

BDP-BX1/S350

RMT-B102A/B102P/B103A

SERVICE MANUAL



Ver. 1.2 2008.09



Photo: BDP-S350

US Model
Canadian Model
BDP-BX1/S350
AEP Model
UK Model
E Model
Australian Model
Chinese Model
Russian Model
Hong Kong Model
Taiwan Model
Korea Model
Thai Model
BDP-S350

SPECIFICATIONS

System

Laser: Semiconductor laser

Inputs and outputs

(Jack name:

Jack type/Output level/Load impedance)

LINE OUT R-AUDIO-L:

Phono jack/2 Vrms/10 kilohms

DIGITAL OUT (OPTICAL):

Optical output jack/-18 dBm
(wave length 660 nm)

DIGITAL OUT (COAXIAL):

Phono jack/0.5 Vp-p/75 ohms

HDMI OUT:

HDMI 19-pin standard connector

COMPONENT VIDEO OUT

(Y, Pb, Pr) (US, Canadian):

Phono jack/Y: 1.0 Vp-p/
Pb, Pr: 0.7 Vp-p/75 ohms

(Y, Pb/Cb, Pr/Cr) (Except US, Canadian):

Phono jack/Y: 1.0 Vp-p/
Pb/Cb, Pr/Cr: 0.7Vp-p/75ohms

LINE OUT VIDEO:

Phono jack/1.0 Vp-p/75 ohms

LINE OUT S VIDEO:

4-pin mini DIN/
Y: 1.0Vp-p, C: 0.286Vp-p/75ohms
(US, Canadian, E, Chinese, Hong Kong,
Taiwan, Korea, Thai)

4-pin mini DIN/
Y: 1.0Vp-p, C: 0.3Vp-p/75ohms
(AEP, UK, Australian, Russian)

LAN (100):

100BASE-TX Terminal

EXT:

External memory slot (For connecting the
external memory)

DC output: 5 V 500 mA Max

General

Power requirements:
110 V AC, 60Hz (Taiwan)
110-240 V AC, 50/60Hz (E, Hong Kong, Thai)
120V AC, 60Hz (US, Canadian)
220V AC, 60Hz (Korea)
220-240 V AC, 50/60Hz
(AEP, UK, Australian, Chinese)

Power consumption:
26 W

Dimensions (approx.):

430 mm × 220 mm × 60 mm
(17 in. × 8 3/4 in. × 2 3/8 in.)
(width/depth/height) incl. projecting parts

Mass (approx.):

2.9 kg (6 3/8 lb)

Operating temperature:

5 °C to 35 °C (41 °F to 95 °F)

Operating humidity:

25 % to 80 %

Supplied accessories

- Audio/video cable (phono plug ×3) (1)
- AC power cord (1)
- HDMI cable (1) (BDP-BX1)
- Remote commander (remote) (1)
- Size AA (R6) batteries (2)
- Plug Adaptor (1) (E)

Specifications and design are subject to
change without notice.

AVCHD™

HDMI



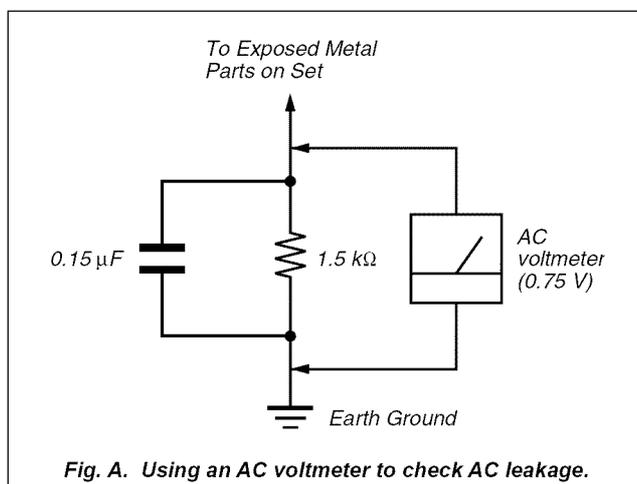
BLU-RAY DISC/DVD PLAYER

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 line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
6. Check the B+ voltage to see it is at the values specified.
7. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.



WARNING!!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION, BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 25 cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.

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.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

CAUTION:

The use of optical instrument with this product will increase eye hazard.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.



This label is located on the laser protective housing inside the enclosure.

This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the laser protective housing inside the enclosure.
(Except US, Canadian, E)

Unleaded solder

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.

(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size.)



: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40°C higher than ordinary solder.

Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.

Soldering irons using a temperature regulator should be set to about 350°C.

Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!

- Strong viscosity
Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.

- Usable with ordinary solder

It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

TABLE OF CONTENTS

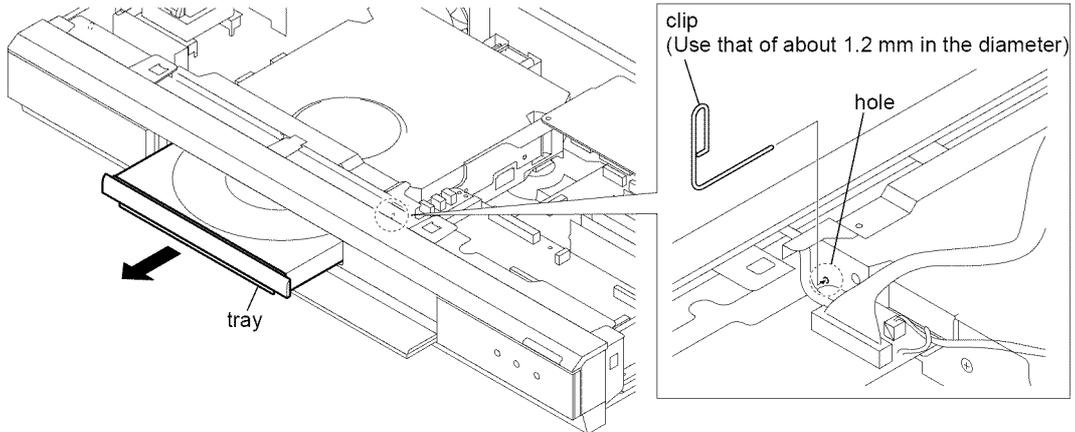
| <u>Section</u> | <u>Title</u> | <u>Page</u> | <u>Section</u> | <u>Title</u> | <u>Page</u> |
|----------------|---|-------------|----------------|---|-------------|
| 1. | SERVICE NOTE | | | Schematic Diagram (4/11)..... | 4-14 |
| 1-1. | Disc Removal Procedure If The Tray Cannot Be Ejected (Forced Ejection)..... | 1-1 | 4-15. | MB-124 Board (FLASH/HOST) Schematic Diagram (5/11)..... | 4-15 |
| 1-2. | Attention at installation of harness (DM-146)..... | 1-1 | 4-16. | MB-124 Board (USB) Schematic Diagram (6/11)..... | 4-16 |
| 1-3. | Test Disc..... | 1-2 | 4-17. | MB-124 Board (HDMI/SATA) Schematic Diagram (7/11)..... | 4-17 |
| 1-3-1. | Operation and Display..... | 1-2 | 4-18. | MB-124 Board (AUDIO/VIDEO) Schematic Diagram (8/11)..... | 4-18 |
| 2. | DISASSEMBLY | | 4-19. | MB-124 Board (GPIO/JTAG) Schematic Diagram (9/11)..... | 4-19 |
| 2-1. | Disassembly Flow..... | 2-1 | 4-20. | MB-124 Board (IPIO) Schematic Diagram (10/11)..... | 4-20 |
| 2-2. | Upper Case..... | 2-1 | 4-21. | MB-124 Board (ETHERNET) Schematic Diagram (11/11)..... | 4-21 |
| 2-3. | Tray Cover Assy..... | 2-2 | 4-22. | USB-008 Board (USB CONNECTOR) Schematic Diagram..... | 4-22 |
| 2-4. | Front Panel Assy..... | 2-2 | 4-23. | Waveforms..... | 4-23 |
| 2-5. | IFD-003 Board..... | 2-3 | 5. | PRINTED WIRING BOARDS | |
| 2-6. | Front Chassis Block..... | 2-3 | 5-1. | This Note Is Common For Printed Wiring Boards..... | 5-1 |
| 2-7. | Rear Panel Block..... | 2-4 | 5-2. | AV-123 Board (AUDIO/VIDEO OUT) Printed Wiring Board (Side A)..... | 5-2 |
| 2-8. | Switching Regulator..... | 2-4 | 5-3. | AV-123 Board (AUDIO/VIDEO OUT) Printed Wiring Board (Side B)..... | 5-3 |
| 2-9. | BD Drive..... | 2-5 | 5-4. | FC-096 Board (LED) Printed Wiring Board..... | 5-4 |
| 2-10. | MB-124 Board..... | 2-5 | 5-5. | FL-187 Board (SWITCH) Printed Wiring Board..... | 5-5 |
| 2-11. | Circuit Boards Location..... | 2-6 | 5-6. | FR-294 Board (FL DRIVER) Printed Wiring Board (Side A)..... | 5-6 |
| 3. | BLOCK DIAGRAMS | | 5-7. | FR-294 Board (FL DRIVER) Printed Wiring Board (Side B)..... | 5-7 |
| 3-1. | Overall Block Diagram (1/2)..... | 3-1 | 5-8. | IFD-003 Board (IF CONTROLLER) Printed Wiring Board (Side A)..... | 5-8 |
| 3-2. | Overall Block Diagram (2/2)..... | 3-2 | 5-9. | IFD-003 Board (IF CONTROLLER) Printed Wiring Board (Side B)..... | 5-9 |
| 3-3. | DSP Block Diagram..... | 3-3 | 5-10. | MB-124 Board (MAIN) Printed Wiring Board (Side A)..... | 5-10 |
| 3-4. | A/V OUT Block Diagram..... | 3-4 | 5-11. | MB-124 Board (MAIN) Printed Wiring Board (Side B)..... | 5-11 |
| 3-5. | USB/ETHER Block Diagram..... | 3-5 | 5-12. | USB-008 Board (USB CONNECTOR) Printed Wiring Board..... | 5-12 |
| 3-6. | IT Block Diagram..... | 3-6 | 6. | IC PIN FUNCTION DESCRIPTION..... | 6-1 |
| 3-7. | Power Block Diagram (1/2)..... | 3-7 | 7. | SERVICE MODE..... | 7-1 |
| 3-8. | Power Block Diagram (2/2)..... | 3-8 | 8. | ERROR LOG LIST..... | 8-1 |
| 4. | SCHEMATIC DIAGRAMS | | 9. | TROUBLESHOOTING..... | 9-1 |
| 4-1. | This Note Is Common For Schematic Diagrams..... | 4-1 | 10. | REPAIR PARTS LIST | |
| 4-2. | Frame Schematic Diagram..... | 4-2 | 10-1. | Exploded Views..... | 10-1 |
| 4-3. | AV-123 Board (AUDIO OUT) Schematic Diagram (1/2)..... | 4-3 | 10-1-1. | Case Section..... | 10-1 |
| 4-4. | AV-123 Board (VIDEO OUT) Schematic Diagram (2/2)..... | 4-4 | 10-1-2. | Front/Rear Chassis Section..... | 10-2 |
| 4-5. | FC-096 Board (LED) Schematic Diagram..... | 4-5 | 10-1-3. | Main Chassis Section..... | 10-3 |
| 4-6. | FL-187 Board (SWITCH) Schematic Diagram..... | 4-6 | 10-1-4. | Accessories..... | 10-4 |
| 4-7. | FR-294 Board (FL DRIVER) Schematic Diagram..... | 4-7 | 10-2. | Electrical Parts List..... | 10-5 |
| 4-8. | IFD-003 Board (POWER) Schematic Diagram (1/3)..... | 4-8 | | | |
| 4-9. | IFD-003 Board (IF CONTROLLER) Schematic Diagram (2/3)..... | 4-9 | | | |
| 4-10. | IFD-003 Board (FAN) Schematic Diagram (3/3)..... | 4-10 | | | |
| 4-11. | MB-124 Board (EMMA3P DDR2-A) Schematic Diagram (1/11)..... | 4-11 | | | |
| 4-12. | MB-124 Board (EMMA3P DDR2-B) Schematic Diagram (2/11)..... | 4-12 | | | |
| 4-13. | MB-124 Board (POWER1) Schematic Diagram (3/11)..... | 4-13 | | | |
| 4-14. | MB-124 Board (CLK/POWER2) | | | | |

SECTION 1 SERVICE NOTE

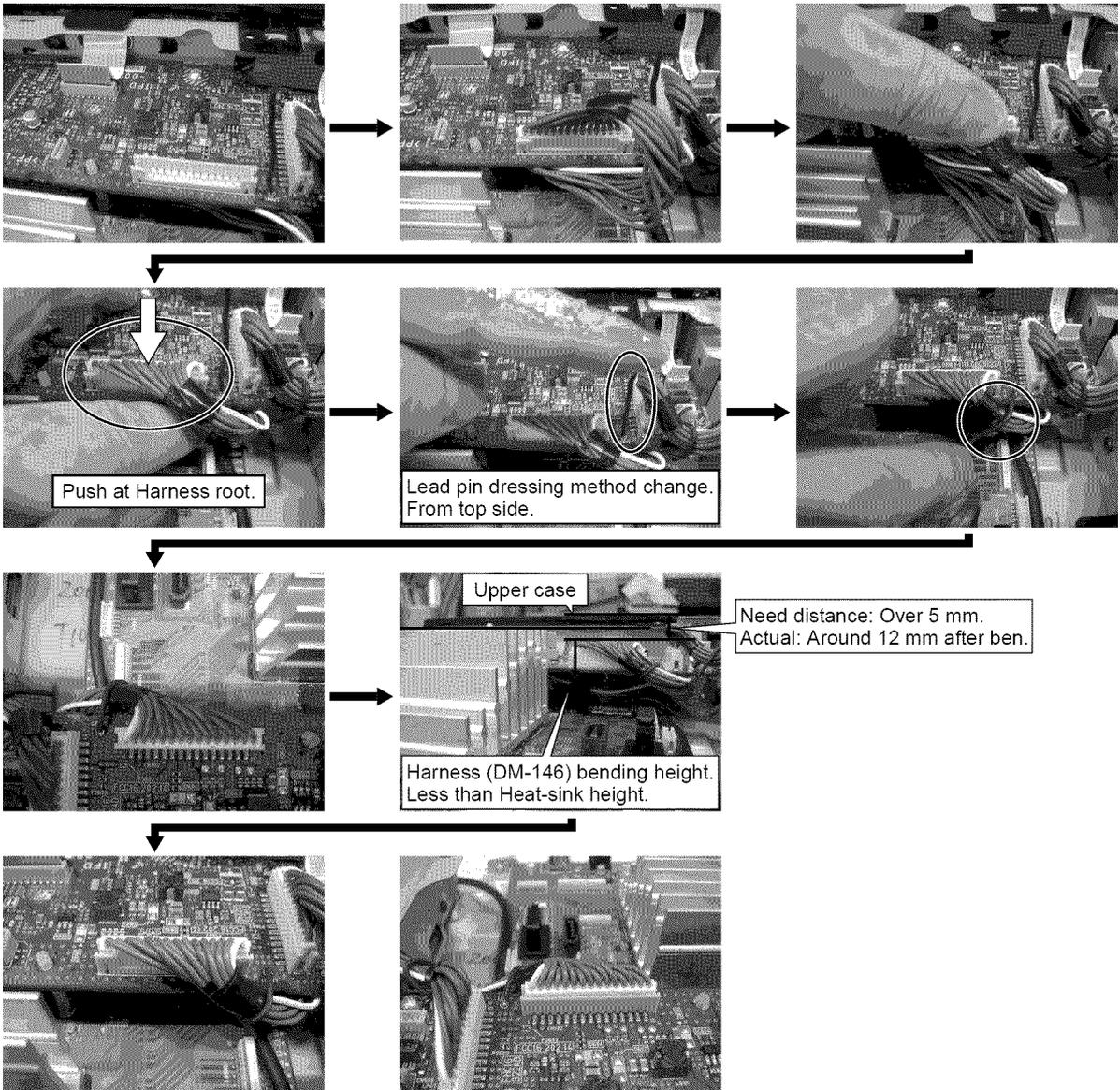
1-1. DISC REMOVAL PROCEDURE IF THE TRAY CANNOT BE EJECTED (FORCED EJECTION)

1. Remove the upper case. (Refer to page 2-1)
2. Insert a clip in the hole of a drive and open a tray.

Note: Use a clip of about 1.2 mm in the diameter



1-2. Attention at installation of harness (DM-146)



1-3. TEST DISC

| Part No. | Description | Layer |
|--------------|--------------|---------------------|
| J-6090-199-A | BLX-104 | Single Layer |
| J-6090-200-A | BLX-204 | Dual Layer |
| 3-702-101-01 | CD (YEDS-18) | |
| J-6090-088-A | HLX-504 | Single Layer (NTSC) |
| J-6090-089-A | HLX-505 | Dual Layer (NTSC) |
| J-6090-077-A | HLX-506 | Single Layer (PAL) |
| J-6090-078-A | HLX-507 | Dual Layer (PAL) |

1-3-1. Operation and Display

Check Items

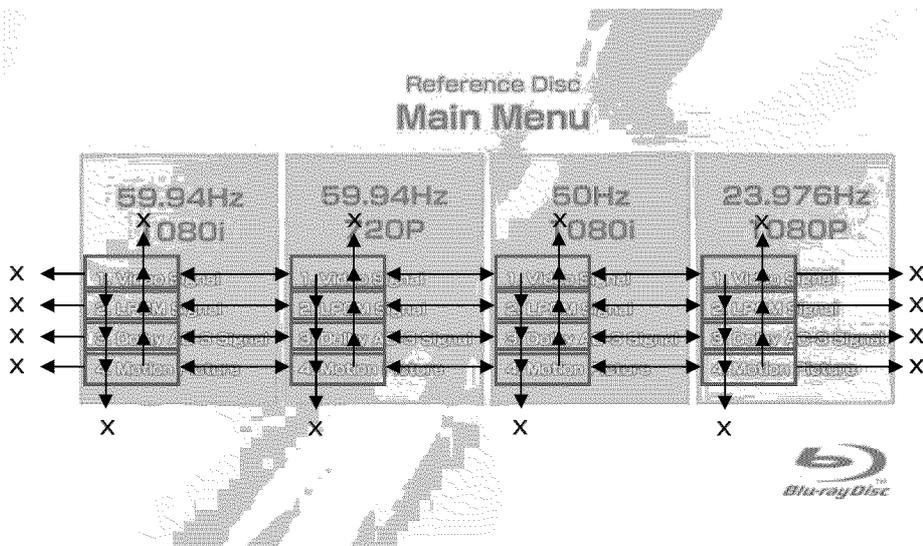
- 1) BLX-104
 1. Select 23.976Hz/1080p
 2. Play "4.Motion pictures"
 3. Check whether player can play back or not
 4. Check each outputs
 - Video:
Composite/S Video/component/HDMI
 - Audio:
Digital out (Coaxial/Optical)/Audio out/5.1Ch output

* When 1080/24p monitor is nothing, 1080i (59.94Hz or 50Hz) can use instead of 1080/24p. However this is temporary correspondence.
- 2) BLX-204
 1. Select 1080i (59.94Hz or 50Hz)
 2. Play "4.Motion pictures"
 3. Check whether player can play back or not
(Check the picture and sound output)
- 3) CD (YEDS-18)

Check whether player can play back or not
(Check the sound output)
- 4) HLX-504/505 (NTSC), HLX-506/507 (PAL)
 1. After displayed Main Menu, select "1.Video"
 2. Play "1.Color Bar 100%"
(Check the picture and sound output)
 3. Return to Menu
 4. Play "Demonstration 4:3" or "5.Demonstration 16:9"
(Check the picture and sound output)

1-3-1-1. BLX-104 Menu Function (1)

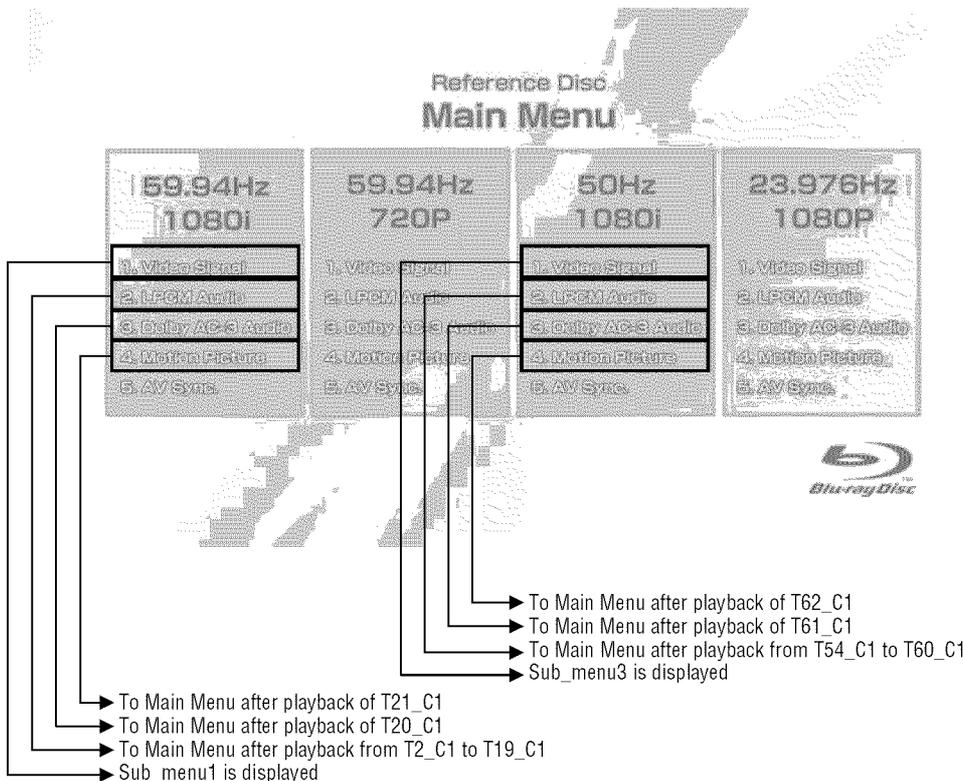
Main Menu



1) When the disc is inserted, 1. Video Signal of 59.94Hz/1080i of the Main Menu is selectively displayed.

1-3-1-2. BLX-104 Menu Function (2)

Main Menu

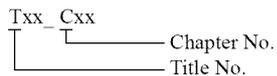


* When returning to Main Menu after playback from each button of 59.94Hz/1080i, 1. Video Signal of 59.94Hz/1080i is selectively displayed.

* When returning to Main Menu after playback from each button of 50Hz/1080i, 1. Video Signal of 50Hz/1080i is selectively displayed.

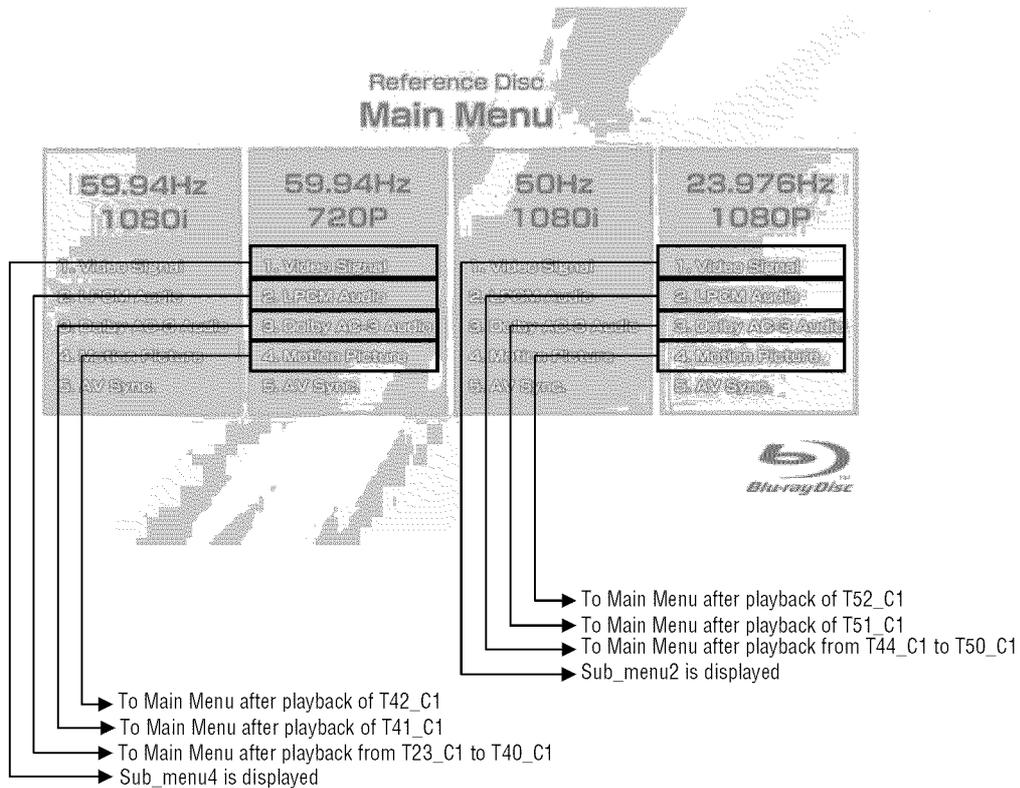
* 5. AV Sync does not operate.

Note:



1-3-1-3. BLX-104 Menu Function (3)

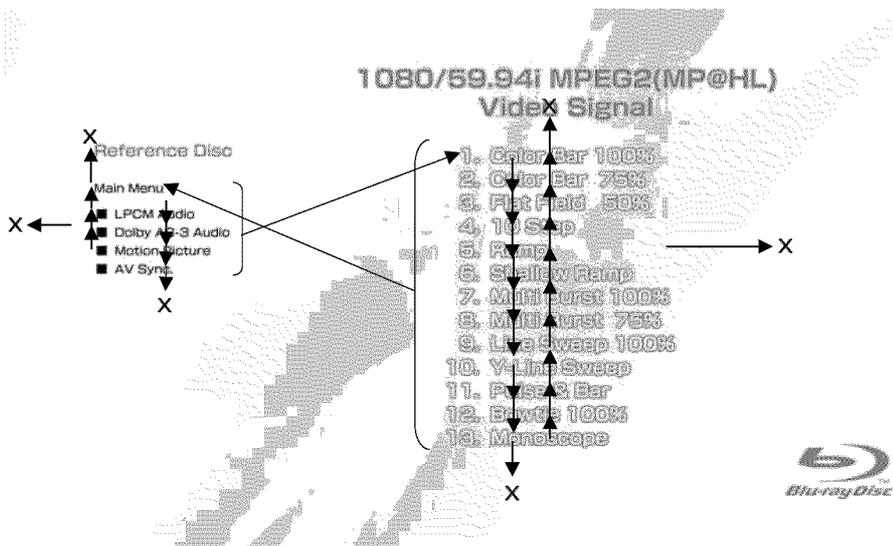
Main Menu



- * When returning to Main Menu after playback from each button of 59.94Hz/720P, 1. Video Signal of 59.94Hz/720P is selectively displayed.
- * When returning to Main Menu after playback from each button of 23.976Hz/1080P, 1. Video Signal of 23.976Hz/1080P is selectively displayed.
- * 5. AV Sync does not operate.

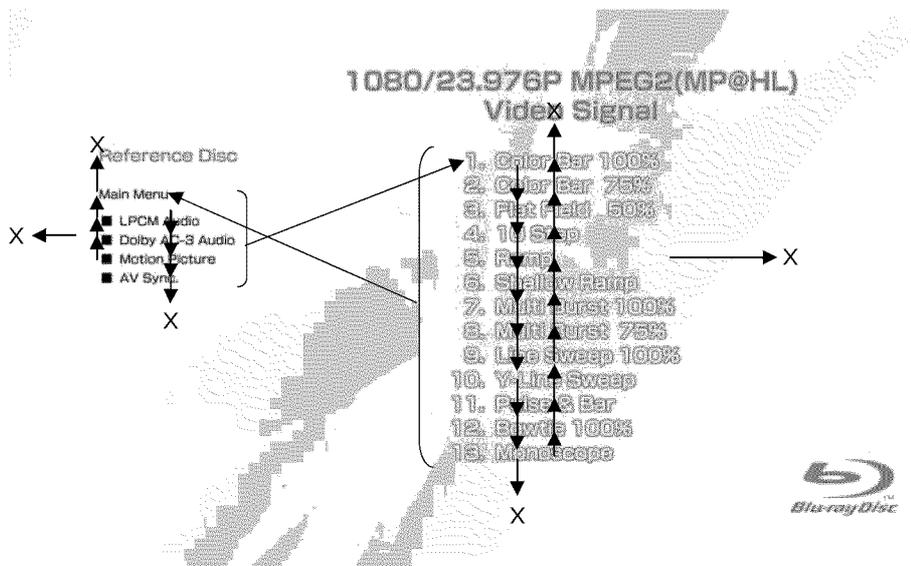
1-3-1-4. BLX-104 Menu Function (4)

Sub menu1



- 1) At the display of Sub menu1, 1. Color Bar 100% is selectively displayed.
- 2) Selection of 1. Color Bar 100% → Return to Sub menu1 after seamless playback from T1_C1 to T1_C13. 1. Color Bar 100% is selectively displayed on Sub menu1 screen.
- 3) Selection of 2. Color Bar 75% → Return to Sub menu1 after seamless playback from T1_C2 to T1_C13. 1. Color Bar 100% is selectively displayed on Sub menu1 screen.
- 4) At the selection of 3 - 13, item 3 mentioned above is executed as the routine.
- 5) At the display of Sub menu1, Main Menu is selected → Jump to Main Menu. At the display of Main Menu, 1. Video Signal of 59.94Hz/1080i is selectively displayed.
- 6) Selection of LPCM Audio → Playback from T2_C1 to T19_C1. SubPic that corresponds to Audio stream 1 is forcibly displayed. During the playback, when audio channel changes, the caption that corresponds to each audio stream is forcibly displayed. Return to Sub menu1 after playback. 1. Color Bar 100% is selectively displayed on Sub menu1 screen.
- 7) Selection of Dolby AC-3 Audio → Playback of T20_C1. SubPic that corresponds to Audio stream 1 is forcibly displayed. During the playback, when audio channel changes, the caption that corresponds to each audio stream is forcibly displayed. Return to Sub menu1 after playback. 1. Color Bar 100% is selectively displayed on Sub menu1 screen.
- 8) Selection of Motion Picture → Return to Sub menu1 after playback of T21_C1. 1. ColorBar 100% is selectively displayed on Sub menu1 screen.
- 9) At the selection of Main Menu, 1. VideoSignal of 1080/59.94i of Main Menu is selectively displayed.
- 10) AV Sync does not operate.

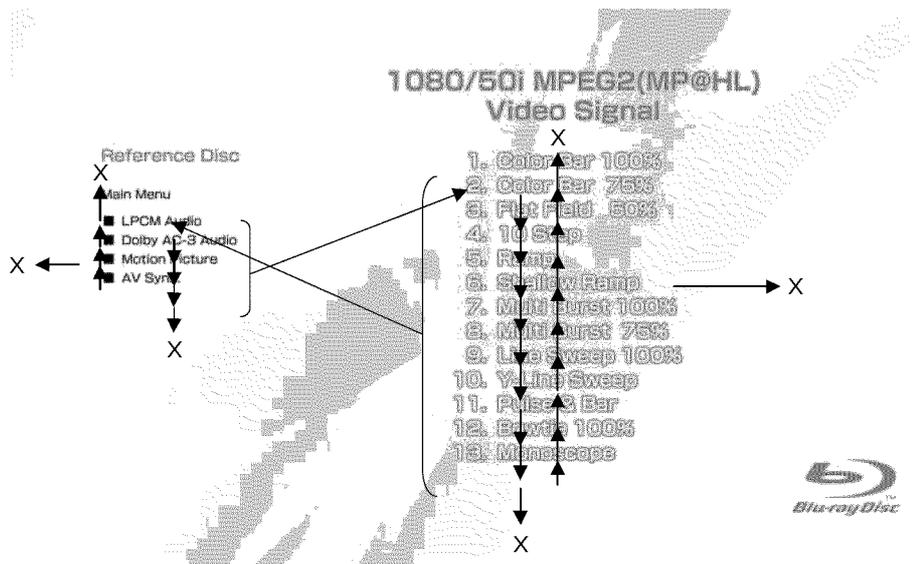
1-3-1-5. BLX-104 Menu Function (5) Sub menu2



- 1) At the display of Sub menu2, 1. Color Bar 100% is selectively displayed.
- 2) Selection of 1. Color Bar 100% → Return to Sub menu2 after seamless playback from T43_C1 to T43_C13. 1. Color Bar 100% is selectively displayed on Sub menu2 screen.
- 3) Selection of 2. Color Bar 75% → Return to Sub menu2 after seamless playback from T43_C2 to T43_C13. 1. Color Bar 100% is selectively displayed on Sub menu2 screen.
- 4) At the selection of 3 - 13, item 3 mentioned above is executed as the routine.
- 5) At the display of Sub menu2, Main Menu is selected → Jump to Main Menu. At the display of Main Menu, 1. Video Signal of 23.976Hz/1080P is selectively displayed.
- 6) Selection of LPCM Audio → Playback from T44_C1 to T50_C1. SubPic that corresponds to Audio stream 1 is forcibly displayed. During the playback, when audio channel changes, the caption that corresponds to each audio stream is forcibly displayed. Return to Sub menu2 after playback. 1. Color Bar 100% is selectively displayed on Sub menu2 screen.
- 7) Selection of Dolby AC-3 Audio → Playback of T51_C1. SubPic that corresponds to Audio stream 1 is forcibly displayed. During the playback, when audio channel changes, the caption that corresponds to each audio stream is forcibly displayed. Return to Sub menu2 after playback. 1. Color Bar 100% is selectively displayed on Sub menu2 screen.
- 8) Selection of Motion Picture → Return to Sub menu2 after playback of T52_C1. 1. Color Bar 100% is selectively displayed on Sub menu2 screen.
- 9) At the selection of Main Menu, 1. Video Signal of 1080/23.976P of Main Menu is selectively displayed.
- 10) AV Sync does not operate.

1-3-1-6. BLX-104 Menu Function (6)

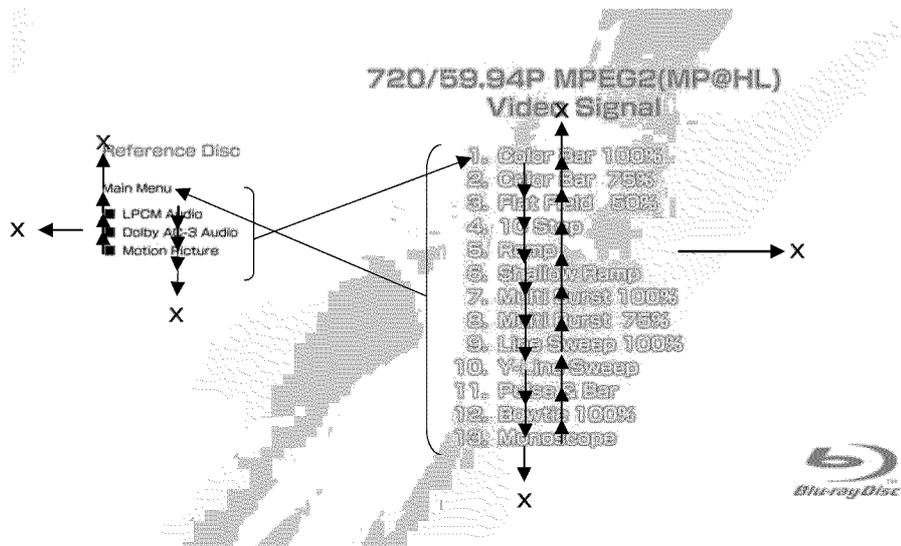
Sub menu3



- 1) At the display of Sub menu3, 1. Color Bar 100% is selectively displayed.
- 2) Selection of 1. Color Bar 100% → Return to Sub menu3 after seamless playback from T53_C1 to T53_C13. 1. Color Bar 100% is selectively displayed on Sub menu3 screen.
- 3) Selection of 2. Color Bar 75% → Return to Sub menu3 after seamless playback from T53_C2 to T53_C13. 1. Color Bar 100% is selectively displayed on Sub menu3 screen.
- 4) At the selection of 3 - 13, item 3 mentioned above is executed as the routine.
- 5) At the display of Sub menu3, Main Menu is selected → Jump to Main Menu. At the display of Main Menu, 1. Video Signal of 50Hz/1080i is selectively displayed.
- 6) Selection of LPCM Audio → Playback from T54_C1 to T60_C1. SubPic that corresponds to Audio stream 1 is forcibly displayed. During the playback, when audio channel changes, the caption that corresponds to each audio stream is forcibly displayed. Return to Sub menu3 after playback. 1. Color Bar 100% is selectively displayed on Sub menu3 screen.
- 7) Selection of Dolby AC-3 Audio → Playback of T61_C1. SubPic that corresponds to Audio stream 1 is forcibly displayed. During the playback, when audio channel changes, the caption that corresponds to each audio stream is forcibly displayed. Return to Sub menu3 after playback. 1. Color Bar 100% is selectively displayed on Sub menu3 screen.
- 8) Selection of Motion Picture → Return to Sub menu3 after playback of T62_C1. 1. Color Bar 100% is selectively displayed on Sub menu3 screen.
- 9) At the selection of Main Menu, 1. Video Signal of 1080/50i of Main Menu is selectively displayed.
- 10) AV Sync does not operate.

1-3-1-7. BLX-104 Menu Function (7)

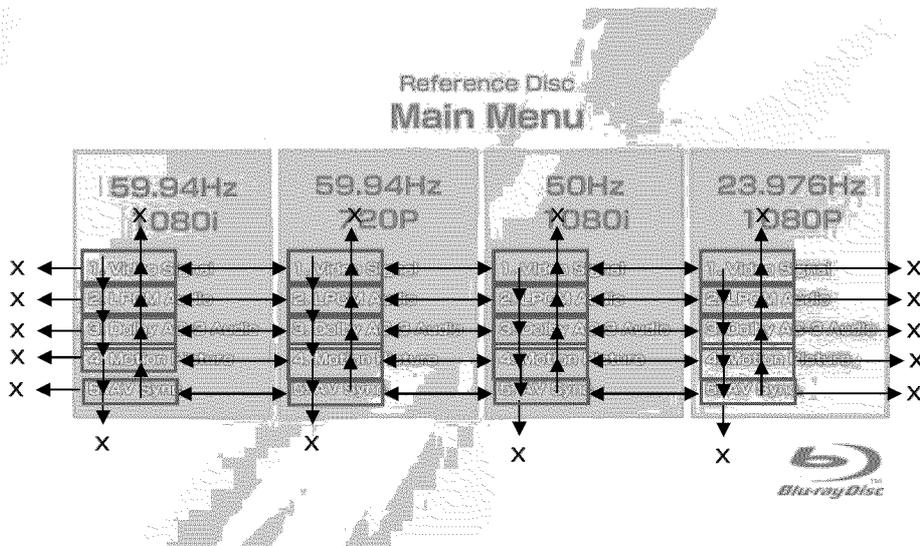
Sub menu4



- 1) At the display of Sub menu4, 1. Color Bar 100% is selectively displayed.
- 2) Selection of 1. Color Bar 100% → Return to Sub menu4 after seamless playback from T22_C1 to T22_C13. 1. Color Bar 100% is selectively displayed on Sub menu4 screen.
- 3) Selection of 2. Color Bar 75% → Return to Sub menu4 after seamless playback from T22_C2 to T22_C13. 1. Color Bar 100% is selectively displayed on Sub menu4 screen.
- 4) At the selection of 3 - 13, item 3 mentioned above is executed as the routine.
- 5) At the display of Sub menu4, Main Menu is selected → Jump to Main Menu. At the display of Main Menu, 1. Video Signal of 59.94Hz/720P is selectively displayed.
- 6) Selection of LPCM Audio → Playback from T44_C1 to T50_C1. SubPic that corresponds to Audio stream 1 is forcibly displayed. During the playback, when audio channel changes, the caption that corresponds to each audio stream is forcibly displayed. Return to Sub menu4 after playback. 1. Color Bar 100% is selectively displayed on Sub menu4 screen.
- 7) Selection of Dolby AC-3 Audio → Playback of T51_C1. SubPic that corresponds to Audio stream 1 is forcibly displayed. During the playback, when audio channel changes, the caption that corresponds to each audio stream is forcibly displayed. Return to Sub menu4 after playback. 1. Color Bar 100% is selectively displayed on Sub menu4 screen.
- 8) Selection of Motion Picture → Return to Sub menu4 after playback of T52_C1. 1. Color Bar 100% is selectively displayed on Sub menu4 screen.
- 9) At the selection of Main Menu, 1. Video Signal of 720/59.94P of Main Menu is selectively displayed.
- 10) AV Sync does not operate.

1-3-2-1. BLX-204 Menu Function (1)

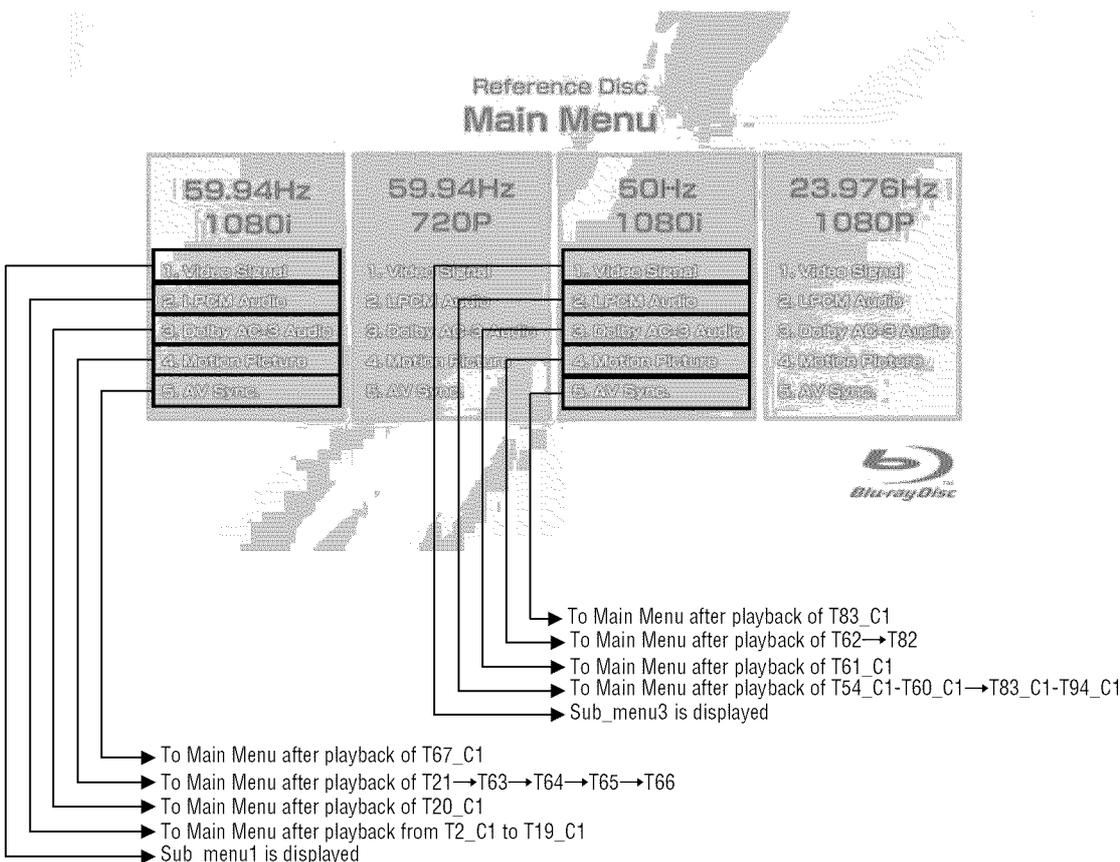
Main Menu



1) When the disc is inserted, 1. Video Signal of 59.94Hz/1080i of the Main Menu is selectively displayed.

1-3-2-2. BLX-204 Menu Function (2)

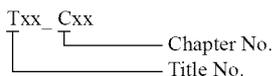
Main Menu



* When returning to Main Menu after playback from each button of 59.94Hz/1080i, 1. Video Signal of 59.94Hz/1080i is selectively displayed.

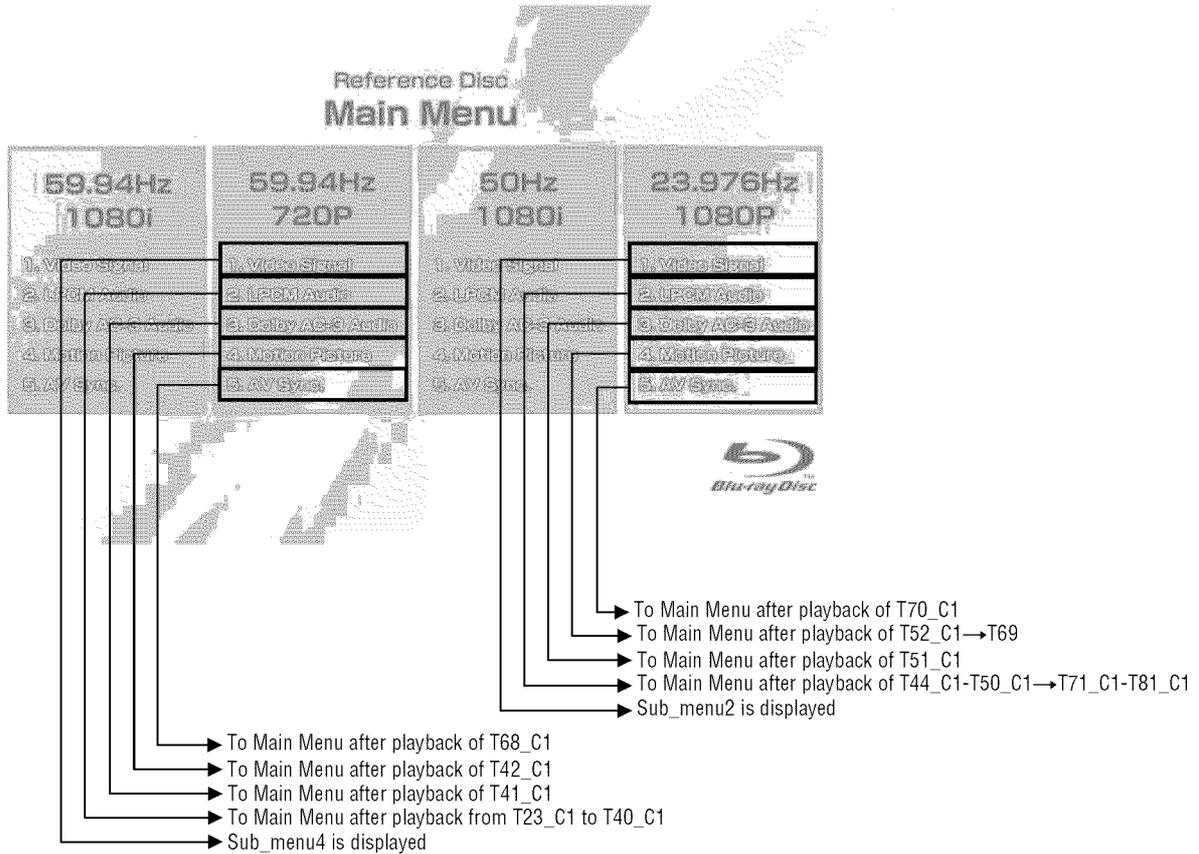
* When returning to Main Menu after playback from each button of 50Hz/1080i, 1. Video Signal of 50Hz/1080i is selectively displayed.

Note:



1-3-2-3. BLX-204 Menu Function (3)

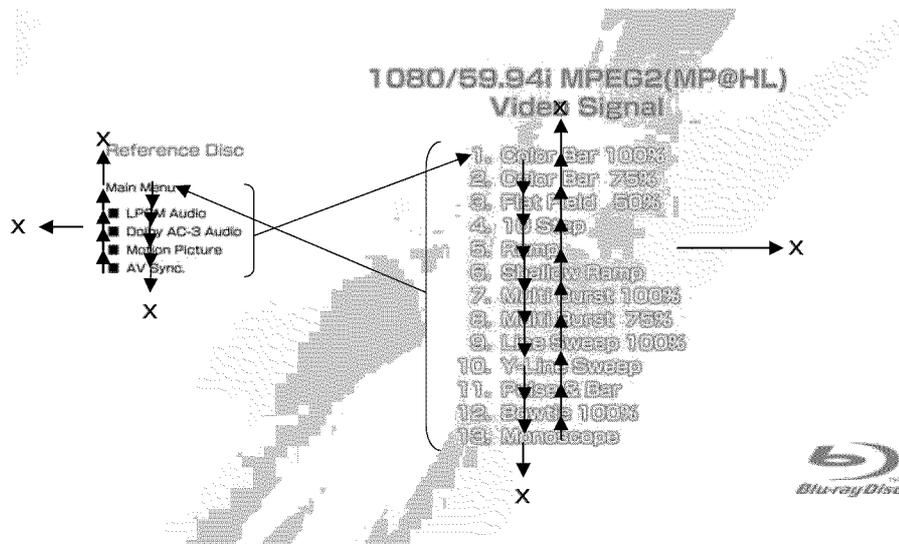
Main Menu



* When returning to Main Menu after playback from each button of 59.94Hz/720P, 1. Video Signal of 59.94Hz/720P is selectively displayed.

* When returning to Main Menu after playback from each button of 23.976Hz/1080P, 1. Video Signal of 23.976Hz/1080P is selectively displayed.

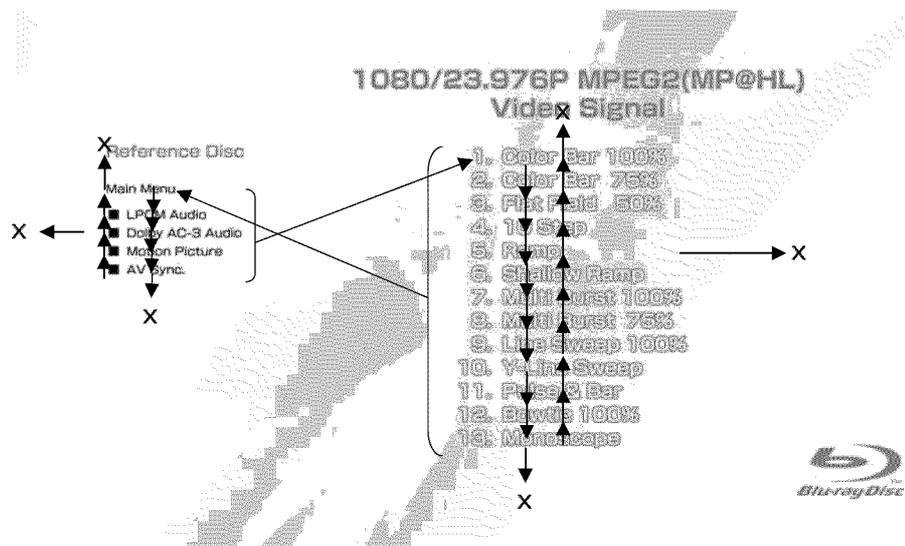
1-3-2-4. BLX-204 Menu Function (4) Sub menu 1



- 1) At the display of Sub menu1, 1. Color Bar 100% is selectively displayed.
- 2) Selection of 1. Color Bar 100% → Return to Sub menu1 after seamless playback from T1_C1 to T1_C13. 1. Color Bar 100% is selectively displayed on Sub menu1 screen.
- 3) Selection of 2. Color Bar 75% → Return to Sub menu1 after seamless playback from T1_C2 to T1_C13. 1. Color Bar 100% is selectively displayed on Sub menu1 screen.
- 4) At the selection of 3 - 13, item 3 mentioned above is executed as the routine.
- 5) At the display of Sub menu1, Main Menu is selected → Jump to Main Menu. At the display of Main Menu, 1. Video Signal of 59.94Hz/1080i is selectively displayed.
- 6) Selection of LPCM Audio → Playback from T2_C1 to T19_C1. SubPic that corresponds to Audio stream 1 is forcibly displayed. During the playback, when audio channel changes, the caption that corresponds to each audio stream is forcibly displayed. Return to Sub menu1 after playback. 1. Color Bar 100% is selectively displayed on Sub menu1 screen.
- 7) Selection of Dolby AC-3 Audio → Playback of T20_C1. SubPic that corresponds to Audio stream 1 is forcibly displayed. During the playback, when audio channel changes, the caption that corresponds to each audio stream is forcibly displayed. Return to Sub menu1 after playback. 1. Color Bar 100% is selectively displayed on Sub menu1 screen.
- 8) Selection of Motion Picture → Return to Sub menu1 after playback of T21_C1. 1. Color Bar 100% is selectively displayed on Sub menu1 screen.
- 9) Selection of AV Sync → Return to Sub menu1 after playback of T67_C1. 1. Color Bar 100% is selectively displayed on Sub menu1 screen.
- 10) At the selection of Main Menu, 1. Video Signal of 1080/59.94i of Main Menu is selectively displayed.

1-3-2-5. BLX-204 Menu Function (5)

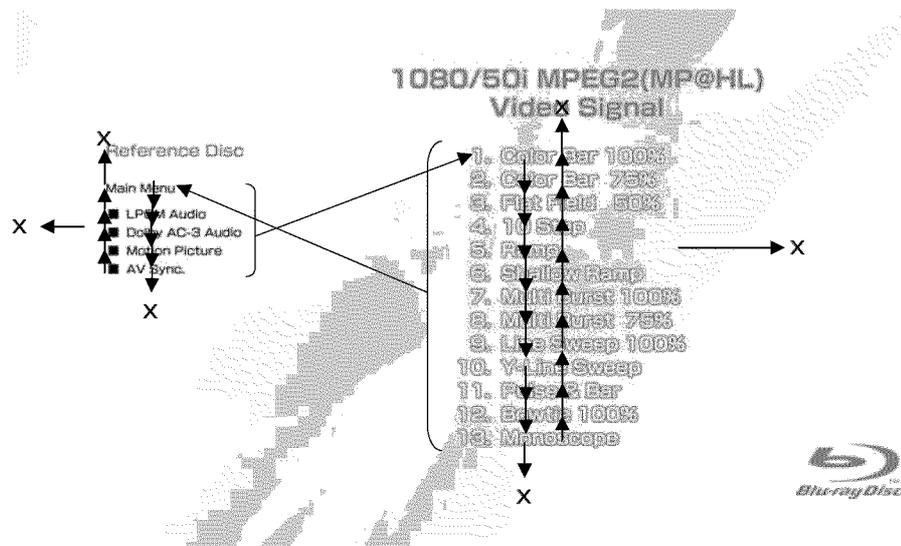
Sub menu 2



- 1) At the display of Sub menu2, 1. Color Bar 100% is selectively displayed.
- 2) Selection of 1. Color Bar 100% → Return to Sub menu2 after seamless playback from T43_C1 to T43_C13. 1. Color Bar 100% is selectively displayed on Sub menu2 screen.
- 3) Selection of 2. Color Bar 75% → Return to Sub menu2 after seamless playback from T43_C2 to T43_C13. 1. Color Bar 100% is selectively displayed on Sub menu2 screen.
- 4) At the selection of 3 - 13, item 3 mentioned above is executed as the routine.
- 5) At the display of Sub menu2, Main Menu is selected → Jump to Main Menu. At the display of Main Menu, 1. Video Signal of 23.976Hz/1080P is selectively displayed.
- 6) Selection of LPCMAudio → Playback from T44_C1 to T50_C1 and from T71_C1 to T81_C1. SubPic that corresponds to Audio stream 1 is forcibly displayed.
During the playback, when audio channel changes, the caption that corresponds to each audio stream is forcibly displayed. Return to Sub menu2 after playback. 1. Color Bar 100% is selectively displayed on Sub menu2 screen.
- 7) Selection of Dolby AC-3 Audio → Playback of T51_C1. SubPic that corresponds to Audio stream 1 is forcibly displayed.
During the playback, when audio channel changes, the caption that corresponds to each audio stream is forcibly displayed. Return to Sub menu2 after playback. 1. Color Bar 100% is selectively displayed on Sub menu2 screen.
- 8) Selection of Motion Picture → Return to Sub menu2 after playback of T52_C1 and T69. 1. Color Bar 100% is selectively displayed on Sub menu2 screen.
- 9) Selection of AV Sync → Return to Sub menu2 after playback of T70_C1. 1. Color Bar 100% is selectively displayed on Sub menu2 screen.
- 10) At the selection of Main Menu, 1. Video Signal of 1080/23.976P of Main Menu is selectively displayed.

