

DVP-CX995V

SERVICE MANUAL

Ver. 1.2 2007.06

US Model
Canadian Model



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- ** "DTS" and "DTS Digital Surround" are registered trademarks of Digital Theater Systems, Inc.

Model Name Using Similar Mechanism	NEW
CD/DVD Mechanism Type	CDM62-DVBU65
Base Unit Name	DVBU65
Optical Traverse Unit Name	DBU-3

SPECIFICATIONS

System

Laser: Semiconductor laser

λ = 780 nm for CD

λ = 650 nm for Super Audio CD and DVD

Emission duration: continuous

Signal format system: NTSC

Audio characteristics

Frequency response: DVD VIDEO (PCM 96 kHz): 2 Hz to 44 kHz (44 kHz: -2 dB $\pm$ 1 dB), Super Audio CD: 2 Hz to 100 kHz (50 kHz: -3 dB $\pm$ 1 dB), CD: 2 Hz to 20 kHz ($\pm$ 0.5 dB)

Signal-to-noise ratio (S/N ratio): 115 dB (LINE OUT AUDIO L/R 1/2 jacks only)

Harmonic distortion: 0.003 %

Dynamic range: DVD VIDEO/Super Audio CD: 103 dB, CD: 99 dB

Wow and flutter: Less than detected value ($\pm$ 0.001% W PEAK)

Outputs

(Jack name: Jack type/Output level/Load impedance)

LINE OUT AUDIO L/R 1/2: 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 OUTPUT: TypeA (19 pin)

5.1CH OUTPUT: Phono jack/2 Vrms/ 10 kilohms

COMPONENT VIDEO OUT(Y, P_B/C_B, P_R/C_R):

Phono jack/Y: 1.0 Vp-p/P_B/C_B, P_R/C_R: interlace¹⁾ = 0.648 Vp-p, progressive or interlace²⁾ = 0.7 Vp-p/75 ohms

1) BLACK LEVEL (COMPONENT OUT) is ON

2) BLACK LEVEL (COMPONENT OUT) is OFF

LINE OUT (VIDEO) 1/2: Phono jack/ 1.0 Vp-p/75 ohms

S VIDEO OUT 1/2: 4-pin mini DIN/Y: 1.0 Vp-p, C: 0.286 Vp-p/75 ohms

General

Power requirements:

120 V AC, 60 Hz

Power consumption: 25 W

Dimensions (approx.): 430 $\times$ 189 $\times$ 545 mm (17 $\times$ 7 1/2 $\times$ 21 1/2 in.) (width/height/depth) incl. projecting parts

Mass (approx.): 8.6 kg (18 lb 15 oz)

Operating temperature: 5 $^{\circ}$ C to 35 $^{\circ}$ C (41 $^{\circ}$ F to 95 $^{\circ}$ F)

Operating humidity: 25 % to 80 %

Supplied accessories

- Audio/video cord (pinplug $\times$ 3 $\leftrightarrow$ pinplug $\times$ 3) (1)
- Remote commander (remote) (1)
- Size AA (R6) batteries (2)

Specifications and design are subject to change without notice.

CD/DVD PLAYER

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

SAFETY CHECK-OUT

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

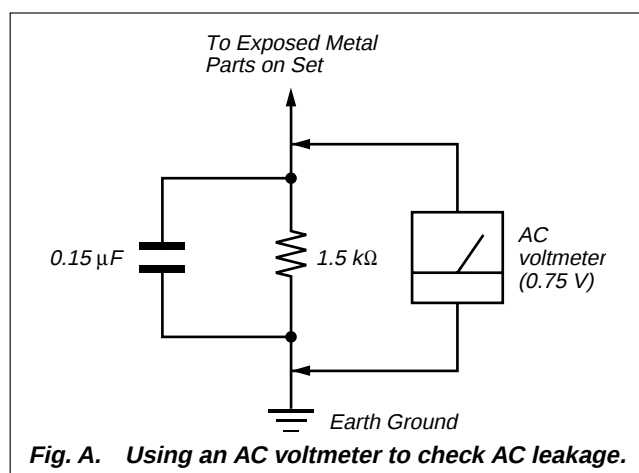
Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage.

Check leakage as described below.

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 0.75 V, 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 2 V AC range are suitable. (See Fig. A)

**CAUTION**

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

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.

**ATTENTION AU COMPOSANT AYANT RAPPORT
À LA SÉCURITÉ!**

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.

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 COM- POSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

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SECTION 1

SERVICING NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

NOTES ON REPLACEMENT OF THE MB BOARD

1. Flash Memory

New part of flash memory (IC202) on the MB board cannot be used. Therefore, if the mounted MB board (A-1132-163-A) is replaced, exchange new flash memory with that used before the replacement.

2. Adjustment

When replacing the mounted MB board (A-1132-163-A), since the adjustment value is not set up correctly, "Drive Auto Adjustment" in the Test Mode can't be performed.

In this case, initialize memory in the following procedures.

Procedure:

1. Connect a video monitor to VIDEO LINE OUT jack (J103).
2. Press the [TOP MENU], [CLEAR], [II/III] keys on the remote commander (RM-ASP001) in this order with standby status to enter the Test Mode, then "DIAG START" will be displayed on the fluorescent indicator tube and the Test Mode Menu screen will be displayed on the video monitor.
3. Press the [2] key on the remote commander to select the "2. Drive Manual Operation".
4. Press the [6] key on the remote commander to select the "6. Memory Check".
5. Press the [CLEAR] key on the remote commander to initialize the memory.

Note: Refer to page 22 for detail of the Test Mode.

NOTE OF HANDLING THE AV BOARD (Part No. A-1126-999-A)

When the AV board is replaced by a repair for a fee, throw away the AV board after obtaining consent of not returning of the AV board to the customer. When throwing away the AV board, be sure to throw away after destroying IC600 physically with the hammer etc.

SETTING OR RELEASING THE FRONT COVER LOCK

Procedure:

1. Press the [II/III] button to turn the power on.
2. Press two buttons of [■] and [OPEN/CLOSE] on the main unit for 5 seconds or more.

Note: The setting method and the releasing method are the same operation.

This Player Can Play the Following Discs

Format of discs	
DVD VIDEO	
DVD-RW	
Super Audio CD	
VIDEO CD	
Music CD	

“DVD VIDEO” and “DVD-RW” are trademarks.

Note about CDs

The player can play CD-ROMs/CD-Rs/CD-RWs recorded in the following formats:

- music CD format
- video CD format
- MP3 audio tracks and JPEG image files of format conforming to ISO 9660* Level 1/Level 2, or its extended format, Joliet
- KODAK Picture CD format

* A logical format of files and folders on CD-ROMs, defined by ISO (International Organization for Standardization).

Attention Regarding DualDisc software

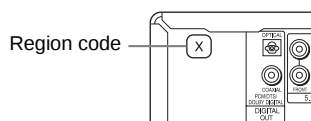
This product has been engineered to provide the highest entertainment value while playing standard CD and DVD discs. DualDisc used with this product may jam in the slots or racks of disc holders or in the disc consoles and should not be used with this product.

Region code

Your player has a region code printed on the back of the unit and will only play DVD VIDEOS (playback only) labeled with identical region codes. This system is used to protect copyrights.

DVD VIDEOS labeled  will also play on this player.

If you try to play any other DVD VIDEO, the message “Playback prohibited by area limitations.” will appear on the TV screen. Depending on the DVD VIDEO, no region code indication may be labeled even though playing the DVD VIDEO is prohibited by area restrictions.



Example of discs that the player cannot play

The player cannot play the following discs:

- CD-ROMs/CD-Rs/CD-RWs other than those recorded in the format listed on the previous page.
- Data part of CD-Extras
- DVD-ROMs
- DVD Audios

Also, the player cannot play the following discs:

- A DVD VIDEO with a different region code.
- A disc recorded in a color system other than NTSC, such as PAL or SECAM (this player conforms to the NTSC color system).
- A disc that has a non-standard shape (e.g., card, heart).
- A disc with paper or stickers on it.
- A disc that has the adhesive of cellophane tape or a sticker still left on it.
- DVD-Rs recorded in VR mode (Video Recording format)
- Copy-Once programs recorded on CPRM* compatible DVD-Rs.
- An 8 cm disc (The 12 cm disc adapter should not be used for 8 cm discs because it

may cause the disc to jam or the player to malfunction).

* CPRM; Content Protection for Recordable Media is a coding technology that protects copyright for Copy-Once programs.

Notes

• Notes about DVD+RWs/DVD+Rs, DVD-RWs/DVD-Rs or CD-Rs/CD-RWs

Some DVD+RWs/DVD+Rs, DVD-RWs/DVD-Rs or CD-Rs/CD-RWs cannot be played on this player due to the recording quality or physical condition of the disc, or the characteristics of the recording device and authoring software. The disc will not play if it has not been correctly finalized. For more information, see the operating instructions for the recording device. Note that some playback functions may not work with some DVD+RWs/DVD+Rs, even if they have been correctly finalized. In this case, view the disc by normal playback. Also some DATA CDs created in Packet Write format cannot be played.

• Music discs encoded with copyright protection technologies

This product is designed to playback discs that conform to the Compact Disc (CD) standard. Recently, various music discs encoded with copyright protection technologies are marketed by some record companies. Please be aware that among those discs, there are some that do not conform to the CD standard and may not be playable by this product.

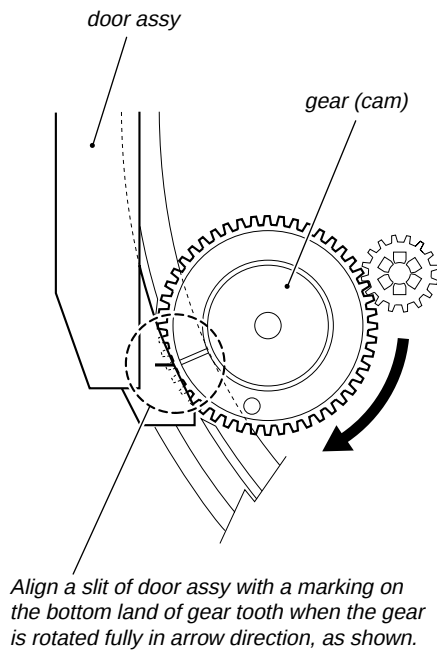
Note on playback operations of DVDs and VIDEO CDs

Some playback operations of DVDs and VIDEO CDs may be intentionally set by software producers. Since this player plays DVDs and VIDEO CDs according to the disc contents the software producers designed, some playback features may not be available. Also, refer to the instructions supplied with the DVDs or VIDEO CDs.

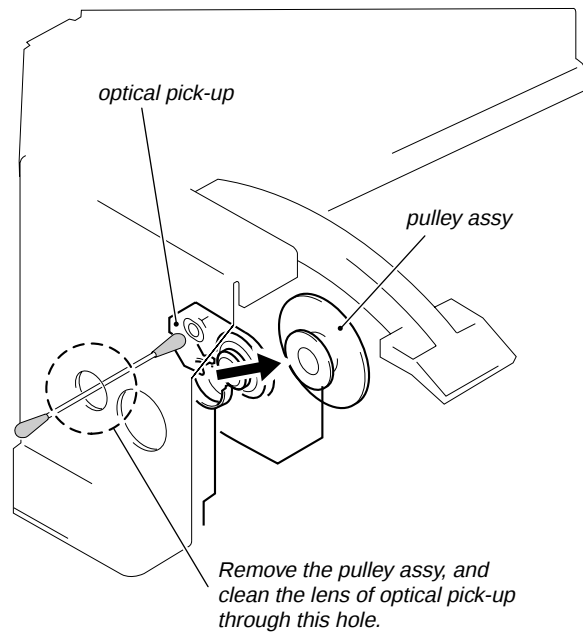
Copyrights

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

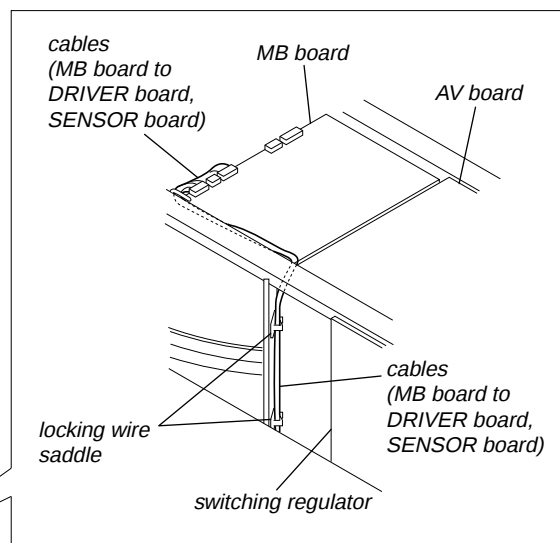
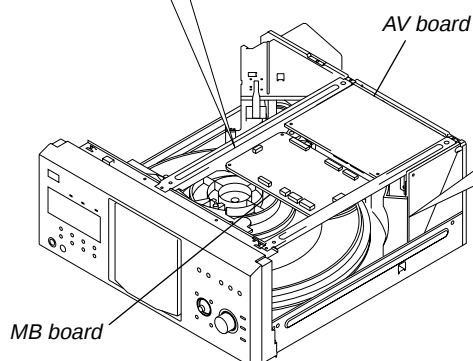
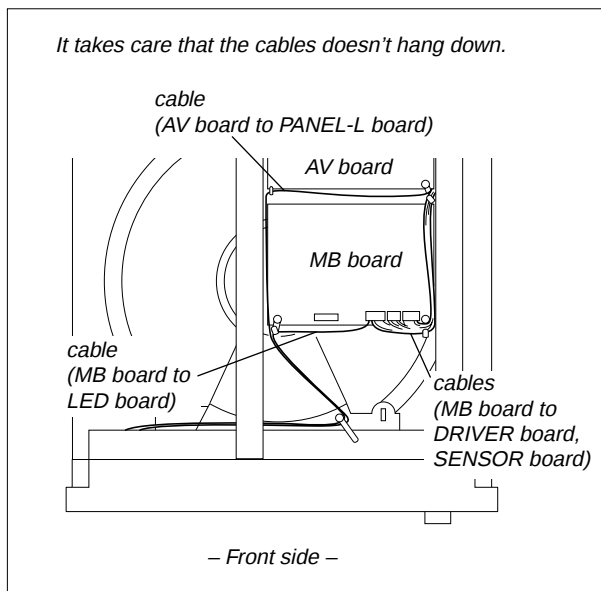
ALIGNMENT OF GEAR (CAM) PHASE WITH DOOR ASS'Y



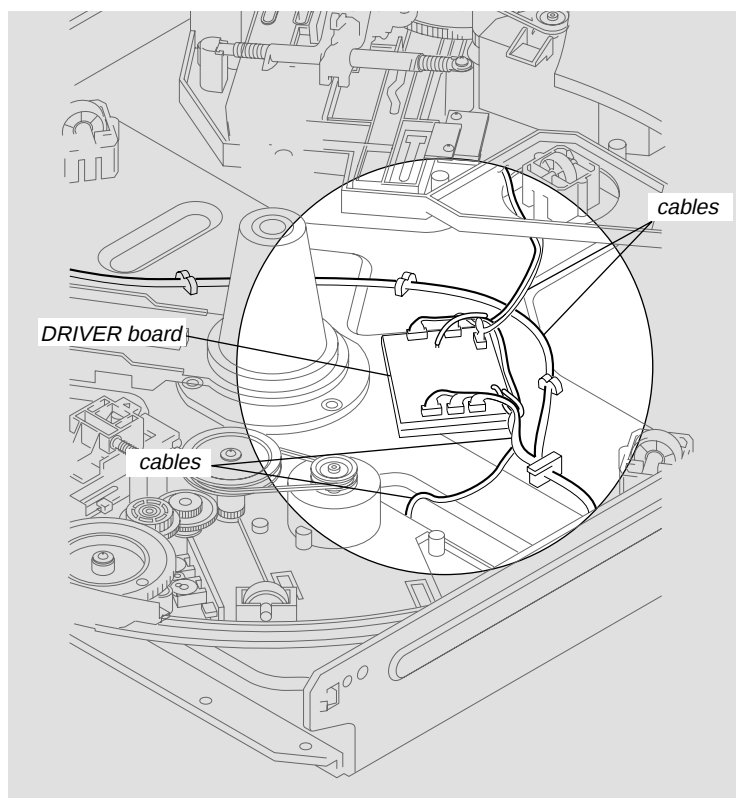
CLEANING OF OPTICAL PICK-UP



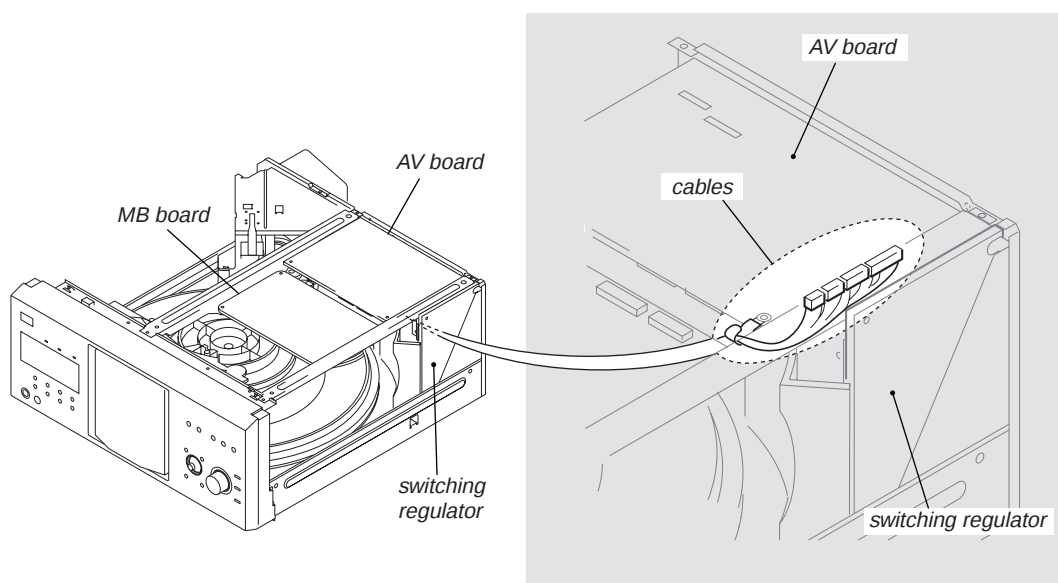
NOTE FOR INSTALLATION



When installing the cables, it is made to make it crawl in a chassis.

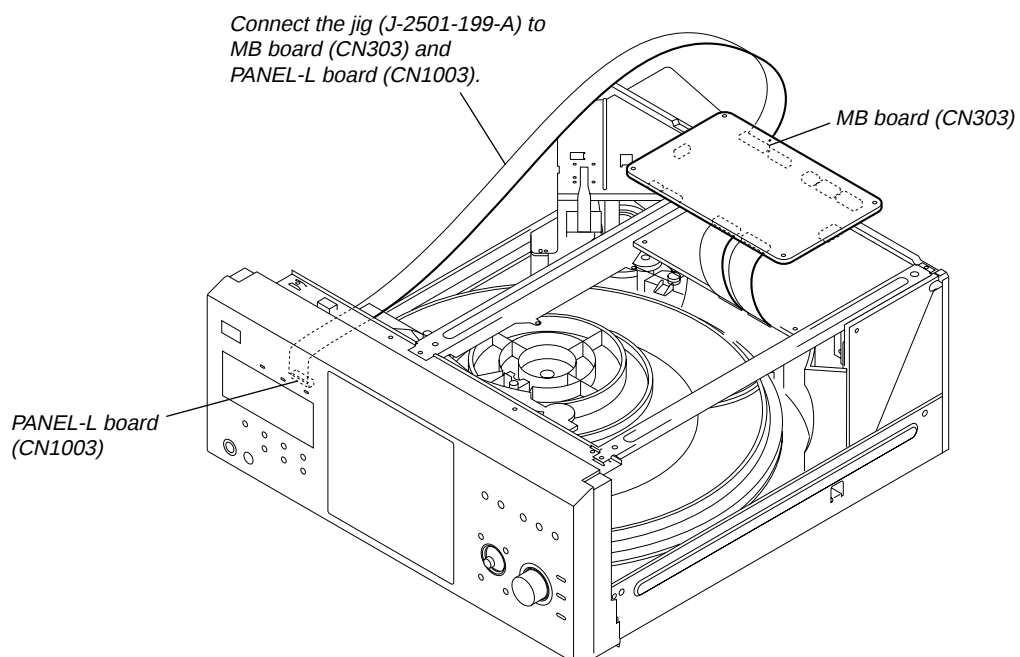


It is made to contact and for there not to be a switching regulator and cables.

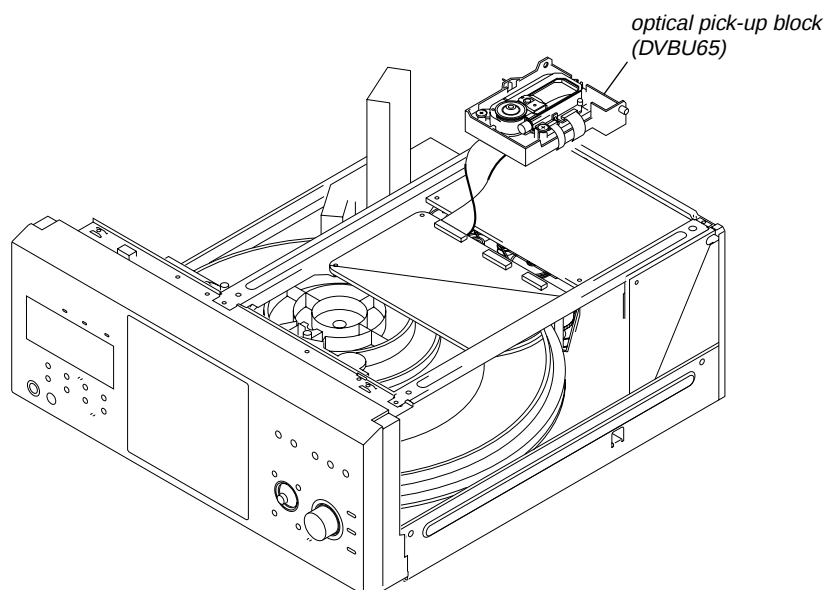


SERVICE POSITION

– MB board –



– Optical pick-up block –

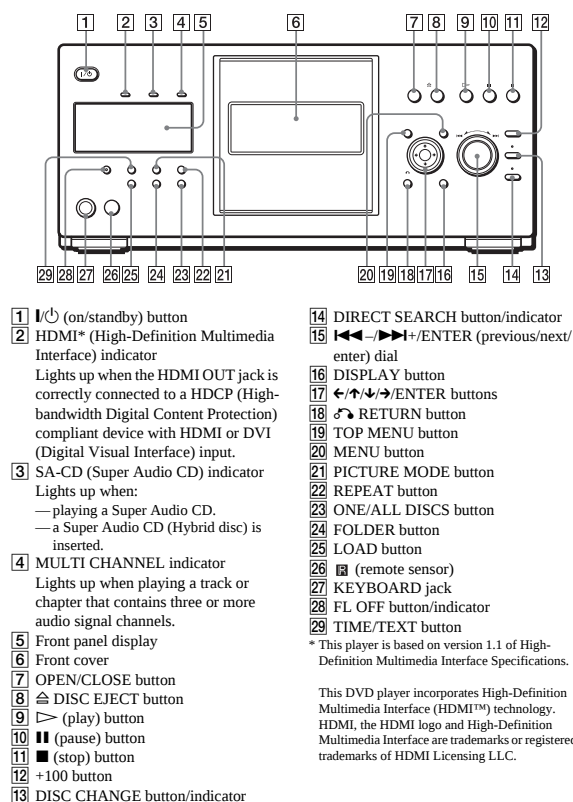


SECTION 2 GENERAL

This section is extracted from instruction manual.

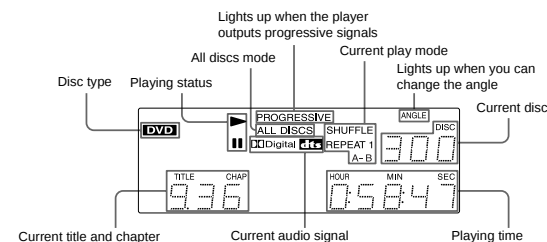
• Location of Controls

Front panel

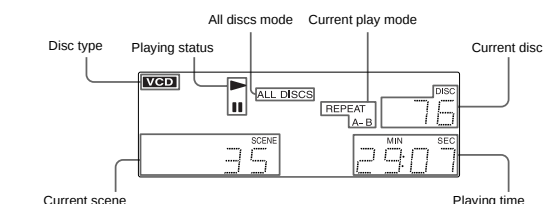


Front panel display

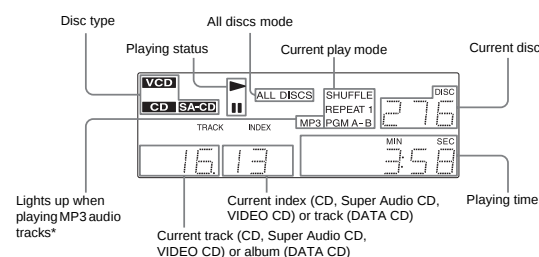
When playing back a DVD VIDEO/DVD-RW



When playing back a VIDEO CD with Playback Control (PBC)



When playing back a CD, Super Audio CD, DATA CD (MP3 audio), or VIDEO CD (without PBC)



* When playing JPEG image files, "JPEG" appears on the display

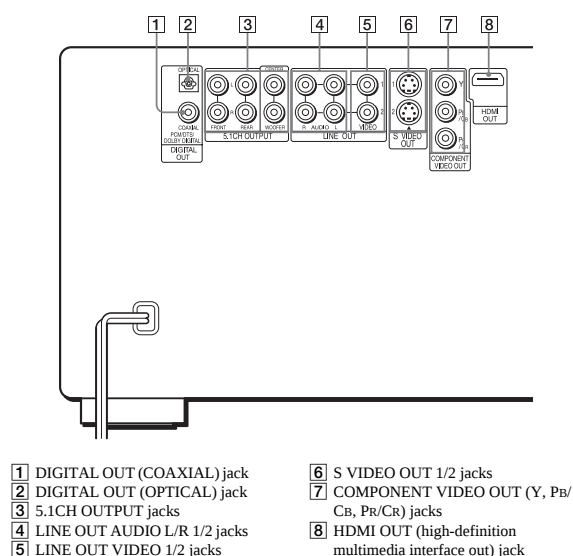
To turn off the front panel display

Press FL OFF on the player. The front panel display turns off, and the FL OFF indicator on the player lights up.

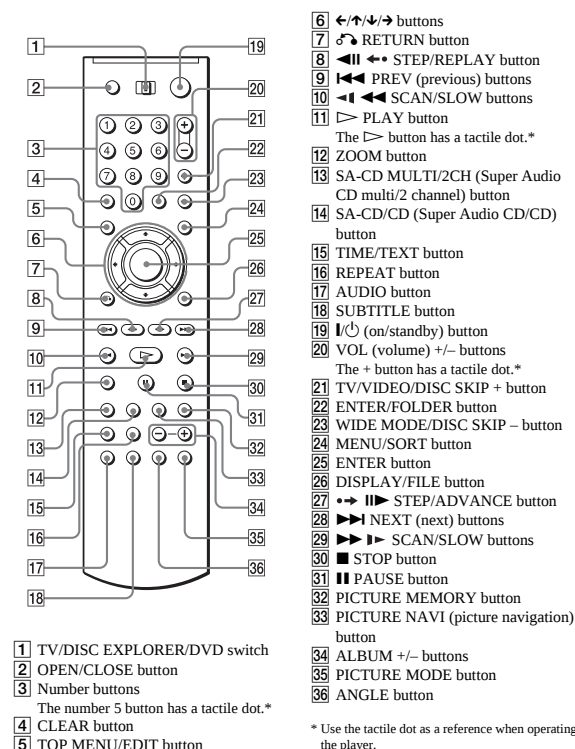
Hint

You can adjust the lighting of the front panel display by setting "DIMMER" in "CUSTOM SETUP".

Rear panel



Remote



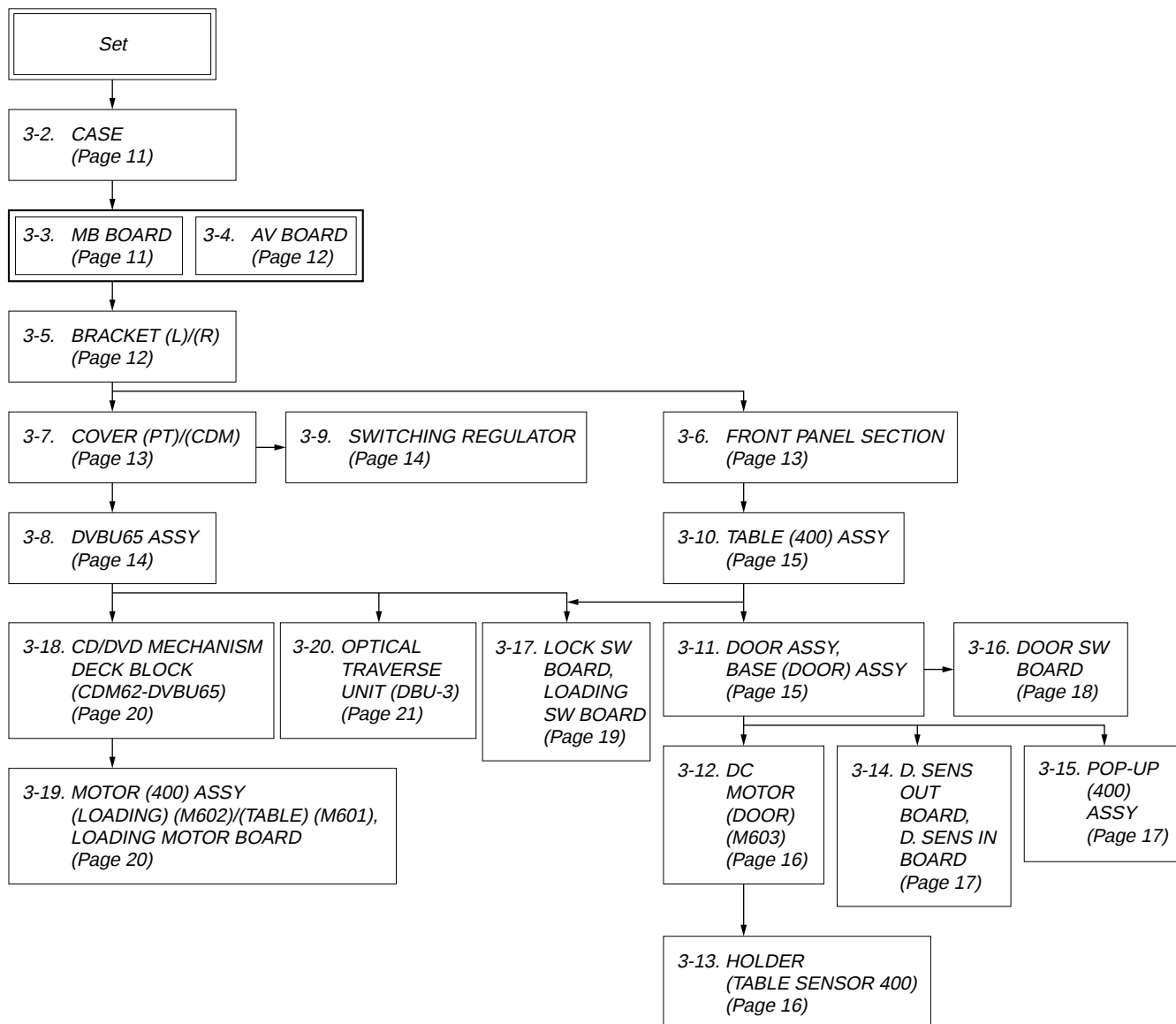
SECTION 3 DISASSEMBLY

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

3-1. DISASSEMBLY FLOW

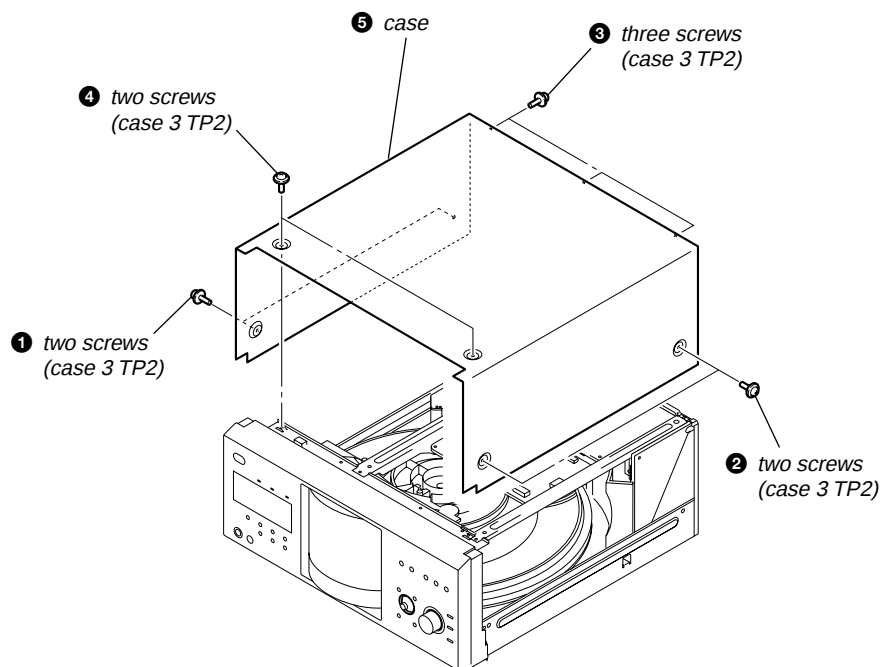
Note 1: The process described in  can be performed in any order.

Note 2: Without completing the process described in , the next process can not be performed.

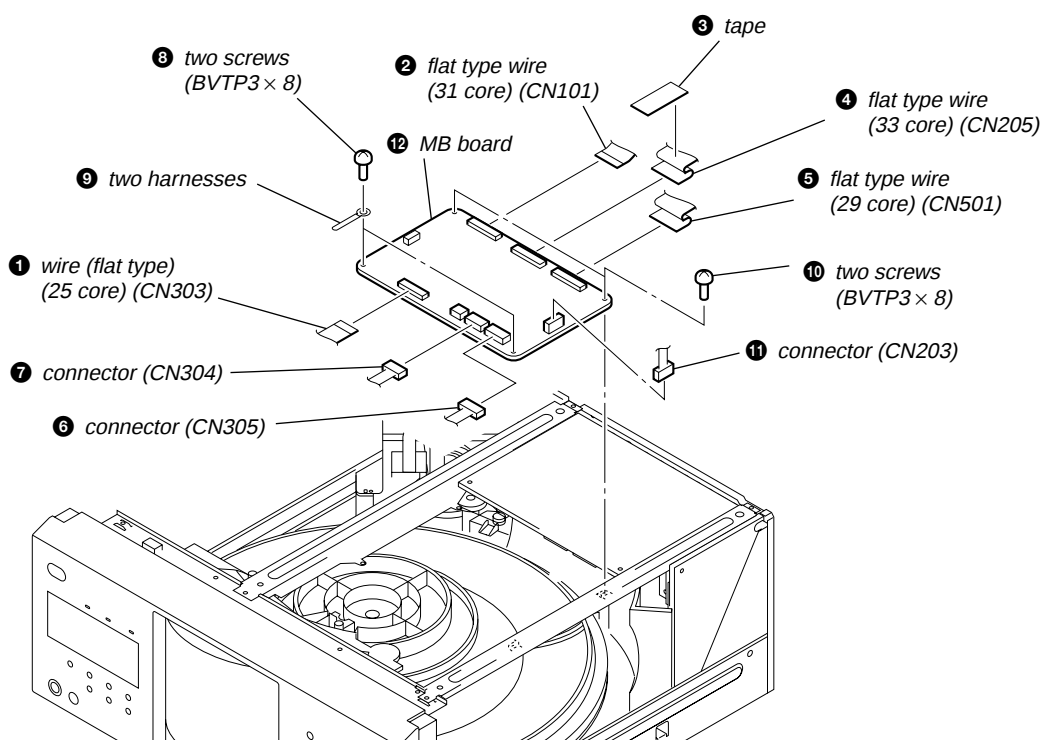


Note: Follow the disassembly procedure in the numerical order given.

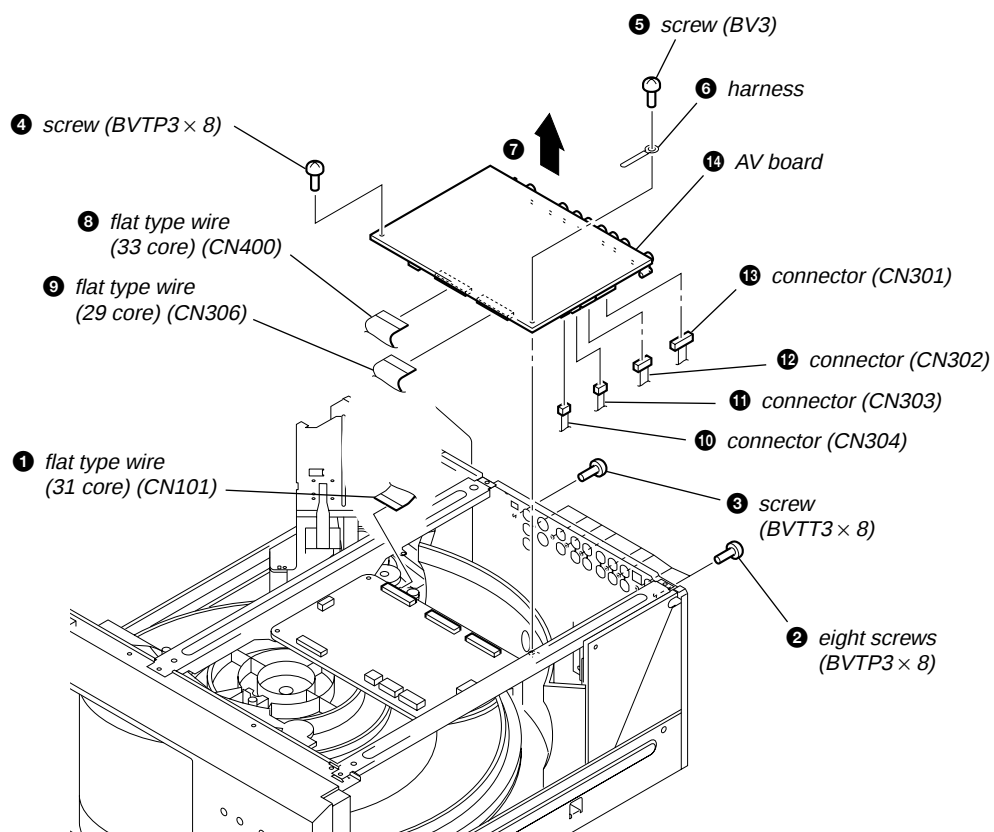
3-2. CASE



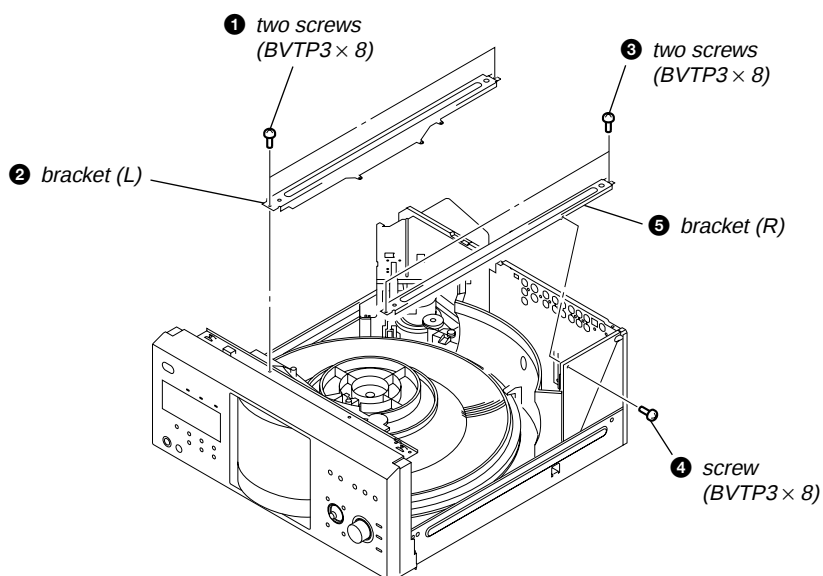
3-3. MB BOARD



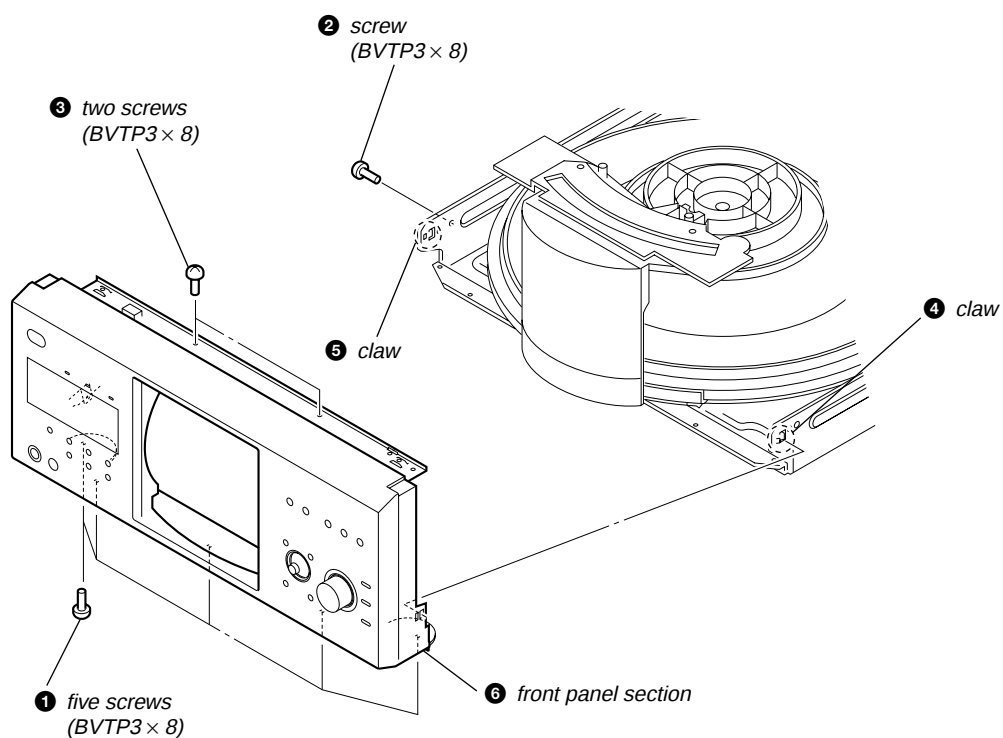
3-4. AV BOARD



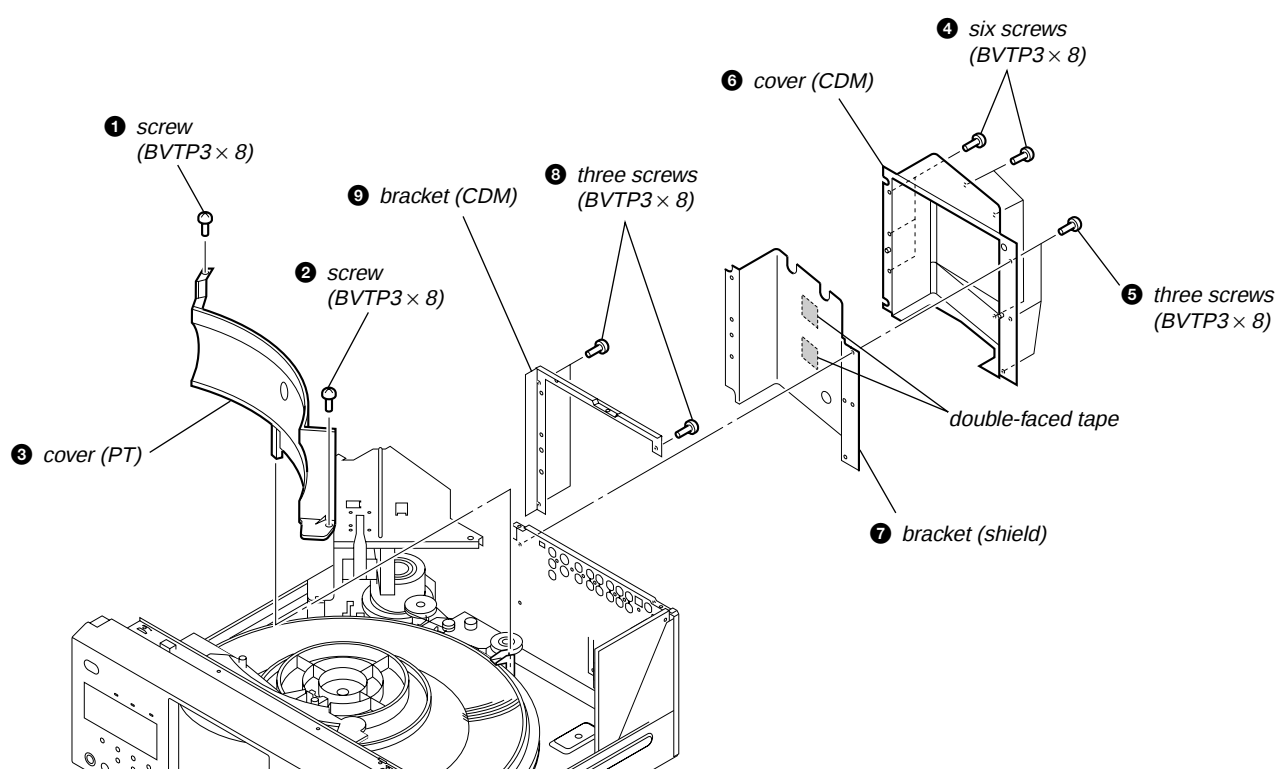
3-5. BRACKET (L)/(R)



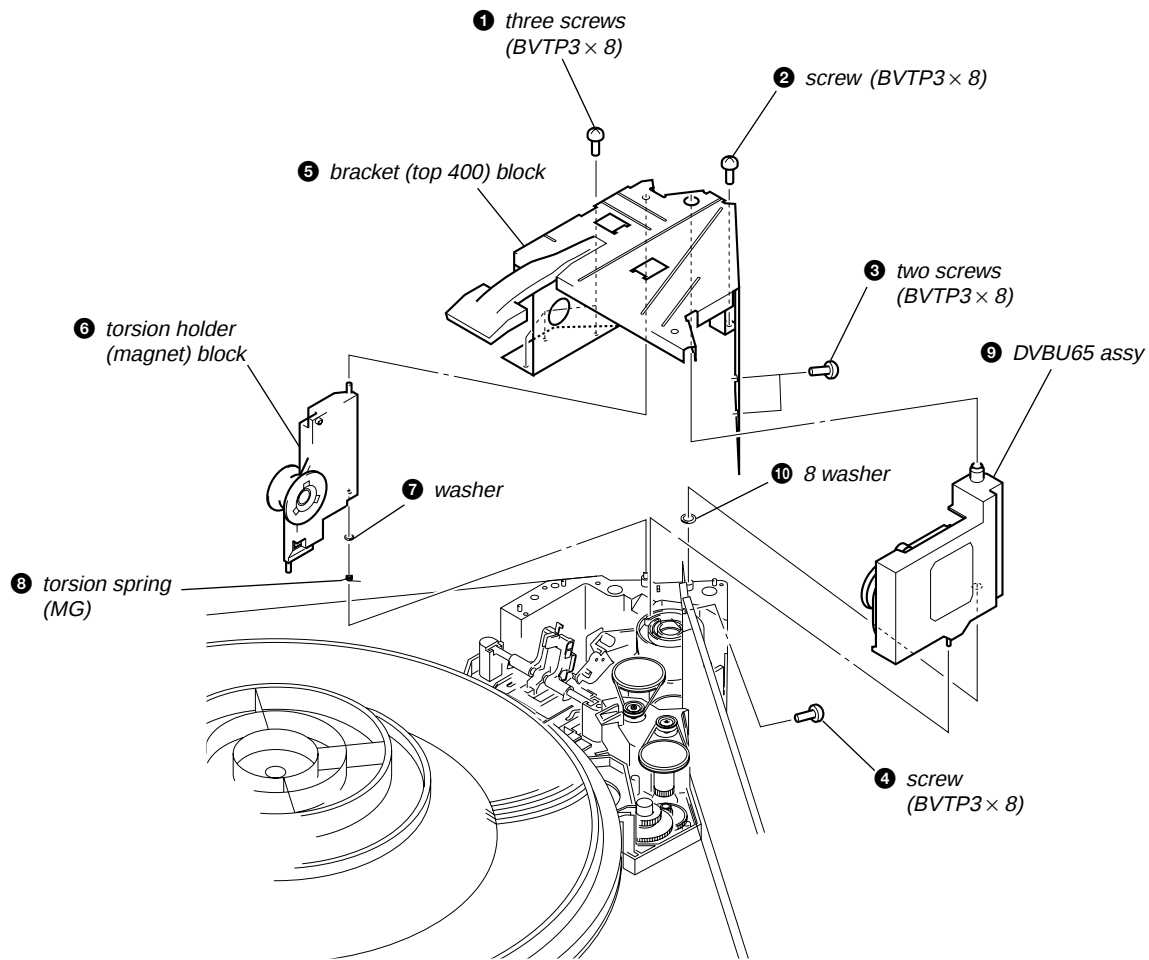
3-6. FRONT PANEL SECTION



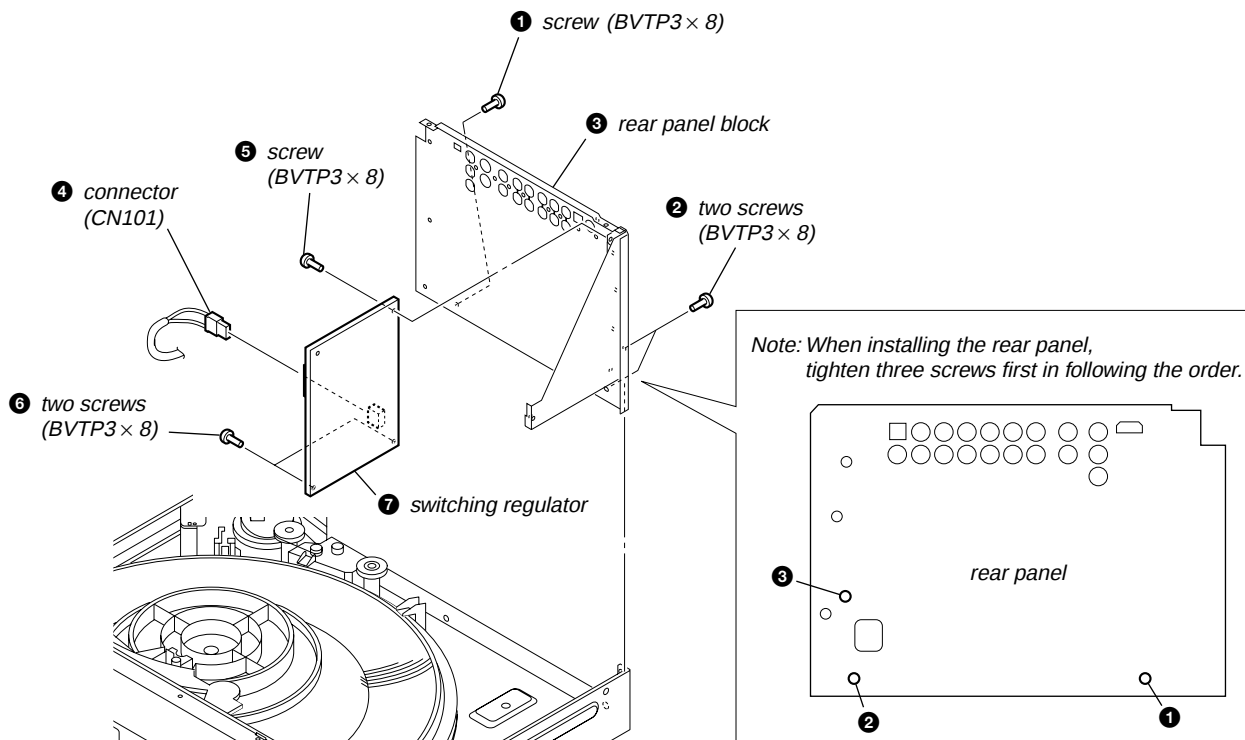
3-7. COVER (PT)/(CDM)



