2W	
R545	1-247-862-11	CARBON	20K	5%	1/4W	

REF.NO.	PART NO.	DESCRIPTION				REMA
R546	1-249-434-11	CARBON	27K	5%	1/4W	
R547	1-249-423-11	CARBON	3.3K	5%	1/4W	
R548	1-216-349-00	METAL OXIDE	1	5%	1W	F
R549	1-216-454-11	METAL OXIDE	390	5%	2W	F
R550	1-249-440-11	CARBON	82K	5%	1/4W	
R551	1-249-749-00	CARBON	2.2M	5%	1/4W	
R553	1-216-869-11	METAL OXIDE	1K	5%	1W	
R554	1-249-411-11	CARBON	330	5%	1/4W	
R555	1-249-749-00	CARBON	2.2M	5%	1/4W	
R556	1-249-405-11	CARBON	100	5%	1/4W	
R557	1-249-425-11	CARBON	4.7K	5%	1/4W	
R558	1-247-895-00	CARBON	470K	5%	1/4W	
R559	1-249-427-11	CARBON	6.8K	5%	1/4W	
R560	1-249-411-11	CARBON	330	5%	1/4W	
R570	1-249-415-11	CARBON	680	5%	1/4W	
R591	1-249-416-11	CARBON	820	5%	1/4W	
R592	1-249-417-11	CARBON	1K	5%	1/4W	
R593	1-249-419-11	CARBON	1.5K	5%	1/4W	
R594	1-249-428-11	CARBON	8.2K	5%	1/4W	
R597	1-249-413-11	CARBON	470	5%	1/4W	
R598	1-215-900-11	METAL OXIDE	22K	5%	2W	F
R599	1-247-887-00	CARBON	220K	5%	1/4W	
R600	1-249-381-11	CARBON	1	5%	1/4W	
R601	1-249-441-11	CARBON	100K	5%	1/4W	
R603	1-216-400-11	METAL OXIDE	8.2	5%	3W	F
R604	1-249-405-11	CARBON	100	5%	1/4W	
R605	1-249-433-11	CARBON	22K	5%	1/4W	
R606	1-249-418-11	CARBON	1.2K	5%	1/4W	
R607	1-249-425-11	CARBON	4.7K	5%	1/4W	
R608 ⚠	1-216-488-51	METAL OXIDE	18K	5%	3W	F
R609	1-249-396-11	CARBON	18	5%	1/4W	
R610	1-244-941-00	CARBON	680K	5%	1/2W	
R611	1-249-400-11	CARBON	39	5%	1/4W	
R612	1-249-417-11	CARBON	1K	5%	1/4W	
R613	1-249-441-11	CARBON	100K	5%	1/4W	
R614	1-205-758-11	WIREWOUND	100	10%	10W	F
R616	1-247-881-00	CARBON	120K	5%	1/4W	
R617	1-249-411-11	CARBON	330	5%	1/4W	
R618	1-216-431-11	METAL OXIDE	560	5%	1W	F
R619	1-249-429-11	CARBON	10K	5%	1/4W	
R620	1-249-433-11	CARBON	22K	5%	1/4W	
R621	1-249-431-11	CARBON	15K	5%	1/4W	
R622	1-249-429-11	CARBON	10K	5%	1/4W	
R623	1-249-433-11	CARBON	22K	5%	1/4W	
R624	1-249-426-11	CARBON	5.6K	5%	1/4W	
R625	1-215-865-11	METAL OXIDE	220	5%	1W	F
R626	1-249-411-11	CARBON	330	5%	1/4W	
R628	1-249-393-11	CARBON	10	5%	1/4W	
R629	1-249-411-11	CARBON	330	5%	1/4W	
R633	1-249-417-11	CARBON	1K	5%	1/4W	
R634	1-216-430-11	METAL OXIDE	390	5%	1W	F
R635	1-249-429-11	CARBON	10K	5%	1/4W	
R636	1-249-429-11	CARBON	10K	5%	1/4W	
R643	1-217-189-21	WIREWOUND	0.12	5%	2W	F
R647	1-216-485-11	METAL OXIDE	5.6K	5%	3W	F
R648	1-216-485-11	METAL OXIDE	5.6K	5%	3W	F
R651	1-249-405-11	CARBON	100	5%	1/4W	
R653	1-205-758-11	WIREWOUND	100	10%	10W	F
R802	1-249-443-11	CARBON	0.47	5%	1/4W	F
R805	1-249-448-11	CARBON	1.2	5%	1/4W	F
R806	1-249-439-11	CARBON	68K	5%	1/4W	
R807	1-216-869-11	METAL OXIDE	1K	5%	1W	
R809	1-202-821-11	SOLID	1.8K	10%	1/2W	
R810	1-202-818-00	SOLID	1K	10%	1/2W	

Replace only with part number specified.

