

HCD-RV777D/RV888D/RV999D

SERVICE MANUAL

Ver 1.0 2004. 06

*E Model
Australian Model*



(Photo: HCD-RV888D)

- HCD-RV777D/RV888D/RV999D are the tuner, deck, DVD and amplifier section in MHC-RV777D/RV888D/RV999D.

DVD Section	Model Name Using Similar Mechanism	NEW
	DVD Mechanism Type	CDM74S-DVBU62
	Optical Pick-up Name	DBU-3
Tape Deck Section	Model Name Using Similar Machanism	HCD-RV660D/RV990D
	Tape Transport Mechanism Type	CWM43RR-35

SPECIFICATIONS

Amplifier section

HCD-RV999D

The following measured at AC 120, 127, 220, 230 – 240 V, 50/60 Hz

Continuous RMS power output (reference)

Front speaker: 100 + 100 watts
(6 ohms at 1 kHz, 10% THD)

Center speaker: 40 watts (6 ohms at 1 kHz, 10% THD)

Surround speaker: 40 + 40 watts
(6 ohms at 1 kHz, 10% THD)

Sub woofer: 110 watts (4 ohms at 1 kHz, 10% THD)

HCD-RV888D

The following measured at AC 120, 127, 220, 230 – 240 V, 50/60 Hz

Continuous RMS power output (reference)

Front speaker: 100 + 100 watts
(6 ohms at 1 kHz, 10% THD)

Center speaker: 40 watts (6 ohms at 1 kHz, 10% THD)

Surround speaker: 40 + 40 watts
(6 ohms at 1 kHz, 10% THD)

HCD-RV777D

The following measured at AC 120, 127, 220, 230 – 240 V, 50/60 Hz

Continuous RMS power output (reference)

100 + 100 watts
(6 ohms at 1 kHz, 10% THD)

Inputs

VIDEO/SAT IN (audio) (phono jacks):
voltage 450/250 mV,
impedance 47 kilohms

GAME INPUT VIDEO (phono jack):
1 Vp-p, 75 ohms

GAME INPUT AUDIO (phono jacks):
voltage 250 mV,
impedance 47 kilohms

MIC (phone jack):
sensitivity 1 mV,
impedance 10 kilohms

Outputs

VIDEO/SAT OUT (audio) (phono jacks):
voltage 250 mV,
impedance 1 kilohm

VIDEO OUT (phono jack):
max. output level
1 Vp-p, unbalanced, Sync
negative, load impedance
75 ohms

S-VIDEO OUT (4-pin/mini-DIN jack):
Y: 1 Vp-p, unbalanced,
Sync negative,
C: 0.286 Vp-p, load
impedance 75 ohms

COMPONENT VIDEO OUT:
Y: 1 Vp-p, 75 ohms
Pb, Pr: 0.7 Vp-p, 75 ohms

– Continued on next page –

DVD DECK RECEIVER

9-877-866-01

2004F04-1

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Sony Corporation

Home Audio Company

Published by Sony Engineering Corporation

SONY®

HCD-RV777D/RV888D/RV999D

DIGITAL OUT (Square optical connector jack, rear panel) (HCD-RV777D only)
Wavelength 660 nm
PHONES (stereo mini jack):
accepts headphones of 8 ohms or more
FRONT SPEAKER: Use only the supplied speaker SS-RV999.
SURROUND SPEAKER (except for MHC-RV777D):
Use only the supplied speaker SS-RS999 for MHC-RV999D, SS-RS391 for MHC-RV888D.
CENTER SPEAKER (except for MHC-RV777D):
Use only the supplied speaker SS-CT391.
SUB WOOFER OUT: Use only the supplied speaker SA-RV999D for MHC-RV999D.
voltage 1 V,
impedance 1 kilohm

Disc player section

System Compact disc and digital audio and video system
Laser Semiconductor laser
(DVD: $\lambda=650$ nm,
CD: $\lambda=780$ nm)
Emission duration: continuous
Frequency response DVD (PCM 48 kHz):
2 Hz – 22 kHz (± 1 dB)
CD: 2 Hz – 20 kHz (± 1 dB)
Video color system format
Latin American model: NTSC
Other models: NTSC, PAL

Tape deck section

Recording system 4-track 2-channel stereo
Frequency response 40 – 13,000 Hz (± 3 dB),
using Sony TYPE I cassette

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range 87.5 – 108.0 MHz
(50-kHz step)
Antenna FM lead antenna
Antenna terminals 75 ohm unbalanced
Intermediate frequency 10.7 MHz

AM tuner section

Tuning range
Latin American models: 530 – 1,710 kHz (with the interval set at 10 kHz)
531 – 1,602 kHz (with the interval set at 9 kHz)
Saudi Arabian model: 531 – 1,602 kHz (with the interval set at 9 kHz)
Other models: 531 – 1,602 kHz (with the interval set at 9 kHz)
530 – 1,710 kHz (with the interval set at 10 kHz)
Antenna AM loop antenna
Antenna terminals External antenna terminal
Intermediate frequency 450 kHz

General

Power requirements
Australian model: 230 – 240 V AC, 50/60 Hz
Saudi Arabian model: 120 – 127 V, 220 V or 230 – 240 V AC,
50/60 Hz
Adjustable with voltage selector
Mexican model: 127 V AC, 60 Hz
Thai model: 220 V AC, 50/60 Hz
Other models: 120 V, 220 V or 230 – 240 V AC, 50/60 Hz
Adjustable with voltage selector
Power consumption
MHC-RV999D/RV888D 300 watts
MHC-RV777D 230 watts
Dimensions (w/h/d) Approx. 280 × 327 × 385 mm

Mass

HCD-RV999D/RV888D Approx. 12.5 kg
HCD-RV777D Approx. 11.0 kg

Supplied accessories:

Remote Commander (1)
R6 (size AA) batteries (2)
AM loop antenna (1)
FM lead antenna (1)
Video cable (1)
Audio cord
(MHC-RV999D only) (1)
Speaker pads
MHC-RV999D (22)
MHC-RV888D (10)
MHC-RV777D (8)
Surround speaker cable
(MHC-RV888D only) (2)

Design and specifications are subject to change without notice.

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.

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 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.

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)

LF : 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.

CAUTION

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

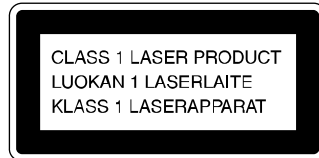
NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown 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.

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.



This appliance is classified as a CLASS 1 LASER product. This label is located on the rear exterior.

SETTING AND RELEASING THE CD DISC TRAY LOCK FUNCTION

This set has a disc tray lock function to prevent discs for demonstration at shops from theft. While this lock function is set, the tray will not be delivered out even when the OPEN/CLOSE button is pressed.

Setting method:

Press the OPEN/CLOSE button while pressing the STOP button. After a few seconds, the message “LOCKED” will appear on the fluorescent indicator tube with the tray locked.

Releasing method:

Just as the lock is set, press the OPEN/CLOSE button while pressing the STOP button. After a few seconds, the message “UNLOCKED” will appear with the lock released.

LASER DIODE AND FOCUS SEARCH OPERATION CHECK

Carry out the “S curve check” in “DVD section adjustment” and check that the S curve waveforms is output three times.

NOTE OF REPLACING THE DMB07 BOARD

When replacing the DMB07 board, since the adjustment value is not set up correctly, “Drive Auto Adjustment” can’t be performed. In this case, initialize Memory in the following procedures.

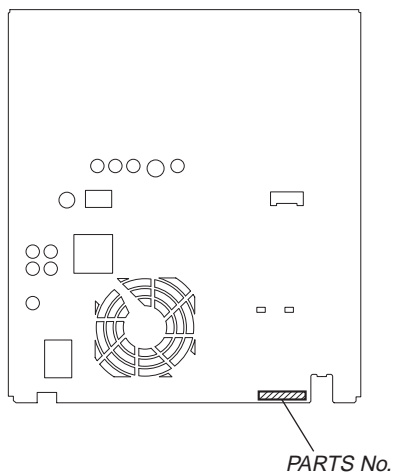
Procedure:

1. Set the test mode. (See page 22)
2. Press the [2] key of the remote commander, and set the “DRIVE MANUAL OPERATION”. (See page 27)
3. Press the [6] key of the remote commander, and set the “2-6, Memory Check”. (See page 29)
4. Press the [CLEAR] key of the remote commander, and initialize Memory.

HCD-RV777D/RV888D/RV999D

MODEL IDENTIFICATION

– BACK PANEL –



MODEL	PARTS No.
RV999D: E3, E15	4-254-657-0□
RV999D: EA	4-254-657-1□
RV999D: MY, SP	4-254-657-2□
RV999D: AUS	4-254-657-3□
RV999D: PH	4-254-657-5□
RV999D: MX	4-254-657-6□
RV999D: E51	4-254-657-7□
RV999D: AR	4-254-657-9□
RV888D: E3, E15	4-254-658-0□
RV888D: EA	4-254-658-1□
RV888D: MY, SP	4-254-658-2□
RV888D: AUS	4-254-658-3□
RV777D: E3, E15	4-254-659-0□
RV777D: EA	4-254-659-1□
RV777D: MY, SP	4-254-659-2□
RV777D: PH	4-254-659-4□

• Abbreviation

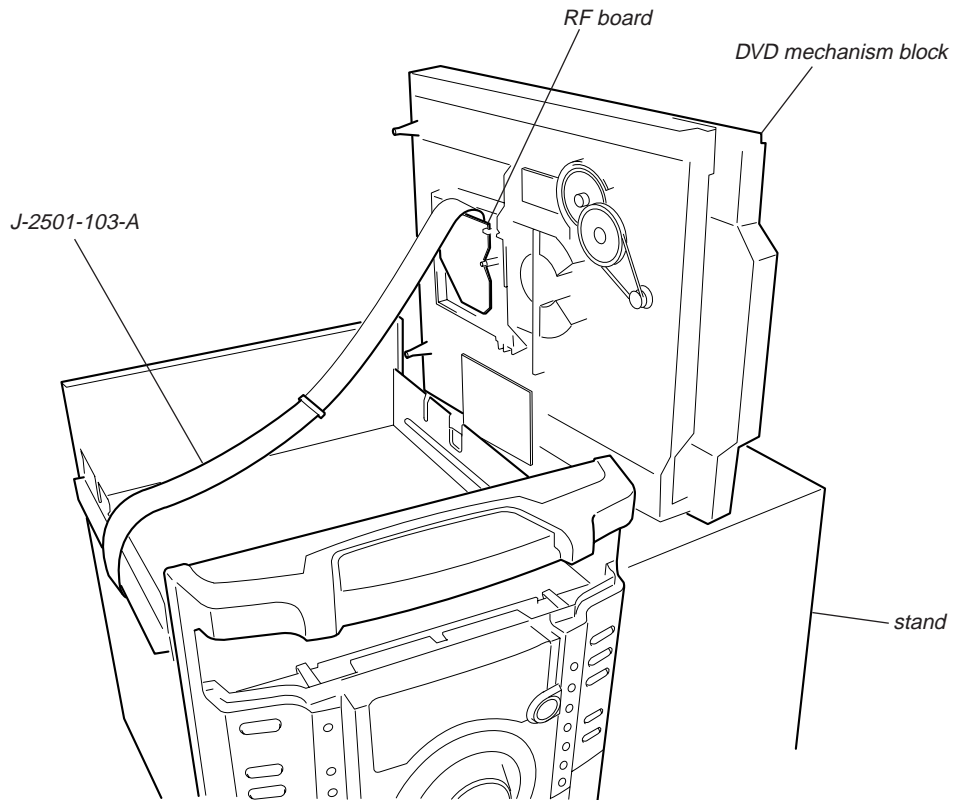
- E3 : 240 V AC area in E model
- E15 : Iran model
- E51 : 220 V AC area in E model
- AUS : Australian model
- AR : Argentina model
- EA : Saudi Arabia model
- PH : Philippine model
- SP : Singapore model
- MY : Malaysia model
- MX : Mexican model

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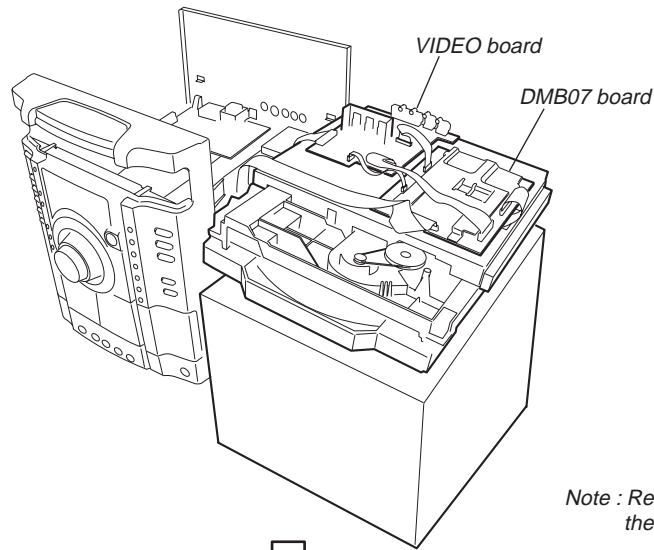
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SECTION 1
SERVICE NOTE

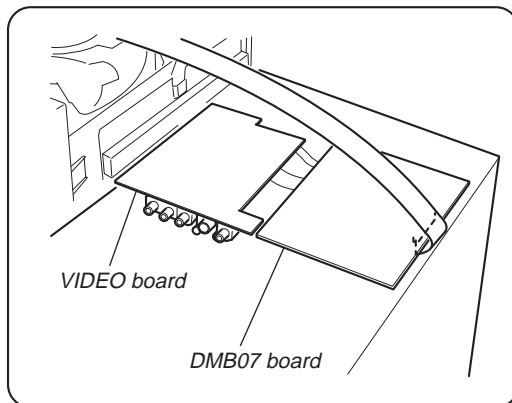
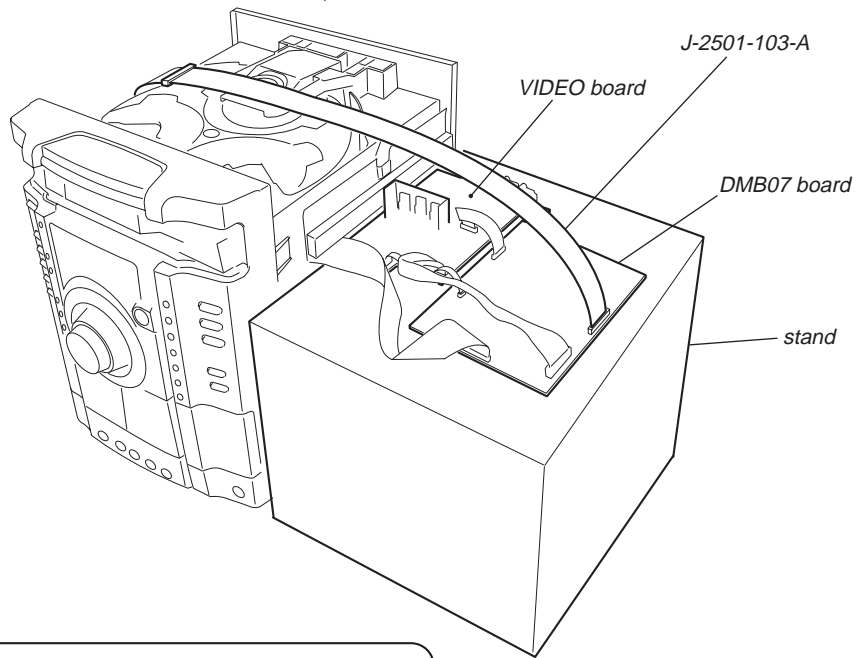
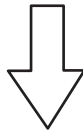
1-1. SERVICE POSITION OF CDM



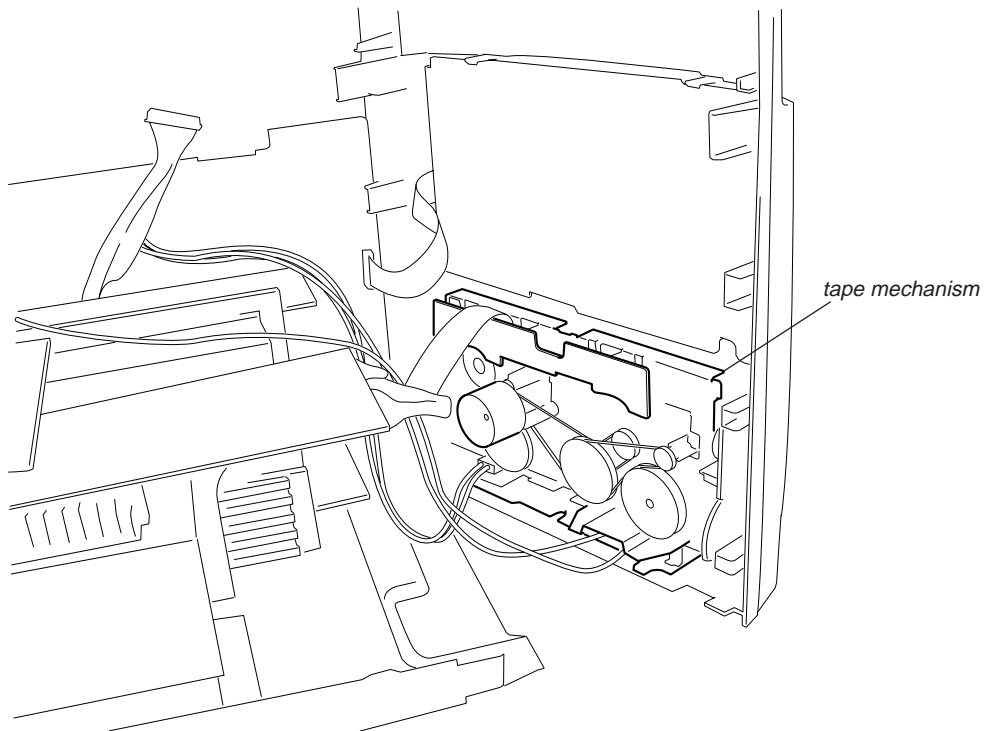
1-2. SERVICE POSITION OF DMB07 BOARD, VIDEO BOARD



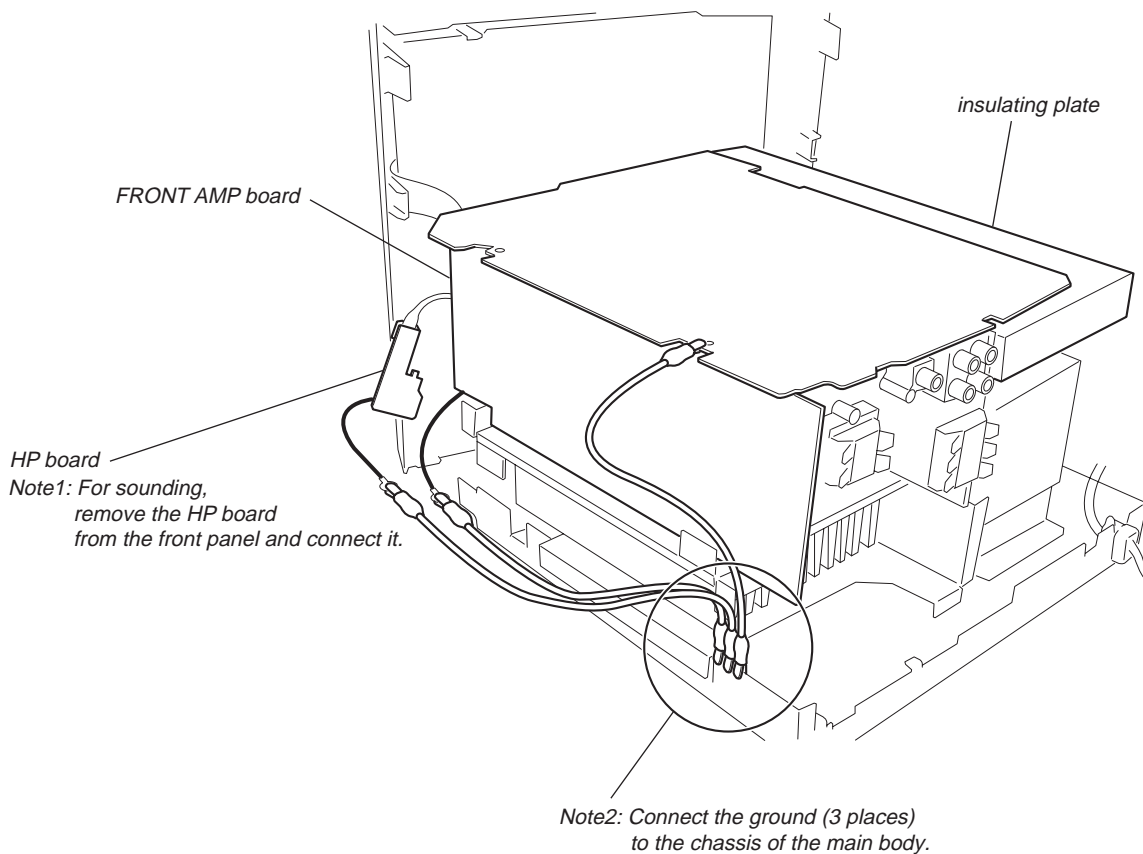
Note : Remove the board and then reassemble the CD block.



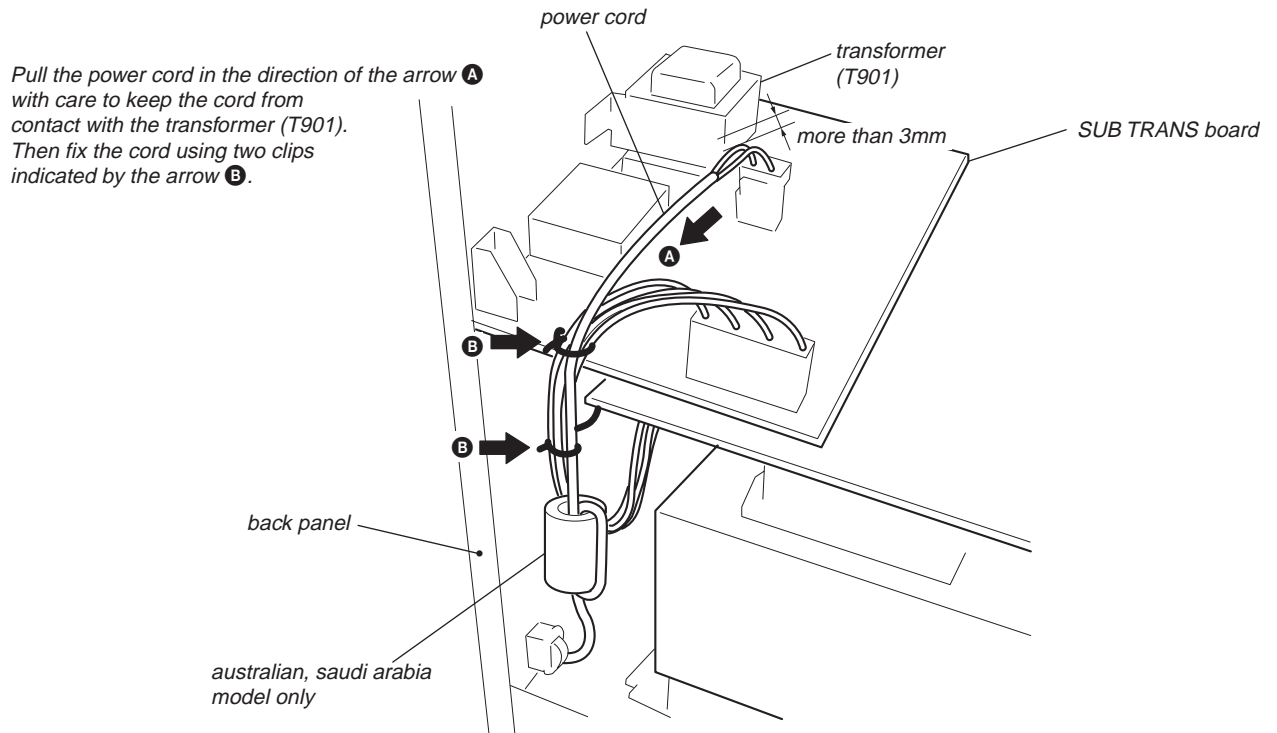
1-3. SERVICE POSITION OF TCM



1-4. SERVICE POSITION OF FRONT AMP BOARD



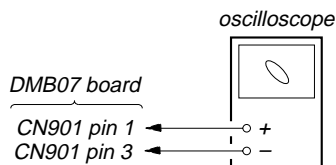
1-5. NOTE OF TRANSFORMER



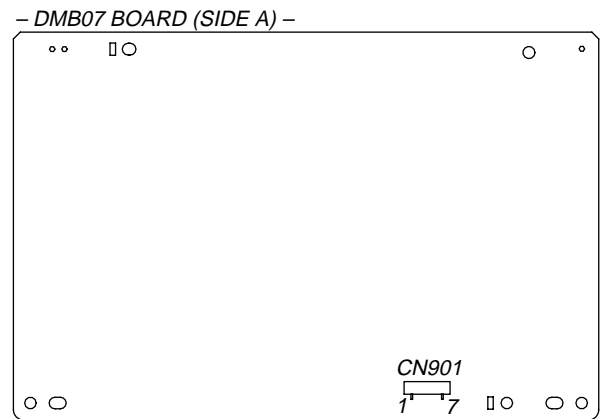
NOTE: Make sure that the power cord is distant more than 3mm from the transformer (T901).

1-6. DECISION TO PASS OR FAIL OF THE OPTICAL PICK-UP BLOCK

Connection:



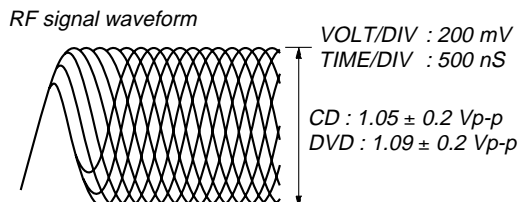
Checking Location:



Procedure:

1. Connect an oscilloscope to test point ① pin and ③ pin of CN901 on the DMB07 board.
2. Turn the power on.
3. Put the disc (LUV-P01) (Part No.: 4-999-032-01) (CD) in to playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.
5. Put the disc (TDV-520CSO) (Part No.: J-2501-236-A) (DVD) in to playback.
6. Perform Confirmation in the same manner as step 4.

Note: A clear RF signal waveform means that the shape “◇” can be clearly distinguished at the center of the waveform.



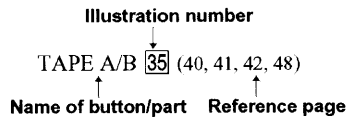
**SECTION 2
GENERAL**

This section is extracted from instruction manual.

List of button locations and reference pages

How to use this page

Use this page to find the location of buttons and other parts of the system that are mentioned in the text.