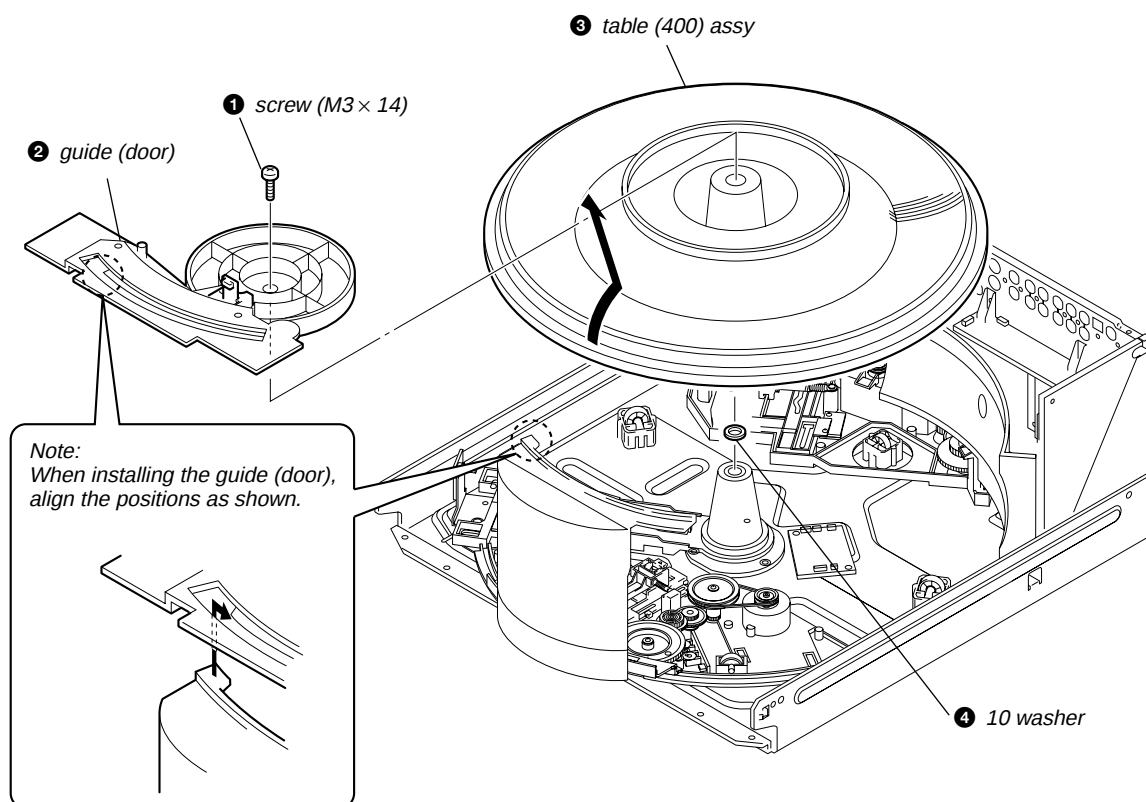
3-8. DVBU65 ASSY



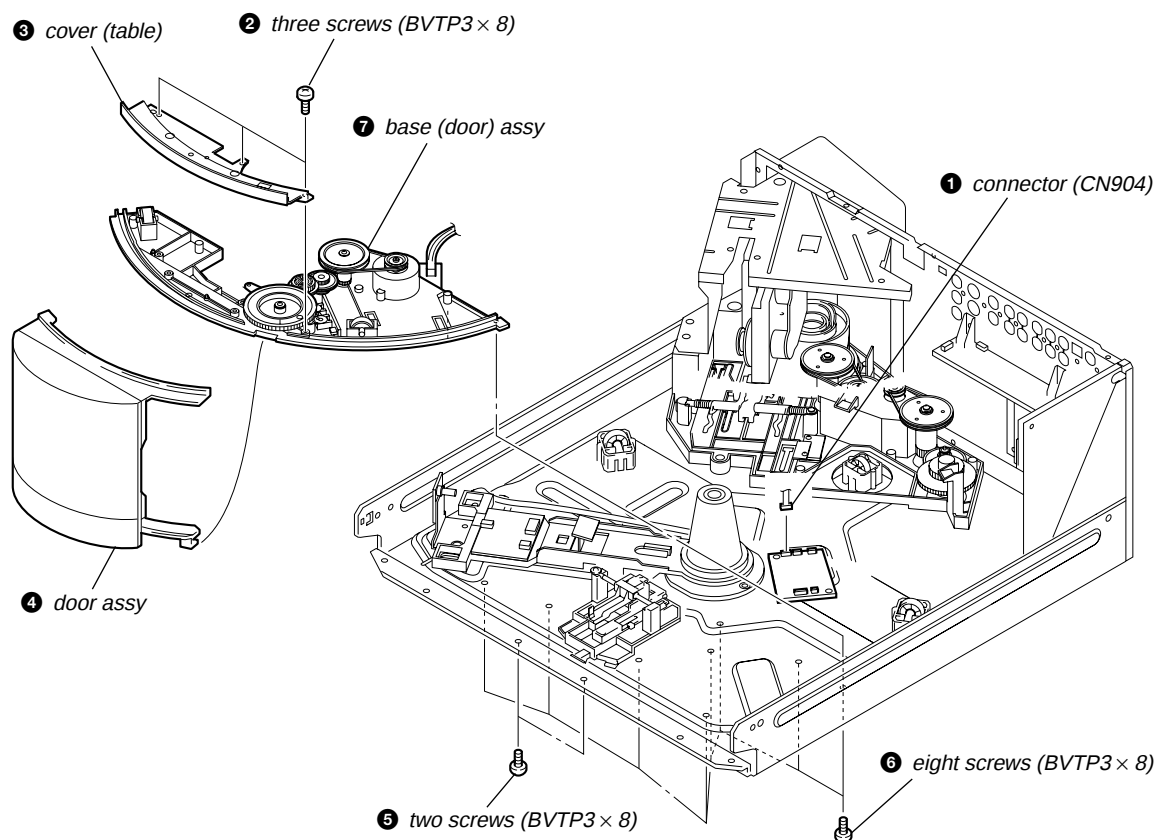
3-9. SWITCHING REGULATOR



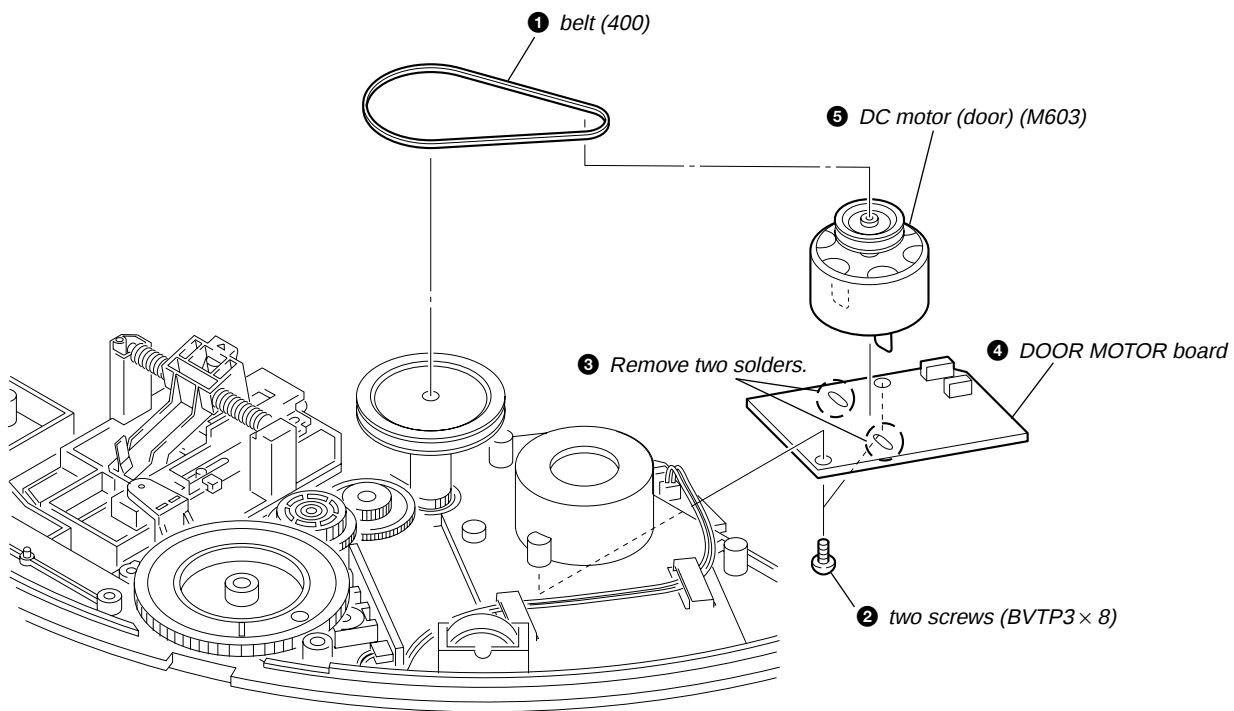
3-10. TABLE (400) ASSY



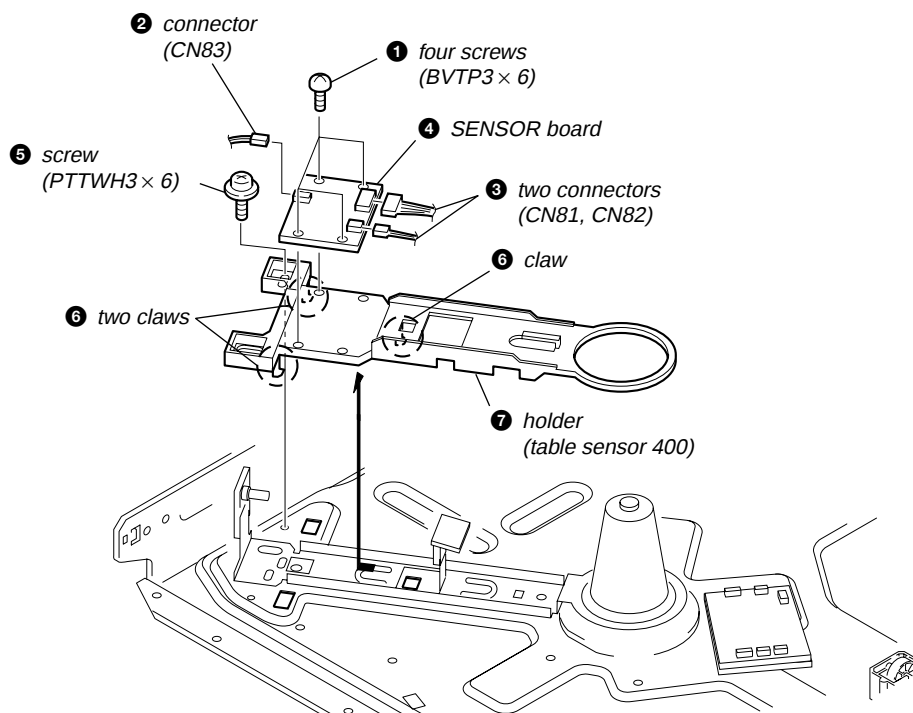
3-11. DOOR ASSY, BASE (DOOR) ASSY



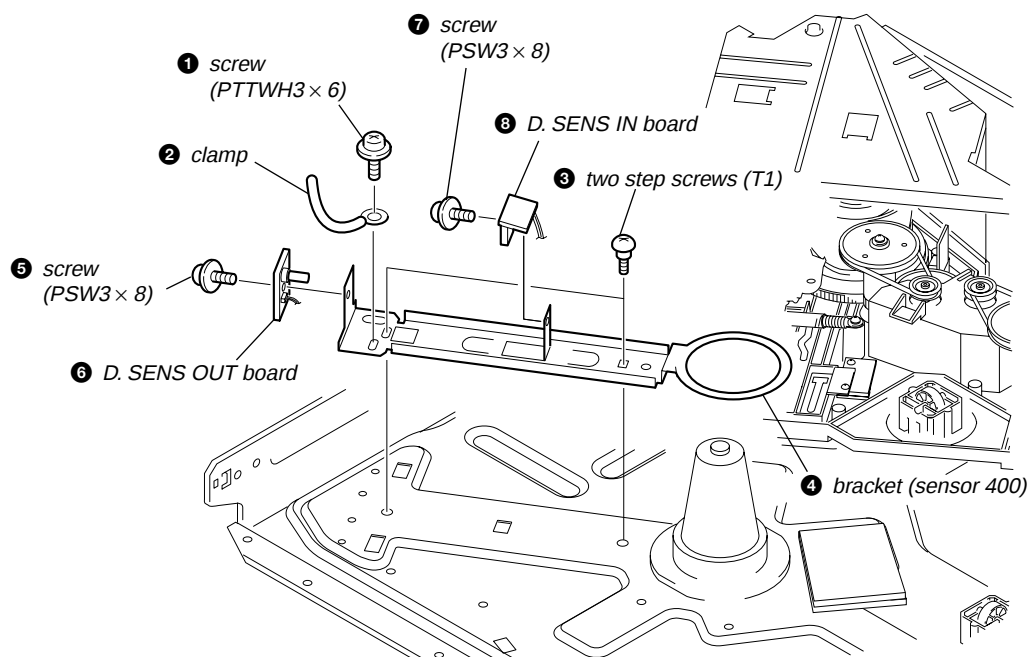
3-12. DC MOTOR (DOOR) (M603)



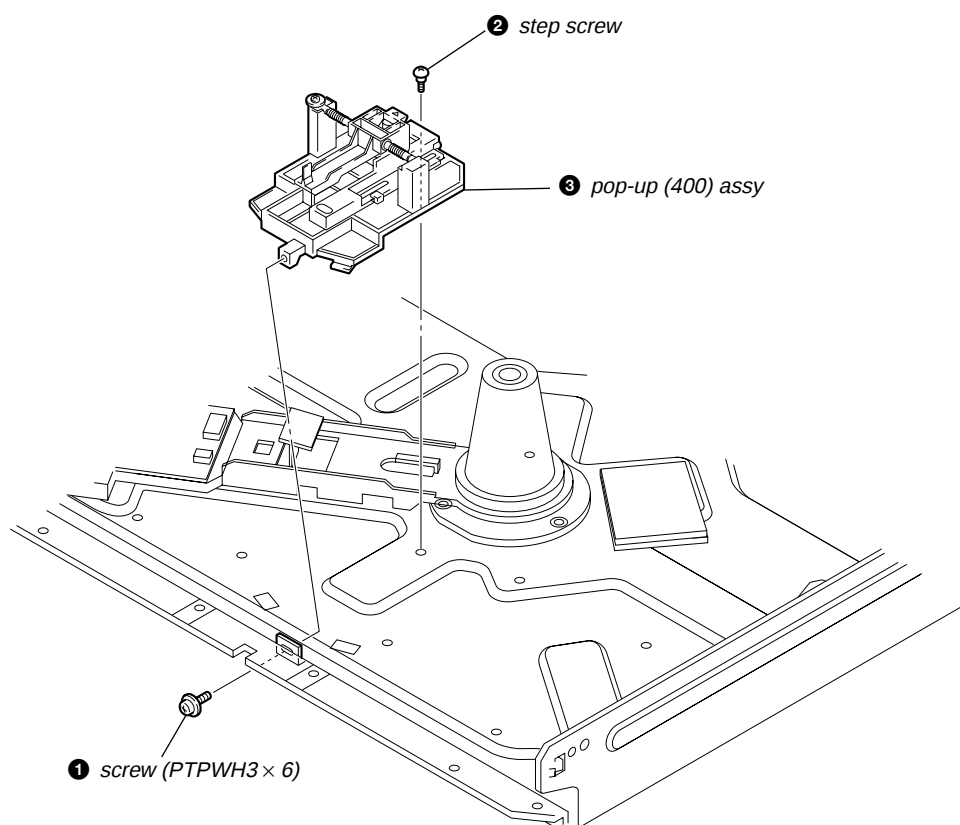
3-13. HOLDER (TABLE SENSOR 400)



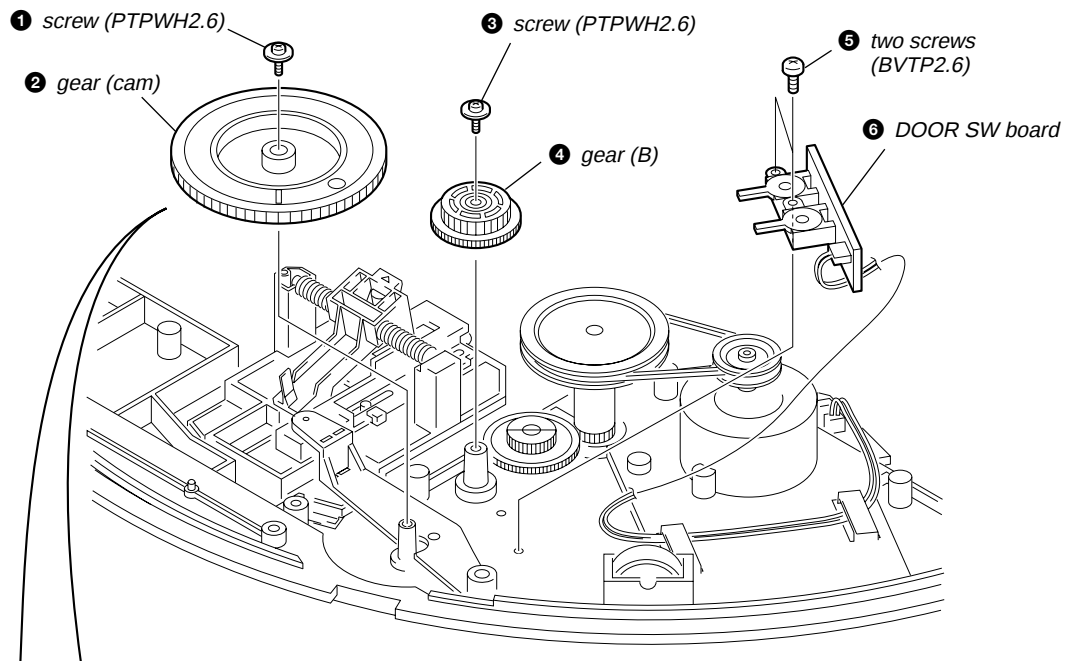
3-14. D. SENS OUT BOARD, D. SENS IN BOARD



3-15. POP-UP (400) ASSY

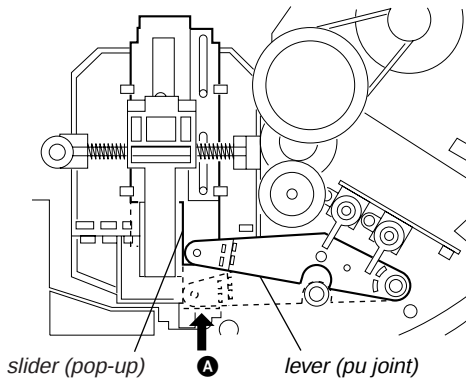


3-16. DOOR SW BOARD

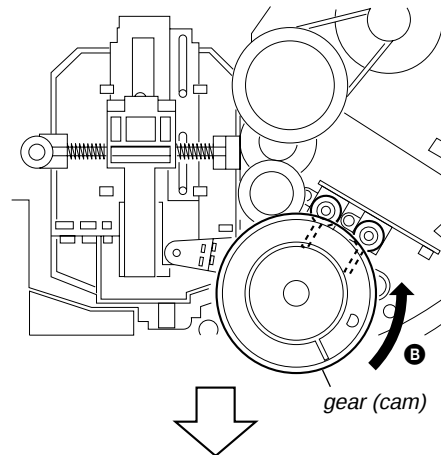


Precaution during the gear (cam) installation

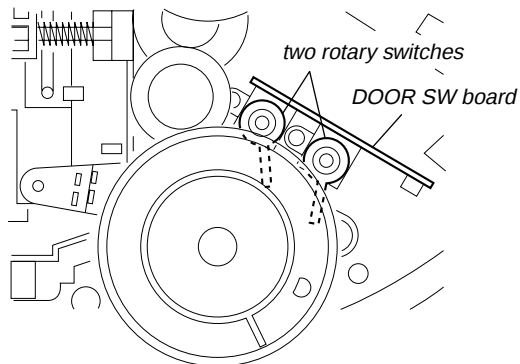
- 1 Move the slider (pop-up) and the lever (pu joint) fully in the direction of the arrow **A**.



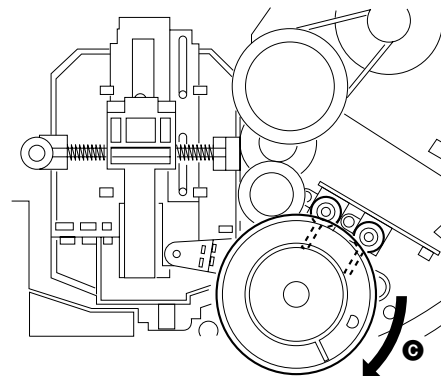
- 2 Install the gear (cam) in the direction shown in the illustration and rotate it fully in the direction of the arrow **B**.



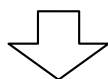
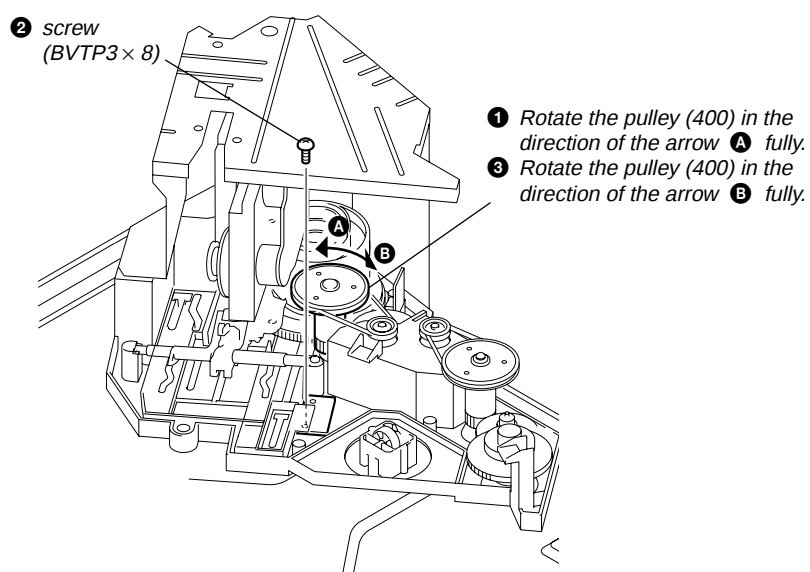
(The levers of the two rotary switches on the DOOR SW board are shown in the illustration below.)



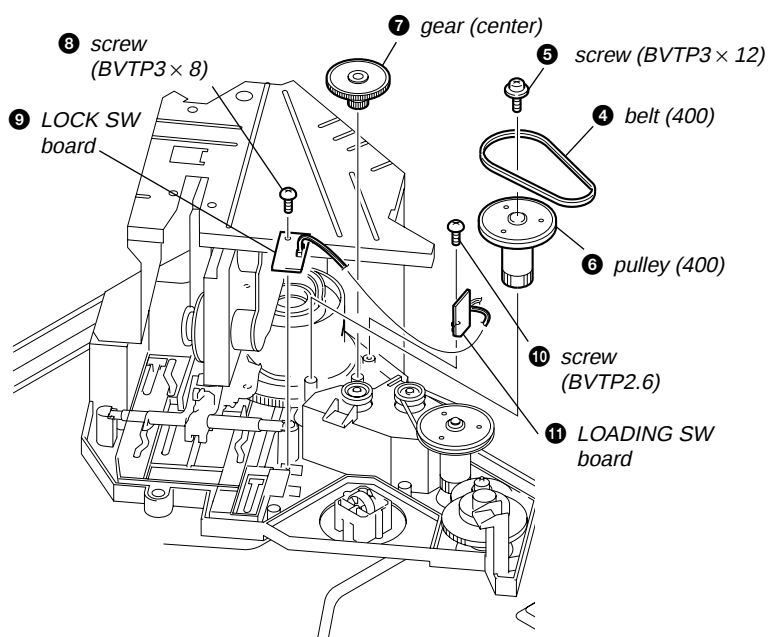
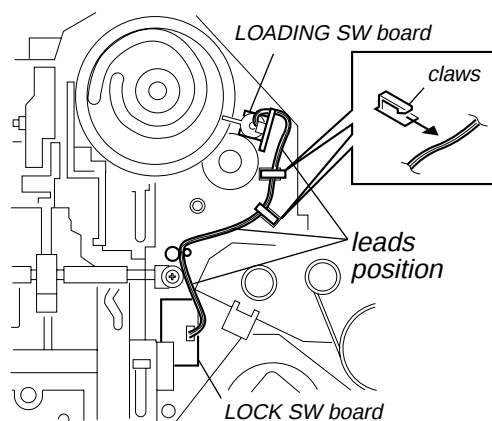
- 3 When the gear (cam) happens to go too deep, return it to the original position in the direction of the arrow **C**.



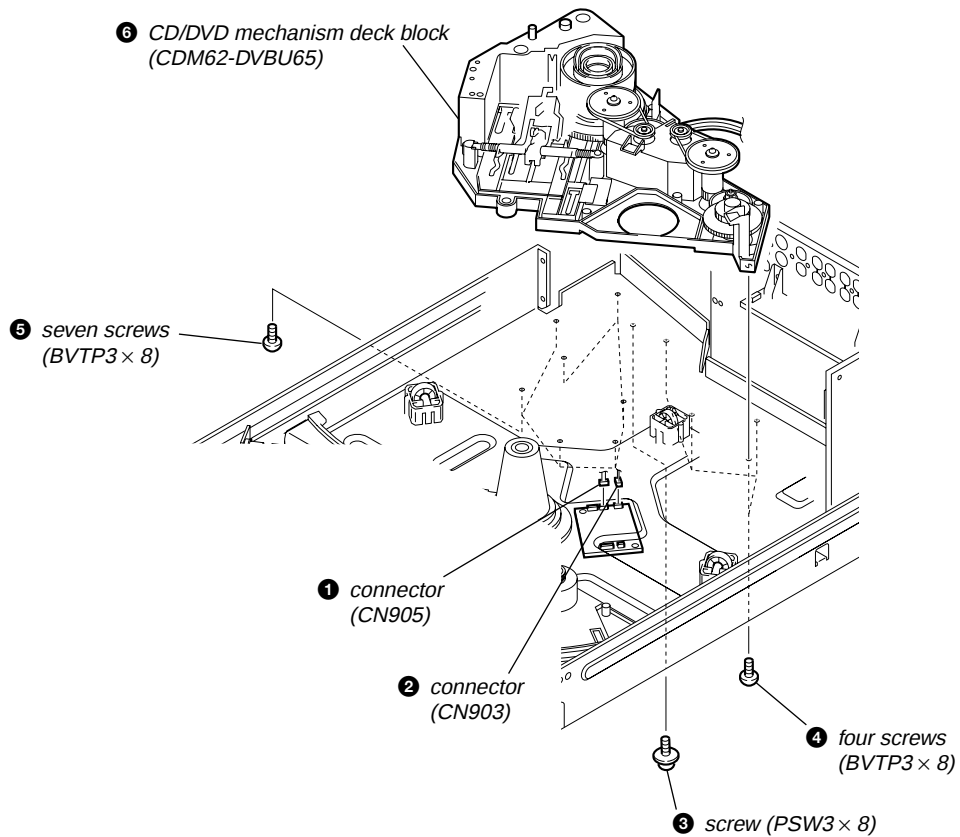
3-17. LOCK SW BOARD, LOADING SW BOARD

**Note for installation**

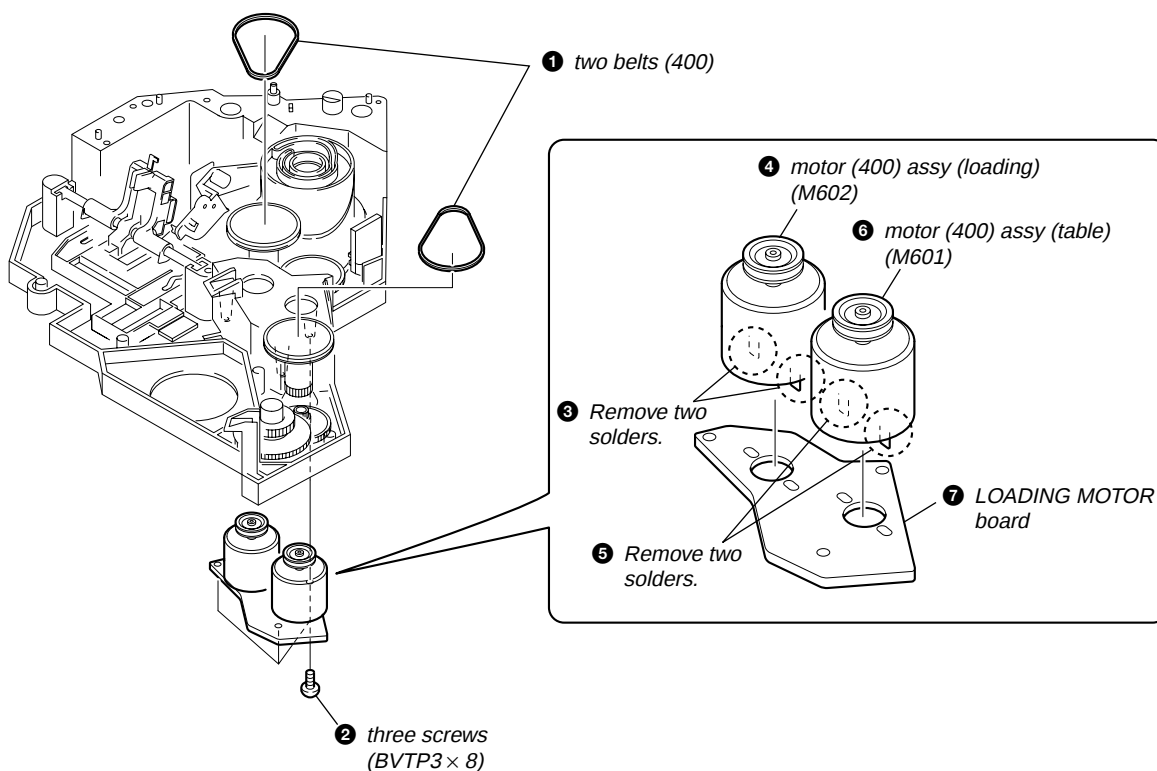
When installing the
LOADING SW board and
LOCK SW boards,
align the leads position as shown.



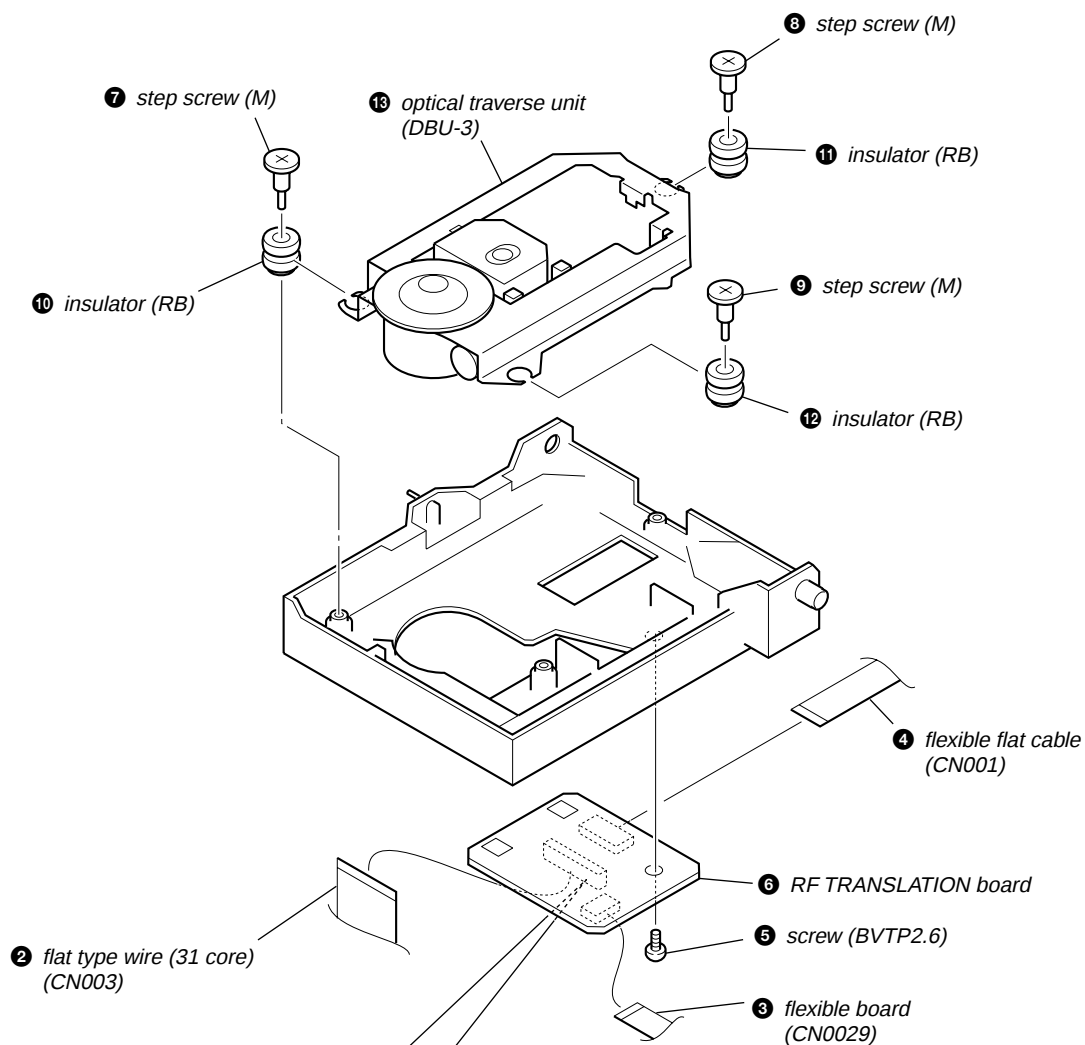
3-18. CD/DVD MECHANISM DECK BLOCK (CDM62-DVBU65)



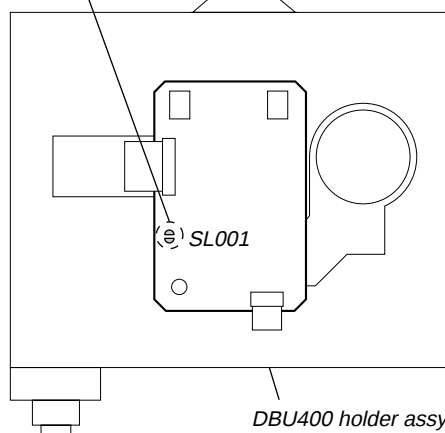
3-19. MOTOR (400) ASSY (LOADING) (M602)/(TABLE) (M601), LOADING MOTOR BOARD



3-20. OPTICAL TRAVERSE UNIT (DBU-3)



- ① Make solder land two points short on RF TRANSLATION board for prevent damage by static electricity.



*Note: After assembling the pick-up, remove the solder two points on RF TRANSLATION board.
If the assembly and disassembly are not done incorrect sequence, the pick-up may be damaged.*

SECTION 4

TEST MODE

DVD SECTION

GENERAL DESCRIPTION

The Test Mode allows you to make diagnosis and adjustment easily using the remote commander and monitor TV. The instructions, diagnostic results, etc. are given on the on-screen display (OSD).

STARTING TEST MODE

Press the **TOP MENU**, **CLEAR**, **I/O** keys on the remote commander in this order with standby status, and the Test Mode starts, then "DIAG START" will be displayed on the fluorescent display tube and the menu shown below will be displayed on the TV screen. At the bottom of menu screen, the model name and revision number are displayed. Last Off at the lower right of screen indicates the information code concerning the last power off. To execute each function, select the desired menu and press its number on the remote commander. To exit from the Test Mode, press the **I/O** key.

```

Test Mode Menu

0. B/E Diagnosis
1. Drive Auto Adjustment
2. Drive Manual Operation
3. Mecha Aging
4. Emergency History
5. Version Information
6. Video Level Adjustment
Exit: Power Key

Model :DVP-CX995V
Revision:x.xxx

```

OPERATING THE SUB MENU

0. B/E Diagnosis

The same contents as board detail check by serial interface can be checked from the remote commander. On the Test Mode Menu screen, press **0** key on the remote commander, and the following check menu will be displayed.

```

### BackEnd Diagnosis ###
Check Menu
0 . Quit
1 . All
2 . Version
3 . Peripheral
4 . Servo
5 . Video
6 . Audio

Model :DVP-CX995V
Revision:x.xxx

```

0-0. Quit

Quit the Syscon Diagnosis and return to the Test Mode Menu.

0-1. All (All items continuous check)

This menu checks all diagnostic items continuously. Normally, all items are checked successively one after another automatically unless an error is found, but at a certain item that requires judgment through a visual check to the result, the following screen is displayed for the key entry.

• Example display

```

### BackEnd Diagnosis ###

2. Version

2-0. Quit
2-1. ALL
2-2. Revision:x.xxx

2-5. Region:x
Press NEXT Key to Continue

```

Following the message, press **▶▶** key to go to the next item.

To quit the diagnosis and return to the Check Menu screen, press **■** or **ENTER** key. If an error occurred, the diagnosis is suspended.

Press **◀◀** key to repeat the same item where an error occurred, or **▶▶** key to continue the check from the item next to faulty item.

0-2. Version

(2-2) Revision

ROM revision number is displayed.

Error: Not detected.

The revision number defined in the source file is displayed with four digits.

(2-4) Model Type

Model code is displayed.

Error: Not detected.

The model code read from the EEPROM is displayed with 2-digit hexadecimal number.

(2-5) Region

Region code is displayed.

Error: Not detected.

The region code determined from the model code is displayed.

0-3. Peripheral

- (3-2) Flash Rom
Data delete → write → read, and accord check
Error 32: Delete error
Error 33: Write error
Error 34: Read data discord
Error may occur due to defect of access with the CPU (MB board IC205).
- (3-3) SA-CD Check
Data write → read, and accord check
Error 36: Write/read data discord
Check for SA-CD circuit (MB board IC401 and around circuit).
- (3-4) Venc Check
Register write → read, and accord check
Error 37: Write/read data discord
Error may occur due to defect of access with the CPU (MB board IC205).
- (3-7) PROV Check
Data write → read, and accord check
Error 39: Write/read data discord
External RAM check for I/P converter (AV board IC401) too.
- (3-8) HDMI Check
Register write → read, and accord check
Error 43: Write/read data discord
Error may occur due to defect of access with the HDMI transmitter (AV board IC600).

0-4. Servo

- (4-2) Servo (F/E) Check
Data write → read, and accord check
Error 41: Read data discord
0x9249, 0x2942 and 0x4294 are written to the RAM address 0x602 of the DVD interface (front-end) (MB board IC104) and then read for checking.

0-5. Video

- (5-2) Interlace
Error: Not detected.
The command is transferred to the video D/A converter (AV board IC500), and change the video signal to interlace.
- (5-3) Progressive
AVD color bar command write → Video (Composite, Y/C) OUT
Error: Not detected.
The command is transferred to the video D/A converter (AV board IC500), and change the video signal to progressive.
- (5-4) Color Bar
Error: Not detected.
The command is transferred to the video D/A converter (AV board IC500), and the color bar signals are output from video terminals.

0-6. Audio

Not used.

1. Drive Auto Adjustment**DVD reference disc:**

Single Layer
TDV-520CS0 (J-2501-236-A) (NTSC)
HLX-503 (J-6090-069-A) (NTSC)
HLX-504 (J-6090-088-A) (NTSC)

Dual Layer
TDV-540C (J-2501-235-A) (NTSC, Opposite)
HLX-501 (J-6090-071-A) (NTSC)
HLX-505 (J-6090-089-A) (NTSC)

CD reference disc:

LUV-P01 (4-999-032-01)
YEDS-18 (3-702-101-01)
PATD-012 (4-225-203-01)

On the Test Mode Menu screen, press [1] key on the remote commander, and the drive auto adjustment menu will be displayed.

```

## Drive Auto Adjustment ##

          Adjustment Menu

0. ALL (DL:Parallel)
1. DVD-SL
2. CD
3. DVD-DL (Parallel)

4. ALL (DL:Opposite)
5. DVD-DL (Opposite)
9. CLEAR DATA

                                Exit: RETURN

```

Normally, [0] or [4] is selected to adjust DVD (single layer), CD, and DVD (dual layer) in this order. But, individual items can be adjusted for the case where adjustment is suspended due to an error. In this mode, the adjustment can be made easily through the operation following the message displayed on the screen. Which disc is currently adjusted is displayed on the fluorescent display tube.

1-0. ALL (DL: Parallel)

Select [0] and press the [ENTER] key. Then, [1] DVD-SL disc, [2] CD disc, and [3] DVD-DL (Parallel) disc are adjusted in this order. Because the changer model can accept multiple discs in advance of adjustment, adjustments can be continued by exchanging discs automatically whenever an adjustment is completed following the instruction on screen. You can exit the adjustment by pressing the [■] button. In adjusting each disc, the mirror time is measured to check the disc type. In the auto adjustment, whether the disc type is correct is not checked unlike conventional models, and accordingly, take care not to insert a different type of disc.

Three kinds of discs can be set in advance. In this case, set discs in order to the displayed number with following the message. Every time after adjusting a disc, the disc is replaced and adjustment is continued automatically.

Set Disc

Disc slot number 1: DVD-SL (TDV-520CS0 or HLX-503 or HLX-504)

Disc slot number 2: CD (LUV-P01 or YEDS-18 or PATD-012)

Disc slot number 3: DVD-DL (TDV-540C or HLX-501 or HLX-505)

1-1. DVD Single Layer Disc

Select [1], insert DVD single layer disc, and press [ENTER] key, and the adjustment will be made through the following steps, then adjusted values will be written to the flash memory. The disc slot No. 1 is used in the changer type model. If there is no disc on the disc slot No. 1, the tray will be open to wait for closing. If there is a disc on the table, the adjustment starts immediately. If you put a disc prior to adjustment, confirm that the SL disc is set on the disc slot 1. Also, when the adjustment is completed, the result of the each setting value is displayed as follows.

DVD Single Layer Disc Adjustment Steps

1. Sled Reset
2. Set Disc Type SL
3. Laser Diode (DVD) ON
4. Focus Error Check
5. Focus ON
6. Spindle Start
7. Tracking Error Level Adjust
8. Tracking Error Offset Adjust
9. Tracking ON
10. RF Level Adjustment
11. Spindle Calibration
12. Tracking Off
13. Tracking Error Level Adjust 2nd
14. Tracking Error Offset Adjust 2nd
15. Tracking ON
16. Auto Focus Gain Adjust L0
17. Auto Tracking Gain Adjust L0
18. Sled ON
19. CLV ON
20. Auto Focus Balance Adjust L0
21. Auto RFEQ Boost Adjust L0
22. Jitter measure
23. Search Check
24. All Servo Off

Result Display

```
Result
disc type : SL

An.Off.AB xx xx  TE levDVD xx
An.Off.CD xx xx  TE levCD  --
An.Off.EF -- --  TE Offset xx
An.G.Main xx     FCS Gain  xx
An.G.Side --     TRK Gain  xx
RF level  xx     FCS Bal.  -- xx
FE S L0,1 xx --  REFQ      -- xx
VTS2          xx  Jitter    xx
Exit:RETURN
```

1-2. CD Disc

Select [2], insert CD disc, and press [ENTER] key, and the adjustment will be made through the following steps, then adjusted values will be written to the flash memory. The disc slot No. 2 is used in the changer type model. If there is no disc on the disc slot No. 2, the tray will be open to wait for closing. If there is a disc on the table, the adjustment starts immediately. If you put a disc prior to adjustment, confirm that the CD is set on the disc slot 2. Also, when the adjustment is completed, the result of the each setting value is displayed as follows.

CD Adjustment Steps

1. Sled Reset
2. Set Disc Type CD
3. Laser Diode (CD) ON
4. Focus Error Check
5. Focus ON
6. Spindle Start
7. Tracking Error Level Adjust
8. Tracking Error Offset Adjust
9. Tracking ON
10. RF Level Adjustment
11. Spindle Calibration
12. Auto Focus Gain Adjust
13. Auto Tracking Gain Adjust
14. Sled ON
15. CLV ON
16. Auto Focus Balance Adjust
17. Auto RFEQ Boost Adjust
18. Jitter measure
19. Search Check
20. All Servo Off

Result Display

```
Result
disc type : CD

An.Off.AB xx xx  TE levDVD --
An.Off.CD xx xx  TE levCD  xx
An.Off.EF xx xx  TE Offset xx
An.G.Main xx     FCS Gain  xx
An.G.Side xx     TRK Gain  xx
RF level  xx     FCS Bal.  -- xx
FE S L0,1 xx --  REFQ      -- xx
VTS2          --  Jitter    xx
Exit:RETURN
```

1-3. DVD Dual Layer Disc (Parallel)

Select [3], insert DVD dual layer disc, and press [ENTER] key, and the adjustment will be made through the following steps, then adjusted values will be written to the flash memory. The disc slot No. 3 is used in the changer type model. If there is no disc on the disc slot No. 3, the tray will be open to wait for closing. If there is a disc on the table, the adjustment starts immediately. If you put a disc prior to adjustment, confirm that the DL disc is set on the disc slot 3. Also, when the adjustment is completed, the result of the each setting value is displayed as follows.

DVD Dual Layer Disc Adjustment Steps

1. Sled Reset
2. Set Disc Type DL
3. Laser Diode (DVD) ON
4. Focus Error Check
5. Focus ON
6. Spindle Start
7. Tracking Error Level Adjust
8. Tracking Error Offset Adjust
9. Tracking ON
10. RF Level Adjustment
11. Spindle Calibration
12. Tracking Off
13. Tracking Error Level Adjust 2nd
14. Tracking Error Offset Adjust 2nd
15. Tracking ON
16. Auto Focus Gain Adjust L0
17. Auto Tracking Gain Adjust L0
18. Sled ON
19. CLV ON

20. Auto Focus Balance Adjust L0
21. Auto RFEQ Boost Adjust L0
22. Jitter measure
23. Search Check
24. Focus Jump (L0 → L1)
25. Tracking Off
26. Tracking Error Level Adjust
27. Tracking Error Offset Adjust
28. Tracking ON
29. Auto Focus Gain Adjust L1
30. Auto Tracking Gain Adjust L1
31. Sled ON
32. CLV ON
33. Auto Focus Balance Adjust L1
34. Auto RFEQ Boost Adjust L1
35. Search Check
36. All Servo Off

Result Display

```

Result

disc type : DL L0

An.Off.AB xx xx  TE levDVD xx
An.Off.CD xx xx  TE levCD  --
An.Off.EF -- --  TE Offset xx
An.G.Main xx     FCS Gain  xx
An.G.Side --     TRK Gain  xx
RF level  xx     FCS Bal.  -- xx
FE S L0,1 xx --  REFQ      -- xx
VTS2      --     Jitter    xx
1:L1 Page                               Exit:RETURN

```

```

Result

disc type : DL L1

An.Off.AB -- --  TE levDVD xx
An.Off.CD -- --  TE levCD  --
An.Off.EF -- --  TE Offset xx
An.G.Main xx     FCS Gain  xx
An.G.Side --     TRK Gain  xx
RF level  xx     FCS Bal.  -- xx
FE S L0,1 -- xx  REFQ      -- xx
VTS2      --     Jitter    --
0:L0 Page                               Exit:RETURN

```

1-4. ALL (DL: Opposite)

Select [4] and press the [ENTER] key. Then, [1] DVD-SL disc, [2] CD disc, and [5] DVD-DL (Opposite) disc are adjusted in this order. Because the changer model can accept multiple discs in advance of adjustment, adjustments can be continued by exchanging discs automatically whenever an adjustment is completed following the instruction on screen. You can exit the adjustment by pressing the [■] button. In adjusting each disc, the mirror time is measured to check the disc type. In the auto adjustment, whether the disc type is correct is not checked unlike conventional models, and accordingly, take care not to insert a different type of disc.

Three kinds of discs can be set in advance. In this case, set discs in order to the displayed number with following the message. Every time after adjusting a disc, the disc is replaced and adjustment is continued automatically.

Set Disc

Disc slot number 1: DVD-SL (TDV-520CS0 or HLX-503 or HLX-504)

Disc slot number 2: CD (LUV-P01 or YEDS-18 or PATD-012)

Disc slot number 3: DVD-DL (TDV-540C only)

1-5. DVD Dual Layer Disc (Opposite)

Note: Make sure, using the TDV-540C in this adjustment.

Select [5], insert DVD dual layer disc, and press [ENTER] key, and the adjustment will be made through the following steps, then adjusted values will be written to the flash memory. The disc slot No. 3 is used in the changer type model. If there is no disc on the disc slot No. 3, the tray will be open to wait for closing. If there is a disc on the table, the adjustment starts immediately. If you put a disc prior to adjustment, confirm that the DL disc is set on the disc slot 3.

DVD Dual Layer Disc Adjustment Steps

1. Sled Reset
2. Set Disc Type DL
3. Laser Diode (DVD) ON
4. Focus Error Check
5. Focus ON
6. Spindle Start
7. Tracking Error Level Adjust
8. Tracking Error Offset Adjust
9. Tracking ON
10. RF Level Adjustment
11. Spindle Calibration
12. Tracking Off
13. Tracking Error Level Adjust 2nd
14. Tracking Error Offset Adjust 2nd
15. Tracking ON
16. Auto Focus Gain Adjust L0
17. Auto Tracking Gain Adjust L0
18. Sled ON
19. CLV ON
20. Auto Focus Balance Adjust L0
21. Auto RFEQ Boost Adjust L0
22. Jitter measure
23. Search Check
24. Focus Jump (L0 → L1)
25. Tracking Off
26. Tracking Error Level Adjust
27. Tracking Error Offset Adjust
28. Tracking ON
29. Auto Focus Gain Adjust L1
30. Auto Tracking Gain Adjust L1
31. Sled ON
32. CLV ON
33. Auto Focus Balance Adjust L1
34. Auto RFEQ Boost Adjust L1
35. Search Check
36. All Servo Off

2. Drive Manual Operation

On the Test Mode Menu screen, select [2], and the manual operation menu will be displayed. For the manual operation, each servo on/off control and adjustment can be executed manually.

```
## Drive Manual Operation ##

2. Operation Commands
3. Servo Control
4. Track/Layer Jump

6. Memory Check
7. Changer Manual Move
8. Changer Mecha Check

Exit: RETURN

Model :DVP-CX995V
Revision:X.XXX
```

Basic operation (controllable from front panel or remote commander)

[I/O] : Power OFF
 [■] : Servo stop
 [▲] : Stop+Eject/Loading
 [↺] (RETURN) : Return to Operation Menu or Test Mode Menu
 [▶▶], [◀◀] : Transition between sub modes of menu
 [1] to [9], [0] : Selection of menu and items
 Cursor [↑]/[↓] : Increase/Decrease in manually adjusted value

2-2. Operation Commands

```
### Drive Manual Operation ###
2. Operation Commands

1. Search Disc (DVD Priority)
2. Search Disc (CD Priority)
3. PLAY
4. Pause
5. Stop

Exit: RETURN
```

[1] Serch Disc : DVD SDISC (F/E command) is performed by (DVD Priority) priority.
 [2] Serch Disc : CD SDISC (F/E command) is performed by (CD Priority) priority.
 [3] PLAY : Playback the current disc (DVD/CD).
 Start address is DVD = 0x030000 or CD = 00:00:00.
 [4] Pause : Pause
 [5] Stop : Stop

2-3. Servo Control

```
### Drive Manual Operation ###
3. Servo Control

1. LD DVD Off/On
2. LD CD Off/On
3. Focus Off/On
4. Spindle Off/On
5. Track Off/On
6. Sled Off/On

8. Focus Ramp

Exit: RETURN
```

On this screen, the servo on/off control necessary for replay is executed. Normally, turn on each servo from 1 sequentially and when CLVA is turned on, the usual trace mode becomes active. In the trace mode, DVD sector address or CD time code is displayed. This is not displayed where the spindle is not locked. The spindle could run overriding the control if the spindle system is faulty or RF is not present. In such a case, do not operate CLVA.

[1] LD DVD : Turn on/off the laser for DVD.
 [2] LD CD : Turn on/off the laser for CD.
 [3] Focus : Turn on/off the focus servo.
 [4] Spindle : Turn on/off the spindle servo.
 [5] Track : Turn on/off the tracking servo.
 [6] Sled : Turn on/off the sled servo.
 [8] Focus Ramp : In the laser diode on and focus servo off status, repeat the focus up/down.

2-4. Track/Layer Jump

```
4. Track/Layer Jump

1. 1Tj FWD
2. 1Tj REV
3. 200Tj FWD
4. 200Tj REV
5. 2kTj FWD
6. 2kTj REV
9. Lj (L1->L0) FWD
0. Lj (L0->L1) REV

Exit: RETURN
```

On this screen, track jump, etc. can be performed. Only for the DVD-DL, the focus jump and layer jump are displayed in the right field.

[1] 1Tj FWD : 1-track jump forward.
 [2] 1Tj REV : 1-track jump reverse.
 [3] 200Tj FWD : 200-track jump forward.
 [4] 200Tj REV : 200-track jump reverse.
 [5] 2kTj FWD : 2k-track jump forward.
 [6] 2kTj REV : 2k-track jump reverse.
 [9] Lj (L1->L0) : Layer jump.
 [0] Lj (L0->L1) : Layer jump.

2-6. Memory Check

The display image is shown below and three screens in total can be selected.

6. Memory Check Flash Data 1				
	CD	SL	L0	L1
An.Off A	xx	xx	xx	xx
An.Off B	xx	xx	xx	xx
An.Off C	xx	xx	xx	xx
An.Off D	xx	xx	xx	xx
An.Off E	xx	xx	xx	xx
An.Off F	xx	xx	xx	xx
An.G.Main	xx	xx	xx	xx
An.G.Side	xx	xx	xx	xx
RF level	xx	xx	xx	xx
FE S level	xx	xx	xx	xx
Down:NextPage		Exit:RETURN		

6. Memory Check Flash Data 2				
	CD	SL	L0	L1
TE Level	xx	xx	xx	xx
TE Offset	xx	xx	xx	xx
FCS Gain	xx	xx	xx	xx
TRK Gain	xx	xx	xx	xx
FCS Bal.1	xx	xx	xx	xx
FCS Bal.2	xx	xx	xx	xx
RFEQ 1	xx	xx	xx	xx
RFEQ 2	xx	xx	xx	xx
VTs2	xx	xx	xx	xx
Jitter	xx	xx	xx	xx
Up/Dn:Prev/NextPage		Exit:RETURN		

6. Memory Check Flash Data 3				
	CD	SL	L0	L1
VTS1	xx	xx	xx	xx
Up:PrevPage		Exit:RETURN		

2-7. Changer Manual Move

On this test mode screen, selecting [7] enables the machine operation such as disc loading. The following screen appears.

Display when [7] is selected in the Drive Manual Operation

## Changer Manual Move ##	
ENTER	: Mecha Initial
PLAY	: Loading In
STOP	: Loading Out
OP/CL	: Door Open/Close
UP	: Poper Up
DOWN	: Poper Down
jogFOR	: Table R StepTurn
jogPRV	: Table L StepTurn
DISP	: Sensor Status
RETURN : Exit	

[ENTER] : Performs initialization of mechanism deck.
Mecha Initial Because the mechanical initialization is performed when the machine enters the Drive Manual Operation mode, use this item when an error such as adjustment error occurs.

[PLAY] : Loads the disc from the chucking position of the table toward inside the mechanism deck.
Loading In When the Disc Load is selected, a series of operation starting from Loading – Chucking is performed.

[STOP] : Moves the disc from inside the mechanism deck to the table.
Loading Out When the Disc Unload is selected, a series of operation starting from Unloading – Chucking is performed.

[OP/CL] : Opens and closes the door.
Door Open/Close
( key)

[UP] : Pops up the lever.
Poper Up
( key)

[DOWN] : Pops down the lever.
Poper Down
( key)

[jog FOR]*1 : Moves the table to the right in units of the slit.
Table R step Turn The table number is incremented in the direction of positive (+) number.

[jog PRV]*1 : Moves the table to the left in units of the slit.
Table L step Turn The table number is decremented in the direction of negative (–) number.

[DISP] : When this item is selected, the 400CHG Sensor
Sensor Status Check appears on the screen.
(**[DISPLAY]** key)

*1) Turn the **[DISC/AMS]** knob on the main unit.

Display when the Sensor Status is selected in the Changer Manual Move.

## 400CHG Sensor Check ##	
Table 1/2/3/4	: X/X/X/X
Table lock	: X
Load in	: X
Load out	: X
Door open	: X
Door close	: X
Poper up	: X
Poper down	: X
Disc Sensor	: XXX
RETURN : Exit	

Table 1/2/3/4 : Indicates table sensor 1/2/3/4 status.
(0: Low, 1: High)

Table lock : Indicates each switch status.
Load in/out (0: Off, 1: On)
Door open/close
Poper up/down

Disc Sensor : Indicates sensitivity of the disc sensor.
The value is ranging from 0 to 3FF.

2-8. Changer Mecha Check

On this test mode screen, selecting [8] enables the table sensor and the disc sensor adjustment. The following screen appears.

Display when [8] is selected in the Drive Manual Operation

```
## Changer Mecha Check ##
ENTER : Mecha Initial
OP/CL  : Disc Load/UnLoad
jogFOR : Table R StepTurn
jogPRV : Table L StepTurn

PLAY   : Table Rotate
PAUSE  : Mecha Adjust
DISP   : Sensor Status

RETURN : Exit
```

All operations are the same as those of the Changer Manual Move except [OP/CL], [PLAY] and [PAUSE].

[OP/CL] : Loads the disc from the chucking position of Disc Load/UnLoad ( key) the table toward inside the mechanism deck or from inside the mechanism deck to the table.
When the Disc Load is selected a series of operation starting from Door Close – Table Rotate – Chucking is performed.
When the Disc UnLoad is selected a series of operation starting from Unchucking – Table Rotate – Door Open is performed.

[PLAY] : Enters the Disc Sensor Adjustment Mode.
Table Rotate The 400CHG Table Rotate appears on the screen.

[PAUSE] : Enters the Table Sensor Adjustment Mode.
Mecha Adjust The 400CHG Mecha Adjust appears on the screen.

Display when [PLAY] is selected in the Changer Mecha Check.

Note: Refer to page 32 for “TABLE SENSOR ADJUSTMENT”.

```
## 400CHG Table Rotate ##
RIGHT : Turn Right
LEFT  : Turn Left

Table 1/2/3/4 : X/X/X/X
Disc Sensor   : XXX

RETURN : Exit
```

[RIGHT]*1 : Rotates table counterclockwise.
Turn Right

[LEFT]*1 : Rotates table clockwise.
Turn Left

Table 1/2/3/4 : These items are the same as those of the Disc Sensor 400CHG Sensor Check.

*1) Turn the [DISC/AMS] knob on the main unit.

Display when [PAUSE] is selected in the Changer Mecha Check.