1-3-2-6. BLX-204 Menu Function (6)

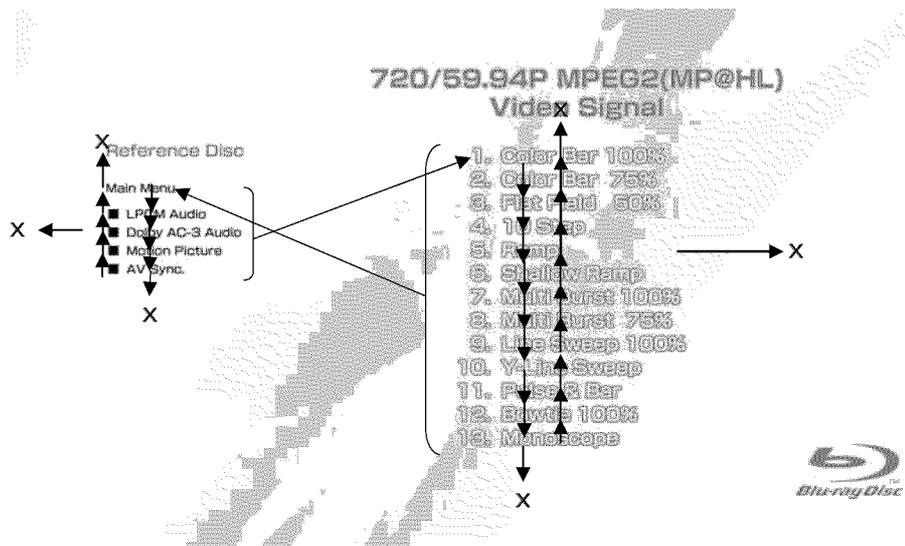
Sub menu 3



- 1) At the display of Sub menu3, 1. Color Bar 100% is selectively displayed.
- 2) Selection of 1. Color Bar 100% → Return to Sub menu3 after seamless playback from T53_C1 to T53_C13. 1. Color Bar 100% is selectively displayed on Sub menu3 screen.
- 3) Selection of 2. Color Bar 75% → Return to Sub menu3 after seamless playback from T53_C2 to T53_C13. 1. Color Bar 100% is selectively displayed on Sub menu3 screen.
- 4) At the selection of 3 - 13, item 3 mentioned above is executed as the routine.
- 5) At the display of Sub menu3, Main Menu is selected → Jump to Main Menu. At the display of Main Menu, 1. Video Signal of 50Hz/1080i is selectively displayed.
- 6) Selection of LPCMAudio → Playback from T54_C1 to T60_C1 and from T84_C1 to T94_C1. SubPic that corresponds to Audio stream 1 is forcibly displayed. During the playback, when audio channel changes, the caption that corresponds to each audio stream is forcibly displayed. Return to Sub menu3 after playback. 1. Color Bar 100% is selectively displayed on Sub menu3 screen.
- 7) Selection of Dolby AC-3 Audio → Playback of T61_C1. SubPic that corresponds to Audio stream 1 is forcibly displayed. During the playback, when audio channel changes, the caption that corresponds to each audio stream is forcibly displayed. Return to Sub menu3 after playback. 1. Color Bar 100% is selectively displayed on Sub menu3 screen.
- 8) Selection of Motion Picture → Return to Sub menu3 after playback of T62_C1 and T82. 1. Color Bar 100% is selectively displayed on Sub menu3 screen.
- 9) Selection of AV Sync → Return to Sub menu3 after playback of T83_C1. 1. Color Bar 100% is selectively displayed on Sub menu3 screen.
- 10) At the selection of Main Menu, 1. Video Signal of 1080/50i of Main Menu is selectively displayed.

1-3-2-7. BLX-204 Menu Function (7)

Sub menu 4

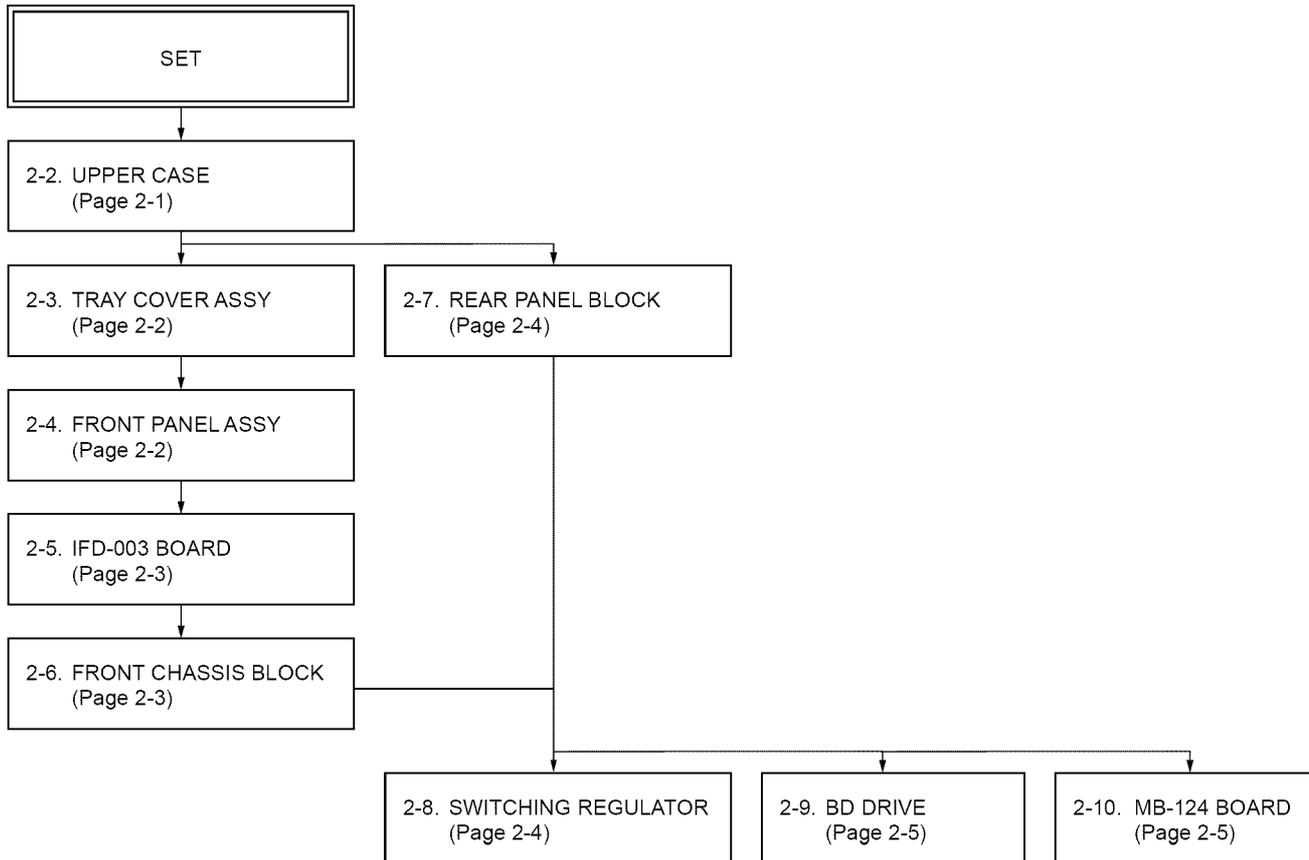


- 1) At the display of Sub menu4, 1. Color Bar 100% is selectively displayed.
- 2) Selection of 1. Color Bar 100% → Return to Sub menu4 after seamless playback from T22_C1 to T22_C13. 1. Color Bar 100% is selectively displayed on Sub menu4 screen.
- 3) Selection of 2. Color Bar 75% → Return to Sub menu4 after seamless playback from T22_C2 to T22_C13. 1. Color Bar 100% is selectively displayed on Sub menu4 screen.
- 4) At the selection of 3 - 13, item 3 mentioned above is executed as the routine.
- 5) At the display of Sub menu4, Main Menu is selected → Jump to Main Menu. At the display of Main Menu, 1. Video Signal of 59.94Hz/720P is selectively displayed.
- 6) Selection of LPCM Audio → Playback from T44_C1 to T50_C1. SubPic that corresponds to Audio stream 1 is forcibly displayed. During the playback, when audio channel changes, the caption that corresponds to each audio stream is forcibly displayed. Return to Sub menu4 after playback. 1. Color Bar 100% is selectively displayed on Sub menu4 screen.
- 7) Selection of Dolby AC-3 Audio → Playback of T51_C1. SubPic that corresponds to Audio stream 1 is forcibly displayed. During the playback, when audio channel changes, the caption that corresponds to each audio stream is forcibly displayed. Return to Sub menu4 after playback. 1. Color Bar 100% is selectively displayed on Sub menu4 screen.
- 8) Selection of Motion Picture → Return to Sub menu4 after playback of T52_C1. 1. Color Bar 100% is selectively displayed on Sub menu4 screen.
- 9) Selection of AV Sync → Return to Sub menu4 after playback of T68_C1. 1. Color Bar 100% is selectively displayed on Sub menu4 screen.
- 10) At the selection of Main Menu, 1. Video Signal of 720/59.94P of Main Menu is selectively displayed.

SECTION 2 DISASSEMBLY

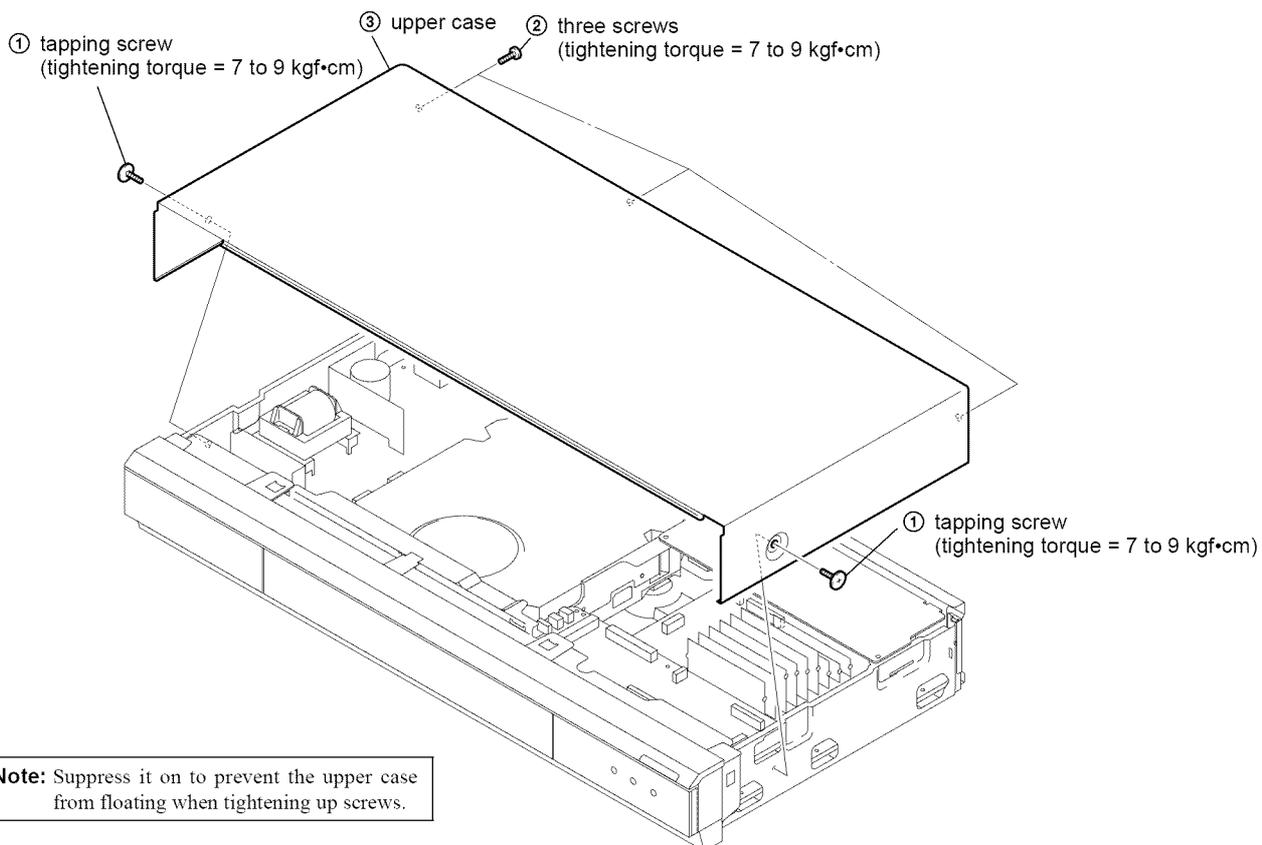
- This set can be disassembled in the order shown below.

2-1. DISASSEMBLY FLOW



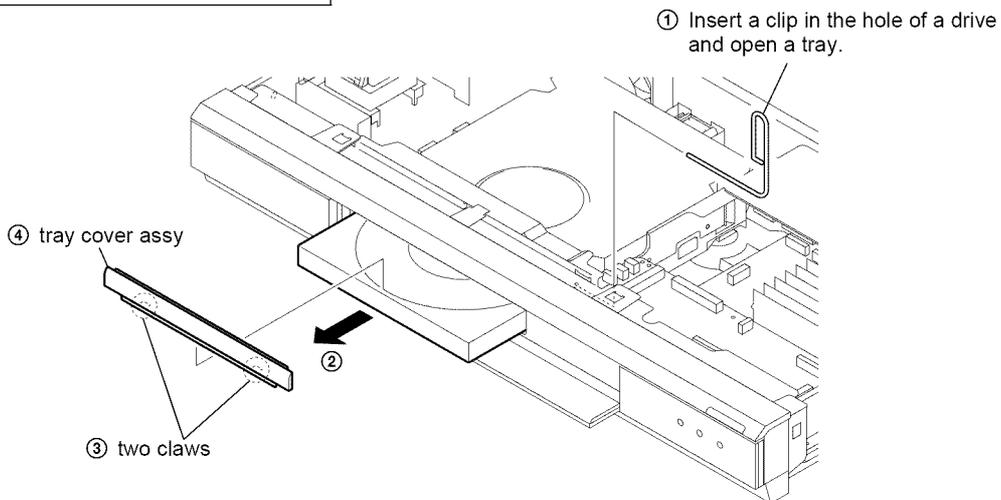
Note: Follow the disassembly procedure in the numerical order given.

2-2. UPPER CASE

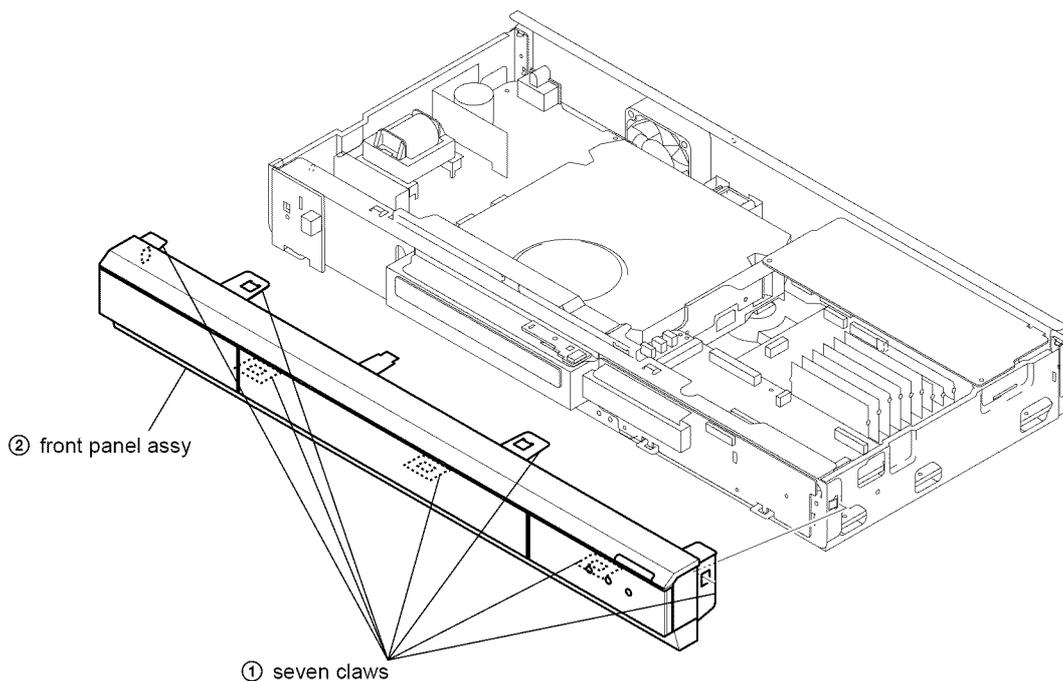


2-3. TRAY COVER ASSY

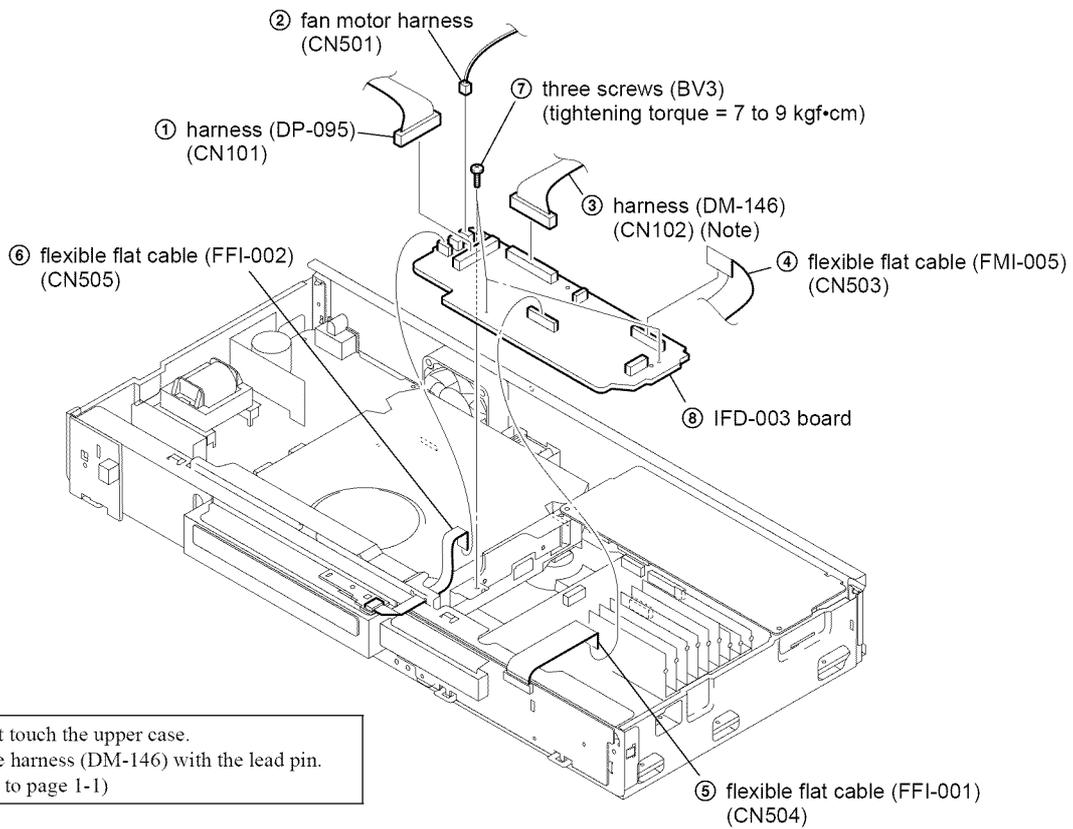
Note: If the tray cover assy or BD drive are not exchange, it need not be this work.



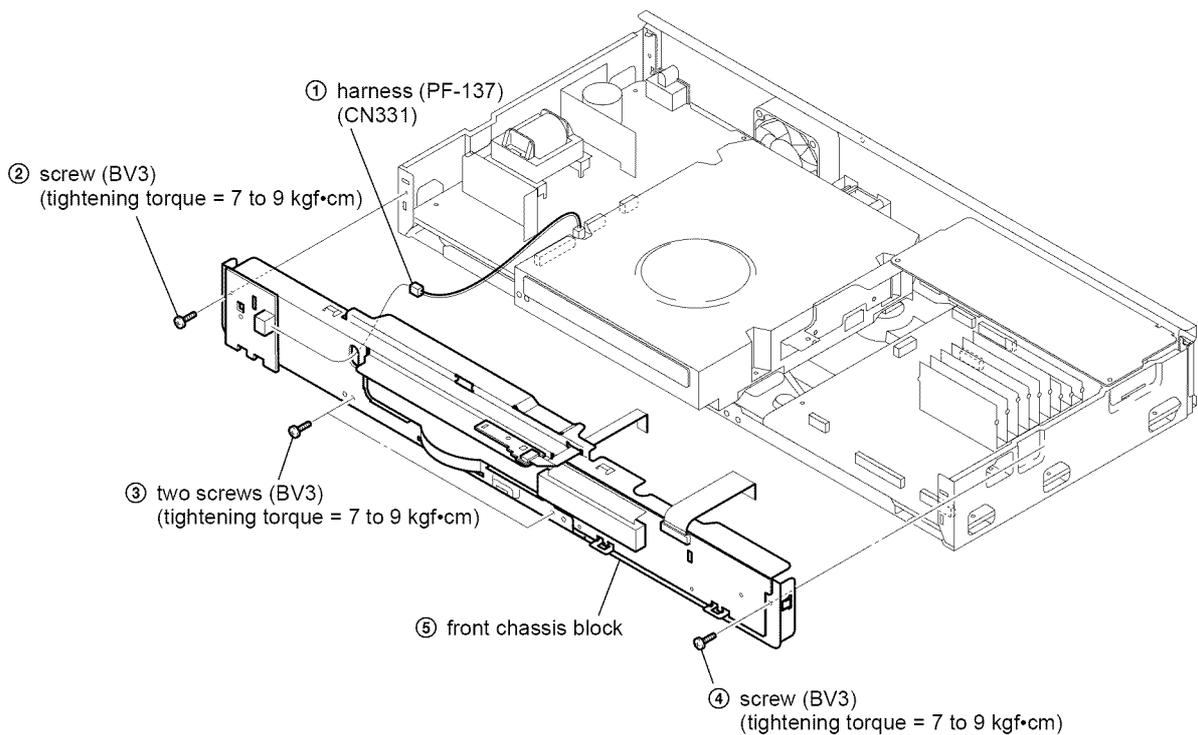
2-4. FRONT PANEL ASSY



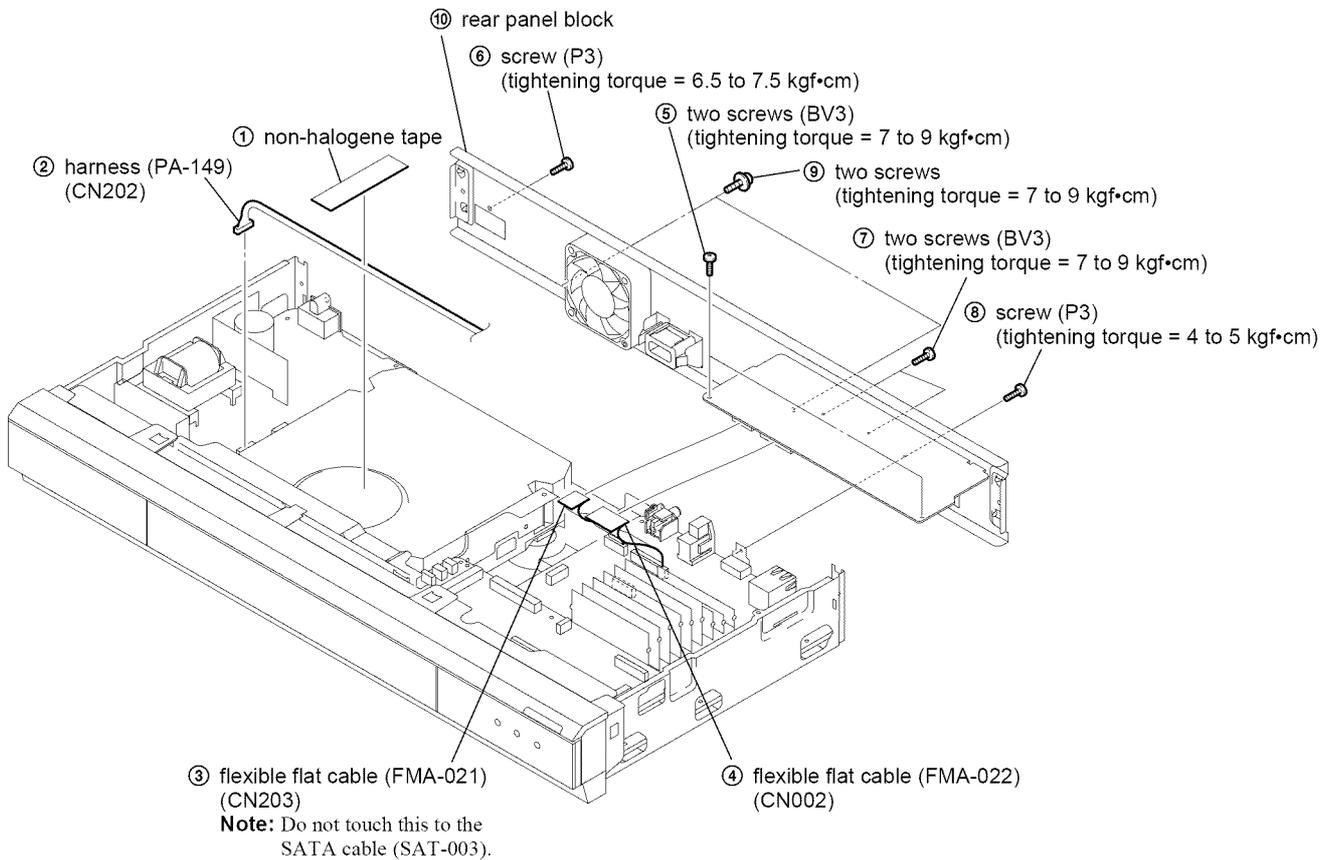
2-5. IFD-003 BOARD



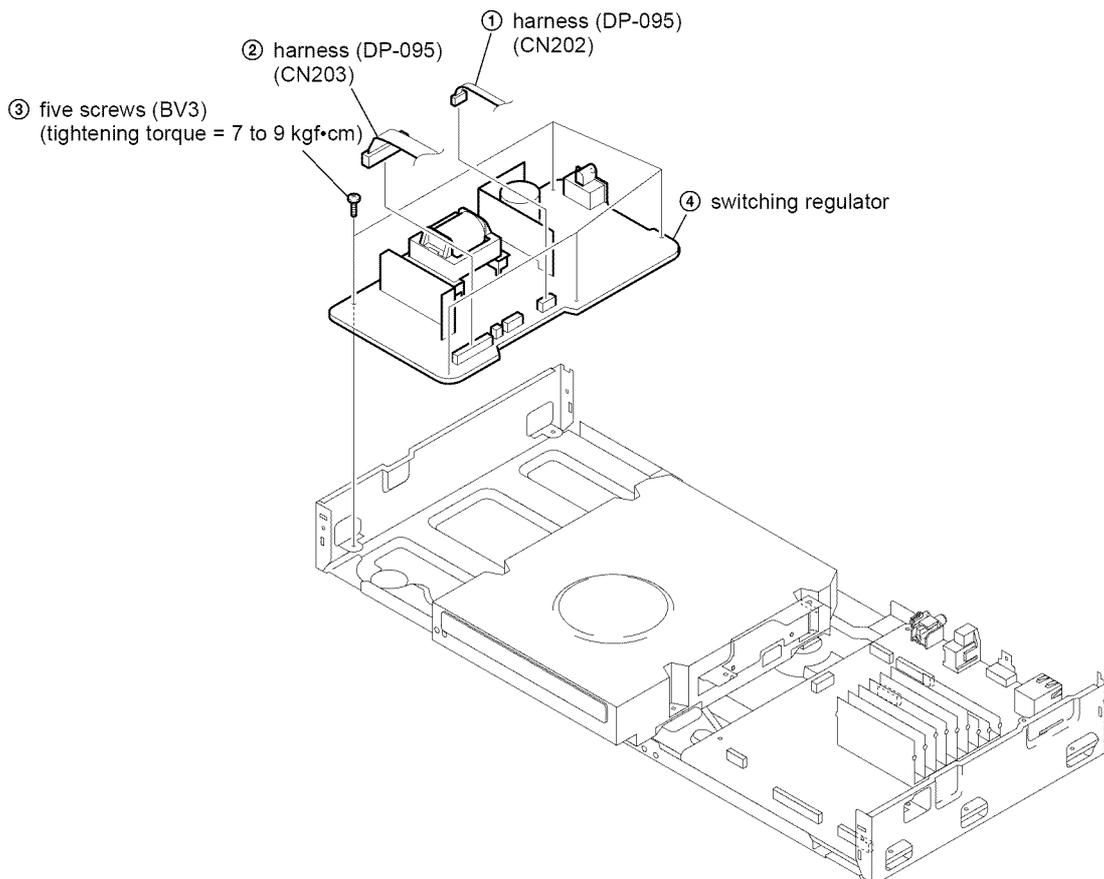
2-6. FRONT CHASSIS BLOCK



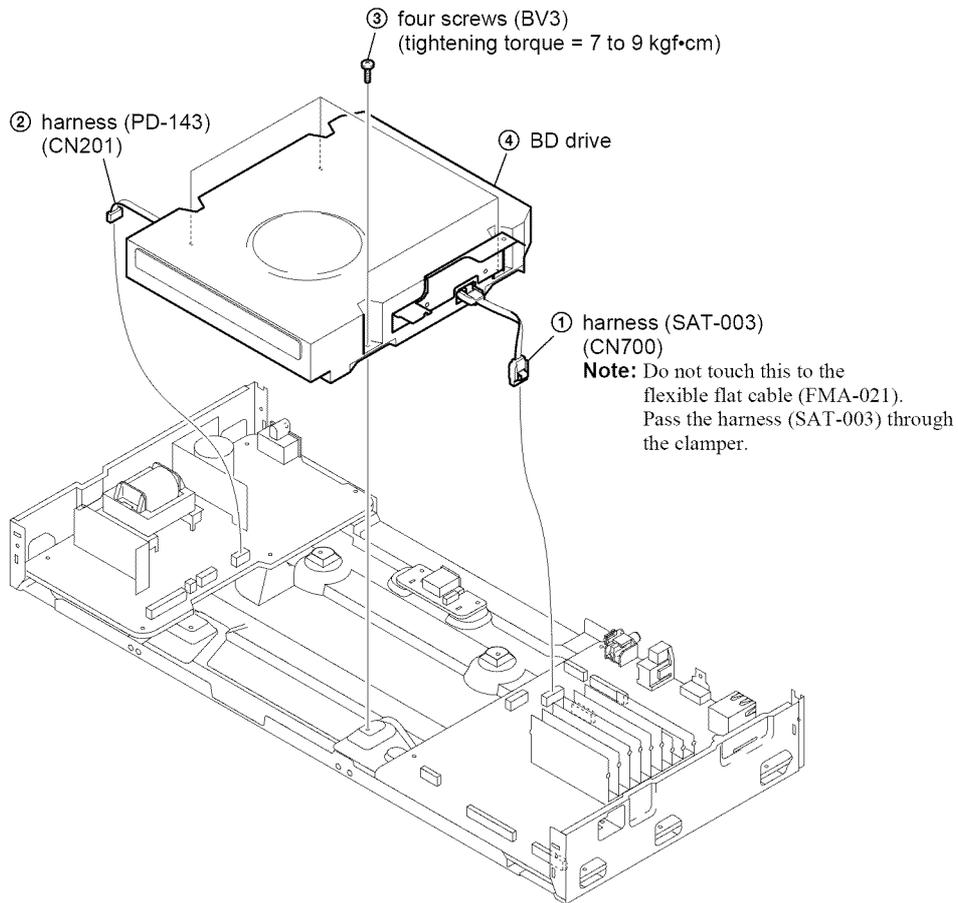
2-7. REAR PANEL BLOCK



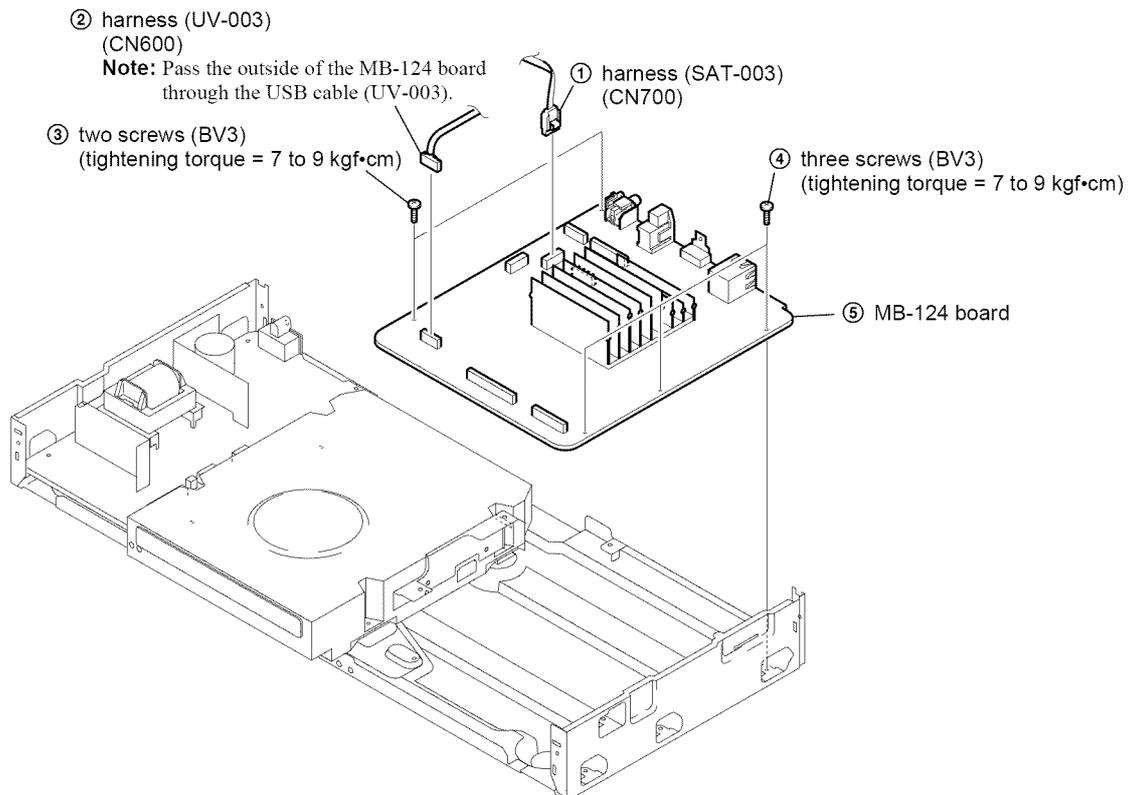
2-8. SWITCHING REGULATOR



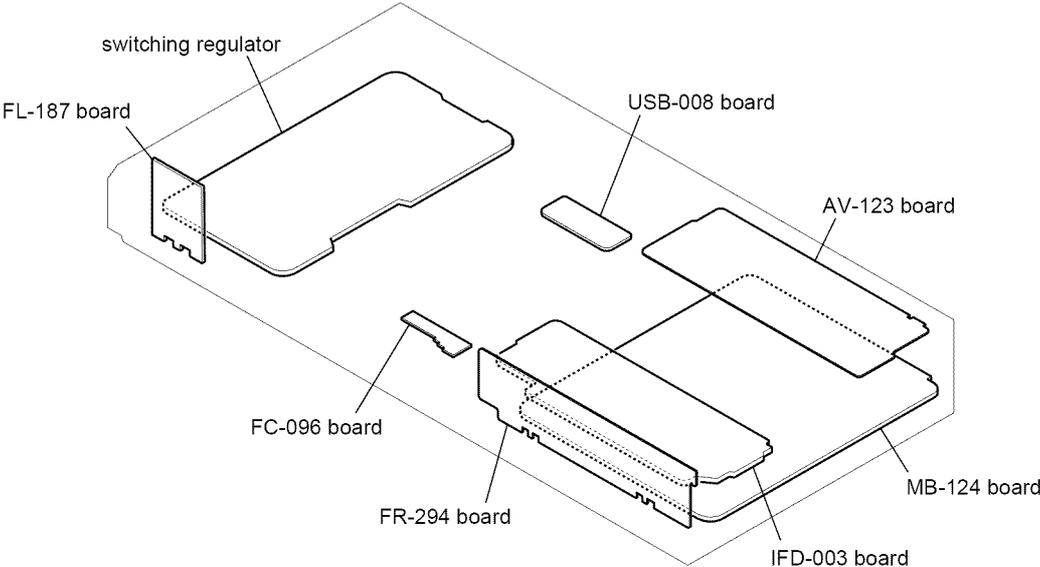
2-9. BD DRIVE



2-10. MB-124 BOARD

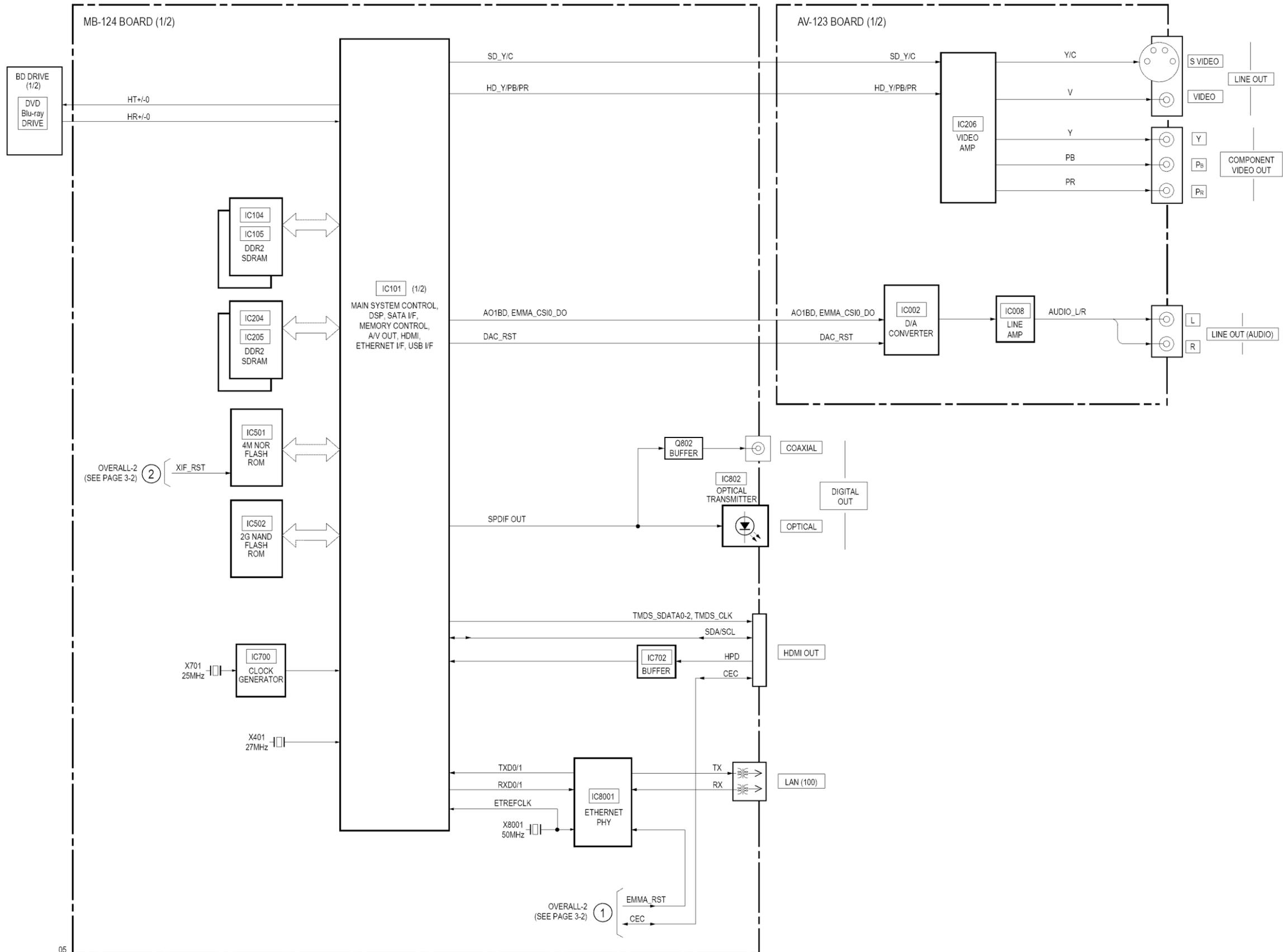


2-11. CIRCUIT BOARDS LOCATION

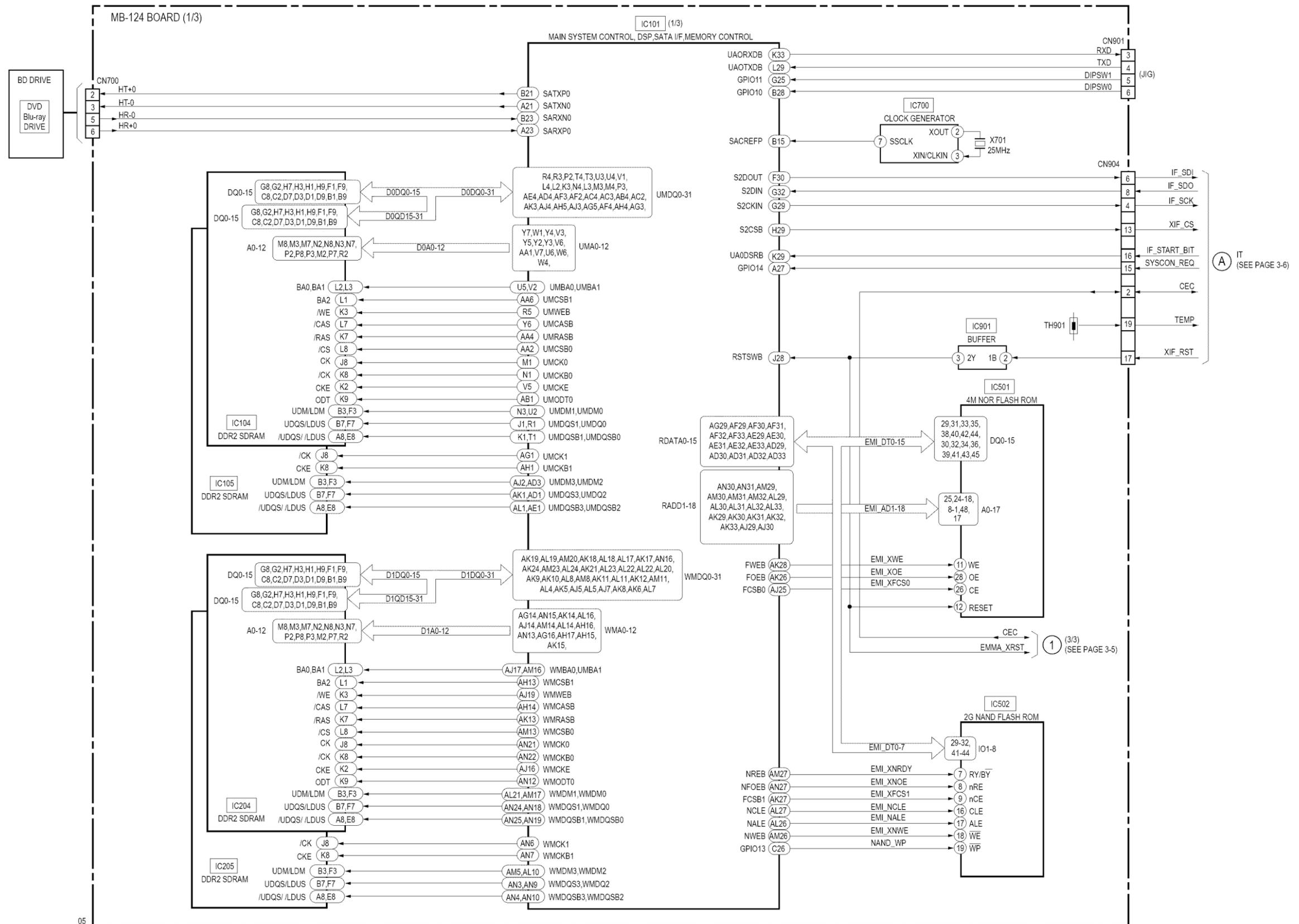


SECTION 3 BLOCK DIAGRAMS

3-1. OVERALL BLOCK DIAGRAM (1/2)

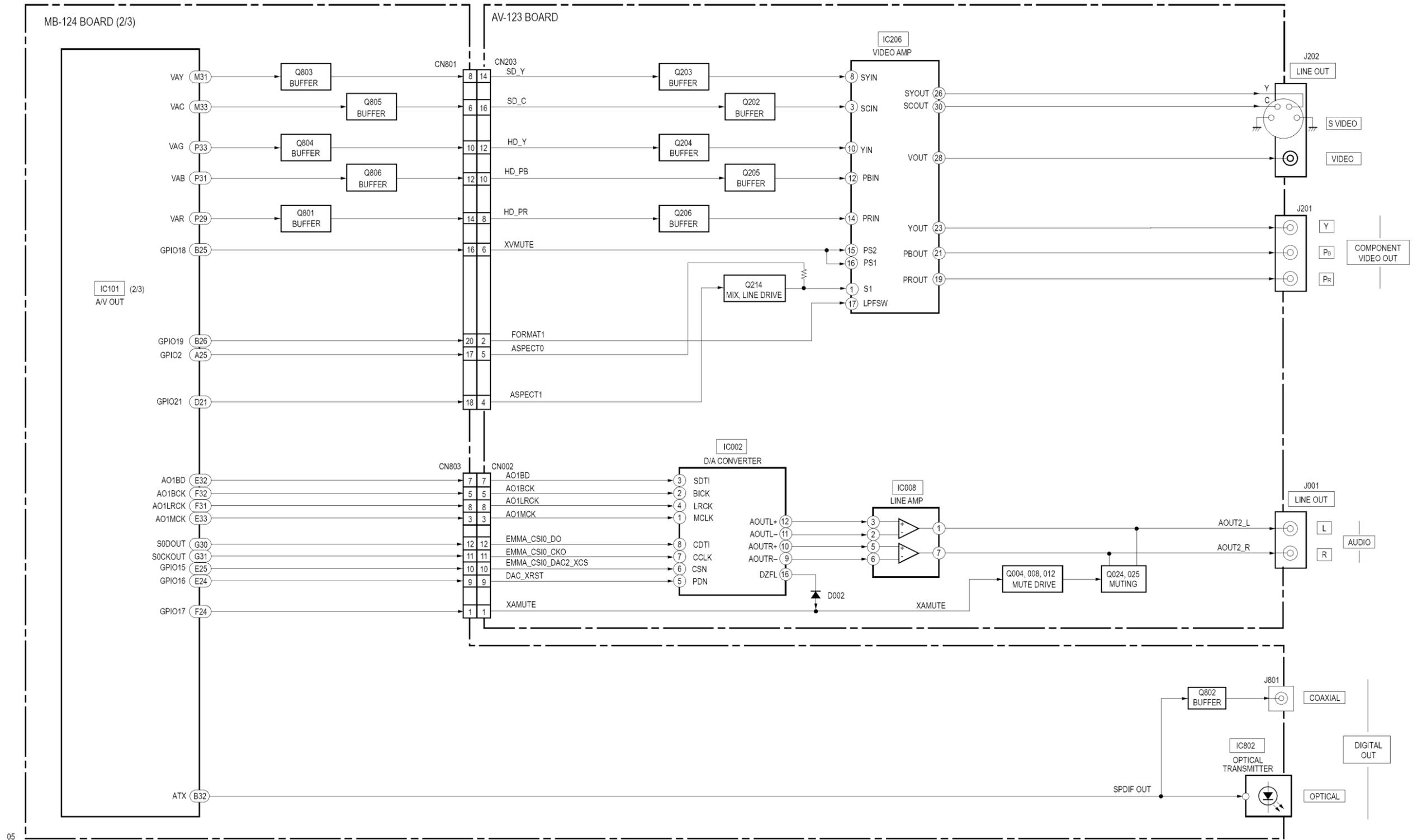


3-3. DSP BLOCK DIAGRAM

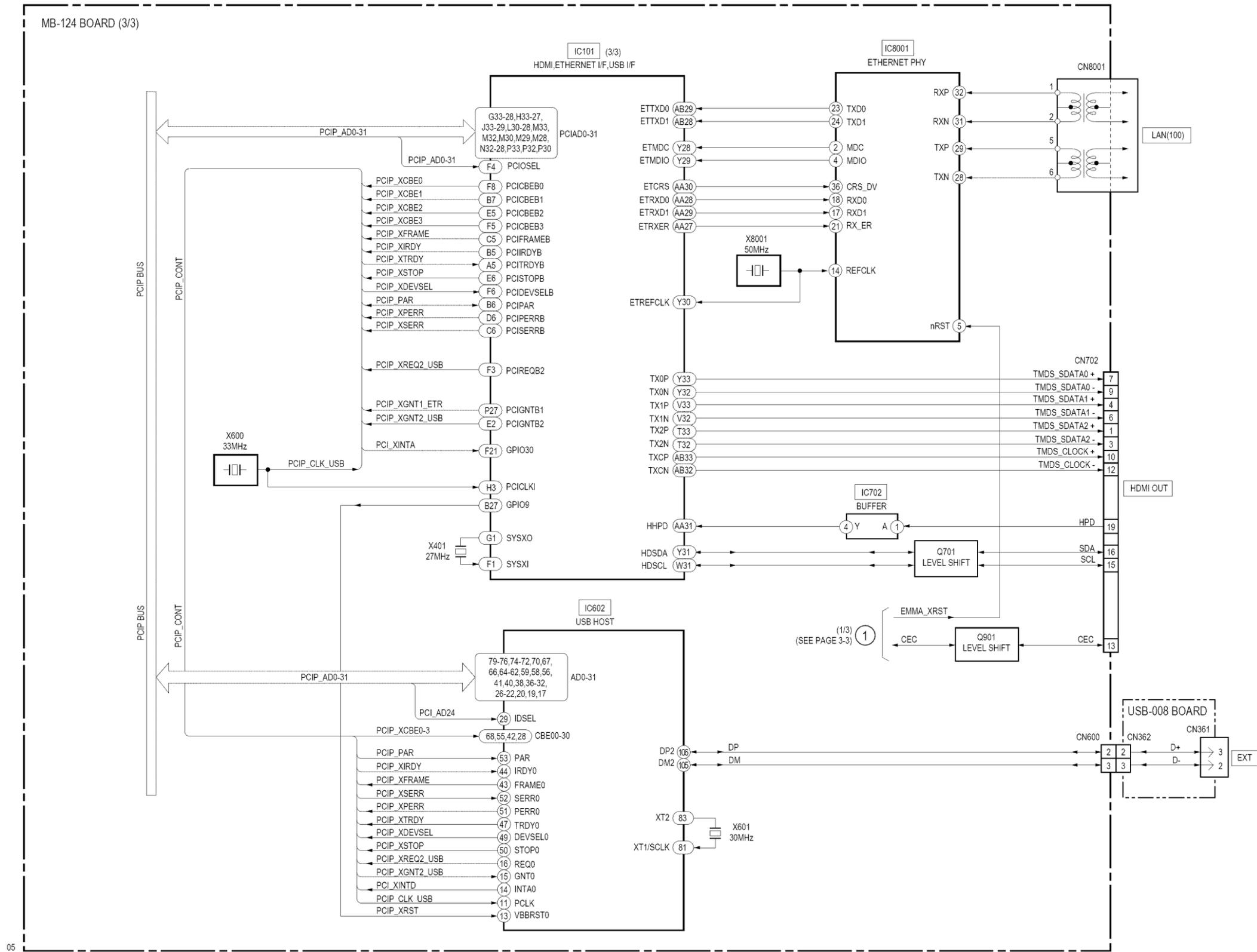


05

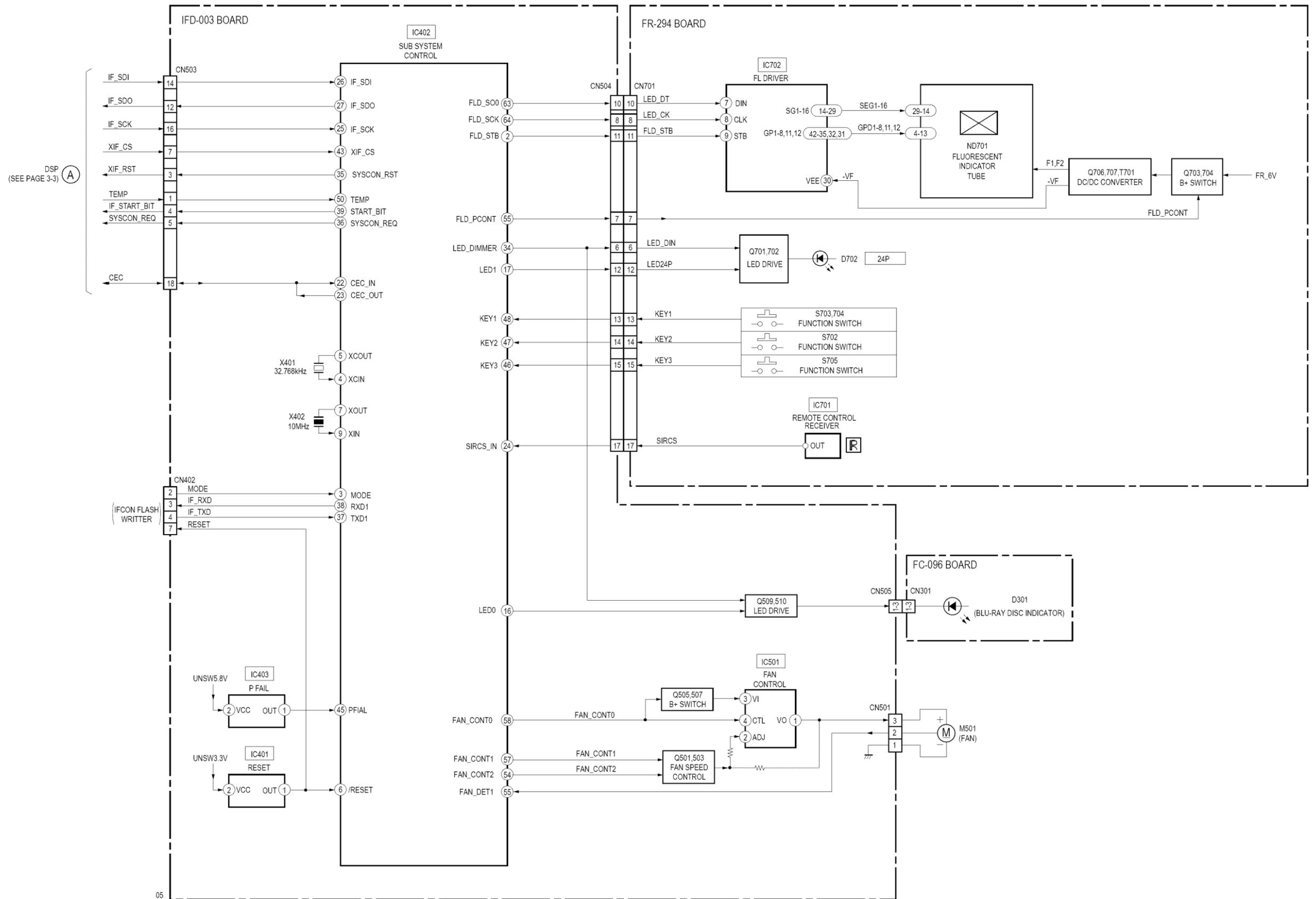
3-4. A/V OUT BLOCK DIAGRAM



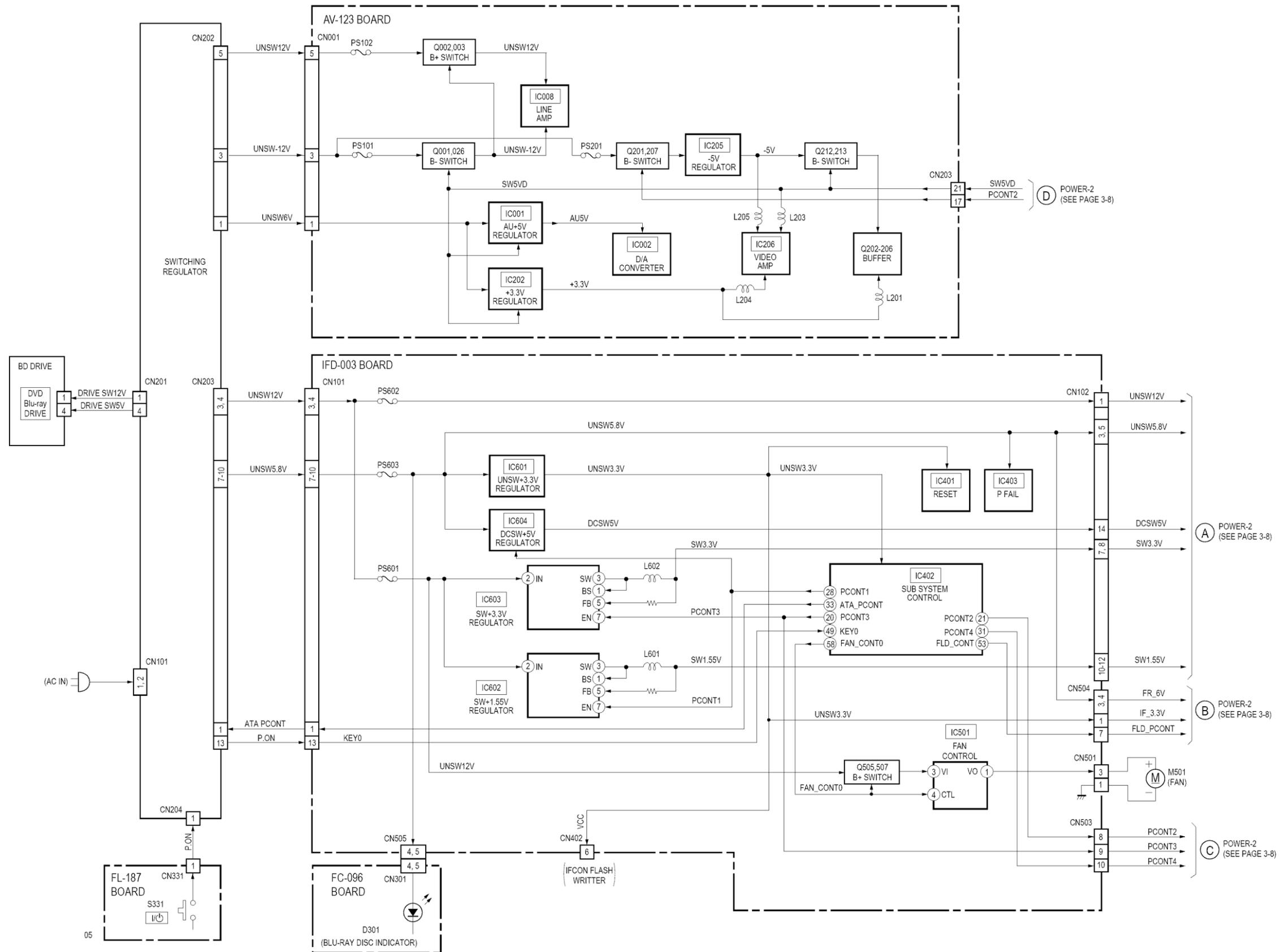
3-5. USB/ETHER BLOCK DIAGRAM



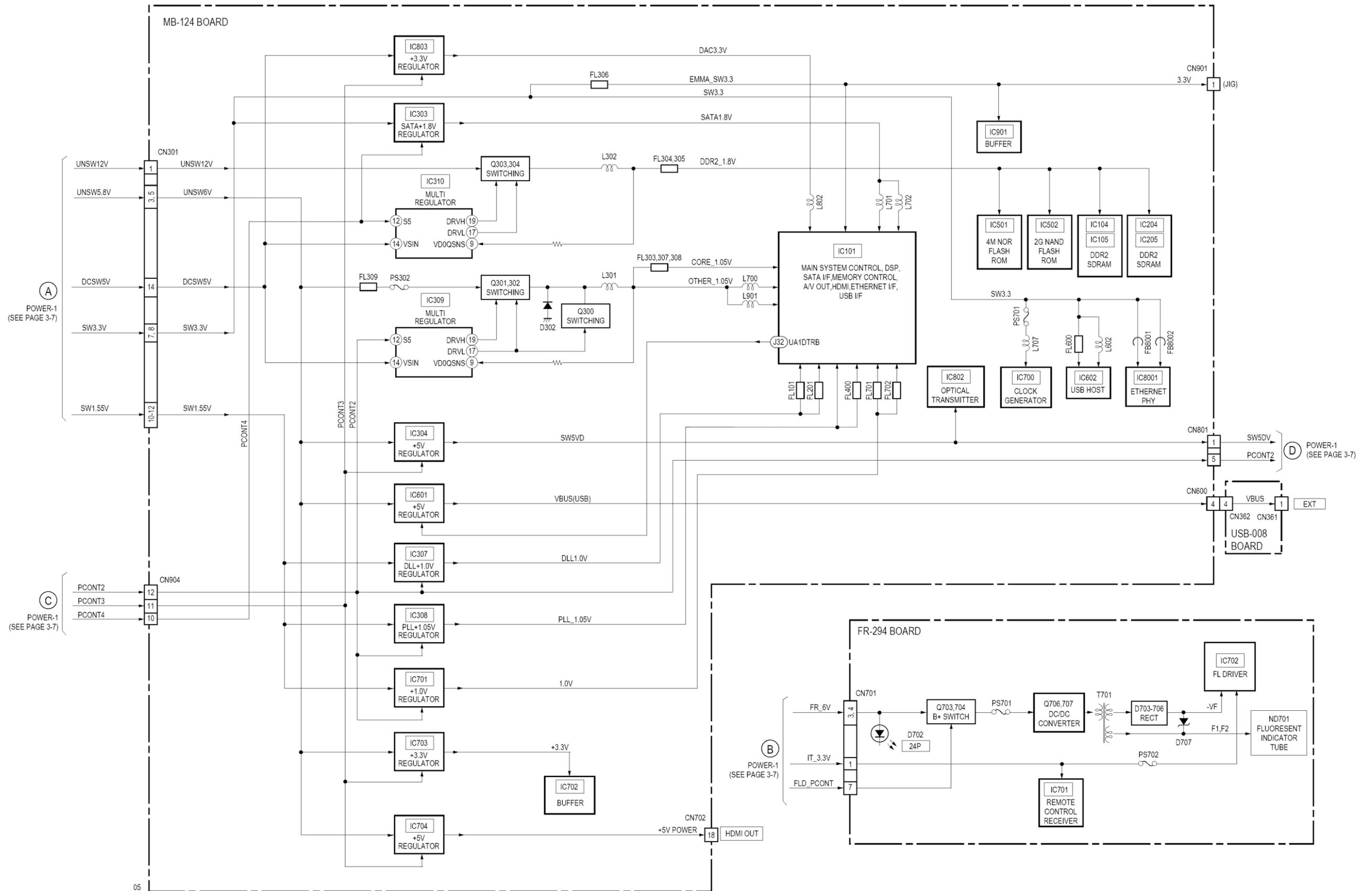
3-6. IT BLOCK DIAGRAM



3-7. POWER BLOCK DIAGRAM (1/2)



3-8. POWER BLOCK DIAGRAM (2/2)



SECTION 4 SCHEMATIC DIAGRAMS

4-1. THIS NOTE IS COMMON FOR SCHEMATIC DIAGRAMS

- All capacitors are in μF unless otherwise noted. pF : $\mu\mu\text{F}$.
50V or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, 1/4 W (Chip resistors : 1 /10 W) un-less otherwise specified.
 $\text{k}\Omega=1000\Omega$, $\text{M}\Omega=1000\text{k}\Omega$.
- % : indicates tolerance.
- 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.
- Constants of resistors, capacitors, ICs and etc with XX indicate that they are not used.
In such cases, the unused circuits may be indicated.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
-  : nonflammable resistor
-  : fusible resistor
-  : panel designation
-  : internal component.
-  : adjustment for repair.
-  : B+ Line
-  : B- Line
- Circled numbers refer to waveforms.
- Voltages are dc between measurement point.
- Readings are taken with a color-bar signals on Blu-ray disc.
- Readings are taken with a digital multimeter (DC 10M Ω).
- Voltage variations may be noted due to normal production tolerances.

