SB-V900
RMT-900

SERVICE MANUAL

AEP Model

SPECIFICATIONS

Inputs/outputs

S video inputs (8)
- Jack type: 4-pin mini DIN
- Y signal: 1 Vp-p, 75 ohms unbalanced (when terminated), sync negative
- C signal (burst signal): 0.286 Vp-p, 75 ohms unbalanced (when terminated)

S video outputs (6)
- Jack type: 4-pin mini DIN
- Y signal: 1 Vp-p, 75 ohms unbalanced (when terminated), sync negative
- C signal (burst signal): 0.286 Vp-p, 75 ohms unbalanced (when terminated)

Video inputs (8)
- Jack type: Phono jack
- Reference signal input: 1.0 Vp-p, 75 ohms unbalanced (when terminated)
- Sync: Negative

Video outputs (6)
- Jack type: Phono jack
- Output level: 1.0 Vp-p, 75 ohms unbalanced (when terminated)
- Sync: Negative
- Signal-to-noise ratio: More than 48 dB
- Crosstalk: More than 45 dB (3.58 MHz)

Audio inputs (8)
- Jack type: Phono jack
- Reference signal input: −7.5 dB
- Input capacity: 2.0 Vrms
- Input impedance: More than 47 kilohms

Audio outputs (7)
- Jack type: Phono jack
- Output impedance: Less than 5 kilohms
- Gain: 0 dB
- Signal-to-noise ratio: More than 80 dB
- Separation: More than 80 dB
- Crosstalk: More than 80 dB

MONITOR OUT EURO-AV connector (1)
- Jack type: 21-pin

Others

Power requirements	240 V AC (for U.K.)/220 V AC (for other European countries), 50 Hz
Power consumption	26 W (5.0 W in standby condition)
Dimensions	430 × 115 × 370 mm (w/h/d) (17 × 4 5/8 × 14 5/8 inches)
Weight	Approx. 6.7 kg (14 lb. 12 oz.)
Accessories supplied	Remote Commander RMT-900 (1) Sony SUM-3(NS) batteries (2) Labels for input/output identification (1 set) Quick reference for connection and editing (1)

Remote Commander RMT-900

Remote control system	Infrared control
Power requirements	3 V DC
Dimensions	51 × 20 × 175 mm (2 1/8 × 13/16 × 7 inches)
Weight	Approx. 75 g (2.6 oz.) not including batteries

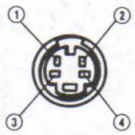
— Continued on next page —

MICROFILM

VIDEO/AUDIO SELECTOR
SONY®

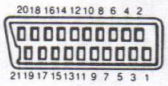
Pin assignment

S VIDEO input/output connector (4-pin)



① Chrominance signal (C)
② Luminance signal (Y)
③ Ground
④ Ground

MONITOR OUT EURO-AV connector (21-pin)



Pin No.	Composite video signal	S video signal
1	AUDIO OUT (R)	
3	AUDIO OUT (L)	
4	AUDIO COM. GND	
13	COMPOSITE VIDEO GND	S VIDEO GND
15	NC	S VIDEO CHROMA OUT
17	COMPOSITE VIDEO GND	NC
19	COMPOSITE VIDEO OUT	S VIDEO Y OUT
21	PLUG COM. SHIELD	

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
4. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
5. Check the B+ voltage to see it is at the values specified.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

TABLE OF CONTENTS

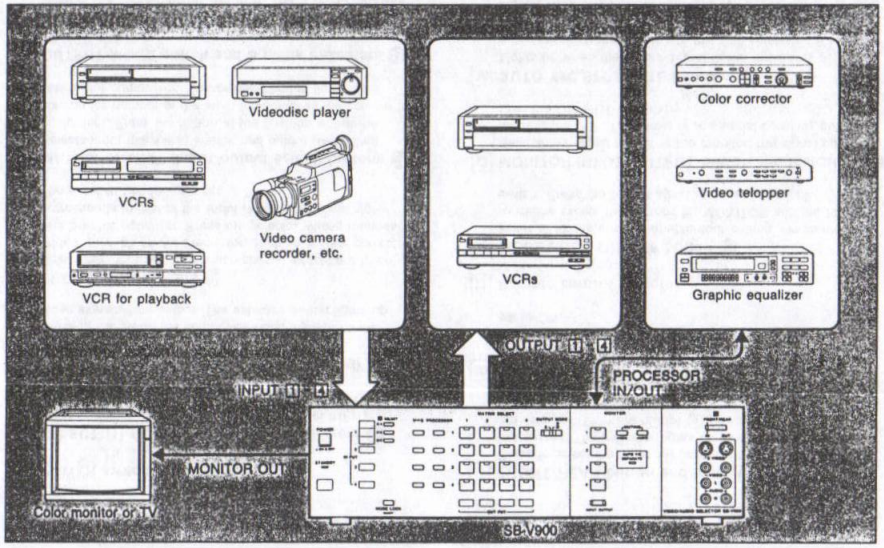
SECTION 1
GENERAL

This section is extracted from instruction manual.

Overview

Various Kinds of Equipment Can Be Connected

Up to eight different pieces of equipment can be connected to the input jacks, and seven to the output jacks.
For the four sets of input/output jacks, each input/output equipment can be freely selected.
All input/output jacks include S VIDEO jacks so that you can enjoy high quality picture playback and editing.



Full Matrix Select Function — Full Cross Dubbing

Free input/output designation is possible for the equipment connected to four sets of input/output jacks. Two different dubbings can be performed at the same time. You can also monitor either the picture being edited or another picture while editing.

Visual or Auditory Effects Can Be Added

By connecting AV processors such as a color corrector or an equalizer, various visual or auditory effects can be added to the edited picture.

Two Kinds of Output Mode

The output mode can be switched to mode A or B.
Mode A is for secure and simple editing. The INPUT and OUTPUT jacks of the same number must be connected to the same equipment. Designation of the same jack number for input and output is not possible in mode A.
Mode B is for flexible and diverse editing. The INPUT and OUTPUT jacks of the same number can be connected to two different pieces of equipment. Jacks of the same number can be designated for input and output at the same time in mode B.
By selecting the appropriate output mode, this unit can be fully used for various types of editing.

Y/C Separation Circuit

A composite video signal can be transformed into a Y/C separated S video signal when output. MONITOR OUT connector is equipped with the automatic Y/C separate circuit, so that if a monitor with S video input is connected, you can always monitor the picture on S video signal.

Precautions

On safety

- Operate the unit only on 220 V AC, 50 Hz.
- Should any liquid or solid object fall into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.
- Unplug the unit from the wall outlet if it will not be used for an extended period of time. To disconnect the cord, pull it out by grasping the plug. Never pull the cord itself.

On installation

- Do not install the unit in a location near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.
- Good air circulation is essential to prevent internal heat build-up in the unit. Place the unit in a location with adequate air circulation. Do not place the unit on a soft surface, such as a rug that would block the ventilation holes.

On connection

- Before connecting, be sure to turn off all equipment.
- Insert plugs securely, as loose connections may cause hum and noise.
- To disconnect the cord, pull it out by the plug. Never pull the cord itself.
- To avoid interference, turn off equipment not in use.
- If noise occurs in the picture or sound, move the pieces of equipment farther away from each other.
- For details on connections, refer to the instruction manual covering the corresponding equipment.

On operation

When the unit will not be used, turn the power off to conserve energy and to extend the useful life of your unit.

On cleaning the cabinet

Clean the cabinet, panels and controls with a soft cloth lightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzine.

On repacking

Do not throw away the carton and the packing material. It makes an ideal container to transport the unit in.

Accessories supplied

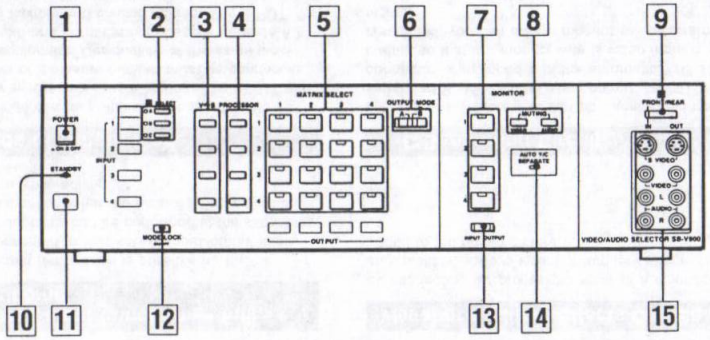
Remote Commander RMT-900 (1)

Size R6 (AA) batteries (2)

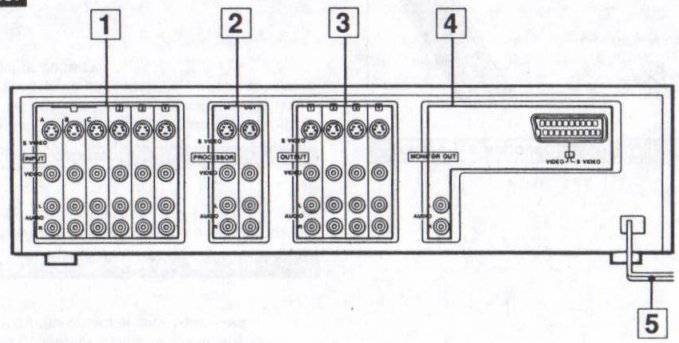
Labels for INPUT/OUTPUT identification (1 set)
Quick reference for connection and editing (1)

Location and Function of Controls

Front Refer to the pages indicated in ● for details.



Rear panel Refer to pages ● to ● for connections.



1 **POWER switch**

2 **SELECT 1 (A/B/C) buttons and indicators ⑯**
Press to select the input source connected to INPUT 1 (A/B/C) jacks. The indicator of the selected button lights up.

3 **V → S (composite → S video transforming) buttons ⑳**
Press to transform the composite video signal into the S video signal when output. The selected button lights up.

4 **PROCESSOR buttons ⑳**
Select the input signal to which special effects are to be added, through an AV processor, such as a color corrector or a graphic equalizer. Press the selector whose number corresponds to that of the input jack for the input signal. The pressed button lights up.

5 **MATRIX SELECT (input/output select) buttons ㉑**
Selects input (playback) source and output (recording) equipment. Press the button at the position where the column for number of the input jack crosses the column for that of the output jack. The pressed button lights up.

6 **OUTPUT MODE switch and B mode indicators ⑬ ⑳**
Normally set to A. When designating the input and output jacks of the same number, set to B. The B mode indicator lights up when such designation is made.

7 **MONITOR 1-4 buttons ⑱**
Press to select the number assigned for the jack where the desired video equipment is connected. The pressed button lights up.

8 **MONITOR MUTING VIDEO/AUDIO buttons ⑱**
Press to mute the picture (VIDEO) or sound (AUDIO) output. Press the button again to cancel the muting.

9 **FRONT/REAR button and indicator ⑯**
Press to select the input 4 jacks on the front or at the rear to be used. The indicator lights up when the front 4 jacks are selected. Both the output 4 jacks on the front and at the rear output the same signal simultaneously.

10 **STANDBY lamp**
Lights up when the power is turned off with the Remote Commander while the POWER switch on the main unit is set to ON.

11 **Remote control detector**

12 **MODE LOCK ON/OFF button ㉓**
Press to fix the current input/output setting. No control functions except the buttons for MONITOR and the POWER switch. Press the button again to release the lock.

13 **MONITOR INPUT/OUTPUT button and indicators ⑱**
Selects the signal output to the monitor: the signal currently input to the INPUT terminal or the signal currently output from the OUTPUT terminal.

14 **AUTO Y/C SEPARATE indicator ⑲**
Lights up when the output signal to the monitor is automatically transformed into the Y/C separated S video signal. When the output signal is originally an S video signal, the indicator does not light up.

15 **IN/OUT 4 S VIDEO/VIDEO/AUDIO jacks ⑯**
Function the same as the jacks 4 at the rear. They are useful for connecting equipment necessary for editing, such as an 8mm video camera recorder. Select the front or rear jacks by using the FRONT/REAR button.

1 **INPUT 1 (A/B/C), 2, 3, 4 S VIDEO/VIDEO/AUDIO jacks (4-pin mini DIN/phono jack)**

2 **PROCESSOR IN/OUT (processor input/output) S VIDEO/ VIDEO/AUDIO jacks (4-pin mini DIN/phono jack)**
Connect to AV processors.

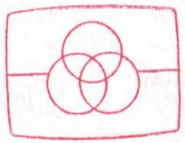
3 **OUTPUT 1 - 4 S VIDEO/VIDEO/AUDIO jacks (4-pin mini DIN/ phono jack)**

4 **MONITOR OUT EURO-AV connector (21-pin CENELEC), AUDIO jacks (phono jack)**

VIDEO/S VIDEO switch
Set to VIDEO when connecting a monitor without an S video terminal, and to S VIDEO for a monitor with an S video terminal.

Note
If only the S video signal is output when the VIDEO/S VIDEO switch is set to VIDEO, the picture will appear in black and white.

5 **AC power cord (mains lead)**

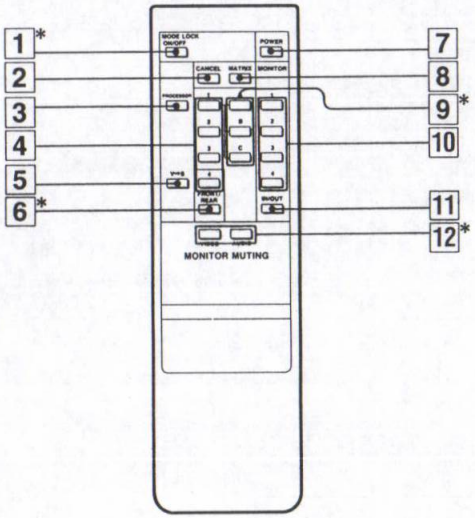


Function of the S VIDEO INPUT/OUTPUT jacks
A finer and clearer picture can be obtained in both recording and playback with the use of the S VIDEO jacks. The S VIDEO INPUT/OUTPUT jacks input and output the Y (luminance) and the C (color) signals of the video signal separately, which prevents them from interfering with one another, thereby improving picture quality. This unit incorporates a circuit which separates the Y and the C signals. The signal input from the video equipment without S video jacks can be transformed into the S video signal and output to video equipment with S video jacks. The signal output from the MONITOR OUT connector is automatically transformed into the S video signal.

Location and Function of Controls

Remote Commander

The functions of the * buttons are the same as those on the front panel. Refer to pages ⑱ and ⑲ for operation using other buttons on the Remote Commander.



1 *MODE LOCK ON/OFF button

2 CANCEL button
Press to cancel an operation in which two or more buttons of the Remote Commander are pressed in sequence.

3 PROCESSOR button

4 1-4 (jack number) buttons
Press to select the jack for input/output. Use these buttons together with the MATRIX button, the V → S button, or the PROCESSOR button on the Remote Commander.
For details, see page ㉔.

5 V → S (composite → S video transforming) button

6 *FRONT/REAR (jack 4 front/rear select) button

7 POWER button
Press to turn the unit on or off when the POWER switch on the main unit is set to ON.

8 MATRIX button
Press this button first when selecting the equipment for input/output.

9 *A-C (INPUT 1 select) button
Press to select the input source connected to INPUT 1 (A/B/C) jacks.

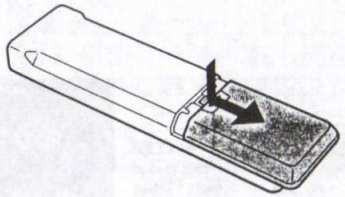
10 MONITOR 1-4 buttons

11 IN/OUT (monitor input/output select) button

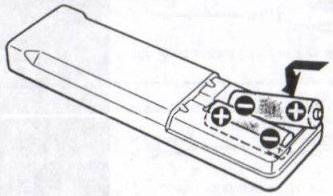
12 *MONITOR MUTING VIDEO/AUDIO button

Installing Batteries

1 Open the lid.



2 Install two size R6 (AA) batteries with the correct polarity, and close the lid.



- In normal operation, batteries will last up to half a year. If the unit does not operate properly, the batteries may be exhausted. Replace all of them with new ones.
- To avoid damage from possible battery leakage, remove the batteries when the Commander will not be used for a long time.

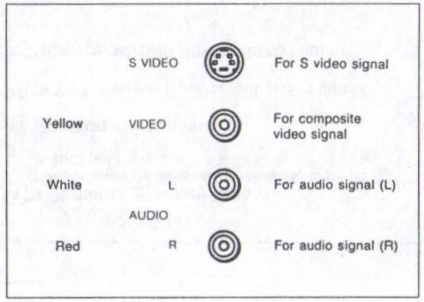
Before Connection

Precautions

- Before connection, be sure to turn off all equipment.
- Insert the plug fully. Loose connection may cause the noise.
- To disconnect the cord, pull it out by the plug. Never pull the cord itself.
- If noise occurs, leave enough space between each piece of equipment.
- Refer to the manual of the corresponding equipment for connection.

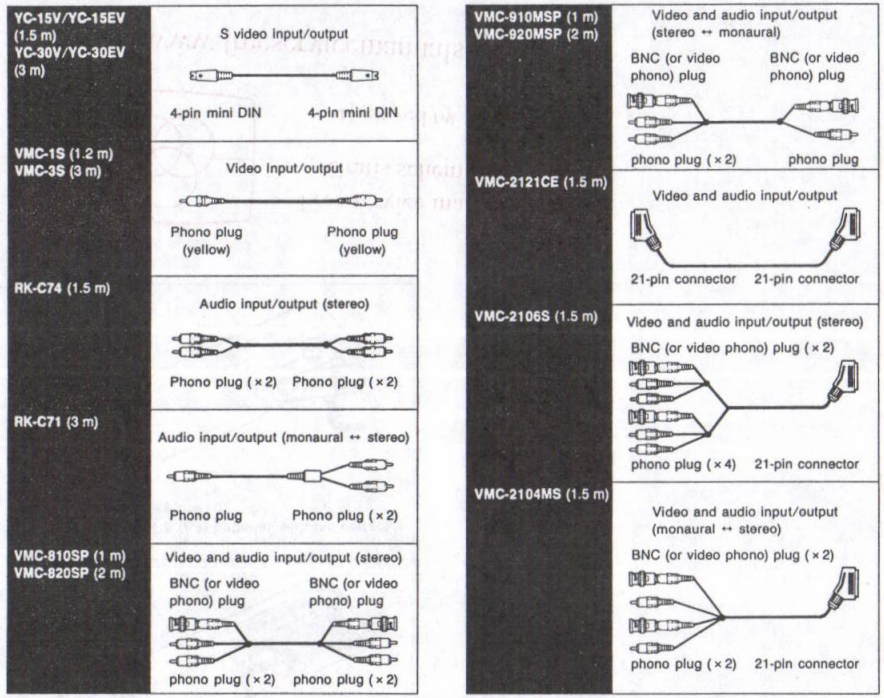
About the Input/Output Jacks

VIDEO and AUDIO jacks are distinguished by color. Connect the cord so that the color of each plug corresponds to that of the jacks on this unit and on the other equipment.



Recommended Connecting Cords

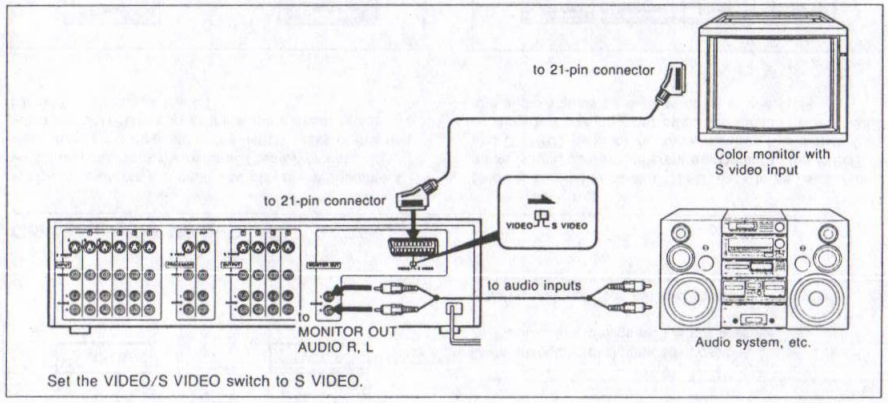
For connection, the use of following connecting cords (not supplied) is recommended.



Connecting a Color Monitor or a TV

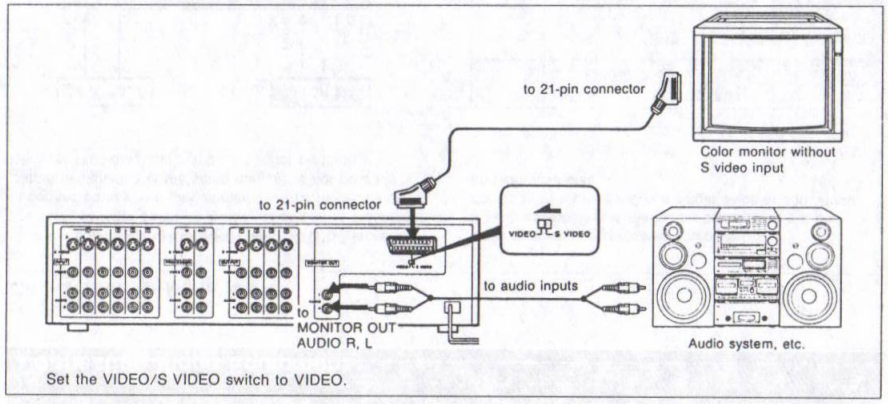
You will need a color monitor or TV with a video or an S video input terminal. This unit has two sets of AUDIO output jacks so that one of them can be connected to an audio system, etc., to record the sound or to listen to the sound through the audio system. The picture and sound output from MONITOR OUT can be muted with the MUTING button on the front panel or the Remote Commander.

Connecting a Color Monitor or a TV with an S Video Jack



Set the VIDEO/S VIDEO switch to S VIDEO.

Connecting a Color Monitor or a TV without an S Video Jack

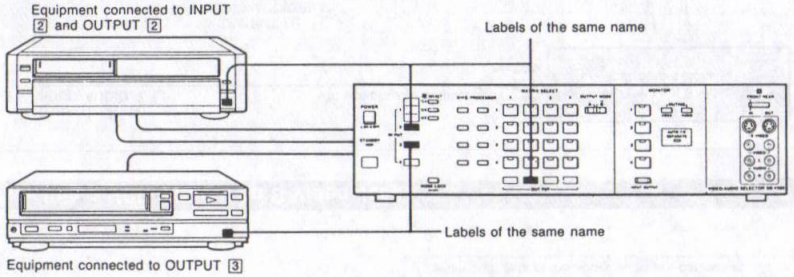


Set the VIDEO/S VIDEO switch to VIDEO.

Connecting Video Equipment

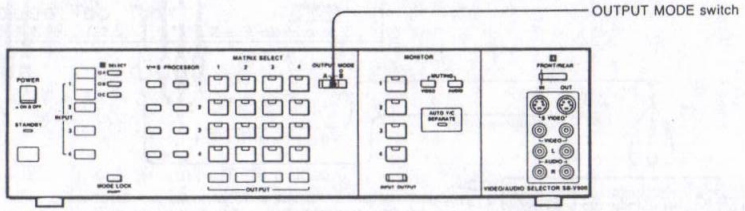
Using the Supplied Labels

After connecting all the equipment, affix the labels for INPUT/OUTPUT identification (supplied) on the front panel of the unit and the connected equipment so that you can easily see which jack corresponds to which equipment.



About Two Output Modes for Editing

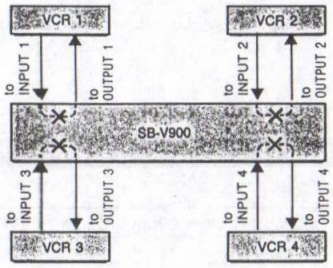
You can select one of the two output modes: A or B. How you connect equipment differs depending on the selected mode.
Select the output mode with the OUTPUT MODE switch.



