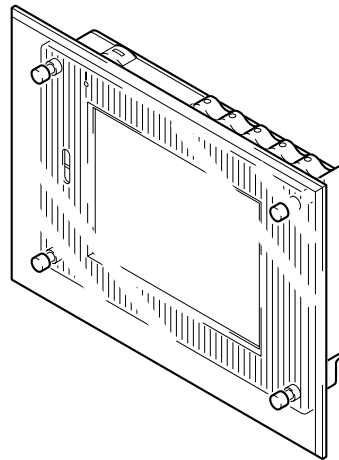


PHD-A55

SERVICE MANUAL

Self Diagnosis
Supported model

Ver 1.1 1999.08



*US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model
Hong Kong Model*



SPECIFICATIONS

System

Memory Memory stick

LCD screen

Screen size 5.5 inch
LCD panel TFT
Total dot number 224640 dots

General

Power requirements 8.4 V
Power consumption During playback: 8.6 W
During standby: 1.6 W
Operation temperature 32°F to + 104°F
(0°C to + 40°C)

Storage temperature

- 4°F to + 140°F
(- 20°C to + 60°C)

Dimensions

Approx. 8 1/2 x 6 1/2 x
1 3/8 in. (215 x 162 x 40
mm) (w/h/d)

Mass

Approx. 2 lb. (900 g)

Speaker

Dynamic Speaker

Supplied accessories

AC power adaptor,
AC-PLM3 (1)
Color frame (1)
Operating Instructions
(1)

Design and specifications are subject to change
without notice.

DIGITAL PHOTO FRAME

SONY®

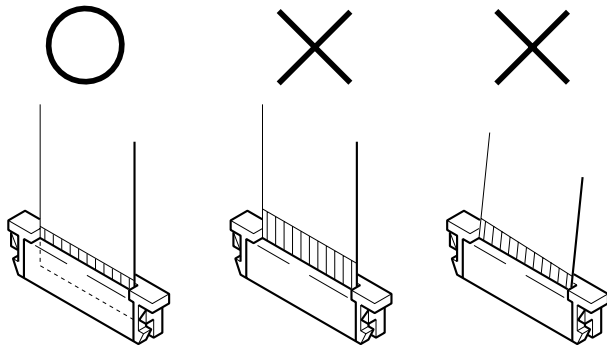


SERVICE NOTE

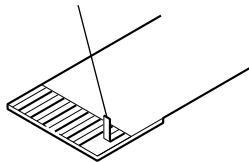
• NOTE FOR REPAIR

Make sure that the flat cable and flexible board are not cracked or bent at the terminal.

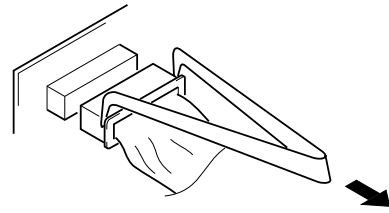
Do not insert the cable insufficiently nor crookedly.



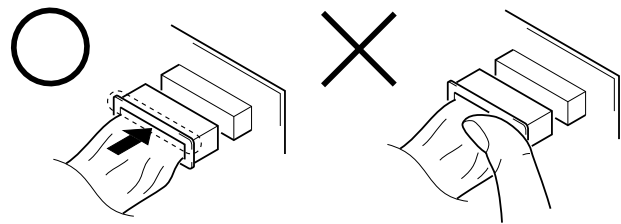
Cut and remove the part of gilt which comes off at the point. (Take care that there are some pieces of gilt left inside)



When remove a connector, don't pull at wire of connector. Be in danger of the snapping of a wire.



When installing a connector, don't press down at wire of connector. Be in danger of the snapping of a wire.



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.

SAFETY CHECK-OUT

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

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
4. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
5. Check the B+ voltage to see it is at the values specified.
6. Flexible Circuit Board Repairing
 - Keep the temperature of the soldering iron around 270 °C during repairing.
 - Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
 - Be careful not to apply force on the conductor when soldering or unsoldering.

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SECTION 1 GENERAL

This section is extracted from instruction manual.

Parts identification

Surface

STANDBY lamp
The STANDBY lamp lights up while the power is turning on and when the display is turned off.

POWER switch/POWER lamp
Press to turn ON/OFF the power.

BRIGHT +/- button
Press to adjust the brightness of the LCD screen.
Press + to brighten the picture.
Press - to darken the picture.

Speaker

Screw

Touchless sensor*
When the LCD screen is off and the STANDBY lamp lights up, you can turn the LCD screen on by placing your palm in front of the touchless sensor within 3 inch (about 7 cm).
When you remove your palm, the LCD screen turns on.
* If you place your palm in front of the touchless sensor for more than 10 seconds, the sensor does not work.

Color frame
The color frame can be switched to the other supplied color frame.

LCD screen
Acrylic board

(Control panel)

ACCESS lamp
The ACCESS lamp lights up red while the unit is accessing the Memory Stick.
Caution
When the ACCESS lamp is flashing, never remove the Memory Stick.

Memory Stick slot

◀ button
Displays the preceding image.

▶ button
Starts or pauses the slide show.

▶ button
Displays the next image.

ROTATE button
When playing back lengthwise or sideways images, rotate the image 90° clockwise to fit them on the LCD screen.
Note
When playing back the slide show or INDEX screen, you cannot rotate the images.

DISPLAY button
Press to display or turn off the indicators on the LCD screen. Each time you press this button, the indicators on the LCD screen change as follows:
Off → Current date and time → Information of the displayed image → Off

Rear

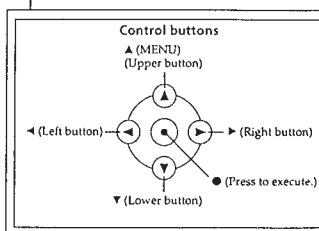
Screw

SLEEP switch
The sleep function is activated and the LCD screen turns off automatically at the predetermined set time as long as you do not perform any additional operation.
Set the operating time of playback (OFF, 30 MIN. or 60 MIN.).

Stand
When using the digital photo frame lengthwise, loosen the fixing screw, then rotate the stand 90° clockwise.
Change the angle of the digital photo frame using the two screws.

To change the color frame

- 1 Remove the 4 screws.
- 2 Remove the acrylic board.
- 3 Remove the color frame and replace with the other supplied color frame.



Functions of the control buttons
You can execute the settings by pressing the control buttons. When an item is selected in the menu, the color of the item changes from blue to yellow. To enter your selection, press the control button ●.

Note on the function of touchless sensor

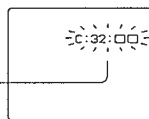
You can set up this unit to turn off the LCD screen with the touchless sensor. While pressing the ▶ button, press the power switch.
If you place your palm within 3 inch (about 7 cm) in front of the sensor for more than 3 seconds, when you remove your palm, the LCD screen will turn off.

Auto LCD screen off

If a image is constantly played back for more than 12 hours, and you do not perform any additional operation on the unit in that time, the LCD screen turns off automatically to prevent the image burn-in on the screen.

Self-diagnosis display

The digital photo frame has a self-diagnosis display. This function displays the digital photo frame condition with five-digits (a combination of a letter and figures) on the LCD screen. If this occurs check the following code chart. The five-digits display informs you of the digital photo frame's current condition. The last two digits (indicated by □□) will differ depending on the state of the digital photo frame.



Self-diagnosis display
• C:□□:□□
You can reverse the digital photo frame malfunction yourself.

First three digits	Cause and/or Corrective Action
C:32:□□	• Trouble is with the hardware. → Turn the power off and on again.
C:13:□□	• An unformatted Memory Stick is installed. → Format the Memory Stick.

Warning and notice messages

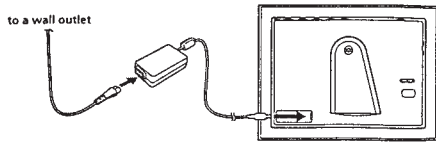
Various messages appear on the LCD screen. Check them with the following list.

Message	Meaning/Remedy
NO MEMORY STICK	• No Memory Stick has been inserted. → Insert a Memory Stick.
SYSTEM ERROR	• Trouble is with the hardware. → Turn on the power again.
MEMORY STICK ERROR	• Trouble is with the Memory Stick. → Insert another Memory Stick.
FORMAT ERROR	• Failed to format the Memory Stick. → Insert the proper Memory Stick.
MEMORY STICK LOCKED	• The tab on the Memory Stick is set to LOCK position. → Set it to recording position.
NO MEMORY SPACE	• The Memory Stick is full, and cannot write the print marks. → Delete images you do not want to keep.
FILE ERROR	• Failed in playing back images. → Delete the file.
FILE PROTECT	• The image is protected. → Release protection of the image.
NO FILE	• No image has been recorded on the Memory Stick. → Insert the recorded Memory Stick. → Insert the proper Memory Stick.

Precautions

When images recorded with DCR-TRV900/TRV900E or DSC-D700 and images recorded with the other units are on the same Memory Stick, the images recorded with DCR-TRV900/TRV900E or DSC-D700 are not played back.
The images processed with a computer may not be played back.
You cannot display INDEX screen, rotate images, and write print marks on the Memory Sticks recorded with DSC-D700.

Prepare the power source



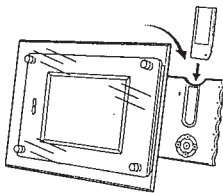
Note on the AC power adaptor
Use only the AC-power adaptor supplied. Do not use any other AC power adaptor.



Polarity of the plug

Prepare the Memory Stick

Open the control panel and insert a Memory Stick with recorded images with the ▼ mark facing front.

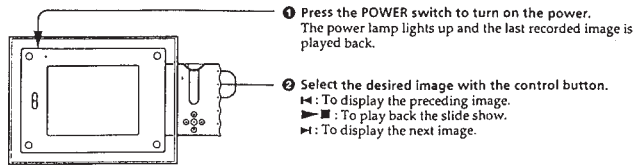


You can use the buttons on the edge of the control panel when the panel is closed.

Playing back images

Insert a Memory Stick with recorded images.

Playing back still images



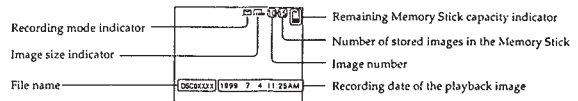
- Press the POWER switch to turn on the power. The power lamp lights up and the last recorded image is played back.
- Select the desired image with the control button.
 - ◀: To display the preceding image.
 - ▶: To play back the slide show.
 - ▶: To display the next image.

Playing back moving images

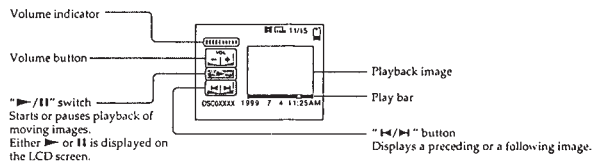
- Select the desired moving image with the control button.
- Select ▶ on the LCD screen with the control button, then press ●. The moving image and sound start.
 - || : To pause.
 - VOL. +: To turn the volume up.
 - VOL. -: To turn the volume down.

The indicators during playback

During playback still images (STILL)



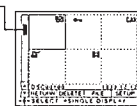
During playback moving images (MOVIE)



In INDEX screen

- Press ▲ of the control button. The menu bar appears on the LCD screen.
- Select "INDEX" with the control button, then press ●. Six images are displayed at a time.

Shows the position of the displayed image in the Memory Stick.



- ✉ : E-mail mode file
- ⊞ : Protected image file
- 📷 : Image with sound file
- 🖨 : Image with print mark
- 🎞 : Moving image file

To display the other six images

Select "▲/▼" in the lower left corner of the LCD screen with the control button, then press ▲ or ▼ of the control button.

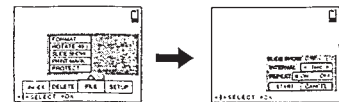
To return to the normal playback screen (Single screen)

Select the desired image or select "RETURN" with the control button, then press ●.

Setting the slide show

Playing back all still images one after another automatically.

- Press ▲ of the control button. The menu bar appears on the LCD screen.
- Select "FILE" with the control button, then press ●.
- Select "SLIDE SHOW" with the control button, then press ●.



- Enter each item with the control button, then press ●.
 - INTERVAL: 3 seconds, 10 seconds, one minute, 15 minutes or one day.
 - REPEAT ON: Plays back images in a continuous loop until "CANCEL" is selected.
 - OFF: After all images are played back, the slide show ends.
- Select "START" with the control button, then press ●. Slide show starts. To turn off the indicators on the LCD screen, press ▼ of the control button or DISPLAY.

To cancel the setting

Select "CANCEL" with the control button in the step 5, then press ●.

To operate the slide show

Pause: Select "||" with the control button, then press ●.
Start: Select "▶" with the control button, then press ●.
Search: Select "▶/▶" on the LCD screen with the control button, then press ◀ or ▶.

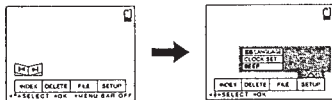
About the time of INTERVAL

The time of interval is approximately estimated.

Setting the date and time

When you use the digital photo frame first, set the date and time. If they are not set, the CLOCK SET screen in step 4 appears whenever you turn the unit on.

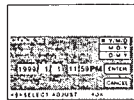
- Press the POWER switch to turn on the power.
- Press ▲ of the control button. The menu bar appears on the LCD screen.
- Select "SETUP" with the control button, then press ●.



- Select "CLOCK SET" with the control button, then press ●.

- Select the desired display of the date with the control button, then press ●.
 - Y/M/D (year/month/day)
 - M/D/Y (month/day/year)
 - D/M/Y (day/month/year)

- Select the date and time with the control button, then press ●. The item to be changed is indicated with ▲/▼. Select the number by pressing the control button, then press ● to execute. When "D/M/Y" is selected, set the time on a 24-hour cycle.

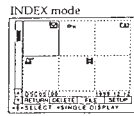
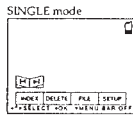


To cancel setting the date and time

Select "CANCEL" with the control button, then press ●.

Changing the menu setting

- ① Press ▲ of the control button.
The menu bar appears on the LCD screen.



- ② Select the desired item with the control button, then press ●.
The color of the item changes from blue to yellow.



- ③ Select the desired item with the control button, then press ●.
Return to the menu bar in the step 1 after setting ends.

To cancel the menu setting

Press ▼ of the control button repeatedly until the menu bar disappears.

Setting the mode of each item

- is set at the factory

SINGLE mode

Menu	Item	Mode Setting	Meaning
INDEX	—	—	Select this item to display six recorded images at a time.
DELETE	—	OK ● CANCEL	Delete displayed image. Cancel deleting image.
FILE	FORMAT	OK ● CANCEL	Format a Memory Stick. Cancel formatting a Memory Stick.
	ROTATE (90°)	—	Select this item to rotate images.
	SLIDE SHOW	INTERVAL REPEAT START ● CANCEL	Select this item to play back images in a continuous loop. Cancel setting the slide show.
	PRINT MARK	ON OFF	To write the print mark on the image. Remove the print mark.
	PROTECT	ON OFF	Protect displayed image. Release protection of the image.
SET UP	言語/LANGUAGE*	—	Select the language of the display on the LCD screen.
	CLOCK SET*	—	Set the date and time.
	BEEP*	ON OFF	Normally set to ON. Turn off the beep sound.

* These settings are held in memory even when the AC power adaptor is removed.

INDEX mode

Menu	Item	Mode Setting	Meaning
RETURN	—	—	Return to the SINGLE screen.
DELETE	—	ALL SELECT	Delete all images. Delete the selected images.
FILE	FORMAT	OK ● CANCEL	Format a Memory Stick. Cancel formatting a Memory Stick.
	PRINT MARK	ALL SELECT ● CANCEL	Choose OFF to remove all the print marks. Choose ON/OFF to write/remove the print mark on a selected image. Cancel writing the print mark.
	PROTECT	ALL SELECT ● CANCEL	Choose ON/OFF to protect/unprotect all images. Choose ON/OFF to protect/unprotect selected images. Cancel protecting the image.

*"SET UP" menu is the same as SINGLE mode.

Troubleshooting

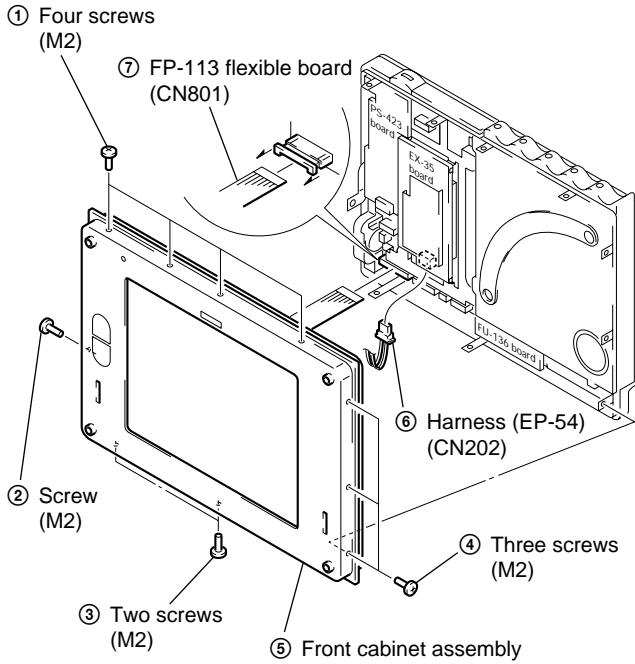
Should any problem persist after you have made those checks, consult your nearest Sony dealer.

Symptom	Cause and/or Solution
You cannot play back the images.	<ul style="list-style-type: none"> • No Memory Stick has been installed. • No image has been recorded on the Memory Stick. → Install a Memory Stick with recorded images.
The picture is noisy.	<ul style="list-style-type: none"> • The digital photo frame is placed near a TV or other equipment that uses strong magnets. → Place the digital photo frame away from the TV, etc.
The picture is too dark.	<ul style="list-style-type: none"> • You are shooting a subject with the light source behind the subject. → Adjust brightness of the LCD screen.
You cannot rotate or delete an image.	<ul style="list-style-type: none"> • The write protect tab on the Memory Stick is set to LOCK. → Set it to the recording position. • The image is protected. → Cancel the protection of the image.
The LCD screen turns off automatically.	<ul style="list-style-type: none"> • The sleep switch is set to 30 MIN. or 60 MIN.. → Turn off the sleep switch. • A single image has constantly played back for more than 12 hours. → Perform any operation to automatically turn the screen back on.

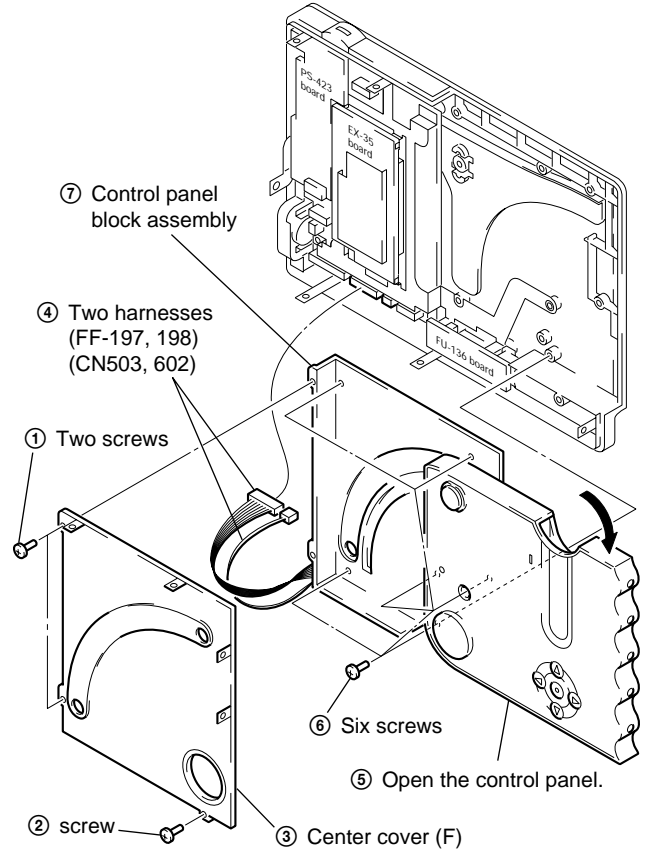
SECTION 2 DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

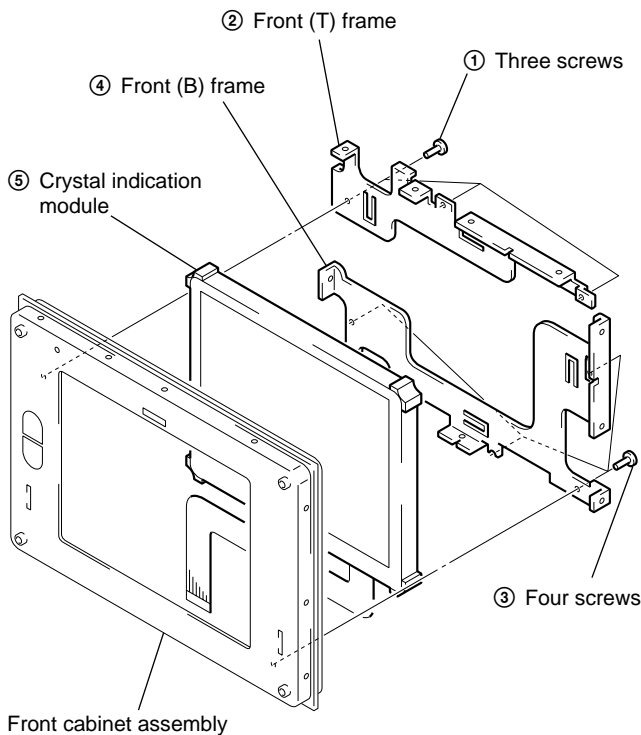
2-1. REMOVAL OF FRONT CABINET ASSEMBLY



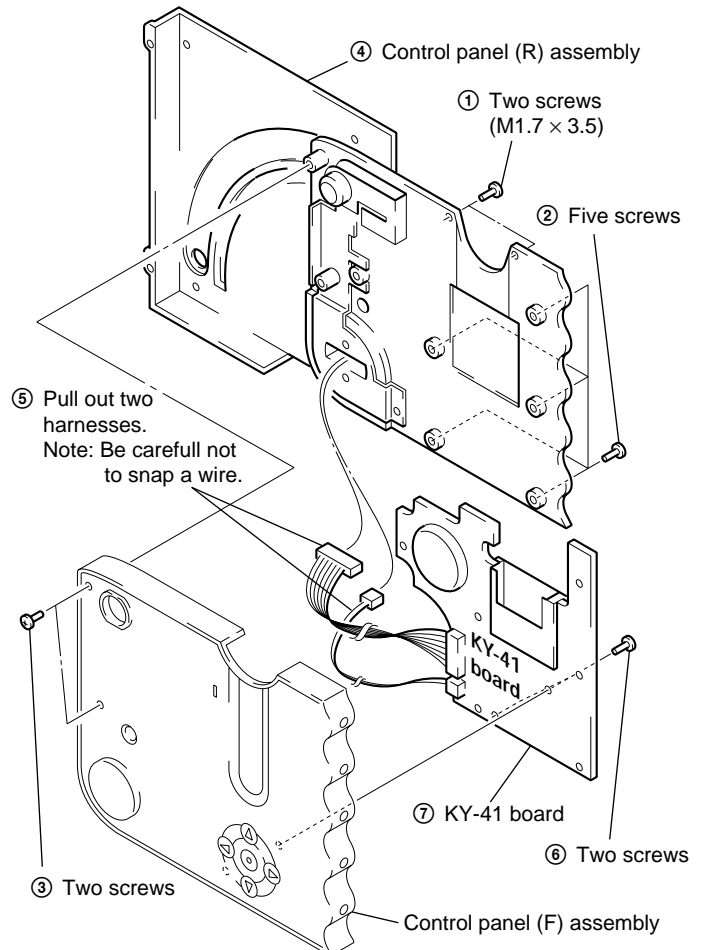
2-3. REMOVAL OF CONTROL PANEL BLOCK ASSEMBLY



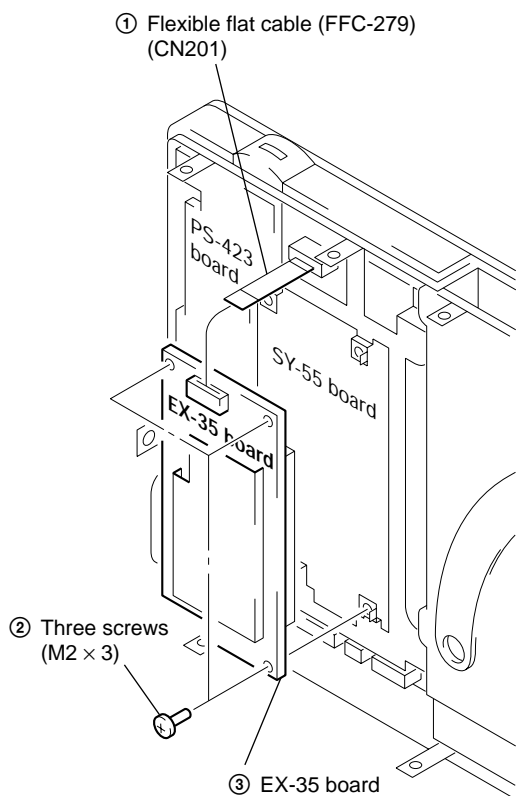
2-2. REMOVAL OF CRYSTAL INDICATION MODULE