D V

REF.NO.	PART NO.	DESCRIPTION				REMARK
R811	1-215-882-00	METAL OXIDE	22	5%	2W	F
R812	1-249-494-11	CARBON	68K	5%	1/2W	
R815	1-215-884-11	METAL OXIDE	47	5%	2W	F
R816	1-215-868-00	METAL OXIDE	680	5%	1W	F
R817	1-249-417-11	CARBON	1K	5%	1/4W	
R820	1-249-403-11	CARBON	68	5%	1/4W	
R821	1-247-725-11	CARBON	10K	5%	1/4W	F
R822 ⚠	1-217-778-61	FUSIBLE	1K	5%	1W	F
R825	1-216-345-11	METAL OXIDE	0.47	5%	1W	F
R826	1-249-441-11	CARBON	100K	5%	1/4W	
R827	1-249-429-11	CARBON	10K	5%	1/4W	
R828	1-249-423-11	CARBON	3.3K	5%	1/4W	
R829	1-249-416-11	CARBON	820	5%	1/4W	
R831	1-249-451-11	CARBON	2.2	5%	1/4W	
R5501	1-249-429-11	CARBON	10K	5%	1/4W	
R5503	1-249-393-11	CARBON	10	5%	1/4W	
R5504	1-247-903-00	CARBON	1M	5%	1/4W	
R5505	1-249-393-11	CARBON	10	5%	1/4W	

<VARIABLE RESISTOR>

RV501	1-238-013-11	RES, ADJ, CARBON 2.2K	
RV502	1-238-016-11	RES, ADJ, CARBON 10K	
RV601	1-238-011-11	RES, ADJ, CARBON 470	

<SPARK GAP>

SG801	1-519-422-11	GAP, SPARK

<TRANSFORMER>

T601 ⚠	1-449-822-11	TRANSFORMER
T602 ⚠	1-424-277-11	TRANSFORMER, TRIGGER PULSE
T801 ⚠	1-437-090-21	HDT
T802 ⚠	1-439-416-11	TRANSFORMER ASSY, FLYBACK (UX-1600)

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*A-1645-001-A	V BOARD, COMPLETE	
	**********	
*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P	
*1-565-393-11	CONNECTOR, BOARD TO BOARD	

<CAPACITOR>

C01	1-126-101-11	ELECT	100MF	20%	16V
C02	1-124-120-11	ELECT	220MF	20%	16V
C03	1-124-119-00	ELECT	330MF	20%	16V
C04	1-124-910-11	ELECT	47MF	20%	50V
C05	1-126-101-11	ELECT	100MF	20%	16V
C06	1-126-101-11	ELECT	100MF	20%	16V
C07	1-124-791-11	ELECT	1MF	20%	50V
C08	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C09	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C10	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C11	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C12	1-163-127-00	CERAMIC CHIP	270PF	5%	50V
C13	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C14	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C15	1-163-103-00	CERAMIC CHIP	27PF	5%	50V
C16	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C17	1-163-035-00	CERAMIC CHIP	0.047MF		50V
C18	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C19	1-163-035-00	CERAMIC CHIP	0.047MF		50V
C20	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C21	1-163-833-00	CERAMIC CHIP	0.068MF		25V
C22	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C23	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C24	1-126-101-11	ELECT	100MF	20%	16V
C25	1-106-216-00	MYLAR	0.068MF	10%	100V
C26	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C27	1-124-791-11	ELECT	1MF	20%	50V
C28	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
C29	1-124-927-11	ELECT	4.7MF	20%	50V
C30	1-163-103-00	CERAMIC CHIP	27PF	5%	50V
C31	1-123-875-11	ELECT	10MF	20%	50V
C50	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C51	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C52	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C53	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C54	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C55	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C56	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C57	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C58	1-124-910-11	ELECT	47MF	20%	50V