Note:

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

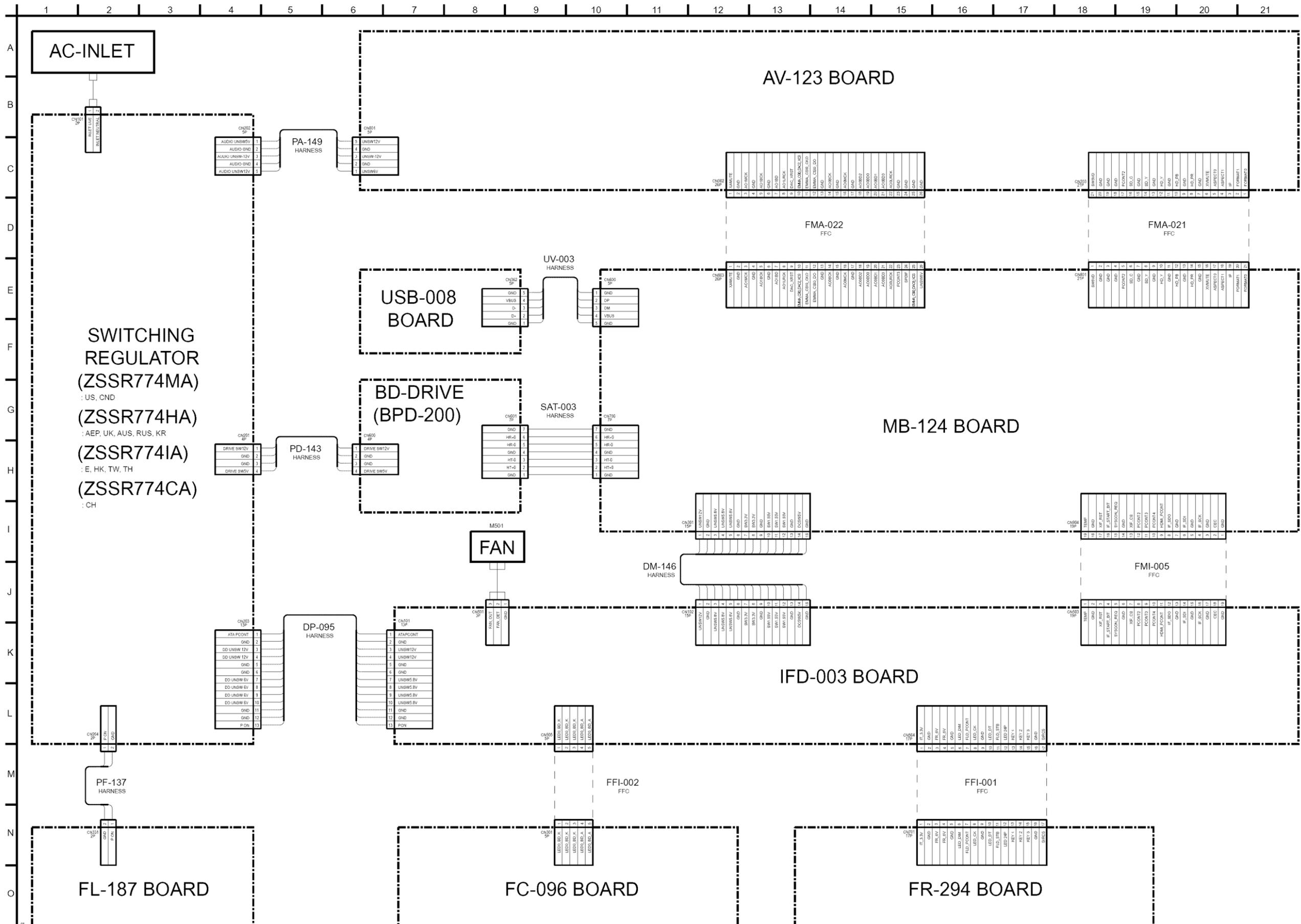
Note:

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

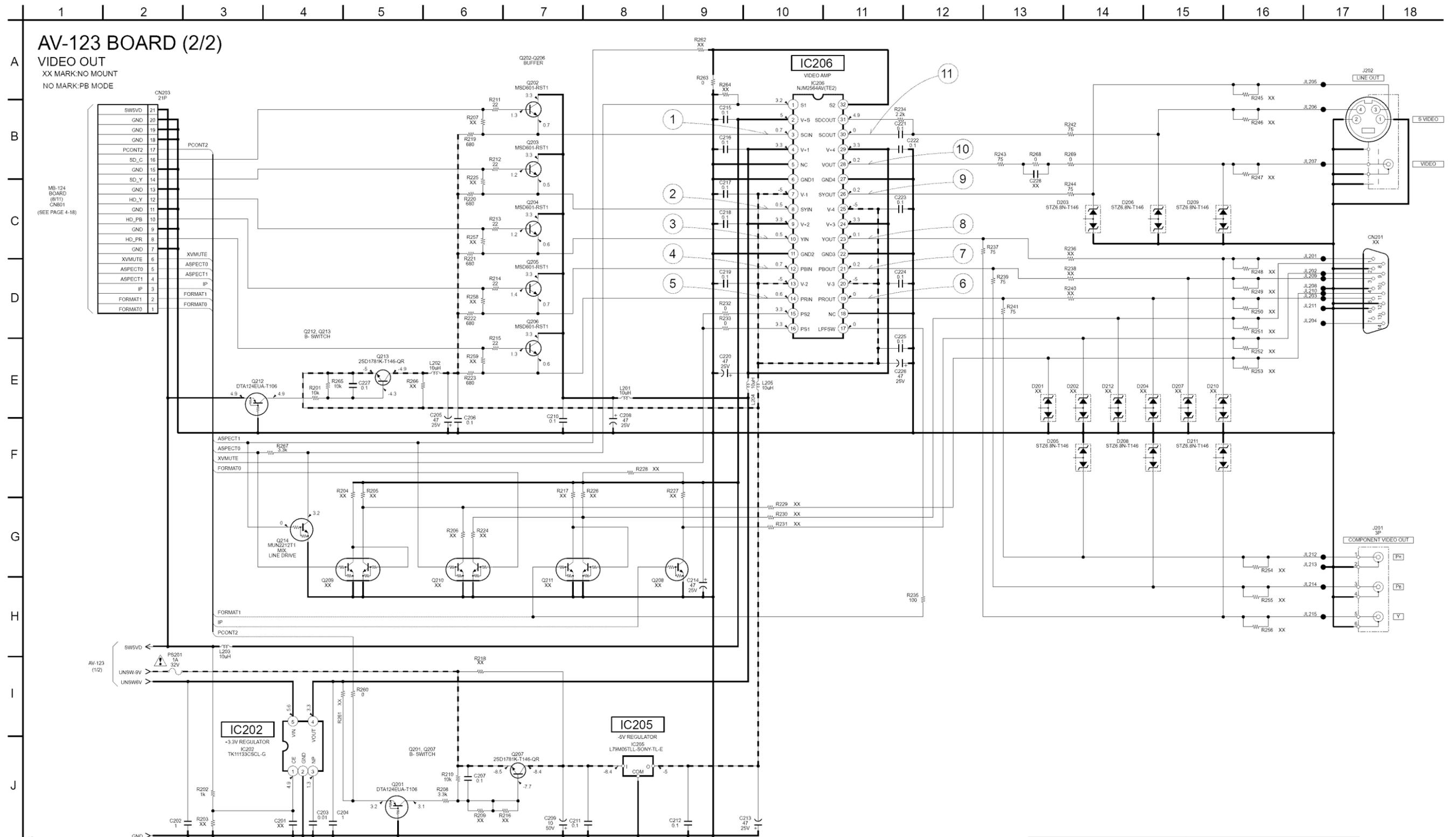
When indicating parts by reference number, please include the board name.

- Abbreviation
 - AUS : Australian model
 - CH : Chinese model
 - CND : Canadian model
 - HK : Hong Kong model
 - KR : Korea model
 - RUS : Russian model
 - TH : Thai model
 - TW : Taiwan model

4-2. FRAME SCHEMATIC DIAGRAM



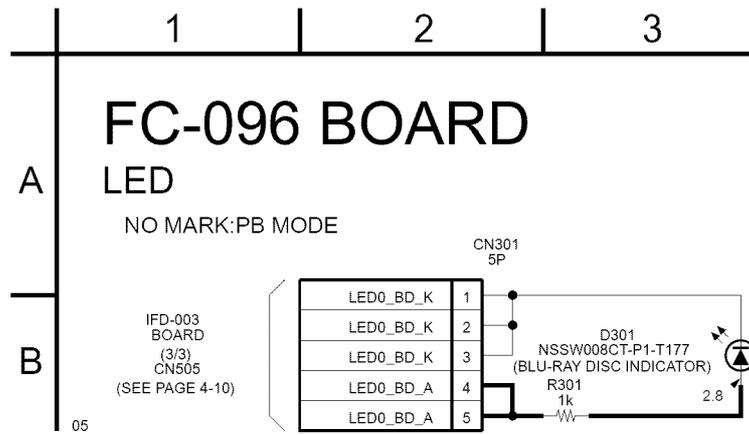
4-4. AV-123 BOARD (VIDEO OUT) SCHEMATIC DIAGRAM (2/2) • See page 5-2 for printed wiring board.
 - Ref. No.: AV-123 board; 20,000 series -



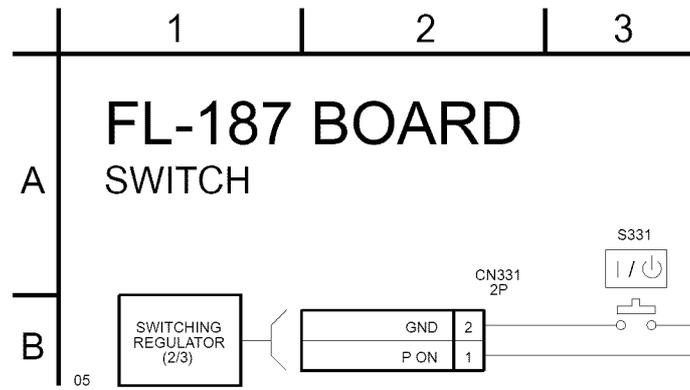
Note:
 The components identified with mark \triangle or dotted line with mark \triangle are critical for safety.
 Replace only with part number specified.

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

4-5. FC-096 BOARD (LED) SCHEMATIC DIAGRAM • See page 5-4 for printed wiring board.
 - Ref. No.: FC-096 board; 20,000 series -

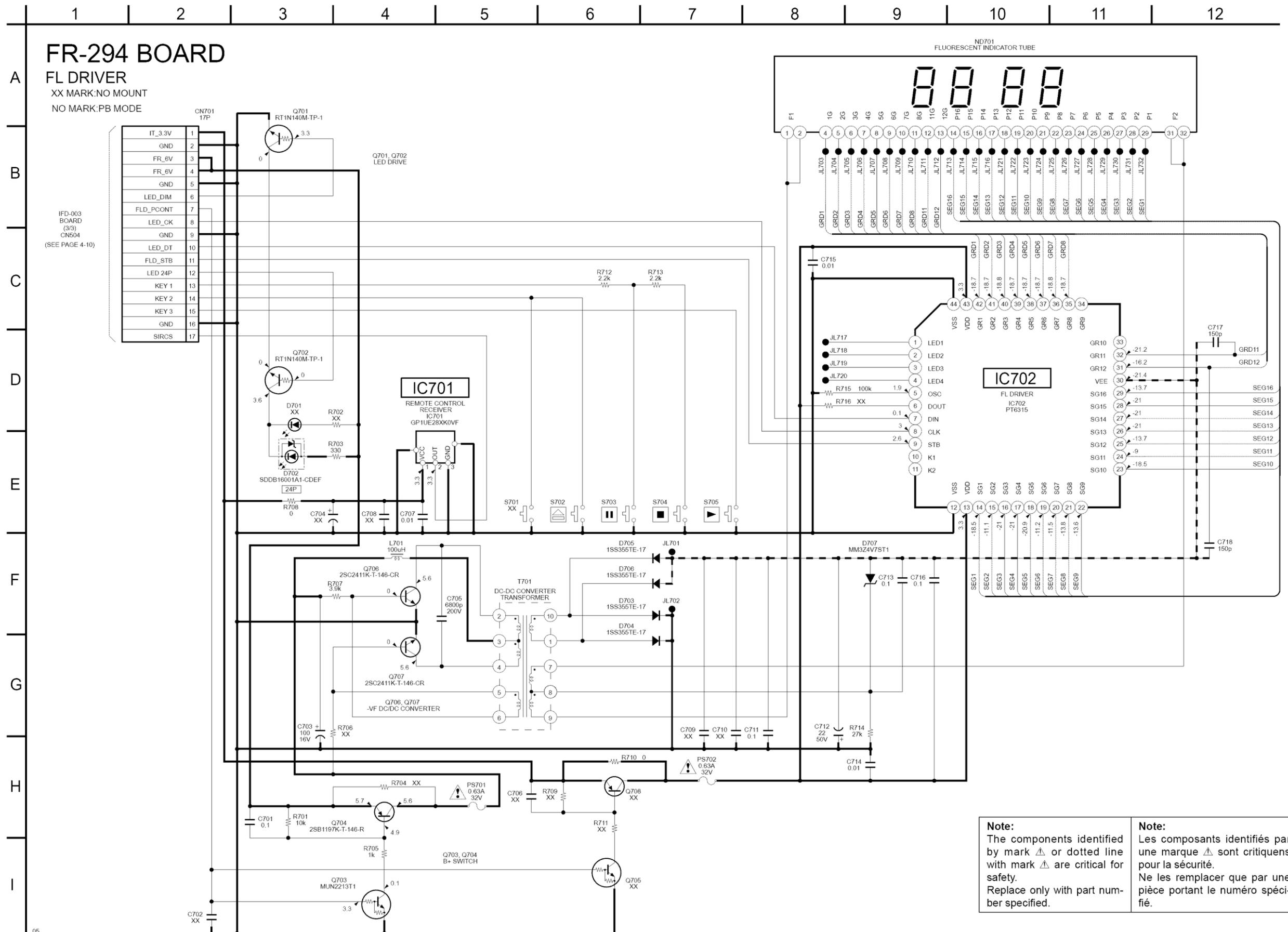


4-6. FL-187 BOARD (SWITCH) SCHEMATIC DIAGRAM • See page 5-5 for printed wiring board.
 - Ref. No.: FL-187 board; 20,000 series -



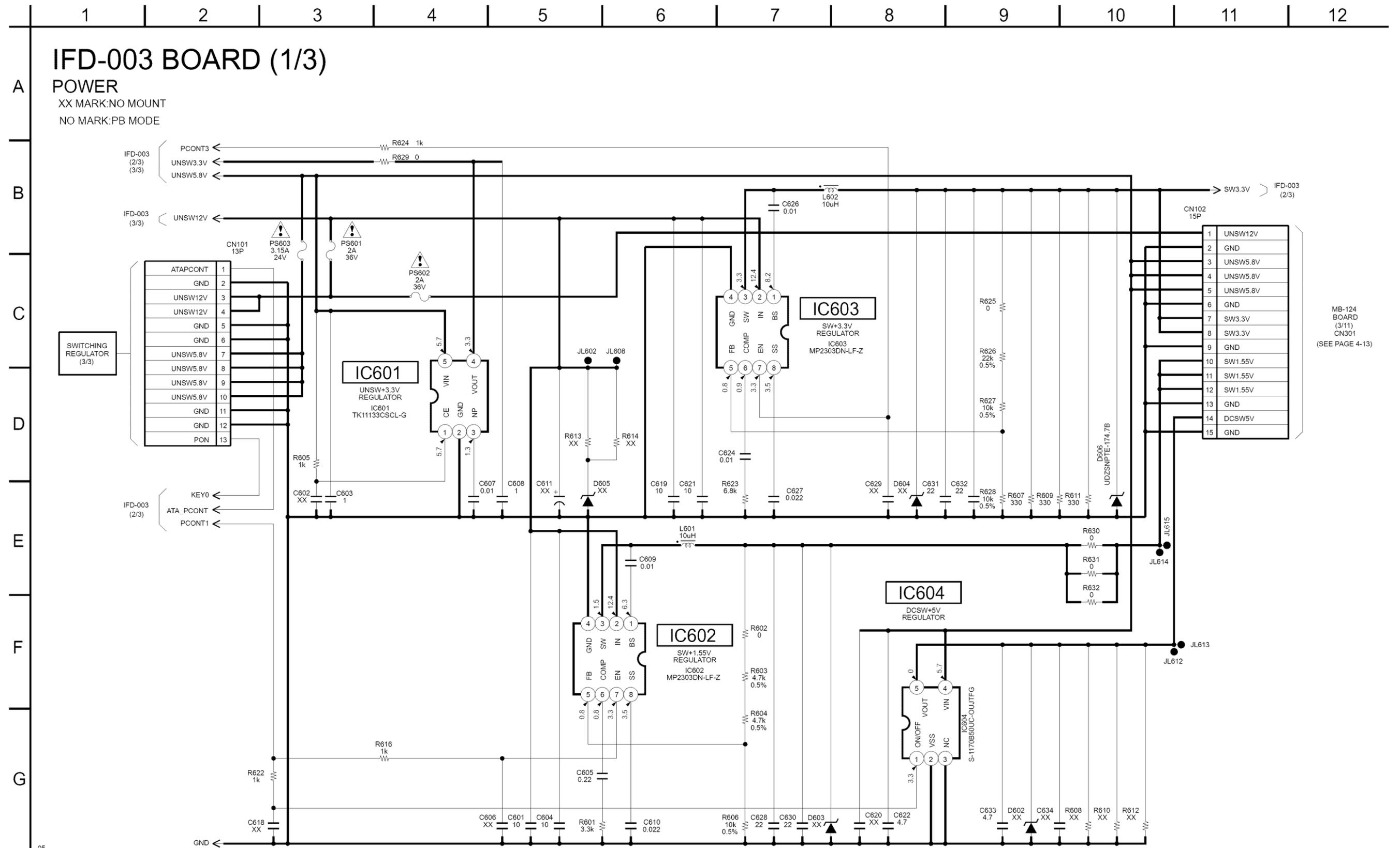
4-7. FR-294 BOARD (FL DRIVER) SCHEMATIC DIAGRAM • See page 5-6 for printed wiring board.

- Ref. No.: FR-294 board; 20,000 series -



4-8. IFD-003 BOARD (POWER) SCHEMATIC DIAGRAM (1/3) • See page 5-8 for printed wiring board.

- Ref. No.: IFD-003 board; 20,000 series -



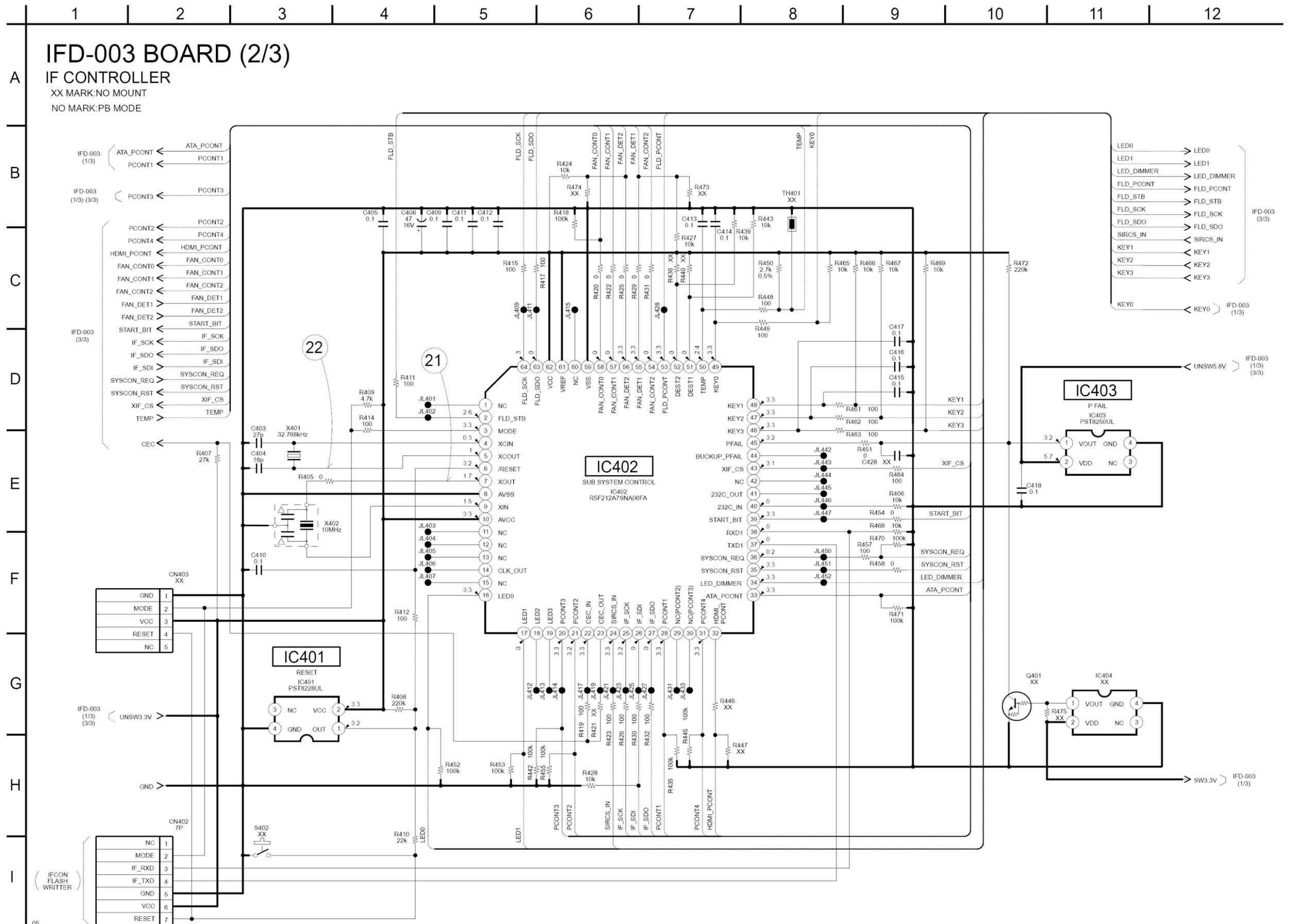
MB-124 BOARD (3/11) CN301 (SEE PAGE 4-13)

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.

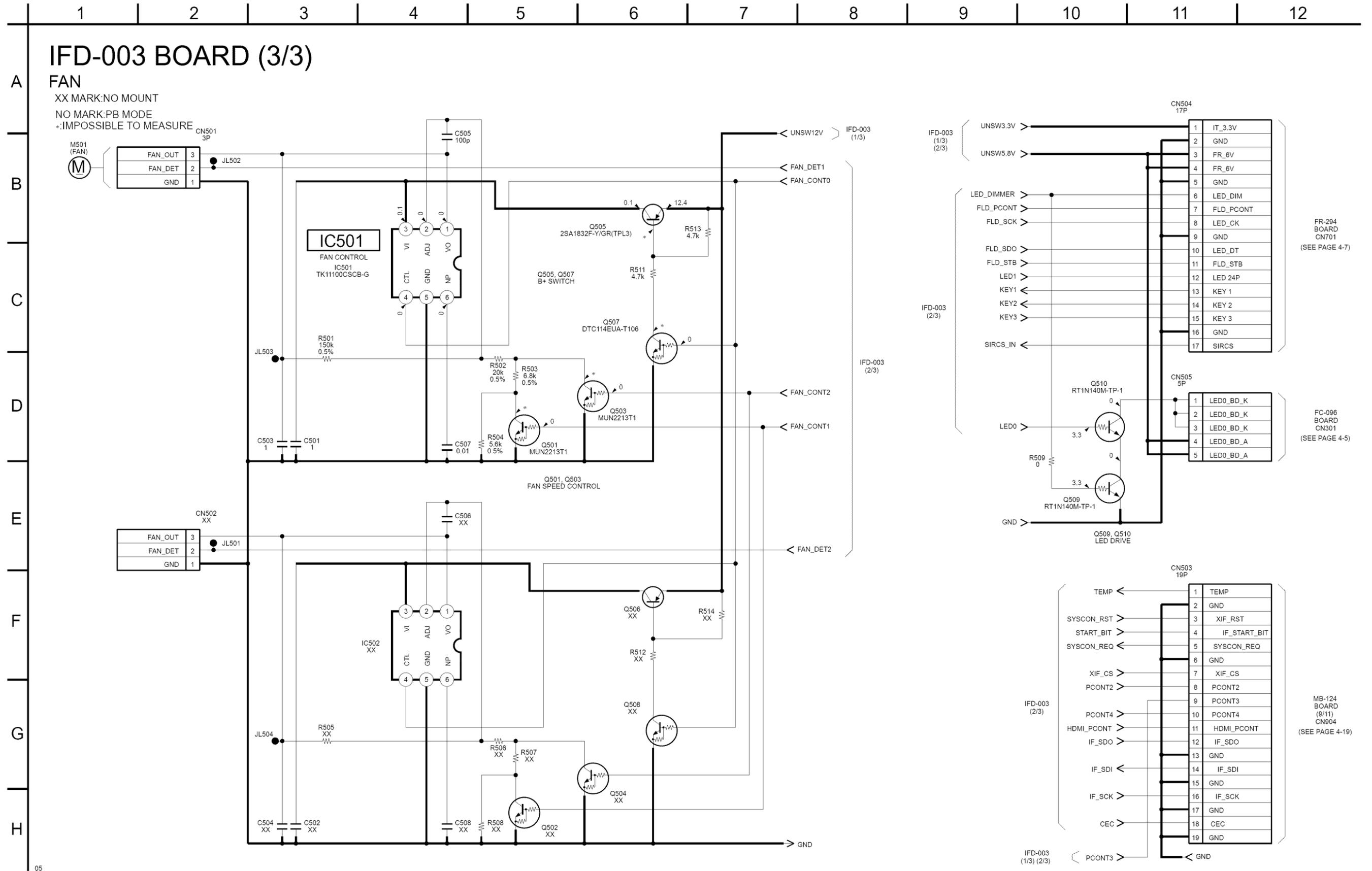
4-9. IFD-003 BOARD (IF CONTROLLER) SCHEMATIC DIAGRAM (2/3) • See page 5-8 for printed wiring board.

- Ref. No.: IFD-003 board; 20,000 series -



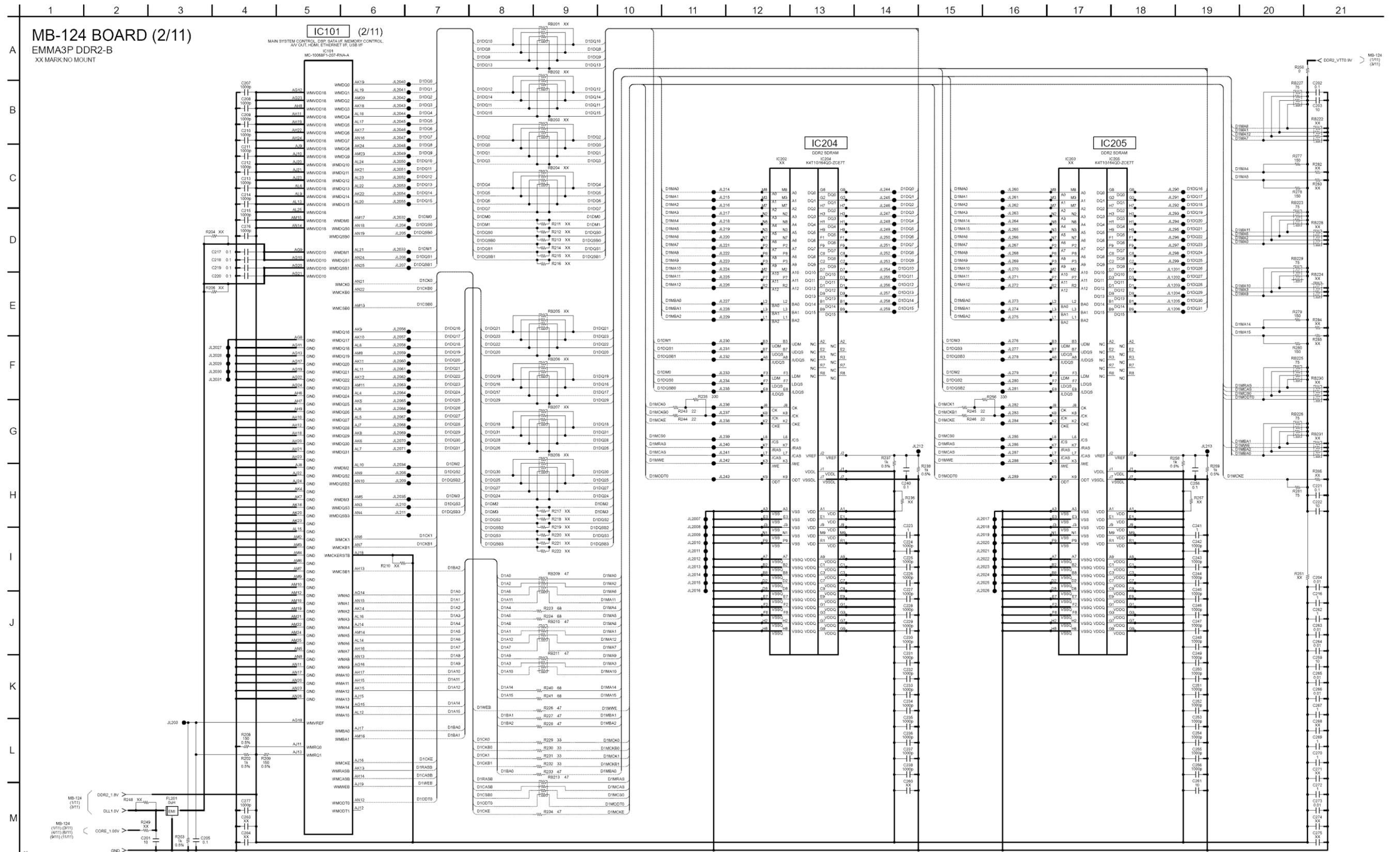
4-10. IFD-003 BOARD (FAN) SCHEMATIC DIAGRAM (3/3) • See page 5-8 for printed wiring board.

- Ref. No.: IFD-003 board; 20,000 series -



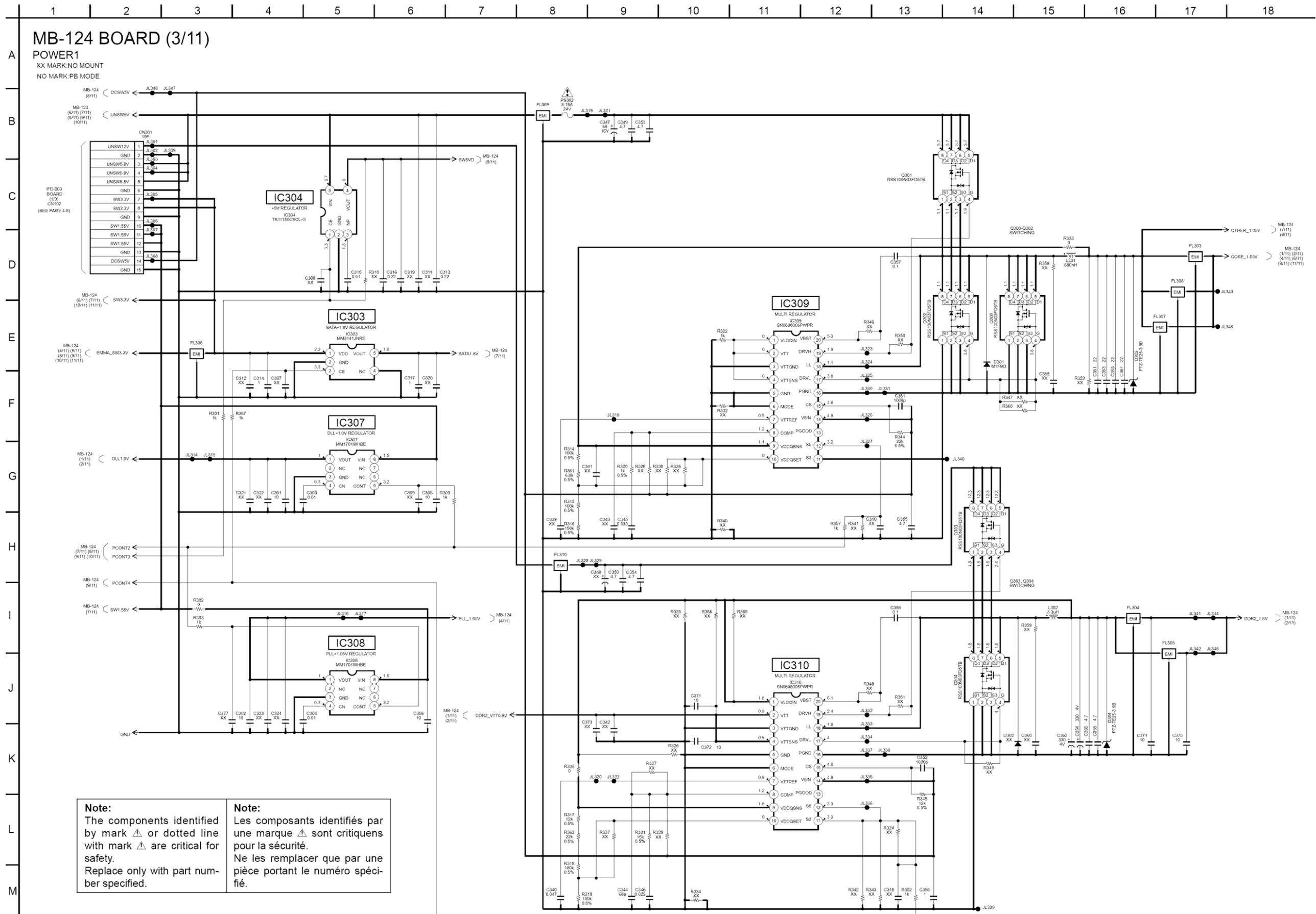
4-12. MB-124 BOARD (EMMA3P DDR2-B) SCHEMATIC DIAGRAM (2/11) • See page 5-10 for printed wiring board.

- Ref. No.: MB-124 board; 10,000 series -



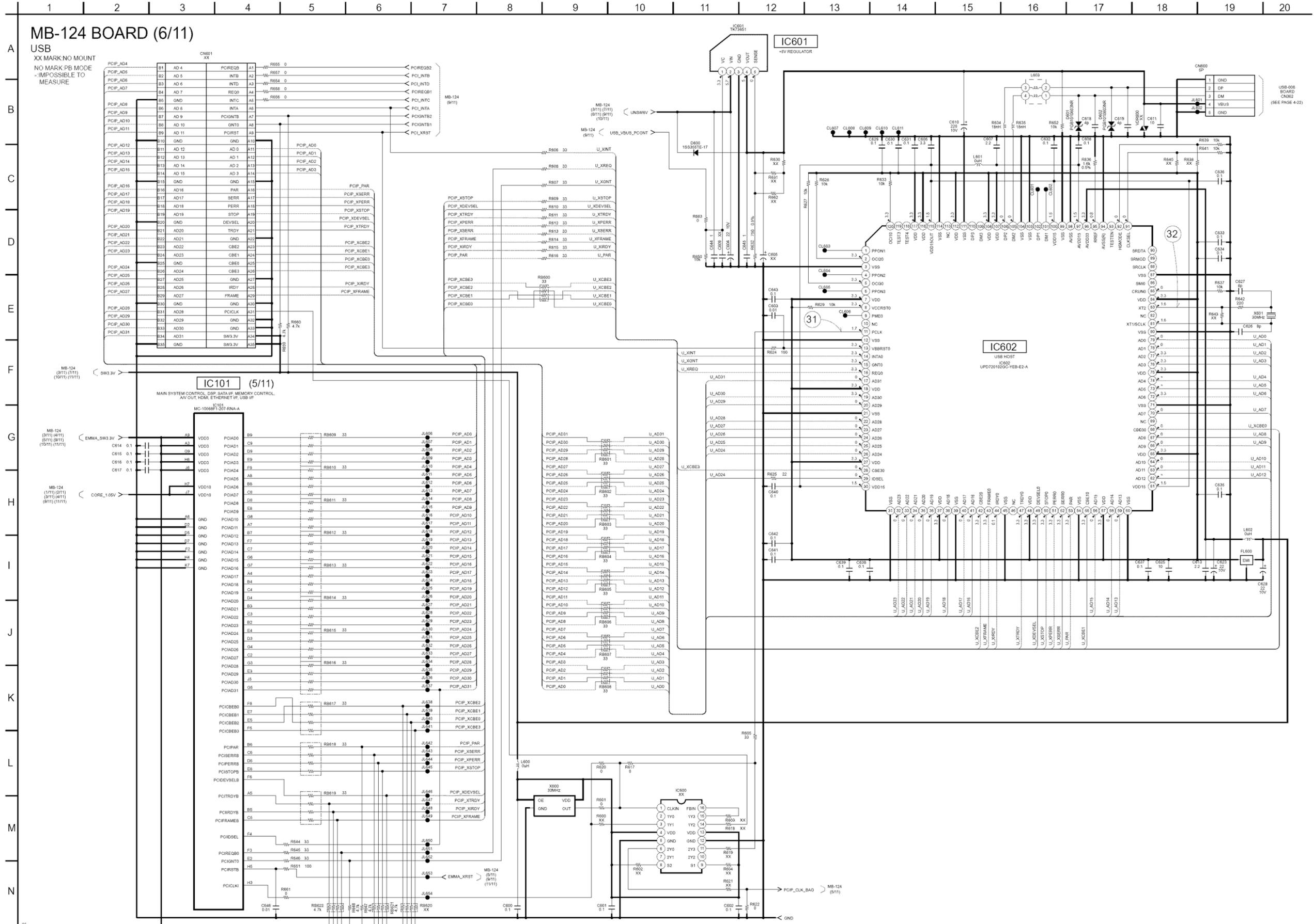
4-13. MB-124 BOARD (POWER1) SCHEMATIC DIAGRAM (3/11) • See page 5-10 for printed wiring board.

- Ref. No.: MB-124 board; 10,000 series -



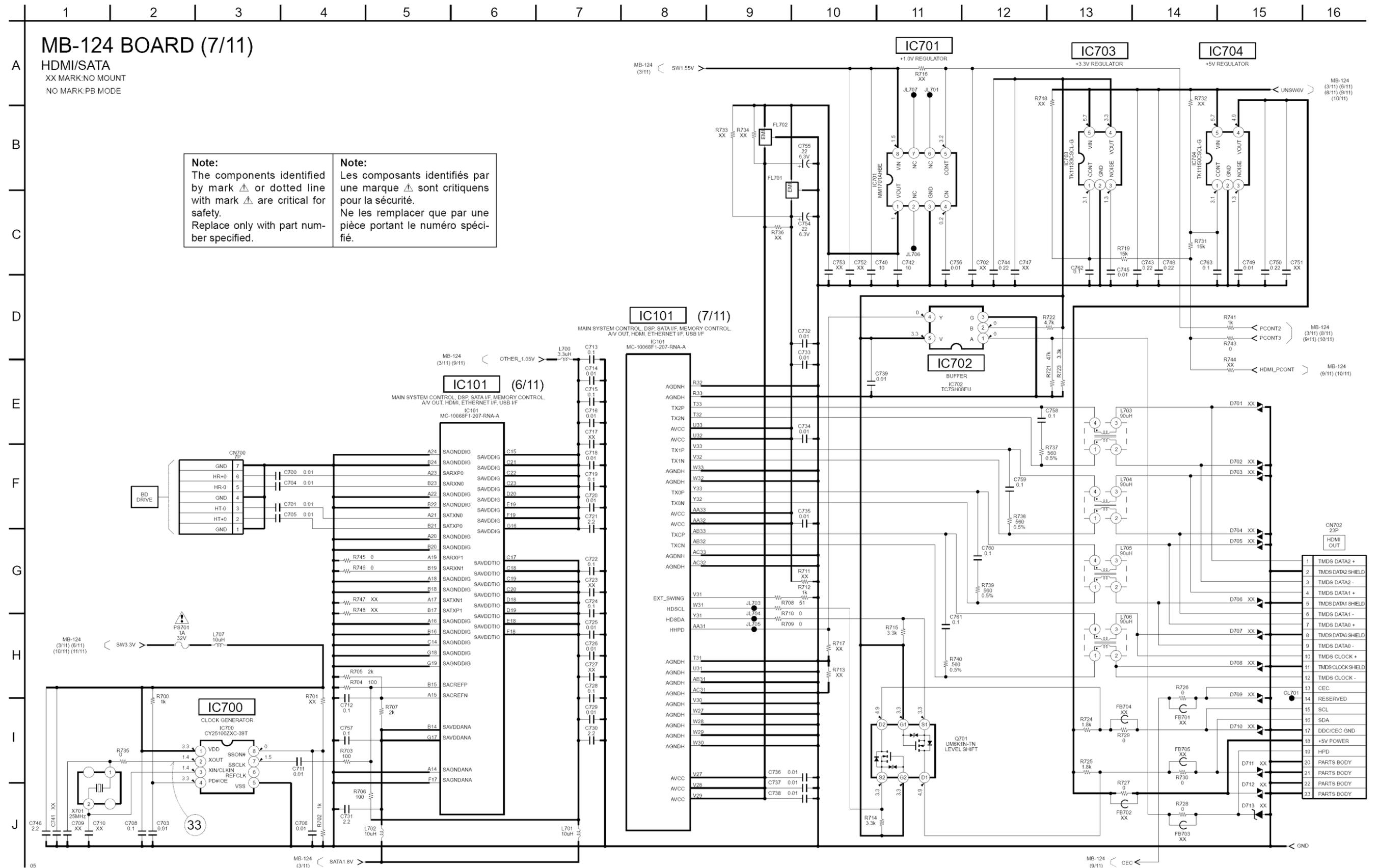
4-16. MB-124 BOARD (USB) SCHEMATIC DIAGRAM (6/11) • See page 5-10 for printed wiring board.

- Ref. No.: MB-124 board; 10,000 series -



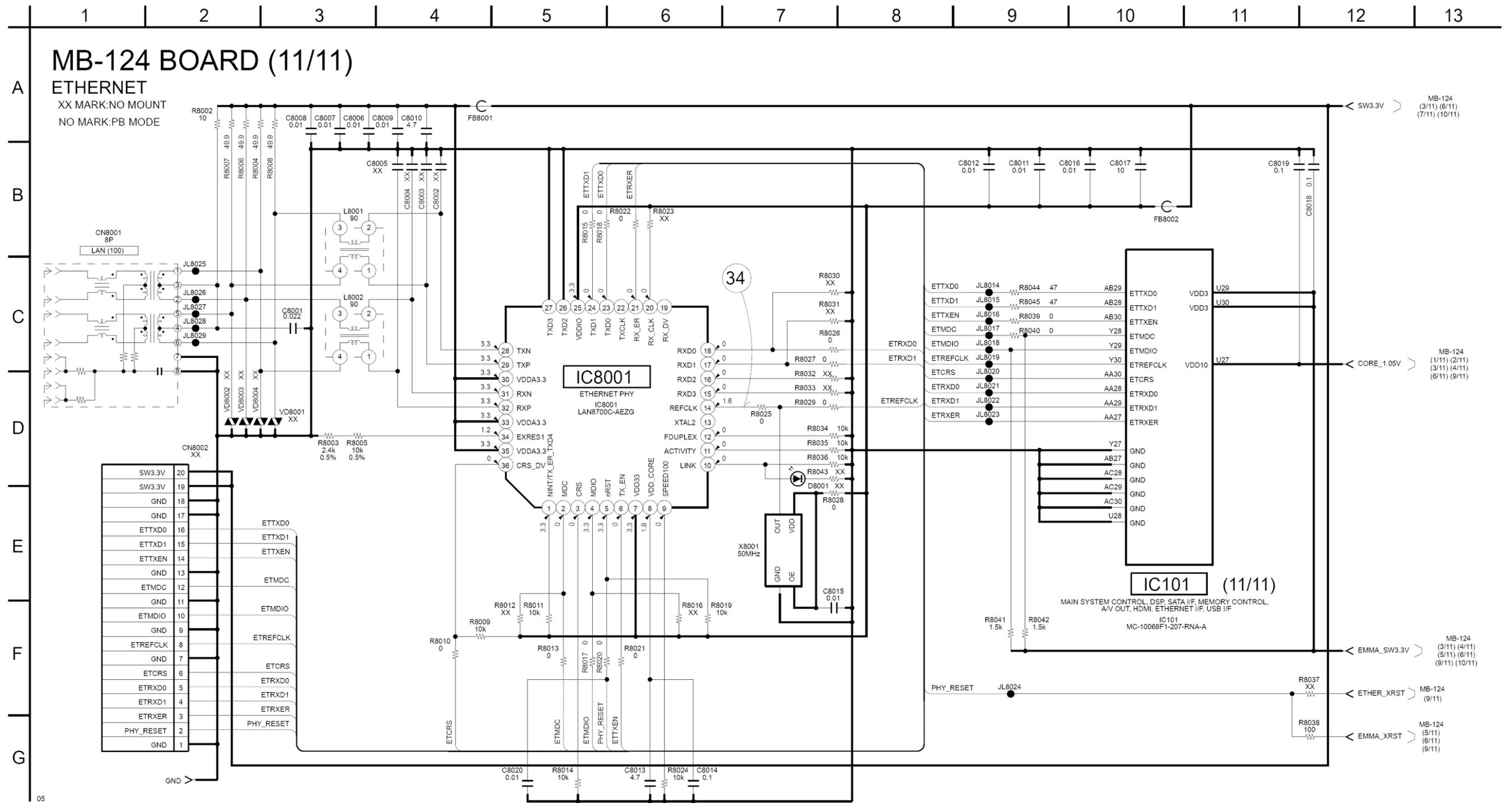
4-17. MB-124 BOARD (HDMI/SATA) SCHEMATIC DIAGRAM (7/11) • See page 5-10 for printed wiring board.

- Ref. No.: MB-124 board; 10,000 series -



4-21. MB-124 BOARD (ETHERNET) SCHEMATIC DIAGRAM (11/11) • See page 5-10 for printed wiring board.

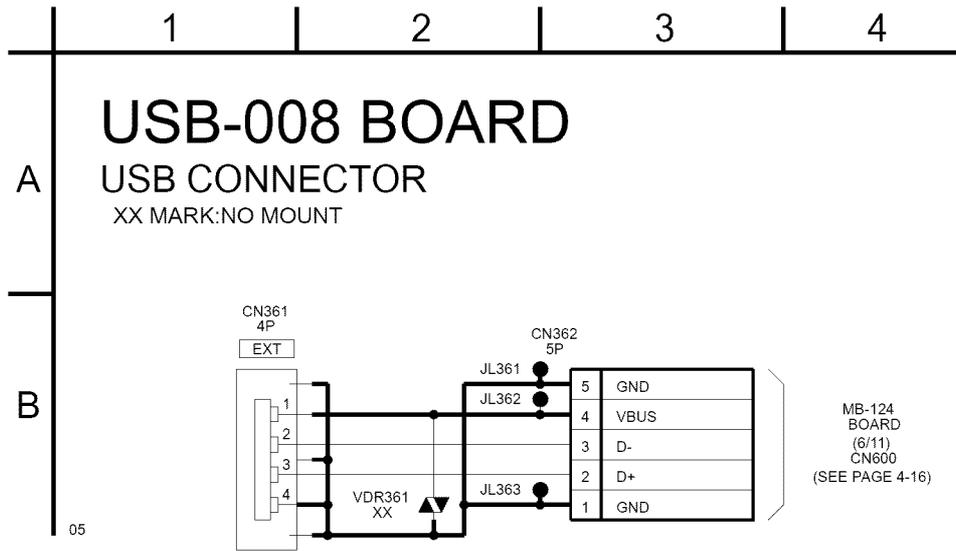
- Ref. No.: MB-124 board; 10,000 series -



4-22. USB-008 BOARD (USB CONNECTOR) SCHEMATIC DIAGRAM

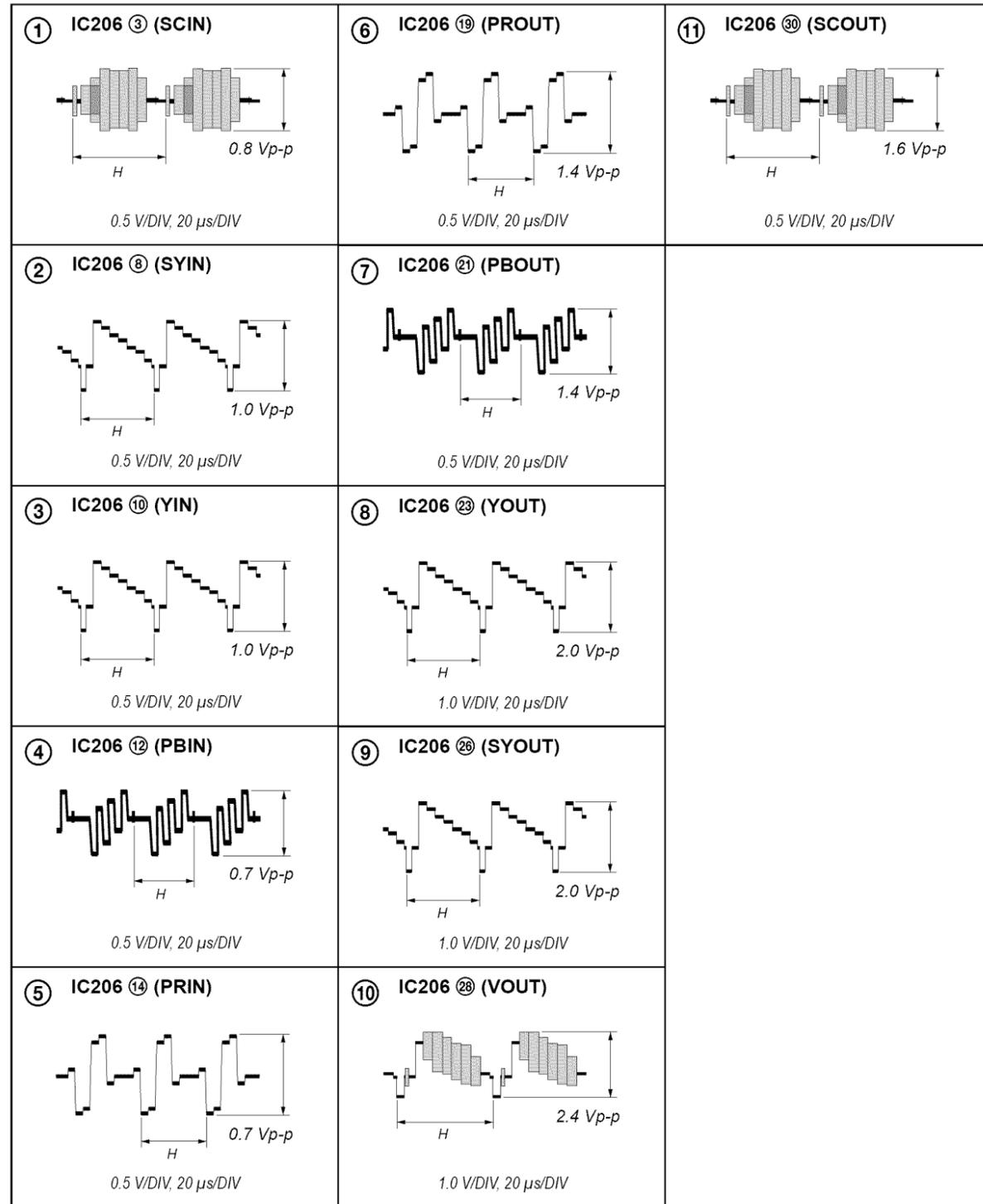
- Ref. No.: USB-008 board; 20,000 series -

- See page 5-12 for printed wiring board.