Note: Refer to page 32 for “POP UP MECHANISM ADJUSTMENT”.

```
## 400CHG Mecha Adjust ##
UP    : Load in
DOWN  : Load out
RIGHT : Pop Up
LEFT  : Pop Down

Table 1/2/3/4 : X/X/X/X

RETURN : Exit
```

[UP] : Loads the disc from the chucking position of the Load in table toward inside the mechanism deck during pressing the  key.

[DOWN] : Loads the disc from inside the mechanism deck to the Load out table during pressing the  key.

[RIGHT] : Pops up the lever during pressing the  key.
Pop Up

[LEFT] : Pops down the lever during pressing the  key.
Pop Down

Table 1/2/3/4 : This item is the same as that of the 400CHG Sensor Check.

3. Mecha Aging

The mechanism aging is not supported.

4. Emergency History

### EMG. History ###									
Laser Hours				CD	xxh	xxm			
				DVD	xxh	xxm			
01.00	00	00	00	00	00	00	00	00	00
	00	00	00	00	00	00	00	00	00
02.00	00	00	00	00	00	00	00	00	00
	00	00	00	00	00	00	00	00	00
Select : 1-9				Scroll : UP/DOWN					
(1: Last EMG.)				Exit : RETURN					

On the Test Mode Menu screen, selecting [4] displays the information such as servo emergency history. The history information from last “1” up to “10” can be scrolled with [↑] key or [↓] key. Also, specific information can be displayed by directly entering that number with the ten-key pad from [1] to [9]. The upper two lines display the laser ON total hours. Data below minutes are omitted.

Clearing History Information

- ① Clearing laser hours
Press [DISPLAY] and [CLEAR] keys in this order.
Both CD and DVD data are cleared.
- ② Clearing emergency history
Press [TOP MENU] and [CLEAR] keys in this order.
- ③ Initializing setup data
Press [MENU] and [CLEAR] keys in this order.
The data have been initialized when “Set Up Initialized” message is displayed.
The EMG. History display screen will be restored soon.

5. Version Information

```

### Version Information ###

IF con      Ver:x.xxx(xxxx)

B/E         Ver:xxx xxx

F/E         Ver:xx

            Model      :DVP-CX995V
            Region     :xxx(x)

Exit : RETURN

```

IF con : IC304 on the MB board
B/E : IC205 on the MB board
F/E : IC104 on the MB board

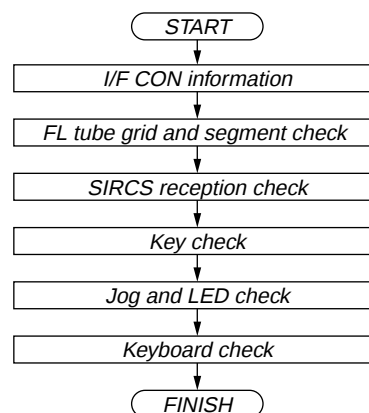
6. Video Level Adjustment

On the Test Mode Menu screen, selecting [6] displays color bars for video level adjustment. During display of color bars, OSD disappears but the menu screen will be restored if pressing the [RETURN] key.

DISPLAY SECTION

DISPLAY TEST MODE

Execute the Self Check Mode along the following flow.



1. Entering the Display Test Mode

The Display Test mode starts if either of the following conditions is satisfied.

Condition 1:

With the SELF_CHECK (pin ②) of the IF CON (IC304) on the MB board kept “low”, turn the power on. (Short the CL301)

Condition 2:

While pressing the [■] key on the set when the set is in standby state, press the [RETURN] → [DISPLAY] key on the remote commander and the mode transits to the Self Check mode.

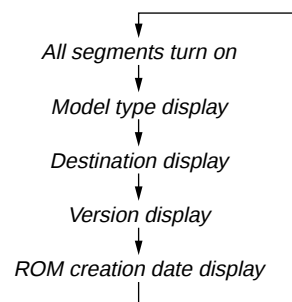
When the Self Check mode started, “TEST START” is displayed on the FL tube for 2 seconds and then the Self Check proceeds to the IF CON information display.

2. Releasing the Display Test Mode

To release the Self Check mode, disconnect the AC plug.

3. IF CON Information Display

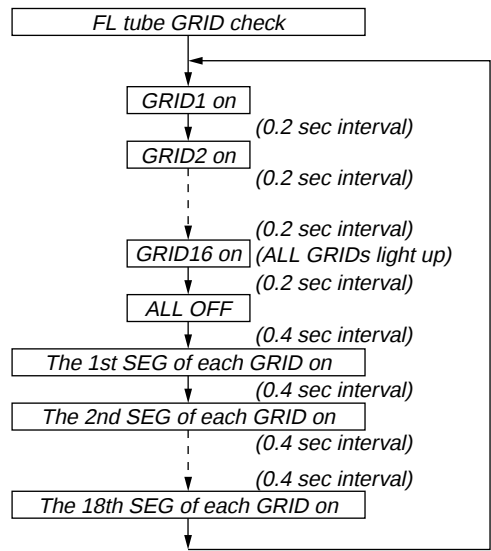
When enter this mode, it displays as follows.



If the [DISC/AMS] knob is pressed, the test proceeds to the following FL tube GRID and SEGMENT check.

4. FL Tube Grid and Segment Check

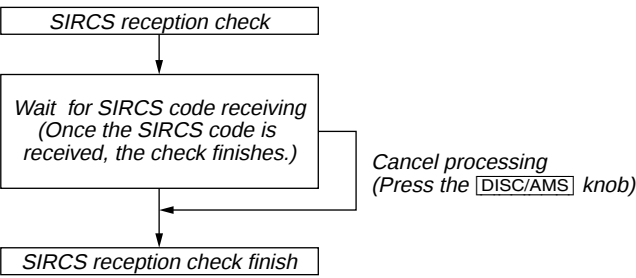
First, a grid lights up one after another, and when grid 16 lights up, all grids light up.
Next, all grids go off, and segments are displayed while changing the patterns.
A way of this display is repeated.
(The interval of grid lighting is 0.2 second, and that of segment lighting is 0.4 second.)



If the **[DISC/AMS]** knob is pressed, the test proceeds to the following SIRCS reception check.

5. SIRCS Reception Check

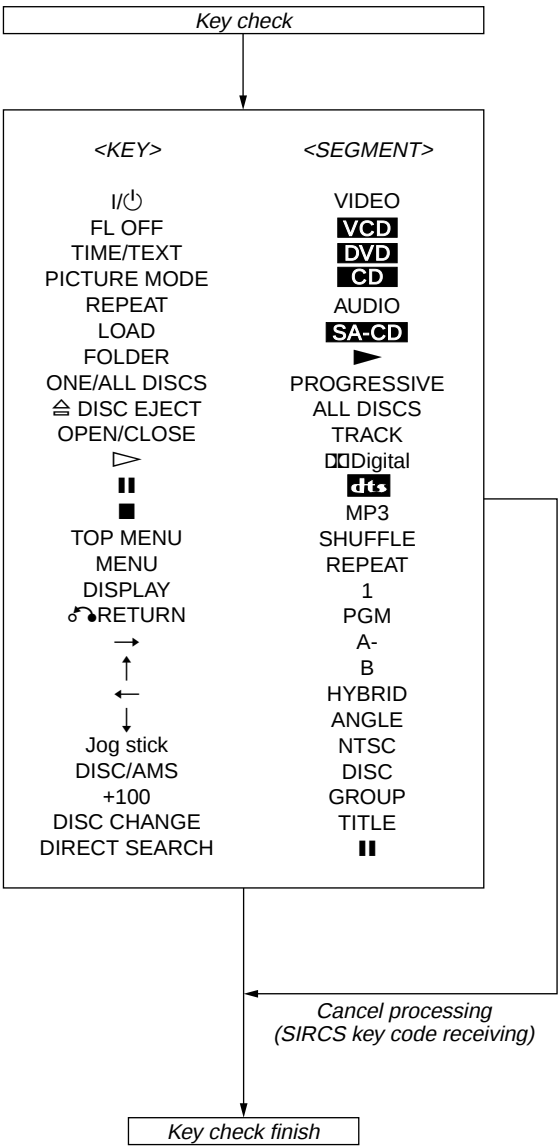
Upon start of the SIRCS reception check, “SIRCS CHECK” is displayed on the FL tube.
Once the SIRCS key code is received, the test proceeds to the following Key check.



If the **[DISC/AMS]** knob is pressed as a cancel processing of the SIRCS reception check, the test proceeds to the following Key check.

6. Key Check

After the SIRCS reception check finished, the Key check is executed.
Upon start of the Key check, “KEY CHECK” is displayed on the FL tube.
25 keys are checked as described below.
Each time a key is pressed, the specified segment lights up, and at one second after all keys were pressed, all of FL tube go off and the Key check finishes.



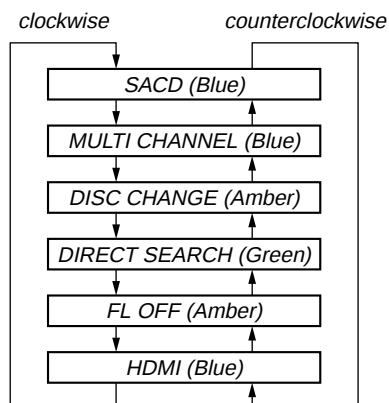
If the SIRCS key code is received as a cancel processing of the Key check, the test proceeds to the following Jog and LED check.

7. Jog and LED Check

After the Key check finished, the Jog and LED check is executed as follows.

Upon start of the Jog and LED check, "JOG AND LED" is displayed on the FL tube.

There are six LEDs. The order in which the LEDs light up when the [DISC/AMS] knob is rotated as described below.



If the [DISC/AMS] knob is pressed during the Jog and LED check, the Jog and LED check finishes and the test proceeds to the following KEYBOARD check.

8. Keyboard Check

After the Jog and LED check finished, the Keyboard check is executed.

Once a signal is received from the keyboard, the Keyboard check finishes.

The "KEYBOARD" is displayed on the FL tube until a signal is received from the keyboard.

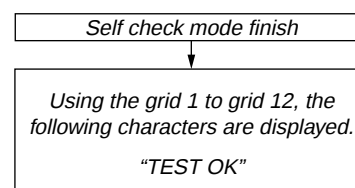
If the [DISC/AMS] knob is pressed during the Keyboard check, the Keyboard check finishes and the test proceeds to the following check.

When the Keyboard check finished, it displays result of Display Test mode. (See next item)

9. Display Test Mode Result Indication

After the Keyboard check finished, it displays result of Display Test mode.

At this time, even if a signal from a key on the set, remote commander, or keyboard is received, nothing changes.



At the SIRCS reception check, Key check, Jog and LED check, and Keyboard check, if you proceed to the next check without completing current check, the check name that has not completed yet is displayed instead of "TEST OK", as follows.

If SIRCS reception check has not completed (If JOG dial is pressed during SIRCS reception check)	"SIRCS NG"
If KEY check has not completed (If SIRCS key code is received during KEY check)	"KEY NG"
If JOG and LED check has not completed (If JOG dial is pressed without rotating JOG dial even once during JOG and LED check)	"JOG LED NG"
If KEYBOARD check has not completed (If JOG dial is pressed during a signal reception from keyboard)	"KEYBOARD NG"

Also, if two or more checks have not completed yet

All four checks are erroneous	"S KY J KB NG"
Three checks are erroneous	"S J KB NG" "S KY KB NG"
Two checks are erroneous	" KY KB NG" " KY J NG"

Each error is displayed at the fixed position of the FL tube (not left aligned), and the items that have completed are blank.

Note: The alphabets mentioned above denote the following checks.

S : SIRCS reception check
 KY : Key check
 J : Jog and LED check
 KB : Keyboard check
 NG : There are error items.

SECTION 5 MECHANICAL ADJUSTMENTS

POP UP MECHANISM ADJUSTMENT

1. Connect the AC plug of the set to AC consent, then the set enters standby mode.
2. Press the **[TOP MENU]**, **[CLEAR]** and **[1/0]** keys on the remote commander in this order, then the set enters the DVD Test Mode.
3. Select "2. Drive Manual Operation" by pressing the **[2]** key.
4. Select "8. Changer Mecha Check" by pressing the **[8]** key.
5. Press the **[ENTER]** key, then the CDM initializes.
6. Press the **[PAUSE]** key, then the table rotates to the mechanical adjustment position, the door opens and the table locks. (Fig. 1)
7. Keep pressing the **[→]** key to raise the pop up part.
8. Loosen the adjusting screw, move the screwdriver left and right until the lever (POP UP) does not touch the slit wall, and secure the screw. (Fig. 2)

The following keys have special functions in this mode.

- ⬆ key : Loading mechanism IN operation
- ⬇ key : Loading mechanism OUT operation
- ➡ key : Pop up part UP operation
- ⬅ key : Pop up part DOWN operation

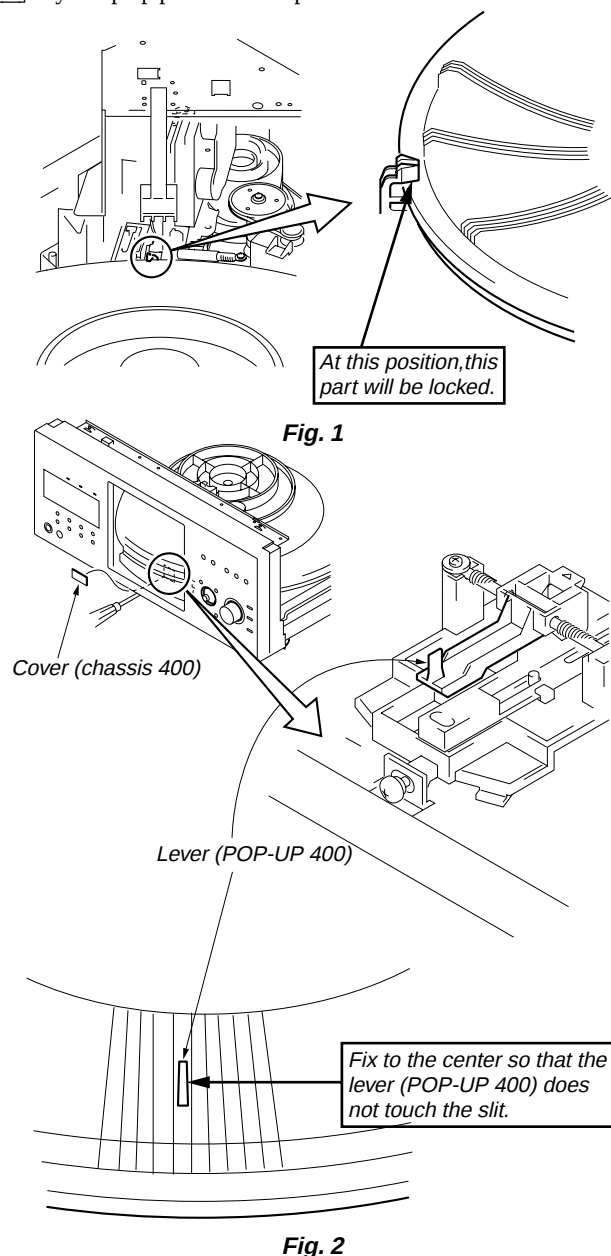
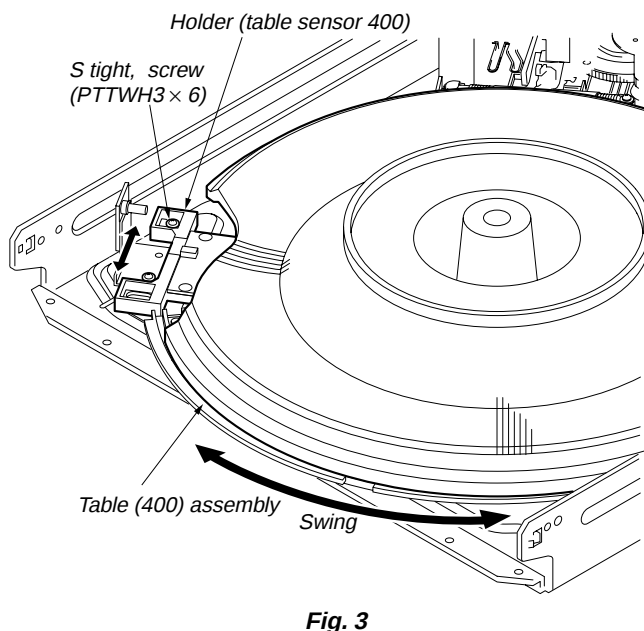


TABLE SENSOR ADJUSTMENT

After the Pop Up Mechanism Adjustment, perform this adjustment continuously.

1. Loosen the fixing screw. Moving the holder little by little, stop it at a boundary point where the PROGRESSIVE LED (blue) goes off and the SA-CD LED (white) lights up. If the holder is moved in reverse direction, stop the holder at a point where the SA-CD LED goes off and the PROGRESSIVE LED lights up.
2. Moving the table right and left with a hand after the screw is fixed, the table will move by the play of the table. If the LEDs light up alternately, the adjustment will be performed correctly. (Fig. 3)



SECTION 6

ELECTRICAL ADJUSTMENTS

Instruments required:

- 1) Color monitor TV
- 2) Oscilloscope 1 or 2 phenomena, band width over 100 MHz, with delay mode
- 3) Frequency counter (over 8 digits)
- 4) Digital voltmeter
- 5) Remote commander (RM-ASP001)
- 6) CD reference disc
LUV-P01 (4-999-032-01)
YEDS-18 (3-702-101-01)
PATD-012 (4-225-203-01)
- 7) DVD reference disc
TDV-520CS0 (J-2501-236-A) (single layer) (NTSC)
HLX-503 (J-6090-069-A) (single layer) (NTSC)
HLX-504 (J-6090-088-A) (single layer) (NTSC)
TDV-540C (J-2501-235-A) (dual layer) (NTSC, Opposite)
HLX-501 (J-6090-071-A) (dual layer) (NTSC)
HLX-505 (J-6090-089-A) (dual layer) (NTSC)
- 8) SA-CD reference disc
HLXA-509 (J-6090-090-A)
- 9) Extension Cable (J-2501-199-A)

6-1. OPTICAL TRAVERSE UNIT CHECK

In the case of quality judgement when the defect of the optical traverse unit like the skip etc. is thought, and in case of operation confirming when replacing optical traverse unit, select “ALL” of “1. DRIVE AUTO ADJUSTMENT” in the test mode (refer to page 23, 25), adjust DVD-SL (single layer), CD and DVD-DL (dual layer), and confirm whether the result of each setting value is the range of the following specification.

	DVD-SL	CD	DVD-DL	
			L0	L1
An.Off.A	20 to E0	20 to E0	20 to E0	—
An.Off.B	20 to E0	20 to E0	20 to E0	—
An.Off.C	20 to E0	20 to E0	20 to E0	—
An.Off.D	20 to E0	20 to E0	20 to E0	—
An.Off.E	—	20 to E0	—	—
An.Off.F	—	20 to E0	—	—
An.G.Main	0E to 1C	0E to 1A	1D to 28	1D to 28
An.G.Side	—	0C to 1C	—	—
RF level	70 to F0	70 to F0	60 to F0	60 to F0
FE S L0	74 to FF	74 to FF	54 to FF	—
FE S L1	—	—	—	54 to FF
VTS2	00 to 10	—	—	—
TE levDVD	28 to 48	—	28 to 48	28 to 48
TE levCD	—	34 to 60	—	—
TE Offset	D0 to FF 00 to 30	A0 to CC	20 to E0 00 to 30	20 to E0 00 to 30
FCS Gain	20 to 3F	18 to 38	20 to 48	20 to 48
TRK Gain	30 to 50	30 to 50	30 to 50	30 to 50
FCS Bal.1	—	—	—	—
FCS Bal.2	36 to 4F	36 to 4F	36 to 4F	36 to 4F
REFQ1	—	—	—	—
REFQ2	0C to 30	14 to 24	0C to 30	0C to 30
Jitter	07 to 14	07 to 0F	07 to 14	—

6-2. POWER SUPPLY CHECK

Mode: E-E

Instrument: Digital voltmeter

EVER +3.3 V Check	
Check point	JL381 on the AV board
Specification	3.3 ± 0.2 V
SW +4.5 V Check	
Check point	JL378 on the AV board
Specification	4.5 ± 0.2 V
SW +5 V Check	
Check point	JL382 on the AV board
Specification	5.0 ± 0.3 V
SW +12 V Check	
Check point	JL376 on the AV board
Specification	12.0 ± 1.0 V
EVER +12 V Check	
Check point	JL383 on the AV board
Specification	12.0 ± 1.0 V
SW -12 V Check	
Check point	JL373 on the AV board
Specification	-12.0 ± 1.0 V
EVER -12 V Check	
Check point	JL372 on the AV board
Specification	-12.0 ± 1.0 V

Checking method:

- 1) Confirm that each voltage satisfies the specification.

6-3. ADJUSTMENT OF VIDEO SYSTEM

6-3-1. Video Level Adjustment

<Purpose>

This adjustment is made to satisfy the NTSC standard, and if not adjusted correctly, the brightness will be too large or small.

Mode	Video level adjustment in test mode
Signal	Color bars
Check point	VIDEO LINE OUT connector (J103) (75 Ω terminated)
Instrument	Oscilloscope
Adjusting element	RV501
Specification	$1.0^{+0.04}_{-0.02}$ Vp-p

Adjusting method:

- 1) In the Test Mode Menu, select the “6. Video Level Adjustment” so that color bars are generated.
- 2) Adjust the RV501 to attain $1.0^{+0.04}_{-0.02}$ Vp-p.



Fig. 6-1

6-3-2. Progressive Video Output Level Adjustment

<Purpose>

This adjusts progressive video output level. If it is incorrect, correct brightness will not be attained when connected to, for instance, projector.

Mode	Video level adjustment in test mode
Signal	Color bars
Check point	COMPONENT VIDEO OUT (Y) connector (J102) (75 Ω terminated)
Instrument	Oscilloscope
Adjusting element	RV500
Specification	$1.0^{+0.04}_{-0.02}$ Vp-p

Adjusting method:

- 1) In the Test Mode Menu, select the “6. Video Level Adjustment” so that color bars are generated.
- 2) Adjust the RV500 to attain $1.0^{+0.04}_{-0.02}$ Vp-p.



Fig. 6-2

6-3-3. Checking S Video Output S-Y

<Purpose>

Check S-terminal video output. If it is incorrect, pictures will not be displayed correctly in spite of connection to the TV with a S-terminal cable.

Mode	Video level adjustment in test mode
Signal	Color bars
Check point	S VIDEO OUT (S-Y) connector (J101) (75 Ω terminated)
Instrument	Oscilloscope
Specification	1.0 ± 0.05 Vp-p

Checking method:

- 1) In the Test Mode Menu, select the “6. Video Level Adjustment” so that color bars are generated.
- 2) Confirm that the S-Y level is 1.0 ± 0.05 Vp-p.



Fig. 6-3

6-3-4. Checking S Video Output S-C

<Purpose>

This checks whether the S-C satisfies the NTSC standard. If it is not correct, the colors will be to dark or light.

Mode	Video level adjustment in test mode
Signal	Color bars
Check point	S VIDEO OUT (S-C) connector (J101) (75 Ω terminated)
Instrument	Oscilloscope
Specification	$A = 286 \pm 30$ mVp-p (NTSC)

Checking method:

- 1) In the Test Mode Menu, select the “6. Video Level Adjustment” so that color bars are generated.
- 2) Confirm that the S-C burst is “A”.



Fig. 6-4

6-3-5. Checking Component Video Output Y

<Purpose>

This checks component video output Y. If it is incorrect, correct brightness will not be attained when connected to, for instance, projector.

Mode	Video level adjustment in test mode
Signal	Color bars
Check point	COMPONENT VIDEO OUT (Y) connector (J102) (75 Ω terminated)
Instrument	Oscilloscope
Specification	1.0 ± 0.05 Vp-p

Checking method:

- 1) In the Test Mode Menu, select the “6. Video Level Adjustment” so that color bars are generated.
- 2) Confirm that the Y level is 1.0 ± 0.05 Vp-p.



Fig. 6-5

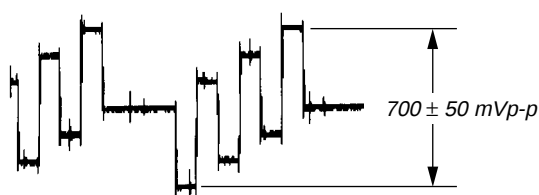
6-3-6. Checking Component Video Output B-Y**<Purpose>**

This checks component video output B-Y. If it is incorrect, correct colors will not be displayed when connected to, for instance, projector.

Mode	Video level adjustment in test mode
Signal	Color bars
Check point	COMPONENT VIDEO OUT (P _B /C _B) connector (J102) (75 Ω terminated)
Instrument	Oscilloscope
Specification	700 ± 50 mVp-p

Checking method:

- 1) In the Test Mode Menu, select the “6. Video Level Adjustment” so that color bars are generated.
- 2) Confirm that the B-Y level is 700 ± 50 mVp-p.

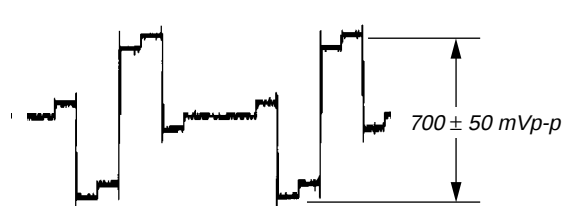
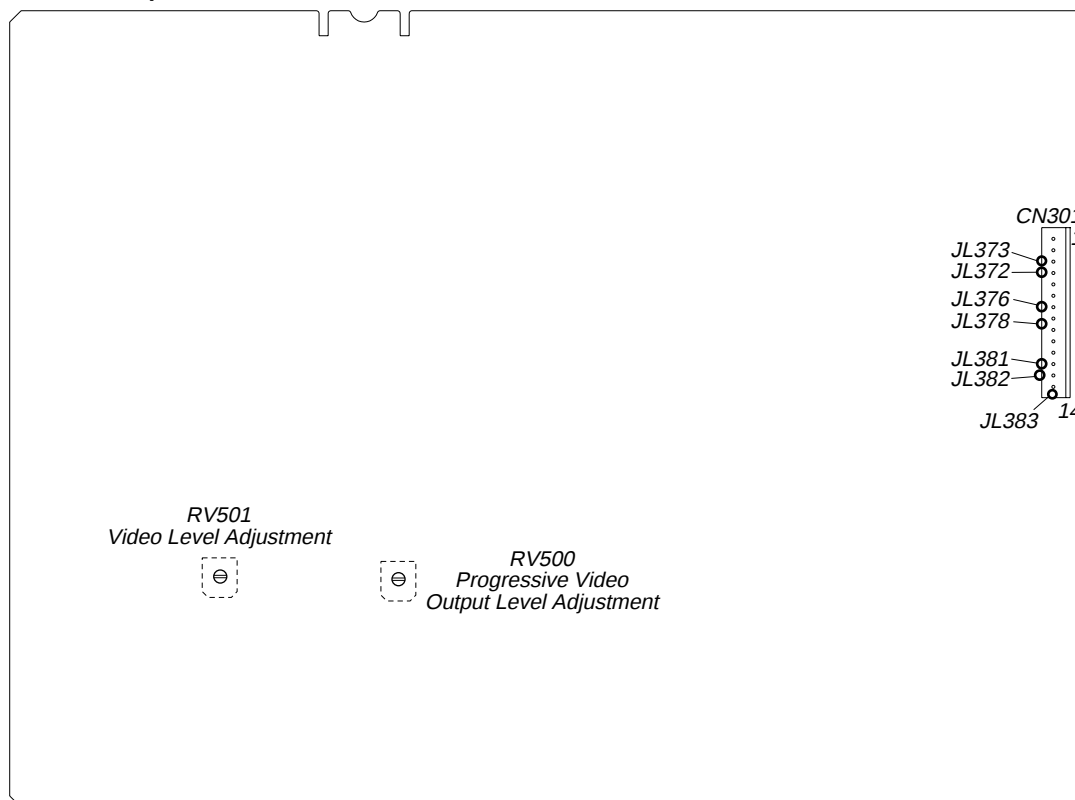
**Fig. 6-6****6-3-7. Checking Component Video Output R-Y****<Purpose>**

This checks component video output R-Y. If it is incorrect, correct colors will not be displayed when connected to, for instance, projector.

Mode	Video level adjustment in test mode
Signal	Color bars
Check point	COMPONENT VIDEO OUT (P _R /C _R) connector (J102) (75 Ω terminated)
Instrument	Oscilloscope
Specification	700 ± 50 mVp-p

Checking method:

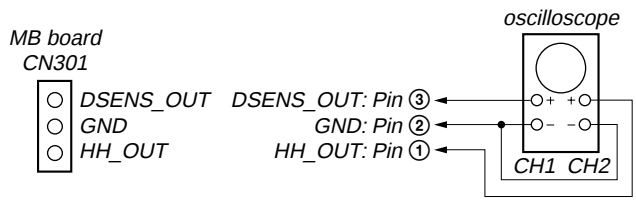
- 1) In the Test Mode Menu, select the “6. Video Level Adjustment” so that color bars are generated.
- 2) Confirm that the R-Y level is 700 ± 50 mVp-p.

**Fig. 6-7****Adjustment Location:****– AV Board (Conductor Side) –**

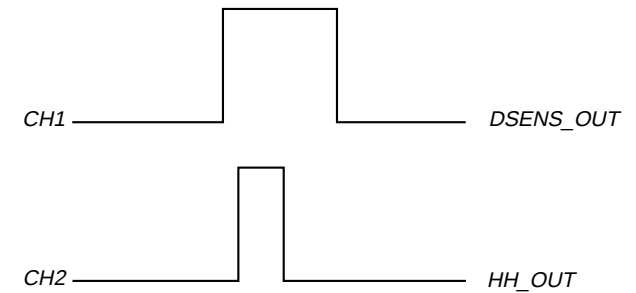
6-4. DISC DETECT SENSOR ADJUSTMENT

Be sure to perform this adjustment after sensor adjustment in MECHANICAL ADJUSTMENT. (See page 32)

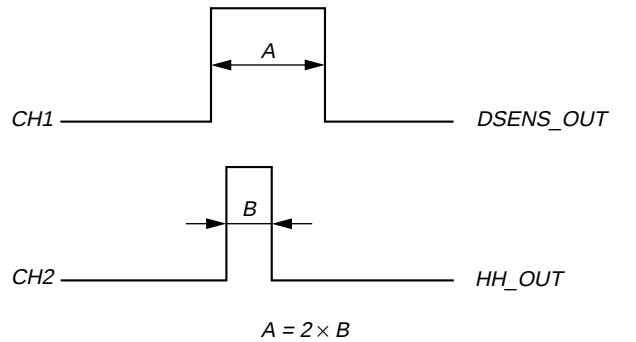
Connection:



Waveform:

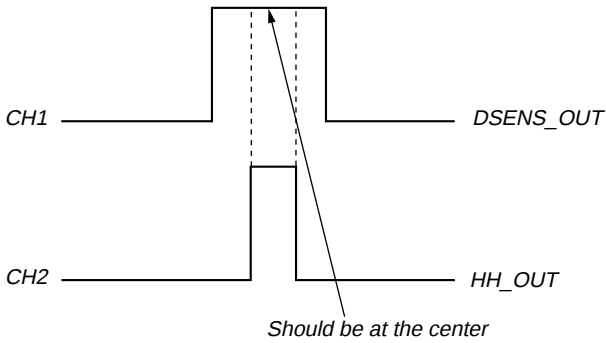
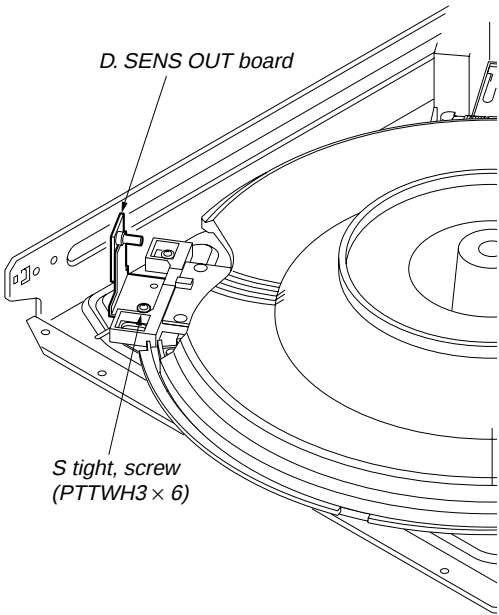


1. Connect the oscilloscope to pins ①, ② and ③ of CN301 on the MB board.
2. Check that no discs are loaded in the unit.
3. Perform from step 1 to step 5 in Pop Up Mechanism Adjustment. (See page 32)
4. Press the **PAUSE** key, then the table starts to rotate in the clockwise direction.
5. Turn the RV301 on MB board and adjust so that the H portion A of DSENS_OUT waveform is twice the width of the H portion B of HH_OUT waveform.



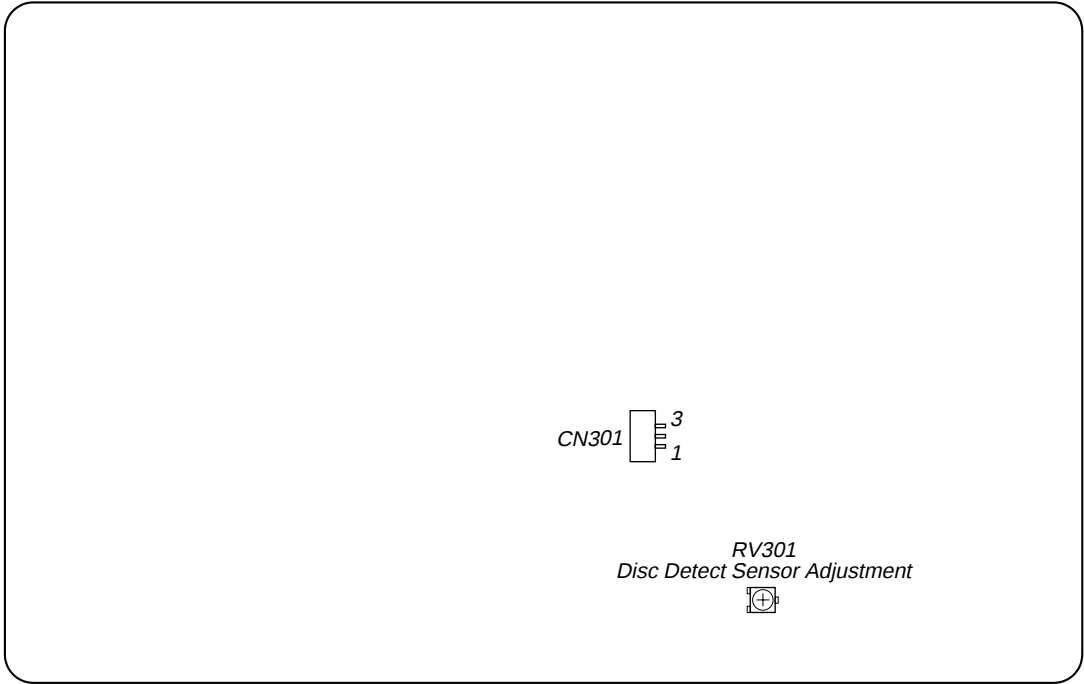
Adjustment Location: MB board

6. Loosen the fixing screw, move the mounting board (SENSOR), and secure the mounting board (SENSOR) at the point the H portion of the HH_OUT waveform comes the center of the H portion of the DSENS_OUT waveform.



Adjustment Location:

– MB Board (Side A) –



Signal Path Legend:

- Red arrow: PLAY (VIDEO)
- Blue arrow: PLAY (AUDIO)

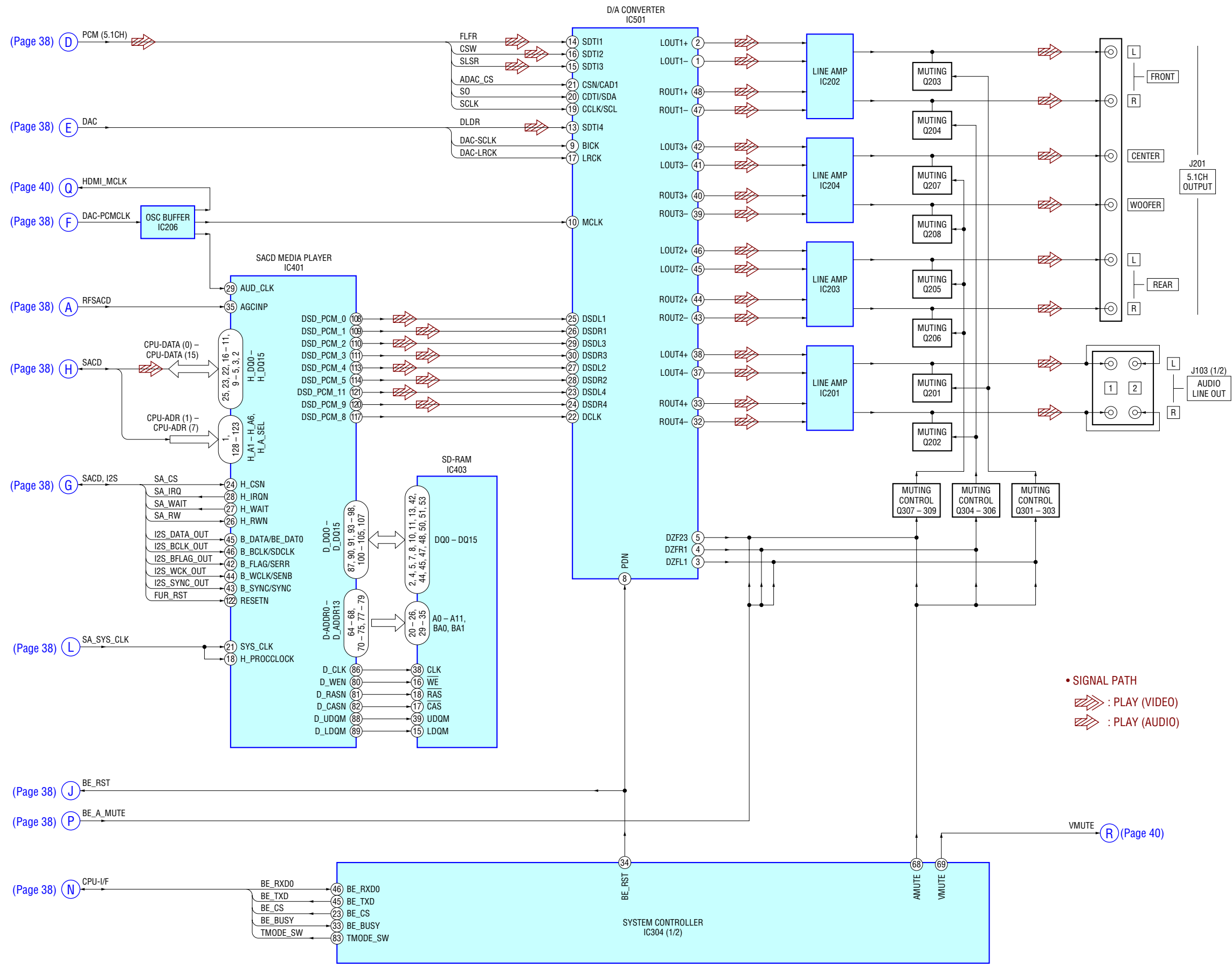
Key Components and Connections:

- Optical Traverse Unit (DBU-3):** Provides input signals (A-F, PD, LD (DVD), LD (CD), SW (DVD/CD), INLIM) to the DVD Interface IC104.
- DVD Interface IC104:** Manages DVD/CD data and control signals, including LMD1, LMD2, LD1, LD2, DVD/CD, and INLIM.
- Tracking/Focus Coil Drive, Spindle/SLED Motor Drive IC102:** Controls the motor drive signals (DO1+, DO1-, DO2+, DO2-, DO3+, DO3-, DO4+, DO4-, DO5+, DO5-).
- Low-Pass Filter IC101 (1/3):** Filters the motor drive signals.
- Center Voltage Generator IC101 (3/3):** Generates the center voltage for the motor drive.
- Reference Voltage Generator IC101 (2/3):** Generates the reference voltage (VREF 2.7V).
- Oscillator Buffer IC201:** Provides the system clock (PIX-CLK) from the 27MHz oscillator (X201).
- CPU IC205:** The central processing unit, managing CPU data, address, and control signals.
- Flash Memory IC202 and IC204:** Store system data and firmware.
- SD-RAM IC203:** Provides additional memory for the system.
- RF Filter Q105:** Filters the RF signal (RFSACD).
- Automatic Power Control ICs Q101, Q102, Q103, Q104:** Manage power control for DVD and CD playback.
- Level Shift IC310:** Shifts the level of the SPDIF signal for the optical transceiver.

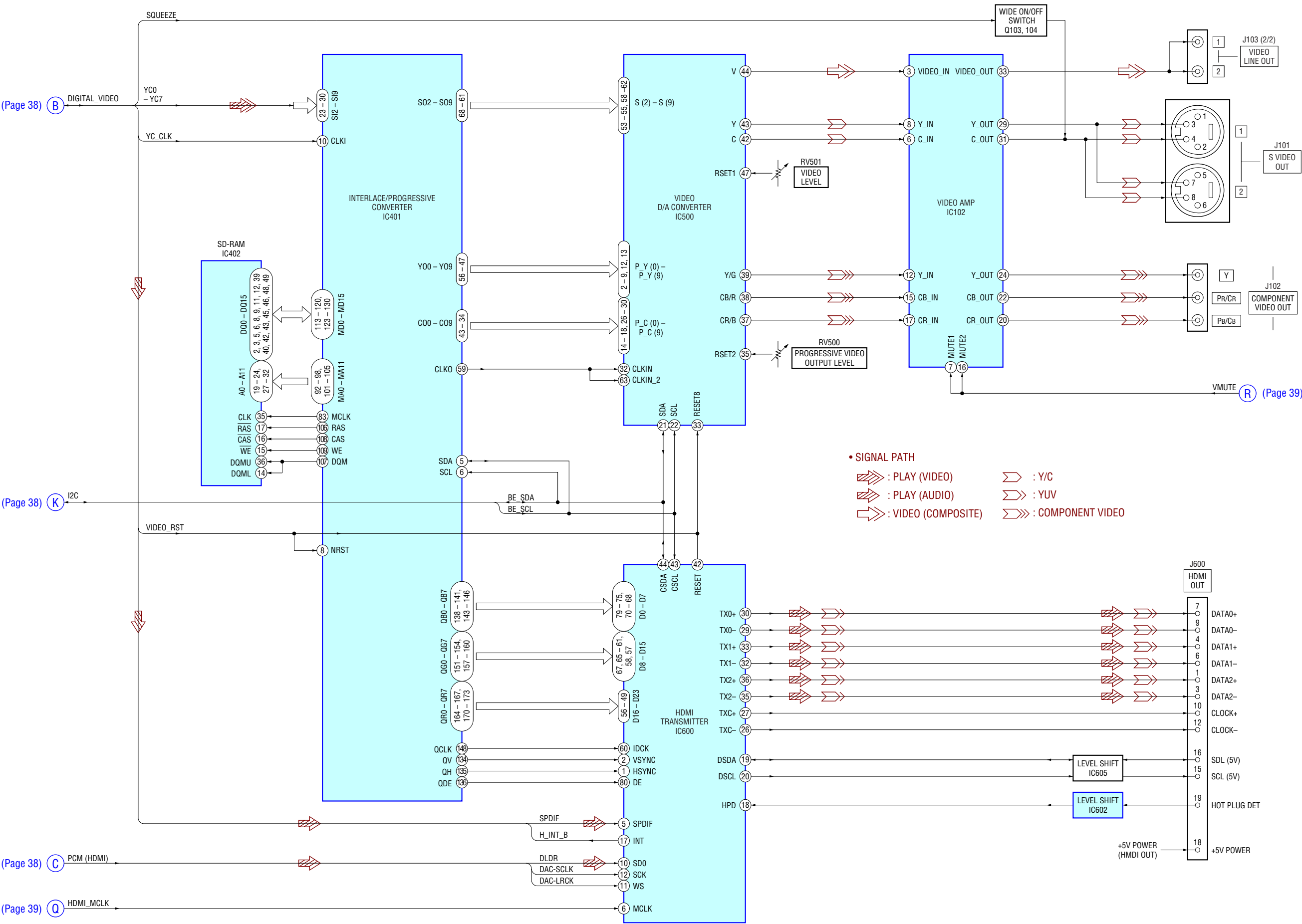
Signal Paths (A through P):

- A (Page 39):** RFSACD input.
- B (Page 40):** Digital Video output (YC0-YC7).
- C (Page 40):** PCM (HDMI) output.
- D (Page 39):** PCM (5.1CH) output.
- E (Page 39):** DAC output (DAC-PCMOUT3, DAC-SCLK, DAC-LRCK).
- F (Page 39):** DAC-PCMCLK output.
- G (Page 39):** SACD, I2S output.
- H (Page 39):** SCD output.
- J (Page 39):** BE_RST output.
- K (Page 40):** I2C output.
- L (Page 39):** SA_SYS_CLK output.
- N (Page 39):** CPU-I/F output.
- P (Page 39):** BE_A_MUTE output.

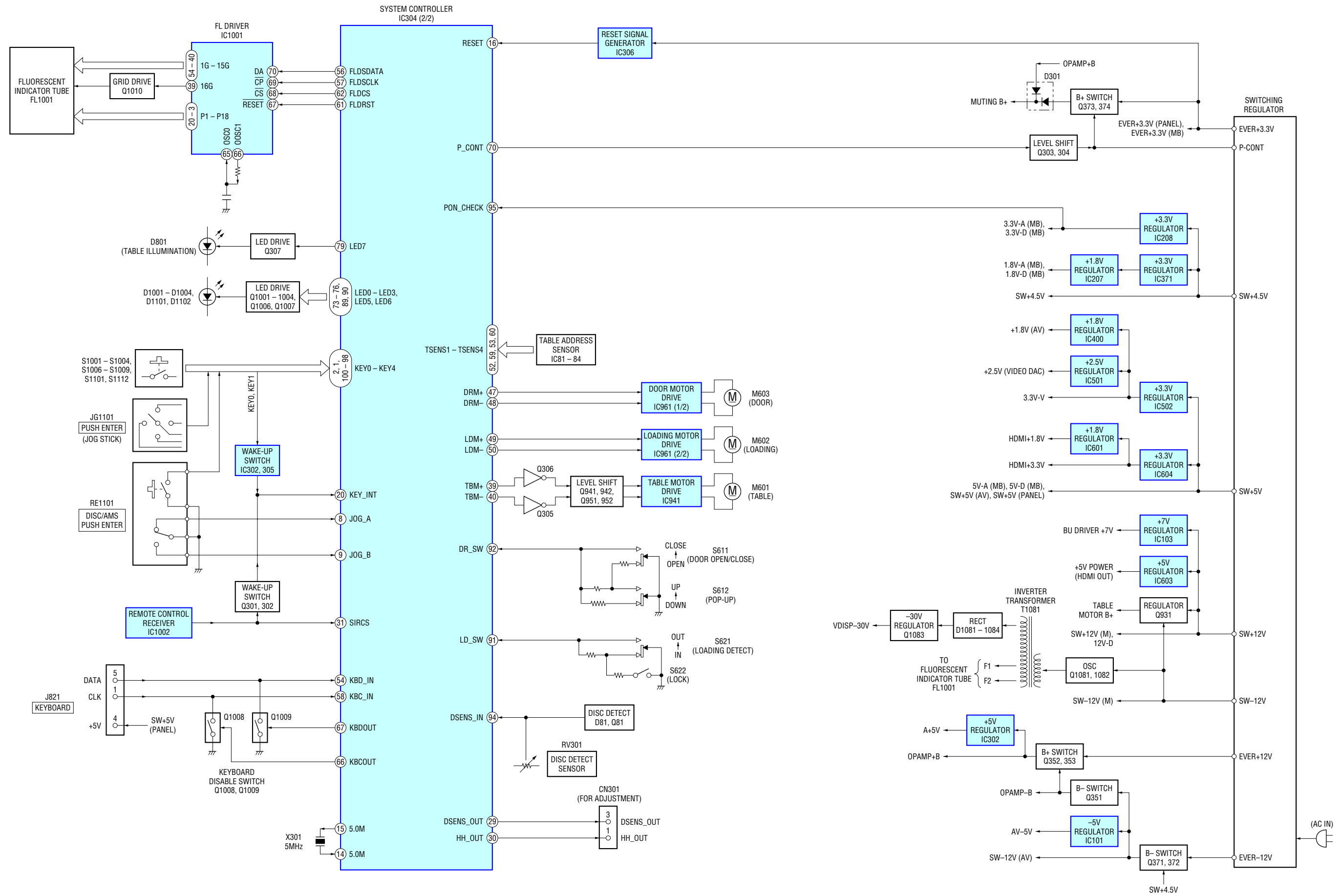
7-2. BLOCK DIAGRAM – AUDIO Section –



7-3. BLOCK DIAGRAM – VIDEO Section –



7-4. BLOCK DIAGRAM – PANEL, TABLE, POWER SUPPLY Section –



• Note for Printed Wiring Boards and Schematic Diagrams

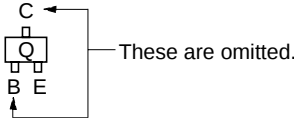
Note on Printed Wiring Board:

- : parts extracted from the component side.
- : parts extracted from the conductor side.
- △ : internal component.
- : 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 (Conductor Side) the pattern face are indicated.
Parts face side:	Parts on the parts face side seen from (Component Side) the parts face are 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.

- MB board and AV board are multi-layer printed board. However, the patterns of intermediate-layer have not been included in diagram.
- Indication of transistor



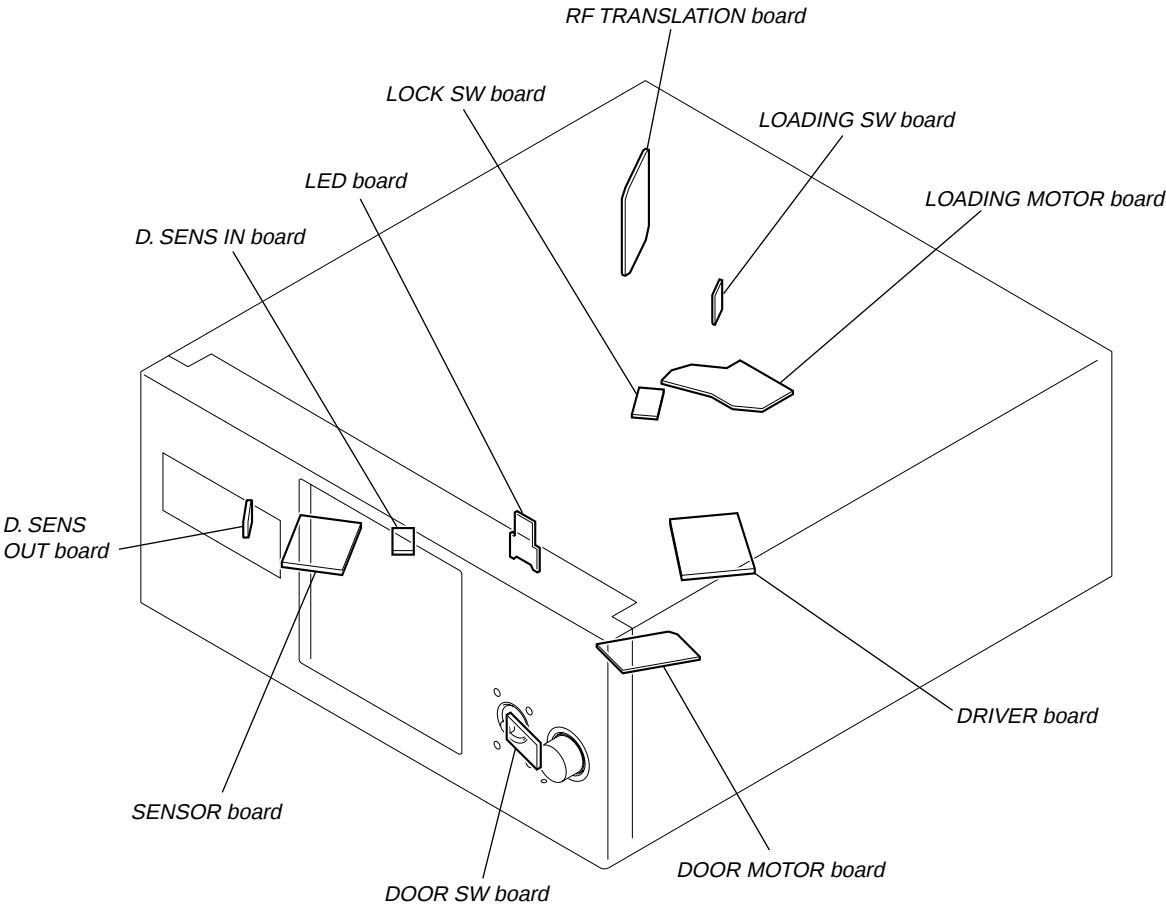
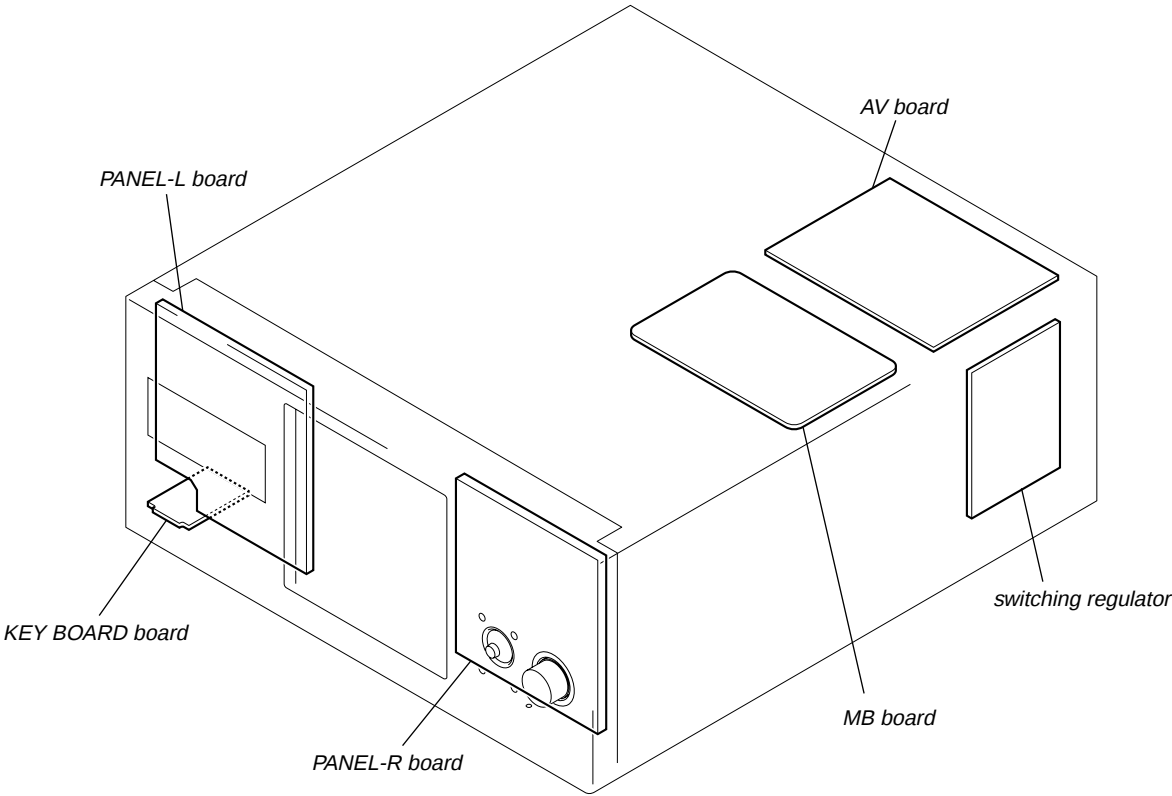
Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4} \text{ W}$ or less unless otherwise specified.
- △ : internal component.
- □ : panel designation.