Main unit

ALPHABETICAL ORDER

A - O

- ALBUM + [7] (16, 20, 41)
- ALBUM - [27] (16, 20, 41)
- CD SYNC [29] (41)
- Deck A [30] (40, 42)
- Deck B [18] (40, 41, 42, 48, 50)
- DISC 1 - 3 [11] (17, 20, 65)
- DISC SKIP/EX-CHANGE [13] (15, 17, 20, 41)
- Disc tray [10] (15)
- DISPLAY [2] (51, 52, 54)
- Display window [5]
- DVD [37] (11, 13, 16, 20, 38, 41, 42)
- ECHO LEVEL* [22] (47)
- EFFECT ON/OFF [9] (43, 46)
- ENTER [12] (13, 16, 18, 19, 21, 23, 25, 28, 30, 34, 37, 46, 65)
- EQ BAND [8] (46)
- GAME [34] (42, 46, 57)
- GAME INPUT AUDIO L/R jacks [25] (57)
- GAME INPUT VIDEO jack [26] (42, 57)
- GAME MIXING [28] (43, 46)
- GROOVE [9] (43)
- ILLUMINATION [3] (29, 52)
- KARAOKE/MPX [16] (47)
- MIC jack [24] (47)
- MIC LEVEL [23] (47)
- Operation Dial (- EQ +/- <<>>) [6] (16, 41, 46)

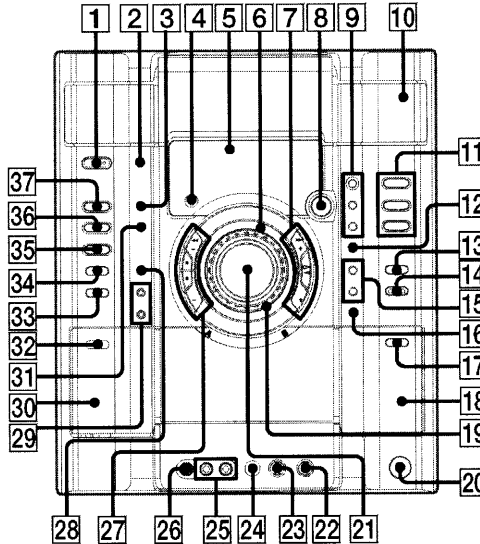
P - Z

- P FILE [15] (46)
- PHONES jack [20]
- PLAY MODE [31] (16, 20, 38, 40, 41, 42, 48, 65)
- Power illuminator [19] (52)
- PRESET EQ [15] (43)
- REC PAUSE/START [29] (41, 42, 46, 48)
- Remote sensor [4]
- SOUND FIELD [9] (45)
- TAPE A/B [35] (40, 41, 42, 48)
- TUNER/BAND [36] (37, 38, 42)
- TUNING MODE [31] (37, 38, 65)
- TUNING + [7] (37, 38)
- TUNING - [27] (37, 38)
- VIDEO/SAT [33] (42, 58)
- VOLUME control [21] (36)

BUTTON DESCRIPTIONS

- I/⏻ (power) [1] (9, 38, 58, 65)
- ▶▶ (fast forward) [7] (16, 40)
- ◀▶ (play) [7] (16, 33, 40, 42)
- ▲ (disc tray eject) [14] (14, 15)
- ▲ PUSH (deck B) (eject) [17] (40)
- ◀◀ (rewind) [27] (16, 40)
- || (pause) [27] (9, 16, 40)
- (stop) [27] (16, 29, 38, 40, 41, 48, 65)
- ▲ PUSH (deck A) (eject) [32] (40)

* Asian model only



Remote control

ALPHABETICAL ORDER

A - E

- ALBUM + **7** (16, 20)
- ALBUM - **11** (16, 20)
- ANGLE **18** (28)
- AUDIO **18** (25)
- BAND **25** (37, 38)
- CLEAR **29** (21, 24, 34)
- CLOCK/TIMER SELECT **30** (50, 51)
- CLOCK/TIMER SET **30** (12, 49, 50)
- DISC SKIP **24** (17, 20)
- DISPLAY **21** (51, 52, 54)
- DVD DISPLAY **26** (16, 19, 23, 25, 28, 30, 54, 55)
- DVD MENU **7** (18)
- DVD SETUP **22** (14, 18, 26, 28, 31, 34, 65)
- DVD TOP MENU **11** (18)
- ENTER **27** (12, 13, 16, 18, 19, 21, 23, 25, 28, 30, 34, 37, 49, 50, 65)

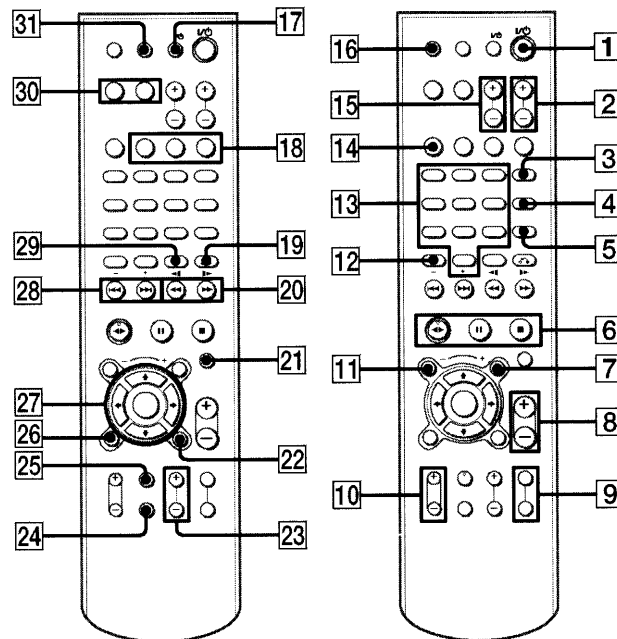
F - Z

- FM MODE **5** (39)
- FUNCTION +/- **10** (13, 16, 20, 37, 38)
- KARAOKE/MPX **14**
- Number buttons **13** (18, 19, 22, 24, 27, 28, 31)
- PLAY MODE **4** (16, 20, 40)
- REPEAT **5** (19)
- SLEEP **16** (49)
- SOUND FIELD +/- **23** (45)
- SUBTITLE **18** (26)
- TUNER MEMORY **3** (37)
- TUNING MODE **4** (37, 38)
- TUNING +/- **28** (37, 38)
- TV CH +/- **15** (10)
- TV/VIDEO **31** (10)
- TV VOL +/- **2** (10)
- VOLUME +/- **8** (36, 49)

BUTTON DESCRIPTIONS

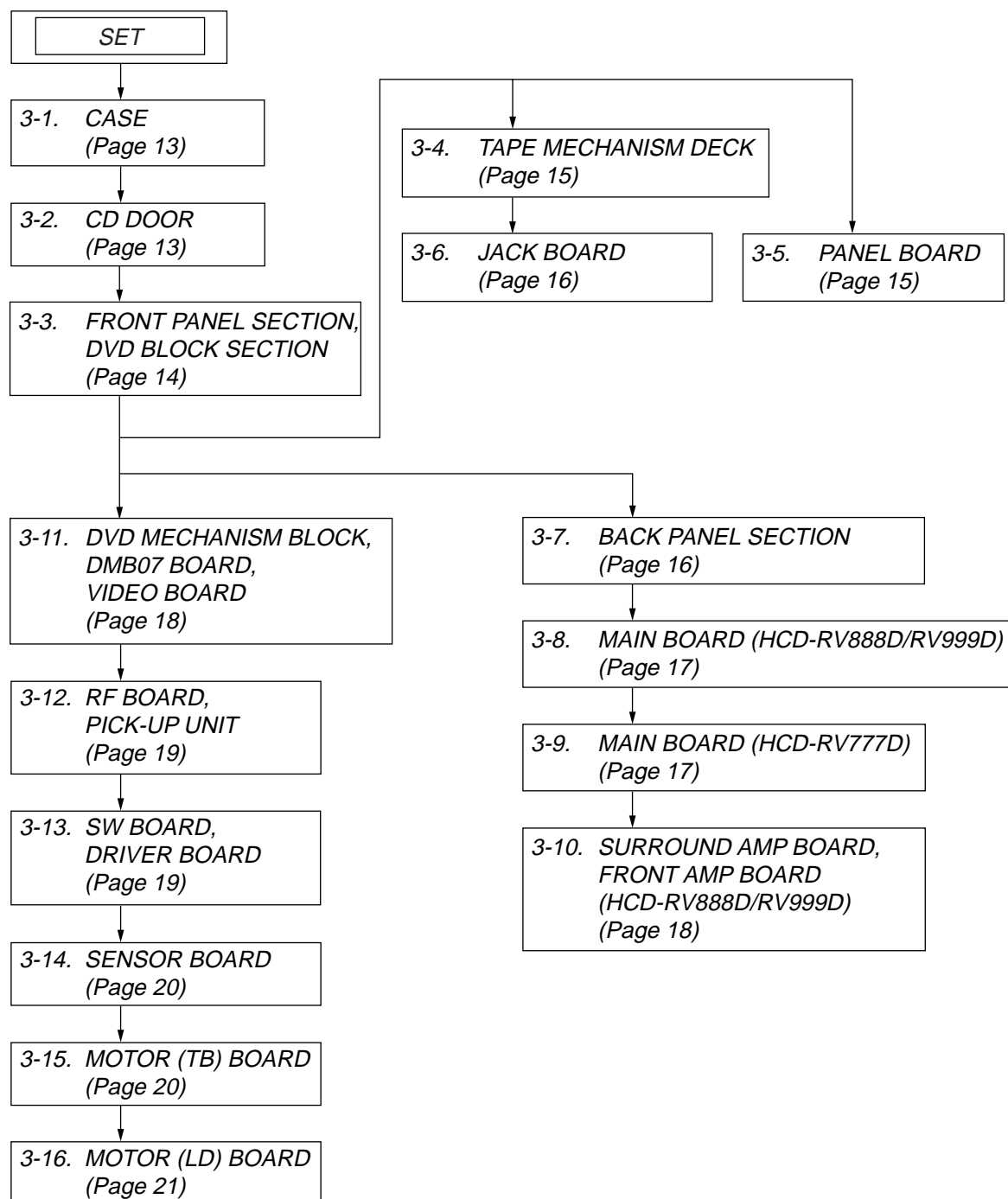
- I/⏻ (power) **1** (9, 50)
- ▶▶ (play) **6** (16, 33, 40)
- ⏸ (pause) **6** (16, 40)
- (stop) **6** (16, 40)
- KEY CONTROL #/b **9** (47)
- >10* **12**
- TV I/⏻ **17** (10)
- ↺ RETURN **19** (14, 19, 31)
- ◀◀ (rewind) **20** (16, 40)
- ▶▶ (fast forward) **20** (16, 40)
- SLOW ◀/▶ **20** (16)
- ⬆/⬇/⬅/➡ **27** (12, 16, 25, 49, 65)
- ◀◀ (go back) **28** (16, 41)
- ▶▶ (go forward) **28** (16, 41)

* This button does not function.



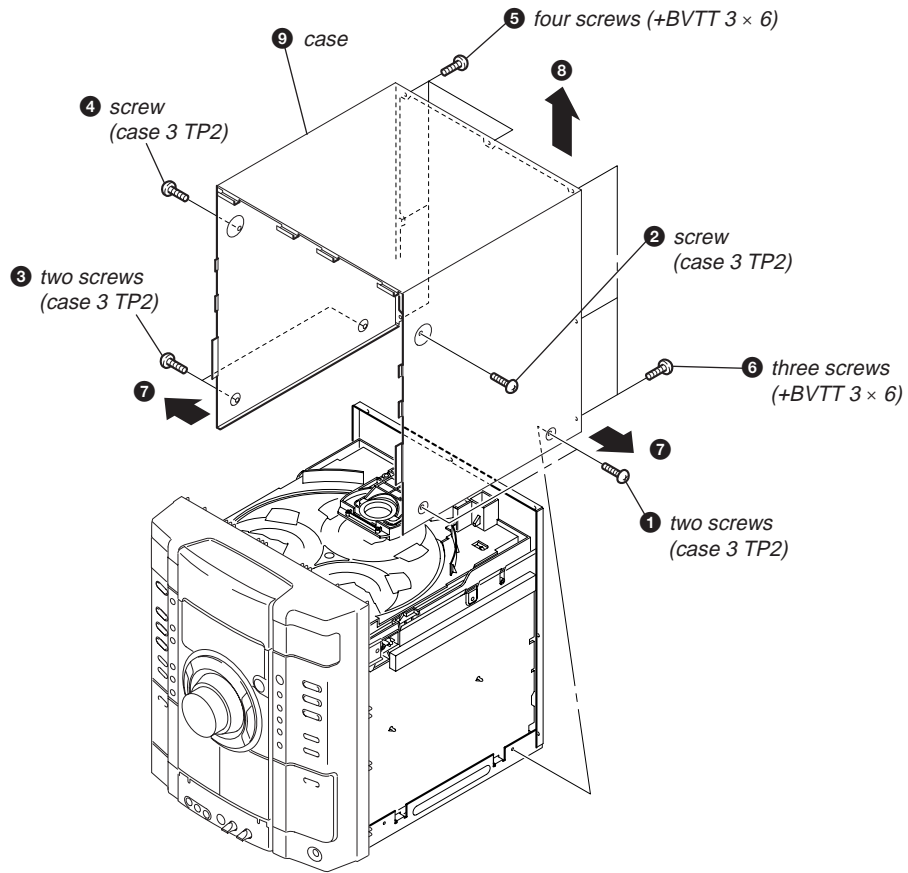
**SECTION 3
DISASSEMBLY**

Note : Disassemble the unit in the order as shown below.

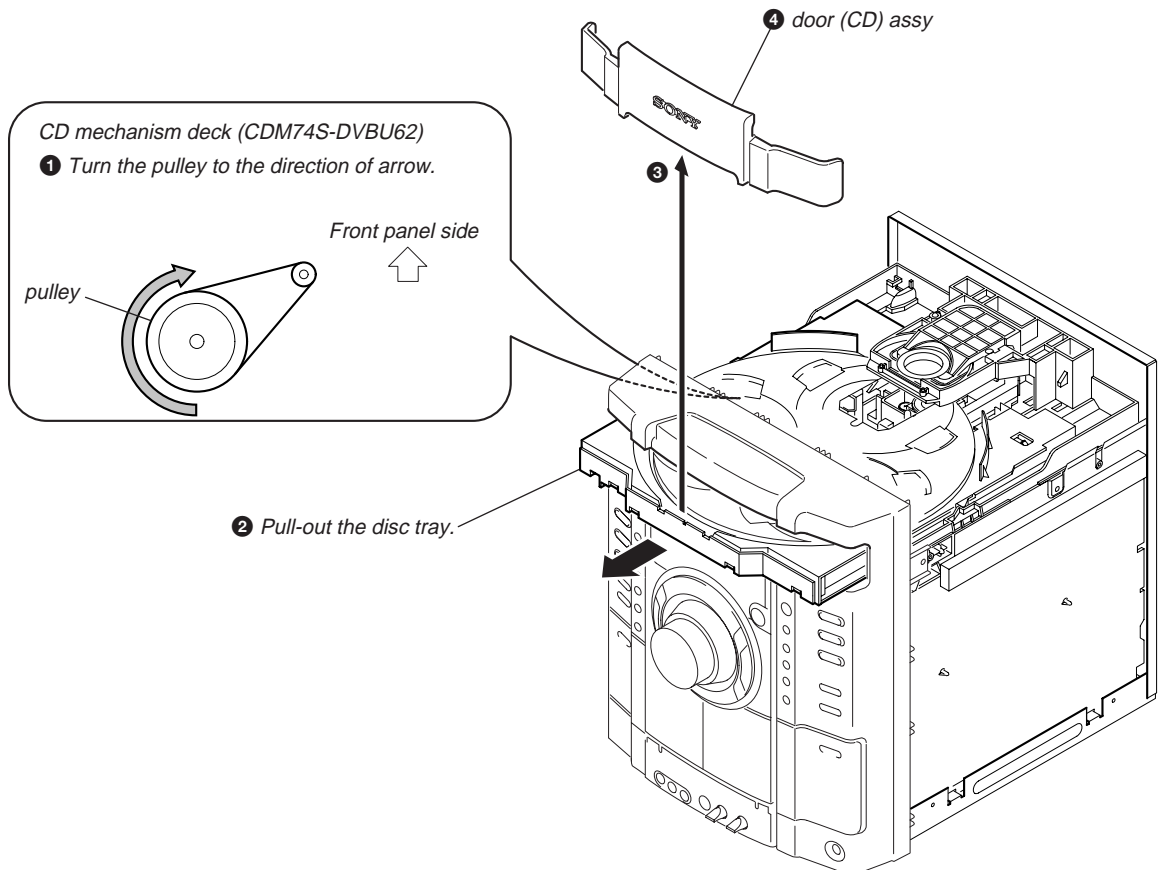


Note : Follow the disassembly procedure in the numerical order given.

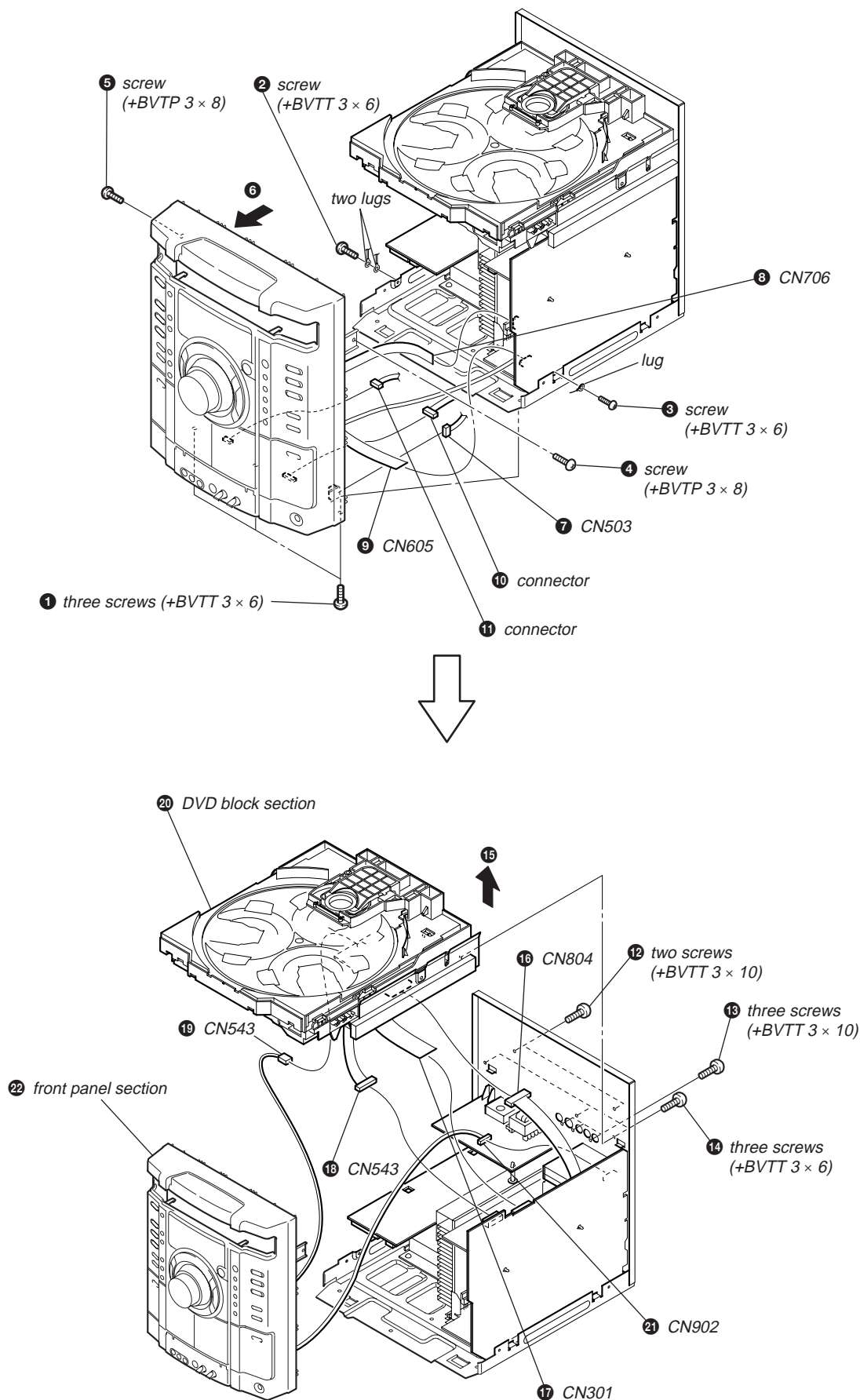
3-1. CASE



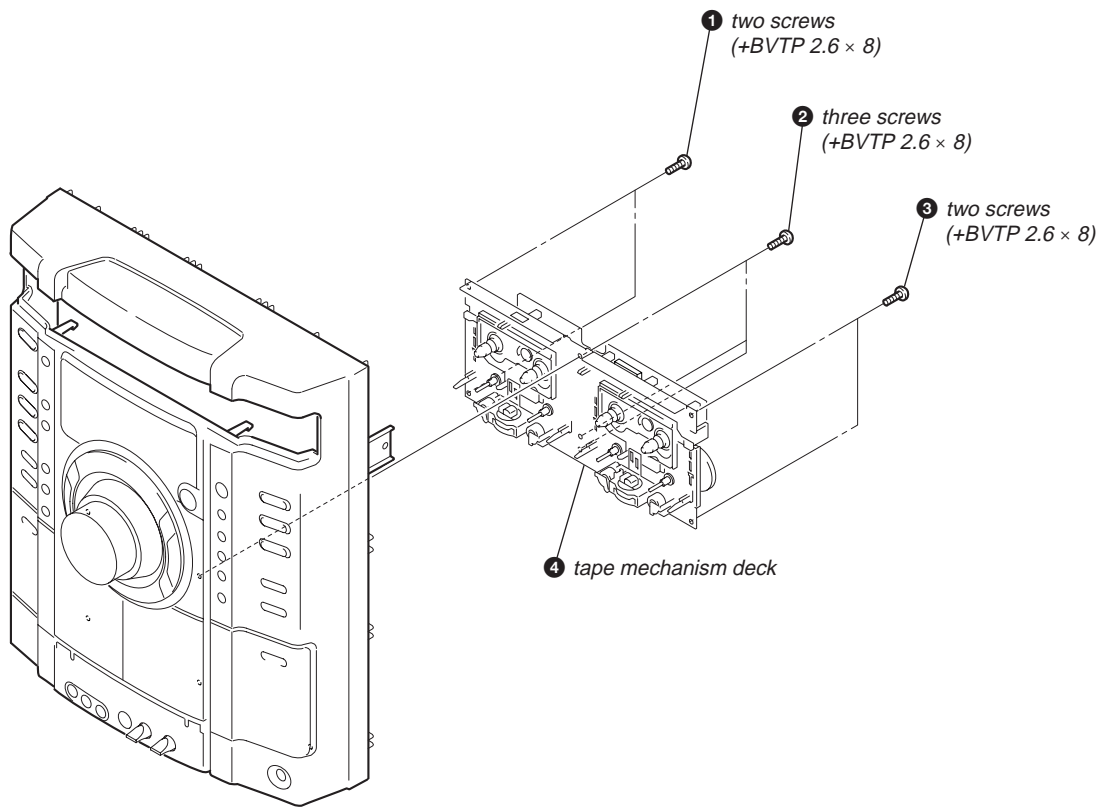
3-2. CD DOOR



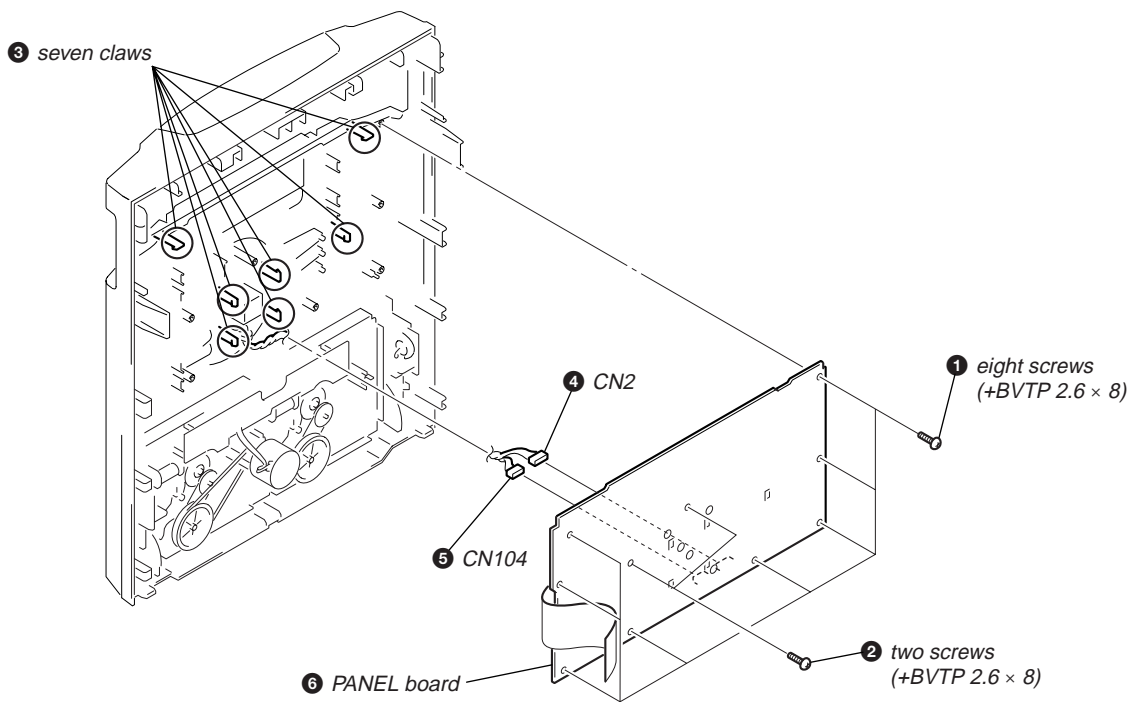
3-3. FRONT PANEL SECTION, DVD BLOCK SECTION