<TRIMMER>

CT01	1-141-181-11	CAP,TRIMMER

<DIODE>

D01	8-719-105-91	DIODE RD5.6M-B2
D02	8-719-106-79	DIODE RD13M-B1
D03	8-719-400-18	DIODE MA152WK
D04	8-719-105-52	DIODE RD3.6M-B2
D07	8-719-106-17	DIODE RD6.8M-B2
D08	8-719-105-91	DIODE RD5.6M-B2
D09	8-719-400-18	DIODE MA152WK
D10	8-719-400-18	DIODE MA152WK
D11	8-719-914-44	DIODE DAP202K
D12	8-719-914-44	DIODE DAP202K
D13	8-719-400-18	DIODE MA152WK
D14	8-719-400-18	DIODE MA152WK
D15	8-719-400-18	DIODE MA152WK

<IC>

IC01	8-759-999-82	IC MAB8461P-W200
IC02	8-759-972-96	IC SAA5231-V6
IC03	8-759-946-85	IC SAA5243E
IC04	8-759-230-68	IC TMM2063P-70
IC05	8-759-996-23	IC M74HC04B1R
IC06	8-759-147-43	IC CXD8045S
IC07	8-759-146-49	IC UPD424256C-100
IC08	8-759-146-49	IC UPD424256C-100
IC09	8-759-996-24	IC M74HC164B1R

<COIL>

L01	1-408-411-00	INDUCTOR	15UH
L04	1-408-407-00	INDUCTOR	6.8UH
L05	1-408-407-00	INDUCTOR	6.8UH
L06	1-408-407-00	INDUCTOR	6.8UH

<IC LINK>

PS01 ⚠	1-532-679-91	LINK, IC (ICP-N15)
PS02 ⚠	1-532-727-91	LINK, IC

V H1

REF.NO.	PART NO.	DESCRIPTION	REMARK
		<TRANSISTOR>	
Q01	8-729-920-92	TRANSISTOR 2SD2096-EF	
Q02	8-729-807-50	TRANSISTOR 2SD1623 R	
Q03	8-729-271-22	TRANSISTOR 2SC2712-G	
Q04	8-729-271-22	TRANSISTOR 2SC2712-G	
Q05	8-729-807-50	TRANSISTOR 2SD1623-R	
Q06	8-729-271-22	TRANSISTOR 2SC2712-G	
Q07	8-729-271-22	TRANSISTOR 2SC2712-G	
Q09	8-729-807-87	TRANSISTOR 2SB1295-UL6	
Q10	8-729-807-87	TRANSISTOR 2SB1295-UL6	
Q11	8-729-807-87	TRANSISTOR 2SB1295-UL6	
Q12	8-729-271-22	TRANSISTOR 2SC2712-G	
Q13	8-729-271-22	TRANSISTOR 2SC2712-G	
Q14	8-729-271-22	TRANSISTOR 2SC2712-G	
Q15	8-729-271-22	TRANSISTOR 2SC2712-G	
Q16	8-729-271-22	TRANSISTOR 2SC2712-G	
		<RESISTOR>	
JW1	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JW5	1-216-295-00	METAL GLAZE 0 5% 1/10W	
R01	1-218-326-11	METAL GLAZE 470 5% 1/2W	
R02	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R03	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R04	1-218-326-11	METAL GLAZE 470 5% 1/2W	
R05	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R06	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R07	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R08	1-216-037-00	METAL GLAZE 330 5% 1/10W	
R09	1-216-091-00	METAL GLAZE 56K 5% 1/10W	
R13	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R14	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R15	1-216-121-00	METAL GLAZE 1M 5% 1/10W	
R16	1-216-055-00	METAL GLAZE 1.8K 5% 1/10W	
R17	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R18	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R19	1-216-037-00	METAL GLAZE 330 5% 1/10W	
R20	1-216-043-00	METAL GLAZE 560 5% 1/10W	
R27	1-216-013-00	METAL GLAZE 33 5% 1/10W	
R28	1-216-013-00	METAL GLAZE 33 5% 1/10W	
R29	1-216-013-00	METAL GLAZE 33 5% 1/10W	
R30	1-218-325-11	METAL GLAZE 120 5% 1/4W	
R31	1-218-325-11	METAL GLAZE 120 5% 1/4W	
R32	1-218-325-11	METAL GLAZE 120 5% 1/4W	
R33	1-216-023-00	METAL GLAZE 82 5% 1/10W	
R34	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R37	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R38	1-216-047-00	METAL GLAZE 820 5% 1/10W	