Connecting Video Equipment

Connection for Mode A

Connect equipment to the INPUT and OUTPUT jacks of the same number so that it is easy to see what equipment is connected to which jack number. In this mode, input/output designation of the same number is not possible because recording and playback cannot be done simultaneously on the same equipment.
If such designation is made, the signal goes out and comes in in a cycle within a single piece of equipment and causes noise.



INPUT	OUTPUT 1	2	3	4
1	×	○	○	○
2	○	×	○	○
3	○	○	×	○
4	○	○	○	×

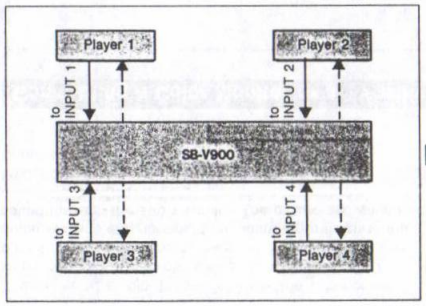
○ Input/output designation is possible.
× Input/output designation is not possible.

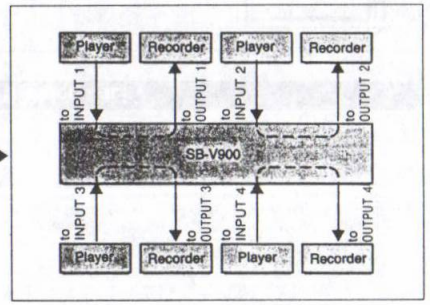
When the signal goes out and comes in in a cycle through several pieces of equipment, it also causes noise.

Connection for Mode B

A videodisc player and multi disc player are equipment which only playback the picture. These types of equipment are connected to the INPUT jacks of this unit, while the OUTPUT jacks of the same number remain blank. (- - → remains blank.)

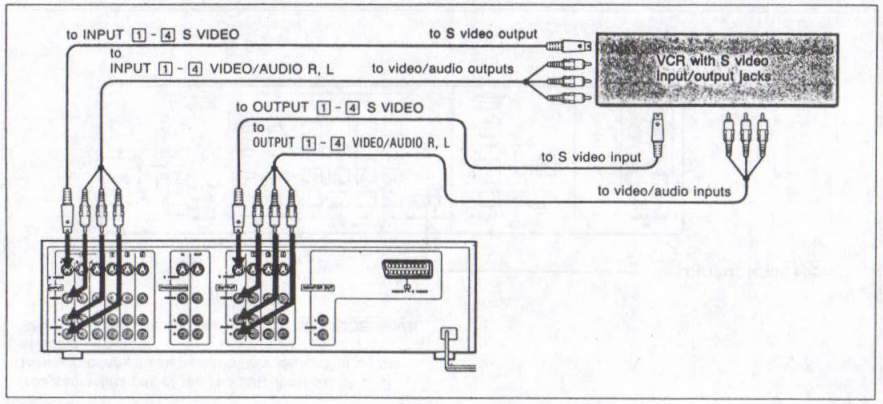
Mode B allows the blank OUTPUT jack to be used. For mode B use, connect different equipment to the INPUT and OUTPUT jacks of the same number. It is then possible to make an input/output designation where video and audio signals go out and come in in a cycle.





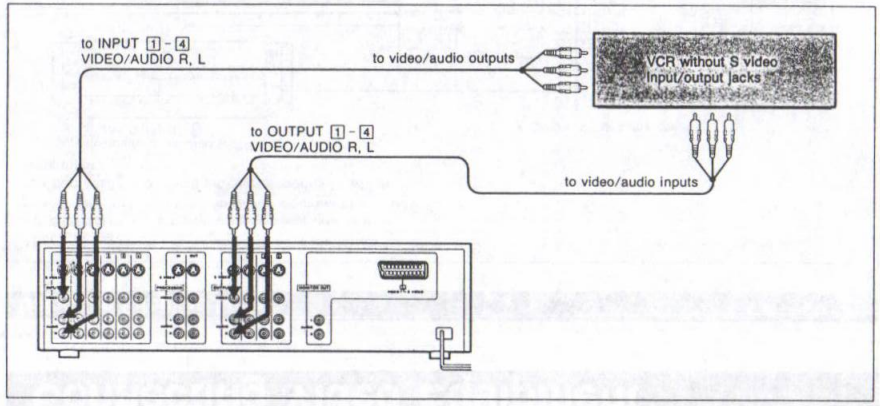
Mode B provides diversity and flexibility. When you connect equipment which does not have a recording function, mode B is convenient.

Connecting a VCR with an S Video Jack



Note
When connecting a VCR with an S video jack and another without an S video jack, connect both the S VIDEO and VIDEO jacks as shown in a diagram above. Editing between VCRs with and without an S video jack is possible only when both sets of the above jacks are connected.

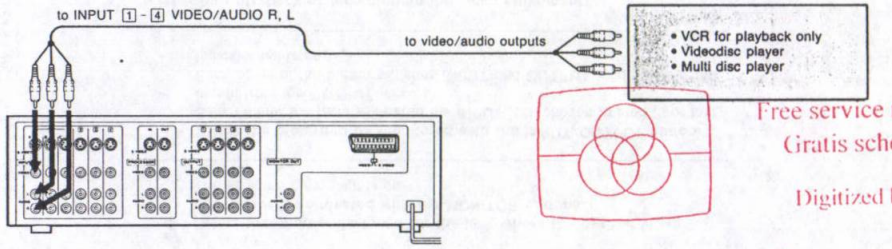
Connecting a VCR without an S Video Jack



Connecting Video Equipment

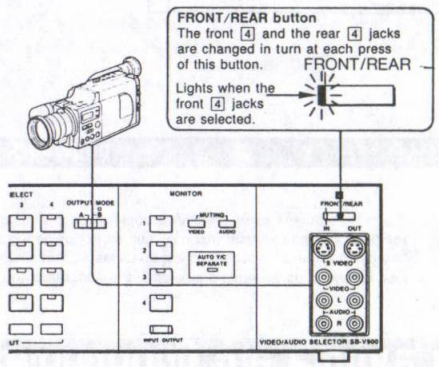
Connecting a Video Player

Video players, such as a VCR for playback only, a videodisc player, and a multi disc player do not have a picture recording function as other VCRs do.



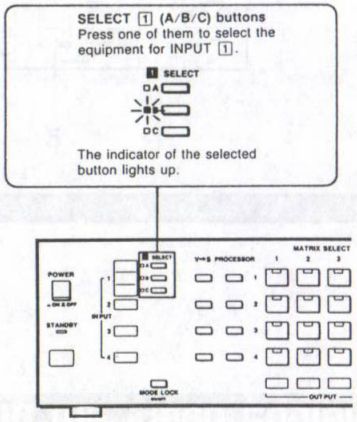
Using the INPUT/OUTPUT 4 Jacks on the Front Panel

You can select to use the INPUT/OUTPUT 4 jacks on the front or at the rear, whichever is convenient to connect the equipment. Select the jacks on the front or at the rear, using the FRONT/REAR button on the front panel.
OUTPUT 4 jacks both on the front and at the rear always output the same signal, so that two pieces of video equipment connected to the OUTPUT 4 jacks can be used for editing at the same time.



Using the INPUT 1 (A/B/C) Jacks

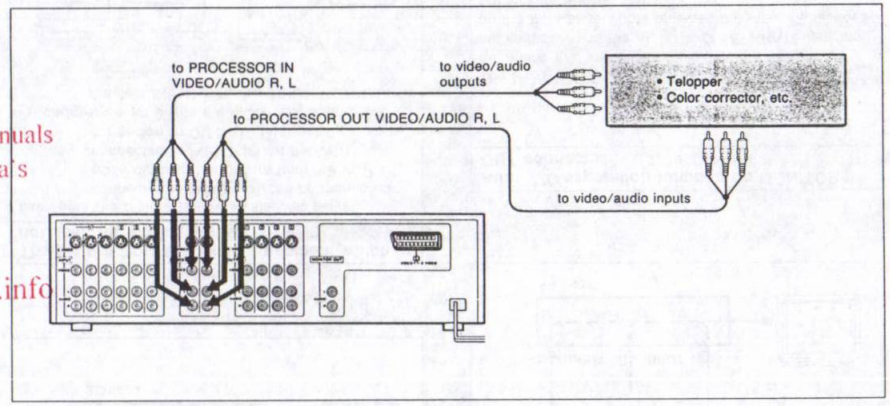
There are three input jacks A, B, C for INPUT 1.
Select one of them with the SELECT 1 (A/B/C) buttons on the front panel.



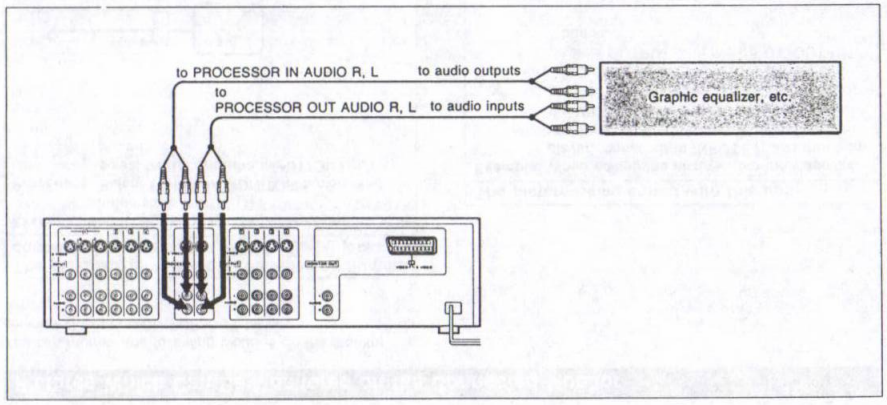
Connecting an AV Processor

AV processors are used to give special effects to the video image and to the sound.

Connecting an AV Processor that Adds Special Effects to the Picture



Connecting an AV Processor that Adds Special Effects to the Sound

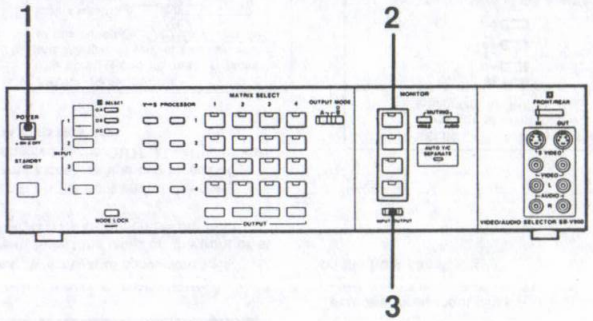


Using an AV processor with the S video jacks
Connect the S video jack of this unit and the AV processor, in addition to the connections shown in the above diagram.

Monitoring the Picture from the Video Equipment

You can monitor any desired picture which is played back or edited, by selecting the corresponding video equipment connected to this unit. You can also monitor the playback picture of other video equipment while editing.

Operation



1 **Turn on the power of the monitor, this unit, and the desired video equipment.**

2 **Select the number assigned for the jack where the desired video equipment is connected with the MONITOR buttons.**
The selected button lights up.

3 **Select the picture to be monitored with the INPUT/OUTPUT button.**
Select either the picture input to the INPUT jack chosen in step 2, or that output from the OUTPUT jacks.
Each press of the button switches INPUT and OUTPUT, and the selected indicator lights up.

4 **Start playback or recording on the video equipment.**

When using an AV processor
To monitor the picture being edited with an AV processor, press the INPUT/OUTPUT button to designate OUTPUT to select the output jacks for the recording VCR. Or, to monitor the input signal, press the INPUT/OUTPUT button to designate the input jacks.

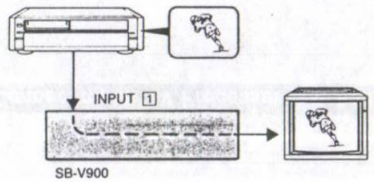
To mute the picture or sound
Press the MUTING VIDEO or AUDIO. Press again to restore the picture or the sound.

Pictures Which Can Be Monitored on the Connected Monitor

You can monitor the following pictures on the monitor connected to the MONITOR OUT jacks.

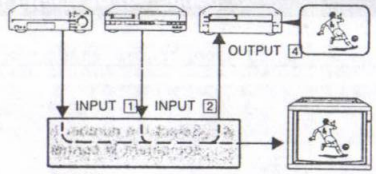
The playback picture from the video equipment connected to one of the INPUT 1 - 4 jacks

Example: Monitoring the playback picture from the VCR connected to INPUT 1
Procedure: Select 1 with the MONITOR button, and select INPUT with the INPUT/OUTPUT button.



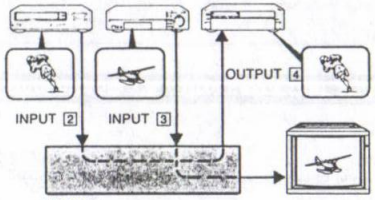
The picture being edited with this unit

Example: When editing the picture from the videodisc player connected to INPUT 1 and that from the 8 mm VCR connected to INPUT 2 on the VCR connected to OUTPUT 4, the picture being recorded can be monitored.
Procedure: Select 4 with the MONITOR button, and select OUTPUT with the INPUT/OUTPUT button.



The picture from the video equipment which is not used for editing

Example: The picture from the videodisc player connected to INPUT 3 can be monitored while dubbing the picture from the VCR connected to INPUT 2 on the VCR connected to OUTPUT 4.
Procedure: Select 3 with the MONITOR button, and select INPUT with the INPUT/OUTPUT button.

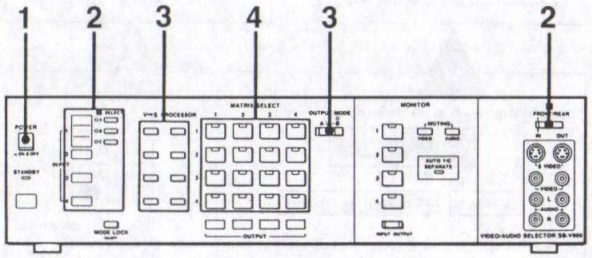


Auto Y/C separation function on MONITOR OUT connector

The MONITOR OUT connector is equipped with an automatic Y/C separate circuit. The circuit turns on automatically and the AUTO Y/C SEPARATE indicator on the front panel lights up when the input signal does not include S video signal.
If the input signal includes S video signal, the indicator does not light up.
If a monitor with S video input is connected to MONITOR OUT, the picture can be viewed on S video signal.

Editing

This unit is equipped with 8 input and 7 output jacks, which allows editing with several pieces of video equipment at the same time.
Make the input/output designation with MATRIX SELECT buttons.



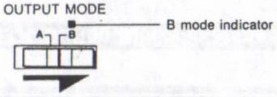
1 **Turn on the power of this unit, the desired video equipment, and the monitor.**

2 **Select the number for the jacks where the playback (input) equipment is connected.**

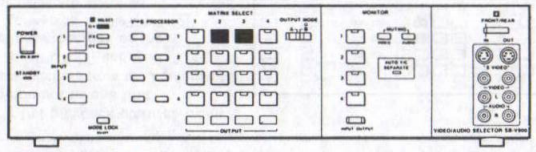
> **Note**
> When the selected number is 1 or 4, be sure that the following setting is made.
> INPUT 1: Select the desired equipment with the SELECT 1 (A/B/C) buttons.
> INPUT 4: Select the desired equipment with the FRONT/REAR button.

3 **Make the following settings if necessary.**

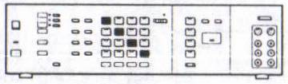
- Transforming the composite video signal into the S video signal
  — Press the V → S buttons which corresponds to the desired input number.
- Adding special effects to the picture or sound with the AV processor
  — Press the PROCESSOR buttons which corresponds to the desired input number.
- Editing with equipment connected to the INPUT and OUTPUT jacks of the same number
  — Set the OUTPUT MODE switch to B.



4 **Select the output equipment and press the MATRIX SELECT button where the input and output number columns cross.**
Example: Input from INPUT 1 (A) and output to OUTPUT 2 and 3.



Press the shaded buttons.

> **If the MATRIX SELECT button blinks**
> Check if the output mode A, B is set correctly, or if the signal goes out and comes in in a cycle (see next page for detail).
>
> 
>
> The shaded buttons do not function in mode A.

5 **Repeat steps 1-4 to designate other input/output, if necessary.**

6 **Start playback or recording on the video equipment.**

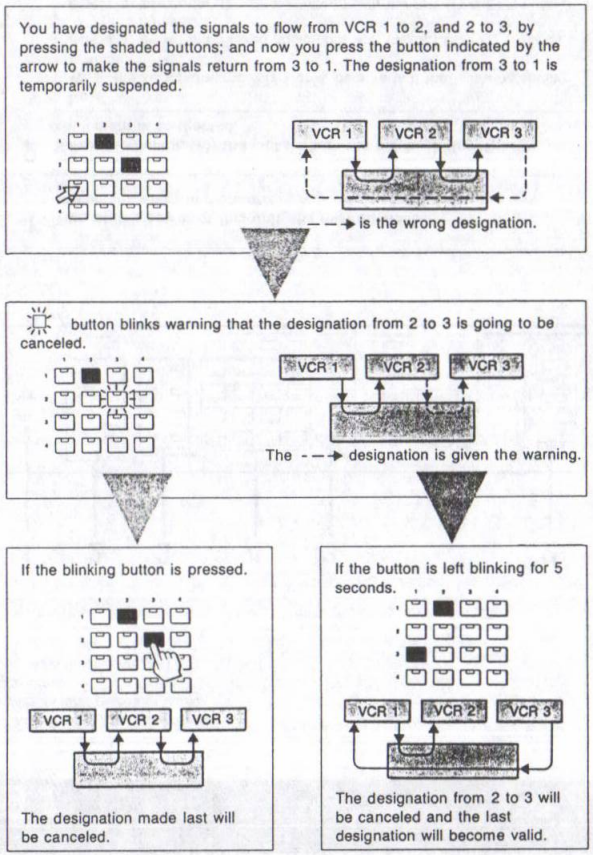
> **Note on V → S button**
> Press the V → S button to transform the input composite video signal into the S video signal when output. Note that this unit has one Y/C separate circuit for S video transformation, so that only one of the input signals can be transformed at a time.
>
> **To watch the picture being edited on the monitor**
> Select the desired picture with the MONITOR 1-4 and INPUT/OUTPUT buttons.
> INPUT - The picture being played back.
> OUTPUT - The picture being recorded.
>
> **Note on B mode indicator**
> Lights up: when the OUTPUT MODE switch is set to B, and the input/output designation of the same jack number has been made.
> Blinks: when you set the OUTPUT MODE switch to A and start operation with the same jack number for the input/output setting. In this case, set the OUTPUT MODE switch to B to cancel the input/output setting, then set the OUTPUT MODE switch to A again to start operation.

If the MATRIX SELECT Button Blinks in Mode A

When the signals go out and come in in a cycle (e.g. 1 → 2, 2 → 3, 3 → 1), it causes noise. With this unit, the MATRIX SELECT button blinks to give warning if such designation is made. The MATRIX SELECT button last pressed will not light up, but one of the buttons already lit will blink for about 5 seconds. To cancel the button last pressed, press the blinking button so that it stops blinking and lights up again.

If the blinking button is not pressed within 5 seconds, the input/output designated with the blinking button will be canceled, and the button last pressed will become valid and light up instead.

Example of wrong input/output designation in mode A

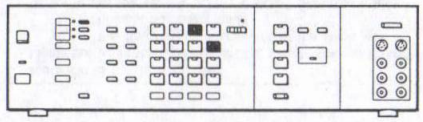


Examples of Editing

1 Recording the playback pictures from two video units to two other pieces of equipment at the same time

Example: The playback pictures from the equipment connected to INPUT 1 (A) and 2 are recorded on the equipment connected to OUTPUT 3 and 4 respectively at the same time.

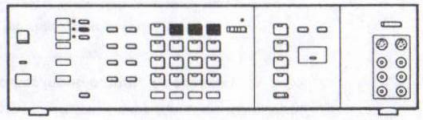
Press the shaded buttons.



2 Recording the playback picture from one video unit to other equipment

Example: The playback picture from the equipment connected to INPUT 1 (B) is recorded on the equipment connected to OUTPUT 2, 3, and 4.

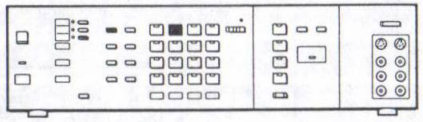
Press the shaded buttons.



3 Editing with the input composite signal transformed to S video signal

Example: The input composite signal from the equipment connected to INPUT 1 (C) is transformed to S video signal and output to the equipment connected to OUTPUT 2.

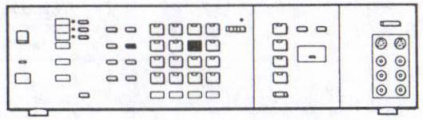
Press the shaded buttons.



4 Editing while adding special effects with an AV processor

Example: The playback picture from the equipment connected to INPUT 2 with special effects added by the color corrector is recorded on the equipment connected to OUTPUT 3.

Press the shaded buttons.

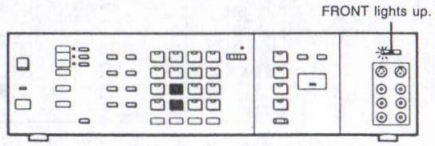


5 Editing and recording the playback pictures from several pieces of equipment to one unit

Example: The playback pictures from the equipment connected to INPUT 3 and INPUT 4 (on the front) are recorded on the equipment connected to OUTPUT 2 while the pictures are switched.

Press the shaded buttons.

Select FRONT with the FRONT/REAR button.



To prevent accidental operation during editing or dubbing

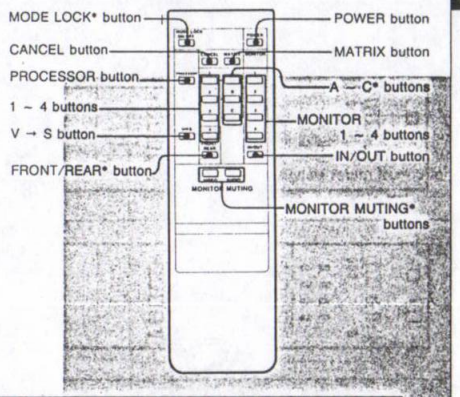
After inputs and outputs are designated for all the equipment, press the MODE LOCK button on the front panel to light it up (ON) before starting editing or dubbing. When the MODE LOCK button is set to ON, no buttons function except the buttons for MONITOR and the POWER switch even if they are accidentally pressed.

To record the signals input from two different sources alternately

When the input signal is switched to an other one, set the recording video equipment in the pause mode. Otherwise, the picture may be distorted at the point where the inputs were switched.

Using the Remote Commander

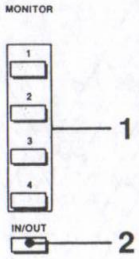
The unit can be remotely controlled using the supplied Remote Commander. In the operation with the Remote Commander, buttons and indicators on the main unit light up just as they are operated on the main unit. The operating procedure using the Remote Commander, however, slightly differs from that followed on the main unit. The operating procedure of the * buttons are the same as that of the main unit.