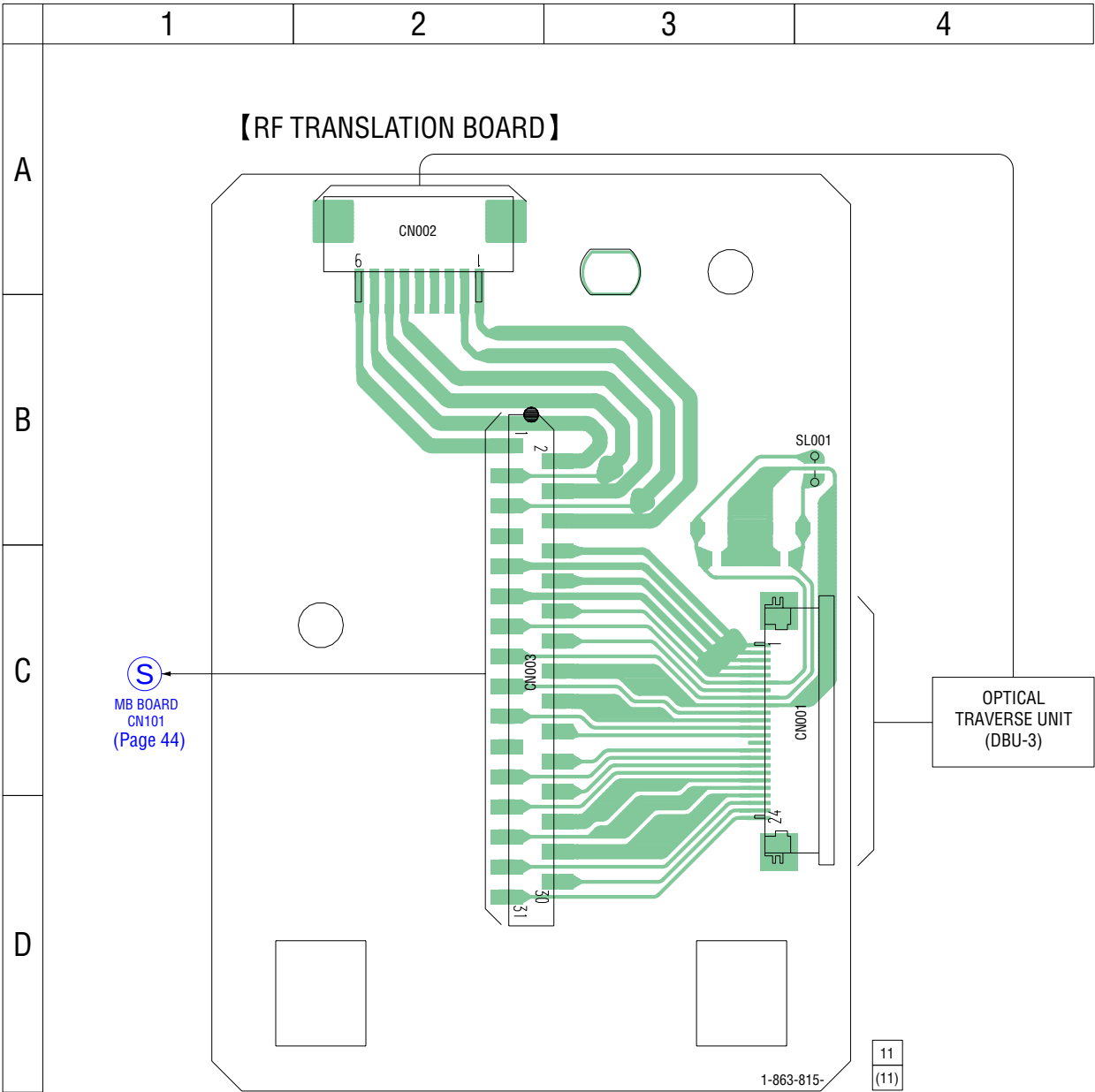
Note: The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.	Note: Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
--	--

- — : B+ Line.
- - - - : B- Line.
- □ : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
no mark : DVD PLAY
() : SACD PLAY
[] : CD PLAY
* : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
⇒ : PLAY (VIDEO)
⇒ : PLAY (AUDIO)
⇒ : VIDEO (COMPOSITE)
⇒ : Y/C
⇒ : YUV
⇒ : COMPONENT VIDEO

• Circuit Boards Location



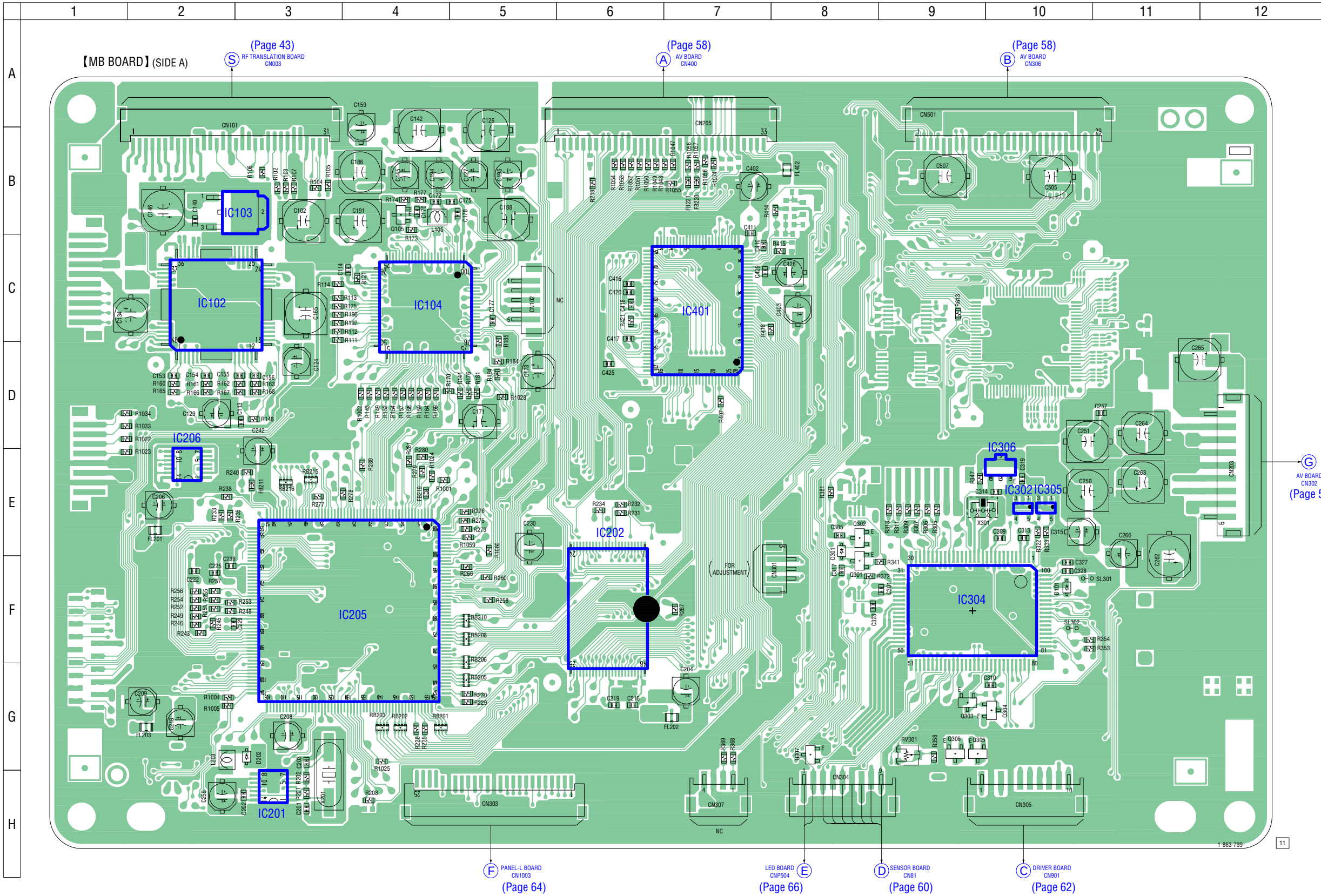
7-5. PRINTED WIRING BOARD – RF TRANSLATION Board – • See page 42 for Circuit Boards Location. : Uses unleaded solder.



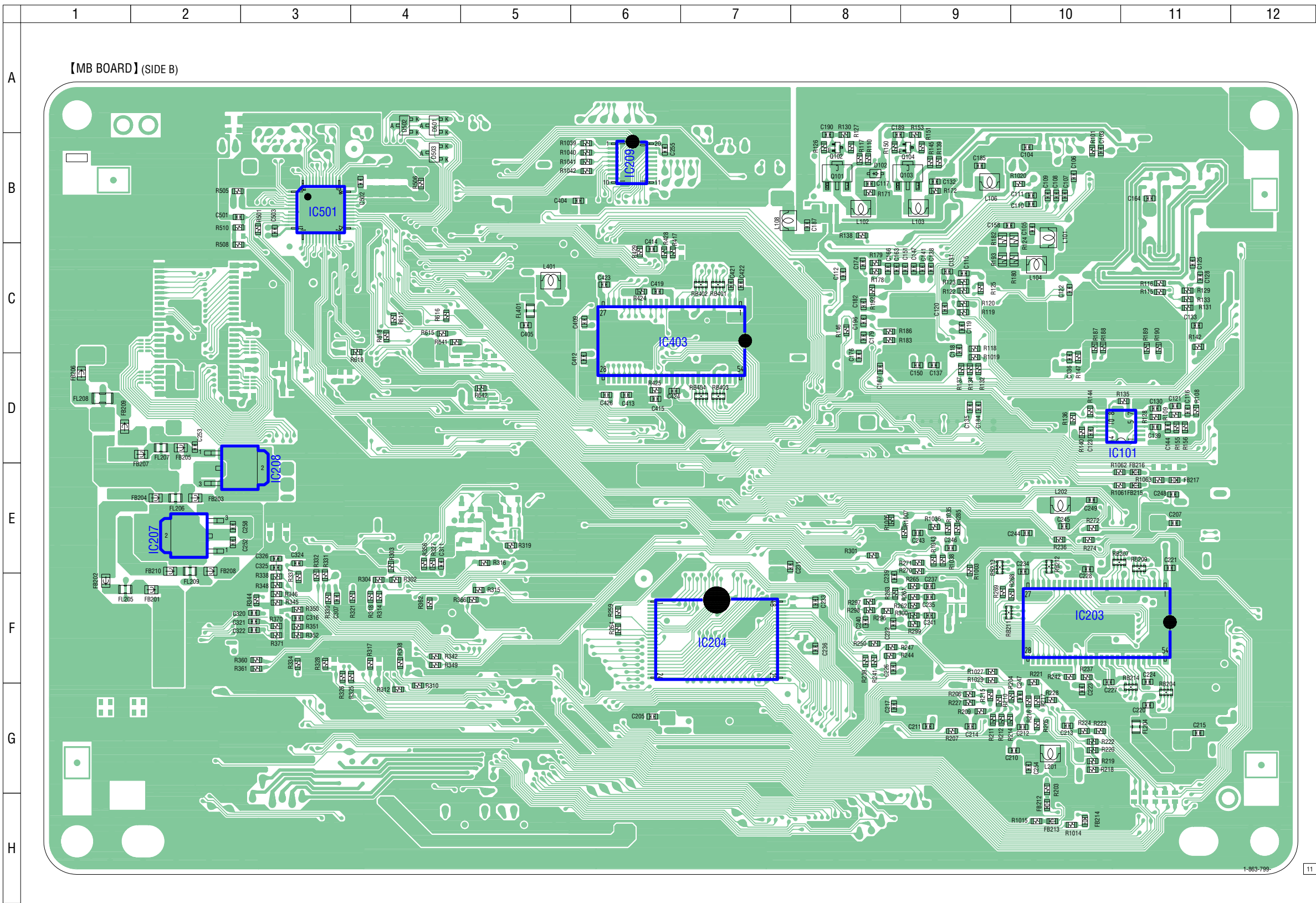
7-6. PRINTED WIRING BOARD – MB Board (Side A) – • See page 42 for Circuit Boards Location.  : Uses unleaded solder.

• Semiconductor Location

Ref. No.	Location
D101	F-10
D202	G-3
D301	E-8
IC102	C-2
IC103	B-3
IC104	C-4
IC201	H-3
IC202	F-6
IC205	F-4
IC206	E-2
IC302	E-10
IC304	F-9
IC305	E-10
IC306	E-10
IC401	C-7
Q105	B-4
Q301	F-8
Q302	E-8
Q303	G-9
Q304	G-10
Q305	G-9
Q306	G-9
Q307	G-8



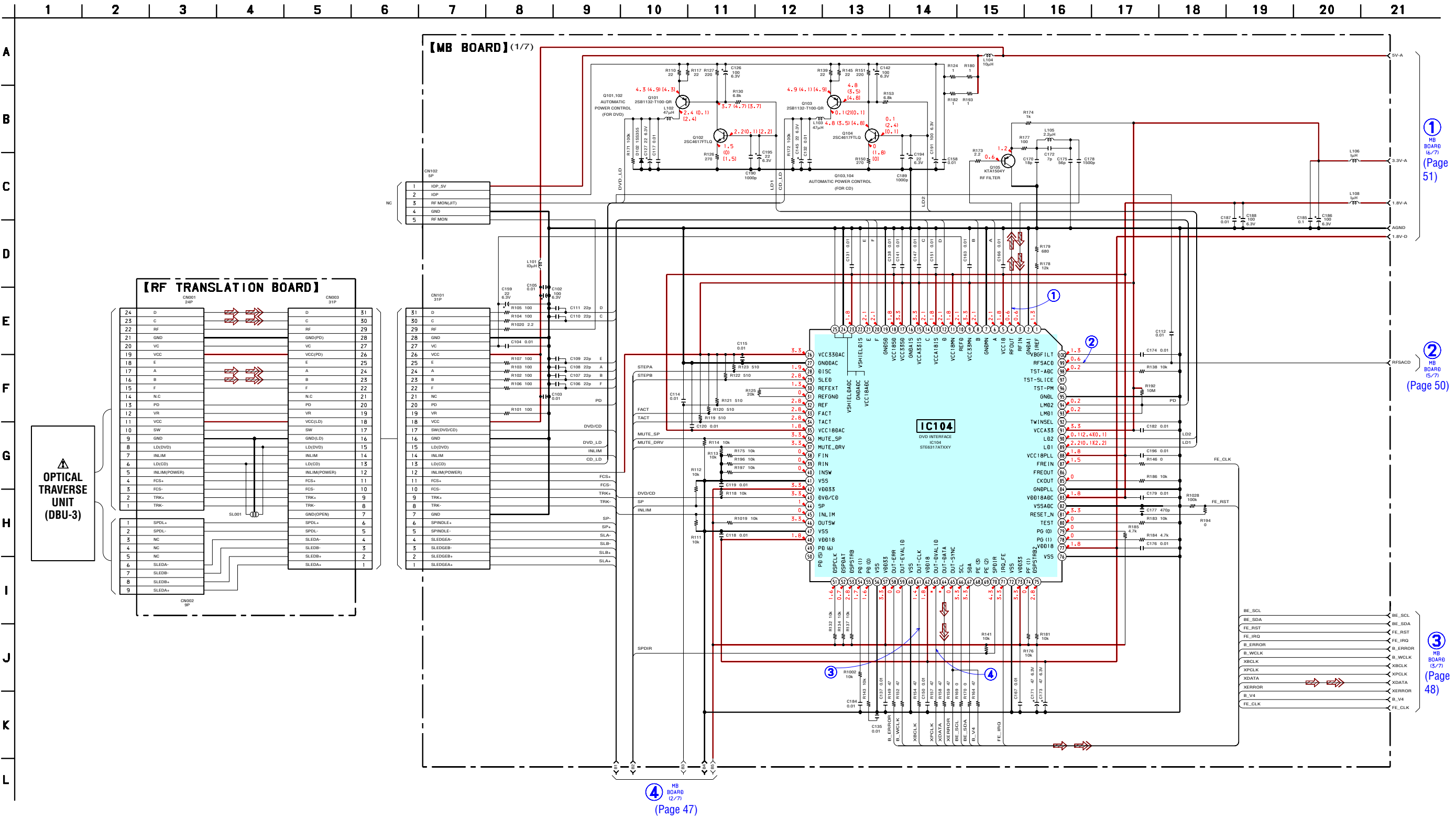
7-7. PRINTED WIRING BOARD – MB Board (Side B) – • See page 42 for Circuit Boards Location. : Uses unleaded solder.



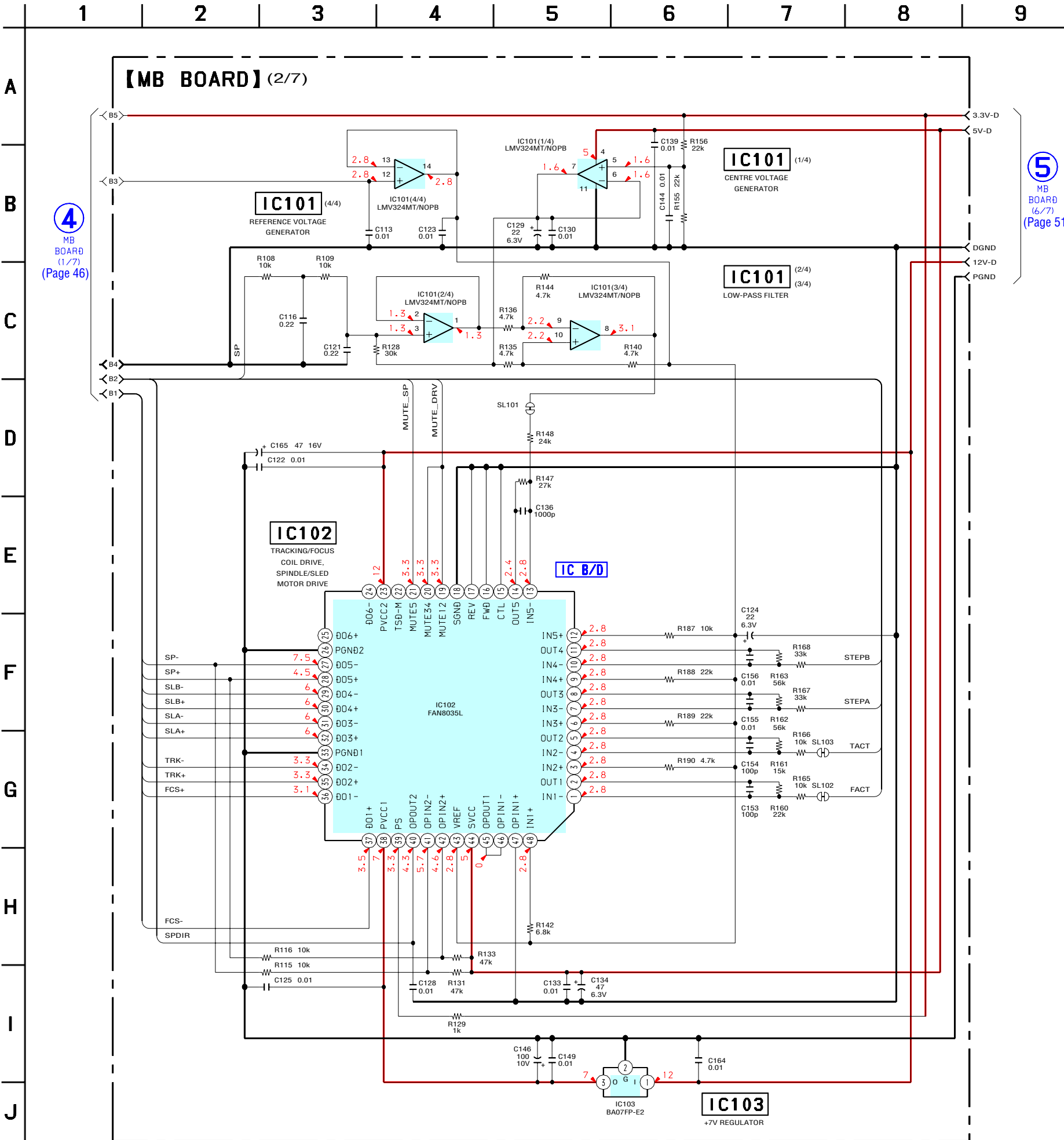
• Semiconductor Location

Ref. No.	Location
D102	B-8
D501	A-4
D502	A-4
D503	B-4
IC101	D-11
IC203	F-10
IC204	F-7
IC207	E-2
IC208	E-3
IC209	B-6
IC403	C-6
IC501	B-3
Q101	B-8
Q102	B-8
Q103	B-9
Q104	B-9

7-8. SCHEMATIC DIAGRAM – MB Section (1/7) – • See page 68 for Waveforms. • See page 76 for IC Pin Function Description.



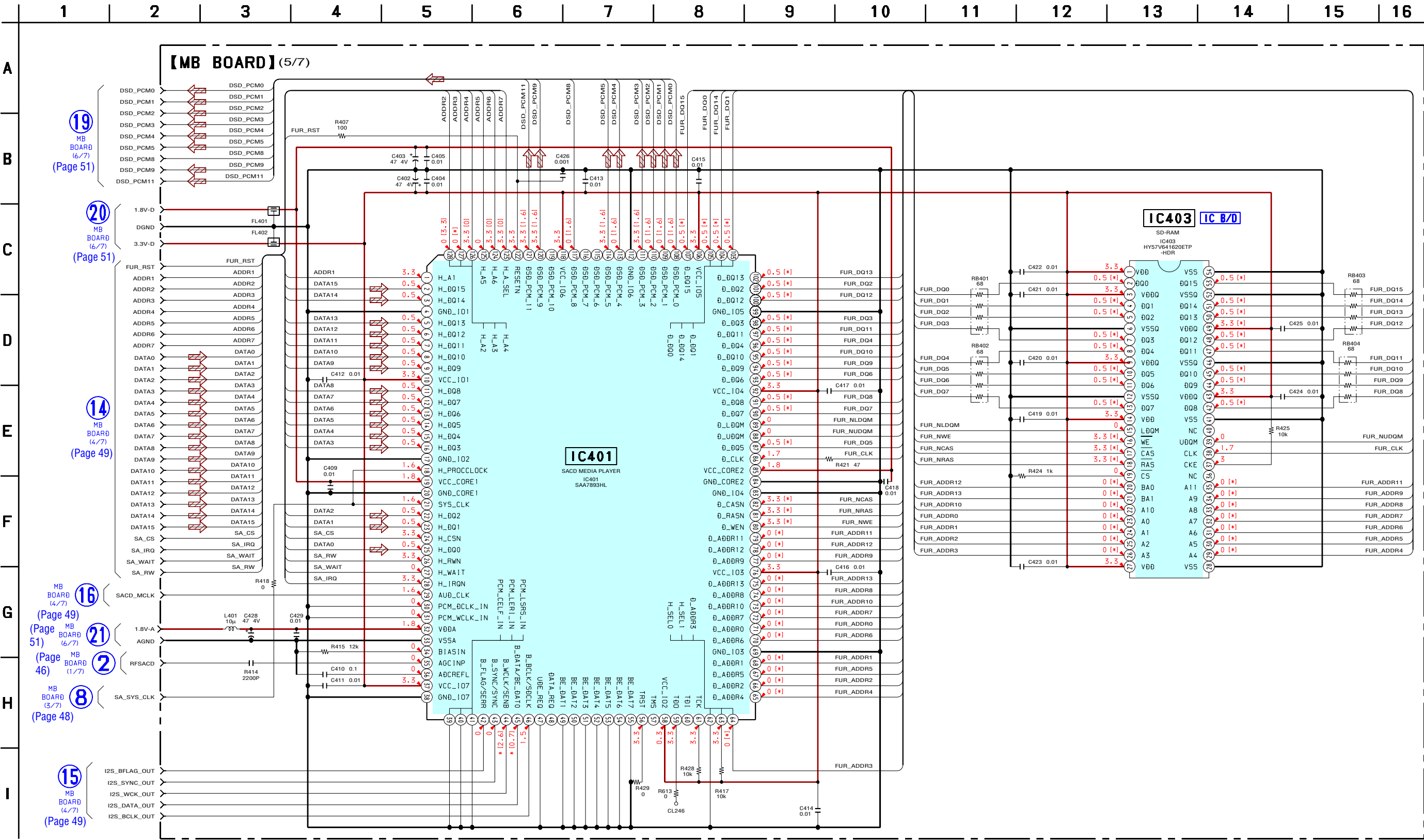
7-9. SCHEMATIC DIAGRAM – MB Section (2/7) – • See page 69 for IC Block Diagrams.

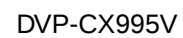


48 48



7-12. SCHEMATIC DIAGRAM – MB Section (5/7) – • See page 69 for IC Block Diagrams. • See page 76 for IC Pin Function Description.

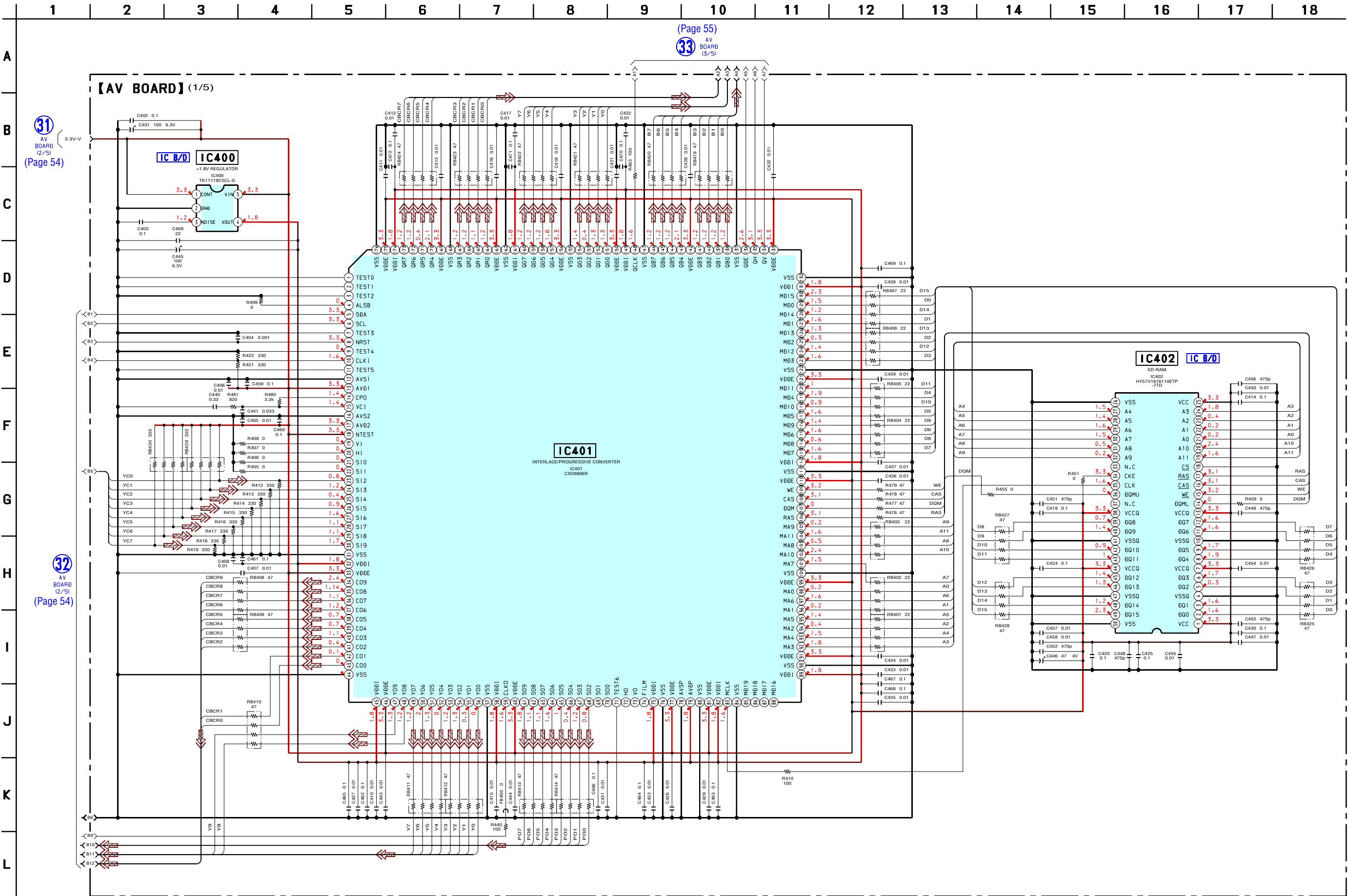




52 52



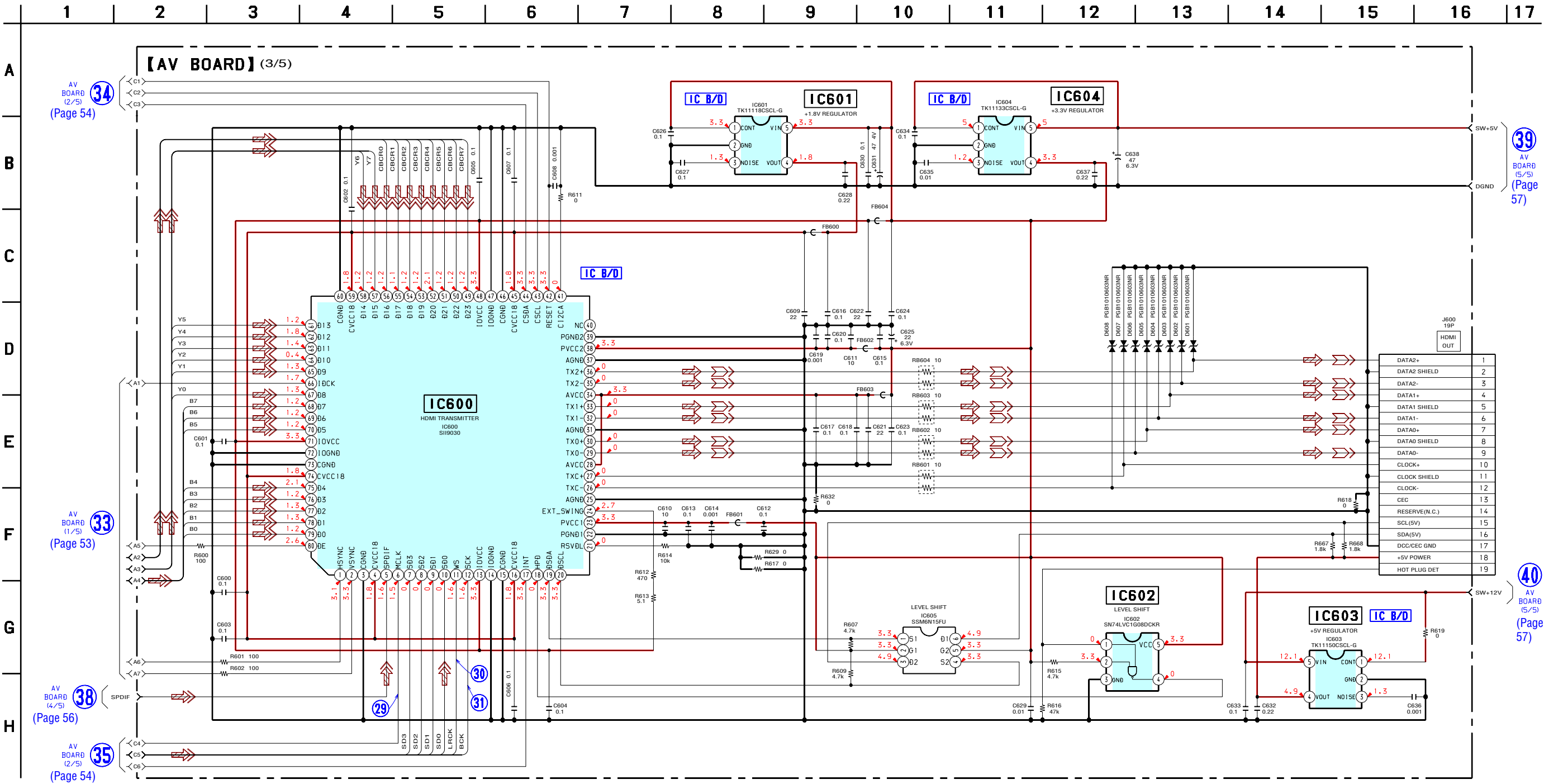
7-15. SCHEMATIC DIAGRAM – AV Board (1/5) – • See page 69 for IC Block Diagrams. • See page 76 for IC Pin Function Description.



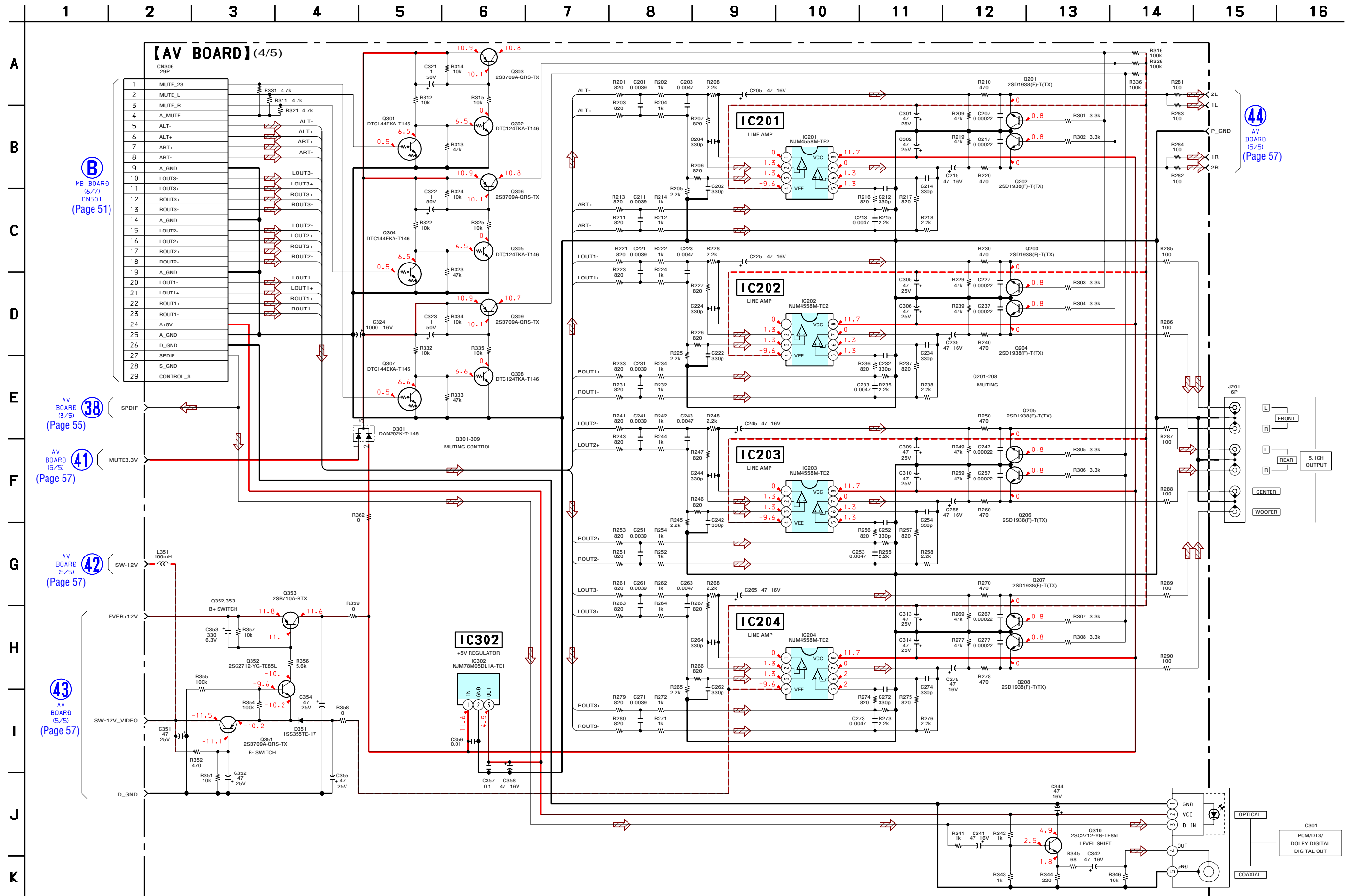
54 54



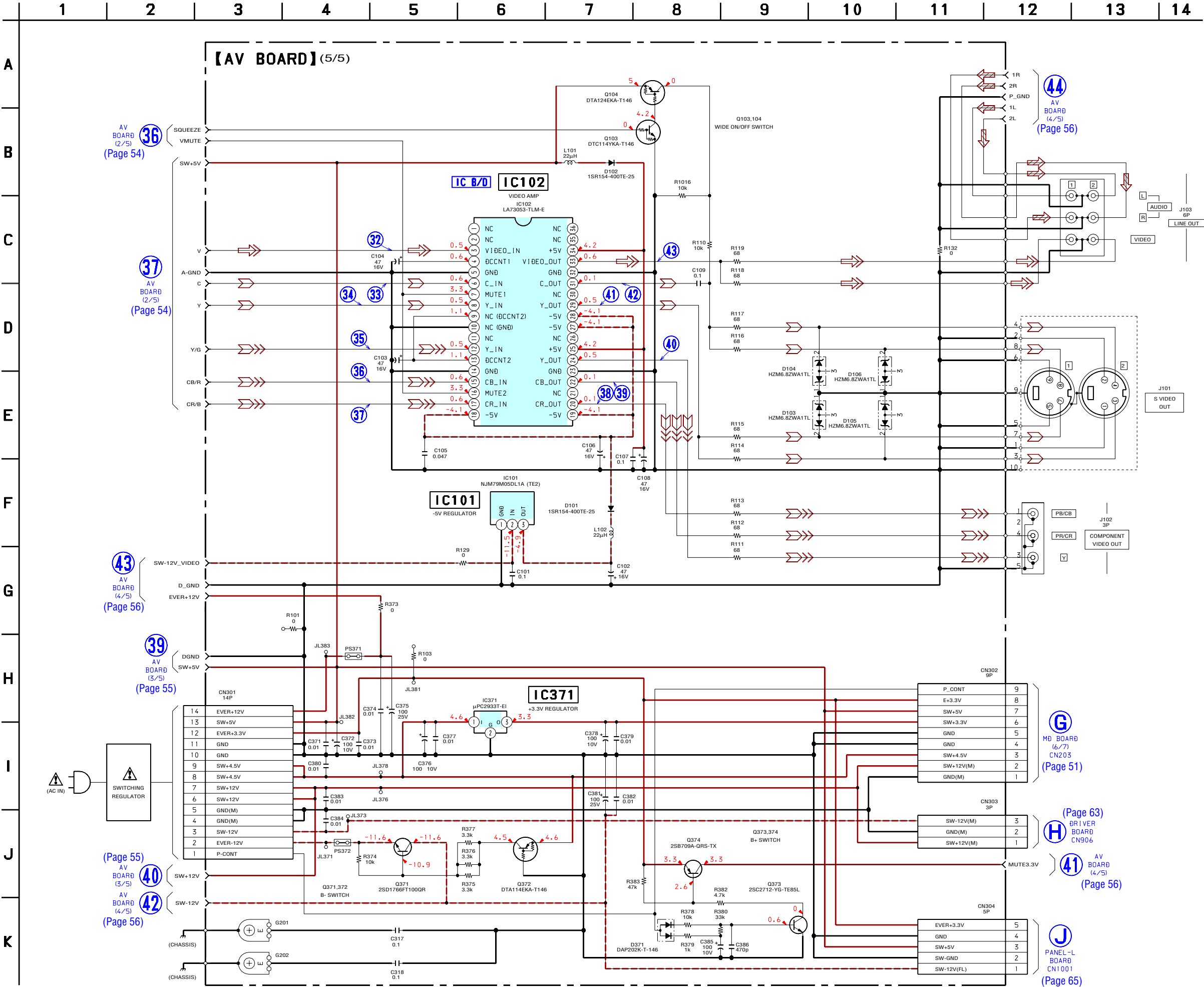
7-17. SCHEMATIC DIAGRAM – AV Board (3/5) – • See page 68 for Waveforms. • See page 69 for IC Block Diagrams.



7-18. SCHEMATIC DIAGRAM – AV Board (4/5) –



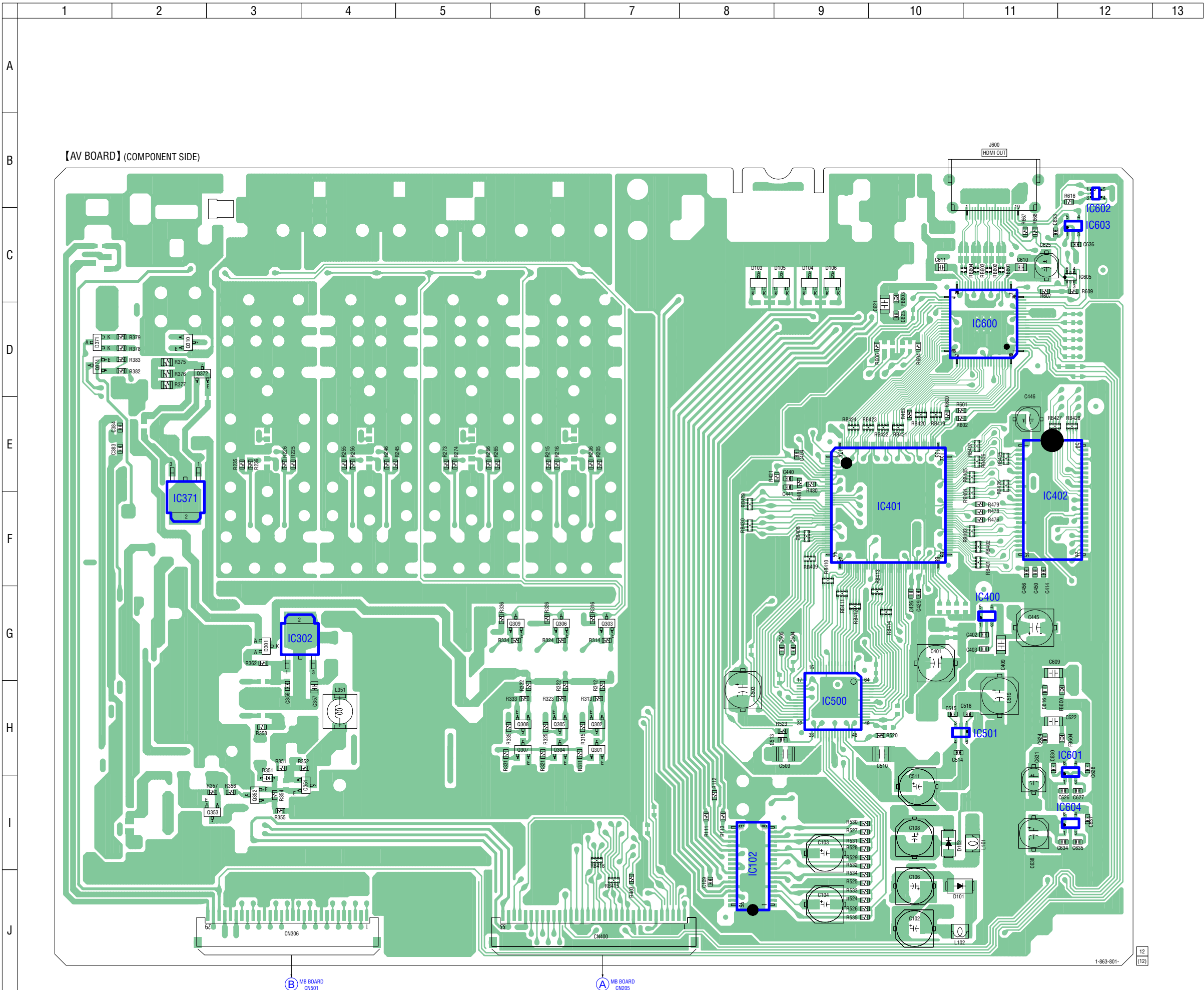
7-19. SCHEMATIC DIAGRAM – AV Board (5/5) – • See page 68 for Waveforms. • See page 69 for IC Block Diagrams.



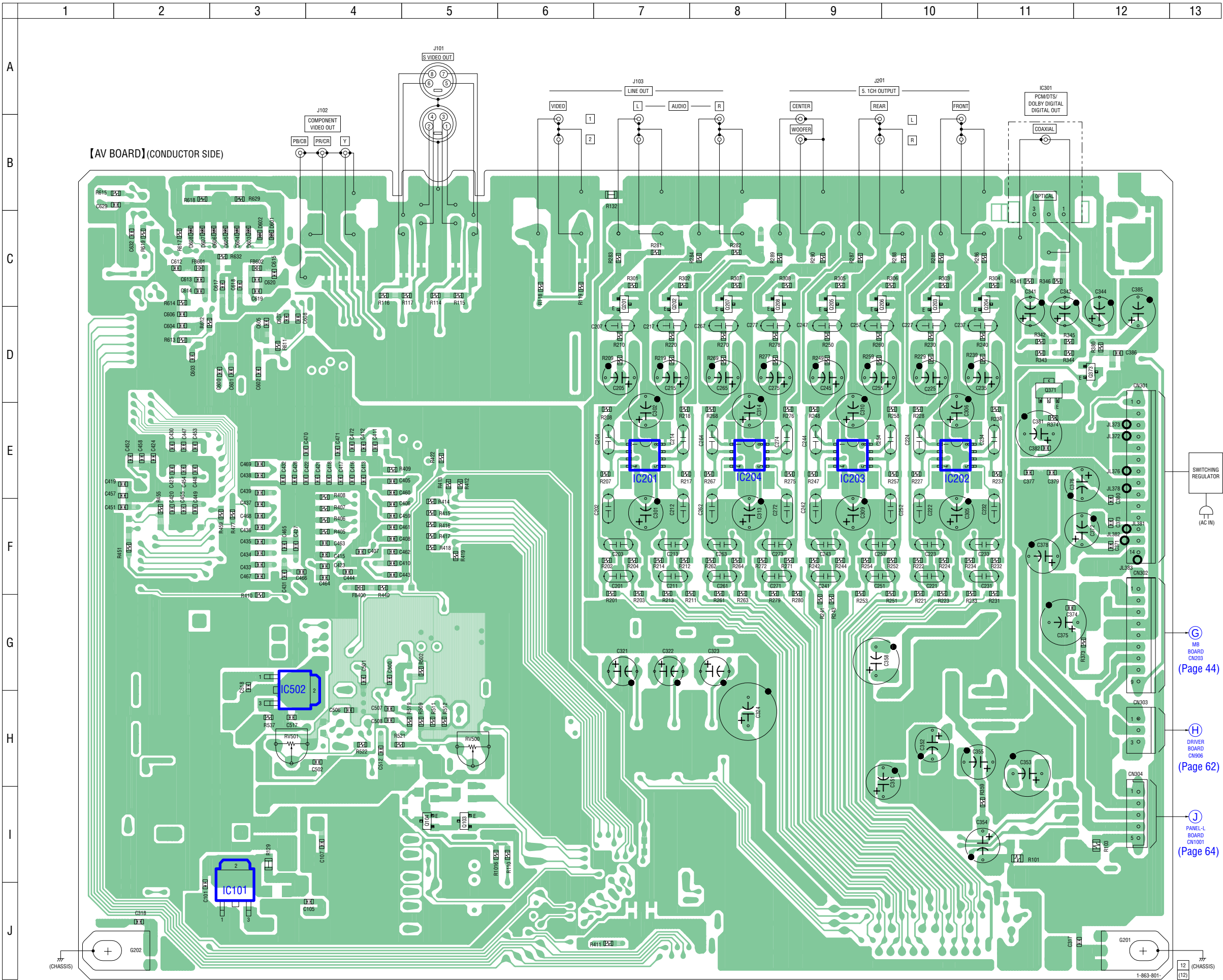
7-20. PRINTED WIRING BOARD – AV Board (Component Side) – • See page 42 for Circuit Boards Location. : Uses unleaded solder.

• Semiconductor Location

Ref. No.	Location
D101	J-10
D102	I-10
D103	C-8
D104	C-9
D105	C-9
D106	C-9
D301	G-3
D351	I-3
D371	D-1
IC102	I-8
IC302	G-3
IC371	F-2
IC400	G-11
IC401	F-10
IC402	F-11
IC500	H-9
IC501	H-10
IC600	D-11
IC601	H-12
IC602	B-12
IC603	C-12
IC604	I-12
IC605	C-12
Q301	H-7
Q302	H-7
Q303	G-7
Q304	H-6
Q305	H-6
Q306	G-6
Q307	H-6
Q308	H-6
Q309	G-6
Q310	D-2
Q351	I-4
Q352	I-3
Q353	I-3
Q372	D-2
Q374	D-1



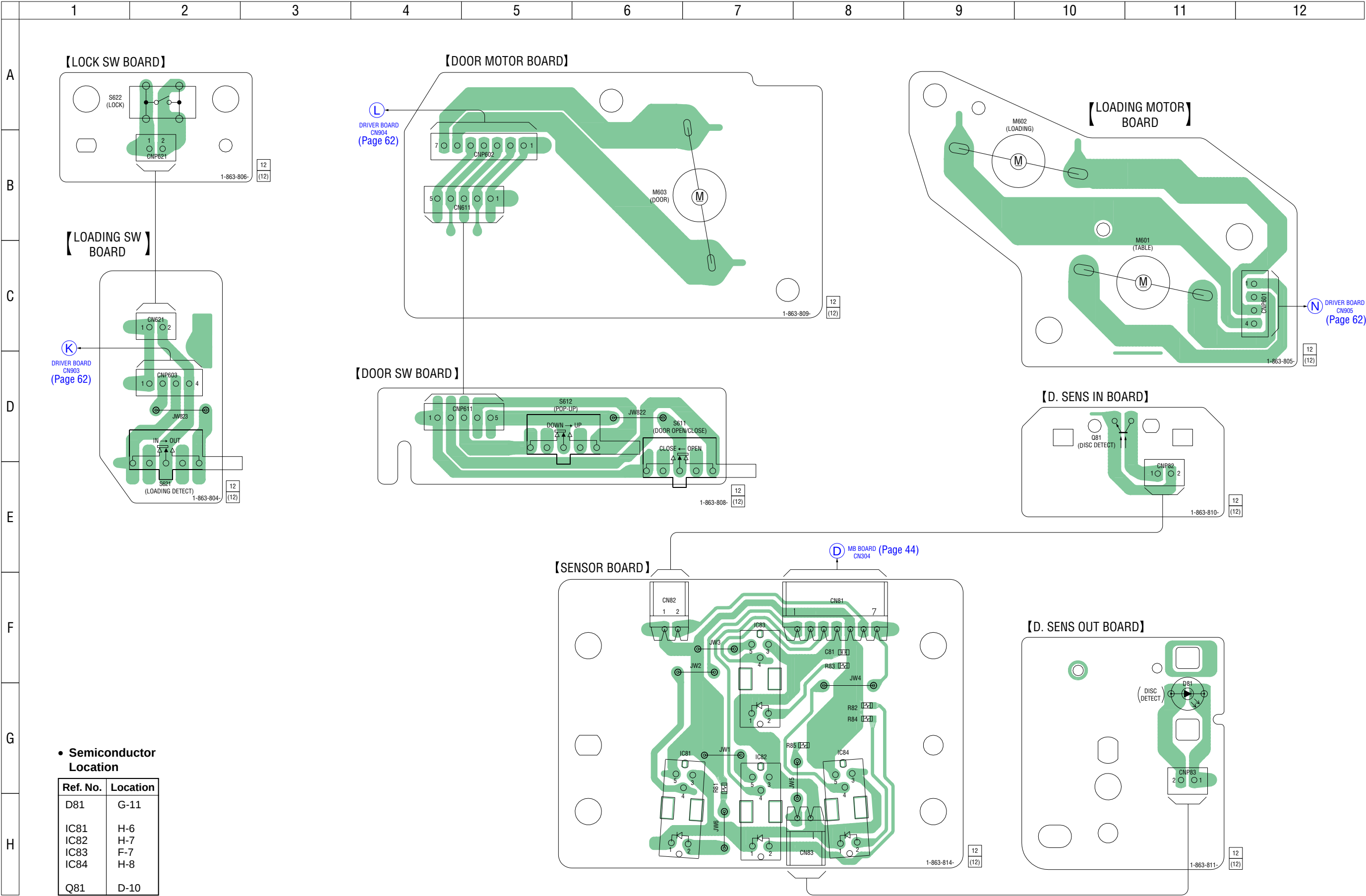
7-21. PRINTED WIRING BOARD – AV Board (Conductor Side) – • See page 42 for Circuit Boards Location.  : Uses unleaded solder.



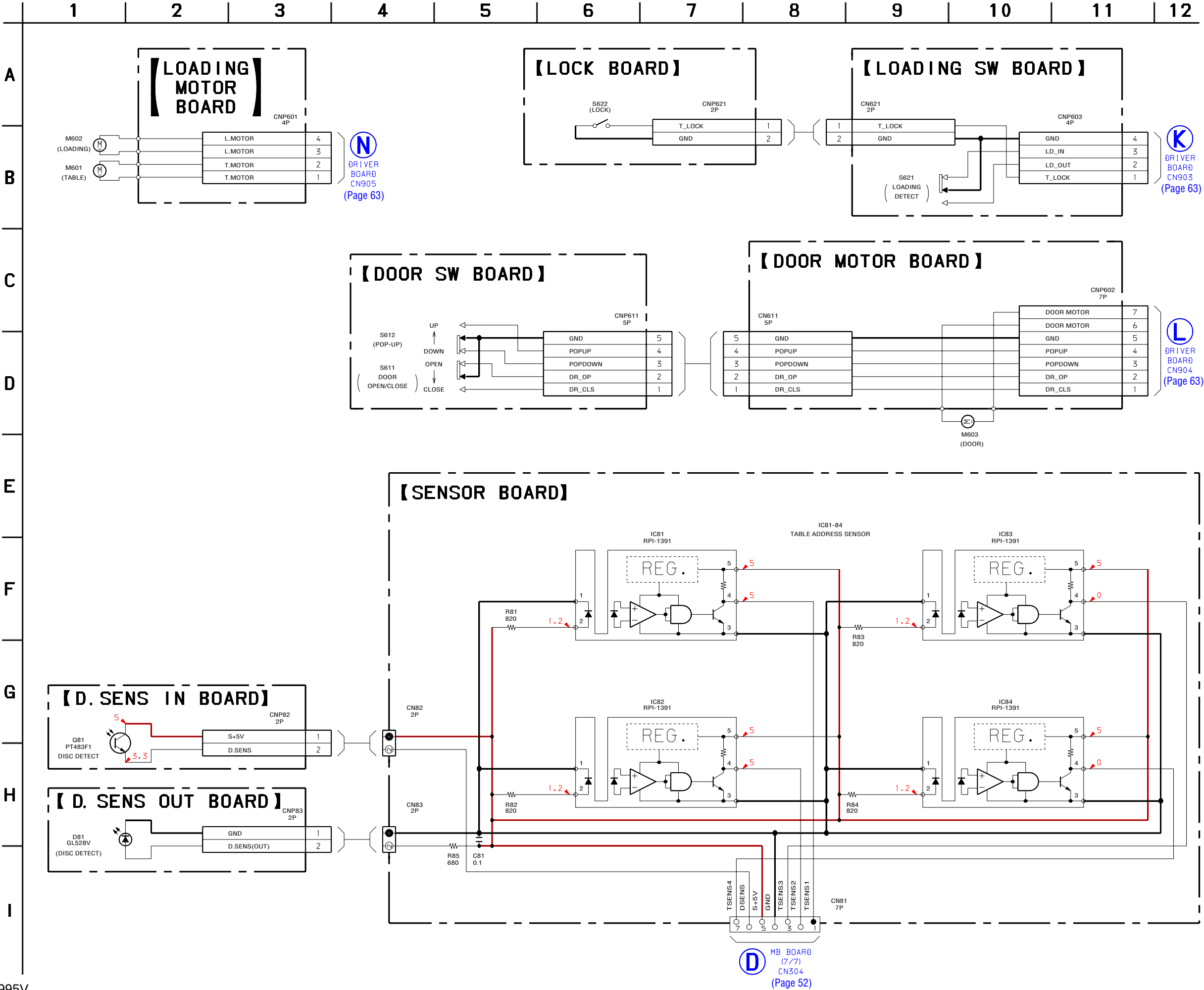
• Semiconductor Location

Ref. No.	Location
D601	C-3
D602	C-3
D603	C-3
D604	C-3
D605	C-3
D606	C-3
D607	C-2
D608	C-2
IC101	I-3
IC201	E-7
IC202	E-10
IC203	E-9
IC204	E-8
IC301	B-11
IC502	G-3
Q103	I-5
Q104	I-5
Q201	C-7
Q202	C-7
Q203	C-10
Q204	C-11
Q205	C-9
Q206	C-10
Q207	C-8
Q208	C-8
Q371	D-11
Q373	D-12

7-22. PRINTED WIRING BOARDS – TABLE Section – • See page 42 for Circuit Boards Location. : Uses unleaded solder.



