

DVMC-DA2

SERVICE MANUAL

*US Model
Canadian Model*



SPECIFICATIONS

Power requirements

DC IN 6V jack accepts the AC-MZ60A AC power adapter (supplied), AC 120 V, 60 Hz

Power consumption

AC 120 V, 60 Hz, 5.1 W (max., AC power adapter)

Operating temperature

10°C to 35°C (50°F to 95°F)

Operating humidity

40 % to 80 %

Storage temperature

-20°C to 60°C (-4°F to 140°F)

Storage humidity

20 % to 80 %

Dimensions (approx.)

124 × 44 × 90.5 mm (5 × 1³/₄ × 3⁵/₈ inches)
(w/h/d, excluding projections)

Mass (approx.)

300 g (10 oz) (unit only)

Input/output connector

S VIDEO IN: Mini DIN 4-pin (1)

S VIDEO OUT: Mini DIN 4-pin (1)

VIDEO IN: RCA pin (1)

VIDEO OUT: RCA pin (1)

AUDIO IN: RCA pin (2): L, R

AUDIO OUT: RCA pin (2): L, R

● DV IN/OUT : 4-pin S100 (100 Mbps) (1)

● LANC : Stereo mini-minijack (1)

Supplied accessories

AC power adapter (AC-MZ60A)

DV connecting cable

AV connecting cable

S VIDEO connecting cable

LANC connecting cable

Operating instructions

Warranty card

Important safeguard

Design and specifications are subject to change without notice.

MEDIA CONVERTER

SONY®

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SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK \triangle OR DOTTED LINE WITH MARK \triangle 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.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE \triangle SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

This section is extracted from instruction manual (3-868-211-11).

Overview

The DVMC-DA2 is a media converter unit which converts analog video signals to digital video signals and vice versa.

Converting pictures and sound from 8 mm/VHS format to DV format and vice versa (pages 8 - 10)

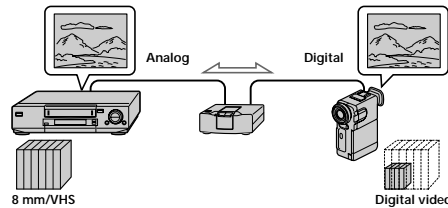
You can convert analog video on Hi8, 8 mm, or VHS format cassettes to digital video (DV) by connecting both analog and digital video units via the media converter. Component video and MPEG data are not compatible.

Since pictures and sound are recorded on the DV unit in digital format, little or no picture and sound quality are lost.

You can also convert digital video to analog video.

Note

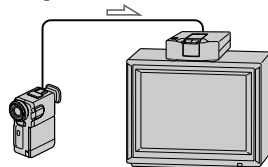
You cannot record video which includes copyright protection signals. (pages 22-23)



Viewing pictures from the DV unit (page 11 - 12)

You can enjoy high quality digital video when you connect a DV unit to a TV via the media converter using the DV connecting cable.

In this case, you do not have to change the connection between your TV and the other analog video unit.



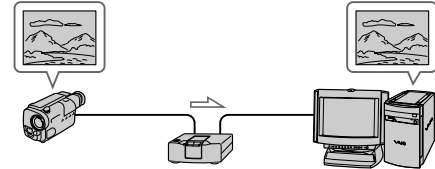
4^{US}

Capturing images from an analog video unit using a PC (page 13-15)

You can capture images from an analog video unit connected to your PC via the media converter using the DV (i.LINK) connector.

You can operate the analog video unit from the PC by connecting to the LANC (Local Application Control Bus System) connectors of the media converter and the analog video unit. (Compatible software is required for respective operations in the PC.)

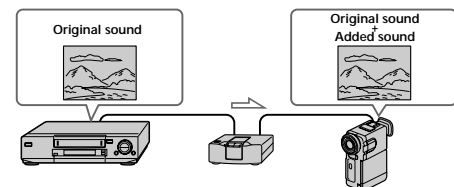
In this case, you can edit a movie or add titles using your PC. You can also print out the captured images using your PC printer instead of a video printer.



Selecting the audio mode when recording to the DV unit (page 9)

You can add messages or background music after recording.

When you record to the DV unit from an analog video unit, you can select 16-bit audio mode for higher quality, or 12-bit audio mode for adding messages or background music (post sound recording).



Listening to the audio with the desired mixing rate (page 12)

When playing back video recorded in 12-bit audio mode on a DV unit via the media converter, you can listen to: the recorded message and/or background music only (post sound recording), the original audio, or the combined audio of both tracks with the desired mixing rate (5 steps).

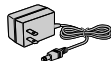
5^{US}

Checking the supplied parts and accessories

Check to make sure you have received the following items in the carton.

If something is missing, contact your Sony dealer or service facility.

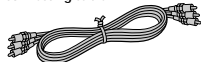
AC power adapter (AC-MZ60A)



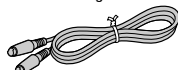
DV connecting cable



AV connecting cable



S VIDEO connecting cable



LANC connecting cable



Operating instructions

Warranty card

Important safeguard

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Before using the media converter

Notes on the connections

- Connect the AC power adapter (supplied) to the DC IN 6V connector on the unit. Do not connect the power source until all other connections are complete.
- If you connect your TV to a VCR via the media converter, you can watch VCR pictures whenever the media converter is not turned on (with the AC power adapter connected).
- Be sure to insert the connecting cable squarely into the connector/jack to avoid malfunctions.
- Keep metal objects away from the connector pins to avoid short circuits.
- If your PC has a 6-pin i.LINK (DV) connector, the converting cable (4-pin↔6-pin) VMC-IL4615, IL4635 (not supplied) is required.

If your analog video unit or TV has an S VIDEO input/output connector

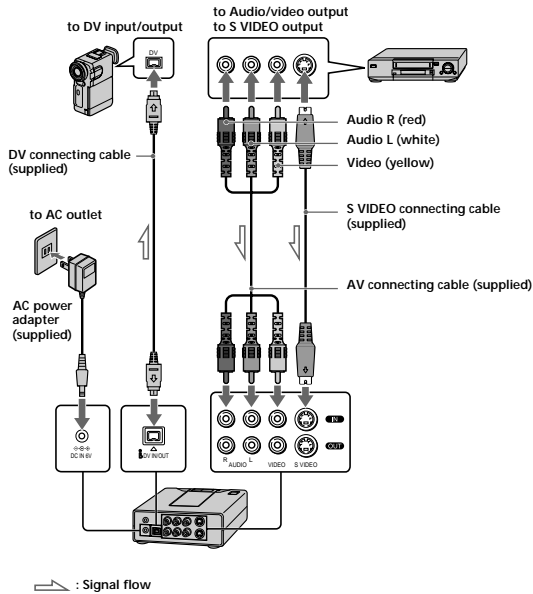
For higher picture quality, use the supplied S VIDEO connecting cable to connect to the S VIDEO IN/OUT connector of the media converter rather than the VIDEO IN/OUT connector.

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Using with an analog video unit and a digital video unit

Connecting an analog video unit and a DV unit via the media converter

Example: Converting analog video to digital video



Note
Depending on the condition of the analog video signal input to the media converter, some DV units may not output the analog video signal correctly when the digital video signal is output from the media converter. The video recorded on the DV unit is not affected. When previewing a recorded VIDEO, we recommend connecting the input connector of the TV to the VIDEO OUT or S VIDEO OUT of the media converter.

If you want to convert digital video to analog video

Make the connection as follows:

- Connect the DV output connector of the DV unit to the DV IN/OUT connector of the media converter using the supplied DV connecting cable.
- Connect the input connectors of the analog video unit to the AUDIO/VIDEO OUT connectors of the media converter using the supplied AV connecting cable.

Converting analog video to digital video

You can convert and record pictures and sound from an analog video unit to a DV unit by connecting both units via the media converter.

- 1 Press POWER to turn on the media converter.
- 2 Press ANALOG IN.
The key indicator lights up.
- 3 Select the audio mode.
Each time you press and hold ANALOG IN for a few seconds, the audio mode changes as follows.
16-bit mode (high quality sound): The key indicator lights up in red.
12-bit mode (post sound recording): The key indicator lights up in green.
- 4 Pause playback on the analog video unit slightly ahead of the point from which you want to start recording.
- 5 Pause recording on the DV unit at the point from which you want to start recording.
For details on how to record, refer to the instruction manual of your DV unit.
(If you use the SONY DCR-PC1/PC7/PC10, the remote controller is necessary for recording operations.)
- 6 Start playback on the analog video unit, then start recording on the DV unit.
The picture and sound played back on the analog video unit are recorded on the DV unit.

continued

8-US

9-US

Using with an analog video unit and a digital video unit (continued)

Converting digital video to analog video

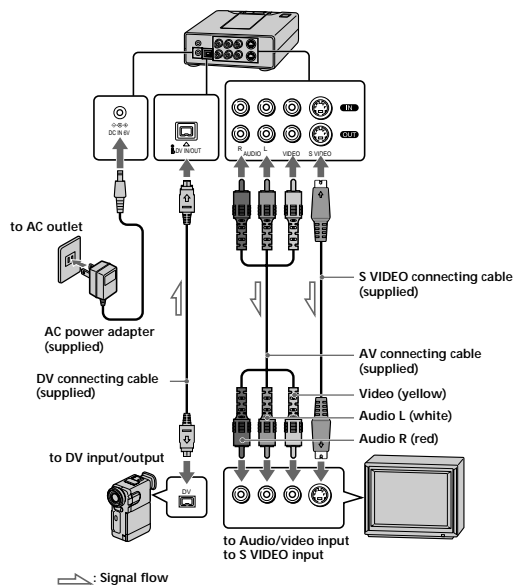
You can convert and record pictures and sound from a DV unit to an analog video unit by connecting both units via the media converter.

For the connection, refer to "If you want to convert digital video to analog video" on page 9.

- 1 Press POWER to turn on the media converter.
- 2 Press DV IN.
The key indicator lights up.
- 3 Pause playback on the DV unit slightly ahead of the point from which you want to start recording.
- 4 Pause recording on the analog video unit at the point from which you want to start recording.
- 5 Start playback on the DV unit, then start recording on the analog video unit.
The picture and sound played back on the DV unit are recorded on the analog video unit.

Viewing digital video on your TV

Connecting a DV unit and a TV via the media converter



continued

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11-US

Viewing digital video on your TV (continued)

Tip
TVs which conform to the ID-1 system automatically switch to wide mode when the appropriate signal is received.

Viewing digital video on your TV

You can enjoy high quality digital video when you connect the DV unit to the TV via the media converter.

- 1 Press POWER to turn on the media converter.
- 2 Press DV IN.
The key indicator lights up.
- 3 Start playback on the DV unit.
Pictures played back on the DV unit appear on the TV screen.

Playing back the audio while changing the mixing rate

When playing back video recorded in 12-bit audio mode on a DV unit via the media converter, you can listen to: the recorded message and/or background music only (post sound recording), the original audio, or the combined audio of both tracks with the desired mixing rate (5 steps).

Press and while holding DV IN, press ANALOG IN.

Each time you press ANALOG IN, the mixing rate changes as follows:

| Original audio | Added audio |
|----------------|-------------|
| 100% | 0% |
| 75% | 25% |
| 50% | 50% |
| 25% | 75% |
| 0% | 100% |

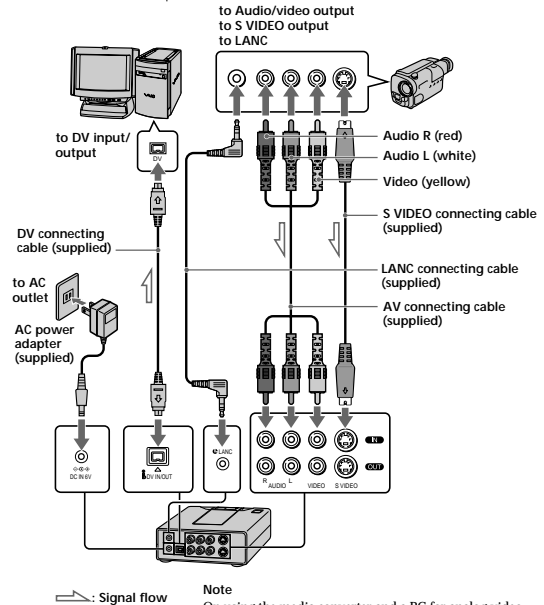
Note
When the power on the media converter is turned off, the mixing rate is reset to the default setting (original audio: 100%, added audio: 0%).

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Using with an analog video unit and a PC

Connecting a PC and an analog video unit via the media converter

Example: Capturing images from an analog video unit using a PC.



Note
On using the media converter and a PC for analog video image editing, the PC must have DV image processing software which is capable of video image capturing and re-recording with the analog video equipment through the media converter.

continued

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Using with an analog video unit and a PC (continued)

Tip
The DV still image capture card kit DVBK-CW200 for PC/AT compatible or DV still image capture board kit DVBK-2000 (not supplied) can be used. For details, refer to the operating instructions of DV still image capture card kit or DV still image capture board kit.

^{*1} For VAIO, DVgate Motion Version 1.2 or later
However, because the LANC connection cannot transfer the track number data (tape position of the DV unit) to the PC, image capturing by setting IN/OUT of the DVgate Motion is impossible. For manual control, select "Settings" - "Select Device Controller" - "Do not control DV device with DVgate Motion".

^{*2} For VAIO, DVgate Motion Version 1.4.2 or later
Select "Help" - "About DVgate Motion..." of DVgate Motion for checking the software version.

Tip
• For further information of LANC, see page 24.
• DVgate Motion is the software for the DV video and audio import/export bundled with VAIO.

If you want to convert captured images from your PC to analog video

Make the connection as follows:

- Connect the DV output connector of the PC to the DV IN/OUT connector of the media converter using the supplied DV connecting cable.
- Connect the input connectors of the analog video unit to the AUDIO/VIDEO OUT connectors of the media converter using the supplied AV connecting cable.

Capturing images from an analog video unit using a PC

You can capture the images from an analog video unit using a PC which is connected via the media converter.^{(*)1}

Also, you can operate the analog video unit from the PC by the LANC connection.^{(*)2}

Compatible software is required for respective operations in the PC.

- 1 Press POWER to turn on the media converter.
- 2 Press ANALOG IN.
The key indicator lights up.
- 3 Start playback on the analog video unit slightly ahead of the point from which you want to start capturing images.
You can operate the analog video unit from the PC by the LANC connection. But some functions, depending on the analog video unit, may not work.

- 4 Start capturing procedures on your PC.
The operation procedures depend on your PC and the software which you use.

For details on how to capture images and how to operate the analog video unit from the PC, refer to the instruction manual of your PC and software, or ask your PC and software makers.

Note
You cannot operate the media converter from a LANC compatible unit, for example a remote commander or remote tripod.

Recording images from a PC to analog video

- 1 Press POWER to turn on the media converter.
- 2 Press DV IN.
The key indicator lights up.
- 3 Start recording on the analog video unit.
You can operate the analog video unit from the PC by the LANC connection. But some functions, depending on the analog video unit, may not work.
- 4 Start outputting procedures on your PC.
The operation procedures depend on your PC and the software which you use.

For details on how to capture images and how to operate the analog video unit from the PC, refer to the instruction manual of your PC and software, or ask your PC and software makers.

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Precautions

Use

- Operate the product only with the supplied AC power adapter. If you use a different AC power adapter, it may cause a malfunction.



Unified polarity plug

- Should any liquid or solid object fall into the cabinet, unplug the product and have it checked by qualified personnel before operating it further.
- Always turn the product off when not in use. Unplug the product from the wall outlet if you are not going to use it for several days or more. To disconnect the cord, pull it out by the plug. Never pull the cord itself.
- Do not overload wall outlets, extension cords, or convenience receptacles beyond their capacity, since this can result in fire or electric shock.
- Do not use attachments not recommended by the manufacturer, as they may cause hazards.
- Do not touch the AC power adapter with wet hands. If you fail to observe this, it may cause electric shock.
- Do not drop or give a mechanical shock to the product.

Installation

- To prevent internal heat build-up, do not block the ventilation openings.
- Avoid operating the product at temperatures below 5 °C (41 °F).
- Do not subject the product to high temperature or direct sunlight. If you do not observe the above instructions, the product may become deformed.
- Do not place the product in locations where it is wet, humid, dusty, smoky, or steamy. Do not use this product near or around water. It may cause fire or electric shock. Especially, do not use the product in the bathroom.
- If the product is transported directly from a cold to a warm location, or if the room temperature has changed suddenly, moisture may condense in the unit. If this happens, let the moisture evaporate before using the product.
- Do not place the product on an unstable cart, stand, table, or shelf. The product may fall, causing serious injury to a child or an adult, and serious damage to the product.
- Do not allow anything to rest on or roll over the power cord, and do not place the product where the power cord is subject to wear or abuse.

Others

- Unplug the product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - When the power cord or plug is damaged or frayed.
 - If liquid has been spilled into the product.
 - If the product has been exposed to rain or water.
 - If the product has been subject to excessive shock by being dropped, or the cabinet has been damaged.
 - If the product does not operate normally when following the operating instructions. Adjust only those controls that are specified in the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
 - When the product exhibits a distinct change in performance — this indicates a need for service.
- Do not disassemble or modify the product. It may cause fire or electric shock. Have the product checked and repaired at your Sony dealer or local authorized Sony service facility.
- Do not attempt to service the product yourself since opening the cabinet may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- When replacement parts are required, be sure the service technician certifies in writing that he has used replacement parts specified by the manufacturer that have the same characteristics as the original parts. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- Upon completion of any service or repairs to the product, ask the service technician to perform routine safety checks (as specified by the manufacturer) to determine that the product is in safe operating condition, and to so certify.
- Unplug the product from the wall outlet before cleaning. Clean the product with a dry, soft cloth, or a soft cloth slightly moistened with a mild detergent solution. Do not use any type of solvent, such as alcohol or benzene.

16^{US}

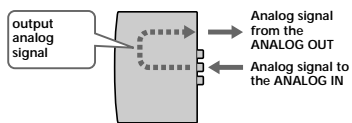
17^{US}

Technical information

Signal flows

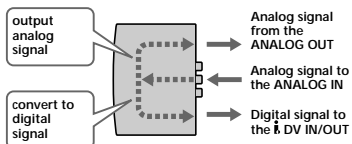
The signal flow of the media converter and the connected unit is illustrated below:

When the media converter is turned off (with the AC power adapter connected)



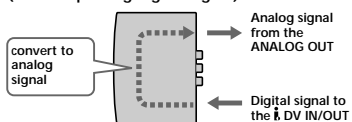
When you connect your TV to a VCR via the media converter, you can watch VCR pictures whenever the media converter is not turned on.

When the media converter is turned on (When inputting analog signals)



The signals are output from both the DV IN/OUT and ANALOG OUT connectors.

When the media converter is turned on (When inputting digital signal)



continued

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Technical information (continued)

Output/input of analog video signals

Depending on which connection is used, VIDEO IN or S VIDEO IN, the output signal changes as follows.

The input signal is coming from only the VIDEO IN connector

→ The signal is output from the VIDEO OUT connector, but not from the S VIDEO OUT connector.

The input signal is coming from only the S VIDEO IN connector

→ The signal is output both from the VIDEO OUT and S VIDEO OUT connectors.

The input signal is coming from both the VIDEO IN and S VIDEO IN connectors

→ The signal is output both from the VIDEO OUT and S VIDEO OUT connectors.

Notes

- When connecting to only the VIDEO IN connector, the signal cannot be output to the S VIDEO OUT connector.
- When connecting both the S VIDEO IN and VIDEO IN connectors, the S VIDEO signal is automatically selected for converting the digital video signal regardless signal type.
- For higher quality pictures, we recommend connecting both the S VIDEO IN and S VIDEO OUT connectors.

Copyright precautions

On recording

When you play back video which includes copyright protection signals and the playback signals are input to the media converter, the PROTECT indicator on the media converter lights up. In this case, You cannot record or capture the video output from the media converter.

ID-2 system

This copyright protection system is used for the analog connection. The ID-2 system is added to the ID-1 system.

CGMS-D system

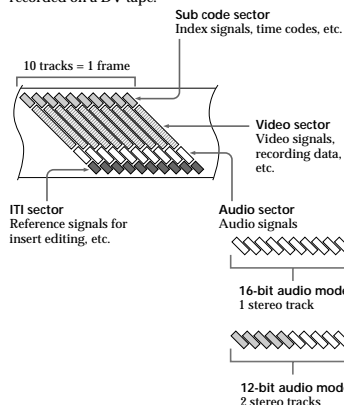
This copyright protection system is used for the digital connection.

Macrovision

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering from disassembly is prohibited.

DV recording format

The following figure shows how the signals are recorded on a DV tape.



continued

Technical information (continued)

12-bit/16-bit audio output modes

16-bit mode

The 16-bit mode uses the whole audio area to output one stereo track. The original audio can be output with high quality in this mode. This mode uses 48 kHz sampling frequencies.

12-bit mode

The 12-bit mode consists of two separate stereo tracks – Stereo 1 and 2. This mode uses 32 kHz sampling frequencies. With the DV unit, you can add messages or background music independent from the recorded sound in this mode.

LANC connector

LANC (Local Application Control Bus System) is a system to control other equipment. The data is transported via the LANC connectors, and includes the operation command, such as play, stop, and pause as well as the status of the equipment.

☛ is the label of the LANC.

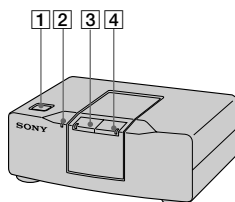
- If your analog video unit has a LANC setting choice of "M" (control side) or "S" (passive side), be sure to select "S".
- To control a video camera recorder with the LANC connection, set the video camera recorder to "VTR" mode.
- When you control an analog video unit from the PC, some functions which the analog video does not have may not be available.

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24^{US}

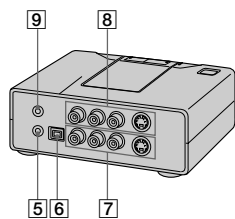
Locating the parts and controls

Front



- 1 POWER button**
Turns on/off the media converter.
- 2 PROTECT indicator**
Lights when the input picture includes a copy protection signal. You cannot record the signal when this indicator is lit.
- 3 ANALOG IN key and indicator**
Select the signal input from the AUDIO/VIDEO/S VIDEO IN as the input signal to the media converter.
- 4 DV IN key and indicator**
Select the signal input from the DV IN/OUT as the input signal to the media converter.