Monitoring the Picture From the Video Equipment

1 **Press one of the 1-4 buttons to designate the jack to be monitored.**

2 **Press the IN/OUT button to select the picture to be monitored: the picture input from the INPUT jacks or that output to the OUTPUT jacks.**



Designating Input/Output Equipment

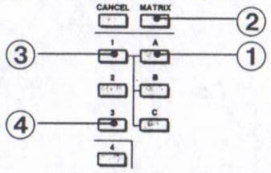
1 **Press the MATRIX button.**

2 **Press one of the 1-4 buttons to designate the number for the input jack where the input equipment (the equipment for playback) is connected.**

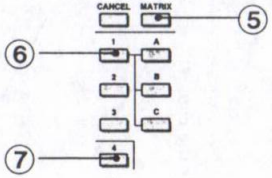
3 **Press one of the 1-4 buttons to designate the number for the output jack where the output equipment (the equipment for recording) is connected.**

Example: To input from INPUT 1 (A) and output to OUTPUT 3 and 4, press the buttons in the following order.

From INPUT 1 (A) to OUTPUT 3

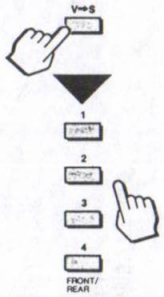


From INPUT 1 ("A" is designated in the above procedure) to OUTPUT 4

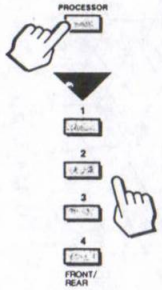


Making a Special Setting for the Input Equipment

Transforming the composite video signal into the S video signal



Adding special effects with the AV processor



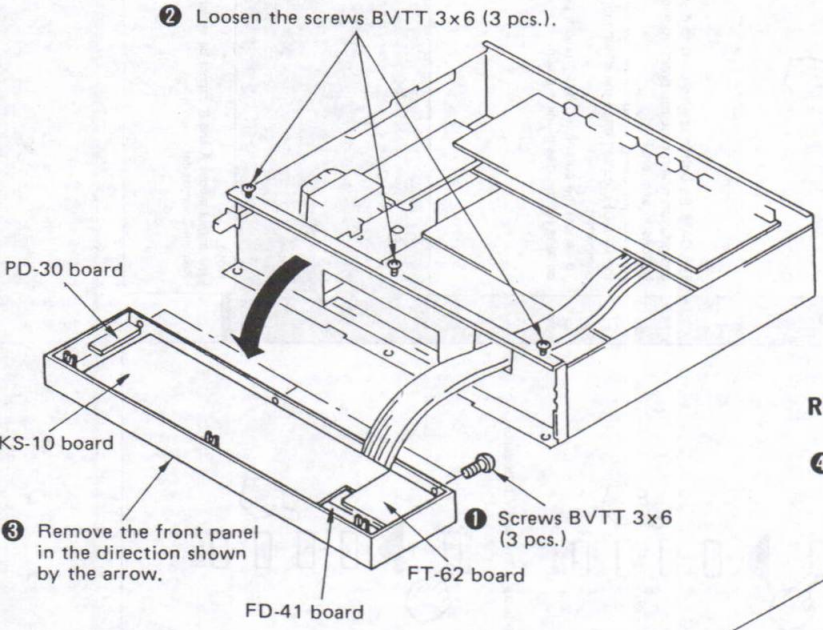
Canceling the Last Pressed Button on the Remote Commander

The CANCEL button is also used to discontinue a designation which requires pressing two or more buttons in sequence.
Note that the designation cannot be canceled with the CANCEL button once the designation is completed.
To cancel the completed designation, press the buttons for the designation again.

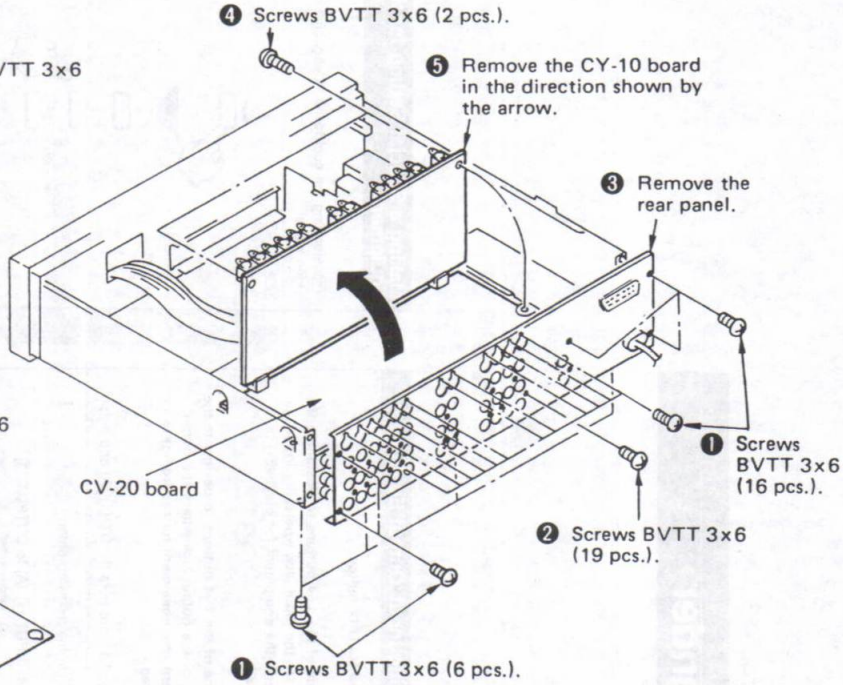
Note
The output modes A and B cannot be switched with the Remote Commander.

SECTION 2
DISASSEMBLY

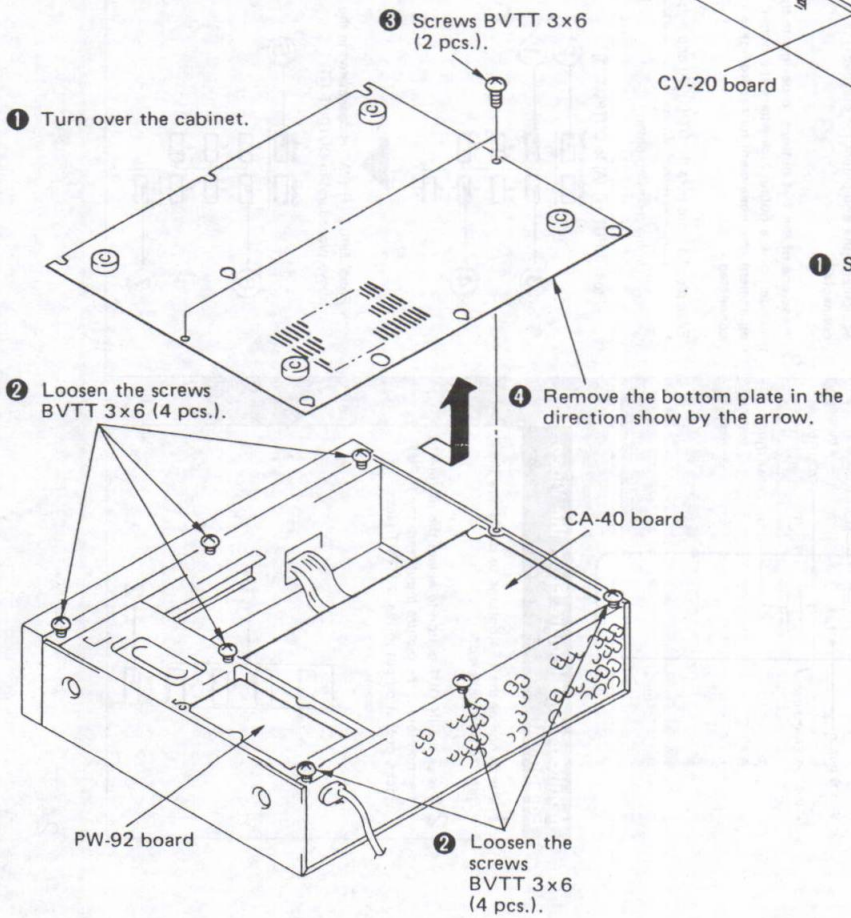
REMOVAL OF THE FRONT PANEL



REMOVAL OF THE CY-10 BOARD

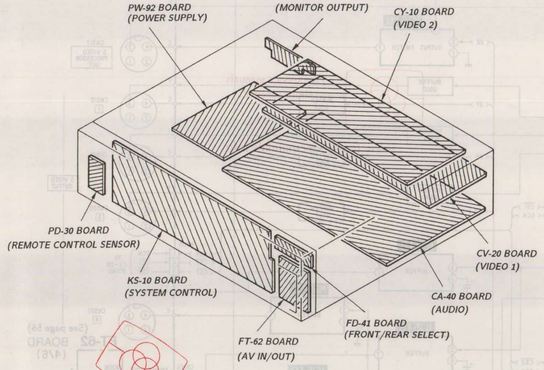


REMOVAL OF THE BOTTOM PLATE

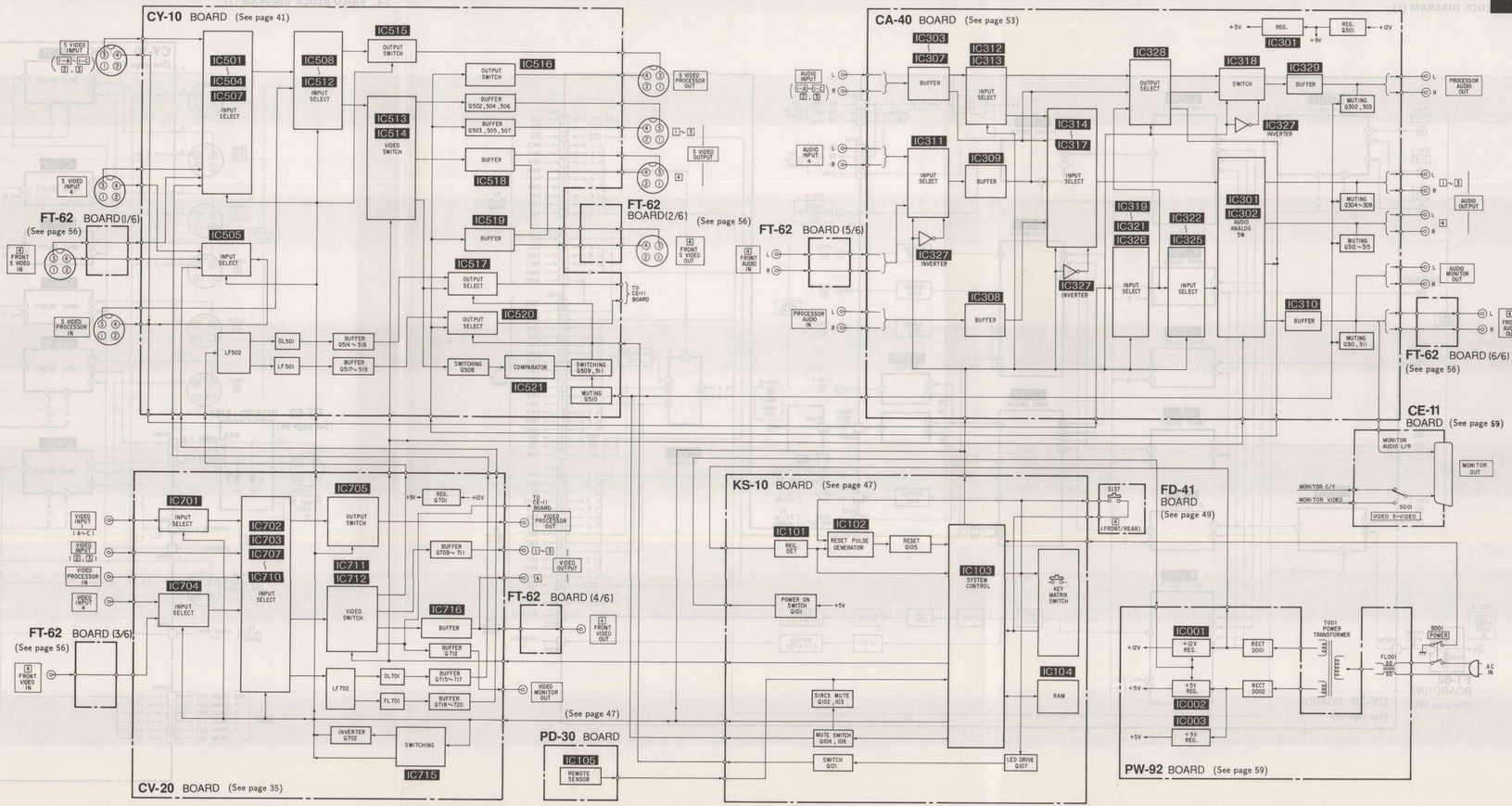


SECTION 3
DIAGRAMS

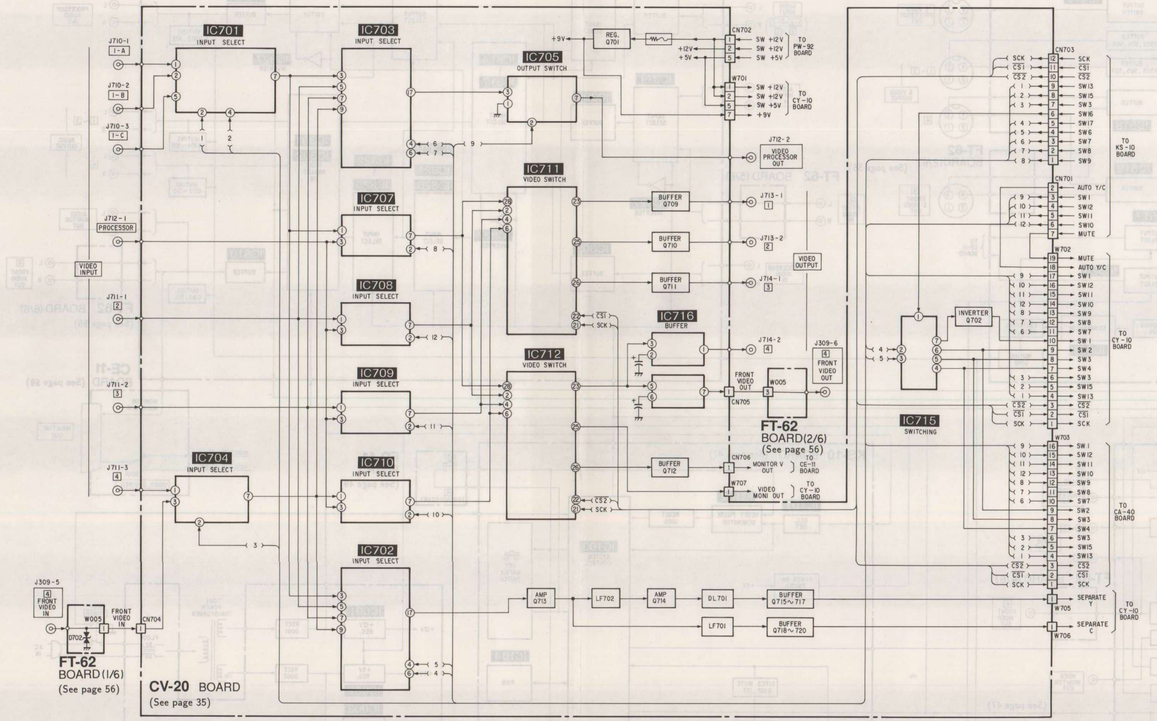
CIRCUIT BOARDS LOCATION



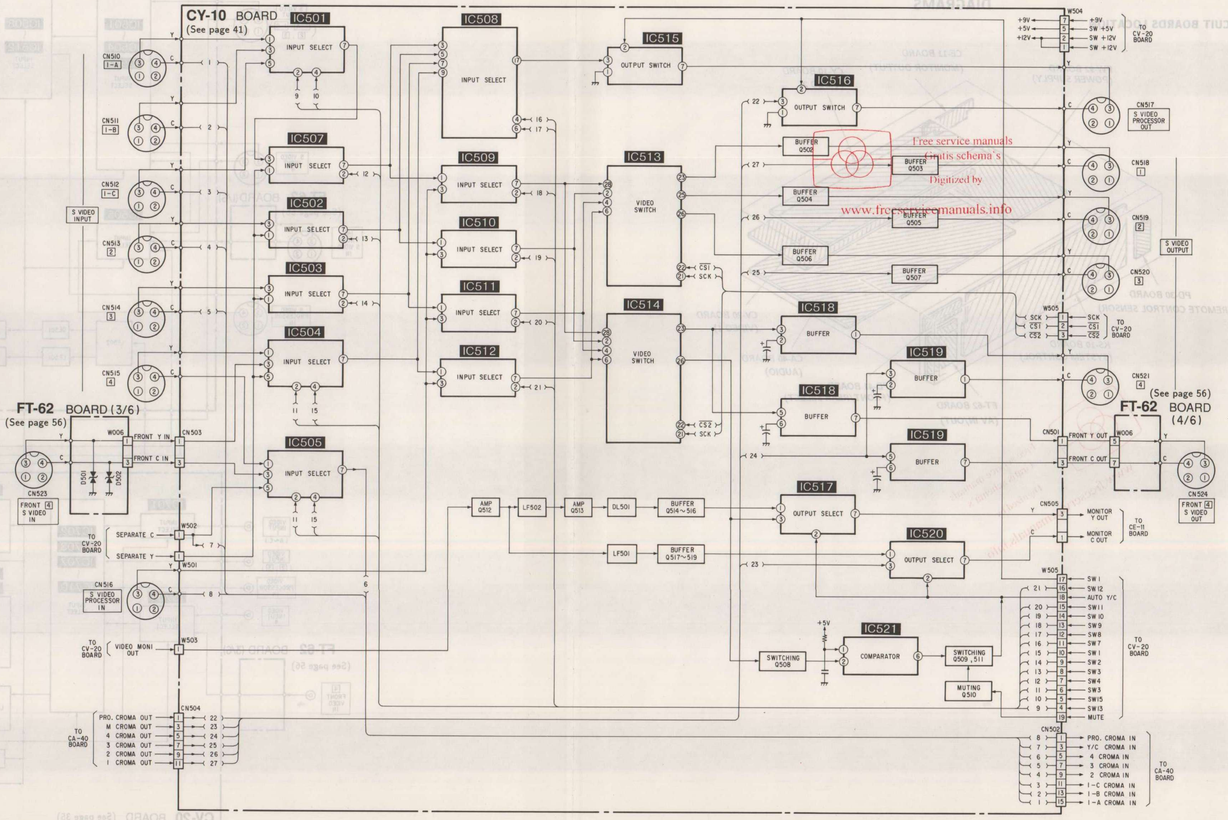
3-2. OVERALL BLOCK DIAGRAM



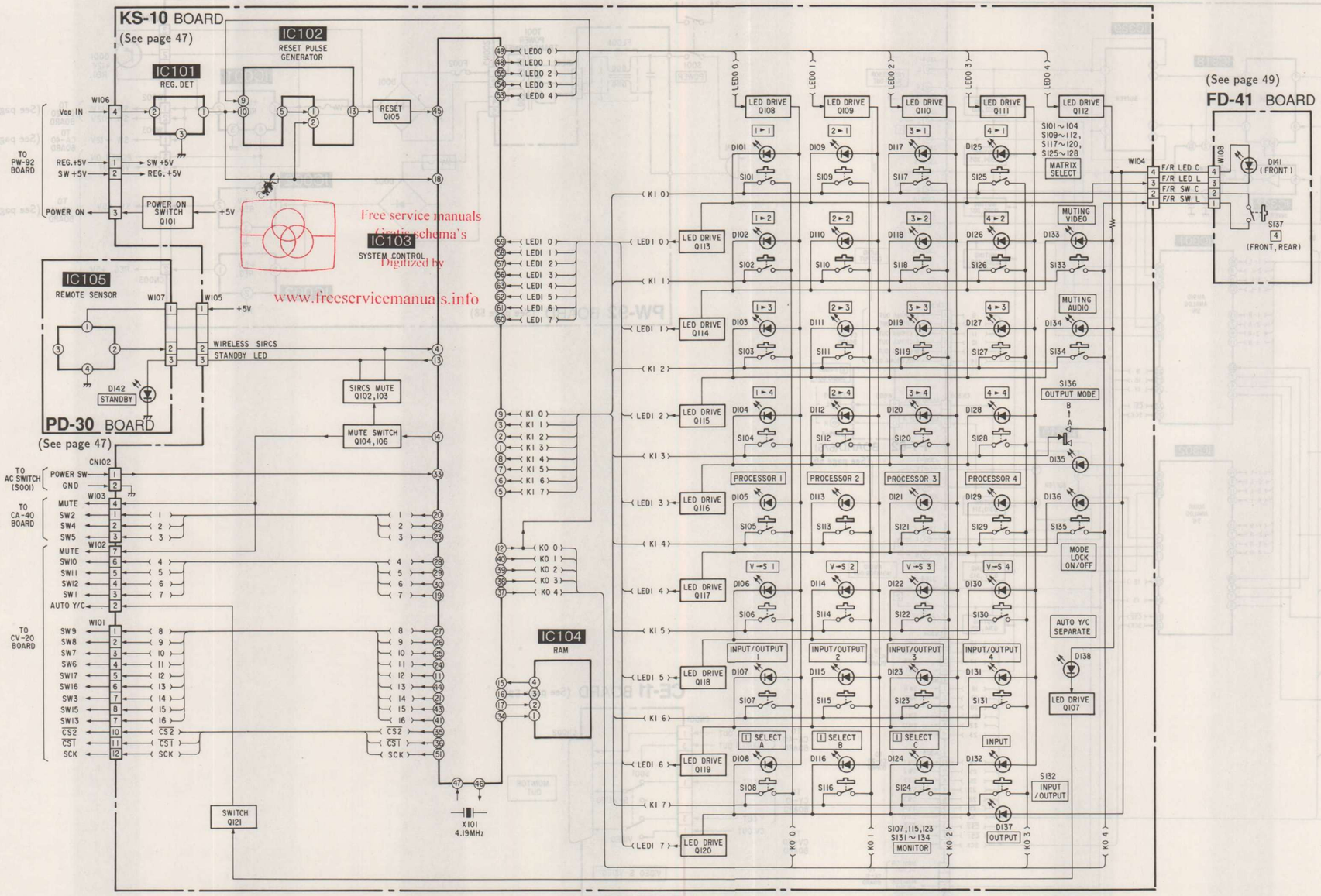
3-3. VIDEO BLOCK DIAGRAM (1)