R40	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R41	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R43	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R44	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R45	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R46	1-216-311-00	METAL GLAZE 6.8 5% 1/10W	
R47	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R48	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R50	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R51	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R52	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R53	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R54	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R55	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R56	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R57	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R58	1-216-091-00	METAL GLAZE 56K 5% 1/10W	
R59	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R60	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R61	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R62	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R63	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R64	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R65	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R66	1-216-071-00	METAL GLAZE 8.2K 5% 1/10W	
R67	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R68	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R69	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R70	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R71	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R72	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R73	1-216-071-00	METAL GLAZE 8.2K 5% 1/10W	
R74	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R75	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R76	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R77	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R78	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R80	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R81	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W	
R82	1-216-076-00	METAL GLAZE 13K 5% 1/10W	
R83	1-216-083-00	METAL GLAZE 27K 5% 1/10W	
R84	1-216-295-00	METAL GLAZE 0 5% 1/10W	
R85	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R86	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R87	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R88	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R89	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
		<VARIABLE RESISTOR>	
RV01	1-238-009-11	RES, ADJ, CARBON 220	
		<CRYSTAL>	
X01	1-567-162-00	OSCILLATOR, CRYSTAL	
X03	1-577-082-11	VIBRATOR, CERAMIC	
		**********	
	*1-631-220-11	H1 BOARD	
		********	
	1-562-837-11	JACK	
	*1-564-512-11	PLUG, CONNECTOR 9P	
	1-568-678-11	TERMINAL BLOCK, S 3P	
	*1-568-878-51	PIN, CONNECTOR 3P	
	*1-568-879-51	PIN, CONNECTOR 4P	
	*1-568-879-61	PIN, CONNECTOR 4P	
		<RESISTOR>	
R1651	1-249-413-11	CARBON 470 5% 1/4W	
R1652	1-249-413-11	CARBON 470 5% 1/4W	
		<SWITCH>	
S1651	1-571-532-21	SWITCH, TACTIL	
S1652	1-571-532-21	SWITCH, TACTIL	