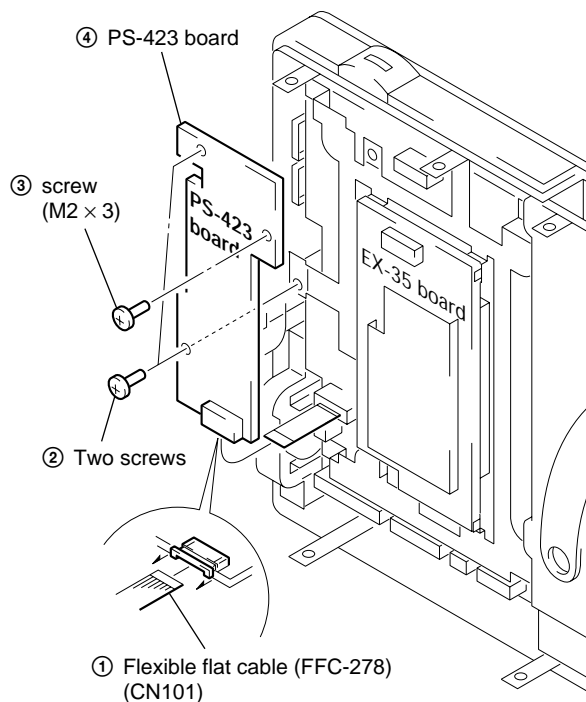
2-4. REMOVAL OF KY-41 BOARD



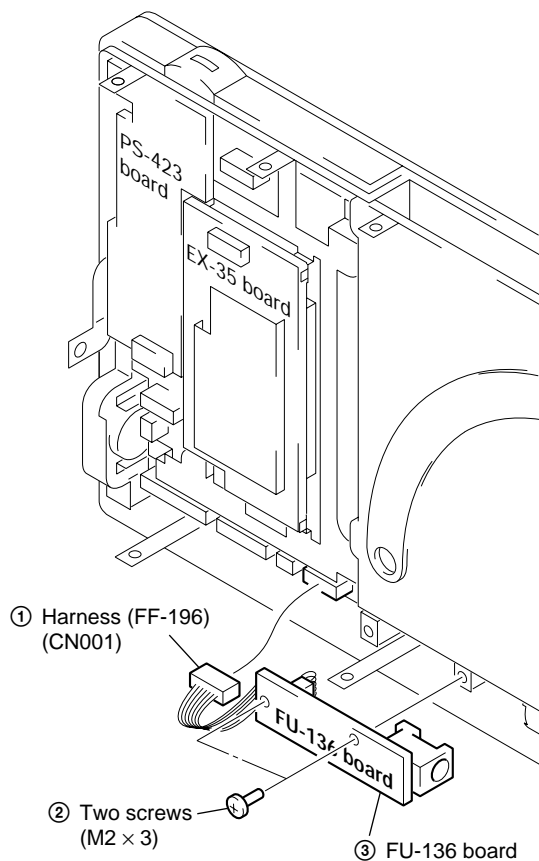
2-5. REMOVAL OF EX-35 BOARD



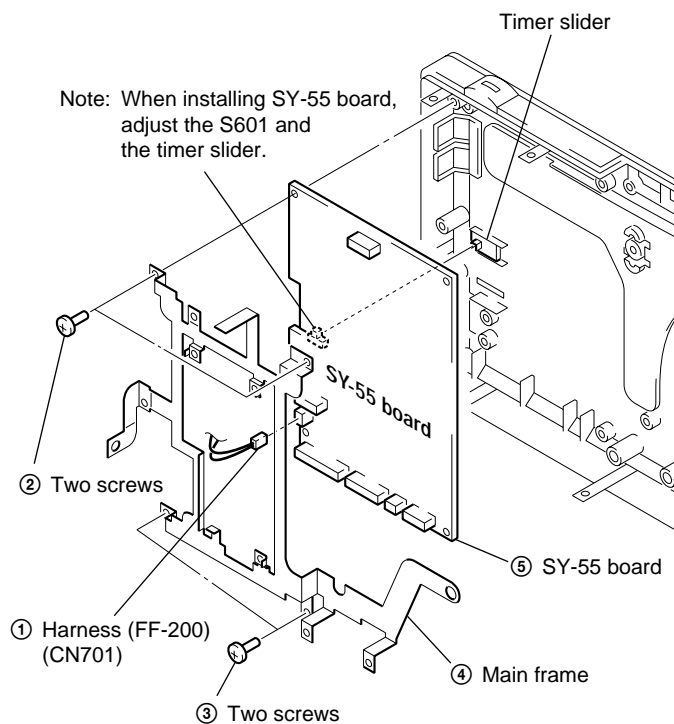
2-7. REMOVAL OF PS-423 BOARD



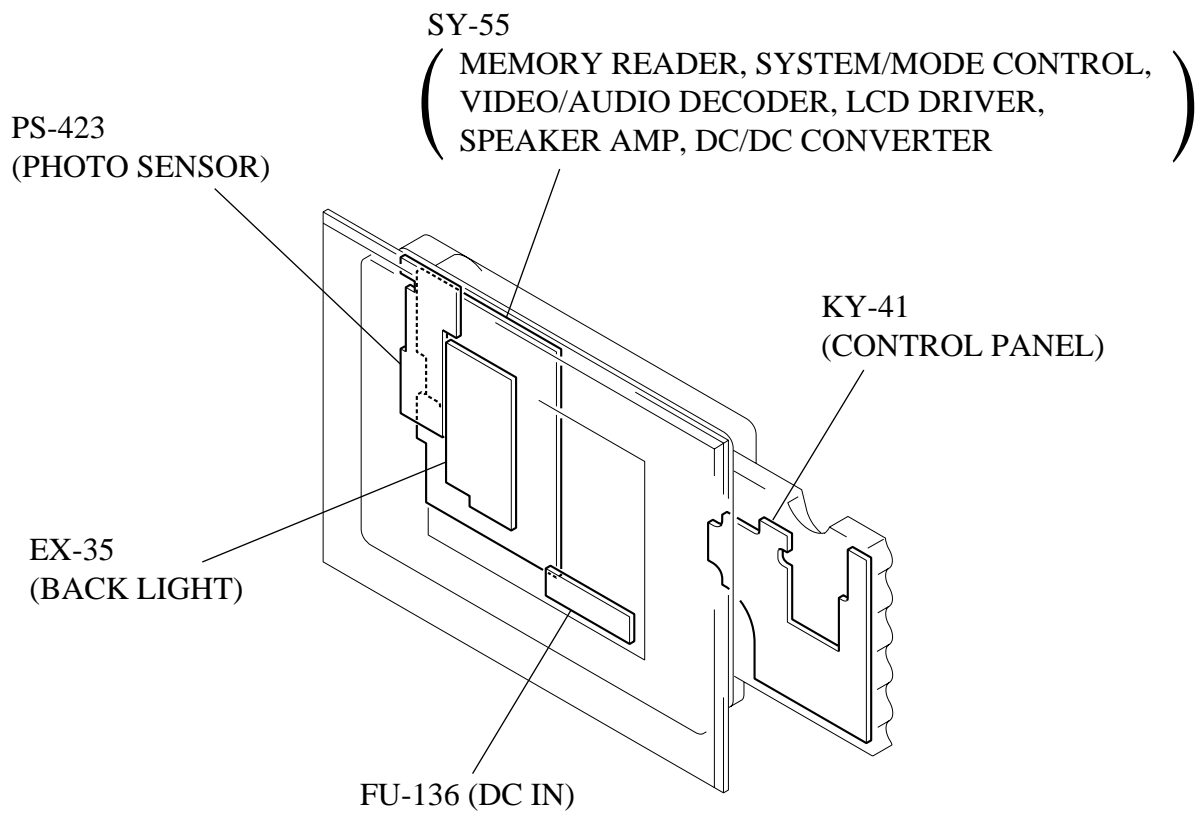
2-6. REMOVAL OF FU-136 BOARD



2-8. REMOVAL OF SY-55 BOARD

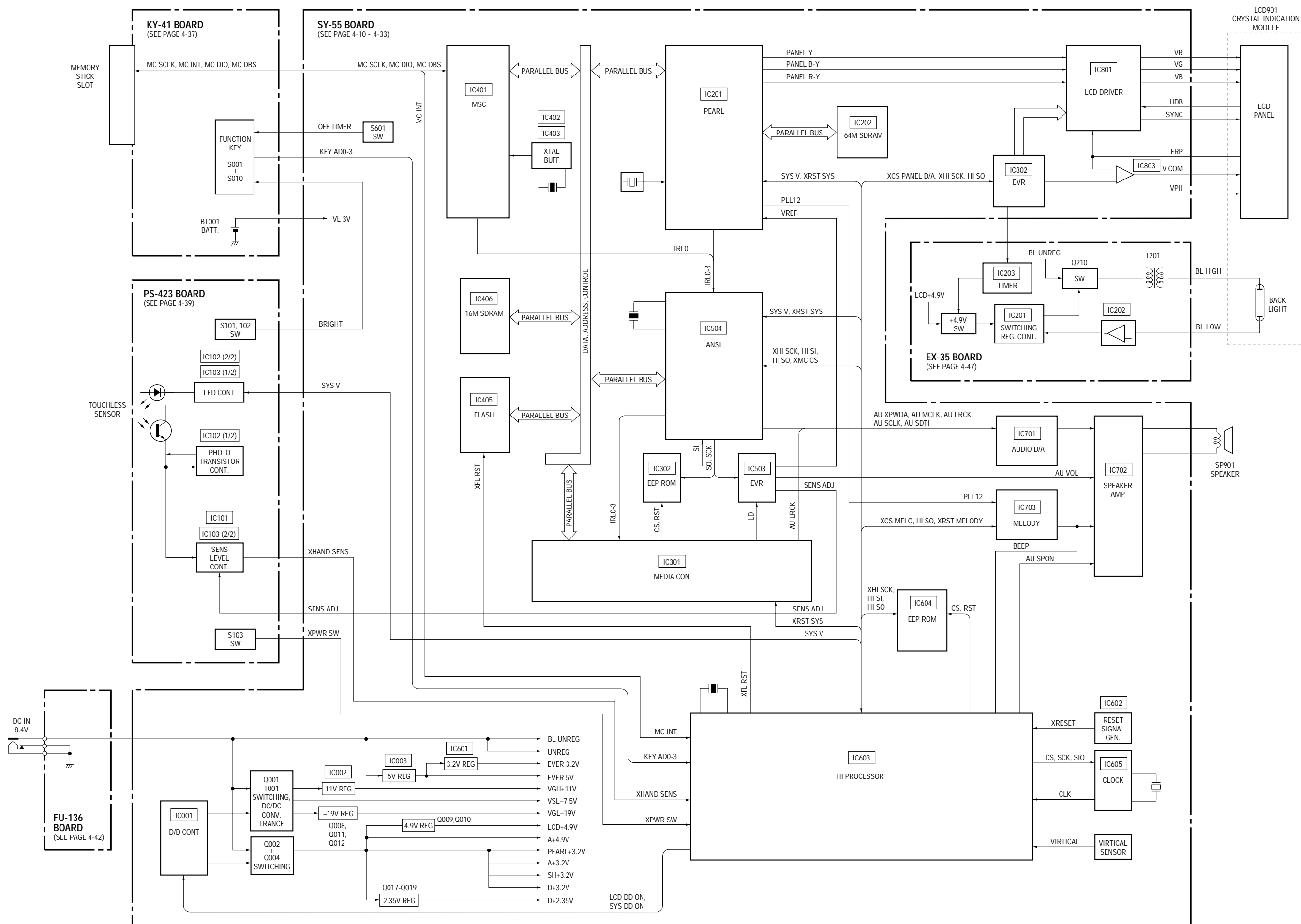


2-9. CIRCUIT BOARDS LOCATION

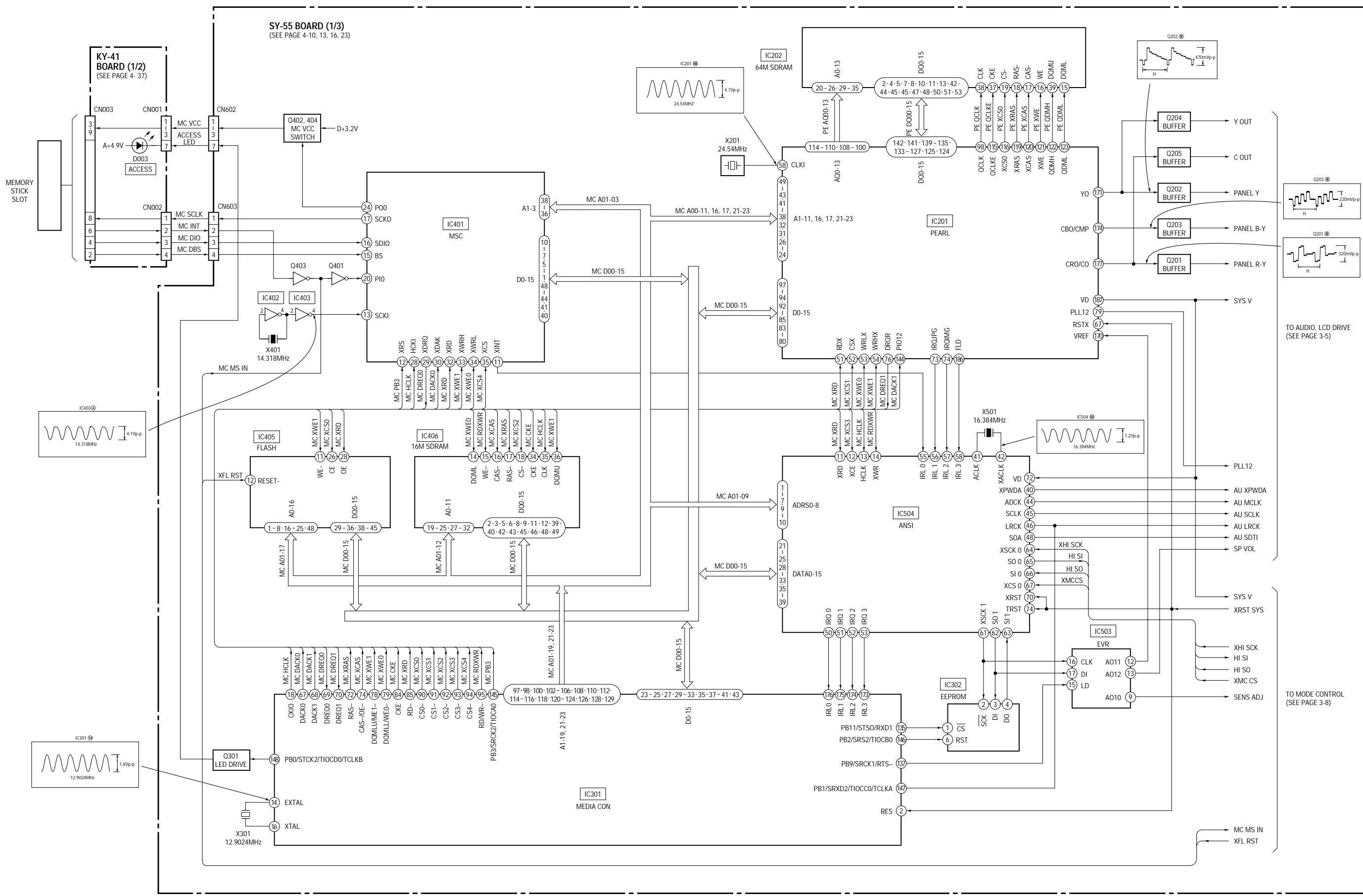


SECTION 3 BLOCK DIAGRAMS

3-1. OVERALL BLOCK DIAGRAM

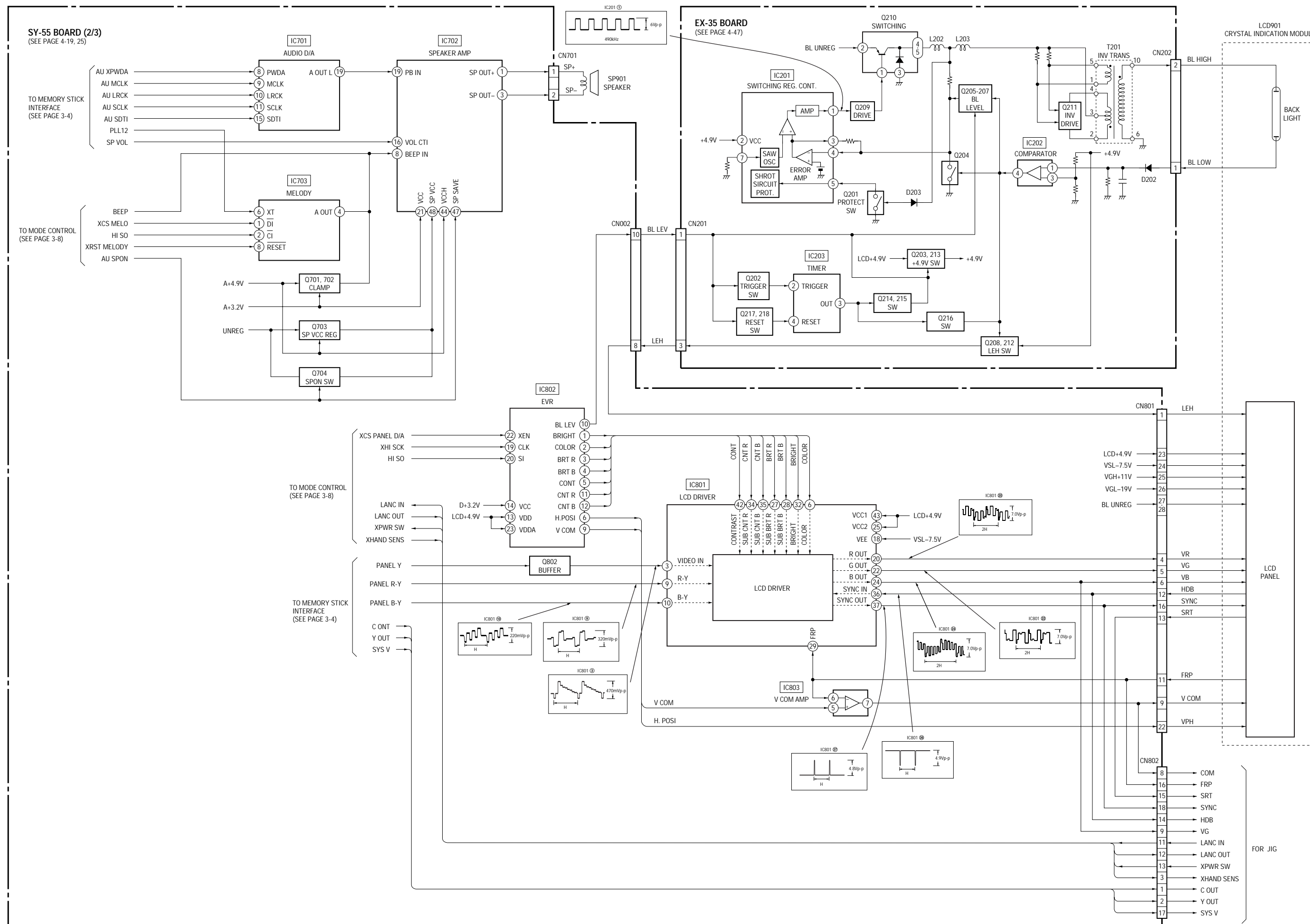


3-2. MEMORY STICK INTERFACE BLOCK DIAGRAM

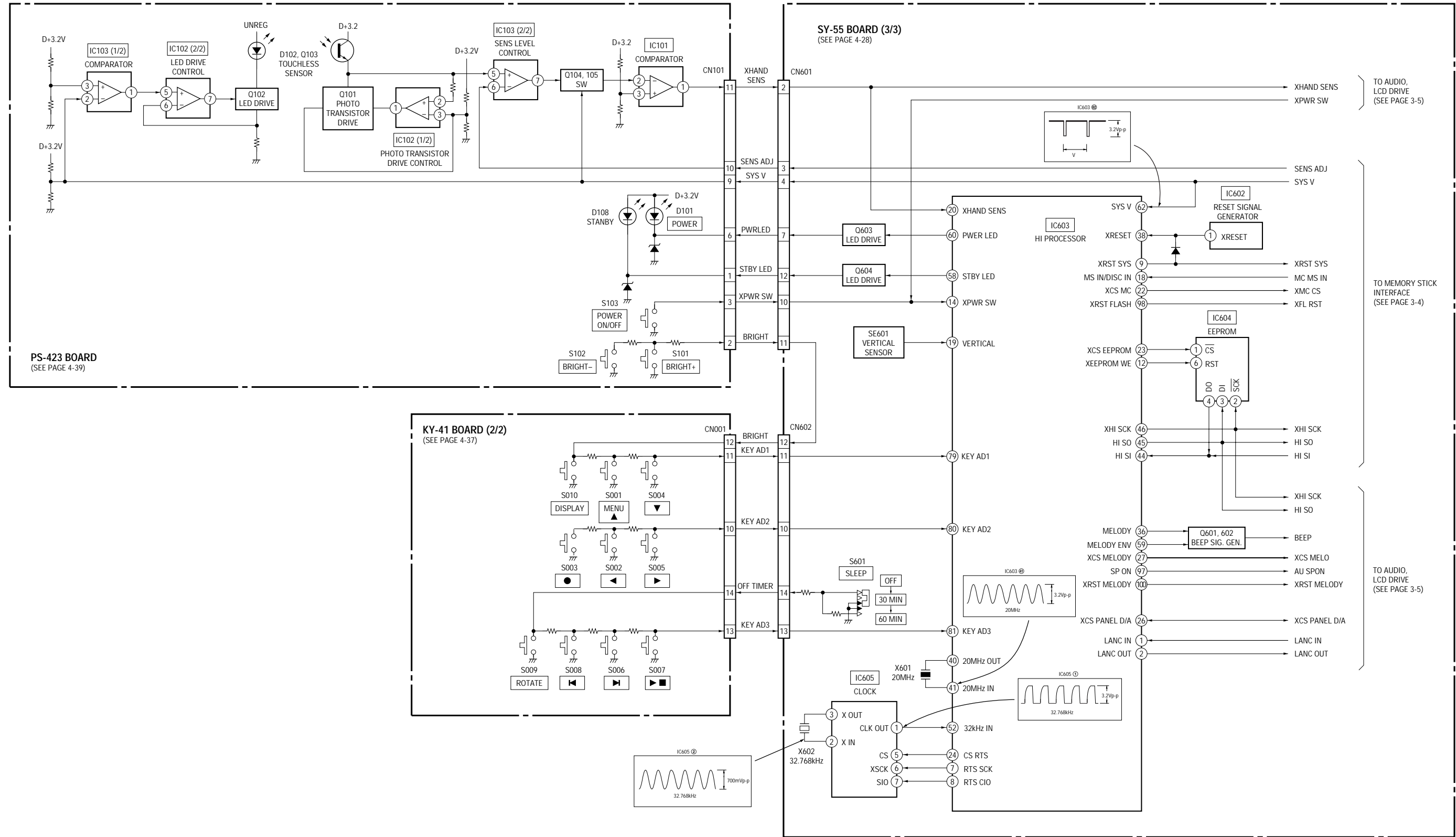


05

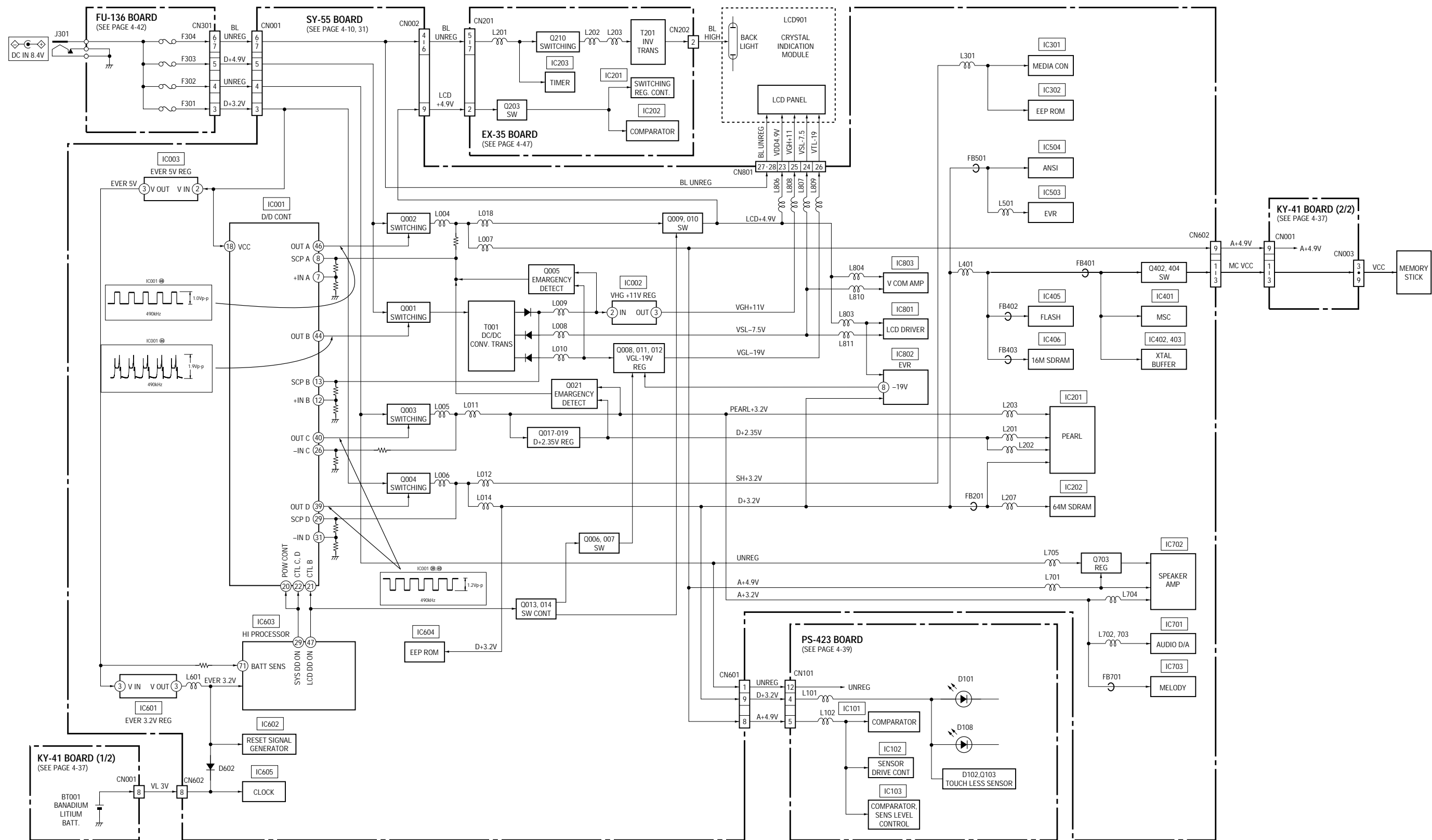
3-3. AUDIO, LCD DRIVE BLOCK DIAGRAM



3-4. MODE CONTROL BLOCK DIAGRAM



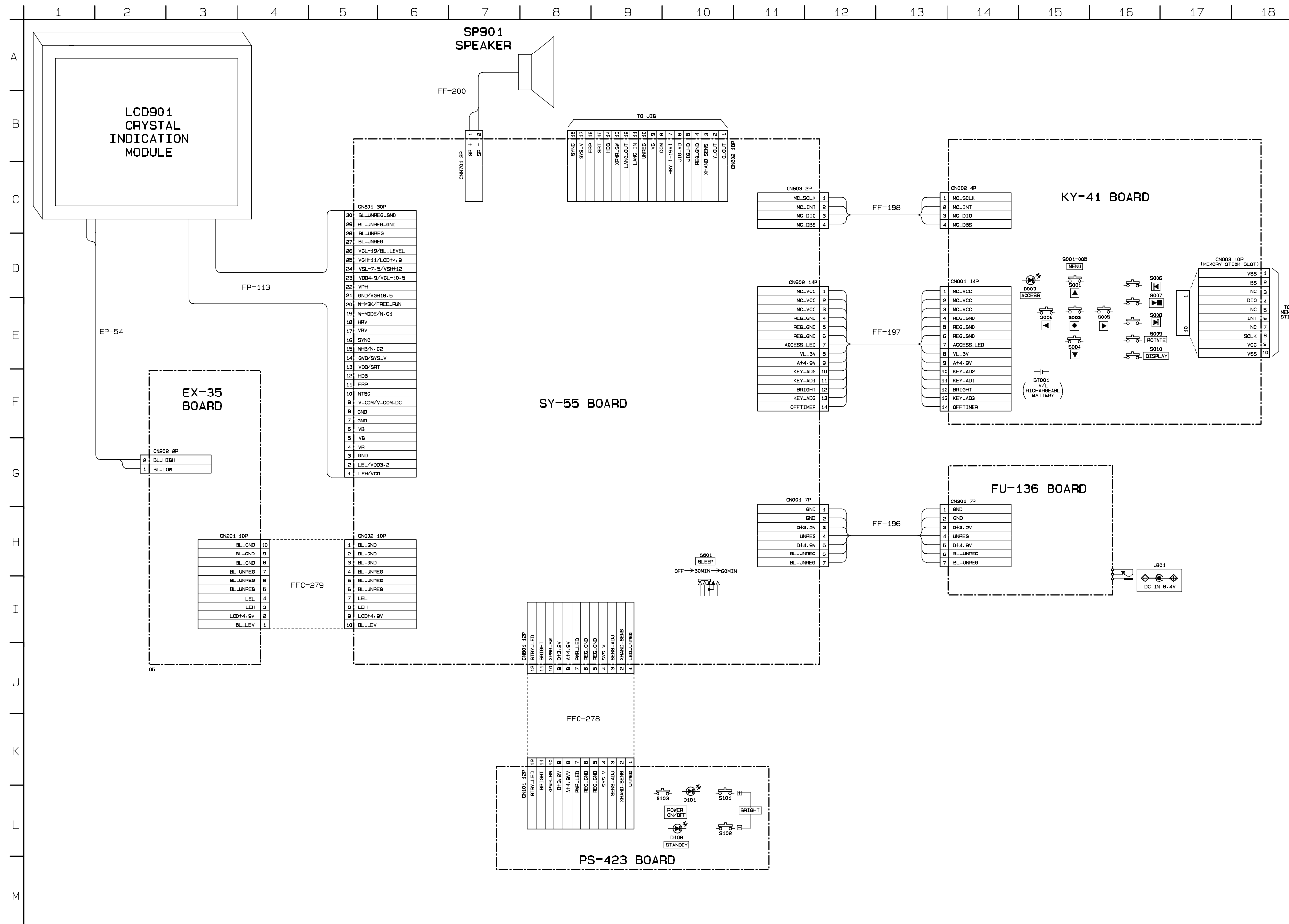
3-5. POWER BLOCK DIAGRAM



05

SECTION 4
PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

4-1. FRAME SCHEMATIC DIAGRAM

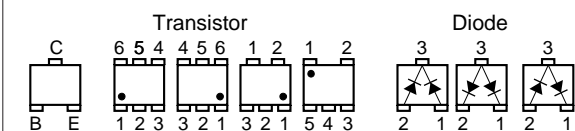


4-2. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

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

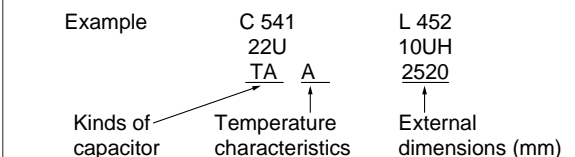
For printed wiring boards:

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



For schematic Diagram:

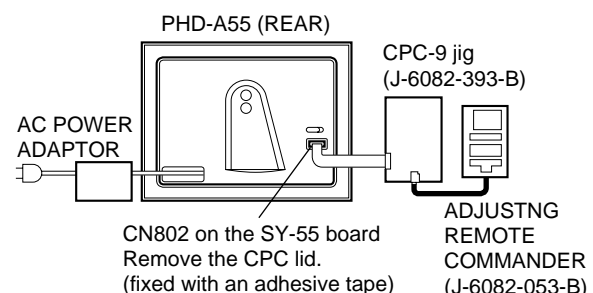
- All capacitors are in μF unless otherwise noted. pF : μpF 50V or less are not indicated except for electrolytics and tantalums.
- Chip resistors are $1/10\text{W}$ unless otherwise noted. $\text{k}\Omega$: 1000 Ω , $\text{M}\Omega$: 1000 $\text{k}\Omega$.
- Caution when replacing chip parts. New parts 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 EDIT PB/XREC \rightarrow PB/REC
- nonflammable resistor.
- fusible resistor.
- panel designation.
- B+ Line.*
- B- Line.*
- IN/OUT direction of B line (+, -).*
- adjustment for repair.*
- Circled numbers refer to waveforms.*
- Indicated by the color red.

Measuring conditions voltage and waveform:

- Voltages and waveforms are measured between the measurement points and ground when color bar signal is generated at test signal generate mode. They are reference values and reference waveforms.* (VOM of DC 10 M Ω input impedance is used)
- Voltage values change depending upon input impedance of VOM used.
- Connection of equipment



- How to generate inside test signal (color bar). (Refer to table 5-2-1. on page 5-4) Connect adjusting remote commander to PHD-A55. Select page: 5, address: F1, and set data: 04.

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

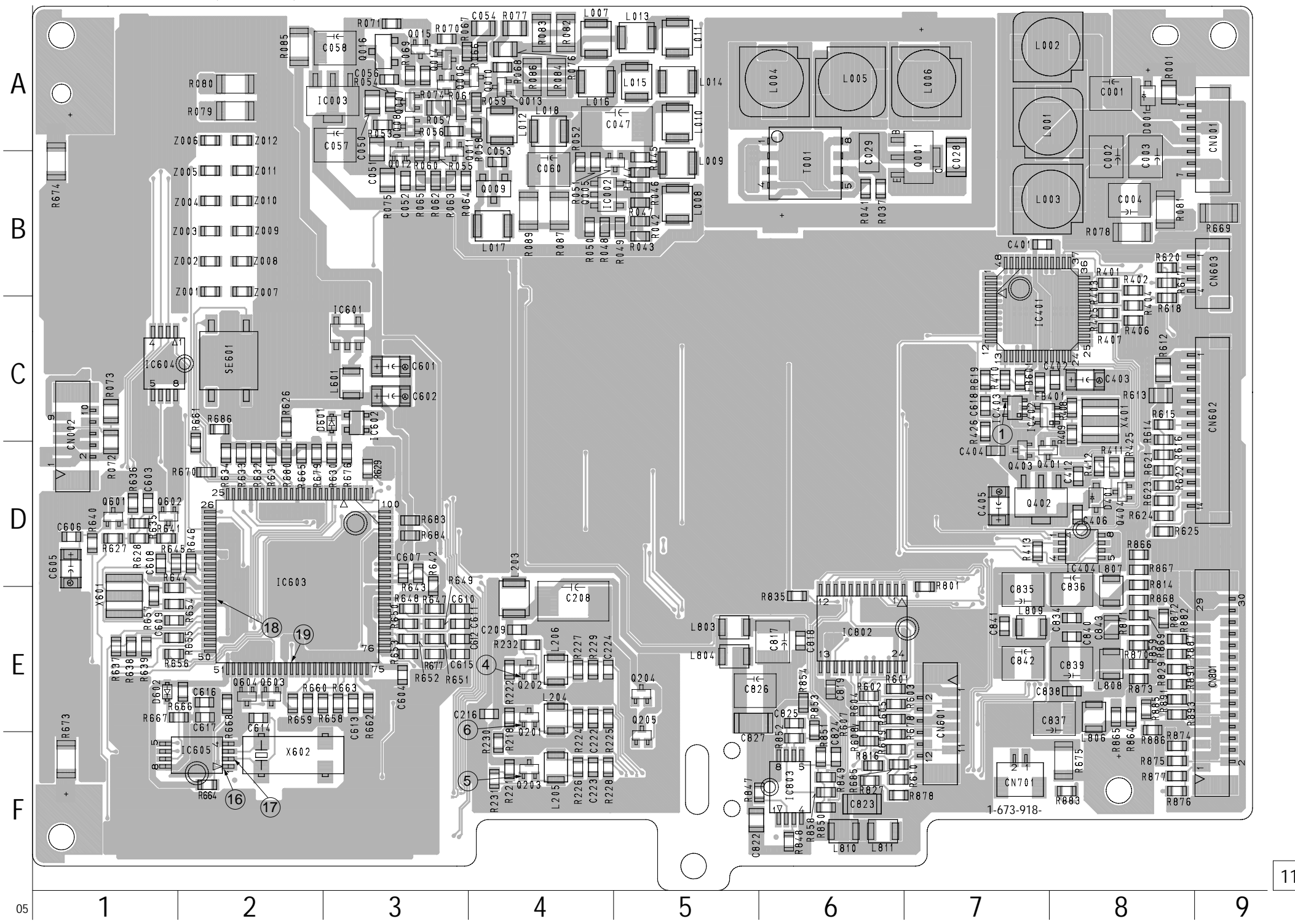
Note: Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

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

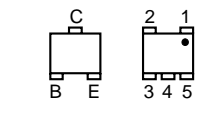
SY-55 BOARD (SIDE A)