Rear

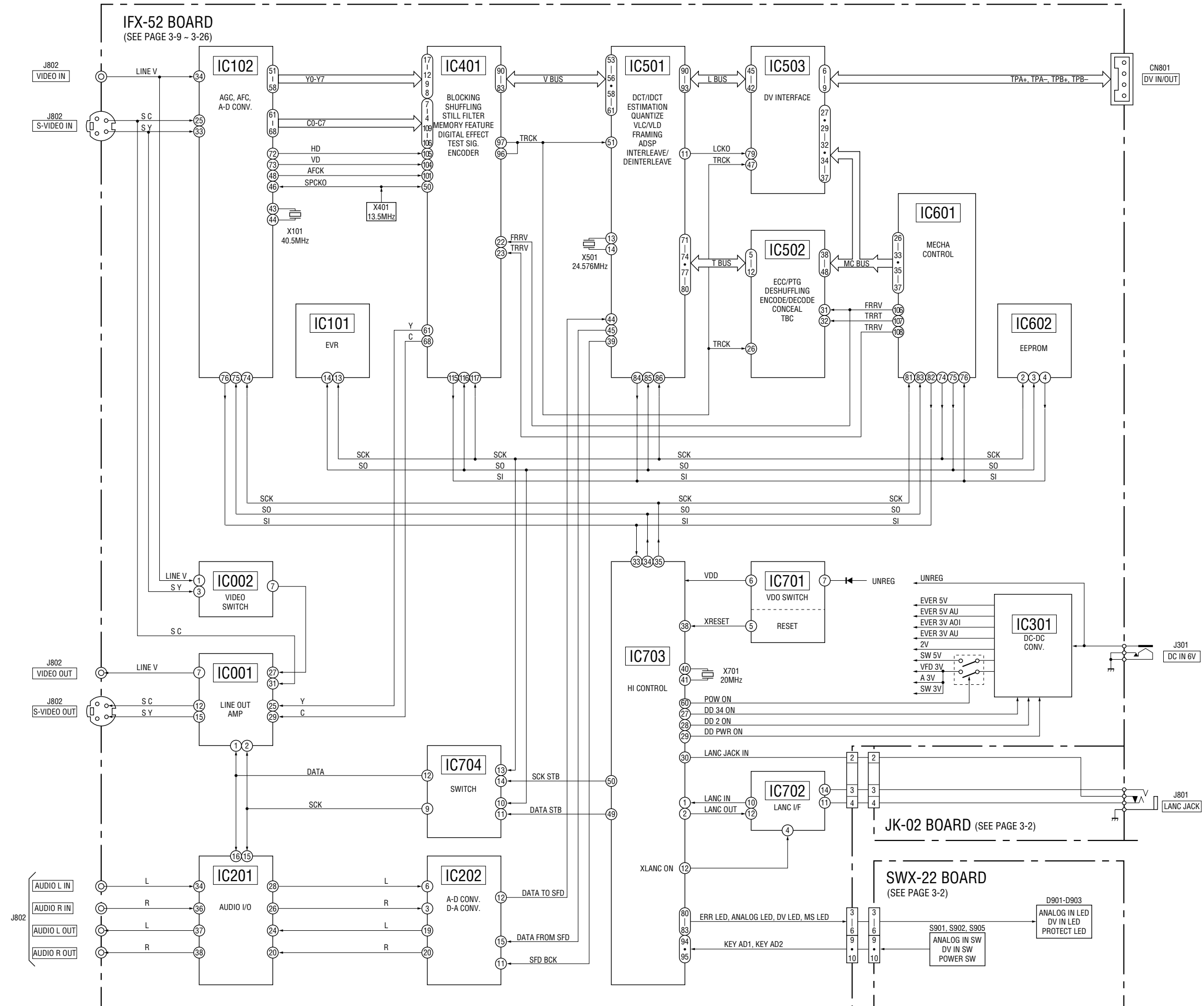


- 5 DC IN 6V connector**
Connect to the supplied AC power adapter.
- 6 DV IN/OUT connector**
Connect to the DV unit.
- 7 AUDIO/VIDEO/S VIDEO OUT connectors**
Connect to the analog video unit or TV.
- 8 AUDIO/VIDEO/S VIDEO IN connectors**
Connect to the analog video unit. When you connect both the S VIDEO IN and VIDEO IN connectors, the S video signal is automatically selected. When connecting to VIDEO IN connectors only, no signals are output from the S VIDEO OUT connector.
- 9 LANC connector**
Connect to a video unit with a LANC connector.

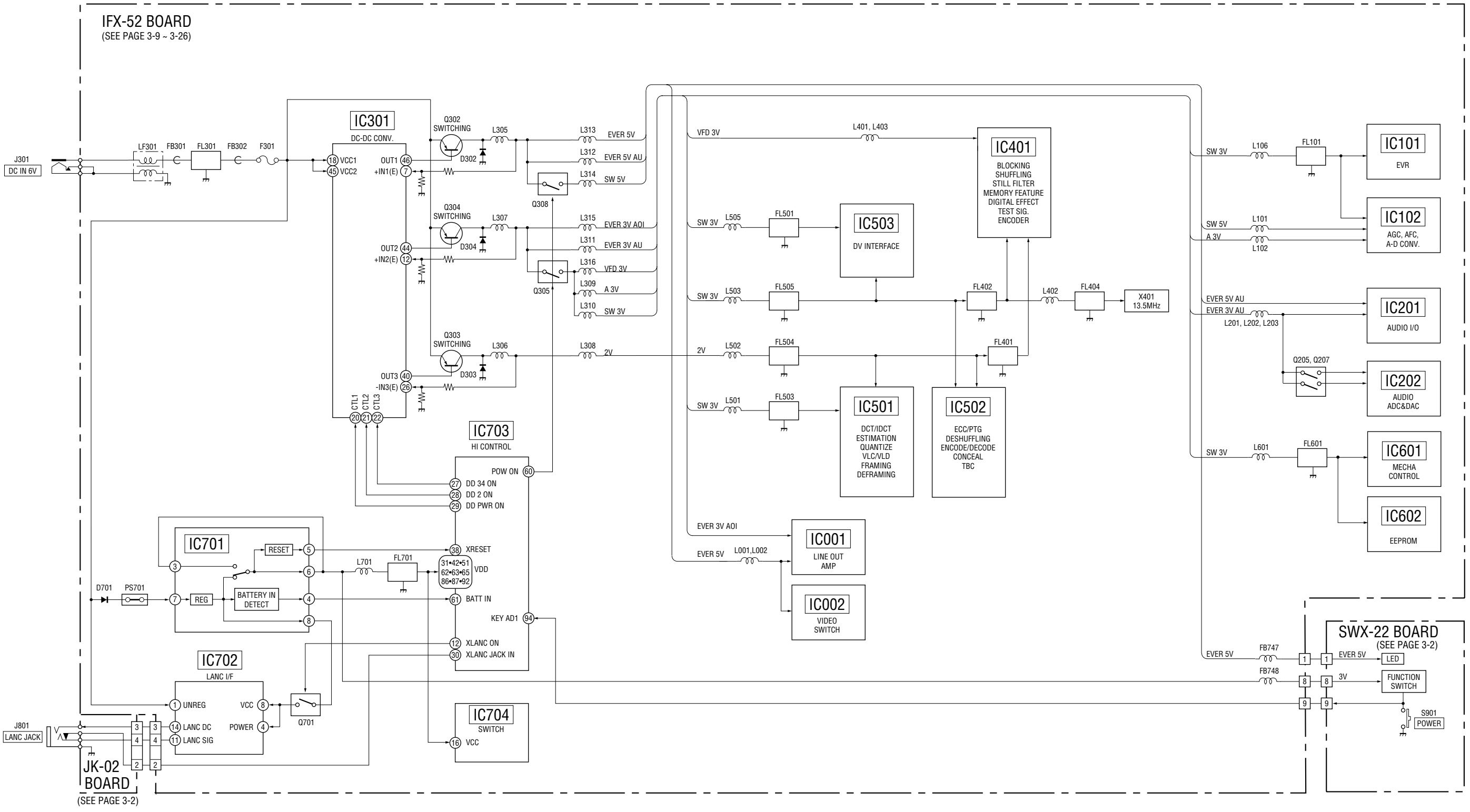
25^{US}

SECTION 2 BLOCK DIAGRAMS

2-1. OVERALL BLOCK DIAGRAM




2-2. POWER BLOCK DIAGRAM

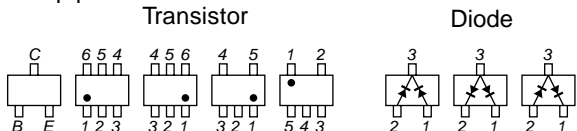


SECTION 3 PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

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

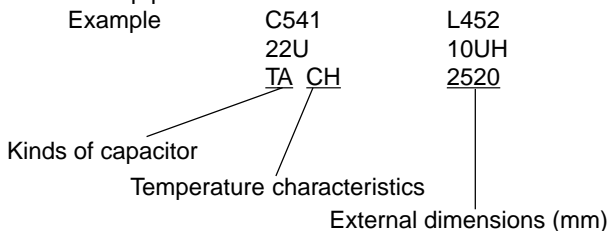
(For printed wiring boards)








- : Pattern from the side which enables seeing.
(The other layers' patterns are not indicated.)
- Through hole is omitted.
- Circled numbers refer to waveforms.
- There are few cases that the part printed on diagram isn't mounted in this model.
- Chip parts.



(For schematic diagrams)

- All capacitors are in μF unless otherwise noted. pF : μF . 50V or less are not indicated except for electrolytics and tantalums.
- Chip resistors are 1/10W unless otherwise noted. $\text{k}\Omega=1000\Omega$, $\text{M}\Omega=1000\text{k}\Omega$.
- Caution when replacing chip parts.
New parts must be attached after removal of chip.
Be careful not to heat the minus side of tantalum capacitor, Because it is damaged by the heat.
- Some chip part will be indicated as follows.

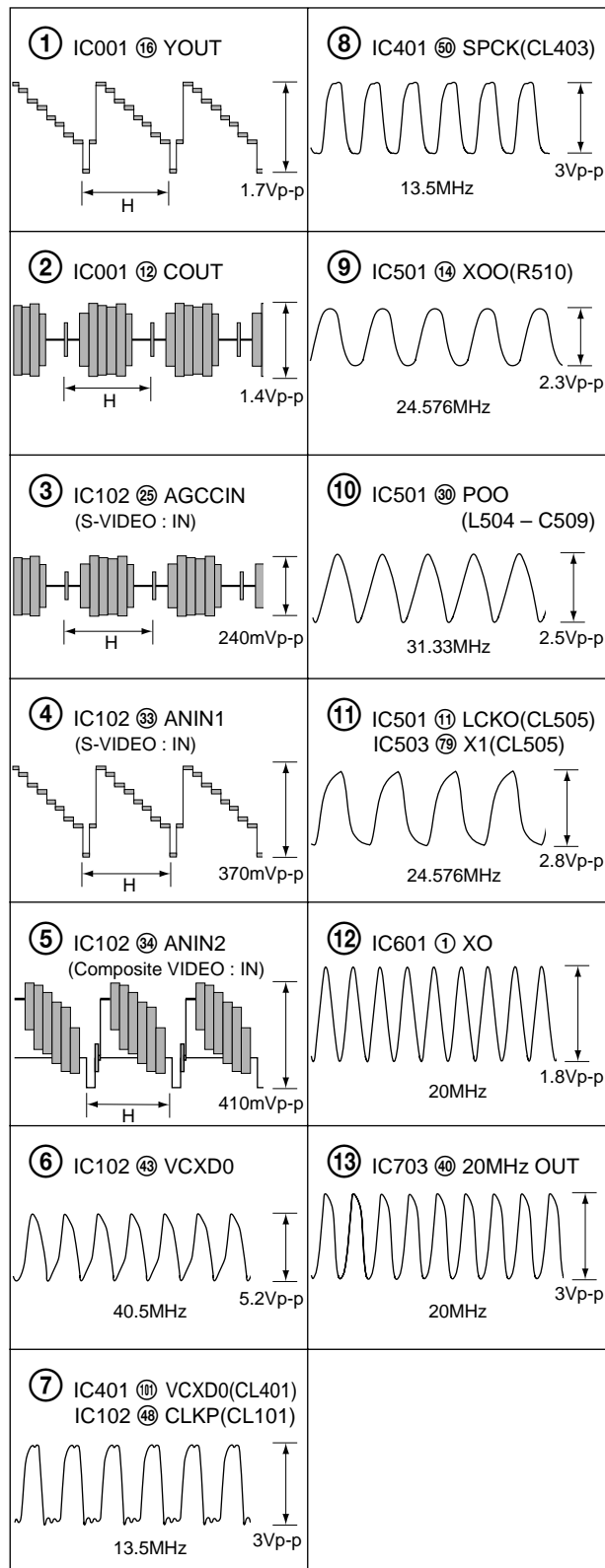


- Constants of resistors, capacitors, ICs and etc with XX indicate that they are not used.
In such cases, the unused circuits may be indicated.
- Parts with \star differ according to the model/destination.
Refer to the mount table for each function.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Signal name
XEDIT \rightarrow $\overline{\text{EDIT}}$ PB/XREC \rightarrow $\overline{\text{PB/REC}}$
- : non flammable resistor
- : fusible resistor
- : panel designation
- : B+ Line
- : B- Line
- : IN/OUT direction of (+,-) B LINE.
- : adjustment for repair.
- Circled numbers refer to waveforms.

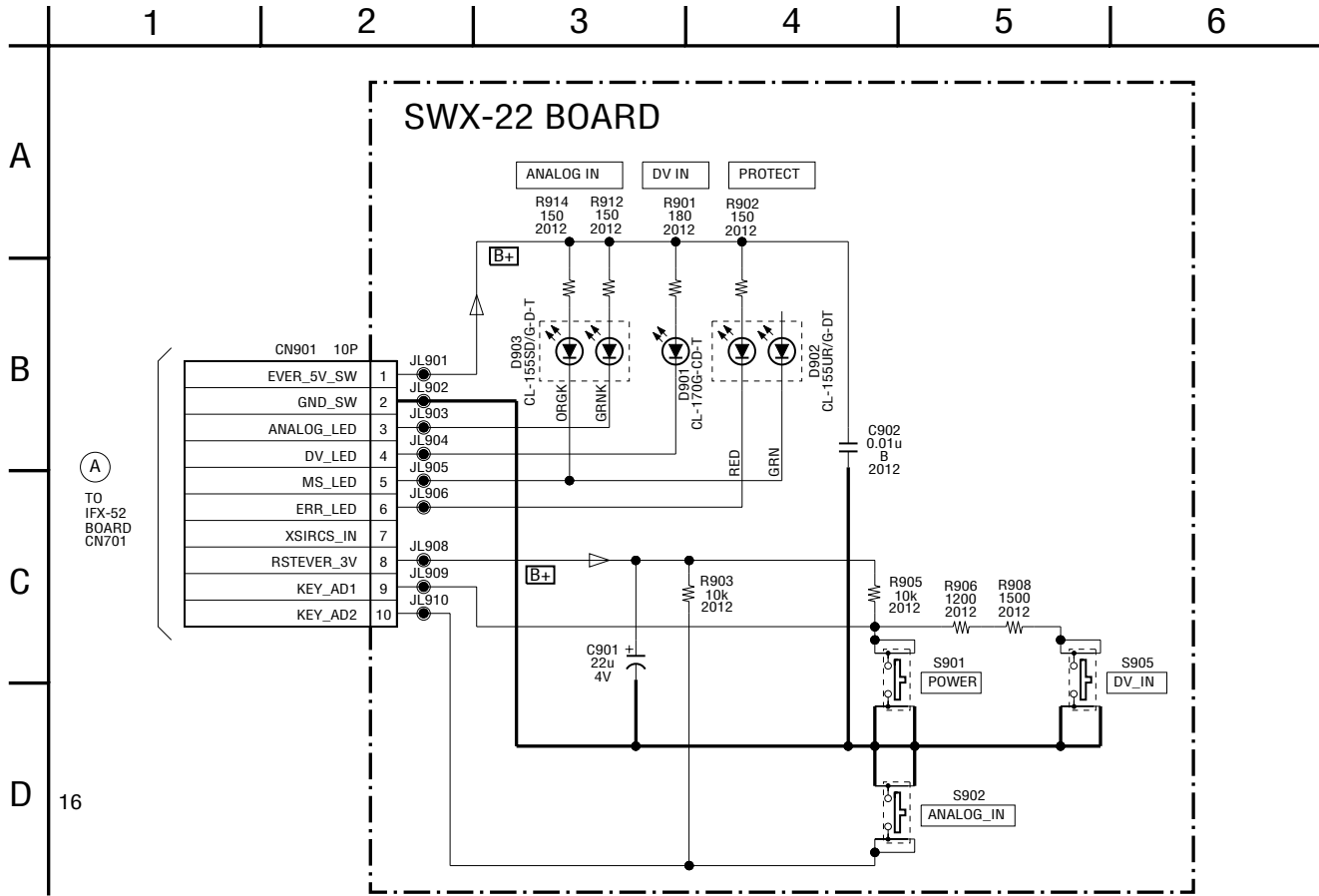
Note :
The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.
Replace only with part number specified.

Note :
Les composants identifiés par une marque \triangle sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

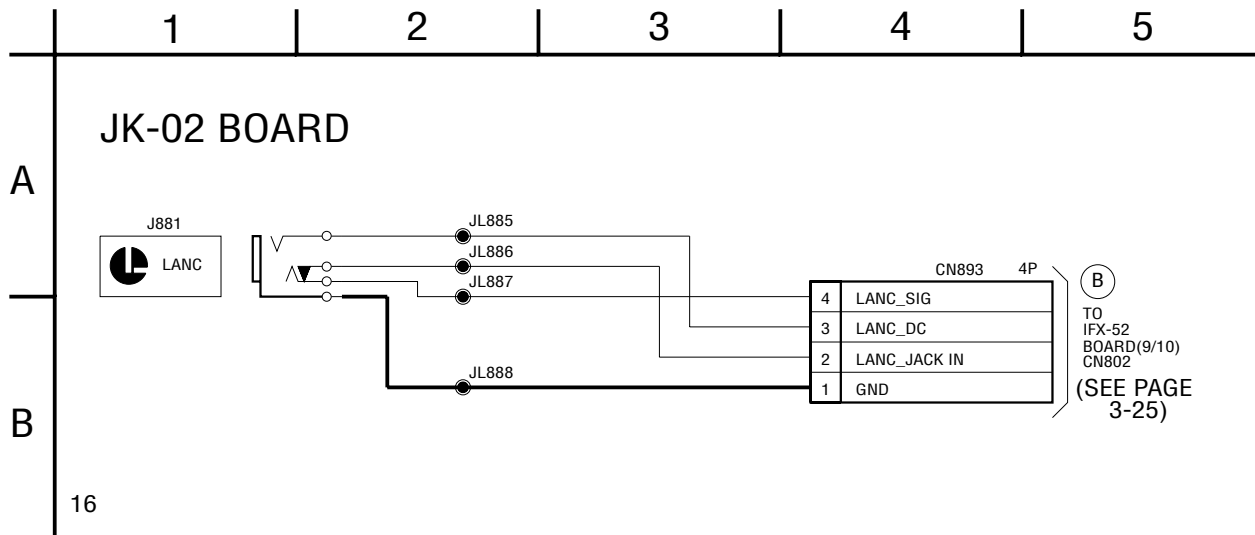
• Waveform



SWX-22 (SWITCH) SCHEMATIC DIAGRAM

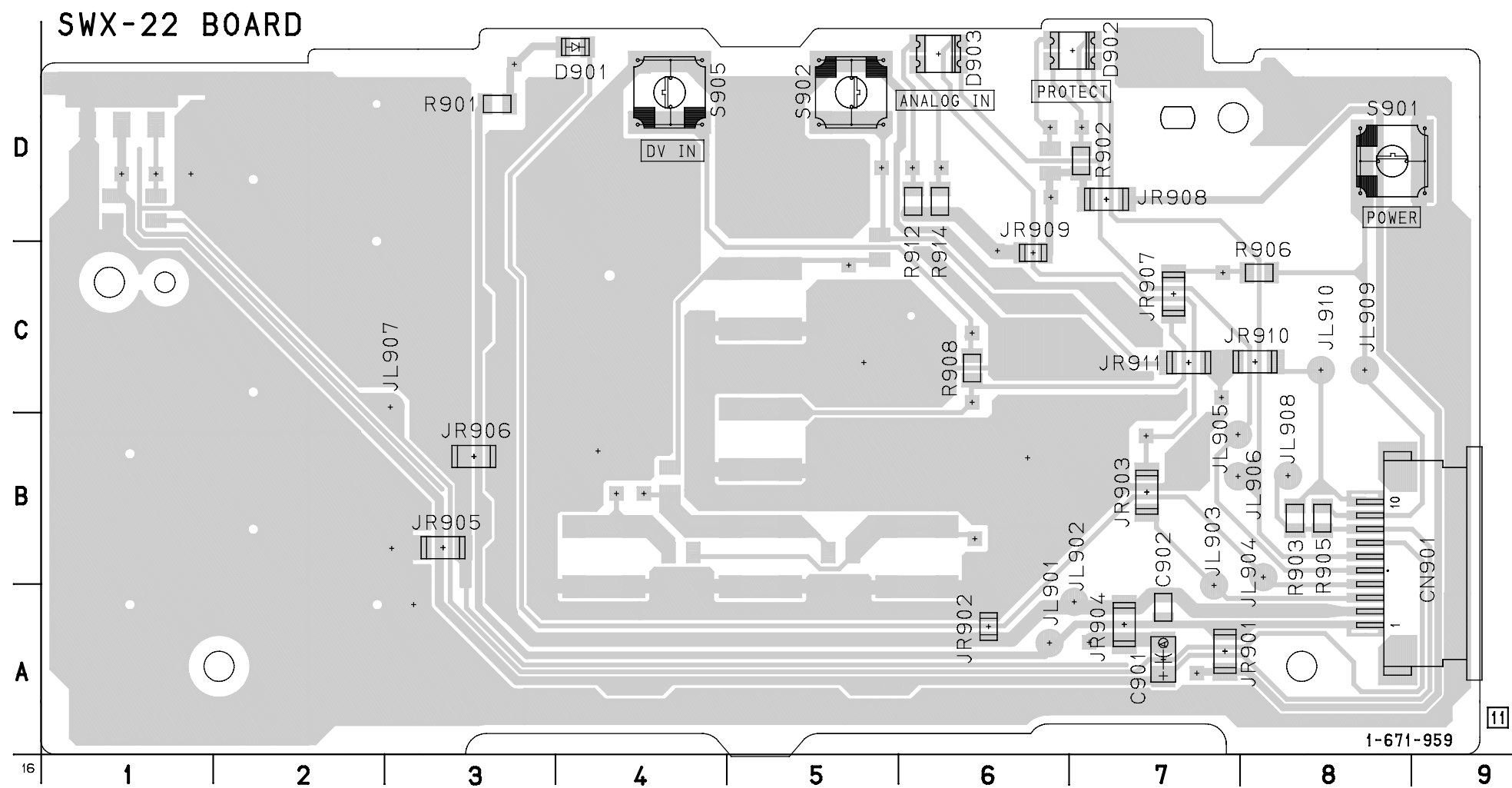


JK-02 (LANC JACK) SCHEMATIC DIAGRAM



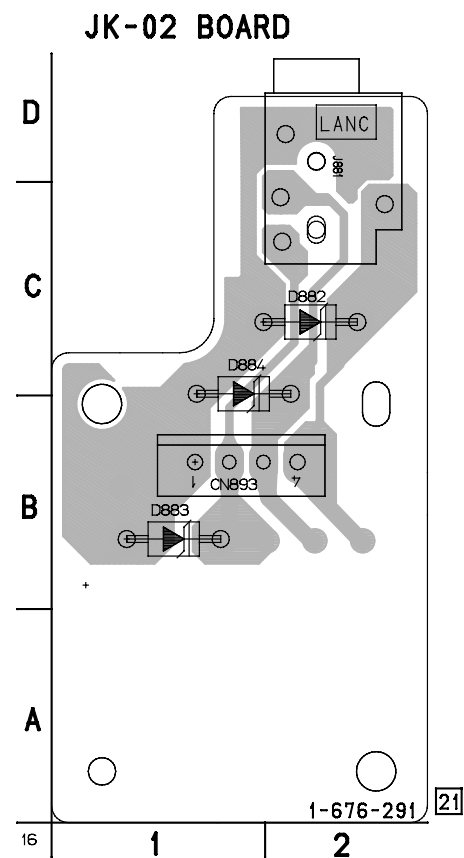
SWX-22 (SWITCH) PRINTED WIRING BOARD

There are few cases that the part printed on this diagram isn't mounted in this model.