REF.NO.	PART NO.	DESCRIPTION			REMARK
S1653	1-571-532-21	SWITCH, TACTIL			
**********					
	*1-631-221-11	H2 BOARD			
		********			
	*1-568-882-51	PIN, CONNECTOR 7P			
	*4-374-987-01	GUIDE, LIGHT			
	*4-381-686-01	BRACKET (B), LIGHT GUIDE			
		<DIODE>			
D1651	8-719-311-89	DIODE SEL1222R-C			
	*4-387-801-01	HOLDER, LED; D1651			
D1652	8-719-311-89	DIODE SEL1222R-C			
	*4-387-801-01	HOLDER, LED; D1652			
D1653	8-719-311-89	DIODE SEL1222R-C			
	*4-387-801-01	HOLDER, LED; D1653			
D1654	8-719-948-31	DIODE LD-201VR			
	*4-387-825-02	HOLDER, LED; D1654			
		<IC>			
IC1651	8-741-138-70	IC BX-1387			
		<RESISTOR>			
R1661	1-249-413-11	CARBON	470	5%	1/4W
R1662	1-249-413-11	CARBON	470	5%	1/4W
**********					
	*1-163-217-12	Y BOARD			
		*******			
	*1-568-881-61	PIN, CONNECTOR 6P			
	*1-568-882-71	PIN, CONNECTOR 7P			
		<CAPACITOR>			
C1701	1-126-233-11	ELECT	22MF	20%	50V
C1702	1-101-004-00	CERAMIC	0.01MF		50V
C1703	1-126-233-11	ELECT	22MF	20%	50V
C1704	1-101-004-00	CERAMIC	0.01MF		50V
C1705	1-126-233-11	ELECT	22MF	20%	50V
C1706	1-126-233-11	ELECT	22MF	20%	50V
C1707	1-126-233-11	ELECT	22MF	20%	50V
C1710	1-102-959-00	CERAMIC	22PF	5%	50V
C1711	1-101-888-00	CERAMIC	68PF	5%	50V
		<DIODE>			
D1701	8-719-911-19	DIODE ISS119			
		<NR PACK>			
DNR170	1-466-181-11	NR PACK (NRP-2E)			
		<IC>			
IC1701	8-759-982-10	IC RC7809FA			
IC1702	8-759-604-29	IC M5F7805			
		<COIL>			
L1701	1-410-671-31	INDUCTOR	47UH		
L1702	1-408-405-00	INDUCTOR	4.7UH		
L1703	1-410-671-31	INDUCTOR	47UH		
		<TRANSISTOR>			
Q1701	8-729-900-89	TRANSISTOR DTC144ES			
Q1702	8-729-900-89	TRANSISTOR DTC144ES			
Q1703	8-729-900-80	TRANSISTOR DTC114ES			
Q1704	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q1705	8-729-173-38	TRANSISTOR 2SA733-K			
		<RESISTOR>			
R1701	1-215-860-11	METAL OXIDE	33	5%	1W
R1702	1-249-425-11	CARBON	4.7K	5%	1/4W
R1703	1-249-434-11	CARBON	27K	5%	1/4W
R1704	1-249-425-11	CARBON	4.7K	5%	1/4W
R1705	1-249-426-11	CARBON	5.6K	5%	1/4W
R1706	1-249-427-11	CARBON	6.8K	5%	1/4W
R1707	1-249-429-11	CARBON	10K	5%	1/4W
R1708	1-249-429-11	CARBON	10K	5%	1/4W
R1710	1-249-433-11	CARBON	22K	5%	1/4W
R1711	1-249-438-11	CARBON	56K	5%	1/4W
R1712	1-249-413-11	CARBON	470	5%	1/4W
R1713	1-249-414-11	CARBON	560	5%	1/4W
R1714	1-249-417-11	CARBON	1K	5%	1/4W
R1717	1-249-417-11	CARBON	1K	5%	1/4W
R1718	1-249-417-11	CARBON	1K	5%	1/4W
R1723	1-249-415-11	CARBON	680	5%	1/4W
**********					
	*1-631-222-11	J2 BOARD			
		********			
	1-537-088-21	TERMINAL BOARD, INPUT/OUTPUT			
	*1-564-517-11	PLUG, CONNECTOR 2P			
	*1-564-519-11	PLUG, CONNECTOR 4P			
		<CAPACITOR>			
C1751	1-101-005-00	CERAMIC	0.022MF		50V
C1752	1-101-005-00	CERAMIC	0.022MF		50V
C1755	1-102-114-00	CERAMIC	470PF	10%	50V
C1756	1-102-114-00	CERAMIC	470PF	10%	50V
		<COIL>			
L1751	1-412-240-11	INDUCTOR, WIDE BAND			
L1752	1-412-240-11	INDUCTOR, WIDE BAND			
**********					
	*A-1651-009-A	J1 BOARD, COMPLETE			
		**********			
	1-561-534-41	SOCKET 21P			
	*1-564-518-11	PLUG, CONNECTOR 3P			
	*1-564-524-11	PLUG, CONNECTOR 9P			
	*1-564-527-11	PLUG, CONNECTOR 12P			
	*1-566-641-11	CONNECTOR, HINGE (TAB) 18P			
		<CAPACITOR>			
C203	1-124-925-11	ELECT	2.2MF	20%	50V
C205	1-124-927-11	ELECT	4.7MF	20%	50V
C206	1-124-925-11	ELECT	2.2MF	20%	50V