C001	A-8	IC601	C-3	R061	A-3	R637	E-1
C002	B-8	IC602	C-3	R062	B-3	R638	E-1
C003	B-8	IC603	D-2	R063	B-3	R639	E-1
C004	B-8	IC604	C-1	R064	B-3	R640	D-1
C028	B-7	IC605	F-2	R065	B-3	R642	D-3
C029	B-6	IC802	E-6	R066	A-4	R643	D-3
C047	A-5	IC803	F-6	R067	A-3	R644	E-1
C050	A-3			R068	A-4	R645	D-1
C051	A-3	L001	A-7	R072	D-1	R646	D-2
C052	B-3	L002	A-7	R075	B-3	R647	E-3
C053	B-4	L003	B-7	R076	A-4	R648	E-3
C054	A-4	L004	A-6	R078	B-8	R649	E-3
C057	A-3	L005	A-6	R079	A-2	R650	E-3
C058	A-3	L006	A-7	R080	A-2	R651	E-3
C060	B-4	L007	A-4	R081	B-8	R652	E-3
C208	E-4	L008	B-5	R083	A-4	R653	E-3
C209	E-4	L009	B-5	R084	A-4	R654	E-1
C216	E-4	L010	A-5	R085	A-2	R655	E-1
C401	B-7	L011	A-5	R087	B-4	R657	E-1
C402	C-8	L012	A-4	R218	E-4	R658	E-2
C403	C-8	L013	A-5	R221	F-4	R659	E-2
C404	D-7	L014	A-5	R222	E-4	R660	E-2
C405	D-7	L017	B-4	R224	F-4	R661	D-2
C406	D-8	L018	A-4	R225	F-4	R662	E-3
C412	D-8	L203	E-4	R226	F-4	R663	E-3
C601	C-3	L801	C-3	R227	E-4	R664	F-2
C602	C-3	L803	E-5	R228	F-4	R665	D-2
C603	D-1	L804	E-5	R229	E-4	R666	E-2
C604	E-3	L806	E-8	R401	B-8	R667	E-2
C605	D-1	L807	E-8	R402	C-8	R668	E-2
C606	D-1	L808	E-8	R403	C-8	R669	B-9
C607	D-3	L809	E-7	R404	C-8	R670	D-2
C608	D-1	L810	F-6	R405	C-8	R673	F-1
C609	E-1	L811	F-6	R406	C-8	R674	B-1
C610	E-3			R407	C-8	R675	F-8
C613	E-3	Q001	B-7	R408	C-8	R676	D-3
C614	E-2	Q005	B-4	R409	C-8	R677	E-3
C615	E-3	Q006	A-3	R410	C-7	R678	F-6
C617	E-2	Q007	A-3	R411	D-8	R679	D-2
C817	E-6	Q008	A-3	R412	D-8	R680	D-2
C818	E-6	Q009	B-4	R413	D-7	R683	D-3
C819	E-6	Q010	A-4	R425	D-8	R684	D-3
C822	F-5	Q011	A-3	R426	C-7	R685	F-6
C823	F-6	Q012	B-3	R601	E-6	R686	C-2
C824	F-6	Q013	A-4	R602	E-6	R814	D-8
C826	E-5	Q014	A-3	R603	E-6	R835	E-6
C827	E-5	Q201	E-4	R604	E-6	R847	F-5
C834	E-8	Q202	E-4	R605	E-6	R848	F-6
C836	E-8	Q203	F-4	R607	E-6	R849	F-6
C837	E-8	Q204	E-5	R608	F-6	R850	F-6
C838	E-8	Q205	E-6	R609	F-6	R852	F-6
C839	E-8	Q401	D-7	R610	F-6	R853	E-6
C840	E-8	Q402	D-7	R612	C-8	R854	E-6
C841	E-7	Q403	D-7	R613	C-8	R859	E-8
C842	E-7	Q404	D-8	R614	C-8	R864	E-8
		Q601	D-1	R615	C-8	R866	D-8
		Q602	D-1	R616	D-8	R868	E-8
CN001	A-9	Q603	E-2	R617	B-8	R871	E-8
CN002	C-1	Q604	E-2	R618	C-8	R873	E-8
CN601	E-7			R619	C-7	R875	F-8
CN602	C-9			R620	B-8	R876	F-8
CN603	B-9	R001	A-8	R621	D-8	R878	F-6
CN701	F-7	R037	B-6	R622	D-8	R882	E-8
CN801	E-9	R042	B-5	R623	D-8	R885	E-8
		R044	B-5	R624	D-8	R887	E-8
		R045	B-5	R625	D-8	R890	E-8
D001	A-8	R047	B-5	R626	C-2	R891	E-8
D401	D-8	R049	B-5	R627	D-1	R893	E-8
D601	C-2	R050	B-4	R628	D-1		
D602	E-1	R051	B-4	R629	D-3	SE601	C-2
FB401	C-7	R052	B-4	R630	D-3		
FB601	C-7	R053	A-3	R631	D-2	T001	B-6
		R054	A-3	R632	D-2		
IC002	B-4	R055	B-3	R633	D-2	X401	C-8
IC003	A-3	R056	A-3	R634	D-2	X601	E-1
IC401	C-7	R057	A-3	R635	D-1	X602	F-2
IC402	C-7	R058	A-4	R636	D-1		
IC403	C-7	R059	A-4				

SY-55 BOARD (SIDE A)

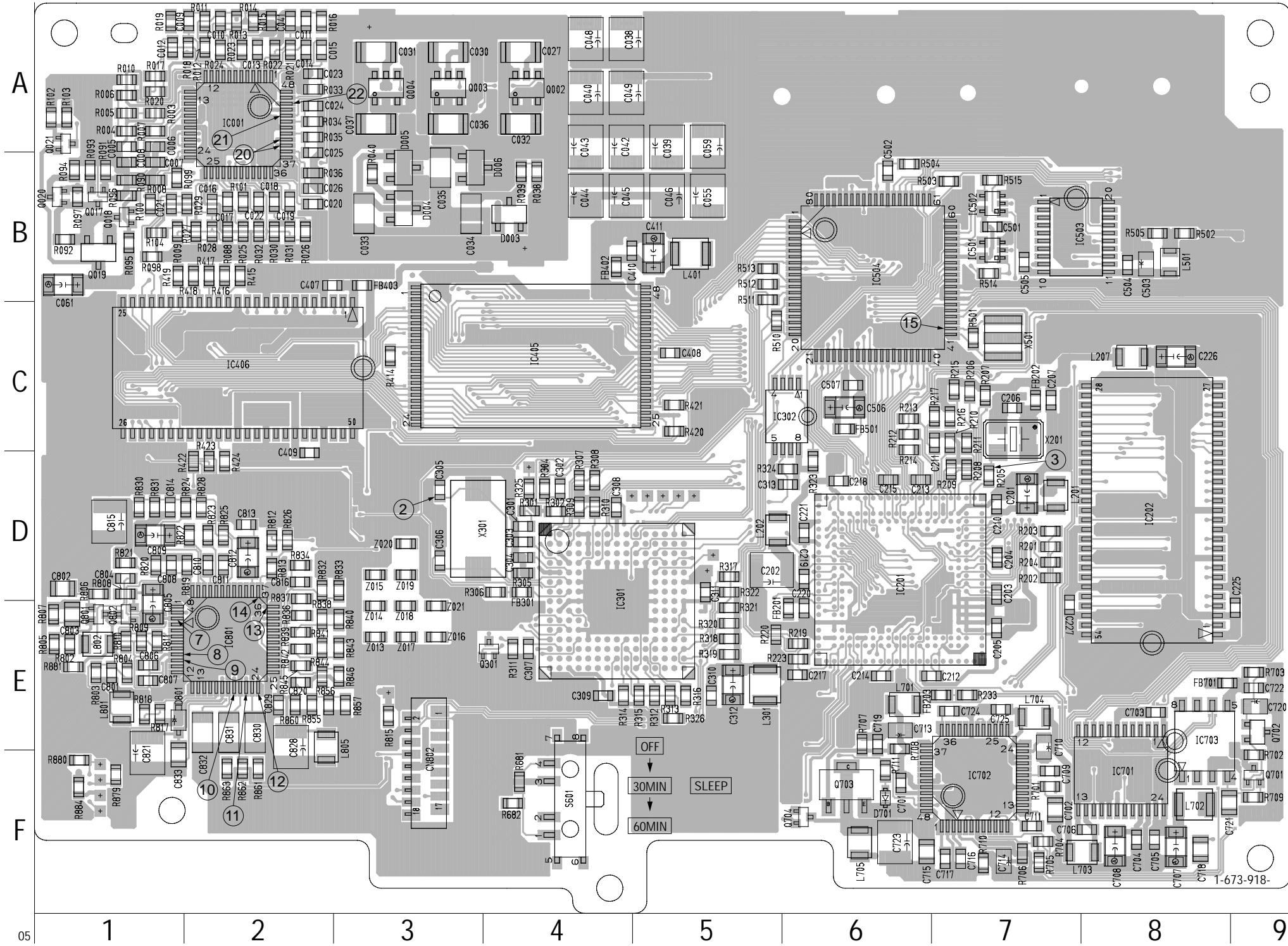


- For Printed Wiring Board.
- SY-55 board is 6-layer print board. However, the patterns of layers 2 to 5 have not been included in the diagram.
- Chip transistor



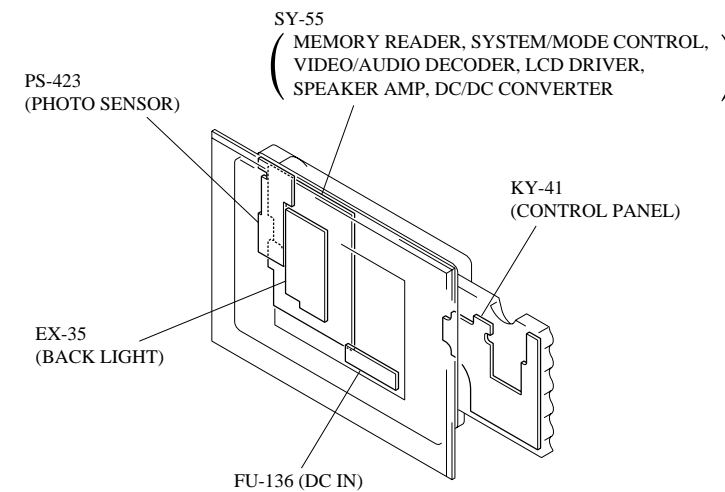
There are few cases that the part isn't mounted in this model is printed on this diagram.

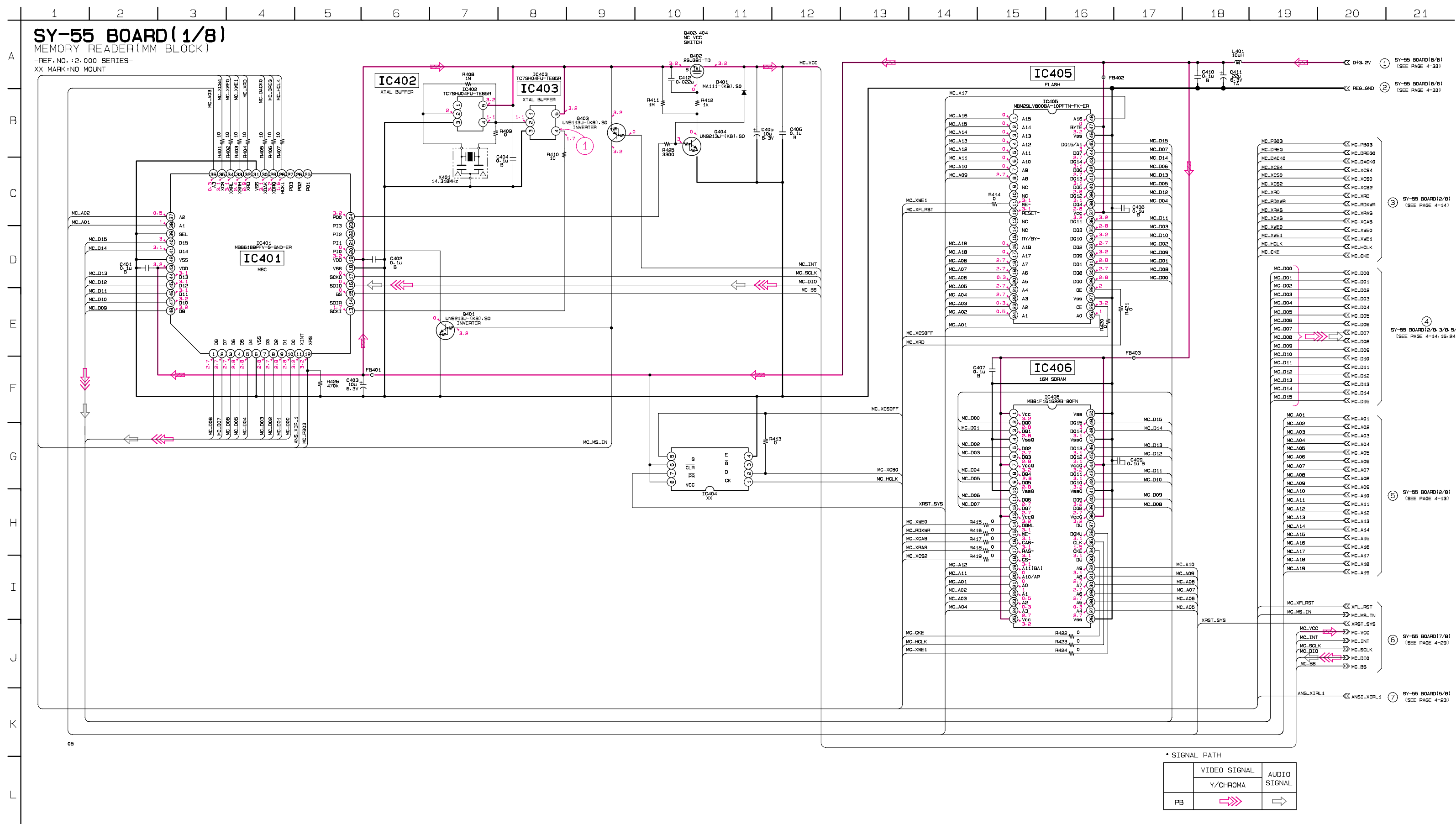
SY-55 BOARD (SIDE B)



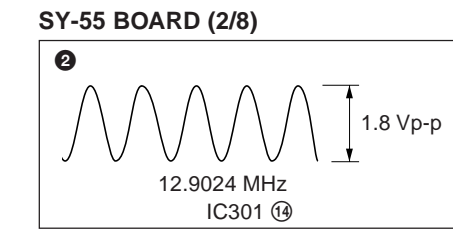
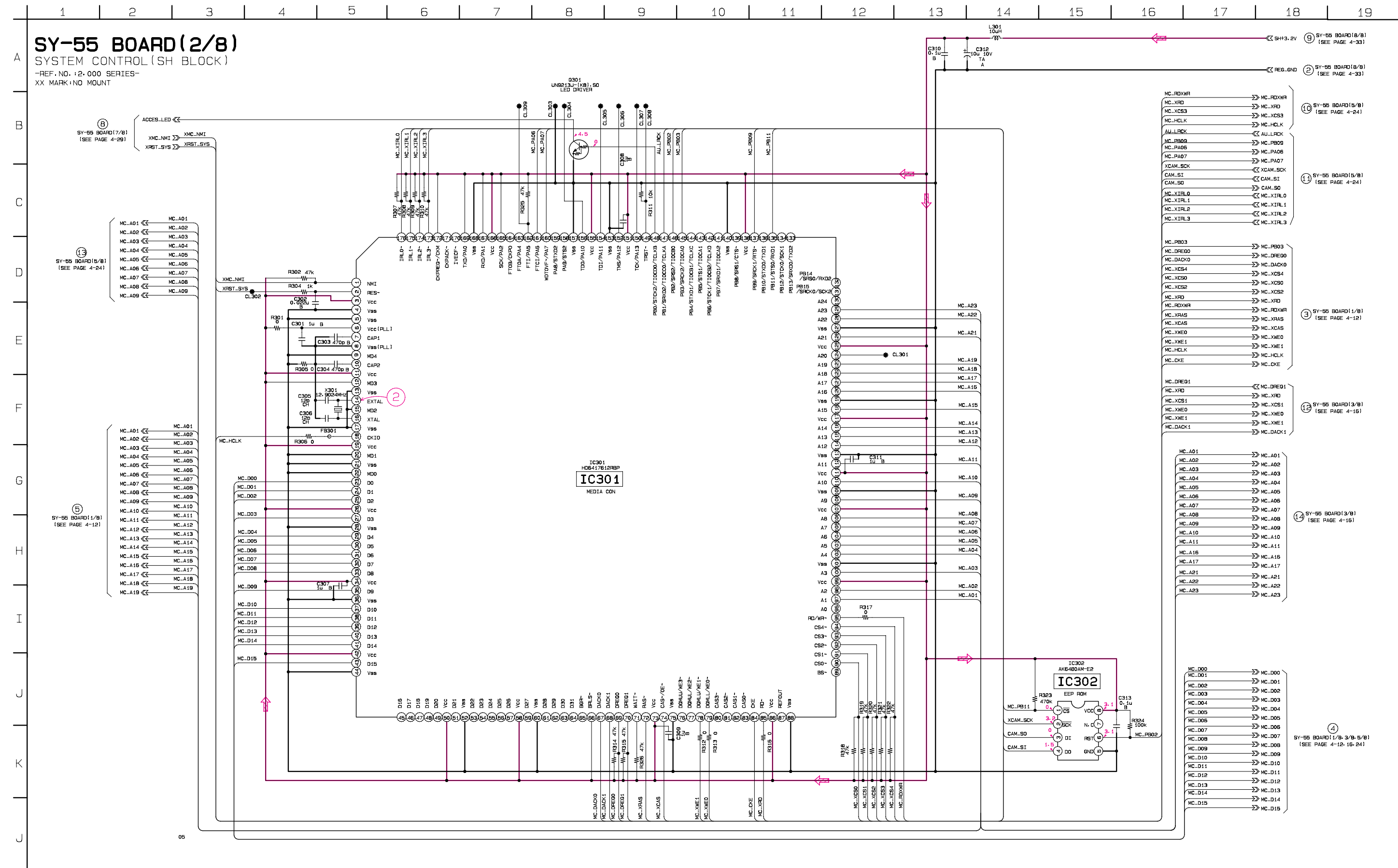
SY-55 BOARD (SIDE B)

C005	A-1	C502	B-6	IC801	E-2	R206	C-7	R825	D-2
C006	A-1	C503	B-8			R208	D-7	R826	D-2
C007	B-1	C504	B-8	L201	D-7	R210	C-7	R828	D-2
C008	B-1	C505	B-7	L202	D-5	R211	C-7	R830	D-1
C009	A-1	C506	C-6	L207	C-8	R212	C-6	R831	D-1
C011	A-2	C507	C-6	L301	E-5	R213	C-6	R832	D-2
C012	A-1	C701	F-6	L401	B-5	R214	D-6	R833	D-3
C013	A-2	C702	F-7	L501	B-8	R217	C-7	R834	D-2
C014	A-2	C703	E-8	L701	E-6	R219	E-6	R836	E-2
C015	A-2	C704	F-8	L702	F-8	R223	E-6	R837	D-2
C017	B-2	C705	F-8	L703	F-8	R233	E-7	R839	E-2
C018	B-2	C706	F-8	L704	E-7	R301	D-4	R840	E-3
C019	B-2	C707	F-7	L705	F-6	R302	D-4	R841	E-2
C020	B-2	C708	F-8			R305	D-4	R842	E-2
C023	A-2	C709	F-7	Q002	A-4	R306	D-4	R843	E-3
C024	A-2	C710	F-7	Q003	A-3	R307	D-4	R844	E-2
C025	A-2	C711	F-7	Q004	A-3	R308	D-4	R845	E-2
C026	B-2	C713	E-6	Q017	B-1	R309	D-4	R846	E-3
C027	A-4	C714	F-7	Q018	B-1	R310	D-4	R855	E-2
C030	A-3	C715	F-6	Q019	B-1	R311	E-4	R856	E-2
C031	A-3	C716	F-7	Q021	A-1	R312	E-5	R860	E-2
C032	A-4	C717	F-7	Q021	E-4	R313	E-5	R861	F-2
C033	B-3	C718	F-8	Q701	F-9	R314	E-4	R862	F-2
C034	B-3	C720	E-9	Q702	E-9	R315	E-5	R863	F-2
C035	B-3	C721	F-8	Q703	F-6	R316	E-5	R879	F-1
C036	A-3	C722	E-9	Q704	E-6	R317	D-5	R880	F-1
C037	A-3	C723	F-6	Q802	E-1	R318	E-5	R881	E-1
C038	A-4	C724	E-7			R319	E-5	R884	F-1
C039	A-5	C725	E-7	R004	A-1	R320	E-5		
C040	A-4	C805	E-1	R005	A-1	R321	E-5	S601	F-4
C042	A-4	C806	E-1	R006	A-1	R322	D-5	X201	C-7
C045	B-4	C807	E-1	R007	A-1	R323	D-6	X301	D-3
C046	B-5	C808	D-1	R008	B-1	R324	D-6	X501	C-7
C048	A-4	C809	D-1	R010	A-1	R325	D-4		
C055	B-5	C810	D-2	R011	A-2	R326	E-5		
C059	A-5	C811	D-2	R012	A-2	R414	C-3		
C061	B-1	C812	D-2	R013	A-2	R415	B-2		
C201	D-7	C814	D-1	R014	A-2	R416	B-2		
C202	D-5	C815	D-1	R015	A-2	R417	B-2		
C203	D-7	C816	D-2	R016	A-2	R418	B-2		
C204	D-7	C820	E-2	R017	A-1	R419	B-2		
C205	E-7	C821	F-1	R018	A-2	R420	C-5		
C206	C-7	C828	E-2	R019	A-1	R421	C-5		
C207	C-7	C829	E-2	R020	A-1	R422	D-2		
C210	D-7	C830	E-2	R021	A-2	R423	D-2		
C211	C-7	C831	E-2	R022	A-2	R424	D-2		
C212	E-7	C832	E-2	R023	A-2	R501	C-7		
C213	D-6	C833	F-1	R024	A-2	R503	B-7		
C214	E-6			R025	B-2	R504	B-6		
C215	D-6	CN802	F-3	R026	B-2	R505	B-8		
C217	E-6			R027	B-2	R510	C-5		
C218	D-6			R028	B-2	R511	C-5		
C219	D-6	D003	B-4	R029	B-2	R512	B-5		
C220	E-6	D005	A-3	R030	B-2	R513	B-5		
C221	D-6	D006	B-4	R031	B-2	R514	B-7		
C225	E-9	D801	E-1	R032	B-2	R515	B-7		
C226	C-8	FB201	E-6	R033	A-2	R681	F-4		
C227	E-7	FB202	C-7	R034	A-2	R682	F-4		
C301	D-4	FB203	E-7	R035	A-2	R701	F-7		
C302	D-4	FB301	D-4	R036	B-2	R702	F-9		
C303	D-4	FB402	B-4	R039	B-4	R703	E-9		
C304	D-4	FB403	B-3	R040	B-3	R704	F-7		
C305	D-3	FB501	C-6	R090	B-1	R705	F-7		
C306	D-3	FB701	E-8	R091	B-1	R708	F-6		
C307	E-4			R092	B-1	R709	F-9		
C308	D-4	IC001	A-2	R093	B-1	R808	D-1		
C309	E-4	IC201	D-6	R095	B-1	R809	E-1		
C310	E-5	IC202	D-8	R097	B-1	R810	E-1		
C311	D-5	IC301	D-4	R099	B-1	R811	E-1		
C312	E-5	IC302	C-6	R101	B-2	R813	D-2		
C313	D-6	IC405	C-4	R102	A-1	R815	E-3		
C407	B-2	IC406	C-2	R103	A-1	R818	E-1		
C408	C-5	IC503	B-7	R201	D-7	R819	D-2		
C409	D-2	IC504	B-6	R202	D-7	R821	D-1		
C410	B-4	IC701	F-8	R203	D-7	R822	D-2		
C411	B-5	IC702	F-7	R204	D-7	R823	D-2		
C501	B-7	IC703	E-8	R205	D-7				



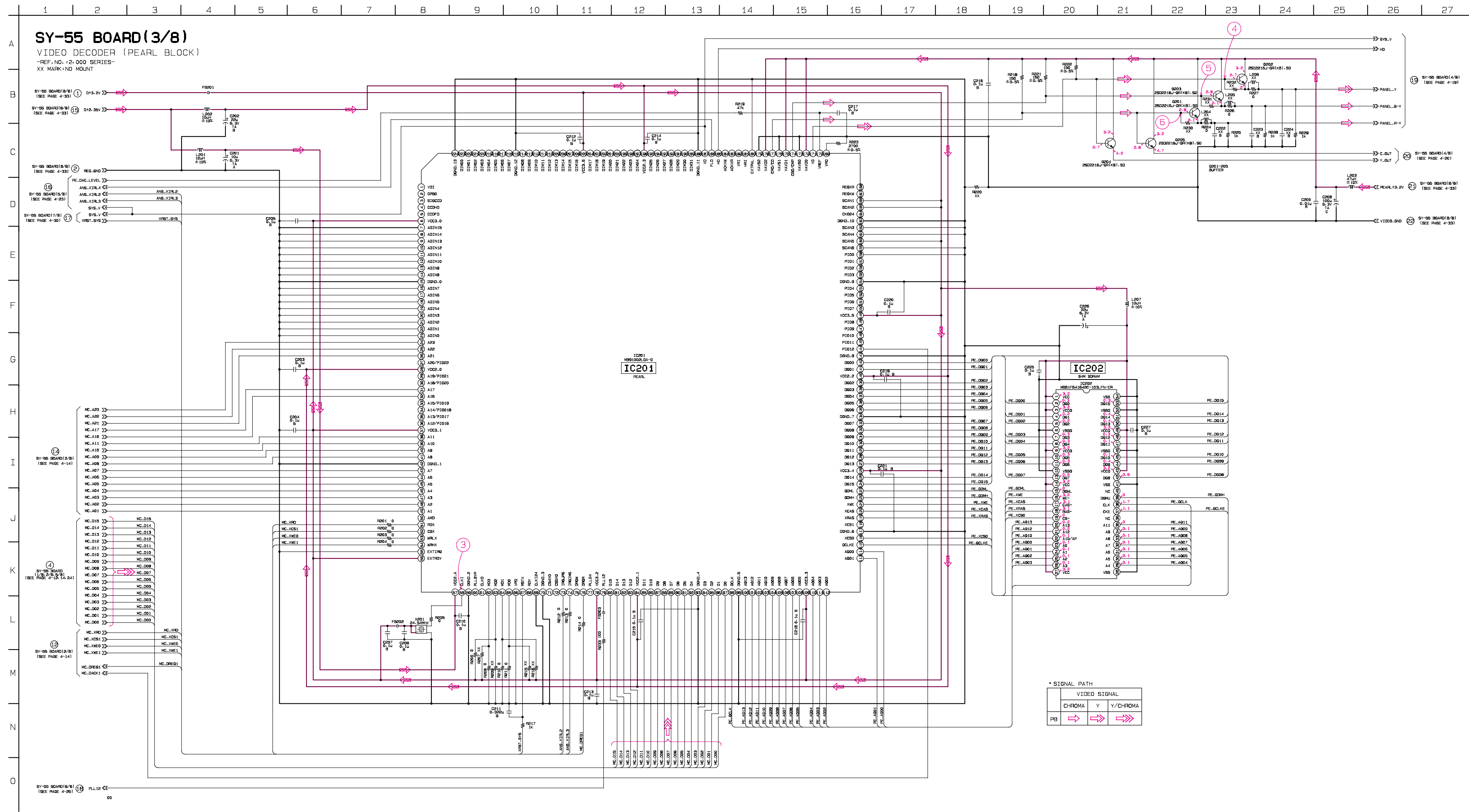


SY-55 (SYSTEM CONTROL) SCHEMATIC DIAGRAM • See page 4-5 for SY-55 printed wiring board.

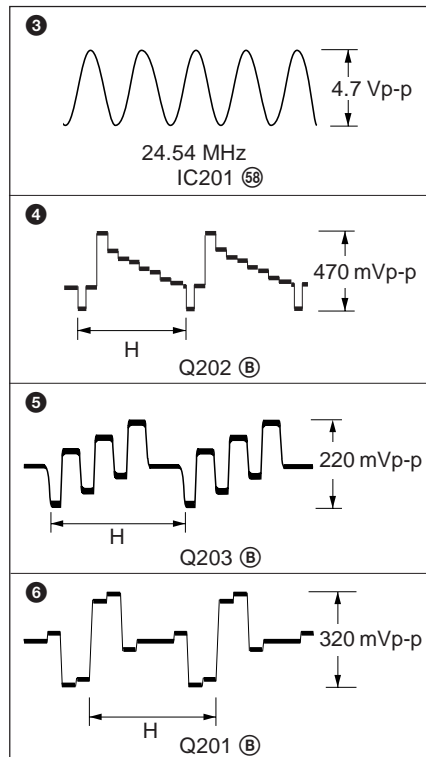


- ③ SY-55 BOARD(7/8) (SEE PAGE 4-29)
- ④ SY-55 BOARD(5/8) (SEE PAGE 4-24)
- ⑤ SY-55 BOARD(1/8) (SEE PAGE 4-12)

- ⑥ SH+3.2V (SEE PAGE 4-33)
- ⑦ REG. 5V (SEE PAGE 4-33)
- ⑧ SY-55 BOARD(8/8) (SEE PAGE 4-33)
- ⑨ SY-55 BOARD(15/8) (SEE PAGE 4-24)
- ⑩ SY-55 BOARD(15/8) (SEE PAGE 4-24)
- ⑪ SY-55 BOARD(15/8) (SEE PAGE 4-24)
- ⑫ SY-55 BOARD(1/8) (SEE PAGE 4-12)
- ⑬ SY-55 BOARD(13/8) (SEE PAGE 4-16)
- ⑭ SY-55 BOARD(13/8) (SEE PAGE 4-16)
- ⑮ SY-55 BOARD(13/8) (SEE PAGE 4-16)
- ⑯ SY-55 BOARD(11/8, 3/8, 5/8) (SEE PAGE 4-12, 15-24)



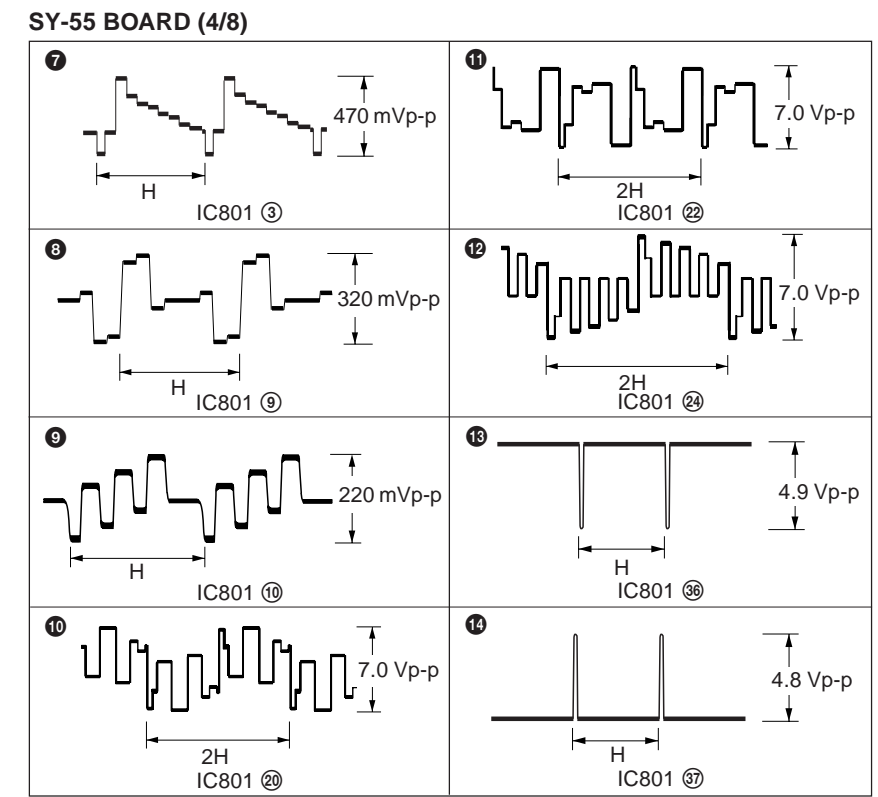
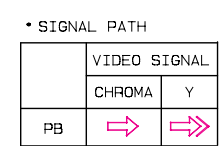
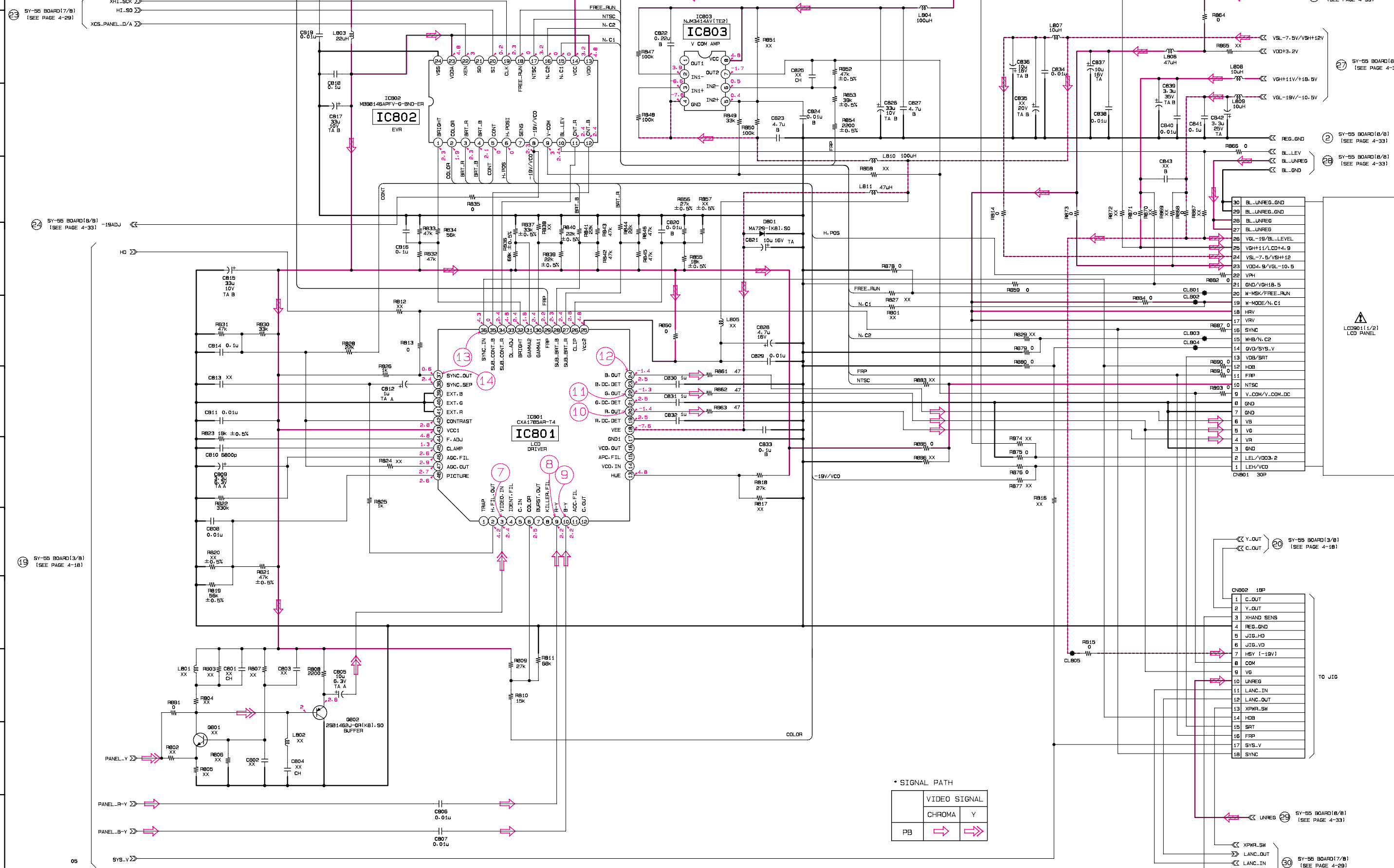
SY-55 BOARD (3/8)



SY-55 (LCD DRIVER) SCHEMATIC DIAGRAM • See page 4-5 for SY-55 printed wiring board.