JK-02 (LANC JACK) PRINTED WIRING BOARD

There are few cases that the part printed on this diagram isn't mounted in this model.



There are few cases that the part printed on this diagram isn't mounted in this model.

IFX-52 BOARD (SIDE A)

IFX-52 BOARD

- D302 C-1
- D303 C-2
- D304 C-1
- D702 B-6
- D703 C-8
- D705 C-8
- D706 C-9
- D707 D-8
- D801 A-2
- D802 A-2

- IC001 E-6
- IC101 C-7
- IC201 D-4
- IC202 C-6
- IC301 B-1
- IC502 A-4
- IC701 A-6
- IC702 B-6
- IC703 B-7

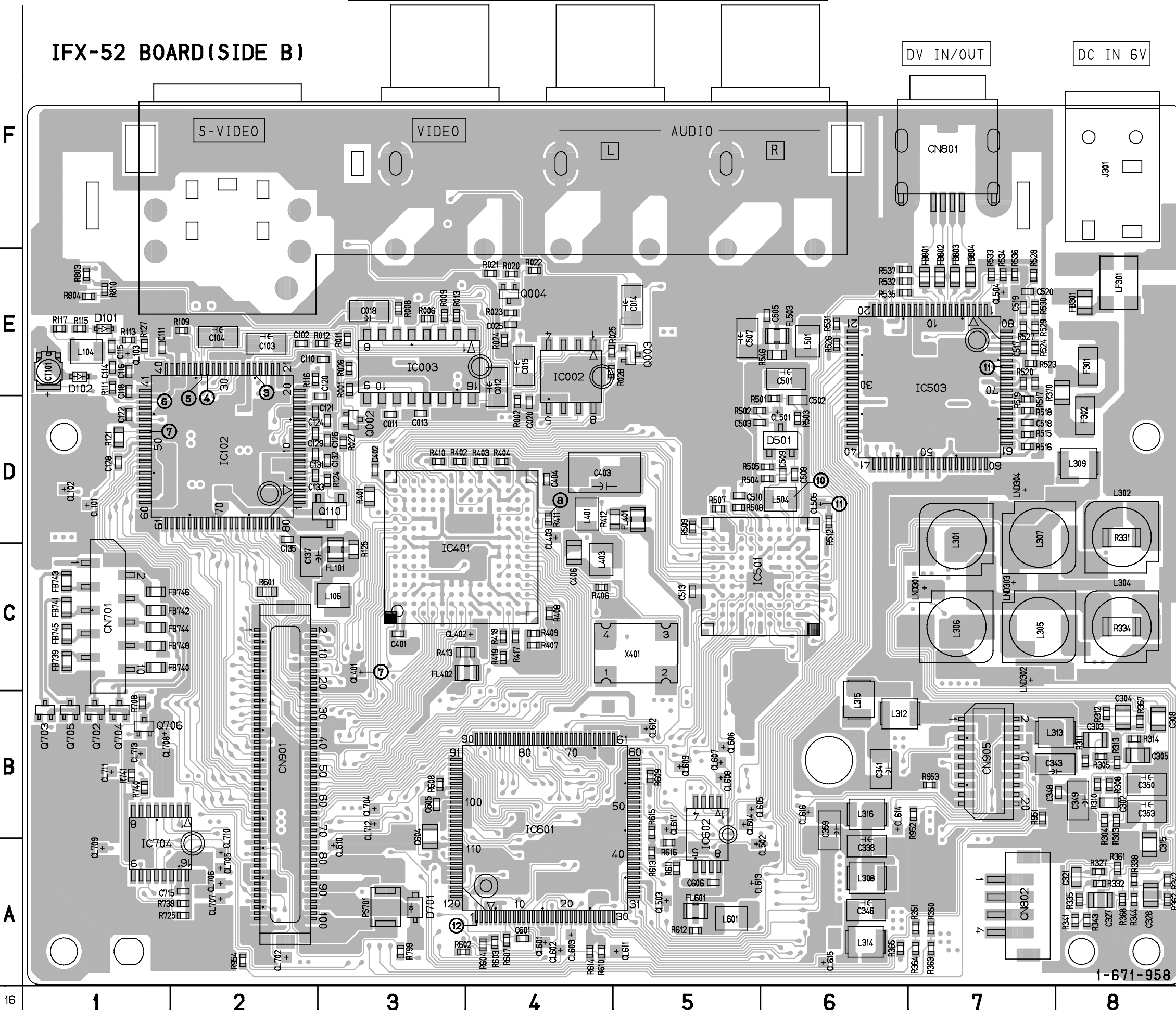
- Q101 D-7
- Q102 D-7
- Q103 E-7
- Q104 F-7
- Q105 E-7
- Q106 D-7
- Q107 D-7
- Q108 D-7
- Q109 D-7
- Q201 F-4
- Q202 F-4
- Q203 F-4
- Q205 F-4
- Q206 F-3
- Q207 F-3
- Q208 F-3
- Q209 C-5
- Q302 C-1
- Q303 C-2
- Q304 C-1
- Q305 D-2
- Q306 D-2
- Q307 B-3
- Q308 B-2
- Q701 A-6
- Q951 A-2



IFX-52 (MAIN : SIDE B) PRINTED WIRING BOARD

There are few cases that the part printed on this diagram isn't mounted in this model.

IFX-52 BOARD (SIDE B)



IFX-52 BOARD

- D101 E-1
- D102 E-1
- D501 D-6
- D701 A-3

- IC002 E-4
- IC102 D-2
- IC401 C-3
- IC501 C-5
- IC503 E-7
- IC601 B-4
- IC602 B-5
- IC704 A-1

- Q003 E-5
- Q004 E-4
- Q110 D-3
- Q702 B-1
- Q703 B-1
- Q704 B-1
- Q705 B-1

16

1

2

3

4

5

6

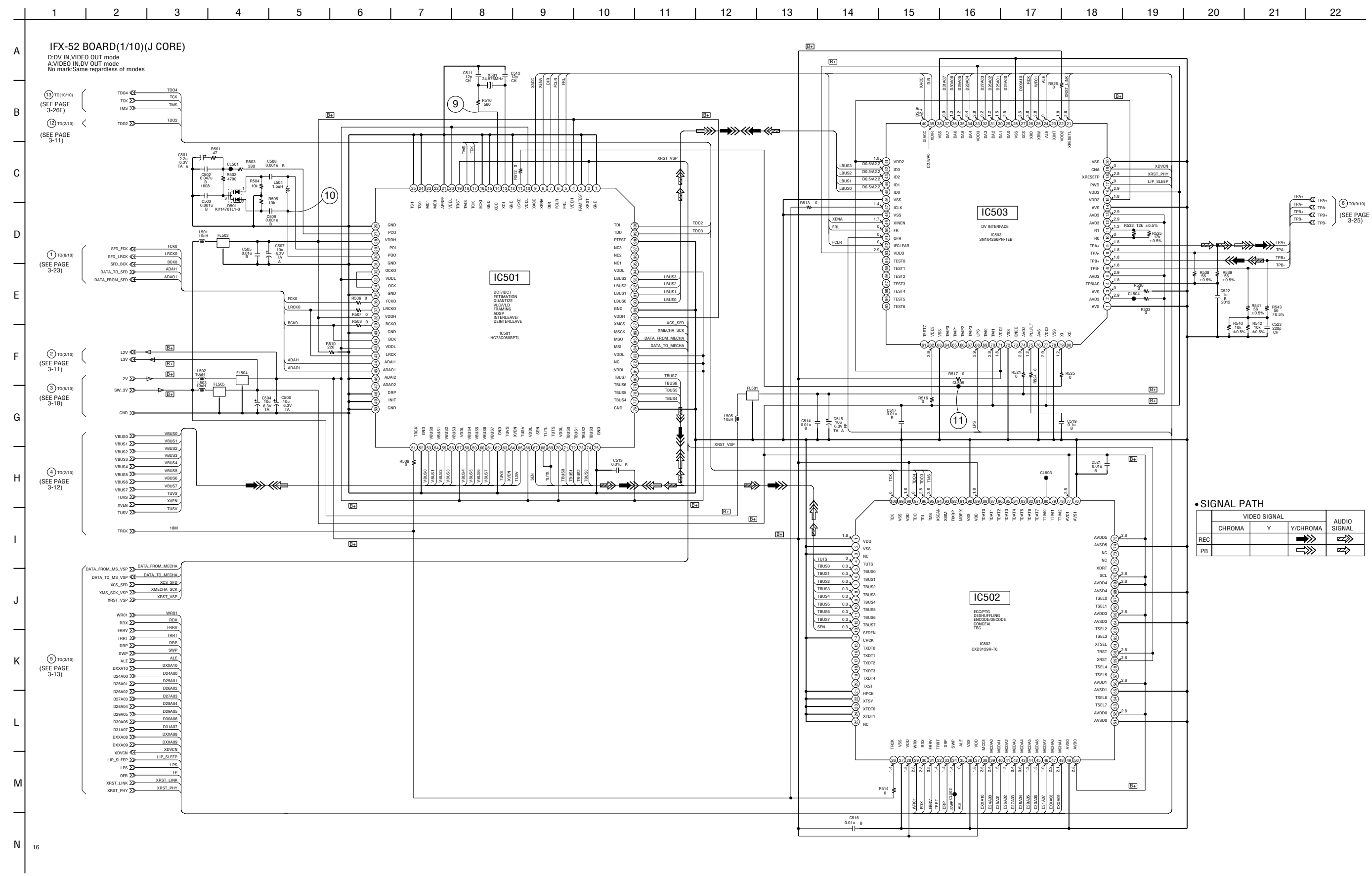
7

8

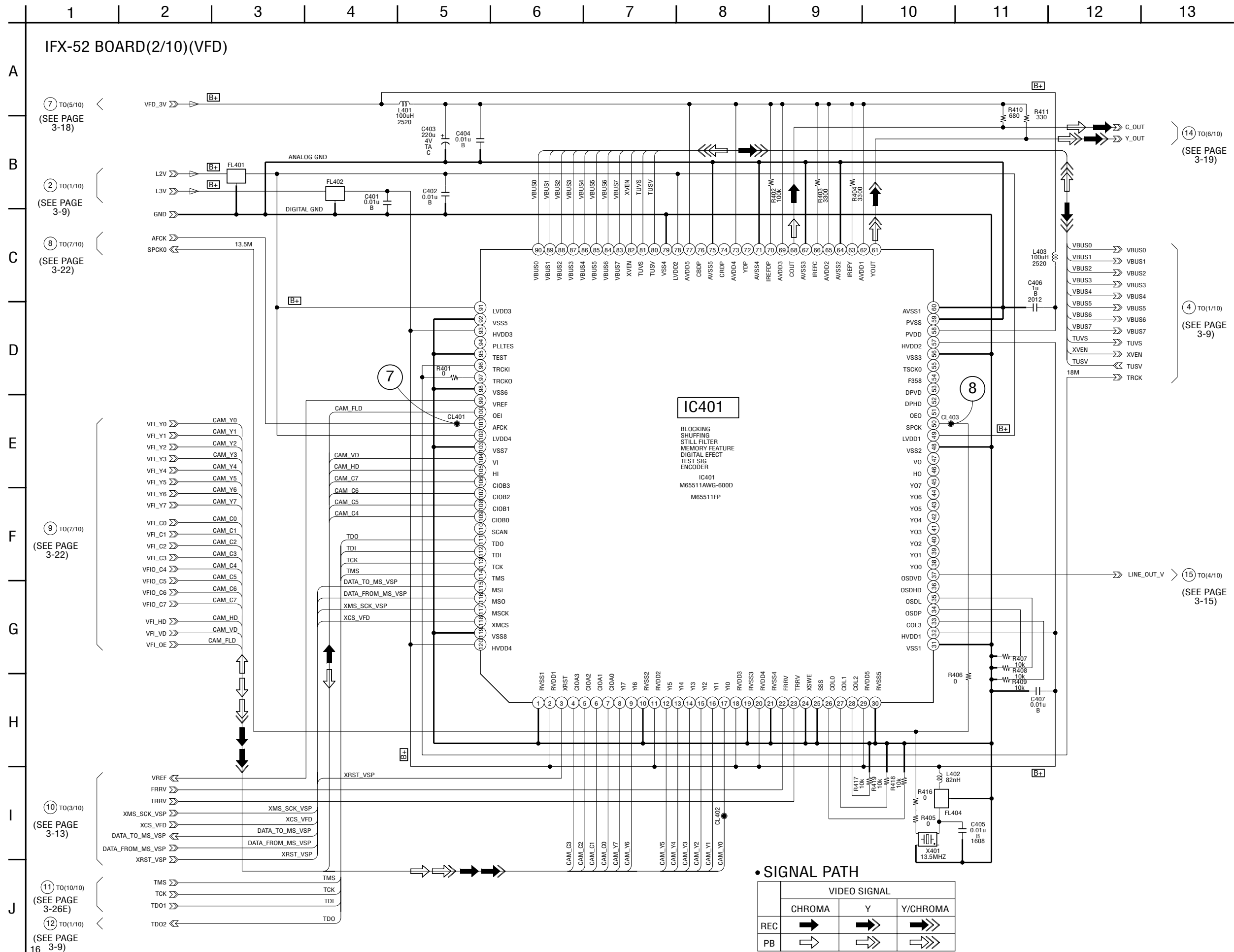
3-7

3-8

1-671-958 21

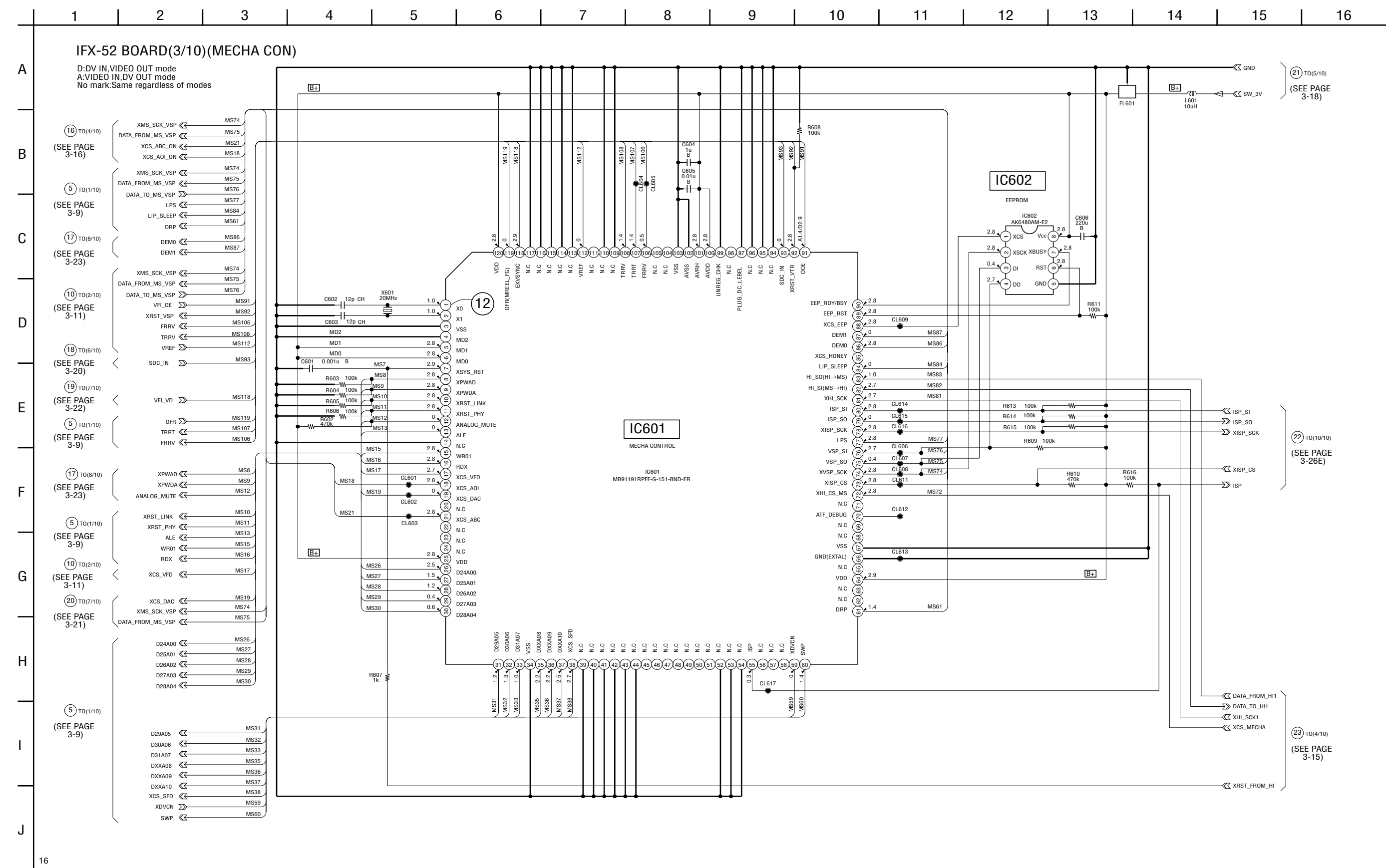


IFX-52 (VFD) SCHEMATIC DIAGRAM • Refer to page 3-5, 3-7 for IFX-52 BOARD printed wiring board. • Refer to page 3-1 for waveforms.



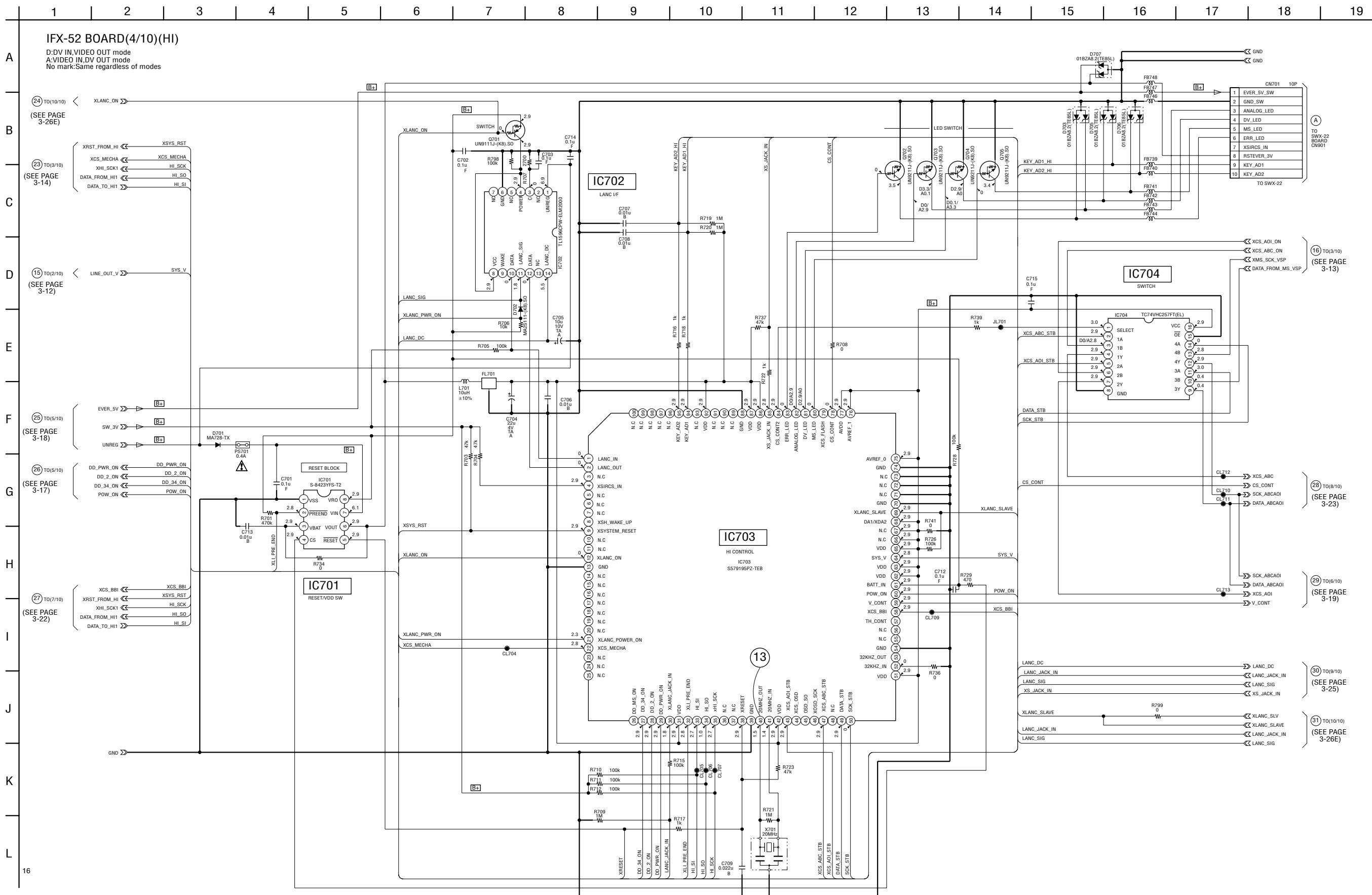
IFX-52 (MECHA CON) SCHEMATIC DIAGRAM

Refer to page 3-5, 3-7 for IFX-52 BOARD printed wiring board. Refer to page 3-1 for waveforms.