J1

REF.NO.	PART NO.	DESCRIPTION				REMARK
C207	1-124-927-11	ELECT	4.7MF	20%	50V	
C213	1-126-233-11	ELECT	22MF	20%	50V	
C214	1-106-363-00	MYLAR	0.0068MF	10%	400V	
C217	1-106-363-00	MYLAR	0.0068MF	10%	400V	
C218	1-106-375-12	MYLAR	0.022MF	10%	250V	
C219	1-106-375-12	MYLAR	0.022MF	10%	250V	
C220	1-108-620-11	MYLAR	0.0033MF	10%	100V	
C221	1-108-620-11	MYLAR	0.0033MF	10%	100V	
C222	1-106-385-00	MYLAR	0.056MF	10%	100V	
C223	1-106-385-00	MYLAR	0.056MF	10%	100V	
C224	1-106-367-00	MYLAR	0.01MF	10%	400V	
C225	1-136-173-00	FILM	0.47MF	5%	50V	
C226	1-136-173-00	FILM	0.47MF	5%	50V	
C227	1-106-375-12	MYLAR	0.022MF	10%	250V	
C228	1-106-379-12	MYLAR	0.033MF	10%	250V	
C229	1-106-371-00	MYLAR	0.015MF	10%	400V	
C230	1-106-371-00	MYLAR	0.015MF	10%	400V	
C231	1-124-902-00	ELECT	0.47MF	20%	50V	
C232	1-123-875-11	ELECT	10MF	20%	50V	
C233	1-163-005-11	CERAMIC CHIP	470PF	10%	50V	
C234	1-163-005-11	CERAMIC CHIP	470PF	10%	50V	
C235	1-163-005-11	CERAMIC CHIP	470PF	10%	50V	
C236	1-163-005-11	CERAMIC CHIP	470PF	10%	50V	
C237	1-124-902-00	ELECT	0.47MF	20%	50V	
C238	1-163-125-00	CERAMIC CHIP	220PF	5%	50V	
C239	1-126-103-11	ELECT	470MF	20%	16V	
C1401	1-123-875-11	ELECT	10MF	20%	50V	
C1402	1-126-103-11	ELECT	470MF	20%	16V	
C1403	1-163-003-11	CERAMIC CHIP	330PF	10%	50V	
C1404	1-124-902-00	ELECT	0.47MF	20%	50V	
C1405	1-136-017-00	CERAMIC CHIP	0.0047MF		50V	
C1406	1-124-902-00	ELECT	0.47MF	20%	50V	
C1407	1-124-910-11	ELECT	47MF	20%	50V	
C1408	1-124-122-11	ELECT	100MF	20%	50V	
C1409	1-126-233-11	ELECT	22MF	20%	50V	
C1410	1-123-875-11	ELECT	10MF	20%	50V	
C1411	1-123-875-11	ELECT	10MF	20%	50V	
C1412	1-124-910-11	ELECT	47MF	20%	50V	
C1413	1-124-910-11	ELECT	47MF	20%	50V	
C1414	1-123-875-11	ELECT	10MF	20%	50V	
C1415	1-124-902-00	ELECT	0.47MF	20%	50V	
C1416	1-124-902-00	ELECT	0.47MF	20%	50V	
C1417	1-124-120-11	ELECT	220MF	20%	16V	
C1418	1-163-003-11	CERAMIC CHIP	330PF	10%	50V	
C1419	1-163-003-11	CERAMIC CHIP	330PF	10%	50V	
C1425	1-124-902-00	ELECT	0.47MF	20%	50V	
C1426	1-124-902-00	ELECT	0.47MF	20%	50V	
C1427	1-136-017-00	CERAMIC CHIP	0.0047MF		50V	
C1428	1-136-017-00	CERAMIC CHIP	0.0047MF		50V	
C1429	1-136-017-00	CERAMIC CHIP	0.0047MF		50V	
C1430	1-163-003-11	CERAMIC CHIP	330PF	10%	50V	
C1431	1-126-529-11	ELECT	0.47MF	20%	50V	
C1432	1-124-902-00	ELECT	0.47MF	20%	50V	
C1433	1-124-122-11	ELECT	100MF	20%	50V	
C1436	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C1437	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C1438	1-106-367-00	MYLAR	0.01MF	10%	400V	
C1439	1-106-367-00	MYLAR	0.01MF	10%	400V	
C1440	1-123-875-11	ELECT	10MF	20%	50V	
C1441	1-123-875-11	ELECT	10MF	20%	50V	
C1442	1-124-910-11	ELECT	47MF	20%	50V	
C1443	1-124-910-11	ELECT	47MF	20%	50V	
C1444	1-124-910-11	ELECT	47MF	20%	50V	
C1445	1-102-824-00	CERAMIC	470PF	5%	50V	
C1446	1-102-824-00	CERAMIC	470PF	5%	50V	
C1501	1-123-875-11	ELECT	10MF	20%	50V	
C1502	1-123-875-11	ELECT	10MF	20%	50V	
C1503	1-108-614-11	MYLAR	0.001MF	10%	100V	
C1504	1-124-910-11	ELECT	47MF	20%	50V	
C1505	1-106-383-00	MYLAR	0.047MF	10%	100V	
C1507	1-108-620-11	MYLAR	0.0033MF	10%	100V	
C1508	1-123-875-11	ELECT	10MF	20%	50V	
C1509	1-124-791-11	ELECT	1MF	20%	50V	
C1511	1-123-875-11	ELECT	10MF	20%	50V	
C1512	1-106-363-00	MYLAR	0.0068MF	10%	400V	
C1513	1-163-105-00	CERAMIC CHIP	33PF	5%	50V	
C1514	1-106-375-12	MYLAR	0.022MF	10%	250V	
C1515	1-102-117-00	CERAMIC	820PF	10%	50V	