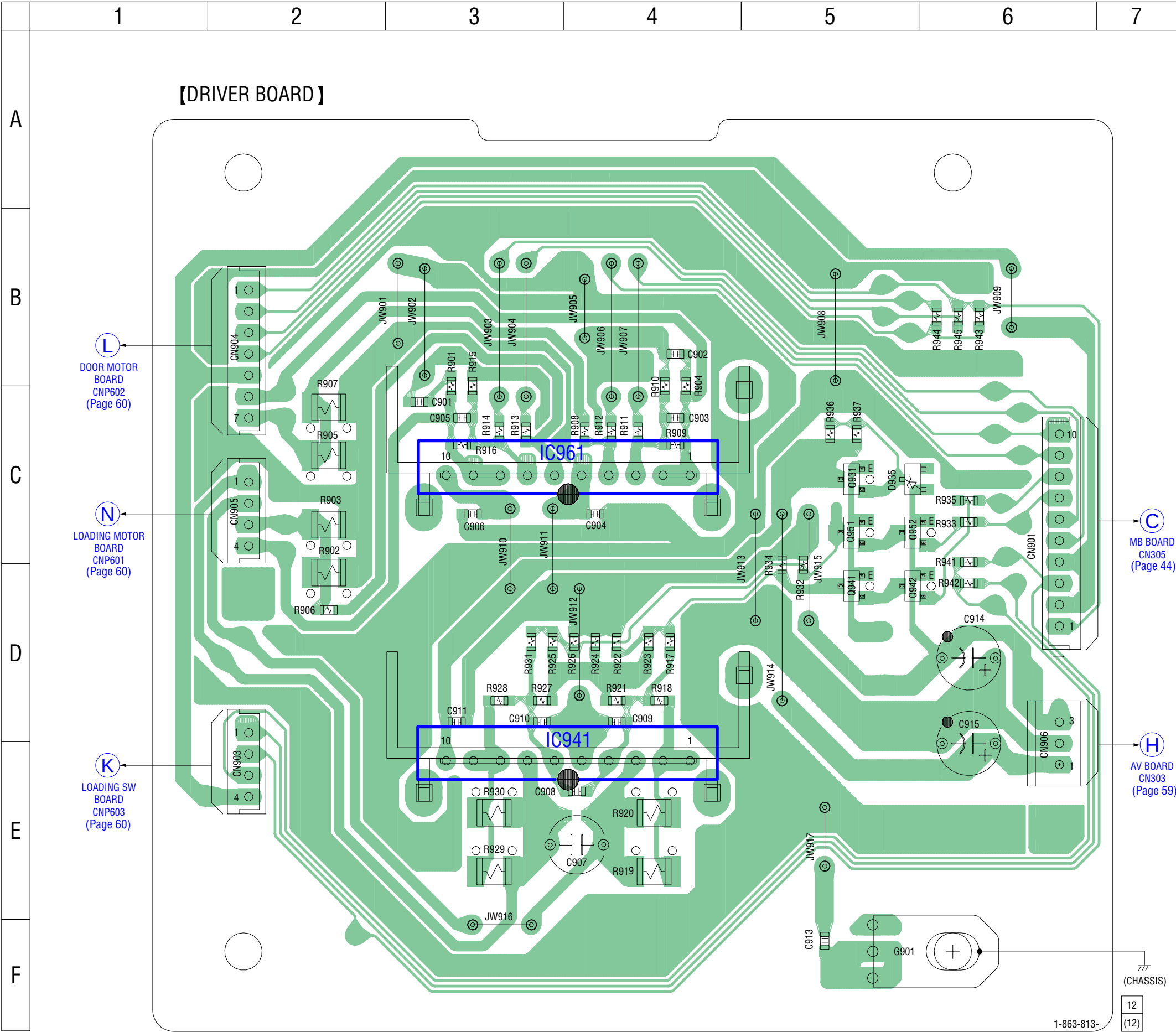
7-23. SCHEMATIC DIAGRAM – TABLE Section –



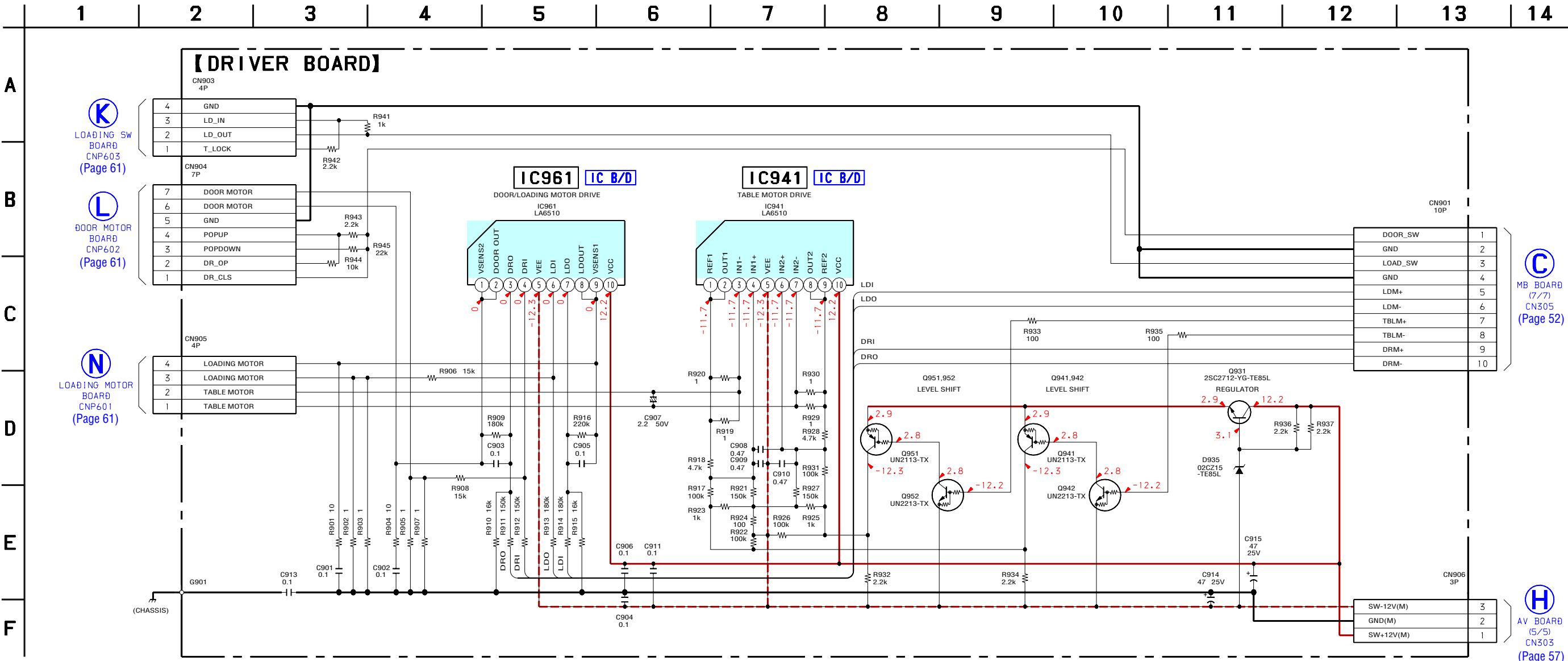
7-24. PRINTED WIRING BOARD – DRIVER Board – • See page 42 for Circuit Boards Location.  : Uses unleaded solder.

• Semiconductor Location

Ref. No.	Location
D935	C-5
IC941	E-4
IC961	C-4
Q931	C-5
Q941	D-5
Q942	D-5
Q951	C-5
Q952	C-5



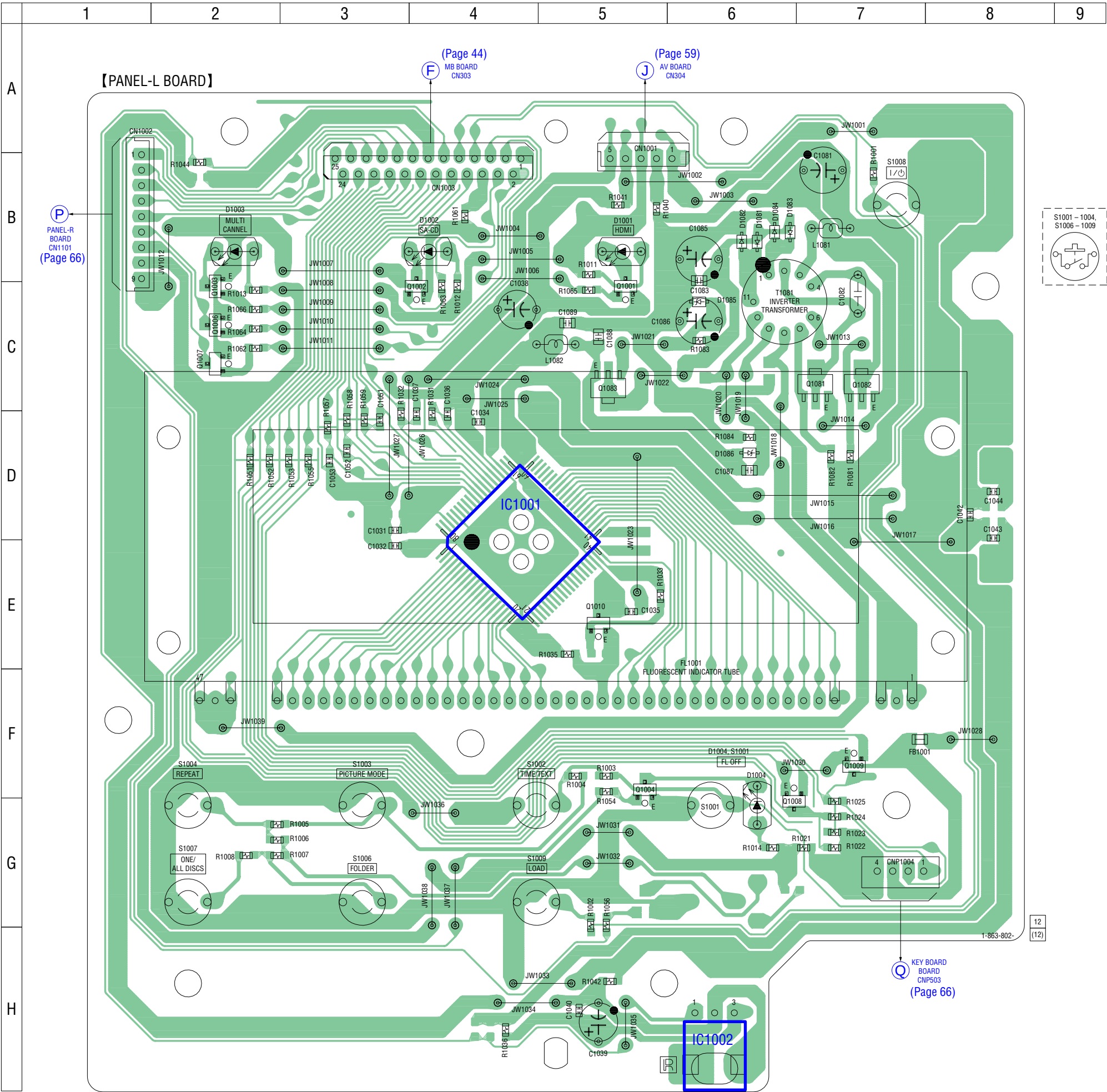
7-25. SCHEMATIC DIAGRAM – DRIVER Board – • See page 69 for IC Block Diagrams.



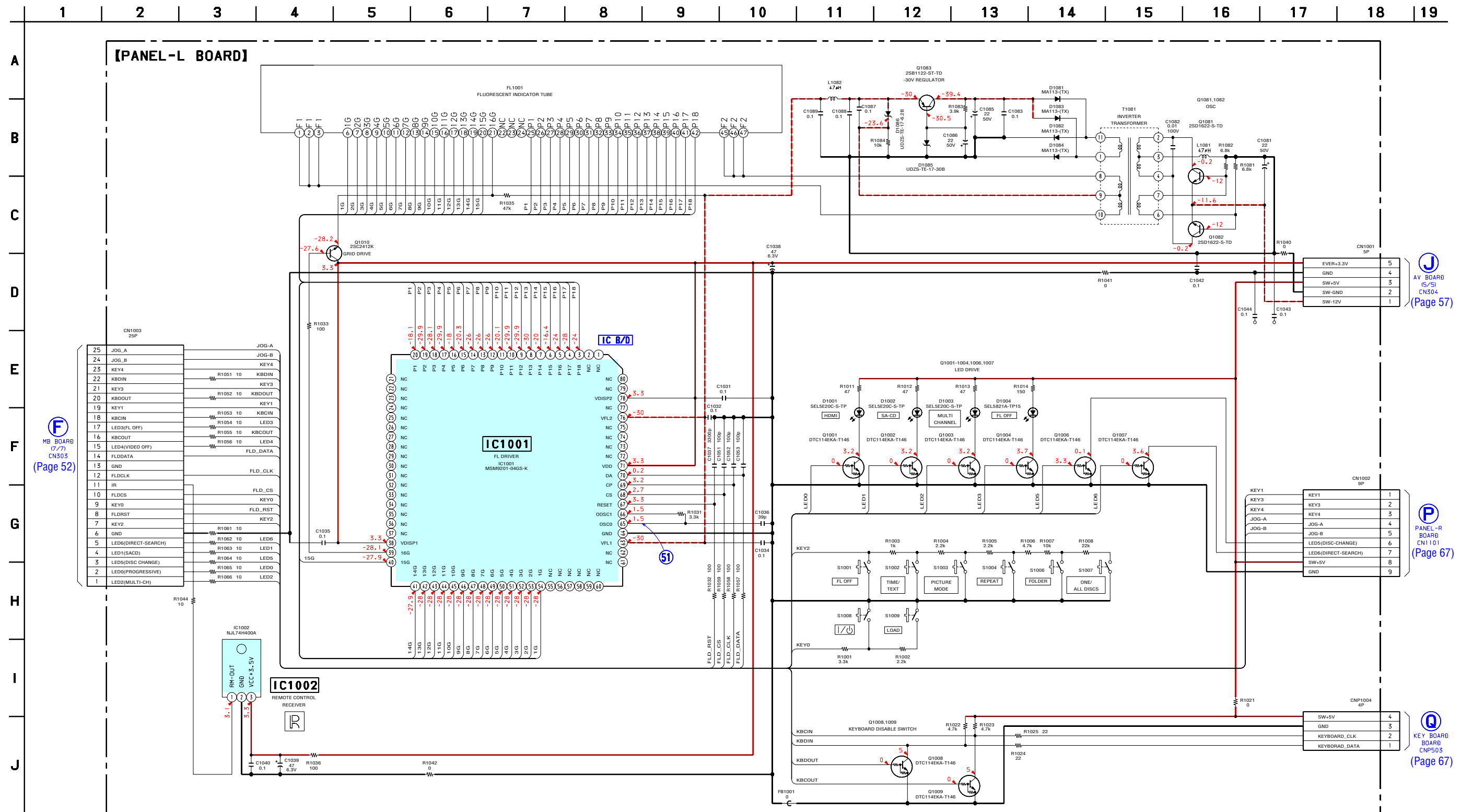
7-26. PRINTED WIRING BOARD – PANEL-L Board – • See page 42 for Circuit Boards Location.  : Uses unleaded solder.

• Semiconductor Location

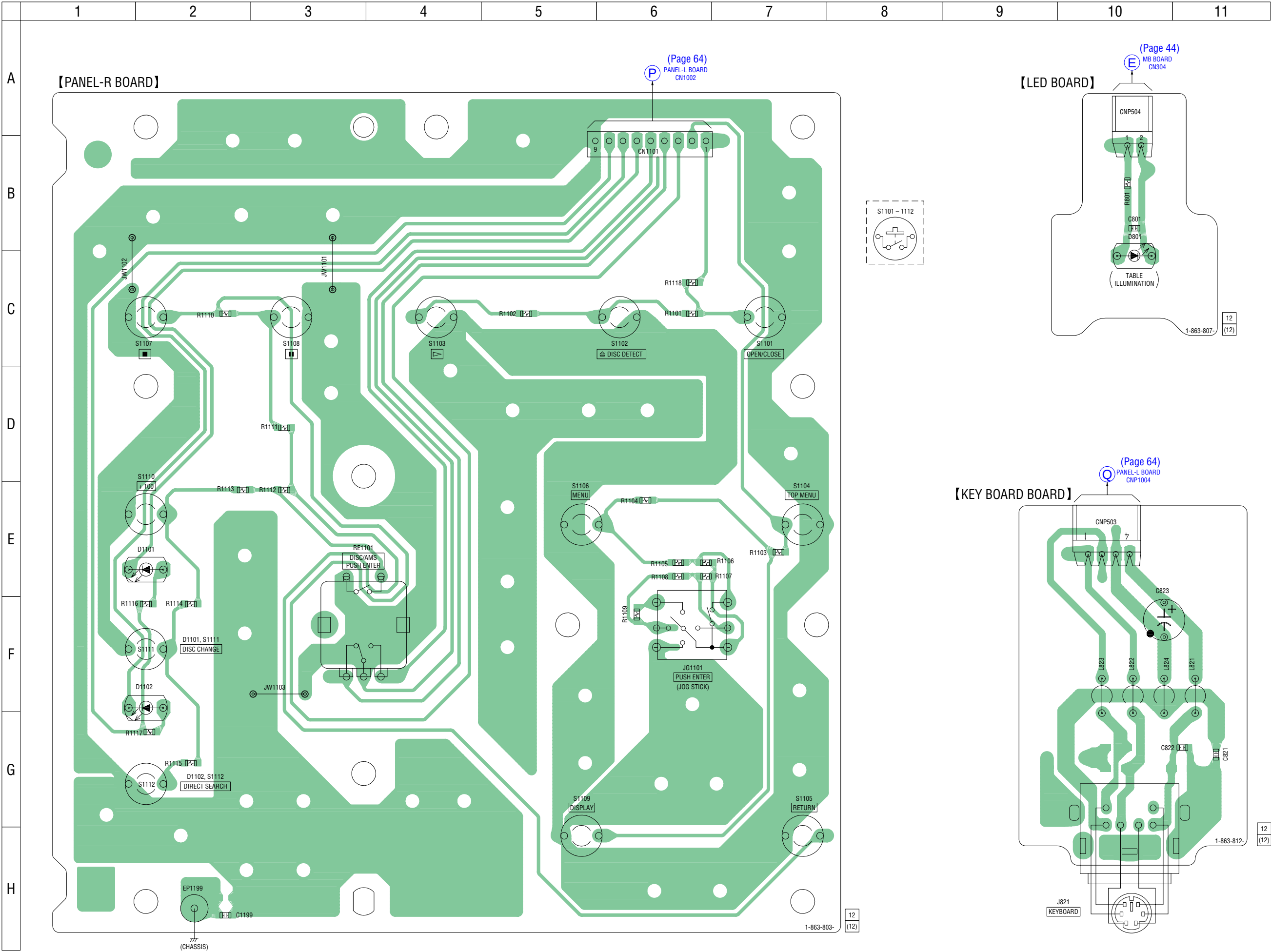
Ref. No.	Location
D1001	B-5
D1002	B-4
D1003	B-2
D1004	G-6
D1081	B-6
D1082	B-6
D1083	B-6
D1084	B-6
D1085	C-6
D1086	D-6
IC1001	E-4
IC1002	H-6
Q1001	C-5
Q1002	C-4
Q1003	C-2
Q1004	F-5
Q1006	C-2
Q1007	C-2
Q1008	G-6
Q1009	F-7
Q1010	E-5
Q1081	C-7
Q1082	C-7
Q1083	C-5



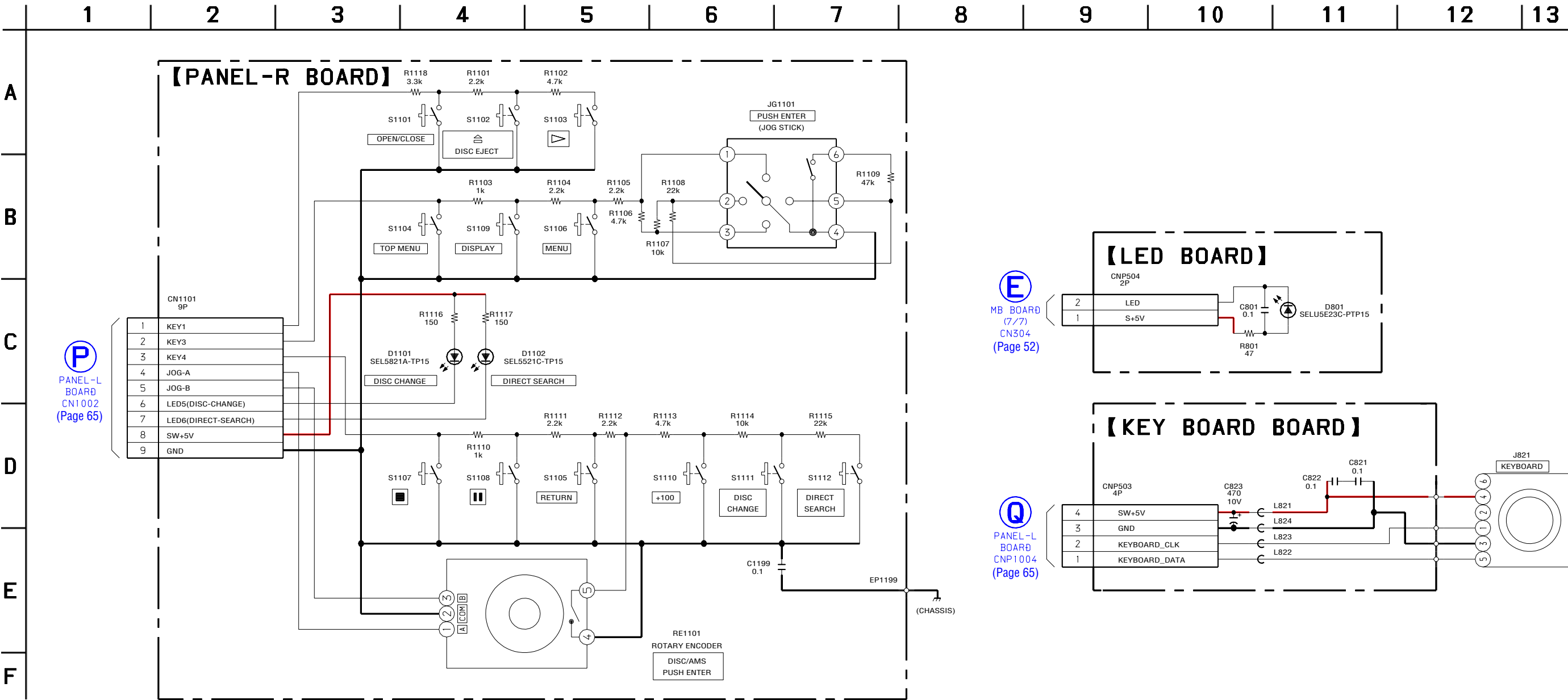
7-27. SCHEMATIC DIAGRAM – PANEL-L Board – • See page 68 for Waveforms. • See page 69 for IC Block Diagrams.



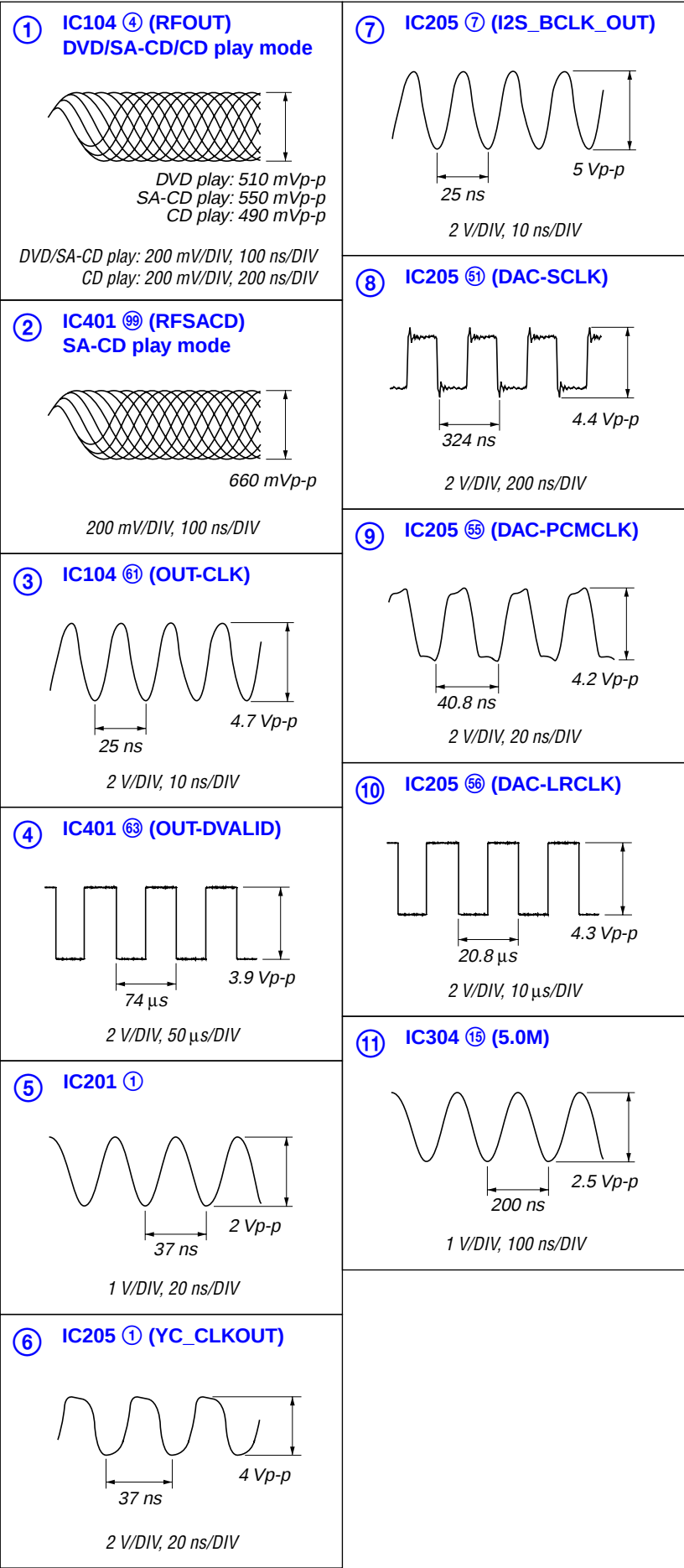
7-28. PRINTED WIRING BOARDS – PANEL-R Section – • See page 42 for Circuit Boards Location. : Uses unleaded solder.



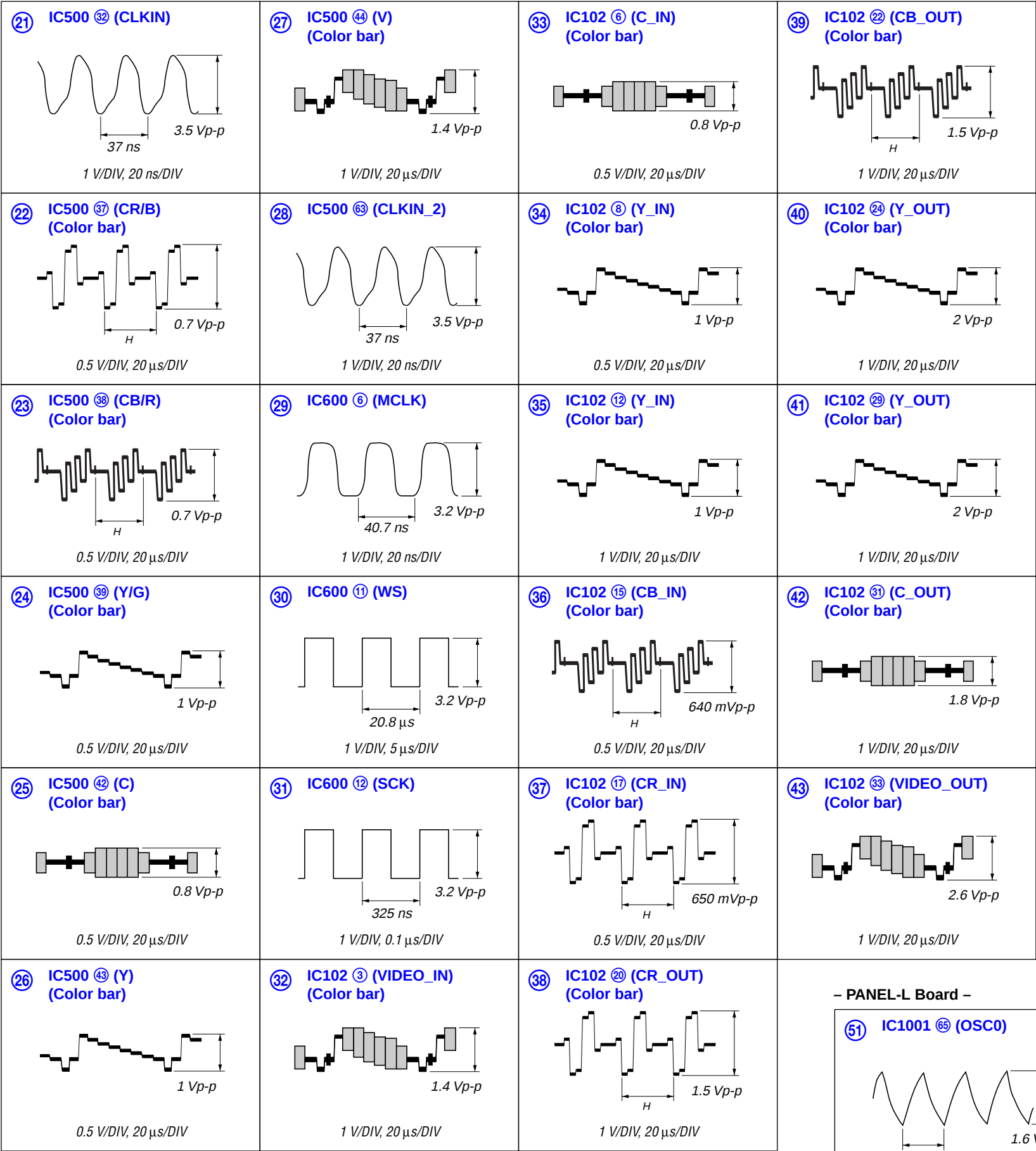
7-29. SCHEMATIC DIAGRAM – PANEL-R Section –



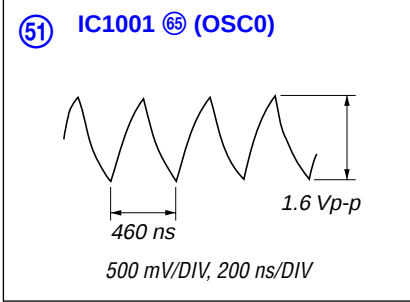
• Waveforms
– MB Board –



– AV Board –



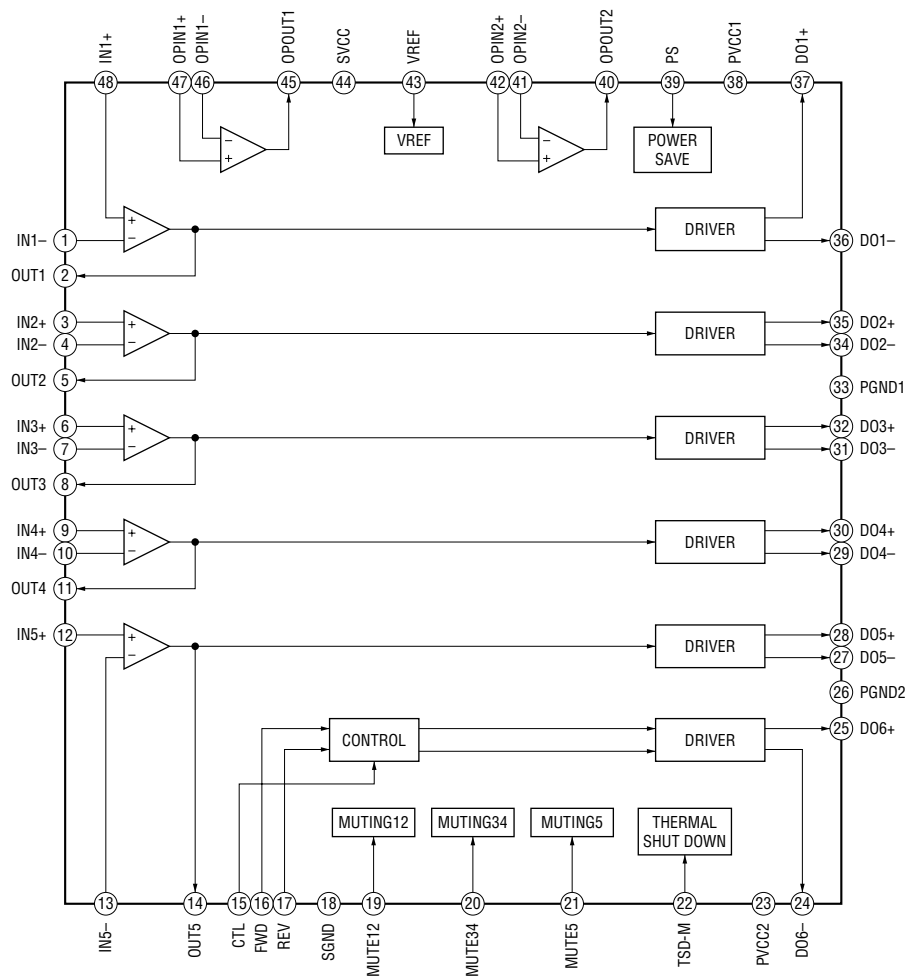
– PANEL-L Board –



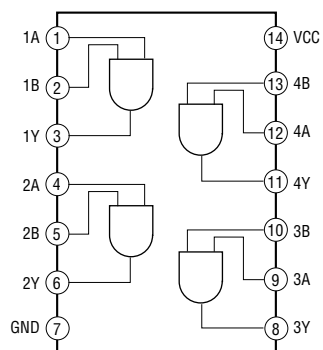
- IC Block Diagrams

– MB Board –

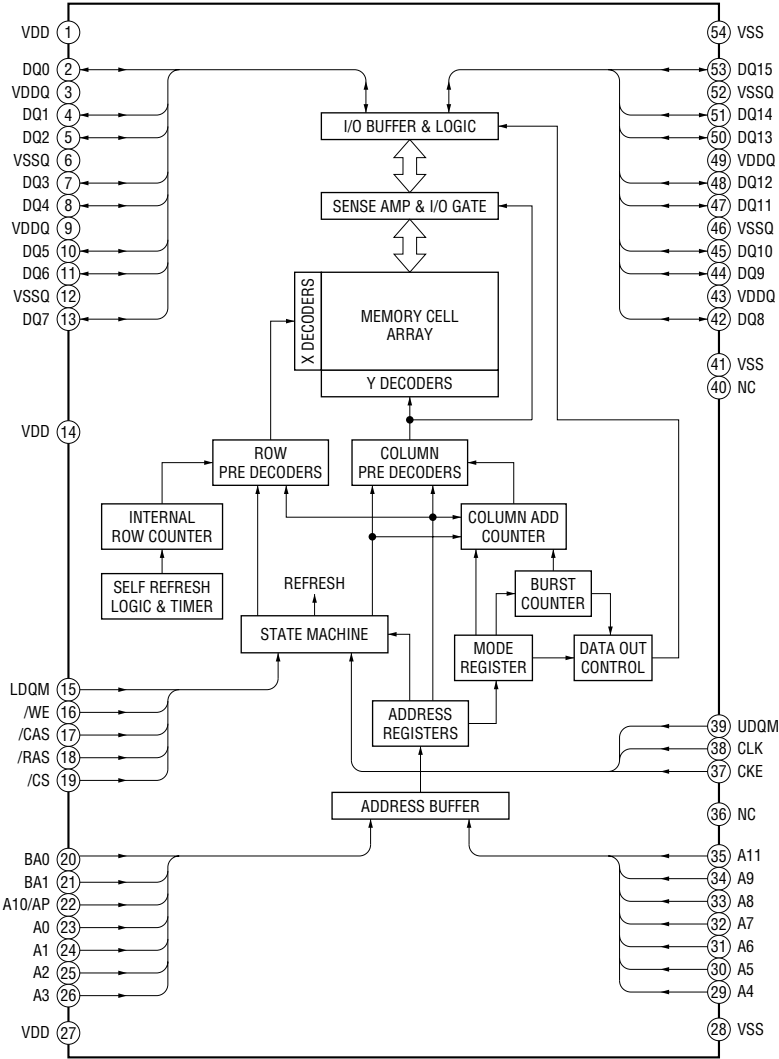
IC102 FAN8035L

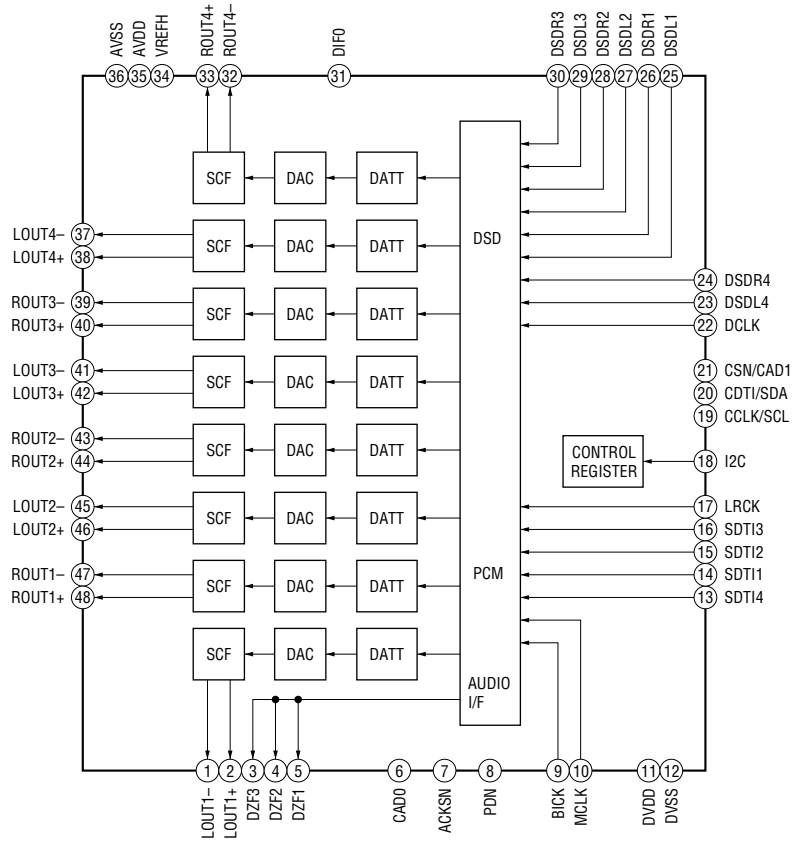
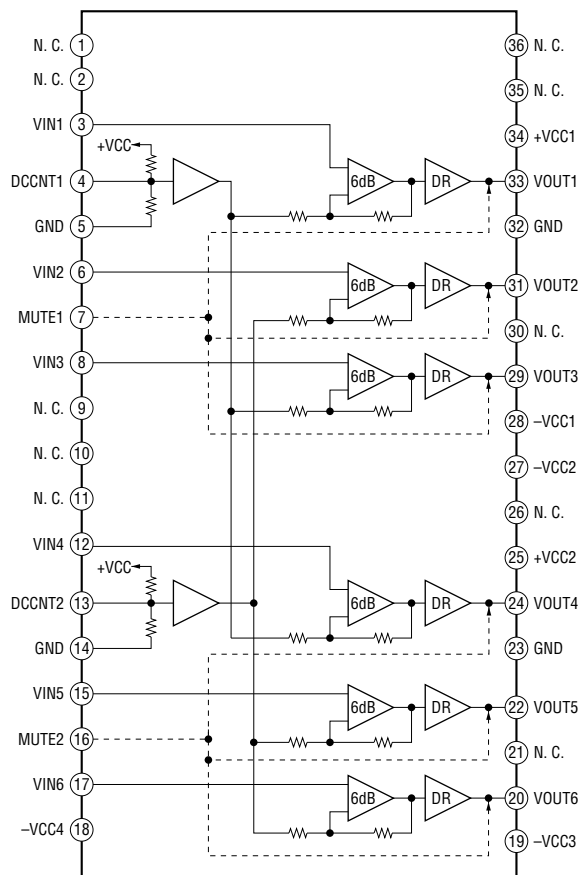
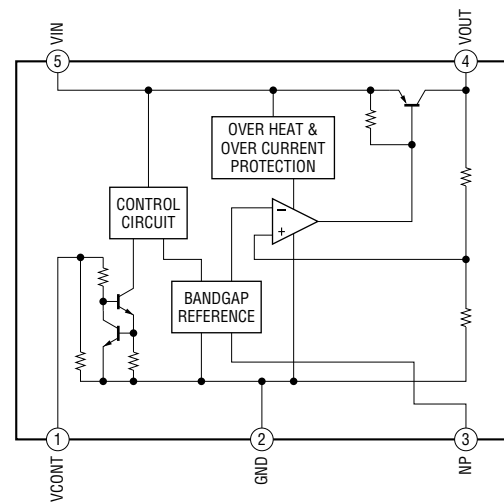


IC206 SN74LV08APWR

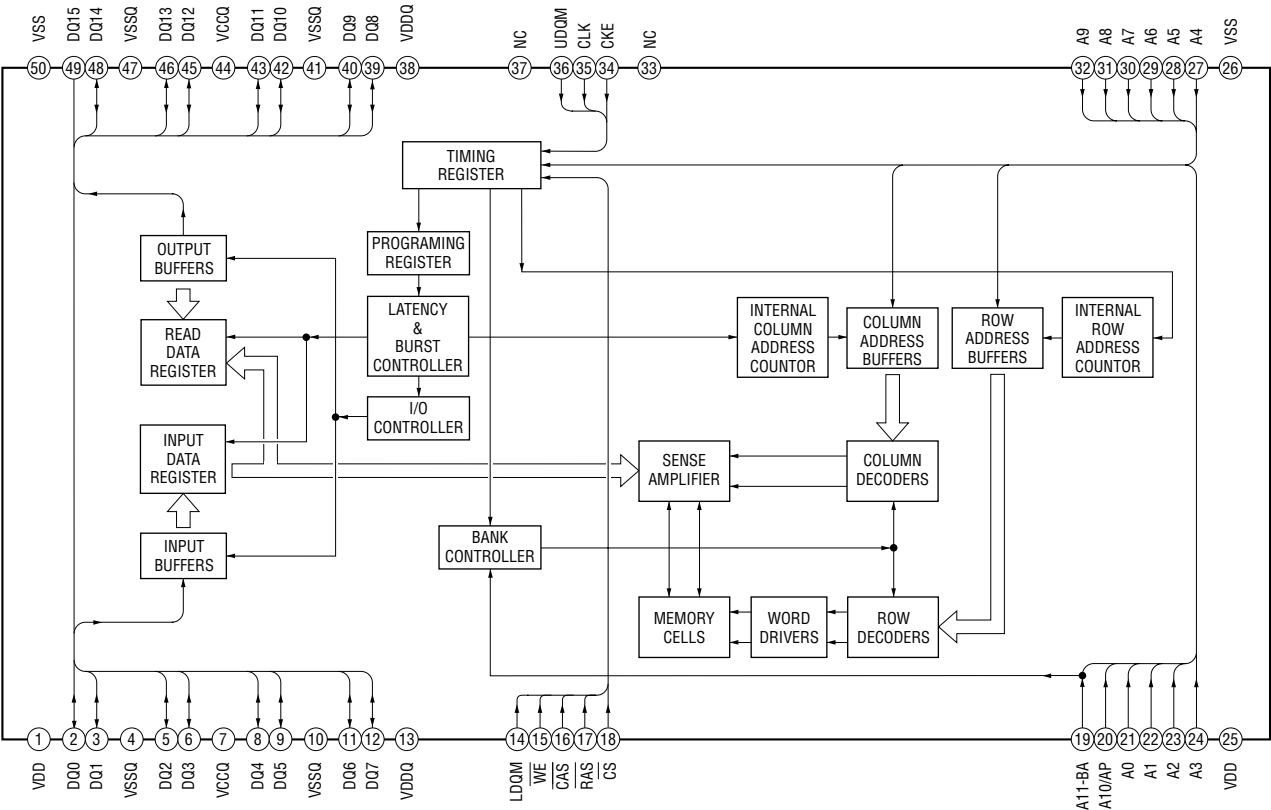


IC403 HY57V641620ETP-HDR

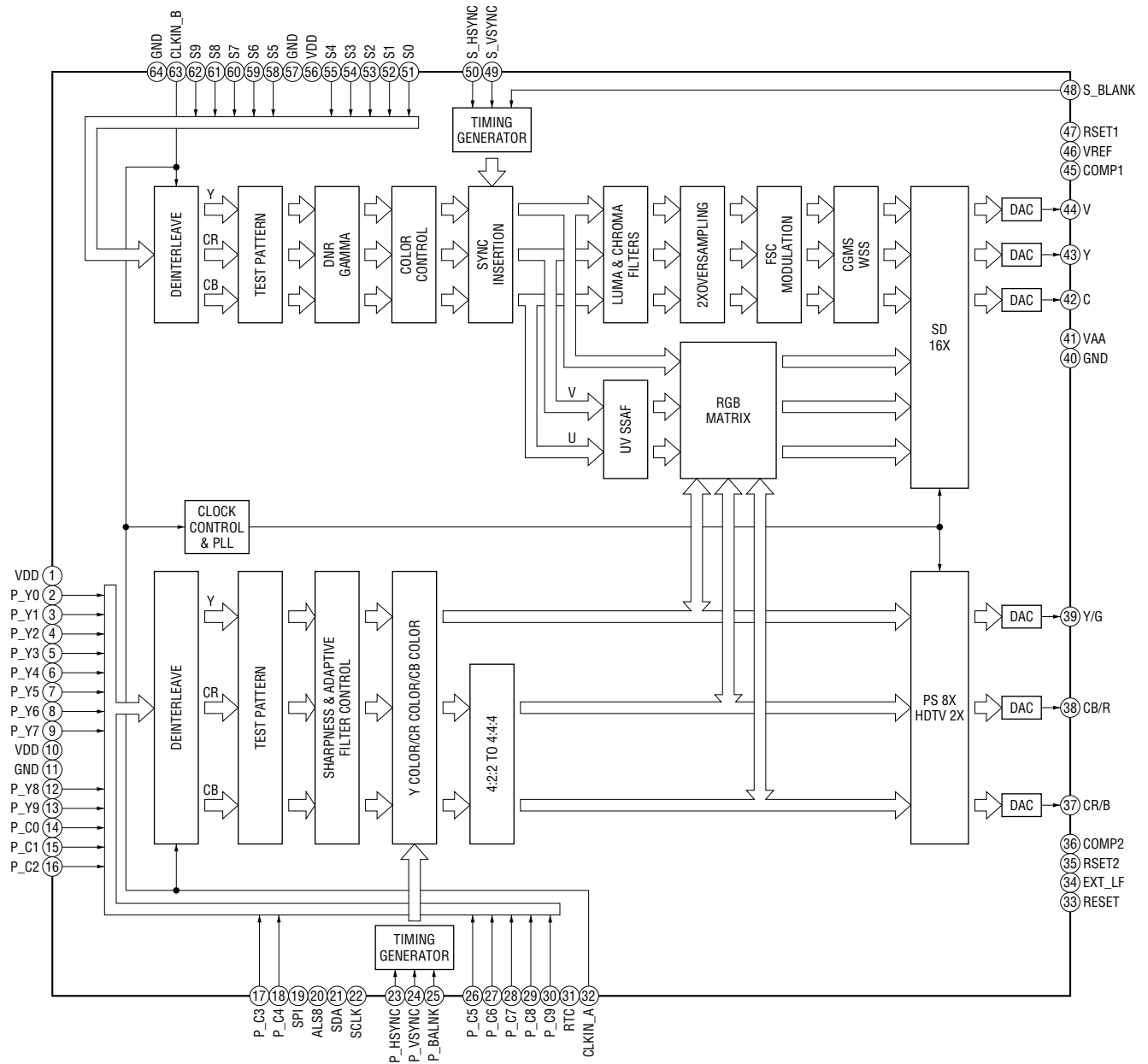


IC501 AK4358VQ-L**– AV Board –****IC102 LA73053-TLM-E****IC400, 601 TK1118CSCL-G**

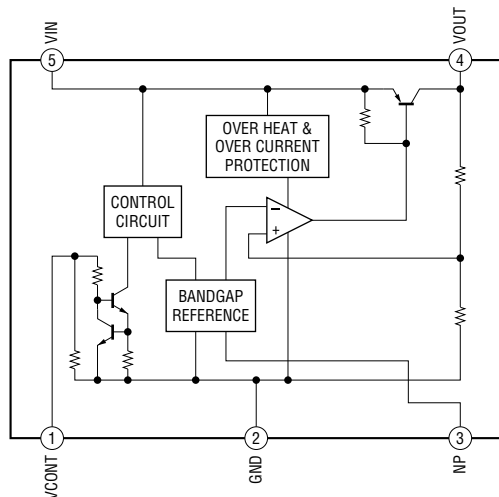
IC402 HY57V161610ETP-7DR



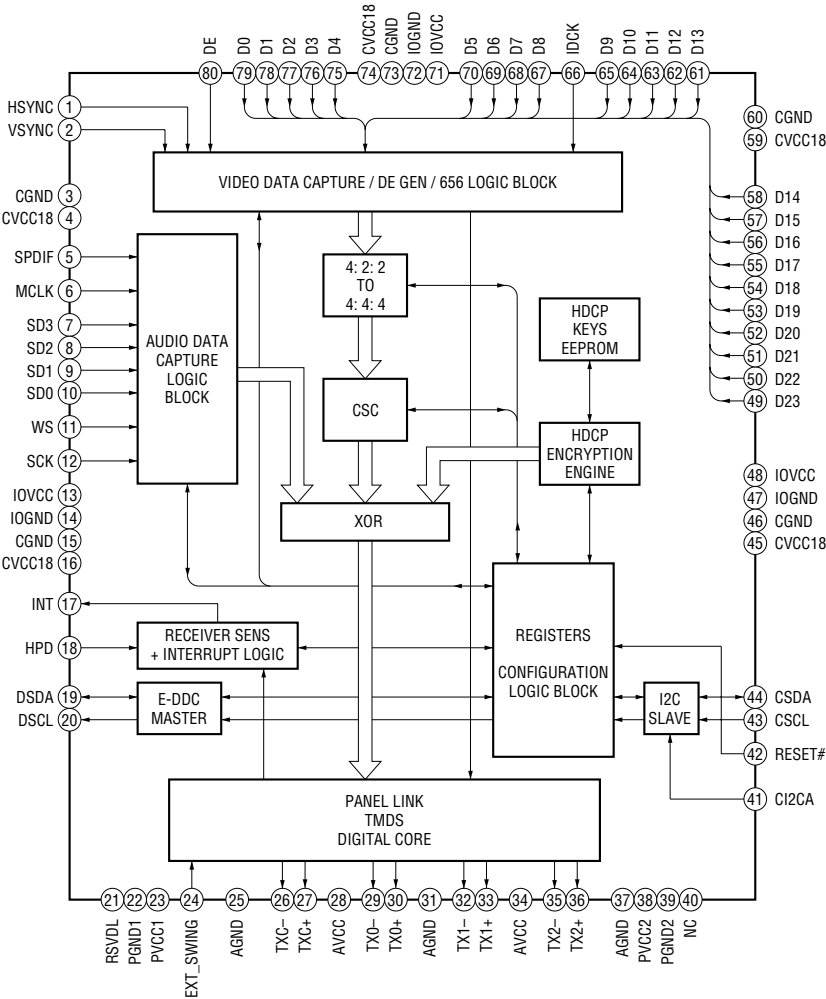
IC500 ADV7300AKST



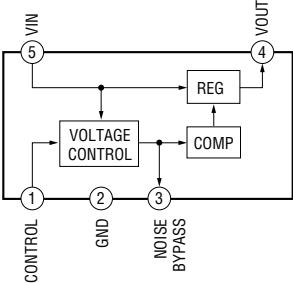
IC501 TK11125CSCL-G



IC600 SII9030CTU-1.1

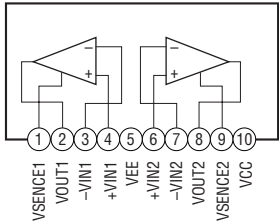


IC603 TK11150CSCL-G

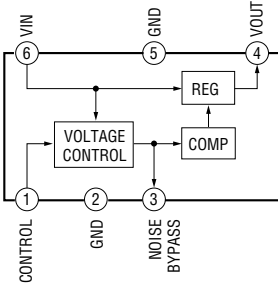


- DRIVER Board -

IC941, 961 LA6510

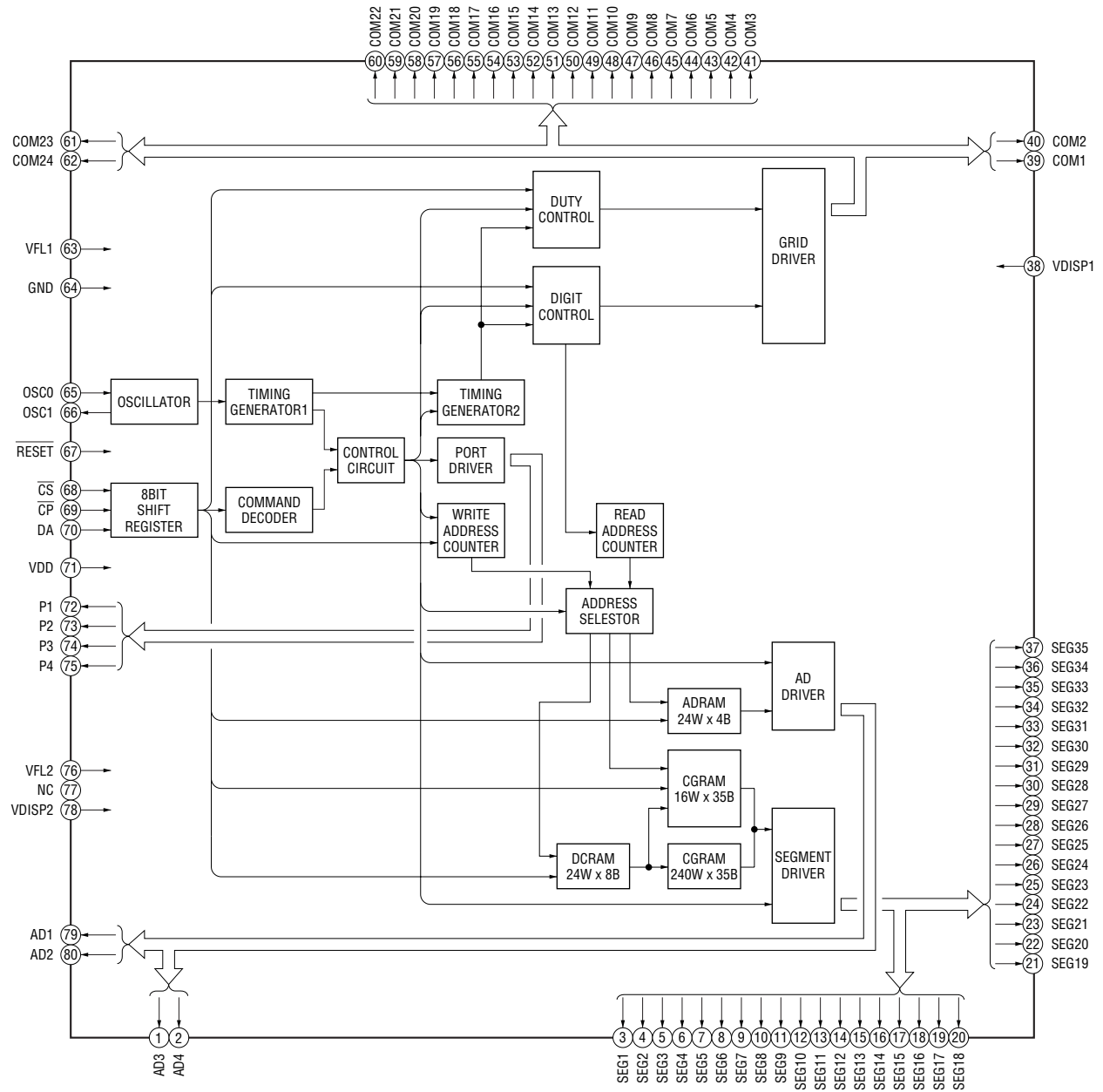


IC604 TK11133CSCL-G



- PANEL-L Board -

IC1001 MSM9201-04GS-K



• IC Pin Function Description

MB BOARD IC104 STE6317ATXXY (DVD INTERFACE)