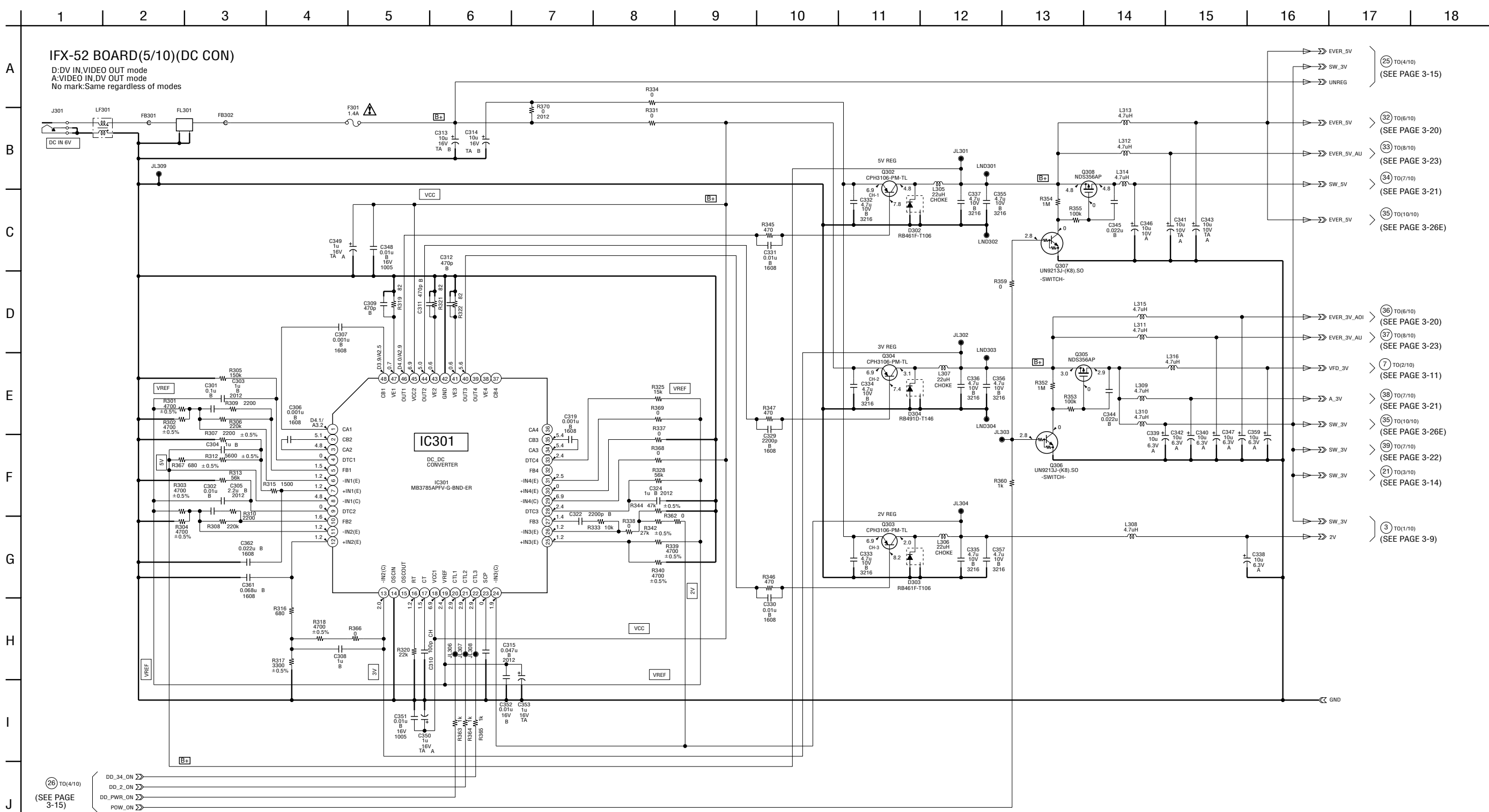


IFX-52 (HI) SCHEMATIC DIAGRAM

• Refer to page 3-5, 3-7 for IFX-52 BOARD printed wiring board. • Refer to page 3-1 for waveforms.

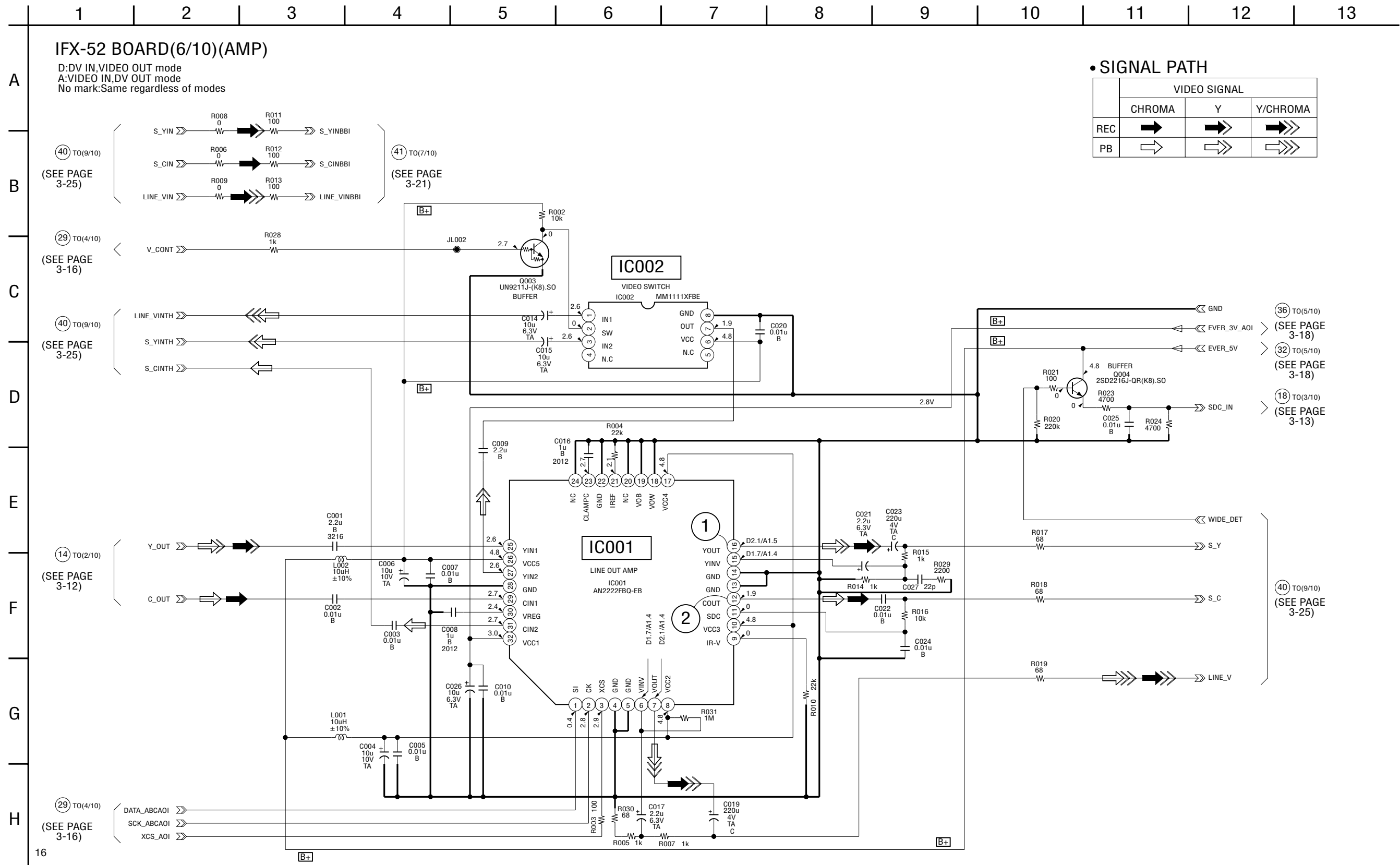


IFX-52 (DC CON) SCHEMATIC DIAGRAM • Refer to page 3-5, 3-7 for IFX-52 BOARD printed wiring board.



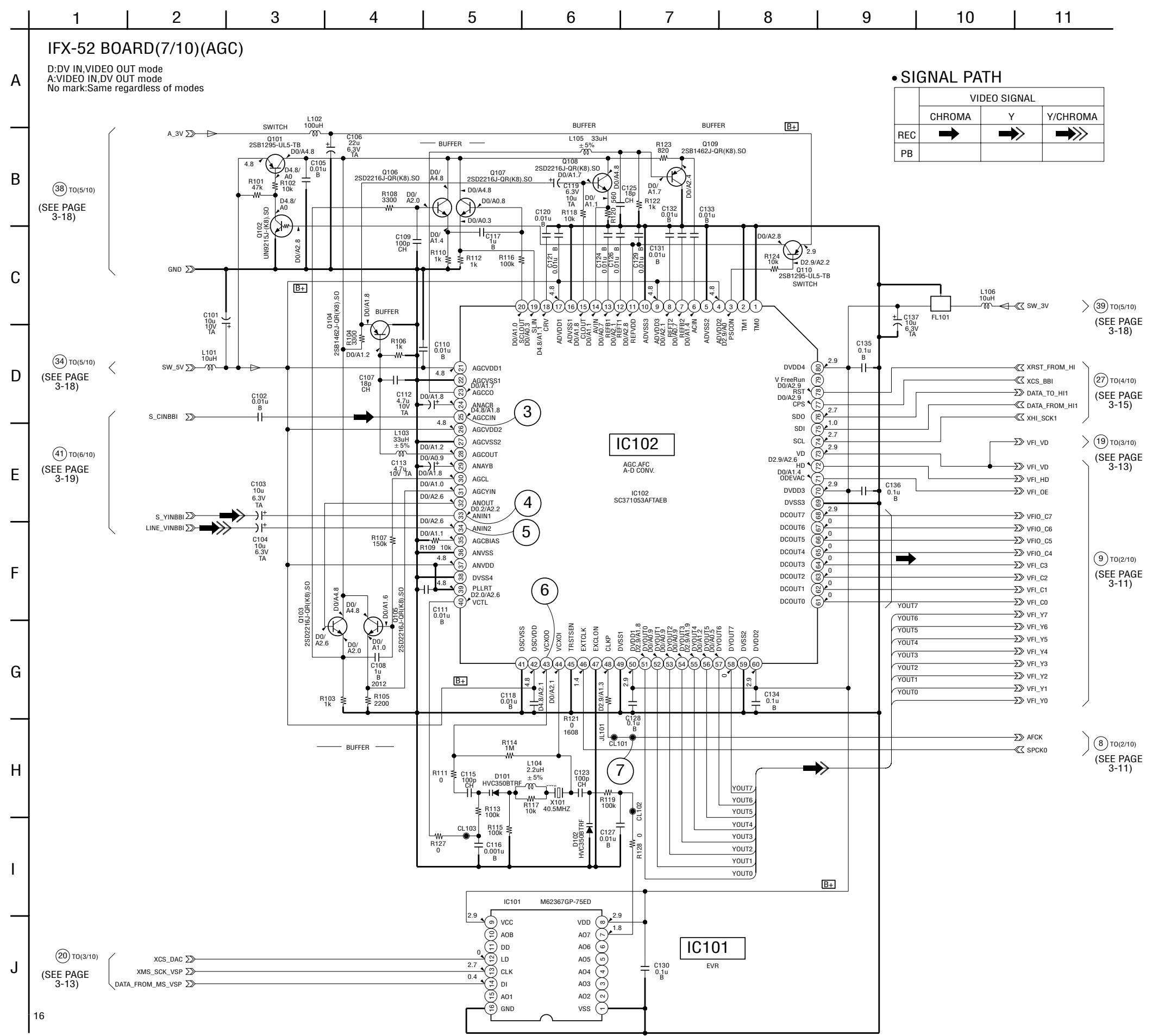
16

IFX-52 (AMP) SCHEMATIC DIAGRAM • Refer to page 3-5, 3-7 for IFX-52 BOARD printed wiring board. • Refer to page 3-1 for waveforms.

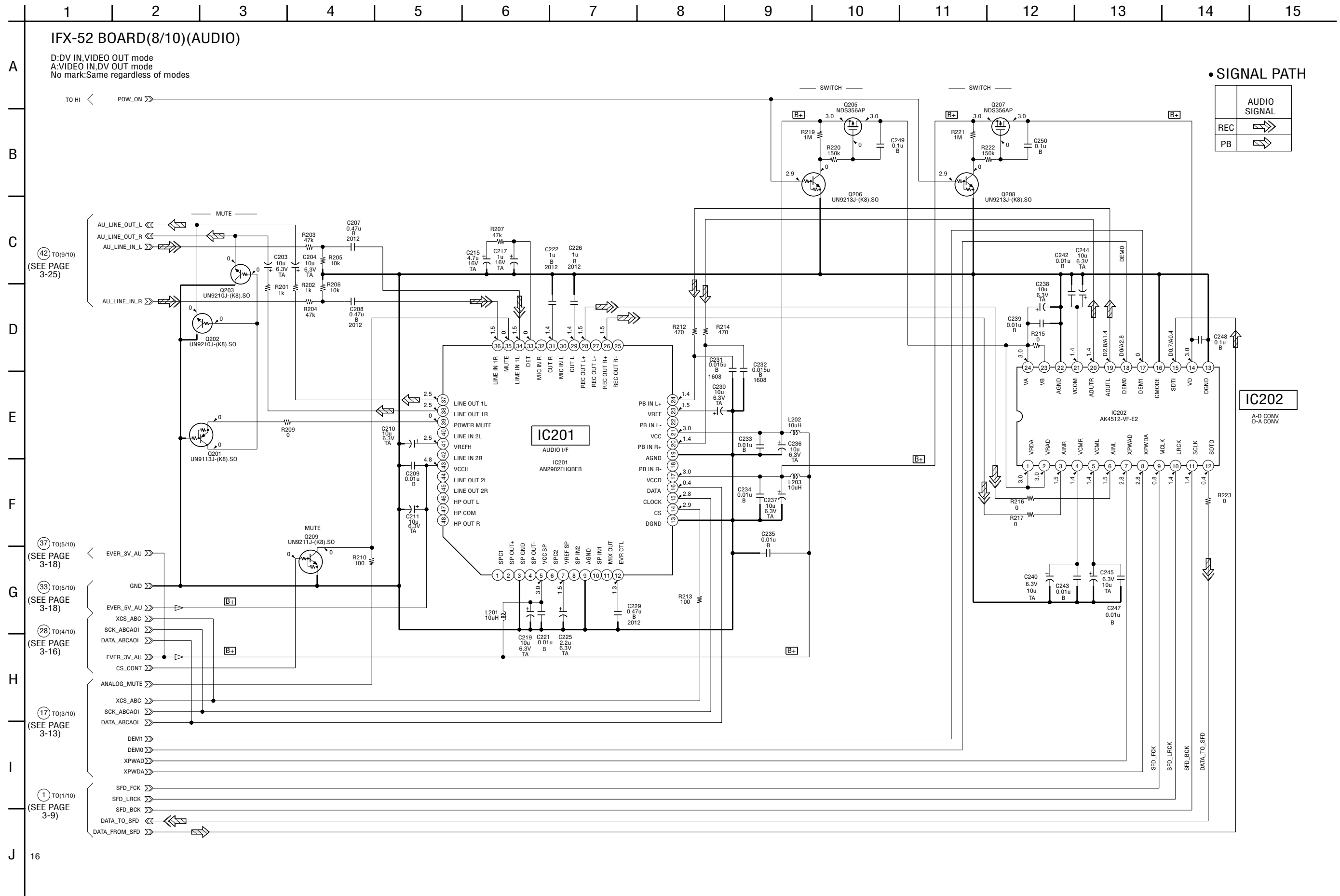


16

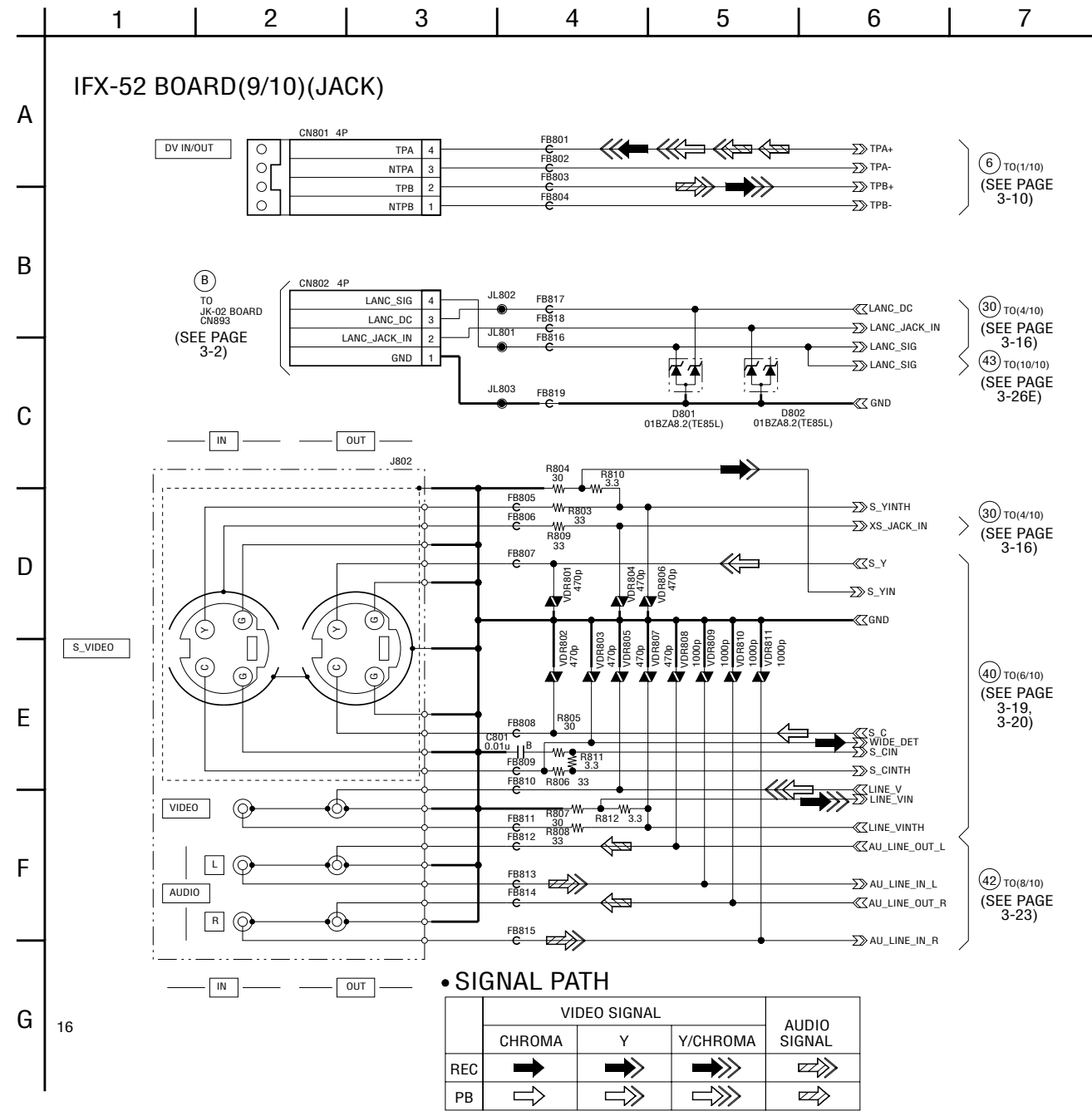
IFX-52 (AGC) SCHEMATIC DIAGRAM • Refer to page 3-5, 3-7 for IFX-52 BOARD printed wiring board. • Refer to page 3-1 for waveforms.



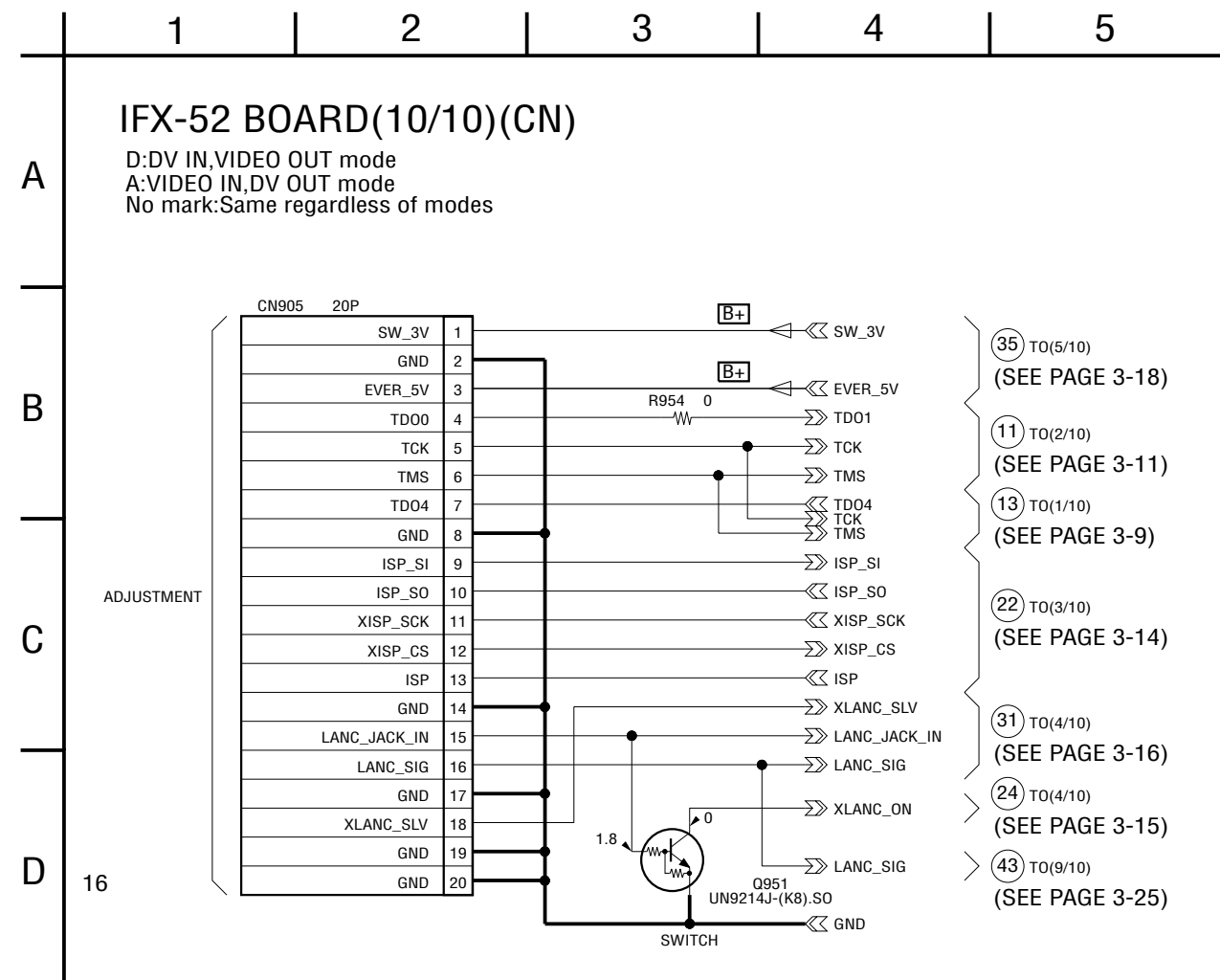
IFX-52 (AUDIO) SCHEMATIC DIAGRAM • Refer to page 3-5, 3-7 for IFX-52 BOARD printed wiring board.