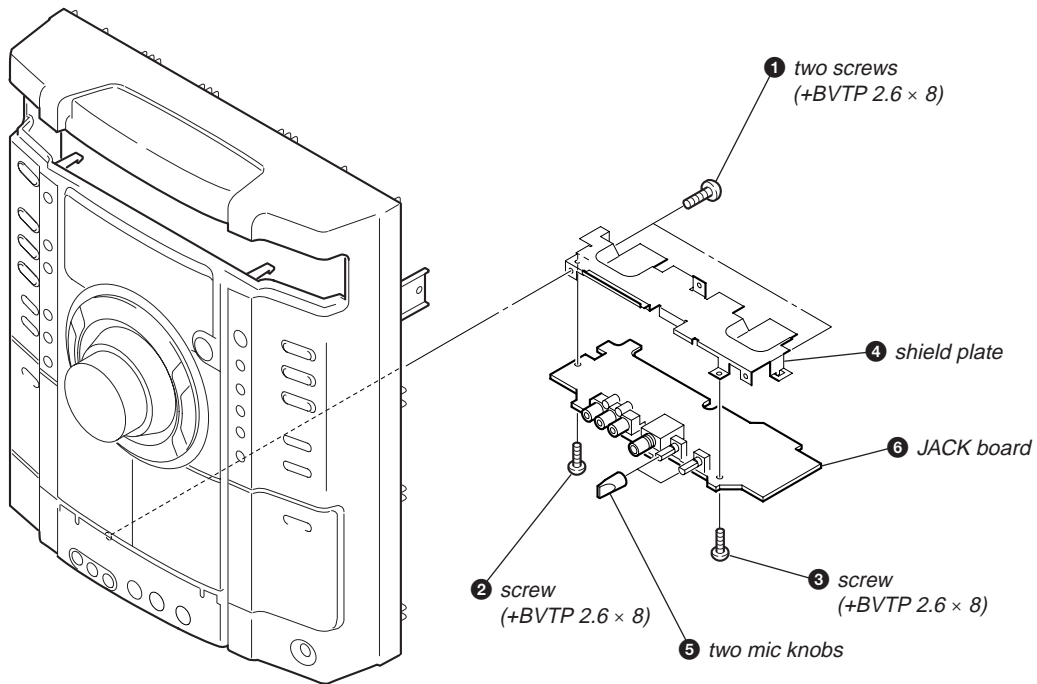
3-4. TAPE MECHANISM DECK



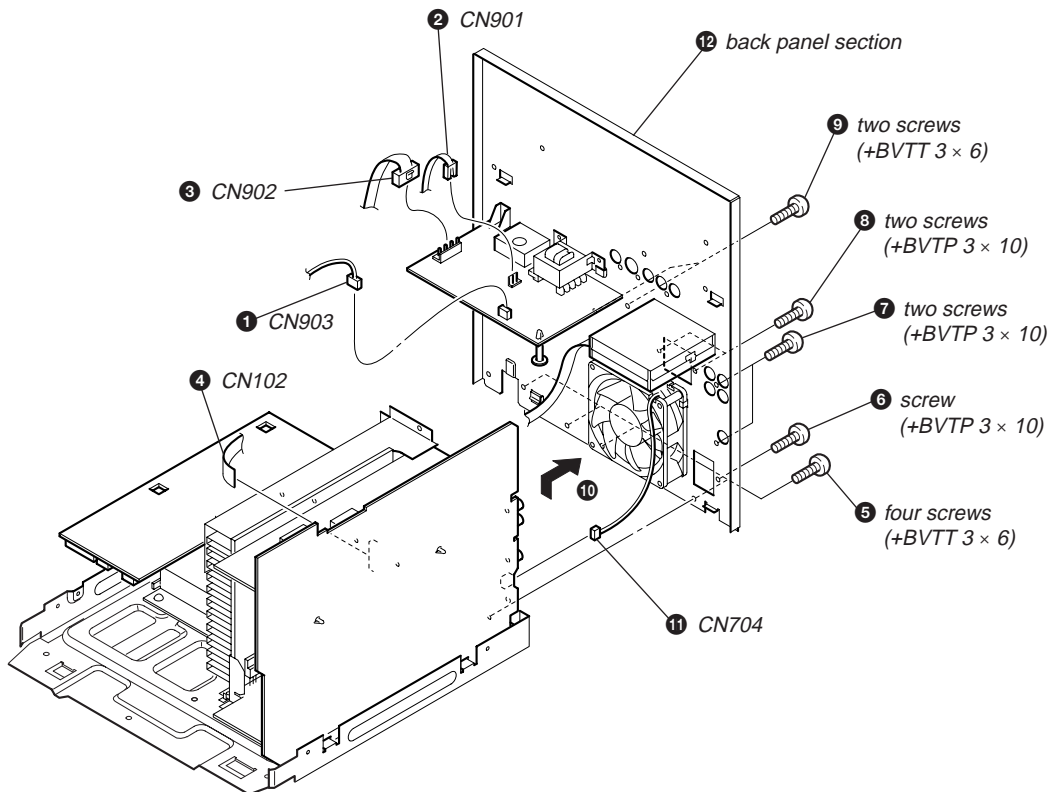
3-5. PANEL BOARD



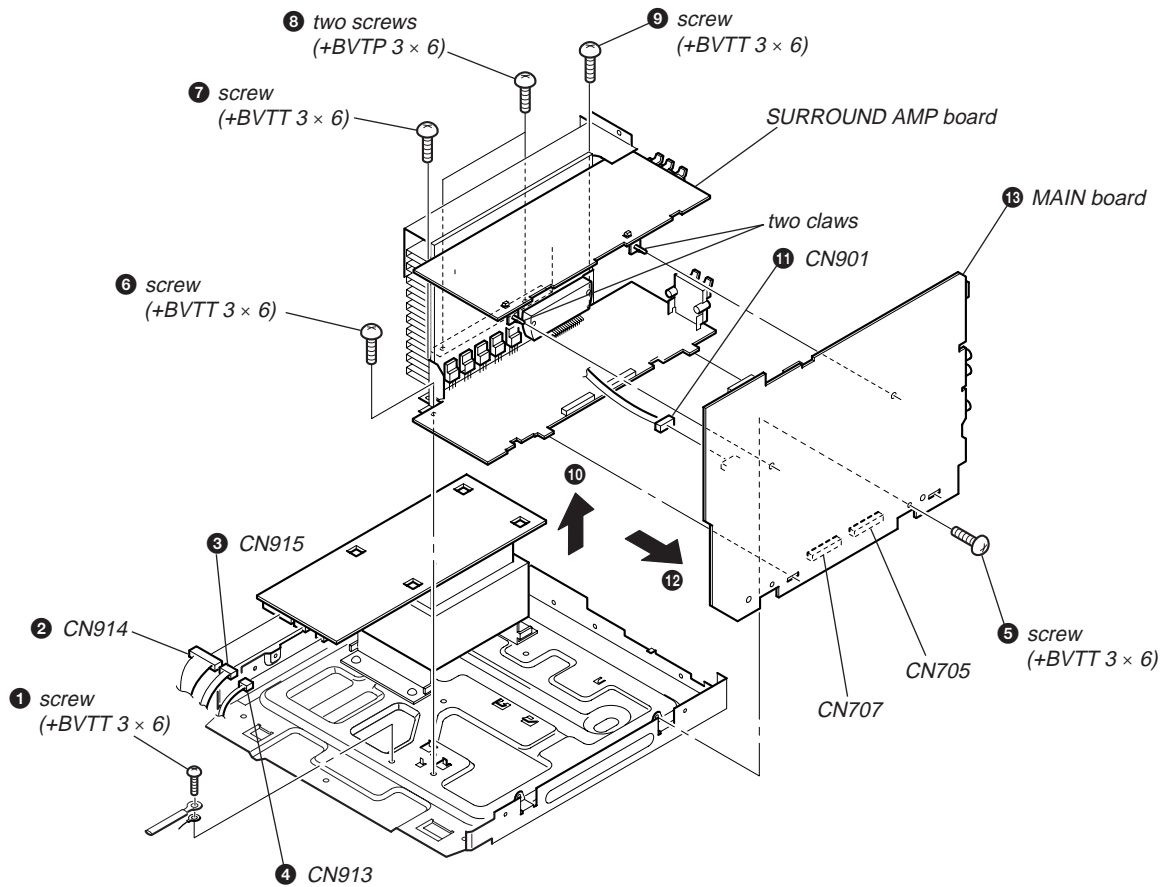
3-6. JACK BOARD



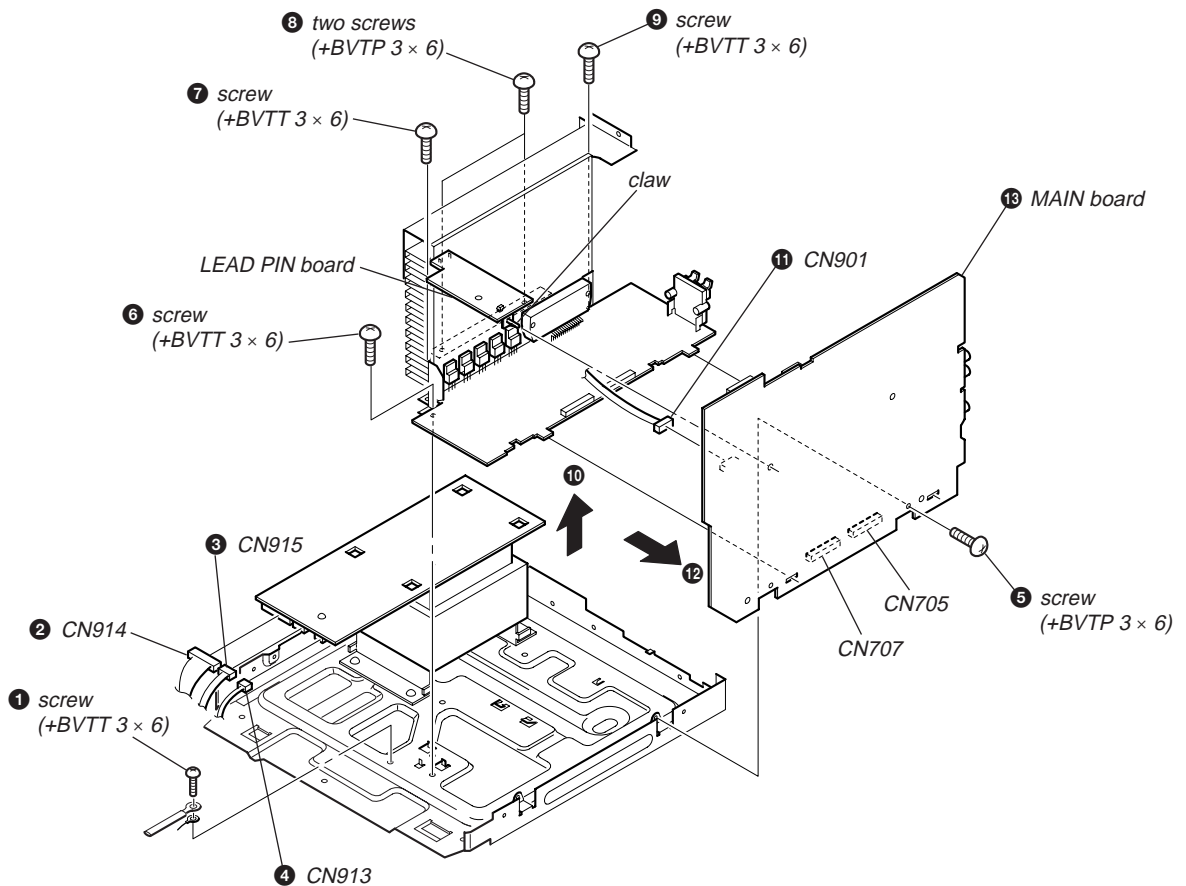
3-7. BACK PANEL SECTION



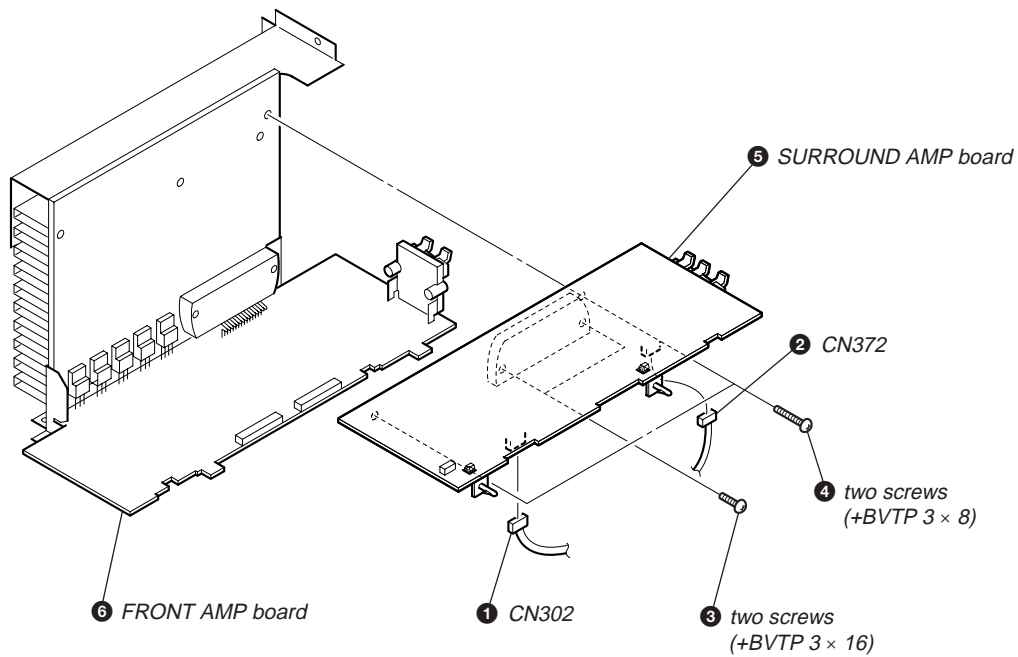
3-8. MAIN BOARD (HCD-RV888D/RV999D)



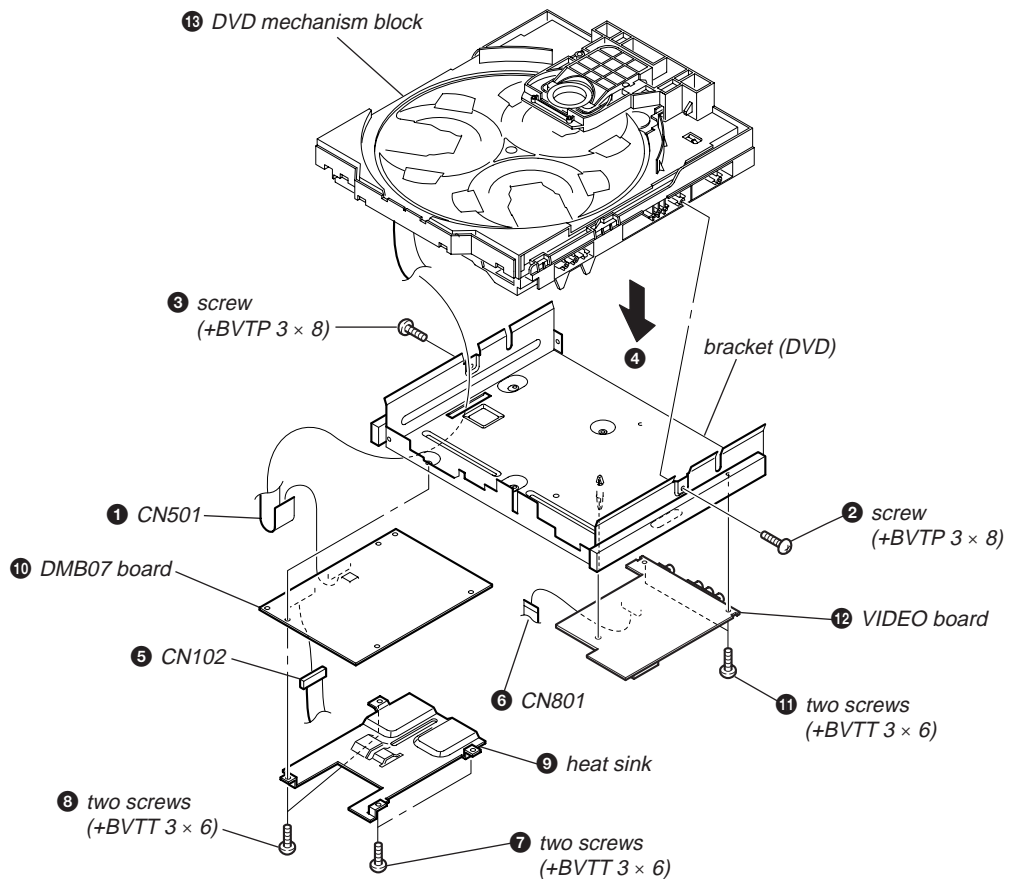
3-9. MAIN BOARD (HCD-RV777D)



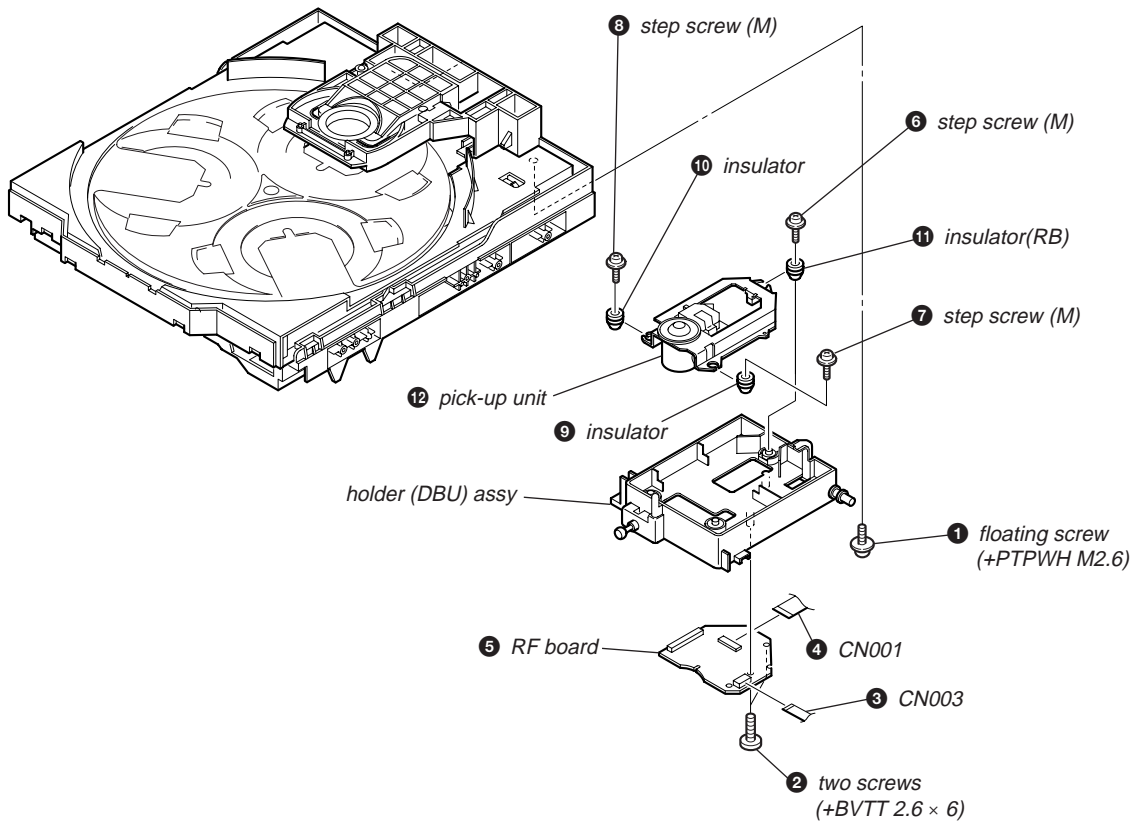
3-10. SURROUND AMP BOARD, FRONT AMP BOARD (HCD-RV888D/RV999D)



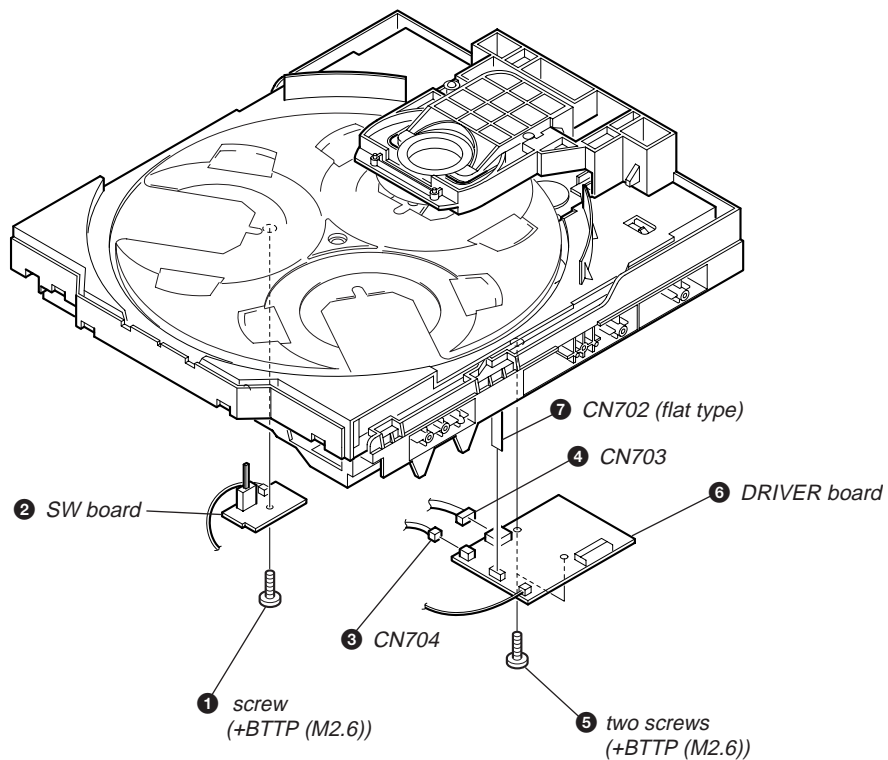
3-11. DVD MECHANISM BLOCK, DMB07 BOARD, VIDEO BOARD



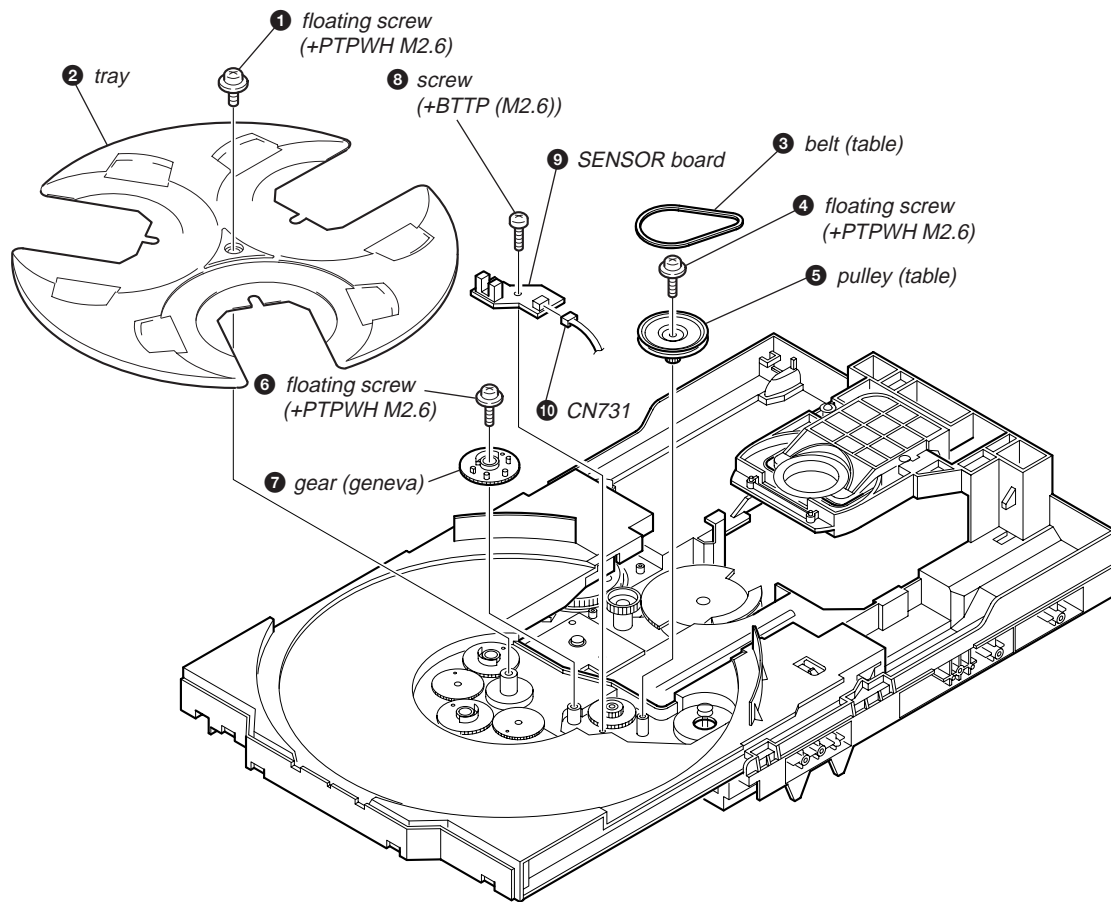
3-12. RF BOARD, PICK-UP UNIT



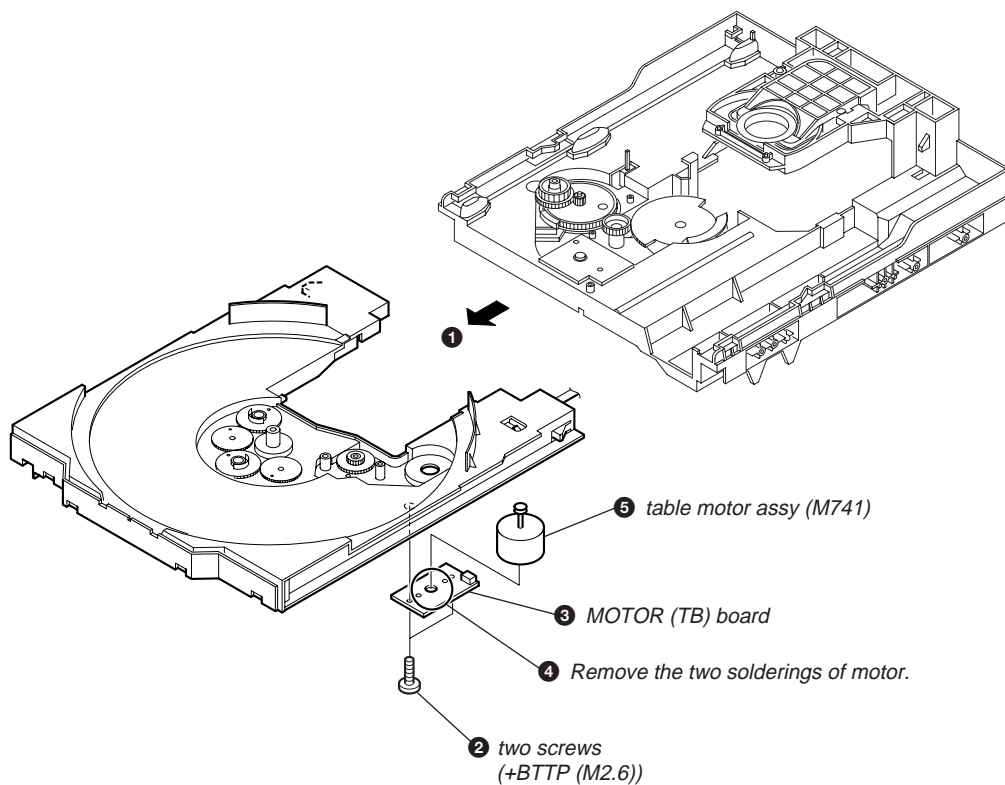
3-13. SW BOARD, DRIVER BOARD



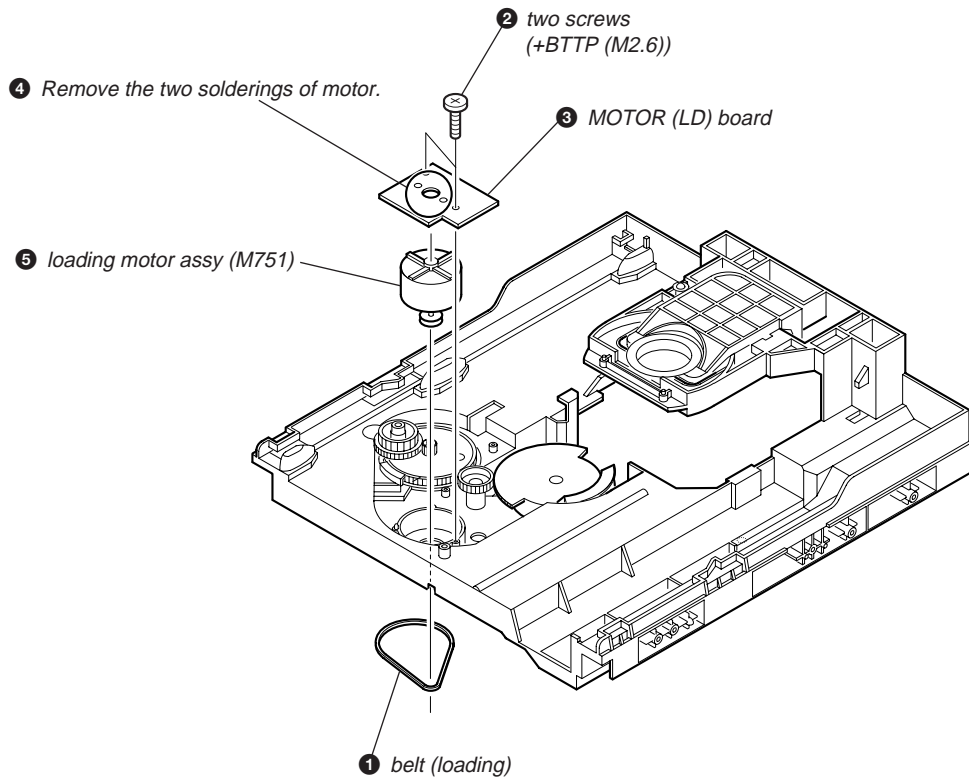
3-14. SENSOR BOARD



3-15. MOTOR (TB) BOARD



3-16. MOTOR (LD) BOARD






SECTION 4 TEST MODE

[Cold Reset]

- The cold reset clears all data including preset data stored in the RAM to initial conditions. Execute this mode when returning the set to the customer.