<CONNECTOR>

CN1401	1-565-838-11	PIN JACK BLOCK 2P	

<DIODE>

D201	8-719-110-14	DIODE	RD9.1ES-B3
D202	8-719-110-14	DIODE	RD9.1ES-B3
D205	8-719-110-04	DIODE	RD7.5ES-B3
D206	8-719-110-04	DIODE	RD7.5ES-B3
D1401	8-719-110-04	DIODE	RD7.5ES-B3
D1403	8-719-110-04	DIODE	RD7.5ES-B3
D1404	8-719-110-04	DIODE	RD7.5ES-B3
D1405	8-719-110-04	DIODE	RD7.5ES-B3
D1406	8-719-110-04	DIODE	RD7.5ES-B3
D1407	8-719-110-18	DIODE	RD10ES-B3
D1408	8-719-110-14	DIODE	RD9.1ES-B3
D1409	8-719-110-14	DIODE	RD9.1ES-B3
D1410	8-719-110-14	DIODE	RD9.1ES-B3
D1415	8-719-110-04	DIODE	RD7.5ES-B3
D1418	8-719-110-04	DIODE	RD7.5ES-B3
D1419	8-719-110-04	DIODE	RD7.5ES-B3
D1420	8-719-110-04	DIODE	RD7.5ES-B3
D1421	8-719-110-04	DIODE	RD7.5ES-B3
D1422	8-719-110-04	DIODE	RD7.5ES-B3
D1423	8-719-110-04	DIODE	RD7.5ES-B3
D1424	8-719-110-04	DIODE	RD7.5ES-B3
D1425	8-719-110-04	DIODE	RD7.5ES-B3
D1426	8-719-110-04	DIODE	RD7.5ES-B3
D1501	8-719-300-33	DIODE	RU-3AM
D1502	8-719-911-19	DIODE	1SS119
D1503	8-719-911-19	DIODE	1SS119
D1504	8-719-911-19	DIODE	1SS119
D1505	8-719-911-19	DIODE	1SS119
D1506	8-719-110-85	DIODE	RD36ES-B4
D1507	8-719-911-19	DIODE	1SS119
D1510	8-719-911-19	DIODE	1SS119

<IC>

IC201	8-759-013-17	IC	TDA6200
IC1401	8-752-032-27	IC	CXA1114P
IC1402	8-759-946-32	IC	TEA2014A
IC1403	8-759-240-53	IC	TC4053BP
IC1501	8-759-942-16	IC	TEA2031A

REF.NO.	PART NO.	DESCRIPTION				REMARK
		<TRANSISTOR>				
Q201	8-729-271-22	TRANSISTOR 2SC2712-G				
Q202	8-729-271-22	TRANSISTOR 2SC2712-G				
Q1401	8-729-216-22	TRANSISTOR 2SA1162-G				
Q1402	8-729-271-22	TRANSISTOR 2SC2712-G				
Q1403	8-729-271-22	TRANSISTOR 2SC2712 G				
Q1404	8-729-216-22	TRANSISTOR 2SA1162-G				
		<RESISTOR>				
R201	1-216-091-00	METAL GLAZE	56K	5%	1/10W	
R202	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R203	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
R204	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R205	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R206	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R207	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R208	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R209	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R210	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R211	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R212	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R213	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R214	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R215	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R216	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R217	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R218	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R219	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R220	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R221	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R222	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R223	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R224	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R225	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R226	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R227	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R228	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R229	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
R230	1-216-091-00	METAL GLAZE	56K	5%	1/10W	
R231	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R232	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R233	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R234	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R240	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R1401	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R1402	1-216-170-00	METAL GLAZE	68	5%	1/8W	
R1403	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1404	1-216-178-00	METAL GLAZE	150	5%	1/8W	
R1405	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1407	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R1408	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1409	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1410	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1411	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1412	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1413	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R1414	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1415	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R1416	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R1417	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R1418	1-247-738-11	CARBON	82	5%	1/2W	F
R1422	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1423	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1424	1-216-089-00	METAL GLAZE	47K	5%	1/10W	