IFX-52 (JACK) SCHEMATIC DIAGRAM • Refer to page 3-5, 3-7 for IFX-52 BOARD printed wiring board.



IFX-52 (CN) SCHEMATIC DIAGRAM • Refer to page 3-5, 3-7 for IFX-52 BOARD printed wiring board.



SECTION 4 ADJUSTMENTS

4-1. PREPARATIONS BEFORE ADJUSTMENTS

Use the following measuring instruments for video section adjustment.

1. Equipment Required

- 1) TV monitor
- 2) Oscilloscope (dual-trace, band width of 30 MHz more with delay mode) (Unless otherwise specified, use a 10 : 1 probe.)
- 3) Pattern generator with video output terminal.
- 4) Regulated power supply
- 5) Adjustment remote commander (J-6082-053-B)

2. Removing Cabinets and Connections

- 1) Remove the four screws from the bottom panel and remove the cabinet (upper) block assembly.
- 2) Remove the flexible wiring board that is connected to CN701 of the IFX-52 board.
- 3) Remove the two screws (B3 × 10) from the rear panel and two screws (M2 × 6) securing the shield plate. Remove the cabinet (lower) assembly and the shield (upper).
- 4) Remove the four screws (M2 × 5) securing the IFX-52 board, and remove the IFX-52 board.
- 5) Connect the measuring instruments as shown in Fig. 4-1.

3. Checking the Input Signals

The video signal that is supplied from the pattern generator is used as the adjustment signal of the video section. Therefore, the video output signal must satisfy the given specifications.

Connect an oscilloscope to the video terminal of the AUDIO/VIDEO jack, and check that the sync signal amplitude of the video signal is approximately 0.286V, the amplitude of the video section is approximately 0.714V, the amplitude of the burst signal is approximately 0.286V and flat, and that the "red" amplitude of the chroma signal is approximately 0.67V.

The video signal used for adjusting the video section is shown in Fig. 4-2.

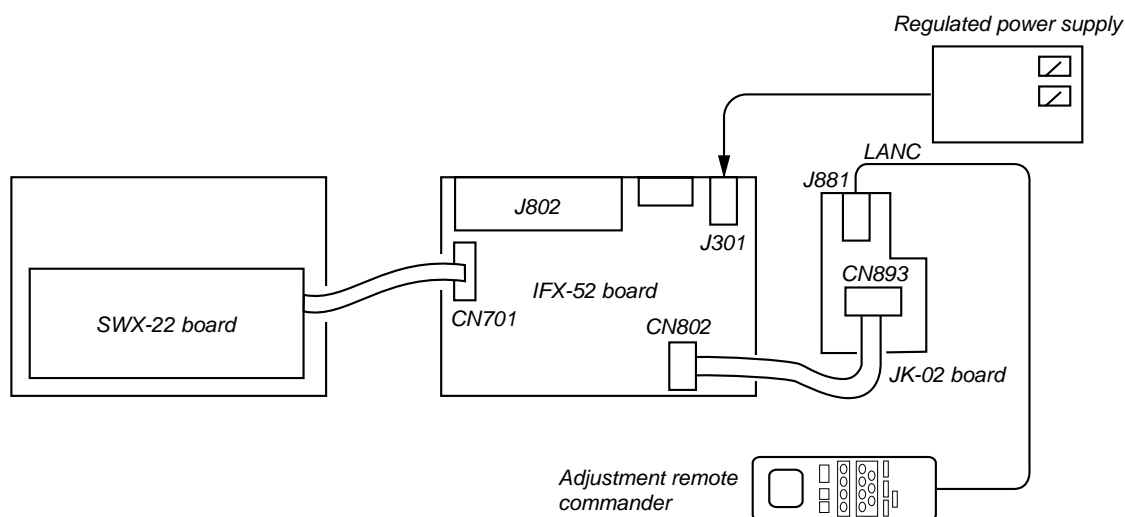


Fig. 4-1

Fig.4-2 shows the 75% color bar signals recorded on the alignment tape for Audio Operation Check.

Note: Measure with video terminal (Terminated at 75 Ω)

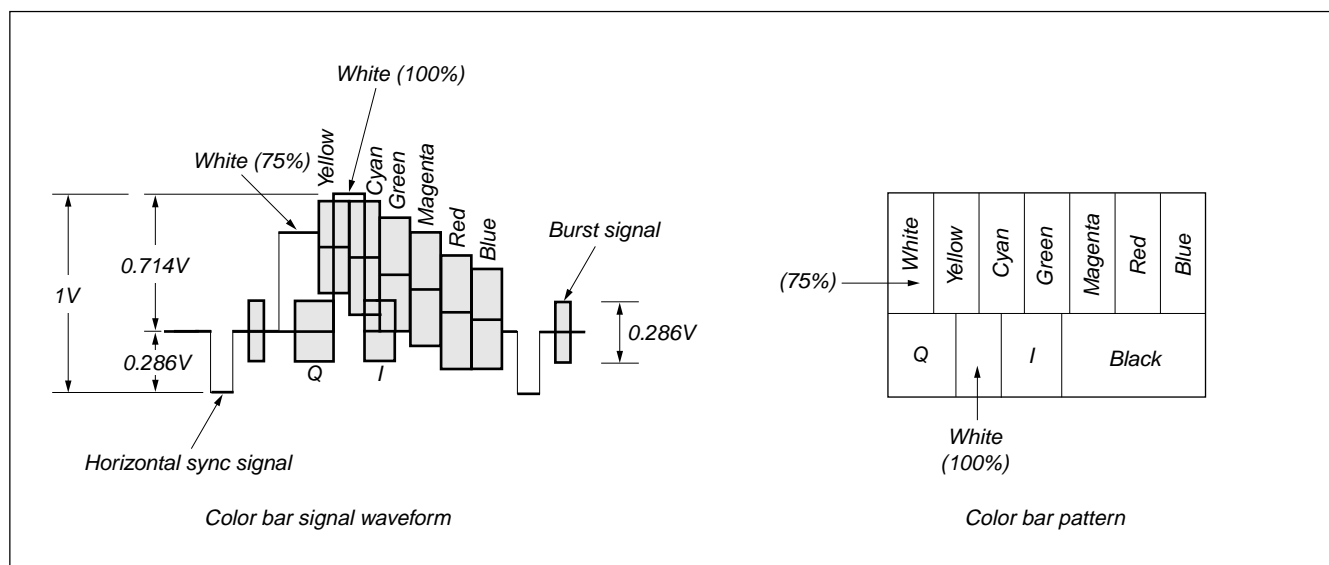


Fig. 4-2

4. Input/Output Level and Impedance

Video input

Pin jack

Video signal: 1Vp-p, 75 Ω unbalanced, sync negative

S video input

4-pin mini DIN

Luminance signal: 1Vp-p, 75 Ω unbalanced, sync negative

Chrominance signal :0.286 Vp-p, 75 Ω unbalanced

Audio input

Pin jack

Input level: 327mV

Input impedance: 47k Ω or more

Video output

Pin jack

Output signal: 1Vp-p, 75 Ω unbalanced, sync negative

S video output

4-pin mini DIN

Luminance signal: 1Vp-p, 75 Ω unbalanced, sync negative

Chrominance signal:0.286Vp-p, 75 Ω unbalanced, sync negative

Audio output

Pin jack

Output level: 327 mV (across 47 Ω load)

Output impedance: 10k Ω or less

4-2. INITIALIZATION OF C PAGE DATA

1. Initializing the C Page Data

Note: If the page C data is initialized, the following adjustments must be performed again.

- 1) Modification of C page data
Be sure to read all of the "Fixed data-2" and take note of them before starting initialization. After the C page data is initialized, be sure to input the same data that has been noted before. (Refer to Table 4-1.)
- 2) Video system adjustment

| | |
|-------------------|----------|
| Adjusting page | C |
| Adjusting Address | 00 to DF |

Initializing Method:

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: 3, address: 80, set data: 0C, and press the PAUSE button of the adjustment remote commander.
- 3) Check that the data of page: 3, address: 80 is changed to "1C".
- 4) Perform "Modification of C Page Data".

2. Modification of C Page Data

If the C Page data has been initialized, change the data of the "Fixed data-2" address shown in the following table by manual input.

Modifying Method:

- 1) Before changing the data, select page: 0, address: 01, and set data: 01.
- 2) New data for changing are not shown in the tables because they are different depending on destination. When you want to change the data, copy the data built in the same set of the same destination.
Note: If the different set is copied, the camcorder may not operate.
- 3) To change the data, press the PAUSE button of the adjustment remote commander each time when setting new data to write the data in the non-volatile memory.
- 4) Check that the data of adjustment addresses is the initial value. If not, change the data to the initial value.

Processing after Completing Modification of C Page data

- 1) Select page: 2, address: 00, and set data: 29.
- 2) Select page: 2, address: 01, and set data: 29, and press the PAUSE button of the adjustment remote commander.

3. C Page Table

Note: Fixed data-1 : Initialized data. (Refer to "1. Initializing the C Page Data".)

Fixed data-2 : Modified data. (Refer to "2. Modification of C PAGE Data").

| Address | Initial value | Remark |
|----------|---------------|---------------------------------|
| 00 to 24 | | Fixed data-1 (Initialized data) |
| 25 | 88 | S VIDEO output Y level adj. |
| 26 | E3 | S VIDEO output Cr level adj. |
| 27 | A1 | S VIDEO output Cb level adj. |
| 28 to 2A | | Fixed data-1 (Initialized data) |
| 2B | 04 | Chroma BPF fo adj. |
| 2C to 30 | | Fixed data-1 (Initialized data) |
| 31 to 33 | | Fixed data-2 |
| 34 to A9 | | Fixed data-1 (Initialized data) |
| AA | 80 | PLL adj. |
| AB to DF | | Fixed data-1 (Initialized data) |
| E0 to FF | | |

Table. 4-1

[Regarding difference between the LANC-M mode and the LANC-S mode]

The LANC operation has the two modes: One is the LANC-M (LANC Master) mode and the other is the LANC-S (LANC Slave) mode.

LANC-M: In this mode, this machine controls the other machines that are connected to this machine.

LANC-S: In this mode, this machine is controlled by the other machine.

The DVMC-DA2 operates normally in the LANC-M mode. However, the LANC-S mode must be selected in order to perform adjustment (enter the service mode).

Use either one of the following two procedures to select the LANC-S mode.

Procedure 1

- 1) Turn off the main power.
- 2) Establish a short circuit between CN905 pin-⑮ and pin-⑳ on the IFX-52 board.
- 3) Insert the RM-95 into J881 (LANC JACK). Push to slide the HOLD switch of the RM-95 to its right.
- 4) Supply an external DC 6 V to J301 (DC JACK).
- 5) The LCD panel on the RM-95 turns on and the LANC-S mode starts up. Perform the desired adjustments.
- 6) After the adjustments are complete, turn off the main power. Remove a short circuit between CN905 pin-⑮ and pin-⑳ on the IFX-52 board.

Procedure 2

- 1) Turn off the main power.
- 2) Insert the RM-95 into J881 (LANC JACK). Push to slide the HOLD switch of the RM-95 to its right.
- 3) Supply an external DC 6 V to J301 (DC JACK).
- 4) Wait for about five seconds.
- 5) While pressing the ANALOG IN button and the DV IN button at the same time for two seconds or longer, press the POWER button.
- 6) The LCD panel on the RM-95 turns on and the LANC-S mode starts up. Perform the desired adjustments.
- 7) The main power cannot be turned off by pressing the POWER button while the machine is in the LANC-S mode. Turn off the main power either by sliding the HOLD switch of the RM-95 to its left, or by unplugging the AC adaptor from J301 (DC JACK).

Note: There can be a case that the machine cannot enter the LANC-S mode due to chattering of the switch button in step 2. However, make attempt several times to enter the LANC-S mode.

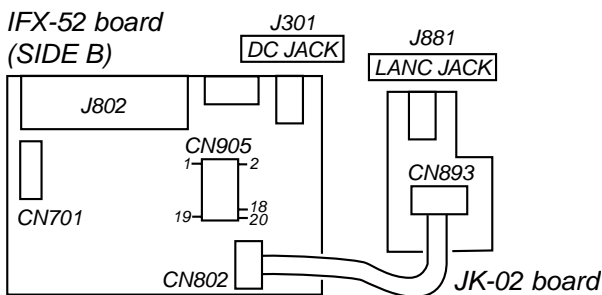


Fig. 4-3

4-3. INITIALIZATION OF D PAGE DATA

1. Initializing the D Page Data

Note: If the page D data is initialized, the following adjustments must be performed again.

- 1) Modification of D page data
Be sure to read all of the “Fixed data-2” and take note of them before starting initialization. After the C page data is initialized, be sure to input the same data that has been noted before. (Refer to Table 4-2.)

| | |
|-------------------|----------|
| Adjusting page | C |
| Adjusting Address | 00 to 8F |

Initializing Method:

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: 3, address: 80, set data: 0D, and press the PAUSE button of the adjustment remote commander.
- 3) Check that the data of page: 3, address: 80 is changed to “1D”.
- 4) Perform “Modification of D Page Data”.

2. Modification of D Page Data

If the D Page data has been initialized, change the data of the “Fixed data-2” address shown in the following table by manual input.

Modifying Method:

- 1) Before changing the data, select page: 0, address: 01, and set data: 01.
- 2) New data for changing are not shown in the tables because they are different depending on destination. When you want to change the data, copy the data built in the same set of the same destination.
Note: If the different set is copied, the camcorder may not operate.
- 3) To change the data, press the PAUSE button of the adjustment remote commander each time when setting new data to write the data in the non-volatile memory.
- 4) Check that the data of adjustment addresses is the initial value. If not, change the data to the initial value.

Processing after Completing Modification of C Page data

- 1) Select page: 2, address: 00, and set data: 29.
- 2) Select page: 2, address: 01, and set data: 29, and press the PAUSE button of the adjustment remote commander.

3. D Page Table

Note: Fixed data-1 : Initialized data. (Refer to “1. Initializing the D Page Data”.)
Fixed data-2 : Modified data. (Refer to “2. Modification of D PAGE Data”.)

| Address | Initial value | Remark |
|----------|---------------|---------------------------------|
| 00 to 8F | | Fixed data-1 (Initialized data) |
| 90 to FF | | |

Table. 4-2

4-4. VIDEO SYSTEM ADJUSTMENTS

Connection of Video System Measuring Instruments

Connect the video system measuring instruments as shown in Fig. 4-4.

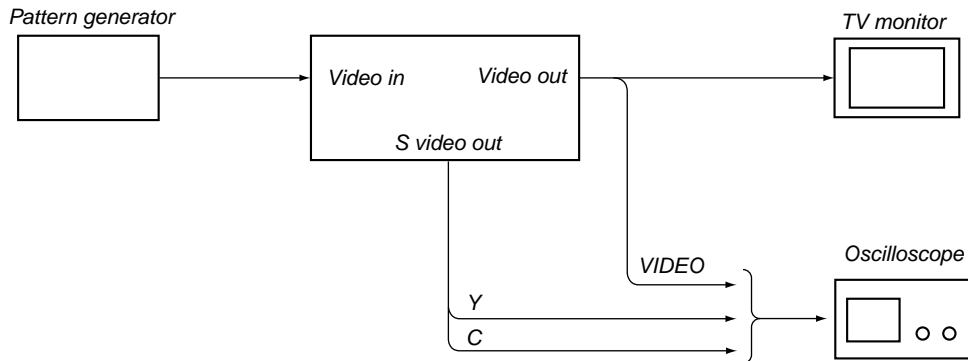


Fig. 4-4

1. Chroma BPF fo Adjustment

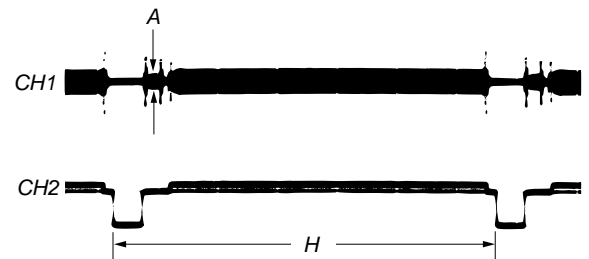
Set the center frequency of IC001 chroma band-pass filter.

| | |
|----------------------|---|
| Mode | Digital EE |
| Signal | No signal |
| Measurement Point | CH1: Chroma signal terminal of S VIDEO jack (75 Ω terminated) CH2: Y signal terminal of S VIDEO jack (75 Ω terminated) |
| Measuring Instrument | Oscilloscope |
| Adjustment Page | C |
| Adjustment Address | 2B |
| Specified Value | A = 100mVp-p or less B = 200mVp-p or more |

Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: C, address: 56, set data: 00, and press the PAUSE button of the adjustment remote commander. (digital EE mode)
- 3) Check that the burst signal (B) is output to the chroma signal terminal.
- 4) Select page: 3, address: 0C, set data: 04, and press the PAUSE button of the adjustment remote commander.
- 5) Select page: C, address: 2B, and change the data (in the range of 00 to 07) for minimum amplitude of the burst signal level (A).
- 6) Press the PAUSE button of the adjustment remote commander.
- 7) Select page: 3, address: 0C, set data: 00, and press the PAUSE button of the adjustment remote commander.
- 8) Check that the burst signal level (B) is satisfied the specified value.
- 9) Select page: C, address: 56, set data: 08, and press the PAUSE button of the adjustment remote commander.
- 10) Select page: 0, address: 01, and set data: 00.

When the page: 3, address: 0C data is 04:



When the page: 3, address: 0C data 00.

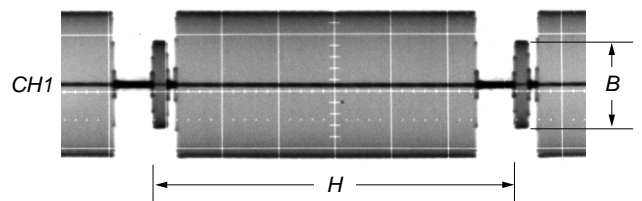


Fig. 4-5

2. S-VIDEO OUT Y Level Adjustment

| | |
|----------------------|---|
| Mode | VTR, Digital EE |
| Signal | No signal |
| Measurement Point | Y signal terminal of S VIDEO jack (75 Ω terminated) |
| Measuring Instrument | Oscilloscope |
| Adjustment Page | C |
| Adjustment Address | 25 |
| Specified Value | $A = 1000 \pm 14\text{mVp-p}$ |

Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: C, address: 48, set data: 06, and press the PAUSE button of the adjustment remote commander. (VTR mode)
- 3) Select page: C, address: 56, set data: 00, and press the PAUSE button of the adjustment remote commander. (digital EE mode)
- 4) Select page: 2, address: 35. After note down the data of this address, set data: 01 to the address.
- 5) Select page: 3, address: 0C, set data: 02, and press the PAUSE button of the adjustment remote commander.
- 6) Select page: C, address: 25, change the data and set the Y signal level (A) to the specified value.
- 7) Press the PAUSE button of the adjustment remote commander.
- 8) Select page: 3, address: 0C, set data: 00, and press the PAUSE button of the adjustment remote commander.
- 9) Select page: 2, address: 35. and set the data that is noted down at step 4).
- 10) Select page: C, address: 48, set data: 00, and press the PAUSE button of the adjustment remote commander.
- 11) Select page: C, address: 56, set data: 08, and press the PAUSE button of the adjustment remote commander.
- 12) Select page: 0, address: 01, and set data: 00.

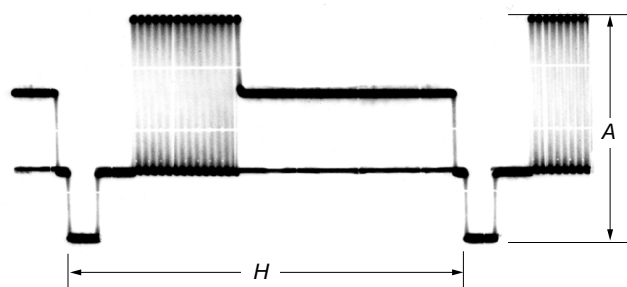


Fig. 4-6

3. S-VIDEO OUT Cr, Cb Level Adjustment

| | |
|----------------------|---|
| Mode | VTR, Digital EE |
| Signal | No signal |
| Measurement Point | Chroma signal terminal of S VIDEO jack (75 Ω terminated) External trigger: Y signal terminal of S VIDEO jack |
| Measuring Instrument | Oscilloscope |
| Adjustment Page | C |
| Adjustment Address | 26, 27 |
| Specified Value | Cr level: $A = 714 \pm 14\text{mVp-p}$ Cb level: $B = 714 \pm 14\text{mVp-p}$ Burst level: $C = 286 \pm 16\text{mVp-p}$ |

Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: C, address: 48, set data: 06, and press the PAUSE button of the adjustment remote commander. (VTR mode)
- 3) Select page: C, address: 56, set data: 00, and press the PAUSE button of the adjustment remote commander. (digital EE mode)
- 4) Select page: 2, address: 35. After note down the data of this address, set data: 01 to the address.
- 5) Select page: 3, address: 0C, set data: 02, and press the PAUSE button of the adjustment remote commander.
- 6) Select page: C, address: 26, change the data to adjust the Cr signal level (A) to the specified value.
- 7) Press the PAUSE button of the adjustment remote commander.
- 8) Select page: C, address: 27, change the data to adjust the Cb signal level (B) to the specified value.
- 9) Press the PAUSE button of the adjustment remote commander.
- 10) Check that the burst signal level (C) is satisfied the specified value.
- 11) Select page: 3, address: 0C, set data: 00, and press the PAUSE button of the adjustment remote commander.
- 12) Select page: 2, address: 35, and set the data that is noted down at step 4).
- 13) Select page: C, address: 48, set data: 00, and press the PAUSE button of the adjustment remote commander.
- 14) Select page: C, address: 56, set data: 08, and press the PAUSE button of the adjustment remote commander.
- 15) Select page: 0, address: 01, and set data: 00.