Procedure:

- Press three buttons of ,  and  simultaneously.
- The message "COLD RESET" is displayed, and the set is reset.

[Tuner Step Change]

- A step of AM channels can be changed over between 9 kHz and 10 kHz.





Procedure:

- Press the  button to turn the power ON, and set the function to TUNER/BAND "AM".
- Press the  button to turn the power OFF.
- Press two buttons of  and  simultaneously, and the message changes to "AM 9 k STEP" or "AM 10 k STEP", and thus the channel step is changed over.

[VIDEO/MD Function Change]

- Change of function VIDEO or MD (also the input level changes).




Procedure:

- Press the  button to turn the power ON.
- Press two buttons of  and  simultaneously, and the message changes to "MD" or "VIDEO", and thus the channel step is changed over.
- Press the  button to turn the power OFF.



[DISC TRAY LOCK]

The disc tray lock function for the antitheft of a demonstration disc in the store is equipped.

Setting Procedure :

- Press the  button to turn the power ON.
- Press two buttons of  and  simultaneously for five seconds.
- The message "LOCKED" is displayed, and the tray is locked.

Releasing Procedure :






- Press two buttons of  and  simultaneously for five seconds.
- The message "UNLOCKED" is displayed, and the tray is unlocked.



Note: When the message "LOCKED" is displayed, the tray lock is not released by turning power ON/OFF with the  button.

[GC Test Mode]





- This mode is used to check the fluorescent indicator tube, LEDs, keyboard, volume and phones.

Procedure:

- Press three buttons of ,  and  simultaneously.
- LEDs and fluorescent indicator tube are all turned on.
- Press two buttons of  and  simultaneously. Whenever these two buttons are pressed simultaneously, the mode changes from Key check, Key count check, Headphones input check and Volume check in this order.
- When the Key check mode is entered, the message "KEY :0 0 0" is displayed.

The keys that are assigned to the respective channels of the key entry signal lines (KEY1, KEY2, KEY3) that are input to IC101 Display Controller on the PANEL board, are checked. While you press the button, the number that corresponds to the key shown in the table below, is displayed in the location of the corresponding channel. (The  and  buttons are not included in these channels.)

Display	Left (KEY1)	Center (KEY2)	Right (KEY3)
1	EQ BAND	DVD	GROOVE
2	DISC 1	TUNER/BAND	SOUND FIELD
3	DISC 2	TAPE A/B	EFFECT ON/OFF
4	DISC 3	GAME	TUNING +
5	DISC SKIP/ EX-CHANGE	VIDEO/SAT	<>
6	▲	ILLUMINATION	▶▶ ALBUM +
7	KARAOKE/ MPX	PLAY MODE/ TUNING MODE	◀◀ ALBUM -
8	P-FILE	GAME MIXING	
9	PRESET EQ	CD SYNC	■
10	ENTER	REC PAUSE/ START	TUNING -

- When the Key count check mode is entered, the message "KEYCN:T 0 1" is displayed. Whenever the button is pressed, number in the first digit increments (30). At the same time, only when the key is being pressed, the KEY channel is displayed in the second digit. (KEY1: 2, KEY2: 3, KEY3: 4)
(The buttons that are already pressed once and the buttons of  and  are not counted.)
- When the Headphones input check mode is entered, the message "H_P OFF" or "H_P ON" is displayed, and depending on the PHONES jack status.
- When the Volume check mode is entered, the message "VOLUME FLAT" or "VOLUME DOWN" or "VOLUME UP" is displayed, and depending on the VOLUME status.
- You can exit the Test Mode when you press two buttons of  and  simultaneously.

[MC Test Mode]

- This mode is used to check operations of the respective sections of Amplifier, Tuner, and Tape.

Procedure:

- To enter MC Test Mode
1. Press the **[I/⏻]** button to turn the power ON.
 2. Press three buttons of **[■]**, **[PLAY MODE/TUNING MODE]** and **[DISC 3]** simultaneously.

* Check of Amplifier

Initial settings: Input ➔ GAME
 EQ ➔ FLAT
 Mode ➔ MUSIC
 VACS ➔ OFF

Output channel switching:

MUSIC key: L ➔ L R ➔ R through
 MOVIE key: L ➔ SL R ➔ SR through
 GAME key: L ➔ L, SL, C R ➔ R, SR, SW through
 TOOL MODE key: L ➔ C R ➔ SW through

1. When **[VOLUME]** control knob is turned clockwise even slightly, the sound volume increases to its maximum and the message "VOLUME MAX" is displayed for two seconds, then the display returns to the original display.
2. When **[VOLUME]** control knob is tuned counter-clockwise even slightly, the sound volume decreases to its minimum and the message "VOLUME MIN" is displayed for two seconds, then the display returns to the original display.
3. When you press the **[PRESET EQ]** button, the message "GEQ FLAT" is displayed, and the entire band of the graphic equalizer is set to the center level.
4. Whenever you press the **[GROOVE]** button, it toggles between "VACS ON" and "VACS OFF" so that you can switch ON or OFF of VACS.

* To return to normal mode again.

1. When you want to exit this mode, press the **[I/⏻]** button.
2. The cold reset is enforced at the same time.

[Aging Mode]

This mode can for operation check of tape deck section.

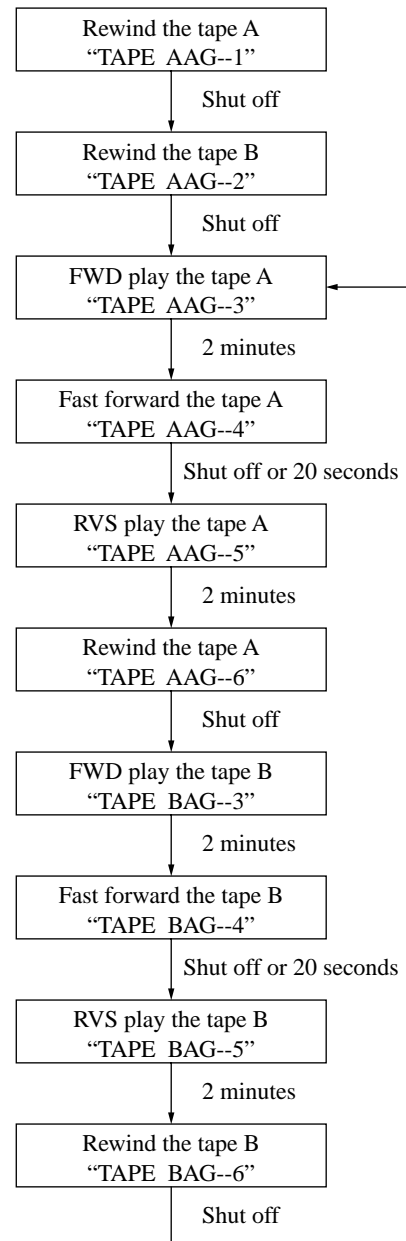
- If an error occurred:
The aging operation stops and display then status.
- If no error occurs:
The aging operation continues repeatedly.

Procedure:

1. Press the **[DVD]** button to select the function "DVD".
2. Load the tapes into the decks A and B respectively.
3. Set a disc in "DISC 1" tray.
4. Press the **[PLAY MODE/TUNING MODE]** button to set the "ALL DISCS" mode, and press the **[PRESET EQ]** button to "REPEAT" off.
5. Press three buttons of **[■]**, **[PLAY MODE/TUNING MODE]** and **[DISC SKIP/EX-CHANGE]** simultaneously.
6. The message "AGING" is displayed, and aging mode start.
7. To exit from the aging mode, operate the cold reset.

- The sequence during the aging mode is following as below.
- If an error occurred, stop display that step.

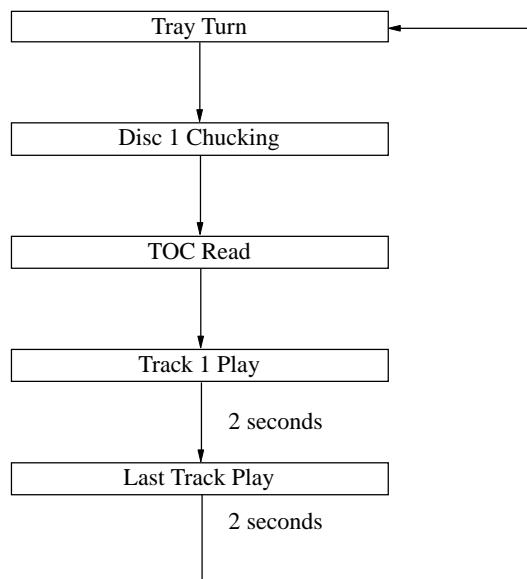
Aging mode sequence (Tape deck section):



[DVD Service Mode]

- The sequence during the aging mode is following as below.

Aging mode sequence (DVD section):



Error History Display

1. BD Error History Display

11 digits are displayed after the D character.

Example of display : D00209010100

- 1st digit : Indicates the error history number.
0 is the latest error
- 2nd to 3rd digits : Indicates details of the problem.
 - 01 : Cannot focus
 - 02 : GFS NG
 - 03 : Start time over
 - 04 : Focus deviates continuously
 - 05 : Q code absent for some time
- 4th to 5th digits : Processing when problems occur
 - 01 : Currently SHIP processing
 - 02 : Currently POWER OFF processing
 - 03 : Currently initializing
 - 04 : Currently stopping
 - 05 : Currently STOP operation processing
 - 06 : Currently start processing
 - 07 : Currently TOC reading
 - 08 : Currently searching
 - 09 : Currently playing
 - 0A : Currently pausing
 - 0B : Currently PLAY manual searching
 - 0C : Currently PAUSE manual searching
- 6th to 7th digits : Operations currently performed for problems which have occurred
- 8th to 9th digits : Rotation speed of DISC when problems occur
 - 01 : x1 speed
 - 02 : x2 speed
- 10th to 11th digits : Fixed at 00

2. CDM Error History <CDM74S Error History Display>

11 digits are displayed after the M character.

Example of display : M0FF400220000

- 1st digit : Indicates the error history number.
0 is the latest error
- 2nd to 3rd digits : Indicates the details of the problem.
 - 01 : Initialization table is currently rotating 1
 - 02 : Initialization table is currently rotating 2
 - 03 : Initialization table is currently rotating 3
 - 04 : Currently DISC SKIP in OPEN mode
 - 05 : CLOSE table is currently rotating
 - 06 : Chucking table is currently rotating
 - 07 : Currently performing SHIP operations
 - 08 : Currently performing release operations
 - 09 : Currently performing POWER OFF operations
- 4th to 5th digits : Processing when problems occur
 - 01 : Currently performing SHIP operations
 - 02 : Currently performing POWER OFF operations
 - 03 : Currently initializing
 - 04 : Currently performing release operations
 - 05 : Currently in chuck stop state
 - 06 : Currently performing CLOSE operations
 - 07 : Currently performing exchange CLOSE operations
 - 08 : Currently performing OPEN operations
 - 09 : Currently performing OPEN POP UP operations
 - 0A : Currently performing exchange OPEN operations
- 6 to 7th digits : Operations currently performed for problems which have occurred
- 8th to 9th digits : Targets of processing when problems occur
Same as 4th to 5th digits
- 10th to 11th digits : Fixed at 00

[DVD and CD Ship Mode (No Memory Clear)]

- This mode moves the position to the position durable to vibration. Use this mode when returning the set to the customer after repair.

Procedure:

- Press the button to turn the power ON.
- Press two buttons of and simultaneously.
- After the "STANDBY" display blinks 15 times, the message "LOCK" is displayed, and the DVD ship mode is set.

[DVD and CD Ship Mode (Memory Clear)]

- This mode moves the pickup to the position durable to vibration. Use this mode when returning the set to the customer after repair.





Procedure:

- Press the button to turn the power ON.
- Press three buttons of , , and simultaneously.
- After the "STANDBY" display blinks 15 times, the message "LOCK" is displayed, and the DVD ship mode is set.

[REPEAT 5 LIMIT OFF MODE]

- This mode is used to enable infinite repetitions.
Normally, the number of repetitions allowed is 5.

Procedure:

1. Press the  button to turn the power ON.
2. Set the function "DVD".
3. Press three buttons of ,  and  is simultaneously.
4. Infinite repetitions is enabled.
5. This state is maintained (memorized) until COLD RESET is executed.

DVD OSD Test Mode

[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).





[TEST DISC LIST]

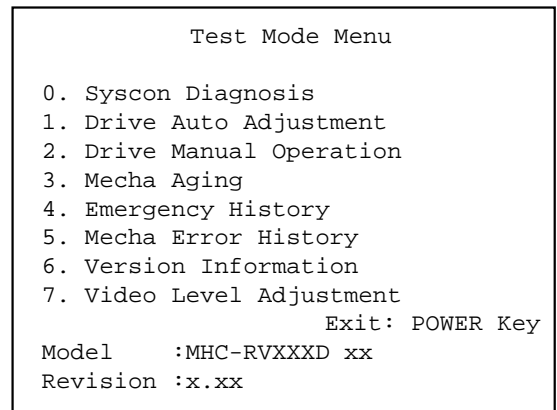
Use the following test disc on test mode.


- LUV-P01 (CD): PART No. 4-999-032-01
 TDV-520CSO (DVD-SL): PART No. J-2501-236-A
 TDV-540C (DVD-DL): PART No. J-2501-235-A

Note: Do not use exiting test disc for DVD.

[STARTING TEST MODE]

1. Press the  button to turn the power ON, and set the function to DVD.
2. While pressing two buttons of  and  simultaneously, and turn the  control knob clockwise to enter the test mode.
3. The message "SERVICE IN" is displayed, and displays the Test Mode Menu on the monitor screen as follows. (At the bottom of the menu screen, the model name and revision number are displayed)




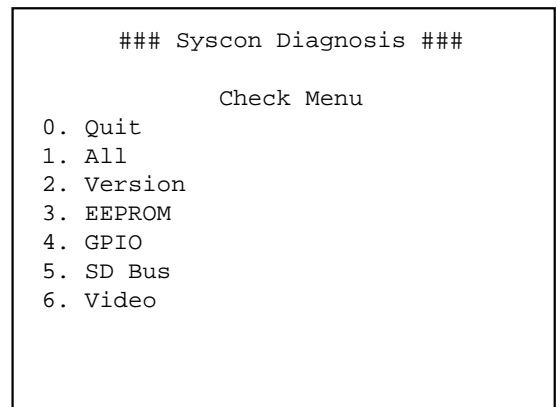
4. To execute each function, select the desired menu and press its number on the remote commander RM-SR246D.
5. To release from test mode, press the  button and turn the power OFF.

[OPERATING TEST MODE]

0. SYSCON DIAGNOSIS

The same contents as board detail check by serial interface can be checked from the remote commander operation.

On the Test Mode Menu screen, press  button on the remote commander, and the following Check Menu will be displayed.



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

```

### Syscon Diagnosis ###

      Diag All Check
      No.2 Version

      2-3. ROM Check Sum
      Check Sum = xxxx

Press NEXT Key to Continue
Press PREV Key to Repeat
    
```

For the ROM Check, the check sum calculated by the Syscon is output, and therefore you must compare it with the specified value for confirmation.

Following the message, press the **▶▶** button to go to the next item, or press the **◀◀** button to repeat the same operation again. To quit the diagnosis and return to Check Menu screen, press the **ENTER** button on the remote commander to display Check Menu.

• Error occurred

If an error occurred, the diagnosis is suspended and error is displayed. Press the **ENTER** button on the remote commander to quit the diagnosis, or press the **◀◀** button to repeat the same check where an error occurred, or press the **▶▶** button to continue the check from the item next to faulty item.

General Description of Checking Method

Selecting 2 and subsequent items calls the submenu screen of each item. And selecting 2 and subsequent items executes respective menus and outputs the results.

For the contents of each sub menu, see “Check Items List” as below.

Check Items List:

- 0-2. Version
 - 0-2-1. All
 - 0-2-2. Revision
 - 0-2-3. ROM Check Sum
 - 0-2-4. Model Type
 - 0-2-5. Region
- 0-3. EEPROM Check
 - 0-3-1. Sampling Check
 - 0-3-2. Detail Check
- 0-4. GP I/O Check
- 0-5. SD Bus Check
- 0-6. Video Check

0-2. Version

0-2-2. Revision

The revision number of ROM (IC206) that the program for the DVD system processor (IC207) is stored.

0-2-3. ROM Check Sum

Check sum is calculated.
(4 digits hexadecimal number)

0-2-4. Model Type

Model name is displayed. (MHC-RVXXXD)

0-2-5. Region

Model destination code is displayed. (2 digits number)

0-3. EEPROM Check

0-3-1. Sampling Check

EEPROM check at every 64 words.
It compares read data with write data of each address. When there are discrepancies between two data, it displays error.

0-3-2. Detail Check

EEPROM check at every 1 word.
It compares read data with write data of each address. When there are discrepancies between two data, it displays error.

0-4. GP I/O Check

Pull up/down setting check of the DVD system processor (IC207) pin 150, 151 and 154 (for clock setting port).

0-5. SD Bus Check

SD bus data check between DVD decoder (IC701) and D-RAM (IC706).

0-6. Video Check

Output the color bars for video level adjustment.

1. DRIVE AUTO ADJUSTMENT

On the Test Mode Menu screen, press the **1** button on the remote commander, and the Adjustment Menu will be displayed.

```

## Drive Auto Adjustment ##
      Adjustment Menu

0. ALL
1. DVD-SL
2. CD
3. DVD-DL

Exit: RETURN
    
```

Normally, **10/0** button is selected to adjust DVD (single layer), CD and DVD (dual layers) 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 monitor screen. The disc used for adjustment must be the one specified for adjustment.

1-0. ALL

Press the **10/0** button on the remote commander, and the servo set data in EEPROM will be initialized. Then, 1. DVD-SL disc, 2. CD disc and 3. DVD-DL disc are adjusted in this order.

Each time one disc was adjusted, it is ejected. Replace it with the specified disc following the message. You can finish the adjustment by pressing the **RETURN** button on the remote commander.

Note: During adjustment of each disc, the measurement for disc type judgment is made. As automatic adjustment does not judge the disc type unlike conventional models, take care not to insert wrong type discs. Also, do not give a shock during adjustment.

1-1. DVD-SL (single layer)

Press the [1] button on the remote commander and insert a DVD single layer disc following the message. Then the adjustment will be made through the steps below, then adjusted values will be written to the EEPROM.

DVD Single Layer Disc Adjustment Steps:

1. Sled reset
2. Disc check memory SL
3. Wait 300 msec
4. Set disc type SL
5. LD on
6. Spindle start
7. Wait 1 sec
8. Focus servo on 0
9. Auto track offset adjust
10. CLVA on
11. Wait 500 msec
12. Tracking on
13. Wait 1 sec
14. Sled on
15. Check CLV on
16. Auto focus offset adjust
17. Auto focus gain adjust
18. Auto focus offset adjust
19. EQ boost adjust
20. Auto track gain adjust
21. All servo stop
22. EEP copy loop filter offset

1-2. CD

Press the [2] button on the remote commander and insert a CD disc following the message. Then the adjustment will be made through the steps below, then adjusted values will be written to the EEPROM.

CD Adjustment Steps:

1. Sled tilt reset
2. Disc check memory CD
3. Wait 500 msec
4. Set disc type CD
5. LD on
6. Spindle start
7. Wait 500 msec
8. Focus servo on 0
9. Auto track offset adjust
10. CLVA on
11. Wait 500 msec
12. Tracking on
13. (TC display start)
14. Wait 1 sec
15. Sled on
16. Check CLV on
17. Auto focus offset adjust
18. Auto focus gain adjust
19. Auto focus offset adjust
20. EQ boost adjust
21. Auto track gain adjust
22. All servo stop

1-3. DVD-DL (dual layers)

Press the [3] button on the remote commander and insert a DVD dual layers disc following the message. Then the adjustment will be made through the steps below, then adjusted values will be written to the EEPROM.

DVD Dual Layers Disc Adjustment Steps:

1. Sled tilt reset
2. Disc check memory DL
3. Wait 500 msec
4. Set disc type DL
5. LD on
6. Spindle start
7. Wait 1 sec

Layer 1 Adjust

8. Focus servo on 0
9. Auto track offset adjust
10. CLVA on
11. Wait 500 msec
12. Tracking on
13. Wait 500 msec
14. Sled on
15. Check CLV lock
16. Auto loop filter offset adjust, Auto focus adjust
17. Auto focus gain adjust
18. Auto focus offset adjust
19. EQ boost adjust
20. Auto loop filter offset adjust
21. Auto track gain adjust

Layer 0 Adjust

22. Focus jump (L1 → L0)
23. Auto track offset adjust L0
24. CLVA on
25. Wait 500 msec
26. Tracking on
27. Wait 500 msec
28. Sled on
29. Check CLV lock
30. Auto focus adjust
31. Auto focus gain adjust
32. Auto focus offset adjust
33. EQ boost adjust
34. Auto track gain adjust
35. All servo stop

2. DRIVE MANUAL OPERATION

Note: This mode is used for design, and not used in service fundamentally.

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

```



## Drive Manual Operation ##
      Operation Menu
1. Disc Type
2. Servo Control
3. Track/Layer Jump
4. Non EEPROM Write Adjust
5. EEPROM Write Adjust
6. Memory Check
7. Disc Check Memory
8. Error Rate Display
9. SACD Water Mark

```

Exit: RETURN







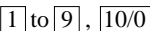



In using the manual operation menu, take care of the following points. These commands do not provide protection, thus requiring correct operation. The sector address or time code field is displayed when a disc is loaded.

Note:

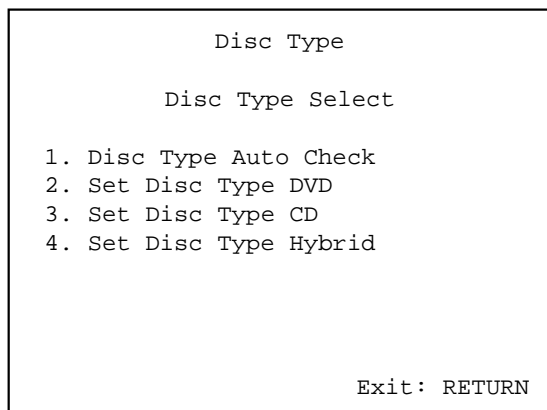
1. Set correctly the disc type to be used on the Disc Type screen.
2. In case of an alarm, immediately press the  button to stop the servo operation, and press the  button to turn the power off.

Basic operation:



(controllable from front panel or remote commander)

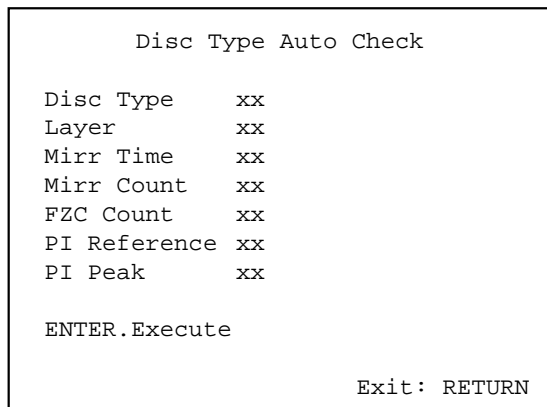
-  : Power OFF (release the Test Mode)
-  : Servo stop
-  : Stop and eject/Loading
-  : Return to Operation Menu or Test Mode Menu
- ,  : Transition between sub modes of menu
- ,  : Selection of menu items
- Cursor  /  : Increase/Decrease in manually adjusted value

2-1. Disc Type



2-1-1. Disc Type Auto Check

- 1) Press the  button on the remote commander to display the Disc Type Auto Check screen.
- 2) Insert a disc and press the  button on the remote commander.
- 3) It judges the type of inserted disc automatically and displays the disc type and so on as below.











Disc Type : CD, DVD or Hybrid (SACD)
 Layer : SINGLE, DUAL or HYBRID

- Mirr Time : Mirror time of between disc surface and record surface when disc type judgment. (hexadecimal number)
- Mirr Count : The number of times which mirror counts between disc surface and record surface when disc type judging.
- FZC Count : The number of times which focus zero cross points of each layer when lens down.
- PI Reference : The average of PI reference voltage. (hexadecimal number)
- PI Peak : PI peak level voltage. It performs only when disc type judgment is successful. (hexadecimal number)









2-1-2. Disc Type DVD

It sets up so that it may judge as a disc type of specification of the disc with which the set was inserted.

-  : DVD single layer disc (12 cm)
-  : DVD dual layers disc (0 layer, 12 cm)
-  : DVD dual layers disc (1 layer, 12 cm)
-  : DVD-RW disc (12 cm)
-  : DVD single layer disc (8 cm)
-  : DVD dual layers disc (0 layer, 8 cm)
-  : DVD dual layers disc (1 layer, 8 cm)
-  : DVD-RW disc (8 cm)







2-1-3. Disc Type CD

It sets up so that it may judge as a disc type of specification of the disc with which the set was inserted.

-  : CD disc (normal speed, 12 cm)
-  : CD disc (double speed, 12 cm)
-  : CD disc (normal speed, 8 cm)
-  : CD disc (double speed, 8 cm)
-  : CD-RW disc (normal speed, 12 cm)
-  : CD-RW disc (double speed, 12 cm)
-  : CD-RW disc (normal speed, 8 cm)
-  : CD-RW disc (double speed, 8 cm)

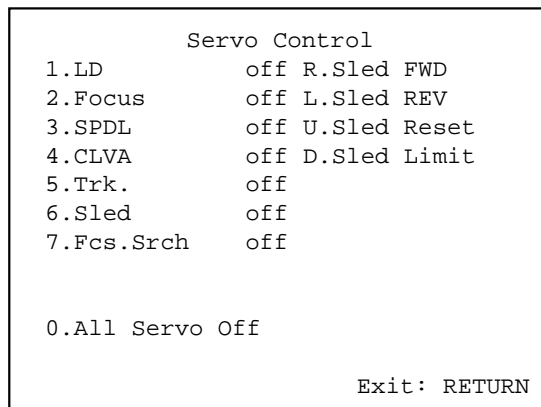
2-1-4. Disc Type Hybrid

It sets up so that it may judge as a disc type of specification of the disc with which the set was inserted.

-  : SACD Hybrid disc (SACD layer, 12 cm)
-  : SACD Hybrid disc (CD layer, normal speed, 12 cm)
-  : SACD Hybrid disc (CD layer, double speed, 12 cm)
-  : SACD Hybrid disc (SACD layer, 8 cm)
-  : SACD Hybrid disc (CD layer, normal speed, 8 cm)
-  : SACD Hybrid disc (CD layer, double speed, 8 cm)

2-2. Servo Control

Note: Be sure to perform the disc type setup before performing this item.



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 : Turn on/off the laser.
- [2] Focus : Search the focus and turn on the focus.
- [3] SPDL : Turn on/off the spindle.
- [4] CLVA : Turn on/off normal servo of spindle servo.
- [5] Trk. : Turn on/off the tracking servo.
- [6] Sled : Turn on/off the sled servo.
- [7] Fcs. Srch : Turn on/off the focus search.
- [10/0] : All servo off.
- [R] Sled FWD (right cursor) : Move the sled forward.
- [L] Sled REV (left cursor) : Move the sled reverse.
- [U] Sled FWD (up cursor) : Reset the sled.
- [D] Sled REV (down cursor) : Limit in the sled.

2-3. Track/Layer Jump

```

Track/Layer Jump
1. 1Tj FWD
2. 1Tj REV
3.500Tj Fine FWD
4.500Tj Fine REV
5.10kTj Dirc FWD
6.10kTj Dirc REV
7.20kTj Dirc FWD
8.20kTj Dirc REV

0. All Servo Off

Exit: RETURN
```

On this screen, track jump, etc. can be performed. Only for the DVD dual layer disc, 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] 500Tj FWD: 500 track jump (fine search)forward.
- [4] 500Tj REV : 500 track jump (fine search) reverse.
- [5] 10kTj FWD: 10k track jump (direct search) forward.
- [6] 10kTj REV : 10k track jump (direct search) reverse.
- [7] 20kTj FWD: 20k track jump (direct search) forward.
- [8] 20kTj REV : 20k track jump (direct search) reverse.
- [10/0] : All servo off.