Pin No.	Pin Name	I/O	Description
1	IREF	I	Connected to the ground
2	GNDAI	-	Ground terminal (analog system)
3	RFIN	I	RF path data input terminal (after AC coupling)
4	RFOUT	O	RF path data output terminal (before AC coupling)
5	VCC18	-	Power supply terminal (+1.8V) (analog system)
6	A	I	A signal input from the optical pick-up block
7	GNDMN	-	Ground terminal (analog system)
8	B	I	B signal input from the optical pick-up block
9	VCC33MN	-	Power supply terminal (+3.3V) (analog system)
10	REFD	O	Reference voltage output terminal (+2.1V) (for laser diode)
11	VCC18MN	-	Power supply terminal (+1.8V) (analog system)
12	D	I	D signal input from the optical pick-up block
13	VCC18IS	-	Power supply terminal (+1.8V) (analog system)
14	C	I	C signal input from the optical pick-up block
15	VCC33IS	-	Power supply terminal (+3.3V) (analog system)
16	GND AIS	-	Ground terminal (analog system)
17	VCC33SD	-	Power supply terminal (+3.3V) (analog system)
18	VCC18SD	-	Power supply terminal (+1.8V) (analog system)
19	GNDSD	-	Ground terminal
20	F	I	F signal input from the optical pick-up block
21	E	I	E signal input from the optical pick-up block
22	VSHIELDIS	-	Ground terminal (analog system)
23	VCC18ADC	-	Power supply terminal (+1.8V) (analog system)
24	GNDADC	-	Ground terminal (analog system)
25	VSHIELDADC	-	Ground terminal (analog system)
26	VCC33ADC	-	Power supply terminal (+3.3V) (analog system)
27	GNDDAC	-	Ground terminal (analog system)
28	DISC	O	Sled motor drive signal output terminal
29	SLED	O	Sled motor drive signal output terminal
30	REFEXT	I	Connected to the ground
31	REFGND	-	Ground terminal
32	REF	O	Reference voltage output terminal (+2.7V) (for D/A converter)
33	FACT	O	Focus coil drive signal output terminal
34	TACT	O	Tracking coil drive signal output terminal
35	VCC18DAC	-	Power supply terminal (+1.8V) (analog system)
36	MUTE_SP	O	Muting on/off control signal output to the spindle motor driver "L": muting on
37	MUTE_DRV	O	Muting on/off control signal output to the focus/tracking coil driver and sled motor driver "L": muting on
38, 39	FIN, RIN	O	Loading motor drive signal output terminal "L": motor off Not used
40	INSW	I	Disc tray close detection signal input terminal "L": Disc tray is closed Fixed at "L" in this set
41	VSS	-	Ground terminal (digital system)
42	VDD33	-	Power supply terminal (+3.3V) (digital system)
43	DVD/CD	O	DVD/CD selection signal output to the optical pick-up block "L": CD, "H": DVD
44	SP	O	Spindle motor drive PWM signal output terminal
45	INLIM	I	Limit in detection signal input from the optical pick-up block The optical pick-up is inner position when "H"

Pin No.	Pin Name	I/O	Description
46	OUTSW	I	Disc tray open detection signal input terminal "H": Disc tray is closed Fixed at "H" in this set
47	DGND	-	Ground terminal (digital system)
48	VDD18	-	Power supply terminal (+1.8V) (digital system)
49, 50	PD (6), PD (5)	O	Internal signal monitor output terminal Not used
51	DSPCLK	O	Internal signal monitor output terminal Not used
52	DSPDAT	O	Internal signal monitor output terminal Not used
53	DSPSTRB	O	Internal signal monitor output terminal Not used
54, 55	PD (1), PD (0)	O	Internal PDM signal monitor output terminal Not used
56	VSS	-	Ground terminal (digital system)
57	VDD33	-	Power supply terminal (+3.3V) (digital system)
58	OUT-ERR	O	Error signal output to the CPU
59	OUT-EVALID	O	Word clock signal output to the CPU
60	VSS	-	Ground terminal (digital system)
61	OUT-CLK	O	Bit clock signal output to the CPU
62	VDD18	-	Power supply terminal (+1.8V) (digital system)
63	OUT-DVALID	O	PCLK signal output to the CPU
64	OUT-DATA	O	Serial audio/video data output to the CPU
65	OUT-SYNC	O	Error signal and V4 signal output to the CPU
66	SCL	I	I2C bus clock signal input from the CPU
67	SDA	I/O	I2C two-way data bus with the CPU, interlace/progressive converter, video D/A converter and HDMI transmitter
68, 69	PE (3), PE (2)	-	Not used
70	SPDIR	I	Spindle motor rotation direction detection signal input from spindle motor driver "L": reverse direction, "H": forward direction
71	IRQ_FE	O	Interrupt request signal output to the CPU
72	VSS	-	Ground terminal (digital system)
73	VDD33	-	Power supply terminal (+3.3V) (digital system)
74	PF (1)	O	Internal signal monitor output terminal Not used
75	DSPSTRB2	O	Internal signal monitor output terminal Not used
76	VSS	-	Ground terminal (digital system)
77	VDD18	-	Power supply terminal (+1.8V) (digital system)
78	PG (1)	I	Boot mode selection mode signal input terminal "L": standalone mode, "H": EMU mode Fixed at "L" in this set
79	PG (0)	I	Boot mode selection mode signal input terminal "H": standalone/EMU mode Fixed at "H" in this set
80	TEST	I	Input terminal for the test
81	RESET_N	I	Reset signal input from the CPU "L": reset
82	VSSADC	-	Ground terminal (analog system)
83	VDD18ADC	-	Power supply terminal (+1.8V) (analog system)
84	GNDPLL	-	Ground terminal (analog system)
85	CKOUT	-	Not used
86	FREOUT	-	Not used
87	FREIN	O	27 MHz clock signal input terminal
88	VCC18PLL	-	Power supply terminal (+1.8V) (analog system)
89	LD1	O	Laser diode control signal (for DVD) output terminal
90	LD2	O	Laser diode control signal (for CD) output terminal
91	VCCA33	-	Power supply terminal (+3.3V) (analog system)

Pin No.	Pin Name	I/O	Description
92	TWINSEL	I	Connected to the ground
93, 94	LMD1, LMD2	I	Laser diode monitor input from the optical pick-up block
95	GNDL	-	Ground terminal (analog system)
96	TST-PM	O	Output terminal for the analog test
97	TST-SLICE	O	Output terminal for the analog test
98	TST-ADC	I	Not used
99	RFSACD	O	RF (for SACD) signal output to the SACD media player
100	VBGFILT	I	Connected to the ground through the capacitor

MB BOARD IC205 STE5588CVB (CPU)

Pin No.	Pin Name	I/O	Description
1	FUR_RST	O	Reset signal output to the SACD media player "L": reset
2	DAC-PCMOUT3	O	PCM audio data output to the D/A converter and HDMI transmitter
3	YC_CLKOUT	O	27 MHz clock signal output to the interlace/progressive converter
4	VDD3-3	-	Power supply terminal (+3.3V)
5	VSS	-	Ground terminal
6	I2S_DATA_OUT	O	I2S bus data output to the SACD media player
7	I2S_BCLK_OUT	O	I2S bus clock signal output to the SACD media player
8	I2S_BFLAG_OUT	O	I2S bus flag output to the SACD media player
9	VIDEO_RST	O	Reset signal output to the interlace/progressive converter, video D/A converter and HDMI transmitter "L": reset
10	RTS	I	UART flow control signal input terminal
11	BE_BUSY	O	Busy signal output to the system controller
12	CTS	O	UART flow control signal output terminal
13	CS	I	Chip select signal input from the system controller
14	VDD1-8	-	Power supply terminal (+1.8V)
15	VSS	-	Ground terminal
16	B-DATA	I	Serial audio/video data input from the DVD interface
17	B-BCLK	I	Bit clock signal input from the DVD interface
18	B-FLAG	I	PCLK signal input from the DVD interface
19	B-SYNC	I	Error signal input from the DVD interface
20	WCLK	I	Word clock signal input from the DVD interface
21	B-V4	I	V4 signal input from the DVD interface
22	ADAC_CS	O	Chip select signal output to the D/A converter
23	VDD-RGB	-	Power supply terminal Not used
24	VSS-RGB	-	Ground terminal
25	B-OUT	O	RGB (blue) signal output terminal Not used
26	G-OUT	O	RGB (green) signal output terminal Not used
27	R-OUT	O	RGB (red) signal output terminal Not used
28	V-REF-RG	-	Reference voltage terminal
29	I-REF-RG	-	Reference current terminal
30	VDD-YCC	-	Power supply terminal Not used
31	VSS-YCC	-	Ground terminal
32	Y-OUT	O	Y signal output terminal Not used
33	C-OUT	O	Chroma signal output terminal Not used
34	VC-OUT	O	Component video signal output terminal Not used
35	V-REF-YC	-	Reference voltage terminal
36	I-REF-YC	-	Reference current terminal
37	VDD1-8	-	Power supply terminal (+1.8V)
38	VSS	-	Ground terminal
39 to 46	YC0 to YC 7	O	Digital video signal output to the interlace/progressive converter
47	VDD3-3	-	Power supply terminal (+3.3V)
48	VDD-PCM	-	Power supply terminal (+1.8V)
49	VSS-PCM	-	Ground terminal
50	VSS	-	Ground terminal
51	DAC-SCLK	O	Bit clock signal output to the D/A converter

Pin No.	Pin Name	I/O	Description
52 to 54	DAC-PCMOUT0 to DAC-PCMOUT2	O	PCM audio data output to the D/A converter
55	DAC-PCMCLK	O	Master clock signal output to the SACD media player, D/A converter and HDMI transmitter
56	DAC-LRCLK	O	L/R sampling clock signal output to the D/A converter
57	SPDIF-OUT	O	SPDIF signal output to the digital out jack and HDMI transmitter
58 to 63	SMI-ADR (4) to SMI-ADR (9)	O	Address signal output to the SD-RAM
64	VDD1-8	-	Power supply terminal (+1.8V)
65	VSS	-	Ground terminal
66 to 69	SMI-ADR (3) to SMI-ADR (0)	O	Address signal output to the SD-RAM
70 to 73	SMI-ADR (10) to SMI-ADR (13)	O	Address signal output to the SD-RAM
74	SMI-CS (0)	O	Chip select signal output to the SD-RAM
75	SMI-CS (1)	O	Chip select signal output terminal Not used
76	SMI-RAS	O	Row address signal output to the SD-RAM
77	SMI-CAS	O	Column address signal output to the SD-RAM
78	SMI-WE	O	Write enable signal output to the SD-RAM
79	SMI-DQML	O	Write mask signal output to the SD-RAM (lower byte)
80	SMI-DQMU	O	Write mask signal output to the SD-RAM (upper byte)
81	VDD3-3	-	Power supply terminal (+3.3V)
82	SMI-CLKIN	I	133 MHz clock signal input terminal
83	VSS	-	Ground terminal
84 to 93	SMI-DATA (0) to SMI-DATA (9)	I/O	Two-way data bus with the SD-RAM
94	VDD1-8	-	Power supply terminal (+1.8V)
95	SMI-CLKOUT	O	133 MHz clock signal output to the SD-RAM
96	VSS	-	Ground terminal
97 to 102	SMI-DATA (10) to SMI-DATA (15)	I/O	Two-way data bus with the SD-RAM
103	TMODE_SW	I	Test mode on/off control signal input from the system controller "H": test mode on
104	+5V_CONT_B	O	Power on/off control signal output terminal for HDMI section (+5V) Not used
105	ADY_CS	O	Chip select signal output terminal Not used
106	ADC-PCMCLK	O	PCM clock signal output terminal Not used
107	VDD3-3	-	Power supply terminal (+3.3V)
108	VSS	-	Ground terminal
109	TRST	I	Reset signal input terminal (for JTAG)
110	TMS	I	Mode selection signal input terminal (for JTAG)
111	TDO	O	Data output terminal (for JTAG)
112	TDI	I	Data input terminal (for JTAG)
113	TCK	I	Clock signal input terminal (for JTAG)
114	ADY_BYPASS	O	Bypass signal output terminal Not used
115	BOOT_MODE	O	Boot mode selection signal output terminal Not used
116	WP	O	Write protect signal output terminal Not used
117	CPU-OE	O	Output enable signal output to the flash memories
118	CPU-PROCLK	O	Not used
119	VDD1-8	-	Power supply terminal (+1.8V)
120	PIX-CLK	I	27 MHz clock signal input terminal

Pin No.	Pin Name	I/O	Description
121	VSS	-	Ground terminal
122	VDD-PLL	-	Power supply terminal (+1.8V)
123	VSS-PLL	-	Ground terminal
124	RESET	I	Reset signal input from the system controller "L": reset
125	IRQ (2)	I	Interrupt request signal input from the SACD media player
126	IRQ (1)	I	Interrupt request signal input from the HDMI transmitter
127	IRQ (0)	I	Interrupt request signal input from the DVD interface
128	CPU-BE (0)	O	Write enable signal output to the flash memories
129	CPU-BE (1)	O	Write enable signal output terminal Not used
130	CPU-RW	O	Read/write selection signal output to the SACD media player "L": read, "H": write
131	CPU-WAIT	I	Chip wait signal input from the SACD media player
132	CPU-CE (3)	O	Chip enable signal output to the flash memory
133	CPU-CE (2)	O	Chip select signal output to the SACD media player
134	CPU-CE (1)	O	Chip enable signal output to the flash memory
135	CPU-CE (0)	O	Chip enable signal output terminal Not used
136	VDD3-3	-	Power supply terminal (+3.3V)
137	VSS	-	Ground terminal
138	CPU-RAS1	O	Row address signal output terminal Not used
139, 140	CPU-CAS0, CPU-CAS1	O	Column address signal output terminal Not used
141 to 148	CPU-DATA (0) to CPU-DATA (7)	I/O	Two-way data bus with the flash memories and SACD media player
149	VDD1-8	-	Power supply terminal (+1.8V)
150	VSS	-	Ground terminal
151 to 158	CPU-DATA (8) to CPU-DATA (15)	I/O	Two-way data bus with the flash memories and SACD media player
159	VDD3-3	-	Power supply terminal (+3.3V)
160	VSS	-	Ground terminal
161 to 167	CPU-ADR (1) to CPU-ADR (7)	O	Address signal output to the flash memories and SACD media player
168 to 170	CPU-ADR (8) to CPU-ADR (10)	O	Address signal output to the flash memories
171	VDD1-8	-	Power supply terminal (+1.8V)
172	VSS	-	Ground terminal
173 to 183	CPU-ADR (11) to CPU-ADR (21)	O	Address signal output to the flash memories
184	VDD3-3	-	Power supply terminal (+3.3V)
185	VSS	-	Ground terminal
186	FE_RST	O	Reset signal output to the DVD interface "L": reset
187	RSERROR	I	Error signal input from the DVD interface
188	A_MUTE	O	Audio muting on/off control signal output terminal "L": muting on
189	LETTER	O	Letter box control signal output terminal Not used
190	H_SCL_BP	O	I2C bus clock signal output terminal Not used
191	SQUEEZE	O	Squeeze control signal output terminal Not used
192	H_SDA_BP	I/O	I2C two-way data bus terminal Not used
193	I2S_SYNC_OUT	O	Sector sync signal or absolute time sync signal output to the SACD media player
194	BE_SDA	I/O	I2C two-way data bus with the DVD interface, interlace/progressive converter, video D/A converter and HDMI transmitter

Pin No.	Pin Name	I/O	Description
195	BE_SCL	O	I2C bus clock signal output to the DVD interface, interlace/progressive converter, video D/A converter and HDMI transmitter
196	I2S_WCLK_OUT	O	I2S bus word clock signal output to the SACD media player
197	IF_TXD	O	UART transmit data output to the system controller
198	VDD1-8	-	Power supply terminal (+1.8V)
199	VSS	-	Ground terminal
200	IF_RXD	I	UART receive data input from the system controller
201	FCNG_TXD	O	UART transmit data output for data writing to the flash memory
202	TRIGGER-IN	I	Trigger signal input terminal
203	TRIGGER-OUT	O	Trigger signal output terminal
204	ADAC_RESET	O	Reset signal output terminal Not used
205	FCNG_RXD	I	UART receive data input for data writing to the flash memory
206	SI	I	Serial data input terminal Not used
207	SO	O	Serial data output to the D/A converter
208	SCLK	O	Serial data transfer clock signal output to the D/A converter

MB BOARD IC304 uPD703260-YGF-S30-JBT-A (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1, 2	KEY1, KEY0	I	Front panel keys input terminal (A/D input)
3	AVDD	-	Power supply terminal (+3.3V)
4	AVSS	-	Ground terminal
5, 6	NC	O	Not used
7	AVREF	I	Reference voltage (+3.3V) input terminal
8	JOG_A	I	Jog dial pulse input from the rotary encoder (A phase input)
9	JOG_B	I	Jog dial pulse input from the rotary encoder (B phase input)
10	FLMD0	I	Flash memory data write mode control signal input terminal
11	VDD	-	Power supply terminal (+3.3V)
12	REGC	O	Connection terminal to the regulator capacitor
13	VSS	-	Ground terminal
14	5.0M	I	System clock input terminal (5 MHz)
15	5.0M	O	System clock output terminal (5 MHz)
16	RESET	I	System reset signal input from the reset signal generator "L": reset For several hundreds msec. after the power supply rises, "L" is input, then it change to "H"
17	GND	-	Ground terminal
18	OPEN	-	Not used
19	HDMI_RST	O	Reset signal output terminal Not used
20	KEY_INT	I	Wake up signal input from front panel keys or remote commander
21	232C_INT	I	Wake up signal input terminal for RS-232C Not used
22	DEBUGRST	O	Reset signal output terminal Not used
23	BE_CS	O	Chip select signal output to the CPU
24	SIN	I	Serial data input terminal when data writing to internal ROM Not used
25	SOUT	O	Serial data output terminal when data writing to internal ROM Not used
26	SCLK	I	Serial data transfer clock signal input terminal when data writing to internal ROM Not used
27	232COUT	O	Transmit data output terminal for RS-232C Not used
28	232CIN	I	Receive data input terminal for RS-232C Not used
29	DSSENS_OUT	O	Disc sensor signal output terminal for the adjustment
30	HH_OUT	O	Signal output terminal for the adjustment
31	SIRCS	I	Remote control signal input from the remote control receiver
32	NC	O	Not used
33	BE_BUSY	I	Busy signal input from the CPU
34	BE_RST	O	Reset signal output to the flash memories, CPU and D/A converter "L": reset
35	EVSS	-	Ground terminal
36	EVDD	-	Power supply terminal (+3.3V)
37	DDC_SDA	I/O	I2C data bus terminal Not used
38	DDC_SCL	O	I2C bus clock signal output terminal Not used
39	TBM+	O	Table motor drive signal output terminal "H": motor on
40	TBM-	O	Table motor drive signal output terminal "H": motor on
41 to 44	NC	O	Not used
45	BE_TXD	O	UART transmit data output to the CPU
46	BE_RXD	I	UART receive data input from the CPU
47	DRM+	O	Door motor drive signal output terminal "H": motor on
48	DRM-	O	Door motor drive signal output terminal "H": motor on
49	LDM+	O	Loading motor drive signal output terminal "H": motor on
50	LDM-	O	Loading motor drive signal output terminal "H": motor on

Pin No.	Pin Name	I/O	Description
51	PWM_CTRL	O	PWM control signal output terminal Not used
52	TSSENS1	I	Table address sensor signal (1) input terminal
53	TSSENS3	I	Table address sensor signal (3) input terminal
54	KBDIN	I	Keyboard data input terminal
55	VIDEO_OFF	O	Power on/off control signal output terminal for video section Not used
56	FLDSDATA	O	Serial data output to the FL driver
57	FLDSCLK	O	Serial data transfer clock signal output to the FL driver
58	KBCIN	I	Keyboard clock signal input terminal
59	TSSENS2	I	Table address sensor signal (2) input terminal
60	TSSENS4	I	Table address sensor signal (4) input terminal
61	FLDRST	O	Reset signal output to the FL driver "L": reset
62	FLDCS	O	Chip select signal output to the FL driver
63	FLHS	O	Output terminal for data writing to the flash memory
64	CLKOUT	O	Clock signal output terminal Not used
65	HDMI_INT	O	Interrupt request signal output terminal Not used
66	KBCOUT	O	Keyboard disable signal output terminal "H": stop
67	KBDOUT	O	Keyboard disable signal output terminal "H": stop
68	AMUTE	O	Audio muting on/off control signal output terminal "L": muting on
69	VMUTE	O	Video muting on/off control signal output to the video amplifier "L": muting on
70	P_CONT	O	Main power on/off control signal output terminal "H": power on
71	BVSS	-	Ground terminal
72	BVDD	-	Power supply terminal (+3.3V)
73	LED0	O	LED drive signal output for HDMI indicator "H": LED on
74	LED1	O	LED drive signal output for SA-CD indicator "H": LED on
75	LED2	O	LED drive signal output for MULTI CHANNEL indicator "H": LED on
76	LED3	O	LED drive signal output for FL OFF indicator "H": LED on
77	LED4	O	LED drive signal output terminal Not used
78	FLMD1	I	Flash memory data write mode control signal input terminal
79	LED7	O	LED drive signal output for table illumination "H": LED on
80	NC	O	Not used
81	FL_CTRL	O	Flash memory data write mode control signal output terminal
82	+5V_CONT	O	Power on/off control signal output terminal for HDMI section (+5V) Not used
83	TMODE_SW	O	Test mode on/off control signal output to the CPU "H": test mode on
84	TMODE_IN	I	Test mode on/off control signal input terminal "L": normal mode, "H": test mode Fixed at "L" in this set
85	NO_INIT	I	No initialize mode setting terminal for mechanism "L": normal mode, "H": No initialize mode (normally at "L")
86 to 88	NC	O	Not used
89	LED5	O	LED drive signal output for DISC CHANGE indicator "H": LED on
90	LED6	O	LED drive signal output for DISC SEARCH indicator "H": LED on
91	LD_SW	I	Loading in/out detect switch and table lock detect switch input terminal (A/D input)
92	DR_SW	I	Door open/close detect switch and pop up/down detect switch input terminal (A/D input)
93	SIRCS MODE	I	Remote commander category code selection signal input terminal Not used
94	DSSENS_IN	I	Disc sensor analog signal input terminal
95	PON_CHECK	I	+3.3V voltage monitor input terminal
96	MODEL_SEL	I	Model setting terminal Fixed at "L" in this set
97	SELF_CHECK	I	Self-diagnosis mode selection signal input terminal (normally at "H")
98 to 100	KEY4 to KEY2	I	Front panel keys input terminal (A/D input)

MB BOARD IC401 SAA7893HL (SACD MEDIA PLAYER)

Pin No.	Pin Name	I/O	Description
1	H_A1	I	Address signal input from the CPU
2, 3	H_DQ15, H_DQ14	I/O	Two-way data bus with the CPU
4	GND_IO1	-	Ground terminal
5 to 9	H_DQ13 to H_DQ9	I/O	Two-way data bus with the CPU
10	VCC_IO1	-	Power supply terminal (+3.3V)
11 to 16	H_DQ8 to H_DQ3	I/O	Two-way data bus with the CPU
17	GND_IO2	-	Ground terminal
18	H_PROCCLOCK	I	27MHz clock signal input terminal
19	VCC_CORE1	-	Power supply terminal (+1.8V)
20	GND_CORE1	-	Ground terminal
21	SYS_CLK	I	27MHz clock signal input terminal
22, 23	H_DQ2, H_DQ1	I/O	Two-way data bus with the CPU
24	H_CSN	I	Chip select signal input from the CPU
25	H_DQ0	I/O	Two-way data bus with the CPU
26	H_RWN	I	Read/write selection signal input from the CPU "L": read, "H": write
27	H_WAIT	O	Chip wait signal output to the CPU
28	H_IRQN	O	Interrupt request signal output to the CPU
29	AUD_CLK	I	Master clock signal input from the CPU
30	PCM_DCLK_IN	I	PCM data clock input terminal Not used
31	PCM_WCLK_IN	I	PCM word clock input terminal Not used
32	VDDA	-	Power supply terminal (+1.8V)
33	VSSA	-	Ground terminal
34	BIASIN	I	Bias current input terminal
35	AGCINP	I	RF (for SACD) signal input from the DVD interface
36	ADCREFL	I	ADC decoupling terminal
37	VCC_IO7	-	Power supply terminal (+3.3V)
38	GND_IO7	-	Ground terminal
39	PCM_CELF_IN	I	PCM data (for center or LFE) input terminal Not used
40	PCM_LERI_IN	I	PCM data (for L-ch or R-ch) input terminal Not used
41	PCM_LSRS_IN	I	PCM data (for surround L-ch or surround R-ch) input terminal Not used
42	B_FLAG/SERR	I	I2S bus flag input from the CPU
43	B_SYNC/SYNC	I	Sector sync signal or absolute time sync signal input from the CPU
44	B_WCLK/SENB	I	I2S bus word clock signal input from the CPU
45	B_DATA/BE_DAT0	I	I2S bus data input from the CPU
46	B_BCLK/SDCLK	I	I2S bus clock signal input from the CPU
47	UDE_REQ	I	Request signal input terminal Not used
48	DATA_REQ	O	Request signal output terminal Not used
49 to 55	BE_DAT1 to BE_DAT7	I	Parallel data input terminal Not used
56	TRST	I	Reset signal input terminal (for JTAG)
57	TMS	I	Mode selection signal input terminal (for JTAG)
58	VCC_IO2	-	Power supply terminal (+3.3V)
59	TDO	O	Data output terminal (for JTAG)
60	TDI	I	Data input terminal (for JTAG)
61	TCK	I	Clock signal input terminal (for JTAG)
62	H_SEL0	I	Host selection signal input terminal Fixed at "L" in this set

Pin No.	Pin Name	I/O	Description
63	H_SEL1	I	Host selection signal input terminal Fixed at "H" in this set
64 to 68	D_ADDR1 to D_ADDR5	O	Address signal output to the SD-RAM
69	GND_IO3	-	Ground terminal
70 to 75	D_ADDR0, D_ADDR6 to D_ADDR8, D_ADDR10, D_ADDR13	O	Address signal output to the SD-RAM
76	VCC_IO3	-	Power supply terminal (+3.3V)
77 to 79	D_ADDR9, D_ADDR11, D_ADDR12	O	Address signal output to the SD-RAM
80	D_WEN	O	Write enable signal output to the SD-RAM
81	D_RASN	O	Row address signal output to the SD-RAM
82	D_CASN	O	Column address signal output to the SD-RAM
83	GND_IO4	-	Ground terminal
84	GND_CORE2	-	Ground terminal
85	VCC_CORE2	-	Power supply terminal (+1.8V)
86	D_CLK	O	Clock signal output to the SD-RAM
87	D_DQ5	I/O	Two-way data bus with the SD-RAM
88	D_UDQM	O	Write mask signal output to the SD-RAM (upper byte)
89	D_LDQM	O	Write mask signal output to the SD-RAM (lower byte)
90, 91	D_DQ7, D_DQ8	I/O	Two-way data bus with the SD-RAM
92	VCC_IO4	-	Power supply terminal (+3.3V)
93 to 98	D_DQ4, D_DQ6, D_DQ9 to D_DQ11	I/O	Two-way data bus with the SD-RAM
99	GND_IO5	-	Ground terminal
100 to 105	D_DQ0 to D_DQ2, D_DQ12 to D_DQ14	I/O	Two-way data bus with the SD-RAM
106	VCC_IO5	-	Power supply terminal (+3.3V)
107	D_DQ15	I/O	Two-way data bus with the SD-RAM
108	DSD_PCM_0	O	DSD data (for front L-ch) output to the D/A converter
109	DSD_PCM_1	O	DSD data (for front R-ch) output to the D/A converter
110	DSD_PCM_2	O	DSD data (for center) output to the D/A converter
111	DSD_PCM_3	O	DSD data (for woofer) output to the D/A converter
112	GND_IO5	-	Ground terminal
113	DSD_PCM_4	O	DSD data (for rear L-ch) output to the D/A converter
114	DSD_PCM_5	O	DSD data (for rear R-ch) output to the D/A converter
115, 116	DSD_PCM_6, DSD_PCM_7	O	DSD data output terminal Not used
117	DSD_PCM_8	O	DSD clock signal output to the D/A converter
118	VCC_IO6	-	Power supply terminal (+3.3V)
119	DSD_PCM_10	O	DSD data output terminal Not used
120	DSD_PCM_9	O	DSD data (for R-ch) output to the D/A converter
121	DSD_PCM_11	O	DSD data (for L-ch) output to the D/A converter
122	RESETN	I	Reset signal input from the CPU "L": reset
123	H_A_SEL	I	Address signal input from the CPU
124 to 128	H_A6 to H_A2	I	Address signal input from the CPU

AV BOARD IC401 CXD9866R (INTERLACE/PROGRESSIVE CONVERTER)

Pin No.	Pin Name	I/O	Description
1 to 3	TEST0 to TEST2	I	Input terminal for the test
4	ALSB	I	I2C slave address setting terminal
5	SDA	I/O	I2C two-way data bus with the DVD interface, CPU, video D/A converter and HDMI transmitter
6	SCL	I	I2C bus clock signal input from the CPU
7	TEST3	I	Input terminal for the test
8	NRST	I	Reset signal input from the CPU "L": reset
9	TEST4	I	Input terminal for the test
10	CLKI	I	27 MHz clock signal input from the CPU
11	TEST5	I	Input terminal for the test
12	AVS1	-	Ground terminal (analog system)
13	AVD1	-	Power supply terminal (+3.3V) (analog system)
14	CPO	O	Charge pump output terminal
15	VCI	I	VCO input terminal
16	AVS2	-	Ground terminal (analog system)
17	AVD2	-	Power supply terminal (+3.3V) (analog system)
18	NTEST	I	Input terminal for the test
19	VI	I	Vertical synchronize signal input terminal Not used
20	HI	I	Horizontal synchronize signal input terminal Not used
21, 22	SI0, SI1	I	Digital video signal input terminal Not used
23 to 30	SI2 to SI9	I	Digital video signal input from the CPU
31	VSS	-	Ground terminal (digital system)
32	VDDI	-	Power supply terminal (+1.8V) (for core)
33	VDDE	-	Power supply terminal (+3.3V) (for I/O)
34 to 43	CO9 to CO0	O	CB (component video) and CR (component video) signal output to the video D/A converter
44	VSS	-	Ground terminal (digital system)
45	VDDI	-	Power supply terminal (+1.8V) (for core)
46	VDDE	-	Power supply terminal (+3.3V) (for I/O)
47 to 56	YO9 to YO0	O	Y (component video) signal output to the video D/A converter
57	VSS	-	Ground terminal (digital system)
58	VDDI	-	Power supply terminal (+1.8V) (for core)
59	CLKO	O	27 MHz clock signal output to the video D/A converter
60	VDDE	-	Power supply terminal (+3.3V) (for I/O)
61 to 70	SO9 to SO0	O	Video signal output to the video D/A converter
71	TEST6	I	Input terminal for the test
72	HO	O	Horizontal synchronize signal output terminal Not used
73	VO	O	Vertical synchronize signal output terminal Not used
74	FILM	O	Film detection flag output terminal Not used
75	VDDI	-	Power supply terminal (+1.8V) (for core)
76	VSS	-	Ground terminal (digital system)
77	VDDE	-	Power supply terminal (+3.3V) (for I/O)
78	AVSP	-	Ground terminal (analog system)
79	AVDP	-	Power supply terminal (+3.3V) (analog system)
80	VSS	-	Ground terminal (digital system)
81	VDDE	-	Power supply terminal (+3.3V) (for I/O)
82	VDDI	-	Power supply terminal (+1.8V) (for core)

Pin No.	Pin Name	I/O	Description
83	MCLK	O	108 MHz clock signal output to the SD-RAM
84	VSS	-	Ground terminal (digital system)
85 to 88	MD19 to MD16	I/O	Two-way data bus terminal Not used
89	VDDI	-	Power supply terminal (+1.8V) (for core)
90	VSS	-	Ground terminal (digital system)
91	VDDE	-	Power supply terminal (+3.3V) (for I/O)
92 to 98	MA0 to MA6	O	Address signal output to the SD-RAM
99	VDDE	-	Power supply terminal (+3.3V) (for I/O)
100	VSS	-	Ground terminal (digital system)
101 to 105	MA7 to MA11	O	Address signal output to the SD-RAM
106	RAS	O	Row address signal output to the SD-RAM
107	DQM	O	Write mask signal output to the SD-RAM
108	CAS	O	Column address signal output to the SD-RAM
109	WE	O	Write enable signal output to the SD-RAM
110	VDDE	-	Power supply terminal (+3.3V) (for I/O)
111	VSS	-	Ground terminal (digital system)
112	VDDI	-	Power supply terminal (+1.8V) (for core)
113 to 120	MD4 to MD11	I/O	Two-way data bus with the SD-RAM
121	VDDE	-	Power supply terminal (+3.3V) (for I/O)
122	VSS	-	Ground terminal (digital system)
123 to 130	MD0 to MD3, MD12 to MD15	I/O	Two-way data bus with the SD-RAM
131	VDDI	-	Power supply terminal (+1.8V) (for core)
132	VSS	-	Ground terminal (digital system)
133	VDDE	-	Power supply terminal (+3.3V) (for I/O)
134	QV	O	Vertical synchronize signal output to the HDMI transmitter
135	QH	O	Horizontal synchronize signal output to the HDMI transmitter
136	QDE	O	Data enable signal output to the HDMI transmitter
137	VSS	-	Ground terminal (digital system)
138 to 141	QB0 to QB3	O	RGB (blue) signal output to the HDMI transmitter
142	VDDE	-	Power supply terminal (+3.3V) (for I/O)
143 to 146	QB4 to QB7	O	RGB (blue) signal output to the HDMI transmitter
147	VSS	-	Ground terminal (digital system)
148	QCLK	O	Clock signal output to the HDMI transmitter
149	VDDI	-	Power supply terminal (+1.8V) (for core)
150	VDDE	-	Power supply terminal (+3.3V) (for I/O)
151 to 154	QG0 to QG3	O	RGB (green) signal output to the HDMI transmitter
155	VSS	-	Ground terminal (digital system)
156	VDDE	-	Power supply terminal (+3.3V) (for I/O)
157 to 160	QG4 to QG7	O	RGB (green) signal output to the HDMI transmitter
161	VDDI	-	Power supply terminal (+1.8V) (for core)
162	VSS	-	Ground terminal (digital system)
163	VDDE	-	Power supply terminal (+3.3V) (for I/O)
164 to 167	QR0 to QR3	O	RGB (red) signal output to the HDMI transmitter
168	VSS	-	Ground terminal (digital system)
169	VDDE	-	Power supply terminal (+3.3V) (for I/O)
170 to 173	QR4 to QR7	O	RGB (red) signal output to the HDMI transmitter

Pin No.	Pin Name	I/O	Description
174	VDDI	-	Power supply terminal (+1.8V) (for core)
175	VDDE	-	Power supply terminal (+3.3V) (for I/O)
176	VSS	-	Ground terminal (digital system)

SECTION 8

- -XX and -X mean standardized parts, so they may have some difference from the original one.

- Example:

KNOB, BALANCE (WHITE) . . . (RED)

Parts Color	Cabinet's Color
-------------	-----------------

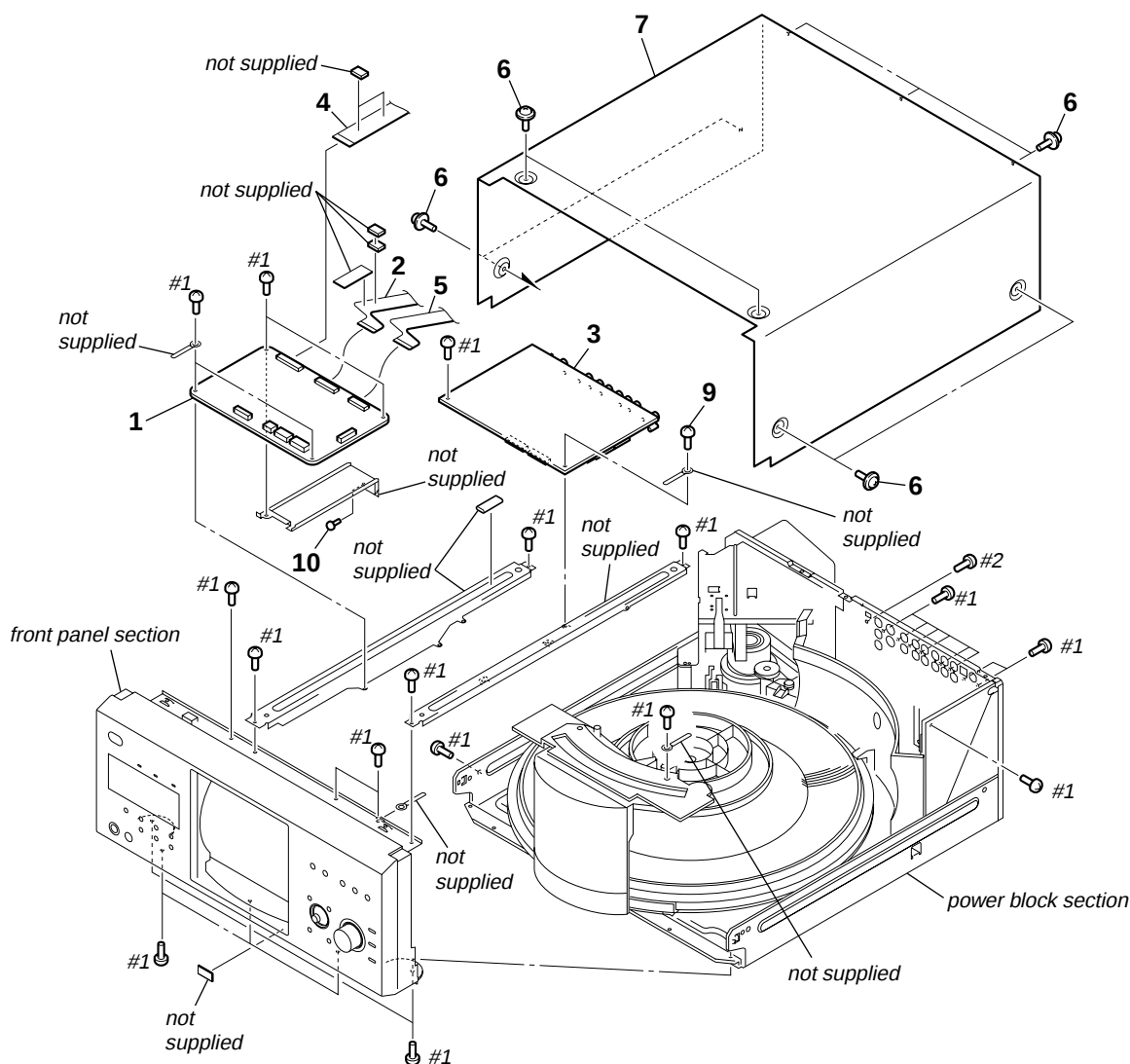
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Accessories are given in the last of the electrical parts list.

The components identified by mark  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.

8-1. OVERALL SECTION

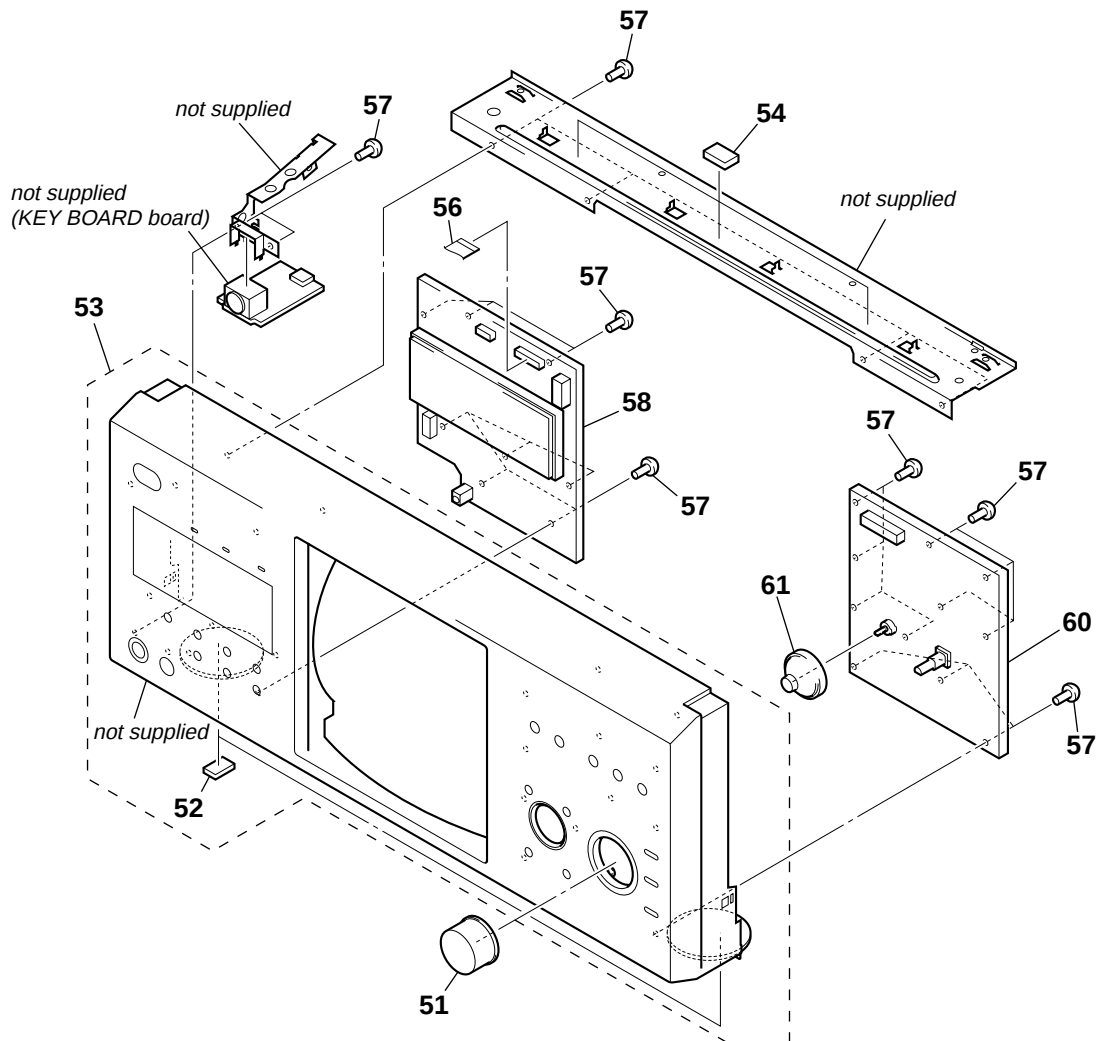


<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
1	A-1132-163-A	MB BOARD, COMPLETE	
2	1-830-199-11	WIRE, FLAT TYPE (33 CORE)	
◇ 3	A-1126-999-A	AV BOARD, COMPLETE (for SERVICE)	
4	1-830-198-11	WIRE, FLAT TYPE (31 CORE)	
5	1-830-200-11	WIRE, FLAT TYPE (29 CORE)	
6	3-363-099-02	SCREW (CASE 3 TP2)	

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
7	4-246-970-11	CASE	
9	3-077-331-21	+BV3 (3-CR)	
10	3-531-576-01	RIVET	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
#2	7-685-872-09	SCREW +BVTT 3X8 (S)	

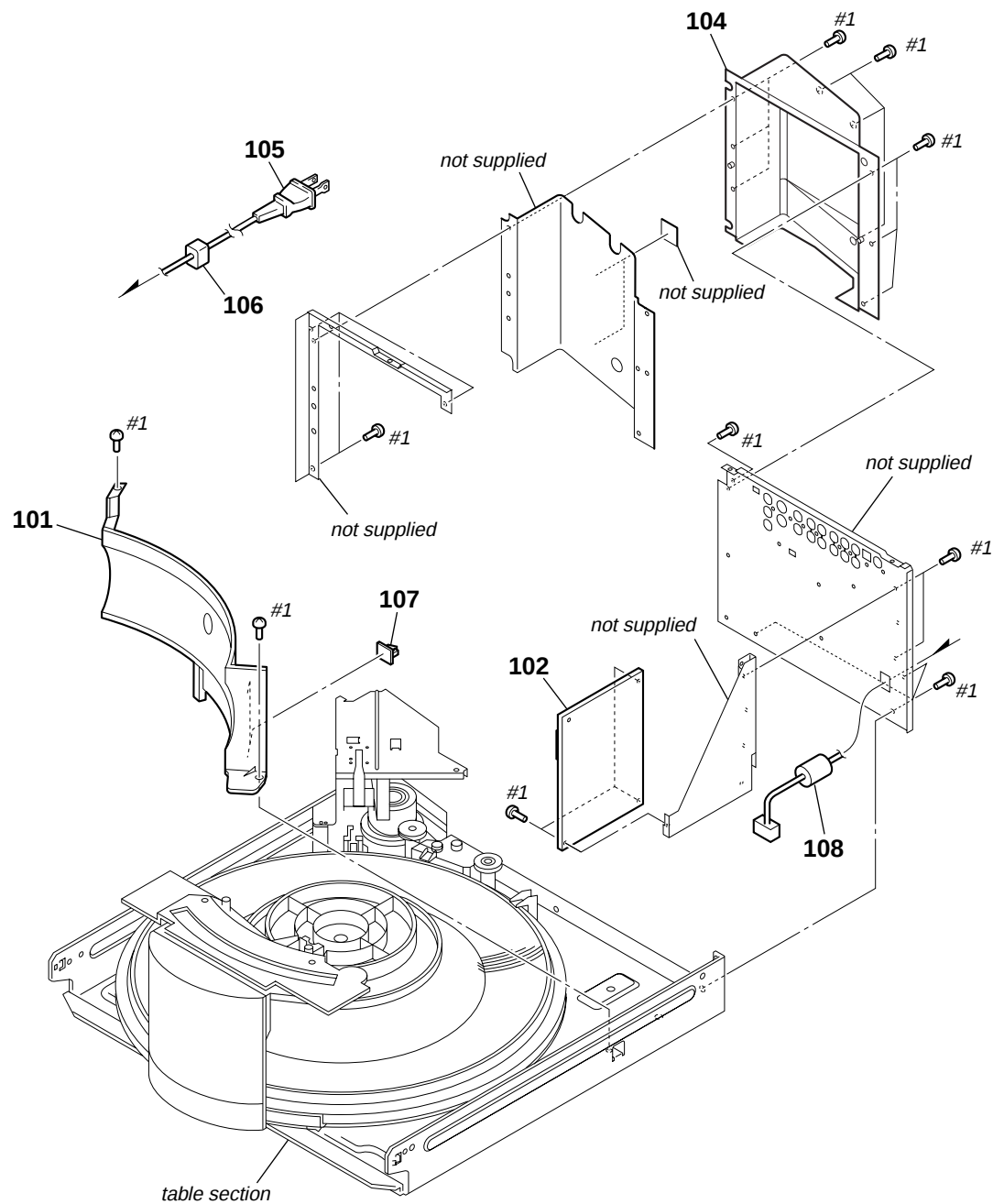
◇ Please refer to “NOTE OF HANDLING THE AV BOARD (Part No. A-1126-999-A)” on the service note (Page 4) for handling of this board.