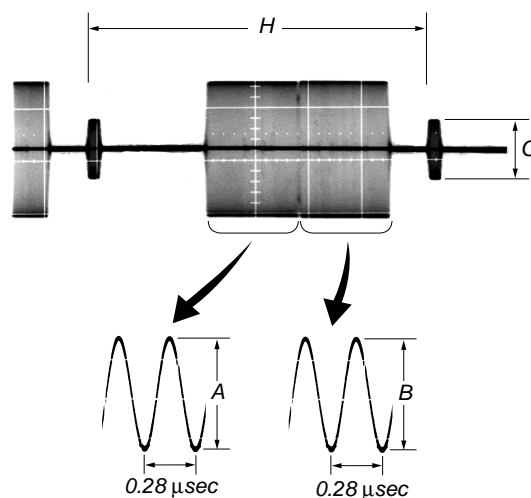


Fig. 4-7

4. VIDEO OUT Sync Level and Burst Level Check

| | |
|----------------------|---|
| Mode | Digital EE |
| Signal | No signal |
| Measurement Point | Measurement Point Video out terminal (75Ωterminated) |
| Measuring Instrument | Oscilloscope |
| Specified Value | Sync signal level: A = 286 ±20 mVp-p Burst signal level: B = 286 ±30 mVp-p |

Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: C, address: 56, set data: 00, and press the PAUSE button of the adjustment remote commander. (digital EE mode)
- 3) Check that the sync signal level (A) satisfies the specified value.
- 4) Check that the burst signal level (B) satisfies the specified value.
- 5) Select page: C, address: 56, set data: 08, and press the PAUSE button of the adjustment remote commander.
- 6) Select page: 0, address: 01, and set data: 00.

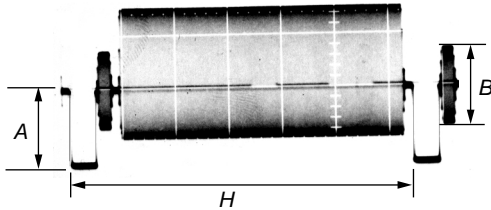


Fig. 4-8

5. PLL Adjustment

Set the VCO center level of the video input circuit (IC102).

| | |
|----------------------|---|
| Mode | Digital EE |
| Signal | Color bar (VIDEO IN terminal input) <3.579545 MHz ±10Hz> |
| Measurement Point | Display data of page: 3, address: 04 |
| Measuring Instrument | Adjustment remote commander |
| Adjustment Page | C |
| Adjustment Address | AA |
| Specified Value | 0A |

Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: C, address: 56, set data: 00, and press the PAUSE button of the adjustment remote commander. (digital EE mode)
- 3) Select page: 3, address: 0C, set data: 80, and press the PAUSE button of the adjustment remote commander.
- 4) Select page: C, address: AA, and set data: 00, and press the PAUSE button.
- 5) Select page: 3, address: 04, and check. If the data is "0A", proceed to step 8).
- 6) Select page: C, address: AA, add "10"(hexadecimal) to the data and press the PAUSE button.
- 7) Select page: 3, address: 04, and check the data is "0A". If not repeat step 7).
- 8) Select page: 3, address: 0C, set data: 00, and press the PAUSE button of the adjustment remote commander.
- 9) Select page: C, address: 56, set data: 08, and press the PAUSE button of the adjustment remote commander.
- 10) Select page: 0, address: 01, and set data: 00.

4-5. SERVICE MODE

ADJUSTMENT REMOTE COMMANDER

The adjustment remote commander is used for changing the calculation coefficient in signal processing, EVR data, etc. The adjustment remote commander performs bi-directional communication with the unit using the remote commander signal line (LANC). The resultant data of this bi-directional communication is written in the non-volatile memory.

1. Using the adjustment remote commander

- 1) Connect the adjustment remote commander to the LANC terminal.
- 2) Set the HOLD switch of the adjustment remote commander to "HOLD" (SERVICE position). If it has been properly connected, the LCD on the adjustment remote commander will display as shown in Fig. 4-9.

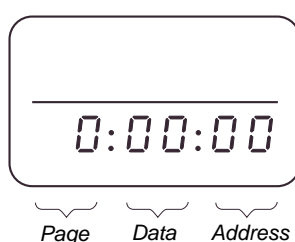


Fig. 4-9

- 3) Operate the adjustment remote commander as follows.
 - Changing the page
The page increases when the EDIT SEARCH+ button is pressed, and decreases when the EDIT SEARCH- button is pressed. There are altogether 16 pages, from 0 to F.

| | |
|--|---------------------------------------|
| Hexadecimal notation | 0 1 2 3 4 5 6 7 8 9 A B C D E F |
| LCD Display | 0 1 2 3 4 5 6 7 8 9 A b c d E F |
| Decimal notation conversion value | 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 |

- Changing the address
The address increases when the FF (▶▶) button is pressed, and decreases when the REW (◀◀) button is pressed. There are altogether 256 addresses, from 00 to FF.
 - Changing the data (Data setting)
The data increases when the PLAY (▶) button is pressed, and decreases when the STOP (■) button is pressed. There are altogether 256 data, from 00 to FF.
 - Writing the adjustment data
The PAUSE button must be pressed to write the adjustment data (B, C, D, F page) in the nonvolatile memory. (The new adjusting data will not be recorded in the nonvolatile memory if this step is not performed.)
- 4) After completing all adjustments, turn off the main power supply (8.4V) once.

2. Precautions upon using the adjustment remote commander

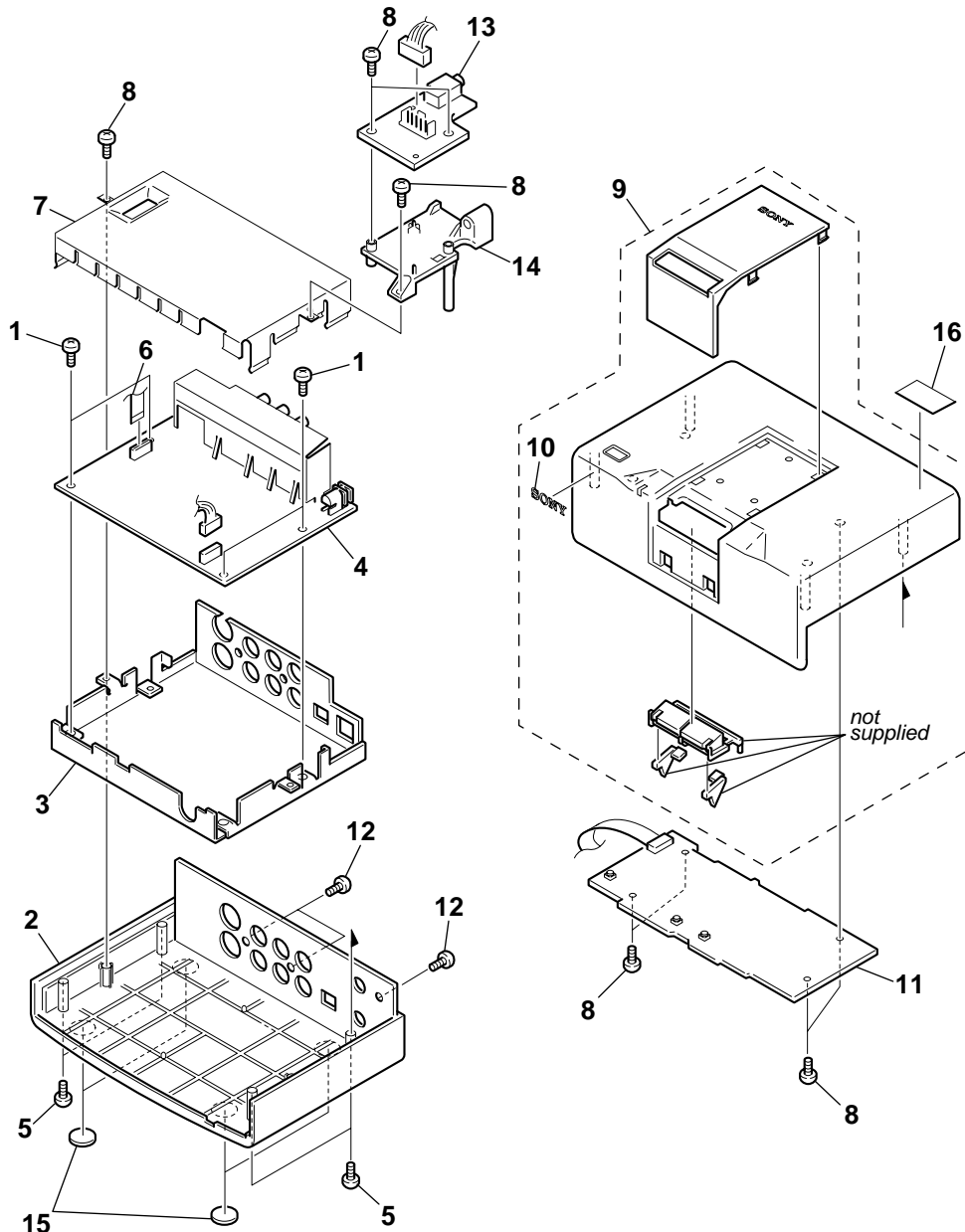
Mishandling of the adjustment remote commander may erase the correct adjustment data at times. To prevent this, it is recommended that all adjustment data be noted down before beginning adjustments and new adjustment data after each adjustment.

SECTION 5 REPAIR PARTS LIST

5-1. EXPLODED VIEWS

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.



| Ref. No. | Part No. | Description | Remarks | Ref. No. | Part No. | Description | Remarks |
|----------|--------------|-----------------------------|---------|----------|--------------|----------------------------|---------|
| 1 | 4-639-967-01 | SCREW, 0 PLATE SPECIAL HEAD | | 9 | A-8046-118-A | CABINET (UPPER) BLOCK ASSY | |
| 2 | X-4622-479-1 | CABINET (LOWER) ASSY | | 10 | 4-942-636-21 | EMBLEM (NO 3.5) SONY | |
| * 3 | 4-639-053-11 | SHIELD (LOWER) | | 11 | A-8054-858-A | SWX-22 BOARD, COMPLETE | |
| 4 | A-8056-554-A | IFX-52 BOARD, COMPLETE | | 12 | 7-685-647-74 | +BV3X10 | |
| 5 | 4-982-491-01 | SCREW (2X8) TAPPING | | 13 | A-8056-556-A | JK-02 BOARD, COMPLETE | |
| 6 | 1-790-197-11 | FFC(IF-SW) | | * 14 | 4-644-562-01 | STAY, RANK | |
| * 7 | 4-639-054-02 | SHIELD (UPPER) | | 15 | 4-641-233-01 | FOOT, RUBBER | |
| 8 | 4-641-086-01 | TAPPING, PRECISION | | 16 | 4-640-530-01 | STICKER, I.LINK | |

5-2. ELECTRICAL PARTS LIST

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.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- **CAPACITORS:**
uF: μ F
- **RESISTORS**
All resistors are in ohms.
METAL: metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F: nonflammable
- **COILS**
uH: μ H

- **SEMICONDUCTORS**
In each case, u: μ , for example:
uA...: μ A..., uPA..., μ PA...,
uPB..., μ PB..., uPC..., μ PC...,
uPD..., μ PD...

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

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

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

| Ref. No. | Part No. | Description | Remarks | Ref. No. | Part No. | Description | Remarks |
|----------|--------------|---|---------|----------|--------------|--------------------------|---------|
| | A-8056-554-A | IFX-52 BOARD, COMPLETE ***** | | C119 | 1-135-259-11 | TANTALUM CHIP 10uF 20% | 6.3V |
| | | | | C120 | 1-164-943-11 | CERAMIC CHIP 0.01uF 10% | 16V |
| | | | | C121 | 1-164-943-11 | CERAMIC CHIP 0.01uF 10% | 16V |
| * | 4-639-140-01 | PLATE, JACK GROUND < CAPACITOR > | | C123 | 1-164-874-11 | CERAMIC CHIP 100PF 5% | 16V |
| | | | | C124 | 1-164-943-11 | CERAMIC CHIP 0.01uF 10% | 16V |
| C001 | 1-109-994-11 | CERAMIC CHIP 2.2uF 10% | 10V | C125 | 1-164-856-81 | CERAMIC CHIP 18PF 5% | 16V |
| C002 | 1-164-943-11 | CERAMIC CHIP 0.01uF 10% | 16V | C126 | 1-164-943-11 | CERAMIC CHIP 0.01uF 10% | 16V |
| C003 | 1-164-943-11 | CERAMIC CHIP 0.01uF 10% | 16V | C127 | 1-164-943-11 | CERAMIC CHIP 0.01uF 10% | 16V |
| C004 | 1-104-851-11 | TANTALUM CHIP 10uF 20% | 10V | C128 | 1-125-777-11 | CERAMIC CHIP 0.1uF 10% | 10V |
| C005 | 1-164-943-11 | CERAMIC CHIP 0.01uF 10% | 16V | C129 | 1-164-943-11 | CERAMIC CHIP 0.01uF 10% | 16V |
| C006 | 1-104-851-11 | TANTALUM CHIP 10uF 20% | 10V | C130 | 1-125-777-11 | CERAMIC CHIP 0.1uF 10% | 10V |
| C007 | 1-164-943-11 | CERAMIC CHIP 0.01uF 10% | 16V | C131 | 1-164-943-11 | CERAMIC CHIP 0.01uF 10% | 16V |
| C008 | 1-109-982-11 | CERAMIC CHIP 1uF 10% | 10V | C132 | 1-164-943-11 | CERAMIC CHIP 0.01uF 10% | 16V |
| C009 | 1-109-994-11 | CERAMIC CHIP 2.2uF 10% | 10V | C133 | 1-164-943-11 | CERAMIC CHIP 0.01uF 10% | 16V |
| C010 | 1-164-943-11 | CERAMIC CHIP 0.01uF 10% | 16V | C134 | 1-125-777-11 | CERAMIC CHIP 0.1uF 10% | 10V |
| C014 | 1-135-259-11 | TANTALUM CHIP 10uF 20% | 6.3V | C135 | 1-125-777-11 | CERAMIC CHIP 0.1uF 10% | 10V |
| C015 | 1-135-259-11 | TANTALUM CHIP 10uF 20% | 6.3V | C136 | 1-125-777-11 | CERAMIC CHIP 0.1uF 10% | 10V |
| C016 | 1-109-982-11 | CERAMIC CHIP 1uF 10% | 10V | C137 | 1-135-259-11 | TANTALUM CHIP 10uF 20% | 6.3V |
| C017 | 1-135-099-91 | TANTALUM CHIP 2.2uF 20% | 6.3V | C203 | 1-135-259-11 | TANTALUM CHIP 10uF 20% | 6.3V |
| C019 | 1-125-899-11 | TANTALUM CHIP 220uF 20% | 4V | C204 | 1-135-259-11 | TANTALUM CHIP 10uF 20% | 6.3V |
| C020 | 1-164-943-11 | CERAMIC CHIP 0.01uF 10% | 16V | C207 | 1-107-823-11 | CERAMIC CHIP 0.47uF 10% | 16V |
| C021 | 1-135-099-91 | TANTALUM CHIP 2.2uF 20% | 6.3V | C208 | 1-107-823-11 | CERAMIC CHIP 0.47uF 10% | 16V |
| C022 | 1-164-943-11 | CERAMIC CHIP 0.01uF 10% | 16V | C209 | 1-164-943-11 | CERAMIC CHIP 0.01uF 10% | 16V |
| C023 | 1-125-899-11 | TANTALUM CHIP 220uF 20% | 4V | C210 | 1-135-259-11 | TANTALUM CHIP 10uF 20% | 6.3V |
| C024 | 1-164-943-11 | CERAMIC CHIP 0.01uF 10% | 16V | C211 | 1-135-259-11 | TANTALUM CHIP 10uF 20% | 6.3V |
| C025 | 1-164-943-11 | CERAMIC CHIP 0.01uF 10% | 16V | C215 | 1-107-686-11 | TANTALUM CHIP 4.7uF 20% | 16V |
| C026 | 1-135-259-11 | TANTALUM CHIP 10uF 20% | 6.3V | C217 | 1-135-091-00 | TANTALUM CHIP 1uF 20% | 16V |
| C027 | 1-164-858-11 | CERAMIC CHIP 22PF 5% | 16V | C219 | 1-135-259-11 | TANTALUM CHIP 10uF 20% | 6.3V |
| C101 | 1-104-851-11 | TANTALUM CHIP 10uF 20% | 10V | C221 | 1-164-943-11 | CERAMIC CHIP 0.01uF 10% | 16V |
| C102 | 1-164-943-11 | CERAMIC CHIP 0.01uF 10% | 16V | C222 | 1-109-982-11 | CERAMIC CHIP 1uF 10% | 10V |
| C103 | 1-135-259-11 | TANTALUM CHIP 10uF 20% | 6.3V | C225 | 1-135-099-91 | TANTALUM CHIP 2.2uF 20% | 6.3V |
| C104 | 1-135-259-11 | TANTALUM CHIP 10uF 20% | 6.3V | C226 | 1-109-982-11 | CERAMIC CHIP 1uF 10% | 10V |
| C105 | 1-164-943-11 | CERAMIC CHIP 0.01uF 10% | 16V | C229 | 1-107-823-11 | CERAMIC CHIP 0.47uF 10% | 16V |
| C106 | 1-119-750-11 | TANTALUM CHIP 22uF 20% | 6.3V | C230 | 1-135-259-11 | TANTALUM CHIP 10uF 20% | 6.3V |
| C107 | 1-164-856-81 | CERAMIC CHIP 18PF 5% | 16V | C231 | 1-164-245-11 | CERAMIC CHIP 0.015uF 10% | 25V |
| C108 | 1-109-982-11 | CERAMIC CHIP 1uF 10% | 10V | C232 | 1-164-245-11 | CERAMIC CHIP 0.015uF 10% | 25V |
| C109 | 1-164-874-11 | CERAMIC CHIP 100PF 5% | 16V | C233 | 1-164-943-11 | CERAMIC CHIP 0.01uF 10% | 16V |
| C110 | 1-164-943-11 | CERAMIC CHIP 0.01uF 10% | 16V | C234 | 1-164-943-11 | CERAMIC CHIP 0.01uF 10% | 16V |
| C111 | 1-164-943-11 | CERAMIC CHIP 0.01uF 10% | 16V | C235 | 1-164-943-11 | CERAMIC CHIP 0.01uF 10% | 16V |
| C112 | 1-135-210-11 | TANTALUM CHIP 4.7uF 20% | 10V | C236 | 1-135-259-11 | TANTALUM CHIP 10uF 20% | 6.3V |
| C113 | 1-135-210-11 | TANTALUM CHIP 4.7uF 20% | 10V | C237 | 1-135-259-11 | TANTALUM CHIP 10uF 20% | 6.3V |
| C115 | 1-164-874-11 | CERAMIC CHIP 100PF 5% | 16V | C238 | 1-135-259-11 | TANTALUM CHIP 10uF 20% | 6.3V |
| C116 | 1-164-937-11 | CERAMIC CHIP 0.001uF 10% | 16V | C239 | 1-164-943-11 | CERAMIC CHIP 0.01uF 10% | 16V |
| C117 | 1-109-982-11 | CERAMIC CHIP 1uF 10% | 10V | C240 | 1-135-259-11 | TANTALUM CHIP 10uF 20% | 6.3V |
| C118 | 1-164-943-11 | CERAMIC CHIP 0.01uF 10% | 16V | C242 | 1-164-943-11 | CERAMIC CHIP 0.01uF 10% | 16V |