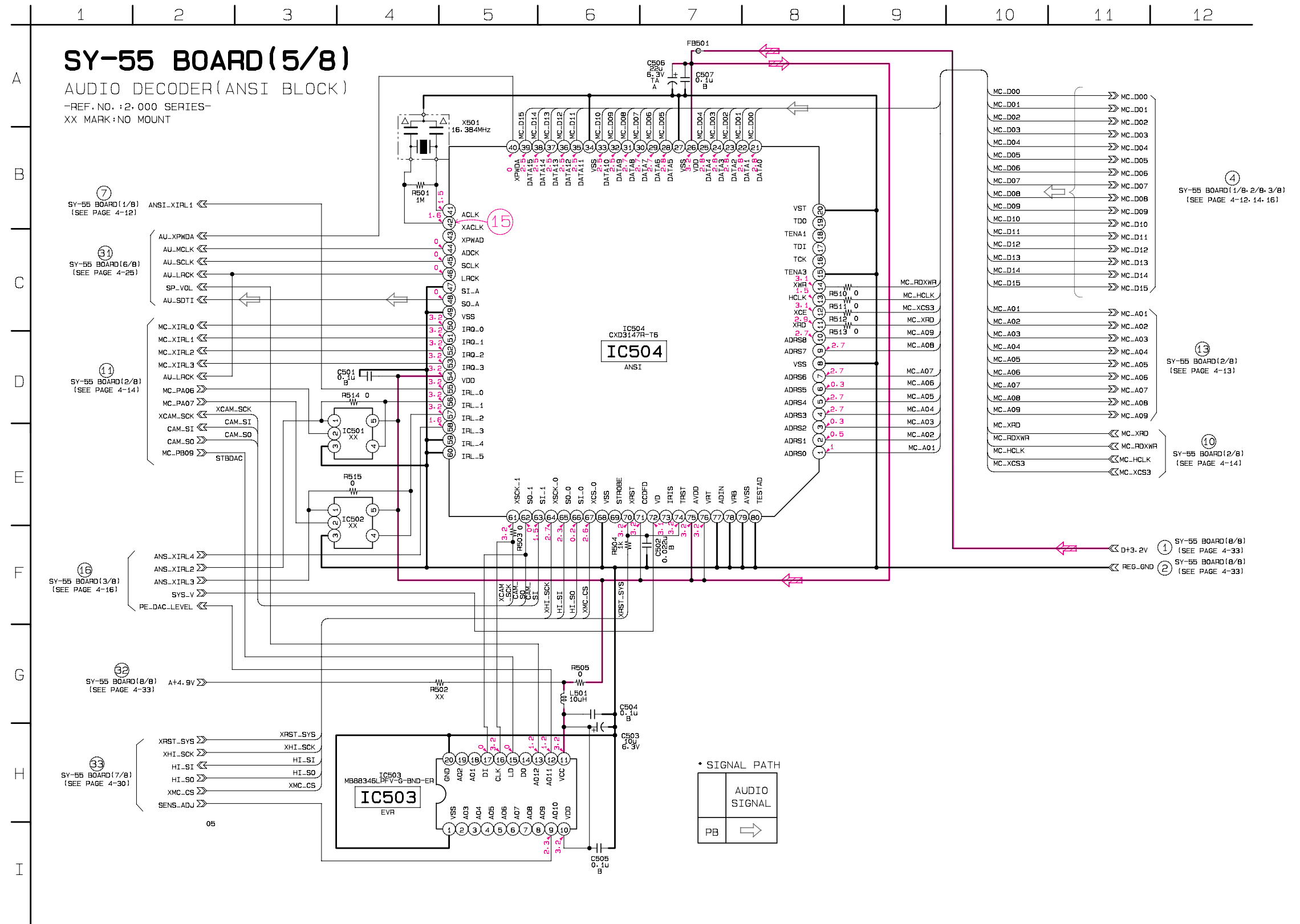
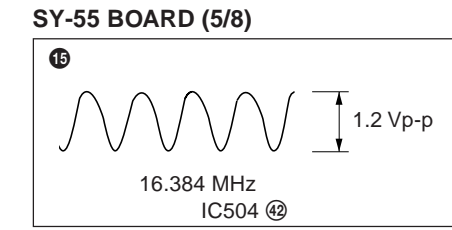
SY-55 BOARD(4/8)
LCD DRIVER(RGB BLOCK)

-REF. NO. +2-000 SERIES-
XX MARK: NO MOUNT

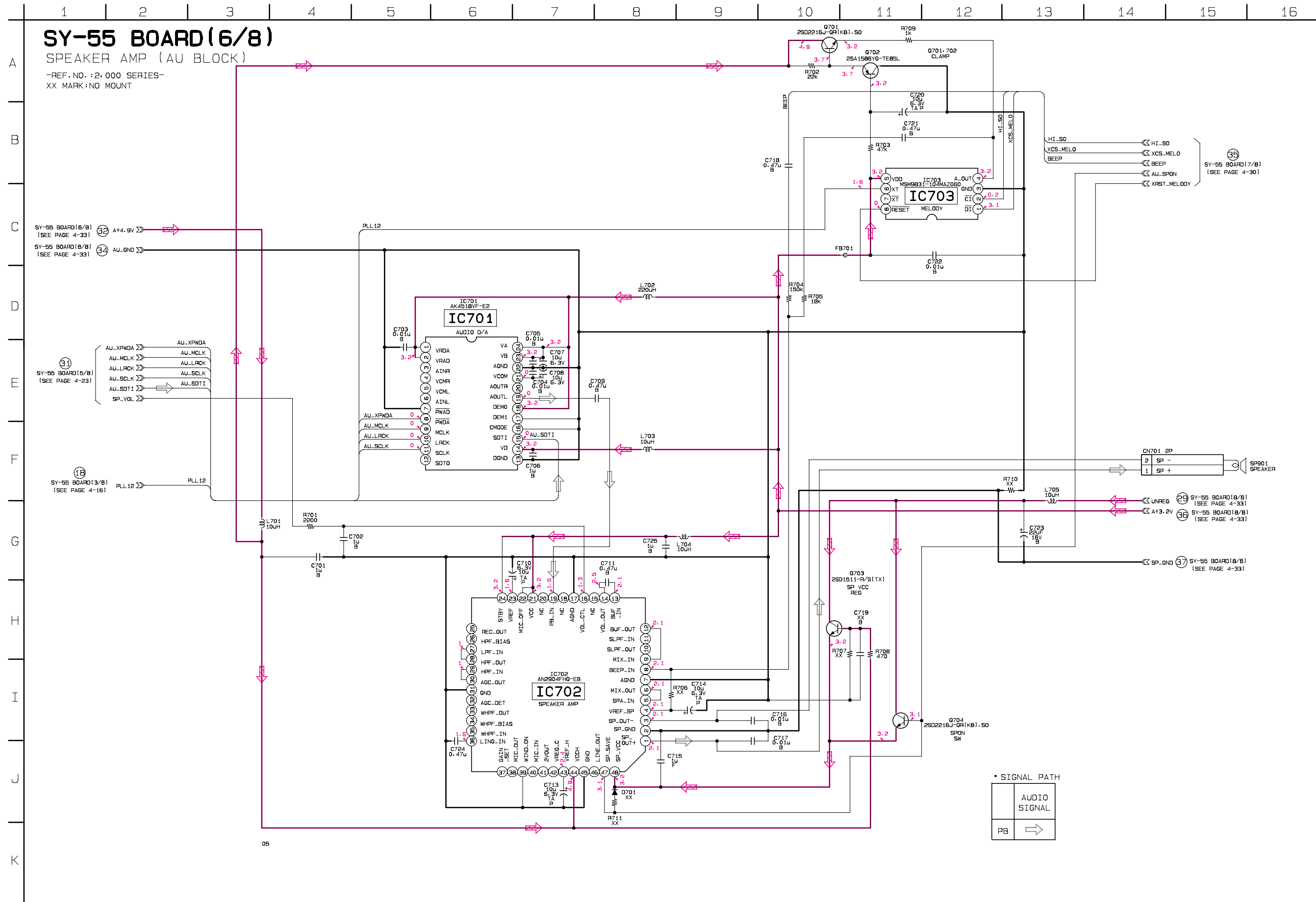


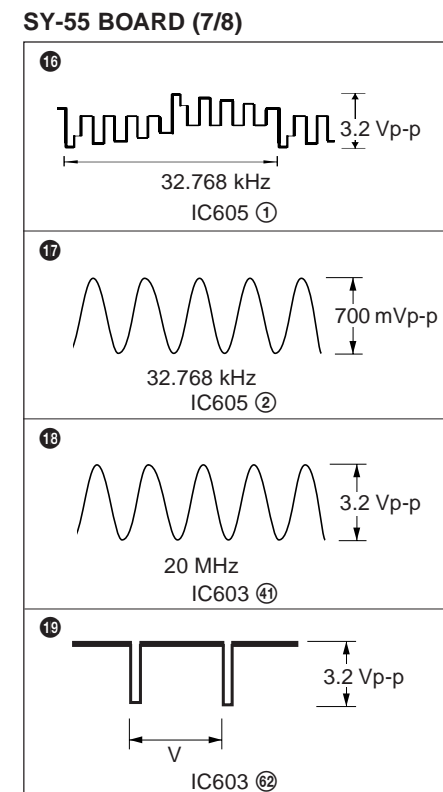
Note:
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

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

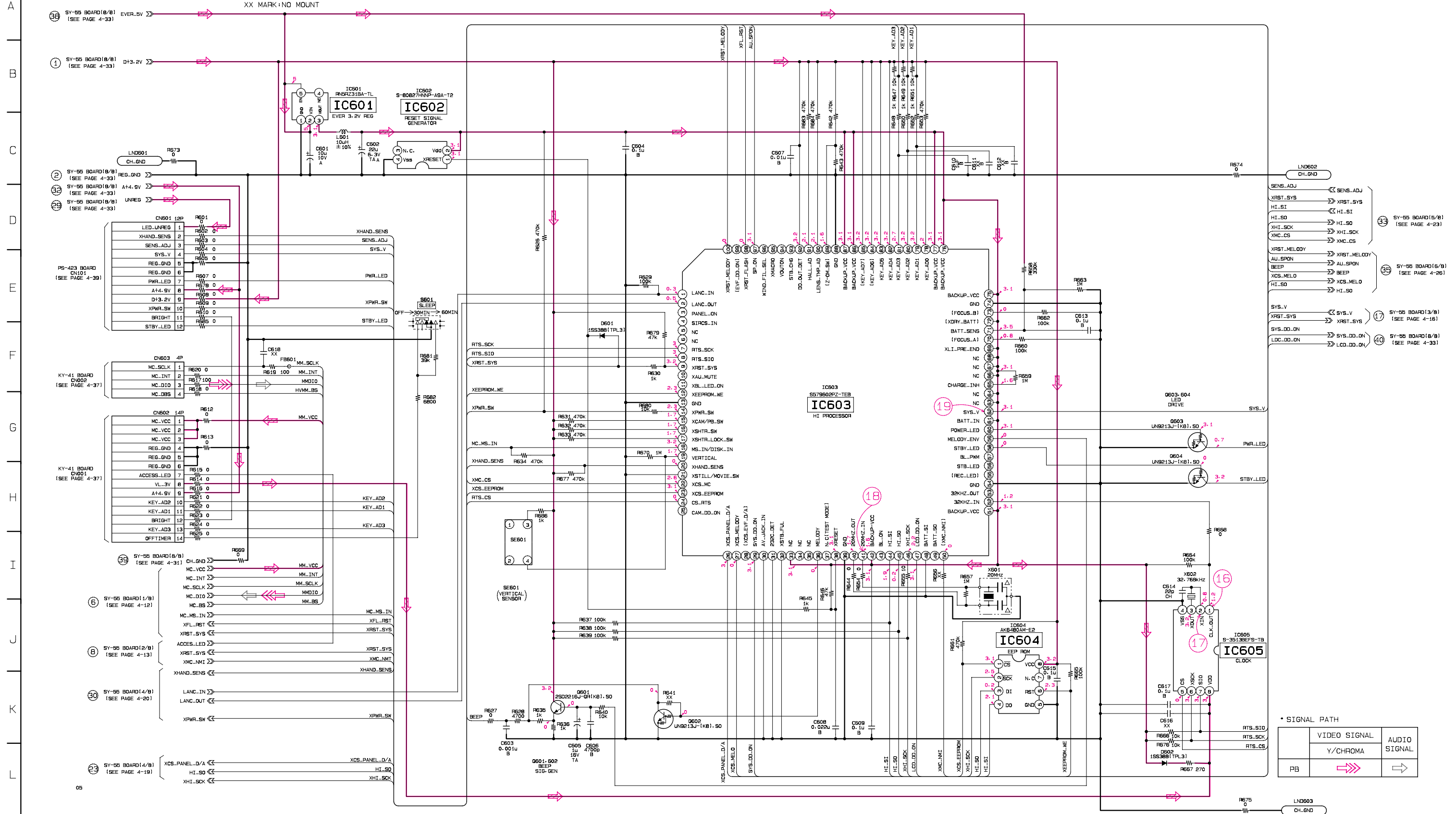


SY-55 (SPEAKER AMP) SCHEMATIC DIAGRAM • See page 4-5 for SY-55 printed wiring board.

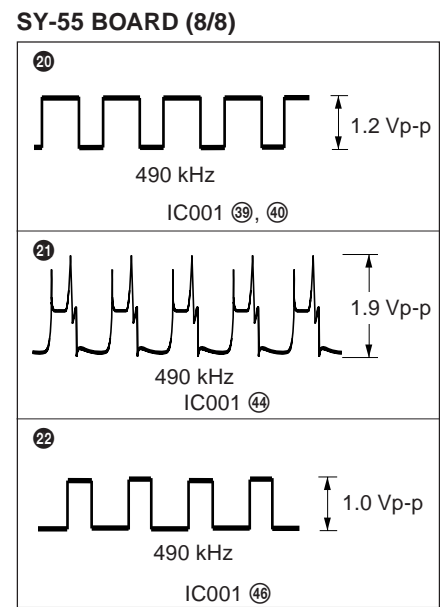
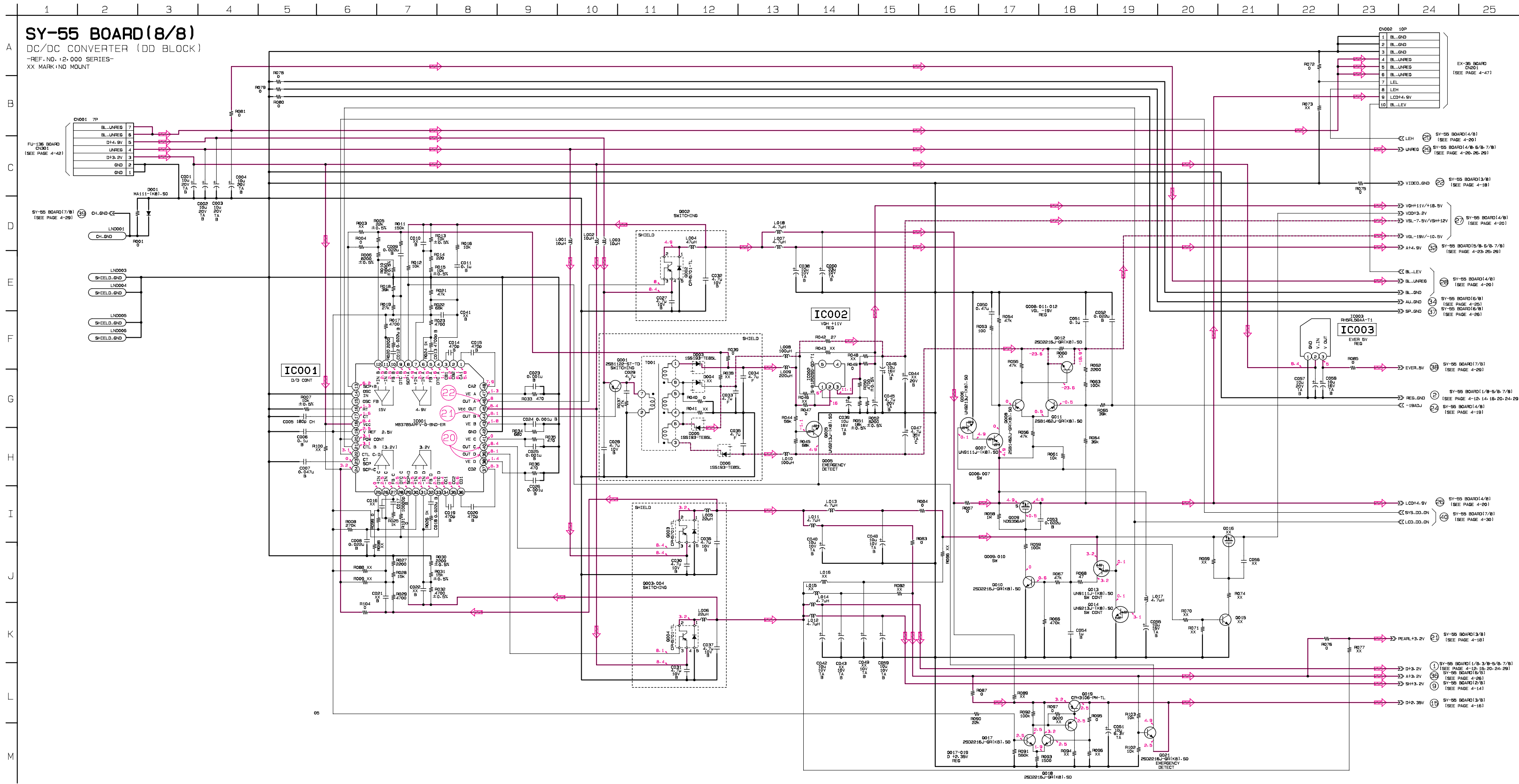




SY-55 BOARD (7/8) MODE CONTROL (HI BLOCK)
-REF. NO. 12000 SERIES-
XX MARK: NO MOUNT



SY-55 (DC/DC CONVERTER) SCHEMATIC DIAGRAM • See page 4-5 for SY-55 printed wiring board.



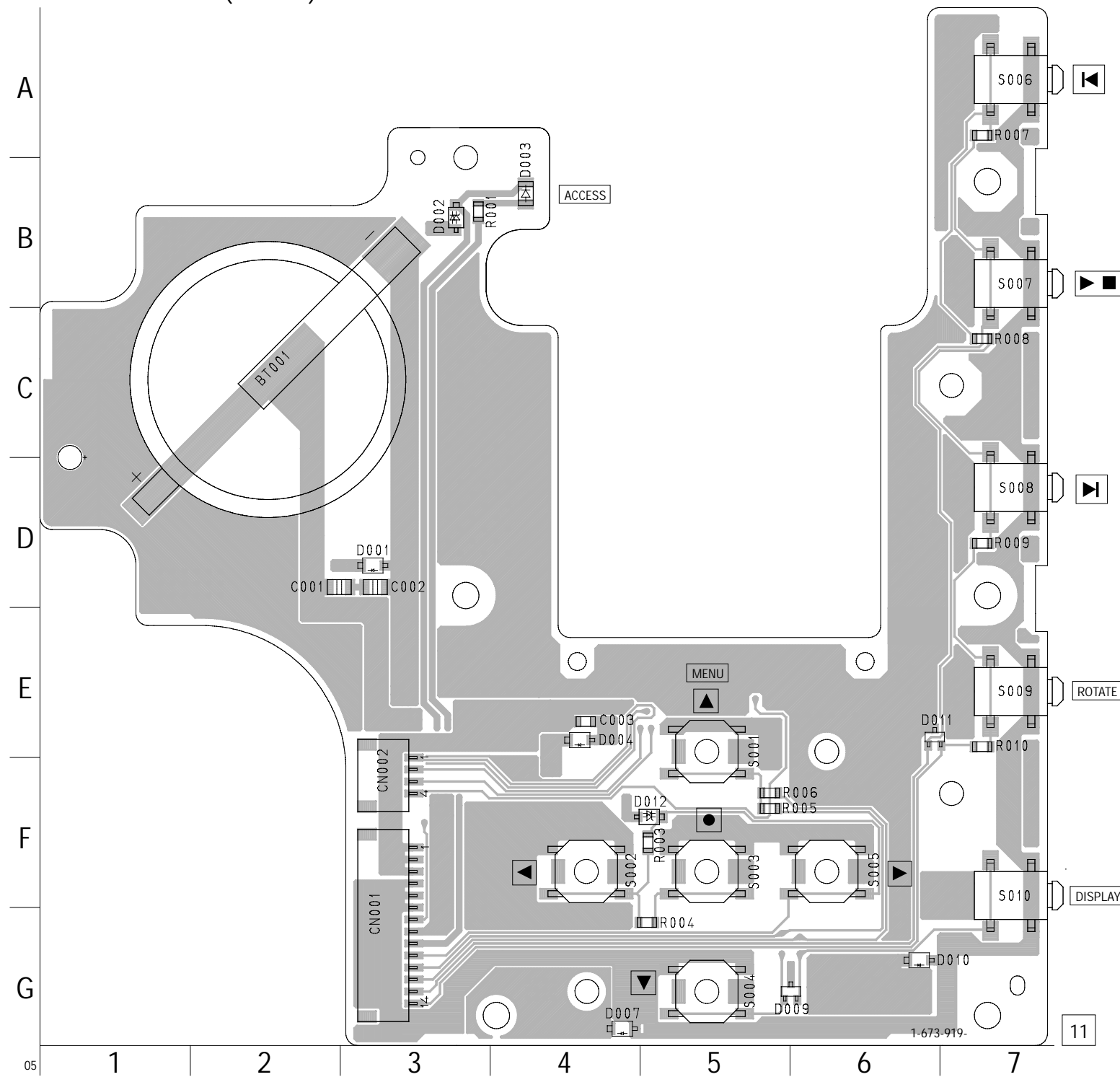
• For Printed Wiring Board.

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

KY-41 BOARD (SIDE A)

KY-41 BOARD (SIDE A)

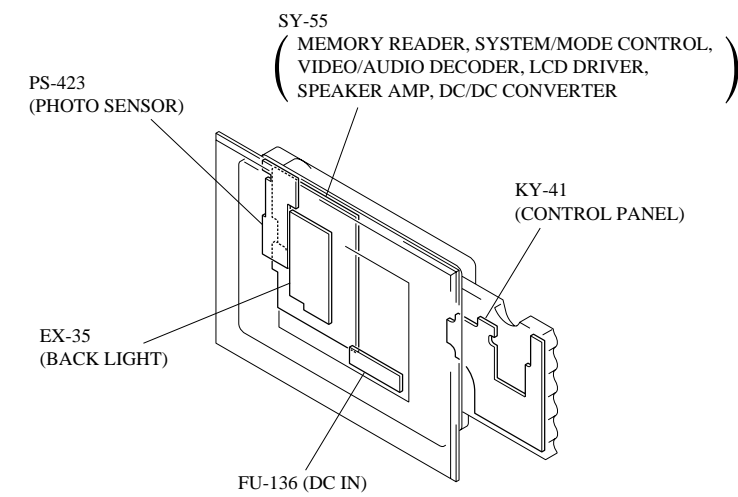
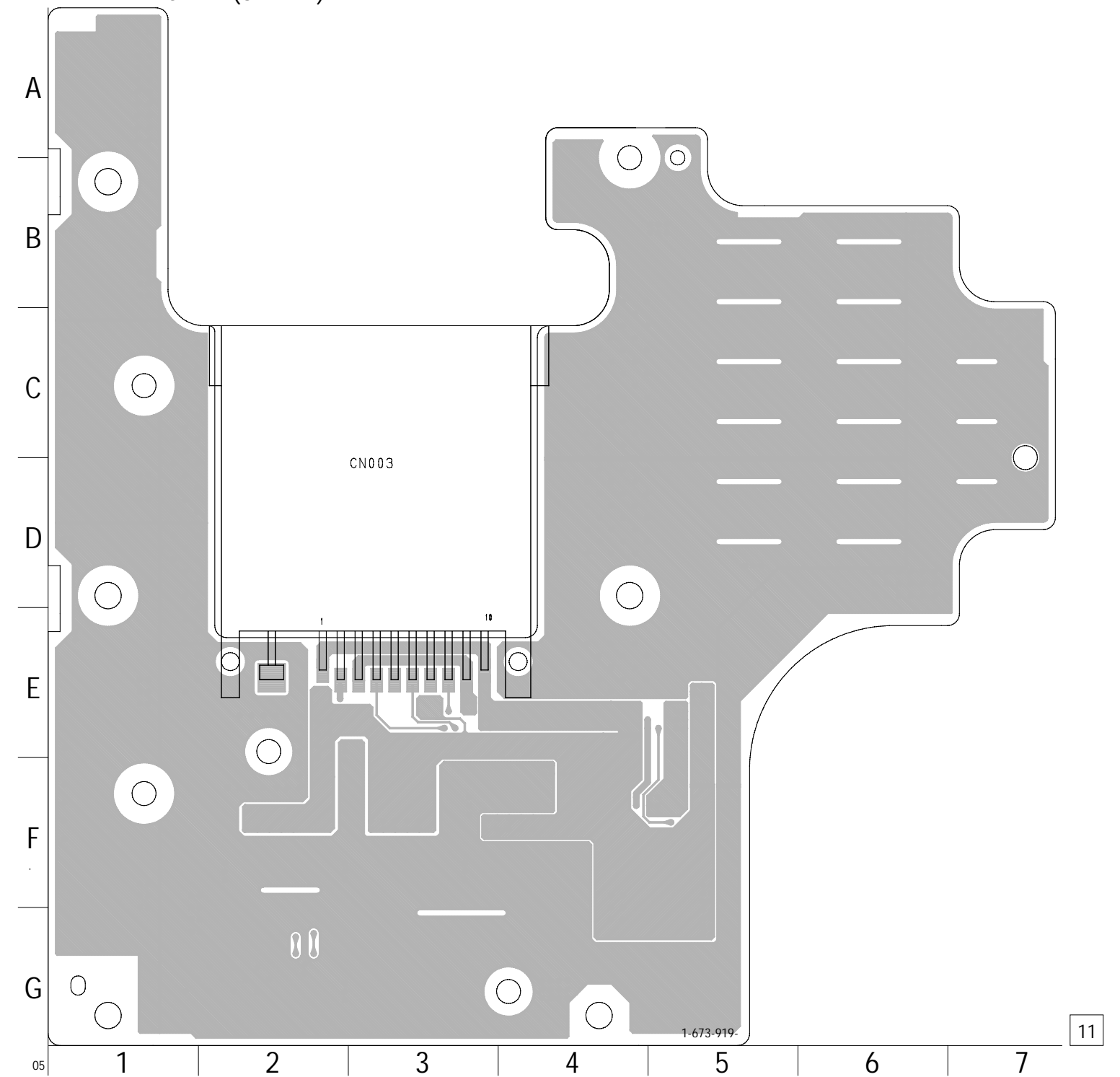
BT001	C-2
C001	D-3
C002	D-3
C003	E-4
CN001	G-3
CN002	F-3
D001	D-3
D002	B-3
D003	B-4
D004	E-4
D007	G-4
D009	G-5
D010	G-7
D011	E-6
D012	F-5
R001	B-3
R003	F-5
R004	G-5
R005	F-5
R006	F-5
R007	A-7
R008	C-7
R009	D-7
R010	F-7
S001	E-5
S002	F-4
S003	F-5
S004	G-5
S005	F-6
S006	A-7
S007	B-7
S008	D-7
S009	E-7
S010	F-7