2-4. Non EEPROM Write Adjust

```

Non EEPROM Write Adjust

1. Focus Offset
2. Focus Gain
3. Trk. Offset Coarse
4. Trk. Offset Fine
5. Trk. Gain
6. EQ Boost

0.All Servo Off

Exit: RETURN
```

On this screen, each item can be adjusted manually. Select the desired number [1] to [10/0] from the remote commander, and current setting

for the selected item will be displayed, then increase or decrease numeric value with the [↑] button or [↓] button. If CLV has been applied, the jitter is displayed for reference for the adjustment.

- [1] Focus Offset : Adjusts focus offset.
- [2] Focus Gain : Adjusts focus gain.
- [3] Trk. Offset Coarse : Adjusts tracking offset of the RF amp (IC001) side.
- [4] Trk. Offset Fine : Adjusts tracking offset of the DSP (IC509) side.
- [5] Trk. Gain : Adjusts tracking gain.
- [6] EQ Boost : Adjusts amount of boost of equalizer.
- [10/0] : All servo off.

2-5. EEPROM Write Adjust

```

EEPROM Write Adjust

1. Focus Offset
2. Focus Gain
3. Trk. Offset Coarse
4. _____
5. Trk. Gain
6. EQ Boost

0.All Servo Off

Exit: RETURN
```

On this screen, each item can be adjusted automatically. Select the desired number [1] to [10/0] from the remote commander, and selected item is adjusted automatically.

- [1] Focus Offset : Adjusts focus offset.
- [2] Focus Gain : Adjusts focus gain.
- [3] Trk. Offset Coarse : Adjusts tracking offset of the RF amp (IC001) side.
- [5] Trk. Gain : Adjusts tracking gain.
- [6] EQ Boost : Adjusts amount of boost of equalizer.
- [10/0] : All servo off.

2-6. Memory Check

Display images are shown as follows, and all two screens are able to switch by the [↑] button (UP) or [↓] button (DW).

```

EEPROM Data 1/2  CD  SL  L0  L1
Focus Gain      xx  xx  xx  xx
Trk. Gain       xx  xx  xx  xx
Focus Offset    xx  xx  xx  xx
Trk. Offset     xx  xx  xx  xx
EQ. Boost       xx  xx  xx  xx
PI Level        xx  xx  --  --
Fcs. Balance    --  xx  --  --
Jitter          xx  xx  xx  xx
Mirror Time     xx  xx  xx  --
FE Level        --  xx  --  --
Traverse Lvl.   --  xx  --  --
Next:DW Default:CLR      Exit:RET
```

```
EEPROM Data 2/2      CDRW  DVDRW
Focus Gain          xx   xx
Trk. Gain           xx   xx
Focus Offset        xx   xx
Trk. Offset         xx   xx
EQ. Boost           xx   xx

Prev:UP Default:CLR      Exit:RET
```

On this screen, current servo adjusted data stored in the EEPROM are displayed. The adjusted data are initialized by pressing the **CLEAR** button, but be careful that they are not recoverable after initialization.

Before clearing the adjusted data, make a note of the set data. This screen will also appear if **0**-All is selected in the Drive Auto Adjustment. In this case, default setting cannot be made.

2-7. Disc Check Memory

```
Disc Check Memory

1. SL Disc check
2. CD Disc check
3. DL Disc check

Exit: RETURN
```

On this screen, measure the mirror time of chucked disc, and write to the EEPROM.

2-8. Error Rate Display

```
Error Rate Display
      UC   CR Address
PI1 Err Now xx xxxx xxxxxxxx
      Max xx xxxx xxxxxxxx
      Avg xx xxxx
PI2 Err Now xx xxxx xxxxxxxx
      Max xx xxxx xxxxxxxx
      Avg xx xxxx
PO  Err Now xx xxxx xxxxxxxx
      Max xx xxxx xxxxxxxx
      Avg xx xxxx

Exit: RETURN
```

On this screen, measure and display the error rate.

UC : Incorrect value
 CR : Correct value
 Add : Address

2-9. SACD Water Mark Check (Not used)

```
SACD Water Mark Check

PSP AMP
PSN

Start: ENTER      Stop: RETURN
```

On this screen, measure the PSP AMP value and PSN value of SACD water mark.

3. MECHA AGING

On the Test Mode Menu screen, selecting **3** executes the aging of the mechanism deck.

```
### Aging Test MENU ###
** Pls use over 40min. CD **
Operation Menu

1. Open/Close Test

Exit: RETURN
```

- 1) On the Aging Test MENU screen, press the **1** button on the remote commander to display the Open/Close Test screen.
- 2) Insert discs and press the **ENTER** button on the remote commander.
- 3) It starts the aging. During aging, the disc number, operating status and repeat cycle are displayed. Aging can be aborted at any time by pressing the **ENTER** button. After the operation is stopped, press the **ENTER** button to return to the Aging Test MENU.

4. EMERGENCY HISTORY

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 the **↑** button or **↓** button. Also, specific information can be displayed by directly entering that number with ten keys.

```
### EMG. History ###

Laser Hours      CD  xxxhxhxxm
                  DVD xxxhxhxxm

a.  bb xx xx xx  xx xx xx xx
    xx xx xx xx  xx xx xx xx

a.  bb xx xx xx  xx xx xx xx
    xx xx xx xx  xx xx xx xx

Select:1-9      Scroll:UP/DOWN
(1.Latest EMG.) Exit: RETURN
```

xxxxhxxm: The laser on total hours. Data below minutes are omitted.
 a. : Error number.
 bb : Error code.
 xx : Not used.

• Clearing History Information

Clearing laser hours:

Press the **[DVD DISPLAY]** and **[CLEAR]** buttons in this order.
 Then both CD and DVD data are cleared.

Clearing emergency history:

Press the **[DVD TOP MENU]** and **[CLEAR]** buttons in this order.

Initializing set up data:

Press **[DVD MENU]** and **[CLEAR]** buttons in this order.
 The data have been initialized when "EEPROM Initialize Finished" message is displayed.

• Code list of Emergency History

- 10: Communication to RF amp (IC001) failed.
- 11: Each servo for focus, tracking, and spindle is unlocked.
- 12: Check sum error of EEPROM (IC204).
- 14: Communication to servo DSP (IC509) failed, or servo DSP (IC509) is faulty.
- 15: Communication to DVD decoder (IC701) failed, or DVD decoder (IC701) is faulty.
- 16: Communication to DSD decoder (IC801) failed, or DSD decoder (IC801) is faulty. (Not used)
- 20: Initialization of sled servo failed. It is not placed in the initial position.
- 23: Sled servo operation error.
- 24: Made a request to move the sled servo to wrong position.
- 30: Tracking balance adjustment error.
- 31: Tracking gain adjustment error.
- 33: Focus bias adjustment error.
- 34: Focus gain adjustment error.
- 35: Equalizer adjustment error.
- 40: Focus servo does not operate.
- 41: With a DVD dual layers disc, focus jump failed.
- 50: CLV (spindle) servo does not operate.
- 51: Spindle does not stop.
- 60: Made a request to seek nonexistent address.
- 61: Seek error of retry more than regulated times.
- 70: Control data could not be read.
- 80: Disc reading failed.

- aa: Initialization is completed or not.
 FF : Complete.
 other number : Not complete.
- bb: Operating status of mechanism deck at an error occurred. (lod sq jcp)
 00 : Initializing.
 10 to 15 : Open operating.
 16 to 19 : Kicking cause open failed.
 1A to 1F : Open operating.
 20 to 27 : Complete the open operation.
 28 : No disc and complete the open operation.
 29 to 2F : Complete the open operation.
 30 to 3F : Close requesting.
 40 to 4F : Open requesting.
 50 to 5F : Close operating.
 60 to 6F : Complete the chucking operation.
 80 to 8F : Complete the release operation. (BU is home position)
 90 to 9F : BU down operating.
 A0 to AF : Opening/closing the shutter. Or stationary state in open/close the shutter is enablement.
 B0 to BF : BU up requesting.
 C0 to CF : BU down requesting.
 D0 to DF : BU upping.
 E0 to EF : No disc checking in disc loading.
- cc : Operating status of table at an error occurred. (tbl sq jcp)
 13 : The rotation stop position determination error of a table
 11 to 12 : The loading position determination error of a table
- dd: Operating status of mechanism deck at an error occurred. (lod op jcp)
 00 : Complete the operation.
 10 to 1F : Open operating.
 20 to 2F : Close operating.
 30 to 3F : Release operating.
 60 to 6F : Chucking operating.
 70 to 7F : Kicking operating.
 80 to 8F : Returning the BU to home position. (after kicking)
- ee : The status of table operation. ("n" is unfixed) (tbl op jcp)
 1n : Rotating in the direction of a forward.
 2n : Rotating in the direction of a reverse.

5. MECHA ERROR HISTORY

On the Test Mode Menu screen, selecting **[5]** displays the information of mechanism deck error history.

The history information from last 1 up to 8 can be scrolled with the **[↑]** button or **[↓]** button.

```

### Mecha Error History ###

1. aa bb cc dd ee xx xx xx
2. aa bb cc dd ee xx xx xx
3. aa bb cc dd ee xx xx xx
4. aa bb cc dd ee xx xx xx
5. aa bb cc dd ee xx xx xx
6. aa bb cc dd ee xx xx xx
7. aa bb cc dd ee xx xx xx
8. aa bb cc dd ee xx xx xx

                                Scroll:UP/DOWN
(1.Latest Err.)                Exit: RETURN
    
```

6. VERSION INFORMATION

On the Test Mode Menu screen, selecting **[6]** displays the ROM version and region code.

The parenthesized hexadecimal number in version field is checksum value of ROM.

```
## Version Information ##

IF con.   Ver.x. xx

SYScon.   Ver.x. xx (xxxx)
          Model    MHC-RVXXXX
          Region   0x
          Config   xxxxxxxx

Front End Ver.x.xx

                               Exit: RETURN
```

IF con. : The version of system controller (IC501).

SYScon. : The version of DVD system processor (IC207).

Front End: The version of mechanism controller (IC901).

7. VIDEO LEVEL ADJUSTMENT

On the Test Mode Menu screen, selecting **[7]** displays color bars for video level adjustment. During display of color bars, OSD disappears but the menu screen will be restored if pressing the **[ENTER]** button.

SECTION 5 MECHANICAL ADJUSTMENTS

Precaution

1. Clean the following parts with a denatured alcohol-moistened swab:

record/playback heads	pinch rollers
erase head	rubber belts
capstan	idlers
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102C	3.06 N • m to 6.96 N • m 31 to 71 g • cm (0.43 – 0.98 oz • inch)
FWD back tension	CQ-102C	0.19 N • m to 0.58 N • m 2 to 6 g • cm (0.02 – 0.08 oz • inch)
REV	CQ-102RC	3.06 N • m to 6.96 N • m 31 to 71 g • cm (0.43 – 0.98 oz • inch)
REV back tension	CQ-102RC	0.19 N • m to 0.58 N • m 2 to 6 g • cm (0.02 – 0.08 oz • inch)
FF/REW	CQ-201B	6.96 N • m to 14.02 N • m 71 to 143 g • cm (0.98 – 1.99 oz • inch)
FWD tension	CQ-403A	9.80 N • m 100 g or more (3.53 oz or more)
REV tension	CQ-403R	9.80 N • m 100 g or more (3.53 oz or more)

SECTION 6 ELECTRICAL ADJUSTMENTS

DVD SECTION

About the decision to pass or fail of the optical pick-up block, refer to "DECISION TO PASS OR FAIL OF THE OPTICAL PICK-UP BLOCK" (see page 8)

TEST DISC LIST

Use the following test disc on test mode.

LUV-P01 (CD): PART No. 4-999-032-01

TDV-520CSO (DVD-SL): PART No. J-2501-236-A

TDV-540C (DVD-DL): PART No. J-2501-235-A

Note: Do not use exiting test disc for DVD.

AUTO SERVO ADJUSTMENT

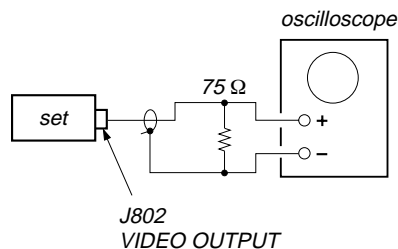
After parts related to the servo circuit (RF amplifier (IC001), DSP (IC509), motor driver (IC501), EEPROM (IC903) so on) are replaced, re-adjusting the servo circuit is necessary. Select "ALL" at "1. DRIVE AUTO ADJUSTMENT" (Refer to page 8 in TEST MODE) and adjust DVD-SL (single layer), CD and DVD-DL (dual layer).

VIDEO SECTION

Video Level Check (VIDEO BOARD)

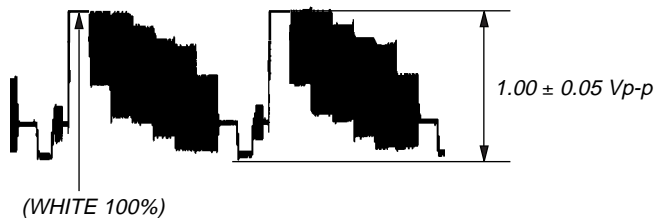
Purpose

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



Procedure:

1. Connect oscilloscope to VIDEO output.
2. Load a DVD reference disc playback.
3. Check the video signal level is 1.00 ± 0.05 Vp-p.



DECK SECTION

0 dB=0.775 V

1. Demagnetize the record/playback head with a head demagnetizer.
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjust.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
5. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
6. The adjustments should be performed for both L-CH and R-CH.
7. Switches and controls should be set as follows unless otherwise specified.

- Test Tape

Tape	Signal	Used for
P-4-A063	6.3 kHz, -10 dB	Azimuth Adjustment

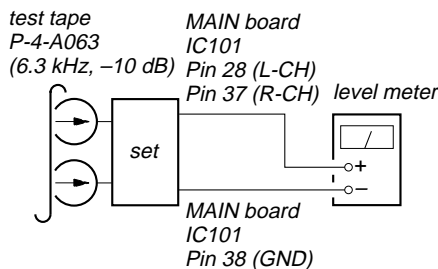
Record/Playback Head Azimuth Adjustment

DECK A DECK B

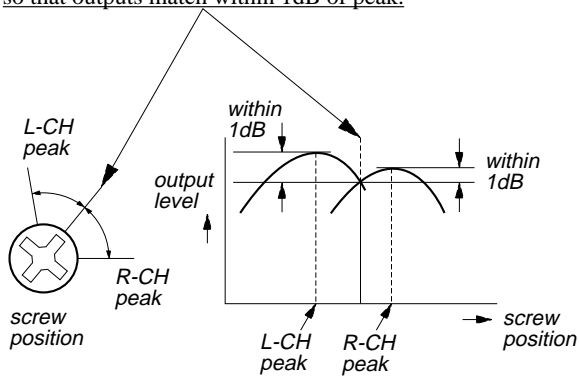
Note: Perform this adjustments for both decks

Procedure:

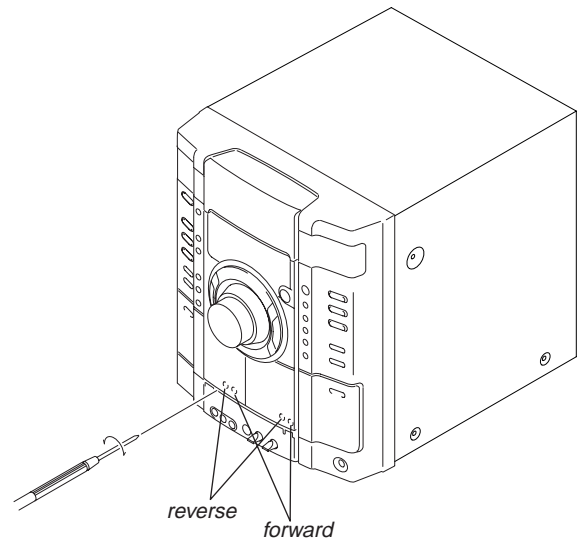
1. Mode: Playback



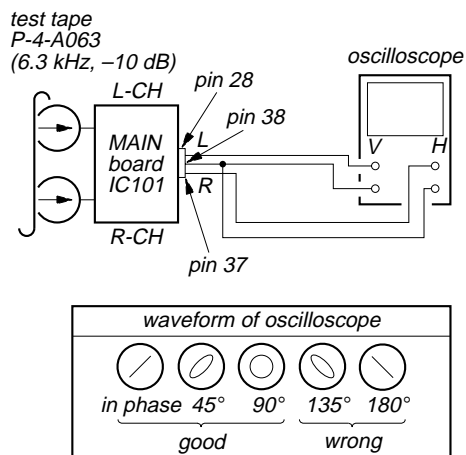
- Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1dB of peak.



Adjustment Location: Playback Head (Deck A).
Record/Playback/Erase Head (Deck B).



- Mode: Playback



- After the adjustments, apply suitable locking compound to the parts adjusted.

SECTION 7 DIAGRAMS

7-1. IC PIN DESCRIPTIONS

• IC701 TMC57929PGF-RDP (DVD DECODER) (DMB07 Board (3/8))

Pin No.	Pin Name	I/O	Pin Description
1, 2	D5, D6	I/O	Two-way data bus signal input from/output to mechanism control IC.
3	VSS	—	Ground pin
4	D7	I/O	Two-way data bus signal input from/output to mechanism control IC.
5	A0	I/O	Address signal input from/output to mechanism control IC.
6	VDD	—	Power supply pin (+3.2 V)
7	A1	I/O	Address signal input from/output to mechanism control IC.
8	VDD5V	—	Power supply pin (+5 V)
9 to 14	A2 to A7	I/O	Address signal input from/output to mechanism control IC.
15	VSS	—	Ground pin
16	XWAIT	O	Not used in this set. (Open)
17	XRD	I	Read strobe signal input from mechanism control IC.
18	XWR	I	Write strobe signal input from mechanism control IC.
19	XCS	I	Chip select signal input from mechanism control IC.
20, 21	XINT0, XINT1	O	Interrupt signal output to mechanism control IC.
22	VDD	—	Power supply pin (+3.2 V)
23	XHRS	I	Not used in this set. (Open)
24	HDB7	I/O	Stream data input from/output to DVD system processor IC.
25	VSS	—	Ground pin
26	HDB8	I/O	Error flag signal input from/output to DVD system processor IC.
27	HDB6	I/O	Stream data input from/output to DVD system processor IC.
28	VDDS	—	Power supply pin (+5 V)
29	HDB9	I/O	Not used in this set. (Open)
30	HDB5	I/O	Stream data input from/output to DVD system processor IC.
31	HDBA	I/O	Not used in this set. (Open)
32	HDB4	I/O	Stream data input from/output to DVD system processor IC.
33	VSS	—	Ground pin
34	HDBB	I/O	Not used in this set. (Open)
35	HDB3	I/O	Stream data input from/output to DVD system processor IC.
36	VDD	—	Power supply pin (+3.2 V)
37	HDBC	I/O	Not used in this set. (Open)
38	VDDS	—	Power supply pin (+5 V)
39	HDB2	I/O	Stream data input from/output to DVD system processor IC.
40	HDBD	I/O	Not used in this set. (Open)
41	HDB1	I/O	Stream data input from/output to DVD system processor IC.
42	VSS	—	Ground pin
43	HDBE	I/O	Not used in this set. (Open)
44	HDBO	I/O	Stream data input from/output to DVD system processor IC.
45	HDBF	I/O	Not used in this set. (Open)
46	HDRQ	O	Serial data effect flag signal output to DVD system processor IC.
47	VDDS	—	Power supply pin (+5 V)
48	XHWR	I	Serial data transfer clock signal input from DVD system processor IC.
49	XHRD	I	Not used in this set. (Open)
50	VDD	—	Power supply pin (+3.2 V)
51	REDY	O	Not used in this set. (Open)
52	VSS	—	Ground pin
53	XHAC	I	Serial data request signal input from DVD system processor IC. (DVD mode)
54	HINT	I/O	Not used in this set. (Fixed at H.)
55	XS16	I	Not used in this set. (Fixed at H.)
56	HA1	I	Not used in this set. (Fixed at H.)
57	XPDI	I/O	Not used in this set. (Fixed at H.)
58	VDDS	—	Power supply pin (+5 V)

Pin No.	Pin Name	I/O	Pin Description
59, 60	HA0, HA2	I	Not used in this set. (Fixed at H.)
61	VSS	—	Ground pin
62, 63	HCS0, HCS1	I	Not used in this set. (Open)
64	VDD	—	Power supply pin (+3.2 V)
65	DASP	I/O	Not used in this set. (Fixed at H.)
66 to 69	MDB0 to MDB3	I/O	Two-way data bus signal input from/output to 16Mbit D-RAM IC.
70	VSS	—	Ground pin
71	MDB4	I/O	Two-way data bus signal input from/output to 16Mbit D-RAM IC.
72	VDD5V	—	Power supply pin (+5 V)
73 to 75	MDB5 to MDB7	I/O	Two-way data bus signal input from/output to 16Mbit D-RAM IC.
76	XMWR	O	Write enable signal output to 16Mbit D-RAM IC.
77	VDD	—	Power supply pin (+3.2 V)
78	XRAS	O	Row address strobe signal output to 16Mbit D-RAM IC.
79, 80	MA0, MA1	O	Address signal output to 16Mbit D-RAM IC.
81	VSS	—	Ground pin
82 to 87	MA2 to MA7	O	Address signal output to 16Mbit D-RAM IC.
88	VDD	—	Power supply pin (+3.2 V)
89	MA8	O	Address signal output to 16Mbit D-RAM IC.
90	VSS	—	Ground pin
91	MA9/mnt0	O	Address signal output to 16Mbit D-RAM IC.
92	MA10/mnt1	O	EEPROM ready signal output to mechanism control IC.
93	MA11/mnt2	O	Address signal output to 16Mbit D-RAM IC.
94	XMOE	O	Output enable signal output to 16Mbit D-RAM IC.
95	XCAS	O	Column address strobe signal output to 16Mbit D-RAM IC.
96, 97	MDB8, MDB9	I/O	Two-way data bus signal input from/output to 16Mbit D-RAM IC.
98	VSS	—	Ground pin
99	MDBA	I/O	Two-way data bus signal input from/output to 16Mbit D-RAM IC.
100	VDD	—	Power supply pin (+3.2 V)
101, 102	MDBB, MDBC	I/O	Two-way data bus signal input from/output to 16Mbit D-RAM IC.
103	VDD5V	—	Power supply pin (+5 V)
104 to 106	MDBD to MDBF	I/O	Two-way data bus signal input from/output to 16Mbit D-RAM IC.
107	GFS	O	Guard frame sync signal output to mechanism control IC.
108	VSS	—	Ground pin
109	APE0	O	Absolute phase error signal output
110	VDD	—	Power supply pin (+3.2 V)
111	DASY0	O	RF binary signal output
112	GND45	—	Ground pin
113, 114	ASF1, ASF2	O	Filter connected pin for selection the constant asymmetry compensation.
115	DASY1	I	Analog signal input after integrated from the RF binary signal.
116	RFDC	I	Input pin for adjusting DC cut high-pass filter for RF signal.
117	RFIN	I	RF signal input from RS-232C. (for check)
118, 119	VCCA5, VCCA4	—	Power supply pin (+3.2 V)
120	VCOR1	I	VCO oscillating range setting resistor connected
121	VCOIN	I	VCO input
122, 123	GND44, GND43	—	Ground pin
124	LPF5	O	Inverted signal output to operation amplifier from PLL loop filter.
125	VC1	I	Middle point voltage (+1.65 V) input
126, 127	LPF2, LPF1	I	Inverted signal input from operation amplifier from PLL loop filter.
128, 129	VCCA3, VCCA2	—	Power supply pin (+3.2 V)
130	PD0	O	Signal output to charge pump for phase comparator.
131	PDHVCC	O	Middle point voltage output to RF PLL.
132	FDO	O	Signal output to charge pump for frequency comparator.
133, 134	GND42, GND41	—	Ground pin

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Pin No.	Pin Name	I/O	Pin Description
135	SPO	O	Spindle motor control signal output to focus/tracking coil driver, spindle/sled motor driver IC.
136	VC2	I	Middle point voltage (+1.65 V) input
137	MDIN2	I	Spindle motor servo drive signal input
138	MDIN1	I	MDP input
139	VCCA1	—	Power supply pin (+3.2 V)
140	CLVS	O	Control signal output to selection the spindle control filter constant at CLVS.
141	VSS	—	Ground pin
142	MDSOUT	O	Frequency error output pin of internal CLV circuit.
143	VDD	—	Power supply pin (+3.2 V)
144	MDPOUT	O	Phase error output pin of internal CLV circuit.
145	DFCT	I	DFCT signal input
146	GSCOR	I	Guard subcode sync (S0+S1) detection signal input from CD decoder, digital servo processor IC.
147	EXCK	O	Subcode serial data reading clock signal output to CD decoder, digital servo processor IC.
148	SBIN	I	Subcode serial data input from CD decoder, digital servo processor IC.
149	VSS	—	Ground pin
150	SCOR	I	Subcode sync (S0+S1) detection signal input from CD decoder, digital servo processor IC.
151	WFCK	I	Write frame clock signal input from CD decoder, digital servo processor IC.
152	VDD5V	—	Power supply pin (+5 V)
153	XRCI	I	Not used in this set. (Fixed at L.)
154	VDDS	—	Power supply pin (+5 V)
155	C2PO	I	C2 pointer signal input from CD decoder, digital servo processor IC.
156	VDD	—	Power supply pin (+3.2 V)
157	DBCK	O	Not used in this set. (Open)
158	BCLK	I	Bit clock signal (2.8224 MHz) input from CD decoder, digital servo processor IC.
159	DDAT	O	Not used in this set. (Open)
160	MDAT	I	Signal data input from CD decoder, digital servo processor IC.
161	VSS	—	Ground pin
162	DLRC	O	Not used in this set. (Open)
163	LRCK	I	L/R sampling clock signal (44.1 kHz) input from CD decoder, digital servo processor IC.
164	XRST	I	Reset signal input from mechanism control IC. (L: reset)
165	IFS0	I	Not used in this set. (Fixed at L.)
166	IFS1	I	Not used in this set. (Fixed at H.)
167	XTAL	I	33.8688 MHz clock signal input from clock generator IC.
168	VSS	—	Ground pin
169	XTL2	O	33.8688 MHz clock signal output to clock generator IC.
170	XTL1	I	33.8688 MHz clock signal input from clock generator IC.
171	VDD	—	Power supply pin (+3.2 V)
172 to 176	D0 to D4	I/O	Two-way data bus signal input from/output to mechanism control IC.