REF.NO.	PART NO.	DESCRIPTION				
R1425	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1426	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1427	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R1428	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R1429	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R1430	1-216-170-00	METAL GLAZE	68	5%	1/8W	
R1431	1-216-190-00	METAL GLAZE	470	5%	1/8W	
R1432	1-216-190-00	METAL GLAZE	470	5%	1/8W	
R1433	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R1434	1-249-393-11	CARBON	10	5%	1/4W	F
R1437	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1440	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R1441	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R1442	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1443	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1444	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R1445	1-216-095-00	METAL GLAZE	82K	5%	1/10W	
R1446	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R1447	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R1448	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1452	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1453	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1454	1-216-180-00	METAL GLAZE	180	5%	1/8W	
R1455	1-216-180-00	METAL GLAZE	180	5%	1/8W	
R1457	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1459	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1460	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1461	1-216-190-00	METAL GLAZE	470	5%	1/8W	
R1462	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R1463	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R1464	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R1465	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R1466	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R1467	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1468	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1469	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1470	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1471	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R1472	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R1473	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R1474	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R1476	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1477	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1478	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R1480	1-216-190-00	METAL GLAZE	470	5%	1/8W	
R1482	1-216-178-00	METAL GLAZE	150	5%	1/8W	
R1483	1-216-178-00	METAL GLAZE	150	5%	1/8W	
R1484	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1485	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1486	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1487	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1488	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1489	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1501	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1502	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R1503	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R1504	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R1505	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1506	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R1509	1-216-105-00	METAL GLAZE	220K	5%	1/10W	
R1510	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R1511	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1512	1-216-073-00	METAL GLAZE	10K	5%	1/10W	

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REF.NO.	PART NO.	DESCRIPTION				REMARK
R1513	1-216-091-00	METAL GLAZE	56K	5%	1/10W	
R1514	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1515	1-216-117-00	METAL GLAZE	680K	5%	1/10W	
R1516	1-216-079-00	METAL GLAZE	18K	5%	1/10W	
R1517	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R1519	1-216-101-00	METAL GLAZE	150K	5%	1/10W	
R1520	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R1521	1-216-214-00	METAL GLAZE	4.7K	5%	1/8W	
R1550⚠	1-213-036-11	FUSIBLE	1	5%	1W	F
R1556	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	

<VARIABLE RESISTOR>

RV1501	1-238-023-11	RES, ADJ, CARBON	470K
RV1502	1-228-994-00	RES, ADJ, CARBON	10K
RV1503	1-238-017-11	RES, ADJ, CARBON	22K
RV1504	1-238-012-11	RES, ADJ, CARBON	1K
RV1505	1-238-023-11	RES, ADJ, CARBON	470K
RV1506	1-238-017-11	RES, ADJ, CARBON	22K
RV1507	1-238-009-11	RES, ADJ, CARBON	220
RV1508	1-238-016-11	RES, ADJ, CARBON	10K
RV1509	1-238-023-11	RES, ADJ, CARBON	470K

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MISCELLANEOUS
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⚠	1-426-372-11	COIL, DEMAGNETIZATION
⚠	1-451-311-21	DEFLECTION YOKE (Y25FXA)
	1-452-032-00	MAGNET, DISK; 10MM ϕ
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ϕ
⚠	1-559-347-11	CORD, POWER (WITH CONNECTOR)
V901 ⚠	8-733-224-05	PICTURE TUBE (A59JWC60X)

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ACCESSORIES AND PACKING MATERIALS
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PART NO.	DESCRIPTION	REMARK
*A-1678-001-A	BOX ASSY, WOOFER	
*A-1678-010-A	BOX ASSY (RIGHT), SPEAKER	
*A-1678-012-A	BOX ASSY (LEFT), SPEAKER	
1-465-363-11	COMMANDER, REMOTE (RM-689)	
*3-704-280-01	BAG, PROTECTION (STANDARD)	
3-759-001-42	MANUAL, INSTRUCTION	
*4-201-012-01	CUSHION (UPPER) (ASSY)	
*4-201-013-01	CUSHION (LOWER) (ASSY)	
*4-201-015-01	INDIVIDUAL CARTON	
*4-380-340-01	BAG, PROTECTION	