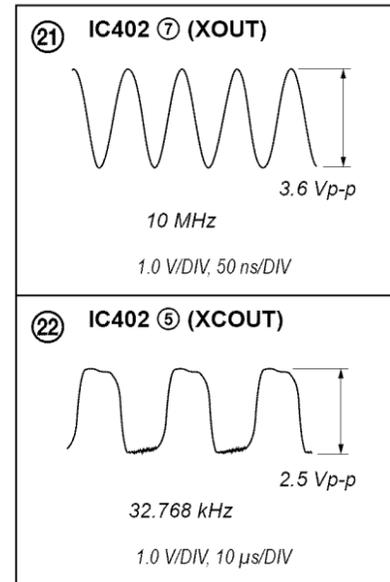


4-23. WAVEFORMS

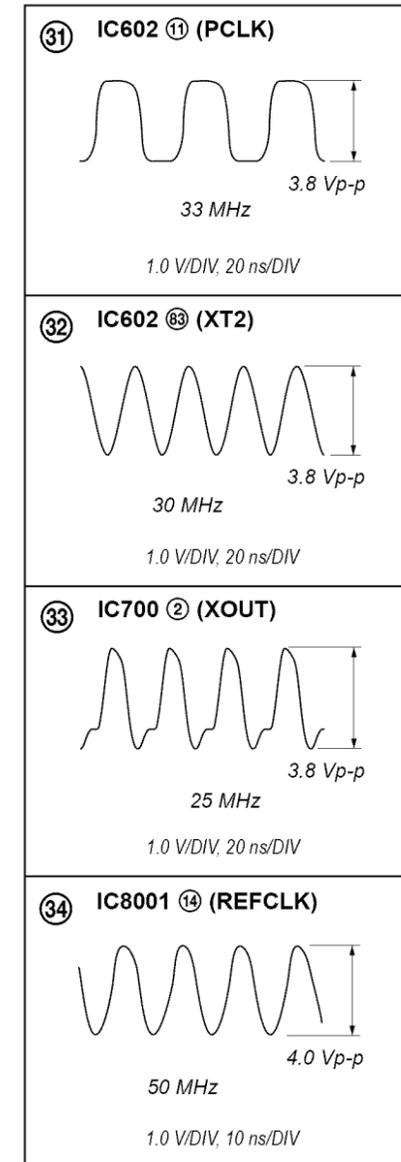
AV-123 BOARD



IFD-003 BOARD



MB-124 BOARD



SECTION 5 PRINTED WIRING BOARDS

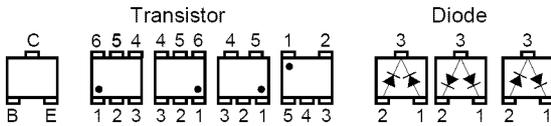
5-1. THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS

-  : Uses unleaded solders.
-  : Pattern from the side which enables seeing.
(The other layers' patterns are not indicated)

Caution:

Pattern face side: Parts on the pattern face side seen from (SIDE B) the pattern face are indicated.
 Parts face side: Parts on the parts face side seen from (SIDE A) the parts face are indicated.

- Through hole is omitted.
- There are few cases that the part printed on diagram isn't mounted in this model.
-  : panel designation
- Chip parts.



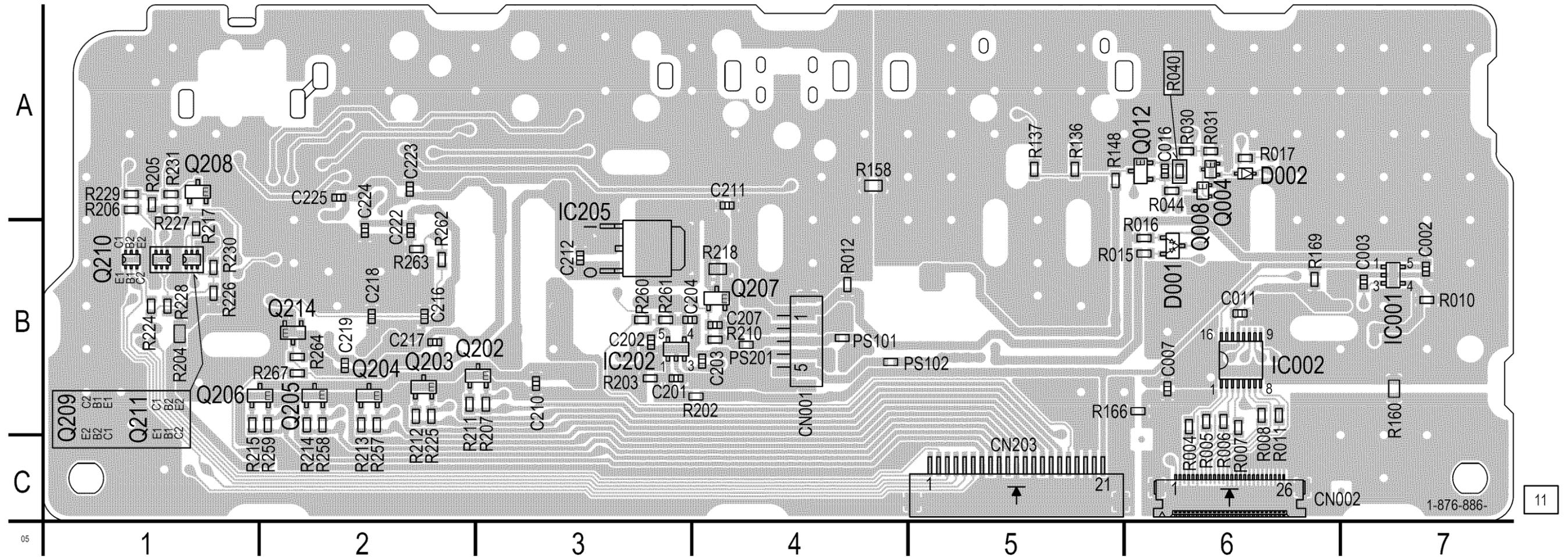
5-2. AV-123 BOARD (AUDIO/VIDEO OUT) PRINTED WIRING BOARD (SIDE A) • See page 2-6 for circuit boards location.

- Ref. No.: AV-123 board; 20,000 series -

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

 : Uses unleaded solder.

AV-123 BOARD (SIDE A)



AV-123 BOARD (SIDE A)

| | |
|-------|-----|
| CN203 | C-5 |
| D001 | B-6 |
| D002 | A-6 |
| IC001 | B-7 |
| IC002 | B-6 |
| IC202 | B-3 |
| IC205 | B-3 |
| Q004 | A-6 |
| Q008 | A-6 |
| Q012 | A-6 |
| Q202 | B-3 |
| Q203 | B-2 |
| Q204 | B-2 |
| Q205 | B-2 |
| Q206 | A-2 |
| Q207 | B-4 |
| Q214 | B-2 |

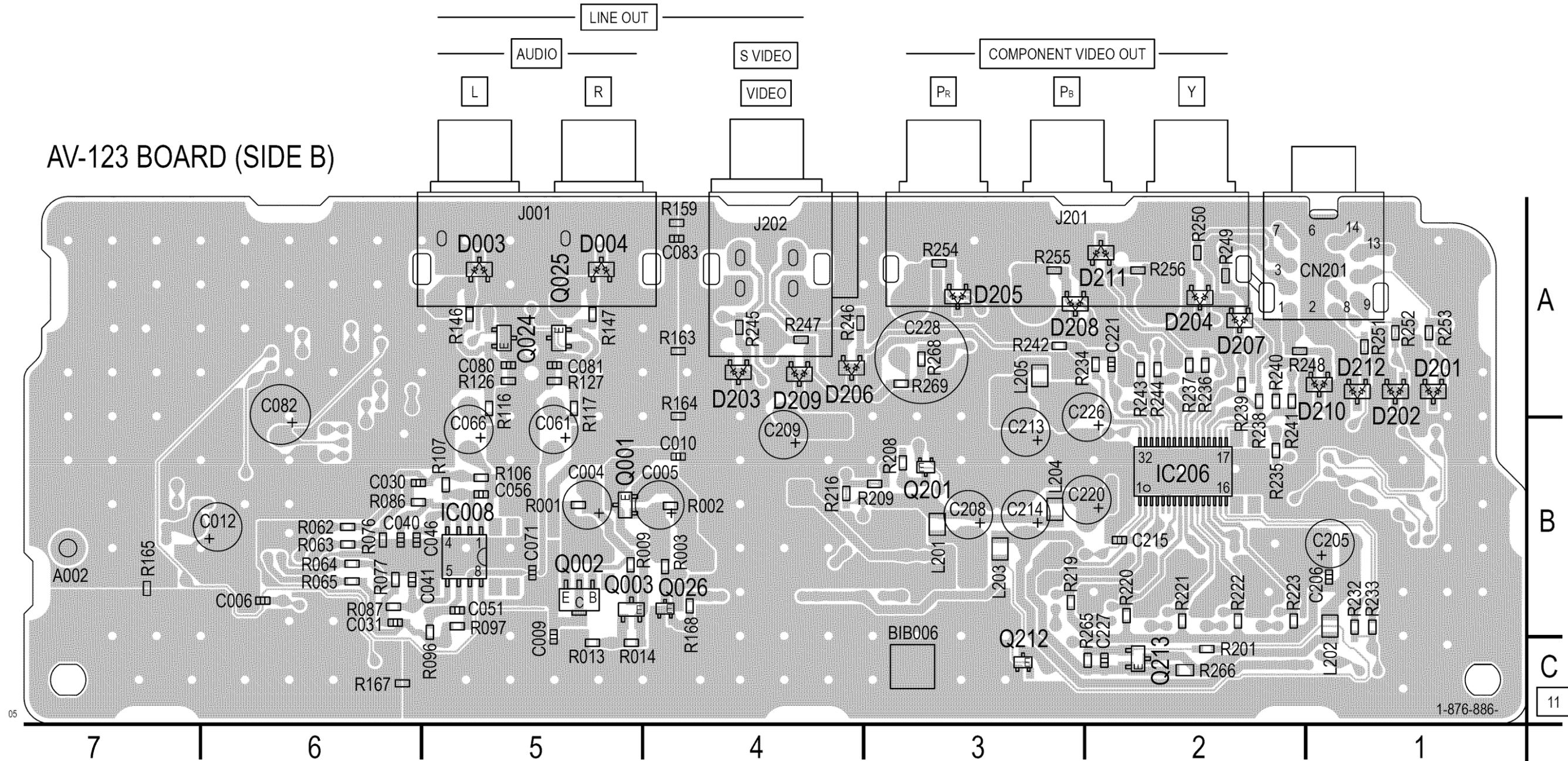
5-3. AV-123 BOARD (AUDIO/VIDEO OUT) PRINTED WIRING BOARD (SIDE B) • See page 2-6 for circuit boards location.

- Ref. No.: AV-123 board; 20,000 series -

 : Uses unleaded solder.

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

AV-123 BOARD (SIDE B)



AV-123 BOARD (SIDE B)

| | |
|-------|-----|
| D203 | A-4 |
| D205 | A-3 |
| D206 | A-4 |
| D208 | A-3 |
| D209 | A-4 |
| D211 | A-2 |
| IC008 | B-5 |
| IC206 | B-2 |
| Q001 | B-5 |
| Q002 | B-5 |
| Q003 | B-5 |
| Q024 | A-5 |
| Q025 | A-5 |
| Q026 | B-4 |
| Q201 | B-3 |
| Q212 | C-3 |
| Q213 | C-2 |

5-4. FC-096 BOARD (LED) PRINTED WIRING BOARD

- Ref. No.: FC-096 board; 20,000 series -

- See page 2-6 for circuit boards location.

 : Uses unleaded solder.

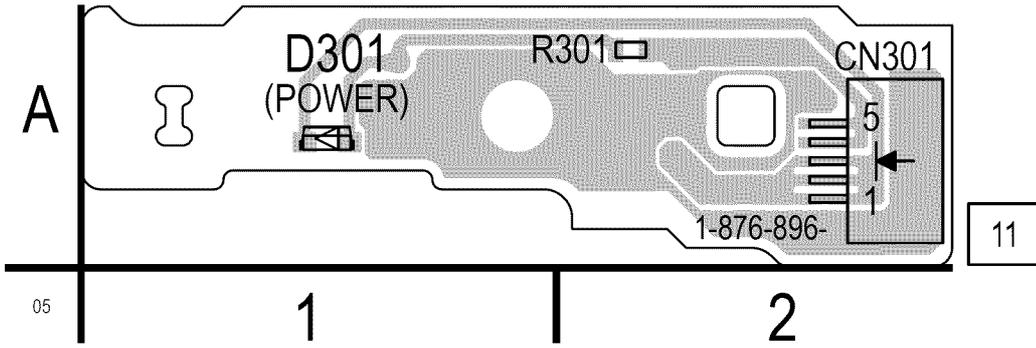
There are a few cases that the part isn't mounted in this model is printed on this diagram.

FC-096 BOARD (SIDE A)

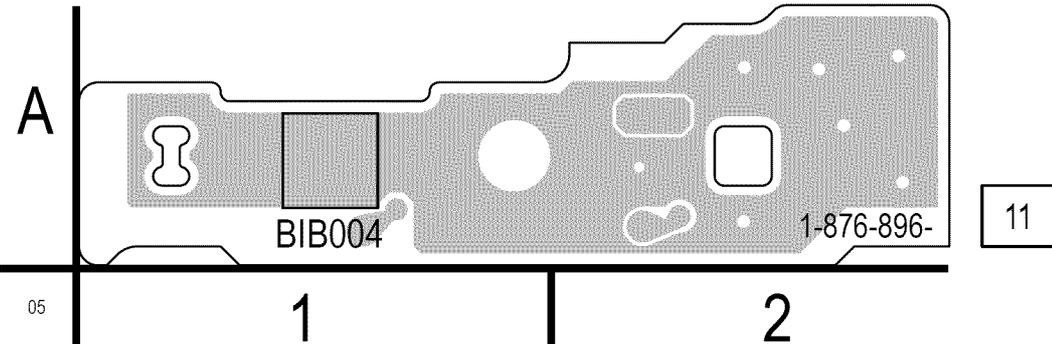
FC-096 BOARD (SIDE A)

CN301 A-2

D301 A-1



FC-096 BOARD (SIDE B)



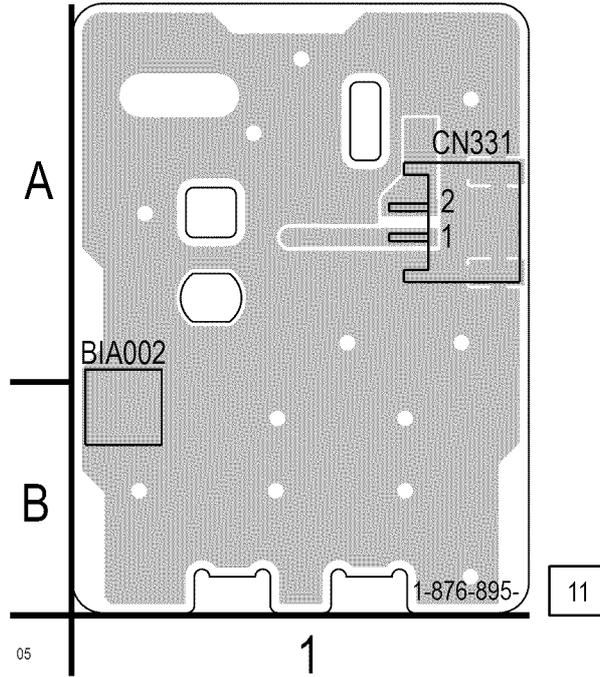
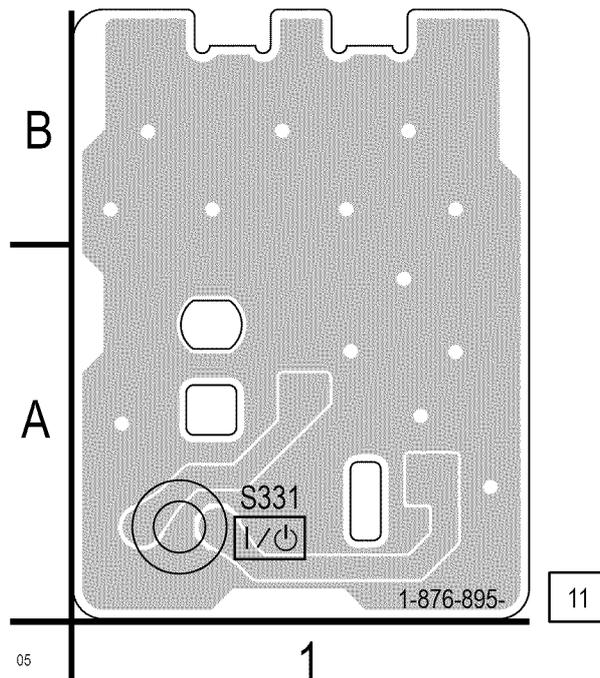
5-5. FL-187 BOARD (SWITCH) PRINTED WIRING BOARD

- Ref. No.: FL-187 board; 20,000 series -

- See page 2-6 for circuit boards location.

 : Uses unleaded solder.

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

FL-187 BOARD (SIDE A)**FL-187 BOARD (SIDE B)**

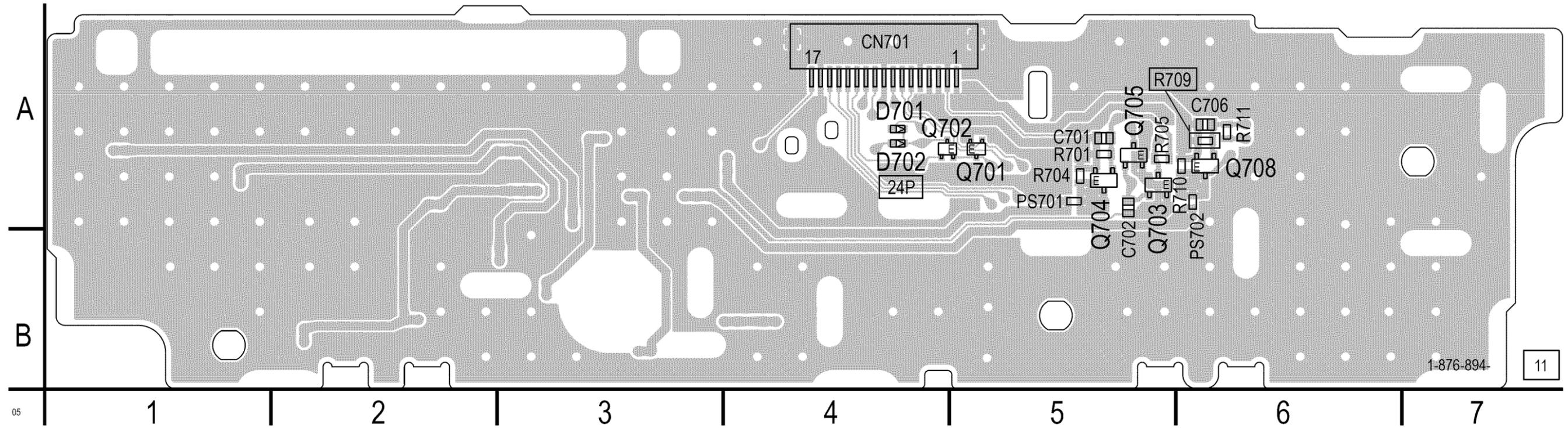
5-6. FR-294 BOARD (FL DRIVER) PRINTED WIRING BOARD (SIDE A) • See page 2-6 for circuit boards location.

- Ref. No.: FR-294 board; 20,000 series -

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

 : Uses unleaded solder.

FR-294 BOARD (SIDE A)



FR-294 BOARD (SIDE A)

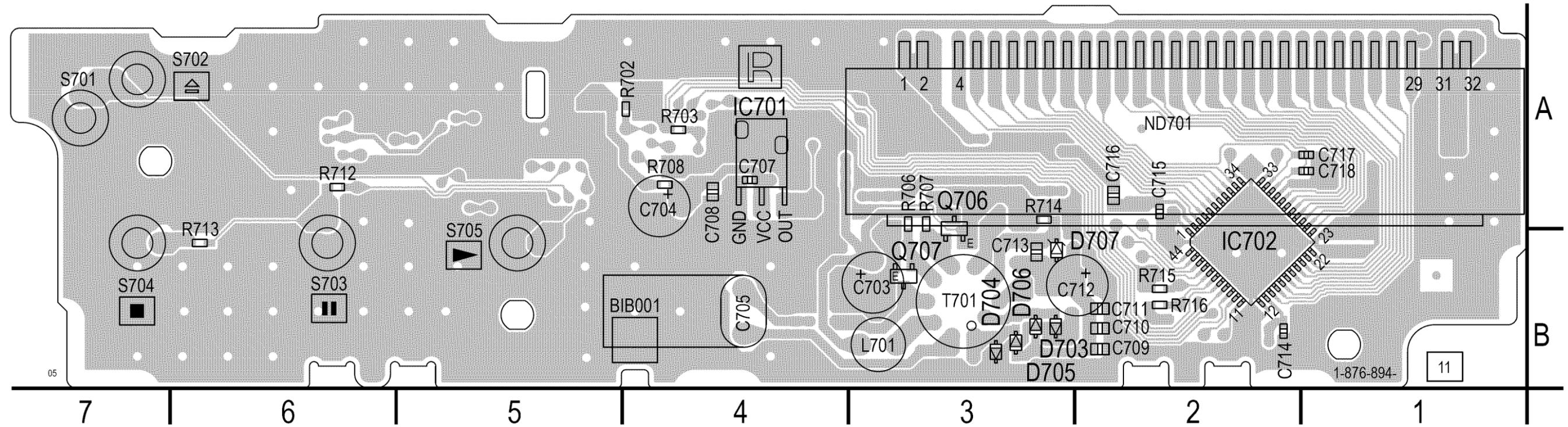
| | |
|-------|-----|
| CN701 | A-4 |
| Q701 | A-5 |
| Q702 | A-4 |
| Q703 | A-5 |
| Q704 | A-5 |

5-7. FR-294 BOARD (FL DRIVER) PRINTED WIRING BOARD (SIDE B) • See page 2-6 for circuit boards location.
 - Ref. No.: FR-294 board; 20,000 series -

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

 : Uses unleaded solder.

FR-294 BOARD (SIDE B)



FR-294 BOARD (SIDE B)

| | |
|-------|-----|
| D703 | B-3 |
| D704 | B-3 |
| D705 | B-3 |
| D706 | B-3 |
| D707 | B-3 |
| IC701 | A-4 |
| IC702 | B-2 |
| Q706 | A-3 |
| Q707 | B-3 |

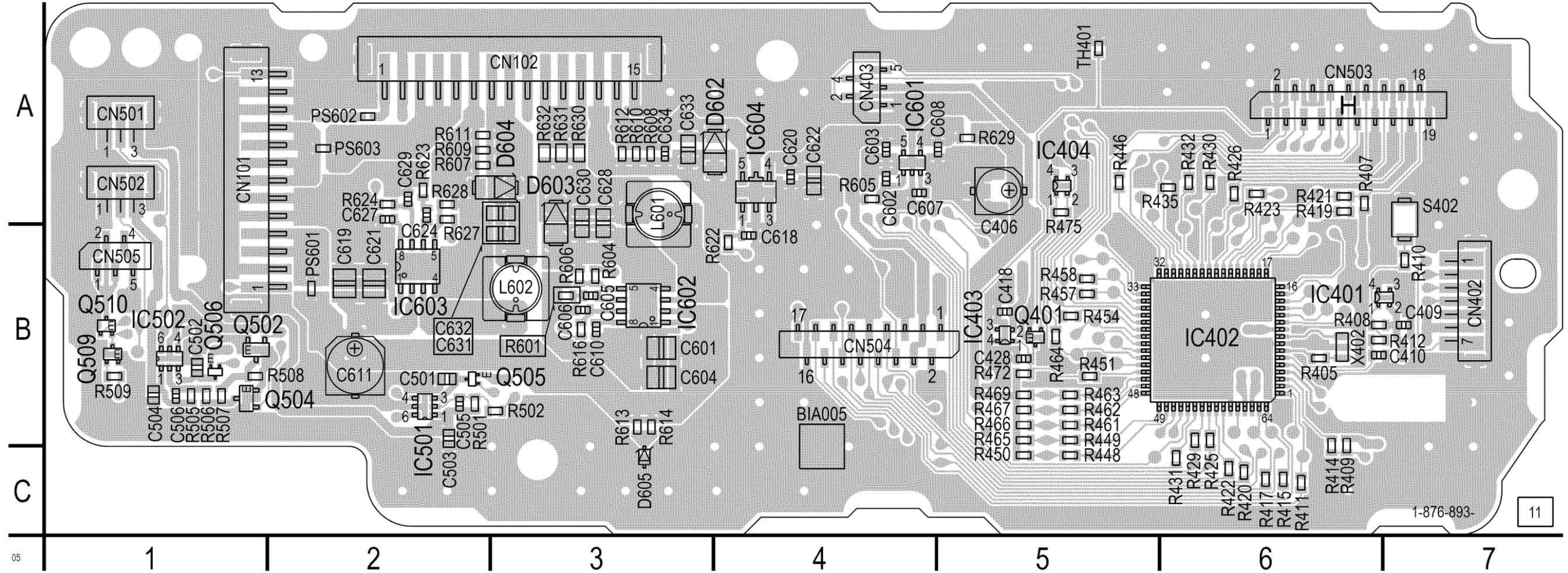
5-8. IFD-003 BOARD (IF CONTROLLER) PRINTED WIRING BOARD (SIDE A) • See page 2-6 for circuit boards location.

- Ref. No.: IFD-003 board; 20,000 series -

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

 : Uses unleaded solder.

IFD-003 BOARD (SIDE A)



IFD-003 BOARD (SIDE A)

| | |
|-------|-----|
| CN101 | A-1 |
| CN102 | A-3 |
| CN402 | B-7 |
| CN501 | A-1 |
| CN503 | A-6 |
| CN504 | B-4 |
| IC402 | B-6 |
| IC501 | B-2 |
| IC601 | A-4 |
| IC602 | B-3 |
| IC603 | B-2 |
| IC604 | A-4 |
| Q505 | B-2 |
| Q509 | B-1 |
| Q510 | B-1 |

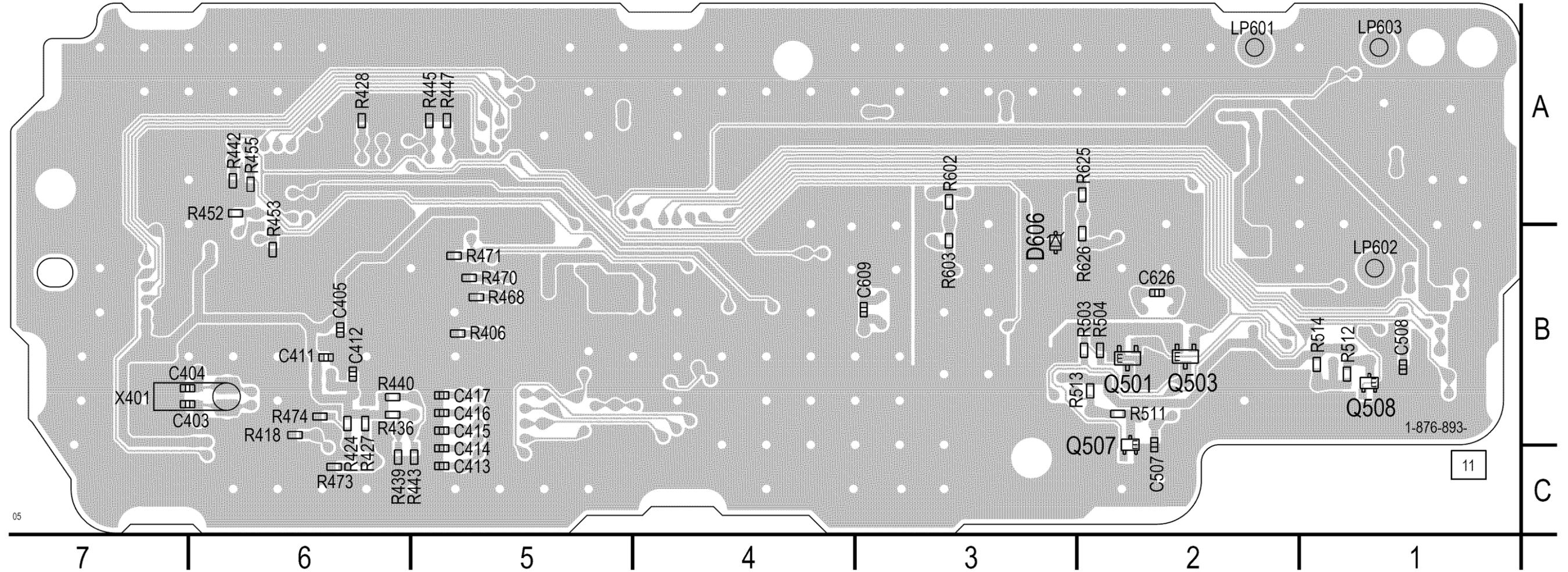
5-9. IFD-003 BOARD (IF CONTROLLER) PRINTED WIRING BOARD (SIDE B) • See page 2-6 for circuit boards location.

- Ref. No.: IFD-003 board; 20,000 series -

 : Uses unleaded solder.

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

IFD-003 BOARD (SIDE B)



IFD-003 BOARD (SIDE B)

| | |
|------|-----|
| D606 | B-3 |
| Q501 | B-2 |
| Q503 | B-2 |
| Q507 | C-2 |

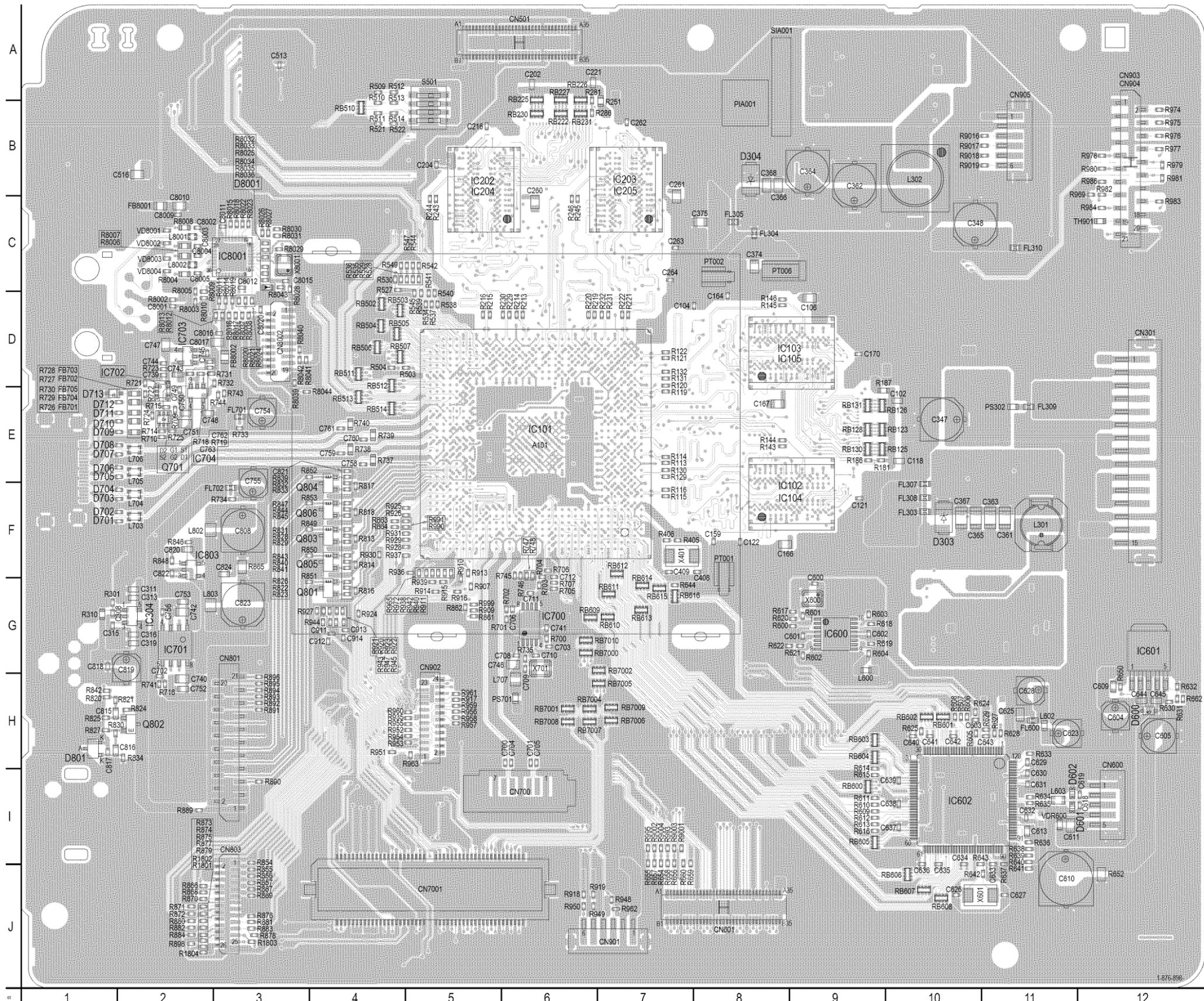
5-10. MB-124 BOARD (MAIN) PRINTED WIRING BOARD (SIDE A) • See page 2-6 for circuit boards location.

- Ref. No.: MB-124 board; 10,000 series -

 : Uses unleaded solder.

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

MB-124 BOARD (SIDE A)



MB-124 BOARD (SIDE A)

- CN301 E-12
- CN700 I-6
- CN901 J-7
- CN904 B-12
- D303 F-10
- D304 B-8
- D600 H-12
- D601 I-11
- D602 I-11
- IC304 G-2
- IC702 E-2
- IC703 D-2
- IC704 E-2
- IC803 F-2
- Q701 E-2
- Q801 G-4
- Q802 H-2
- Q803 F-4
- Q804 F-4
- Q805 F-4
- Q806 F-4

5-12. USB-008 BOARD (USB CONNECTOR) PRINTED WIRING BOARD

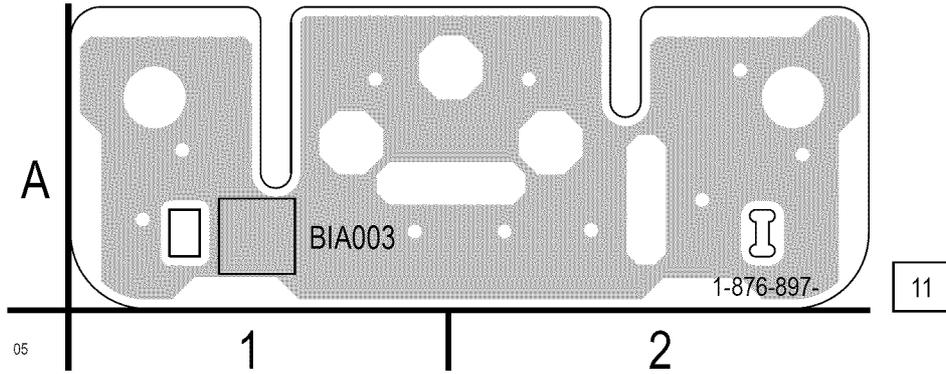
- Ref. No.: USB-008 board; 20,000 series -

- See page 2-6 for circuit boards location.

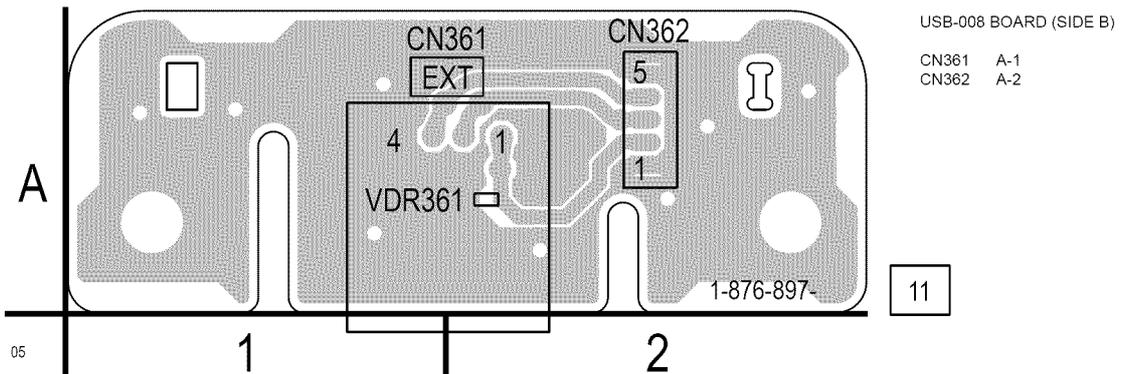
 : Uses unleaded solder.

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

USB-008 BOARD (SIDE A)



USB-008 BOARD (SIDE B)



SECTION 6

IC PIN FUNCTION DESCRIPTION

6-1. MAIN SYSTEM CONTROL PIN FUNCTION (MB-124 BOARD IC101: MC-10068F1-207-RNA-A)

| Pin No. | Name | I/O | Description |
|---------|----------|-----|---|
| A1 | VOID | - | This pin is not ball. |
| A2 | VOID | - | This pin is not ball. |
| A3 | VDD3 | - | 3.3V supply (I/O buffers) |
| A4 | PCIAD17 | I/O | PCI Address Data |
| A5 | PCITRDYB | I/O | PCI Target Ready |
| A6 | GND | - | Ground for digital and DDR2 SDRAM |
| A7 | PCIAD11 | I/O | PCI Address Data |
| A8 | PCIAD5 | I/O | PCI Address Data |
| A9 | VDD3 | - | 3.3V supply (I/O buffers) |
| A10 | GPIO58 | I/O | VODY6: Digital Video Y Data Output |
| A11 | GPIO68 | I/O | VODC6: Digital Video Cb/Cr Data Output |
| A12 | GPIO76 | I/O | AOHBD1: Audio Data output for External HDMI |
| A13 | GND | - | Ground for digital and DDR2 SDRAM |
| A14 | SAGNDANA | - | Analog Ground for Serial ATA |
| A15 | SACREFN | I | SATA Clock Negative Input (0.9V) |
| A16 | SAGNDDIG | - | Digital Ground for Serial ATA |
| A17 | SATXN1 | O | SATA Transport negative port-1 (not used) |
| A18 | SAGNDDIG | - | Digital Ground for Serial ATA |
| A19 | SARXP1 | I | SATA Receiver positive port-1 (not used) |
| A20 | SAGNDDIG | - | Digital Ground for Serial ATA |
| A21 | SATXN0 | O | SATA Transport negative port-0 |
| A22 | SAGNDDIG | - | Digital Ground for Serial ATA |
| A23 | SARXP0 | I | SATA Receiver positive port-0 |
| A24 | SAGNDDIG | - | Digital Ground for Serial ATA |
| A25 | GPIO20 | O | ASPECT0 (4:3="0" 16:9, 4:3LB="1") |
| A26 | GND | - | Ground for digital and DDR2 SDRAM |
| A27 | GPIO14 | O | ITREQ (Communication Request for I/Con) |
| A28 | GPIO4 | I | No use (Fixed at "L") |
| A29 | EJTCK | I | JTAG I/F_0 Clock Input |
| A30 | EJTRSTB | I | JTAG I/F_0 Reset Input |
| A31 | EJDINT | I | JTAG I/F_0 debug interrupt |
| A32 | VOID | - | This pin is not ball. |
| A33 | VOID | - | This pin is not ball. |
| B1 | VOID | - | This pin is not ball. |
| B2 | PCIAD23 | I/O | PCI Address Data |
| B3 | PCIAD21 | I/O | PCI Address Data |
| B4 | PCIAD18 | I/O | PCI Address Data |
| B5 | PCIIRDYB | I/O | PCI Initiator Ready |
| B6 | PCIPAR | I/O | PCI PAR Signal |
| B7 | PCIAD12 | I/O | PCI Address Data |
| B8 | PCIAD6 | I/O | PCI Address Data |
| B9 | PCIAD0 | I/O | PCI Address Data |
| B10 | GPIO52 | I/O | VODY0: Digital Video Y Data Output |
| B11 | GPIO56 | I/O | VODY4: Digital Video Y Data Output |
| B12 | GPIO70 | I/O | VODC8: Digital Video Cb/Cr Data Output |
| B13 | GPIO81 | I/O | Not in Use. (Pull-down) |
| B14 | SAVDDANA | - | 1.8V supply (Serial ATA analog VDD) |
| B15 | SACREFP | I | SATA Clock Positive Input |
| B16 | SAGNDDIG | - | Digital Ground for Serial ATA |
| B17 | SATXP1 | O | SATA Transport positive port-1 (not used) |
| B18 | SAGNDDIG | - | Digital Ground for Serial ATA |
| B19 | SARXN1 | I | SATA Receiver Negative port-1 (not used) |
| B20 | SAGNDDIG | - | Digital Ground for Serial ATA |
| B21 | SATXP0 | O | SATA Transport Positive port-0 |
| B22 | SAGNDDIG | - | Digital Ground for Serial ATA |
| B23 | SARXN0 | I | SATA Receiver Negative port-0 |
| B24 | SAGNDDIG | - | Digital Ground for Serial ATA |
| B25 | GPIO18 | O | XVMUTE (Video Mute ON="0") |
| B26 | GPIO19 | O | FORMAT1 (480="0" 720,1080="1") |
| B27 | GPIO9 | O | PCI_XRST (PCI bus reset) |

| Pin No. | Name | I/O | Description |
|---------|-----------|-----|---|
| B28 | GPIO10 | I | EMMA_DIPSW0 (Fixed at "H") |
| B29 | EJTMS | I | JTAG I/F_0 Mode Set |
| B30 | EJTDO | O | JTAG I/F_0 Data Output |
| B31 | EJTDI | I | JTAG I/F_0 Data Input |
| B32 | ATX | O | SPDIF output (Optical and coaxial terminal output signal) |
| B33 | VOID | - | This pin is not ball. |
| C1 | GND | - | Ground for digital and DDR2 SDRAM |
| C2 | PCIAD27 | I/O | PCI Address Data |
| C3 | PCIAD22 | I/O | PCI Address Data |
| C4 | PCIAD19 | I/O | PCI Address Data |
| C5 | PCIFRAMEB | I/O | PCI Cycle Frame |
| C6 | PCISERRB | I/O | PCI System Error |
| C7 | PCIAD14 | I/O | PCI Address Data |
| C8 | PCIAD7 | I/O | PCI Address Data |
| C9 | PCIAD1 | I/O | PCI Address Data |
| C10 | GPIO49 | I/O | VOCLK: Video Pixel Clock |
| C11 | GPIO54 | I/O | VODY2: Digital Video Y Data Output |
| C12 | GPIO67 | I/O | VODC5: Digital Video Cb/Cr Data Output |
| C13 | GPIO72 | I/O | AOHMCK: External HDMI Master Clock Output |
| C14 | SAGNDDIG | - | Digital Ground for Serial ATA |
| C15 | SAVDDDIG | - | 1.05V supply (Serial ATA digital VDD) |
| C16 | GPIO86 | I/O | Not in Use. (Pull-down) |
| C17 | SAVDDTIO | - | 1.8V supply (Serial ATA Tx I/O) |
| C18 | SAVDDTIO | - | 1.8V supply (Serial ATA Tx I/O) |
| C19 | SAVDDTIO | - | 1.8V supply (Serial ATA Tx I/O) |
| C20 | SAVDDTIO | - | 1.8V supply (Serial ATA Tx I/O) |
| C21 | SAVDDDIG | - | 1.05V supply (Serial ATA digital VDD) |
| C22 | SAVDDDIG | - | 1.05V supply (Serial ATA digital VDD) |
| C23 | SAVDDDIG | - | 1.05V supply (Serial ATA digital VDD) |
| C24 | GPIO28 | O | Not used (Fixed at "H") |
| C25 | VDD3 | - | 3.3V supply (I/O buffers) |
| C26 | GPIO13 | O | NAND_WP (NAND write protect) |
| C27 | GND | - | Ground for digital and DDR2 SDRAM |
| C28 | GPIO0 | O | Not used |
| C29 | GPIO5 | I | Not used (Fixed at "L") |
| C30 | VDD3 | - | 3.3V supply (I/O buffers) |
| C31 | GND | - | Ground for digital and DDR2 SDRAM |
| C32 | AO0BCK | O | Bit Clock for 8ch output |
| C33 | AO0BD0 | O | Data (Front L/R) for 8ch output |
| D1 | CLK27IN | I | 27MHz Clock Input |
| D2 | GND | - | Ground for digital and DDR2 SDRAM |
| D3 | PCIAD25 | I/O | PCI Address Data |
| D4 | PCIAD20 | I/O | PCI Address Data |
| D5 | GND | - | Ground for digital and DDR2 SDRAM |
| D6 | PCIPERRB | I/O | PCI Parity Error |
| D7 | GND | - | Ground for digital and DDR2 SDRAM |
| D8 | PCIAD8 | I/O | PCI Address Data |
| D9 | PCIAD2 | I/O | PCI Address Data |
| D10 | GND | - | Ground for digital and DDR2 SDRAM |
| D11 | GPIO51 | I/O | VOVSB: Vertical Sync Signal |
| D12 | GPIO59 | I/O | VODY7: Digital Video Y Data Output |
| D13 | GPIO63 | I/O | VODC1: Digital Video Cb/Cr Data Output |
| D14 | GPIO79 | I/O | AOHTX: IEC60958 output for External HDMI |
| D15 | GPIO83 | I/O | Not in Use. (Pull-down) |
| D16 | GPIO85 | I/O | Not in Use. (Pull-down) |
| D17 | GPIO77 | I/O | AOHBD2: Data output for External HDMI |
| D18 | SAVDDTIO | - | 1.8V supply (Serial ATA Tx I/O) |
| D19 | SAVDDTIO | - | 1.8V supply (Serial ATA Tx I/O) |
| D20 | SAVDDDIG | - | 1.05V supply (Serial ATA digital VDD) |
| D21 | GPIO21 | O | ASPECT1 (4:3, 16:9="0" 4:3LB="1") |
| D22 | GPIO33 | I | PCI INT D (PCI Interrupt: Not used) |

| Pin No. | Name | I/O | Description |
|---------|------------|-----|---|
| D23 | GPIO29 | I | Not used (Fixed at "H") |
| D24 | GPIO22 | I | EJ2TDI (JTAG I/F_1 Data Input) |
| D25 | GND | - | Ground for digital and DDR2 SDRAM |
| D26 | GPIO8 | I | Not used (Fixed at "L") |
| D27 | GPIO6 | I | PCI REQ1 (Not used) |
| D28 | GPIO3 | I | Not used (Fixed at "L") |
| D29 | VDD3 | - | 3.3V supply (I/O buffers) |
| D30 | GND | - | Ground for digital and DDR2 SDRAM |
| D31 | AO0BD3 | O | Data (Surround back L/R) for 8ch output |
| D32 | AO0LRCK | O | LR Clock for 8ch output |
| D33 | AO0MCK | O | Master Clock for 8ch output |
| E1 | GND | - | Ground for digital and DDR2 SDRAM |
| E2 | PCIGNT0 | O | PCI Grant |
| E3 | PCIAD29 | I/O | PCI Address Data |
| E4 | PCIAD24 | I/O | PCI Address Data |
| E5 | PCICBEB2 | I/O | PCI Bus Command and Byte Enable |
| E6 | PCISTOPB | I/O | PCI Stop |
| E7 | PCICBEB1 | I/O | PCI Bus Command and Byte Enable |
| E8 | PCIAD9 | I/O | PCI Address Data |
| E9 | PCIAD3 | I/O | PCI Address Data |
| E10 | GPIO55 | I/O | VODY3: Digital Video Y Data Output |
| E11 | GPIO62 | I/O | VODC0: Digital Video Cb/Cr Data Output |
| E12 | GPIO66 | I/O | VODC4: Digital Video Cb/Cr Data Output |
| E13 | GPIO64 | I/O | VODC2: Digital Video Cb/Cr Data Output |
| E14 | GPIO69 | I/O | VODC7: Digital Video Cb/Cr Data Output |
| E15 | GPIO78 | I/O | AOHBD3: Data output for External HDMI |
| E16 | GPIO82 | I/O | Not in Use. (Pull-down) |
| E17 | GPIO84 | I/O | Not in Use. (Pull-down) |
| E18 | SAVDDTIO | - | 1.8V supply (Serial ATA Tx I/O) |
| E19 | SAVDDDIG | - | 1.05V supply (Serial ATA digital VDD) |
| E20 | GPIO32 | I | PCI INT C (PCI Interrupt: Not used) |
| E21 | GPIO23 | I | EJ2TCK (JTAG I/F_1 Clock Input) |
| E22 | GPIO31 | I | PCI INT B (PCI Interrupt: Not used) |
| E23 | GPIO26 | I | EJ2TRST (JTAG I/F_1 Reset Input) |
| E24 | GPIO16 | O | DAC XRST (Audio DAC Reset "H": Reset "L": Normal) |
| E25 | GPIO15 | O | EMMA CSI0 DAC2_XCS (2ch Audio DAC CS) |
| E26 | GPIO2 | O | EMMA CSI0 VENC_XCS (Not used) |
| E27 | GPIO1 | O | EMMA CSI0_HDE2_XCS (Not used) |
| E28 | GND | - | Ground for digital and DDR2 SDRAM |
| E29 | TMODE3 | I | Test terminal (Not used: Fixed at "L") |
| E30 | AO0BD1 | O | Data (Surround L/R) for 8ch output |
| E31 | AO0BD2 | O | Data (Center/SW) for 8ch output |
| E32 | AO1BD | O | Data for 2ch output |
| E33 | AO1MCK | O | Master Clock for 2ch output |
| F1 | XI | I | Crystal Input |
| F2 | GND | - | Ground for digital and DDR2 SDRAM |
| F3 | PCIREQB0 | I | PCI Request |
| F4 | PCIIDSEL | I | PCI Initialization Device Select |
| F5 | PCICBEB3 | I/O | PCI Bus Command and Byte Enable |
| F6 | PCIDEVSELB | I/O | PCI Device Select |
| F7 | PCIAD13 | I/O | PCI Address Data |
| F8 | PCICBEB0 | I/O | PCI Bus Command and Byte Enable |
| F9 | PCIAD4 | I/O | PCI Address Data |
| F10 | GPIO53 | I/O | VODY1: Digital Video Y Data Output |
| F11 | GPIO60 | I/O | VODY8: Digital Video Y Data Output |
| F12 | GPIO57 | I/O | VODY5: Digital Video Y Data Output |
| F13 | GPIO65 | I/O | VODC3: Digital Video Cb/Cr Data Output |
| F14 | GPIO71 | I/O | VODC9: Digital Video Cb/Cr Data Output |
| F15 | GPIO80 | I/O | Not in Use. (Pull-down) |
| F16 | GPIO74 | I/O | AOHBCK: External HDMI BCK Output |
| F17 | SAGNDANA | - | Analog Ground for Serial ATA |

| Pin No. | Name | I/O | Description |
|---------|----------|-----|--|
| F18 | SAVDDTIO | - | 1.8V supply (Serial ATA Tx I/O) |
| F19 | SAVDDDIG | - | 1.05V supply (Serial ATA digital VDD) |
| F20 | GPIO27 | I | EJ2DINT (JTAG I/F_1 debug interrupt) |
| F21 | GPIO30 | I | PCI INT A (PCI Interrupt: USB) |
| F22 | GPIO25 | I | EJ2TMS (JTAG I/F_1 Mode Set) |
| F23 | GPIO24 | O | EJ2TDO (JTAG I/F_1 Data Out) |
| F24 | GPIO17 | O | XAMUTE (Audio Mute: "H": Normal "L": Mute) |
| F25 | GPIO12 | O | GLB XRST (Not used) |
| F26 | GPIO7 | O | PCI GNT1 (Not used) |
| F27 | VRVDD | - | 1.05V supply for VR5500 PLL |
| F28 | TMODE5 | I | Test terminal (Not used: Fixed at "L") |
| F29 | TEST | I | Test terminal (Not used: Fixed at "L") |
| F30 | S2DOUT | O | IF SDI (IFcon Communication Data Out) |
| F31 | AO1LRCK | O | LR Clock for 2ch output |
| F32 | AO1BCK | O | Bit Clock for 2ch output |
| F33 | VDD3 | - | 3.3V supply (I/O buffers) |
| G1 | XO | O | Crystal Output |
| G2 | GND | - | Ground for digital and DDR2 SDRAM |
| G3 | PCIAD28 | I/O | PCI Address Data |
| G4 | PCIAD26 | I/O | PCI Address Data |
| G5 | PCIAD31 | I/O | PCI Address Data |
| G6 | PCIAD15 | I/O | PCI Address Data |
| G7 | PCIAD16 | I/O | PCI Address Data |
| G8 | PCIAD10 | I/O | PCI Address Data |
| G9 | VDD3 | - | 3.3V supply (I/O buffers) |
| G10 | GND | - | Ground for digital and DDR2 SDRAM |
| G11 | GPIO50 | I/O | VOHSB: Horizontal Sync Signal |
| G12 | GPIO75 | I/O | AOHBD0: Data output for External HDMI |
| G13 | GPIO61 | I/O | VODY9: Digital Video Y Data Output |
| G14 | VDD3 | - | 3.3V supply (I/O buffers) |
| G15 | GPIO73 | I/O | AOHLRCK: External HDMI LRCK Clock Output |
| G16 | SAVDDDIG | - | 1.05V supply (Serial ATA digital VDD) |
| G17 | SAVDDANA | - | 1.8V supply (Serial ATA analog VDD) |
| G18 | SAGNDDIG | - | Digital Ground for Serial ATA |
| G19 | SAGNDDIG | - | Digital Ground for Serial ATA |
| G20 | GPIO36 | O | FORMAT0 (480, 1080="0" 720="1") |
| G21 | VDD10 | - | 1.05V supply (core) |
| G22 | GND | - | Ground for digital and DDR2 SDRAM |
| G23 | VDD3 | - | 3.3V supply (I/O buffers) |
| G24 | VDD3 | - | 3.3V supply (I/O buffers) |
| G25 | GPIO11 | I | EMMA_DIPSW0 (Fixed at "H") |
| G26 | VDD10 | - | 1.05V supply (core) |
| G27 | VRGND | - | Ground for VR5500 PLL |
| G28 | TMODE2 | I | Test terminal (Not used: Fixed at "L") |
| G29 | S2CKIN | I | IF SCK (IFcon Communication Clock In) |
| G30 | S0DOUT | O | EMMA_CSI0_DO (CSI0 Data Out) |
| G31 | S0CKOUT | O | EMMA_CSI0_CKIO (CSI0 Clock Out) |
| G32 | S2DIN | I | IF SDO (IFcon Communication Data In) |
| G33 | S0DIN | I | CSI0_DI (CSI0 Data In) |
| H1 | GND | - | Ground for digital and DDR2 SDRAM |
| H2 | CLKSEL | I | OSC27/CLK27IN Select Signal |
| H3 | PCICLK1 | I | PCI 33MHz Clock Input |
| H4 | GND | - | Ground for digital and DDR2 SDRAM |
| H5 | PCIRSTB | I | PCI Hardware Reset |
| H6 | VDD3 | - | 3.3V supply (I/O buffers) |
| H7 | VDD10 | - | 1.05V supply (core) |
| H8 | VOID | - | This pin is not ball. |
| H9 | VOID | - | This pin is not ball. |
| H10 | VOID | - | This pin is not ball. |
| H11 | VOID | - | This pin is not ball. |
| H12 | VOID | - | This pin is not ball. |