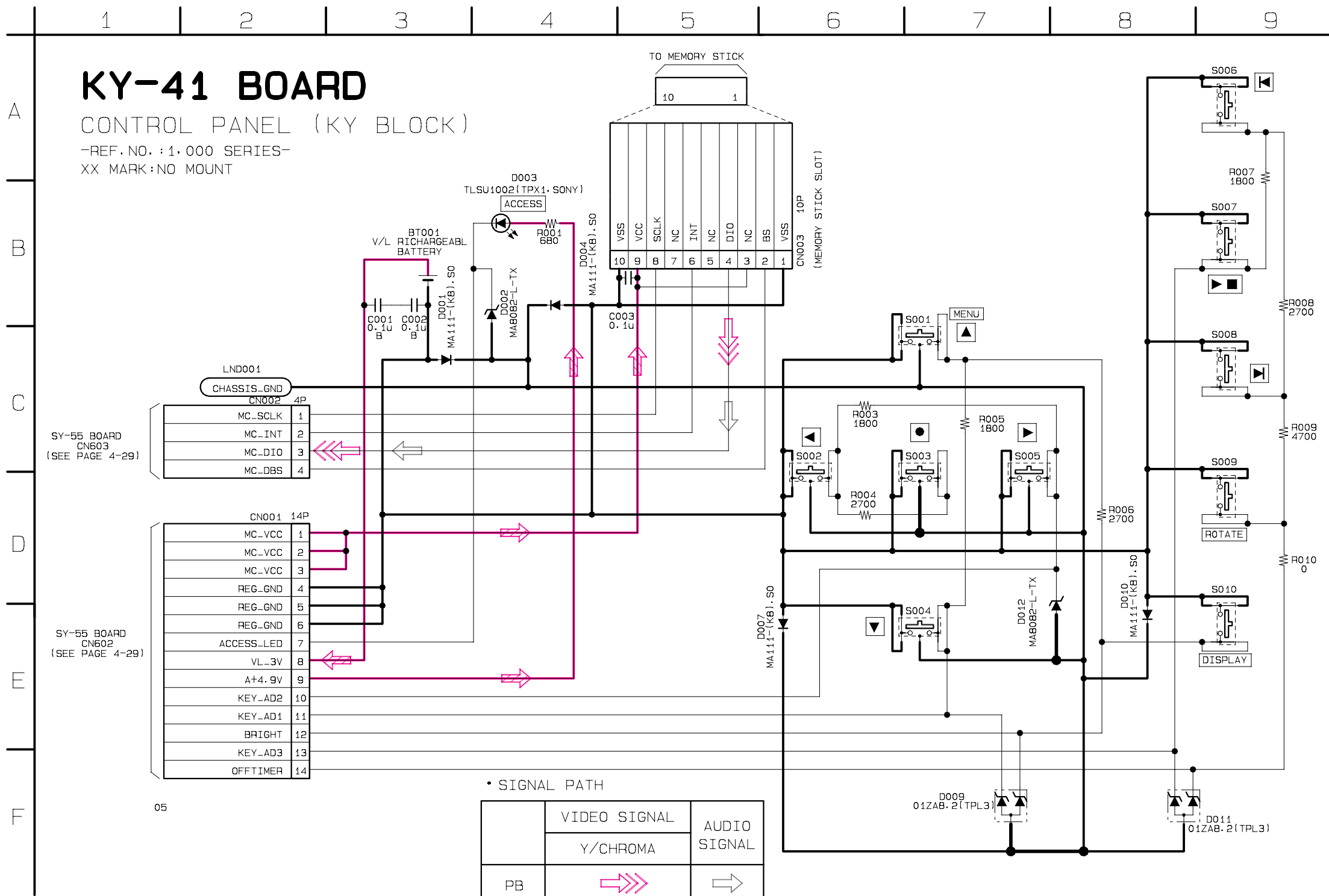
KY-41 BOARD (SIDE B)

KY-41 BOARD (SIDE B)

CN003	C-3
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KY-41 (CONTROL PANEL) SCHEMATIC DIAGRAM

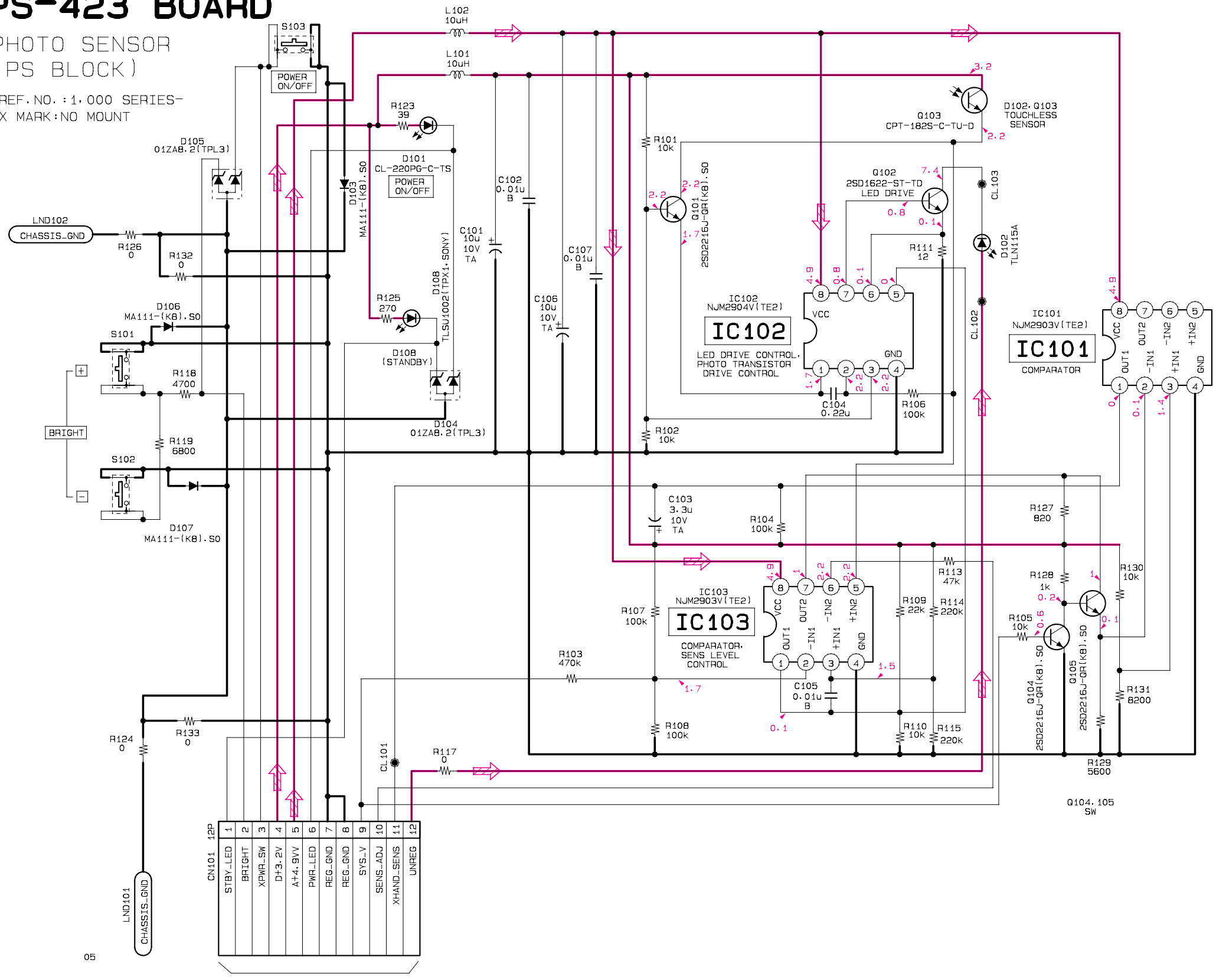


1 2 3 4 5 6 7 8 9 10

PS-423 BOARD

A PHOTO SENSOR (PS BLOCK)
-REF. NO. : 1.000 SERIES-
XX MARK:NO MOUNT

B
C
D
E
F
G
H



PS-423 (PHOTO SENSOR) PRINTED WIRING BOARD

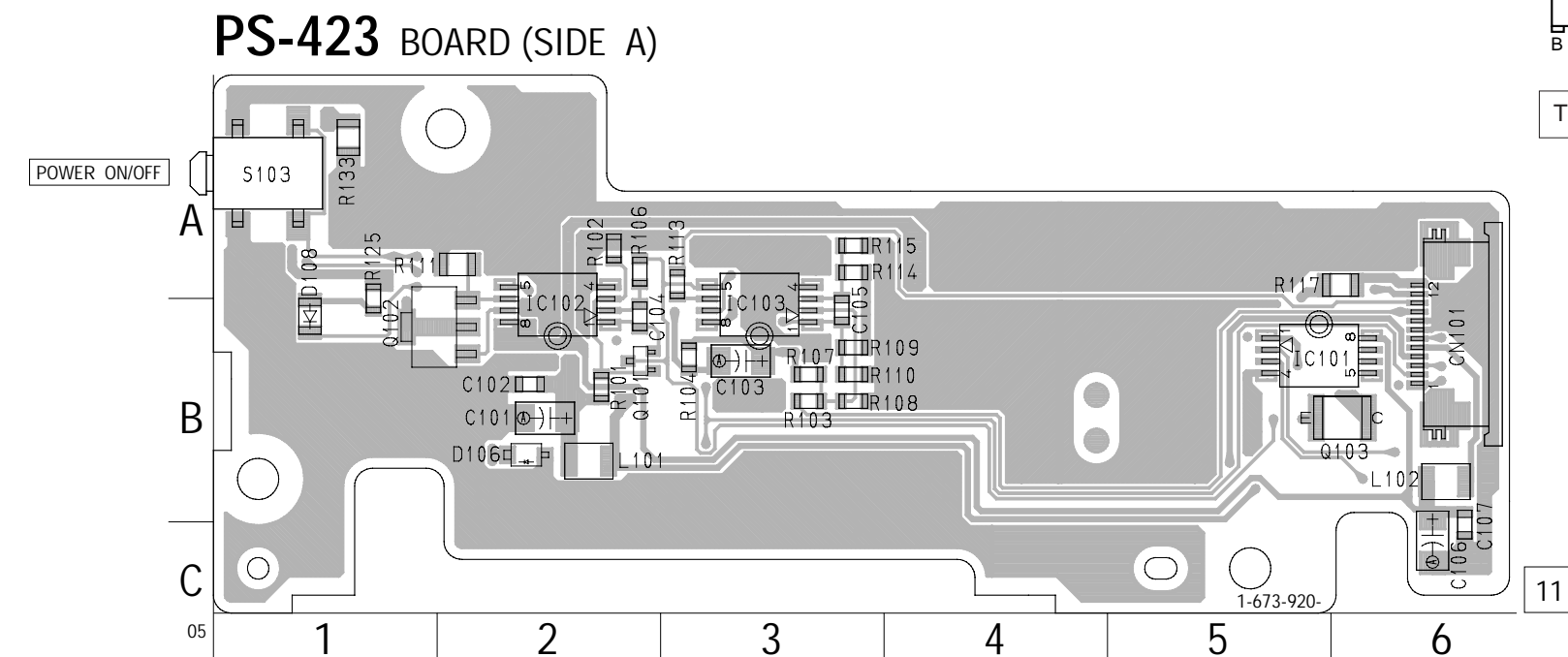
– Ref. No.: PS-423 board; 1,000 series –

• For Printed Wiring Board.

• Chip transistor



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

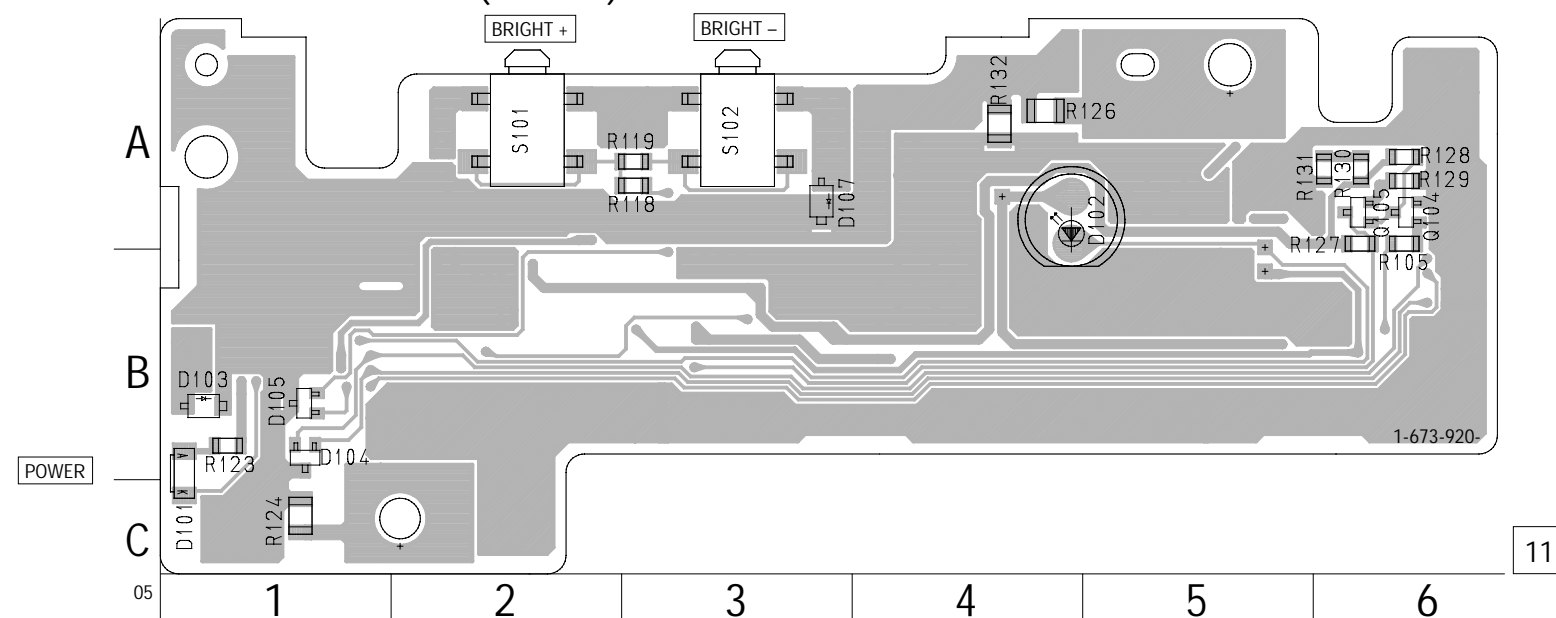


PS-423 BOARD (SIDE A)

C101	B-2	Q101	B-2
C102	B-2	Q102	B-1
C103	B-3	Q103	B-6
C104	B-2		
C105	B-3	R101	B-2
C106	C-6	R102	A-2
C107	C-6	R103	B-3
		R104	B-3
		R106	A-2
		R107	B-3
D106	B-2	R108	B-3
D108	A-1	R109	B-3
		R113	A-3
IC101	B-5	R114	A-3
IC102	B-2	R115	A-3
IC103	B-3	R117	A-6
		R125	B-1
L101	B-2	R133	A-1
L102	B-6		
		S103	A-1

11

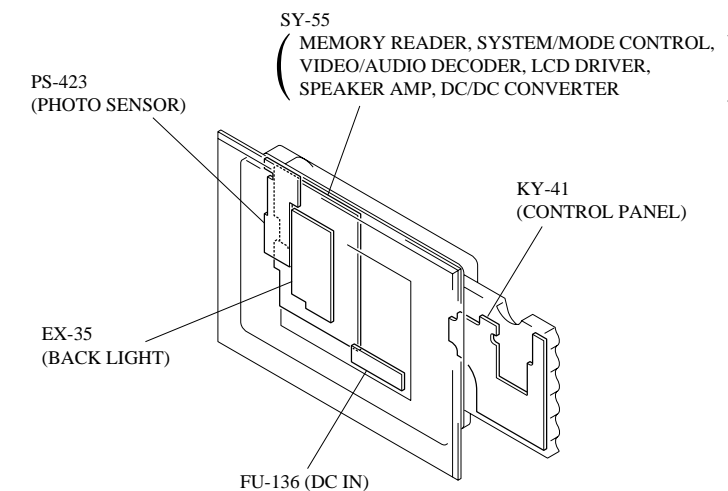
PS-423 BOARD (SIDE B)



PS-423 BOARD (SIDE B)

D101	C-1	R127	A-6
D102	A-5	R128	A-6
D103	B-1	R129	A-6
D104	B-1	R130	A-6
D105	B-1	R131	A-6
D107	A-3	R132	A-4
Q104	A-6	S101	A-2
Q105	A-6	S102	A-3
R105	A-6		
R118	A-3		
R119	A-3		
R123	B-1		
R124	C-1		
R126	A-4		

11

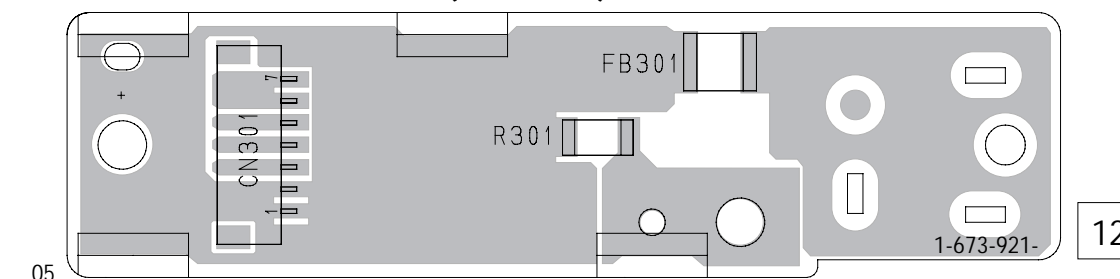


FU-136 (DC IN)

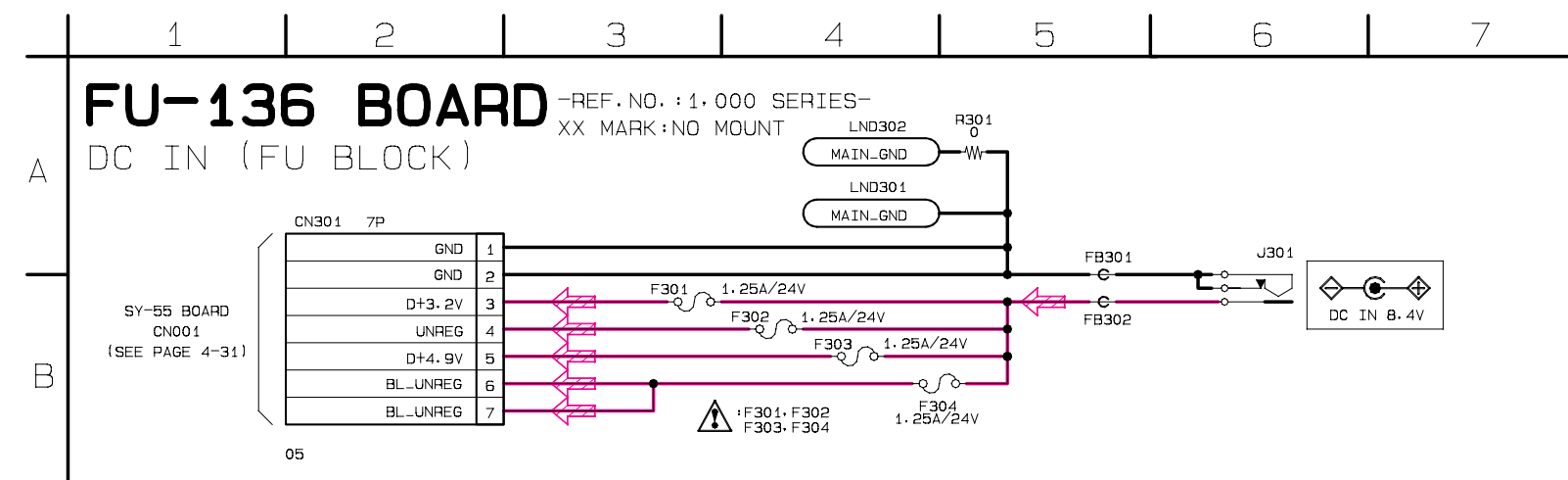
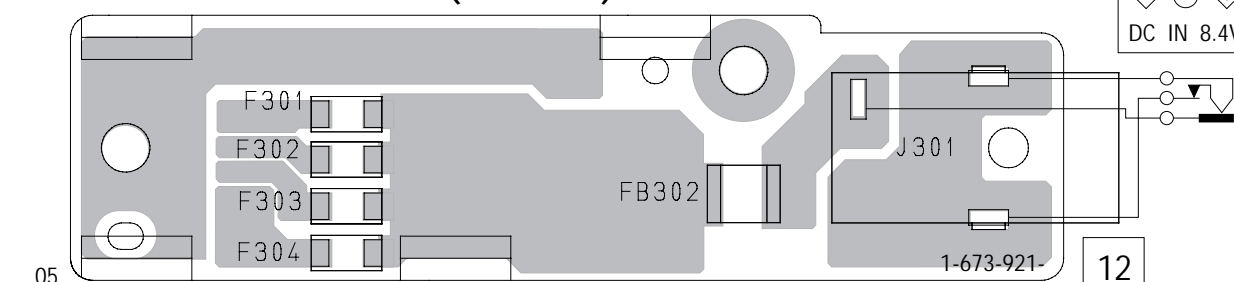
FU-136 (DC IN) PRINTED WIRING BOARD AND SCHEMATIC DIAGRAM

– Ref. No.: FU-136 board; 1,000 series –

FU-136 BOARD (SIDE A)



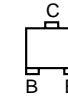
FU-136 BOARD (SIDE B)



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

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

- For Printed Wiring Board.
- EX-35 board is 4-layer print board. However, the patterns of layers 2 and 3 have not been included in the diagram.
- Chip transistor



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

EX-35 BOARD (SIDE A)

C201	A-6
C205	B-5
C206	B-5
C207	A-4
C211	B-4
C212	B-4
C213	C-3
C214	C-2
C215	C-2
C216	C-1

CN202	B-1
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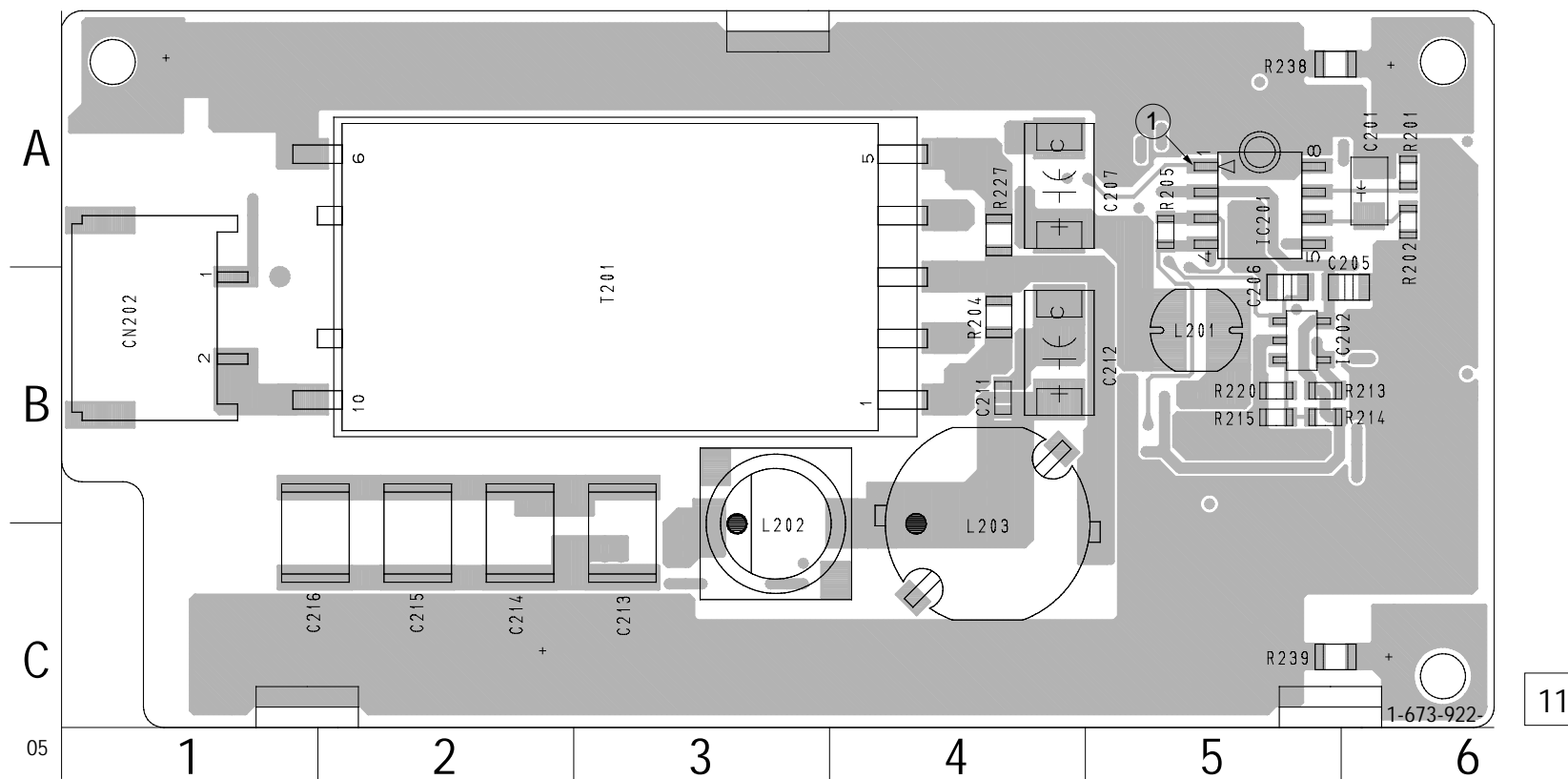
IC201	A-5
IC202	A-5

L201	B-5
L202	C-3
L203	C-4

R201	A-6
R202	A-6
R204	B-4
R205	B-5
R213	B-5
R214	B-5
R215	B-5
R227	A-4
R238	A-5
R239	C-5

T201	B-3
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EX-35 BOARD (SIDE A)



11

EX-35 BOARD (SIDE B)

C202	A-1
C203	A-2
C204	B-2
C208	A-2
C209	A-2
C210	A-2
C219	B-2
C220	C-3
C221	A-1
C222	A-1
C223	B-1
C224	A-2
C225	A-2
C226	A-1
C227	A-1

CN201	B-1
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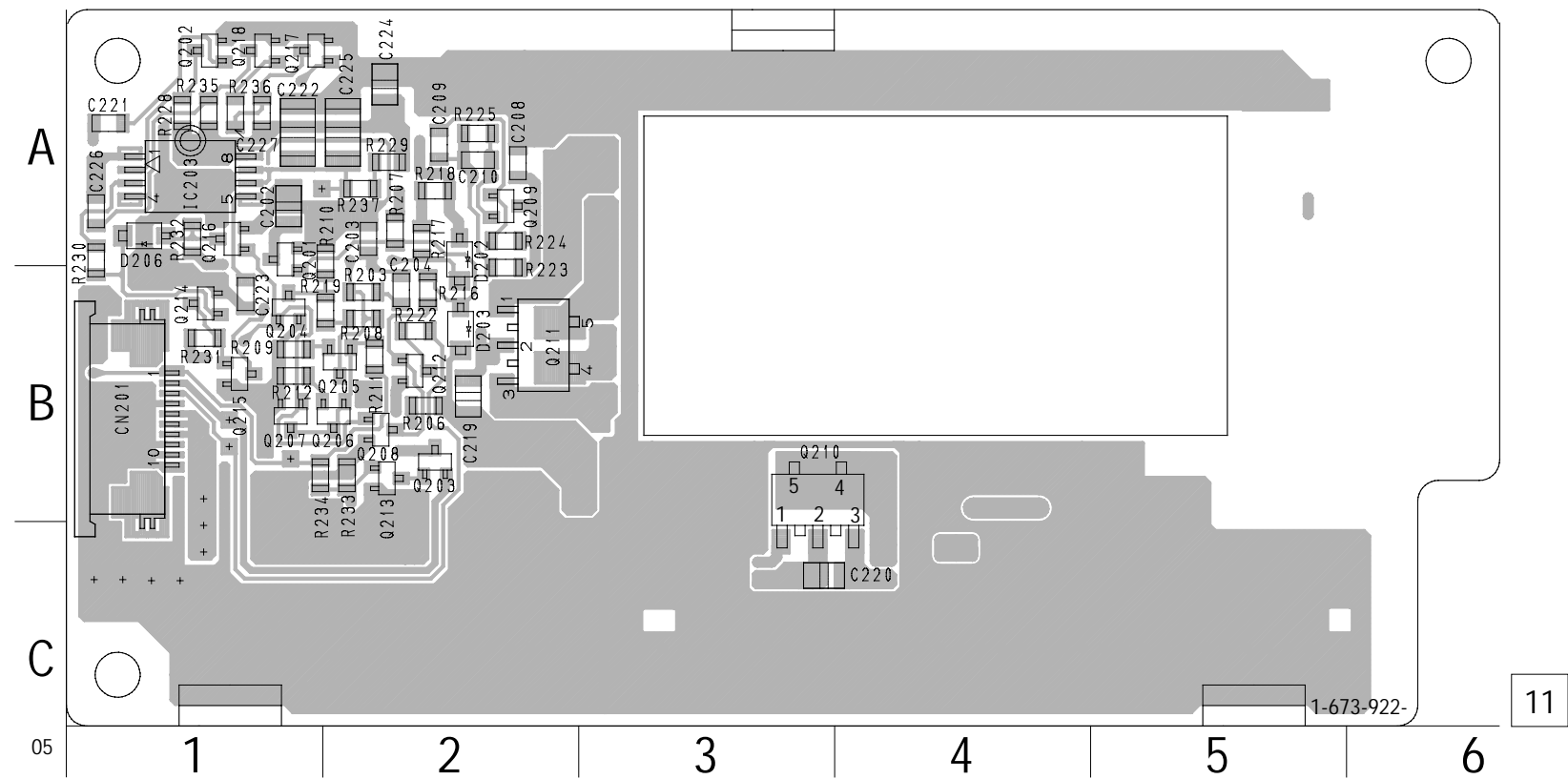
D202	A-2
D203	B-2
D206	A-1

IC203	A-1
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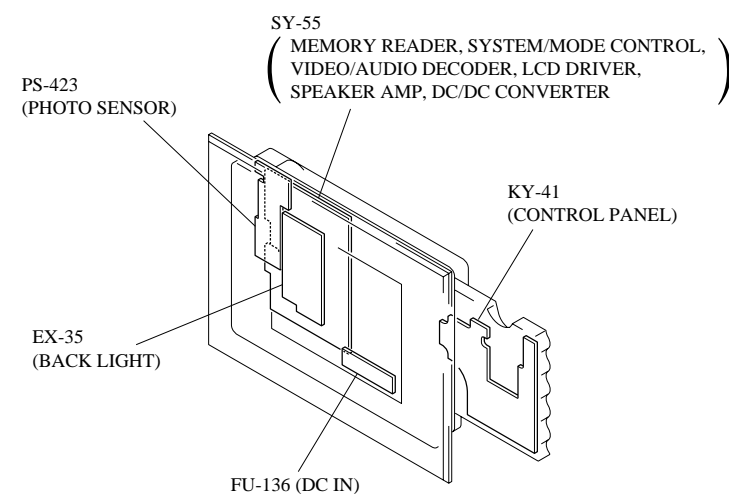
Q201	A-1
Q202	A-1
Q203	B-2
Q204	B-1
Q205	B-2
Q206	B-2
Q207	B-1
Q208	B-2
Q209	A-2
Q210	B-3
Q211	B-2
Q212	B-2
Q213	B-2
Q214	B-1
Q215	B-1
Q216	A-1
Q217	A-1
Q218	A-1

R203	B-2
R206	B-2
R207	A-2
R208	B-2
R209	B-1
R210	A-2
R211	B-2
R212	B-1
R217	A-2
R218	A-2
R219	B-1
R222	B-2
R223	A-2
R224	A-2
R225	A-2
R228	A-1
R229	A-2
R230	A-1
R231	B-1
R232	A-1
R233	B-2
R234	B-1
R235	A-1
R236	A-1
R237	A-2