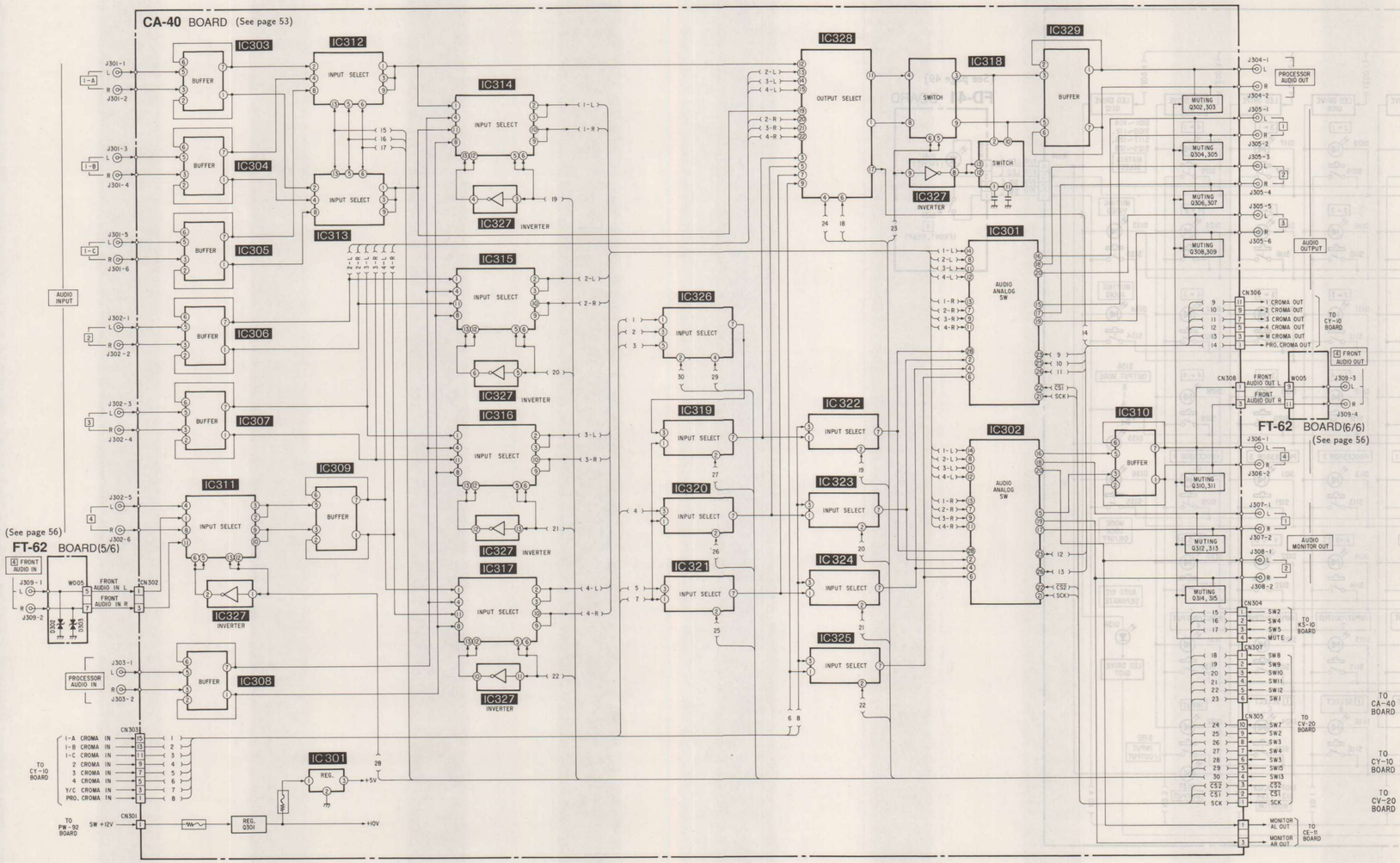
3-4. VIDEO BLOCK DIAGRAM (2)



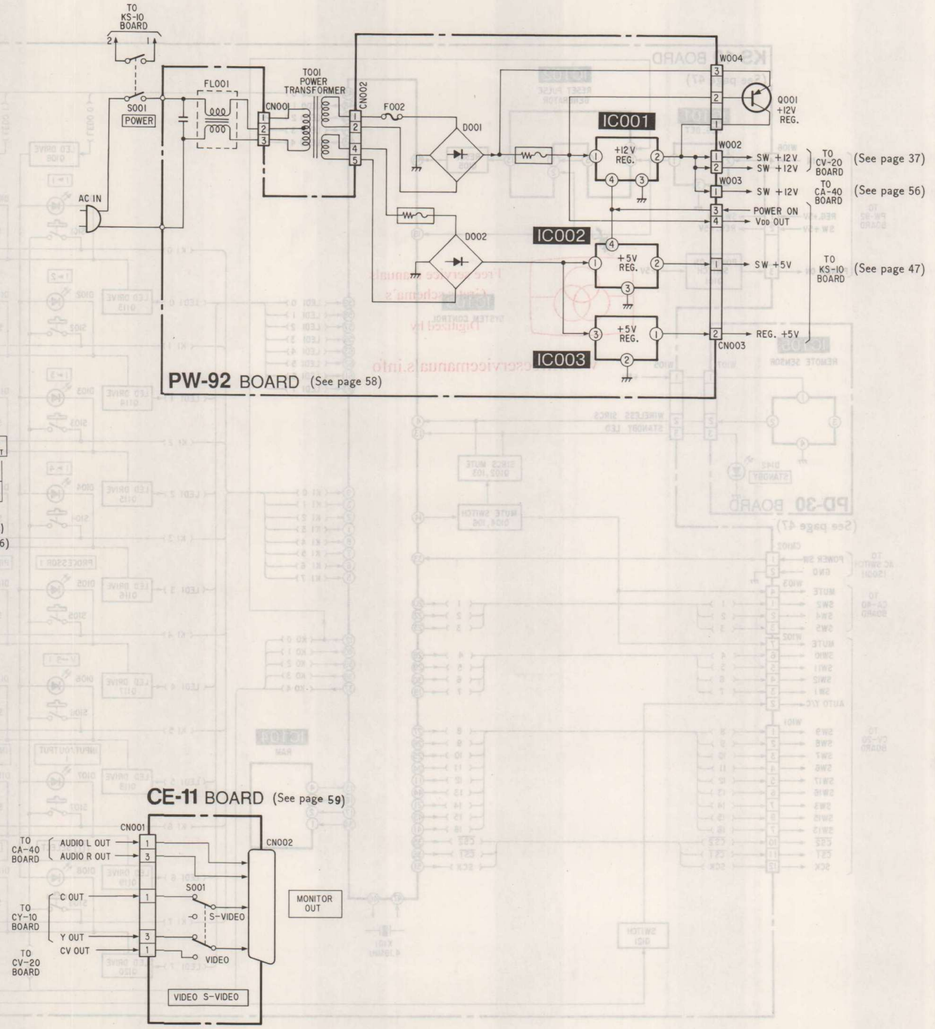
3-5. SYSTEM CONTROL BLOCK DIAGRAM



3-6. AUDIO BLOCK DIAGRAM

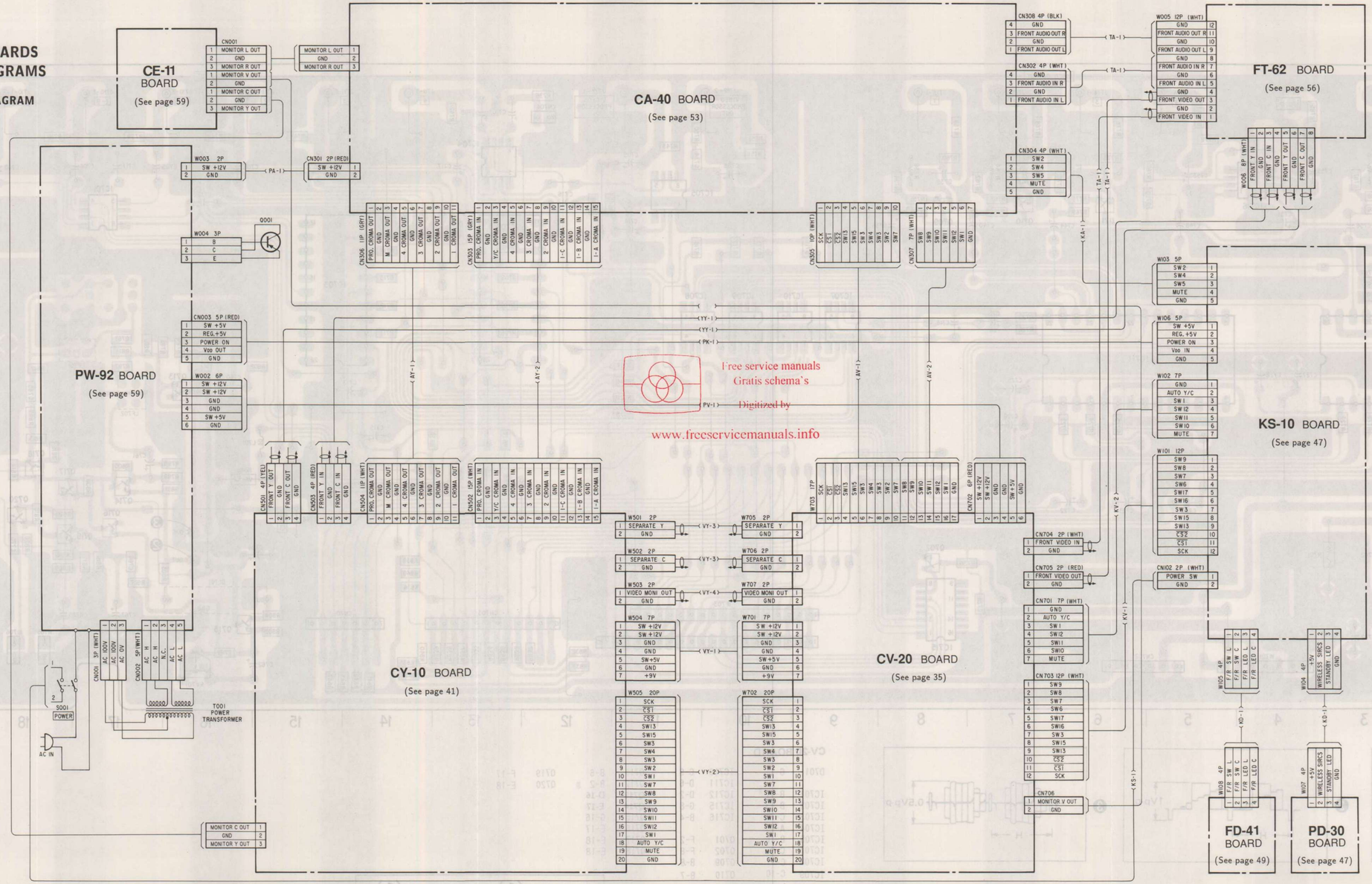


3-7. POWER BLOCK DIAGRAM



SECTION 4
PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

4-1. FRAME SCHEMATIC DIAGRAM



4-2. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

For printed wiring boards:

- ▒ : Pattern from the side which enables seeing.

For schematic diagram:

- All resistors are in ohms and ¼W or less unless otherwise specified. kΩ: 1,000Ω, MΩ: 1,000kΩ.
- All capacitors are in μF unless otherwise noted. pF: μμF. 50V or less are not indicated except for electrolytics and tantalums.
- ⊸∿⊸ : fusible resistor.
- ▭ : panel designation.
- ▬ : B+ line.
- no mark: STOP.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Voltages are dc between measurement points and ground unless otherwise noted.
- Readings are taken with a color-bar signal (video signal) input to VIDEO INPUT 1-A.
- Readings are taken with a digital multimeter (DC10MΩ).
- Voltage variations may be noted due to normal production tolerances.
- ⇨ : IN/OUT direction of B line.
- Readings are taken with color-bar signal playback.
- Circled numbers refer to waveforms.
- Switch position

  1 SELECT A
  MATRIX SELECT 1 ► 1
  MATRIX SELECT 2 ► 2
  MATRIX SELECT 3 ► 3
  MATRIX SELECT 4 ► 4
  MONITOR INPUT 1

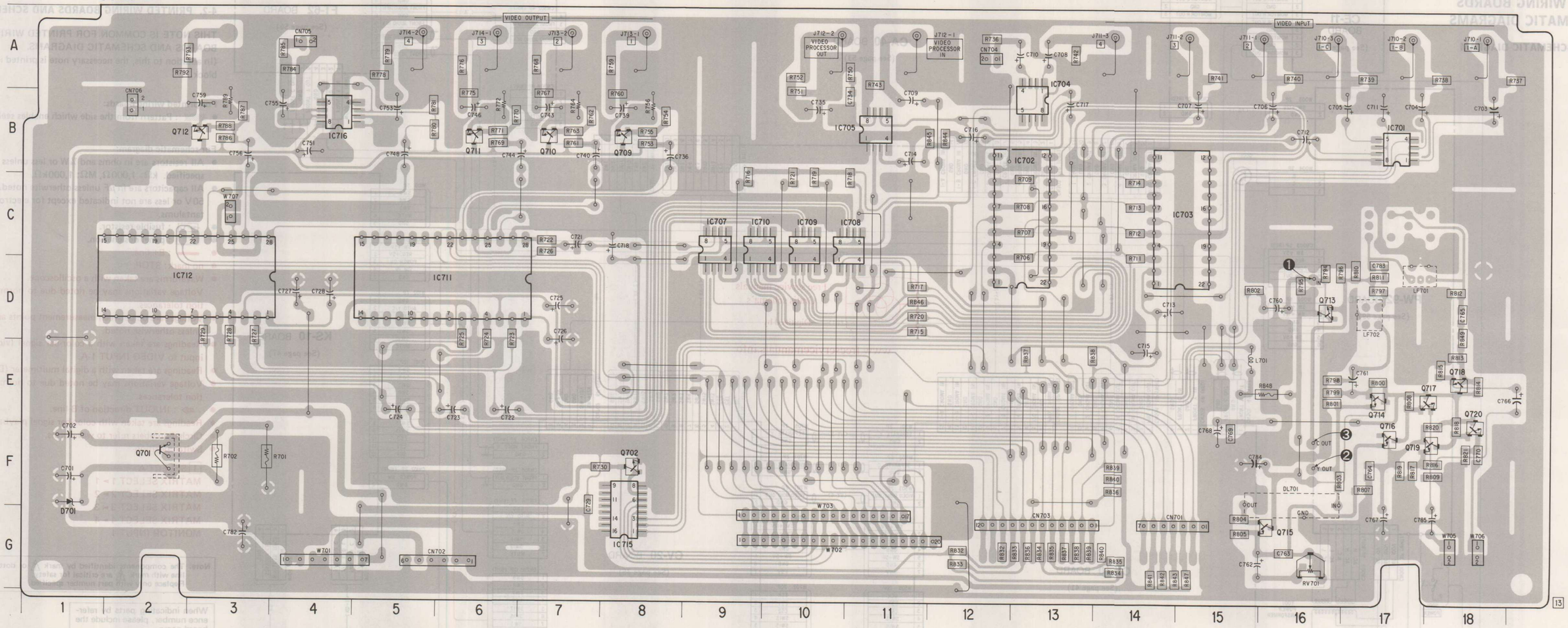
Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

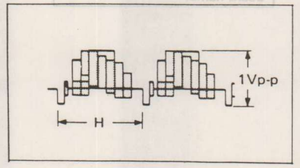
When indicating parts by reference number, please include the board name.

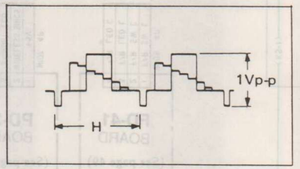
CV-20 (VIDEO(1)) PRINTED WIRING BOARD

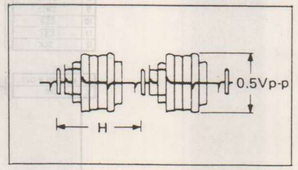
— Ref. No. CV-20 BOARD: 1,000 Series —

CV-20 BOARD







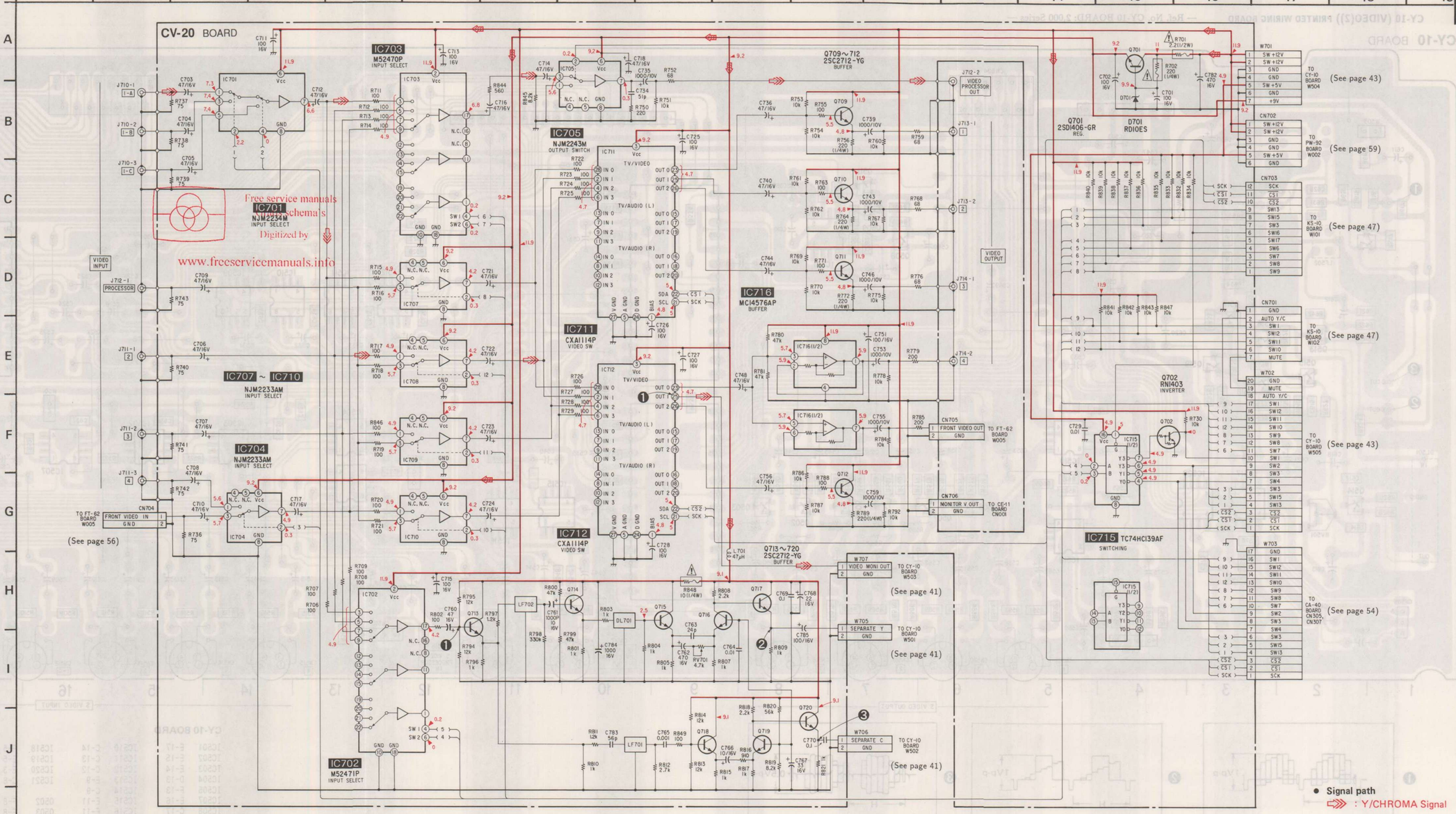


CV-20 BOARD

D701	G-1	IC710	C-9	Q711	B-6	Q719	F-17
		IC711	D-6	Q712	B-2	Q720	E-18
IC701	B-17	IC712	D-2	**Q713**	**D-16**		
IC702	B-13	IC715	G-8	**Q714**	**E-17**		
IC703	C-14	IC716	B-4	Q715	G-16		
IC704	A-13			Q716	E-17		
IC705	B-10	Q701	F-2	Q717	E-18		
IC707	C-9	Q702	F-8	Q718	E-18		
IC708	C-11	Q709	B-8				
IC709	C-10	Q710	B-7				