| Pin No. | Name | I/O | Description |
|---------|----------|-----|--|
| H13 | VOID | - | This pin is not ball. |
| H14 | VOID | - | This pin is not ball. |
| H15 | VOID | - | This pin is not ball. |
| H16 | VOID | - | This pin is not ball. |
| H17 | VOID | - | This pin is not ball. |
| H18 | VOID | - | This pin is not ball. |
| H19 | VOID | - | This pin is not ball. |
| H20 | VOID | - | This pin is not ball. |
| H21 | VOID | - | This pin is not ball. |
| H22 | VOID | - | This pin is not ball. |
| H23 | VOID | - | This pin is not ball. |
| H24 | VOID | - | This pin is not ball. |
| H25 | VOID | - | This pin is not ball. |
| H26 | VOID | - | This pin is not ball. |
| H27 | TMODE4 | I | Test terminal (Not used: Fixed at "L") |
| H28 | TMODE1 | I | Test terminal (Not used: Fixed at "L") |
| H29 | S2CSB | I | Chip Select for CSI Ch2 |
| H30 | GND | - | Ground for digital and DDR2 SDRAM |
| H31 | GPIO48 | I | Not used. Fixed at "H" |
| H32 | GPIO47 | I | Not used (Fixed at "L") |
| H33 | GPIO39 | O | Not used |
| J1 | D0DQS1 | - | DDR2 Positive Data Strobe |
| J2 | GND | - | Ground for digital and DDR2 SDRAM |
| J3 | D0VDD18 | - | 1.8V supply (DDR2 SDRAM) |
| J4 | CLK27OUT | O | 27MHz Clock output for XTAL |
| J5 | PCIAD30 | I/O | PCI Address Data |
| J6 | VDD3 | - | 3.3V supply (I/O buffers) |
| J7 | VDD10 | - | 1.05V supply (core) |
| J8 | VOID | - | This pin is not ball. |
| J9 | VOID | - | This pin is not ball. |
| J10 | VOID | - | This pin is not ball. |
| J11 | VOID | - | This pin is not ball. |
| J12 | VOID | - | This pin is not ball. |
| J13 | VOID | - | This pin is not ball. |
| J14 | VOID | - | This pin is not ball. |
| J15 | VOID | - | This pin is not ball. |
| J16 | VOID | - | This pin is not ball. |
| J17 | VOID | - | This pin is not ball. |
| J18 | VOID | - | This pin is not ball. |
| J19 | VOID | - | This pin is not ball. |
| J20 | VOID | - | This pin is not ball. |
| J21 | VOID | - | This pin is not ball. |
| J22 | VOID | - | This pin is not ball. |
| J23 | VOID | - | This pin is not ball. |
| J24 | VOID | - | This pin is not ball. |
| J25 | VOID | - | This pin is not ball. |
| J26 | VOID | - | This pin is not ball. |
| J27 | TMODE0 | I | Test terminal (Not used: Fixed at "L") |
| J28 | RSTSWB | I | Main Reset |
| J29 | GPIO46 | O | Not used |
| J30 | GPIO38 | O | UART Ch1 TX (Not used) |
| J31 | GPIO40 | O | Not used |
| J32 | GPIO45 | O | USB VBUS PCONT (Bus Power ON at "H") |
| J33 | GPIO37 | I | UART Ch1 RX (Not used) |
| K1 | D0DQS1B | I/O | DDR2 Negative Data Strobe |
| K2 | GND | - | Ground for digital and DDR2 SDRAM |
| K3 | D0Q10 | I/O | DDR2 Data Input/Output |
| K4 | GND | - | Ground for digital and DDR2 SDRAM |
| K5 | GND | - | Ground for digital and DDR2 SDRAM |
| K6 | D0VDD18 | - | 1.8V supply (DDR2 SDRAM) |
| K7 | GND | - | Ground for digital and DDR2 SDRAM |

| Pin No. | Name | I/O | Description |
|---------|---------|-----|---|
| K8 | VOID | - | This pin is not ball. |
| K9 | VOID | - | This pin is not ball. |
| K10 | VOID | - | This pin is not ball. |
| K11 | VOID | - | This pin is not ball. |
| K12 | VOID | - | This pin is not ball. |
| K13 | VOID | - | This pin is not ball. |
| K14 | VOID | - | This pin is not ball. |
| K15 | VOID | - | This pin is not ball. |
| K16 | VOID | - | This pin is not ball. |
| K17 | VOID | - | This pin is not ball. |
| K18 | VOID | - | This pin is not ball. |
| K19 | VOID | - | This pin is not ball. |
| K20 | VOID | - | This pin is not ball. |
| K21 | VOID | - | This pin is not ball. |
| K22 | VOID | - | This pin is not ball. |
| K23 | VOID | - | This pin is not ball. |
| K24 | VOID | - | This pin is not ball. |
| K25 | VOID | - | This pin is not ball. |
| K26 | VOID | - | This pin is not ball. |
| K27 | NMI | I | Non maskable interrupt (Not used: Fixed at "H") |
| K28 | GND | - | Ground for digital and DDR2 SDRAM |
| K29 | GPIO42 | I | IT_GPIO1 (Boot picture output control) |
| K30 | GPIO35 | O | IP (Progressive="0" Interlace="1") (Not used) |
| K31 | GPIO41 | O | EMMA CSI0 DAC8 XCS (8ch Audio DAC CS: Not used) |
| K32 | GPIO34 | O | DAC MUTE (Audio DAC Mute "H": Mute "L": Normal) |
| K33 | UA0RXDB | I | UART Ch0 RX |
| L1 | GND | - | Ground for digital and DDR2 SDRAM |
| L2 | D0Q9 | I/O | DDR2 Data Input/Output |
| L3 | D0Q12 | I/O | DDR2 Data Input/Output |
| L4 | D0Q8 | I/O | DDR2 Data Input/Output |
| L5 | D0VDD18 | - | 1.8V supply (DDR2 SDRAM) |
| L6 | GND | - | Ground for digital and DDR2 SDRAM |
| L7 | D0VDD18 | - | 1.8V supply (DDR2 SDRAM) |
| L8 | VOID | - | This pin is not ball. |
| L9 | VOID | - | This pin is not ball. |
| L10 | VOID | - | This pin is not ball. |
| L11 | VOID | - | This pin is not ball. |
| L12 | VOID | - | This pin is not ball. |
| L13 | VOID | - | This pin is not ball. |
| L14 | VOID | - | This pin is not ball. |
| L15 | VOID | - | This pin is not ball. |
| L16 | VOID | - | This pin is not ball. |
| L17 | VOID | - | This pin is not ball. |
| L18 | VOID | - | This pin is not ball. |
| L19 | VOID | - | This pin is not ball. |
| L20 | VOID | - | This pin is not ball. |
| L21 | VOID | - | This pin is not ball. |
| L22 | VOID | - | This pin is not ball. |
| L23 | VOID | - | This pin is not ball. |
| L24 | VOID | - | This pin is not ball. |
| L25 | VOID | - | This pin is not ball. |
| L26 | VOID | - | This pin is not ball. |
| L27 | SCL1 | I/O | I2C Ch1 Serial Clock (Not used) |
| L28 | SCL0 | I/O | I2C Ch0 Serial Clock (Not used) |
| L29 | UA0TXDB | O | UART Ch0 TX |
| L30 | GPIO44 | I | Not used (Fixed at "L") |
| L31 | GND | - | Ground for digital and DDR2 SDRAM |
| L32 | DVDDYC | - | 3.3V supply (DAC digital VDD) |
| L33 | AGNDYC | - | Analog Ground for sub Video DACs |
| M1 | D0CLK0 | O | DDR2 Positive Clock |
| M2 | GND | - | Ground for digital and DDR2 SDRAM |

| Pin No. | Name | I/O | Description |
|---------|----------|-----|--|
| M3 | D0Q13 | I/O | DDR2 Data Input/Output |
| M4 | D0Q14 | I/O | DDR2 Data Input/Output |
| M5 | GND | - | Ground for digital and DDR2 SDRAM |
| M6 | D0VDD18 | - | 1.8V supply (DDR2 SDRAM) |
| M7 | GND | - | Ground for digital and DDR2 SDRAM |
| M8 | VOID | - | This pin is not ball. |
| M9 | VOID | - | This pin is not ball. |
| M10 | VOID | - | This pin is not ball. |
| M11 | VOID | - | This pin is not ball. |
| M12 | VOID | - | This pin is not ball. |
| M13 | VOID | - | This pin is not ball. |
| M14 | VOID | - | This pin is not ball. |
| M15 | VOID | - | This pin is not ball. |
| M16 | VOID | - | This pin is not ball. |
| M17 | VOID | - | This pin is not ball. |
| M18 | VOID | - | This pin is not ball. |
| M19 | VOID | - | This pin is not ball. |
| M20 | VOID | - | This pin is not ball. |
| M21 | VOID | - | This pin is not ball. |
| M22 | VOID | - | This pin is not ball. |
| M23 | VOID | - | This pin is not ball. |
| M24 | VOID | - | This pin is not ball. |
| M25 | VOID | - | This pin is not ball. |
| M26 | VOID | - | This pin is not ball. |
| M27 | SDA1 | I/O | I2C Ch1 Serial Data (Not used) |
| M28 | SDA0 | I/O | I2C Ch0 Serial Data (Not used) |
| M29 | GPIO43 | O | Not used |
| M30 | GND | - | Ground for digital and DDR2 SDRAM |
| M31 | VAY | O | S-Video Y Signal Output |
| M32 | GND | - | Ground for digital and DDR2 SDRAM |
| M33 | VAC | O | S-Video C Signal Output |
| N1 | D0CLK0B | O | DDR2 Negative Clock |
| N2 | GND | - | Ground for digital and DDR2 SDRAM |
| N3 | D0DM1 | I/O | DDR2 Data Mask |
| N4 | D0Q11 | I/O | DDR2 Data Input/Output |
| N5 | D0VDD18 | - | 1.8V supply (DDR2 SDRAM) |
| N6 | GND | - | Ground for digital and DDR2 SDRAM |
| N7 | D0VDD10 | - | 1.05V supply (DDR2 SDRAM DLL) |
| N8 | VOID | - | This pin is not ball. |
| N9 | VOID | - | This pin is not ball. |
| N10 | VOID | - | This pin is not ball. |
| N11 | VOID | - | This pin is not ball. |
| N12 | VOID | - | This pin is not ball. |
| N13 | PVDD | - | 1.05V supply for PLL |
| N14 | PGND | - | Ground for PLL |
| N15 | GND | - | Ground for digital and DDR2 SDRAM |
| N16 | VDD10 | - | 1.05V supply (core) |
| N17 | GND | - | Ground for digital and DDR2 SDRAM |
| N18 | VDD10 | - | 1.05V supply (core) |
| N19 | GND | - | Ground for digital and DDR2 SDRAM |
| N20 | PVDD | - | 1.05V supply for PLL |
| N21 | PVDD | - | 1.05V supply for PLL |
| N22 | VOID | - | This pin is not ball. |
| N23 | VOID | - | This pin is not ball. |
| N24 | VOID | - | This pin is not ball. |
| N25 | VOID | - | This pin is not ball. |
| N26 | VOID | - | This pin is not ball. |
| N27 | AVDDYC | - | Analog 3.3v supply for sub Video DACs |
| N28 | AGNDYC | - | Analog Ground for sub Video DACs |
| N29 | VACOMPYC | - | Compensation capacitance terminal (It with AVDDYC through 0.1uF) |
| N30 | VAREFYC | - | Voltage Reference Input for DAC (1.32V) |

| Pin No. | Name | I/O | Description |
|---------|---------|-----|--|
| N31 | GND | - | Ground for digital and DDR2 SDRAM |
| N32 | GND | - | Ground for digital and DDR2 SDRAM |
| N33 | GND | - | Ground for digital and DDR2 SDRAM |
| P1 | GND | - | Ground for digital and DDR2 SDRAM |
| P2 | D0Q2 | I/O | DDR2 Data Input/Output |
| P3 | D0Q15 | I/O | DDR2 Data Input/Output |
| P4 | GND | - | Ground for digital and DDR2 SDRAM |
| P5 | D0VDD18 | - | 1.8V supply (DDR2 SDRAM) |
| P6 | GND | - | Ground for digital and DDR2 SDRAM |
| P7 | D0VDD10 | - | 1.05V supply (DDR2 SDRAM DLL) |
| P8 | VOID | - | This pin is not ball. |
| P9 | VOID | - | This pin is not ball. |
| P10 | VOID | - | This pin is not ball. |
| P11 | VOID | - | This pin is not ball. |
| P12 | VOID | - | This pin is not ball. |
| P13 | PVDD | - | 1.05V supply for PLL |
| P14 | PGND | - | Ground for PLL |
| P15 | GND | - | Ground for digital and DDR2 SDRAM |
| P16 | GND | - | Ground for digital and DDR2 SDRAM |
| P17 | VDD10 | - | 1.05V supply (core) |
| P18 | GND | - | Ground for digital and DDR2 SDRAM |
| P19 | GND | - | Ground for digital and DDR2 SDRAM |
| P20 | PGND | - | Ground for PLL |
| P21 | PGND | - | Ground for PLL |
| P22 | VOID | - | This pin is not ball. |
| P23 | VOID | - | This pin is not ball. |
| P24 | VOID | - | This pin is not ball. |
| P25 | VOID | - | This pin is not ball. |
| P26 | VOID | - | This pin is not ball. |
| P27 | AVDDYC | - | Analog 3.3v supply for sub Video DACs |
| P28 | AGNDYC | - | Analog Ground for sub Video DACs |
| P29 | VAR | O | Component Output either R or Pr Signal |
| P30 | GND | - | Ground for digital and DDR2 SDRAM |
| P31 | VAB | O | Component Output either B or Pb Signal |
| P32 | GND | - | Ground for digital and DDR2 SDRAM |
| P33 | VAG | O | Component Output either G or Y Signal |
| R1 | D0DQS0 | I/O | DDR2 Positive Data Strobe |
| R2 | GND | - | Ground for digital and DDR2 SDRAM |
| R3 | D0Q1 | I/O | DDR2 Data Input/Output |
| R4 | D0Q0 | I/O | DDR2 Data Input/Output |
| R5 | D0WEB | O | DDR2 Command Write Enable |
| R6 | D0VDD18 | - | 1.8V supply (DDR2 SDRAM) |
| R7 | GND | - | Ground for digital and DDR2 SDRAM |
| R8 | VOID | - | This pin is not ball. |
| R9 | VOID | - | This pin is not ball. |
| R10 | VOID | - | This pin is not ball. |
| R11 | VOID | - | This pin is not ball. |
| R12 | VOID | - | This pin is not ball. |
| R13 | GND | - | Ground for digital and DDR2 SDRAM |
| R14 | GND | - | Ground for digital and DDR2 SDRAM |
| R15 | GND | - | Ground for digital and DDR2 SDRAM |
| R16 | VDD10 | - | 1.05V supply (core) |
| R17 | GND | - | Ground for digital and DDR2 SDRAM |
| R18 | VDD10 | - | 1.05V supply (core) |
| R19 | GND | - | Ground for digital and DDR2 SDRAM |
| R20 | GND | - | Ground for digital and DDR2 SDRAM |
| R21 | GND | - | Ground for digital and DDR2 SDRAM |
| R22 | VOID | - | This pin is not ball. |
| R23 | VOID | - | This pin is not ball. |
| R24 | VOID | - | This pin is not ball. |
| R25 | VOID | - | This pin is not ball. |

| Pin No. | Name | I/O | Description |
|---------|-----------|-----|--|
| R26 | VOID | - | This pin is not ball. |
| R27 | AVDDRGB | - | Analog 3.3v supply for main Video DACs |
| R28 | AGNDRGB | - | Analog Ground for main Video DACs |
| R29 | VARSETYC | - | 680-ohm Resister |
| R30 | VAREFRGB | - | Voltage Reference Input for DAC (1.32V) |
| R31 | VARSETRGB | - | 470-ohm Resister |
| R32 | HGNDANA | - | Analog Ground for HDMI |
| R33 | HGNDANA | - | Analog Ground for HDMI |
| T1 | D0DQS0B | I/O | DDR2 Negative Data Strobe |
| T2 | GND | - | Ground for digital and DDR2 SDRAM |
| T3 | D0Q4 | I/O | DDR2 Data Input/Output |
| T4 | D0Q3 | I/O | DDR2 Data Input/Output |
| T5 | D0CKERSTB | I | DDR2 Clock Enable External Control 1.8V or 0.0V |
| T6 | GND | - | Ground for digital and DDR2 SDRAM |
| T7 | D0VREF | I | DDR2 Reference Voltage |
| T8 | VOID | - | This pin is not ball. |
| T9 | VOID | - | This pin is not ball. |
| T10 | VOID | - | This pin is not ball. |
| T11 | VOID | - | This pin is not ball. |
| T12 | VOID | - | This pin is not ball. |
| T13 | VDD10 | - | 1.05V supply (core) |
| T14 | GND | - | Ground for digital and DDR2 SDRAM |
| T15 | VDD10 | - | 1.05V supply (core) |
| T16 | GND | - | Ground for digital and DDR2 SDRAM |
| T17 | VDD10 | - | 1.05V supply (core) |
| T18 | GND | - | Ground for digital and DDR2 SDRAM |
| T19 | VDD10 | - | 1.05V supply (core) |
| T20 | GND | - | Ground for digital and DDR2 SDRAM |
| T21 | VDD10 | - | 1.05V supply (core) |
| T22 | VOID | - | This pin is not ball. |
| T23 | VOID | - | This pin is not ball. |
| T24 | VOID | - | This pin is not ball. |
| T25 | VOID | - | This pin is not ball. |
| T26 | VOID | - | This pin is not ball. |
| T27 | AVDDRGB | - | Analog 3.3v supply for main Video DACs |
| T28 | AGNDRGB | - | Analog Ground for main Video DACs |
| T29 | VACOMPRGB | - | Compensation capacitance terminal (It with AVDDYC through 0.1uF) |
| T30 | DVDDRGB | - | 3.3V supply (DAC digital VDD) |
| T31 | HGNDANA | - | Analog Ground for HDMI |
| T32 | HTXN2 | O | TMDS Data output 2- |
| T33 | HTXP2 | O | TMDS Data output 2+ |
| U1 | GND | - | Ground for digital and DDR2 SDRAM |
| U2 | D0DM0 | I/O | DDR2 Data Mask |
| U3 | D0Q5 | I/O | DDR2 Data Input/Output |
| U4 | D0Q6 | I/O | DDR2 Data Input/Output |
| U5 | D0BA0 | O | DDR2 Bank Address |
| U6 | D0ADD10 | O | DDR2 Address Output |
| U7 | GND | - | Ground for digital and DDR2 SDRAM |
| U8 | VOID | - | This pin is not ball. |
| U9 | VOID | - | This pin is not ball. |
| U10 | VOID | - | This pin is not ball. |
| U11 | VOID | - | This pin is not ball. |
| U12 | VOID | - | This pin is not ball. |
| U13 | GND | - | Ground for digital and DDR2 SDRAM |
| U14 | VDD10 | - | 1.05V supply (core) |
| U15 | GND | - | Ground for digital and DDR2 SDRAM |
| U16 | VDD10 | - | 1.05V supply (core) |
| U17 | GND | - | Ground for digital and DDR2 SDRAM |
| U18 | VDD10 | - | 1.05V supply (core) |
| U19 | GND | - | Ground for digital and DDR2 SDRAM |
| U20 | VDD10 | - | 1.05V supply (core) |

| Pin No. | Name | I/O | Description |
|---------|-----------|-----|---|
| U21 | GND | - | Ground for digital and DDR2 SDRAM |
| U22 | VOID | - | This pin is not ball. |
| U23 | VOID | - | This pin is not ball. |
| U24 | VOID | - | This pin is not ball. |
| U25 | VOID | - | This pin is not ball. |
| U26 | VOID | - | This pin is not ball. |
| U27 | VDD10 | - | 1.05V supply (core) |
| U28 | GND | - | Ground for digital and DDR2 SDRAM |
| U29 | VDD3 | - | 3.3V supply (I/O buffers) |
| U30 | VDD3 | - | 3.3V supply (I/O buffers) |
| U31 | HGNDANA | - | Analog Ground for HDMI |
| U32 | HVDDANA | - | 1.0V Supply (HDMI analog VDD) |
| U33 | HVDDANA | - | 1.0V Supply (HDMI analog VDD) |
| V1 | D0Q7 | I/O | DDR2 Data Input/Output |
| V2 | D0BA1 | O | DDR2 Bank Address |
| V3 | D0ADD3 | O | DDR2 Address Output |
| V4 | GND | - | Ground for digital and DDR2 SDRAM |
| V5 | D0CKE | O | DDR2 Clock Enable |
| V6 | D0ADD7 | O | DDR2 Address Output |
| V7 | D0ADD9 | O | DDR2 Address Output |
| V8 | VOID | - | This pin is not ball. |
| V9 | VOID | - | This pin is not ball. |
| V10 | VOID | - | This pin is not ball. |
| V11 | VOID | - | This pin is not ball. |
| V12 | VOID | - | This pin is not ball. |
| V13 | VDD10 | - | 1.05V supply (core) |
| V14 | GND | - | Ground for digital and DDR2 SDRAM |
| V15 | VDD10 | - | 1.05V supply (core) |
| V16 | GND | - | Ground for digital and DDR2 SDRAM |
| V17 | VDD10 | - | 1.05V supply (core) |
| V18 | GND | - | Ground for digital and DDR2 SDRAM |
| V19 | VDD10 | - | 1.05V supply (core) |
| V20 | GND | - | Ground for digital and DDR2 SDRAM |
| V21 | GND | - | Ground for digital and DDR2 SDRAM |
| V22 | VOID | - | This pin is not ball. |
| V23 | VOID | - | This pin is not ball. |
| V24 | VOID | - | This pin is not ball. |
| V25 | VOID | - | This pin is not ball. |
| V26 | VOID | - | This pin is not ball. |
| V27 | HVDDANA | - | 1.0V Supply (HDMI analog VDD) |
| V28 | HVDDANA | - | 1.0V Supply (HDMI analog VDD) |
| V29 | HVDDANA | - | 1.0V Supply (HDMI analog VDD) |
| V30 | HGNDANA | - | Analog Ground for HDMI |
| V31 | HEXTSWING | I | Resistance Connection Terminal for Output Amplitude Control |
| V32 | HTXN1 | O | TMDS Data output 1- |
| V33 | HTXP1 | O | TMDS Data output 1+ |
| W1 | D0ADD1 | O | DDR2 Address Output |
| W2 | D0VDD18 | - | 1.8V supply (DDR2 SDRAM) |
| W3 | GND | - | Ground for digital and DDR2 SDRAM |
| W4 | D0ADD12 | O | DDR2 Address Output |
| W5 | D0ADD13 | O | DDR2 Address Output |
| W6 | D0ADD11 | O | DDR2 Address Output |
| W7 | D0ADD14 | O | DDR2 Address Output |
| W8 | VOID | - | This pin is not ball. |
| W9 | VOID | - | This pin is not ball. |
| W10 | VOID | - | This pin is not ball. |
| W11 | VOID | - | This pin is not ball. |
| W12 | VOID | - | This pin is not ball. |
| W13 | GND | - | Ground for digital and DDR2 SDRAM |
| W14 | GND | - | Ground for digital and DDR2 SDRAM |
| W15 | GND | - | Ground for digital and DDR2 SDRAM |

| Pin No. | Name | I/O | Description |
|---------|----------|-----|------------------------------------|
| W16 | VDD10 | - | 1.05V supply (core) |
| W17 | GND | - | Ground for digital and DDR2 SDRAM |
| W18 | VDD10 | - | 1.05V supply (core) |
| W19 | GND | - | Ground for digital and DDR2 SDRAM |
| W20 | PGND | - | Ground for PLL |
| W21 | PVDD | - | 1.05V supply for PLL |
| W22 | VOID | - | This pin is not ball. |
| W23 | VOID | - | This pin is not ball. |
| W24 | VOID | - | This pin is not ball. |
| W25 | VOID | - | This pin is not ball. |
| W26 | VOID | - | This pin is not ball. |
| W27 | HGNDANA | - | Analog Ground for HDMI |
| W28 | HGNDANA | - | Analog Ground for HDMI |
| W29 | HGNDANA | - | Analog Ground for HDMI |
| W30 | HGNDANA | - | Analog Ground for HDMI |
| W31 | HDSCL | I/O | DDC Clock |
| W32 | HGNDANA | - | Analog Ground for HDMI |
| W33 | HGNDANA | - | Analog Ground for HDMI |
| Y1 | D0VDD18 | - | 1.8V supply (DDR2 SDRAM) |
| Y2 | D0ADD5 | O | DDR2 Address Output |
| Y3 | D0ADD6 | O | DDR2 Address Output |
| Y4 | D0ADD2 | O | DDR2 Address Output |
| Y5 | D0ADD4 | O | DDR2 Address Output |
| Y6 | D0CASB | O | DDR2 Column Address Strobe Signal |
| Y7 | D0ADD0 | O | DDR2 Address Output |
| Y8 | VOID | - | This pin is not ball. |
| Y9 | VOID | - | This pin is not ball. |
| Y10 | VOID | - | This pin is not ball. |
| Y11 | VOID | - | This pin is not ball. |
| Y12 | VOID | - | This pin is not ball. |
| Y13 | PGND | - | Ground for PLL |
| Y14 | PGND | - | Ground for PLL |
| Y15 | GND | - | Ground for digital and DDR2 SDRAM |
| Y16 | GND | - | Ground for digital and DDR2 SDRAM |
| Y17 | VDD10 | - | 1.05V supply (core) |
| Y18 | GND | - | Ground for digital and DDR2 SDRAM |
| Y19 | GND | - | Ground for digital and DDR2 SDRAM |
| Y20 | PGND | - | Ground for PLL |
| Y21 | PVDD | - | 1.05V supply for PLL |
| Y22 | VOID | - | This pin is not ball. |
| Y23 | VOID | - | This pin is not ball. |
| Y24 | VOID | - | This pin is not ball. |
| Y25 | VOID | - | This pin is not ball. |
| Y26 | VOID | - | This pin is not ball. |
| Y27 | GND | - | Ground for digital and DDR2 SDRAM |
| Y28 | ETMDC | O | Ether Management Clock Output |
| Y29 | ETMDIO | I/O | Ether Management Data Input/Output |
| Y30 | ETREFCLK | I | Ether Reference Clock Input |
| Y31 | HSDSA | I/O | DDC Data |
| Y32 | HTXN0 | O | TMDS Data output 0- |
| Y33 | HTXP0 | O | TMDS Data output 0+ |
| AA1 | D0ADD8 | O | DDR2 Address Output |
| AA2 | D0CS0B | O | DDR2 Chip Select |
| AA3 | D0VDD18 | - | 1.8V supply (DDR2 SDRAM) |
| AA4 | D0RASB | O | DDR2 Raw Address Strobe Signal |
| AA5 | GND | - | Ground for digital and DDR2 SDRAM |
| AA6 | D0CS1B | O | DDR2 Chip Select/Bank Address |
| AA7 | GND | - | Ground for digital and DDR2 SDRAM |
| AA8 | VOID | - | This pin is not ball. |
| AA9 | VOID | - | This pin is not ball. |
| AA10 | VOID | - | This pin is not ball. |

| Pin No. | Name | I/O | Description |
|---------|---------|-----|-----------------------------------|
| AA11 | VOID | - | This pin is not ball. |
| AA12 | VOID | - | This pin is not ball. |
| AA13 | PVDD | - | 1.05V supply for PLL |
| AA14 | PVDD | - | 1.05V supply for PLL |
| AA15 | GND | - | Ground for digital and DDR2 SDRAM |
| AA16 | VDD10 | - | 1.05V supply (core) |
| AA17 | GND | - | Ground for digital and DDR2 SDRAM |
| AA18 | VDD10 | - | 1.05V supply (core) |
| AA19 | GND | - | Ground for digital and DDR2 SDRAM |
| AA20 | PGND | - | Ground for PLL |
| AA21 | PVDD | - | 1.05V supply for PLL |
| AA22 | VOID | - | This pin is not ball. |
| AA23 | VOID | - | This pin is not ball. |
| AA24 | VOID | - | This pin is not ball. |
| AA25 | VOID | - | This pin is not ball. |
| AA26 | VOID | - | This pin is not ball. |
| AA27 | ETRXER | I | Ether RX Error Detection |
| AA28 | ETRXD0 | I | Ether RX Data Input |
| AA29 | ETRXD1 | I | Ether RX Data Input |
| AA30 | ETCRS | I | Ether RX Data Enable |
| AA31 | HHPD | I | Hot Plug Detect |
| AA32 | HVDDANA | - | 1.0V Supply (HDMI analog VDD) |
| AA33 | HVDDANA | - | 1.0V Supply (HDMI analog VDD) |
| AB1 | D0ODT0 | O | DDR2 On Die terminal control |
| AB2 | GND | - | Ground for digital and DDR2 SDRAM |
| AB3 | D0ADD15 | O | DDR2 Address Output |
| AB4 | D0Q22 | I/O | DDR2 Data Input/Output |
| AB5 | D0ODT1 | O | DDR2 On Die terminal control |
| AB6 | D0VDD18 | - | 1.8V supply (DDR2 SDRAM) |
| AB7 | D0VDD18 | - | 1.8V supply (DDR2 SDRAM) |
| AB8 | VOID | - | This pin is not ball. |
| AB9 | VOID | - | This pin is not ball. |
| AB10 | VOID | - | This pin is not ball. |
| AB11 | VOID | - | This pin is not ball. |
| AB12 | VOID | - | This pin is not ball. |
| AB13 | VOID | - | This pin is not ball. |
| AB14 | VOID | - | This pin is not ball. |
| AB15 | VOID | - | This pin is not ball. |
| AB16 | VOID | - | This pin is not ball. |
| AB17 | VOID | - | This pin is not ball. |
| AB18 | VOID | - | This pin is not ball. |
| AB19 | VOID | - | This pin is not ball. |
| AB20 | VOID | - | This pin is not ball. |
| AB21 | VOID | - | This pin is not ball. |
| AB22 | VOID | - | This pin is not ball. |
| AB23 | VOID | - | This pin is not ball. |
| AB24 | VOID | - | This pin is not ball. |
| AB25 | VOID | - | This pin is not ball. |
| AB26 | VOID | - | This pin is not ball. |
| AB27 | GND | - | Ground for digital and DDR2 SDRAM |
| AB28 | ETTXD1 | O | Ether TX Data Output |
| AB29 | ETTXD0 | O | Ether TX Data Output |
| AB30 | ETTXEN | O | Ether TX Data Enable |
| AB31 | HGNDANA | - | Analog Ground for HDMI |
| AB32 | HTXCN | O | TMDS Clock output 0- |
| AB33 | HTXCP | O | TMDS Clock output 0+ |
| AC1 | GND | - | Ground for digital and DDR2 SDRAM |
| AC2 | D0Q23 | I/O | DDR2 Data Input/Output |
| AC3 | D0Q21 | I/O | DDR2 Data Input/Output |
| AC4 | D0Q20 | I/O | DDR2 Data Input/Output |
| AC5 | GND | - | Ground for digital and DDR2 SDRAM |

| Pin No. | Name | I/O | Description |
|---------|-----------------|-----|---|
| AC6 | D0VDD18 | - | 1.8V supply (DDR2 SDRAM) |
| AC7 | GND | - | Ground for digital and DDR2 SDRAM |
| AC8 | VOID | - | This pin is not ball. |
| AC9 | VOID | - | This pin is not ball. |
| AC10 | VOID | - | This pin is not ball. |
| AC11 | VOID | - | This pin is not ball. |
| AC12 | VOID | - | This pin is not ball. |
| AC13 | VOID | - | This pin is not ball. |
| AC14 | VOID | - | This pin is not ball. |
| AC15 | VOID | - | This pin is not ball. |
| AC16 | VOID | - | This pin is not ball. |
| AC17 | VOID | - | This pin is not ball. |
| AC18 | VOID | - | This pin is not ball. |
| AC19 | VOID | - | This pin is not ball. |
| AC20 | VOID | - | This pin is not ball. |
| AC21 | VOID | - | This pin is not ball. |
| AC22 | VOID | - | This pin is not ball. |
| AC23 | VOID | - | This pin is not ball. |
| AC24 | VOID | - | This pin is not ball. |
| AC25 | VOID | - | This pin is not ball. |
| AC26 | VOID | - | This pin is not ball. |
| AC27 | VDD3 | - | 3.3V supply (I/O buffers) |
| AC28 | GND | - | Ground for digital and DDR2 SDRAM |
| AC29 | GND | - | Ground for digital and DDR2 SDRAM |
| AC30 | GND | - | Ground for digital and DDR2 SDRAM |
| AC31 | HGNDANA | - | Analog Ground for HDMI |
| AC32 | HGNDANA | - | Analog Ground for HDMI |
| AC33 | HGNDANA | - | Analog Ground for HDMI |
| AD1 | D0DQS2 | I/O | DDR2 Positive Data Strobe |
| AD2 | GND | - | Ground for digital and DDR2 SDRAM |
| AD3 | D0DM2 | I/O | DDR2 Data Mask |
| AD4 | D0Q17 | I/O | DDR2 Data Input/Output |
| AD5 | D0VDD18 | - | 1.8V supply (DDR2 SDRAM) |
| AD6 | GND | - | Ground for digital and DDR2 SDRAM |
| AD7 | D0VDD10 | - | 1.05V supply (DDR2 SDRAM DLL) |
| AD8 | VOID | - | This pin is not ball. |
| AD9 | VOID | - | This pin is not ball. |
| AD10 | VOID | - | This pin is not ball. |
| AD11 | VOID | - | This pin is not ball. |
| AD12 | VOID | - | This pin is not ball. |
| AD13 | VOID | - | This pin is not ball. |
| AD14 | VOID | - | This pin is not ball. |
| AD15 | VOID | - | This pin is not ball. |
| AD16 | VOID | - | This pin is not ball. |
| AD17 | VOID | - | This pin is not ball. |
| AD18 | VOID | - | This pin is not ball. |
| AD19 | VOID | - | This pin is not ball. |
| AD20 | VOID | - | This pin is not ball. |
| AD21 | VOID | - | This pin is not ball. |
| AD22 | VOID | - | This pin is not ball. |
| AD23 | VOID | - | This pin is not ball. |
| AD24 | VOID | - | This pin is not ball. |
| AD25 | VOID | - | This pin is not ball. |
| AD26 | VOID | - | This pin is not ball. |
| AD27 | VDD3 | - | 3.3V supply (I/O buffers) |
| AD28 | GND | - | Ground for digital and DDR2 SDRAM |
| AD29 | RDATA11/GDATA11 | I/O | Data bus for external memory and peripheral |
| AD30 | RDATA12/GDATA12 | I/O | Data bus for external memory and peripheral |
| AD31 | RDATA13/GDATA13 | I/O | Data bus for external memory and peripheral |
| AD32 | RDATA14/GDATA14 | I/O | Data bus for external memory and peripheral |
| AD33 | RDATA15/GDATA15 | I/O | Data bus for external memory and peripheral |

| Pin No. | Name | I/O | Description |
|---------|-----------------|-----|---|
| AE1 | D0DQS2B | - | DDR2 Negative Data Strobe |
| AE2 | GND | - | Ground for digital and DDR2 SDRAM |
| AE3 | D0VDD18 | - | 1.8V supply (DDR2 SDRAM) |
| AE4 | D0Q16 | I/O | DDR2 Data Input/Output |
| AE5 | D0VDD18 | - | 1.8V supply (DDR2 SDRAM) |
| AE6 | GND | - | Ground for digital and DDR2 SDRAM |
| AE7 | D0VDD10 | - | 1.05V supply (DDR2 SDRAM DLL) |
| AE8 | VOID | - | This pin is not ball. |
| AE9 | VOID | - | This pin is not ball. |
| AE10 | VOID | - | This pin is not ball. |
| AE11 | VOID | - | This pin is not ball. |
| AE12 | VOID | - | This pin is not ball. |
| AE13 | VOID | - | This pin is not ball. |
| AE14 | VOID | - | This pin is not ball. |
| AE15 | VOID | - | This pin is not ball. |
| AE16 | VOID | - | This pin is not ball. |
| AE17 | VOID | - | This pin is not ball. |
| AE18 | VOID | - | This pin is not ball. |
| AE19 | VOID | - | This pin is not ball. |
| AE20 | VOID | - | This pin is not ball. |
| AE21 | VOID | - | This pin is not ball. |
| AE22 | VOID | - | This pin is not ball. |
| AE23 | VOID | - | This pin is not ball. |
| AE24 | VOID | - | This pin is not ball. |
| AE25 | VOID | - | This pin is not ball. |
| AE26 | VOID | - | This pin is not ball. |
| AE27 | VDD10 | - | 1.05V supply (core) |
| AE28 | GND | - | Ground for digital and DDR2 SDRAM |
| AE29 | RDATA6/GDATA6 | I/O | Data bus for external memory and peripheral |
| AE30 | RDATA7/GDATA7 | I/O | Data bus for external memory and peripheral |
| AE31 | RDATA8/GDATA8 | I/O | Data bus for external memory and peripheral |
| AE32 | RDATA9/GDATA9 | I/O | Data bus for external memory and peripheral |
| AE33 | RDATA10/GDATA10 | I/O | Data bus for external memory and peripheral |
| AF1 | GND | - | Ground for digital and DDR2 SDRAM |
| AF2 | D0Q19 | I/O | DDR2 Data Input/Output |
| AF3 | D0Q18 | I/O | DDR2 Data Input/Output |
| AF4 | D0Q29 | I/O | DDR2 Data Input/Output |
| AF5 | GND | - | Ground for digital and DDR2 SDRAM |
| AF6 | D0VDD18 | - | 1.8V supply (DDR2 SDRAM) |
| AF7 | GND | - | Ground for digital and DDR2 SDRAM |
| AF8 | VOID | - | This pin is not ball. |
| AF9 | VOID | - | This pin is not ball. |
| AF10 | VOID | - | This pin is not ball. |
| AF11 | VOID | - | This pin is not ball. |
| AF12 | VOID | - | This pin is not ball. |
| AF13 | VOID | - | This pin is not ball. |
| AF14 | VOID | - | This pin is not ball. |
| AF15 | VOID | - | This pin is not ball. |
| AF16 | VOID | - | This pin is not ball. |
| AF17 | VOID | - | This pin is not ball. |
| AF18 | VOID | - | This pin is not ball. |
| AF19 | VOID | - | This pin is not ball. |
| AF20 | VOID | - | This pin is not ball. |
| AF21 | VOID | - | This pin is not ball. |
| AF22 | VOID | - | This pin is not ball. |
| AF23 | VOID | - | This pin is not ball. |
| AF24 | VOID | - | This pin is not ball. |
| AF25 | VOID | - | This pin is not ball. |
| AF26 | VOID | - | This pin is not ball. |
| AF27 | VDD10 | - | 1.05V supply (core) |
| AF28 | VDD3 | - | 3.3V supply (I/O buffers) |

| Pin No. | Name | I/O | Description |
|---------|---------------|-----|---|
| AF29 | RDATA1/GDATA1 | I/O | Data bus for external memory and peripheral |
| AF30 | RDATA2/GDATA2 | I/O | Data bus for external memory and peripheral |
| AF31 | RDATA3/GDATA3 | I/O | Data bus for external memory and peripheral |
| AF32 | RDATA4/GDATA4 | I/O | Data bus for external memory and peripheral |
| AF33 | RDATA5/GDATA5 | I/O | Data bus for external memory and peripheral |
| AG1 | D0CLK1 | O | DDR2 Positive Clock |
| AG2 | GND | - | Ground for digital and DDR2 SDRAM |
| AG3 | D0Q31 | I/O | DDR2 Data Input/Output |
| AG4 | GND | - | Ground for digital and DDR2 SDRAM |
| AG5 | D0Q28 | I/O | DDR2 Data Input/Output |
| AG6 | GND | - | Ground for digital and DDR2 SDRAM |
| AG7 | VDD3 | - | 3.3V supply (I/O buffers) |
| AG8 | GND | - | Ground for digital and DDR2 SDRAM |
| AG9 | D1VDD10 | - | 1.05V supply (DDR2 SDRAM DLL) |
| AG10 | D1VDD10 | - | 1.05V supply (DDR2 SDRAM DLL) |
| AG11 | GND | - | Ground for digital and DDR2 SDRAM |
| AG12 | D1VDD18 | - | 1.8V supply (DDR2 SDRAM) |
| AG13 | GND | - | Ground for digital and DDR2 SDRAM |
| AG14 | D1ADD0 | O | DDR2 Address Output |
| AG15 | D1ADD14 | O | DDR2 Address Output |
| AG16 | D1ADD9 | O | DDR2 Address Output |
| AG17 | GND | - | Ground for digital and DDR2 SDRAM |
| AG18 | D1VREF | I | DDR2 Reference Voltage |
| AG19 | GND | - | Ground for digital and DDR2 SDRAM |
| AG20 | D1VDD10 | - | 1.05V supply (DDR2 SDRAM DLL) |
| AG21 | D1VDD10 | - | 1.05V supply (DDR2 SDRAM DLL) |
| AG22 | GND | - | Ground for digital and DDR2 SDRAM |
| AG23 | D1VDD18 | - | 1.8V supply (DDR2 SDRAM) |
| AG24 | GND | - | Ground for digital and DDR2 SDRAM |
| AG25 | VDD3 | - | 3.3V supply (I/O buffers) |
| AG26 | VDD3 | - | 3.3V supply (I/O buffers) |
| AG27 | VDD10 | - | 1.05V supply (core) |
| AG28 | VDD3 | - | 3.3V supply (I/O buffers) |
| AG29 | RDATA0/GDATA0 | I/O | Data bus for external memory and peripheral |
| AG30 | GND | - | Ground for digital and DDR2 SDRAM |
| AG31 | VDD3 | - | 3.3V supply (I/O buffers) |
| AG32 | GND | - | Ground for digital and DDR2 SDRAM |
| AG33 | VDD3 | - | 3.3V supply (I/O buffers) |
| AH1 | D0CLK1B | O | DDR2 Negative Clock |
| AH2 | GND | - | Ground for digital and DDR2 SDRAM |
| AH3 | D1VDD18 | - | 1.8V supply (DDR2 SDRAM) |
| AH4 | D0Q30 | I/O | DDR2 Data Input/Output |
| AH5 | D0Q26 | I/O | DDR2 Data Input/Output |
| AH6 | GND | - | Ground for digital and DDR2 SDRAM |
| AH7 | GND | - | Ground for digital and DDR2 SDRAM |
| AH8 | D1VDD18 | - | 1.8V supply (DDR2 SDRAM) |
| AH9 | GND | - | Ground for digital and DDR2 SDRAM |
| AH10 | GND | - | Ground for digital and DDR2 SDRAM |
| AH11 | D1VDD18 | - | 1.8V supply (DDR2 SDRAM) |
| AH12 | GND | - | Ground for digital and DDR2 SDRAM |
| AH13 | D1CS1B | O | DDR2 Chip Select/Bank Address |
| AH14 | D1CASB | O | DDR2 Column Address Strobe Signal |
| AH15 | D1ADD11 | O | DDR2 Address Output |
| AH16 | D1ADD7 | O | DDR2 Address Output |
| AH17 | D1ADD10 | O | DDR2 Address Output |
| AH18 | GND | - | Ground for digital and DDR2 SDRAM |
| AH19 | D1VDD18 | - | 1.8V supply (DDR2 SDRAM) |
| AH20 | GND | - | Ground for digital and DDR2 SDRAM |
| AH21 | GND | - | Ground for digital and DDR2 SDRAM |
| AH22 | D1VDD18 | - | 1.8V supply (DDR2 SDRAM) |
| AH23 | GND | - | Ground for digital and DDR2 SDRAM |

| Pin No. | Name | I/O | Description |
|---------|---------------|-----|---|
| AH24 | D1VDD18 | - | 1.8V supply (DDR2 SDRAM) |
| AH25 | GND | - | Ground for digital and DDR2 SDRAM |
| AH26 | GND | - | Ground for digital and DDR2 SDRAM |
| AH27 | GND | - | Ground for digital and DDR2 SDRAM |
| AH28 | GND | - | Ground for digital and DDR2 SDRAM |
| AH29 | GND | - | Ground for digital and DDR2 SDRAM |
| AH30 | RADD22/GADD22 | O | Address bus for external memory and peripheral |
| AH31 | RADD23/GADD23 | O | Address bus for external memory and peripheral |
| AH32 | RADD24/GADD24 | O | Address bus for external memory and peripheral |
| AH33 | RADD25/GADD25 | O | Address bus for external memory and peripheral |
| AJ1 | GND | - | Ground for digital and DDR2 SDRAM |
| AJ2 | D0DM3 | I/O | DDR2 Data Mask |
| AJ3 | D0Q27 | I/O | DDR2 Data Input/Output |
| AJ4 | D0Q25 | I/O | DDR2 Data Input/Output |
| AJ5 | GND | - | Ground for digital and DDR2 SDRAM |
| AJ6 | D1Q26 | I/O | DDR2 Data Input/Output |
| AJ7 | D1Q28 | I/O | DDR2 Data Input/Output |
| AJ8 | GND | - | Ground for digital and DDR2 SDRAM |
| AJ9 | D1VDD18 | - | 1.8V supply (DDR2 SDRAM) |
| AJ10 | D1VDD18 | - | 1.8V supply (DDR2 SDRAM) |
| AJ11 | D1RQ0 | O | DDR2 Pull down (150 ohm) to DDR2 SDRAM GND |
| AJ12 | D1ODT1 | O | DDR2 On Die terminal control |
| AJ13 | D1RQ1 | O | DDR2 Pull up (150 ohm) to DDR2 SDRAM power supply |
| AJ14 | D1ADD4 | O | DDR2 Address Output |
| AJ15 | D1ADD13 | O | DDR2 Address Output |
| AJ16 | D1CKE | O | DDR2 Clock Enable |
| AJ17 | D1BA0 | O | DDR2 Bank Address |
| AJ18 | D1CKERSTB | I | DDR2 Clock Enable External Control 1.8V or 0.0V |
| AJ19 | D1WEB | O | DDR2 Command Write Enable |
| AJ20 | D1VDD18 | - | 1.8V supply (DDR2 SDRAM) |
| AJ21 | D1VDD18 | - | 1.8V supply (DDR2 SDRAM) |
| AJ22 | GND | - | Ground for digital and DDR2 SDRAM |
| AJ23 | D1VDD18 | - | 1.8V supply (DDR2 SDRAM) |
| AJ24 | GND | - | Ground for digital and DDR2 SDRAM |
| AJ25 | FCSB0 | O | Chip select for NOR Flash ROM |
| AJ26 | FCSB2 | O | Chip select for NOR Flash ROM |
| AJ27 | FCSB3 | O | Chip select for NOR Flash ROM |
| AJ28 | GND | - | Ground for digital and DDR2 SDRAM |
| AJ29 | RADD17/GADD17 | O | Address bus for external memory and peripheral |
| AJ30 | RADD18/GADD18 | O | Address bus for external memory and peripheral |
| AJ31 | RADD19/GADD19 | O | Address bus for external memory and peripheral |
| AJ32 | RADD20/GADD20 | O | Address bus for external memory and peripheral |
| AJ33 | RADD21/GADD21 | O | Address bus for external memory and peripheral |
| AK1 | D0DQS3 | I/O | DDR2 Positive Data Strobe |
| AK2 | GND | - | Ground for digital and DDR2 SDRAM |
| AK3 | D0Q24 | I/O | DDR2 Data Input/Output |
| AK4 | GND | - | Ground for digital and DDR2 SDRAM |
| AK5 | D1Q25 | I/O | DDR2 Data Input/Output |
| AK6 | D1Q30 | I/O | DDR2 Data Input/Output |
| AK7 | GND | - | Ground for digital and DDR2 SDRAM |
| AK8 | D1Q29 | I/O | DDR2 Data Input/Output |
| AK9 | D1Q16 | I/O | DDR2 Data Input/Output |
| AK10 | D1Q17 | I/O | DDR2 Data Input/Output |
| AK11 | D1Q20 | I/O | DDR2 Data Input/Output |
| AK12 | D1Q22 | I/O | DDR2 Data Input/Output |
| AK13 | D1RASB | O | Raw Address Strobe Signal |
| AK14 | D1ADD2 | O | DDR2 Address Output |
| AK15 | D1ADD12 | O | DDR2 Address Output |
| AK16 | GND | - | Ground for digital and DDR2 SDRAM |
| AK17 | D1Q6 | I/O | DDR2 Data Input/Output |
| AK18 | D1Q3 | I/O | DDR2 Data Input/Output |

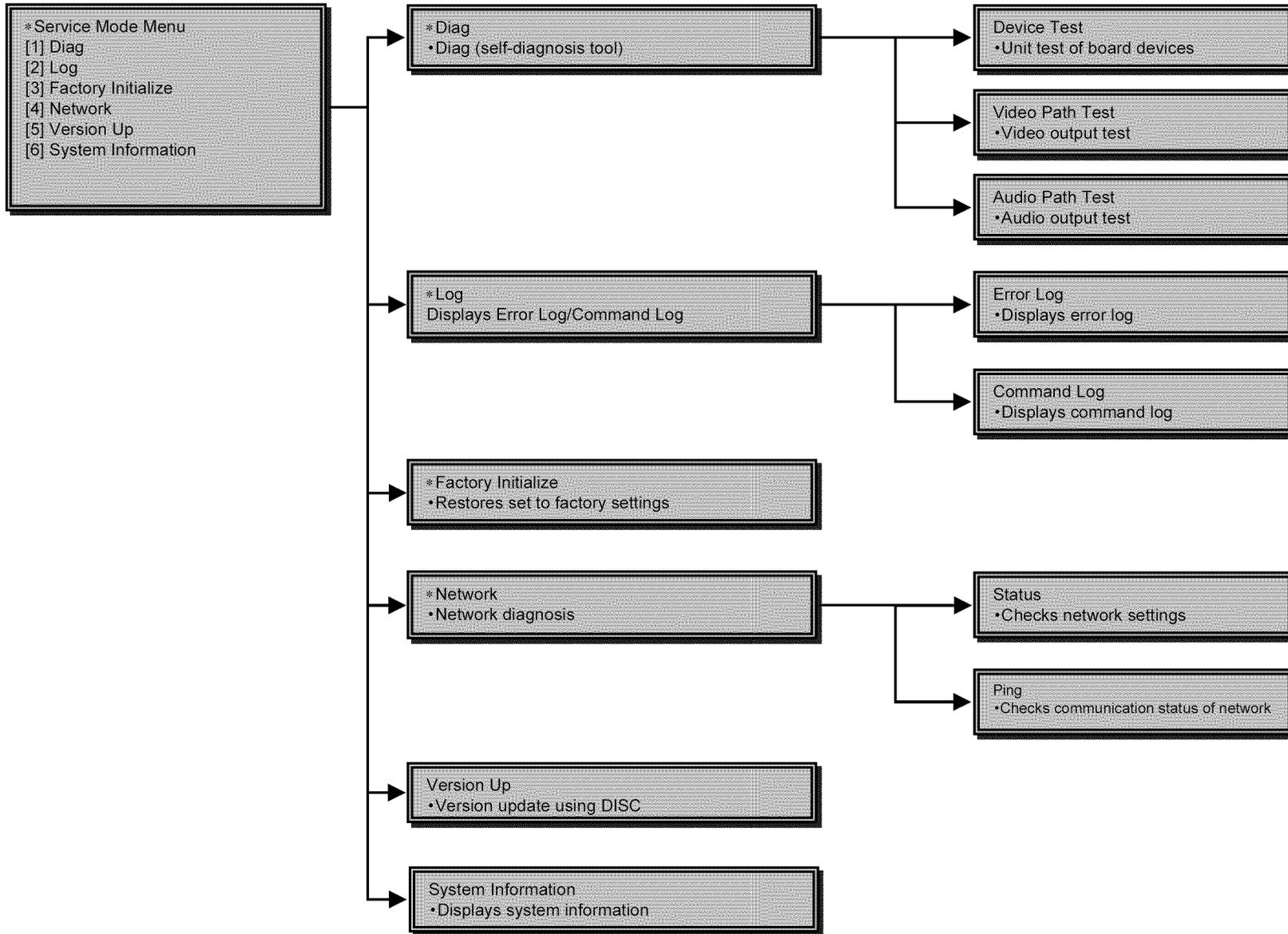
| Pin No. | Name | I/O | Description |
|---------|---------------|-----|--|
| AK19 | D1Q0 | I/O | DDR2 Data Input/Output |
| AK20 | GND | - | Ground for digital and DDR2 SDRAM |
| AK21 | D1Q11 | I/O | DDR2 Data Input/Output |
| AK22 | D1Q14 | I/O | DDR2 Data Input/Output |
| AK23 | GND | - | Ground for digital and DDR2 SDRAM |
| AK24 | D1Q8 | I/O | DDR2 Data Input/Output |
| AK25 | GCSB1 | O | Chip select for external device |
| AK26 | FOEB | O | Output enable for NOR Flash ROM |
| AK27 | FCSB1 | O | Chip select for NOR Flash ROM |
| AK28 | FWEB | O | Write enable for NOR Flash ROM |
| AK29 | RADD12/GADD12 | O | Address bus for external memory and peripheral |
| AK30 | RADD13/GADD13 | O | Address bus for external memory and peripheral |
| AK31 | RADD14/GADD14 | O | Address bus for external memory and peripheral |
| AK32 | RADD15/GADD15 | O | Address bus for external memory and peripheral |
| AK33 | RADD16/GADD16 | O | Address bus for external memory and peripheral |
| AL1 | D0DQS3B | I/O | DDR2 Negative Data Strobe |
| AL2 | GND | - | Ground for digital and DDR2 SDRAM |
| AL3 | GND | - | Ground for digital and DDR2 SDRAM |
| AL4 | D1Q24 | I/O | DDR2 Data Input/Output |
| AL5 | D1Q27 | I/O | DDR2 Data Input/Output |
| AL6 | D1VDD18 | - | 1.8V supply (DDR2 SDRAM) |
| AL7 | D1Q31 | I/O | DDR2 Data Input/Output |
| AL8 | D1Q18 | I/O | DDR2 Data Input/Output |
| AL9 | D1VDD18 | - | 1.8V supply (DDR2 SDRAM) |
| AL10 | D1DM2 | I/O | DDR2 Data Mask |
| AL11 | D1Q21 | I/O | DDR2 Data Input/Output |
| AL12 | D1ADD15 | O | DDR2 Address Output |
| AL13 | D1VDD18 | - | 1.8V supply (DDR2 SDRAM) |
| AL14 | D1ADD6 | O | DDR2 Address Output |
| AL15 | GND | - | Ground for digital and DDR2 SDRAM |
| AL16 | D1ADD3 | O | DDR2 Address Output |
| AL17 | D1Q5 | I/O | DDR2 Data Input/Output |
| AL18 | D1Q4 | I/O | DDR2 Data Input/Output |
| AL19 | D1Q1 | I/O | DDR2 Data Input/Output |
| AL20 | D1Q15 | I/O | DDR2 Data Input/Output |
| AL21 | D1DM1 | I/O | DDR2 Data Mask |
| AL22 | D1Q13 | I/O | DDR2 Data Input/Output |
| AL23 | D1Q12 | I/O | DDR2 Data Input/Output |
| AL24 | D1Q10 | I/O | DDR2 Data Input/Output |
| AL25 | D1VDD18 | - | 1.8V supply (DDR2 SDRAM) |
| AL26 | NALE | O | Address latch enable for NAND Flash ROM |
| AL27 | NCLE | O | Command latch enable for NAND Flash ROM |
| AL28 | GRDYB | I | Ready for external device |
| AL29 | RADD7/GADD7 | O | Address bus for external memory and peripheral |
| AL30 | RADD8/GADD8 | O | Address bus for external memory and peripheral |
| AL31 | RADD9/GADD9 | O | Address bus for external memory and peripheral |
| AL32 | RADD10/GADD10 | O | Address bus for external memory and peripheral |
| AL33 | RADD11/GADD11 | O | Address bus for external memory and peripheral |
| AM1 | VOID | - | This pin is not ball. |
| AM2 | GND | - | Ground for digital and DDR2 SDRAM |
| AM3 | GND | - | Ground for digital and DDR2 SDRAM |
| AM4 | GND | - | Ground for digital and DDR2 SDRAM |
| AM5 | D1DM3 | I/O | DDR2 Data Mask |
| AM6 | GND | - | Ground for digital and DDR2 SDRAM |
| AM7 | GND | - | Ground for digital and DDR2 SDRAM |
| AM8 | D1Q19 | I/O | DDR2 Data Input/Output |
| AM9 | GND | - | Ground for digital and DDR2 SDRAM |
| AM10 | GND | - | Ground for digital and DDR2 SDRAM |
| AM11 | D1Q23 | I/O | DDR2 Data Input/Output |
| AM12 | GND | - | Ground for digital and DDR2 SDRAM |
| AM13 | D1CS0B | O | DDR2 Chip Select |

| Pin No. | Name | I/O | Description |
|---------|-------------|-----|--|
| AM14 | D1ADD5 | O | DDR2 Address Output |
| AM15 | D1VDD18 | - | 1.8V supply (DDR2 SDRAM) |
| AM16 | D1BA1 | O | DDR2 Bank Address |
| AM17 | D1DM0 | I/O | DDR2 Data Mask |
| AM18 | GND | - | Ground for digital and DDR2 SDRAM |
| AM19 | GND | - | Ground for digital and DDR2 SDRAM |
| AM20 | D1Q2 | I/O | DDR2 Data Input/Output |
| AM21 | GND | - | Ground for digital and DDR2 SDRAM |
| AM22 | GND | - | Ground for digital and DDR2 SDRAM |
| AM23 | D1Q9 | I/O | DDR2 Data Input/Output |
| AM24 | GND | - | Ground for digital and DDR2 SDRAM |
| AM25 | GND | - | Ground for digital and DDR2 SDRAM |
| AM26 | NWEB | O | Write enable for NAND Flash ROM |
| AM27 | NRBB | I | Ready/Busy for NAND Flash ROM |
| AM28 | GCSB0 | O | Chip select for external device |
| AM29 | RADD3/GADD3 | O | Address bus for external memory and peripheral |
| AM30 | RADD4/GADD4 | O | Address bus for external memory and peripheral |
| AM31 | RADD5/GADD5 | O | Output enable for NAND FLASH ROM |
| AM32 | RADD6/GADD6 | O | Address bus for external memory and peripheral |
| AM33 | VOID | - | This pin is not ball. |
| AN1 | VOID | - | This pin is not ball. |
| AN2 | VOID | - | This pin is not ball. |
| AN3 | D1DQS3 | I/O | DDR2 Positive Data Strobe |
| AN4 | D1DQS3B | I/O | DDR2 Negative Data Strobe |
| AN5 | GND | - | Ground for digital and DDR2 SDRAM |
| AN6 | D1CLK1 | O | DDR2 Positive Clock |
| AN7 | D1CLK1B | O | DDR2 Negative Clock |
| AN8 | GND | - | Ground for digital and DDR2 SDRAM |
| AN9 | D1DQS2 | I/O | DDR2 Positive Data Strobe |
| AN10 | D1DQS2B | I/O | DDR2 Negative Data Strobe |
| AN11 | GND | - | Ground for digital and DDR2 SDRAM |
| AN12 | D1ODT0 | O | DDR2 On Die terminal control |
| AN13 | D1ADD8 | O | DDR2 Address Output |
| AN14 | D1VDD18 | - | 1.8V supply (DDR2 SDRAM) |
| AN15 | D1ADD1 | O | DDR2 Address Output |
| AN16 | D1Q7 | I/O | DDR2 Data Input/Output |
| AN17 | GND | - | Ground for digital and DDR2 SDRAM |
| AN18 | D1DQS0 | I/O | DDR2 Positive Data Strobe |
| AN19 | D1DQS0B | I/O | DDR2 Negative Data Strobe |
| AN20 | GND | - | Ground for digital and DDR2 SDRAM |
| AN21 | D1CLK0 | O | DDR2 Positive Clock |
| AN22 | D1CLK0B | O | DDR2 Negative Clock |
| AN23 | GND | - | Ground for digital and DDR2 SDRAM |
| AN24 | D1DQS1 | I/O | DDR2 Positive Data Strobe |
| AN25 | D1DQS1B | I/O | DDR2 Negative Data Strobe |
| AN26 | GND | - | Ground for digital and DDR2 SDRAM |
| AN27 | NFOEB | O | Output enable for NAND FLASH ROM |
| AN28 | VDD3 | - | 3.3V supply (I/O buffers) |
| AN29 | RADD0/GADD0 | O | Address bus for external memory and peripheral |
| AN30 | RADD1/GADD1 | O | Address bus for external memory and peripheral |
| AN31 | RADD2/GADD2 | O | Address bus for external memory and peripheral |
| AN32 | VOID | - | This pin is not ball. |
| AN33 | VOID | - | This pin is not ball. |

Main Functions

- **Launching the service mode**
Turn on the AC power from the off state while holding down specific keys (<PLAY> key, <STOP> key and <OPEN/CLOSE> key) on the front panel. Release the keys when “SERVICE” appears on the front display tube. The unit is in the service mode when the service mode screen appears on the monitor. Perform operation using the remote control.
- **ErrorLog/CommandLog display**
Displays the error log and command log. Displayed contents can also be saved in an USB memory device.
- **Diag**
Performs unit test of devices installed on the board.
- **Factory Initialize**
Restores the set to its factory settings.
- **Network**
Checks the network connection.
(1) “Ifconfig” displays the network settings of the set.
Executing this function will run the #ifconfig command and display the result.
(2) “Ping” checks the communication status between the network and terminal of the specified IP address.
Executing this function will run the #ping command and display the result.
- **Version Up (version update)**
Performs version update using a disc.
- **System Information**
Displays the system information of the set.
Displays information such as the software version, drive information, etc.