• IC901 CXP973064-243R (MECHANISM CONTROL) (DMB07 Board (5/8))

Pin No.	Pin Name	I/O	Pin Description
1	NO_USE	O	Not used. (Open)
2	SDEN	O	Serial data enable signal output to CD/DVD/SACD RF amp, focus/tracking error amp IC.
3	DOCTRL/ISBTEST	O	Digital out ON/OFF control signal output to CD decoder, digital servo processor IC.
4	XRST_2753	O	Not used in this set. (Open)
5	SDA_EEP	I/O	Data bus signal input from/output to EEPROM IC.
6	MNT1	I	EEPROM ready signal input from DVD decoder IC.
7	FCS_JMP_1	O	Focus jump 1 signal output to focus/tracking coil driver, spindle/sled motor driver IC.
8	FCS_JMP_2	O	Focus jump 2 signal output to focus/tracking coil driver, spindle/sled motor driver IC.
9	SENS_CD	I	Internal status (SENSE) signal input from CD decoder, digital servo processor IC.
10	CDSP2	O	CD spectrum signal output to CD decoder, digital servo processor IC.
11	CDSP4	O	CD spectrum signal output to CD decoder, digital servo processor IC.
12	XCS_DVD	O	Chip select signal output to DVD decoder IC.
13	VSS	—	Ground pin
14 to 21	D0 to D7	I/O	Two-way data bus signal input from/output to DVD decoder IC.
22, 23	INIT0_DVD, INIT1_DVD	I	Interrupt signal input from DVD decoder IC.
24	MSCK_SAMBA	O	Not used in this set. (Fixed at L.)
25	XRST_1882	O	Reset signal output to DVD decoder IC.
26	SCOR	I	Subcode sync (S0+S1) detection signal input from CD decoder, digital servo processor IC.
27	LAT_CD	O	Serial data latch pulse signal output to CD decoder, digital servo processor IC.
28	LDON	O	Laser diode ON/OFF control signal output to CD/DVD/SACD RF amp, focus/tracking error amp IC.
29	MIRR	I	Mirror signal input from CD/DVD/SACD RF amp, focus/tracking error amp IC.
30	COUT_CD	I	Numbers of track counted signal input from CD/DVD/SACD RF amp, focus/tracking error amp IC.
31	INLIM	I	Detection signal input from limit in switch. The optical pick-up is inner position when H.
32	CS_ZIVA	O	Chip select signal output to DVD system processor IC.
33	SI_ZIVA	I	Serial data input from DVD system processor IC.
34	SO_ZIVA	O	Serial data output to DVD system processor IC.
35	SCK_ZIVA	O	Serial data transfer clock signal output to DVD system processor IC.
36	DRVIRQ	O	Interrupt request signal output to DVD system processor IC.
37	DRVRDY	O	Ready signal output to DVD system processor IC.
38	RST	I	System reset signal input from DVD system processor IC.
39	VSS	—	Ground pin
40	XTAL	I	System clock input (20 MHz)
41	EXTAL	O	System clock output (20 MHz)
42	VDD	—	Power supply pin (+3.2 V)
43, 44	SLED_A, SLED_B	O	Sled motor drive signal output to focus/tracking coil driver, spindle/sled motor driver IC.
45	SCK_DSD	O	Clock signal output to DVD decoder IC.
46	SDOUT_DSD	O	Not used in this set. (Open)
47	SDIN_DSD	I	Not used in this set. (Open)
48	READY_DSD	I	Not used in this set. (Open)
49	DATA_CD	O	Serial data output to CD decoder, digital servo processor IC.
50	CLOK_CD	O	Serial data transfer clock signal output to CD decoder, digital servo processor IC.
51	XMSLAT	O	Not used in this set. (Open)
52	SQSO	I	Subcode Q data input from DVD decoder IC.
53	MUTE_DSD	O	Not used in this set. (Open)
54	SQCK	O	Subcode Q data reading clock signal output to DVD decoder IC.
55	VSS	—	Ground pin

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Pin No.	Pin Name	I/O	Pin Description
56, 57	CONTROL_2, CONTROL_1	I	Not used.
58	GFS_DVD	I	Guard frame sync signal input from DVD decoder IC.
59	MUTE_CD	O	Muting ON/OFF control signal output to CD decoder, digital servo processor IC.
60	MUTE_2D	O	Muting ON/OFF control signal output to focus/tracking coil driver, spindle/sled motor driver IC.
61	SLED	I	Sled motor servo drive PWM signal input from CD decoder, digital servo processor IC.
62	FG	I	Spindle motor control signal input from CD/DVD/SACD RF amp, focus/tracking error amp IC.
63	SP_ON	O	Muting ON/OFF control signal output to focus/tracking coil driver, spindle/sled motor driver IC.
64	JIT	I	Jitter signal input
65	TE	I	Tracking error signal input from CD/DVD/SACD RF amp, focus/tracking error amp IC.
66	PI	I	Pull in signal input from CD/DVD/SACD RF amp, focus/tracking error amp IC.
67	FE	I	Focus error signal input from CD/DVD/SACD RF amp, focus/tracking error amp IC.
68	AVSS	—	Ground pin
69	AVREF	I	Reference voltage input (for A/D converter)
70	AVDD	—	Power supply pin (+3.2 V) (for A/D converter)
71	GFS_CD	I	Guard frame sync signal input from CD decoder, digital servo processor IC.
72	SCLK_CD	O	SENSE serial data reading clock signal output to CD decoder, digital servo processor IC.
73	TSD-M	O	Thermal shut down signal output to focus/tracking coil driver, spindle/sled motor driver IC.
74	FOK_CD	I	Focus OK signal input from CD decoder, digital servo processor IC.
75	LOCK_CD	I	GFS is sampled by 460 Hz. (H input when GFS is H)
76	LDSEL	O	Laser diode selection signal output
77	SACD/DVD	O	SACD/DVD selection signal output
78	I2C_SIO	I/O	Communication data bus signal input/output
79	I2C_SCL	I/O	Communication data reading clock signal input/output
80	RXD	I	Serial data input from RS-232C. (for check)
81	TXD	O	Serial data output to RS-232C. (for check)
82	SDCLK_RF	O	Serial data transfer clock signal output to CD/DVD/SACD RF amp, focus/tracking error amp IC.
83	SDATA_RF	I/O	Two-way data bus signal input from/output to CD/DVD/SACD RF amp, focus/tracking error amp IC.
84	XWR	O	Write strobe signal output to DVD decoder IC.
85	XRD	O	Read strobe signal output to DVD decoder IC.
86	(PWE)	—	Not used in this set. (Fixed at H.)
87	VDD	—	Power supply pin (+3.2 V)
88	VSS	—	Ground pin
89 to 96	A0 to A8	O	Address signal output to DVD decoder IC.
97	A8	O	Power save control signal output to focus/tracking coil driver, spindle/sled motor driver IC.
98	XDRST	O	Reset signal output to CD decoder, digital servo processor IC.
99	WP_EEP	O	Write protect signal output to EEPROM IC.
100	SCL_EEP	O	Clock signal output to EEPROM IC.

• IC207 ZIVA5X-C2F (DVD SYSTEM PROCESSOR) (DMB07 Board (7/8))

Pin No.	Pin Name	I/O	Pin Description
1	VDDP	—	Power supply pin (+3.2 V) (I/O signal)
2	HA1	I/O	Address bus signal input from/output to bus interface IC.
3 to 11	HAD15 to HAD7	I/O	Data bus (address signal multiplexed) signal input from/output to bus interface IC.
12	VDDP	—	Power supply pin (+3.2 V) (I/O signal)
13	GNDP	—	Ground pin (I/O signal)
14 to 19	HAD6 to HAD1	I/O	Data bus (address signal multiplexed) signal input from/output to bus interface IC.
20	VDDP	—	Power supply pin (+3.2 V) (I/O signal)
21	GNDP	—	Ground pin (I/O signal)
22	HAD0	I/O	Data bus (address signal multiplexed) signal input from/output to bus interface IC.
23	HDTACK	I/O	Not used in this set. (Fixed at H.)
24	HIRQ0	I	Not used in this set. (Fixed at H.)
25	WEH.UDS	I/O	Host upper data strobe signal input from/output to programmable ROM IC.
26	WEL.LDS	I/O	Not used in this set. (Open)
27	HREAD	I/O	Read/write strobe signal input from/output to programmable ROM IC.
28	GPIO0(1)	I/O	Jig detection port
29	GND	—	Ground pin (inside core)
30	VDD	—	Power supply pin (+1.8 V) (inside core)
31	GND25	—	Ground pin (SDRAM I/O signal)
32	VDD25	—	Power supply pin (+3.2 V) (SDRAM I/O signal)
33 to 42	MA9 to MA0	O	SDRAM address bus signal output to 128 Mbit SD-RAM IC.
43	GND25	—	Ground pin (SDRAM I/O signal)
44	VDD25	—	Power supply pin (+3.2 V) (SDRAM I/O signal)
45, 46	MA10, MA11	O	SDRAM address bus signal output to 128 Mbit SD-RAM IC.
47, 48	BA1, BA0	O	SDRAM bank select signal output to 128 Mbit SD-RAM IC.
49	MCS0	O	SDRAM chip select signal output to 128 Mbit SD-RAM IC.
50	MCS1	O	Not used in this set. (Open)
51	MRAS	O	SDRAM row address strobe signal output to 128 Mbit SD-RAM IC.
52	MCAS	O	SDRAM column address strobe signal output to 128 Mbit SD-RAM IC.
53	MWE	O	SDRAM write enable signal output to 128 Mbit SD-RAM IC. (H: read, L: write)
54	GND25	—	Ground pin (SDRAM I/O signal)
55	VDD25	—	Power supply pin (+3.2 V) (SDRAM I/O signal)
56	MCLK	O	SDRAM clock signal output to 128 Mbit SD-RAM IC.
57 to 60	MD0 to MD3	I/O	SDRAM data input from/output to 128 Mbit SD-RAM IC.
61	GND25	—	Ground pin (SDRAM I/O signal)
62	MDQM0	O	Byte read/write mask signal output to 128 Mbit SD-RAM IC.
63	VDD25	—	Power supply pin (+3.2 V) (SDRAM I/O signal)
64 to 71	MD4 to MD11	I/O	SDRAM data input from/output to 128 Mbit SD-RAM IC.
72	GND25	—	Ground pin (SDRAM I/O signal)
73	MDQM1	O	Byte read/write mask signal output to 128 Mbit SD-RAM IC.
74	VDD25	—	Power supply pin (+3.2 V) (SDRAM I/O signal)
75 to 78	MD12 to MD15	I/O	SDRAM data input from/output to 128 Mbit SD-RAM IC.
79	GND	—	Ground pin (inside core)
80	VDD	—	Power supply pin (+1.8 V) (inside core)
81 to 84	MD16 to MD19	I/O	SDRAM data input from/output to 128 Mbit SD-RAM IC.
85	GND25	—	Ground pin (SDRAM I/O signal)
86	MDQM2	O	Byte read/write mask signal output to 128 Mbit SD-RAM IC.
87	VDD25	—	Power supply pin (+3.2 V) (SDRAM I/O signal)
88 to 95	MD20 to MD27	I/O	SDRAM data input from/output to 128 Mbit SD-RAM IC.
96	GND25	—	Ground pin (SDRAM I/O signal)
97	MDQM3	O	Byte read/write mask signal output to 128 Mbit SD-RAM IC.
98	VDD25	—	Power supply pin (+3.2 V) (SDRAM I/O signal)
99 to 102	MD28 to MD31	I/O	SDRAM data input from/output to 128 Mbit SD-RAM IC.

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Pin No.	Pin Name	I/O	Pin Description
103	GND25	—	Ground pin (SDRAM I/O signal)
104	VDD25	—	Power supply pin (+3.2 V) (SDRAM I/O signal)
105	VCLK	I/O	Not used in this set. (Open)
106	XCK_I/O_SEL	I/O	Not used in this set. (Open)
107	VS	O	S1 signal output
108	I/P SW	O	I/P select switch signal output
109	CDSEL	O	CD-DA select signal output
110	MREQ	O	Audio muting signal output to sound control IC.
111	VDDP	—	Power supply pin (+3.2 V) (I/O signal)
112	GNDP	—	Ground (I/O signal)
113	MDI	O	Serial data output to 2CH DAC IC (HCD-RV777D) and D/A converter IC (HCD-RV888D/RV999D).
114	MC	O	Serial data clock signal output to 2CH DAC IC (HCD-RV777D) and D/A converter IC (HCD-RV888D/RV999D).
115	ML	O	Latch enable signal output to 2CH DAC IC (HCD-RV777D) and D/A converter IC (HCD-RV888D/RV999D).
116	HIRQ2	I	Busy signal input from EEPROM IC.
117	VDAC_4B	—	Video DAC bias bit 4 (Connect to ground.)
118	VDAC_VDD4	—	Power supply pin (+3.3 V) (Video DAC 4)
119	VDAC_4	O	VDAC output 4
120	VDAC_3B	—	Video DAC bias bit 3 (Connect to ground.)
121	VDAC_VDD3	—	Power supply pin (+3.3 V) (Video DAC 3)
122	VDAC_3	O	VDAC output 3
123	VDAC_2B	—	Video DAC bias bit 2 (Connect to ground.)
124	VDAC_VDD2	—	Power supply pin (+3.3 V) (Video DAC 2)
125	VDAC_2	O	VDAC output 2
126	VDAC_1B	—	Video DAC bias bit 1 (Connect to ground.)
127	VDAC_VDD1	—	Power supply pin (+3.3 V) (Video DAC 1)
128	VDAC_1	O	VDAC output 1
129	VDAC_0B	—	Video DAC bias bit 0 (Connect to ground.)
130	VDAC_VDD0	—	Power supply pin (+3.3 V) (Video DAC 0)
131	VDAC_0	O	VDAC output 0
132	VDAC_DVSS	—	Ground pin (Video DAC digital system)
133	VDAC_DVDD	—	Power supply pin (+3.2 V) (Video DAC digital system)
134	VDAC_REFVDD	—	Power supply pin (+3.3 V) (Video DAC reference)
135	VDAC_REF	I	Reference voltage input (for Video DAC)
136	VDAC_REFVSS	—	Ground pin (Video DAC reference)
137	XVSS	—	Ground pin (crystal oscillator)
138	XOUT	O	Not used in this set. (Open)
139	XIN	I	Crystal oscillation signal input
140	XVDD	—	Power supply pin (+3.2 V) (crystal oscillator)
141	AVSS2	—	Ground pin (analog PLL)
142, 143	AVDD2, AVDD1	—	Power supply pin (+3.2 V) (analog PLL)
144	AVSS1	—	Ground pin (analog PLL)
145	VDD	—	Power supply pin (+1.8 V) (inside core)
146	GND	—	Ground pin (inside core)
147	XCK	O	Audio system clock signal output to 2CH DAC IC (HCD-RV777D) and D/A converter IC (HCD-RV888D/RV999D).
148	LRCK	O	LRCK signal output to 2CH DAC IC (HCD-RV777D) and D/A converter IC (HCD-RV888D/RV999D).
149	BCK	O	BCK signal output to 2CH DAC IC (HCD-RV777D) and D/A converter IC (HCD-RV888D/RV999D).
150	DATA0(DM)	O	Audio data (down mix signal) output to D/A converter IC (HCD-RV888D/RV999D).

Pin No.	Pin Name	I/O	Pin Description
151	DATA1(FLR)	O	Audio data (front L/R signal) output to 2CH DAC IC (HCD-RV777D) and D/A converter IC (HCD-RV888D/RV999D).
152	VDDP	—	Power supply pin (+3.2 V) (I/O signal)
153	GNDP	—	Ground pin (I/O signal)
154	DATA2(SLR)	O	Audio data (rear L/R signal) output to D/A converter IC (HCD-RV888D/RV999D).
155	DATA3(CSW)	O	Audio data (center/subwoofer signal) output to D/A converter IC (HCD-RV888D/RV999D).
156	IEC958	O	S/PDIF signal output
157	DAI_DATA	I	Not used in this set. (Open)
158	DAI_BCK	I	Not used in this set. (Open)
159	DAI_LRCK	I	Not used in this set. (Open)
160	I2C_CL	I/O	I2C clock bus signal input from/output to mechanism control IC.
161	I2C_DA	I/O	I2C data bus signal input from/output to mechanism control IC.
162	CS(ZIVA_E2P)	O	Chip select signal output to EEPROM IC.
163	RXD1	I	Serial data input from check jig
164	TXD1	O	Serial data output to check jig
165	WRITE_CTRL(ZIVA_E2P)	O	Write control signal output to EEPROM IC.
166	GNDP	—	Ground pin (I/O signal)
167	VDDP	—	Power supply pin (+3.2 V) (I/O signal)
168 to 171	SDDATA7 to SDDATA4	I	SDBUS data input from DVD decoder IC.
172	GND	—	Ground pin (inside core)
173	VDD	—	Power supply pin (+1.8 V) (inside core)
174 to 177	SDDATA3 to SDDATA0	I	SDBUS data input from DVD decoder IC.
178	SDREQ	O	SDBUS data request signal output to DVD decoder IC.
179	SDEN	I	SDBUS data enable signal input from DVD decoder IC.
180	GNDP	—	Ground pin (I/O signal)
181	VDDP	—	Power supply pin (+3.2 V) (I/O signal)
182	SDERROR	I	SDBUS data error signal input from DVD decoder IC.
183	SDCLK	I	SDBUS data clock signal input from DVD decoder IC.
184	HIRQ1	I	Interrupt signal input from mechanism control IC.
185	DRVCLK	I	Serial data clock signal input from mechanism control IC.
186	DRVTX	I	Serial data input from mechanism control IC and EEPROM IC.
187	DRVRX	O	Serial data output to mechanism control IC and EEPROM IC.
188	DRVRDY	I	Ready signal input from mechanism control IC.
189	VNW	—	Power supply for 5 V tolerance voltage input
190	ALE	O	Latch enable signal output for address data demux.
191	RST_SPC	O	Reset signal output to mechanism control IC.
192	INT/EXT	O	Not used in this set. (Open)
193	HCS2	O	Not used in this set. (Open)
194	HCS1	I/O	Not used in this set. (Open)
195	HCS0	O	Chip select signal output to programmable ROM IC.
196	VDDP	—	Power supply pin (+3.2 V) (I/O signal)
197	TRST	I	Reset signal input
198	TDO	O	Data output
199	TDI	I	Data input
200	TMS	I	TMS signal input
201	TCK	I	TCK signal input
202	RESET	I	ZIVA reset signal input
203	BUS CLK	I/O	Not used in this set. (Open)
204	GND	—	Ground pin (inside core)
205	VDD	—	Power supply pin (+1.8 V) (inside core)
206, 207	HA3, HA2	I/O	Address bus signal input from/output to bus interface IC.
208	GNDP	—	Ground pin (I/O signal)

• IC701 M30620MCN-A38FPU0 (MASTER CONTROL) (MAIN Board (3/3))

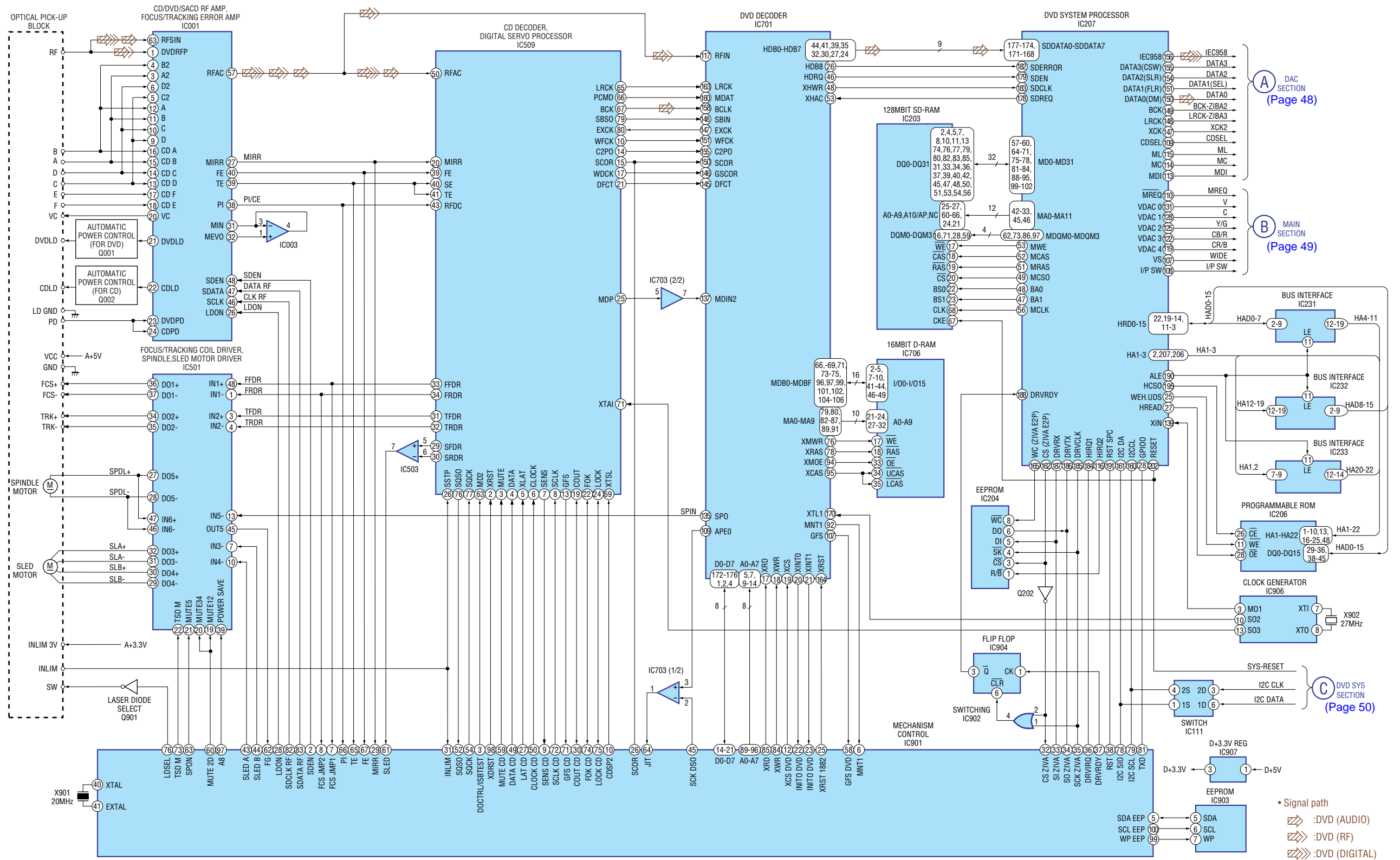
Pin No.	Pin Name	I/O	Pin Description
1	S-OUT	O	Serial out signal output
2	S-CLK	O	Serial clock signal output
3	M61530-CLK	O	M61530FP clock signal output
4	SIRCS	I	Sircs signal input
5	M61530-DATA	O	M61530FP data signal output
6	M61530-DATA	O	M61530FP data signal output
7	M61537-CLK	O	M61537FP clock signal output
8	EXT.BUS-INPUT	I	External bus input with selector input (Fixed at L.)
9	PROCESSOR.MODE-SW	I	Processor mode switch signal input (Fixed at L.)
10	SUB.CLOCK-IN	I	Sub clock signal input (32.768 kHz)
11	SUB.CLOCK-OUT	O	Sub clock signal output (32.768 kHz)
12	RESET	I	System reset signal input
13	SYSTEM.CLOCK.OUT (16M)	O	System clock signal output (16 MHz)
14	VSS	—	Ground pin
15	SYSTEM.CLOCK.IN (16M)	I	System clock signal input (16 MHz)
16	VCC	—	Power supply pin (+3.3 V)
17	PULL.UP (EVER3.3V)	I	Pull up (EVER +3.3 V)
18	RDS-INT	I	RDS clock signal input Not used in this set. (Fixed at L.)
19	NO-USE	I	Not used. (Fixed at L.)
20	AC-CUT	I	AC cut select signal input (L: ON, H: OFF)
21	RDS-DATA	I	Not used in this set. (Fixed at L.)
22	ST-MUTE	O	Stereo mute select signal output (L: OFF, H: ON)
23	STEREO	I	Stereo select signal input (L: ON, H: OFF)
24	TUNED	I	Tuned select signal input (L: ON, H: OFF)
25	ST-CE	O	Stereo chip enable signal output
26	ST-DOUT	O	Stereo data out signal output
27	ST-DIN	I	Stereo data in signal input
28	ST-CLK	O	Stereo clock signal output
29	IIC-CLK	I/O	IIC clock signal input/output
30	IIC-DATA	I/O	IIC data input/output
31	SYS-POWER	O	System power select signal output (L: OFF, H: ON)
32	SYS-RESET	O	System reset signal output
33	M-REQ	I	DAC mute request select signal input from ZIVA. (L: ON, H: OFF)
34	VIDEO-MUTE2	O	Video mute 2 select signal output (L: ON, H: OFF)
35	VIDEO-MUTE1	O	Video mute 1 select signal output (L: ON, H: OFF)
36	VIDEO-OUT-SW	O	Video out switch select signal output (L: DVD, H: other)
37	REAR-MUTE	O	Surround (rear) mute select signal output (L: ON, H: OFF)
38	CENTER-MUTE	O	Center mute select signal output (L: ON, H: OFF)
39	SWFR-MUTE	O	Sub woofer mute select signal output (L: ON, H: OFF)
40 to 44	NO-USE	O	Not used. (Fixed at L.)
45	M-RESET	O	Reset signal output
46	STANDBY-LED	O	Standby LED control signal output (L: OFF, H: ON)
47	TBL-POS	O	Table motor drive control signal output (+)
48	TBL-NEG	O	Table motor drive control signal output (-)
49	LOD-POS	O	Loading motor drive control signal output (+)
50	LOD-NEG	O	Loading motor drive control signal output (-)
51	ENCODER-SW1	I	Disc tray address signal input (Disc 1)
52	ENCODER-SW2	I	Disc tray address signal input (Disc 2)
53	ENCODER-SW3	I	Disc tray address signal input (Disc 3)
54	EJECT-SW	I	Open/close select signal input (L: open, H: close)
55	T-SENS	I	Table sensor signal input

Pin No.	Pin Name	I/O	Pin Description
56	HP-SW	I	Headphones in/out select signal input (L: out, H: in)
57	MIC-SW	I	Microphone in/out select signal input (L: out, H: in)
58	A-TRG	O	Trigger out ON/OFF select signal output (deck A) (L: OFF, H: ON)
59	B-TRG	O	Trigger out ON/OFF select signal output (deck B) (L: OFF, H: ON)
60	A-SHUT-IN	I	Reel pulse signal input (deck A)
61	B-SHUT-IN	I	Reel pulse signal input (deck B)
62	VCC	—	Power supply pin (+3.3 V)
63	NO-USE	I	Not used in this set. (Open)
64	VSS	—	Ground pin
65	CAPM-CONT	O	Capstan motor ON/OFF select signal output (L: OFF, H: ON)
66	B-REC.FWD	I	REC (FWD) switch in signal input (deck B) (active L)
67	B-REC.REV	I	REC (REV) switch in signal input (deck B) (active L)
68	A-HALF	I	Half in signal input (deck A) (active L)
69	B-HALF	I	Half in signal input (deck B) (active L)
70	A-PLAY	I	Playback switch in signal input (deck A) (active L)
71	B-PLAY	I	Playback switch in signal input (deck B) (active L)
72	AMS-IN	I	AMS in select signal input (L: without music, H: with music)
73	DISPLAY-KEY	I	Display key signal input (active L)
74	POWER-KEY	I	Power key signal input (active L)
75, 76	NO-USE	I	Not used in this set. (Fixed at L.)
77	BIAS	O	Bias ON/OFF select signal output (L: OFF, H: ON)
78	AMS MUTE	O	AMS mute select signal output
79	TC-RELAY	O	Tape REC/PB control signal output (H: REC, L: PB (other))
80	PB-MUTE	O	PB mute select signal output (L: ON, H: OFF)
81	REC-MUTE	O	REC mute select signal output (L: ON, H: OFF) Not used in this set. (Open)
82	NO-USE	I	Not used in this set. (Fixed at L.)
83	LINEOUT-MUTE	O	MD (VIDEO) mute ON/OFF select signal output (L: ON, H: OFF)
84	LINE-MUTE	O	TA line mute ON/OFF select signal output (L: ON, H: OFF)
85	STK-MUTE	O	STK mute ON/OFF select signal output (L: ON, H: OFF)
86	PROTECT	I	Protect ON/OFF select signal input (L: ON, H: OFF)
87	STB-RELAY	O	Standby relay ON/OFF select signal output (L: OFF, H: ON)
88	FRONT-RELAY	O	Front speaker relay ON/OFF select signal output (L: OFF, H: ON)
89	REAR-RELAY	O	Rear/center/sub woofer speaker relay ON/OFF select signal output (L: OFF, H: ON)
90	VACS-IN2	I	VACS in 2 signal input (thermal VACS)
91	VACS-IN1 ILLUMI-IN	I	VACS & Illumi in 1 signal input (A/D)
92	FAN CONT	O	Fan motor control signal output (L: OFF, H: 300 msec)
93	FAN ON/OFF	O	Fan motor ON/OFF select signal output (L: ON, H: OFF)
94	MODEL-IN	I	Model in signal input (A/D)
95	SPEC-IN	I	Destination in signal input (A/D)
96	AVSS	—	Analog ground pin
97	NO-USE	I	Not used in this set. (Fixed at L.)
98	V.REF	—	AV reference voltage pin (+3.3 V)
99	AVCC	—	Power supply pin (+3.3 V)
100	S-IN	I	Serial in signal input