8-2. FRONT PANEL SECTION



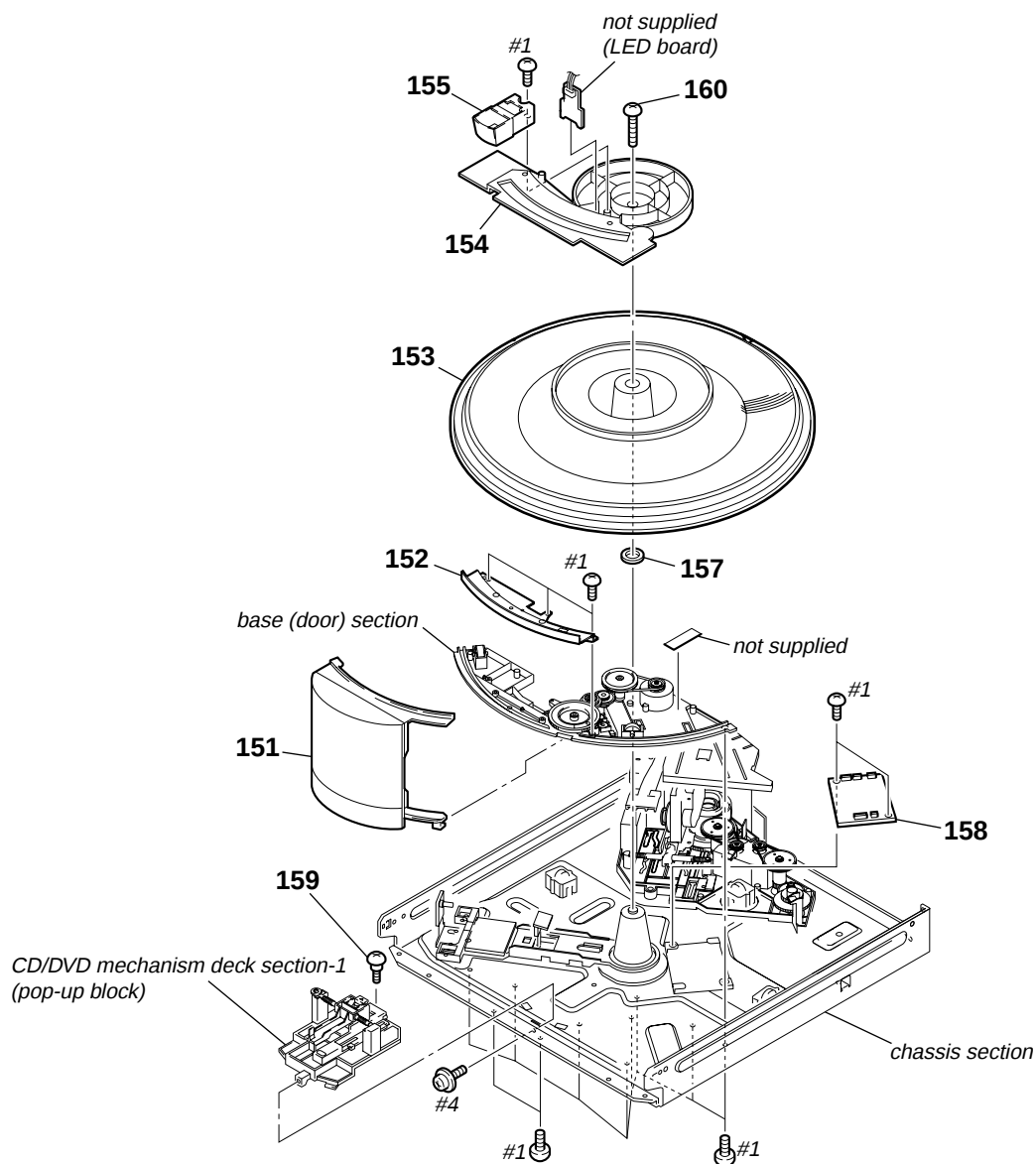
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	4-246-979-01	KNOB (AMS)		57	3-087-053-01	+BVTP2.6 (3CR)	
52	4-977-358-01	CUSHION		58	A-1076-700-A	PANEL-L BOARD, COMPLETE	
53	X-2023-793-1	PANEL ASSY, FRONT		60	A-1076-688-A	PANEL-R BOARD, COMPLETE	
54	4-985-553-21	CUSHION		61	X-2055-398-1	KNOB (CUR) ASSY	
56	1-828-394-11	WIRE (FLAT TYPE) (25 CORE)					

8-3. POWER BLOCK SECTION



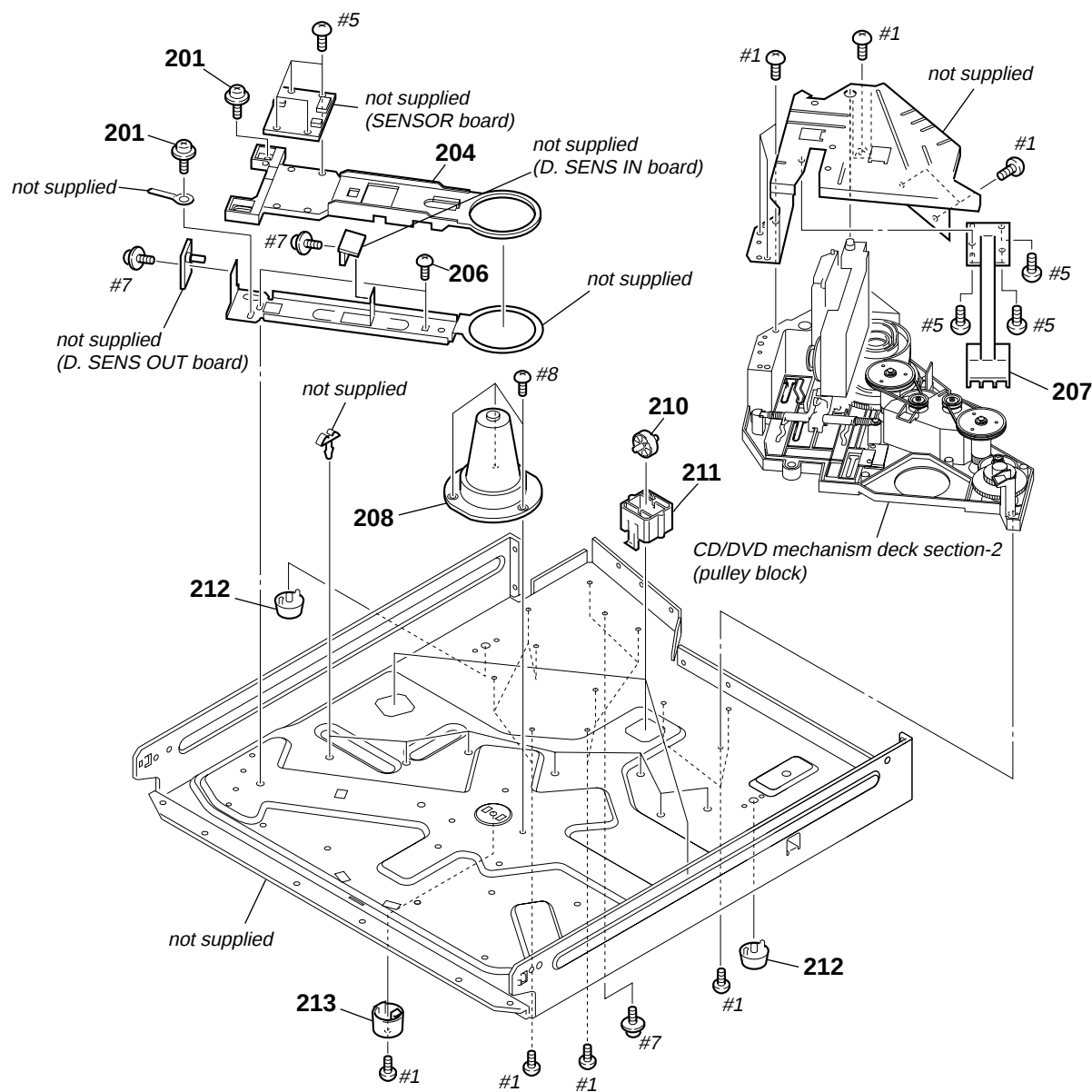
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	4-226-841-02	COVER (PT)		107	4-250-786-01	LOCKING WIRE SADDLE	
△ 102	1-468-894-11	REGULATOR, SWITCHING		108	1-500-386-11	FILTER, CLAMP (FERRITE CORE)	
104	4-226-876-21	COVER (CDM)		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
△ 105	1-783-820-31	CORD, POWER					
* 106	3-703-244-00	BUSHING (2104), CORD					

8-4. TABLE SECTION



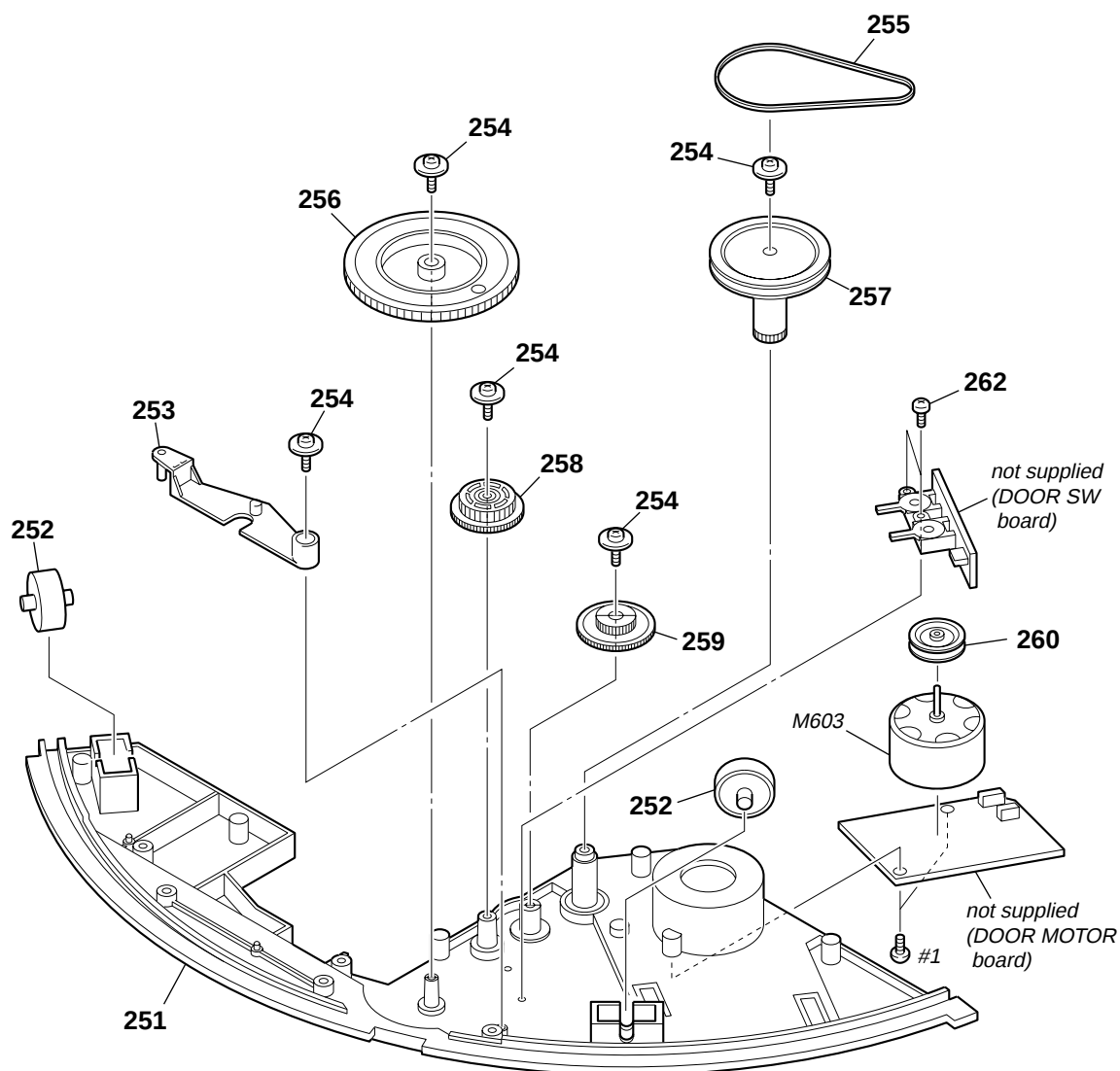
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	X-2023-792-1	DOOR ASSY		158	A-1076-698-A	DRIVER BOARD, COMPLETE	
152	4-226-834-02	COVER (TABLE)		159	3-356-601-13	SCREW, STEP	
153	X-4952-500-2	TABLE (400) ASSY		160	3-703-136-01	SCREW (M3X14)	
154	4-226-833-06	GUIDE (DOOR)		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
155	4-215-968-01	WINDOW (INTERNAL ILLUMINATION)		#4	7-685-903-11	SCREW +PTPWH 3X6 (TYPE2)	
157	3-701-447-21	WASHER, 10					

8-5. CHASSIS SECTION



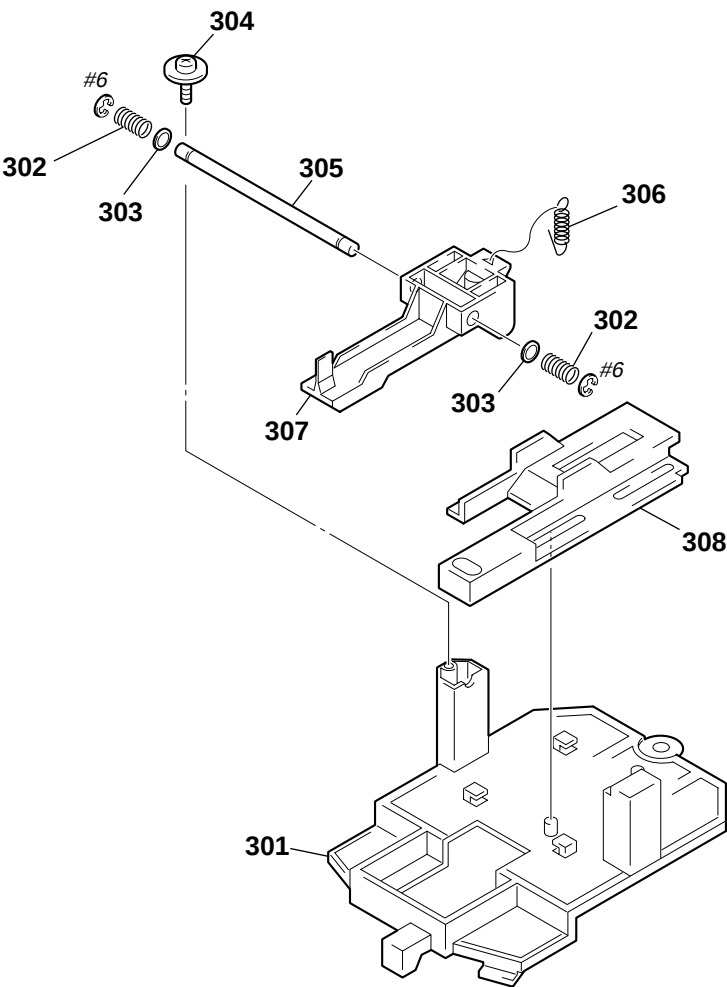
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	3-703-249-02	SCREW, S TIGHT, +PTTWH 3X6		212	4-965-822-01	FOOT	
204	4-225-873-01	HOLDER (TABLE SENSOR 400)		213	X-2022-049-1	FOOT ASSY	
206	4-216-096-02	SCREW (T1), STEP		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
207	4-216-088-02	GUIDE (DISC)		#5	7-685-645-79	SCREW +BVTP 3X6 TYPE2 N-S	
208	4-216-089-02	SHAFT (CENTER)		#7	7-682-948-01	SCREW +PSW 3X8	
210	4-216-093-01	ROLLER		#8	7-685-871-01	SCREW +BVTT 3X6 (S)	
211	4-216-092-03	HOLDER (ROLLER)					

8-6. BASE (DOOR) SECTION



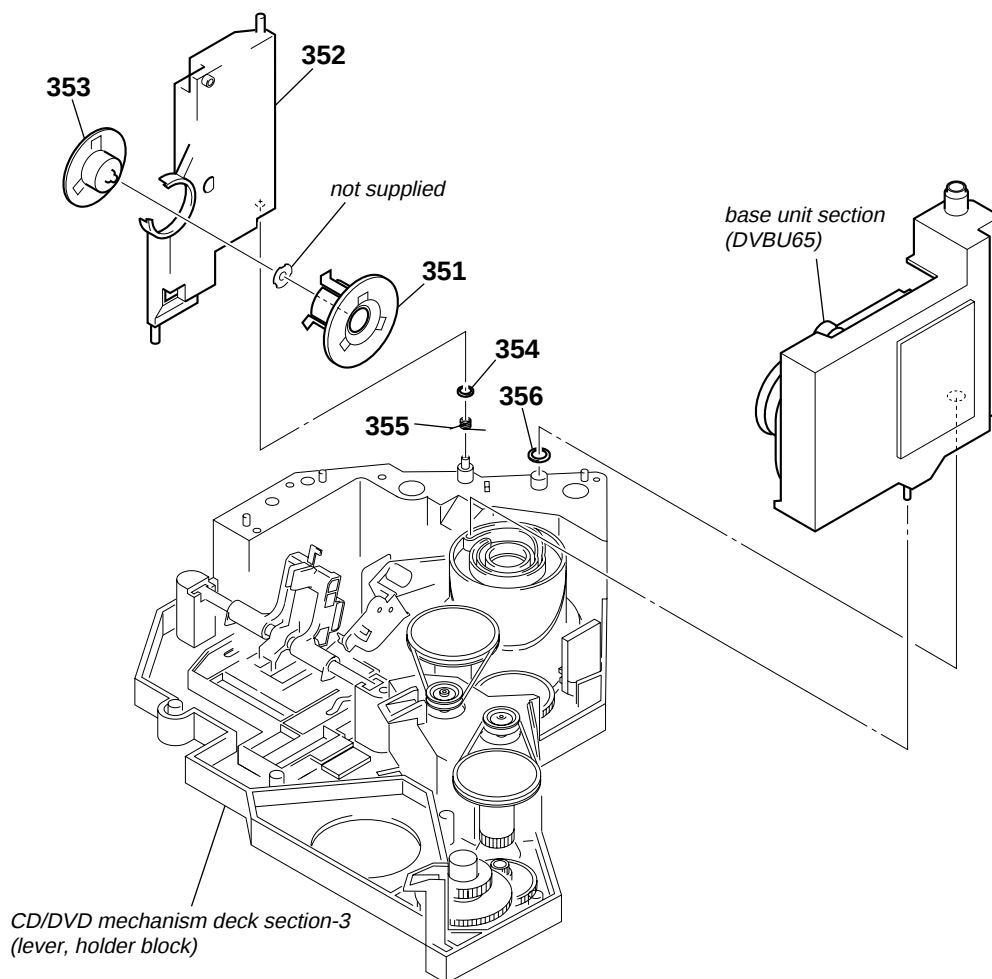
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
251	4-226-827-02	BASE (DOOR DRIVING)		258	4-226-831-01	GEAR (B)	
252	4-216-093-01	ROLLER		259	4-226-830-01	GEAR (A)	
253	4-226-832-01	LEVER (PU JOINT)		260	4-955-234-61	PULLEY (MOTOR CDM)	
254	4-218-254-21	SCREW (M2.6), +PTPWH		262	3-087-053-01	+BVTP2.6 (3CR)	
255	4-219-326-01	BELT (DIA. 42X1.2)		M603	1-541-632-12	MOTOR, DC (DOOR)	
256	4-226-828-02	GEAR (CAM)		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
257	4-226-829-01	GEAR (PULLEY)					

8-7. CD/DVD MECHANISM DECK SECTION-1
(POP-UP BLOCK)



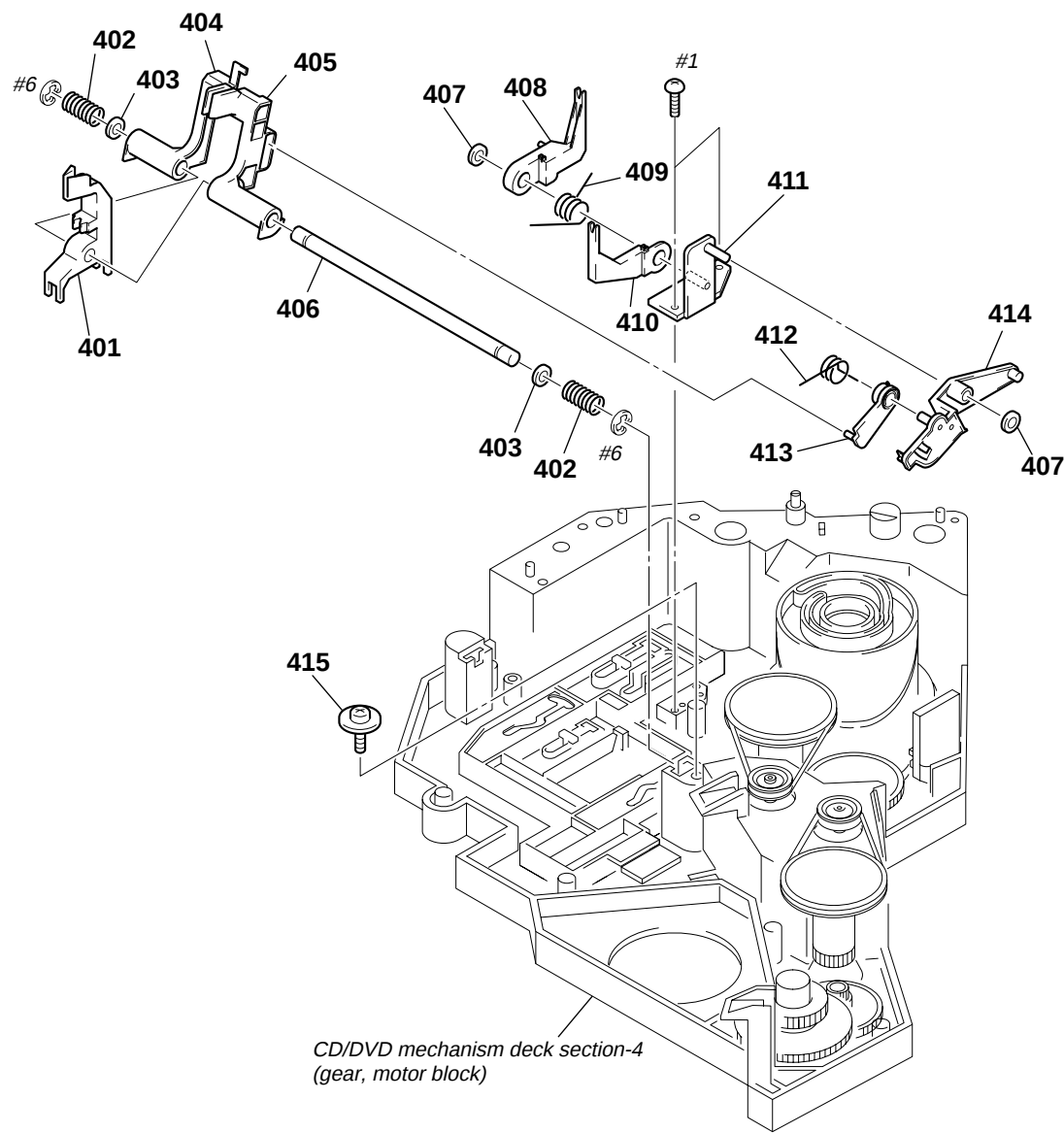
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
301	4-216-100-02	HOLDER (POP-UP)		306	4-216-104-01	SPRING (POP-UP), TENSION	
302	4-216-103-01	SPRING (POP-UP), COMPRESSION		307	4-228-352-01	LEVER (POP-UP 400)	
303	3-701-441-21	WASHER		308	4-216-099-02	SLIDER (POP-UP)	
304	4-998-716-01	SCREW, BU FITTING		#6	7-624-106-04	STOP RING 3.0, TYPE -E	
305	4-216-102-01	SHAFT (POP-UP FULCRUM)					

8-8. CD/DVD MECHANISM DECK SECTION-2 (PULLEY BLOCK)



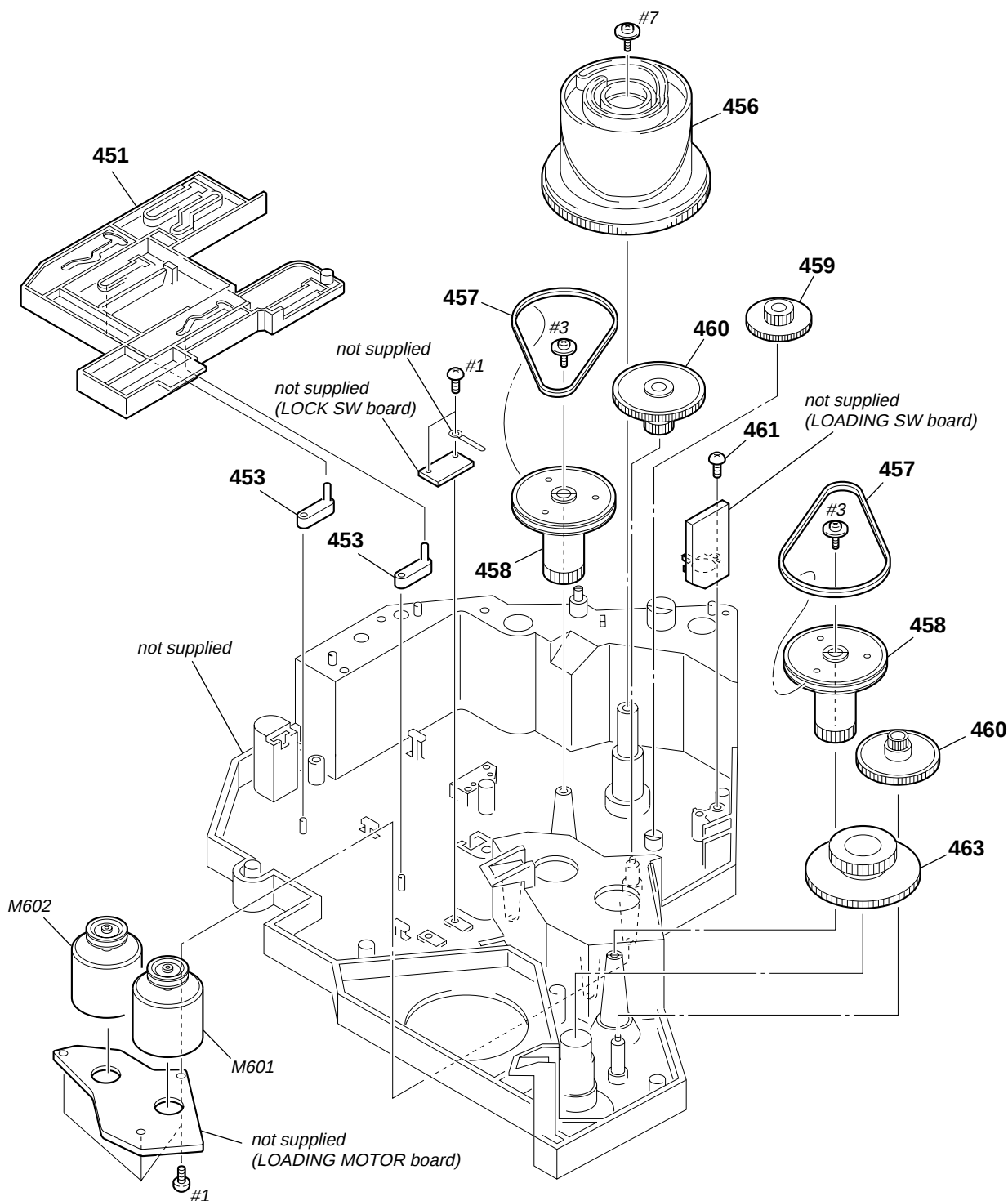
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
351	4-245-983-01	PULLEY (A)		355	4-216-081-01	SPRING (MG), TORSION	
352	4-216-082-11	HOLDER (MAGNET), TORSION		356	3-701-446-21	WASHER, 8	
353	4-245-984-01	PULLEY (B)					
354	3-701-441-21	WASHER					

8-9. CD/DVD MECHANISM DECK SECTION-3
(LEVER, HOLDER BLOCK)



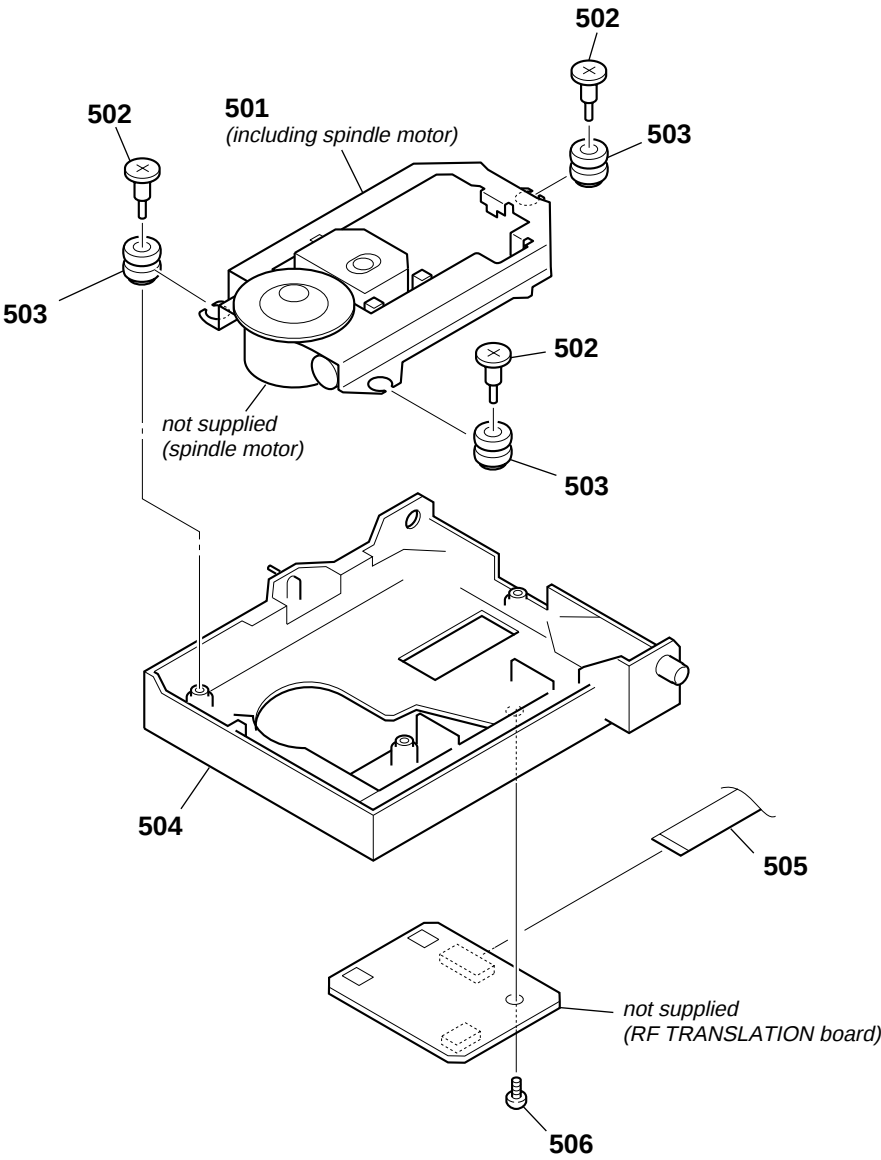
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
401	X-4952-499-1	LEVER (LOCK 400) ASSY		410	4-225-871-03	HOLDER (F400)	
402	4-216-067-01	SPRING (CLAMP), COMPRESSION		411	X-4950-900-1	BRACKET (LEVER) ASSY	
403	3-701-441-21	WASHER		412	4-216-080-01	SPRING (LIMITER), TORSION	
404	X-4952-501-1	HOLDER (DISC L400) ASSY		413	4-216-079-02	LIMITER (LEVER)	
405	X-4952-502-1	HOLDER (DISC R400) ASSY		414	4-216-078-01	LEVER (LOADING)	
406	4-225-868-01	SHAFT (CLAMP 400)		415	4-998-716-01	SCREW, BU FITTING	
407	3-325-697-21	WASHER		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
408	4-216-076-11	HOLDER (R)		#6	7-624-106-04	STOP RING 3.0, TYPE -E	
409	4-216-077-01	SPRING (HOLDER FR), TORSION					

8-10. CD/DVD MECHANISM DECK SECTION-4 (GEAR, MOTOR BLOCK)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
451	4-225-865-01	SLIDER (400)		461	3-087-053-01	+BVTP2.6 (3CR)	
453	X-4952-503-1	LEVER (FULCRUM 400) ASSY		463	4-225-869-01	GEAR (TABLE 400)	
456	A-4672-676-B	CAM ASSY		M601	A-4672-895-A	MOTOR (400) ASSY (TABLE)	
457	4-225-876-01	BELT (400)		M602	A-4672-895-A	MOTOR (400) ASSY (LOADING)	
458	4-225-870-01	PULLEY (400)		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
459	4-216-057-01	GEAR (CENTER 2)		#3	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	
460	4-216-058-01	GEAR (CENTER)		#7	7-682-948-01	SCREW +PSW 3X8	

8-11. BASE UNIT SECTION
(DVBU65)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
▲ 501	A-1109-165-A	OPTICAL PICK-UP (DBU-3) (SERVICE ASSY) (including spindle motor)		504	X-2023-735-1	HOLDER, DBU400 ASSY	
502	4-981-923-01	SCREW (M), STEP		505	1-824-106-51	CABLE, FLEXIBLE FLAT (0.5mm pitch)	
503	3-057-023-11	INSULATOR (RB)		506	3-087-053-01	+BVTP2.6 (3CR)	

SECTION 9

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

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

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

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

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
$\diamond$	A-1126-999-A	AV BOARD, COMPLETE (for SERVICE)	*****			C252	1-135-580-11	MYLAR	330PF	5%	50V
		< CAPACITOR >				C253	1-130-479-00	MYLAR	0.0047uF	5%	50V
C101	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C254	1-135-580-11	MYLAR	330PF	5%	50V
C102	1-126-204-11	ELECT CHIP	47uF	20%	16V	C255	1-126-947-11	ELECT	47uF	20%	35V
C103	1-126-204-11	ELECT CHIP	47uF	20%	16V	C257	1-110-339-11	MYLAR	220PF	5%	50V
C104	1-126-204-11	ELECT CHIP	47uF	20%	16V	C261	1-130-478-00	MYLAR	0.0039uF	5%	50V
C105	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	C262	1-135-580-11	MYLAR	330PF	5%	50V
C106	1-126-204-11	ELECT CHIP	47uF	20%	16V	C263	1-130-479-00	MYLAR	0.0047uF	5%	50V
C107	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C264	1-135-580-11	MYLAR	330PF	5%	50V
C108	1-126-204-11	ELECT CHIP	47uF	20%	16V	C265	1-126-947-11	ELECT	47uF	20%	35V
C109	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C267	1-110-339-11	MYLAR	220PF	5%	50V
C201	1-130-478-00	MYLAR	0.0039uF	5%	50V	C271	1-130-478-00	MYLAR	0.0039uF	5%	50V
C202	1-135-580-11	MYLAR	330PF	5%	50V	C272	1-135-580-11	MYLAR	330PF	5%	50V
C203	1-130-479-00	MYLAR	0.0047uF	5%	50V	C273	1-130-479-00	MYLAR	0.0047uF	5%	50V
C204	1-135-580-11	MYLAR	330PF	5%	50V	C274	1-135-580-11	MYLAR	330PF	5%	50V
C205	1-126-947-11	ELECT	47uF	20%	35V	C275	1-126-947-11	ELECT	47uF	20%	35V
C207	1-110-339-11	MYLAR	220PF	5%	50V	C277	1-110-339-11	MYLAR	220PF	5%	50V
C211	1-130-478-00	MYLAR	0.0039uF	5%	50V	C301	1-126-947-11	ELECT	47uF	20%	35V
C212	1-135-580-11	MYLAR	330PF	5%	50V	C302	1-126-947-11	ELECT	47uF	20%	35V
C213	1-130-479-00	MYLAR	0.0047uF	5%	50V	C305	1-126-947-11	ELECT	47uF	20%	35V
C214	1-135-580-11	MYLAR	330PF	5%	50V	C306	1-126-947-11	ELECT	47uF	20%	35V
C215	1-126-947-11	ELECT	47uF	20%	35V	C309	1-126-947-11	ELECT	47uF	20%	35V
C217	1-110-339-11	MYLAR	220PF	5%	50V	C310	1-126-947-11	ELECT	47uF	20%	35V
C221	1-130-478-00	MYLAR	0.0039uF	5%	50V	C313	1-126-947-11	ELECT	47uF	20%	35V
C222	1-135-580-11	MYLAR	330PF	5%	50V	C314	1-126-947-11	ELECT	47uF	20%	35V
C223	1-130-479-00	MYLAR	0.0047uF	5%	50V	C317	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C224	1-135-580-11	MYLAR	330PF	5%	50V	C318	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C225	1-126-947-11	ELECT	47uF	20%	35V	C321	1-126-960-11	ELECT	1uF	20%	50V
C227	1-110-339-11	MYLAR	220PF	5%	50V	C322	1-126-960-11	ELECT	1uF	20%	50V
C231	1-130-478-00	MYLAR	0.0039uF	5%	50V	C323	1-126-960-11	ELECT	1uF	20%	50V
C232	1-135-580-11	MYLAR	330PF	5%	50V	C324	1-126-767-11	ELECT	1000uF	20%	16V
C233	1-130-479-00	MYLAR	0.0047uF	5%	50V	C341	1-126-947-11	ELECT	47uF	20%	35V
C234	1-135-580-11	MYLAR	330PF	5%	50V	C342	1-126-947-11	ELECT	47uF	20%	35V
C235	1-126-947-11	ELECT	47uF	20%	35V	C344	1-126-947-11	ELECT	47uF	20%	35V
C237	1-110-339-11	MYLAR	220PF	5%	50V	C351	1-126-947-11	ELECT	47uF	20%	35V
C241	1-130-478-00	MYLAR	0.0039uF	5%	50V	C352	1-126-947-11	ELECT	47uF	20%	35V
C242	1-135-580-11	MYLAR	330PF	5%	50V	C353	1-126-924-11	ELECT	330uF	20%	10V
C243	1-130-479-00	MYLAR	0.0047uF	5%	50V	C354	1-126-947-11	ELECT	47uF	20%	35V
C244	1-135-580-11	MYLAR	330PF	5%	50V	C355	1-126-947-11	ELECT	47uF	20%	35V
C245	1-126-947-11	ELECT	47uF	20%	35V	C356	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C247	1-110-339-11	MYLAR	220PF	5%	50V	C357	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C251	1-130-478-00	MYLAR	0.0039uF	5%	50V	C358	1-126-947-11	ELECT	47uF	20%	35V
						C371	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V

$\diamond$ Please refer to “NOTE OF HANDLING THE AV BOARD (Part No. A-1126-999-A)” on the service note (Page 4) for handling of this board.

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
C372	1-104-665-11	ELECT	100uF	20%	25V	C444	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C373	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C445	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
						C446	1-126-208-21	ELECT CHIP	47uF	20%	4V
C374	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C447	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C375	1-104-665-11	ELECT	100uF	20%	25V	C448	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C376	1-104-665-11	ELECT	100uF	20%	25V						
C377	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C449	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C378	1-104-665-11	ELECT	100uF	20%	25V	C450	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
						C451	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C379	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C452	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C380	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C453	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C381	1-104-665-11	ELECT	100uF	20%	25V						
C382	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C454	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C383	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C455	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
						C456	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C384	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C457	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C385	1-104-665-11	ELECT	100uF	20%	25V	C458	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C386	1-162-962-11	CERAMIC CHIP	470PF	10%	50V						
C401	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	C459	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C402	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C460	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
						C461	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C403	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C462	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C404	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C463	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C405	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V						
C406	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C464	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C407	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C465	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
						C466	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C408	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C467	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C409	1-100-159-91	CERAMIC CHIP	22uF	10%	6.3V	C468	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C410	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V						
C411	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C469	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C412	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C470	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
						C471	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C413	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C472	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C414	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C500	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C415	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V						
C416	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C501	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C417	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C502	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
						C503	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C418	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C504	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C419	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C505	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C420	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V						
C421	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C506	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C422	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C507	1-164-173-11	CERAMIC CHIP	0.0039uF	10%	50V
						C508	1-164-733-11	CERAMIC CHIP	820PF	10%	50V
C423	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C509	1-127-956-21	FILM CHIP	0.1uF	5%	16V
C424	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C510	1-127-956-21	FILM CHIP	0.1uF	5%	16V
C425	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V						
C426	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C511	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C427	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C512	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
						C513	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C428	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C514	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C429	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C515	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C430	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V						
C431	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C516	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C432	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C517	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
						C518	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C433	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C519	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C434	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C600	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C435	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V						
C436	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C601	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C437	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C602	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
						C603	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C438	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C604	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C439	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C605	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C440	1-128-934-11	CERAMIC CHIP	0.33uF	20%	10V						
C441	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V	C606	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C443	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C607	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
						C608	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C609	1-100-159-91	CERAMIC CHIP	22uF 10% 6.3V	< FERRITE BEAD/JUMPER RESISTOR >			
C610	1-165-989-11	CERAMIC CHIP	10uF 10% 6.3V	FB400	1-216-864-11	SHORT CHIP 0	
C611	1-165-989-11	CERAMIC CHIP	10uF 10% 6.3V	FB600	1-414-921-11	INDUCTOR, FERRITE BEAD	
C612	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	FB601	1-414-921-11	INDUCTOR, FERRITE BEAD	
C613	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	FB602	1-414-921-11	INDUCTOR, FERRITE BEAD	
C614	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	FB603	1-414-921-11	INDUCTOR, FERRITE BEAD	
C615	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	FB604	1-414-921-11	INDUCTOR, FERRITE BEAD	
C616	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	< EARTH TERMINAL >			
C617	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	* G201	1-537-738-21	TERMINAL, EARTH	
C618	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	* G202	1-537-738-21	TERMINAL, EARTH	
C619	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	< IC/JACK/FET >			
C620	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	IC101	8-759-662-86	IC NJM79M05DL1A (TE2)	
C621	1-100-159-91	CERAMIC CHIP	22uF 10% 6.3V	IC102	6-701-820-01	IC LA73053-TLM-E	
C622	1-100-159-91	CERAMIC CHIP	22uF 10% 6.3V	IC201	8-759-100-96	IC uPC4558G2	
C623	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	IC202	8-759-100-96	IC uPC4558G2	
C624	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	IC203	8-759-100-96	IC uPC4558G2	
C625	1-124-778-00	ELECT CHIP	22uF 20% 6.3V	IC204	8-759-100-96	IC uPC4558G2	
C626	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	IC301	1-819-190-11	PLATE, JACK (PIN+OPTICAL OUT) (PCM/DTS/DOLBY DIGITAL, DIGITAL OUT)	
C627	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	IC302	8-759-052-52	IC L78M05T-FA	
C628	1-115-467-11	CERAMIC CHIP	0.22uF 10% 10V	IC371	8-759-583-47	IC uPC2933T-E2	
C629	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	IC400	6-702-300-01	IC TK11118CSCL-G	
C630	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	IC401	6-708-021-01	IC CXD9866R	
C631	1-126-208-21	ELECT CHIP	47uF 20% 4V	IC402	6-705-992-11	IC HY57V161610ETP-7DR	
C632	1-115-467-11	CERAMIC CHIP	0.22uF 10% 10V	IC500	6-701-079-01	IC ADV7300AKST	
C633	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	IC501	6-702-301-01	IC TK11125CSCL-G	
C634	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	IC502	8-759-583-47	IC uPC2933T-E2	
C635	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	IC600	(Not supplied)	IC SII9030CTU-1.1	
C636	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	IC601	6-702-300-01	IC TK11118CSCL-G	
C637	1-115-467-11	CERAMIC CHIP	0.22uF 10% 10V	IC602	6-703-046-01	IC SN74LVC1G08DCKR	
C638	1-126-205-11	ELECT CHIP	47uF 20% 6.3V	IC603	6-705-337-01	IC TK11150CSCL-G	
< CONNECTOR >				IC604	6-702-302-01	IC TK11133CSCL-G	
* CN301	1-564-716-11	PIN, CONNECTOR (SMALL TYPE) 14P		IC605	6-550-014-01	FET SSM6N15FU (TE85R)	
* CN302	1-564-711-11	PIN, CONNECTOR (SMALL TYPE) 9P		< JACK >			
* CN303	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P		J101	1-694-484-21	TERMINAL, S (2P.V) (S VIDEO OUT)	
* CN304	1-568-954-11	PIN, CONNECTOR 5P		J102	1-815-361-11	JACK, PIN 3P (COMPONENT VIDEO OUT)	
CN306	1-784-836-21	CONNECTOR, FFC (LIF (NON-ZIF)) 29P		J103	1-815-363-11	JACK, PIN (6P) (VIDEO LINE OUT)	
CN400	1-784-881-21	CONNECTOR, FFC (LIF (NON-ZIF)) 33P		J201	1-793-482-11	JACK, PIN 6P (5.1CH OUTPUT)	
< DIODE >				J600	1-818-086-41	HDMI CONNECTOR (HDMI OUT)	
D101	8-719-053-18	DIODE 1SR154-400TE-25		< COIL >			
D102	8-719-053-18	DIODE 1SR154-400TE-25		L101	1-412-060-11	INDUCTOR 22uH	
D103	8-719-071-15	DIODE HZM6.8ZWA1TL		L102	1-412-060-11	INDUCTOR 22uH	
D104	8-719-071-15	DIODE HZM6.8ZWA1TL		L351	1-419-387-21	INDUCTOR 100uH	
D105	8-719-071-15	DIODE HZM6.8ZWA1TL		< IC LINK >			
D106	8-719-071-15	DIODE HZM6.8ZWA1TL		PS371	1-532-637-00	IC LINK	
D301	8-719-914-43	DIODE DAN202K		PS372	1-532-637-00	IC LINK	
D351	8-719-988-61	DIODE 1SS355TE-17		< TRANSISTOR >			
D371	8-719-914-44	DIODE DAP202K		Q103	8-729-027-46	TRANSISTOR DTC114YKA-T146	
D601	6-500-701-01	DIODE PGB1010603NR		Q104	8-729-027-31	TRANSISTOR DTA124EKA-T146	
D602	6-500-701-01	DIODE PGB1010603NR		Q201	8-729-046-97	TRANSISTOR 2SD1938 (F)-T (TX).S0	
D603	6-500-701-01	DIODE PGB1010603NR					
D604	6-500-701-01	DIODE PGB1010603NR					
D605	6-500-701-01	DIODE PGB1010603NR					
D606	6-500-701-01	DIODE PGB1010603NR					
D607	6-500-701-01	DIODE PGB1010603NR					
D608	6-500-701-01	DIODE PGB1010603NR					

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description			Remark
Q202	8-729-046-97	TRANSISTOR	2SD1938 (F)-T (TX).SO			R218	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W
Q203	8-729-046-97	TRANSISTOR	2SD1938 (F)-T (TX).SO			R219	1-218-887-11	METAL CHIP	47K	0.5%	1/10W
Q204	8-729-046-97	TRANSISTOR	2SD1938 (F)-T (TX).SO			R220	1-218-839-11	METAL CHIP	470	0.5%	1/10W
Q205	8-729-046-97	TRANSISTOR	2SD1938 (F)-T (TX).SO			R221	1-218-845-11	METAL CHIP	820	0.5%	1/10W
Q206	8-729-046-97	TRANSISTOR	2SD1938 (F)-T (TX).SO			R222	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
Q207	8-729-046-97	TRANSISTOR	2SD1938 (F)-T (TX).SO			R223	1-218-845-11	METAL CHIP	820	0.5%	1/10W
Q208	8-729-046-97	TRANSISTOR	2SD1938 (F)-T (TX).SO			R224	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
Q301	8-729-027-59	TRANSISTOR	DTC144EKA-T146			R225	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W
Q302	8-729-027-53	TRANSISTOR	DTC124TKA-T146			R226	1-218-845-11	METAL CHIP	820	0.5%	1/10W
Q303	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX			R227	1-218-845-11	METAL CHIP	820	0.5%	1/10W
Q304	8-729-027-59	TRANSISTOR	DTC144EKA-T146			R228	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W
Q305	8-729-027-53	TRANSISTOR	DTC124TKA-T146			R229	1-218-887-11	METAL CHIP	47K	0.5%	1/10W
Q306	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX			R230	1-218-839-11	METAL CHIP	470	0.5%	1/10W
Q307	8-729-027-59	TRANSISTOR	DTC144EKA-T146			R231	1-218-845-11	METAL CHIP	820	0.5%	1/10W
Q308	8-729-027-53	TRANSISTOR	DTC124TKA-T146			R232	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
Q309	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX			R233	1-218-845-11	METAL CHIP	820	0.5%	1/10W
Q310	8-729-230-49	TRANSISTOR	2SC2712-YG			R234	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
Q351	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX			R235	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W
Q352	8-729-230-49	TRANSISTOR	2SC2712-YG			R236	1-218-845-11	METAL CHIP	820	0.5%	1/10W
Q353	8-729-049-31	TRANSISTOR	2SB710A-RTX			R237	1-218-845-11	METAL CHIP	820	0.5%	1/10W
Q371	6-550-543-01	TRANSISTOR	2SD1766FT100QR			R238	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W
Q372	8-729-027-23	TRANSISTOR	DTA114EKA-T146			R239	1-218-887-11	METAL CHIP	47K	0.5%	1/10W
Q373	8-729-230-49	TRANSISTOR	2SC2712-YG			R240	1-218-839-11	METAL CHIP	470	0.5%	1/10W
Q374	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX			R241	1-218-845-11	METAL CHIP	820	0.5%	1/10W
< RESISTOR >						R242	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R101	1-216-864-11	SHORT CHIP	0			R243	1-218-845-11	METAL CHIP	820	0.5%	1/10W
R103	1-216-864-11	SHORT CHIP	0			R244	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R110	1-216-833-11	METAL CHIP	10K	5%	1/10W	R245	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W
R111	1-216-807-11	METAL CHIP	68	5%	1/10W	R246	1-218-845-11	METAL CHIP	820	0.5%	1/10W
R112	1-216-807-11	METAL CHIP	68	5%	1/10W	R247	1-218-845-11	METAL CHIP	820	0.5%	1/10W
R113	1-216-807-11	METAL CHIP	68	5%	1/10W	R248	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W
R114	1-216-807-11	METAL CHIP	68	5%	1/10W	R249	1-218-887-11	METAL CHIP	47K	0.5%	1/10W
R115	1-216-807-11	METAL CHIP	68	5%	1/10W	R250	1-218-839-11	METAL CHIP	470	0.5%	1/10W
R116	1-216-807-11	METAL CHIP	68	5%	1/10W	R251	1-218-845-11	METAL CHIP	820	0.5%	1/10W
R117	1-216-807-11	METAL CHIP	68	5%	1/10W	R252	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R118	1-216-807-11	METAL CHIP	68	5%	1/10W	R253	1-218-845-11	METAL CHIP	820	0.5%	1/10W
R119	1-216-807-11	METAL CHIP	68	5%	1/10W	R254	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R129	1-216-864-11	SHORT CHIP	0			R255	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W
R132	1-216-864-11	SHORT CHIP	0			R256	1-218-845-11	METAL CHIP	820	0.5%	1/10W
R201	1-218-845-11	METAL CHIP	820	0.5%	1/10W	R257	1-218-845-11	METAL CHIP	820	0.5%	1/10W
R202	1-218-847-11	METAL CHIP	1K	0.5%	1/10W	R258	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W
R203	1-218-845-11	METAL CHIP	820	0.5%	1/10W	R259	1-218-887-11	METAL CHIP	47K	0.5%	1/10W
R204	1-218-847-11	METAL CHIP	1K	0.5%	1/10W	R260	1-218-839-11	METAL CHIP	470	0.5%	1/10W
R205	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W	R261	1-218-845-11	METAL CHIP	820	0.5%	1/10W
R206	1-218-845-11	METAL CHIP	820	0.5%	1/10W	R262	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R207	1-218-845-11	METAL CHIP	820	0.5%	1/10W	R263	1-218-845-11	METAL CHIP	820	0.5%	1/10W
R208	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W	R264	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R209	1-218-887-11	METAL CHIP	47K	0.5%	1/10W	R265	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W
R210	1-218-839-11	METAL CHIP	470	0.5%	1/10W	R266	1-218-845-11	METAL CHIP	820	0.5%	1/10W
R211	1-218-845-11	METAL CHIP	820	0.5%	1/10W	R267	1-218-845-11	METAL CHIP	820	0.5%	1/10W
R212	1-218-847-11	METAL CHIP	1K	0.5%	1/10W	R268	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W
R213	1-218-845-11	METAL CHIP	820	0.5%	1/10W	R269	1-218-887-11	METAL CHIP	47K	0.5%	1/10W
R214	1-218-847-11	METAL CHIP	1K	0.5%	1/10W	R270	1-218-839-11	METAL CHIP	470	0.5%	1/10W
R215	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W	R271	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R216	1-218-845-11	METAL CHIP	820	0.5%	1/10W	R272	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R217	1-218-845-11	METAL CHIP	820	0.5%	1/10W	R273	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W
						R274	1-218-845-11	METAL CHIP	820	0.5%	1/10W
						R275	1-218-845-11	METAL CHIP	820	0.5%	1/10W

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R276	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W	R374	1-216-833-11	METAL CHIP	10K	5%	1/10W
R277	1-218-887-11	METAL CHIP	47K	0.5%	1/10W	R375	1-208-794-11	METAL CHIP	3.3K	0.5%	1/10W
R278	1-218-839-11	METAL CHIP	470	0.5%	1/10W	R376	1-208-794-11	METAL CHIP	3.3K	0.5%	1/10W
R279	1-218-845-11	METAL CHIP	820	0.5%	1/10W	R377	1-208-794-11	METAL CHIP	3.3K	0.5%	1/10W
R280	1-218-845-11	METAL CHIP	820	0.5%	1/10W	R378	1-216-833-11	METAL CHIP	10K	5%	1/10W
R281	1-218-823-11	METAL CHIP	100	0.5%	1/10W	R379	1-216-821-11	METAL CHIP	1K	5%	1/10W
R282	1-218-823-11	METAL CHIP	100	0.5%	1/10W	R380	1-216-839-11	METAL CHIP	33K	5%	1/10W
R283	1-218-823-11	METAL CHIP	100	0.5%	1/10W	R382	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R284	1-218-823-11	METAL CHIP	100	0.5%	1/10W	R383	1-216-841-11	METAL CHIP	47K	5%	1/10W
R285	1-218-823-11	METAL CHIP	100	0.5%	1/10W	R403	1-216-809-11	METAL CHIP	100	5%	1/10W
R286	1-218-823-11	METAL CHIP	100	0.5%	1/10W	R405	1-216-864-11	SHORT CHIP	0		
R287	1-218-823-11	METAL CHIP	100	0.5%	1/10W	R406	1-216-864-11	SHORT CHIP	0		
R288	1-218-823-11	METAL CHIP	100	0.5%	1/10W	R407	1-216-864-11	SHORT CHIP	0		
R289	1-218-823-11	METAL CHIP	100	0.5%	1/10W	R408	1-216-864-11	SHORT CHIP	0		
R290	1-218-823-11	METAL CHIP	100	0.5%	1/10W	R409	1-216-864-11	SHORT CHIP	0		
R301	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R410	1-216-809-11	METAL CHIP	100	5%	1/10W
R302	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R411	1-216-864-11	SHORT CHIP	0		
R303	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R412	1-216-815-11	METAL CHIP	330	5%	1/10W
R304	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R413	1-216-815-11	METAL CHIP	330	5%	1/10W
R305	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R414	1-216-815-11	METAL CHIP	330	5%	1/10W
R306	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R415	1-216-815-11	METAL CHIP	330	5%	1/10W
R307	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R416	1-216-815-11	METAL CHIP	330	5%	1/10W
R308	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R417	1-216-815-11	METAL CHIP	330	5%	1/10W
R311	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R418	1-216-815-11	METAL CHIP	330	5%	1/10W
R312	1-216-833-11	METAL CHIP	10K	5%	1/10W	R419	1-216-815-11	METAL CHIP	330	5%	1/10W
R313	1-216-841-11	METAL CHIP	47K	5%	1/10W	R421	1-216-815-11	METAL CHIP	330	5%	1/10W
R314	1-216-833-11	METAL CHIP	10K	5%	1/10W	R422	1-216-815-11	METAL CHIP	330	5%	1/10W
R315	1-216-833-11	METAL CHIP	10K	5%	1/10W	R440	1-216-809-11	METAL CHIP	100	5%	1/10W
R316	1-216-845-11	METAL CHIP	100K	5%	1/10W	R451	1-216-864-11	SHORT CHIP	0		
R321	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R455	1-216-864-11	SHORT CHIP	0		
R322	1-216-833-11	METAL CHIP	10K	5%	1/10W	R459	1-216-864-11	SHORT CHIP	0		
R323	1-216-841-11	METAL CHIP	47K	5%	1/10W	R463	1-216-809-11	METAL CHIP	100	5%	1/10W
R324	1-216-833-11	METAL CHIP	10K	5%	1/10W	R476	1-216-805-11	METAL CHIP	47	5%	1/10W
R325	1-216-833-11	METAL CHIP	10K	5%	1/10W	R477	1-216-805-11	METAL CHIP	47	5%	1/10W
R326	1-216-845-11	METAL CHIP	100K	5%	1/10W	R478	1-216-805-11	METAL CHIP	47	5%	1/10W
R331	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R479	1-216-805-11	METAL CHIP	47	5%	1/10W
R332	1-216-833-11	METAL CHIP	10K	5%	1/10W	R480	1-218-859-11	METAL CHIP	3.3K	0.5%	1/10W
R333	1-216-841-11	METAL CHIP	47K	5%	1/10W	R481	1-218-845-11	METAL CHIP	820	0.5%	1/10W
R334	1-216-833-11	METAL CHIP	10K	5%	1/10W	R502	1-216-864-11	SHORT CHIP	0		
R335	1-216-833-11	METAL CHIP	10K	5%	1/10W	R509	1-216-864-11	SHORT CHIP	0		
R336	1-216-845-11	METAL CHIP	100K	5%	1/10W	R511	1-216-864-11	SHORT CHIP	0		
R341	1-216-821-11	METAL CHIP	1K	5%	1/10W	R512	1-216-864-11	SHORT CHIP	0		
R342	1-216-821-11	METAL CHIP	1K	5%	1/10W	R519	1-216-819-11	METAL CHIP	680	5%	1/10W
R343	1-216-821-11	METAL CHIP	1K	5%	1/10W	R520	1-216-833-11	METAL CHIP	10K	5%	1/10W
R344	1-216-813-11	METAL CHIP	220	5%	1/10W	R521	1-216-821-11	METAL CHIP	1K	5%	1/10W
R345	1-216-807-11	METAL CHIP	68	5%	1/10W	R522	1-216-821-11	METAL CHIP	1K	5%	1/10W
R346	1-216-833-11	METAL CHIP	10K	5%	1/10W	R523	1-216-809-11	METAL CHIP	100	5%	1/10W
R351	1-216-833-11	METAL CHIP	10K	5%	1/10W	R524	1-218-834-11	METAL CHIP	300	0.5%	1/10W
R352	1-216-817-11	METAL CHIP	470	5%	1/10W	R525	1-218-834-11	METAL CHIP	300	0.5%	1/10W
R354	1-216-845-11	METAL CHIP	100K	5%	1/10W	R526	1-218-834-11	METAL CHIP	300	0.5%	1/10W
R355	1-216-845-11	METAL CHIP	100K	5%	1/10W	R527	1-218-834-11	METAL CHIP	300	0.5%	1/10W
R356	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	R528	1-218-834-11	METAL CHIP	300	0.5%	1/10W
R357	1-216-833-11	METAL CHIP	10K	5%	1/10W	R529	1-218-834-11	METAL CHIP	300	0.5%	1/10W
R358	1-216-864-11	SHORT CHIP	0			R530	1-216-864-11	SHORT CHIP	0		
R359	1-216-864-11	SHORT CHIP	0			R531	1-216-864-11	SHORT CHIP	0		
R362	1-216-864-11	SHORT CHIP	0			R532	1-216-864-11	SHORT CHIP	0		
R373	1-216-864-11	SHORT CHIP	0			R533	1-216-864-11	SHORT CHIP	0		
						R534	1-216-864-11	SHORT CHIP	0		