Menu Tree



Service Mode Menu (Top Menu)

Description:

This is the top menu of service mode.
Each function is accessed from this screen.

Operation:

- [1] Moves to Diag screen
- [2] Moves to Log (Error Log/Command Log display) screen
- [3] Moves to Factory Initialize (factory settings) screen
- [4] Moves to Network screen
- [5] Moves to Version Up (DISC version update) screen
- [6] Moves to System Information (system information display) screen
- [UP] [DOWN] Moves the cursor
- [ENT] Moves to the screen of the item selected with the cursor

* Cursor is not displayed when the menu is first displayed.

Display tube:

Test appears on the respective display tube when operating the cursor or menu keys.
"SERVICE" is selected by default.

Character strings displayed on the display tube:

Diag: S-DIAG
Log: S-LOG
Factory Initialize: S-FINIT
Network: S-NET
Version Up: S-VUP
System Information: S-INFO

*Service Mode Menu

- [1] Diag
- [2] Log
- [3] Factory Initialize
- [4] Network
- [5] Version Up
- [6] System Information

HELP : [DOWN] [ENT] [(NUM)]

HELP (currently available keys, etc.) is displayed

Diag (Device Test)

Description:

This screen is used to test devices mounted on the board.
This screen is also used to perform video and audio tests.

Screen 1: Selects the test category

Operation:

[LEFT] [RIGHT] Selects the category
[DOWN] [ENT] Moves to the selected category

Screen 2: Device test

Selects the device to test after selecting Device Test in screen 1.

Operation:

[LEFT] [RIGHT] Selects the device to test
[ENT] Executes the test
[UP] Returns to selection of test category
[DOWN] Selects the cursor during IFCOn and D terminal tests
 Selects the cursor during IFCOn and D terminal tests

>List of test categories

Device Test
Video Test
Audio Test

>Device Test: List of devices

USB Host (*1)
D/A Converter (*2)
D terminal (*3) <- Check using measurement device
Ifcon <- Check using visual inspection

*1) Output of various logs can be performed for the first USB host check only. Logs cannot be output for following checks.

*2) 8 [ch] D/A Converter test is not available for the basic model.

*3) JP models only

Display tube:

Category selected: Device Test : D-DEV
 Video Test : D-VIDEO
 Audio Test : D-AUDIO

Device selected: USB Host : D-USB
 D/A Converter : D-DAC
 D Terminal : D-TERM

USB Host checked: : USB CHK
 All items OK : USB OK
 Other than above : USB NG

D/A Converter checked: : DAC CHK
 All items OK : DAC OK
 Other than above : DAC NG

(Screen 1)

* Diag

Category: **Device Test**

(Screen 2)

* Diag

Category: **Device Test**

Device: **USB Host**

USB Media check ... NG
Register Read check ... OK
Register Read check ...

Checking...

HELP: [RIGHT] [UP] [ENT] [RET]

Log: Error Log/Command Log (Output of each Log)

Description:

This screen displays the contents of each log.

Screen 1: Selects the type of log to display

Operation:

[1] Moves to the Error Log output screen
 [2] Moves to the Command Log output screen
 [UP] [DOWN] Moves the cursor
 [ENT] Moves to the item selected with the cursor
 [RET] Returns to the top menu of the service mode

Screen 2: Displays the Error Log

Operation:

[LEFT] Returns to the previous page
 [RIGHT] Moves to the next page
 [RET] Returns to the screen (screen 1) that selects the log type
 [RED] Writes the log contents to a USB memory device

Screen 3: Displays the Command Log

Operation:

[LEFT] Returns to the previous page
 [RIGHT] Moves to the next page
 [RET] Returns to the screen (screen 1) that selects the log type
 [RED] Writes the log contents to a USB memory device

Display tube:

Log type selected Error Log: S-ELOG
 Command Log: S-CLOG
 During log display Page display ex) 1/50

>Viewing the log display

Error Log:

```
001 08/01/01 00: 53: 19: [ErrCode: 080400000000]
[Number (starting from old log) ] [date] [time] [error code]
```

Command Log:

```
0001 08/01/01 00: 53: 19: 0 POWER 0
[Number (starting from old log) ] [date] [time] [count] [command name]
[Edge 0: on 1: off]
```

*About copying log to USB memory device

Press the [RED] button in each log display screen with the USB memory device inserted into the set

Error Log:

When getErrLogFile.trm file exists in the USB memory device, errlog.log file is output.

Command Log:

When getCmdLogFile.trm file exists in the USB memory device, cmdlog.log file is output.

*This function cannot be used when performing USB Host test in the Diag screen.

Writing to a USB memory device takes a few seconds. Wait sufficiently before removing device.

(Screen 1)

* Select Log

[1] Error Log

[2] Command Log

(Screen 2)

* Error Log

```
001 08/01/01 00: 53: 19: [ErrCode: 080400000000]
002 08/01/01 00: 53: 45: [ErrCode: 080400252100]
003 08/01/01 00: 54: 00: [ErrCode: 080400005555]
:
:
```

(Screen 3)

* Command Log

```
0001 08/01/01 00: 53: 19: 0 POWER 0
0002 08/01/01 00: 53: 45: 1 POWER 1
0003 08/01/01 00: 54: 00: 79 OPEN_CLOSE 0
:
:
```

< Page 1/50 >

Diag (Video/Audio Test)

Description:

This screen performs video and audio tests.

Screen 1: When video test category is selected

Operation:

[ENT] Shows/hides the color bar

[UP] [RET] Returns to the selection of test category

Screen 2: When audio test category is selected

Operation:

[ENT] Plays back/stops the tone sound

[UP] [RET] Returns to the selection of test category

>Video test

Outputs a color to all output terminals.

(In the case of HDMI, the device must be connected when launching the function)

>Audio test

Outputs a tone sound to all output terminals.

(In the case of HDMI, the device must be connected when launching the function)

Display tube:

During video test: D-VIDEO

During audio test: D-AUDIO

(Screen 1)

* Diag

Category: Video Test

[ENT] Show Color Bar

(Screen 2)

* Diag

Category: Audio Test

[ENT] Generate TONE Sound

HELP: [UP] [ENT] [RET]

Factory Initialize (Factory Settings)

Description:

This screen returns the set to the factory settings.
All changes settings will be restored to the factory settings, and all saved titles will be deleted. Note that executing this function does not complete the initialization process. The initialization process is completed by rebooting the set after operation is performed.
Normal rebooting is required for the initialization to take effect. Initialization is not complete when rebooting in special modes such as the service mode.

Screen 1

Press [ENT] in this screen when restoring the set to its factory settings.
All saved titles will also be deleted.

Operation:

[ENT] Initialize the set to its factory settings
[RET] Return to the top menu of the service mode

Screen 2

This is the screen that is displayed after performing initialization.
The initialization process is completed by rebooting the set.
Remove the AC power cord and insert the AC power cord again.
*Operations in other service menus can also be performed.

Display tube:

During initialization: SETTING
When initialization is OK: INIT-OK (Screen 2)
When initialization is NG: INIT-NG

(Screen 1)

* Factory Initialize

[ENT] Start Initialize
[RET] Return to Top Menu

(Screen 2)

* Factory Initialize

Reboot to complete.

[RET] Return to Top Menu

HELP: [RET]

Network (Network Test Diagnosis Screen: Ifconfig)

Description:
Network menu
Each network diagnosis function is accessed from this screen.

Screen 1: Ifconfig test
Operation:
[ENT] Executes the Ifconfig command (displays network settings)
[RIGHT] Moves to the Ping test
[RTN] Returns to the top menu of the service mode

Screen 2: Ping test
Screen:
[LEFT] Moves to the Ifconfig test
[RTN] Returns to the top menu of the service mode
* See next page for details on Ping test

Screen 3: When executing the Ifconfig test
Displays the output result of the Ifconfig command
Operation:
[ENT] Executes the command again
[RIGHT] Moves to the Ping test
[RTN] Returns to the top menu of the service mode

Display tube:
S-NET

(Screen 1)

* Network

Test: **Ifconfig** Ping

(Screen 2)

* Network

Test: **Ifconfig** **Ping**

Ping To:

[START]

(Screen 3)

* Network

Test: **Ifconfig** Ping

```
Link encap: Ethernet HWaddr 00: 16: 01: 85: 21: A3
inet addr: 43.17.110.225 Bcast: 43.17.110.255 Mask: 255.255.255.0
inet6 addr: fe80:: 216: 1ff: fe85: 21a3/64 Scope: Link
UP BROADCAST RUNNING MULTICAST MTU: 1500 Metric: 1
RX packets: 533280 errors: 0 dropped: 0 overruns: 0 frame: 0
TX packets: 219639 errors: 0 dropped: 0 overruns: 0 carrier: 0
collisions: 0 txqueuelen: 1000
RX bytes: 44569483 (42.5 MiB) TX bytes: 46206300 (44.0 MiB)
Interrupt: 217 Base address: 0x9c00
```

HELP: [ENT]: Re/Exe [RIGHT]

* May differ slightly from the actual screens

Network (Network Test Diagnosis Screen: Ping)

Description:
Ping test

Screen 1: Ping test

Operation:

[UP] Sets the IP address of the Ping destination
[DOWN] Prepares for execution
[RTN] Returns to the top menu of the service mode

Screen 2: Specifies the IP address of the Ping destination (IP input mode)

Ping To: Input the IP address by pressing [ENT] when highlighted

Operation:

[ENT] Ends input
[RTN] Ends input
[LEFT] Ends input, and moves to the Ifconfig test
[(NUM)] Inputs characters '0-9'
[TIME] Inputs character '.'
[CLEAR] Back space

Screen 3: When executing Ping test

Ping is executed when pressing [ENT] while [START] is highlighted.

Operation:

[ENT] Executes the Ping test
[UP] Sets the IP address of the Ping destination
[DOWN] Prepares for execution
[RTN] Returns to the top menu of the service mode

Display tube:

S-NET

(Screen 1)

* Network

Test: Ifconfig Ping

Ping To: [START]

(Screen 2)

* Network

Test: Ifconfig Ping

Ping To: > 172.16.200.13

[ENT]: Release

[RET]: Release

(Screen 3)

* Network

Test: Ifconfig Ping

Ping To: 172.16.200.13

[START]

PING 172.16.200.13 (172.16.200.13) 56 (84) bytes of data.
64 bytes from 172.16.200.13: icmp_seq=0 ttl=64 time=0.022 ms

--- 172.16.200.13 ping statistics ---

1 packets transmitted, 1 received, 0% packet loss, time 0ms
rtt min/avg/max/mdev=0.022/0.022/0.022/0.000 ms, pipe 2

HELP: [ENT]: Start [UP] [LEFT]

* May differ slightly from the actual screens

Version Up (Version Update using DISC)

Description:

This screen performs version updates using DISC.

Screen 1: Screen when entering the Version Up menu

Operation:

[ENT] Starts update using DISC -> (opens tray and displays screen 2)
[RET] Returns to the top menu of the service mode

Screen 2: Insert version update DISC

Operation:

[ENT] Closes the tray and checks the DISC
[RET] Cancels operation (closes the tray and returns to screen 1)

Screen 3: During check -> OK

Operation:

Automatically reboots the set

Screen 4: During check -> NG

Operation:

Outputs [Error] (content of error) and returns to screen 2

Display tube:

| | |
|-----------------------------|---------|
| When DISC is inserted | V-INSCD |
| When DISC cannot be mounted | V-NODSC |
| When check is NG | V-CHKNG |
| When check is OK | V-CHKOK |
| When rebooting | REBOOT |

(Screen 1)

* Version Updater

[ENT] Start Update
[RET] Return to Top Menu

(Screen 2)

* Version Updater

Insert update DISC ...

[ENT] Tray Close and Check start
[RET] Cancel

(Screen 3)

* Version Updater

Now, mounting and checking... OK

(Screen 4)

* Version Updater

Now, mounting and checking...

[Error] Can't use DISC!

HELP: [ENT] [RET]

System Information (System Information Display)

Description:

This screen displays system information.

Operation:

[ENT] Measures Δ IOP of the drive (takes a few seconds: 1 time only)
 [RET] Returns to the top menu of the service mode

*When measuring Δ IOP,

Version Up function in the Service Mode menu will no longer be available.

Displayed contents:

| | |
|--------------------------------------|--|
| Model name | Model |
| Destination | Dest |
| IP address | IP |
| Mac address | Mac |
| CPU version | CPU <- [FirmVersion] [GenerationVersion] |
| NBL version | NBL |
| Kernel version | Kernel |
| Host version | Host <- [HostVersion] [ReleaseVersion] |
| Optical disc drive | Drive <- [Model] [FirmRevision] [SerialNumber] |
| Drive usage time | LTime [Media]: [LTime]/[Δ IOP] |
| | / Δ IOP / Δ IOP |
| Δ IOP temperature measurement | dIOP_TEMP |
| IFCon version | IFCon <- B0: [Block0 version] B1: [Block1 version] |
| IFCon Firm date | FirmDate |
| Set temperature | Temp <- [°C] |

Display tube:

Host version display
 *01.0.002 displayed as 010 002

* System Information

```

Model      : BDP3G-SU
Dest       : UC
IP         : 172.16.102.32
Mac        : 00:1a:80:d0:47:65
CPU        : E0.032.0[F021]
NBL        : BDP3G 3.1.0
Kernel     : BDP3G-3.1.0
Host       : 01.0.002
            20080121D00 ...
Drive      : BDP200 1.01 @BPD0000557&__40
LTime      : BD          : [ 0:00] / [ 1]
            /dIOP DVD   : [ 0:11] / [ 5]
            CD          : [ 0:50] / [ 0]
            dIOP_TEMP: [ 0]
Ifcon      : B0: 0x03   B1: 0x01
            FirmDate: 03/07 11:55
Temp       : 34 [degC]
[RET]      : TopMenu
    
```

SECTION 8 ERROR LOG LIST

[Operation] How to confirm

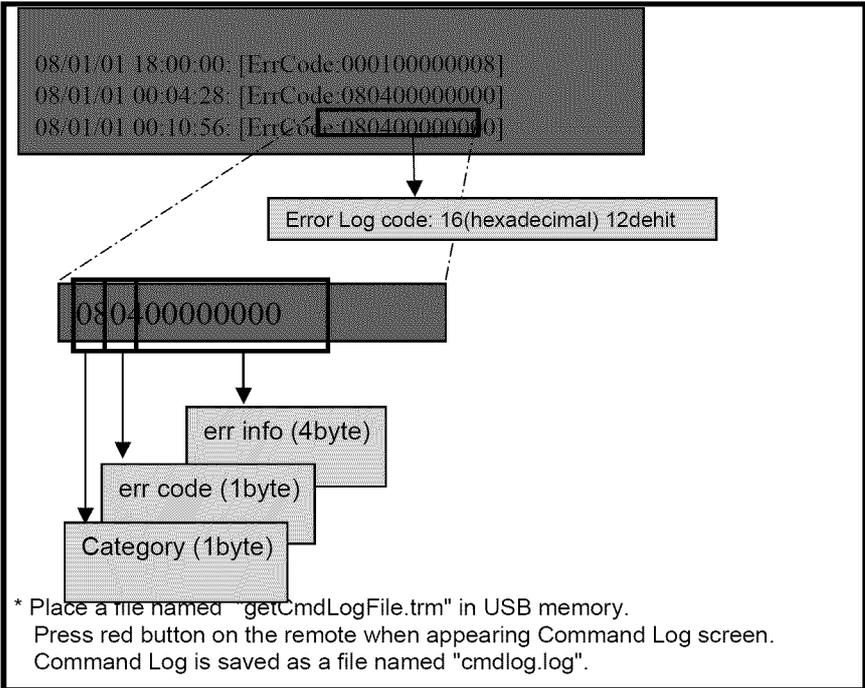
<1> Display method

- 1-1 Plug AC code during "PLAY" button, "STOP" button and "OPEN/CLOSE" button, then, go to service mode.
- 1-2 Select "[2] Log" -> "[1] Error Log" on Menu screen.

<2> Save Error Log in USB memory.

- 2-1 Prepare USB memory and place a named file as "getErrLogFile.trm" in the root directory.
- 2-2 Insert this USB memory and display "Error Log" the same as "<1>".
- 2-3 Press red button on the remote after appearing Error Log.
- 2-4 "Error log" is saved as file named "errlog.log" in USB memory.

<3> Error log example



Defect list which is saved as Error log

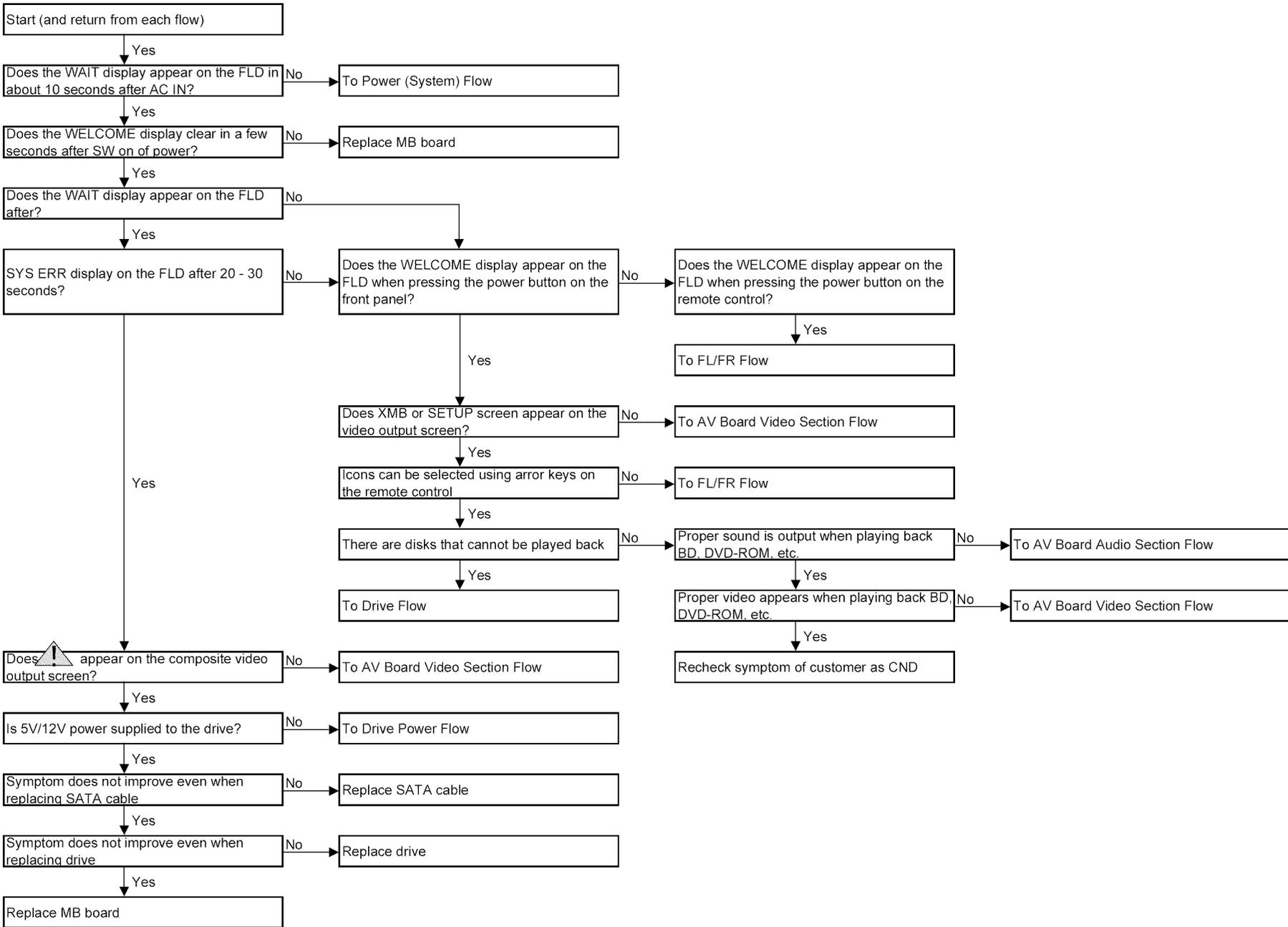
| DB series | Drive series | PB series | System series |
|------------------------------------|--------------------------|-----------------------------|---|
| All kinds of Mount error | No connection cable | Disc dirty, scratching | IF-Con connection error |
| All kinds of external memory error | All kinds of SATA error | No a designated information | Network error |
| Non a designated information | Drive defect | Different region | All kinds of Device error (ex. Audio DAC) |
| All kinds of file access error | Tray defect | Decode error | NAND FLASH ROM access error |
| | Disc error | | Increase of temperature of set (FAN defect) |
| | All kinds of Servo error | | |
| | Access error | | |

Error Log list

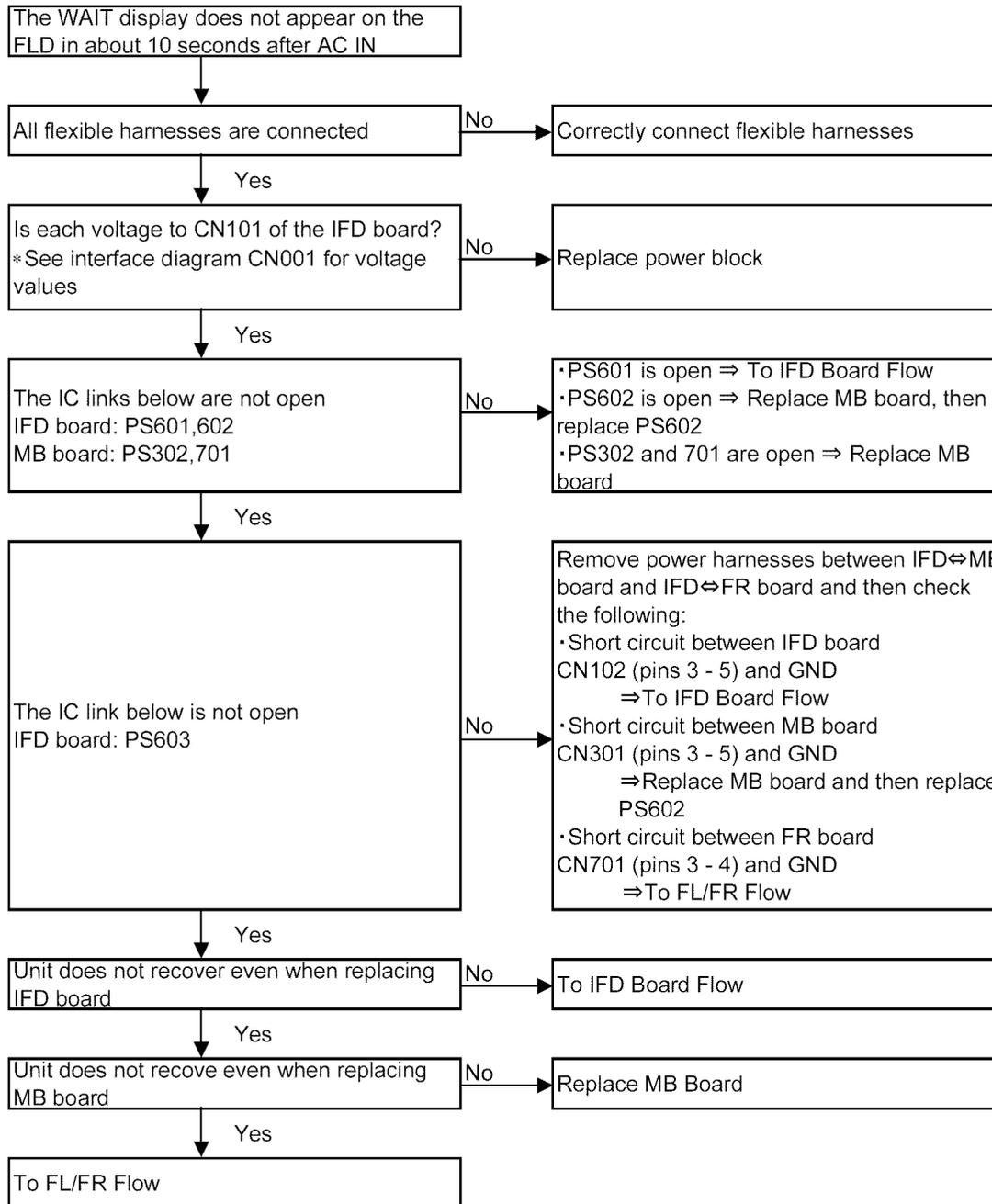
| Error Log information (6byte) | | | | | | | Service response | Remarks |
|---|--|------------------|-----------|----------|--------|--|---|--|
| Category (1byte) | err_code (1byte) | err_info (4byte) | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | |
| Error code Items | Symptoms | | | | | | | |
| 0x00 system-related ERRLOG_CATEGORY_SYSTEM | 0x01 CSI Timeout (Mainly ITcon communication Error) | csi_id | - (*2) | - (*2) | - (*2) | | Exchange a Chip equivalent to id or EMMA(MB board) | A list of problems •Transmission OnlyDevice (ex. DAC 2ch/8ch, ES DAC 2ch/8ch device) Write "Log data" on your repair data when transmission interrupt task completion time is over •Transmission and receiving Device (ex. IFcon device) Write "Log data" on your repair data when receiving interrupt task completion time is over •Specifications regarding other VIDEO_GLUE or HDE are not clear. •ID (Driver/Common/CSI/if/csi_id_bdp3g_ryoushi.h) CSI_ID_DAC_2CH = 0x00, /* Audio DAC AK4385A 2ch Write only */ CSI_ID_DAC_8CH = 0x01, /* Audio DAC AK4358 8ch Write only*/ CSI_ID_DAC_2CH_ES = 0x02, /* Audio DAC PCM1796 2ch Write only for ES*/ CSI_ID_DAC_8CH_ES = 0x03, /* Audio DACs PCM1791A 2ch*4 Write only for ES*/ CSI_ID_VIDEO_GLUE = 0x04, /* VIDEO Glue for ES */ CSI_ID_HDE1 = 0x05, /* HD Enhancer1 for ES*/ CSI_ID_HDE2 = 0x06, /* HD Enhancer2 for ES*/ CSI_ID_CC_UCOM = 0x07, /* micro-controller for CC*/ CSI_ID_ITCON = 0x08, /* ITcon */ |
| | 0x02 I2C communication Timeout | i2c_id | - (*2) | - (*2) | - (*2) | | Exchange a Chip equivalent to id or EMMA(MB board) | A list of problems •Write "Log data" on your repair data when transmission interrupt task time is over. •ID (Driver/Common/I2C/if/i2c_id_bdp3g_ryoushi.h) I2C_ID_HDMI_A = 0x00, /* External HDMI (sub-addrA) Sil9134 */ I2C_ID_HDMI_B = 0x01, /* External HDMI (sub-addrB) Sil9134 */ I2C_ID_SCALER = 0x02, /* 1080p SCALER */ I2C_ID_HDMI_INTERNAL_A = 0x03, /* EMMA3P Internal HDMI I2C-A */ I2C_ID_HDMI_INTERNAL_B = 0x04, /* EMMA3P Internal HDMI I2C-B */ |
| | 0x03 HDMI device ID failure | VendorId | - (*2) | DeviceId | - (*2) | | Exchange a EMMA(MB board). Exchange a HDMI device in case of ES model. | |
| 0x02 Playback-related ERRLOG_CATEGORY_PB | 0x00 Read error | - (*2) | - (*2) | - (*2) | - (*2) | Confirm Disc scratching and dirt | Read Error in "Read Error.Info" stream of NaviPack is not target. | |
| | 0x01 Wrong Region | - (*2) | - (*2) | - (*2) | - (*2) | Can't playback due to wrong Region | | |
| | 0x02 Decode error | - (*2) | - (*2) | - (*2) | - (*2) | Stream problem | Error code is output when dictating EMMA. There is a possibility that back to back error code is found. | |
| | 0x03 AACS verify error | - (*2) | - (*2) | - (*2) | - (*2) | It seems Disc infraction | In case ReqAacsPmVerifyUsageHash is error | |
| | 0x04 Wrong TV system (DVD-Video) | - (*2) | - (*2) | - (*2) | - (*2) | It seems Disc infraction | Drive stop when a mixed TV_system in Disc by DVD-Video is found. | |
| 0x04 Disc·Drive·Tray -related ERRLOG_CATEGORY_DISC | 0x00 Drive communication error | opcode | ercd | | | The first is key operation again , the second drive exchange | EMMA error Reboot a system when occurring the problem | |
| | 0x01 Drive mecha error | opcode | sense_key | | | Service repair | Reboot a system when occurring the problem | |
| | 0x02 Tray "Open/Close" Error | - (*2) | - (*2) | - (*2) | - (*2) | The first is key operation again , the second drive exchange | Abnormal LU:(Abnormal Disc loading) | |
| | 0x03 Command time out | cdb | | | | The first is key operation again , the second drive exchange | Immediate timeout Reboot a system when occurring the problem | |

| Error Log information (6byte) | | | | | | Service response | Remarks |
|---|--|--------------------------------|--------|--------|---|--|--|
| Category (1byte) | err_code (1byte) | err_info (4byte) | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | |
| Error code Items | Symptoms | | | | | | |
| 0x05 Temperature -related ERRLOG_CATEGORY_THERMO | 0x01 Shutdown by set temperature rise | Temperature information (8bit) | - (*2) | - (*2) | - (*2) | Check environmental temperature around the unit | A list of problems -Write "Log data" on your repair data when Thermal Shutdown occurs on Temperature rise . |
| | 0x02 FAN problem | | - (*2) | - (*2) | - (*2) | Exchange Fan | A list of problems -Write "Log" on your repair data when FAN DET is detected by fan failure. |
| 0x08 DB -related ERRLOG_CATEGORY_DB | 0x01 video filesystem mount error | | - (*2) | - (*2) | - (*2) | Exchange for a different disc | |
| | 0x02 photo filesystem mount error | | - (*2) | - (*2) | - (*2) | Exchange for a different disc | |
| | 0x03 video database mount error | | - (*2) | - (*2) | - (*2) | Exchange for a different disc | |
| | 0x04 photo database mount error | | - (*2) | - (*2) | - (*2) | Exchange for a different disc | |
| | 0x05 usb mount error | | - (*2) | - (*2) | - (*2) | Exchange for a different USB | |
| | 0x11 video unplayable | | - (*2) | - (*2) | - (*2) | Exchange for a different disc | |
| | 0x12 video unplayable(invalid region) | | - (*2) | - (*2) | - (*2) | Check the destination, exchange for a different disc | |
| | 0x13 video unplayable(invalid tv system) | | - (*2) | - (*2) | - (*2) | Check the destination, exchange for a different disc | |
| | 0x14 video unplayable(pin lock) | | - (*2) | - (*2) | - (*2) | | |
| | 0x15 video unplayable(parental lock) | | - (*2) | - (*2) | - (*2) | | |
| | 0x21 virtualpackage authentication error | | - (*2) | - (*2) | - (*2) | Delete BD data | |
| | 0x31 invalid disc | | - (*2) | - (*2) | - (*2) | Exchange for a different disc | |
| | 0x32 disc read error | | - (*2) | - (*2) | - (*2) | Exchange for a different disc | |
| | 0x41 buda read error | | - (*2) | - (*2) | - (*2) | Exchange for a different USB | |
| | 0x42 buda write error | | - (*2) | - (*2) | - (*2) | Exchange for a different USB | |
| 0x51 ada read error | | - (*2) | - (*2) | - (*2) | Exchange for a different disc, initialize | There is a possibility that "read/write" of BD-J has problem or "NAND Flash ROM" may be broken | |
| 0x52 ada write error | | - (*2) | - (*2) | - (*2) | Exchange for a different disc, initialize | There is a possibility that "read/write" of BD-J has problem or "NAND Flash ROM" may be broken | |

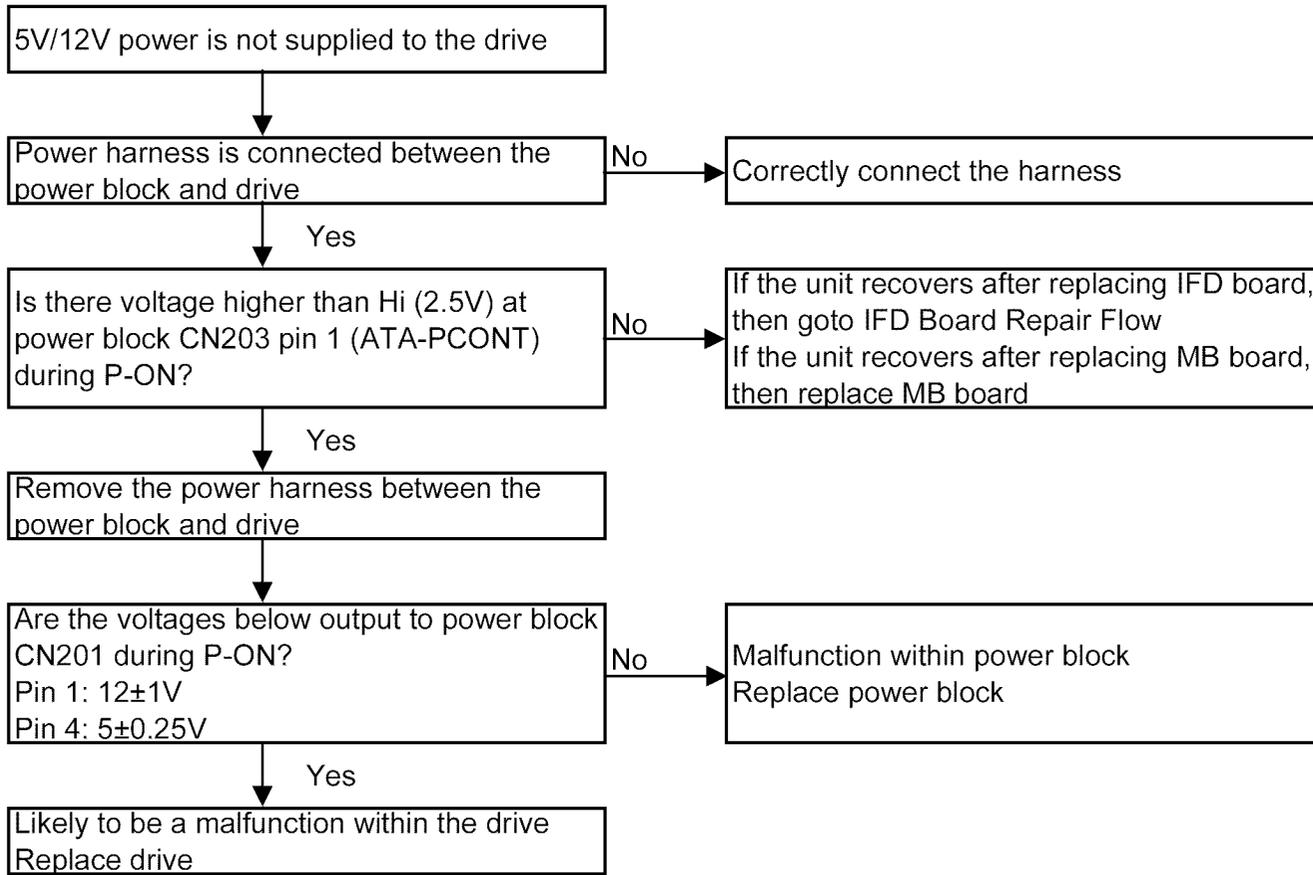
Main Flow



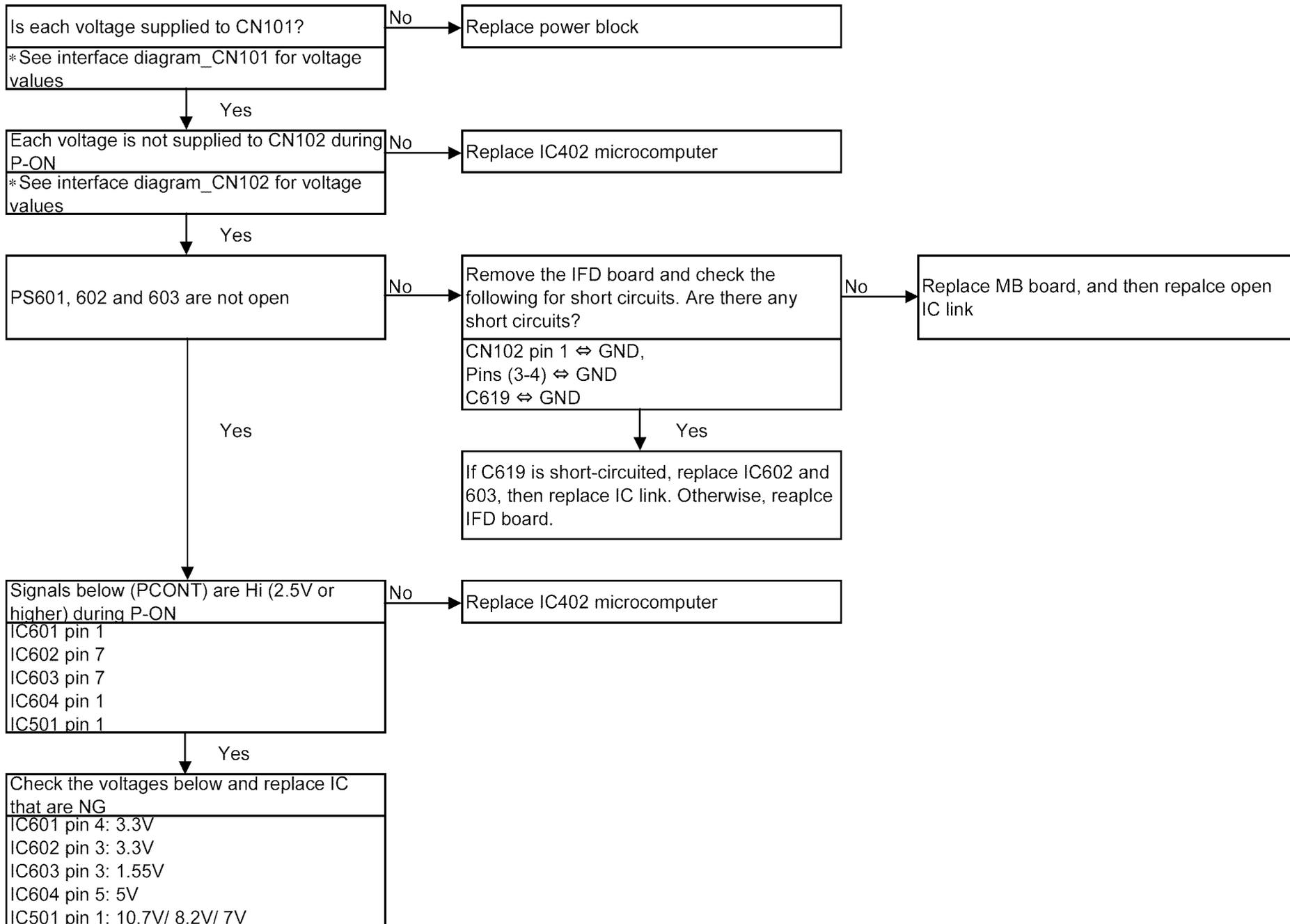
Power (System) Flow



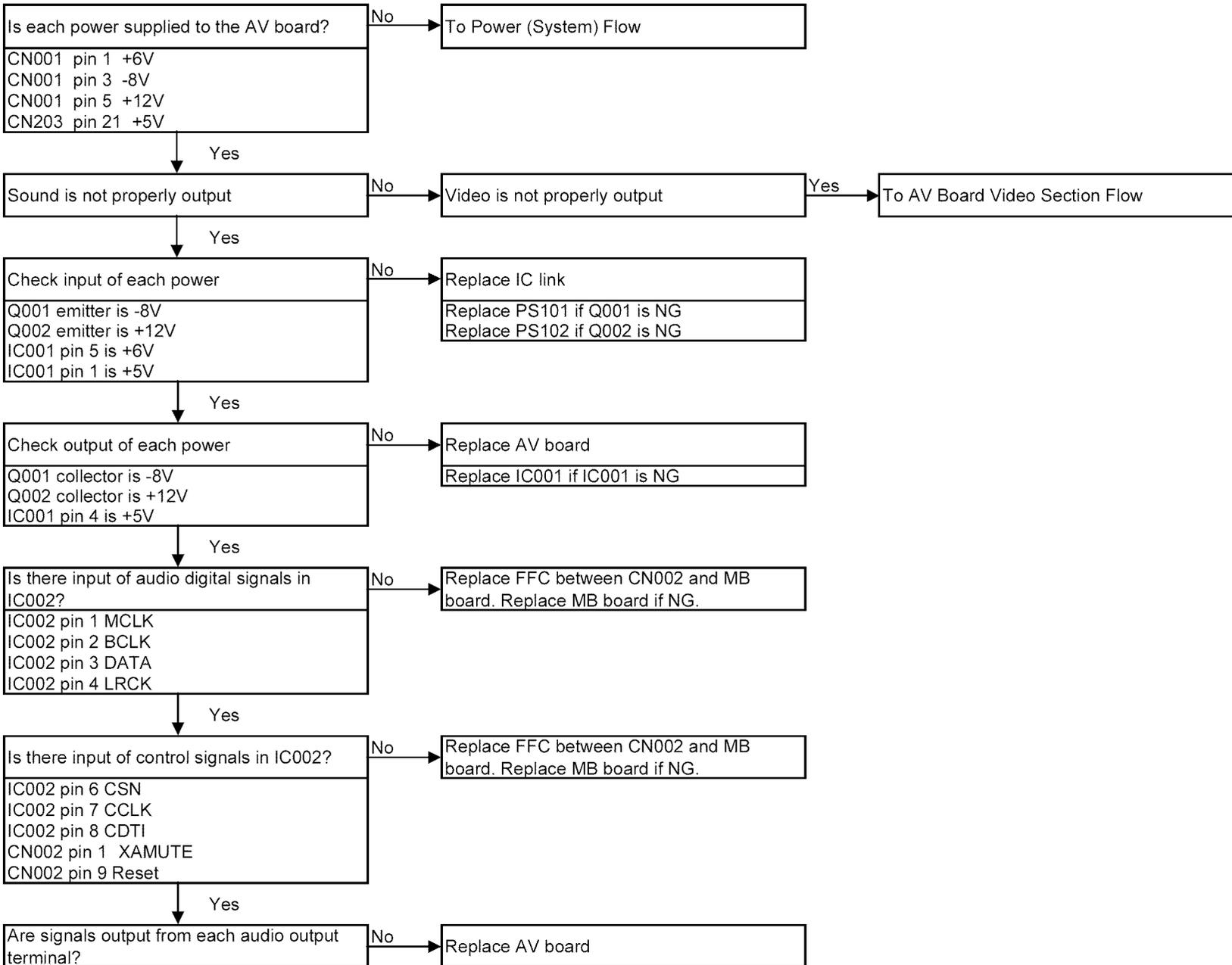
Drive Power Flow



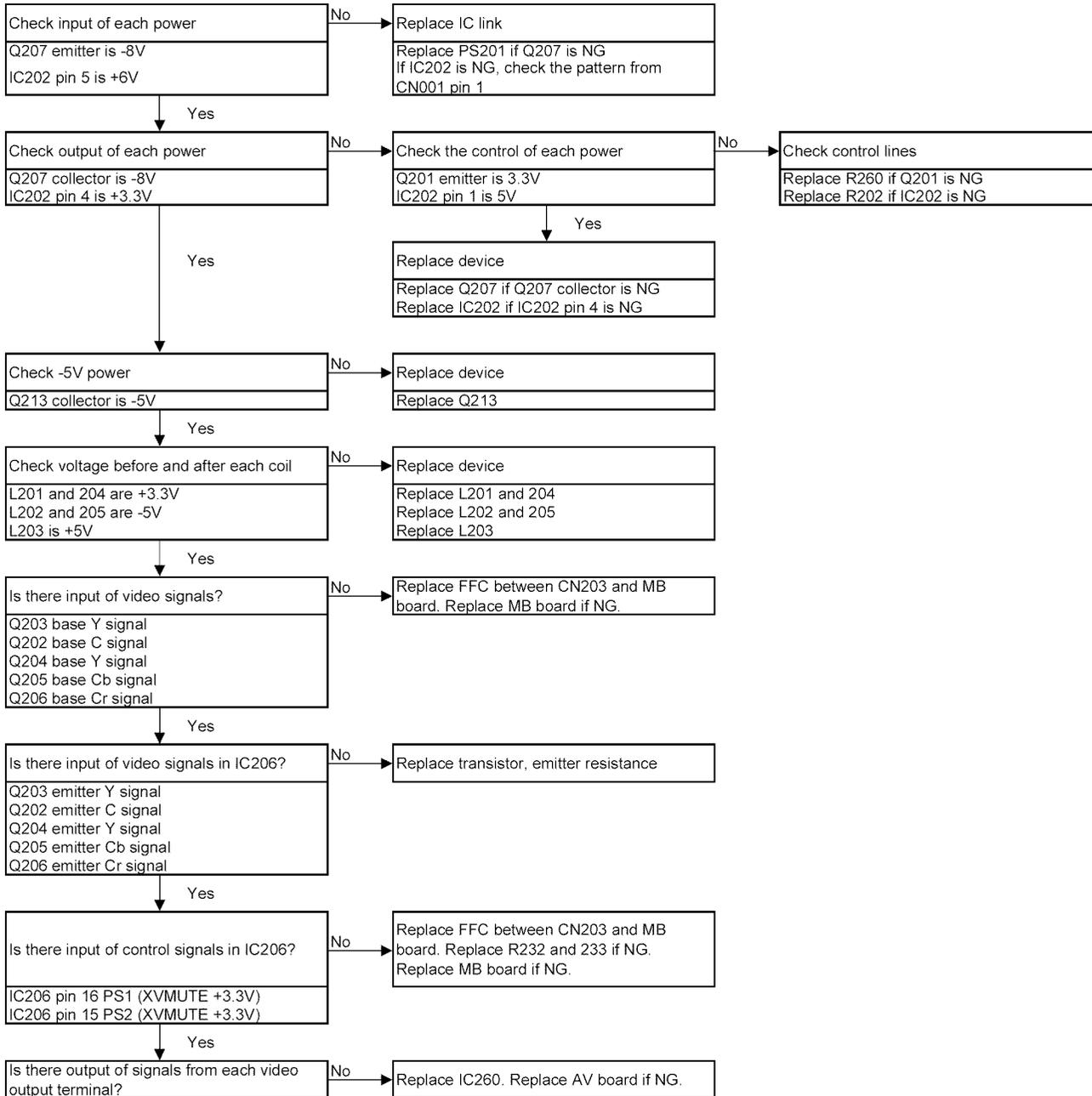
IFD Board Flow



AV Board Audio Section Flow

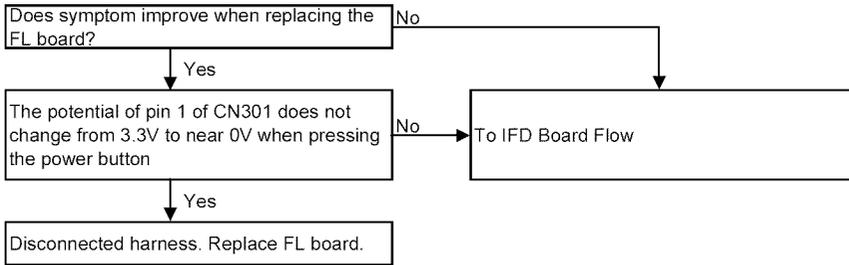


AV Board Video Section Flow

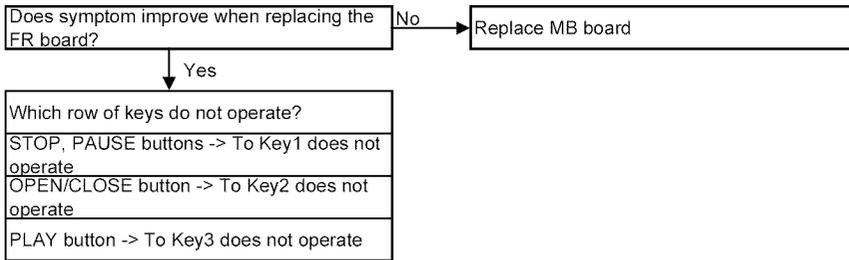


FL/FR Flow (1/3)

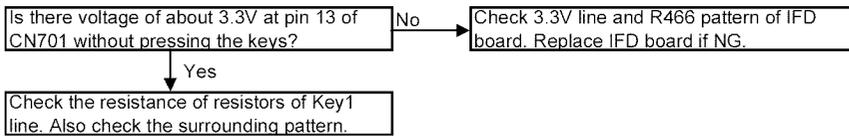
Power button on the main unit does not work



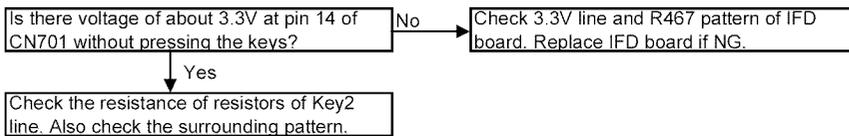
Key operations cannot be made on the main



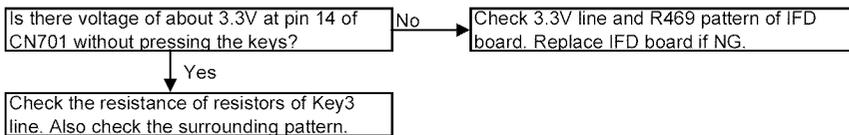
Key1 does not operate



Key2 does not operate



Key3 does not operate

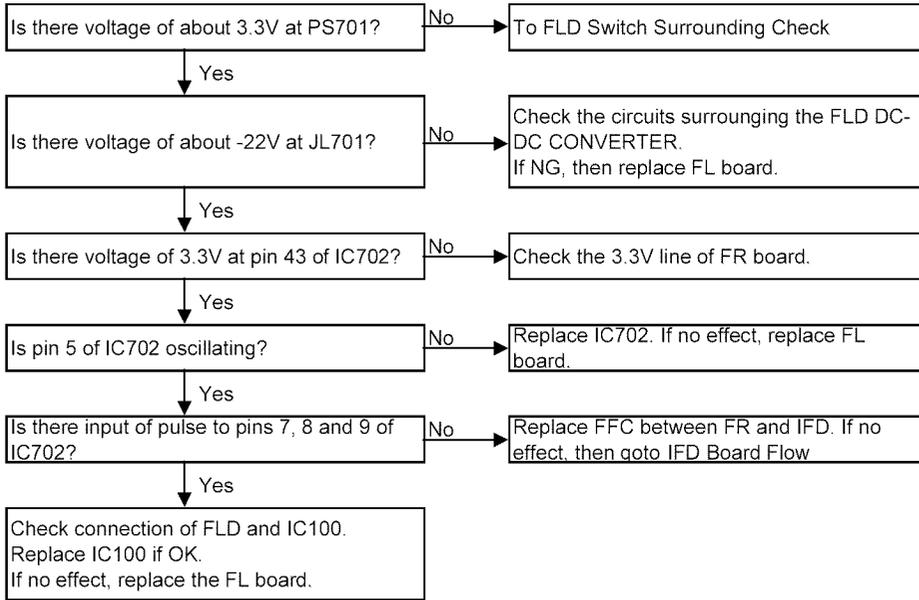


Reference: Relationship of Buttons and Voltages

| KEY0 | KEY1 | KEY2 | KEY3 | Typ voltage |
|----------|----------|------------|----------|-------------|
| Unpushed | Unpushed | Unpushed | Unpushed | 3.3V |
| | STOP | | | 1.01V |
| | Pause | | | 0.595V |
| Power | | OPEN/CLOSE | PLAY | 0V |

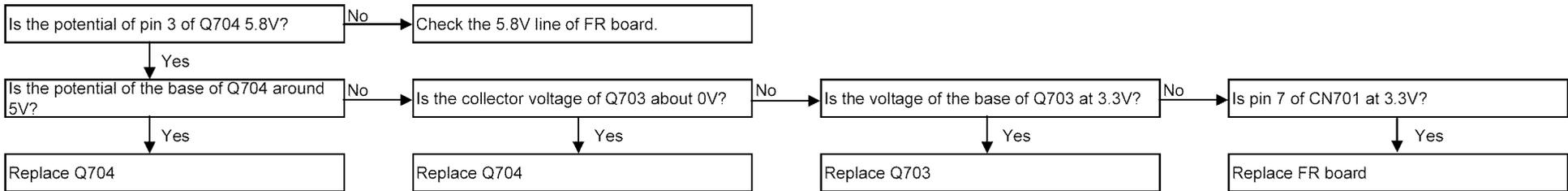
FL/FR Flow (2/3)