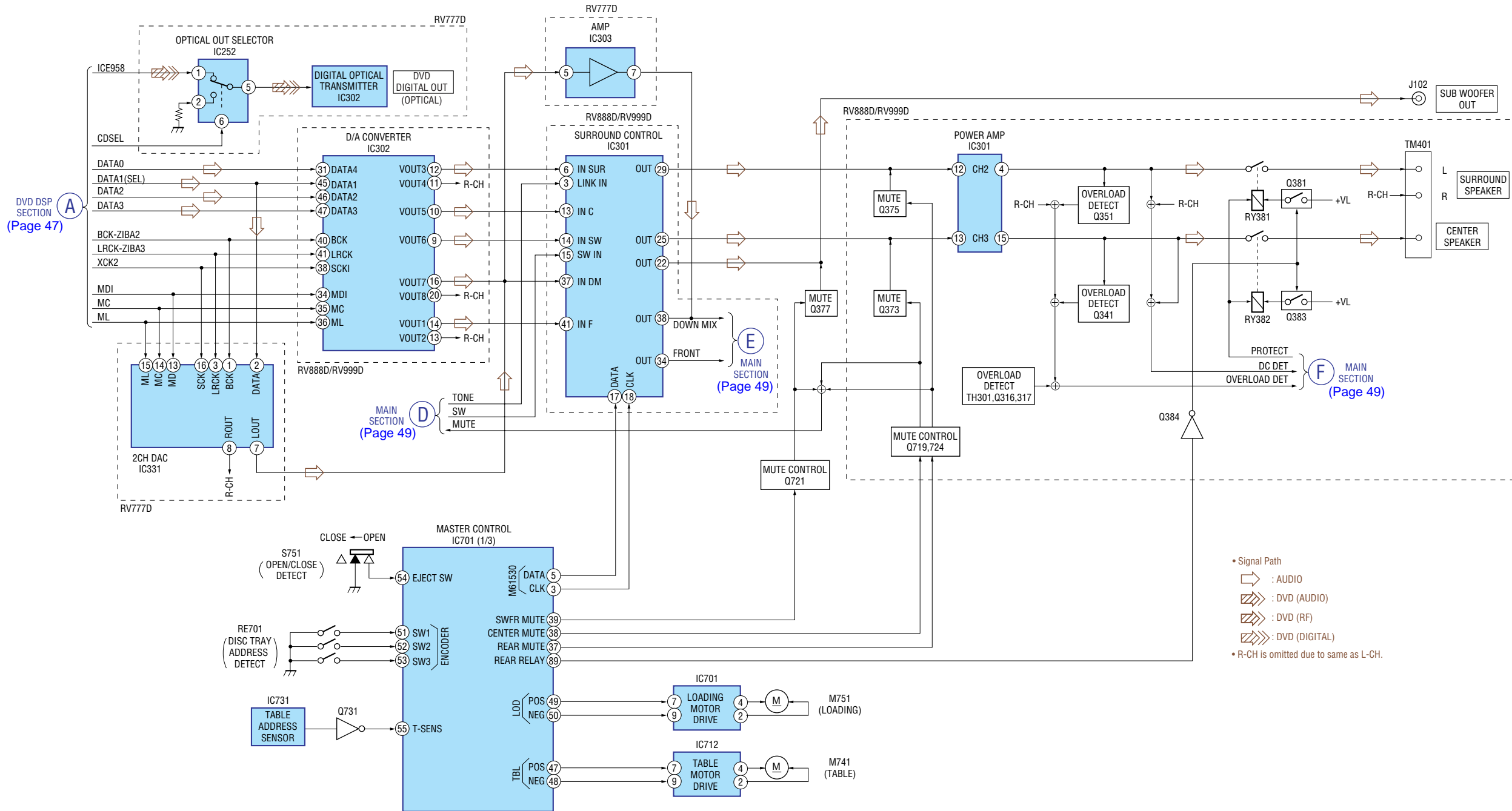
• IC101 μ PD780232GC-504-8BT-A (SYSTEM CONTROL) (PANEL Board)

Pin No.	Pin Name	I/O	Pin Description
1	VDD	—	Power supply pin (+3.3 V)
2	VSS	—	Ground pin
3	X1	I	System clock signal input (5 MHz)
4	X2	I	System clock signal input (5 MHz)
5	IC	I	Directly connect to ground.
6	RESET	I	Reset signal input (active L)
7	S-CLK	I	Serial clock signal input
8	S-IN	I	Serial data in signal input
9	S-OUT	O	Serial data out signal output
10 to 14	NC-L	O	Not used in this set. (Fixed at L.)
15	VOL-A	I	VOLUME encoder in A signal input
16	VOL-B	I	VOLUME encoder in B signal input
17	NC-L	I	Not used in this set. (Fixed at L.)
18	AVSS	—	Analog ground pin
19	NC-L	I	Not used in this set. (Fixed at L.)
20 to 22	KEY3 to KEY1	I	Key in signal input
23	VSS	—	Ground pin
24	AVDD	—	Analog power supply pin (+3.3 V)
25	VDD	—	Power supply pin (+3.3 V)
26 to 33	NC-L	I	Not used in this set. (Fixed at L.)
34 to 39	PS07 to PS12	O	Illumination LED drive control signal output (L: OFF, H: ON)
40	MULTI/I-BASS	O	Not used in this set. (Fixed at L.)
41	NC	O	Not used. (Open)
42, 43	NC-L	O	Not used in this set. (Fixed at L.)
44 to 58	S1 to S15	O	FL segment control signal output (L: OFF, H: ON)
59	VDD	—	Power supply pin (+3.3 V)
60	V.LOAD	I	V.LOAD signal input
61 to 66	S16 to S21	O	FL segment control signal output (L: OFF, H: ON)
67 to 80	G1 to G13	O	FL grid control signal output (L: OFF, H: ON)

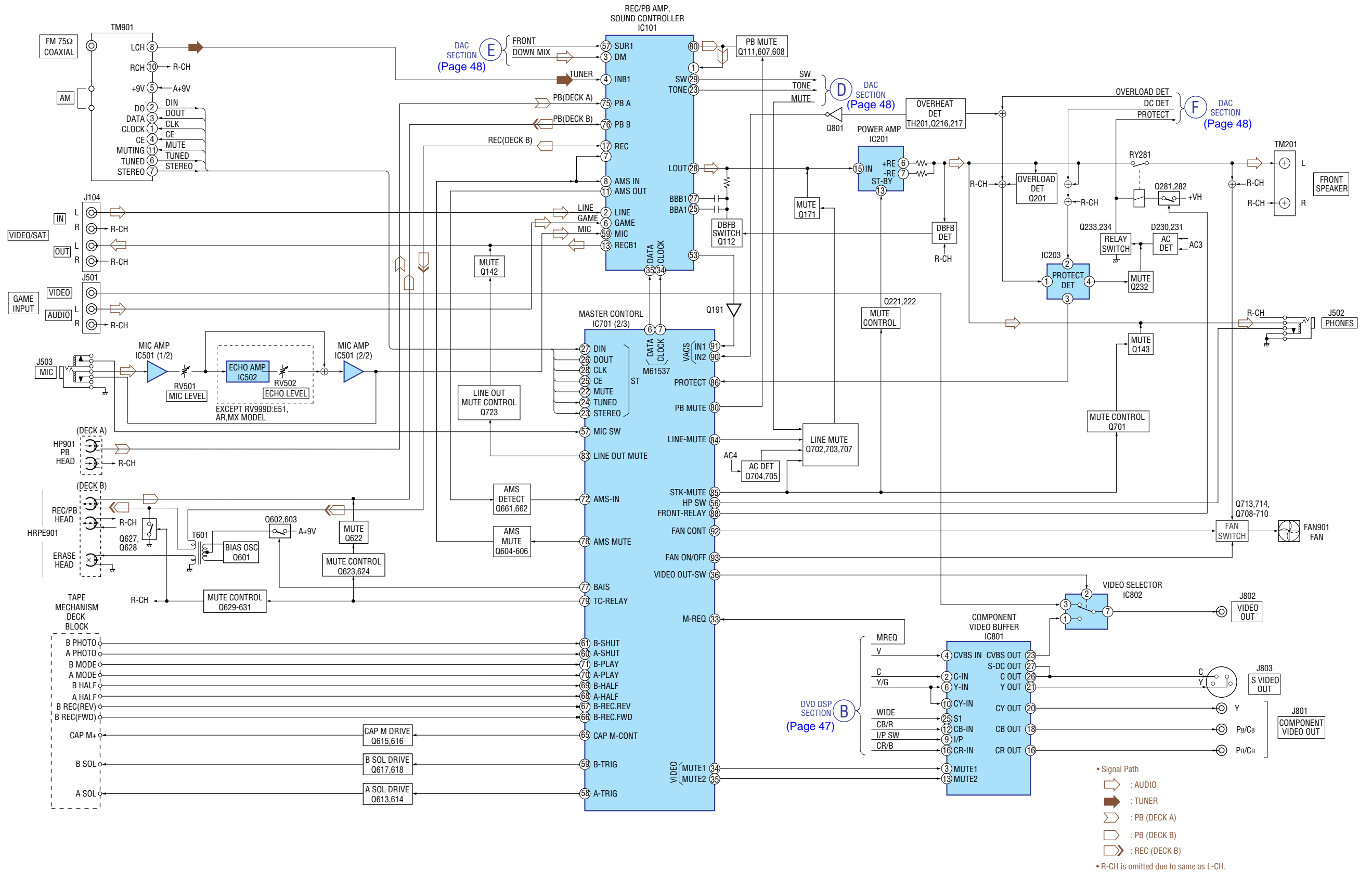
7-2. BLOCK DIAGRAM — DVD DSP SECTION —



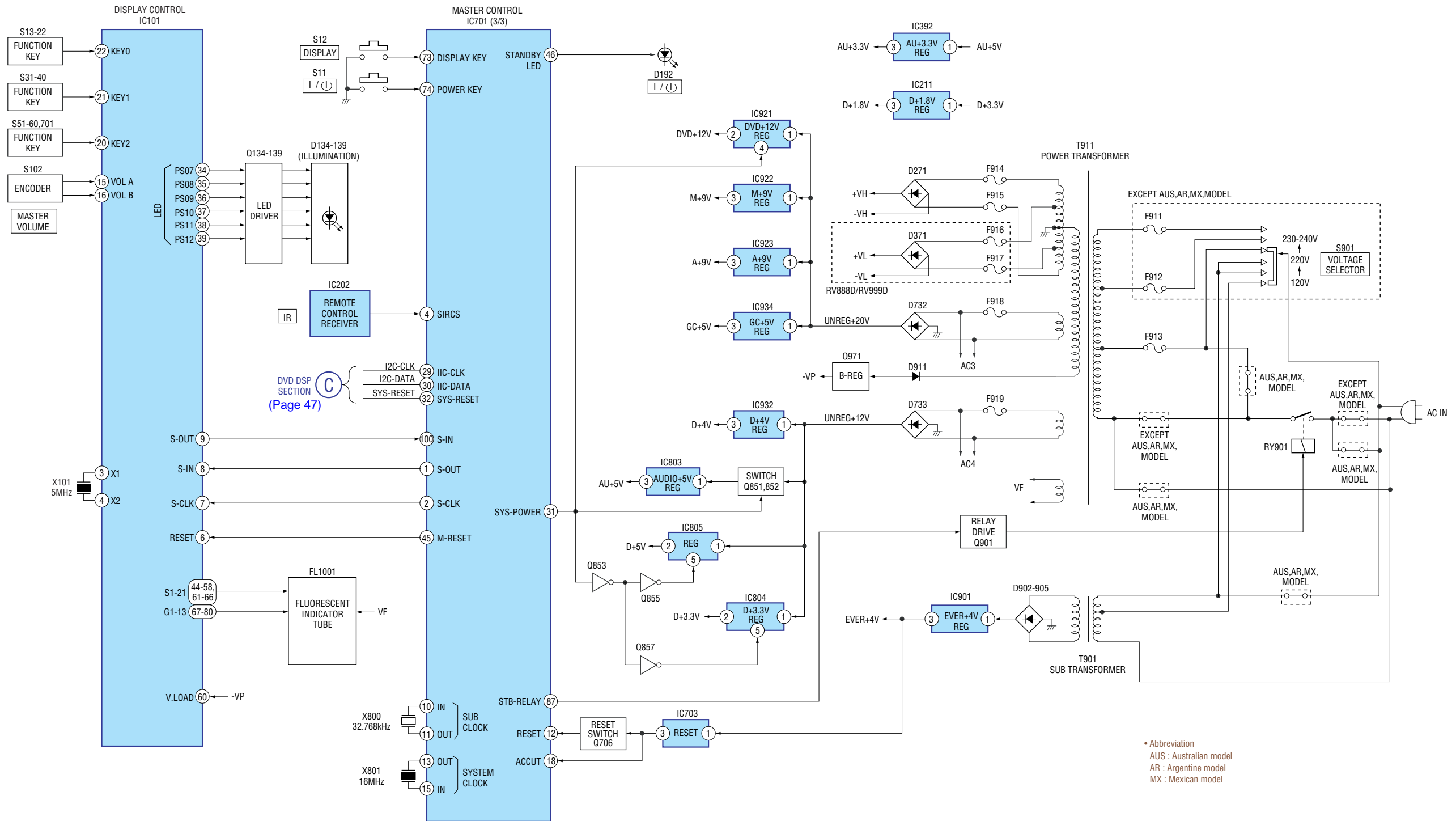
7-3. BLOCK DIAGRAM — DAC SECTION —



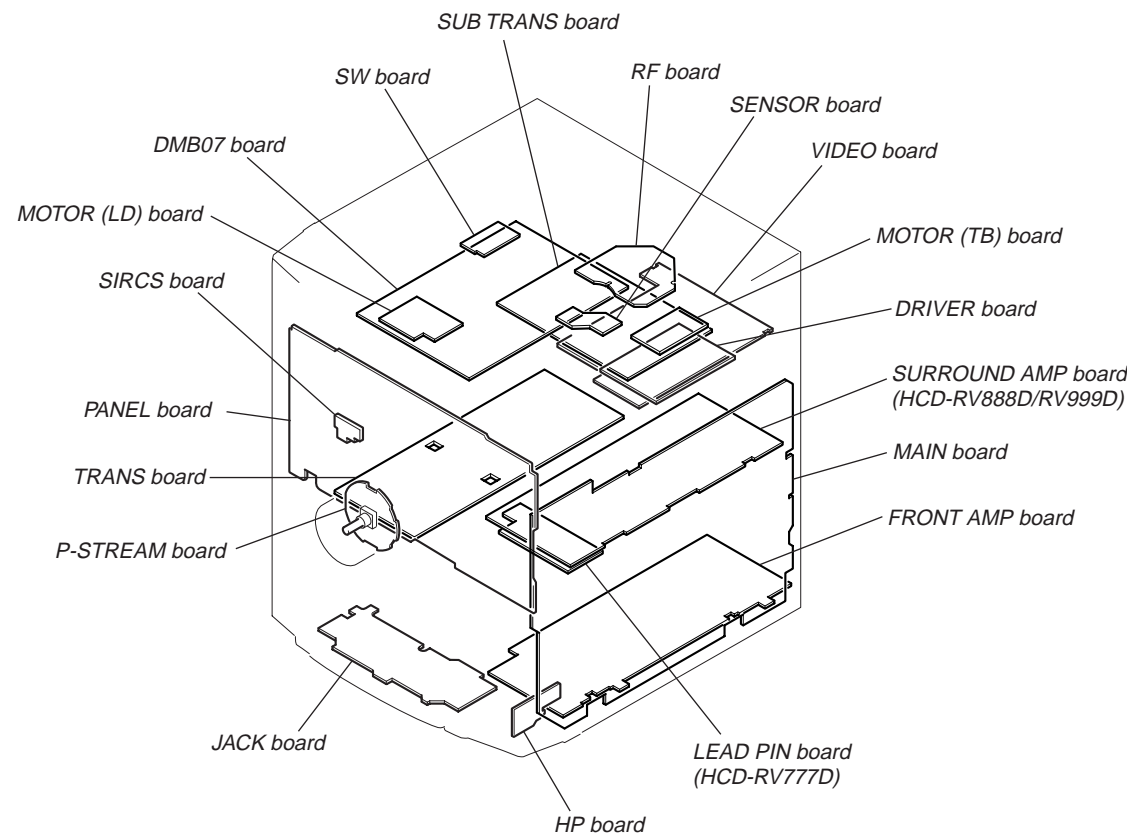
7-4. BLOCK DIAGRAM — MAIN SECTION —



7-5. BLOCK DIAGRAM — DVD SYS SECTION —



7-6. CIRCUIT BOARDS LOCATION



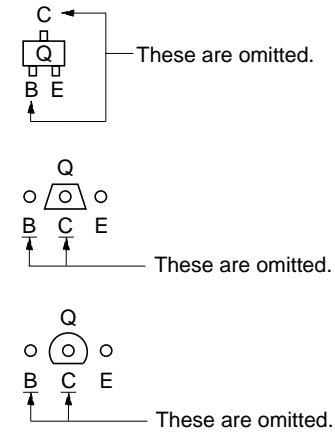
7-7. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note on Printed Wiring Board:

- : parts extracted from the component side.
- : parts extracted from the conductor side.
- : Pattern from the side which enables seeing. (The other layer's 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.

- Indication of transistor.



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)

LF: 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.

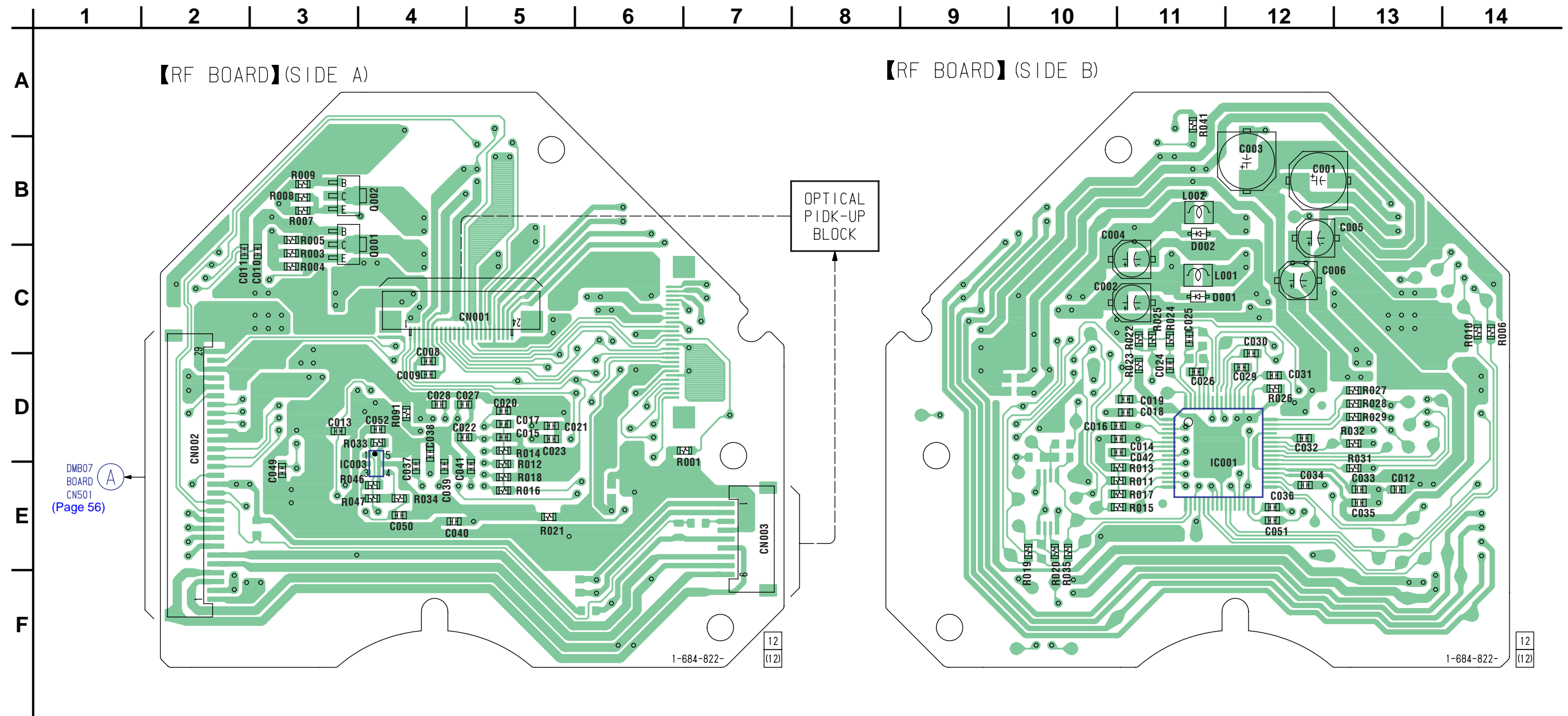
Note on Schematic Diagram:

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

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

- : B+ Line.
- : B- Line.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
 no mark : FM
 * : 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 an oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 □ : AUDIO
 ■ : TUNER
 □ : VIDEO (COMPONENT)
 □ : VIDEO (COMPOSITE)
 □ : TAPE PLAY (DECK A)
 □ : TAPE PLAY (DECK B)
 □ : TAPE REC (DECK B)
 □ : DVD (AUDIO)
 □ : DVD (RF)
 □ : DVD (DIGITAL)
- Abbreviation
 AUS : Australian model
 AR : Argentina model
 MX : Mexican model

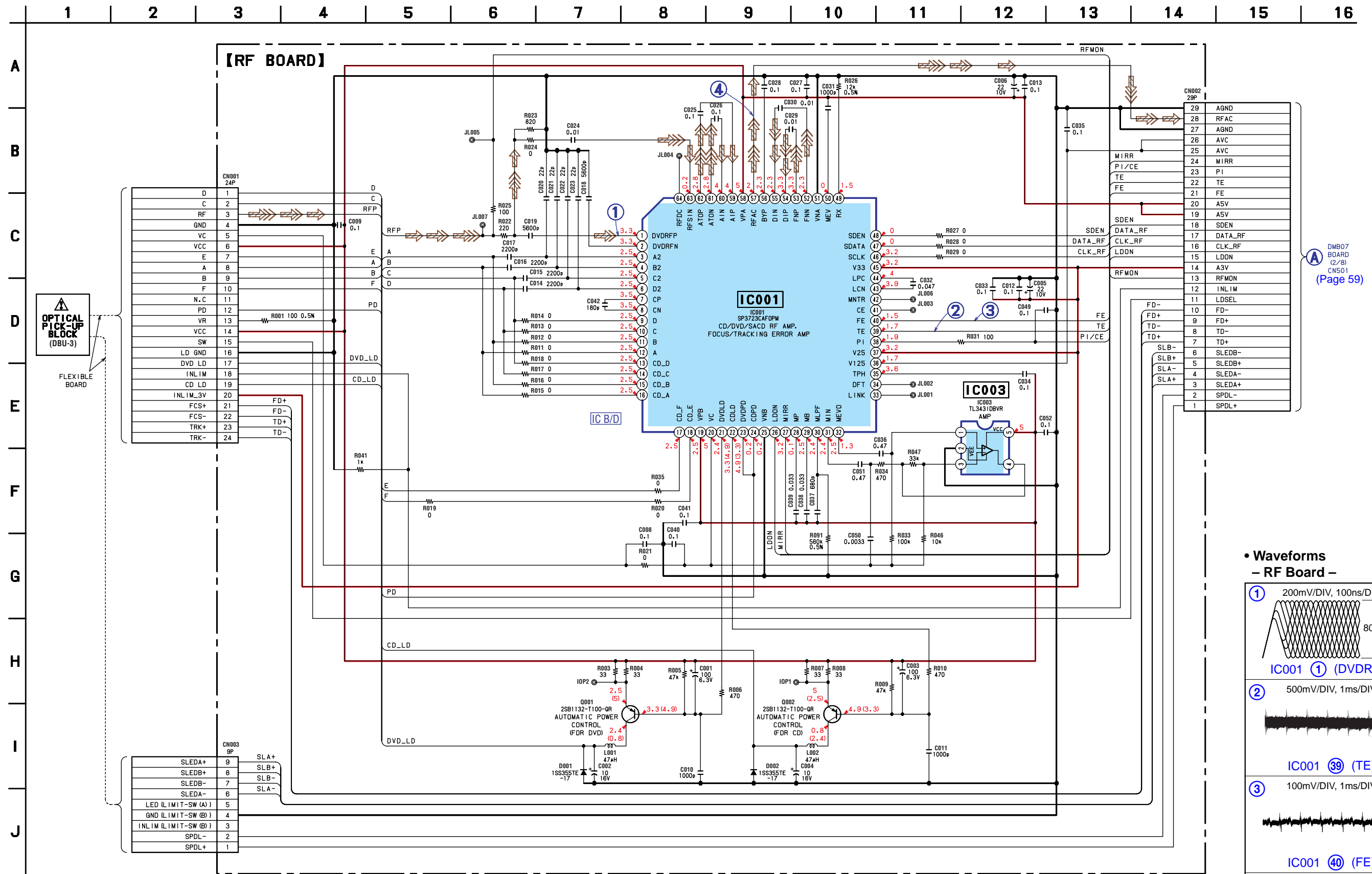
7-8. PRINTED WIRING BOARD — DVD MECHANISM SECTION (1/2) — • Refer to page 51 for Circuit Boards Location.  : Uses unleaded solder.