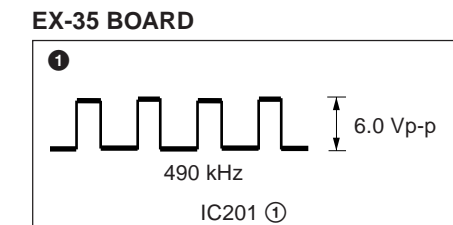
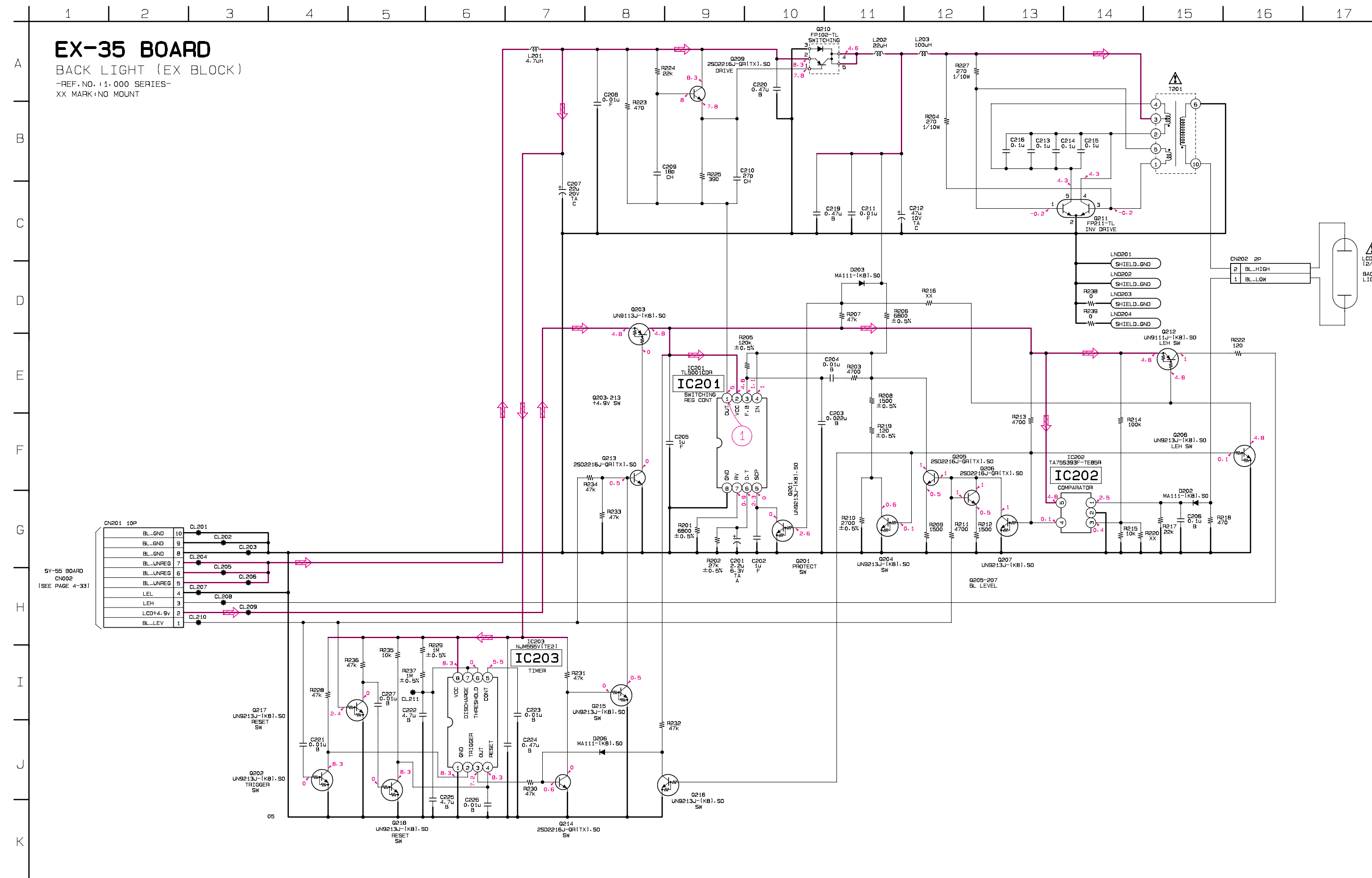
EX-35 BOARD (SIDE B)



11



EX-35 (BACK LIGHT) SCHEMATIC DIAGRAM



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

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

SECTION 5 ELECTRICAL ADJUSTMENTS

5-1. PREPARATIONS BEFORE ADJUSTMENTS

5-1-1. Used Equipment

- 1) Oscilloscope with 2-phenomenon, 30 MHz band, and delay mode (Unless specified otherwise, use a 10 : 1 probe)
- 2) Digital voltmeter
- 3) Adjusting remote control unit (J-6082-053-B)
- 4) CPC-9 jig (J-6082-393-B). (CN802 of the SY-55 board)
- 5) Memory stick for the V COM adjustment (PHMS1-1)
Part code: 8-967-990-03

5-1-2. Connection of Equipment

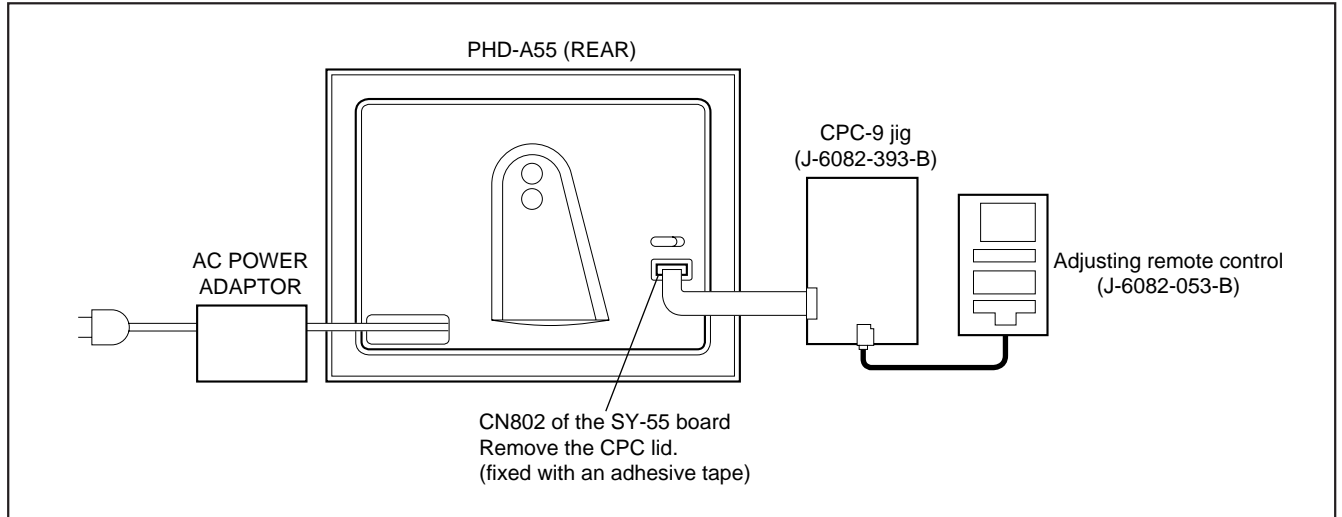


Fig. 5-1-1.

5-1-3. Adjusting Connectors (SY-55 Board CN802)

The adjusting points are concentrated at CN802 of the SY-55 board. Connect the instruments via the CPC-9 jig (J-6082-393-B).

Pin No.	Signal Name	Pin No.	Signal Name
1	C OUT	2	Y OUT
3	XHAND SENS	4	REG GND
5	JIG HD	6	JIG VD
7	HSY(-19V)	8	COM
9	VG	10	UNREG
11	LANC IN	12	LANC OUT
13	XPWR SW	14	HDB
15	SRT	16	FRP
17	SYS V	18	SYNC

Table 5-1-1.

5-1-4. Adjusting Remote Commander

The adjusting remote commander is used for changing the calculation coefficient in signal processing, EVR data, etc. The adjusting 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. Used Adjusting Remote Commander

- 1) Connect the adjusting remote commander to the remote (LANC) terminal. (Refer to Fig. 5-1-1.)
- 2) Adjust the HOLD switch of the adjusting remote commander to "HOLD" (SERVICE position).
- 3) Turn on the power with the POWER switch of the unit.

If it has been properly connected, the LCD on the adjusting remote commander will display as shown in Fig. 5-1-2.

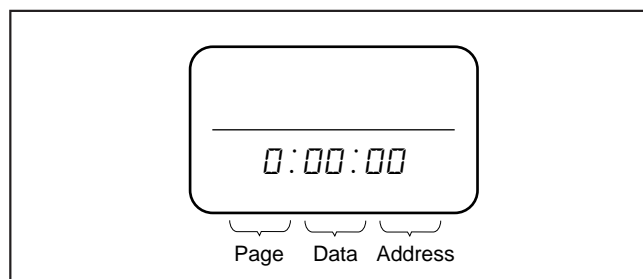


Fig. 5-1-2.

- 4) Operate the adjusting 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

Table 5-1-2.

- 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 in the nonvolatile memory. (The new adjustment data will not be recorded in the nonvolatile memory if this step is not performed)

2. Precautions Upon Using The Adjusting Remote Commander

Mishandling of the adjusting 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.

5-1-5. Data Processing

The calculation of the adjusting remote commander display data (hexadecimal notation) are required for obtaining the adjustment data of some adjustment items. In this case, after converting the hexadecimal notation to decimal notation, calculate and convert the result to hexadecimal notation, and use it as the adjustment data. Table 5-1-3. indicates the hexadecimal notation- the decimal notation, calculation table.

Hexadecimal notation-Decimal notation																
The lower digits of the hexadecimal notation The upper digits of the hexadecimal notation	0	1	2	3	4	5	6	7	8	9	A	B	C	D	F	
											(A)	(b)	(c)	(d)	(E)	(F)
0	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
2	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
3	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
4	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
5	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
6	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111
7	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127
8	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143
9	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159
A (A)	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175
B (b)	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191
C (c)	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207
D (d)	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223
E (E)	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239
F (F)	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255

② ↓

① →

Note : () indicate the adjusting remote control unit display.

(Example) In the case that the adjusting remote control unit display are BD (bd).
As the upper digit of the hexadecimal notation is B (b), and the lower digit is D (d), the intersection “189” of the ① and ② in the above table is the decimal notation to be calculated.

Table 5-1-3.

5-2. LCD ADJUSTMENT

Note 1: A back light (fluorescent tube) is driven with high voltage AC power. Therefore, do not touch the back light directly, otherwise you will feel an electric shock.

Note 2: Taken an extreme care not to destroy the liquid crystal display module by static electricity when replacing it.

Note 3: Adjust the brightness to the center with the BRIGHT +/- buttons (S101, 102 on PS-423 Board).

[Generating method of test signals for adjustment]

If "Test signal generated" is specified in the Mode item, select page: 5, address: F1, and enter data given in the following table with the adjusting remote commander.

Data	Signal
01	100 IRE (100%) white signal
02	50 IRE (50%) white signal
03	Stair-step signal of 10 steps (non burst)
04	color bar
05	Red single color
06	Green single color
07	Blue single color

Table 5-2-1.

1. LCD Initial Data Input

Mode	Playback
Signal	Arbitrary
Adjustment Page	D
Adjustment Address	80 to 8F

Adjusting method

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: D, and enter the data given in the following table.

Note: Press the PAUSE button of the adjusting remote commander each time the data are set, as the data are written to non-volatile memory (EEPROM).

- 3) Select page: 0, address: 01, and set data: 00.

Address	Data	Remark
80	7B	Bright Adjustment
81	69	Color Adjustment
82	6E	White Balance Adjustment
83	6E	
84	87	Contrast Adjustment
85	5F	H Position Adjustment
86	00	Fixed value
87	7A	Panel -19 V Adjustment
88	95	V COM Adjustment
89	60	Fixed value
8A	80	
8B	80	
8C	60	
8D	00	
8E	22	
8F	00	

2. Panel -19 V Adjustment (SY-55 Board)

Adjust the power supply voltage of the LCD panel correctly.

Mode	Playback
Signal	Arbitrary
Measurement Point	Pin ⑦ of CN802 (HSY (-19 V))
Measuring Instrument	Digital voltmeter
Adjustment Page	D
Adjustment Address	87
Specified Value	A = -19 ± 0.05 Vdc

Adjusting method

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: D, address: 87, and change data to adjust the -19 V power supply voltage (A) to the specified value.
- 3) Press the PAUSE button of the adjusting remote commander.
- 4) Select page: 0, address: 01, and set data: 00.

3. H Position Adjustment (SY-55 Board)

Adjust the horizontal position of the LCD panel correctly. The image will shift to the left or right, if disordered.

Mode	Test signal generated (Refer to Table 5-2-1.)
Signal	Color bar
Measurement Point	CH1: Pin ⑩ of CN802 (FRP) CH2: Pin ⑱ of CN802 (SYNC)
Measuring Instrument	Oscilloscope Trigger source: CH1
Adjustment Page	D
Adjustment Address	85
Specified Value	T = 4.82 ± 0.05 μsec

Adjusting method

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: D, address: 85, and change data to adjust the time difference (T) between FRP waveform and SYNC waveform to the specified value.
- 3) Press the PAUSE button of the adjusting remote commander.
- 4) Select page: 0, address: 01, and set data: 00.

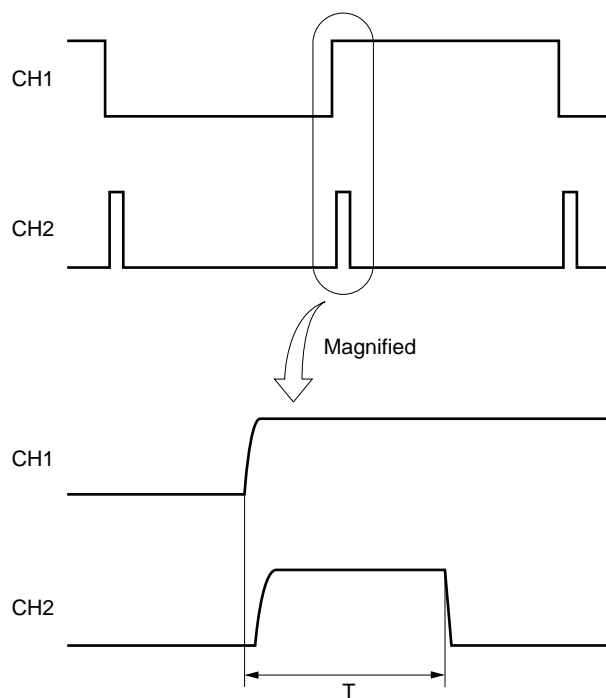


Fig. 5-2-1.

4. Bright Adjustment (SY-55 Board)

This adjustment sets correctly the VIDEO signal level that drives the LCD. If disordered, LCD screen will not be sharp, or will white blur or black blur.

Mode	Test signal generated (Refer to Table 5-2-1.)
Signal	Stair-step signal of 10 steps (non burst)
Measurement Point	Pin ⑨ of CN802 (VG)
Measuring Instrument	Oscilloscope
Adjustment Page	D
Adjustment Address	80
Specified Value	$A = 4.00 \pm 0.05 \text{ V p-p}$

Adjusting method

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: D, address: 80, and change data to adjust the voltage (A) between pedestals of inverting waveform and non-inverting waveform to the specified value.
- 3) Press the PAUSE button of the adjusting remote commander.
- 4) Select page: 0, address: 01, and set data: 00.
- 5) Check that the specification value of the "Contrast Adjustment" is satisfied. If not, perform the "Contrast Adjustment".

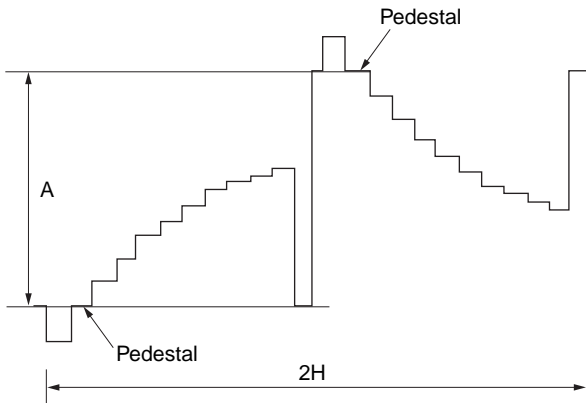


Fig. 5-2-2.

5. Contrast Adjustment (SY-55 Board)

This adjustment sets correctly the VIDEO signal level that drives the LCD. If disordered, LCD screen will not be sharp, or will white blur or black blur.

Mode	Test signal generated (Refer to Table 5-2-1.)
Signal	Stair-step signal of 10 steps (non burst)
Measurement Point	Pin ⑨ of CN802 (VG)
Measuring Instrument	Oscilloscope
Adjustment Page	D
Adjustment Address	84
Specified Value	$A = 2.70 \pm 0.05 \text{ Vp-p}$

Adjusting method

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: D, address: 84, and change data to adjust the voltage (A) between 0 IRE (pedestal) and 90 IRE (white 90%) to the specified value.
- 3) Press the PAUSE button of the adjusting remote commander.
- 4) Select page: 0, address: 01, and set data: 00.
- 5) Check that the specification value of the "Bright Adjustment" is satisfied. If not, perform the "Bright Adjustment".

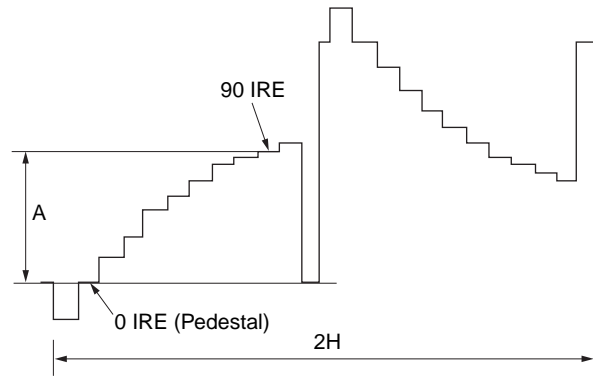


Fig. 5-2-3.

6. Color Adjustment (SY-55 Board)

Set the color to standard value.
The color will be too dark or light, if disordered.

Mode	Test signal generated (Refer to Table 5-2-1.)
Signal	Color bar
Measurement Point	Pin ⑨ of CN802 (VG)
Measuring Instrument	Oscilloscope
Adjustment Page	D
Adjustment Address	81
Specified Value	$A = 0.28 \pm 0.05 V_{p-p}$

Adjusting method

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: D, address: 81, and change data so that the white to green level (A) satisfies the specification value.
- 3) Press the PAUSE button of the adjusting remote commander.
- 4) Select page: 0, address: 01, and set data: 00.

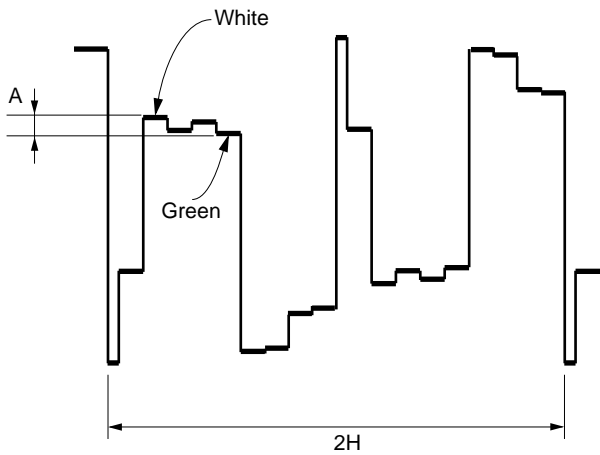


Fig. 5-2-4.

7. V COM Adjustment (SY-55 Board)

This adjustment corrects the DC bias of common electrode drive signals of the LCD panel. If shifted, the LCD screen will be coarse, or flicker, or vertical streaks will appear.

Mode	Play back
Signal	Memory stick for V COM adjustment (PHMS1-1) V COM adjustment signal
Measurement Point Measuring Instrument	Check on LCD screen
Adjustment Page	D
Adjustment Address	88

Note: The “CONTRAST adjustment” and “BRIGHT adjustment” must be already finished.
The mode must not be “test signal generation” mode.
(Check that Select page: 5, address: F1, and set data: 00)

Adjusting method

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: D, address: 88, and change data so as to attain same brightness on the left and right sides of screen.
- 3) Press the PAUSE button of the adjusting remote commander.
- 4) Select page: 0, address: 01, and set data: 00.

8. White Balance Adjustment (SY-55 Board)

This adjustment corrects the white balance.

If disordered, the colors on LCD screen will not be reproduced correctly.

Mode	Test signal generated (Refer to Table 5-2-1.)
Signal	50 IRE (50%) white signal
Measurement Point Measuring Instrument	Check on LCD screen
Adjustment Page	D
Adjustment Address	82, 83
Specified Value	LCD screen must not be colored.

Note: Check the white balance only when either of the following parts was replaced, and make adjustment only if necessary.

1. Liquid crystal display module
2. IC801

Adjusting method

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Check that the LCD screen is not colored. If colored, select page: D, addresses: 82 and 83. Then change data so that the LCD screen is not colored.
- 3) Press the PAUSE button of the adjusting remote commander.
- 4) Select page: 0, address: 01, and set data: 00.

5-3. TOUCHLESS SENSOR ADJUSTMENT

1. Touchless Sensor Adjustment (PS-423 Board)

Mode	Playback
Signal	Arbitrary
Measurement Point	Pin ③ of CN802 (XHAND SENS) on SY-55 board
Measuring Instrument	Digital voltmeter
Adjustment Page	F
Adjustment Address	66
Specified Value	D ₁ = "60" to "90"

Adjusting method

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Do not place something that intercepts the sensor, so that the sensor does not operate.
- 3) Increase data on page: F, address: 66 starting from "50", and obtain data as D₁ when the voltage of XHAND SENS (Pin ③ of CN802) rises over 2.7 Vdc from 0 Vdc.
- 4) Make sure that D₁= "60" to "90".
- 5) Place something that intercepts the sensor, so that the sensor operates. (Within 1cm from acrylic plate)
- 6) D₂ = D₁ + "09".
 (Example) • D₁ = "80" : D₂ = "80" + "09" = "89"
 • D₁ = "82" : D₂ = "82" + "09" = "8B"
- 7) Select page: F, address: 66, and set data: D₂. Then press the PAUSE button of the adjusting remote commander.
- 8) Select page: 0, address: 01, and set data: 00.

2. Touchless Sensor Check (PS-423 Board)

Mode	Playback
Signal	Arbitrary
Measurement Point	Pin ③ of CN802 (XHAND SENS) on SY-55 board
Measuring Instrument	Digital voltmeter
Specified Value	Position of something acrylicplate, which intercepts the sensor 6cm: A=0.5 Vdc or less 8cm: A=3 Vdc or more 1cm: A=0.5 Vdc or less

Check method

- 1) Place something that intercepts the sensor at 6 cm position from acrylic plate, so that the sensor operates.
- 2) Make sure that the voltage (A) of XHAND SENS (Pin ③ of CN802) satisfies the specified value.
- 3) Place something that intercepts the sensor at 8 cm position from acrylic plate, so that the sensor operates.
- 4) Make sure that the voltage (A) of XHAND SENS (Pin ③ of CN802) satisfies the specified value.
- 5) Place something that intercepts the sensor at 1 cm position from acrylic plate, so that the sensor operates.
- 6) Make sure that the voltage (A) of XHAND SENS (Pin ③ of CN802) satisfies the specified value.

SECTION 6 REPAIR PARTS LIST

6-1. EXPLODED VIEWS

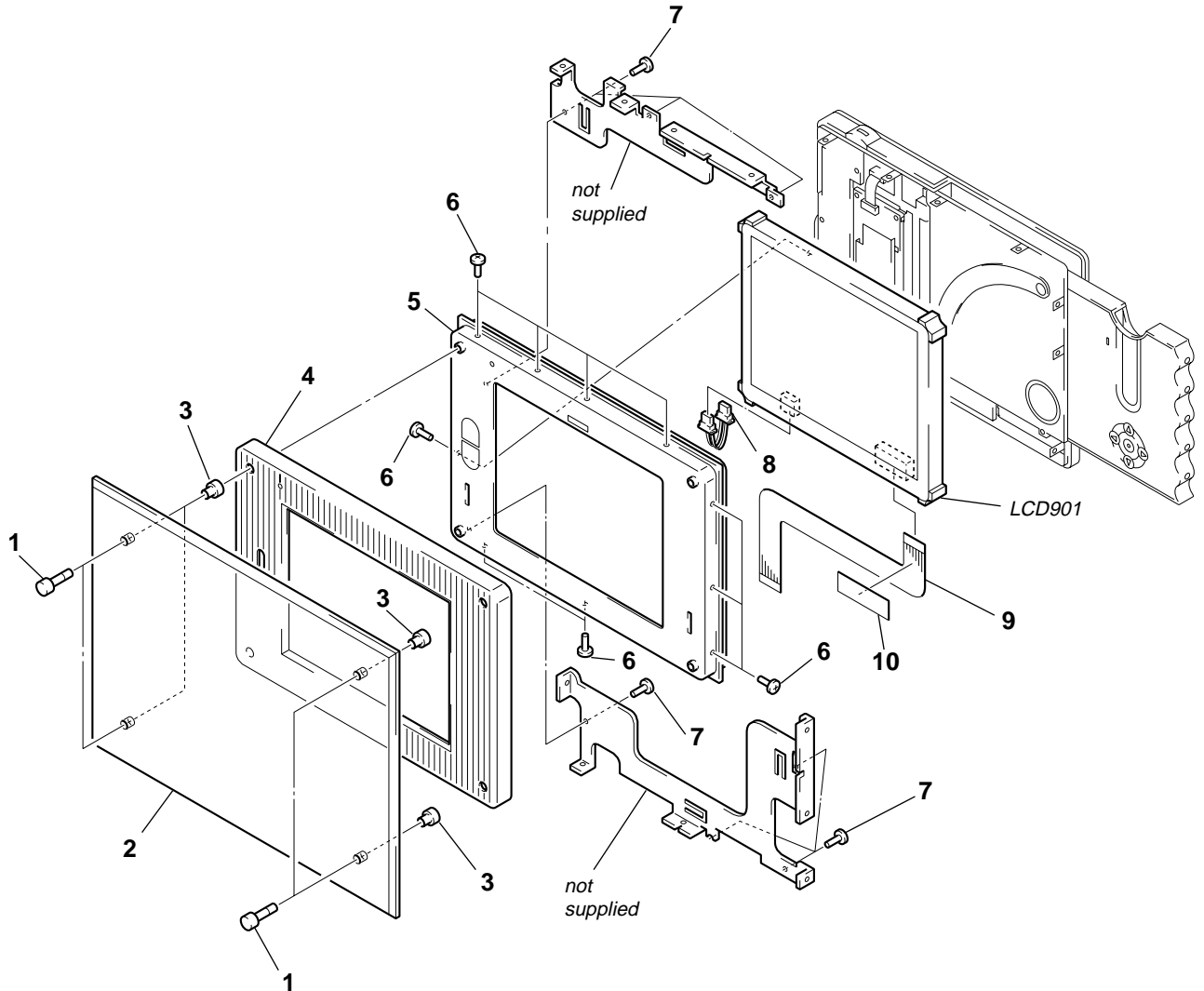
NOTE:

- -XX and -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.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Accessories are given in the last of the electrical parts list.

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

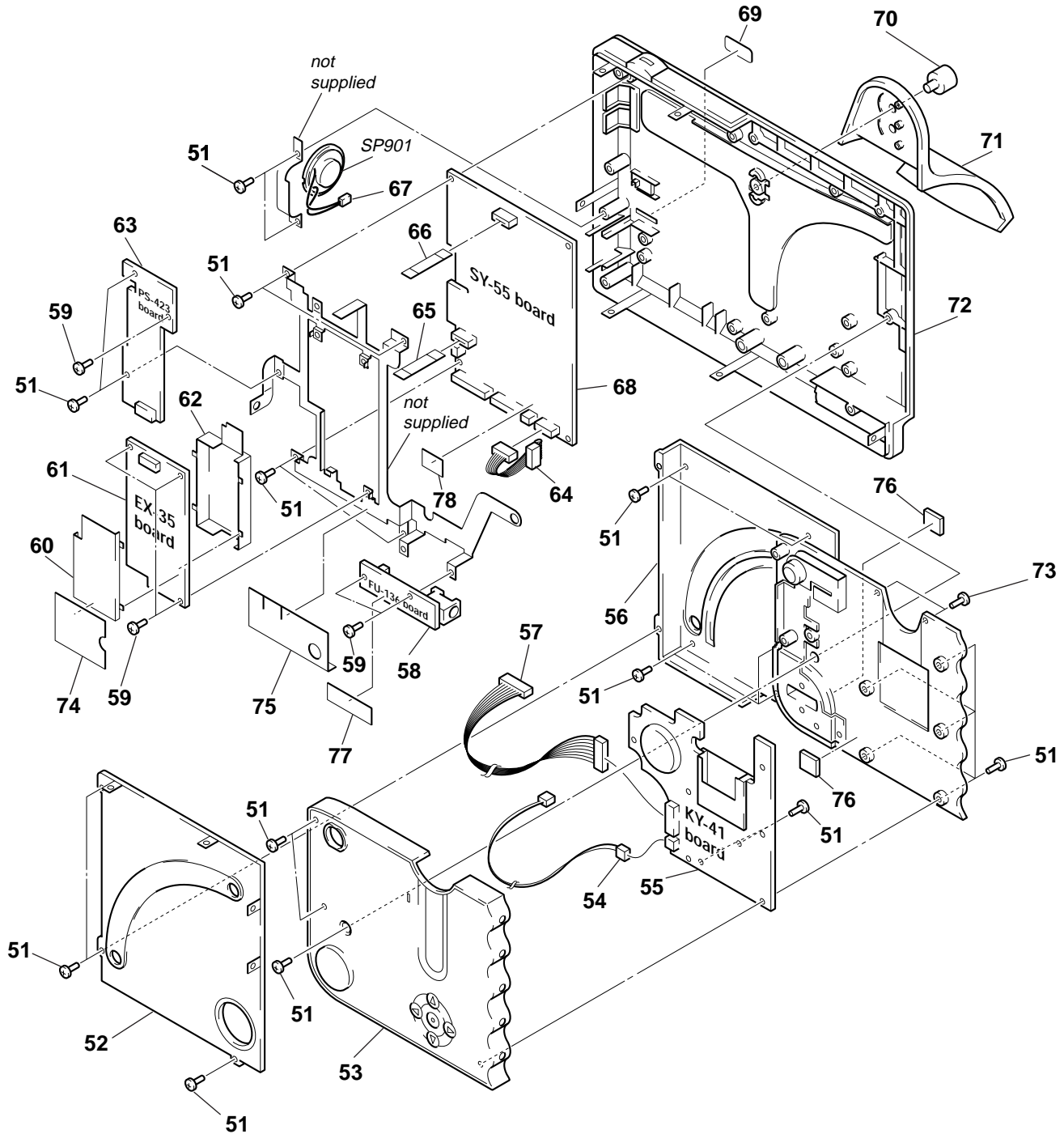
Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

6-1-1. FRONT CABINET ASSEMBLY



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	X-3949-792-1	SCREW ASSY, PANEL		6	3-968-729-81	SCREW (M2), LOCK ACE, P2	
2	3-055-652-01	PANEL, CLEAR		7	3-948-339-01	SCREW, TAPPING	
3	3-055-654-01	SPACER, PANEL		Δ 8	1-959-825-11	HARNESS (EP-54)	
4	3-055-653-01	PLATE, ORNAMENTAL (GREEN STONE)		9	1-673-923-11	FP-113 FLEXIBLE BOARD	
4	3-055-653-11	PLATE, ORNAMENTAL (TERRA COTTA)		10	3-056-245-01	FP GUARD	
5	X-3949-659-1	CABINET ASSY, FRONT		Δ LCD901	1-801-904-24	MODULE, CRYSTAL INDICATION	

6-1-2. REAR CABINET AND CONTROL PANEL ASSEMBLIES



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	3-948-339-01	SCREW, TAPPING		66	1-790-721-11	CABLE, FLEXIBLE FLAT (FFC-279)	
* 52	3-055-644-01	COVER (F), CENTER		67	1-959-824-11	HARNESS (FF-200)	
53	X-3949-661-1	PANEL (F) ASSY, CONTROL		68	A-7094-496-A	SY-55 BOARD, COMPLETE	
54	1-959-714-11	HARNESS (FF-198)		69	3-055-650-01	LID, CPC	
* 55	A-7074-005-A	KY-41 BOARD, COMPLETE		70	X-3949-815-1	SCREW ASSY, STAND	
56	X-3949-662-1	PANEL (R) ASSY, CONTROL		71	X-3949-663-1	STAND ASSY	
57	1-959-713-11	HARNESS (FF-197)		72	X-3949-660-1	CABINET ASSY, REAR	
* 58	A-7074-003-A	FU-136 BOARD, COMPLETE		73	3-713-791-51	SCREW (M1.7X3.5), TAPPING, P2	
59	3-713-786-21	SCREW (M2X3)		74	3-056-243-01	SHEET, SHIELD	
* 60	3-978-724-11	CASE (B), EX SHIELD		75	3-056-244-01	SHEET, FRAME	
* 61	A-7074-002-A	EX-35 BOARD, COMPLETE		76	3-056-326-01	FF SPACER	
* 62	3-978-723-11	CASE (A), EX SHIELD		77	3-056-245-01	FP GUARD	
* 63	A-7074-004-A	PS-423 BOARD, COMPLETE		* 78	3-056-454-01	SHEET, SY SHIELD	
64	1-959-712-11	HARNESS (FF-196)		SP901	1-505-278-11	SPEAKER (DIA 2.3cm)	
65	1-790-730-11	CABLE, FLEXIBLE FLAT (FFC-278)					

6-2. 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 and -X mean standardized parts, so they may have some difference from the original one.
- **RESISTORS**
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable

- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- **SEMICONDUCTORS**
In each case, u: μ, for example:
uA. . . : μA. . . uPA. . . : μPA. . .
uPB. . . : μPB. . . uPC. . . : μPC. . .
uPD. . . : μPD. . .
- **CAPACITORS**
uF: μF
- **COILS**
uH: μH

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.