FLD does not light



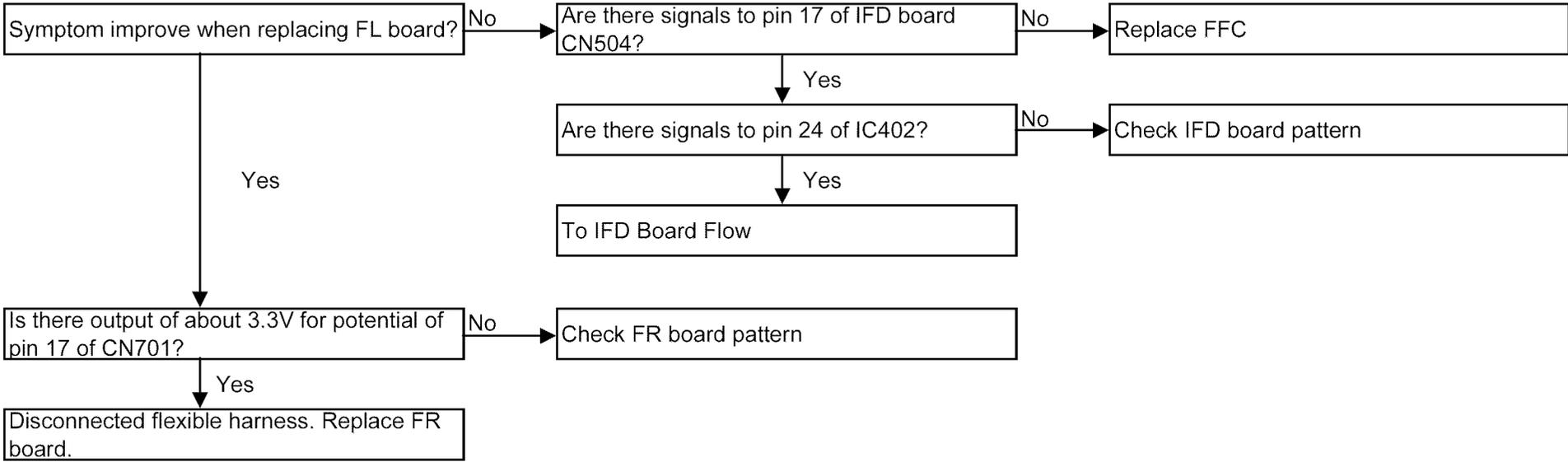
8-6

FLD Switch Surrounding Check

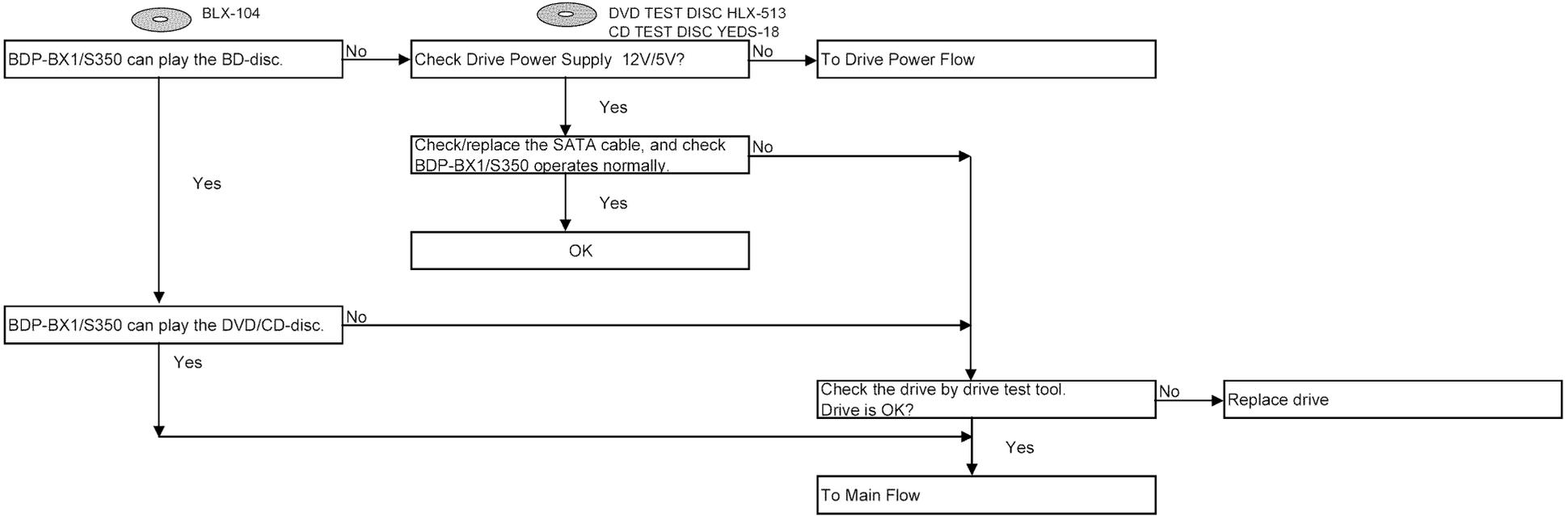


FL/FR Flow (3/3)

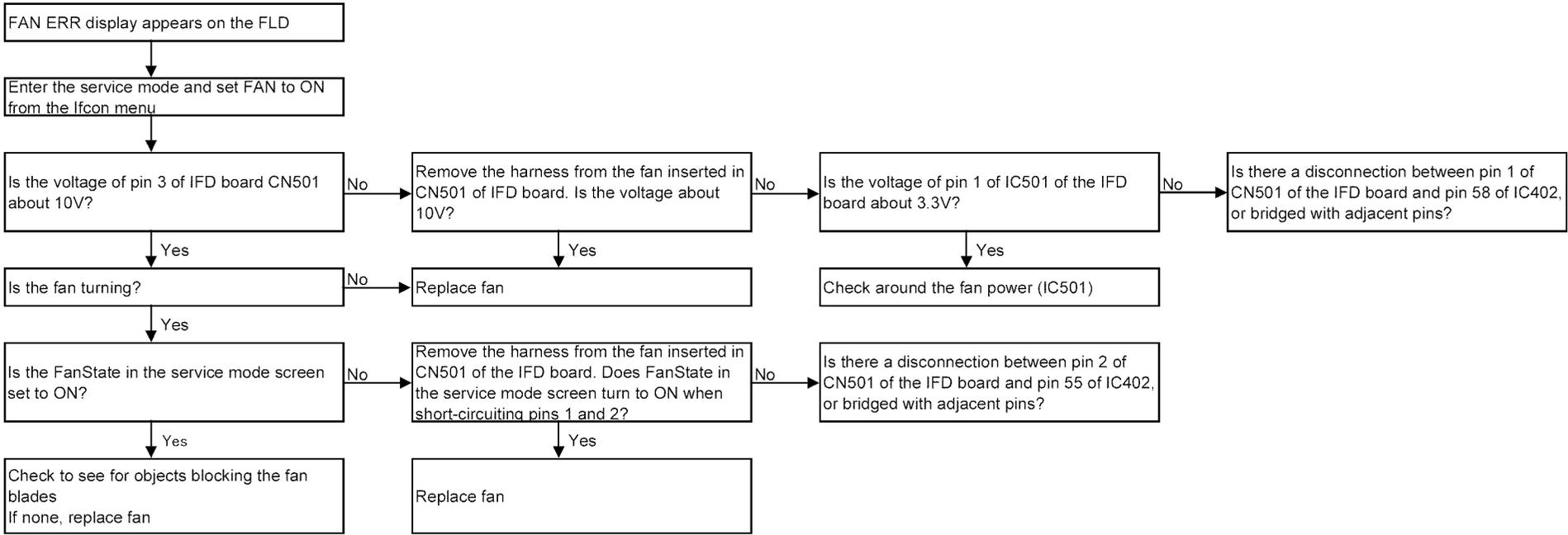
Remote control does not operate



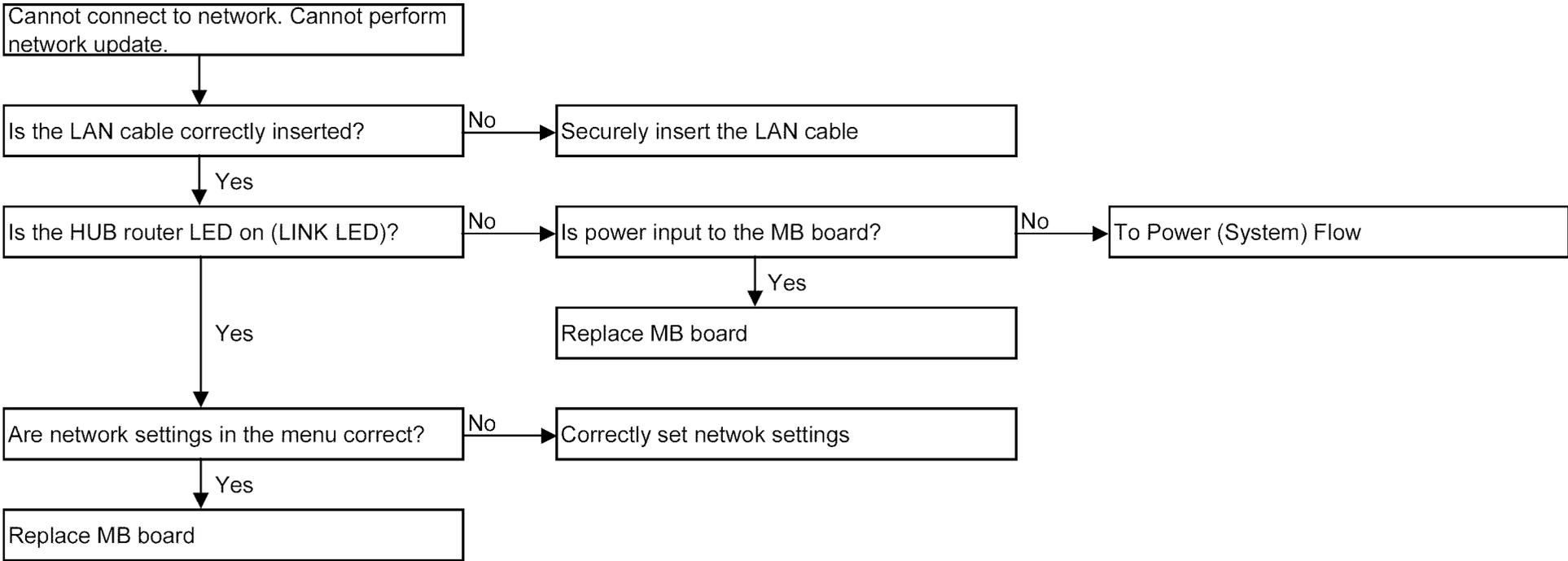
Drive Flow



Fan Flow

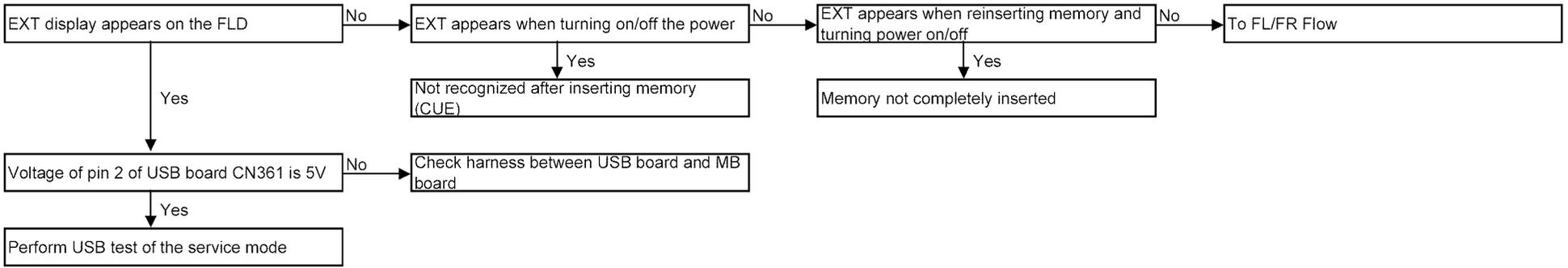


Ether Flow

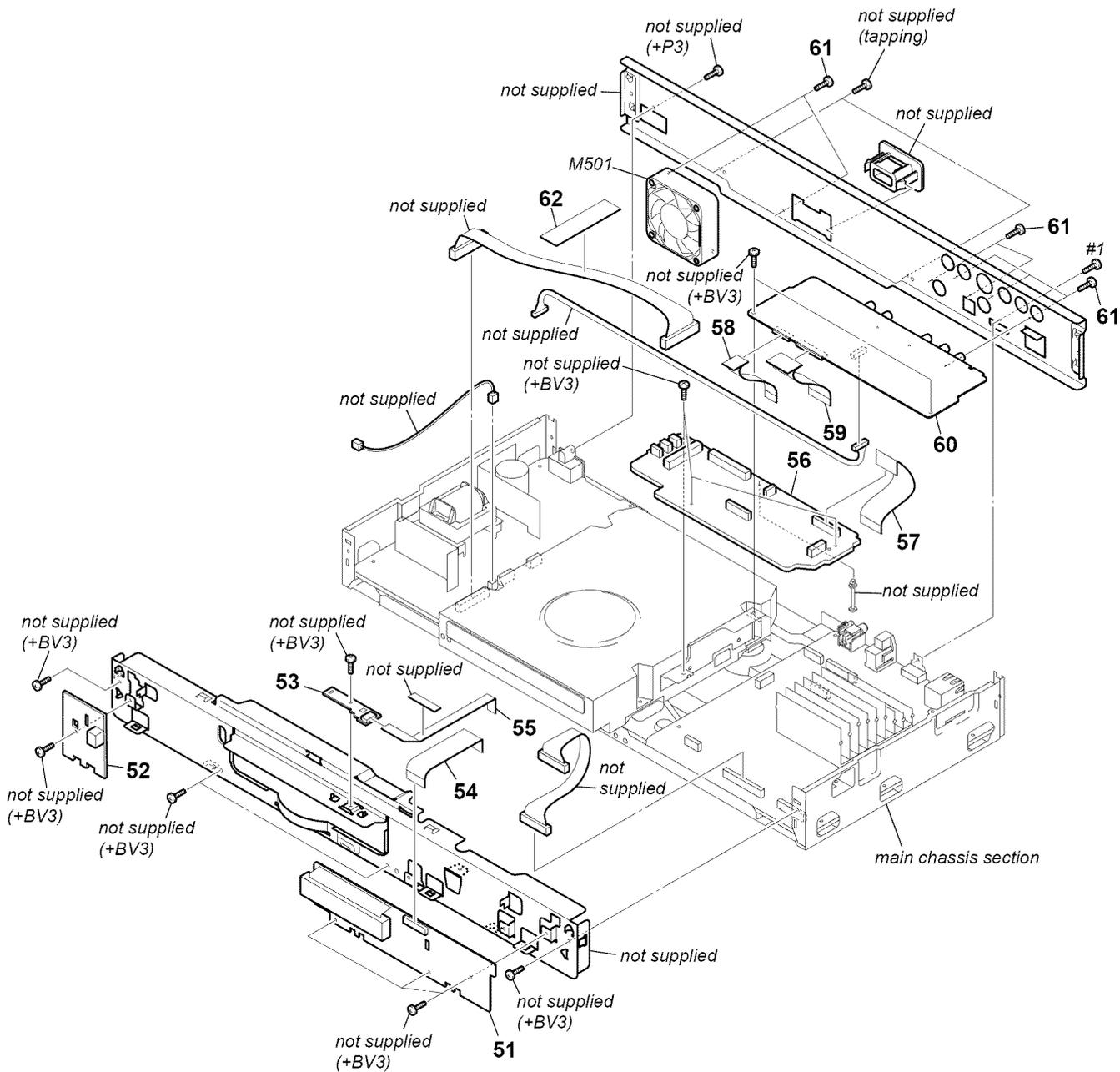


USB Device Flow

USB device is not recognized

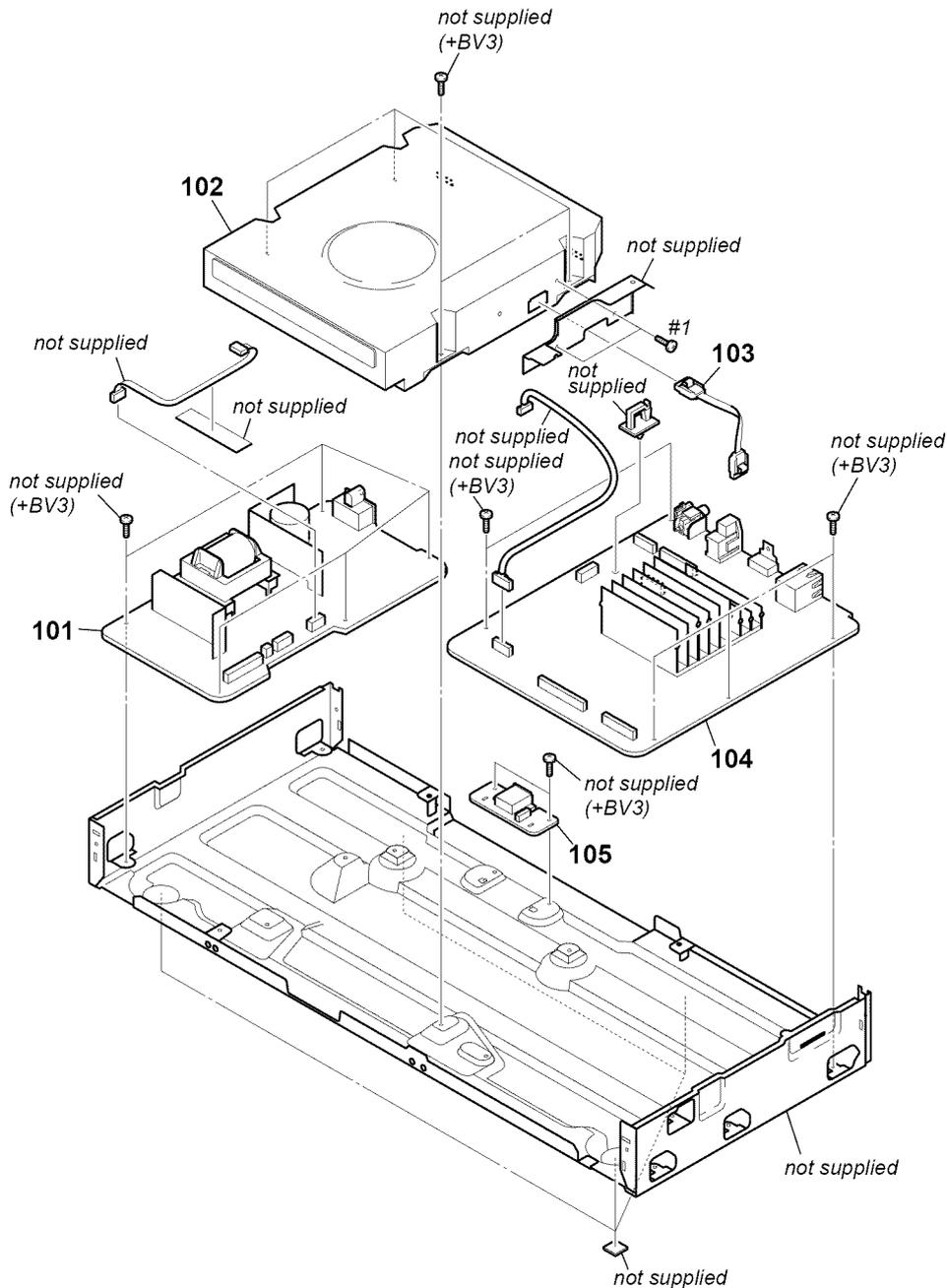


9-1-2. FRONT/REAR CHASSIS SECTION



| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|--------------------------------|--------|----------|--------------|--------------------------------|--------|
| 51 | A-1540-040-A | FR-294 BOARD, COMPLETE | | 58 | 1-835-292-11 | CABLE, FLEXIBLE FLAT (FMA-021) | |
| 52 | A-1540-042-A | FL-187 BOARD, COMPLETE | | 59 | 1-835-296-11 | CABLE, FLEXIBLE FLAT (FMA-022) | |
| 53 | A-1540-044-A | FC-096 BOARD, COMPLETE | | 60 | A-1540-036-A | AV-123 BOARD, COMPLETE | |
| 54 | 1-835-294-11 | CABLE, FLEXIBLE FLAT (FFI-001) | | 61 | 3-077-331-31 | +BV3 (3-CR) | |
| 55 | 1-835-295-11 | CABLE, FLEXIBLE FLAT (FFI-002) | | 62 | 3-087-220-01 | TAPE, NON-HALOGENE | |
| 56 | A-1540-038-A | IFD-003 BOARD, COMPLETE | | M501 | 1-787-760-11 | FAN, D.C. | |
| 57 | 1-835-293-11 | CABLE, FLEXIBLE FLAT (FMI-005) | | #1 | 7-682-544-09 | +B 3X3 | |

9-1-3. MAIN CHASSIS SECTION

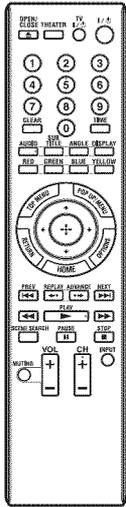


| | |
|---|--|
| <p>The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.</p> | <p>Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant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

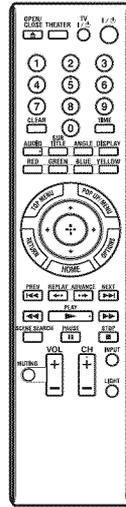
| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|-----------------------|--------------|----------------------------------|-------------------------|-----------------------|--------------|----------------------------------|--------|
| \triangle 101 | 1-474-088-11 | REGULATOR, SWITCHING (ZSSR774MA) | (US, CND) | $\hat{\triangle}$ 104 | A-1545-414-A | MB-124 BOARD, COMPLETE (AEP, UK) | |
| \triangle 101 | 1-474-088-31 | REGULATOR, SWITCHING (ZSSR774HA) | (AEP, UK, AUS, RUS, KR) | $\hat{\triangle}$ 104 | A-1545-415-A | MB-124 BOARD, COMPLETE (RUS) | |
| \triangle 101 | 1-474-088-41 | REGULATOR, SWITCHING (ZSSR774IA) | (E, HK, TW, TH) | $\hat{\triangle}$ 104 | A-1545-416-A | MB-124 BOARD, COMPLETE (AUS) | |
| \triangle 101 | 1-474-088-51 | REGULATOR, SWITCHING (ZSSR774CA) | (CH) | $\hat{\triangle}$ 104 | A-1545-417-A | MB-124 BOARD, COMPLETE (E) | |
| \triangle 102 | A-1540-573-A | DRIVE (SERVICE USE), BD | | $\hat{\triangle}$ 104 | A-1545-418-A | MB-124 BOARD, COMPLETE (TW, KR) | |
| 103 | 1-966-155-11 | HARNESS (SAT-003) | | $\hat{\triangle}$ 104 | A-1545-419-A | MB-124 BOARD, COMPLETE (HK, TH) | |
| $\hat{\triangle}$ 104 | A-1545-412-A | MB-124 BOARD, COMPLETE (US, CND) | | $\hat{\triangle}$ 104 | A-1545-420-A | MB-124 BOARD, COMPLETE (CH) | |
| | | | | 105 | A-1540-046-A | USB-008 BOARD, COMPLETE | |
| | | | | #1 | 7-682-544-09 | +B 3X3 | |

9-1-4. ACCESSORIES

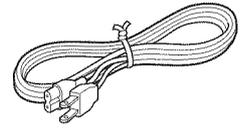
151
Remote Commander
(RMT-B102A/B102P)
(S350)



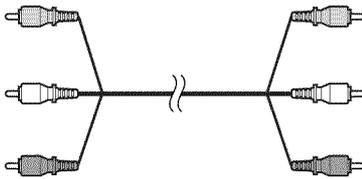
152
Remote Commander
(RMT-B103A)
(BX1)



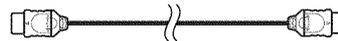
153
AC Power Cord



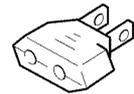
154
Audio/Video Cable (Phono Plug x3)



155
HDMI Cable
(S350: E/BX1)



156
Conversion Adaptor (E)



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

| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|-----------------|--------------|---|--------|----------|--------------|---|--------|
| 151 | 1-480-649-11 | REMOTE COMMANDER (RMT-B102A) (S350: US, CND, E) | | * | 3-287-660-51 | MANUAL, INSTRUCTION (SPANISH) (S350: E) | |
| 151 | 1-480-651-11 | REMOTE COMMANDER (RMT-B102P) (S350: EXCEPT US, CND, E) | | * | 3-287-660-61 | MANUAL, INSTRUCTION (ENGLISH) (S350: HK, TH) | |
| 152 | 1-480-740-11 | REMOTE COMMANDER (RMT-B103A) (BX1) | | * | 3-287-660-71 | MANUAL, INSTRUCTION (TRADITIONAL CHINESE) (S350: HK) | |
| \triangle 153 | 1-555-074-52 | CORD, POWER (AUS) | | * | 3-287-660-81 | MANUAL, INSTRUCTION (SIMPLIFIED CHINESE) (S350: CH) | |
| \triangle 153 | 1-575-131-82 | CORD, POWER (AEP, E, RUS) | | * | 3-452-775-11 | MANUAL, INSTRUCTION (ENGLISH) (S350: UK) | |
| \triangle 153 | 1-782-476-13 | CORD, POWER (CH) | | * | 3-452-775-21 | MANUAL, INSTRUCTION (FRENCH) (S350: AEP) | |
| \triangle 153 | 1-823-701-11 | CORD, POWER (US, CND) | | * | 3-452-775-31 | MANUAL, INSTRUCTION (GERMAN) (S350: AEP) | |
| \triangle 153 | 1-830-337-11 | POWER-SUPPLY CORD (TW) | | * | 3-452-775-41 | MANUAL, INSTRUCTION (ITALIAN) (S350: AEP) | |
| \triangle 153 | 1-831-905-21 | POWER-SUPPLY CORD (UK, HK) | | * | 3-452-775-51 | MANUAL, INSTRUCTION (DUTCH) (S350: AEP) | |
| \triangle 153 | 1-833-892-31 | CORD SET, POWER SUPPLY (KR) | | * | 3-452-776-11 | MANUAL, INSTRUCTION (SPANISH) (S350: AEP) | |
| \triangle 153 | 1-835-214-11 | CORD, POWER (TH) | | * | 3-452-776-21 | MANUAL, INSTRUCTION (PORTUGUESE) (S350: AEP) | |
| 154 | 1-828-145-11 | CORD, CONNECTION (AV) | | | | | |
| 155 | 1-834-169-21 | CORD WITH CONNECTOR (HDMI CABLE) (S350: E/BX1) | | | | | |
| \triangle 156 | 1-569-008-22 | ADAPTOR, CONVERSION 2P (E) | | * | 3-452-776-31 | MANUAL, INSTRUCTION (SWEDISH) (S350: AEP) | |
| * | 3-287-660-11 | MANUAL, INSTRUCTION (ENGLISH) (S350: US, CND) | | * | 3-452-776-41 | MANUAL, INSTRUCTION (DANISH) (S350: AEP) | |
| * | 3-287-660-21 | MANUAL, INSTRUCTION (FRENCH) (S350: CND) | | * | 3-452-776-51 | MANUAL, INSTRUCTION (FINNISH) (S350: AEP) | |
| * | 3-287-660-31 | MANUAL, INSTRUCTION (KOREAN) (S350: KR) | | * | 4-120-892-61 | MANUAL, INSTRUCTION (RUSSIAN) (S350: RUS) | |
| * | 3-287-660-41 | MANUAL, INSTRUCTION (TRADITIONAL CHINESE) (S350: TW) | | * | 3-452-777-11 | MANUAL, INSTRUCTION (ENGLISH) (BX1) | |
| | | | | * | 3-452-777-21 | MANUAL, INSTRUCTION (FRENCH) (BX1: CND) | |
| | | | | * | 3-878-575-11 | MANUAL, INSTRUCTION (ENGLISH) (S350: AUS) | |

9-2. 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. . . : μ A. . . uPA. . . : μ PA. . .
uPB. . . : μ PB. . . uPC. . . : μ PC. . .
uPD. . . : μ PD. . .
- CAPACITORS
uF: μ F
- COILS
uH: μ H
- Abbreviation
AUS : Australian model
CH : Chinese model
CND : Canadian model
HK : Hong Kong model
KR : Korea model
RUS : Russian model
TH : Thai model
TW : Taiwan model

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

Les composants identifiés par une marque \triangle 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.

The components identified by mark \square contain confidential information.
Strictly follow the instructions whenever the components are repaired and/or replaced.

Les composants identifiés par la marque \square contiennent des informations confidentielles.
Suivre scrupuleusement les instructions chaque fois qu'un composant est remplacé et / ou réparé.

| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|---|--------|----------|--------------|--|--------|
| | A-1540-036-A | AV-123 BOARD, COMPLETE ***** (Ref. No. 20,000 Series) | | C217 | 1-100-566-91 | CERAMIC CHIP 0.1uF 10% 25V | |
| | | < CAPACITOR > | | C218 | 1-100-566-91 | CERAMIC CHIP 0.1uF 10% 25V | |
| C002 | 1-127-715-11 | CERAMIC CHIP 0.22uF 10% 16V | | C219 | 1-100-566-91 | CERAMIC CHIP 0.1uF 10% 25V | |
| C003 | 1-127-715-11 | CERAMIC CHIP 0.22uF 10% 16V | | C220 | 1-126-947-11 | ELECT 47uF 20% 35V | |
| C004 | 1-126-947-11 | ELECT 47uF 20% 35V | | C221 | 1-100-566-91 | CERAMIC CHIP 0.1uF 10% 25V | |
| C005 | 1-126-947-11 | ELECT 47uF 20% 35V | | C222 | 1-100-566-91 | CERAMIC CHIP 0.1uF 10% 25V | |
| C006 | 1-162-964-11 | CERAMIC CHIP 0.001uF 10% 50V | | C223 | 1-100-566-91 | CERAMIC CHIP 0.1uF 10% 25V | |
| C011 | 1-127-715-11 | CERAMIC CHIP 0.22uF 10% 16V | | C224 | 1-100-566-91 | CERAMIC CHIP 0.1uF 10% 25V | |
| C012 | 1-126-964-11 | ELECT 10uF 20% 50V | | C225 | 1-100-566-91 | CERAMIC CHIP 0.1uF 10% 25V | |
| C016 | 1-165-908-11 | CERAMIC CHIP 1uF 10% 10V | | C226 | 1-126-947-11 | ELECT 47uF 20% 35V | |
| C030 | 1-164-173-11 | CERAMIC CHIP 0.0039uF 10% 50V | | C227 | 1-107-826-11 | CERAMIC CHIP 0.1uF 10% 16V | |
| C031 | 1-164-173-11 | CERAMIC CHIP 0.0039uF 10% 50V | | | | < CONNECTOR > | |
| C040 | 1-164-315-11 | CERAMIC CHIP 470PF 5% 50V | | CN203 | 1-821-773-51 | CONNECTOR, FFC/FPC 21P | |
| C041 | 1-164-315-11 | CERAMIC CHIP 470PF 5% 50V | | | | < DIODE > | |
| C046 | 1-100-566-91 | CERAMIC CHIP 0.1uF 10% 25V | | D001 | 8-719-914-43 | DIODE DAN202K | |
| C051 | 1-164-315-11 | CERAMIC CHIP 470PF 5% 50V | | D002 | 8-719-988-61 | DIODE 1SS355TE-17 | |
| C056 | 1-164-315-11 | CERAMIC CHIP 470PF 5% 50V | | D203 | 8-719-067-40 | DIODE STZ6.8N-T146 | |
| C061 | 1-126-947-11 | ELECT 47uF 20% 35V | | D205 | 8-719-067-40 | DIODE STZ6.8N-T146 | |
| C066 | 1-126-947-11 | ELECT 47uF 20% 35V | | D206 | 8-719-067-40 | DIODE STZ6.8N-T146 | |
| C071 | 1-100-566-91 | CERAMIC CHIP 0.1uF 10% 25V | | D208 | 8-719-067-40 | DIODE STZ6.8N-T146 | |
| C080 | 1-164-230-11 | CERAMIC CHIP 220PF 5% 50V | | D209 | 8-719-067-40 | DIODE STZ6.8N-T146 | |
| C081 | 1-164-230-11 | CERAMIC CHIP 220PF 5% 50V | | D211 | 8-719-067-40 | DIODE STZ6.8N-T146 | |
| C082 | 1-126-934-11 | ELECT 220uF 20% 16V | | | | < IC > | |
| C202 | 1-100-717-91 | CERAMIC CHIP 1uF 16V | | IC001 | 6-705-337-01 | IC TK11150CSCL-G | |
| C203 | 1-107-726-91 | CERAMIC CHIP 0.01uF 10% 16V | | IC002 | 6-702-630-01 | IC AK4382AVTN-E2 | |
| C204 | 1-100-717-91 | CERAMIC CHIP 1uF 16V | | IC008 | 8-759-656-83 | IC NJM4580MD-(TE2) | |
| C205 | 1-126-947-11 | ELECT 47uF 20% 35V | | IC202 | 6-702-302-01 | IC TK11133CSCL-G | |
| C206 | 1-107-826-11 | CERAMIC CHIP 0.1uF 10% 16V | | IC205 | 8-759-667-17 | IC L79M05TLL-SONY-TL-E | |
| C207 | 1-100-566-91 | CERAMIC CHIP 0.1uF 10% 25V | | IC206 | 6-712-336-01 | IC NJM2564AV (TE2) | |
| C208 | 1-126-947-11 | ELECT 47uF 20% 35V | | | | < JACK > | |
| C209 | 1-126-964-11 | ELECT 10uF 20% 50V | | J001 | 1-815-894-11 | JACK, PIN (2P) (LINE OUT (AUDIO L/R)) | |
| C210 | 1-107-826-11 | CERAMIC CHIP 0.1uF 10% 16V | | J201 | 1-793-483-11 | PHONO JACK 3P (COMPONENT VIDEO OUT (Pr/Pb/Y)) | |
| C211 | 1-100-566-91 | CERAMIC CHIP 0.1uF 10% 25V | | J202 | 1-780-641-11 | JACK BLOCK, PIN (LINE OUT (S VIDEO/VIDEO)) | |
| C212 | 1-100-566-91 | CERAMIC CHIP 0.1uF 10% 25V | | | | | |
| C213 | 1-126-947-11 | ELECT 47uF 20% 35V | | | | | |
| C214 | 1-126-947-11 | ELECT 47uF 20% 35V | | | | | |
| C215 | 1-100-566-91 | CERAMIC CHIP 0.1uF 10% 25V | | | | | |
| C216 | 1-100-566-91 | CERAMIC CHIP 0.1uF 10% 25V | | | | | |

| Ref. No. | Part No. | Description | Remark | | | Ref. No. | Part No. | Description | Remark | | |
|----------|--------------|----------------|-------------------|------|-------|----------|--------------|-------------|--------|------|-------|
| | | < COIL > | | | | | | | | | |
| L201 | 1-469-967-21 | INDUCTOR | 10uH | | | R087 | 1-218-674-11 | METAL CHIP | 180 | 0.5% | 1/10W |
| L202 | 1-469-967-21 | INDUCTOR | 10uH | | | R096 | 1-218-674-11 | METAL CHIP | 180 | 0.5% | 1/10W |
| L203 | 1-469-967-21 | INDUCTOR | 10uH | | | R097 | 1-218-710-11 | METAL CHIP | 5.6K | 0.5% | 1/10W |
| L204 | 1-469-967-21 | INDUCTOR | 10uH | | | R106 | 1-218-710-11 | METAL CHIP | 5.6K | 0.5% | 1/10W |
| L205 | 1-469-967-21 | INDUCTOR | 10uH | | | R107 | 1-218-674-11 | METAL CHIP | 180 | 0.5% | 1/10W |
| | | < FUSE > | | | | R116 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| △PS101 | 1-576-596-21 | FUSE 1A 32V | | | | R117 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| △PS102 | 1-576-863-21 | FUSE 0.5A 32V | | | | R126 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| △PS201 | 1-576-596-21 | FUSE 1A 32V | | | | R127 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| | | < TRANSISTOR > | | | | R136 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| Q001 | 8-729-901-88 | TRANSISTOR | 2SC2411K-T-146-CR | | | R137 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| Q002 | 8-729-045-17 | TRANSISTOR | 2SB1561T100Q | | | R146 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| Q003 | 8-729-120-28 | TRANSISTOR | 2SC1623-L5L6 | | | R147 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| Q004 | 8-729-029-14 | TRANSISTOR | DTC144EUA-T106 | | | R148 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| Q008 | 8-729-029-07 | TRANSISTOR | DTC124TUA-T106 | | | R158 | 1-216-295-91 | SHORT CHIP | 0 | | |
| Q012 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 | | | R160 | 1-216-295-91 | SHORT CHIP | 0 | | |
| Q024 | 6-551-287-01 | TRANSISTOR | 2SD2704K-T146 | | | R163 | 1-216-864-11 | SHORT CHIP | 0 | | |
| Q025 | 6-551-287-01 | TRANSISTOR | 2SD2704K-T146 | | | R164 | 1-216-864-11 | SHORT CHIP | 0 | | |
| Q026 | 8-729-028-73 | TRANSISTOR | DTA114EUA-T106 | | | R165 | 1-216-864-11 | SHORT CHIP | 0 | | |
| Q201 | 8-729-028-83 | TRANSISTOR | DTA124EUA-T106 | | | R166 | 1-216-864-11 | SHORT CHIP | 0 | | |
| Q202 | 8-729-010-29 | TRANSISTOR | MSD601-RST1 | | | R167 | 1-216-864-11 | SHORT CHIP | 0 | | |
| Q203 | 8-729-010-29 | TRANSISTOR | MSD601-RST1 | | | R168 | 1-216-864-11 | SHORT CHIP | 0 | | |
| Q204 | 8-729-010-29 | TRANSISTOR | MSD601-RST1 | | | R201 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| Q205 | 8-729-010-29 | TRANSISTOR | MSD601-RST1 | | | R202 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| Q206 | 8-729-010-29 | TRANSISTOR | MSD601-RST1 | | | R208 | 1-216-827-11 | METAL CHIP | 3.3K | 5% | 1/10W |
| Q207 | 8-729-921-80 | TRANSISTOR | 2SD1781K-T146-QR | | | R210 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| Q212 | 8-729-028-83 | TRANSISTOR | DTA124EUA-T106 | | | R211 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| Q213 | 8-729-921-80 | TRANSISTOR | 2SD1781K-T146-QR | | | R212 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| Q214 | 8-729-024-88 | TRANSISTOR | MUN2212T1 | | | R213 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| | | < RESISTOR > | | | | R214 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R001 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | R215 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R002 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | R219 | 1-216-819-11 | METAL CHIP | 680 | 5% | 1/10W |
| R003 | 1-216-830-11 | METAL CHIP | 5.6K | 5% | 1/10W | R220 | 1-216-819-11 | METAL CHIP | 680 | 5% | 1/10W |
| R004 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R221 | 1-216-819-11 | METAL CHIP | 680 | 5% | 1/10W |
| R005 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R222 | 1-216-819-11 | METAL CHIP | 680 | 5% | 1/10W |
| R006 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R223 | 1-216-819-11 | METAL CHIP | 680 | 5% | 1/10W |
| R007 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R232 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R008 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R233 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R009 | 1-216-830-11 | METAL CHIP | 5.6K | 5% | 1/10W | R234 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R010 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | R235 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R012 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W | R237 | 1-218-285-11 | METAL CHIP | 75 | 5% | 1/10W |
| R013 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W | R239 | 1-218-285-11 | METAL CHIP | 75 | 5% | 1/10W |
| R014 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W | R241 | 1-218-285-11 | METAL CHIP | 75 | 5% | 1/10W |
| R015 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W | R242 | 1-218-285-11 | METAL CHIP | 75 | 5% | 1/10W |
| R016 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W | R243 | 1-218-285-11 | METAL CHIP | 75 | 5% | 1/10W |
| R017 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W | R244 | 1-218-285-11 | METAL CHIP | 75 | 5% | 1/10W |
| R030 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | R260 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R040 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | R263 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R044 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | R265 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R062 | 1-218-709-11 | METAL CHIP | 5.1K | 0.5% | 1/10W | R267 | 1-216-827-11 | METAL CHIP | 3.3K | 5% | 1/10W |
| R063 | 1-218-709-11 | METAL CHIP | 5.1K | 0.5% | 1/10W | R268 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R064 | 1-218-709-11 | METAL CHIP | 5.1K | 0.5% | 1/10W | R269 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R065 | 1-218-709-11 | METAL CHIP | 5.1K | 0.5% | 1/10W | | | | | | |
| R076 | 1-218-710-11 | METAL CHIP | 5.6K | 0.5% | 1/10W | | | | | | |
| R077 | 1-218-710-11 | METAL CHIP | 5.6K | 0.5% | 1/10W | | | | | | |
| R086 | 1-218-674-11 | METAL CHIP | 180 | 0.5% | 1/10W | | | | | | |

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Ne les remplacer que par une pièce portant le numéro spécifié.

| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------------|--------------|---------------------------------|--------|----------|--------------|----------------------|--------|
| C503 | 1-100-591-91 | CERAMIC CHIP 1uF 10% | 25V | R408 | 1-216-849-11 | METAL CHIP 220K 5% | 1/10W |
| C505 | 1-162-927-11 | CERAMIC CHIP 100PF 5% | 50V | R409 | 1-216-829-11 | METAL CHIP 4.7K 5% | 1/10W |
| C507 | 1-162-970-11 | CERAMIC CHIP 0.01uF 10% | 25V | R410 | 1-216-837-11 | METAL CHIP 22K 5% | 1/10W |
| C601 | 1-135-960-91 | CERAMIC CHIP 10uF 10% | 25V | R411 | 1-216-809-11 | METAL CHIP 100 5% | 1/10W |
| C603 | 1-100-717-91 | CERAMIC CHIP 1uF | 16V | R412 | 1-216-809-11 | METAL CHIP 100 5% | 1/10W |
| C604 | 1-135-960-91 | CERAMIC CHIP 10uF 10% | 25V | R414 | 1-216-809-11 | METAL CHIP 100 5% | 1/10W |
| C605 | 1-127-715-11 | CERAMIC CHIP 0.22uF 10% | 16V | R415 | 1-216-809-11 | METAL CHIP 100 5% | 1/10W |
| C607 | 1-107-726-91 | CERAMIC CHIP 0.01uF 10% | 16V | R417 | 1-216-809-11 | METAL CHIP 100 5% | 1/10W |
| C608 | 1-100-717-91 | CERAMIC CHIP 1uF | 16V | R418 | 1-216-845-11 | METAL CHIP 100K 5% | 1/10W |
| C609 | 1-162-970-11 | CERAMIC CHIP 0.01uF 10% | 25V | R419 | 1-216-809-11 | METAL CHIP 100 5% | 1/10W |
| C610 | 1-164-227-11 | CERAMIC CHIP 0.022uF 10% | 25V | R420 | 1-216-864-11 | SHORT CHIP 0 | |
| C619 | 1-135-960-91 | CERAMIC CHIP 10uF 10% | 25V | R422 | 1-216-864-11 | SHORT CHIP 0 | |
| C621 | 1-135-960-91 | CERAMIC CHIP 10uF 10% | 25V | R423 | 1-216-809-11 | METAL CHIP 100 5% | 1/10W |
| C622 | 1-127-820-11 | CERAMIC CHIP 4.7uF 10% | 16V | R424 | 1-216-833-11 | METAL CHIP 10K 5% | 1/10W |
| C624 | 1-162-970-11 | CERAMIC CHIP 0.01uF 10% | 25V | R425 | 1-216-864-11 | SHORT CHIP 0 | |
| C626 | 1-162-970-11 | CERAMIC CHIP 0.01uF 10% | 25V | R426 | 1-216-809-11 | METAL CHIP 100 5% | 1/10W |
| C627 | 1-164-227-11 | CERAMIC CHIP 0.022uF 10% | 25V | R427 | 1-216-833-11 | METAL CHIP 10K 5% | 1/10W |
| C628 | 1-100-159-91 | CERAMIC CHIP 22uF 10% | 6.3V | R428 | 1-216-833-11 | METAL CHIP 10K 5% | 1/10W |
| C630 | 1-100-159-91 | CERAMIC CHIP 22uF 10% | 6.3V | R429 | 1-216-864-11 | SHORT CHIP 0 | |
| C631 | 1-100-159-91 | CERAMIC CHIP 22uF 10% | 6.3V | R430 | 1-216-809-11 | METAL CHIP 100 5% | 1/10W |
| C632 | 1-100-159-91 | CERAMIC CHIP 22uF 10% | 6.3V | R431 | 1-216-864-11 | SHORT CHIP 0 | |
| C633 | 1-127-820-11 | CERAMIC CHIP 4.7uF 10% | 16V | R432 | 1-216-809-11 | METAL CHIP 100 5% | 1/10W |
| < CONNECTOR > | | | | R435 | 1-216-845-11 | METAL CHIP 100K 5% | 1/10W |
| CN101 | 1-815-954-21 | PIN, CONNECTOR (PC BOARD) 13P | | R439 | 1-216-833-11 | METAL CHIP 10K 5% | 1/10W |
| CN102 | 1-816-587-21 | PIN, CONNECTOR (PC BOARD) 15P | | R442 | 1-216-845-11 | METAL CHIP 100K 5% | 1/10W |
| CN402 | 1-764-177-11 | PIN, CONNECTOR (SMD) (1.5MM) 7P | | R443 | 1-216-833-11 | METAL CHIP 10K 5% | 1/10W |
| CN501 | 1-691-550-11 | PIN, CONNECTOR (1.5MM) (SMD) 3P | | R445 | 1-216-845-11 | METAL CHIP 100K 5% | 1/10W |
| CN503 | 1-820-117-51 | CONNECTOR, FFC/FPC 19P | | R448 | 1-216-809-11 | METAL CHIP 100 5% | 1/10W |
| CN504 | 1-820-116-51 | CONNECTOR, FFC/FPC 17P | | R449 | 1-216-809-11 | METAL CHIP 100 5% | 1/10W |
| < DIODE > | | | | R450 | 1-218-857-11 | METAL CHIP 2.7K 0.5% | 1/10W |
| D606 | 8-719-083-60 | DIODE UDZSNPTE-174.7B | | R451 | 1-216-864-11 | SHORT CHIP 0 | |
| < IC > | | | | R452 | 1-216-845-11 | METAL CHIP 100K 5% | 1/10W |
| IC402 | 6-808-473-01 | IC R5F212A7SNA06FA | | R453 | 1-216-845-11 | METAL CHIP 100K 5% | 1/10W |
| IC501 | 6-707-208-01 | IC TK11100CSCB-G | | R454 | 1-216-864-11 | SHORT CHIP 0 | |
| IC601 | 6-702-302-01 | IC TK11133CSCL-G | | R455 | 1-216-845-11 | METAL CHIP 100K 5% | 1/10W |
| IC602 | 6-711-586-01 | IC MP2303DN-LF-Z | | R457 | 1-216-809-11 | METAL CHIP 100 5% | 1/10W |
| IC603 | 6-711-586-01 | IC MP2303DN-LF-Z | | R458 | 1-216-864-11 | SHORT CHIP 0 | |
| IC604 | 6-711-050-01 | IC S-1170B50UC-0UJTFG | | R461 | 1-216-809-11 | METAL CHIP 100 5% | 1/10W |
| < FUSE > | | | | R462 | 1-216-809-11 | METAL CHIP 100 5% | 1/10W |
| △ PS601 | 1-576-415-11 | FUSE, MICRO (1608 TYPE) | | R463 | 1-216-809-11 | METAL CHIP 100 5% | 1/10W |
| △ PS602 | 1-576-415-11 | FUSE, MICRO (1608 TYPE) | | R464 | 1-216-809-11 | METAL CHIP 100 5% | 1/10W |
| △ PS603 | 1-576-603-21 | FUSE 3.15A 24V | | R465 | 1-216-833-11 | METAL CHIP 10K 5% | 1/10W |
| < TRANSISTOR > | | | | R466 | 1-216-833-11 | METAL CHIP 10K 5% | 1/10W |
| Q501 | 8-729-421-19 | TRANSISTOR UN2213 | | R467 | 1-216-833-11 | METAL CHIP 10K 5% | 1/10W |
| Q503 | 8-729-421-19 | TRANSISTOR UN2213 | | R468 | 1-216-833-11 | METAL CHIP 10K 5% | 1/10W |
| Q505 | 8-729-037-53 | TRANSISTOR 2SB1462J-QR (TX).SO | | R469 | 1-216-833-11 | METAL CHIP 10K 5% | 1/10W |
| Q507 | 8-729-907-00 | TRANSISTOR DTC114EU | | R470 | 1-216-845-11 | METAL CHIP 100K 5% | 1/10W |
| Q509 | 8-729-028-97 | TRANSISTOR DTC114TUA-T106 | | R471 | 1-216-845-11 | METAL CHIP 100K 5% | 1/10W |
| Q510 | 8-729-028-97 | TRANSISTOR DTC114TUA-T106 | | R472 | 1-216-849-11 | METAL CHIP 220K 5% | 1/10W |
| < RESISTOR > | | | | R501 | 1-218-899-11 | METAL CHIP 150K 0.5% | 1/16W |
| R405 | 1-216-864-11 | SHORT CHIP 0 | | R502 | 1-218-878-11 | METAL CHIP 20K 0.5% | 1/10W |
| R406 | 1-216-833-11 | METAL CHIP 10K 5% | 1/10W | R503 | 1-218-867-11 | METAL CHIP 6.8K 0.5% | 1/10W |
| R407 | 1-218-881-11 | METAL CHIP 27K 0.5% | 1/10W | R504 | 1-218-865-11 | METAL CHIP 5.6K 0.5% | 1/10W |
| | | | | R509 | 1-216-864-11 | SHORT CHIP 0 | |
| | | | | R511 | 1-216-829-11 | METAL CHIP 4.7K 5% | 1/10W |