DVP-CX995V

AV	D. SENS IN	D. SENS OUT	DOOR MOTOR	DOOR SW	DRIVER
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Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R535	1-216-864-11	SHORT CHIP	0			< VARIABLE RESISTOR >					
R537	1-216-864-11	SHORT CHIP	0								
R600	1-216-809-11	METAL CHIP	100	5%	1/10W	RV500	1-241-761-11	RES, ADJ CERMET	1K		
R601	1-216-809-11	METAL CHIP	100	5%	1/10W	RV501	1-241-761-11	RES, ADJ CERMET	1K		
R602	1-216-809-11	METAL CHIP	100	5%	1/10W	*****					
R604	1-216-864-11	SHORT CHIP	0			D. SENS IN BOARD					
R606	1-216-864-11	SHORT CHIP	0			*****					
R607	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	*	4-985-300-02	HOLDER (P-T)	< PHOTO TRANSISTOR >		
R609	1-216-829-11	METAL CHIP	4.7K	5%	1/10W						
R611	1-216-864-11	SHORT CHIP	0								
R612	1-218-839-11	METAL CHIP	470	0.5%	1/10W						
R613	1-211-736-11	METAL CHIP	5.1	5%	1/10W	Q81	8-729-921-53	PHOTO TRANSISTOR	83F1E000F		
R614	1-216-833-11	METAL CHIP	10K	5%	1/10W	*****					
R615	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	D. SENS OUT BOARD					
R616	1-216-841-11	METAL CHIP	47K	5%	1/10W	*****					
R617	1-216-864-11	SHORT CHIP	0			*	4-976-473-01	HOLDER (LED-S)	< LED >		
R618	1-216-864-11	SHORT CHIP	0								
R619	1-216-864-11	SHORT CHIP	0								
R629	1-216-864-11	SHORT CHIP	0								
R632	1-216-864-11	SHORT CHIP	0								
R667	1-218-853-11	METAL CHIP	1.8K	0.5%	1/10W	D81	8-719-055-84	LED	GL528VS1 (DISC DETECT)		
R668	1-218-853-11	METAL CHIP	1.8K	0.5%	1/10W	*****					
R1016	1-216-833-11	METAL CHIP	10K	5%	1/10W	DOOR MOTOR BOARD					
< COMPOSITION CIRCUIT BLOCK >						*****					
RB401	1-234-370-21	RES, NETWORK	22 (1005X4)			DOOR SW BOARD					
RB402	1-234-370-21	RES, NETWORK	22 (1005X4)			*****					
RB403	1-234-370-21	RES, NETWORK	22 (1005X4)			< SWITCH >					
RB404	1-234-370-21	RES, NETWORK	22 (1005X4)			S611	1-786-154-11	LEVER SLIDE SWITCH (DOOR OPEN/CLOSE)			
RB405	1-234-370-21	RES, NETWORK	22 (1005X4)			S612	1-786-154-11	LEVER SLIDE SWITCH (POP-UP)			
RB406	1-234-370-21	RES, NETWORK	22 (1005X4)			*****					
RB407	1-234-370-21	RES, NETWORK	22 (1005X4)			A-1076-698-A DRIVER BOARD, COMPLETE					
RB408	1-234-371-21	RES, NETWORK	47 (1005X4)			*****					
RB409	1-234-371-21	RES, NETWORK	47 (1005X4)			< CAPACITOR >					
RB410	1-234-371-21	RES, NETWORK	47 (1005X4)			C901	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
RB411	1-234-371-21	RES, NETWORK	47 (1005X4)			C902	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
RB412	1-234-371-21	RES, NETWORK	47 (1005X4)			C903	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
RB413	1-234-371-21	RES, NETWORK	47 (1005X4)			C904	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
RB414	1-234-371-21	RES, NETWORK	47 (1005X4)			C905	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
RB415	1-234-400-21	CONDUCTOR, NETWORK	(2010X4)			C906	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
RB416	1-234-400-21	CONDUCTOR, NETWORK	(2010X4)			C907	1-109-953-11	ELECT	2.2uF	20%	50V
RB419	1-234-371-21	RES, NETWORK	47 (1005X4)			C908	1-100-385-91	CERAMIC CHIP	0.47uF		25V
RB420	1-234-371-21	RES, NETWORK	47 (1005X4)			C909	1-100-385-91	CERAMIC CHIP	0.47uF		25V
RB421	1-234-371-21	RES, NETWORK	47 (1005X4)			C910	1-100-385-91	CERAMIC CHIP	0.47uF		25V
RB422	1-234-371-21	RES, NETWORK	47 (1005X4)			C911	1-131-992-11	CERAMIC CHIP	100000PF		35V
RB423	1-234-371-21	RES, NETWORK	47 (1005X4)			C913	1-131-992-11	CERAMIC CHIP	100000PF		35V
RB424	1-234-371-21	RES, NETWORK	47 (1005X4)			C914	1-126-947-11	ELECT	47uF	20%	35V
RB425	1-234-371-21	RES, NETWORK	47 (1005X4)			C915	1-126-947-11	ELECT	47uF	20%	35V
RB426	1-234-371-21	RES, NETWORK	47 (1005X4)			< CONNECTOR >					
RB427	1-234-371-21	RES, NETWORK	47 (1005X4)			*	CN901	1-568-937-11	PIN, CONNECTOR	10P	
RB428	1-234-371-21	RES, NETWORK	47 (1005X4)				CN903	1-506-469-11	PIN, CONNECTOR	4P	
RB429	1-234-387-21	RES, NETWORK	330 (1005X4)			*	CN904	1-568-934-11	PIN, CONNECTOR	7P	
RB430	1-234-387-21	RES, NETWORK	330 (1005X4)			*	CN905	1-506-469-11	PIN, CONNECTOR	4P	
RB601	1-239-662-81	RESISTOR, NETWORK	10								
RB602	1-239-662-81	RESISTOR, NETWORK	10								
RB603	1-239-662-81	RESISTOR, NETWORK	10								
RB604	1-239-662-81	RESISTOR, NETWORK	10								

DRIVER

KEY BOARD

LED

LOADING MOTOR

LOADING SW

Ref. No.	Part No.	Description	Remark		
* CN906	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P			
		< DIODE >			
D935	8-719-025-49	DIODE 02CZ15-TE85L			
		< EARTH TERMINAL >			
* G901	1-537-738-21	TERMINAL, EARTH			
		< IC >			
IC941	8-759-822-38	IC LA6510			
IC961	8-759-822-38	IC LA6510			
		< TRANSISTOR >			
Q931	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q941	8-729-424-18	TRANSISTOR UN2113			
Q942	8-729-421-19	TRANSISTOR UN2213			
Q951	8-729-424-18	TRANSISTOR UN2113			
Q952	8-729-421-19	TRANSISTOR UN2213			
		< RESISTOR >			
R901	1-216-797-11	METAL CHIP 10 5%	1/10W		
R902	1-240-915-11	RES-CHIP 1 1%	1/2W		
R903	1-240-915-11	RES-CHIP 1 1%	1/2W		
R904	1-216-797-11	METAL CHIP 10 5%	1/10W		
R905	1-240-915-11	RES-CHIP 1 1%	1/2W		
R906	1-216-835-11	METAL CHIP 15K 5%	1/10W		
R907	1-240-915-11	RES-CHIP 1 1%	1/2W		
R908	1-216-835-11	METAL CHIP 15K 5%	1/10W		
R909	1-216-848-11	METAL CHIP 180K 5%	1/10W		
R910	1-218-291-11	METAL CHIP 16K 5%	1/10W		
R911	1-216-847-11	METAL CHIP 150K 5%	1/10W		
R912	1-216-847-11	METAL CHIP 150K 5%	1/10W		
R913	1-216-848-11	METAL CHIP 180K 5%	1/10W		
R914	1-216-848-11	METAL CHIP 180K 5%	1/10W		
R915	1-218-291-11	METAL CHIP 16K 5%	1/10W		
R916	1-216-849-11	METAL CHIP 220K 5%	1/10W		
R917	1-216-845-11	METAL CHIP 100K 5%	1/10W		
R918	1-216-829-11	METAL CHIP 4.7K 5%	1/10W		
R919	1-240-915-11	RES-CHIP 1 1%	1/2W		
R920	1-240-915-11	RES-CHIP 1 1%	1/2W		
R921	1-216-847-11	METAL CHIP 150K 5%	1/10W		
R922	1-216-845-11	METAL CHIP 100K 5%	1/10W		
R923	1-216-821-11	METAL CHIP 1K 5%	1/10W		
R924	1-216-809-11	METAL CHIP 100 5%	1/10W		
R925	1-216-821-11	METAL CHIP 1K 5%	1/10W		
R926	1-216-845-11	METAL CHIP 100K 5%	1/10W		
R927	1-216-847-11	METAL CHIP 150K 5%	1/10W		
R928	1-216-829-11	METAL CHIP 4.7K 5%	1/10W		
R929	1-240-915-11	RES-CHIP 1 1%	1/2W		
R930	1-240-915-11	RES-CHIP 1 1%	1/2W		
R931	1-216-845-11	METAL CHIP 100K 5%	1/10W		
R932	1-216-825-11	METAL CHIP 2.2K 5%	1/10W		
R933	1-216-809-11	METAL CHIP 100 5%	1/10W		
R934	1-216-825-11	METAL CHIP 2.2K 5%	1/10W		
R935	1-216-809-11	METAL CHIP 100 5%	1/10W		
R936	1-216-825-11	METAL CHIP 2.2K 5%	1/10W		
R937	1-216-825-11	METAL CHIP 2.2K 5%	1/10W		

Ref. No.	Part No.	Description	Remark			
R941	1-216-821-11	METAL CHIP 1K 5%	1/10W			
R942	1-216-825-11	METAL CHIP 2.2K 5%	1/10W			
R943	1-216-825-11	METAL CHIP 2.2K 5%	1/10W			

R944	1-216-833-11	METAL CHIP 10K 5%	1/10W			
R945	1-216-837-11	METAL CHIP 22K 5%	1/10W			

KEY BOARD BOARD

< CAPACITOR >

C821	1-164-156-11	CERAMIC CHIP 0.1uF	25V			
C822	1-164-156-11	CERAMIC CHIP 0.1uF	25V			
C823	1-126-935-11	ELECT 470uF 20%	16V			

< CONNECTOR >

* CNP503	1-568-942-11	PIN, CONNECTOR 4P				
J821	1-785-945-11	CONNECTOR, DIN (KEYBOARD)				

< FILTER >

L821	1-424-122-11	FILTER, NOISE				
L822	1-424-122-11	FILTER, NOISE				
L823	1-424-122-11	FILTER, NOISE				
L824	1-424-122-11	FILTER, NOISE				

LED BOARD

< CAPACITOR >

C801	1-164-156-11	CERAMIC CHIP 0.1uF	25V			
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< CONNECTOR >

CNP504	1-785-328-11	PIN, CONNECTOR (LIGHT ANGRE) 2P				
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< LED >

D801	6-500-329-01	LED SELU5E23C-PTP15				
			(TABLE ILLUMINATION)			

< RESISTOR >

R801	1-216-805-11	METAL CHIP 47 5%	1/10W			
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LOADING MOTOR BOARD

LOADING SW BOARD

< SWITCH >

S621	1-786-154-11	LEVER SLIDE SWITCH (LOADING DETECT)				
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DVP-CX995V

LOCK SW MB

Ref. No.	Part No.	Description	Remark			
		LOCK SW BOARD	*****			
		< SWITCH >				
S622	1-771-604-11	SWITCH, DETECTION (LOCK)	*****			
		A-1132-163-A MB BOARD, COMPLETE	*****			
		< CAPACITOR >				
C102	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	
C103	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C104	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C105	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C106	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	
C107	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	
C108	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	
C109	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	
C110	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	
C111	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	
C112	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C113	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C114	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C115	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C116	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V	
C117	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C118	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C119	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C120	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C121	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V	
C122	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C123	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C124	1-124-778-00	ELECT CHIP	22uF	20%	6.3V	
C125	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C126	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	
C127	1-124-778-00	ELECT CHIP	22uF	20%	6.3V	
C128	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C129	1-124-778-00	ELECT CHIP	22uF	20%	6.3V	
C130	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C131	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C132	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C133	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C134	1-126-205-11	ELECT CHIP	47uF	20%	6.3V	
C135	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C136	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V	
C137	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C138	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C139	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C141	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C142	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	
C144	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C145	1-124-778-00	ELECT CHIP	22uF	20%	6.3V	
C146	1-131-661-21	ELECT CHIP	100uF	20%	10V	
C147	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C149	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C150	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C151	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	

Ref. No.	Part No.	Description	Remark			
C153	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C154	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C155	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C156	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C158	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C159	1-124-778-00	ELECT CHIP	22uF	20%	6.3V	
C163	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C164	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C165	1-126-204-11	ELECT CHIP	47uF	20%	16V	
C166	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C167	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C170	1-162-918-11	CERAMIC CHIP	18PF	5%	50V	
C171	1-126-205-11	ELECT CHIP	47uF	20%	6.3V	
C172	1-162-912-11	CERAMIC CHIP	7PF	0.5PF	50V	
C173	1-126-205-11	ELECT CHIP	47uF	20%	6.3V	
C174	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C175	1-162-924-11	CERAMIC CHIP	56PF	5%	50V	
C176	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C177	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	
C178	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V	
C179	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C182	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C184	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C185	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C186	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	
C187	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C188	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	
C189	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V	
C190	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V	
C191	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	
C194	1-124-778-00	ELECT CHIP	22uF	20%	6.3V	
C195	1-124-778-00	ELECT CHIP	22uF	20%	6.3V	
C196	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C201	1-162-909-11	CERAMIC CHIP	4PF	0.25PF	50V	
C202	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C203	1-162-909-11	CERAMIC CHIP	4PF	0.25PF	50V	
C204	1-126-208-21	ELECT CHIP	47uF	20%	4V	
C205	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C206	1-126-208-21	ELECT CHIP	47uF	20%	4V	
C207	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C208	1-124-778-00	ELECT CHIP	22uF	20%	6.3V	
C209	1-126-208-21	ELECT CHIP	47uF	20%	4V	
C210	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C211	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C212	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C213	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C214	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C215	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C216	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C217	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C218	1-126-208-21	ELECT CHIP	47uF	20%	4V	
C219	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C220	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C221	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C222	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C223	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C224	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C225	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
C226	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		C327	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C227	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		C328	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C228	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		C402	1-126-208-21	ELECT CHIP	47uF	20%	4V	
C229	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V								
C230	1-126-208-21	ELECT CHIP	47uF	20%	4V		C403	1-126-208-21	ELECT CHIP	47uF	20%	4V	
							C404	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C231	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		C405	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C232	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		C409	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C233	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		C410	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C234	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V								
C235	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V		C411	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
							C412	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C236	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		C413	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C237	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V		C414	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C238	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		C415	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C239	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V								
C240	1-162-927-11	CERAMIC CHIP	100PF	5%	50V		C416	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
							C417	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C241	1-162-927-11	CERAMIC CHIP	100PF	5%	50V		C418	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C242	1-124-778-00	ELECT CHIP	22uF	20%	6.3V		C419	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C243	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		C420	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C244	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V								
C245	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		C421	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
							C422	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C246	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		C423	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C247	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		C424	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C248	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		C425	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C249	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V								
C250	1-126-246-11	ELECT CHIP	220uF	20%	4V		C426	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
							C428	1-126-208-21	ELECT CHIP	47uF	20%	4V	
C251	1-126-206-11	ELECT CHIP	100uF	20%	6.3V		C429	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C252	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		C501	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C253	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		C502	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C254	1-164-315-11	CERAMIC CHIP	470PF	5%	50V								
C255	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		C503	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
							C505	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	
C257	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		C507	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	
C258	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V				< CONNECTOR >				
C259	1-126-208-21	ELECT CHIP	47uF	20%	4V								
C262	1-126-206-11	ELECT CHIP	100uF	20%	6.3V		CN101	1-784-879-21	CONNECTOR, FFC (LIF (NON-ZIF)) 31P				
C263	1-126-246-11	ELECT CHIP	220uF	20%	4V		CN102	1-573-768-21	PIN, CONNECTOR 5P				
							CN203	1-816-296-21	PIN, CONNECTOR (PC BOARD) 9P				
C264	1-126-206-11	ELECT CHIP	100uF	20%	6.3V		CN205	1-784-881-21	CONNECTOR, FFC (LIF (NON-ZIF)) 33P				
C265	1-126-204-11	ELECT CHIP	47uF	20%	16V		CN301	1-691-550-21	PIN, CONNECTOR 3P				
C266	1-126-208-21	ELECT CHIP	47uF	20%	4V								
C301	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		CN303	1-784-875-21	CONNECTOR, FFC (LIF (NON-ZIF)) 25P				
C305	1-162-927-11	CERAMIC CHIP	100PF	5%	50V		CN304	1-760-388-21	PIN, CONNECTOR 9P				
							CN305	1-695-223-21	PIN, CONNECTOR 10P				
C307	1-115-156-11	CERAMIC CHIP	1uF		10V		CN307	1-580-057-21	PIN, CONNECTOR 4P				
C309	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		CN501	1-784-836-21	CONNECTOR, FFC (LIF (NON-ZIF)) 29P				
C310	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V								
C311	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V				< DIODE >				
C313	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V								
							D101	8-719-049-09	DIODE 1SS367-T3SONY				
C314	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V		D102	8-719-988-61	DIODE 1SS355TE-17				
C315	1-126-208-21	ELECT CHIP	47uF	20%	4V		D202	8-719-049-09	DIODE 1SS367-T3SONY				
C316	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		D301	8-719-988-61	DIODE 1SS355TE-17				
C317	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		D501	8-719-914-44	DIODE DAP202K				
C319	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V								
							D502	8-719-914-44	DIODE DAP202K				
C320	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		D503	8-719-914-44	DIODE DAP202K				
C321	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V				< FERRITE BEAD/JUMPER RESISTOR >				
C322	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V								
C323	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		FB201	1-469-324-21	FERRITE, EMI (SMD) (2012)				
C324	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		FB202	1-469-324-21	FERRITE, EMI (SMD) (2012)				
							FB203	1-469-324-21	FERRITE, EMI (SMD) (2012)				
C325	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		FB204	1-469-324-21	FERRITE, EMI (SMD) (2012)				
C326	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V								

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
FB205	1-469-324-21	FERRITE, EMI (SMD) (2012)		L106	1-414-392-41	INDUCTOR 1uH	
FB206	1-469-324-21	FERRITE, EMI (SMD) (2012)		L108	1-414-392-41	INDUCTOR 1uH	
FB207	1-469-324-21	FERRITE, EMI (SMD) (2012)		L201	1-414-392-41	INDUCTOR 1uH	
FB208	1-469-324-21	FERRITE, EMI (SMD) (2012)		L202	1-414-392-41	INDUCTOR 1uH	
FB209	1-469-324-21	FERRITE, EMI (SMD) (2012)		L203	1-414-398-11	INDUCTOR 10uH	
FB210	1-469-324-21	FERRITE, EMI (SMD) (2012)		L401	1-414-398-11	INDUCTOR 10uH	
FB211	1-216-864-11	SHORT CHIP 0		< TRANSISTOR >			
FB212	1-216-864-11	SHORT CHIP 0		Q101	8-729-903-46	TRANSISTOR 2SB1132-P	
FB213	1-216-864-11	SHORT CHIP 0		Q102	6-550-545-01	TRANSISTOR 2SC4617FTLQ	
FB214	1-216-864-11	SHORT CHIP 0		Q103	8-729-903-46	TRANSISTOR 2SB1132-P	
FB215	1-216-864-11	SHORT CHIP 0		Q104	6-550-545-01	TRANSISTOR 2SC4617FTLQ	
FB216	1-216-864-11	SHORT CHIP 0		Q105	8-729-034-50	TRANSISTOR KTA1504	
FB217	1-216-864-11	SHORT CHIP 0		Q301	8-729-230-49	TRANSISTOR 2SC2712-YG	
FB219	1-216-864-11	SHORT CHIP 0		Q302	8-729-230-49	TRANSISTOR 2SC2712-YG	
FB220	1-216-864-11	SHORT CHIP 0		Q303	8-729-027-43	TRANSISTOR DTC114EKA-T146	
FB221	1-216-864-11	SHORT CHIP 0		Q304	8-729-027-28	TRANSISTOR DTA123EKA-T146	
< FILTER >				Q305	8-729-027-38	TRANSISTOR DTA144EKA-T146	
FL201	1-234-177-21	FILTER, CHIP EMI		Q306	8-729-027-38	TRANSISTOR DTA144EKA-T146	
FL202	1-234-177-21	FILTER, CHIP EMI		Q307	8-729-027-43	TRANSISTOR DTC114EKA-T146	
FL203	1-234-177-21	FILTER, CHIP EMI		< RESISTOR/CAPACITOR/FERRITE BEAD >			
FL204	1-234-177-21	FILTER, CHIP EMI		R101	1-216-809-11	METAL CHIP 100 5% 1/10W	
FL205	1-234-177-21	FILTER, CHIP EMI		R102	1-216-809-11	METAL CHIP 100 5% 1/10W	
FL206	1-234-177-21	FILTER, CHIP EMI		R103	1-216-809-11	METAL CHIP 100 5% 1/10W	
FL207	1-234-177-21	FILTER, CHIP EMI		R104	1-216-809-11	METAL CHIP 100 5% 1/10W	
FL208	1-233-893-21	FILTER, CHIP EMI		R105	1-216-809-11	METAL CHIP 100 5% 1/10W	
FL209	1-234-177-21	FILTER, CHIP EMI		R106	1-216-809-11	METAL CHIP 100 5% 1/10W	
FL401	1-234-177-21	FILTER, CHIP EMI		R107	1-216-809-11	METAL CHIP 100 5% 1/10W	
FL402	1-234-177-21	FILTER, CHIP EMI		R108	1-218-871-11	METAL CHIP 10K 0.5% 1/10W	
< IC >				R109	1-218-871-11	METAL CHIP 10K 0.5% 1/10W	
* IC101	6-704-542-01	IC LMV324MTX/NOPB		R110	1-216-801-11	METAL CHIP 22 5% 1/10W	
IC102	6-702-157-01	IC FAN8035L		R111	1-216-833-11	METAL CHIP 10K 5% 1/10W	
IC103	8-759-460-76	IC BA07FP-E2		R112	1-216-833-11	METAL CHIP 10K 5% 1/10W	
IC104	6-708-022-01	IC STE6317ATXXY		R113	1-216-833-11	METAL CHIP 10K 5% 1/10W	
IC201	8-759-660-27	IC SN74HCU04APWR		R114	1-216-833-11	METAL CHIP 10K 5% 1/10W	
IC202	(Not supplied)	IC M29W320ET70N6E-M005		R115	1-216-833-11	METAL CHIP 10K 5% 1/10W	
IC203	6-708-493-01	IC HY57V281620ETP-HDR		R116	1-216-833-11	METAL CHIP 10K 5% 1/10W	
IC204	6-805-368-01	IC M29W320ET70N6E		R117	1-216-801-11	METAL CHIP 22 5% 1/10W	
IC205	6-708-023-01	IC STE5588CVB		R118	1-216-833-11	METAL CHIP 10K 5% 1/10W	
IC206	8-759-548-99	IC SN74LV08APWR		R119	1-218-840-11	METAL CHIP 510 0.5% 1/10W	
IC207	6-700-398-01	IC uPC2918T-E1		R120	1-218-840-11	METAL CHIP 510 0.5% 1/10W	
IC208	8-759-583-47	IC uPC2933T-E2		R121	1-218-840-11	METAL CHIP 510 0.5% 1/10W	
IC209	8-759-549-20	IC SN74LV541APWR		R122	1-218-840-11	METAL CHIP 510 0.5% 1/10W	
IC302	8-759-350-42	IC PST9127NL		R123	1-218-840-11	METAL CHIP 510 0.5% 1/10W	
IC304	6-805-432-01	IC uPD703260-YGF-S30-JBT-A		R124	1-219-724-11	METAL CHIP 1 1% 1/4W	
IC305	8-759-350-42	IC PST9127NL		R125	1-218-878-11	METAL CHIP 20K 0.5% 1/10W	
IC306	6-704-158-01	IC S-80827CNUA-B8MT2G		R126	1-216-814-11	METAL CHIP 270 5% 1/10W	
IC401	6-708-020-01	IC SAA7893HL		R127	1-216-813-11	METAL CHIP 220 5% 1/10W	
IC403	6-708-494-01	IC HY57V641620ETP-HDR		R128	1-218-882-11	METAL CHIP 30K 0.5% 1/10W	
IC501	6-704-222-01	IC AK4358VQ-L		R129	1-216-821-11	METAL CHIP 1K 5% 1/10W	
< COIL >				R130	1-218-867-11	METAL CHIP 6.8K 0.5% 1/10W	
L101	1-414-398-11	INDUCTOR 10uH		R131	1-216-841-11	METAL CHIP 47K 5% 1/10W	
L102	1-410-389-31	INDUCTOR 47uH		R132	1-216-833-11	METAL CHIP 10K 5% 1/10W	
L103	1-410-389-31	INDUCTOR 47uH		R133	1-216-841-11	METAL CHIP 47K 5% 1/10W	
L104	1-414-398-11	INDUCTOR 10uH		R134	1-216-833-11	METAL CHIP 10K 5% 1/10W	
L105	1-414-394-41	INDUCTOR 2.2uH		R135	1-218-863-11	METAL CHIP 4.7K 0.5% 1/10W	

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R136	1-218-863-11	METAL CHIP	4.7K	0.5%	1/10W	R194	1-216-864-11	SHORT CHIP	0		
R137	1-216-833-11	METAL CHIP	10K	5%	1/10W	R196	1-216-833-11	METAL CHIP	10K	5%	1/10W
R138	1-216-833-11	METAL CHIP	10K	5%	1/10W	R197	1-216-833-11	METAL CHIP	10K	5%	1/10W
R139	1-216-801-11	METAL CHIP	22	5%	1/10W	R201	1-216-857-11	METAL CHIP	1M	5%	1/10W
R140	1-218-863-11	METAL CHIP	4.7K	0.5%	1/10W	R202	1-216-811-11	METAL CHIP	150	5%	1/10W
R141	1-216-833-11	METAL CHIP	10K	5%	1/10W	R203	1-216-805-11	METAL CHIP	47	5%	1/10W
R142	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	R204	1-216-864-11	SHORT CHIP	0		
R143	1-216-833-11	METAL CHIP	10K	5%	1/10W	R205	1-216-805-11	METAL CHIP	47	5%	1/10W
R144	1-218-863-11	METAL CHIP	4.7K	0.5%	1/10W	R206	1-216-864-11	SHORT CHIP	0		
R145	1-216-801-11	METAL CHIP	22	5%	1/10W	R207	1-216-864-11	SHORT CHIP	0		
R146	1-216-864-11	SHORT CHIP	0			R208	1-216-864-11	SHORT CHIP	0		
R147	1-218-881-11	METAL CHIP	27K	0.5%	1/10W	R209	1-216-833-11	METAL CHIP	10K	5%	1/10W
R148	1-218-880-11	METAL CHIP	24K	0.5%	1/10W	R210	1-216-864-11	SHORT CHIP	0		
R149	1-216-805-11	METAL CHIP	47	5%	1/10W	R211	1-216-833-11	METAL CHIP	10K	5%	1/10W
R150	1-216-814-11	METAL CHIP	270	5%	1/10W	R212	1-216-833-11	METAL CHIP	10K	5%	1/10W
R151	1-216-813-11	METAL CHIP	220	5%	1/10W	R213	1-216-864-11	SHORT CHIP	0		
R152	1-216-805-11	METAL CHIP	47	5%	1/10W	R214	1-216-833-11	METAL CHIP	10K	5%	1/10W
R153	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	R215	1-216-864-11	SHORT CHIP	0		
R154	1-216-805-11	METAL CHIP	47	5%	1/10W	R216	1-216-833-11	METAL CHIP	10K	5%	1/10W
R155	1-218-879-11	METAL CHIP	22K	0.5%	1/10W	R217	1-216-833-11	METAL CHIP	10K	5%	1/10W
R156	1-218-879-11	METAL CHIP	22K	0.5%	1/10W	R218	1-216-864-11	SHORT CHIP	0		
R157	1-216-805-11	METAL CHIP	47	5%	1/10W	R219	1-216-833-11	METAL CHIP	10K	5%	1/10W
R158	1-216-805-11	METAL CHIP	47	5%	1/10W	R220	1-216-864-11	SHORT CHIP	0		
R159	1-216-805-11	METAL CHIP	47	5%	1/10W	R221	1-216-833-11	METAL CHIP	10K	5%	1/10W
R160	1-218-879-11	METAL CHIP	22K	0.5%	1/10W	R222	1-216-864-11	SHORT CHIP	0		
R161	1-218-875-11	METAL CHIP	15K	0.5%	1/10W	R223	1-216-864-11	SHORT CHIP	0		
R162	1-218-889-11	METAL CHIP	56K	0.5%	1/10W	R224	1-216-833-11	METAL CHIP	10K	5%	1/10W
R163	1-218-889-11	METAL CHIP	56K	0.5%	1/10W	R225	1-216-805-11	METAL CHIP	47	5%	1/10W
R164	1-216-805-11	METAL CHIP	47	5%	1/10W	R226	1-216-805-11	METAL CHIP	47	5%	1/10W
R165	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	R227	1-216-833-11	METAL CHIP	10K	5%	1/10W
R166	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	R228	1-216-833-11	METAL CHIP	10K	5%	1/10W
R167	1-218-883-11	METAL CHIP	33K	0.5%	1/10W	R229	1-216-805-11	METAL CHIP	47	5%	1/10W
R168	1-218-883-11	METAL CHIP	33K	0.5%	1/10W	R230	1-216-805-11	METAL CHIP	47	5%	1/10W
R169	1-216-864-11	SHORT CHIP	0			R231	1-216-864-11	SHORT CHIP	0		
R170	1-216-864-11	SHORT CHIP	0			R232	1-216-797-11	METAL CHIP	10	5%	1/10W
R171	1-216-845-11	METAL CHIP	100K	5%	1/10W	R233	1-216-805-11	METAL CHIP	47	5%	1/10W
R172	1-216-845-11	METAL CHIP	100K	5%	1/10W	R234	1-216-833-11	METAL CHIP	10K	5%	1/10W
R173	1-216-789-11	METAL CHIP	2.2	5%	1/10W	R235	1-216-805-11	METAL CHIP	47	5%	1/10W
R174	1-216-821-11	METAL CHIP	1K	5%	1/10W	R236	1-216-805-11	METAL CHIP	47	5%	1/10W
R175	1-216-833-11	METAL CHIP	10K	5%	1/10W	R237	1-216-805-11	METAL CHIP	47	5%	1/10W
R176	1-216-833-11	METAL CHIP	10K	5%	1/10W	R238	1-216-805-11	METAL CHIP	47	5%	1/10W
R177	1-216-809-11	METAL CHIP	100	5%	1/10W	R239	1-216-805-11	METAL CHIP	47	5%	1/10W
R178	1-218-873-11	METAL CHIP	12K	0.5%	1/10W	R240	1-216-805-11	METAL CHIP	47	5%	1/10W
R179	1-218-843-11	METAL CHIP	680	0.5%	1/10W	R241	1-216-805-11	METAL CHIP	47	5%	1/10W
R180	1-219-724-11	METAL CHIP	1	1%	1/4W	R242	1-216-841-11	METAL CHIP	47K	5%	1/10W
R181	1-216-833-11	METAL CHIP	10K	5%	1/10W	R243	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R182	1-219-724-11	METAL CHIP	1	1%	1/4W	R244	1-216-805-11	METAL CHIP	47	5%	1/10W
R183	1-216-833-11	METAL CHIP	10K	5%	1/10W	R245	1-216-805-11	METAL CHIP	47	5%	1/10W
R184	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R246	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R185	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R247	1-216-805-11	METAL CHIP	47	5%	1/10W
R186	1-216-833-11	METAL CHIP	10K	5%	1/10W	R248	1-216-805-11	METAL CHIP	47	5%	1/10W
R187	1-216-833-11	METAL CHIP	10K	5%	1/10W	R249	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R188	1-216-837-11	METAL CHIP	22K	5%	1/10W	R250	1-216-805-11	METAL CHIP	47	5%	1/10W
R189	1-216-837-11	METAL CHIP	22K	5%	1/10W	R251	1-216-805-11	METAL CHIP	47	5%	1/10W
R190	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R252	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R192	1-219-570-11	METAL CHIP	10M	5%	1/10W	R253	1-216-805-11	METAL CHIP	47	5%	1/10W
R193	1-219-724-11	METAL CHIP	1	1%	1/4W	R254	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
						R255	1-216-805-11	METAL CHIP	47	5%	1/10W

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Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R256	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R328	1-216-833-11	METAL CHIP	10K	5%	1/10W
R257	1-216-805-11	METAL CHIP	47	5%	1/10W	R330	1-216-833-11	METAL CHIP	10K	5%	1/10W
R258	1-216-805-11	METAL CHIP	47	5%	1/10W	R331	1-216-833-11	METAL CHIP	10K	5%	1/10W
R259	1-216-864-11	SHORT CHIP	0			R332	1-216-833-11	METAL CHIP	10K	5%	1/10W
R260	1-216-805-11	METAL CHIP	47	5%	1/10W	R333	1-216-864-11	SHORT CHIP	0		
R261	1-216-797-11	METAL CHIP	10	5%	1/10W	R334	1-216-833-11	METAL CHIP	10K	5%	1/10W
R262	1-216-824-11	METAL CHIP	1.8K	5%	1/10W	R337	1-216-833-11	METAL CHIP	10K	5%	1/10W
R263	1-216-824-11	METAL CHIP	1.8K	5%	1/10W	R338	1-216-833-11	METAL CHIP	10K	5%	1/10W
R264	1-216-797-11	METAL CHIP	10	5%	1/10W	R341	1-216-853-11	METAL CHIP	470K	5%	1/10W
R265	1-216-797-11	METAL CHIP	10	5%	1/10W	R342	1-216-864-11	SHORT CHIP	0		
R266	1-216-805-11	METAL CHIP	47	5%	1/10W	R344	1-216-833-11	METAL CHIP	10K	5%	1/10W
R267	1-216-833-11	METAL CHIP	10K	5%	1/10W	R345	1-216-833-11	METAL CHIP	10K	5%	1/10W
R268	1-216-805-11	METAL CHIP	47	5%	1/10W	R346	1-216-833-11	METAL CHIP	10K	5%	1/10W
R269	1-216-805-11	METAL CHIP	47	5%	1/10W	R347	1-216-833-11	METAL CHIP	10K	5%	1/10W
R270	1-218-285-11	METAL CHIP	75	5%	1/10W	R348	1-216-833-11	METAL CHIP	10K	5%	1/10W
R271	1-218-285-11	METAL CHIP	75	5%	1/10W	R349	1-216-864-11	SHORT CHIP	0		
R272	1-216-805-11	METAL CHIP	47	5%	1/10W	R350	1-216-833-11	METAL CHIP	10K	5%	1/10W
R273	1-216-805-11	METAL CHIP	47	5%	1/10W	R351	1-216-810-11	METAL CHIP	120	5%	1/10W
R274	1-216-805-11	METAL CHIP	47	5%	1/10W	R352	1-216-803-11	METAL CHIP	33	5%	1/10W
R275	1-216-805-11	METAL CHIP	47	5%	1/10W	R353	1-216-833-11	METAL CHIP	10K	5%	1/10W
R276	1-216-805-11	METAL CHIP	47	5%	1/10W	R354	1-216-833-11	METAL CHIP	10K	5%	1/10W
R277	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	R356	1-216-864-11	SHORT CHIP	0		
R278	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	R358	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R279	1-216-805-11	METAL CHIP	47	5%	1/10W	R360	1-216-833-11	METAL CHIP	10K	5%	1/10W
R280	1-216-805-11	METAL CHIP	47	5%	1/10W	R361	1-216-833-11	METAL CHIP	10K	5%	1/10W
R281	1-216-805-11	METAL CHIP	47	5%	1/10W	R362	1-216-833-11	METAL CHIP	10K	5%	1/10W
R285	1-216-826-11	METAL CHIP	2.7K	5%	1/10W	R366	1-216-833-11	METAL CHIP	10K	5%	1/10W
R289	1-216-805-11	METAL CHIP	47	5%	1/10W	R368	1-216-864-11	SHORT CHIP	0		
R296	1-216-833-11	METAL CHIP	10K	5%	1/10W	R369	1-216-864-11	SHORT CHIP	0		
R297	1-216-826-11	METAL CHIP	2.7K	5%	1/10W	R370	1-216-833-11	METAL CHIP	10K	5%	1/10W
R298	1-216-797-11	METAL CHIP	10	5%	1/10W	R371	1-216-833-11	METAL CHIP	10K	5%	1/10W
R299	1-216-826-11	METAL CHIP	2.7K	5%	1/10W	R372	1-216-864-11	SHORT CHIP	0		
R300	1-216-797-11	METAL CHIP	10	5%	1/10W	R381	1-216-809-11	METAL CHIP	100	5%	1/10W
R301	1-216-833-11	METAL CHIP	10K	5%	1/10W	R407	1-216-809-11	METAL CHIP	100	5%	1/10W
R302	1-216-864-11	SHORT CHIP	0			R414	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
R303	1-216-864-11	SHORT CHIP	0			R415	1-216-834-11	METAL CHIP	12K	5%	1/10W
R304	1-216-864-11	SHORT CHIP	0			R417	1-216-833-11	METAL CHIP	10K	5%	1/10W
R305	1-216-801-11	METAL CHIP	22	5%	1/10W	R418	1-216-864-11	SHORT CHIP	0		
R306	1-216-801-11	METAL CHIP	22	5%	1/10W	R421	1-216-805-11	METAL CHIP	47	5%	1/10W
R307	1-216-801-11	METAL CHIP	22	5%	1/10W	R424	1-216-821-11	METAL CHIP	1K	5%	1/10W
R308	1-216-833-11	METAL CHIP	10K	5%	1/10W	R425	1-216-833-11	METAL CHIP	10K	5%	1/10W
R309	1-216-801-11	METAL CHIP	22	5%	1/10W	R428	1-216-833-11	METAL CHIP	10K	5%	1/10W
R310	1-216-809-11	METAL CHIP	100	5%	1/10W	R429	1-216-864-11	SHORT CHIP	0		
R311	1-216-801-11	METAL CHIP	22	5%	1/10W	R501	1-216-864-11	SHORT CHIP	0		
R312	1-216-809-11	METAL CHIP	100	5%	1/10W	R505	1-216-797-11	METAL CHIP	10	5%	1/10W
R313	1-216-801-11	METAL CHIP	22	5%	1/10W	R506	1-216-864-11	SHORT CHIP	0		
R314	1-216-833-11	METAL CHIP	10K	5%	1/10W	R508	1-216-864-11	SHORT CHIP	0		
R315	1-216-841-11	METAL CHIP	47K	5%	1/10W	R510	1-216-864-11	SHORT CHIP	0		
R316	1-216-841-11	METAL CHIP	47K	5%	1/10W	R613	1-216-864-11	SHORT CHIP	0		
R317	1-216-845-11	METAL CHIP	100K	5%	1/10W	R615	1-216-864-11	SHORT CHIP	0		
R318	1-216-833-11	METAL CHIP	10K	5%	1/10W	R616	1-216-864-11	SHORT CHIP	0		
R319	1-216-864-11	SHORT CHIP	0			R617	1-216-864-11	SHORT CHIP	0		
R321	1-216-833-11	METAL CHIP	10K	5%	1/10W	R618	1-216-864-11	SHORT CHIP	0		
R322	1-216-864-11	SHORT CHIP	0			R619	1-216-864-11	SHORT CHIP	0		
R325	1-216-809-11	METAL CHIP	100	5%	1/10W	R641	1-216-864-11	SHORT CHIP	0		
R326	1-216-809-11	METAL CHIP	100	5%	1/10W	R642	1-216-864-11	SHORT CHIP	0		
R327	1-216-845-11	METAL CHIP	100K	5%	1/10W	R1001	1-216-805-11	METAL CHIP	47	5%	1/10W
						R1002	1-216-833-11	METAL CHIP	10K	5%	1/10W

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R1003	1-216-833-11	METAL CHIP	10K	5%	1/10W	RB212	1-234-371-21	RES, NETWORK	47 (1005X4)		
R1004	1-216-833-11	METAL CHIP	10K	5%	1/10W	RB213	1-234-371-21	RES, NETWORK	47 (1005X4)		
R1005	1-216-833-11	METAL CHIP	10K	5%	1/10W	RB214	1-242-962-21	RES, NETWORK	82X4 (1005)		
R1006	1-216-833-11	METAL CHIP	10K	5%	1/10W	RB215	1-234-369-21	RES, NETWORK	10 (1005X4)		
R1007	1-216-833-11	METAL CHIP	10K	5%	1/10W						
						RB216	1-234-369-21	RES, NETWORK	10 (1005X4)		
R1014	1-216-805-11	METAL CHIP	47	5%	1/10W	RB401	1-234-702-11	RES, NETWORK	68 (1005X4)		
R1015	1-216-805-11	METAL CHIP	47	5%	1/10W	RB402	1-234-702-11	RES, NETWORK	68 (1005X4)		
R1019	1-216-833-11	METAL CHIP	10K	5%	1/10W	RB403	1-234-702-11	RES, NETWORK	68 (1005X4)		
R1020	1-216-789-11	METAL CHIP	2.2	5%	1/10W	RB404	1-234-702-11	RES, NETWORK	68 (1005X4)		
R1022	1-216-864-11	SHORT CHIP	0					< VARIABLE RESISTOR >			
						RV301	1-223-587-11	RES, ADJ, CARBON	22K		
R1023	1-216-864-11	SHORT CHIP	0					< VIBRATOR >			
R1024	1-216-801-11	METAL CHIP	22	5%	1/10W						
R1025	1-216-864-11	SHORT CHIP	0			X201	1-795-630-11	VIBRATOR, CRYSTAL (27MHz)			
R1027	1-216-805-11	METAL CHIP	47	5%	1/10W	X301	1-795-121-21	VIBRATOR, CERAMIC (5MHz)			
R1028	1-216-845-11	METAL CHIP	100K	5%	1/10W			*****			
								A-1076-700-A	PANEL-L BOARD, COMPLETE		
R1029	1-216-864-11	SHORT CHIP	0					*****			
R1033	1-216-864-11	SHORT CHIP	0								
R1034	1-216-864-11	SHORT CHIP	0					4-246-508-01	HOLDER (FL)		
R1035	1-216-833-11	METAL CHIP	10K	5%	1/10W			4-949-935-41	CUSHION (FL)		
R1036	1-216-833-11	METAL CHIP	10K	5%	1/10W			< CAPACITOR >			
R1038	1-216-833-11	METAL CHIP	10K	5%	1/10W	C1031	1-164-156-11	CERAMIC CHIP	0.1uF	25V	
R1039	1-216-864-11	SHORT CHIP	0			C1032	1-164-156-11	CERAMIC CHIP	0.1uF	25V	
R1040	1-216-864-11	SHORT CHIP	0			C1034	1-164-156-11	CERAMIC CHIP	0.1uF	25V	
R1041	1-216-864-11	SHORT CHIP	0			C1035	1-164-156-11	CERAMIC CHIP	0.1uF	25V	
R1042	1-216-864-11	SHORT CHIP	0			C1036	1-162-922-11	CERAMIC CHIP	39PF	5%	50V
R1043	1-216-833-11	METAL CHIP	10K	5%	1/10W	C1037	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
R1047	1-400-330-21	INDUCTOR, FERRITE BEAD (1608)				C1038	1-124-589-11	ELECT	47uF	20%	16V
R1048	1-400-330-21	INDUCTOR, FERRITE BEAD (1608)				C1039	1-124-589-11	ELECT	47uF	20%	16V
R1049	1-400-330-21	INDUCTOR, FERRITE BEAD (1608)				C1040	1-164-156-11	CERAMIC CHIP	0.1uF	25V	
R1050	1-400-330-21	INDUCTOR, FERRITE BEAD (1608)				C1042	1-164-156-11	CERAMIC CHIP	0.1uF	25V	
R1051	1-400-330-21	INDUCTOR, FERRITE BEAD (1608)				C1043	1-164-156-11	CERAMIC CHIP	0.1uF	25V	
R1052	1-400-330-21	INDUCTOR, FERRITE BEAD (1608)				C1044	1-164-156-11	CERAMIC CHIP	0.1uF	25V	
R1053	1-400-330-21	INDUCTOR, FERRITE BEAD (1608)				C1051	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
R1054	1-400-330-21	INDUCTOR, FERRITE BEAD (1608)				C1052	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
R1055	1-500-283-11	INDUCTOR, FERRITE BEAD				C1053	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
R1056	1-218-285-11	METAL CHIP	75	5%	1/10W	C1081	1-128-131-11	ELECT	22uF	20%	50V
R1057	1-216-809-11	METAL CHIP	100	5%	1/10W	C1082	1-137-150-11	FILM	0.01uF	5%	100V
R1058	1-216-809-11	METAL CHIP	100	5%	1/10W	C1083	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
R1059	1-216-805-11	METAL CHIP	47	5%	1/10W	C1085	1-128-131-11	ELECT	22uF	20%	50V
R1060	1-216-805-11	METAL CHIP	47	5%	1/10W	C1086	1-128-131-11	ELECT	22uF	20%	50V
R1061	1-216-809-11	METAL CHIP	100	5%	1/10W	C1087	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
R1062	1-216-809-11	METAL CHIP	100	5%	1/10W	C1088	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
R1063	1-216-809-11	METAL CHIP	100	5%	1/10W	C1089	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
R1074	1-216-805-11	METAL CHIP	47	5%	1/10W			< CONNECTOR >			
		< COMPOSITION CIRCUIT BLOCK >									
RB201	1-234-371-21	RES, NETWORK	47 (1005X4)			* CN1001	1-568-954-11	PIN, CONNECTOR 5P			
RB202	1-234-371-21	RES, NETWORK	47 (1005X4)			* CN1002	1-568-936-11	PIN, CONNECTOR 9P			
RB203	1-234-371-21	RES, NETWORK	47 (1005X4)			CN1003	1-779-293-11	CONNECTOR, FFC (LIF (NON-ZIF)) 25P			
RB204	1-242-962-21	RES, NETWORK	82X4 (1005)					< DIODE >			
RB205	1-234-371-21	RES, NETWORK	47 (1005X4)								
RB206	1-234-371-21	RES, NETWORK	47 (1005X4)			D1001	6-500-647-01	LED SEL5E20C-STP15 (HDMI)			
RB207	1-242-962-21	RES, NETWORK	82X4 (1005)			D1002	6-500-647-01	LED SEL5E20C-STP15 (SA-CD)			
RB208	1-234-371-21	RES, NETWORK	47 (1005X4)			D1003	6-500-647-01	LED SEL5E20C-STP15 (MULTI CHANNEL)			
RB209	1-242-962-21	RES, NETWORK	82X4 (1005)			D1004	8-719-046-39	LED SEL5821A-TP15 (FL OFF)			
RB210	1-234-371-21	RES, NETWORK	47 (1005X4)								
RB211	1-234-371-21	RES, NETWORK	47 (1005X4)								

DVP-CX995V

PANEL-L PANEL-R

Ref. No.	Part No.	Description	Remark
D1081	8-719-041-97	DIODE MA113- (TX)	
D1082	8-719-041-97	DIODE MA113- (TX)	
D1083	8-719-041-97	DIODE MA113- (TX)	
D1084	8-719-041-97	DIODE MA113- (TX)	
D1085	8-719-083-71	DIODE UdzSTE-1730B	
D1086	8-719-069-56	DIODE UdzSTE-176.2B	
		< JUMPER RESISTOR >	
FB1001	1-216-864-11	SHORT CHIP 0	
		< FLUORESCENT INDICATOR TUBE >	
FL1001	1-519-787-11	INDICATOR TUBE, FLUORESCENT	
		< IC >	
IC1001	8-759-680-17	IC MSM9201-04GS-K	
IC1002	8-759-826-34	IC NJL74H400A	
		< COIL >	
L1081	1-400-096-21	INDUCTOR 47uH	
L1082	1-400-096-21	INDUCTOR 47uH	
		< TRANSISTOR >	
Q1001	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q1002	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q1003	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q1004	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q1006	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q1007	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q1008	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q1009	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q1010	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1081	8-729-808-01	TRANSISTOR 2SD1622-S	
Q1082	8-729-808-01	TRANSISTOR 2SD1622-S	
Q1083	8-729-804-41	TRANSISTOR 2SB1122-S	
		< RESISTOR >	
R1001	1-216-827-11	METAL CHIP 3.3K 5% 1/10W	
R1002	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R1003	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1004	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R1005	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R1006	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R1007	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R1008	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R1011	1-216-805-11	METAL CHIP 47 5% 1/10W	
R1012	1-216-805-11	METAL CHIP 47 5% 1/10W	
R1013	1-216-805-11	METAL CHIP 47 5% 1/10W	
R1014	1-216-811-11	METAL CHIP 150 5% 1/10W	
R1021	1-216-864-11	SHORT CHIP 0	
R1022	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R1023	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R1024	1-216-801-11	METAL CHIP 22 5% 1/10W	
R1025	1-216-801-11	METAL CHIP 22 5% 1/10W	
R1031	1-216-827-11	METAL CHIP 3.3K 5% 1/10W	
R1032	1-216-809-11	METAL CHIP 100 5% 1/10W	
R1033	1-216-809-11	METAL CHIP 100 5% 1/10W	

Ref. No.	Part No.	Description	Remark
R1035	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R1036	1-216-809-11	METAL CHIP 100 5% 1/10W	
R1040	1-216-864-11	SHORT CHIP 0	
R1041	1-216-864-11	SHORT CHIP 0	
R1042	1-216-864-11	SHORT CHIP 0	
R1044	1-216-797-11	METAL CHIP 10 5% 1/10W	
R1051	1-216-797-11	METAL CHIP 10 5% 1/10W	
R1052	1-216-797-11	METAL CHIP 10 5% 1/10W	
R1053	1-216-797-11	METAL CHIP 10 5% 1/10W	
R1054	1-216-797-11	METAL CHIP 10 5% 1/10W	
R1055	1-216-797-11	METAL CHIP 10 5% 1/10W	
R1056	1-216-797-11	METAL CHIP 10 5% 1/10W	
R1057	1-216-809-11	METAL CHIP 100 5% 1/10W	
R1058	1-216-809-11	METAL CHIP 100 5% 1/10W	
R1059	1-216-809-11	METAL CHIP 100 5% 1/10W	
R1061	1-216-797-11	METAL CHIP 10 5% 1/10W	
R1062	1-216-797-11	METAL CHIP 10 5% 1/10W	
R1063	1-216-797-11	METAL CHIP 10 5% 1/10W	
R1064	1-216-797-11	METAL CHIP 10 5% 1/10W	
R1065	1-216-797-11	METAL CHIP 10 5% 1/10W	
R1066	1-216-797-11	METAL CHIP 10 5% 1/10W	
R1081	1-218-867-11	METAL CHIP 6.8K 0.5% 1/10W	
R1082	1-218-867-11	METAL CHIP 6.8K 0.5% 1/10W	
R1083	1-216-828-11	METAL CHIP 3.9K 5% 1/10W	
R1084	1-216-833-11	METAL CHIP 10K 5% 1/10W	
		< SWITCH >	
S1001	1-771-410-21	SWITCH, TACTILE (FL OFF)	
S1002	1-771-410-21	SWITCH, TACTILE (TIME/TEXT)	
S1003	1-771-410-21	SWITCH, TACTILE (PICTURE MODE)	
S1004	1-771-410-21	SWITCH, TACTILE (REPEAT)	
S1006	1-771-410-21	SWITCH, TACTILE (FOLDER)	
S1007	1-771-410-21	SWITCH, TACTILE (ONE/ALL DISCS)	
S1008	1-771-410-21	SWITCH, TACTILE (I/⬇)	
S1009	1-771-410-21	SWITCH, TACTILE (LOAD)	
		< TRANSFORMER >	
T1081	1-437-887-11	TRANSFORMER, DC-DC CONVERTER	

A-1076-688-A		PANEL-R BOARD, COMPLETE	

		< CAPACITOR >	
C1199	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
		< DIODE >	
D1101	8-719-046-39	LED SEL5821A-TP15 (DISC CHANGE)	
D1102	8-719-046-41	LED SEL5521C-TP15 (DIRECT SEARCH)	
		< LEAD >	
* EP1199	1-690-880-31	LEAD (WITH CONNECTOR)	
		< SWITCH >	
JG1101	1-771-879-11	SWITCH, TACTILE (PUSH ENTER (JOG STICK))	

PANEL-R

RF TRANSLATION

SENSOR

Ref. No.	Part No.	Description	Remark			
< RESISTOR >						
R1101	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R1102	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R1103	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R1104	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R1105	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R1106	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R1107	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R1108	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R1109	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R1110	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R1111	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R1112	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R1113	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R1114	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R1115	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R1116	1-216-811-11	METAL CHIP	150	5%	1/10W	
R1117	1-216-811-11	METAL CHIP	150	5%	1/10W	
R1118	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	
< ROTARY ENCODER >						
RE1101	1-475-543-11	ENCODER, ROTARY (DISC/AMS, PUSH ENTER)				
< SWITCH >						
S1101	1-771-410-21	SWITCH, TACTILE (OPEN/CLOSE)				
S1102	1-771-410-21	SWITCH, TACTILE (≡ DISC EJECT)				
S1103	1-771-410-21	SWITCH, TACTILE (▷)				
S1104	1-771-410-21	SWITCH, TACTILE (TOP MENU)				
S1105	1-771-410-21	SWITCH, TACTILE (RETURN)				
S1106	1-771-410-21	SWITCH, TACTILE (MENU)				
S1107	1-771-410-21	SWITCH, TACTILE (■)				
S1108	1-771-410-21	SWITCH, TACTILE (▣)				
S1109	1-771-410-21	SWITCH, TACTILE (DISPLAY)				
S1110	1-771-410-21	SWITCH, TACTILE (+100)				
S1111	1-771-410-21	SWITCH, TACTILE (DISC CHANGE)				
S1112	1-771-410-21	SWITCH, TACTILE (DIRECT SEARCH)				

RF TRANSLATION BOARD						

< CONNECTOR >						
CN001	1-750-357-51	CONNECTOR, FFC/FPC (ZIF) 24P				
CN002	1-817-201-21	CONNECTOR, FFC/FPC 9P				
CN003	1-784-387-11	CONNECTOR, FFC/FPC 31P				

SENSOR BOARD						

< CAPACITOR >						
C81	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
< CONNECTOR >						
* CN81	1-506-486-11	PIN, CONNECTOR 7P				
* CN82	1-568-940-41	PIN, CONNECTOR 2P				
CN83	1-506-481-11	PIN, CONNECTOR 2P				

Ref. No.	Part No.	Description	Remark			
< PHOTO INTERRUPTER >						
IC81	8-749-924-18	PHOTO INTERRUPTER	RPI-1391			
IC82	8-749-924-18	PHOTO INTERRUPTER	RPI-1391			
IC83	8-749-924-18	PHOTO INTERRUPTER	RPI-1391			
IC84	8-749-924-18	PHOTO INTERRUPTER	RPI-1391			
< RESISTOR >						
R81	1-218-845-11	METAL CHIP	820	0.5%	1/10W	
R82	1-218-845-11	METAL CHIP	820	0.5%	1/10W	
R83	1-218-845-11	METAL CHIP	820	0.5%	1/10W	
R84	1-218-845-11	METAL CHIP	820	0.5%	1/10W	
R85	1-218-843-11	METAL CHIP	680	0.5%	1/10W	

MISCELLANEOUS						

2	1-830-199-11	WIRE, FLAT TYPE (33 CORE)				
4	1-830-198-11	WIRE, FLAT TYPE (31 CORE)				
5	1-830-200-11	WIRE, FLAT TYPE (29 CORE)				
56	1-828-394-11	WIRE (FLAT TYPE) (25 CORE)				
△ 102	1-468-894-11	REGULATOR, SWITCHING				
△ 105	1-783-820-31	CORD, POWER				
108	1-500-386-11	FILTER, CLAMP (FERRITE CORE)				
△ 501	A-1109-165-A	OPTICAL PICK-UP (DBU-3) (SERVICE ASSY)	(including spindle motor)			
505	1-824-106-51	CABLE, FLEXIBLE FLAT (0.5mm pitch)				
M601	A-4672-895-A	MOTOR (400) ASSY (TABLE)				
M602	A-4672-895-A	MOTOR (400) ASSY (LOADING)				
M603	1-541-632-12	MOTOR, DC (DOOR)				

ACCESSORIES						

1-479-273-11	COMMANDER, STANDARD (RM-ASP001)					
1-776-279-31	CORD, CONNECTION (AUDIO/VIDEO)					
2-592-134-11	MANUAL, INSTRUCTION (ENGLISH)					
2-592-134-21	MANUAL, INSTRUCTION (FRENCH) (Canadian)					
3-081-834-21	BATTERY COVER (SMK7G) (for RM-ASP001)					

REVISION HISTORY

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