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
*	A-7074-002-A	EX-35 BOARD, COMPLETE ***** (Ref.No. 1,000 Series)		IC203	8-759-574-64	IC NJM555V(TE2)	
		< CAPACITOR >				< COIL >	
C201	1-135-149-21	TANTALUM CHIP 2.2uF	20% 10V	L201	1-414-863-11	INDUCTOR 4.7uH	
C202	1-164-346-11	CERAMIC CHIP 1uF	16V	L202	1-411-705-11	INDUCTOR 22uH	
C203	1-164-227-11	CERAMIC CHIP 0.022uF	10% 25V	L203	1-415-929-21	INDUCTOR 100uH	
C204	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V			< TRANSISTOR >	
C205	1-164-346-11	CERAMIC CHIP 1uF	16V	Q201	8-729-037-74	TRANSISTOR UN9213J-(K8).SO	
C206	1-164-004-11	CERAMIC CHIP 0.1uF	10% 25V	Q202	8-729-037-74	TRANSISTOR UN9213J-(K8).SO	
C207	1-113-981-11	TANTAL. CHIP 22uF	20% 20V	Q203	8-729-037-61	TRANSISTOR UN9113J-(K8).SO	
C208	1-162-974-11	CERAMIC CHIP 0.01uF	50V	Q204	8-729-037-74	TRANSISTOR UN9213J-(K8).SO	
C209	1-162-918-11	CERAMIC CHIP 18PF	5% 50V	Q205	8-729-037-52	TRANSISTOR 2SD2216J-QR(TX).SO	
C210	1-162-920-11	CERAMIC CHIP 27PF	5% 50V	Q206	8-729-037-52	TRANSISTOR 2SD2216J-QR(TX).SO	
C211	1-162-974-11	CERAMIC CHIP 0.01uF	50V	Q207	8-729-037-74	TRANSISTOR UN9213J-(K8).SO	
C212	1-113-642-11	TANTAL. CHIP 47uF	20% 10V	Q208	8-729-037-74	TRANSISTOR UN9213J-(K8).SO	
C213	1-117-749-11	FILM CHIP 0.1uF	20% 50V	Q209	8-729-037-52	TRANSISTOR 2SD2216J-QR(TX).SO	
C214	1-117-749-11	FILM CHIP 0.1uF	20% 50V	Q210	8-729-823-84	TRANSISTOR FP102-TL	
C215	1-117-749-11	FILM CHIP 0.1uF	20% 50V	Q211	8-729-042-87	TRANSISTOR FP211-TL	
C216	1-117-749-11	FILM CHIP 0.1uF	20% 50V	Q212	8-729-042-58	TRANSISTOR UN9111J-(K8).SO	
C219	1-107-823-11	CERAMIC CHIP 0.47uF	10% 16V	Q213	8-729-037-52	TRANSISTOR 2SD2216J-QR(TX).SO	
C220	1-107-823-11	CERAMIC CHIP 0.47uF	10% 16V	Q214	8-729-037-52	TRANSISTOR 2SD2216J-QR(TX).SO	
C221	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V	Q215	8-729-037-74	TRANSISTOR UN9213J-(K8).SO	
C222	1-115-566-11	CERAMIC CHIP 4.7uF	10% 10V	Q216	8-729-037-74	TRANSISTOR UN9213J-(K8).SO	
C223	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V	Q217	8-729-037-74	TRANSISTOR UN9213J-(K8).SO	
C224	1-107-823-11	CERAMIC CHIP 0.47uF	10% 16V	Q218	8-729-037-74	TRANSISTOR UN9213J-(K8).SO	
C225	1-115-566-11	CERAMIC CHIP 4.7uF	10% 10V			< RESISTOR >	
C226	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V	R201	1-218-867-11	RES, CHIP 6.8K 0.50% 1/16W	
C227	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V	R202	1-218-881-11	RES, CHIP 27K 0.50% 1/16W	
		< CONNECTOR >		R203	1-216-829-11	METAL CHIP 4.7K 5% 1/16W	
CN201	1-691-348-11	CONNECTOR, FFC/FPC (ZIF) 10P		R204	1-216-035-00	METAL CHIP 270 5% 1/10W	
CN202	1-778-330-21	PIN, CONNECTOR (PC BOARD) 2P		R205	1-218-897-11	RES, CHIP 120K 0.50% 1/16W	
		< DIODE >		R206	1-218-867-11	RES, CHIP 6.8K 0.50% 1/16W	
D202	8-719-073-01	DIODE MA111-(K8).SO		R207	1-216-841-11	METAL CHIP 47K 5% 1/16W	
D203	8-719-073-01	DIODE MA111-(K8).SO		R208	1-218-851-11	RES, CHIP 1.5K 0.50% 1/16W	
D206	8-719-073-01	DIODE MA111-(K8).SO		R209	1-216-823-11	METAL CHIP 1.5K 5% 1/16W	
		< IC >		R210	1-218-857-11	RES, CHIP 2.7K 0.50% 1/16W	
IC201	8-759-521-35	IC TL5001CDR		R211	1-216-829-11	METAL CHIP 4.7K 5% 1/16W	
IC202	8-759-075-70	IC TA75S393F-TE85R		R212	1-216-823-11	METAL CHIP 1.5K 5% 1/16W	
				R213	1-216-829-11	METAL CHIP 4.7K 5% 1/16W	
				R214	1-216-845-11	METAL CHIP 100K 5% 1/16W	
				R215	1-216-833-91	RES, CHIP 10K 5% 1/16W	

EX-35**FU-136****KY-41****PS-423**

Ref. No.	Part No.	Description	Remark
R217	1-216-837-11	METAL CHIP 22K	5% 1/16W
R218	1-216-817-11	METAL CHIP 470	5% 1/16W
R219	1-218-825-11	RES, CHIP 120	0.50% 1/16W
R222	1-216-810-11	METAL CHIP 120	5% 1/16W
R223	1-216-817-11	METAL CHIP 470	5% 1/16W
R224	1-216-837-11	METAL CHIP 22K	5% 1/16W
R225	1-216-816-11	METAL CHIP 390	5% 1/16W
R227	1-216-035-00	METAL CHIP 270	5% 1/10W
R228	1-216-841-11	METAL CHIP 47K	5% 1/16W
R229	1-216-857-11	METAL CHIP 1M	5% 1/16W
R230	1-216-841-11	METAL CHIP 47K	5% 1/16W
R231	1-216-841-11	METAL CHIP 47K	5% 1/16W
R232	1-216-841-11	METAL CHIP 47K	5% 1/16W
R233	1-216-841-11	METAL CHIP 47K	5% 1/16W
R234	1-216-841-11	METAL CHIP 47K	5% 1/16W
R235	1-216-833-91	RES, CHIP 10K	5% 1/16W
R236	1-216-841-11	METAL CHIP 47K	5% 1/16W
R237	1-216-857-11	METAL CHIP 1M	5% 1/16W
R238	1-216-295-91	SHORT 0	
R239	1-216-295-91	SHORT 0	
< TRANSFORMER >			
△ T201	1-431-547-11	TRANSFORMER, DC/AC INVERTER	
<hr/>			
*	A-7074-003-A	FU-136 BOARD, COMPLETE ***** (Ref.No. 1,000 Series)	
< CONNECTOR >			
CN301	1-784-210-21	CONNECTOR 7P	
< FUSE >			
△ F301	1-533-709-	FUSE (SMD) (1.25A)	
△ F302	1-533-709-	FUSE (SMD) (1.25A)	
△ F303	1-533-709-	FUSE (SMD) (1.25A)	
△ F304	1-533-709-	FUSE (SMD) (1.25A)	
< FERRITE BEAD >			
FB301	1-469-450-21	INDUCTOR 0UH	
FB302	1-469-450-21	INDUCTOR 0UH	
< JACK >			
J301	1-778-380-11	JACK,DC(POLARITY UNIFIED TYPE) (DC IN 8.4V)	
< RESISTOR >			
R301	1-216-296-11	SHORT 0	
<hr/>			
*	A-7074-005-A	KY-41 BOARD, COMPLETE ***** (Ref.No. 1,000 Series)	
< BATTERY >			
BT001	1-528-694-11	BATTERY, V/L RICHARGEABL	

Ref. No.	Part No.	Description	Remark
< CAPACITOR >			
C001	1-164-004-11	CERAMIC CHIP 0.1uF	10% 25V
C002	1-164-004-11	CERAMIC CHIP 0.1uF	10% 25V
C003	1-107-826-91	CERAMIC CHIP 0.1uF	10% 16V
< CONNECTOR >			
CN001	1-778-336-21	PIN, CONNECTOR (PC BOARD) 14P	
CN002	1-770-621-21	PIN, CONNECTOR 4P	
CN003	1-785-498-11	CONNECTOR, MEMORY STICK (MEMORY STICK SLOT)	
< DIODE >			
D001	8-719-073-01	DIODE MA111-(K8).SO	
D002	8-719-422-86	DIODE MA8082-L-TX	
D003	8-719-061-82	DIODE TLSU1002(TPX1,SONY)	
D004	8-719-073-01	DIODE MA111-(K8).SO (ACCESS)	
D007	8-719-073-01	DIODE MA111-(K8).SO	
D009	8-719-062-16	DIODE 01ZA8.2(TPL3)	
D010	8-719-073-01	DIODE MA111-(K8).SO	
D011	8-719-062-16	DIODE 01ZA8.2(TPL3)	
D012	8-719-422-86	DIODE MA8082-L-TX	
< RESISTOR >			
R001	1-216-819-11	METAL CHIP 680	5% 1/16W
R003	1-216-824-11	METAL CHIP 1.8K	5% 1/16W
R004	1-216-826-11	METAL CHIP 2.7K	5% 1/16W
R005	1-216-824-11	METAL CHIP 1.8K	5% 1/16W
R006	1-216-826-11	METAL CHIP 2.7K	5% 1/16W
R007	1-216-824-11	METAL CHIP 1.8K	5% 1/16W
R008	1-216-826-11	METAL CHIP 2.7K	5% 1/16W
R009	1-216-829-11	METAL CHIP 4.7K	5% 1/16W
R010	1-216-864-11	METAL CHIP 0	5% 1/16W
< SWITCH >			
S001	1-692-111-11	SWITCH, KEY BOARD (MENU, ▲)	
S002	1-692-111-11	SWITCH, KEY BOARD (◀)	
S003	1-692-111-11	SWITCH, KEY BOARD (●)	
S004	1-692-111-11	SWITCH, KEY BOARD (▼)	
S005	1-692-111-11	SWITCH, KEY BOARD (▶)	
S006	1-692-088-41	SWITCH, TACTILE (◀)	
S007	1-692-088-41	SWITCH, TACTILE (▶)	
S008	1-692-088-41	SWITCH, TACTILE (▶)	
S009	1-692-088-41	SWITCH, TACTILE (ROTATE)	
S010	1-692-088-41	SWITCH, TACTILE (DISPLAY)	
<hr/>			
*	A-7074-004-A	PS-423 BOARD, COMPLETE ***** (Ref.No. 1,000 Series)	
< CAPACITOR >			
C101	1-104-851-11	TANTAL. CHIP 10uF	20% 10V
C102	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C103	1-135-180-21	TANTALUM CHIP 3.3uF	20% 6.3V
C104	1-115-467-11	CERAMIC CHIP 0.22uF	10% 10V
C105	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V

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

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

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C106	1-104-851-11	TANTAL. CHIP	10uF	20%	10V			< SWITCH >			
C107	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V						
		< CONNECTOR >									
CN101	1-691-350-21	CONNECTOR, FFC/FPC (ZIF) 12P									
		< DIODE >									
D101	8-719-058-14	DIODE CL-220PG-C-TS (POWER)									
D102	8-719-057-82	DIODE TLN115A (TOUCHLESS SENSOR)									
D103	8-719-073-01	DIODE MA111-(K8).SO									
D104	8-719-062-16	DIODE 01ZA8.2(TPL3)									
D105	8-719-062-16	DIODE 01ZA8.2(TPL3)									
D106	8-719-073-01	DIODE MA111-(K8).SO									
D107	8-719-073-01	DIODE MA111-(K8).SO									
D108	8-719-061-82	DIODE TLSU1002(TPX1,SONY) (STANDBY)									
		< IC >									
IC101	8-759-338-95	IC NJM2903V(TE2)									
IC102	8-759-337-40	IC NJM2904V(TE2)									
IC103	8-759-338-95	IC NJM2903V(TE2)									
		< COIL >									
L101	1-414-754-11	INDUCTOR 10uH									
L102	1-414-754-11	INDUCTOR 10uH									
		< TRANSISTOR >									
Q101	8-729-037-52	TRANSISTOR	2SD2216J-QR(K8).SO								
Q102	8-729-822-05	TRANSISTOR	2SD1622-ST-TD								
Q103	8-729-049-61	TRANSISTOR	CPT-182S-C-TU-D (TOUCHLESS SENSOR)								
Q104	8-729-037-52	TRANSISTOR	2SD2216J-QR(K8).SO								
Q105	8-729-037-52	TRANSISTOR	2SD2216J-QR(K8).SO								
		< RESISTOR >									
R101	1-216-833-91	RES, CHIP	10K	5%	1/16W						
R102	1-216-833-91	RES, CHIP	10K	5%	1/16W						
R103	1-216-853-11	METAL CHIP	470K	5%	1/16W						
R104	1-216-845-11	METAL CHIP	100K	5%	1/16W						
R105	1-216-833-91	RES, CHIP	10K	5%	1/16W						
R106	1-216-845-11	METAL CHIP	100K	5%	1/16W						
R107	1-216-845-11	METAL CHIP	100K	5%	1/16W						
R108	1-216-845-11	METAL CHIP	100K	5%	1/16W						
R109	1-216-837-11	METAL CHIP	22K	5%	1/16W						
R113	1-216-841-11	METAL CHIP	47K	5%	1/16W						
R114	1-216-849-11	METAL CHIP	220K	5%	1/16W						
R115	1-216-849-11	METAL CHIP	220K	5%	1/16W						
R117	1-216-295-91	SHORT	0								
R118	1-216-829-11	METAL CHIP	4.7K	5%	1/16W						
R119	1-216-831-11	METAL CHIP	6.8K	5%	1/16W						
R123	1-216-804-11	METAL CHIP	39	5%	1/16W						
R124	1-216-295-91	SHORT	0								
R125	1-216-814-11	METAL CHIP	270	5%	1/16W						
R126	1-216-295-91	SHORT	0								
R127	1-216-820-11	METAL CHIP	820	5%	1/16W						
R128	1-216-821-11	METAL CHIP	1K	5%	1/16W						
R129	1-216-830-11	METAL CHIP	5.6K	5%	1/16W						
R130	1-216-833-91	RES, CHIP	10K	5%	1/16W						
R131	1-216-832-11	METAL CHIP	8.2K	5%	1/16W						
R132	1-216-295-91	SHORT	0								
R133	1-216-295-91	SHORT	0								
S101	1-692-088-41	SWITCH, TACTILE (BRIGHT +)									
S102	1-692-088-41	SWITCH, TACTILE (BRIGHT -)									
S103	1-692-088-41	SWITCH, TACTILE (POWER ON/OFF)									
		A-7094-496-A SY-55 BOARD, COMPLETE									

		(Ref.No. 2,000 Series)									
		< CAPACITOR >									
C001	1-113-985-11	TANTAL. CHIP	10uF	20%	20V						
C002	1-113-985-11	TANTAL. CHIP	10uF	20%	20V						
C003	1-113-985-11	TANTAL. CHIP	10uF	20%	20V						
C004	1-113-985-11	TANTAL. CHIP	10uF	20%	20V						
C005	1-164-218-11	CERAMIC CHIP	180PF	0.25PF	50V						
C006	1-107-826-91	CERAMIC CHIP	0.1uF	10%	16V						
C007	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V						
C008	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V						
C009	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V						
C011	1-107-826-91	CERAMIC CHIP	0.1uF	10%	16V						
C012	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V						
C013	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V						
C014	1-162-962-11	CERAMIC CHIP	470PF	10%	50V						
C015	1-162-962-11	CERAMIC CHIP	470PF	10%	50V						
C017	1-162-970-91	CERAMIC CHIP	10000PF	10%	16V						
C018	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V						
C019	1-162-962-11	CERAMIC CHIP	470PF	10%	50V						
C020	1-162-962-11	CERAMIC CHIP	470PF	10%	50V						
C023	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V						
C024	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V						
C025	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V						
C026	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V						
C027	1-115-566-11	CERAMIC CHIP	4.7uF	10%	10V						
C028	1-115-566-11	CERAMIC CHIP	4.7uF	10%	10V						
C029	1-164-506-11	CERAMIC CHIP	4.7uF		16V						
C030	1-115-566-11	CERAMIC CHIP	4.7uF	10%	10V						
C031	1-115-566-11	CERAMIC CHIP	4.7uF	10%	10V						
C032	1-115-566-11	CERAMIC CHIP	4.7uF	10%	10V						
C033	1-164-506-11	CERAMIC CHIP	4.7uF		16V						
C034	1-164-506-11	CERAMIC CHIP	4.7uF		16V						
C035	1-164-506-11	CERAMIC CHIP	4.7uF		16V						
C036	1-115-566-11	CERAMIC CHIP	4.7uF	10%	10V						
C037	1-115-566-11	CERAMIC CHIP	4.7uF	10%	10V						
C038	1-135-216-11	TANTALUM CHIP	10uF	20%	10V						
C039	1-104-913-11	TANTAL. CHIP	10uF	20%	16V						
C040	1-135-216-11	TANTALUM CHIP	10uF	20%	10V						
C042	1-135-216-11	TANTALUM CHIP	10uF	20%	10V						
C045	1-135-214-21	TANTAL. CHIP	4.7uF	20%	20V						
C046	1-104-913-11	TANTAL. CHIP	10uF	20%	16V						
C047	1-104-920-11	TANTAL. CHIP	4.7uF	20%	35V						
C048	1-135-216-11	TANTALUM CHIP	10uF	20%	10V						
C050	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V						
C051	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V						
C052	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V						
C053	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V						
C054	1-109-982-11	CERAMIC CHIP	1uF	10%	10V						
C055	1-104-913-11	TANTAL. CHIP	10uF	20%	16V						
C057	1-113-985-11	TANTAL. CHIP	10uF	20%	20V						
C058	1-104-913-11	TANTAL. CHIP	10uF	20%	16V						
C059	1-135-216-11	TANTALUM CHIP	10uF	20%	10V						

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Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C060	1-113-682-91	TANTALUM CHIP	33uF 20% 10V	C603	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
C061	1-135-259-11	TANTAL. CHIP	10uF 20% 6.3V	C604	1-107-826-91	CERAMIC CHIP	0.1uF 10% 16V
C201	1-135-259-11	TANTAL. CHIP	10uF 20% 6.3V	C605	1-135-177-21	TANTALUM CHIP	1uF 20% 20V
C202	1-104-852-11	TANTAL. CHIP	22uF 20% 6.3V	C606	1-162-968-11	CERAMIC CHIP	0.0047uF 10% 50V
C203	1-107-826-91	CERAMIC CHIP	0.1uF 10% 16V	C607	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C204	1-107-826-91	CERAMIC CHIP	0.1uF 10% 16V	C608	1-164-227-11	CERAMIC CHIP	0.022uF 10% 25V
C205	1-107-826-91	CERAMIC CHIP	0.1uF 10% 16V	C609	1-107-826-91	CERAMIC CHIP	0.1uF 10% 16V
C206	1-107-826-91	CERAMIC CHIP	0.1uF 10% 16V	C610	1-125-837-11	CERAMIC CHIP	1uF 10% 6.3V
C207	1-107-826-91	CERAMIC CHIP	0.1uF 10% 16V	C613	1-107-826-91	CERAMIC CHIP	0.1uF 10% 16V
C208	1-111-253-11	TANTAL. CHIP	100uF 20% 6.3V	C614	1-162-919-11	CERAMIC CHIP	22PF 5% 50V
C209	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	C615	1-107-826-91	CERAMIC CHIP	0.1uF 10% 16V
C210	1-107-826-91	CERAMIC CHIP	0.1uF 10% 16V	C617	1-107-826-91	CERAMIC CHIP	0.1uF 10% 16V
C211	1-164-227-11	CERAMIC CHIP	0.022uF 10% 25V	C701	1-125-837-91	CERAMIC CHIP	1uF 10% 6.3V
C212	1-107-826-91	CERAMIC CHIP	0.1uF 10% 16V	C702	1-109-982-11	CERAMIC CHIP	1uF 10% 10V
C213	1-107-826-91	CERAMIC CHIP	0.1uF 10% 16V	C703	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C214	1-107-826-91	CERAMIC CHIP	0.1uF 10% 16V	C704	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C215	1-107-826-91	CERAMIC CHIP	0.1uF 10% 16V	C705	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C216	1-107-826-91	CERAMIC CHIP	0.1uF 10% 16V	C706	1-125-837-91	CERAMIC CHIP	1uF 10% 6.3V
C217	1-107-826-91	CERAMIC CHIP	0.1uF 10% 16V	C707	1-135-259-11	TANTAL. CHIP	10uF 20% 6.3V
C218	1-107-826-91	CERAMIC CHIP	0.1uF 10% 16V	C708	1-135-259-11	TANTAL. CHIP	10uF 20% 6.3V
C219	1-107-826-91	CERAMIC CHIP	0.1uF 10% 16V	C709	1-113-619-11	CERAMIC CHIP	0.47uF 10% 6.3V
C220	1-107-826-91	CERAMIC CHIP	0.1uF 10% 16V	C710	1-117-919-11	TANTAL. CHIP	10uF 20% 6.3V
C221	1-107-826-91	CERAMIC CHIP	0.1uF 10% 16V	C711	1-113-619-11	CERAMIC CHIP	0.47uF 10% 6.3V
C225	1-107-826-91	CERAMIC CHIP	0.1uF 10% 16V	C713	1-117-919-11	TANTAL. CHIP	10uF 20% 6.3V
C226	1-119-750-11	TANTAL. CHIP	22uF 20% 6.3V	C714	1-117-919-11	TANTAL. CHIP	10uF 20% 6.3V
C227	1-107-826-91	CERAMIC CHIP	0.1uF 10% 16V	C715	1-109-982-11	CERAMIC CHIP	1uF 10% 10V
C301	1-125-837-91	CERAMIC CHIP	1uF 10% 6.3V	C716	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C302	1-164-227-11	CERAMIC CHIP	0.022uF 10% 25V	C717	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C303	1-162-962-11	CERAMIC CHIP	470PF 10% 50V	C718	1-107-823-11	CERAMIC CHIP	0.47uF 10% 16V
C304	1-162-962-11	CERAMIC CHIP	470PF 10% 50V	C720	1-117-919-11	TANTAL. CHIP	10uF 20% 6.3V
C305	1-162-916-11	CERAMIC CHIP	12PF 5% 50V	C721	1-107-823-11	CERAMIC CHIP	0.47uF 10% 16V
C306	1-162-916-11	CERAMIC CHIP	12PF 5% 50V	C722	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C307	1-125-837-91	CERAMIC CHIP	1uF 10% 6.3V	C723	1-119-751-11	TANTAL. CHIP	22uF 20% 16V
C308	1-125-837-91	CERAMIC CHIP	1uF 10% 6.3V	C724	1-113-619-11	CERAMIC CHIP	0.47uF 10% 10V
C309	1-125-837-91	CERAMIC CHIP	1uF 10% 6.3V	C725	1-125-837-91	CERAMIC CHIP	1uF 10% 6.3V
C310	1-107-826-91	CERAMIC CHIP	0.1uF 10% 16V	C805	1-135-259-11	TANTAL. CHIP	10uF 20% 6.3V
C311	1-125-837-91	CERAMIC CHIP	1uF 10% 6.3V	C806	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C312	1-104-851-11	TANTAL. CHIP	10uF 20% 10V	C807	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C313	1-107-826-91	CERAMIC CHIP	0.1uF 10% 16V	C808	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C401	1-107-826-91	CERAMIC CHIP	0.1uF 10% 16V	C809	1-104-912-11	TANTAL. CHIP	3.3uF 20% 6.3V
C402	1-107-826-91	CERAMIC CHIP	0.1uF 10% 16V	C810	1-162-969-11	CERAMIC CHIP	0.0068uF 10% 25V
C403	1-135-259-11	TANTAL. CHIP	10uF 20% 6.3V	C811	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C404	1-107-826-91	CERAMIC CHIP	0.1uF 10% 16V	C812	1-135-177-21	TANTALUM CHIP	1uF 20% 20V
C405	1-135-259-11	TANTAL. CHIP	10uF 20% 6.3V	C814	1-107-826-91	CERAMIC CHIP	0.1uF 10% 16V
C406	1-107-826-91	CERAMIC CHIP	0.1uF 10% 16V	C815	1-113-682-11	TANTAL. CHIP	33uF 20% 10V
C407	1-107-826-91	CERAMIC CHIP	0.1uF 10% 16V	C816	1-107-826-91	CERAMIC CHIP	0.1uF 10% 16V
C408	1-107-826-91	CERAMIC CHIP	0.1uF 10% 16V	C817	1-113-682-11	TANTAL. CHIP	33uF 20% 10V
C409	1-107-826-91	CERAMIC CHIP	0.1uF 10% 16V	C818	1-107-826-91	CERAMIC CHIP	0.1uF 10% 16V
C410	1-107-826-91	CERAMIC CHIP	0.1uF 10% 16V	C819	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C411	1-119-750-11	TANTAL. CHIP	22uF 20% 6.3V	C820	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C412	1-164-227-11	CERAMIC CHIP	0.022uF 10% 25V	C821	1-104-913-11	TANTAL. CHIP	10uF 20% 16V
C501	1-107-826-91	CERAMIC CHIP	0.1uF 10% 16V	C822	1-164-489-11	CERAMIC CHIP	0.22uF 10% 16V
C502	1-164-227-11	CERAMIC CHIP	0.022uF 10% 25V	C823	1-115-566-11	CERAMIC CHIP	4.7uF 10% 10V
C503	1-117-919-11	TANTAL. CHIP	10uF 20% 6.3V	C824	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C504	1-107-826-91	CERAMIC CHIP	0.1uF 10% 16V	C826	1-113-682-11	TANTAL. CHIP	33uF 20% 10V
C505	1-107-826-91	CERAMIC CHIP	0.1uF 10% 16V	C827	1-115-566-11	CERAMIC CHIP	4.7uF 10% 10V
C506	1-119-750-11	TANTAL. CHIP	22uF 20% 6.3V	C828	1-135-155-21	TANTALUM CHIP	4.7uF 10% 16V
C507	1-107-826-91	CERAMIC CHIP	0.1uF 10% 16V	C829	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C601	1-104-851-11	TANTAL. CHIP	10uF 20% 10V	C830	1-107-682-11	CERAMIC CHIP	1uF 10% 16V
C602	1-119-750-11	TANTAL. CHIP	22uF 20% 6.3V	C831	1-107-682-11	CERAMIC CHIP	1uF 10% 16V