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| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|--------------|-----------------|----------|--------------|--------------|-----------------|
| C209 | 1-164-937-11 | CERAMIC CHIP | 0.001uF 10% 50V | C276 | 1-164-937-11 | CERAMIC CHIP | 0.001uF 10% 50V |
| C210 | 1-164-937-11 | CERAMIC CHIP | 0.001uF 10% 50V | C277 | 1-164-937-11 | CERAMIC CHIP | 0.001uF 10% 50V |
| C211 | 1-164-937-11 | CERAMIC CHIP | 0.001uF 10% 50V | C301 | 1-165-989-11 | CERAMIC CHIP | 10uF 10% 6.3V |
| C212 | 1-164-937-11 | CERAMIC CHIP | 0.001uF 10% 50V | C302 | 1-165-989-11 | CERAMIC CHIP | 10uF 10% 6.3V |
| C213 | 1-164-937-11 | CERAMIC CHIP | 0.001uF 10% 50V | C303 | 1-164-943-81 | CERAMIC CHIP | 0.01uF 10% 16V |
| C214 | 1-164-937-11 | CERAMIC CHIP | 0.001uF 10% 50V | C304 | 1-164-943-81 | CERAMIC CHIP | 0.01uF 10% 16V |
| C215 | 1-164-937-11 | CERAMIC CHIP | 0.001uF 10% 50V | C305 | 1-165-989-11 | CERAMIC CHIP | 10uF 10% 6.3V |
| C216 | 1-112-717-91 | CERAMIC CHIP | 1uF 10% 6.3V | C306 | 1-165-989-11 | CERAMIC CHIP | 10uF 10% 6.3V |
| C217 | 1-125-777-11 | CERAMIC CHIP | 0.1uF 10% 10V | C313 | 1-115-467-11 | CERAMIC CHIP | 0.22uF 10% 10V |
| C218 | 1-125-777-11 | CERAMIC CHIP | 0.1uF 10% 10V | C314 | 1-165-908-11 | CERAMIC CHIP | 1uF 10% 10V |
| C219 | 1-125-777-11 | CERAMIC CHIP | 0.1uF 10% 10V | C315 | 1-100-567-81 | CERAMIC CHIP | 0.01uF 10% 25V |
| C220 | 1-125-777-11 | CERAMIC CHIP | 0.1uF 10% 10V | C316 | 1-115-467-11 | CERAMIC CHIP | 0.22uF 10% 10V |
| C221 | 1-107-826-11 | CERAMIC CHIP | 0.1uF 10% 16V | C317 | 1-165-908-11 | CERAMIC CHIP | 1uF 10% 10V |
| C222 | 1-100-909-11 | CERAMIC CHIP | 10uF 10% 6.3V | C340 | 1-119-923-11 | CERAMIC CHIP | 0.047uF 10% 10V |
| C223 | 1-100-506-91 | CERAMIC CHIP | 1uF 20% 6.3V | C344 | 1-164-870-11 | CERAMIC CHIP | 68PF 5% 50V |
| C224 | 1-164-937-11 | CERAMIC CHIP | 0.001uF 10% 50V | C345 | 1-127-772-81 | CERAMIC CHIP | 0.033uF 10% 10V |
| C225 | 1-164-937-11 | CERAMIC CHIP | 0.001uF 10% 50V | C346 | 1-107-819-11 | CERAMIC CHIP | 0.022uF 10% 16V |
| C226 | 1-164-937-11 | CERAMIC CHIP | 0.001uF 10% 50V | * C347 | 1-112-833-11 | ELECT CHIP | 68uF 20% 16V |
| C227 | 1-164-937-11 | CERAMIC CHIP | 0.001uF 10% 50V | C349 | 1-127-738-91 | CERAMIC CHIP | 4.7uF 10% 25V |
| C228 | 1-164-937-11 | CERAMIC CHIP | 0.001uF 10% 50V | C350 | 1-127-738-91 | CERAMIC CHIP | 4.7uF 10% 25V |
| C229 | 1-164-937-11 | CERAMIC CHIP | 0.001uF 10% 50V | C351 | 1-164-937-11 | CERAMIC CHIP | 0.001uF 10% 50V |
| C230 | 1-164-937-11 | CERAMIC CHIP | 0.001uF 10% 50V | C352 | 1-164-937-11 | CERAMIC CHIP | 0.001uF 10% 50V |
| C231 | 1-164-937-11 | CERAMIC CHIP | 0.001uF 10% 50V | C353 | 1-127-738-91 | CERAMIC CHIP | 4.7uF 10% 25V |
| C232 | 1-164-937-11 | CERAMIC CHIP | 0.001uF 10% 50V | C354 | 1-127-738-91 | CERAMIC CHIP | 4.7uF 10% 25V |
| C233 | 1-164-937-11 | CERAMIC CHIP | 0.001uF 10% 50V | C355 | 1-112-300-91 | CERAMIC CHIP | 4.7uF 10% 10V |
| C234 | 1-164-937-11 | CERAMIC CHIP | 0.001uF 10% 50V | C356 | 1-127-573-11 | CERAMIC CHIP | 1uF 10% 16V |
| C235 | 1-164-937-11 | CERAMIC CHIP | 0.001uF 10% 50V | C357 | 1-107-826-11 | CERAMIC CHIP | 0.1uF 10% 16V |
| C236 | 1-164-937-11 | CERAMIC CHIP | 0.001uF 10% 50V | C358 | 1-107-826-11 | CERAMIC CHIP | 0.1uF 10% 16V |
| C237 | 1-164-937-11 | CERAMIC CHIP | 0.001uF 10% 50V | C361 | 1-100-159-91 | CERAMIC CHIP | 22uF 10% 6.3V |
| C238 | 1-164-937-11 | CERAMIC CHIP | 0.001uF 10% 50V | C362 | 1-112-786-11 | ELECT CHIP | 330uF 20% 4V |
| C240 | 1-125-777-11 | CERAMIC CHIP | 0.1uF 10% 10V | C363 | 1-100-159-91 | CERAMIC CHIP | 22uF 10% 6.3V |
| C241 | 1-100-506-91 | CERAMIC CHIP | 1uF 20% 6.3V | C364 | 1-112-786-11 | ELECT CHIP | 330uF 20% 4V |
| C242 | 1-164-937-11 | CERAMIC CHIP | 0.001uF 10% 50V | C365 | 1-100-159-91 | CERAMIC CHIP | 22uF 10% 6.3V |
| C243 | 1-164-937-11 | CERAMIC CHIP | 0.001uF 10% 50V | C366 | 1-127-760-11 | CERAMIC CHIP | 4.7uF 10% 6.3V |
| C244 | 1-164-937-11 | CERAMIC CHIP | 0.001uF 10% 50V | C367 | 1-100-159-91 | CERAMIC CHIP | 22uF 10% 6.3V |
| C245 | 1-164-937-11 | CERAMIC CHIP | 0.001uF 10% 50V | C368 | 1-127-760-11 | CERAMIC CHIP | 4.7uF 10% 6.3V |
| C246 | 1-164-937-11 | CERAMIC CHIP | 0.001uF 10% 50V | C371 | 1-165-989-11 | CERAMIC CHIP | 10uF 10% 6.3V |
| C247 | 1-164-937-11 | CERAMIC CHIP | 0.001uF 10% 50V | C372 | 1-165-989-11 | CERAMIC CHIP | 10uF 10% 6.3V |
| C248 | 1-164-937-11 | CERAMIC CHIP | 0.001uF 10% 50V | C374 | 1-165-989-11 | CERAMIC CHIP | 10uF 10% 6.3V |
| C249 | 1-164-937-11 | CERAMIC CHIP | 0.001uF 10% 50V | C375 | 1-165-989-11 | CERAMIC CHIP | 10uF 10% 6.3V |
| C250 | 1-164-937-11 | CERAMIC CHIP | 0.001uF 10% 50V | C401 | 1-107-820-11 | CERAMIC CHIP | 0.1uF 16V |
| C251 | 1-164-937-11 | CERAMIC CHIP | 0.001uF 10% 50V | C402 | 1-107-820-11 | CERAMIC CHIP | 0.1uF 16V |
| C252 | 1-164-937-11 | CERAMIC CHIP | 0.001uF 10% 50V | C403 | 1-107-820-11 | CERAMIC CHIP | 0.1uF 16V |
| C253 | 1-164-937-11 | CERAMIC CHIP | 0.001uF 10% 50V | C404 | 1-107-820-11 | CERAMIC CHIP | 0.1uF 16V |
| C254 | 1-164-937-11 | CERAMIC CHIP | 0.001uF 10% 50V | C405 | 1-107-820-11 | CERAMIC CHIP | 0.1uF 16V |
| C255 | 1-164-937-11 | CERAMIC CHIP | 0.001uF 10% 50V | C406 | 1-107-820-11 | CERAMIC CHIP | 0.1uF 16V |
| C256 | 1-164-937-11 | CERAMIC CHIP | 0.001uF 10% 50V | C407 | 1-107-820-11 | CERAMIC CHIP | 0.1uF 16V |
| C258 | 1-125-777-11 | CERAMIC CHIP | 0.1uF 10% 10V | C408 | 1-164-846-11 | CERAMIC CHIP | 6PF 0.5PF 50V |
| C259 | 1-100-909-11 | CERAMIC CHIP | 10uF 10% 6.3V | C409 | 1-164-846-11 | CERAMIC CHIP | 6PF 0.5PF 50V |
| C261 | 1-100-909-11 | CERAMIC CHIP | 10uF 10% 6.3V | C410 | 1-100-909-11 | CERAMIC CHIP | 10uF 10% 6.3V |
| C262 | 1-112-717-91 | CERAMIC CHIP | 1uF 10% 6.3V | C411 | 1-107-820-11 | CERAMIC CHIP | 0.1uF 16V |
| C263 | 1-100-567-81 | CERAMIC CHIP | 0.01uF 10% 25V | C412 | 1-165-989-11 | CERAMIC CHIP | 10uF 10% 6.3V |
| C264 | 1-100-567-81 | CERAMIC CHIP | 0.01uF 10% 25V | C413 | 1-165-989-11 | CERAMIC CHIP | 10uF 10% 6.3V |
| C265 | 1-100-567-81 | CERAMIC CHIP | 0.01uF 10% 25V | C414 | 1-107-820-11 | CERAMIC CHIP | 0.1uF 16V |
| C266 | 1-100-567-81 | CERAMIC CHIP | 0.01uF 10% 25V | C415 | 1-107-820-11 | CERAMIC CHIP | 0.1uF 16V |
| C267 | 1-112-717-91 | CERAMIC CHIP | 1uF 10% 6.3V | C420 | 1-107-820-11 | CERAMIC CHIP | 0.1uF 16V |
| C269 | 1-112-717-91 | CERAMIC CHIP | 1uF 10% 6.3V | C421 | 1-107-820-11 | CERAMIC CHIP | 0.1uF 16V |
| C270 | 1-112-717-91 | CERAMIC CHIP | 1uF 10% 6.3V | C422 | 1-107-820-11 | CERAMIC CHIP | 0.1uF 16V |
| C272 | 1-112-717-91 | CERAMIC CHIP | 1uF 10% 6.3V | C423 | 1-107-820-11 | CERAMIC CHIP | 0.1uF 16V |
| C273 | 1-100-567-81 | CERAMIC CHIP | 0.01uF 10% 25V | C424 | 1-107-820-11 | CERAMIC CHIP | 0.1uF 16V |

| Ref. No. | Part No. | Description | | Remark | Ref. No. | Part No. | Description | | Remark | |
|----------|--------------|--------------|--------|--------|----------|--------------|--------------|--------------|---------|----------|
| C425 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | 16V | C646 | 1-164-943-81 | CERAMIC CHIP | 0.01uF | 10% 16V | |
| C426 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | 16V | C700 | 1-164-943-81 | CERAMIC CHIP | 0.01uF | 10% 16V | |
| C427 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | 16V | C701 | 1-164-943-81 | CERAMIC CHIP | 0.01uF | 10% 16V | |
| C428 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | 16V | C703 | 1-164-943-81 | CERAMIC CHIP | 0.01uF | 10% 16V | |
| C429 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | 16V | C704 | 1-164-943-81 | CERAMIC CHIP | 0.01uF | 10% 16V | |
| C430 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | 16V | C705 | 1-164-943-81 | CERAMIC CHIP | 0.01uF | 10% 16V | |
| C431 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | 16V | C706 | 1-164-943-81 | CERAMIC CHIP | 0.01uF | 10% 16V | |
| C501 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C708 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | 16V |
| C502 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C711 | 1-164-943-81 | CERAMIC CHIP | 0.01uF | 10% 16V |
| C503 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C712 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | 16V |
| C504 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C713 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | 16V |
| C505 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C714 | 1-164-943-81 | CERAMIC CHIP | 0.01uF | 10% 16V |
| C506 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C715 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | 16V |
| C507 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C716 | 1-164-943-81 | CERAMIC CHIP | 0.01uF | 10% 16V |
| C508 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C718 | 1-164-943-81 | CERAMIC CHIP | 0.01uF | 10% 16V |
| C509 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C719 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | 16V |
| C510 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C720 | 1-164-943-81 | CERAMIC CHIP | 0.01uF | 10% 16V |
| C511 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C721 | 1-125-838-11 | CERAMIC CHIP | 2.2uF | 10% 6.3V |
| C513 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C722 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | 16V |
| C514 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C724 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | 16V |
| C517 | 1-164-943-81 | CERAMIC CHIP | 0.01uF | 10% | 16V | C725 | 1-164-943-81 | CERAMIC CHIP | 0.01uF | 10% 16V |
| C600 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C726 | 1-164-943-81 | CERAMIC CHIP | 0.01uF | 10% 16V |
| C601 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C728 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | 16V |
| C602 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C729 | 1-164-943-81 | CERAMIC CHIP | 0.01uF | 10% 16V |
| C603 | 1-164-943-81 | CERAMIC CHIP | 0.01uF | 10% | 16V | C730 | 1-125-838-11 | CERAMIC CHIP | 2.2uF | 10% 6.3V |
| C604 | 1-128-993-21 | ELECT CHIP | 22uF | 20% | 10V | C731 | 1-125-838-11 | CERAMIC CHIP | 2.2uF | 10% 6.3V |
| C606 | 1-165-646-91 | CERAMIC CHIP | 3.3uF | 10% | 10V | C732 | 1-164-943-81 | CERAMIC CHIP | 0.01uF | 10% 16V |
| C607 | 1-165-884-11 | CERAMIC CHIP | 2.2uF | 10% | 6.3V | C733 | 1-164-943-81 | CERAMIC CHIP | 0.01uF | 10% 16V |
| C608 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C734 | 1-164-943-81 | CERAMIC CHIP | 0.01uF | 10% 16V |
| C610 | 1-128-394-11 | ELECT CHIP | 220uF | 20% | 10V | C735 | 1-164-943-81 | CERAMIC CHIP | 0.01uF | 10% 16V |
| C611 | 1-100-966-91 | CERAMIC CHIP | 10uF | 20% | 10V | C736 | 1-164-943-81 | CERAMIC CHIP | 0.01uF | 10% 16V |
| C613 | 1-165-884-11 | CERAMIC CHIP | 2.2uF | 10% | 6.3V | C737 | 1-164-943-81 | CERAMIC CHIP | 0.01uF | 10% 16V |
| C614 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C738 | 1-164-943-81 | CERAMIC CHIP | 0.01uF | 10% 16V |
| C615 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C739 | 1-164-943-81 | CERAMIC CHIP | 0.01uF | 10% 16V |
| C616 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C740 | 1-165-989-11 | CERAMIC CHIP | 10uF | 10% 6.3V |
| C617 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C742 | 1-165-989-11 | CERAMIC CHIP | 10uF | 10% 6.3V |
| C618 | 1-164-844-11 | CERAMIC CHIP | 4PF | 0.25PF | 50V | C743 | 1-115-467-11 | CERAMIC CHIP | 0.22uF | 10% 10V |
| C619 | 1-164-844-11 | CERAMIC CHIP | 4PF | 0.25PF | 50V | C744 | 1-165-887-91 | CERAMIC CHIP | 0.22uF | 10% 6.3V |
| C623 | 1-128-993-21 | ELECT CHIP | 22uF | 20% | 10V | C745 | 1-164-943-81 | CERAMIC CHIP | 0.01uF | 10% 16V |
| C625 | 1-165-989-11 | CERAMIC CHIP | 10uF | 10% | 6.3V | C746 | 1-125-838-11 | CERAMIC CHIP | 2.2uF | 10% 6.3V |
| C626 | 1-164-848-11 | CERAMIC CHIP | 8PF | 0.5PF | 50V | C748 | 1-115-467-11 | CERAMIC CHIP | 0.22uF | 10% 10V |
| C627 | 1-164-848-11 | CERAMIC CHIP | 8PF | 0.5PF | 50V | C749 | 1-100-567-81 | CERAMIC CHIP | 0.01uF | 10% 25V |
| C628 | 1-128-993-21 | ELECT CHIP | 22uF | 20% | 10V | C750 | 1-115-467-11 | CERAMIC CHIP | 0.22uF | 10% 10V |
| C629 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C754 | 1-124-778-00 | ELECT CHIP | 22uF | 20% 6.3V |
| C630 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C755 | 1-124-778-00 | ELECT CHIP | 22uF | 20% 6.3V |
| C631 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C756 | 1-164-943-81 | CERAMIC CHIP | 0.01uF | 10% 16V |
| C632 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C757 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | 16V |
| C633 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C758 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | 16V |
| C634 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C759 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | 16V |
| C635 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C760 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | 16V |
| C636 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C761 | 1-107-820-11 | CERAMIC CHIP | 0.1uF | 16V |
| C637 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C762 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% 10V |
| C638 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C763 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% 10V |
| C639 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C801 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% 10V |
| C640 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C802 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% 10V |
| C641 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C803 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% 10V |
| C642 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C805 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% 10V |
| C643 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | C806 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% 10V |
| C644 | 1-165-908-11 | CERAMIC CHIP | 1uF | 10% | 10V | C807 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% 10V |
| C645 | 1-165-908-11 | CERAMIC CHIP | 1uF | 10% | 10V | C808 | 1-126-206-11 | ELECT CHIP | 100uF | 20% 6.3V |

| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|-------------------------------------|-----------------|----------|--------------|-------------------------------|--------|
| C810 | 1-125-777-11 | CERAMIC CHIP | 0.1uF 10% 10V | | | < FERRITE BEAD > | |
| C811 | 1-125-777-11 | CERAMIC CHIP | 0.1uF 10% 10V | | | | |
| C812 | 1-125-777-11 | CERAMIC CHIP | 0.1uF 10% 10V | | | | |
| C813 | 1-125-777-11 | CERAMIC CHIP | 0.1uF 10% 10V | FB8001 | 1-469-324-21 | FERRITE, EMI (SMD) (2012) | |
| | | | | FB8002 | 1-469-324-21 | FERRITE, EMI (SMD) (2012) | |
| C815 | 1-165-908-11 | CERAMIC CHIP | 1uF 10% 10V | | | < FILTER > | |
| C816 | 1-165-908-11 | CERAMIC CHIP | 1uF 10% 10V | | | | |
| C818 | 1-100-567-81 | CERAMIC CHIP | 0.01uF 10% 25V | FL101 | 1-234-177-21 | FILTER, CHIP EMI | |
| C819 | 1-124-779-00 | ELECT CHIP | 10uF 20% 16V | FL201 | 1-234-177-21 | FILTER, CHIP EMI | |
| C820 | 1-165-908-11 | CERAMIC CHIP | 1uF 10% 10V | FL303 | 1-234-986-11 | FILTER, EMI REMOVAL (1608SMD) | |
| | | | | FL304 | 1-234-986-11 | FILTER, EMI REMOVAL (1608SMD) | |
| C821 | 1-125-777-11 | CERAMIC CHIP | 0.1uF 10% 10V | FL305 | 1-234-986-11 | FILTER, EMI REMOVAL (1608SMD) | |
| C822 | 1-100-567-81 | CERAMIC CHIP | 0.01uF 10% 25V | | | | |
| C823 | 1-126-206-11 | ELECT CHIP | 100uF 20% 6.3V | FL306 | 1-234-986-11 | FILTER, EMI REMOVAL (1608SMD) | |
| C824 | 1-165-908-11 | CERAMIC CHIP | 1uF 10% 10V | FL307 | 1-234-986-11 | FILTER, EMI REMOVAL (1608SMD) | |
| C901 | 1-137-710-91 | CERAMIC CHIP | 10uF 20% 6.3V | FL308 | 1-234-986-11 | FILTER, EMI REMOVAL (1608SMD) | |
| | | | | FL309 | 1-234-986-11 | FILTER, EMI REMOVAL (1608SMD) | |
| C902 | 1-125-777-11 | CERAMIC CHIP | 0.1uF 10% 10V | FL310 | 1-234-986-11 | FILTER, EMI REMOVAL (1608SMD) | |
| C903 | 1-125-777-11 | CERAMIC CHIP | 0.1uF 10% 10V | | | | |
| C904 | 1-125-777-11 | CERAMIC CHIP | 0.1uF 10% 10V | FL400 | 1-234-177-21 | FILTER, CHIP EMI | |
| C905 | 1-125-777-11 | CERAMIC CHIP | 0.1uF 10% 10V | FL600 | 1-234-867-11 | FILTER, EMI REMOVAL (SMD) | |
| C906 | 1-125-777-11 | CERAMIC CHIP | 0.1uF 10% 10V | FL701 | 1-400-874-11 | FILTER, EMI REMOVAL (SMD) | |
| | | | | FL702 | 1-400-874-11 | FILTER, EMI REMOVAL (SMD) | |
| C907 | 1-125-777-11 | CERAMIC CHIP | 0.1uF 10% 10V | | | < IC > | |
| C908 | 1-125-777-11 | CERAMIC CHIP | 0.1uF 10% 10V | IC303 | 6-709-703-01 | IC MM3141JNRE | |
| C909 | 1-125-777-11 | CERAMIC CHIP | 0.1uF 10% 10V | IC304 | 6-705-337-01 | IC TK11150CSCL-G | |
| C910 | 1-125-777-11 | CERAMIC CHIP | 0.1uF 10% 10V | IC309 | 6-710-949-01 | IC SN0608006PWPR | |
| C915 | 1-164-943-81 | CERAMIC CHIP | 0.01uF 10% 16V | IC310 | 6-710-949-01 | IC SN0608006PWPR | |
| | | | | IC702 | 6-706-487-01 | IC TC7SH08FU (T5RSOYJF) | |
| C917 | 1-164-943-81 | CERAMIC CHIP | 0.01uF 10% 16V | | | | |
| C8001 | 1-107-819-11 | CERAMIC CHIP | 0.022uF 10% 16V | IC703 | 6-702-302-01 | IC TK11133CSCL-G | |
| C8006 | 1-164-943-81 | CERAMIC CHIP | 0.01uF 10% 16V | IC704 | 6-705-337-01 | IC TK11150CSCL-G | |
| C8007 | 1-164-943-81 | CERAMIC CHIP | 0.01uF 10% 16V | IC803 | 6-702-302-01 | IC TK11133CSCL-G | |
| C8008 | 1-164-943-81 | CERAMIC CHIP | 0.01uF 10% 16V | IC901 | 8-759-598-44 | IC TC7WH08FK (TE85R) | |
| C8009 | 1-164-943-81 | CERAMIC CHIP | 0.01uF 10% 16V | | | < COIL > | |
| C8010 | 1-127-760-11 | CERAMIC CHIP | 4.7uF 10% 6.3V | L600 | 1-400-180-21 | INDUCTOR, EMI FERRITE (1608) | |
| C8011 | 1-164-943-81 | CERAMIC CHIP | 0.01uF 10% 16V | L601 | 1-400-180-21 | INDUCTOR, EMI FERRITE (1608) | |
| C8012 | 1-164-943-81 | CERAMIC CHIP | 0.01uF 10% 16V | L602 | 1-400-180-21 | INDUCTOR, EMI FERRITE (1608) | |
| C8013 | 1-127-760-11 | CERAMIC CHIP | 4.7uF 10% 6.3V | * L603 | 1-813-308-11 | COMMON MODE CHOKE | |
| C8014 | 1-125-777-11 | CERAMIC CHIP | 0.1uF 10% 10V | L700 | 1-469-552-21 | INDUCTOR 3.3uH | |
| C8015 | 1-164-943-81 | CERAMIC CHIP | 0.01uF 10% 16V | | | | |
| C8016 | 1-164-943-81 | CERAMIC CHIP | 0.01uF 10% 16V | L701 | 1-469-555-21 | INDUCTOR 10uH | |
| C8017 | 1-137-710-91 | CERAMIC CHIP | 10uF 20% 6.3V | L702 | 1-469-555-21 | INDUCTOR 10uH | |
| C8018 | 1-125-777-11 | CERAMIC CHIP | 0.1uF 10% 10V | L703 | 1-457-374-21 | COMMOM MODE CHOKE COIL | |
| C8019 | 1-125-777-11 | CERAMIC CHIP | 0.1uF 10% 10V | L704 | 1-457-374-21 | COMMOM MODE CHOKE COIL | |
| C8020 | 1-164-943-81 | CERAMIC CHIP | 0.01uF 10% 16V | L705 | 1-457-374-21 | COMMOM MODE CHOKE COIL | |
| | | < CONNECTOR > | | L706 | 1-457-374-21 | COMMOM MODE CHOKE COIL | |
| CN301 | 1-816-587-21 | PIN, CONNECTOR (PC BOARD) 15P | | L707 | 1-469-555-21 | INDUCTOR 10uH | |
| CN700 | 1-819-876-21 | CONNECTOR, SATA SMT (7P) | | L802 | 1-469-555-21 | INDUCTOR 10uH | |
| CN702 | 1-821-450-12 | CONNECTOR, HDMI (HDMI OUT) | | L803 | 1-469-555-21 | INDUCTOR 10uH | |
| CN901 | 1-573-806-21 | PIN, CONNECTOR (1.5MM) (SMD) 6P | | L901 | 1-469-555-21 | INDUCTOR 10uH | |
| CN904 | 1-820-117-51 | CONNECTOR, FFC/FPC 19P | | | | < FUSE > | |
| CN8001 | 1-819-875-21 | ETHERNET CONNECTOR (8P) (LAN (100)) | | △ PS302 | 1-576-603-21 | FUSE 3.15A 24V | |
| | | < DIODE > | | △ PS701 | 1-576-596-21 | FUSE 1A 32V | |
| D301 | 8-719-081-67 | DIODE M1FM3 | | | | < CONTACT TERMINAL > | |
| D303 | 6-500-294-01 | DIODE PTZ-TE25-3.9B | | PT002 | 1-694-802-21 | CONTACT TERMINAL | |
| D304 | 6-500-294-01 | DIODE PTZ-TE25-3.9B | | | | | |
| D600 | 8-719-988-61 | DIODE 1SS355TE-17 | | | | | |
| D601 | 6-500-701-01 | DIODE PGB1010603NR | | | | | |
| D602 | 6-500-701-01 | DIODE PGB1010603NR | | | | | |

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 |
|----------|--------------|----------------|----------------|----------|--------------|-------------|-----------------|
| | | < TRANSISTOR > | | R230 | 1-218-935-11 | RES-CHIP | 33 5% 1/16W |
| Q300 | 6-550-663-01 | TRANSISTOR | RSS100N03FD5TB | R231 | 1-218-935-11 | RES-CHIP | 33 5% 1/16W |
| Q301 | 6-550-663-01 | TRANSISTOR | RSS100N03FD5TB | R232 | 1-218-935-11 | RES-CHIP | 33 5% 1/16W |
| Q302 | 6-550-663-01 | TRANSISTOR | RSS100N03FD5TB | R233 | 1-218-937-11 | RES-CHIP | 47 5% 1/16W |
| Q303 | 6-550-663-01 | TRANSISTOR | RSS100N03FD5TB | R234 | 1-218-937-11 | RES-CHIP | 47 5% 1/16W |
| Q304 | 6-550-663-01 | TRANSISTOR | RSS100N03FD5TB | R235 | 1-218-947-11 | RES-CHIP | 330 5% 1/16W |
| Q701 | 6-550-008-01 | TRANSISTOR | UM6K1N-TN | R237 | 1-208-683-11 | METAL CHIP | 1K 0.5% 1/16W |
| Q801 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 | R238 | 1-208-683-11 | METAL CHIP | 1K 0.5% 1/16W |
| Q802 | 8-729-120-28 | TRANSISTOR | 2SC1623-L5L6 | R240 | 1-218-939-11 | RES-CHIP | 68 5% 1/16W |
| Q803 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 | R241 | 1-218-939-11 | RES-CHIP | 68 5% 1/16W |
| Q804 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 | R243 | 1-218-933-11 | RES-CHIP | 22 5% 1/16W |
| Q805 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 | R244 | 1-218-933-11 | RES-CHIP | 22 5% 1/16W |
| Q806 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 | R245 | 1-218-933-11 | RES-CHIP | 22 5% 1/16W |
| Q901 | 8-729-025-28 | TRANSISTOR | 2SK1828 | R246 | 1-218-933-11 | RES-CHIP | 22 5% 1/16W |
| | | < RESISTOR > | | R250 | 1-216-864-11 | SHORT CHIP | 0 |
| R102 | 1-208-683-11 | METAL CHIP | 1K 0.5% | R256 | 1-218-947-11 | RES-CHIP | 330 5% 1/16W |
| R103 | 1-208-683-11 | METAL CHIP | 1K 0.5% | R258 | 1-208-683-11 | METAL CHIP | 1K 0.5% 1/16W |
| R123 | 1-218-939-11 | RES-CHIP | 68 5% | R259 | 1-208-683-11 | METAL CHIP | 1K 0.5% 1/16W |
| R124 | 1-218-939-11 | RES-CHIP | 68 5% | R277 | 1-218-943-11 | RES-CHIP | 150 5% 1/16W |
| R126 | 1-218-937-11 | RES-CHIP | 47 5% | R278 | 1-218-943-11 | RES-CHIP | 150 5% 1/16W |
| R127 | 1-218-937-11 | RES-CHIP | 47 5% | R279 | 1-218-943-11 | RES-CHIP | 150 5% 1/16W |
| R128 | 1-218-937-11 | RES-CHIP | 47 5% | R280 | 1-218-943-11 | RES-CHIP | 150 5% 1/16W |
| R129 | 1-218-935-11 | RES-CHIP | 33 5% | R281 | 1-220-169-11 | RES-CHIP | 75 5% 1/16W |
| R130 | 1-218-935-11 | RES-CHIP | 33 5% | R301 | 1-218-953-11 | RES-CHIP | 1K 5% 1/16W |
| R131 | 1-218-935-11 | RES-CHIP | 33 5% | R302 | 1-216-864-11 | SHORT CHIP | 0 |
| R132 | 1-218-935-11 | RES-CHIP | 33 5% | R303 | 1-218-953-11 | RES-CHIP | 1K 5% 1/16W |
| R133 | 1-218-937-11 | RES-CHIP | 47 5% | R309 | 1-218-953-11 | RES-CHIP | 1K 5% 1/16W |
| R134 | 1-218-937-11 | RES-CHIP | 47 5% | R314 | 1-208-935-11 | METAL CHIP | 100K 0.5% 1/16W |
| R135 | 1-218-947-11 | RES-CHIP | 330 5% | R315 | 1-208-935-11 | METAL CHIP | 100K 0.5% 1/16W |
| R137 | 1-208-683-11 | METAL CHIP | 1K 0.5% | R316 | 1-208-939-11 | METAL CHIP | 150K 0.5% 1/16W |
| R138 | 1-208-683-11 | METAL CHIP | 1K 0.5% | R317 | 1-208-709-11 | METAL CHIP | 12K 0.5% 1/16W |
| R140 | 1-218-939-11 | RES-CHIP | 68 5% | R318 | 1-208-941-11 | METAL CHIP | 180K 0.5% 1/16W |
| R142 | 1-218-939-11 | RES-CHIP | 68 5% | R319 | 1-208-939-11 | METAL CHIP | 150K 0.5% 1/16W |
| R143 | 1-218-933-11 | RES-CHIP | 22 5% | R320 | 1-208-683-11 | METAL CHIP | 1K 0.5% 1/16W |
| R144 | 1-218-933-11 | RES-CHIP | 22 5% | R321 | 1-208-711-11 | METAL CHIP | 15K 0.5% 1/16W |
| R145 | 1-218-933-11 | RES-CHIP | 22 5% | R322 | 1-216-821-11 | METAL CHIP | 1K 5% 1/10W |
| R146 | 1-218-933-11 | RES-CHIP | 22 5% | R333 | 1-216-864-11 | SHORT CHIP | 0 |
| R156 | 1-218-947-11 | RES-CHIP | 330 5% | R335 | 1-216-864-11 | SHORT CHIP | 0 |
| R158 | 1-208-683-11 | METAL CHIP | 1K 0.5% | R344 | 1-218-879-11 | METAL CHIP | 22K 0.5% 1/10W |
| R159 | 1-208-683-11 | METAL CHIP | 1K 0.5% | R345 | 1-218-873-11 | METAL CHIP | 12K 0.5% 1/10W |
| R177 | 1-218-943-11 | RES-CHIP | 150 5% | R352 | 1-218-953-11 | RES-CHIP | 1K 5% 1/16W |
| R178 | 1-218-943-11 | RES-CHIP | 150 5% | R357 | 1-218-953-11 | RES-CHIP | 1K 5% 1/16W |
| R179 | 1-218-943-11 | RES-CHIP | 150 5% | R361 | 1-208-703-11 | METAL CHIP | 6.8K 0.5% 1/16W |
| R180 | 1-218-943-11 | RES-CHIP | 150 5% | R362 | 1-208-715-11 | METAL CHIP | 22K 0.5% 1/16W |
| R181 | 1-220-169-11 | RES-CHIP | 75 5% | R367 | 1-218-953-11 | RES-CHIP | 1K 5% 1/16W |
| R188 | 1-216-864-11 | SHORT CHIP | 0 | R402 | 1-218-990-81 | SHORT CHIP | 0 |
| R190 | 1-216-864-11 | SHORT CHIP | 0 | R404 | 1-218-990-81 | SHORT CHIP | 0 |
| R191 | 1-216-864-11 | SHORT CHIP | 0 | R405 | 1-218-951-11 | RES-CHIP | 680 5% 1/16W |
| R192 | 1-216-864-11 | SHORT CHIP | 0 | R501 | 1-218-965-11 | RES-CHIP | 10K 5% 1/16W |
| R202 | 1-208-683-11 | METAL CHIP | 1K 0.5% | R502 | 1-218-965-11 | RES-CHIP | 10K 5% 1/16W |
| R203 | 1-208-683-11 | METAL CHIP | 1K 0.5% | R503 | 1-218-933-11 | RES-CHIP | 22 5% 1/16W |
| R208 | 1-208-663-11 | METAL CHIP | 150 0.5% | R504 | 1-218-933-11 | RES-CHIP | 22 5% 1/16W |
| R209 | 1-208-663-11 | METAL CHIP | 150 0.5% | R506 | 1-218-965-11 | RES-CHIP | 10K 5% 1/16W |
| R223 | 1-218-939-11 | RES-CHIP | 68 5% | R507 | 1-218-965-11 | RES-CHIP | 10K 5% 1/16W |
| R224 | 1-218-939-11 | RES-CHIP | 68 5% | R508 | 1-218-965-11 | RES-CHIP | 10K 5% 1/16W |
| R226 | 1-218-937-11 | RES-CHIP | 47 5% | R510 | 1-218-965-11 | RES-CHIP | 10K 5% 1/16W |
| R227 | 1-218-937-11 | RES-CHIP | 47 5% | R512 | 1-218-965-11 | RES-CHIP | 10K 5% 1/16W |
| R228 | 1-218-937-11 | RES-CHIP | 47 5% | R514 | 1-218-965-11 | RES-CHIP | 10K 5% 1/16W |
| R229 | 1-218-935-11 | RES-CHIP | 33 5% | R515 | 1-218-965-11 | RES-CHIP | 10K 5% 1/16W |
| | | | | R517 | 1-218-935-11 | RES-CHIP | 33 5% 1/16W |

| Ref. No. | Part No. | Description | | | Remark | Ref. No. | Part No. | Description | | | Remark |
|----------|--------------|-------------|------|------|--------|----------|--------------|-------------|------|------|--------|
| R518 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | R637 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W |
| R519 | 1-218-959-11 | RES-CHIP | 3.3K | 5% | 1/16W | R639 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W |
| R520 | 1-218-990-81 | SHORT CHIP | 0 | | | R641 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W |
| R522 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | R642 | 1-218-945-11 | RES-CHIP | 220 | 5% | 1/16W |
| R523 | 1-218-941-81 | RES-CHIP | 100 | 5% | 1/16W | R644 | 1-218-935-11 | RES-CHIP | 33 | 5% | 1/16W |
| R527 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | R645 | 1-218-935-11 | RES-CHIP | 33 | 5% | 1/16W |
| R528 | 1-218-933-11 | RES-CHIP | 22 | 5% | 1/16W | R646 | 1-218-935-11 | RES-CHIP | 33 | 5% | 1/16W |
| R529 | 1-218-933-11 | RES-CHIP | 22 | 5% | 1/16W | R647 | 1-218-961-11 | RES-CHIP | 4.7K | 5% | 1/16W |
| R530 | 1-218-990-81 | SHORT CHIP | 0 | | | R648 | 1-218-961-11 | RES-CHIP | 4.7K | 5% | 1/16W |
| R531 | 1-218-933-11 | RES-CHIP | 22 | 5% | 1/16W | R650 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W |
| R532 | 1-218-933-11 | RES-CHIP | 22 | 5% | 1/16W | R651 | 1-218-941-81 | RES-CHIP | 100 | 5% | 1/16W |
| R533 | 1-218-933-11 | RES-CHIP | 22 | 5% | 1/16W | R652 | 1-216-073-91 | RES-CHIP | 10K | 5% | 1/10W |
| R534 | 1-218-933-11 | RES-CHIP | 22 | 5% | 1/16W | R654 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R535 | 1-218-933-11 | RES-CHIP | 22 | 5% | 1/16W | R655 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R536 | 1-218-933-11 | RES-CHIP | 22 | 5% | 1/16W | R656 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R537 | 1-218-933-11 | RES-CHIP | 22 | 5% | 1/16W | R657 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R538 | 1-218-933-11 | RES-CHIP | 22 | 5% | 1/16W | R658 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R539 | 1-218-990-81 | SHORT CHIP | 0 | | | R659 | 1-218-961-11 | RES-CHIP | 4.7K | 5% | 1/16W |
| R540 | 1-218-933-11 | RES-CHIP | 22 | 5% | 1/16W | R660 | 1-218-961-11 | RES-CHIP | 4.7K | 5% | 1/16W |
| R541 | 1-218-933-11 | RES-CHIP | 22 | 5% | 1/16W | R661 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R542 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | R663 | 1-216-295-91 | SHORT CHIP | 0 | | |
| R543 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | R700 | 1-218-953-11 | RES-CHIP | 1K | 5% | 1/16W |
| R544 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | R702 | 1-218-953-11 | RES-CHIP | 1K | 5% | 1/16W |
| R545 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | R703 | 1-218-941-81 | RES-CHIP | 100 | 5% | 1/16W |
| R546 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | R704 | 1-218-941-81 | RES-CHIP | 100 | 5% | 1/16W |
| R547 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | R705 | 1-208-690-11 | METAL CHIP | 2K | 0.5% | 1/16W |
| R548 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | R706 | 1-218-941-81 | RES-CHIP | 100 | 5% | 1/16W |
| R549 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | R707 | 1-208-690-11 | METAL CHIP | 2K | 0.5% | 1/16W |
| R550 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | R708 | 1-211-986-11 | METAL CHIP | 51 | 0.5% | 1/10W |
| R551 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | R709 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R552 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | R710 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R553 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | R712 | 1-218-847-11 | METAL CHIP | 1K | 0.5% | 1/10W |
| R554 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | R714 | 1-218-959-11 | RES-CHIP | 3.3K | 5% | 1/16W |
| R555 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | R715 | 1-218-959-11 | RES-CHIP | 3.3K | 5% | 1/16W |
| R601 | 1-218-990-81 | SHORT CHIP | 0 | | | R719 | 1-218-967-11 | RES-CHIP | 15K | 5% | 1/16W |
| R605 | 1-218-935-11 | RES-CHIP | 33 | 5% | 1/16W | R721 | 1-218-973-11 | RES-CHIP | 47K | 5% | 1/16W |
| R606 | 1-218-935-11 | RES-CHIP | 33 | 5% | 1/16W | R722 | 1-218-961-11 | RES-CHIP | 4.7K | 5% | 1/16W |
| R607 | 1-218-935-11 | RES-CHIP | 33 | 5% | 1/16W | R723 | 1-218-959-11 | RES-CHIP | 3.3K | 5% | 1/16W |
| R608 | 1-218-935-11 | RES-CHIP | 33 | 5% | 1/16W | R724 | 1-218-956-11 | RES-CHIP | 1.8K | 5% | 1/16W |
| R609 | 1-218-935-11 | RES-CHIP | 33 | 5% | 1/16W | R725 | 1-218-956-11 | RES-CHIP | 1.8K | 5% | 1/16W |
| R610 | 1-218-935-11 | RES-CHIP | 33 | 5% | 1/16W | R726 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R611 | 1-218-935-11 | RES-CHIP | 33 | 5% | 1/16W | R727 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R612 | 1-218-935-11 | RES-CHIP | 33 | 5% | 1/16W | R728 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R613 | 1-218-935-11 | RES-CHIP | 33 | 5% | 1/16W | R729 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R614 | 1-218-935-11 | RES-CHIP | 33 | 5% | 1/16W | R730 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R615 | 1-218-935-11 | RES-CHIP | 33 | 5% | 1/16W | R731 | 1-218-967-11 | RES-CHIP | 15K | 5% | 1/16W |
| R616 | 1-218-935-11 | RES-CHIP | 33 | 5% | 1/16W | R735 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R617 | 1-218-990-81 | SHORT CHIP | 0 | | | R737 | 1-218-841-11 | METAL CHIP | 560 | 0.5% | 1/10W |
| R620 | 1-218-990-81 | SHORT CHIP | 0 | | | R738 | 1-218-841-11 | METAL CHIP | 560 | 0.5% | 1/10W |
| R622 | 1-218-990-81 | SHORT CHIP | 0 | | | R739 | 1-218-841-11 | METAL CHIP | 560 | 0.5% | 1/10W |
| R624 | 1-218-941-81 | RES-CHIP | 100 | 5% | 1/16W | R740 | 1-218-841-11 | METAL CHIP | 560 | 0.5% | 1/10W |
| R625 | 1-218-933-11 | RES-CHIP | 22 | 5% | 1/16W | R741 | 1-218-953-11 | RES-CHIP | 1K | 5% | 1/16W |
| R627 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | R743 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R628 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | R745 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R629 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | R746 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R632 | 1-208-884-81 | METAL CHIP | 750 | 0.5% | 1/16W | R808 | 1-218-937-11 | RES-CHIP | 47 | 5% | 1/16W |
| R633 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | R809 | 1-218-937-11 | RES-CHIP | 47 | 5% | 1/16W |
| R634 | 1-414-843-21 | INDUCTOR | 18nH | | | R810 | 1-218-937-11 | RES-CHIP | 47 | 5% | 1/16W |
| R635 | 1-414-843-21 | INDUCTOR | 18nH | | | R811 | 1-218-937-11 | RES-CHIP | 47 | 5% | 1/16W |
| R636 | 1-208-688-11 | METAL CHIP | 1.6K | 0.5% | 1/16W | R812 | 1-218-935-11 | RES-CHIP | 33 | 5% | 1/16W |

| Ref. No. | Part No. | Description | | | Remark | Ref. No. | Part No. | Description | | | Remark |
|----------|--------------|-------------|------|------|--------|----------|--------------|-------------|------|----|--------|
| R813 | 1-208-663-11 | METAL CHIP | 150 | 0.5% | 1/16W | R902 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W |
| R814 | 1-208-663-11 | METAL CHIP | 150 | 0.5% | 1/16W | R903 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R815 | 1-208-883-81 | METAL CHIP | 680 | 0.5% | 1/16W | R904 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W |
| R816 | 1-208-663-11 | METAL CHIP | 150 | 0.5% | 1/16W | R905 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R817 | 1-208-663-11 | METAL CHIP | 150 | 0.5% | 1/16W | R906 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W |
| R818 | 1-208-663-11 | METAL CHIP | 150 | 0.5% | 1/16W | R907 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R819 | 1-208-675-11 | METAL CHIP | 470 | 0.5% | 1/16W | R908 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R820 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | R909 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R821 | 1-218-953-11 | RES-CHIP | 1K | 5% | 1/16W | R913 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W |
| R823 | 1-218-990-81 | SHORT CHIP | 0 | | | R914 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W |
| R824 | 1-218-953-11 | RES-CHIP | 1K | 5% | 1/16W | R915 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W |
| R825 | 1-218-953-11 | RES-CHIP | 1K | 5% | 1/16W | R916 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W |
| R826 | 1-218-947-11 | RES-CHIP | 330 | 5% | 1/16W | R917 | 1-218-935-11 | RES-CHIP | 33 | 5% | 1/16W |
| R827 | 1-218-945-11 | RES-CHIP | 220 | 5% | 1/16W | R918 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W |
| R829 | 1-218-990-81 | SHORT CHIP | 0 | | | R919 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W |
| R830 | 1-218-939-11 | RES-CHIP | 68 | 5% | 1/16W | R920 | 1-218-929-11 | RES-CHIP | 10 | 5% | 1/16W |
| R831 | 1-218-947-11 | RES-CHIP | 330 | 5% | 1/16W | R921 | 1-218-929-11 | RES-CHIP | 10 | 5% | 1/16W |
| R833 | 1-218-990-81 | SHORT CHIP | 0 | | | R922 | 1-218-929-11 | RES-CHIP | 10 | 5% | 1/16W |
| R834 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | R923 | 1-218-929-11 | RES-CHIP | 10 | 5% | 1/16W |
| R835 | 1-208-691-11 | METAL CHIP | 2.2K | 0.5% | 1/16W | R924 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R836 | 1-208-691-11 | METAL CHIP | 2.2K | 0.5% | 1/16W | R925 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R837 | 1-208-695-11 | METAL CHIP | 3.3K | 0.5% | 1/16W | R926 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R838 | 1-208-695-11 | METAL CHIP | 3.3K | 0.5% | 1/16W | R927 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R839 | 1-218-947-11 | RES-CHIP | 330 | 5% | 1/16W | R928 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R841 | 1-218-990-81 | SHORT CHIP | 0 | | | R929 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R842 | 1-218-990-81 | SHORT CHIP | 0 | | | R930 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R843 | 1-218-947-11 | RES-CHIP | 330 | 5% | 1/16W | R931 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R845 | 1-218-990-81 | SHORT CHIP | 0 | | | R932 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R847 | 1-218-947-11 | RES-CHIP | 330 | 5% | 1/16W | R933 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W |
| R848 | 1-218-990-81 | SHORT CHIP | 0 | | | R934 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W |
| R849 | 1-218-933-11 | RES-CHIP | 22 | 5% | 1/16W | R935 | 1-218-935-11 | RES-CHIP | 33 | 5% | 1/16W |
| R850 | 1-218-933-11 | RES-CHIP | 22 | 5% | 1/16W | R936 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W |
| R851 | 1-218-933-11 | RES-CHIP | 22 | 5% | 1/16W | R938 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W |
| R852 | 1-218-933-11 | RES-CHIP | 22 | 5% | 1/16W | R939 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W |
| R853 | 1-218-933-11 | RES-CHIP | 22 | 5% | 1/16W | R940 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W |
| R858 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | R941 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W |
| R859 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | R942 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W |
| R860 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | R943 | 1-218-959-11 | RES-CHIP | 3.3K | 5% | 1/16W |
| R861 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | R944 | 1-218-953-11 | RES-CHIP | 1K | 5% | 1/16W |
| R862 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | R945 | 1-218-953-11 | RES-CHIP | 1K | 5% | 1/16W |
| R863 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | R946 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W |
| R864 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | R947 | 1-218-953-11 | RES-CHIP | 1K | 5% | 1/16W |
| R865 | 1-216-295-91 | SHORT CHIP | 0 | | | R948 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R873 | 1-218-990-81 | SHORT CHIP | 0 | | | R949 | 1-218-933-11 | RES-CHIP | 22 | 5% | 1/16W |
| R874 | 1-218-990-81 | SHORT CHIP | 0 | | | R950 | 1-218-933-11 | RES-CHIP | 22 | 5% | 1/16W |
| R875 | 1-218-990-81 | SHORT CHIP | 0 | | | R951 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R876 | 1-218-990-81 | SHORT CHIP | 0 | | | R952 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R877 | 1-218-990-81 | SHORT CHIP | 0 | | | R953 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R878 | 1-218-990-81 | SHORT CHIP | 0 | | | R954 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R879 | 1-218-990-81 | SHORT CHIP | 0 | | | R955 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R889 | 1-218-990-81 | SHORT CHIP | 0 | | | R956 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R890 | 1-218-990-81 | SHORT CHIP | 0 | | | R957 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R891 | 1-218-990-81 | SHORT CHIP | 0 | | | R958 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R892 | 1-218-990-81 | SHORT CHIP | 0 | | | R959 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R893 | 1-218-990-81 | SHORT CHIP | 0 | | | R960 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R894 | 1-218-990-81 | SHORT CHIP | 0 | | | R961 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R895 | 1-218-990-81 | SHORT CHIP | 0 | | | R962 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W |
| R896 | 1-218-990-81 | SHORT CHIP | 0 | | | R963 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W |
| R899 | 1-218-990-81 | SHORT CHIP | 0 | | | R964 | 1-218-941-81 | RES-CHIP | 100 | 5% | 1/16W |
| R901 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | R965 | 1-218-990-81 | SHORT CHIP | 0 | | |

| Ref. No. | Part No. | Description | Quantity | Percentage | Remark | Ref. No. | Part No. | Description | Quantity | Percentage | Remark |
|----------|--------------|-------------|----------|------------|--------|----------|--------------|-------------------------------|--------------|------------|--------|
| R966 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | R8026 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R967 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | R8027 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R969 | 1-218-977-11 | RES-CHIP | 100K | 5% | 1/16W | R8028 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R970 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | R8029 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R972 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | R8034 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W |
| R973 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | R8035 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W |
| R974 | 1-218-990-81 | SHORT CHIP | 0 | | | R8036 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W |
| R975 | 1-218-990-81 | SHORT CHIP | 0 | | | R8038 | 1-218-941-81 | RES-CHIP | 100 | 5% | 1/16W |
| R976 | 1-218-990-81 | SHORT CHIP | 0 | | | R8039 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R977 | 1-218-990-81 | SHORT CHIP | 0 | | | R8040 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R978 | 1-218-990-81 | SHORT CHIP | 0 | | | R8041 | 1-218-955-11 | RES-CHIP | 1.5K | 5% | 1/16W |
| R979 | 1-218-990-81 | SHORT CHIP | 0 | | | R8042 | 1-218-955-11 | RES-CHIP | 1.5K | 5% | 1/16W |
| R980 | 1-218-990-81 | SHORT CHIP | 0 | | | R8044 | 1-218-937-11 | RES-CHIP | 47 | 5% | 1/16W |
| R981 | 1-218-990-81 | SHORT CHIP | 0 | | | R8045 | 1-218-937-11 | RES-CHIP | 47 | 5% | 1/16W |
| R982 | 1-218-990-81 | SHORT CHIP | 0 | | | R9001 | 1-218-961-11 | RES-CHIP | 4.7K | 5% | 1/16W |
| R983 | 1-218-990-81 | SHORT CHIP | 0 | | | R9002 | 1-218-961-11 | RES-CHIP | 4.7K | 5% | 1/16W |
| R984 | 1-218-990-81 | SHORT CHIP | 0 | | | R9003 | 1-218-961-11 | RES-CHIP | 4.7K | 5% | 1/16W |
| R985 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | R9004 | 1-218-961-11 | RES-CHIP | 4.7K | 5% | 1/16W |
| R986 | 1-218-990-81 | SHORT CHIP | 0 | | | R9005 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R988 | 1-218-933-11 | RES-CHIP | 22 | 5% | 1/16W | R9006 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R990 | 1-218-933-11 | RES-CHIP | 22 | 5% | 1/16W | R9007 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R991 | 1-218-933-11 | RES-CHIP | 22 | 5% | 1/16W | R9021 | 1-218-941-81 | RES-CHIP | 100 | 5% | 1/16W |
| R992 | 1-218-935-11 | RES-CHIP | 33 | 5% | 1/16W | R9022 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R993 | 1-218-961-11 | RES-CHIP | 4.7K | 5% | 1/16W | | | < COMPOSITION CIRCUIT BLOCK > | | | |
| R994 | 1-218-935-11 | RES-CHIP | 33 | 5% | 1/16W | RB109 | 1-234-371-21 | RES, NETWORK | 47 (1005X4) | | |
| R995 | 1-218-961-11 | RES-CHIP | 4.7K | 5% | 1/16W | RB110 | 1-234-371-21 | RES, NETWORK | 47 (1005X4) | | |
| R996 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | RB112 | 1-234-371-21 | RES, NETWORK | 47 (1005X4) | | |
| R997 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | RB113 | 1-234-371-21 | RES, NETWORK | 47 (1005X4) | | |
| R998 | 1-218-990-81 | SHORT CHIP | 0 | | | * RB122 | 1-234-723-21 | RES, NETWORK | 75 (1005X4) | | |
| R999 | 1-218-933-11 | RES-CHIP | 22 | 5% | 1/16W | * RB123 | 1-234-723-21 | RES, NETWORK | 75 (1005X4) | | |
| R1801 | 1-218-990-81 | SHORT CHIP | 0 | | | * RB124 | 1-234-723-21 | RES, NETWORK | 75 (1005X4) | | |
| R1802 | 1-218-990-81 | SHORT CHIP | 0 | | | * RB125 | 1-234-723-21 | RES, NETWORK | 75 (1005X4) | | |
| R1806 | 1-218-990-81 | SHORT CHIP | 0 | | | * RB126 | 1-234-723-21 | RES, NETWORK | 75 (1005X4) | | |
| R7004 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | RB209 | 1-234-371-21 | RES, NETWORK | 47 (1005X4) | | |
| R7005 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | RB210 | 1-234-371-21 | RES, NETWORK | 47 (1005X4) | | |
| R7006 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | RB211 | 1-234-371-21 | RES, NETWORK | 47 (1005X4) | | |
| R7010 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | RB213 | 1-234-371-21 | RES, NETWORK | 47 (1005X4) | | |
| R7011 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | * RB223 | 1-234-723-21 | RES, NETWORK | 75 (1005X4) | | |
| R7012 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | * RB225 | 1-234-723-21 | RES, NETWORK | 75 (1005X4) | | |
| R8002 | 1-218-929-11 | RES-CHIP | 10 | 5% | 1/16W | * RB226 | 1-234-723-21 | RES, NETWORK | 75 (1005X4) | | |
| R8003 | 1-208-692-11 | METAL CHIP | 2.4K | 0.5% | 1/16W | * RB227 | 1-234-723-21 | RES, NETWORK | 75 (1005X4) | | |
| R8004 | 1-245-369-91 | METAL CHIP | 49.9 | 1% | 1/16W | * RB229 | 1-234-723-21 | RES, NETWORK | 75 (1005X4) | | |
| R8005 | 1-208-911-11 | METAL CHIP | 10K | 0.5% | 1/16W | RB502 | 1-234-370-21 | RES, NETWORK | 22 (1005X4) | | |
| R8006 | 1-245-369-91 | METAL CHIP | 49.9 | 1% | 1/16W | RB503 | 1-234-370-21 | RES, NETWORK | 22 (1005X4) | | |
| R8007 | 1-245-369-91 | METAL CHIP | 49.9 | 1% | 1/16W | RB504 | 1-234-370-21 | RES, NETWORK | 22 (1005X4) | | |
| R8008 | 1-245-369-91 | METAL CHIP | 49.9 | 1% | 1/16W | RB505 | 1-234-370-21 | RES, NETWORK | 22 (1005X4) | | |
| R8009 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | RB506 | 1-234-370-21 | RES, NETWORK | 22 (1005X4) | | |
| R8010 | 1-218-990-81 | SHORT CHIP | 0 | | | RB507 | 1-234-370-21 | RES, NETWORK | 22 (1005X4) | | |
| R8011 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | RB508 | 1-234-378-21 | RES, NETWORK | 10K (1005X4) | | |
| R8013 | 1-218-990-81 | SHORT CHIP | 0 | | | RB510 | 1-234-378-21 | RES, NETWORK | 10K (1005X4) | | |
| R8014 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | RB511 | 1-234-370-21 | RES, NETWORK | 22 (1005X4) | | |
| R8015 | 1-218-990-81 | SHORT CHIP | 0 | | | RB512 | 1-234-370-21 | RES, NETWORK | 22 (1005X4) | | |
| R8017 | 1-218-990-81 | SHORT CHIP | 0 | | | RB513 | 1-234-370-21 | RES, NETWORK | 22 (1005X4) | | |
| R8018 | 1-218-990-81 | SHORT CHIP | 0 | | | RB514 | 1-234-370-21 | RES, NETWORK | 22 (1005X4) | | |
| R8019 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | RB515 | 1-234-400-21 | CONDUCTOR, NETWORK (1005X4) | | | |
| R8020 | 1-218-990-81 | SHORT CHIP | 0 | | | RB516 | 1-234-400-21 | CONDUCTOR, NETWORK (1005X4) | | | |
| R8021 | 1-218-990-81 | SHORT CHIP | 0 | | | RB517 | 1-234-400-21 | CONDUCTOR, NETWORK (1005X4) | | | |
| R8022 | 1-218-990-81 | SHORT CHIP | 0 | | | RB518 | 1-234-400-21 | CONDUCTOR, NETWORK (1005X4) | | | |
| R8024 | 1-218-965-11 | RES-CHIP | 10K | 5% | 1/16W | RB519 | 1-234-400-21 | CONDUCTOR, NETWORK (1005X4) | | | |
| R8025 | 1-218-990-81 | SHORT CHIP | 0 | | | | | | | | |

| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|---|--------|----------|--------------|---------------------------------------|-------------------------|
| RB520 | 1-234-400-21 | CONDUCTOR, NETWORK (1005X4) | | 59 | 1-835-296-11 | CABLE, FLEXIBLE FLAT (FMA-022) | |
| RB600 | 1-242-963-21 | RES, NETWORK 33 (1005X4) | | △ 101 | 1-474-088-11 | REGULATOR, SWITCHING (ZSSR774MA) | (US, CND) |
| RB601 | 1-242-963-21 | RES, NETWORK 33 (1005X4) | | △ 101 | 1-474-088-31 | REGULATOR, SWITCHING (ZSSR774HA) | (AEP, UK, AUS, RUS, KR) |
| RB602 | 1-242-963-21 | RES, NETWORK 33 (1005X4) | | △ 101 | 1-474-088-41 | REGULATOR, SWITCHING (ZSSR774IA) | (E, HK, TW, TH) |
| RB603 | 1-242-963-21 | RES, NETWORK 33 (1005X4) | | △ 101 | 1-474-088-51 | REGULATOR, SWITCHING (ZSSR774CA) (CH) | |
| RB604 | 1-242-963-21 | RES, NETWORK 33 (1005X4) | | △ 102 | A-1540-573-A | DRIVE (SERVICE USE), BD | |
| RB605 | 1-242-963-21 | RES, NETWORK 33 (1005X4) | | 103 | 1-966-155-11 | HARNESS (SAT-003) | |
| RB606 | 1-242-963-21 | RES, NETWORK 33 (1005X4) | | M501 | 1-787-760-11 | FAN, D.C. | |
| RB607 | 1-242-963-21 | RES, NETWORK 33 (1005X4) | | | | | |
| RB608 | 1-242-963-21 | RES, NETWORK 33 (1005X4) | | | | | |
| RB609 | 1-242-963-21 | RES, NETWORK 33 (1005X4) | | | | | |
| RB610 | 1-242-963-21 | RES, NETWORK 33 (1005X4) | | | | | |
| RB611 | 1-242-963-21 | RES, NETWORK 33 (1005X4) | | | | | |
| RB612 | 1-242-963-21 | RES, NETWORK 33 (1005X4) | | | | | |
| RB613 | 1-242-963-21 | RES, NETWORK 33 (1005X4) | | | | | |
| RB614 | 1-242-963-21 | RES, NETWORK 33 (1005X4) | | | | | |
| RB615 | 1-242-963-21 | RES, NETWORK 33 (1005X4) | | | | | |
| RB616 | 1-242-963-21 | RES, NETWORK 33 (1005X4) | | | | | |
| RB617 | 1-242-963-21 | RES, NETWORK 33 (1005X4) | | | | | |
| RB618 | 1-242-963-21 | RES, NETWORK 33 (1005X4) | | | | | |
| RB619 | 1-242-963-21 | RES, NETWORK 33 (1005X4) | | | | | |
| RB621 | 1-234-377-21 | RES, NETWORK 4.7K (1005X4) | | | | | |
| RB622 | 1-234-377-21 | RES, NETWORK 4.7K (1005X4) | | | | | |
| RB900 | 1-234-378-21 | RES, NETWORK 10K (1005X4) | | | | | |
| RB901 | 1-234-378-21 | RES, NETWORK 10K (1005X4) | | | | | |
| RB902 | 1-234-378-21 | RES, NETWORK 10K (1005X4) | | | | | |
| RB903 | 1-234-378-21 | RES, NETWORK 10K (1005X4) | | | | | |
| RB7000 | 1-234-378-21 | RES, NETWORK 10K (1005X4) | | | | | |
| RB7001 | 1-234-378-21 | RES, NETWORK 10K (1005X4) | | | | | |
| RB7004 | 1-234-378-21 | RES, NETWORK 10K (1005X4) | | | | | |
| RB7005 | 1-234-378-21 | RES, NETWORK 10K (1005X4) | | | | | |
| RB7010 | 1-234-378-21 | RES, NETWORK 10K (1005X4) | | | | | |
| RB7011 | 1-234-378-21 | RES, NETWORK 10K (1005X4) | | | | | |
| RB7012 | 1-234-378-21 | RES, NETWORK 10K (1005X4) | | | | | |
| RB7013 | 1-234-378-21 | RES, NETWORK 10K (1005X4) | | | | | |
| | | < THERMISTOR > | | | | | |
| TH901 | 1-804-045-11 | THERMISTOR | | | | | |
| | | < VIBRATOR > | | | | | |
| X600 | 1-813-263-11 | OSCILLATOR, CRYSTAL (33MHz) | | | | | |
| X601 | 1-813-208-11 | VIBRATOR, CRYSTAL (30MHz) | | | | | |
| X701 | 1-813-052-21 | VIBRATOR, CRYSTAL (25MHz) | | | | | |
| X8001 | 1-813-821-11 | OSCILLATOR, CRYSTAL (50MHz) | | | | | |
| | A-1540-046-A | USB-008 BOARD, COMPLETE ***** (Ref. No. 20, 000 Series) | | | | | |
| | | < CONNECTOR > | | | | | |
| CN361 | 1-817-109-11 | CONNECTOR, USB (A) (EXT) | | | | | |
| CN362 | 1-566-760-11 | PIN, CONNECTOR (PC BOARD) 5P | | | | | |
| | | MISCELLANEOUS PARTS ***** | | | | | |
| 54 | 1-835-294-11 | CABLE, FLEXIBLE FLAT (FFI-001) | | | | | |
| 55 | 1-835-295-11 | CABLE, FLEXIBLE FLAT (FFI-002) | | | | | |
| 57 | 1-835-293-11 | CABLE, FLEXIBLE FLAT (FMI-005) | | | | | |
| 58 | 1-835-292-11 | CABLE, FLEXIBLE FLAT (FMA-021) | | | | | |

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.