CV-20 (VIDEO(1)) SCHEMATIC DIAGRAM

— Ref. No. CV-20 BOARD: 1,000 Series —

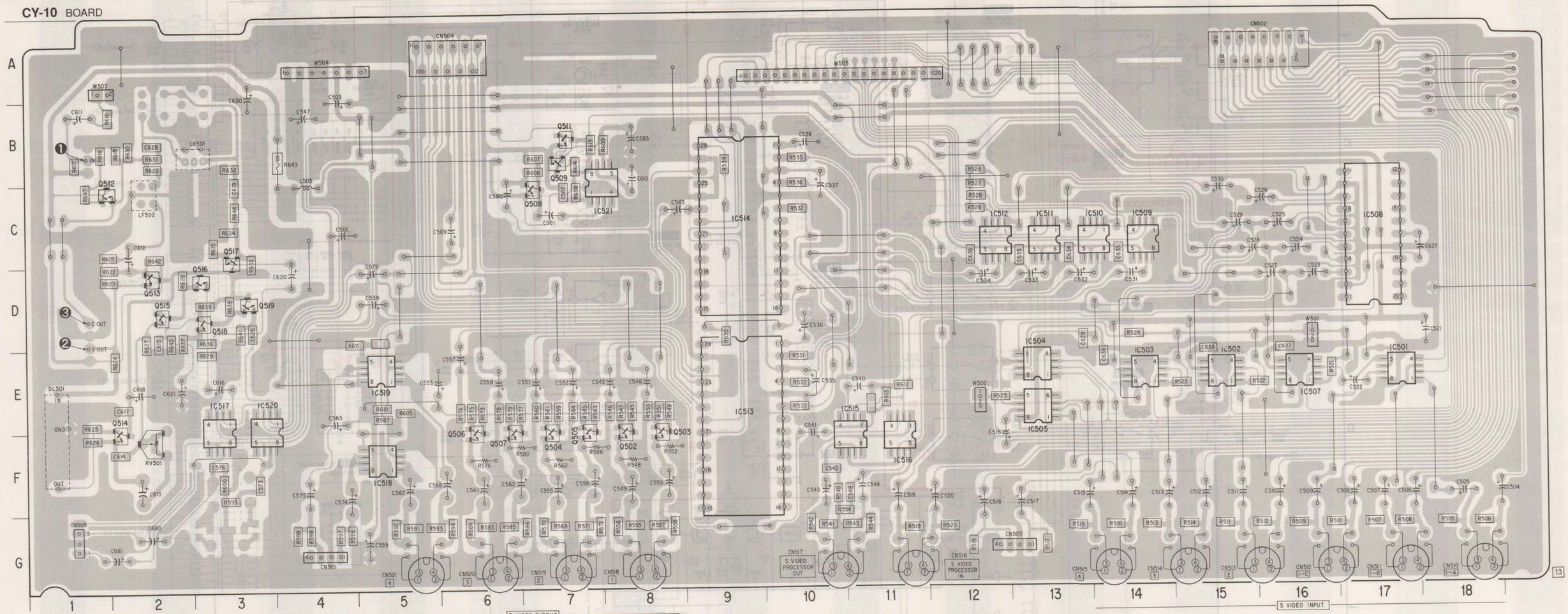


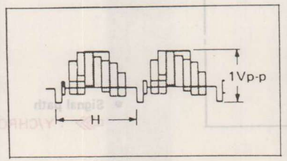
● Signal path
⇒ : Y/CHROMA Signal

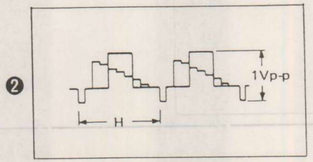
CY-10 (VIDEO(2)) PRINTED WIRING BOARD

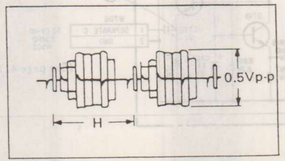
— Ref. No. CY-10 BOARD: 2,000 Series —

CY-10 BOARD







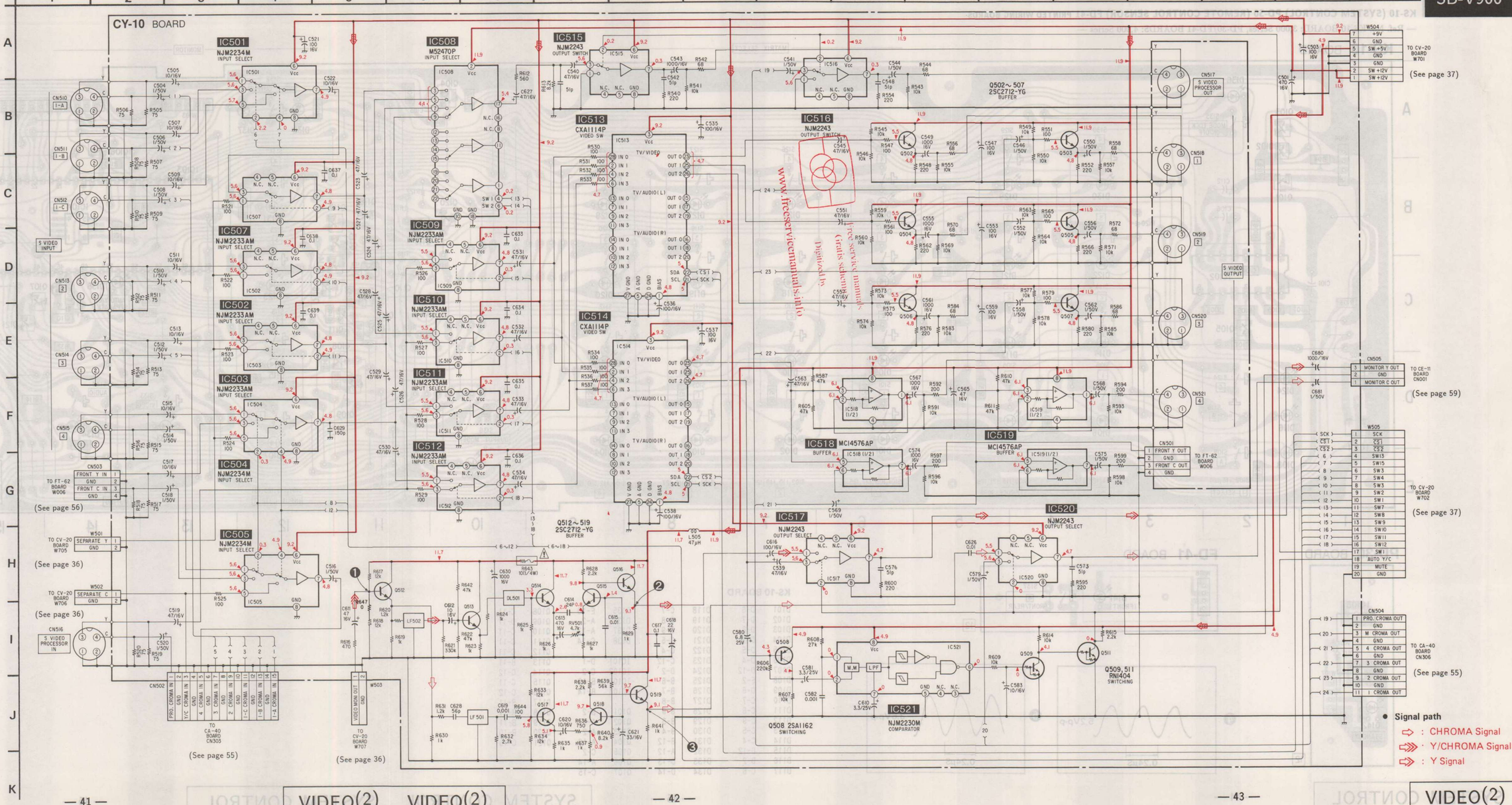


CY-10 BOARD

IC501	E-17	IC510	C-14	IC518	F-5	Q505	F-7	Q513	D-2
IC502	E-15	IC511	C-13	IC519	E-5	Q506	F-6	Q514	E-2
IC503	E-14	IC512	C-12	IC520	E-3	Q507	F-6	Q515	D-2
IC504	D-13	IC513	E-9	IC521	C-8	Q508	C-7	Q516	C-3
IC505	F-13	IC514	C-9			Q509	B-7	Q517	C-3
IC507	E-16	IC515	E-11	Q502	F-8	Q510	B-7	Q518	D-3
IC508	C-17	IC516	F-11	Q503	F-8	Q511	B-7	Q519	D-3
IC509	C-14	IC517	E-3	Q504	F-7	Q512	C-1		

CY-10 (VIDEO(2)) SCHEMATIC DIAGRAM

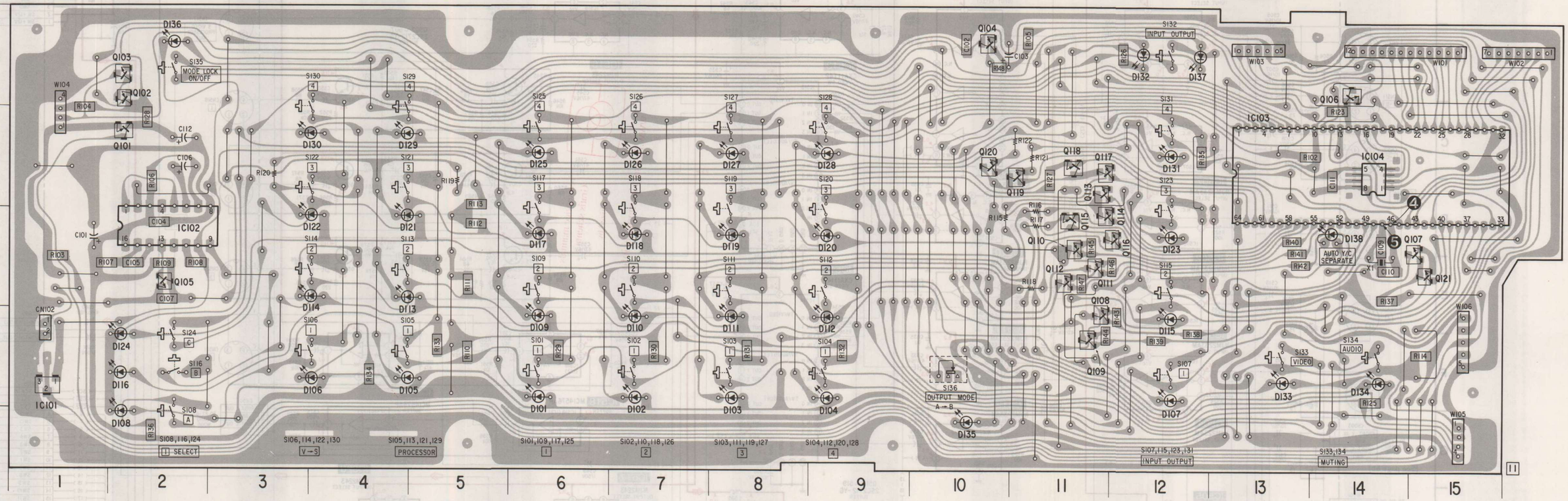
— Ref. No. CY-10 BOARD: 2,000 Series —



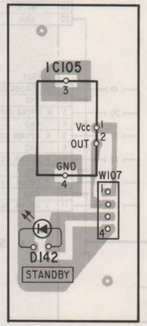
KS-10 (SYSTEM CONTROL) PD-30 (REMOTE CONTROL SENSOR) FD-41 PRINTED WIRING BOARDS

— Ref. No. KS-10 BOARD: 3,000 Series, PD-30/FD-41 BOARDS: 4,000 Series —

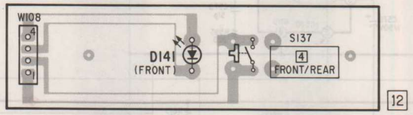
KS-10 BOARD

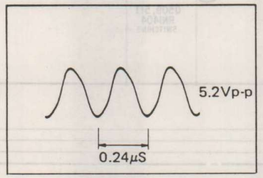


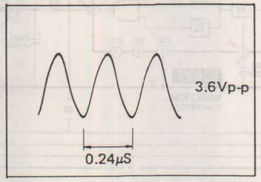
PD-30 BOARD



FD-41 BOARD



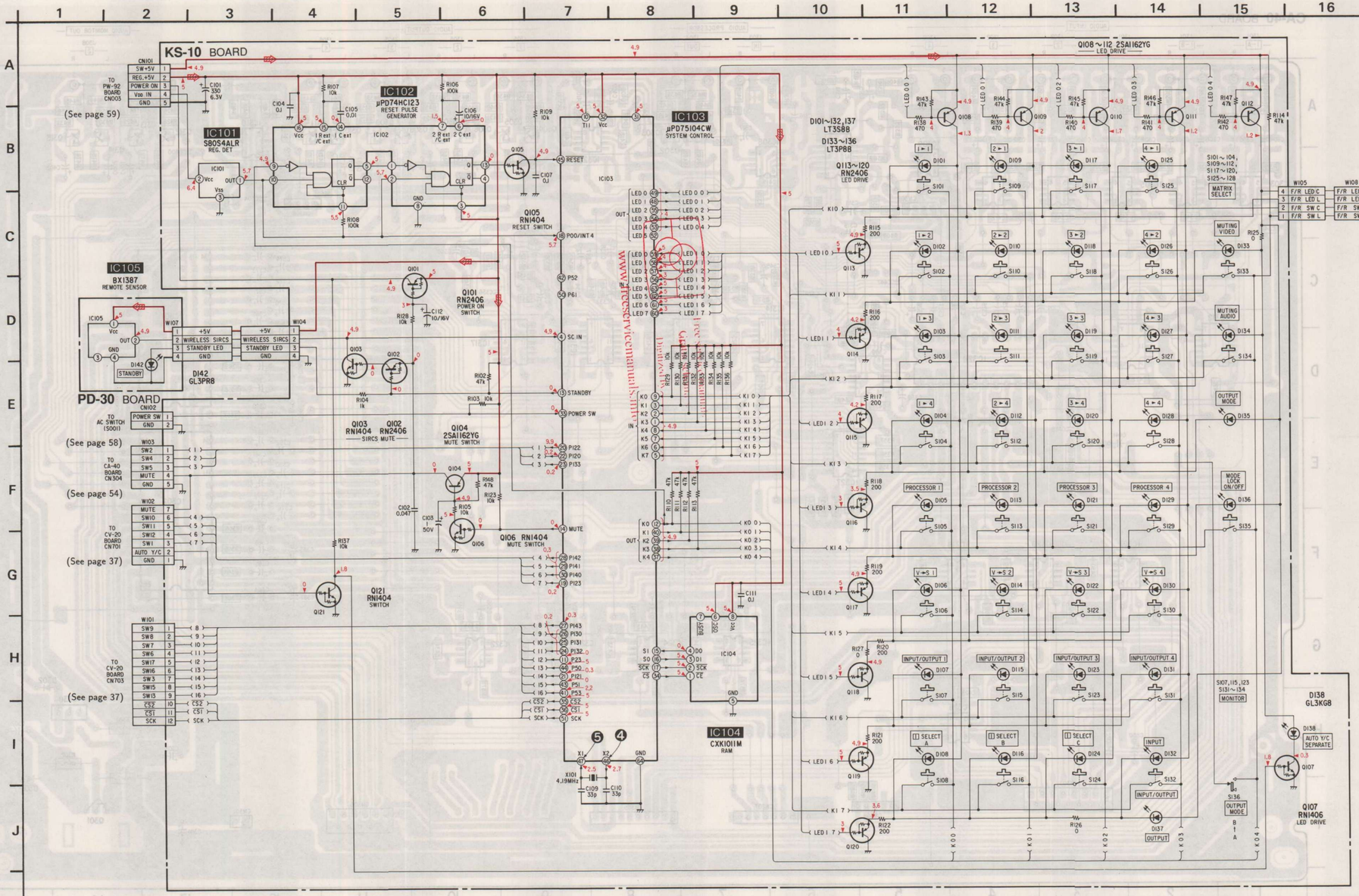




KS-10 BOARD

D101	D-6	D118	C-7	D135	E-10	Q108	C-11
D102	D-7	D119	C-8	D136	A-2	Q109	D-11
D103	D-8	D120	C-9	D137	A-12	Q110	C-11
D104	D-9	D121	C-5	D138	C-14	Q111	C-11
D105	D-5	D122	C-4			Q112	C-11
D106	D-4	D123	C-12	IC101	D-1	Q113	B-11
D107	D-12	D124	D-2	IC102	C-2	Q114	C-12
D108	E-2	D125	B-6	IC103	B-13	Q115	C-11
D109	D-6	D126	B-7	IC104	B-14	Q116	C-12
D110	C-7	D127	B-8			Q117	B-11
D111	C-8	D128	B-9	Q101	B-2	Q118	B-11
D112	D-9	D129	B-5	Q102	A-2	Q119	B-11
D113	C-5	D130	B-4	Q103	A-2	Q120	B-10
D114	C-4	D131	B-12	Q104	A-10	Q121	C-15
D115	D-12	D132	A-12	Q105	C-2		
D116	D-2	D133	D-13	Q106	A-14		
D117	C-6	D134	D-14	Q107	C-15		

KS-10 (SYSTEM CONTROL)
PD-30 (REMOTE CONTROL SENSOR)
FD-41 SCHEMATIC DIAGRAMS
— Ref. No. KS-10 BOARD: 3,000 Series,
PD-30/FD-41 BOARDS: 4,000 Series —



SYSTEM CONTROL SYSTEM CONTROL

SYSTEM CONTROL

CA-40 (AUDIO) FT-62 (AV IN/OUT)

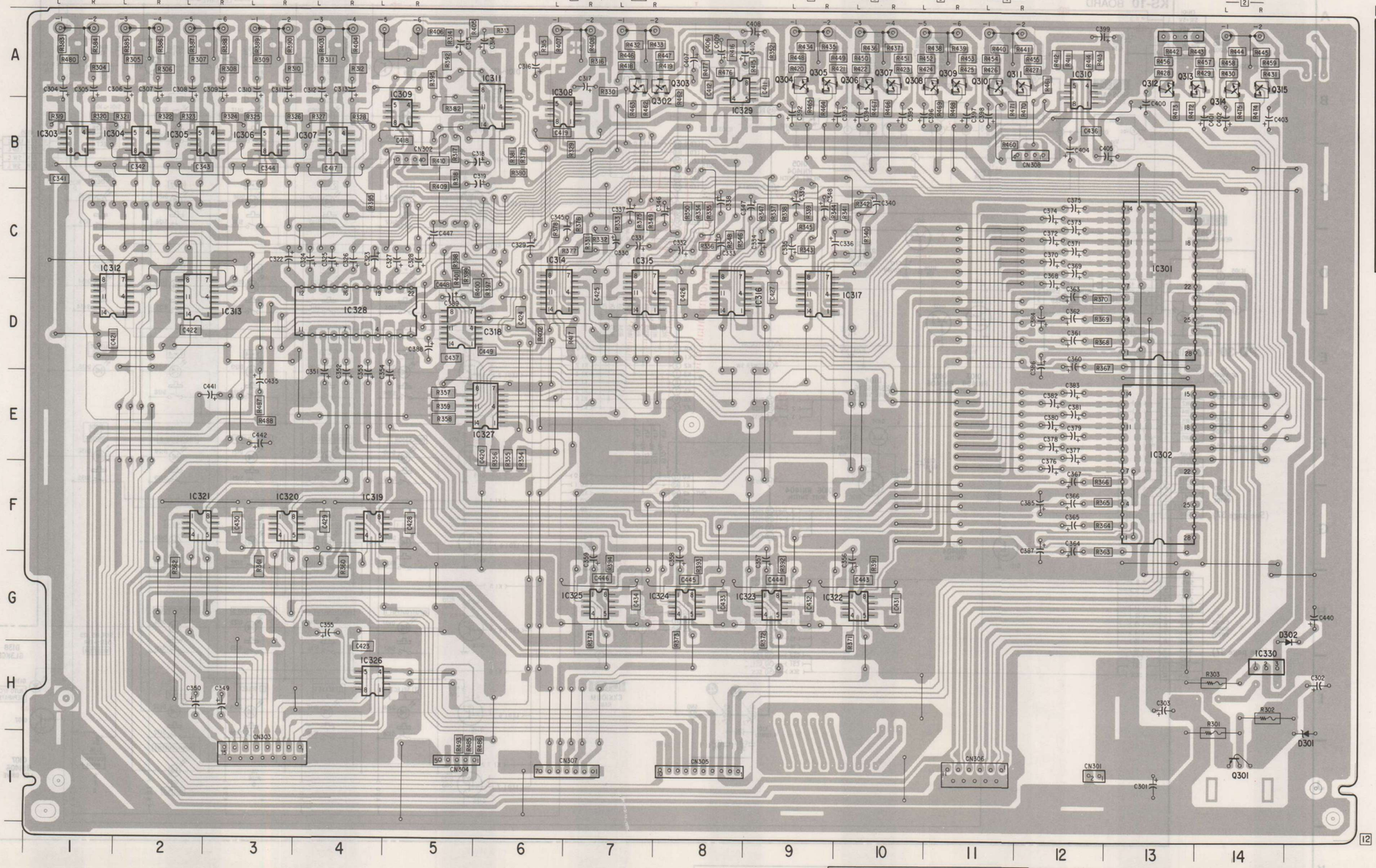
PRINTED WIRING BOARDS

— Ref. No. CA-40 BOARD: 5,000 Series,
FT-62 BOARD: 6,000 Series —

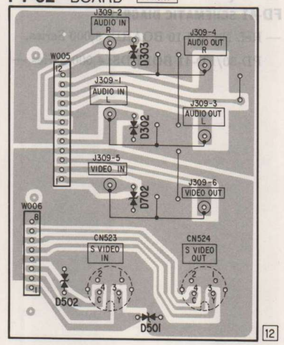
CA-40 BOARD

D301	I-15	IC323	G-9
D302	G-15	IC324	G-8
		IC325	G-7
IC301	C-13	IC326	H-4
IC302	E-13	IC327	E-6
IC303	B-1	IC328	D-4
IC304	B-1	IC329	B-8
IC305	B-2	IC330	H-14
IC306	B-3		
IC307	B-4	Q301	I-14
IC308	A-6	Q302	A-9
IC309	A-5	Q303	A-8
IC310	A-12	Q304	A-9
IC311	A-6	Q305	A-9
IC312	C-1	Q306	A-10
IC313	D-3	Q307	A-10
IC314	C-6	Q308	A-10
IC315	C-7	Q309	A-11
IC316	D-9	Q310	A-11
IC317	D-10	Q311	A-11
IC318	D-5	Q312	A-13
IC319	F-4	Q313	A-13
IC320	F-3	Q314	A-14
IC321	F-2	Q315	A-14
IC322	G-10		

CA-40 BOARD



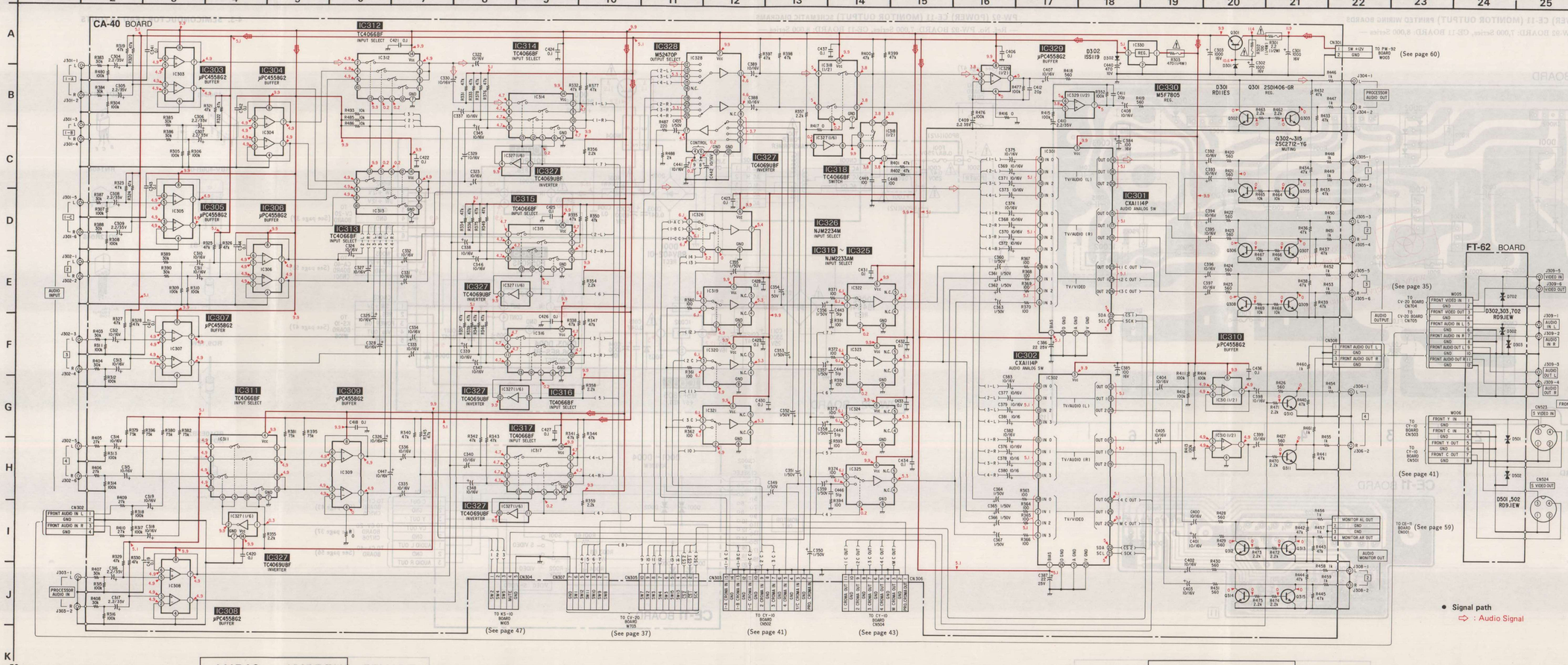
FT-62 BOARD



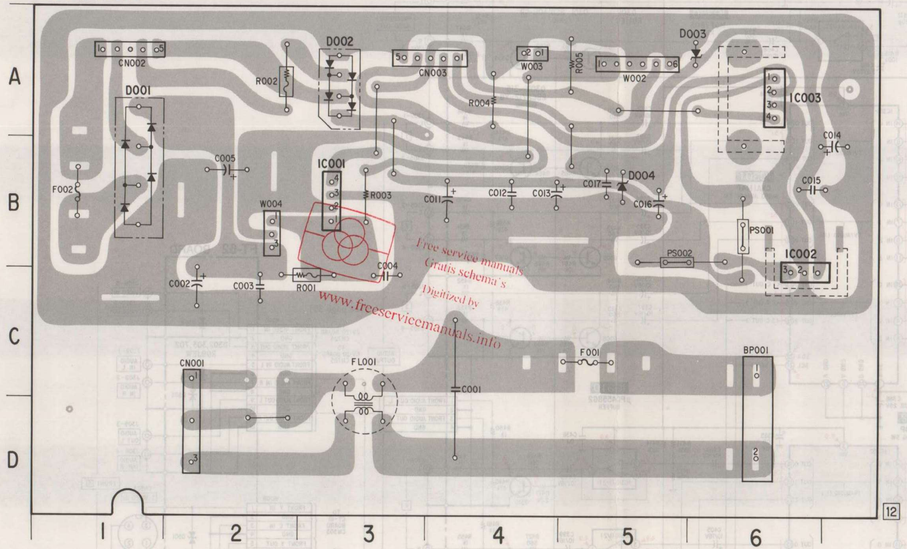
CA-40 (AUDIO) FT-62 (AV IN/OUT)