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C832	1-107-682-11	CERAMIC CHIP	1uF 10% 16V	IC603	8-759-586-40	IC S579SGX50160MP1PZ-TEB	
C833	1-107-725-11	CERAMIC CHIP	0.1uF 10% 16V	IC604	8-759-445-94	IC AK6480AM-E2	
C834	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	IC605	8-759-538-14	IC S-3513BEFS-TB	
C836	1-104-913-11	TANTAL. CHIP	10uF 20% 16V	IC701	8-759-566-19	IC AK4518-VF-E2	
C837	1-104-913-11	TANTAL. CHIP	10uF 20% 16V	IC702	8-759-582-00	IC AN2904FHQ-EB	
C838	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	IC703	8-759-547-46	IC MSM9831-104MAZ060	
C839	1-113-992-11	TANTAL. CHIP	3.3uF 20% 35V	IC801	8-752-070-03	IC CXA1785AR-T4	
C840	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	IC802	8-759-427-85	IC MB88146APFV-G-BND-ER	
C841	1-107-826-91	CERAMIC CHIP	0.1uF 10% 16V	IC803	8-759-359-49	IC NJM3414AV(TE2)	
C842	1-135-213-21	TANTAL. CHIP	3.3uF 20% 25V			< COIL >	
		< CONNECTOR >					
CN001	1-784-210-21	CONNECTOR 7P		L001	1-416-344-11	INDUCTOR 10uH	
* CN002	1-764-519-11	CONNECTOR, FFC/FPC (ZIF) 10P		L002	1-416-344-11	INDUCTOR 10uH	
* CN601	1-764-521-11	CONNECTOR, FFC/FPC (ZIF) 12P		L003	1-416-344-11	INDUCTOR 10uH	
CN602	1-793-027-21	CONNECTOR 14P		L004	1-416-511-11	INDUCTOR 47uH	
CN603	1-779-884-11	CONNECTOR 4P		L005	1-416-345-11	INDUCTOR 22uH	
CN701	1-784-650-21	CONNECTOR 2P		L006	1-416-345-11	INDUCTOR 22uH	
CN801	1-750-361-21	CONNECTOR, FFC/FPC (ZIF) 30P		L007	1-414-396-21	INDUCTOR 4.7uH	
CN802	1-764-526-11	CONNECTOR, FFC/FPC 18P		L008	1-414-404-11	INDUCTOR 100uH	
		< DIODE >		L009	1-414-406-11	INDUCTOR 220uH	
D001	8-719-073-01	DIODE MA111-(K8).S0		L010	1-414-404-11	INDUCTOR 100uH	
D003	8-719-801-48	DIODE 1SS193-TE85L		L011	1-414-396-21	INDUCTOR 4.7uH	
D005	8-719-801-48	DIODE 1SS193-TE85L		L012	1-414-396-21	INDUCTOR 4.7uH	
D006	8-719-801-48	DIODE 1SS193-TE85L		L013	1-414-396-21	INDUCTOR 4.7uH	
D401	8-719-073-01	DIODE MA111-(K8).S0		L014	1-414-396-21	INDUCTOR 4.7uH	
D601	8-719-056-48	DIODE 1SS388(TPL3)		L017	1-414-396-21	INDUCTOR 4.7uH	
D602	8-719-056-48	DIODE 1SS388(TPL3)		L018	1-414-396-21	INDUCTOR 4.7uH	
D801	8-719-073-28	DIODE MA729-(K8).S0		L201	1-414-754-11	INDUCTOR 10uH	
		< FERRITE BEAD >		L202	1-414-754-11	INDUCTOR 10uH	
FB201	1-414-228-11	INDUCTOR CHIP 0UH		L203	1-410-389-11	INDUCTOR 47uH	
FB202	1-414-228-11	INDUCTOR CHIP 0UH		L207	1-414-754-11	INDUCTOR 10uH	
FB203	1-500-282-11	INDUCTOR CHIP 0UH		L301	1-414-398-11	INDUCTOR 10uH	
FB301	1-216-864-11	METAL CHIP 0 5% 1/16W		L401	1-414-398-11	INDUCTOR 10uH	
FB401	1-414-228-11	INDUCTOR CHIP 0UH		L501	1-414-771-91	INDUCTOR CHIP 10uH	
FB402	1-414-228-11	INDUCTOR CHIP 0UH		L601	1-414-754-11	INDUCTOR 10uH	
FB403	1-414-228-11	INDUCTOR CHIP 0UH		L701	1-414-754-11	INDUCTOR 10uH	
FB501	1-414-228-11	INDUCTOR CHIP 0UH		L702	1-414-406-11	INDUCTOR 220uH	
FB601	1-500-282-11	INDUCTOR CHIP 0UH		L703	1-414-754-11	INDUCTOR 10uH	
FB701	1-414-228-11	INDUCTOR CHIP 0UH		L704	1-414-754-11	INDUCTOR 10uH	
		< IC >		L705	1-414-754-11	INDUCTOR 10uH	
IC001	8-759-060-94	IC MB3785APFV-G-BND-ER		L803	1-414-755-11	INDUCTOR 22uH	
IC002	8-759-281-13	IC S-81250SG-QD-T1		L804	1-414-757-11	INDUCTOR 100uH	
IC003	8-759-442-54	IC RH5RL50AA-T1		L806	1-414-756-11	INDUCTOR 47uH	
IC201	8-759-586-38	IC MB91002LGA-G		L807	1-414-754-11	INDUCTOR 10uH	
IC202	8-759-586-08	IC MB81F641642C-103LFN-ER		L808	1-414-754-11	INDUCTOR 10uH	
IC301	8-759-585-34	IC HD6417612RBP		L809	1-414-754-11	INDUCTOR 10uH	
IC302	8-759-445-94	IC AK6480AM-E2		L810	1-414-757-11	INDUCTOR 100uH	
IC401	8-759-584-32	IC MB86189PFV-G-BND-ER		L811	1-414-756-11	INDUCTOR 47uH	
IC402	8-759-271-88	IC TC7SHU04FU-TE85R				< TRANSISTOR >	
IC403	8-759-271-86	IC TC7SH04FU-TE85R		Q001	8-729-804-41	TRANSISTOR 2SB1122-ST-TD	
IC405	8-759-586-09	IC MBM29LV800BA-10PFTN-FK-ER		Q002	8-729-047-74	TRANSISTOR CPH5701-TL	
IC406	8-759-567-37	IC MB81F161622B-80FN		Q003	8-729-047-74	TRANSISTOR CPH5701-TL	
IC503	8-759-426-25	IC MB88346LPFV-G-BND-ER		Q004	8-729-047-74	TRANSISTOR CPH5701-TL	
IC504	8-752-398-19	IC CXD3147R-T6		Q005	8-729-037-74	TRANSISTOR UN9213J-(K8).SO	
IC601	8-759-525-53	IC RN5RZ31BA-TL		Q006	8-729-037-74	TRANSISTOR UN9213J-(K8).SO	
IC602	8-759-525-51	IC S-80827HNNP-A9A-T2		Q007	8-729-042-58	TRANSISTOR UN9111J-(K8).SO	
				Q008	8-729-037-53	TRANSISTOR 2SB1462J-QR(K8).SO	
				Q009	8-729-041-23	TRANSISTOR NDS356AP	
				Q010	8-729-037-52	TRANSISTOR 2SD2216J-QR(K8).SO	

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
Q011	8-729-037-53	TRANSISTOR	2SB1462J-QR(K8).SO	R035	1-216-817-11	METAL CHIP	470 5% 1/16W
Q012	8-729-037-52	TRANSISTOR	2SD2216J-QR(K8).SO	R036	1-216-817-11	METAL CHIP	470 5% 1/16W
Q013	8-729-042-58	TRANSISTOR	UN9111J-(K8).SO	R037	1-216-841-11	METAL CHIP	47K 5% 1/16W
Q014	8-729-037-74	TRANSISTOR	UN9213J-(K8).SO	R039	1-216-864-11	METAL CHIP	0 5% 1/16W
Q017	8-729-037-52	TRANSISTOR	2SD2216J-QR(K8).SO				
Q018	8-729-037-52	TRANSISTOR	2SD2216J-QR(K8).SO	R040	1-216-864-11	METAL CHIP	0 5% 1/16W
Q019	8-729-043-94	TRANSISTOR	CPH3106-PM-TL	R042	1-216-802-11	RES, CHIP	27 5% 1/16W
Q021	8-729-037-52	TRANSISTOR	2SD2216J-QR(K8).SO	R044	1-216-842-11	METAL CHIP	56K 5% 1/16W
Q201	8-729-037-52	TRANSISTOR	2SD2216J-QR(K8).SO	R045	1-216-843-11	METAL CHIP	68K 5% 1/16W
Q202	8-729-037-52	TRANSISTOR	2SD2216J-QR(K8).SO	R047	1-216-864-11	METAL CHIP	0 5% 1/16W
Q203	8-729-037-52	TRANSISTOR	2SD2216J-QR(K8).SO	R049	1-216-864-11	METAL CHIP	0 5% 1/16W
Q204	8-729-037-52	TRANSISTOR	2SD2216J-QR(K8).SO	R050	1-218-863-11	RES, CHIP	4.7K 0.50% 1/16W
Q205	8-729-037-52	TRANSISTOR	2SD2216J-QR(K8).SO	R051	1-218-877-11	RES, CHIP	18K 0.50% 1/16W
Q301	8-729-037-74	TRANSISTOR	UN9213J-(K8).SO	R052	1-218-869-11	RES, CHIP	8.2K 0.50% 1/16W
Q401	8-729-037-74	TRANSISTOR	UN9213J-(K8).SO	R053	1-216-809-11	METAL CHIP	100 5% 1/16W
Q402	8-729-032-00	TRANSISTOR	2SJ381-TD	R054	1-216-841-11	METAL CHIP	47K 5% 1/16W
Q403	8-729-037-61	TRANSISTOR	UN9113J-(K8).SO	R055	1-216-841-11	METAL CHIP	47K 5% 1/16W
Q404	8-729-037-74	TRANSISTOR	UN9213J-(K8).SO	R056	1-216-841-11	METAL CHIP	47K 5% 1/16W
Q601	8-729-037-52	TRANSISTOR	2SD2216J-QR(K8).SO	R057	1-216-295-91	SHORT	0
Q602	8-729-037-74	TRANSISTOR	UN9213J-(K8).SO	R058	1-216-857-11	METAL CHIP	1M 5% 1/16W
Q603	8-729-037-74	TRANSISTOR	UN9213J-(K8).SO	R059	1-216-845-11	METAL CHIP	100K 5% 1/16W
Q604	8-729-037-74	TRANSISTOR	UN9213J-(K8).SO	R061	1-216-833-91	RES, CHIP	10K 5% 1/16W
Q701	8-729-037-52	TRANSISTOR	2SD2216J-QR(K8).SO	R062	1-218-855-11	RES, CHIP	2.2K 0.50% 1/16W
Q702	8-729-230-60	TRANSISTOR	2SA1586YG-TE85L	R063	1-218-895-11	RES, CHIP	100K 0.50% 1/16W
Q703	8-729-024-39	TRANSISTOR	2SD1511-R/S(TX)	R064	1-218-885-11	RES, CHIP	39K 0.50% 1/16W
Q704	8-729-037-52	TRANSISTOR	2SD2216J-QR(K8).SO	R065	1-218-885-11	RES, CHIP	39K 0.50% 1/16W
Q802	8-729-037-53	TRANSISTOR	2SB1462J-QR(K8).SO	R066	1-216-853-11	METAL CHIP	470K 5% 1/16W
		< RESISTOR >		R067	1-216-841-11	METAL CHIP	47K 5% 1/16W
R001	1-216-295-91	SHORT	0	R068	1-216-805-11	METAL CHIP	47 5% 1/16W
R004	1-216-864-11	METAL CHIP	0 5% 1/16W	R072	1-216-295-91	SHORT	0
R005	1-218-879-11	RES, CHIP	22K 0.50% 1/16W	R075	1-216-295-91	SHORT	0
R006	1-218-869-11	RES, CHIP	8.2K 0.50% 1/16W	R076	1-216-295-91	SHORT	0
R007	1-218-871-11	RES, CHIP	10K 0.50% 1/16W	R078	1-216-296-91	SHORT	0
R008	1-216-850-11	METAL CHIP	270K 5% 1/16W	R079	1-216-296-91	SHORT	0
R010	1-218-865-11	RES, CHIP	5.6K 0.50% 1/16W	R080	1-216-296-91	SHORT	0
R011	1-216-847-11	METAL CHIP	150K 5% 1/16W	R081	1-216-296-91	SHORT	0
R012	1-216-833-91	RES, CHIP	10K 5% 1/16W	R083	1-216-296-91	SHORT	0
R013	1-218-871-11	RES, CHIP	10K 0.50% 1/16W	R084	1-216-296-91	SHORT	0
R014	1-218-831-11	RES, CHIP	220 0.50% 1/16W	R085	1-216-296-91	SHORT	0
R015	1-218-871-11	RES, CHIP	10K 0.50% 1/16W	R087	1-216-296-91	SHORT	0
R016	1-216-833-91	RES, CHIP	10K 5% 1/16W	R090	1-216-837-11	METAL CHIP	22K 5% 1/16W
R017	1-216-829-11	METAL CHIP	4.7K 5% 1/16W	R091	1-216-854-11	METAL CHIP	560K 5% 1/16W
R018	1-216-840-11	METAL CHIP	39K 5% 1/16W	R092	1-216-845-11	METAL CHIP	100K 5% 1/16W
R019	1-216-838-11	METAL CHIP	27K 5% 1/16W	R093	1-216-823-11	METAL CHIP	1.5K 5% 1/16W
R020	1-216-825-11	METAL CHIP	2.2K 5% 1/16W	R095	1-216-864-11	METAL CHIP	0 5% 1/16W
R021	1-216-841-11	METAL CHIP	47K 5% 1/16W	R097	1-216-864-11	METAL CHIP	0 5% 1/16W
R022	1-218-891-11	RES, CHIP	68K 0.50% 1/16W	R099	1-216-864-11	METAL CHIP	0 5% 1/16W
R023	1-216-829-11	METAL CHIP	4.7K 5% 1/16W	R101	1-216-864-11	METAL CHIP	0 5% 1/16W
R024	1-216-821-11	METAL CHIP	1K 5% 1/16W	R102	1-216-833-91	RES, CHIP	10K 5% 1/16W
R025	1-216-821-11	METAL CHIP	1K 5% 1/16W	R103	1-216-833-91	RES, CHIP	10K 5% 1/16W
R026	1-216-821-11	METAL CHIP	1K 5% 1/16W	R201	1-216-864-11	METAL CHIP	0 5% 1/16W
R027	1-218-855-11	RES, CHIP	2.2K 0.50% 1/16W	R202	1-216-864-11	METAL CHIP	0 5% 1/16W
R028	1-218-875-11	RES, CHIP	15K 0.50% 1/16W	R203	1-216-864-11	METAL CHIP	0 5% 1/16W
R029	1-218-863-11	RES, CHIP	4.7K 0.50% 1/16W	R204	1-216-864-11	METAL CHIP	0 5% 1/16W
R030	1-218-855-11	RES, CHIP	2.2K 0.50% 1/16W	R205	1-216-864-11	METAL CHIP	0 5% 1/16W
R031	1-218-875-11	RES, CHIP	15K 0.50% 1/16W	R206	1-216-864-11	METAL CHIP	0 5% 1/16W
R032	1-218-863-11	RES, CHIP	4.7K 0.50% 1/16W	R208	1-216-864-11	METAL CHIP	0 5% 1/16W
R033	1-216-817-11	METAL CHIP	470 5% 1/16W	R210	1-216-864-11	METAL CHIP	0 5% 1/16W
R034	1-216-819-11	METAL CHIP	680 5% 1/16W	R211	1-216-864-11	METAL CHIP	0 5% 1/16W
				R212	1-216-864-11	METAL CHIP	0 5% 1/16W
				R213	1-216-864-11	METAL CHIP	0 5% 1/16W

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R214	1-216-864-11	METAL CHIP	0	5%	1/16W	R422	1-216-864-11	METAL CHIP	0	5%	1/16W
R217	1-216-821-11	METAL CHIP	1K	5%	1/16W	R423	1-216-864-11	METAL CHIP	0	5%	1/16W
R218	1-218-827-11	RES, CHIP	150	0.50%	1/16W	R424	1-216-864-11	METAL CHIP	0	5%	1/16W
R219	1-216-841-11	METAL CHIP	47K	5%	1/16W	R425	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R221	1-218-827-11	RES, CHIP	150	0.50%	1/16W	R426	1-216-853-11	METAL CHIP	470K	5%	1/16W
R222	1-218-827-11	RES, CHIP	150	0.50%	1/16W	R501	1-216-857-11	METAL CHIP	1M	5%	1/16W
R223	1-218-857-11	RES, CHIP	2.7K	0.50%	1/16W	R503	1-216-864-11	METAL CHIP	0	5%	1/16W
R224	1-216-864-11	METAL CHIP	0	5%	1/16W	R504	1-216-821-11	METAL CHIP	1K	5%	1/16W
R225	1-216-821-11	METAL CHIP	1K	5%	1/16W	R505	1-216-864-11	METAL CHIP	0	5%	1/16W
R226	1-216-864-11	METAL CHIP	0	5%	1/16W	R510	1-216-864-11	METAL CHIP	0	5%	1/16W
R227	1-216-864-11	METAL CHIP	0	5%	1/16W	R511	1-216-864-11	METAL CHIP	0	5%	1/16W
R228	1-216-821-11	METAL CHIP	1K	5%	1/16W	R512	1-216-864-11	METAL CHIP	0	5%	1/16W
R229	1-216-821-11	METAL CHIP	1K	5%	1/16W	R513	1-216-864-11	METAL CHIP	0	5%	1/16W
R233	1-216-809-11	METAL CHIP	100	5%	1/16W	R514	1-216-864-11	METAL CHIP	0	5%	1/16W
R301	1-216-864-11	METAL CHIP	0	5%	1/16W	R515	1-216-864-11	METAL CHIP	0	5%	1/16W
R302	1-216-841-11	METAL CHIP	47K	5%	1/16W	R601	1-216-864-11	METAL CHIP	0	5%	1/16W
R304	1-216-821-11	METAL CHIP	1K	5%	1/16W	R602	1-216-864-11	METAL CHIP	0	5%	1/16W
R305	1-216-864-11	METAL CHIP	0	5%	1/16W	R603	1-216-864-11	METAL CHIP	0	5%	1/16W
R306	1-216-864-11	METAL CHIP	0	5%	1/16W	R604	1-216-864-11	METAL CHIP	0	5%	1/16W
R307	1-216-841-11	METAL CHIP	47K	5%	1/16W	R605	1-216-864-11	METAL CHIP	0	5%	1/16W
R308	1-216-841-11	METAL CHIP	47K	5%	1/16W	R607	1-216-864-11	METAL CHIP	0	5%	1/16W
R309	1-216-841-11	METAL CHIP	47K	5%	1/16W	R608	1-216-864-11	METAL CHIP	0	5%	1/16W
R310	1-216-841-11	METAL CHIP	47K	5%	1/16W	R609	1-216-864-11	METAL CHIP	0	5%	1/16W
R311	1-216-833-91	RES, CHIP	10K	5%	1/16W	R610	1-216-864-11	METAL CHIP	0	5%	1/16W
R312	1-216-864-11	METAL CHIP	0	5%	1/16W	R612	1-216-295-91	SHORT	0		
R313	1-216-864-11	METAL CHIP	0	5%	1/16W	R613	1-216-295-91	SHORT	0		
R314	1-216-841-11	METAL CHIP	47K	5%	1/16W	R614	1-216-864-11	METAL CHIP	0	5%	1/16W
R315	1-216-841-11	METAL CHIP	47K	5%	1/16W	R615	1-216-864-11	METAL CHIP	0	5%	1/16W
R316	1-216-864-11	METAL CHIP	0	5%	1/16W	R616	1-216-864-11	METAL CHIP	0	5%	1/16W
R317	1-216-864-11	METAL CHIP	0	5%	1/16W	R617	1-216-809-11	METAL CHIP	100	5%	1/16W
R318	1-216-841-11	METAL CHIP	47K	5%	1/16W	R618	1-216-864-11	METAL CHIP	0	5%	1/16W
R319	1-216-841-11	METAL CHIP	47K	5%	1/16W	R619	1-216-809-11	METAL CHIP	100	5%	1/16W
R320	1-216-841-11	METAL CHIP	47K	5%	1/16W	R620	1-216-864-11	METAL CHIP	0	5%	1/16W
R321	1-216-841-11	METAL CHIP	47K	5%	1/16W	R621	1-216-864-11	METAL CHIP	0	5%	1/16W
R322	1-216-841-11	METAL CHIP	47K	5%	1/16W	R622	1-216-864-11	METAL CHIP	0	5%	1/16W
R323	1-216-853-11	METAL CHIP	470K	5%	1/16W	R623	1-216-864-11	METAL CHIP	0	5%	1/16W
R324	1-216-845-11	METAL CHIP	100K	5%	1/16W	R624	1-216-864-11	METAL CHIP	0	5%	1/16W
R325	1-216-841-11	METAL CHIP	47K	5%	1/16W	R625	1-216-864-11	METAL CHIP	0	5%	1/16W
R326	1-216-841-11	METAL CHIP	47K	5%	1/16W	R626	1-216-853-11	METAL CHIP	470K	5%	1/16W
R401	1-216-797-11	METAL CHIP	10	5%	1/16W	R627	1-216-864-11	METAL CHIP	0	5%	1/16W
R402	1-216-797-11	METAL CHIP	10	5%	1/16W	R628	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R403	1-216-797-11	METAL CHIP	10	5%	1/16W	R629	1-216-845-11	METAL CHIP	100K	5%	1/16W
R404	1-216-797-11	METAL CHIP	10	5%	1/16W	R630	1-216-821-11	METAL CHIP	1K	5%	1/16W
R405	1-216-797-11	METAL CHIP	10	5%	1/16W	R631	1-216-853-11	METAL CHIP	470K	5%	1/16W
R406	1-216-797-11	METAL CHIP	10	5%	1/16W	R632	1-216-853-11	METAL CHIP	470K	5%	1/16W
R407	1-216-797-11	METAL CHIP	10	5%	1/16W	R633	1-216-853-11	METAL CHIP	470K	5%	1/16W
R408	1-216-857-11	METAL CHIP	1M	5%	1/16W	R634	1-216-853-11	METAL CHIP	470K	5%	1/16W
R409	1-216-864-11	METAL CHIP	0	5%	1/16W	R635	1-216-821-11	METAL CHIP	1K	5%	1/16W
R410	1-216-797-11	METAL CHIP	10	5%	1/16W	R636	1-216-821-11	METAL CHIP	1K	5%	1/16W
R411	1-216-857-11	METAL CHIP	1M	5%	1/16W	R637	1-216-845-11	METAL CHIP	100K	5%	1/16W
R412	1-216-821-11	METAL CHIP	1K	5%	1/16W	R638	1-216-845-11	METAL CHIP	100K	5%	1/16W
R413	1-216-864-11	METAL CHIP	0	5%	1/16W	R639	1-216-845-11	METAL CHIP	100K	5%	1/16W
R414	1-216-864-11	METAL CHIP	0	5%	1/16W	R640	1-216-833-91	RES, CHIP	10K	5%	1/16W
R415	1-216-864-11	METAL CHIP	0	5%	1/16W	R642	1-216-853-11	METAL CHIP	470K	5%	1/16W
R416	1-216-864-11	METAL CHIP	0	5%	1/16W	R643	1-216-853-11	METAL CHIP	470K	5%	1/16W
R417	1-216-864-11	METAL CHIP	0	5%	1/16W	R644	1-216-864-11	METAL CHIP	0	5%	1/16W
R418	1-216-864-11	METAL CHIP	0	5%	1/16W	R645	1-216-821-11	METAL CHIP	1K	5%	1/16W
R419	1-216-864-11	METAL CHIP	0	5%	1/16W	R646	1-216-841-11	METAL CHIP	47K	5%	1/16W
R420	1-216-864-11	METAL CHIP	0	5%	1/16W	R647	1-216-833-91	RES, CHIP	10K	5%	1/16W
R421	1-216-864-11	METAL CHIP	0	5%	1/16W	R648	1-216-821-11	METAL CHIP	1K	5%	1/16W

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Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R649	1-216-833-91	RES, CHIP	10K	5%	1/16W	R833	1-216-841-11	METAL CHIP	47K	5%	1/16W
R650	1-216-821-11	METAL CHIP	1K	5%	1/16W	R834	1-216-842-11	METAL CHIP	56K	5%	1/16W
R651	1-216-833-91	RES, CHIP	10K	5%	1/16W	R835	1-216-864-11	METAL CHIP	0	5%	1/16W
R652	1-216-821-11	METAL CHIP	1K	5%	1/16W	R836	1-218-891-11	RES, CHIP	68K	0.50%	1/16W
R653	1-216-853-11	METAL CHIP	470K	5%	1/16W	R837	1-218-883-11	RES, CHIP	33K	0.50%	1/16W
R654	1-216-864-11	METAL CHIP	0	5%	1/16W	R839	1-218-879-11	RES, CHIP	22K	0.50%	1/16W
R655	1-216-797-11	METAL CHIP	10	5%	1/16W	R840	1-218-879-11	RES, CHIP	22K	0.50%	1/16W
R657	1-216-857-11	METAL CHIP	1M	5%	1/16W	R841	1-216-837-11	METAL CHIP	22K	5%	1/16W
R658	1-218-907-11	RES, CHIP	330K	0.50%	1/16W	R842	1-216-841-11	METAL CHIP	47K	5%	1/16W
R659	1-216-857-11	METAL CHIP	1M	5%	1/16W	R843	1-216-841-11	METAL CHIP	47K	5%	1/16W
R660	1-216-845-11	METAL CHIP	100K	5%	1/16W	R844	1-216-837-11	METAL CHIP	22K	5%	1/16W
R661	1-216-853-11	METAL CHIP	470K	5%	1/16W	R845	1-216-841-11	METAL CHIP	47K	5%	1/16W
R662	1-216-845-11	METAL CHIP	100K	5%	1/16W	R846	1-216-841-11	METAL CHIP	47K	5%	1/16W
R663	1-216-857-11	METAL CHIP	1M	5%	1/16W	R847	1-216-845-11	METAL CHIP	100K	5%	1/16W
R664	1-216-845-11	METAL CHIP	100K	5%	1/16W	R848	1-216-845-11	METAL CHIP	100K	5%	1/16W
R665	1-216-845-11	METAL CHIP	100K	5%	1/16W	R849	1-216-839-11	METAL CHIP	33K	5%	1/16W
R666	1-216-833-91	RES, CHIP	10K	5%	1/16W	R850	1-216-845-11	METAL CHIP	100K	5%	1/16W
R667	1-216-814-11	METAL CHIP	270	5%	1/16W	R852	1-218-887-11	RES, CHIP	47K	0.50%	1/16W
R668	1-216-864-11	METAL CHIP	0	5%	1/16W	R853	1-218-885-11	RES, CHIP	39K	0.50%	1/16W
R669	1-216-296-91	SHORT	0			R854	1-218-855-11	RES, CHIP	2.2K	0.50%	1/16W
R670	1-216-857-11	METAL CHIP	1M	5%	1/16W	R855	1-218-877-11	RES, CHIP	18K	0.50%	1/16W
R673	1-216-296-91	SHORT	0			R856	1-218-881-11	RES, CHIP	27K	0.50%	1/16W
R674	1-216-296-91	SHORT	0			R859	1-216-864-11	METAL CHIP	0	5%	1/16W
R675	1-216-296-91	SHORT	0			R860	1-216-864-11	METAL CHIP	0	5%	1/16W
R676	1-216-833-91	RES, CHIP	10K	5%	1/16W	R861	1-216-805-11	METAL CHIP	47	5%	1/16W
R677	1-216-853-11	METAL CHIP	470K	5%	1/16W	R862	1-216-805-11	METAL CHIP	47	5%	1/16W
R678	1-216-864-11	METAL CHIP	0	5%	1/16W	R863	1-216-805-11	METAL CHIP	47	5%	1/16W
R679	1-216-841-11	METAL CHIP	47K	5%	1/16W	R864	1-216-864-11	METAL CHIP	0	5%	1/16W
R680	1-216-833-91	RES, CHIP	10K	5%	1/16W	R866	1-216-864-11	METAL CHIP	0	5%	1/16W
R681	1-216-840-11	METAL CHIP	39K	5%	1/16W	R868	1-216-864-11	METAL CHIP	0	5%	1/16W
R682	1-216-831-11	METAL CHIP	6.8K	5%	1/16W	R871	1-216-864-11	METAL CHIP	0	5%	1/16W
R683	1-216-853-11	METAL CHIP	470K	5%	1/16W	R873	1-216-864-11	METAL CHIP	0	5%	1/16W
R684	1-216-853-11	METAL CHIP	470K	5%	1/16W	R875	1-216-864-11	METAL CHIP	0	5%	1/16W
R685	1-216-864-11	METAL CHIP	0	5%	1/16W	R876	1-216-864-11	METAL CHIP	0	5%	1/16W
R686	1-216-821-11	METAL CHIP	1K	5%	1/16W	R878	1-216-864-11	METAL CHIP	0	5%	1/16W
R701	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	R879	1-216-864-11	METAL CHIP	0	5%	1/16W
R702	1-216-837-11	METAL CHIP	22K	5%	1/16W	R880	1-216-864-11	METAL CHIP	0	5%	1/16W
R703	1-216-841-11	METAL CHIP	47K	5%	1/16W	R881	1-216-864-11	METAL CHIP	0	5%	1/16W
R704	1-216-847-11	METAL CHIP	150K	5%	1/16W	R882	1-216-864-11	METAL CHIP	0	5%	1/16W
R705	1-216-836-11	METAL CHIP	18K	5%	1/16W	R884	1-216-864-11	METAL CHIP	0	5%	1/16W
R708	1-216-817-11	METAL CHIP	470	5%	1/16W	R885	1-216-864-11	METAL CHIP	0	5%	1/16W
R709	1-216-821-11	METAL CHIP	1K	5%	1/16W	R887	1-216-864-11	METAL CHIP	0	5%	1/16W
R808	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	R890	1-216-864-11	METAL CHIP	0	5%	1/16W
R809	1-216-838-11	METAL CHIP	27K	5%	1/16W	R891	1-216-864-11	METAL CHIP	0	5%	1/16W
R810	1-216-835-11	METAL CHIP	15K	5%	1/16W	R893	1-216-864-11	METAL CHIP	0	5%	1/16W
R811	1-216-843-11	METAL CHIP	68K	5%	1/16W			< SWITCH >			
R813	1-216-864-11	METAL CHIP	0	5%	1/16W						
R814	1-216-864-11	METAL CHIP	0	5%	1/16W						
R815	1-216-864-11	METAL CHIP	0	5%	1/16W	S601	1-571-506-41	SWITCH, SLIDE (SLEEP)			
R818	1-216-838-11	METAL CHIP	27K	5%	1/16W			< SENSOR >			
R819	1-218-889-11	RES, CHIP	56K	0.50%	1/16W						
R821	1-218-887-11	RES, CHIP	47K	0.50%	1/16W	SE601	1-771-701-21	SWITCH, SLANT (VERTICAL SENSOR)			
R822	1-216-851-11	METAL CHIP	330K	5%	1/16W			< TRANSFORMER >			
R823	1-218-877-11	RES, CHIP	18K	0.50%	1/16W						
R825	1-216-821-11	METAL CHIP	1K	5%	1/16W	T001	1-431-549-11	TRANSFORMER, DC-DC CONVERTER			
R826	1-216-821-11	METAL CHIP	1K	5%	1/16W			< VIBRATOR >			
R828	1-216-837-11	METAL CHIP	22K	5%	1/16W						
R830	1-216-839-11	METAL CHIP	33K	5%	1/16W	X201	1-781-412-21	OSCILLATOR, CRYSTAL (24.54MHZ)			
R831	1-216-841-11	METAL CHIP	47K	5%	1/16W	X301	1-781-413-21	VIBRATOR, CRYSTAL (12.9024MHZ)			
R832	1-216-841-11	METAL CHIP	47K	5%	1/16W	X401	1-767-989-21	VIBRATOR, CERAMIC (14.318MHZ)			

Ref. No.	Part No.	Description	Remark
X501	1-781-160-21	VIBRATOR, CERAMIC (16.384MHz)	
X601	1-767-450-11	VIBRATOR, CERAMIC (20MHz)	
X602	1-760-458-21	VIBRATOR, CRYSTAL (32.768kHz)	

MISCELLANEOUS

△8	1-959-825-11	HARNESS (EP-54)
9	1-673-923-11	FP-113 FLEXIBLE BOARD
54	1-959-714-11	HARNESS (FF-198)
57	1-959-713-11	HARNESS (FF-197)
64	1-959-712-11	HARNESS (FF-196)
65	1-790-730-11	CABLE, FLEXIBLE FLAT (FFC-278)
66	1-790-721-11	CABLE, FLEXIBLE FLAT (FFC-279)
67	1-959-824-11	HARNESS (FF-200)
SP901	1-505-278-11	SPEAKER (DIA 2.3cm)
△LCD901	1-801-904-24	MODULE, CRYSTAL INDICATION

ACCESSORIES

△	1-475-822-22	ADAPTOR, AC (AC-PLM3)
△	1-569-008-21	ADAPTOR, CONVERSION 2P (E)
△	1-575-131-11	CORD, POWER (AEP, E)
△	1-696-819-11	CORD, POWER (Australian)
△	1-769-608-11	CORD, POWER (AEP, UK, E, Hong Kong)
△	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (UK, Hong Kong)
△	1-790-107-22	CORD, POWER (US, Canadian)
	3-056-065-11	MANUAL, INSTRUCTION (ITALIAN) (AEP)
	3-056-065-21	MANUAL, INSTRUCTION (GERMAN) (AEP, E)
	3-056-065-31	MANUAL, INSTRUCTION (SWEDISH) (AEP)
	3-056-065-41	MANUAL, INSTRUCTION (RUSSIAN) (AEP, E)
	3-056-065-51	MANUAL, INSTRUCTION (KOREAN) (E)
	3-866-612-11	MANUAL, INSTRUCTION (ENGLISH, SPANISH) (UK)
	3-866-612-21	MANUAL, INSTRUCTION (GERMAN, FRENCH) (Canadian, AEP, E)
	3-866-612-31	MANUAL, INSTRUCTION (ITALIAN, DUTCH) (AEP)
	3-866-612-41	MANUAL, INSTRUCTION (PORTUGUESE, RUSSIAN) (AEP, E)
	3-866-612-51	MANUAL, INSTRUCTION (CHINESE) (E, Hong Kong)
	3-866-612-61	MANUAL, INSTRUCTION (ARABIC, KOREAN) (E)
	3-866-612-71	MANUAL, INSTRUCTION (SWEDISH) (AEP, E)
	X-3949-793-1	SCREW ASSY, ORNAMENTAL PLATE

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

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