| Ref. No. | Part No. | Description | Remarks | Ref. No. | Part No. | Description | Remarks |
|----------|--------------|---------------|------------------|----------|--------------|---------------------------------|-----------------|
| C243 | 1-164-943-11 | CERAMIC CHIP | 0.01uF 10% 16V | C362 | 1-164-227-11 | CERAMIC CHIP | 0.022uF 10% 25V |
| C244 | 1-135-259-11 | TANTALUM CHIP | 10uF 20% 6.3V | C401 | 1-164-943-11 | CERAMIC CHIP | 0.01uF 10% 16V |
| C245 | 1-135-259-11 | TANTALUM CHIP | 10uF 20% 6.3V | C402 | 1-164-943-11 | CERAMIC CHIP | 0.01uF 10% 16V |
| C247 | 1-164-943-11 | CERAMIC CHIP | 0.01uF 10% 16V | C403 | 1-125-899-11 | TANTALUM CHIP | 220uF 20% 4V |
| C248 | 1-125-777-11 | CERAMIC CHIP | 0.1uF 10% 10V | C404 | 1-164-943-11 | CERAMIC CHIP | 0.01uF 10% 16V |
| C249 | 1-125-777-11 | CERAMIC CHIP | 0.1uF 10% 10V | C405 | 1-162-970-11 | CERAMIC CHIP | 0.01uF 10% 25V |
| C250 | 1-125-777-11 | CERAMIC CHIP | 0.1uF 10% 10V | C406 | 1-109-982-11 | CERAMIC CHIP | 1uF 10% 10V |
| C301 | 1-107-826-91 | CERAMIC CHIP | 0.1uF 10% 16V | C407 | 1-164-943-11 | CERAMIC CHIP | 0.01uF 10% 16V |
| C302 | 1-162-970-11 | CERAMIC CHIP | 0.01uF 10% 25V | C501 | 1-135-099-91 | TANTALUM CHIP | 2.2uF 20% 6.3V |
| C303 | 1-109-982-11 | CERAMIC CHIP | 1uF 10% 10V | C502 | 1-165-176-11 | CERAMIC CHIP | 0.047uF 10% 16V |
| C304 | 1-109-982-11 | CERAMIC CHIP | 1uF 10% 10V | C503 | 1-164-937-11 | CERAMIC CHIP | 0.001uF 10% 16V |
| C305 | 1-125-838-91 | CERAMIC CHIP | 2.2uF 10% 6.3V | C504 | 1-135-259-11 | TANTALUM CHIP | 10uF 20% 6.3V |
| C306 | 1-162-964-11 | CERAMIC CHIP | 0.001uF 10% 50V | C505 | 1-164-943-11 | CERAMIC CHIP | 0.01uF 10% 16V |
| C307 | 1-162-964-11 | CERAMIC CHIP | 0.001uF 10% 50V | C506 | 1-135-259-11 | TANTALUM CHIP | 10uF 20% 6.3V |
| C308 | 1-109-982-11 | CERAMIC CHIP | 1uF 10% 10V | C507 | 1-135-259-11 | TANTALUM CHIP | 10uF 20% 6.3V |
| C309 | 1-164-935-11 | CERAMIC CHIP | 470PF 10% 16V | C508 | 1-164-937-11 | CERAMIC CHIP | 0.001uF 10% 16V |
| C310 | 1-162-927-11 | CERAMIC CHIP | 100PF 5% 50V | C509 | 1-164-937-11 | CERAMIC CHIP | 0.001uF 10% 16V |
| C311 | 1-164-935-11 | CERAMIC CHIP | 470PF 10% 16V | C510 | 1-218-945-11 | RES,CHIP | 220 5% 1/16W |
| C312 | 1-164-935-11 | CERAMIC CHIP | 470PF 10% 16V | C511 | 1-164-852-11 | CERAMIC CHIP | 12PF 5% 16V |
| C313 | 1-104-913-11 | TANTALUM CHIP | 10uF 20% 16V | C512 | 1-164-852-11 | CERAMIC CHIP | 12PF 5% 16V |
| C314 | 1-104-913-11 | TANTALUM CHIP | 10uF 20% 16V | C513 | 1-164-943-11 | CERAMIC CHIP | 0.01uF 10% 16V |
| C315 | 1-163-809-11 | CERAMIC CHIP | 0.047uF 10% 25V | C514 | 1-164-943-11 | CERAMIC CHIP | 0.01uF 10% 16V |
| C319 | 1-162-964-11 | CERAMIC CHIP | 0.001uF 10% 50V | C515 | 1-135-259-11 | TANTALUM CHIP | 10uF 20% 6.3V |
| C322 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF 10% 50V | C516 | 1-164-943-11 | CERAMIC CHIP | 0.01uF 10% 16V |
| C324 | 1-109-982-11 | CERAMIC CHIP | 1uF 10% 10V | C517 | 1-164-943-11 | CERAMIC CHIP | 0.01uF 10% 16V |
| C329 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF 10% 50V | C519 | 1-125-777-11 | CERAMIC CHIP | 0.1uF 10% 10V |
| C330 | 1-162-970-11 | CERAMIC CHIP | 0.01uF 10% 25V | C521 | 1-164-943-11 | CERAMIC CHIP | 0.01uF 10% 16V |
| C331 | 1-162-970-11 | CERAMIC CHIP | 0.01uF 10% 25V | C522 | 1-109-982-11 | CERAMIC CHIP | 1uF 10% 10V |
| C332 | 1-115-566-11 | CERAMIC CHIP | 4.7uF 10% 10V | C523 | 1-164-882-11 | CERAMIC CHIP | 220PF 5% 16V |
| C333 | 1-115-566-11 | CERAMIC CHIP | 4.7uF 10% 10V | C601 | 1-164-937-11 | CERAMIC CHIP | 0.001uF 10% 16V |
| C334 | 1-115-566-11 | CERAMIC CHIP | 4.7uF 10% 10V | C602 | 1-164-852-11 | CERAMIC CHIP | 12PF 5% 16V |
| C335 | 1-115-566-11 | CERAMIC CHIP | 4.7uF 10% 10V | C603 | 1-164-852-11 | CERAMIC CHIP | 12PF 5% 16V |
| C336 | 1-115-566-11 | CERAMIC CHIP | 4.7uF 10% 10V | C604 | 1-109-982-11 | CERAMIC CHIP | 1uF 10% 10V |
| C337 | 1-115-566-11 | CERAMIC CHIP | 4.7uF 10% 10V | C605 | 1-218-945-11 | RES,CHIP | 220 5% 1/16W |
| C338 | 1-135-259-11 | TANTALUM CHIP | 10uF 20% 6.3V | C606 | 1-218-945-11 | RES,CHIP | 220 5% 1/16W |
| C339 | 1-135-259-11 | TANTALUM CHIP | 10uF 20% 6.3V | C701 | 1-107-820-11 | CERAMIC CHIP | 0.1uF 16V |
| C340 | 1-135-259-11 | TANTALUM CHIP | 10uF 20% 6.3V | C702 | 1-107-820-11 | CERAMIC CHIP | 0.1uF 16V |
| C341 | 1-104-851-11 | TANTALUM CHIP | 10uF 20% 10V | C703 | 1-107-820-11 | CERAMIC CHIP | 0.1uF 16V |
| C342 | 1-135-259-11 | TANTALUM CHIP | 10uF 20% 6.3V | C704 | 1-104-847-11 | TANTALUM CHIP | 22uF 20% 4V |
| C343 | 1-104-851-11 | TANTALUM CHIP | 10uF 20% 10V | C705 | 1-104-851-11 | TANTALUM CHIP | 10uF 20% 10V |
| C344 | 1-107-819-11 | CERAMIC CHIP | 0.022uF 10% 16V | C706 | 1-164-943-11 | CERAMIC CHIP | 0.01uF 10% 16V |
| C345 | 1-107-819-11 | CERAMIC CHIP | 0.022uF 10% 16V | C707 | 1-164-943-11 | CERAMIC CHIP | 0.01uF 10% 16V |
| C346 | 1-104-851-11 | TANTALUM CHIP | 10uF 20% 10V | C708 | 1-164-943-11 | CERAMIC CHIP | 0.01uF 10% 16V |
| C347 | 1-135-259-11 | TANTALUM CHIP | 10uF 20% 6.3V | C709 | 1-107-819-11 | CERAMIC CHIP | 0.022uF 10% 16V |
| C348 | 1-164-943-11 | CERAMIC CHIP | 0.01uF 10% 16V | C712 | 1-107-820-11 | CERAMIC CHIP | 0.1uF 16V |
| C349 | 1-135-091-00 | TANTALUM CHIP | 1uF 20% 16V | C713 | 1-164-943-11 | CERAMIC CHIP | 0.01uF 10% 16V |
| C350 | 1-135-091-00 | TANTALUM CHIP | 1uF 20% 16V | C714 | 1-107-820-11 | CERAMIC CHIP | 0.1uF 16V |
| C351 | 1-164-943-11 | CERAMIC CHIP | 0.01uF 10% 16V | C715 | 1-107-820-11 | CERAMIC CHIP | 0.1uF 16V |
| C352 | 1-164-943-11 | CERAMIC CHIP | 0.01uF 10% 16V | C801 | 1-164-943-11 | CERAMIC CHIP | 0.01uF 10% 16V |
| C353 | 1-135-091-00 | TANTALUM CHIP | 1uF 20% 16V | | | | |
| C355 | 1-115-566-11 | CERAMIC CHIP | 4.7uF 10% 10V | | | < CONNECTOR > | |
| C356 | 1-115-566-11 | CERAMIC CHIP | 4.7uF 10% 10V | CN701 | 1-770-305-11 | CONNECTOR,FFC/FPC 10P | |
| C357 | 1-115-566-11 | CERAMIC CHIP | 4.7uF 10% 10V | CN801 | 1-779-523-11 | CONNECTOR,SQUARE TYPE (INDI) 4P | (DV IN/OUT) |
| C359 | 1-135-259-11 | TANTALUM CHIP | 10uF 20% 6.3V | CN802 | 1-573-290-21 | PIN CONNECTOR (1.5MM) (SMD) 4P | |
| C361 | 1-110-563-11 | CERAMIC CHIP | 0.068uF 10% 16V | CN905 | 1-750-321-41 | CONNECTOR,BOARD TO BOARD 20P | |

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| Ref. No. | Part No. | Description | Remarks | Ref. No. | Part No. | Description | Remarks |
|----------|--------------|-----------------------|---------|----------|--------------|--|---------|
| | | < DIODE > | | | | | |
| D101 | 8-719-071-32 | DIODE HVC350BTRF | | FL501 | 1-234-177-21 | FERRITE,CHIP EMI | |
| D102 | 8-719-071-32 | DIODE HVC350BTRF | | FL503 | 1-234-177-21 | FERRITE,CHIP EMI | |
| D302 | 8-719-066-34 | DIODE RB461F-T106 | | FL504 | 1-234-177-21 | FERRITE,CHIP EMI | |
| D303 | 8-719-066-34 | DIODE RB461F-T106 | | FL505 | 1-234-177-21 | FERRITE,CHIP EMI | |
| D304 | 8-719-066-16 | DIODE RB491D-T146 | | FL601 | 1-234-177-21 | FERRITE,CHIP EMI | |
| D501 | 8-719-055-86 | DIODE KV1470TL1-3 | | FL701 | 1-234-177-21 | FERRITE,CHIP EMI | |
| D701 | 8-719-421-27 | DIODE MA728-TX | | | | < IC > | |
| D702 | 8-719-056-23 | DIODE MA2S111-(K8).SO | | IC001 | 8-759-534-25 | IC AN2222FBQ-EB | |
| D703 | 8-719-064-61 | DIODE 01BZA8.2(TE85L) | | IC002 | 8-759-432-78 | IC MM1111XFBE | |
| D705 | 8-719-064-61 | DIODE 01BZA8.2(TE85L) | | IC101 | 8-759-430-57 | IC M62367GP-75ED | |
| D706 | 8-719-064-61 | DIODE 01BZA8.2(TE85L) | | IC102 | 8-759-579-81 | IC SC371053AFTAEB | |
| D707 | 8-719-064-61 | DIODE 01BZA8.2(TE85L) | | IC201 | 8-759-583-66 | IC AN2902FHQBEB | |
| D801 | 8-719-064-61 | DIODE 01BZA8.2(TE85L) | | IC202 | 8-759-524-60 | IC AK4512-VF-E2 | |
| D802 | 8-719-064-61 | DIODE 01BZA8.2(TE85L) | | IC301 | 8-759-060-93 | IC MB3785APFV-G-BND-ER | |
| | | < FUSE > | | IC401 | 8-759-584-66 | IC M65511AWG-600D | |
| △ F301 | 1-533-760-21 | FUSE (SMD)(1.4A) | | IC501 | 8-759-584-36 | IC HG73C050BPTL | |
| | | < FERRITE BEAD > | | IC502 | 8-752-394-00 | IC CXD3129R-T6 | |
| * FB301 | 1-500-449-21 | BEAD,FERRITE | OUH | IC503 | 8-759-566-52 | IC SN104266PN-TEB | |
| * FB302 | 1-500-449-21 | BEAD,FERRITE | OUH | IC601 | 8-759-653-34 | IC MB91191RPFF-G-151-BND-ER | |
| FB739 | 1-414-555-21 | FERRITE,EMI | OUH | IC602 | 8-759-445-94 | IC AK6480AM-E2 | |
| FB740 | 1-414-555-21 | FERRITE,EMI | OUH | IC701 | 8-759-424-79 | IC S-8423YFS-T2 | |
| FB741 | 1-414-555-21 | FERRITE,EMI | OUH | IC702 | 8-759-536-45 | IC TL1596CPW-ELM2000 | |
| FB742 | 1-414-555-21 | FERRITE,EMI | OUH | IC703 | 8-759-653-33 | IC S579195PZ-TEB | |
| FB743 | 1-414-555-21 | FERRITE,EMI | OUH | IC704 | 8-759-524-29 | IC TC74VHC257FT(EL) | |
| FB744 | 1-414-555-21 | FERRITE,EMI | OUH | | | < JACK > | |
| * FB746 | 1-469-092-11 | FERRITE,EMI | OUH | J301 | 1-770-443-11 | JACK,DC(POLARITY UNIFIED TYPE)(DC IN 6V) | |
| * FB747 | 1-469-092-11 | FERRITE,EMI | OUH | J802 | 1-785-511-11 | AV JACK(S-VIDEO/VIDEO/AUDIO) | |
| FB748 | 1-414-555-21 | FERRITE,EMI | OUH | | | < INDUCTOR > | |
| FB801 | 1-469-108-21 | FERRITE,EMI | OUH | L001 | 1-414-754-11 | INDUCTOR 10uH | |
| FB802 | 1-469-108-21 | FERRITE,EMI | OUH | L002 | 1-414-754-11 | INDUCTOR 10uH | |
| FB803 | 1-469-108-21 | FERRITE,EMI | OUH | L101 | 1-414-754-11 | INDUCTOR 10uH | |
| FB804 | 1-469-108-21 | FERRITE,EMI | OUH | L102 | 1-414-757-11 | INDUCTOR 100uH | |
| FB805 | 1-469-311-22 | BEAD,FERRITE | OUH | L103 | 1-412-957-11 | INDUCTOR,SMALL TYPE 33uH | |
| FB806 | 1-500-113-22 | BEAD,FERRITE | OUH | L104 | 1-412-943-81 | INDUCTOR 2.2uH | |
| FB807 | 1-469-311-22 | BEAD,FERRITE | OUH | L105 | 1-412-957-11 | INDUCTOR,SMALL TYPE 33uH | |
| FB808 | 1-469-311-22 | BEAD,FERRITE | OUH | L106 | 1-414-754-11 | INDUCTOR 10uH | |
| FB809 | 1-469-311-22 | BEAD,FERRITE | OUH | L201 | 1-414-754-11 | INDUCTOR 10uH | |
| FB810 | 1-469-311-22 | BEAD,FERRITE | OUH | L202 | 1-414-754-11 | INDUCTOR 10uH | |
| FB811 | 1-469-311-22 | BEAD,FERRITE | OUH | L203 | 1-414-754-11 | INDUCTOR 10uH | |
| FB812 | 1-500-113-22 | BEAD,FERRITE | OUH | L305 | 1-416-345-11 | COIL,CHOKE 22uH | |
| FB813 | 1-500-113-22 | BEAD,FERRITE | OUH | L306 | 1-416-345-11 | COIL,CHOKE 22uH | |
| FB814 | 1-500-113-22 | BEAD,FERRITE | OUH | L307 | 1-416-345-11 | COIL,CHOKE 22uH | |
| FB815 | 1-500-113-22 | BEAD,FERRITE | OUH | L308 | 1-412-056-11 | INDUCTOR(SMD) 4.7uH | |
| FB816 | 1-469-311-22 | BEAD,FERRITE | OUH | L309 | 1-412-056-11 | INDUCTOR(SMD) 4.7uH | |
| FB817 | 1-469-311-22 | BEAD,FERRITE | OUH | L310 | 1-412-056-11 | INDUCTOR(SMD) 4.7uH | |
| FB818 | 1-469-311-22 | BEAD,FERRITE | OUH | L311 | 1-412-056-11 | INDUCTOR(SMD) 4.7uH | |
| FB819 | 1-469-311-22 | BEAD,FERRITE | OUH | L312 | 1-412-056-11 | INDUCTOR(SMD) 4.7uH | |
| | | < FILTER > | | L313 | 1-412-056-11 | INDUCTOR(SMD) 4.7uH | |
| FL101 | 1-234-177-21 | FERRITE,CHIP EMI | | L314 | 1-412-056-11 | INDUCTOR(SMD) 4.7uH | |
| FL301 | 1-233-893-11 | FERRITE,CHIP EMI | | L315 | 1-412-056-11 | INDUCTOR(SMD) 4.7uH | |
| FL401 | 1-234-177-21 | FERRITE,CHIP EMI | | L316 | 1-412-056-11 | INDUCTOR(SMD) 4.7uH | |
| FL402 | 1-234-177-21 | FERRITE,CHIP EMI | | L401 | 1-414-757-11 | INDUCTOR 100uH | |
| FL404 | 1-234-177-21 | FERRITE,CHIP EMI | | * L402 | 1-414-482-21 | INDUCTOR CHIP 82NH | |

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| <p>Note : The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.</p> | <p>Note : Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.</p> |
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| Ref. No. | Part No. | Description | Remarks | Ref. No. | Part No. | Description | Remarks |
|----------|--------------|--------------------|--------------------|----------|--------------|------------------|----------|
| L403 | 1-414-757-11 | INDUCTOR | 100uH | R007 | 1-218-953-11 | RES,CHIP 1K | 5% 1/16W |
| L501 | 1-414-754-11 | INDUCTOR | 10uH | R008 | 1-218-990-11 | CONDUCTOR,CHIP 0 | |
| L502 | 1-414-754-11 | INDUCTOR | 10uH | R009 | 1-218-990-11 | CONDUCTOR,CHIP 0 | |
| L503 | 1-414-754-11 | INDUCTOR | 10uH | R010 | 1-218-969-11 | RES,CHIP 22K | 5% 1/16W |
| L504 | 1-412-941-11 | INDUCTOR | 1.5uH | R011 | 1-218-941-11 | RES,CHIP 100 | 5% 1/16W |
| L505 | 1-414-754-11 | INDUCTOR | 10uH | R012 | 1-218-941-11 | RES,CHIP 100 | 5% 1/16W |
| L601 | 1-414-754-11 | INDUCTOR | 10uH | R013 | 1-218-941-11 | RES,CHIP 100 | 5% 1/16W |
| L701 | 1-414-754-11 | INDUCTOR | 10uH | R014 | 1-218-953-11 | RES,CHIP 1K | 5% 1/16W |
| | | < LINE FILTER > | | R015 | 1-218-953-11 | RES,CHIP 1K | 5% 1/16W |
| | | | | R016 | 1-218-965-11 | RES,CHIP 10K | 5% 1/16W |
| LF301 | 1-411-957-11 | FILTER,COMMON MODE | | R017 | 1-218-939-11 | RES,CHIP 68 | 5% 1/16W |
| | | < IC LINK > | | R018 | 1-218-939-11 | RES,CHIP 68 | 5% 1/16W |
| | | | | R019 | 1-218-939-11 | RES,CHIP 68 | 5% 1/16W |
| △ PS701 | 1-576-122-21 | LINK,IC 0.4A | | R020 | 1-218-981-11 | RES,CHIP 220K | 5% 1/16W |
| | | < TRANSISTOR > | | R021 | 1-218-941-11 | RES,CHIP 100 | 5% 1/16W |
| | | | | R023 | 1-218-961-11 | RES,CHIP 4.7K | 5% 1/16W |
| Q003 | 8-729-042-70 | TRANSISTOR | UN9211J-(K8).SO | R024 | 1-218-961-11 | RES,CHIP 4.7K | 5% 1/16W |
| Q004 | 8-729-042-28 | TRANSISTOR | 2SD2216J-QR(K8).SO | R028 | 1-218-953-11 | RES,CHIP 1K | 5% 1/16W |
| Q101 | 8-729-807-94 | TRANSISTOR | 2SB1295-UL5-TB | R029 | 1-218-957-11 | RES,CHIP 2.2K | 5% 1/16W |
| Q102 | 8-729-042-73 | TRANSISTOR | UN9215J-(K8).SO | R030 | 1-218-939-11 | RES,CHIP 68 | 5% 1/16W |
| Q103 | 8-729-042-28 | TRANSISTOR | 2SD2216J-QR(K8).SO | R031 | 1-218-989-11 | RES,CHIP 1M | 5% 1/16W |
| Q104 | 8-729-042-26 | TRANSISTOR | 2SB1462J-QR(K8).SO | R101 | 1-218-973-11 | RES,CHIP 47K | 5% 1/16W |
| Q105 | 8-729-042-28 | TRANSISTOR | 2SD2216J-QR(K8).SO | R102 | 1-218-965-11 | RES,CHIP 10K | 5% 1/16W |
| Q106 | 8-729-042-28 | TRANSISTOR | 2SD2216J-QR(K8).SO | R103 | 1-218-953-11 | RES,CHIP 1K | 5% 1/16W |
| Q107 | 8-729-042-28 | TRANSISTOR | 2SD2216J-QR(K8).SO | R104 | 1-218-959-11 | RES,CHIP 3.3K | 5% 1/16W |
| Q108 | 8-729-042-28 | TRANSISTOR | 2SD2216J-QR(K8).SO | R105 | 1-218-957-11 | RES,CHIP 2.2K | 5% 1/16W |
| Q109 | 8-729-042-26 | TRANSISTOR | 2SB1462J-QR(K8).SO | R106 | 1-218-953-11 | RES,CHIP 1K | 5% 1/16W |
| Q110 | 8-729-807-94 | TRANSISTOR | 2SB1295-UL5-TB | R107 | 1-218-979-11 | RES,CHIP 150K | 5% 1/16W |
| Q201 | 8-729-042-32 | TRANSISTOR | UN9113J-(K8).SO | R108 | 1-218-959-11 | RES,CHIP 3.3K | 5% 1/16W |
| Q202 | 8-729-042-69 | TRANSISTOR | UN9210J-(K8).SO | R109 | 1-218-965-11 | RES,CHIP 10K | 5% 1/16W |
| Q203 | 8-729-042-69 | TRANSISTOR | UN9210J-(K8).SO | R110 | 1-218-953-11 | RES,CHIP 1K | 5% 1/16W |
| Q205 | 8-729-041-23 | TRANSISTOR | NDS356AP | R111 | 1-218-990-11 | CONDUCTOR,CHIP 0 | |
| Q206 | 8-729-042-31 | TRANSISTOR | UN9213J-(K8).SO | R112 | 1-218-953-11 | RES,CHIP 1K | 5% 1/16W |
| Q207 | 8-729-041-23 | TRANSISTOR | NDS356AP | R113 | 1-218-977-11 | RES,CHIP 100K | 5% 1/16W |
| Q208 | 8-729-042-31 | TRANSISTOR | UN9213J-(K8).SO | R114 | 1-218-989-11 | RES,CHIP 1M | 5% 1/16W |
| Q209 | 8-729-042-70 | TRANSISTOR | UN9211J-(K8).SO | R115 | 1-218-977-11 | RES,CHIP 100K | 5% 1/16W |
| Q302 | 8-729-043-94 | TRANSISTOR | CPH3106-PM-TL | R116 | 1-218-977-11 | RES,CHIP 100K | 5% 1/16W |
| Q303 | 8-729-043-94 | TRANSISTOR | CPH3106-PM-TL | R117 | 1-218-965-11 | RES,CHIP 10K | 5% 1/16W |
| Q304 | 8-729-043-94 | TRANSISTOR | CPH3106-PM-TL | R118 | 1-218-965-11 | RES,CHIP 10K | 5% 1/16W |
| Q305 | 8-729-041-23 | TRANSISTOR | NDS356AP | R119 | 1-218-977-11 | RES,CHIP 100K | 5% 1/16W |
| Q306 | 8-729-042-31 | TRANSISTOR | UN9213J-(K8).SO | R120 | 1-218-950-11 | RES,CHIP 560 | 5% 1/16W |
| Q307 | 8-729-042-31 | TRANSISTOR | UN9213J-(K8).SO | R121 | 1-216-864-11 | RES,CHIP 0 | 5% 1/16W |
| Q308 | 8-729-041-23 | TRANSISTOR | NDS356AP | R122 | 1-218-953-11 | RES,CHIP 1K | 5% 1/16W |
| Q701 | 8-729-042-58 | TRANSISTOR | UN9111J-(K8).SO | R123 | 1-218-952-11 | RES,CHIP 820 | 5% 1/16W |
| Q702 | 8-729-042-70 | TRANSISTOR | UN9211J-(K8).SO | R124 | 1-218-965-11 | RES,CHIP 10K | 5% 1/16W |
| Q703 | 8-729-042-70 | TRANSISTOR | UN9211J-(K8).SO | R127 | 1-218-990-11 | CONDUCTOR,CHIP 0 | |
| Q704 | 8-729-042-70 | TRANSISTOR | UN9211J-(K8).SO | R128 | 1-218-990-11 | CONDUCTOR,CHIP 0 | |
| Q705 | 8-729-042-70 | TRANSISTOR | UN9211J-(K8).SO | R201 | 1-218-953-11 | RES,CHIP 1K | 5% 1/16W |
| Q951 | 8-729-042-72 | TRANSISTOR | UN9214J-(K8).SO | R202 | 1-218-953-11 | RES,CHIP 1K | 5% 1/16W |
| | | < RESISTOR > | | R203 | 1-218-973-11 | RES,CHIP 47K | 5% 1/16W |
| R002 | 1-218-965-11 | RES,CHIP | 10K | 5% | 1/16W | | |
| R003 | 1-218-941-11 | RES,CHIP | 100 | 5% | 1/16W | | |
| R004 | 1-218-969-11 | RES,CHIP | 22K | 5% | 1/16W | | |
| R005 | 1-218-953-11 | RES,CHIP | 1K | 5% | 1/16W | | |
| R006 | 1-218-990-11 | CONDUCTOR,CHIP | 0 | | | | |
| | | | | R204 | 1-218-973-11 | RES,CHIP 47K | 5% 1/16W |
| | | | | R205 | 1-218-965-11 | RES,CHIP 10K | 5% 1/16W |
| | | | | R206 | 1-218-965-11 | RES,CHIP 10K | 5% 1/16W |
| | | | | R207 | 1-218-973-11 | RES,CHIP 47K | 5% 1/16W |
| | | | | R209 | 1-218-990-11 | CONDUCTOR,CHIP 0 | |