SCHEMATIC DIAGRAMS

— Ref. No. CA-40 BOARD: 5,000 Series,
FT-62 BOARD: 6,000 Series —



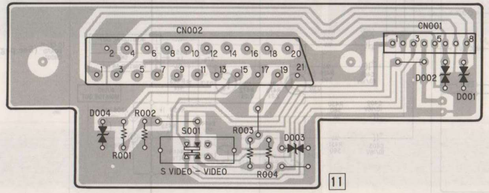
PW-92 BOARD



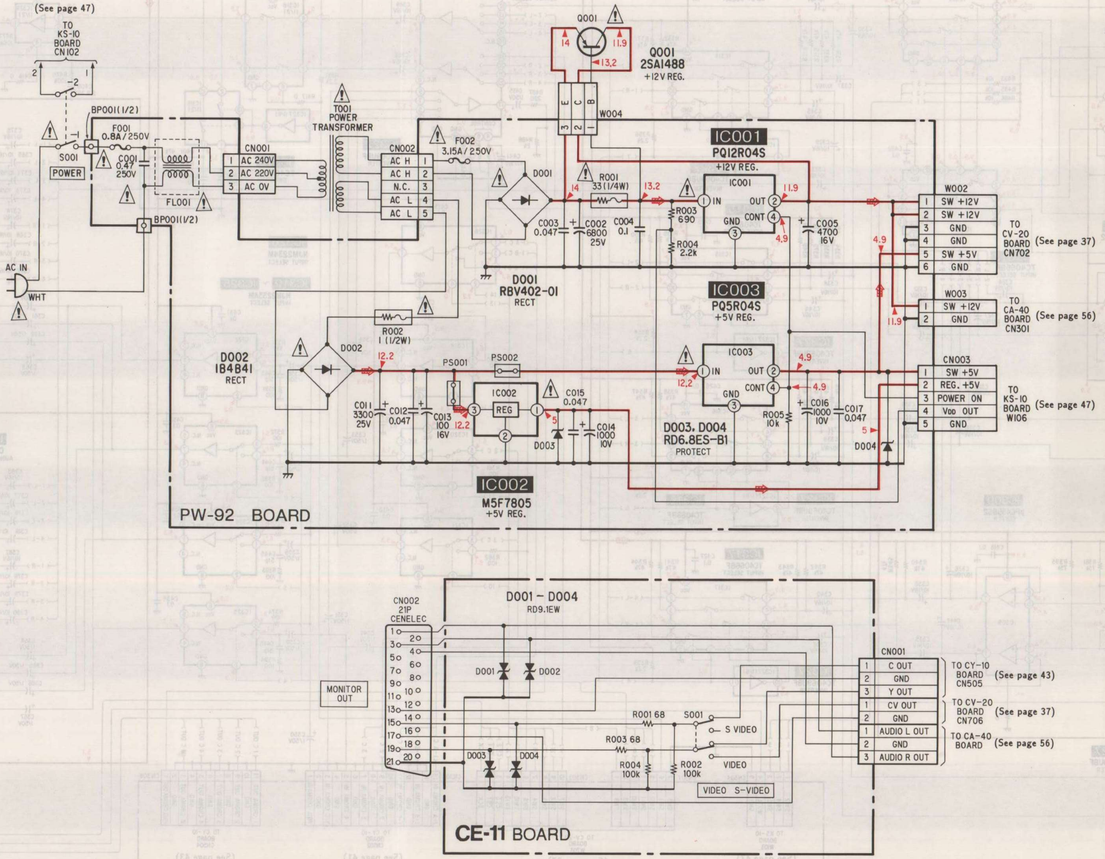
PW-92 BOARD

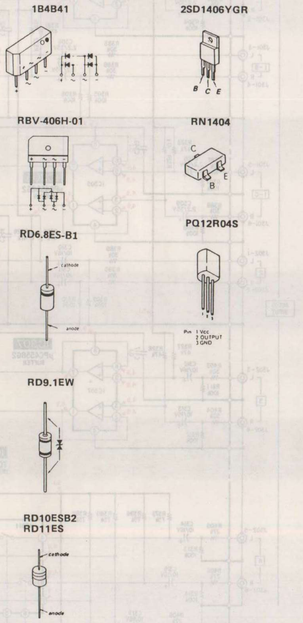
D001	A-1
D002	A-3
D003	A-5
D004	B-5
IC001	B-3
IC002	B-6
IC003	A-6

CE-11 BOARD



POWER SUPPLY





POWER SUPPLY

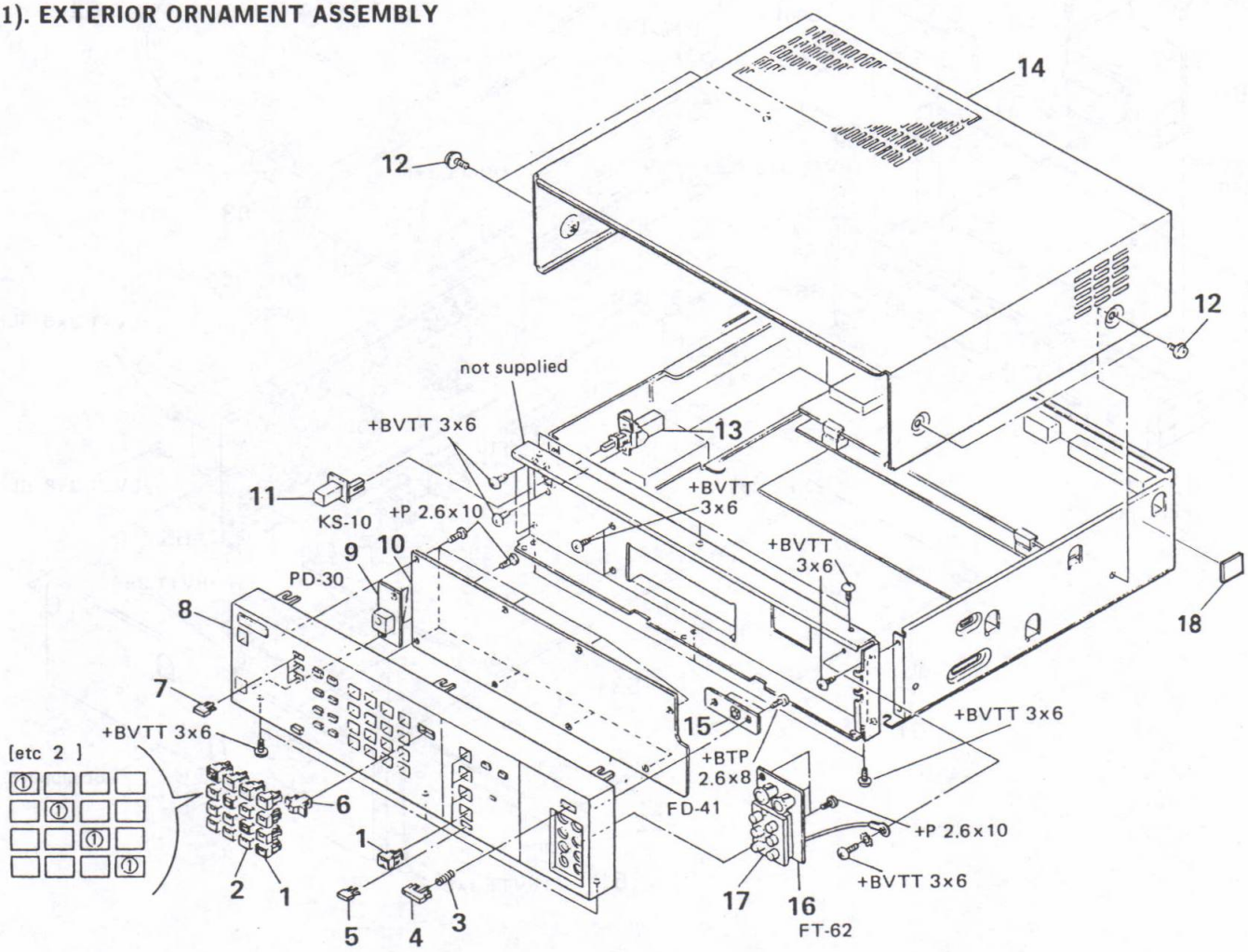
SECTION 5
EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- 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.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.

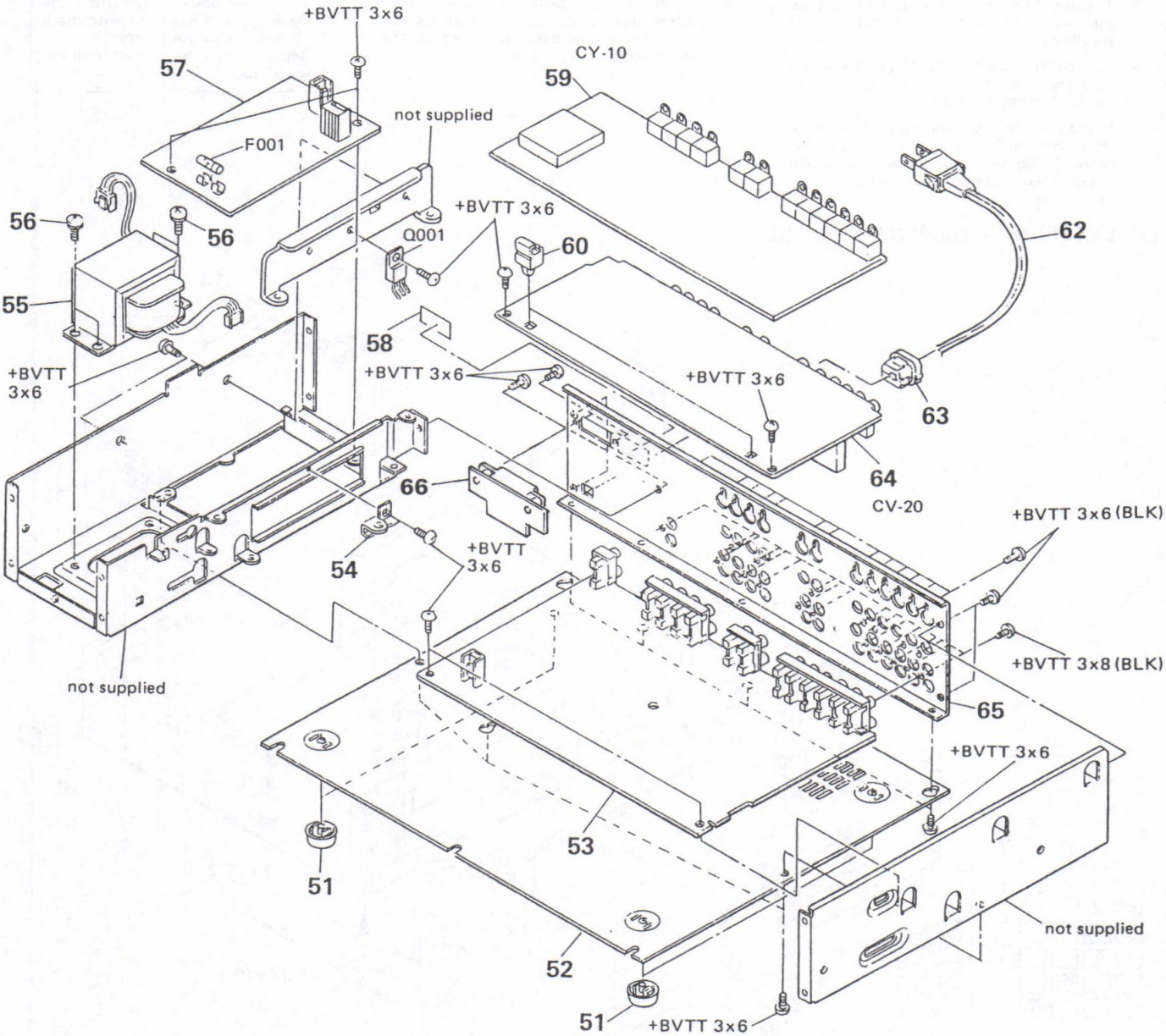
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

(1). EXTERIOR ORNAMENT ASSEMBLY



Ref.No	Part No.	Description	Remark
1	2-186-015-01	BUTTON, MATRIX	
2	2-186-015-11	BUTTON, MATRIX	
3	2-217-533-00	SPRING, COMPRESSION	
4	X-2134-103-1	PUSH BUTTON (FL) ASSY	
5	2-186-018-01	BUTTON, MONITOR SELECTION	
6	2-186-006-01	KNOB, MODE SELECTION	
7	2-186-016-01	BUTTON, SELECT	
8	X-3749-060-1	PANEL ASSY, FRONT	
9	*1-634-705-12	PD-30 BOARD	
10	*A-7071-099-A	KS-10 BOARD, COMPLETE	
11	2-134-115-01	BUTTON, POWER	
12	4-820-330-31	SCREW	
13	⚠ 1-571-877-11	SWITCH,PUSH(AC POWER) (1 KEY) (S001)	
14	2-382-698-11	CASE, UPPER	
15	*1-634-704-12	FD-41 BOARD	
16	*1-634-706-12	FT-62 BOARD	
17	1-566-728-21	TERMINAL, S (VIDEO/AUDIO IN/OUT)	
18	*2-186-029-11	CUSHION, FLYWHEEL	

(2). FRAME ASSEMBLY



Ref.No	Part No.	Description	Remark
51	X-3701-069-0	FOOT ASSY, M.F	
52	*2-382-694-01	PLATE, BOTTOM	
53	*A-7071-102-A	CA-40 BOARD, COMPLETE	
54	2-186-022-01	BRACKET	
55	⚠ 1-450-150-11	TRANSFORMER, POWER (T001)	
56	7-682-660-09	SCREW +PS 4X6	
57	*A-7071-242-A	PW-92 BOARD, COMPLETE	
58	*2-186-035-01	LABEL, MODEL NUMBER (AEP)	
59	*A-7071-241-A	CY-10 BOARD, COMPLETE	
60	3-659-682-00	HOLDER, PC BOARD	
61	⚠ 1-526-882-00	OUTLET, AC	
62	⚠ 1-551-188-XX	CORD, POWER	
63	*3-703-244-00	BUSHING(2104), CORD	
64	*A-7071-243-A	CV-20 BOARD, COMPLETE	
65	*2-186-014-11	PANEL, REAR	
66	*1-636-206-11	CE-11 BOARD	

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

SECTION 6
ELECTRICAL PARTS LIST

CY-10

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF, PF: μμF.

RESISTORS
- All resistors are in ohms.
- F: nonflammable

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA...,
UPC...: μPC, UPD...: μPD...

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref.No.	Part No.	Description			Remark
	*A-7071-097-A	CY-10 BOARD, COMPLETE			
		**********			
	1-566-847-41	CONNECTOR, (S) TERMINAL 4P			
	3-660-552-00	HEAT SINK			
		CAPACITOR			
C501	1-126-103-11	ELECT	470MF	20%	16V
C503	1-126-101-11	ELECT	100MF	20%	16V
C504	1-126-160-11	ELECT	1MF	20%	50V
C505	1-126-157-11	ELECT	10MF	20%	16V
C506	1-126-160-11	ELECT	1MF	20%	50V
C507	1-126-157-11	ELECT	10MF	20%	16V
C508	1-126-160-11	ELECT	1MF	20%	50V
C509	1-126-157-11	ELECT	10MF	20%	16V
C510	1-126-160-11	ELECT	1MF	20%	50V
C511	1-126-157-11	ELECT	10MF	20%	16V
C512	1-126-160-11	ELECT	1MF	20%	50V
C513	1-126-157-11	ELECT	10MF	20%	16V
C514	1-126-160-11	ELECT	1MF	20%	50V
C515	1-126-157-11	ELECT	10MF	20%	16V
C516	1-126-160-11	ELECT	1MF	20%	50V
C517	1-126-157-11	ELECT	10MF	20%	16V
C518	1-126-160-11	ELECT	1MF	20%	50V
C519	1-124-477-11	ELECT	47MF	20%	25V
C520	1-126-160-11	ELECT	1MF	20%	50V
C521	1-126-101-11	ELECT	100MF	20%	16V
C522	1-126-157-11	ELECT	10MF	20%	16V
C523	1-124-477-11	ELECT	47MF	20%	25V
C524	1-124-477-11	ELECT	47MF	20%	25V
C525	1-124-477-11	ELECT	47MF	20%	25V
C526	1-124-477-11	ELECT	47MF	20%	25V
C527	1-124-477-11	ELECT	47MF	20%	25V
C528	1-124-477-11	ELECT	47MF	20%	25V
C529	1-124-477-11	ELECT	47MF	20%	25V
C530	1-124-477-11	ELECT	47MF	20%	25V
C531	1-124-477-11	ELECT	47MF	20%	25V
C532	1-124-477-11	ELECT	47MF	20%	25V
C533	1-124-477-11	ELECT	47MF	20%	25V
C534	1-124-477-11	ELECT	47MF	20%	25V
C535	1-126-101-11	ELECT	100MF	20%	16V
C536	1-126-101-11	ELECT	100MF	20%	16V
C537	1-126-101-11	ELECT	100MF	20%	16V
C538	1-126-101-11	ELECT	100MF	20%	16V
C539	1-124-477-11	ELECT	47MF	20%	25V
C540	1-124-477-11	ELECT	47MF	20%	25V
C541	1-126-160-11	ELECT	1MF	20%	50V
C542	1-163-110-00	CERAMIC CHIP	51PF	5%	50V
C543	1-124-360-00	ELECT	1000MF	20%	16V
C544	1-126-160-11	ELECT	1MF	20%	50V
C545	1-124-477-11	ELECT	47MF	20%	25V
C546	1-126-160-11	ELECT	1MF	20%	50V
C547	1-126-101-11	ELECT	100MF	20%	16V
C548	1-163-110-00	CERAMIC CHIP	51PF	5%	50V
C549	1-124-360-00	ELECT	1000MF	20%	16V
C550	1-126-160-11	ELECT	1MF	20%	50V
C551	1-124-477-11	ELECT	47MF	20%	25V
C552	1-126-160-11	ELECT	1MF	20%	50V
C553	1-126-101-11	ELECT	100MF	20%	16V
C555	1-124-360-00	ELECT	1000MF	20%	16V
C556	1-126-160-11	ELECT	1MF	20%	50V
C557	1-124-477-11	ELECT	47MF	20%	25V
C558	1-126-160-11	ELECT	1MF	20%	50V
C559	1-126-101-11	ELECT	100MF	20%	16V
C561	1-124-360-00	ELECT	1000MF	20%	16V
C562	1-126-160-11	ELECT	1MF	20%	50V
C563	1-124-477-11	ELECT	47MF	20%	25V
C565	1-124-360-00	ELECT	1000MF	20%	16V
C567	1-124-360-00	ELECT	1000MF	20%	16V
C568	1-126-160-11	ELECT	1MF	20%	50V
C569	1-126-160-11	ELECT	1MF	20%	50V
C573	1-163-110-00	CERAMIC CHIP	51PF	5%	50V
C574	1-124-360-00	ELECT	1000MF	20%	16V
C575	1-126-160-11	ELECT	1MF	20%	50V
C576	1-163-110-00	CERAMIC CHIP	51PF	5%	50V
C579	1-126-160-11	ELECT	1MF	20%	50V
C580	1-124-239-00	ELECT	6.8MF	20%	25V
C581	1-126-162-11	ELECT	3.3MF	20%	25V
C582	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C583	1-126-157-11	ELECT	10MF	20%	16V
C610	1-126-162-11	ELECT	3.3MF	20%	25V
C611	1-124-477-11	ELECT	47MF	20%	25V
C612	1-126-157-11	ELECT	10MF	20%	16V
C613	1-126-103-11	ELECT	470MF	20%	16V
C614	1-163-102-00	CERAMIC CHIP	24PF	5%	50V
C615	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C616	1-126-101-11	ELECT	100MF	20%	16V
C617	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C618	1-124-234-00	ELECT	22MF	20%	16V
C619	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C620	1-126-157-11	ELECT	10MF	20%	16V
C621	1-124-242-00	ELECT	33MF	20%	16V
C626	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C627	1-124-477-11	ELECT	47MF	20%	25V
C628	1-163-111-00	CERAMIC CHIP	56PF	5%	50V
C629	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C630	1-124-360-00	ELECT	1000MF	20%	16V
C633	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C634	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C635	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C636	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C637	1-163-038-00	CERAMIC CHIP	0.1MF		25V

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

CY-10

Ref.No.	Part No.	Description			Remark
C638	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C639	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C680	1-124-360-00	ELECT	1000MF	20%	16V
C681	1-126-160-11	ELECT	1MF	20%	50V
		CONNECTOR			
CN501	1-506-469-11	PIN, CONNECTOR 4P			
CN502	- - -	PIN, CONNECTOR 15P			
CN503	1-506-469-11	PIN, CONNECTOR 4P			
CN504	- - -	PIN, CONNECTOR 11P			
CN505	- - -	PIN, CONNECTOR 3P			
CN510	1-566-847-11	PIN, CONNECTOR (S VIDEO IN 1-A)			
CN511	1-566-847-11	PIN, CONNECTOR (S VIDEO IN 1-B)			
CN512	1-566-847-11	PIN, CONNECTOR (S VIDEO IN 1-C)			
CN513	1-566-847-11	PIN, CONNECTOR (S VIDEO IN 2)			
CN514	1-566-847-11	PIN, CONNECTOR (S VIDEO IN 3)			
CN515	1-566-847-11	PIN, CONNECTOR (S VIDEO IN 4)			
CN516	1-566-847-11	PIN, CONNECTOR (S VIDEO PROCESSOR IN)			
CN517	1-566-847-11	PIN, CONNECTOR (S VIDEO PROCESSOR OUT)			
CN518	1-566-847-11	PIN, CONNECTOR (S VIDEO OUT 1)			
CN519	1-566-847-11	PIN, CONNECTOR (S VIDEO OUT 2)			
CN520	1-566-847-11	PIN, CONNECTOR (S VIDEO OUT 3)			
CN521	1-566-847-11	PIN, CONNECTOR (S VIDEO OUT 4)			
		DELAY LINE			
DL501	1-415-745-11	DELAY LINE			
		IC			
IC501	8-759-710-08	IC NJM2234M			
IC502	8-759-710-86	IC NJM2233BM			
IC503	8-759-710-86	IC NJM2233BM			
IC504	8-759-710-08	IC NJM2234M			
IC505	8-759-710-08	IC NJM2234M			
IC507	8-759-710-86	IC NJM2233BM			
IC508	8-759-634-69	IC M52470P			
IC509	8-759-710-86	IC NJM2233BM			
IC510	8-759-710-86	IC NJM2233BM			
IC511	8-759-710-86	IC NJM2233BM			
IC512	8-759-710-86	IC NJM2233BM			
IC513	8-752-032-27	IC CXA1114P			
IC514	8-752-032-27	IC CXA1114P			
IC515	- - -	IC NJM2243M			
IC516	- - -	IC NJM2243M			
IC517	- - -	IC NJM2243M			
IC518	8-759-037-30	IC MC14576AF			
IC519	8-759-037-30	IC MC14576AF			
IC520	- - -	IC NJM2243M			
IC521	8-759-710-12	IC NJM2230M-T1			
		COIL			
L505	1-408-417-00	INDUCTOR	47UH		
		FILTER			
LF501	1-235-496-11	PB C BPF			
LF502	1-235-437-11	FILTER			
		TRANSISTOR			
Q502	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q503	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q504	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q505	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q506	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q507	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q508	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q509	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q511	8-729-207-58	TRANSISTOR RN1404			
Q512	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q513	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q514	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q515	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q516	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q517	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q518	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q519	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
		RESISTOR			
R505	1-216-022-00	METAL GLAZE	75	5%	1/10W
R506	1-216-022-00	METAL GLAZE	75	5%	1/10W
R507	1-216-022-00	METAL GLAZE	75	5%	1/10W
R508	1-216-022-00	METAL GLAZE	75	5%	1/10W
R509	1-216-022-00	METAL GLAZE	75	5%	1/10W
R510	1-216-022-00	METAL GLAZE	75	5%	1/10W
R511	1-216-022-00	METAL GLAZE	75	5%	1/10W
R512	1-216-022-00	METAL GLAZE	75	5%	1/10W
R513	1-216-022-00	METAL GLAZE	75	5%	1/10W
R514	1-216-022-00	METAL GLAZE	75	5%	1/10W
R515	1-216-022-00	METAL GLAZE	75	5%	1/10W
R516	1-216-022-00	METAL GLAZE	75	5%	1/10W
R517	1-216-022-00	METAL GLAZE	75	5%	1/10W
R518	1-216-022-00	METAL GLAZE	75	5%	1/10W
R519	1-216-022-00	METAL GLAZE	75	5%	1/10W
R520	1-216-022-00	METAL GLAZE	75	5%	1/10W
R521	1-216-025-00	METAL GLAZE	100	5%	1/10W
R522	1-216-025-00	METAL GLAZE	100	5%	1/10W
R523	1-216-025-00	METAL GLAZE	100	5%	1/10W
R524	1-216-025-00	METAL GLAZE	100	5%	1/10W
R525	1-216-025-00	METAL GLAZE	100	5%	1/10W
R526	1-216-025-00	METAL GLAZE	100	5%	1/10W
R527	1-216-025-00	METAL GLAZE	100	5%	1/10W
R528	1-216-025-00	METAL GLAZE	100	5%	1/10W
R529	1-216-025-00	METAL GLAZE	100	5%	1/10W
R530	1-216-025-00	METAL GLAZE	100	5%	1/10W
R531	1-216-025-00	METAL GLAZE	100	5%	1/10W
R532	1-216-025-00	METAL GLAZE	100	5%	1/10W
R533	1-216-025-00	METAL GLAZE	100	5%	1/10W
R534	1-216-025-00	METAL GLAZE	100	5%	1/10W
R535	1-216-025-00	METAL GLAZE	100	5%	1/10W
R536	1-216-025-00	METAL GLAZE	100	5%	1/10W
R537	1-216-025-00	METAL GLAZE	100	5%	1/10W
R540	1-216-033-00	METAL GLAZE	220	5%	1/10W
R541	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R542	1-216-021-00	METAL GLAZE	68	5%	1/10W
R543	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R544	1-216-021-00	METAL GLAZE	68	5%	1/10W
R545	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R546	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R547	1-216-025-00	METAL GLAZE	100	5%	1/10W
R548	1-247-704-11	CARBON	220	5%	1/4W

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

Ref.No.	Part No.	Description			Remark
R549	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R550	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R551	1-216-025-00	METAL GLAZE	100	5%	1/10W
R552	1-247-704-11	CARBON	220	5%	1/4W
R554	1-216-033-00	METAL GLAZE	220	5%	1/10W
R555	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R556	1-216-021-00	METAL GLAZE	68	5%	1/10W
R557	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R558	1-216-021-00	METAL GLAZE	68	5%	1/10W
R559	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R560	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R561	1-216-025-00	METAL GLAZE	100	5%	1/10W
R562	1-247-704-11	CARBON	220	5%	1/4W
R563	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R564	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R565	1-216-025-00	METAL GLAZE	100	5%	1/10W
R566	1-247-704-11	CARBON	220	5%	1/4W
R569	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R570	1-216-021-00	METAL GLAZE	68	5%	1/10W
R573	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R574	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R575	1-216-025-00	METAL GLAZE	100	5%	1/10W
R576	1-247-704-11	CARBON	220	5%	1/4W
R577	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R578	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R579	1-216-025-00	METAL GLAZE	100	5%	1/10W
R580	1-247-704-11	CARBON	220	5%	1/4W
R583	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R584	1-216-021-00	METAL GLAZE	68	5%	1/10W
R585	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R586	1-216-021-00	METAL GLAZE	68	5%	1/10W
R587	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R591	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R592	1-216-032-00	METAL GLAZE	200	5%	1/10W
R593	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R594	1-216-032-00	METAL GLAZE	200	5%	1/10W
R595	1-216-033-00	METAL GLAZE	220	5%	1/10W
R596	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R597	1-216-032-00	METAL GLAZE	200	5%	1/10W
R598	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R599	1-216-032-00	METAL GLAZE	200	5%	1/10W
R600	1-216-033-00	METAL GLAZE	220	5%	1/10W
R605	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R606	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R607	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R608	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R609	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R610	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R611	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R612	1-216-043-00	METAL GLAZE	560	5%	1/10W
R613	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W
R614	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R615	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R616	1-216-041-00	METAL GLAZE	470	5%	1/10W
R617	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R618	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R619	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R620	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W
R621	- - -	METAL GLAZE	330K	5%	1/10W
R622	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R623	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R624	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R625	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R626	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R627	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R628	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R629	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R630	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R631	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W
R632	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
R633	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R634	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R635	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R636	- - -	METAL GLAZE	750		
R637	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R638	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R639	1-216-091-00	METAL GLAZE	56K	5%	1/10W
R640	1-216-071-91	METAL GLAZE	8.2K	5%	1/10W
R641	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R642	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R643	⚠1-212-857-00	FUSE	10		
R644	1-216-025-00	METAL GLAZE	100	5%	1/10W
R647	1-216-296-00	METAL GLAZE	0	5%	1/8W

VARIABLE RESISTOR

RV501	1-230-271-11	RES, ADJ, CARBON	4.7K

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*A-7071-242-A	PW-92 BOARD, COMPLETE
	**********
*1-533-189-11	HOLDER, FUSE
*3-660-552-00	HEAT SINK
*4-363-146-00	HEAT SINK, V.OUT

CAPACITOR

C101	- - -	FILM	0.47MF	20%	250V
C002	1-125-394-11	ELECT	6800MF		25V
C003	1-161-021-11	CERAMIC	0.047MF	20%	25V
C004	1-161-772-11	CERAMIC	0.1MF	20%	25V
C005	1-124-898-11	ELECT	4700MF	20%	16V
C011	1-124-636-00	ELECT	3300MF	20%	25V
C012	1-161-021-11	CERAMIC	0.047MF	20%	25V
C013	1-126-101-11	ELECT	100MF	20%	16V
C014	1-124-473-11	ELECT	1000MF	20%	10V
C015	1-161-021-11	CERAMIC	0.047MF	20%	25V
C016	1-124-473-11	ELECT	1000MF	20%	10V
C017	1-161-021-11	CERAMIC	0.047MF	20%	25V

CONNECTOR

CN001	*1-564-687-11	PIN, CONNECTOR 3P
CN002	*1-560-893-00	PIN, CONNECTOR 5P
CN003	1-560-893-31	PIN, CONNECTOR 5P

DIODE

D001	⚠8-719-302-36	DIODE RBV-402-01
D002	⚠8-719-801-39	DIODE 1B4B41
D003	8-719-109-96	DIODE RD6.8ES-B1
D004	8-719-109-96	DIODE RD6.8ES-B1

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

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

PW-92 KS-10

Ref.No.	Part No.	Description			Remark
		FUSE			
F001	⚠1-532- -11	FUSE, GLASS TUBE (0.8A)			
F002	⚠1-532-745-11	FUSE, GLASS TUBE (3.15A)			
PS001	- - -				
PS002	- - -				
		TRANSFORMER			
FL001	⚠1-421-357-31	TRANSFORMER, LINE FILTER			
		IC			
IC001	⚠8-759-946-29	IC PQ12R04S			
IC002	⚠8-759-604-29	IC M5F7805L			
IC003	⚠8-759-945-50	IC PQ05R04S			
		TRANSISTOR			
Q001	⚠8-729-304-07	TRANSISTOR 2SA1488-Y			
		RESISTOR			
R001	⚠1-212-869-00	FUSIBLE	33	5%	1/4W F
R002	⚠1-212-934-00	FUSIBLE	1	5%	1/2W F
R003	1- - -	CARBON	680	5%	1/4W
R004	1- - -	CARBON	2.2K	5%	1/4W
R005	1-247-725-11	CARBON	10K	5%	1/4W

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	*A-7071-099-A	KS-10 BOARD, COMPLETE			
		**********			
	*3-697-607-01	HOLDER (SU), LED			
		CAPACITOR			
C101	1-124-442-00	ELECT	330MF	20%	6.3V
C102	1-163-075-00	CERAMIC CHIP	0.047MF		50V
C103	1-126-160-11	ELECT	1MF	20%	50V
C104	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C105	1-163-059-00	CERAMIC CHIP	0.01MF	10%	50V
C106	1-126-157-11	ELECT	10MF	20%	16V
C107	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C109	1-163-169-00	CERAMIC CHIP	33PF	5%	50V
C110	1-163-169-00	CERAMIC CHIP	33PF	5%	50V
C111	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C112	1-126-157-11	ELECT	10MF	20%	16V
		CONNECTOR			
CN101	*1-564-030-00	PIN, CONNECTOR 5P			
CN102	1-506-481-00	PIN, CONNECTOR 2P			
		DIODE			
D101	- - -	DIODE LT3S8B			
D102	- - -	DIODE LT3S8B			
D103	- - -	DIODE LT3S8B			
D104	- - -	DIODE LT3S8B			
D105	- - -	DIODE LT3S8B			
D106	- - -	DIODE LT3S8B			
D107	- - -	DIODE LT3S8B			
D108	- - -	DIODE LT3S8B			
D109	- - -	DIODE LT3S8B			
D110	- - -	DIODE LT3S8B			
D111	- - -	DIODE LT3S8B			
D112	- - -	DIODE LT3S8B			
D113	- - -	DIODE LT3S8B			
D114	- - -	DIODE LT3S8B			
D115	- - -	DIODE LT3S8B			
D116	- - -	DIODE LT3S8B			
D117	- - -	DIODE LT3S8B			
D118	- - -	DIODE LT3S8B			
D119	- - -	DIODE LT3S8B			
D120	- - -	DIODE LT3S8B			
D121	- - -	DIODE LT3S8B			
D122	- - -	DIODE LT3S8B			
D123	- - -	DIODE LT3S8B			
D124	- - -	DIODE LT3S8B			
D125	- - -	DIODE LT3S8B			
D126	- - -	DIODE LT3S8B			
D127	- - -	DIODE LT3S8B			
D128	- - -	DIODE LT3S8B			
D129	- - -	DIODE LT3S8B			
D130	- - -	DIODE LT3S8B			
D131	- - -	DIODE LT3S8B			
D132	- - -	DIODE LT3S8B			
D133	- - -	DIODE LT3P8B			
D134	- - -	DIODE LT3P8B			
D135	- - -	DIODE LT3P8B			
D136	- - -	DIODE LT3P8B			
D137	- - -	DIODE LT3S8B			
D138	- - -	DIODE GL3KG8			
		IC			
IC101	8-759-946-03	IC S-8054ALR-LN-T1			
IC102	8-759-106-81	IC UPD74HC123AG			
IC103	8-759-148-57	IC UPD75104CW-215			
IC104	8-752-329-46	IC CXK1011M-T2			
		TRANSISTOR			
Q101	8-729-207-72	TRANSISTOR RN2406			
Q102	8-729-207-72	TRANSISTOR RN2406			
Q103	8-729-207-58	TRANSISTOR RN1404			
Q104	8-729-216-22	TRANSISTOR 2SA1162YG-TE85L			
Q105	8-729-207-58	TRANSISTOR RN1404			
Q106	8-729-207-58	TRANSISTOR RN1404			
Q107	8-729-207-61	TRANSISTOR RN1406			
Q108	8-729-216-22	TRANSISTOR 2SA1162YG-TE85L			
Q109	8-729-216-22	TRANSISTOR 2SA1162YG-TE85L			
Q110	8-729-216-22	TRANSISTOR 2SA1162YG-TE85L			
Q111	8-729-216-22	TRANSISTOR 2SA1162YG-TE85L			
Q112	8-729-216-22	TRANSISTOR 2SA1162YG-TE85L			
Q113	8-729-207-72	TRANSISTOR RN2406			
Q114	8-729-207-72	TRANSISTOR RN2406			
Q115	8-729-207-72	TRANSISTOR RN2406			
Q116	8-729-207-72	TRANSISTOR RN2406			
Q117	8-729-207-72	TRANSISTOR RN2406			
Q118	8-729-207-72	TRANSISTOR RN2406			
Q119	8-729-207-72	TRANSISTOR RN2406			
Q120	8-729-207-72	TRANSISTOR RN2406			
Q121	8-729-207-58	TRANSISTOR RN1404			

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

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

Ref.No.	Part No.	Description			Remark
		RESISTOR			
R102	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R103	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R104	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R105	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R106	1-216-246-00	METAL GLAZE	100K	5%	1/8W
R107	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R108	1-216-246-00	METAL GLAZE	100K	5%	1/8W
R109	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R110	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R111	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R112	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R113	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R114	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R115	1-247-814-11	CARBON	200	5%	1/4W
R116	1-247-814-11	CARBON	200	5%	1/4W
R117	1-247-814-11	CARBON	200	5%	1/4W
R118	1-247-814-11	CARBON	200	5%	1/4W
R119	1-247-814-11	CARBON	200	5%	1/4W
R120	1-247-814-11	CARBON	200	5%	1/4W
R121	1-247-814-11	CARBON	200	5%	1/4W
R122	1-247-814-11	CARBON	200	5%	1/4W
R123	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R125	1-216-296-00	METAL GLAZE	0	5%	1/8W
R126	1-216-296-00	METAL GLAZE	0	5%	1/8W
R127	1-216-296-00	METAL GLAZE	0	5%	1/8W
R128	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R129	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R130	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R131	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R132	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R133	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R134	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R135	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R136	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R137	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R138	1-216-041-00	METAL GLAZE	470	5%	1/10W
R139	1-216-041-00	METAL GLAZE	470	5%	1/10W
R140	1-216-041-00	METAL GLAZE	470	5%	1/10W
R141	1-216-041-00	METAL GLAZE	470	5%	1/10W
R142	1-216-041-00	METAL GLAZE	470	5%	1/10W
R143	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R144	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R145	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R146	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R147	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R148	1-216-089-00	METAL GLAZE	47K	5%	1/10W
		SWITCH			
S101	1-571-977-11	SWITCH, TACTIL (1-1)			
S102	1-571-977-11	SWITCH, TACTIL (1-2)			
S103	1-571-977-11	SWITCH, TACTIL (1-3)			
S104	1-571-977-11	SWITCH, TACTIL (1-4)			
S105	1-571-977-11	SWITCH, TACTIL (PROCESSOR 1)			
S106	1-571-977-11	SWITCH, TACTIL (V -> S1)			
S107	1-571-977-11	SWITCH, TACTIL (INPUT/OUTPUT 1)			
S108	1-571-977-11	SWITCH, TACTIL (SELECT A)			
S109	1-571-977-11	SWITCH, TACTIL (2-1)			
S110	1-571-977-11	SWITCH, TACTIL (2-2)			

Ref.No.	Part No.	Description	Remark
S111	1-571-977-11	SWITCH, TACTIL (2-3)	
S112	1-571-977-11	SWITCH, TACTIL (2-4)	
S113	1-571-977-11	SWITCH, TACTIL (PROCESSOR 2)	
S114	1-571-977-11	SWITCH, TACTIL (V -> S2)	
S115	1-571-977-11	SWITCH, TACTIL (INPUT/OUTPUT 2)	
S116	1-571-977-11	SWITCH, TACTIL (SELECT B)	
S117	1-571-977-11	SWITCH, TACTIL (3-1)	
S118	1-571-977-11	SWITCH, TACTIL (3-2)	
S119	1-571-977-11	SWITCH, TACTIL (3-3)	
S120	1-571-977-11	SWITCH, TACTIL (3-4)	
S121	1-571-977-11	SWITCH, TACTIL (PROCESSOR 3)	
S122	1-571-977-11	SWITCH, TACTIL (V -> S3)	
S123	1-571-977-11	SWITCH, TACTIL (INPUT/OUTPUT 3)	
S124	1-571-977-11	SWITCH, TACTIL (SELECT C)	
S125	1-571-977-11	SWITCH, TACTIL (4-1)	
S126	1-571-977-11	SWITCH, TACTIL (4-2)	
S127	1-571-977-11	SWITCH, TACTIL (4-3)	
S128	1-571-977-11	SWITCH, TACTIL (4-4)	
S129	1-571-977-11	SWITCH, TACTIL (PROCESSOR 4)	
S130	1-571-977-11	SWITCH, TACTIL (V -> S4)	
S131	1-571-977-11	SWITCH, TACTIL (INPUT/OUTPUT 4)	
S132	1-571-977-11	SWITCH, TACTIL (INPUT/OUTPUT)	
S133	1-571-977-11	SWITCH, TACTIL (MUTING VIDEO)	
S134	1-571-977-11	SWITCH, TACTIL (MUTING AUDIO)	
S135	1-571-977-11	SWITCH, TACTIL (MODE LOCK ON/OFF)	
S136	1-570-858-11	SWITCH, SLIDE (MODE OUT)	
		CRYSTAL	
X101	1-567-170-11	VIBRATOR, CERAMIC (4.19MHz)	

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* - - - FT-62 BOARD
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		CONNECTOR	
CN523	1-507-637-31	JACK, PIN 6P	
CN524	1-507-637-31	JACK, PIN 6P	
		DIODE	
D302	8-719-108-12	DIODE RD9.1EW	
D303	8-719-108-12	DIODE RD9.1EW	
D501	8-719-108-12	DIODE RD9.1EW	
D502	8-719-108-12	DIODE RD9.1EW	
D702	8-719-108-12	DIODE RD9.1EW	
		JACK	
J309	1-566-728-21	TERMINAL, S (VIDEO/AUDIO IN/OUT)	

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	*A-7171-101-A	CV-20 BOARD, COMPLETE
		**********
	1-507-845-41	JACK, PIN(A)
	1-565-406-11	JACK, PIN 1P
	*3-660-552-00	HEAT SINK
	7-682-547-04	SCREW +BVTT 3X6 (S)

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

CV-20

Ref.No.	Part No.	Description				Remark
		CAPACITOR				
C701	1-126-101-11	ELECT	100MF	20%	16V	
C702	1-126-101-11	ELECT	100MF	20%	16V	
C703	1-124-477-11	ELECT	47MF	20%	25V	
C704	1-124-477-11	ELECT	47MF	20%	25V	
C705	1-124-477-11	ELECT	47MF	20%	25V	
C706	1-124-477-11	ELECT	47MF	20%	25V	
C707	1-124-477-11	ELECT	47MF	20%	25V	
C708	1-124-477-11	ELECT	47MF	20%	25V	
C709	1-124-477-11	ELECT	47MF	20%	25V	
C710	1-124-477-11	ELECT	47MF	20%	25V	
C711	1-126-101-11	ELECT	100MF	20%	16V	
C712	1-124-477-11	ELECT	47MF	20%	25V	
C713	1-126-101-11	ELECT	100MF	20%	16V	
C714	1-124-477-11	ELECT	47MF	20%	25V	
C715	1-126-101-11	ELECT	100MF	20%	16V	
C716	1-124-477-11	ELECT	47MF	20%	25V	
C717	1-124-477-11	ELECT	47MF	20%	25V	
C718	1-124-477-11	ELECT	47MF	20%	25V	
C721	1-124-477-11	ELECT	47MF	20%	25V	
C722	1-124-477-11	ELECT	47MF	20%	25V	
C723	1-124-477-11	ELECT	47MF	20%	25V	
C724	1-124-477-11	ELECT	47MF	20%	25V	
C725	1-126-101-11	ELECT	100MF	20%	16V	
C726	1-126-101-11	ELECT	100MF	20%	16V	
C727	1-126-101-11	ELECT	100MF	20%	16V	
C728	1-126-101-11	ELECT	100MF	20%	16V	
C729	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C734	1-163-110-00	CERAMIC CHIP	51PF	5%	50V	
C735	1-124-473-11	ELECT	1000MF	20%	10V	
C736	1-124-477-11	ELECT	47MF	20%	25V	
C739	1-124-473-11	ELECT	1000MF	20%	10V	
C740	1-124-477-11	ELECT	47MF	20%	25V	
C743	1-124-473-11	ELECT	1000MF	20%	10V	
C744	1-124-477-11	ELECT	47MF	20%	25V	
C746	1-124-473-11	ELECT	1000MF	20%	10V	
C755	1-124-473-11	ELECT	1000MF	20%	10V	
C756	1-124-477-11	ELECT	47MF	20%	25V	
C759	1-124-473-11	ELECT	1000MF	20%	10V	
C760	1-124-477-11	ELECT	47MF	20%	25V	
C761	1-126-157-11	ELECT	10MF	20%	16V	
C762	1-126-103-11	ELECT	470MF	20%	16V	
C763	1-163-102-00	CERAMIC CHIP	24PF	5%	50V	
C764	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C765	1-163-009-00	CERAMIC	0.001	10%	50V	
C766	1-126-157-11	ELECT	10MF	20%	16V	
C767	1-124-242-00	ELECT	33MF	20%	16V	
C768	1-124-234-00	ELECT	22MF	20%	16V	
C769	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C770	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C782	1-126-103-11	ELECT	470MF	20%	16V	
C783	1-163-111-00	CERAMIC CHIP	56PF	5%	50V	
C784	1-124-360-00	ELECT	1000MF	20%	16V	
C785	1-126-101-11	ELECT	100MF	20%	16V	
		CONNECTOR				
CN701	- - -	PIN, CONNECTOR 7P				
CN702	*1-564-031-00	PIN, CONNECTOR 6P				
CN703	- - -	PIN, CONNECTOR 12P				
CN704	1-506-467-11	PIN, CONNECTOR 2P				
CN705	1-506-467-11	PIN, CONNECTOR 2P				
CN706	1-506-467-11	PIN, CONNECTOR 2P				
		DIODE				
D701	8-719-112-68	DIODE RD10ES-T2B2				
		DELAY LINE				
DL701	1-415-745-11	DELAY LINE				
		IC				
IC701	8-759-710-07	IC NJM2234M				
IC702	8-759-634-70	IC M52471P				
IC703	8-759-634-69	IC M52470P				
IC704	8-759-710-09	IC NJM2233AM(T1)				
IC705	- - -	IC NJM2243M				
IC707	8-759-710-09	IC NJM2233AM(T1)				
IC708	8-759-710-09	IC NJM2233AM(T1)				
IC709	8-759-710-09	IC NJM2233AM(T1)				
IC710	8-759-710-09	IC NJM2233AM(T1)				
IC711	8-752-032-27	IC CXA1114P				
IC712	8-752-032-27	IC CXA1114P				
IC715	8-759-232-58	IC TC74HC139AF				
IC716	8-759-030-67	IC MC14576AF				
		JACK				
J710	1-507-845-41	JACK, PIN(A) (VIDEO IN)				
J711	1-507-845-41	JACK, PIN(A) (VIDEO IN)				
J712	1-565-352-21	JACK, PIN 2P (PROCESSOR IN/OUT)				
J713	1-565-352-21	JACK, PIN 2P (VIDEO OUT)				
J714	1-565-352-21	JACK, PIN 2P (VIDEO OUT)				
		COIL				
L701	1-408-417-00	INDUCTOR	47UH			
		FILTER				
LF701	1-235-496-11	PB C BPF				
LF702	1-235-437-11					
		TRANSISTOR				
Q701	8-729-201-79	TRANSISTOR 2SD1406-GR				
Q702	8-729-207-57	TRANSISTOR RN1403				
Q709	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L				
Q710	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L				
Q711	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L				
Q712	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L				
Q713	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L				
Q714	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L				
Q715	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L				
Q716	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L				
Q717	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L				
Q718	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L				
Q719	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L				
Q720	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L				
		RESISTOR				
R701	⚠1-212-942-00	FUSIBLE	2.2	5%	1/2W F	
R702	⚠1-212-889-00	FUSIBLE	220	5%	1/4W F	