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| <p>Note : The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.</p> | <p>Note : Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.</p> |
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IFX-52

| Ref. No. | Part No. | Description | Quantity | Unit | Remarks | Ref. No. | Part No. | Description | Quantity | Unit | Remarks |
|----------|--------------|----------------|----------|-------|---------|----------|--------------|----------------|----------|-------|---------|
| R210 | 1-218-941-11 | RES,CHIP | 100 | 5% | 1/16W | R370 | 1-216-295-91 | CONDUCTOR,CHIP | 0 | | |
| R212 | 1-218-949-11 | RES,CHIP | 470 | 5% | 1/16W | R401 | 1-216-864-11 | RES,CHIP | 0 | 5% | 1/16W |
| R213 | 1-218-941-11 | RES,CHIP | 100 | 5% | 1/16W | R402 | 1-218-977-11 | RES,CHIP | 100K | 5% | 1/16W |
| R214 | 1-218-949-11 | RES,CHIP | 470 | 5% | 1/16W | R403 | 1-218-959-11 | RES,CHIP | 3.3K | 5% | 1/16W |
| R215 | 1-218-990-11 | CONDUCTOR,CHIP | 0 | | | R404 | 1-218-959-11 | RES,CHIP | 3.3K | 5% | 1/16W |
| R216 | 1-218-990-11 | CONDUCTOR,CHIP | 0 | | | R405 | 1-216-864-11 | RES,CHIP | 0 | 5% | 1/16W |
| R217 | 1-218-990-11 | CONDUCTOR,CHIP | 0 | | | R406 | 1-218-990-11 | CONDUCTOR,CHIP | 0 | | |
| R219 | 1-218-989-11 | RES,CHIP | 1M | 5% | 1/16W | R407 | 1-218-965-11 | RES,CHIP | 10K | 5% | 1/16W |
| R220 | 1-218-979-11 | RES,CHIP | 150K | 5% | 1/16W | R408 | 1-218-965-11 | RES,CHIP | 10K | 5% | 1/16W |
| R221 | 1-218-989-11 | RES,CHIP | 1M | 5% | 1/16W | R409 | 1-218-965-11 | RES,CHIP | 10K | 5% | 1/16W |
| R222 | 1-218-979-11 | RES,CHIP | 150K | 5% | 1/16W | R410 | 1-218-951-11 | RES,CHIP | 680 | 5% | 1/16W |
| R223 | 1-218-990-11 | CONDUCTOR,CHIP | 0 | | | R411 | 1-218-947-11 | RES,CHIP | 330 | 5% | 1/16W |
| R301 | 1-208-903-81 | RES,CHIP | 4.7K | 0.50% | 1/16W | R416 | 1-218-990-11 | CONDUCTOR,CHIP | 0 | | |
| R302 | 1-208-903-81 | RES,CHIP | 4.7K | 0.50% | 1/16W | R417 | 1-218-965-11 | RES,CHIP | 10K | 5% | 1/16W |
| R303 | 1-208-903-81 | RES,CHIP | 4.7K | 0.50% | 1/16W | R418 | 1-218-965-11 | RES,CHIP | 10K | 5% | 1/16W |
| R304 | 1-208-903-81 | RES,CHIP | 4.7K | 0.50% | 1/16W | R419 | 1-218-965-11 | RES,CHIP | 10K | 5% | 1/16W |
| R305 | 1-218-979-11 | RES,CHIP | 150K | 5% | 1/16W | R501 | 1-218-937-11 | RES,CHIP | 47 | 5% | 1/16W |
| R306 | 1-218-981-11 | RES,CHIP | 220K | 5% | 1/16W | R502 | 1-218-961-11 | RES,CHIP | 4.7K | 5% | 1/16W |
| R307 | 1-208-895-81 | RES,CHIP | 2.2K | 0.50% | 1/16W | R503 | 1-218-947-11 | RES,CHIP | 330 | 5% | 1/16W |
| R308 | 1-218-981-11 | RES,CHIP | 220K | 5% | 1/16W | R504 | 1-218-965-11 | RES,CHIP | 10K | 5% | 1/16W |
| R309 | 1-218-957-11 | RES,CHIP | 2.2K | 5% | 1/16W | R505 | 1-218-965-11 | RES,CHIP | 10K | 5% | 1/16W |
| R310 | 1-218-957-11 | RES,CHIP | 2.2K | 5% | 1/16W | R506 | 1-218-990-11 | CONDUCTOR,CHIP | 0 | | |
| R312 | 1-208-905-81 | RES,CHIP | 5.6K | 0.50% | 1/16W | R507 | 1-218-990-11 | CONDUCTOR,CHIP | 0 | | |
| R313 | 1-218-974-11 | RES,CHIP | 56K | 5% | 1/16W | R508 | 1-218-990-11 | CONDUCTOR,CHIP | 0 | | |
| R315 | 1-218-955-11 | RES,CHIP | 1.5K | 5% | 1/16W | R509 | 1-218-990-11 | CONDUCTOR,CHIP | 0 | | |
| R316 | 1-218-951-11 | RES,CHIP | 680 | 5% | 1/16W | R510 | 1-218-950-11 | RES,CHIP | 560 | 5% | 1/16W |
| R317 | 1-208-899-81 | RES,CHIP | 3.3K | 0.50% | 1/16W | R512 | 1-218-990-11 | CONDUCTOR,CHIP | 0 | | |
| R318 | 1-208-903-81 | RES,CHIP | 4.7K | 0.50% | 1/16W | R513 | 1-218-990-11 | CONDUCTOR,CHIP | 0 | | |
| R319 | 1-216-023-00 | RES,CHIP | 82 | 5% | 1/10W | R514 | 1-218-990-11 | CONDUCTOR,CHIP | 0 | | |
| R320 | 1-218-969-11 | RES,CHIP | 22K | 5% | 1/16W | R516 | 1-218-990-11 | CONDUCTOR,CHIP | 0 | | |
| R321 | 1-216-023-00 | RES,CHIP | 82 | 5% | 1/10W | R517 | 1-218-990-11 | CONDUCTOR,CHIP | 0 | | |
| R322 | 1-216-023-00 | RES,CHIP | 82 | 5% | 1/10W | R521 | 1-218-990-11 | CONDUCTOR,CHIP | 0 | | |
| R325 | 1-218-967-11 | RES,CHIP | 15K | 5% | 1/16W | R524 | 1-218-990-11 | CONDUCTOR,CHIP | 0 | | |
| R328 | 1-218-974-11 | RES,CHIP | 56K | 5% | 1/16W | R525 | 1-218-990-11 | CONDUCTOR,CHIP | 0 | | |
| R331 | 1-216-296-91 | CONDUCTOR,CHIP | 0 | | | R526 | 1-218-990-11 | CONDUCTOR,CHIP | 0 | | |
| R333 | 1-218-965-11 | RES,CHIP | 10K | 5% | 1/16W | R532 | 1-208-913-81 | RES,CHIP | 12K | 0.50% | 1/16W |
| R334 | 1-216-296-91 | CONDUCTOR,CHIP | 0 | | | R533 | 1-218-990-11 | CONDUCTOR,CHIP | 0 | | |
| R337 | 1-218-990-11 | CONDUCTOR,CHIP | 0 | | | R535 | 1-208-913-81 | RES,CHIP | 12K | 0.50% | 1/16W |
| R338 | 1-218-990-11 | CONDUCTOR,CHIP | 0 | | | R536 | 1-218-990-11 | CONDUCTOR,CHIP | 0 | | |
| R339 | 1-208-903-81 | RES,CHIP | 4.7K | 0.50% | 1/16W | R538 | 1-208-857-81 | RES,CHIP | 56 | 0.50% | 1/16W |
| R340 | 1-208-903-81 | RES,CHIP | 4.7K | 0.50% | 1/16W | R539 | 1-208-857-81 | RES,CHIP | 56 | 0.50% | 1/16W |
| R342 | 1-208-921-81 | RES,CHIP | 27K | 0.50% | 1/16W | R540 | 1-208-911-81 | RES,CHIP | 10K | 0.50% | 1/16W |
| R344 | 1-208-927-11 | RES,CHIP | 47K | 0.50% | 1/16W | R541 | 1-208-857-81 | RES,CHIP | 56 | 0.50% | 1/16W |
| R345 | 1-218-949-11 | RES,CHIP | 470 | 5% | 1/16W | R542 | 1-208-911-81 | RES,CHIP | 10K | 0.50% | 1/16W |
| R346 | 1-218-949-11 | RES,CHIP | 470 | 5% | 1/16W | R543 | 1-208-857-81 | RES,CHIP | 56 | 0.50% | 1/16W |
| R347 | 1-218-949-11 | RES,CHIP | 470 | 5% | 1/16W | R602 | 1-218-985-11 | RES,CHIP | 470K | 5% | 1/16W |
| R352 | 1-218-989-11 | RES,CHIP | 1M | 5% | 1/16W | R603 | 1-218-977-11 | RES,CHIP | 100K | 5% | 1/16W |
| R353 | 1-218-977-11 | RES,CHIP | 100K | 5% | 1/16W | R604 | 1-218-977-11 | RES,CHIP | 100K | 5% | 1/16W |
| R354 | 1-218-989-11 | RES,CHIP | 1M | 5% | 1/16W | R605 | 1-218-977-11 | RES,CHIP | 100K | 5% | 1/16W |
| R355 | 1-218-977-11 | RES,CHIP | 100K | 5% | 1/16W | R606 | 1-218-977-11 | RES,CHIP | 100K | 5% | 1/16W |
| R359 | 1-218-990-11 | CONDUCTOR,CHIP | 0 | | | R607 | 1-218-953-11 | RES,CHIP | 1K | 5% | 1/16W |
| R360 | 1-218-953-11 | RES,CHIP | 1K | 5% | 1/16W | R608 | 1-218-977-11 | RES,CHIP | 100K | 5% | 1/16W |
| R362 | 1-218-990-11 | CONDUCTOR,CHIP | 0 | | | R609 | 1-218-977-11 | RES,CHIP | 100K | 5% | 1/16W |
| R363 | 1-218-953-11 | RES,CHIP | 1K | 5% | 1/16W | R610 | 1-218-985-11 | RES,CHIP | 470K | 5% | 1/16W |
| R364 | 1-218-953-11 | RES,CHIP | 1K | 5% | 1/16W | R611 | 1-218-977-11 | RES,CHIP | 100K | 5% | 1/16W |
| R365 | 1-218-953-11 | RES,CHIP | 1K | 5% | 1/16W | R613 | 1-218-977-11 | RES,CHIP | 100K | 5% | 1/16W |
| R366 | 1-218-990-11 | CONDUCTOR,CHIP | 0 | | | R614 | 1-218-977-11 | RES,CHIP | 100K | 5% | 1/16W |
| R367 | 1-208-883-81 | RES,CHIP | 680 | 0.50% | 1/16W | R615 | 1-218-977-11 | RES,CHIP | 100K | 5% | 1/16W |
| R368 | 1-218-990-11 | CONDUCTOR,CHIP | 0 | | | R616 | 1-218-977-11 | RES,CHIP | 100K | 5% | 1/16W |
| R369 | 1-218-990-11 | CONDUCTOR,CHIP | 0 | | | R701 | 1-218-985-11 | RES,CHIP | 470K | 5% | 1/16W |

| Ref. No. | Part No. | Description | Remarks | Ref. No. | Part No. | Description | Remarks |
|--------------|--------------|----------------|----------|----------|------------------------------------|---------------------------|---------------------------------|
| R703 | 1-218-973-11 | RES,CHIP | 47K 5% | 1/16W | A-8056-556-A | JK-02 BOARD,COMPLETE | |
| R704 | 1-218-973-11 | RES,CHIP | 47K 5% | 1/16W | ***** | | |
| R705 | 1-218-977-11 | RES,CHIP | 100K 5% | 1/16W | < CONNECTOR > | | |
| R706 | 1-218-965-11 | RES,CHIP | 10K 5% | 1/16W | CN893 | 1-568-953-11 | PIN,CONNECTOR 4P |
| R707 | 1-218-958-11 | RES,CHIP | 2.7K 5% | 1/16W | < JACK > | | |
| R708 | 1-218-990-11 | CONDUCTOR,CHIP | 0 | | J881 | 1-565-276-31 | JACK,ULTRA SMALL 1P(LANC) |
| R709 | 1-218-989-11 | RES,CHIP | 1M 5% | 1/16W | A-8054-858-A SWX-22 BOARD,COMPLETE | | |
| R710 | 1-218-977-11 | RES,CHIP | 100K 5% | 1/16W | ***** | | |
| R711 | 1-218-977-11 | RES,CHIP | 100K 5% | 1/16W | < CAPACITOR > | | |
| R712 | 1-218-977-11 | RES,CHIP | 100K 5% | 1/16W | C901 | 1-104-847-11 | TANTALUM CHIP 22uF 20% 4V |
| R715 | 1-218-977-11 | RES,CHIP | 100K 5% | 1/16W | C902 | 1-163-021-91 | CERAMIC CHIP 0.01uF 10% 50V |
| R716 | 1-218-953-11 | RES,CHIP | 1K 5% | 1/16W | < CONNECTOR > | | |
| R717 | 1-218-953-11 | RES,CHIP | 1K 5% | 1/16W | * CN901 | 1-764-895-21 | SOCKET CONNECTOR 10P |
| R718 | 1-218-953-11 | RES,CHIP | 1K 5% | 1/16W | < DIODE > | | |
| R719 | 1-218-989-11 | RES,CHIP | 1M 5% | 1/16W | D901 | 8-719-991-27 | DIODE CL-170G-CD-T |
| R720 | 1-218-989-11 | RES,CHIP | 1M 5% | 1/16W | D902 | 8-719-027-84 | DIODE CL-155UR/G-DT(PROTECT) |
| R721 | 1-218-989-11 | RES,CHIP | 1M 5% | 1/16W | D903 | 8-719-029-45 | DIODE CL-155SD/G-D-T |
| R722 | 1-218-953-11 | RES,CHIP | 1K 5% | 1/16W | < JUMPER RESISTOR > | | |
| R723 | 1-218-973-11 | RES,CHIP | 47K 5% | 1/16W | JR901 | 1-216-296-91 | CONDUCTOR,CHIP 0 |
| R726 | 1-218-977-11 | RES,CHIP | 100K 5% | 1/16W | JR902 | 1-216-295-91 | CONDUCTOR,CHIP 0 |
| R728 | 1-218-977-11 | RES,CHIP | 100K 5% | 1/16W | JR903 | 1-216-296-91 | CONDUCTOR,CHIP 0 |
| R729 | 1-218-949-11 | RES,CHIP | 470 5% | 1/16W | JR904 | 1-216-296-91 | CONDUCTOR,CHIP 0 |
| R734 | 1-218-990-11 | CONDUCTOR,CHIP | 0 | | JR905 | 1-216-296-91 | CONDUCTOR,CHIP 0 |
| R736 | 1-218-990-11 | CONDUCTOR,CHIP | 0 | | JR906 | 1-216-296-91 | CONDUCTOR,CHIP 0 |
| R737 | 1-218-973-11 | RES,CHIP | 47K 5% | 1/16W | JR907 | 1-216-296-91 | CONDUCTOR,CHIP 0 |
| R739 | 1-218-953-11 | RES,CHIP | 1K 5% | 1/16W | JR908 | 1-216-296-91 | CONDUCTOR,CHIP 0 |
| R741 | 1-218-990-11 | CONDUCTOR,CHIP | 0 | | JR909 | 1-216-295-91 | CONDUCTOR,CHIP 0 |
| R798 | 1-218-977-11 | RES,CHIP | 100K 5% | 1/16W | JR910 | 1-216-296-91 | CONDUCTOR,CHIP 0 |
| R799 | 1-218-990-11 | CONDUCTOR,CHIP | 0 | | JR911 | 1-216-296-91 | CONDUCTOR,CHIP 0 |
| R803 | 1-220-882-81 | RES,CHIP | 33 0.50% | 1/16W | < RESISTOR > | | |
| R804 | 1-220-881-81 | RES,CHIP | 30 0.50% | 1/16W | R901 | 1-216-031-00 | RES,CHIP 180 5% 1/10W |
| R805 | 1-220-881-81 | RES,CHIP | 30 0.50% | 1/16W | R902 | 1-216-029-00 | RES,CHIP 150 5% 1/10W |
| R806 | 1-220-882-81 | RES,CHIP | 33 0.50% | 1/16W | R903 | 1-216-073-00 | RES,CHIP 10K 5% 1/10W |
| R807 | 1-220-881-81 | RES,CHIP | 30 0.50% | 1/16W | R905 | 1-216-073-00 | RES,CHIP 10K 5% 1/10W |
| R808 | 1-220-882-81 | RES,CHIP | 33 0.50% | 1/16W | R906 | 1-216-051-00 | RES,CHIP 1.2K 5% 1/10W |
| R809 | 1-218-935-11 | RES,CHIP | 33 5% | 1/16W | R908 | 1-216-053-00 | RES,CHIP 1.5K 5% 1/10W |
| R810 | 1-220-802-11 | RES,CHIP | 3.3 5% | 1/16W | R912 | 1-216-029-00 | RES,CHIP 150 5% 1/10W |
| R811 | 1-220-802-11 | RES,CHIP | 3.3 5% | 1/16W | R914 | 1-216-029-00 | RES,CHIP 150 5% 1/10W |
| R812 | 1-220-802-11 | RES,CHIP | 3.3 5% | 1/16W | < SWITCH > | | |
| R954 | 1-218-990-11 | CONDUCTOR,CHIP | 0 | | S901 | 1-762-366-11 | SWITCH,TACTILE(POWER) |
| < VARISTOR > | | | | S902 | 1-762-366-11 | SWITCH,TACTILE(ANALOG IN) | |
| VDR801 | 1-801-925-21 | VARISTOR,CHIP | | | S905 | 1-762-366-11 | SWITCH,TACTILE(DV IN) |
| VDR802 | 1-801-925-21 | VARISTOR,CHIP | | | ***** | | |
| VDR803 | 1-801-925-21 | VARISTOR,CHIP | | | < VIBRATOR > | | |
| VDR804 | 1-801-864-21 | VARISTOR,CHIP | | | X101 | 1-781-304-41 | VIBRATOR,CRYATAL (40.500000MHz) |
| VDR805 | 1-801-925-21 | VARISTOR,CHIP | | | X401 | 1-781-180-21 | OSCILLATOR(13.5MHz) |
| VDR806 | 1-801-925-21 | VARISTOR,CHIP | | | X501 | 1-579-922-11 | VIBRATOR,CRYATAL(24.576MHz) |
| VDR807 | 1-801-925-21 | VARISTOR,CHIP | | | X601 | 1-760-655-41 | VIBRATOR,CRYATAL(20MHz) |
| VDR808 | 1-801-862-11 | VARISTOR,CHIP | | | X701 | 1-767-450-11 | VIBRATOR,CRYATAL(20MHz) |
| VDR809 | 1-801-862-11 | VARISTOR,CHIP | | | ***** | | |
| VDR810 | 1-801-862-11 | VARISTOR,CHIP | | | < VIBRATOR > | | |
| VDR811 | 1-801-862-11 | VARISTOR,CHIP | | | ***** | | |
| < VIBRATOR > | | | | ***** | | | |

| Ref. No. | Part No. | Description | Remarks |
|----------|----------|------------------------|---------|
| | | MISCELLANEOUS ***** | |

| | | | |
|---|--------------|-------------|--|
| 6 | 1-790-197-11 | FFC (IF-SW) | |
|---|--------------|-------------|--|

ACCESSORIES & PACKING MATERIALS

| | | | |
|---|--------------|--|--|
| △ | 1-467-510-31 | ADAPTOR,AC (AC-MZ60A) | |
| | 1-574-316-11 | CORD,CONNECTION (LANC CABLE)(2m) | |
| | 1-690-852-11 | CORD (WITH CONNECTOR) (AV CABLE)(1.5m) | |
| | 1-777-360-21 | CORD,CONNECTION (S VIDEO CABLE)(1.5m) | |
| | 1-790-930-11 | CORD,CONNECTION (DV CABLE)(2m) | |
| | 3-868-211-11 | MANUAL INSTRUCTION (ENGLISH/FRENCH) | |

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| <p>Note : The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.</p> | <p>Note : Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.</p> |
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