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

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

Ref.No.	Part No.	Description			Remark
R706	1-216-025-00	METAL GLAZE	100	5%	1/10W
R707	1-216-025-00	METAL GLAZE	100	5%	1/10W
R708	1-216-025-00	METAL GLAZE	100	5%	1/10W
R709	1-216-025-00	METAL GLAZE	100	5%	1/10W
R711	1-216-025-00	METAL GLAZE	100	5%	1/10W
R712	1-216-025-00	METAL GLAZE	100	5%	1/10W
R713	1-216-025-00	METAL GLAZE	100	5%	1/10W
R714	1-216-025-00	METAL GLAZE	100	5%	1/10W
R715	1-216-025-00	METAL GLAZE	100	5%	1/10W
R716	1-216-025-00	METAL GLAZE	100	5%	1/10W
R717	1-216-025-00	METAL GLAZE	100	5%	1/10W
R718	1-216-025-00	METAL GLAZE	100	5%	1/10W
R719	1-216-025-00	METAL GLAZE	100	5%	1/10W
R720	1-216-025-00	METAL GLAZE	100	5%	1/10W
R721	1-216-025-00	METAL GLAZE	100	5%	1/10W
R722	1-216-025-00	METAL GLAZE	100	5%	1/10W
R723	1-216-025-00	METAL GLAZE	100	5%	1/10W
R724	1-216-025-00	METAL GLAZE	100	5%	1/10W
R725	1-216-025-00	METAL GLAZE	100	5%	1/10W
R726	1-216-025-00	METAL GLAZE	100	5%	1/10W
R727	1-216-025-00	METAL GLAZE	100	5%	1/10W
R728	1-216-025-00	METAL GLAZE	100	5%	1/10W
R729	1-216-025-00	METAL GLAZE	100	5%	1/10W
R730	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R736	1-216-022-00	METAL GLAZE	75	5%	1/10W
R737	1-216-022-00	METAL GLAZE	75	5%	1/10W
R738	1-216-022-00	METAL GLAZE	75	5%	1/10W
R739	1-216-022-00	METAL GLAZE	75	5%	1/10W
R740	1-216-022-00	METAL GLAZE	75	5%	1/10W
R741	1-216-022-00	METAL GLAZE	75	5%	1/10W
R742	1-216-022-00	METAL GLAZE	75	5%	1/10W
R743	1-216-022-00	METAL GLAZE	75	5%	1/10W
R750	1-216-033-00	METAL GLAZE	220	5%	1/10W
R751	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R752	1-216-021-00	METAL GLAZE	68	5%	1/10W
R753	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R754	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R755	1-216-025-00	METAL GLAZE	100	5%	1/10W
R756	1-247-704-11	CARBON	220	5%	1/4W
R757	1-216-021-00	METAL GLAZE	68	5%	1/10W
R760	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R761	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R762	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R763	1-216-025-00	METAL GLAZE	100	5%	1/10W
R764	1-247-704-11	CARBON	220	5%	1/4W
R767	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R768	1-216-021-00	METAL GLAZE	68	5%	1/10W
R769	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R770	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R771	1-216-025-00	METAL GLAZE	100	5%	1/10W
R772	1-247-704-11	CARBON	220	5%	1/4W
R775	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R776	1-216-021-00	METAL GLAZE	68	5%	1/10W
R778	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R779	1-216-032-00	METAL GLAZE	200	5%	1/10W
R780	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R781	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R784	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R785	1-216-032-00	METAL GLAZE	200	5%	1/10W
R786	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R787	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R788	1-216-025-00	METAL GLAZE	100	5%	1/10W
R789	1-247-704-11	CARBON	220	5%	1/4W
R792	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R794	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R795	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R796	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R797	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W
R798	- - -	METAL GLAZE	330K	5%	1/10W
R799	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R800	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R801	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R802	1-216-025-00	METAL GLAZE	100	5%	1/10W
R803	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R804	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R805	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R807	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R808	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R809	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R810	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R811	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W
R812	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
R813	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R814	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R815	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R816	1-216-048-00	METAL GLAZE	910	5%	1/10W
R817	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R818	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R819	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W
R820	1-216-091-00	METAL GLAZE	56K	5%	1/10W
R821	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R832	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R833	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R834	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R835	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R836	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R837	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R838	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R839	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R840	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R841	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R842	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R843	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R844	1-216-043-00	METAL GLAZE	560	5%	1/10W
R845	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W
R846	1-216-025-00	METAL GLAZE	100	5%	1/10W
R847	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R848	⚠1-212-857-00	FUSIBLE	10	5%	1/4W F
R849	1-216-025-00	METAL GLAZE	100	5%	1/10W

VARIABLE RESISTOR

RV701	1-228-993-00	RES, ADJ, CARBON	4.7K

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*A-7071-102-A	CA-40 BOARD, COMPLETE
	**********
1-563-524-21	JACK, PIN 6P

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

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

CA-40

Ref.No.	Part No.	Description			Remark
	1-565-352-21	JACK, PIN 2P			
	*3-660-552-00	HEAT SINK			
	7-682-548-04	SCREW +BVTT 3X8 (S)			
		CAPACITOR			
C301	1-124-555-61	ELECT	1000MF	20%	16V
C302	1-124-555-61	ELECT	1000MF	20%	16V
C303	1-124-555-61	ELECT	1000MF	20%	16V
C304	1-124-257-00	ELECT	2.2MF	20%	35V
C305	1-124-257-00	ELECT	2.2MF	20%	35V
C306	1-124-257-00	ELECT	2.2MF	20%	35V
C307	1-124-257-00	ELECT	2.2MF	20%	35V
C308	1-124-257-00	ELECT	2.2MF	20%	35V
C309	1-124-257-00	ELECT	2.2MF	20%	35V
C310	1-126-157-11	ELECT	10MF	20%	16V
C311	1-126-157-11	ELECT	10MF	20%	16V
C312	1-126-157-11	ELECT	10MF	20%	16V
C313	1-126-157-11	ELECT	10MF	20%	16V
C314	1-126-157-11	ELECT	10MF	20%	16V
C315	1-126-157-11	ELECT	10MF	20%	16V
C316	1-124-257-00	ELECT	2.2MF	20%	35V
C317	1-124-257-00	ELECT	2.2MF	20%	35V
C318	1-126-157-11	ELECT	10MF	20%	16V
C319	1-126-157-11	ELECT	10MF	20%	16V
C322	1-126-157-11	ELECT	10MF	20%	16V
C323	1-126-157-11	ELECT	10MF	20%	16V
C324	1-126-157-11	ELECT	10MF	20%	16V
C325	1-126-157-11	ELECT	10MF	20%	16V
C326	1-126-157-11	ELECT	10MF	20%	16V
C327	1-126-157-11	ELECT	10MF	20%	16V
C328	1-126-157-11	ELECT	10MF	20%	16V
C329	1-126-157-11	ELECT	10MF	20%	16V
C330	1-126-157-11	ELECT	10MF	20%	16V
C331	1-126-157-11	ELECT	10MF	20%	16V
C332	1-126-157-11	ELECT	10MF	20%	16V
C333	1-126-157-11	ELECT	10MF	20%	16V
C334	1-126-157-11	ELECT	10MF	20%	16V
C335	1-126-157-11	ELECT	10MF	20%	16V
C336	1-126-157-11	ELECT	10MF	20%	16V
C337	1-126-157-11	ELECT	10MF	20%	16V
C338	1-126-157-11	ELECT	10MF	20%	16V
C339	1-126-157-11	ELECT	10MF	20%	16V
C340	1-126-157-11	ELECT	10MF	20%	16V
C341	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C342	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C343	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C344	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C345	1-126-157-11	ELECT	10MF	20%	16V
C346	1-126-157-11	ELECT	10MF	20%	16V
C347	1-126-157-11	ELECT	10MF	20%	16V
C348	1-126-157-11	ELECT	10MF	20%	16V
C349	1-126-160-11	ELECT	1MF	20%	50V
C350	1-126-160-11	ELECT	1MF	20%	50V
C351	1-126-160-11	ELECT	1MF	20%	50V
C352	1-126-160-11	ELECT	1MF	20%	50V
C353	1-126-160-11	ELECT	1MF	20%	50V
C354	1-126-160-11	ELECT	1MF	20%	50V
C355	1-126-160-11	ELECT	1MF	20%	50V
C356	1-126-160-11	ELECT	1MF	20%	50V
C357	1-126-160-11	ELECT	1MF	20%	50V
C358	1-126-160-11	ELECT	1MF	20%	50V
C359	1-126-160-11	ELECT	1MF	20%	50V
C360	1-126-160-11	ELECT	1MF	20%	50V
C361	1-126-160-11	ELECT	1MF	20%	50V
C362	1-126-160-11	ELECT	1MF	20%	50V
C363	1-126-160-11	ELECT	1MF	20%	50V
C364	1-126-160-11	ELECT	1MF	20%	50V
C365	1-126-160-11	ELECT	1MF	20%	50V
C366	1-126-160-11	ELECT	1MF	20%	50V
C367	1-126-160-11	ELECT	1MF	20%	50V
C368	1-126-157-11	ELECT	10MF	20%	16V
C369	1-126-157-11	ELECT	10MF	20%	16V
C370	1-126-157-11	ELECT	10MF	20%	16V
C371	1-126-157-11	ELECT	10MF	20%	16V
C372	1-126-157-11	ELECT	10MF	20%	16V
C373	1-126-157-11	ELECT	10MF	20%	16V
C374	1-126-157-11	ELECT	10MF	20%	16V
C375	1-126-157-11	ELECT	10MF	20%	16V
C376	1-126-157-11	ELECT	10MF	20%	16V
C377	1-126-157-11	ELECT	10MF	20%	16V
C378	1-126-157-11	ELECT	10MF	20%	16V
C379	1-126-157-11	ELECT	10MF	20%	16V
C380	1-126-157-11	ELECT	10MF	20%	16V
C381	1-126-157-11	ELECT	10MF	20%	16V
C382	1-126-157-11	ELECT	10MF	20%	16V
C383	1-126-157-11	ELECT	10MF	20%	16V
C384	1-126-101-11	ELECT	100MF	20%	16V
C385	1-126-101-11	ELECT	100MF	20%	16V
C386	- - -	ELECT	22MF	20%	25V
C387	- - -	ELECT	22MF	20%	25V
C388	1-126-157-11	ELECT	10MF	20%	16V
C389	1-126-157-11	ELECT	10MF	20%	16V
C392	1-126-157-11	ELECT	10MF	20%	16V
C393	1-126-157-11	ELECT	10MF	20%	16V
C394	1-126-157-11	ELECT	10MF	20%	16V
C395	1-126-157-11	ELECT	10MF	20%	16V
C396	1-126-157-11	ELECT	10MF	20%	16V
C397	1-126-157-11	ELECT	10MF	20%	16V
C398	1-126-157-11	ELECT	10MF	20%	16V
C399	1-126-157-11	ELECT	10MF	20%	16V
C400	1-126-157-11	ELECT	10MF	20%	16V
C401	1-126-157-11	ELECT	10MF	20%	16V
C402	1-126-157-11	ELECT	10MF	20%	16V
C403	1-126-157-11	ELECT	10MF	20%	16V
C404	1-126-157-11	ELECT	10MF	20%	16V
C405	1-126-157-11	ELECT	10MF	20%	16V
C406	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C407	1-126-157-11	ELECT	10MF	20%	16V
C408	1-126-157-11	ELECT	10MF	20%	16V
C409	1-124-257-00	ELECT	2.2MF	20%	35V
C410	1-124-257-00	ELECT	2.2MF	20%	35V
C411	1-163-100-00	CERAMIC CHIP	20PF	5%	50V
C412	1-163-100-00	CERAMIC CHIP	20PF	5%	50V
C417	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C418	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C419	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C420	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C421	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C422	1-163-077-00	CERAMIC CHIP	0.1MF		50V

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

Ref.No.	Part No.	Description			Remark
C423	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C424	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C425	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C426	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C427	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C428	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C429	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C430	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C431	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C432	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C433	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C434	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C435	1-126-160-11	ELECT	1MF	20%	50V
C436	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C437	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C440	1-124-472-11	ELECT	470MF		10V
C441	1-124-233-91	ELECT	10MF		16V
C442	1-124-233-91	ELECT	10MF		16V
C443	1-163-174-91	CERAMIC	51PF		
C444	1-163-174-91	CERAMIC	51PF		
C445	1-163-174-91	CERAMIC	51PF		
C446	1-163-174-91	CERAMIC	51PF		
C447	1-124-233-91	ELECT	10MF		16V
C448	- - -	CERAMIC	100MF		
C449	- - -	CERAMIC	100MF		
		CONNECTOR			
CN301	*1-560-890-00	PIN, CONNECTOR 2P			
CN302	1-506-469-11	PIN, CONNECTOR 4P			
CN303	- - -	PIN, CONNECTOR 15P			
CN304	1-568-271-11	PIN, CONNECTOR 5P			
CN305	1-568-276-11	PIN, CONNECTOR 10P			
CN306	- - -	PIN, CONNECTOR 11P			
CN307	1-568-273-11	PIN, CONNECTOR 7P			
CN308	1-506-469-11	PIN, CONNECTOR 4P			
		DIODE			
D301	8-719-112-70	DIODE RD11ES-T1B			
D302	8-719-921-20	DIODE 1SS119			
		IC			
IC301	8-752-032-27	IC CXA1114P			
IC302	8-752-032-27	IC CXA1114P			
IC303	8-759-100-96	IC UPC4558G2			
IC304	8-759-100-96	IC UPC4558G2			
IC305	8-759-100-96	IC UPC4558G2			
IC306	8-759-100-96	IC UPC4558G2			
IC307	8-759-100-96	IC UPC4558G2			
IC308	8-759-100-96	IC UPC4558G2			
IC309	8-759-100-96	IC UPC4558G2			
IC310	8-759-100-96	IC UPC4558G2			
IC311	8-759-201-01	IC TC4066BF			
IC312	8-759-201-01	IC TC4066BF			
IC313	8-759-201-01	IC TC4066BF			
IC314	8-759-201-01	IC TC4066BF			
IC315	8-759-201-01	IC TC4066BF			
IC316	8-759-201-01	IC TC4066BF			
IC317	8-759-201-01	IC TC4066BF			
IC318	8-759-201-01	IC TC4066BF			

Ref.No.	Part No.	Description			Remark
IC319	8-759-710-09	IC NJM2233AM(T1)			
IC320	8-759-710-09	IC NJM2233AM(T1)			
IC321	8-759-710-09	IC NJM2233AM(T1)			
IC322	8-759-710-09	IC NJM2233AM(T1)			
IC323	8-759-710-09	IC NJM2233AM(T1)			
IC324	8-759-710-09	IC NJM2233AM(T1)			
IC325	8-759-710-09	IC NJM2233AM(T1)			
IC326	8-759-710-07	IC NJM2234M			
IC327	8-759-200-82	IC TC4069UBF			
IC328	8-759-634-69	IC M52470P			
IC329	8-759-100-96	IC UPC4558G2			
IC330	8-759-604-29	IC M5F7805			
		JACK			
J301	1-563-524-32	JACK, PIN 6P			
J302	1-563-524-32	JACK, PIN 6P			
J303	1-565-352-21	JACK, PIN 2P			
J304	1-565-352-21	JACK, PIN 2P			
J305	1-563-524-32	JACK, PIN 6P			
J306	1-565-352-21	JACK, PIN 2P			
J308	1-565-352-21	JACK, PIN 2P			
		TRANSISTOR			
Q301	8-729-201-79	TRANSISTOR 2SD1406-GR			
Q302	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q303	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q304	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q305	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q306	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q307	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q308	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q309	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q310	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q311	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q312	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q313	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q314	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q315	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
		RESISTOR			
R301	⚠1-212-942-00	FUSIBLE	2.2	5%	1/2W F
R302	⚠ - - -	FUSIBLE	100	5%	1/4W F
R303	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R304	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R305	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R306	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R307	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R308	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R309	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R310	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R311	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R312	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R313	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R314	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R315	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R316	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R317	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R318	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R319	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R320	1-216-089-91	METAL GLAZE	47K	5%	1/10W

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

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

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Ref.No.	Part No.	Description			Remark
R321	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R322	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R323	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R324	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R325	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R326	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R327	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R328	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R329	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R330	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R331	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R332	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R333	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R334	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R335	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R336	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R337	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R338	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R339	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R340	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R341	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R342	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R343	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R344	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R345	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R346	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R347	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R348	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R349	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R350	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R352	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R354	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R355	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R356	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R357	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R358	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R359	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R360	1-216-025-00	METAL GLAZE	100	5%	1/10W
R361	1-216-025-00	METAL GLAZE	100	5%	1/10W
R362	1-216-025-00	METAL GLAZE	100	5%	1/10W
R363	1-216-025-00	METAL GLAZE	100	5%	1/10W
R364	1-216-025-00	METAL GLAZE	100	5%	1/10W
R365	1-216-025-00	METAL GLAZE	100	5%	1/10W
R366	1-216-025-00	METAL GLAZE	100	5%	1/10W
R367	1-216-025-00	METAL GLAZE	100	5%	1/10W
R368	1-216-025-00	METAL GLAZE	100	5%	1/10W
R369	1-216-025-00	METAL GLAZE	100	5%	1/10W
R370	1-216-025-00	METAL GLAZE	100	5%	1/10W
R371	1-216-025-00	METAL GLAZE	100	5%	1/10W
R372	1-216-025-00	METAL GLAZE	100	5%	1/10W
R373	1-216-025-00	METAL GLAZE	100	5%	1/10W
R374	1-216-025-00	METAL GLAZE	100	5%	1/10W
R375	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R376	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R377	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R378	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R379	1-216-094-00	METAL GLAZE	75K	5%	1/10W
R380	1-216-094-00	METAL GLAZE	75K	5%	1/10W
R381	1-216-094-00	METAL GLAZE	75K	5%	1/10W
R382	1-216-094-00	METAL GLAZE	75K	5%	1/10W
R383	1-216-084-00	METAL GLAZE	30K	5%	1/10W
R384	1-216-084-00	METAL GLAZE	30K	5%	1/10W
R385	1-216-084-00	METAL GLAZE	30K	5%	1/10W
R386	1-216-084-00	METAL GLAZE	30K	5%	1/10W
R387	1-216-084-00	METAL GLAZE	30K	5%	1/10W
R388	1-216-084-00	METAL GLAZE	30K	5%	1/10W
R389	1-216-084-00	METAL GLAZE	30K	5%	1/10W
R390	1-216-084-00	METAL GLAZE	30K	5%	1/10W
R391	1-216-025-00	METAL GLAZE	100	5%	1/10W
R392	1-216-025-00	METAL GLAZE	100	5%	1/10W
R393	1-216-025-00	METAL GLAZE	100	5%	1/10W
R394	1-216-025-00	METAL GLAZE	100	5%	1/10W
R395	1-216-094-00	METAL GLAZE	75K	5%	1/10W
R396	1-216-094-00	METAL GLAZE	75K	5%	1/10W
R397	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R398	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R399	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R400	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R401	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R402	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R403	1-216-084-00	METAL GLAZE	30K	5%	1/10W
R404	1-216-084-00	METAL GLAZE	30K	5%	1/10W
R405	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R406	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R407	1-216-084-00	METAL GLAZE	30K	5%	1/10W
R408	1-216-084-00	METAL GLAZE	30K	5%	1/10W
R409	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R410	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R411	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R412	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R413	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R414	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R415	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R416	1-216-296-00	METAL GLAZE	0	5%	1/10W
R417	1-216-296-00	METAL GLAZE	0	5%	1/10W
R418	1-216-043-00	METAL GLAZE	560	5%	1/10W
R419	1-216-043-00	METAL GLAZE	560	5%	1/10W
R420	1-216-043-00	METAL GLAZE	560	5%	1/10W
R421	1-216-043-00	METAL GLAZE	560	5%	1/10W
R422	1-216-043-00	METAL GLAZE	560	5%	1/10W
R423	1-216-043-00	METAL GLAZE	560	5%	1/10W
R424	1-216-043-00	METAL GLAZE	560	5%	1/10W
R425	1-216-043-00	METAL GLAZE	560	5%	1/10W
R426	1-216-043-00	METAL GLAZE	560	5%	1/10W
R427	1-216-043-00	METAL GLAZE	560	5%	1/10W
R428	1-216-043-00	METAL GLAZE	560	5%	1/10W
R429	1-216-043-00	METAL GLAZE	560	5%	1/10W
R430	1-216-043-00	METAL GLAZE	560	5%	1/10W
R431	1-216-043-00	METAL GLAZE	560	5%	1/10W
R432	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R433	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R434	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R435	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R436	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R437	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R438	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R439	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R440	1-216-089-00	METAL GLAZE	47K	5%	1/10W

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

Ref.No.	Part No.	Description			Remark
R441	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R442	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R443	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R444	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R445	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R446	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R447	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R448	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R449	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R450	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R451	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R452	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R453	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R454	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R455	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R456	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R457	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R458	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R459	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R460	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R461	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R462	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R463	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R464	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R465	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R466	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R467	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R468	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R469	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R470	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R471	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R472	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R473	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R474	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R475	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R476	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R477	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R480	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R485	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R487	1-216-033-00	METAL GLAZE	220	5%	1/10W
R488	1-216-056-00	METAL GLAZE	2K	5%	1/10W
R493	1-216-073-00	METAL GLAZE	10K	5%	1/10W

****

*1-634-704-12 FD-41 BOARD
****

DIODE

D141 8-719-812-42 DIODE TLR124

SWITCH

S137 1-571-977-21 SWITCH, TACTIL (FRONT)

*1-634-705-12 PD-30 BOARD
****

DIODE

D142 8-719-812-42 DIODE TLR124 (STANDBY)

IC

IC105 8-741-138-70 IC BX-1387

****

*1-636-206-11 CE-11 BOARD
****

CONNECTOR

CN001 1-506-487-11 PIN, CONNECTOR 8P
CN002 1-561-534-41 SOCKET 21P

DIODE

D001 8-719-108-12 DIODE RD9.1EW
D002 8-719-108-12 DIODE RD9.1EW
D003 8-719-108-12 DIODE RD9.1EW
D004 8-719-108-12 DIODE RD9.1EW

RESISTORS

R001	1-247-802-11	CARBON	62	5%	1/4W
R002	1-249-405-11	CARBON	100	5%	1/4W
R003	1-247-802-11	CARBON	62	5%	1/4W
R004	1-249-405-11	CARBON	100	5%	1/4W

SWITCHES

S001 1-571-640-11 SWITCH, SLIDE (VIDEO/S VIDEO)

****

MISCELLANEOUS
****

⚠1-526-882-00 OUTLET, AC
S001 ⚠1-551-188-XX CORD, POWER
⚠1-554-875-11 SWITCH, PUSH (AC POWER) (1 KEY)
T001 ⚠1-571-877-11 SWITCH, PUSH (AC POWER)
⚠1-450-150-11 TRANSFORMER, POWER

****

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

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

Ref.No.	Part No.	Description	Remark

ACCESSORIES AND PACKING MATERIALS
****

	1-465-462-11	REMOTE COMMANDER (RMT-900)
	*2-119-121-01	CUSHION (LOWER)
	*2-119-122-01	CUSHION (UPPER)
	*2-119-207-21	INDIVIDUAL CARTON
	2-186-020-01	LABEL
	3-751-567-41	MANUAL, INSTRUCTION
	3-751-567-51	MANUAL, INSTRUCTION
	3-751-598-11	LIST
	3-751-598-51	LIST

****

HARDWARE LIST
****

SCREW

	7-682-660-09	SCREW +PS 4X6
	7-685-135-19	SCREW +P 2.6X10 TYPE2 NON-SLIT
	7-685-648-79	SCREW +BVTP 3X12 TYPE 2
	7-682-547-04	SCREW +BVTT 3X6 (S)
	7-682-547-09	SCREW +BVTT 3X6 (S)

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

9-972-931-21

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Personal Video Group

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