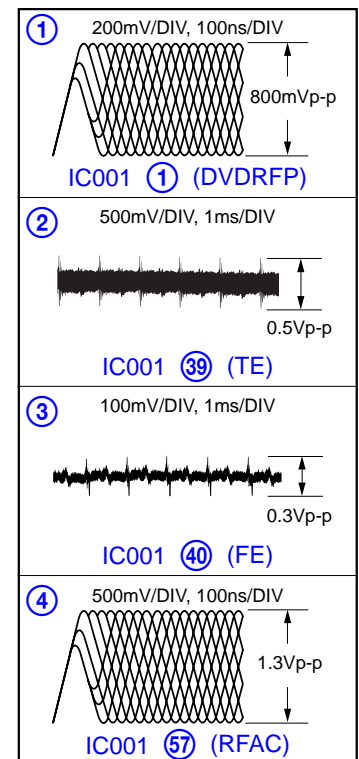
• Semiconductor Location

Ref. No.	Location
D001	C-11
D002	B-11
IC001	E-11
IC003	E-4
Q001	B-4
Q002	B-4

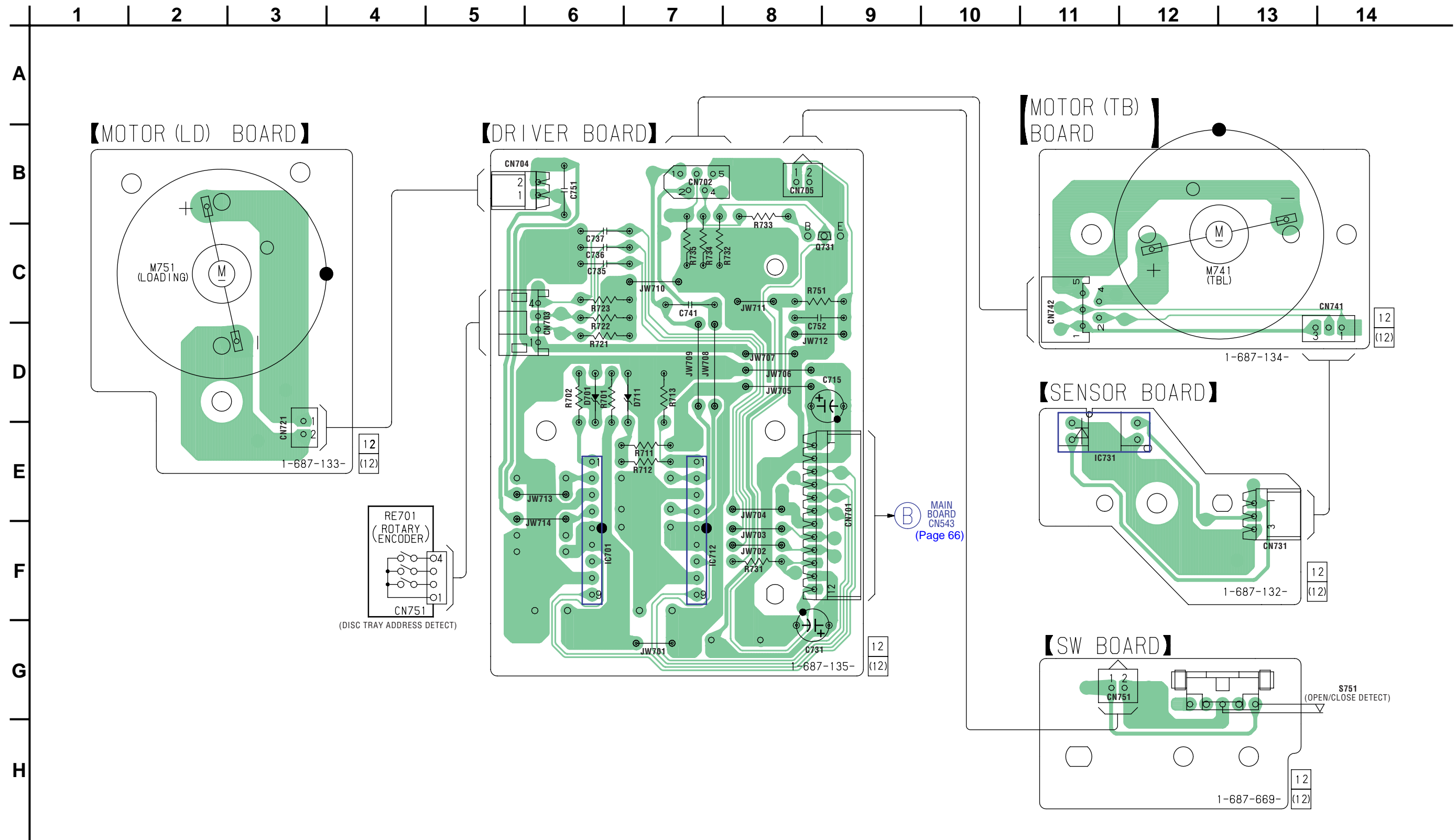
7-9. SCHEMATIC DIAGRAM — DVD MECHANISM SECTION (1/2) — • Refer to page 84 for IC Block Diagram.



• Waveforms
- RF Board -



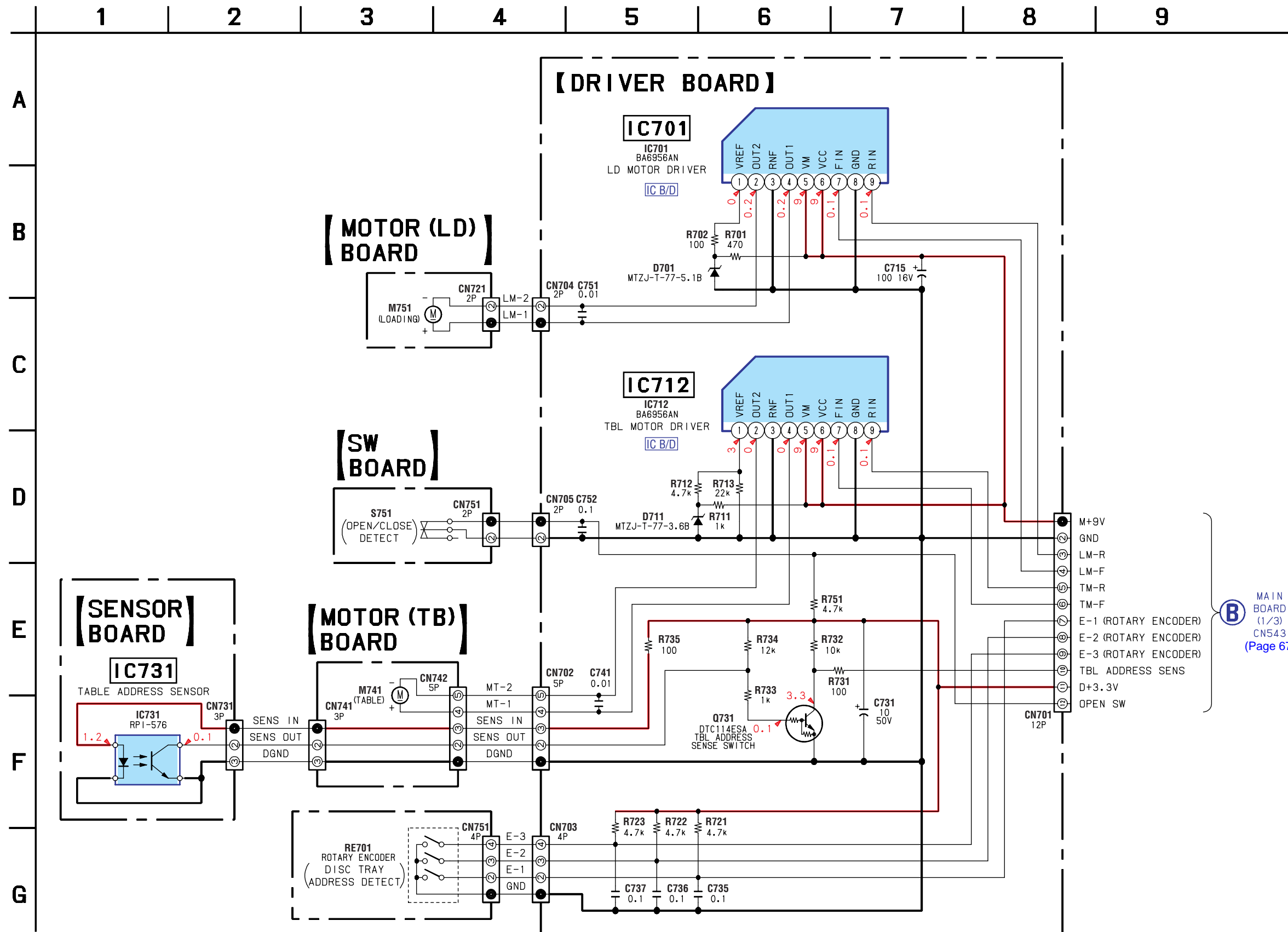
7-10. PRINTED WIRING BOARDS — DVD MECHANISM SECTION (2/2) — • Refer to page 51 for Circuit Boards Location.  : Uses unleaded solder.



• Semiconductor Location

Ref. No.	Location
D701	D-6
D711	D-7
IC701	F-6
IC712	F-7
IC731	E-11
Q731	C-9

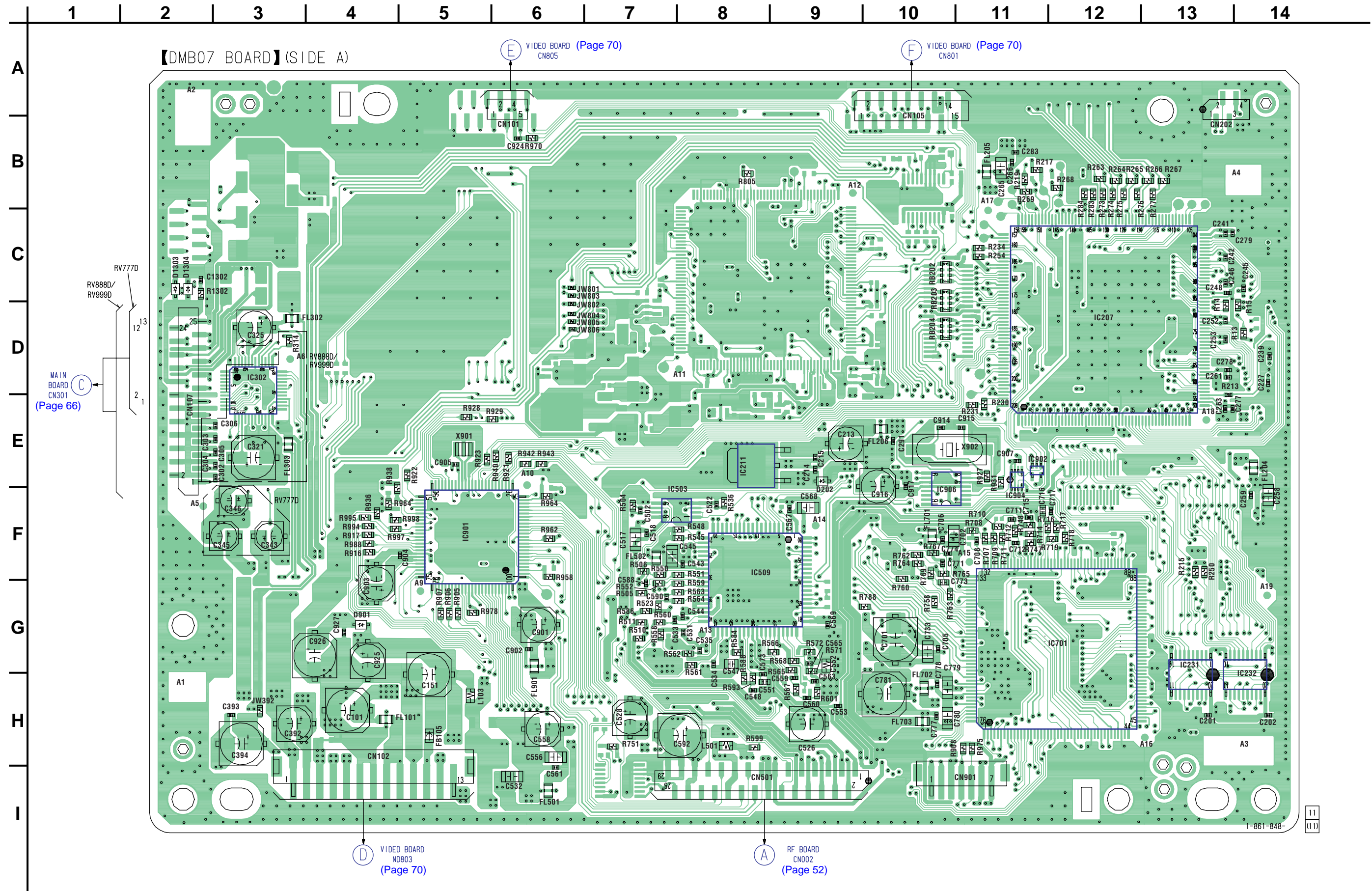
7-11. SCHEMATIC DIAGRAM — DVD MECHANISM SECTION (2/2) — • Refer to page 84 for IC Block Diagrams.



B MAIN BOARD (1/3) CN543 (Page 67)

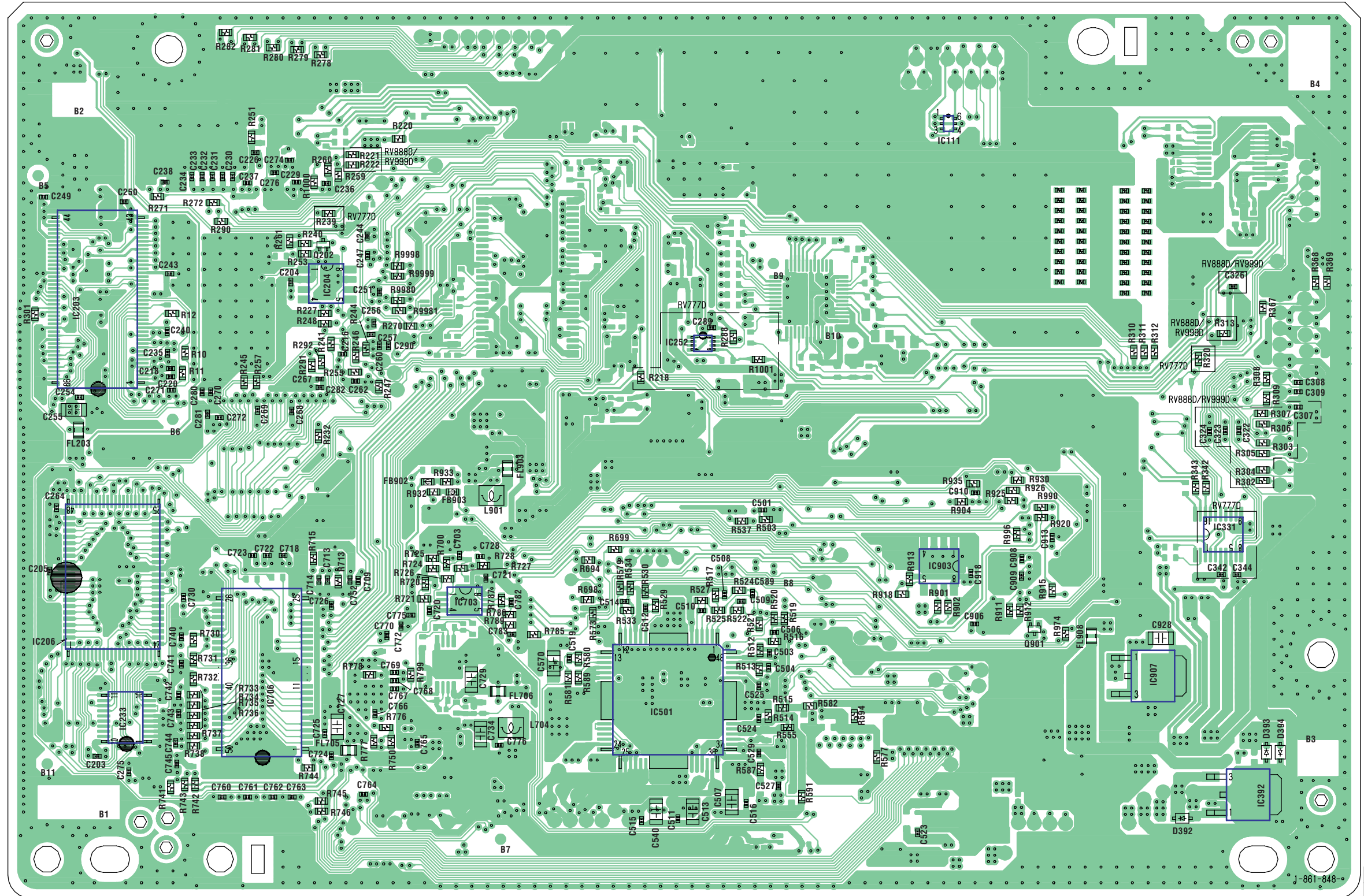
• Refer to page 51 for Circuit Boards Location.

7-12. PRINTED WIRING BOARD — DMB07 SECTION — • Refer to page 58 for Semiconductor Location.  : Uses unleaded solder.



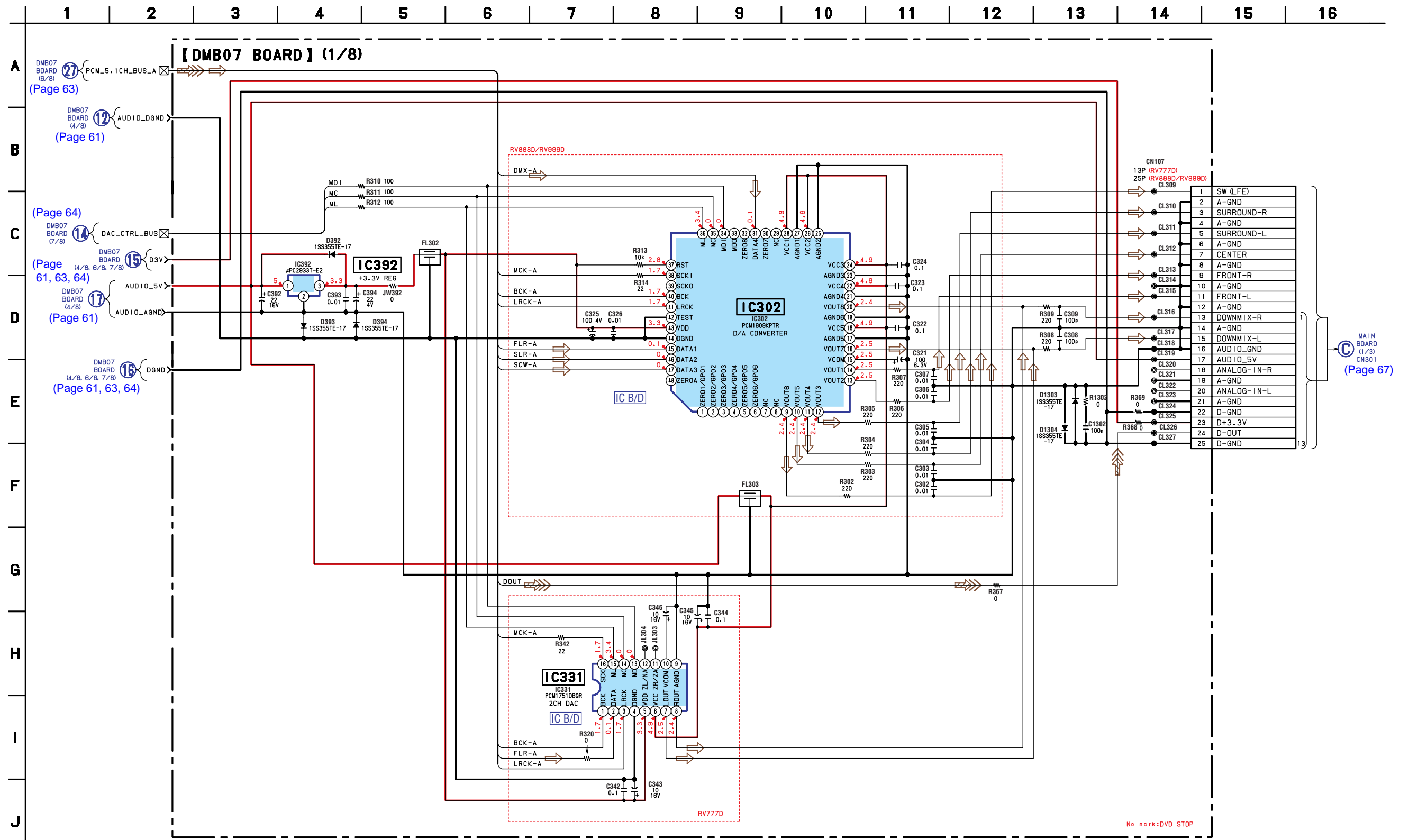
14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

【DMB07 BOARD】(SIDE B)



A
B
C
D
E
F
G
H
I
J

7-13. SCHEMATIC DIAGRAM — DMB07 SECTION (1/8) — • Refer to page 84 for IC Block Diagrams.

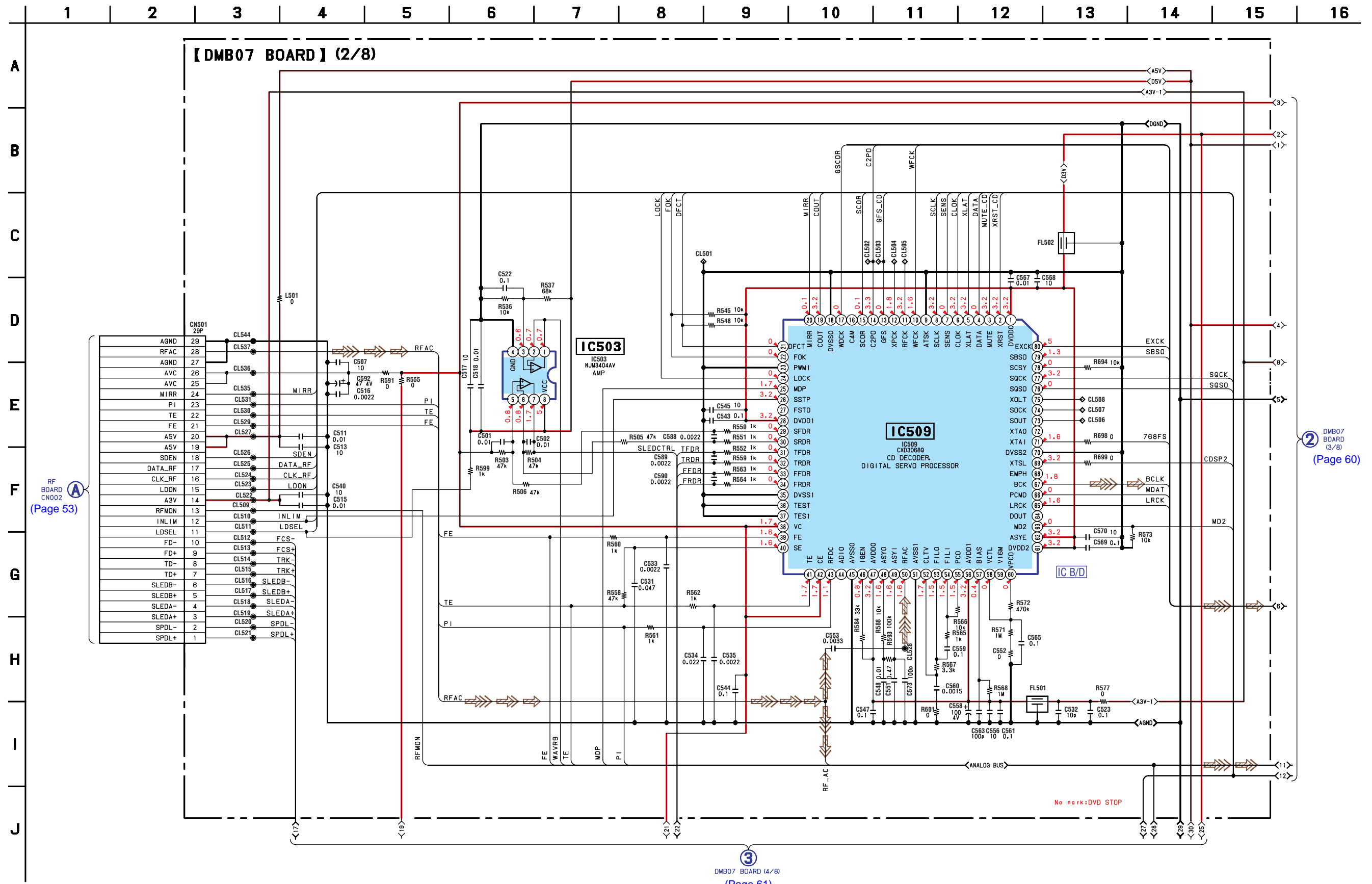


• Semiconductor Location

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D202	E-9	(IC111)	B-6	IC232	H-14	IC503	F-8	(IC903)	F-6
(D392)	H-3	(IC203)	D-14	(IC233)	G-13	IC509	F-8	IC904	E-11
(D393)	H-3	(IC204)	D-11	(IC252)	D-8	IC701	G-12	IC906	F-10
(D394)	H-3	(IC206)	G-14	IC302	D-3	(IC703)	F-10	(IC907)	G-4
D901	G-4	IC207	D-12	(IC331)	F-3	(IC706)	G-12		
D1303	C-2	IC211	E-8	(IC392)	H-3	IC901	F-5	(Q202)	C-11
D1304	C-2	IC231	G-13	(IC501)	G-8	IC902	E-11	(Q901)	G-5

() : SIDE B

7-14. SCHEMATIC DIAGRAM — DMB07 SECTION (2/8) — • Refer to page 84 for IC Block Diagram.

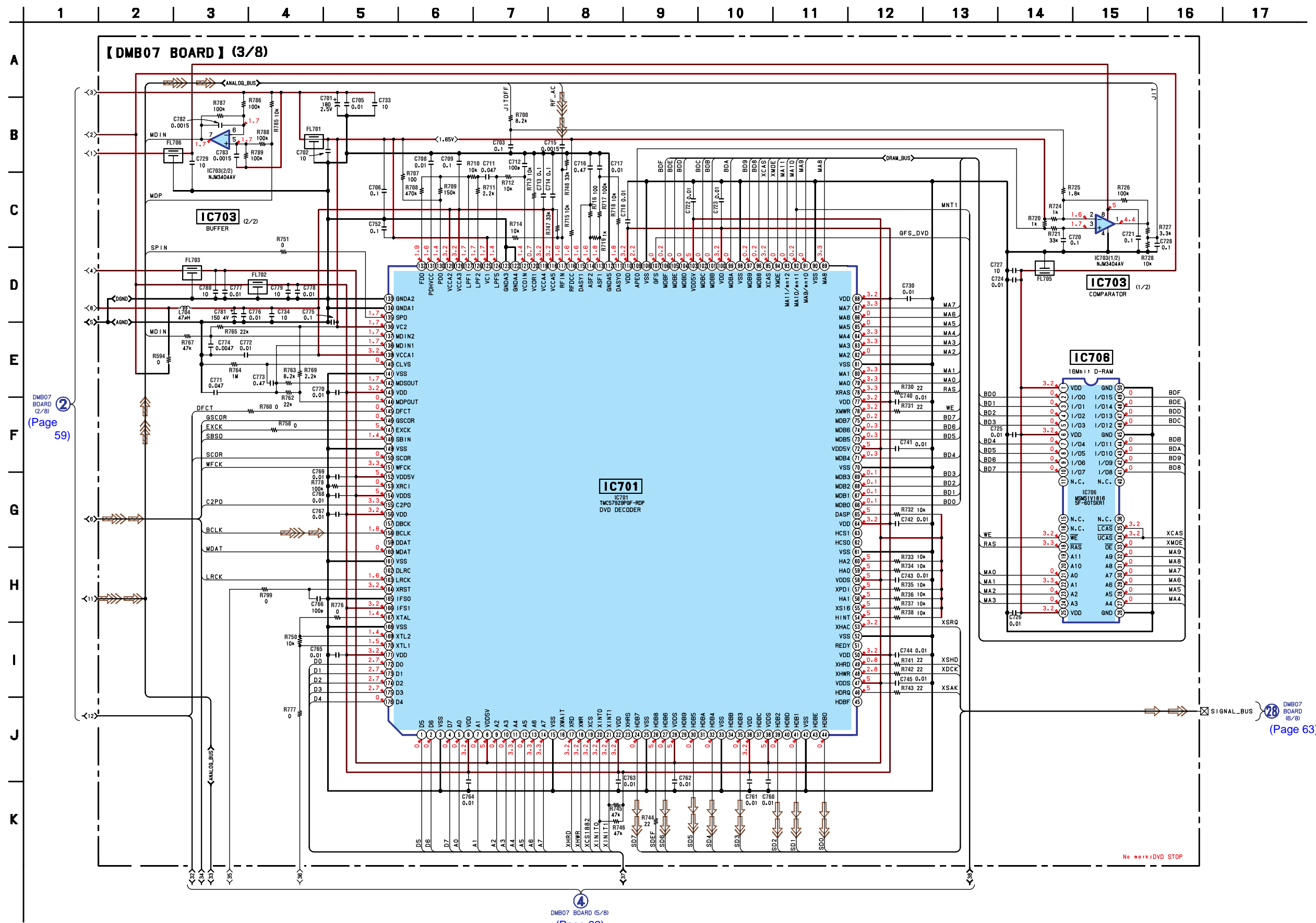


RF BOARD CNO02 (Page 53)

DMB07 BOARD (3/8) (Page 60)

DMB07 BOARD (4/8) (Page 61)

7-15. SCHEMATIC DIAGRAM — DMB07 SECTION (3/8) —

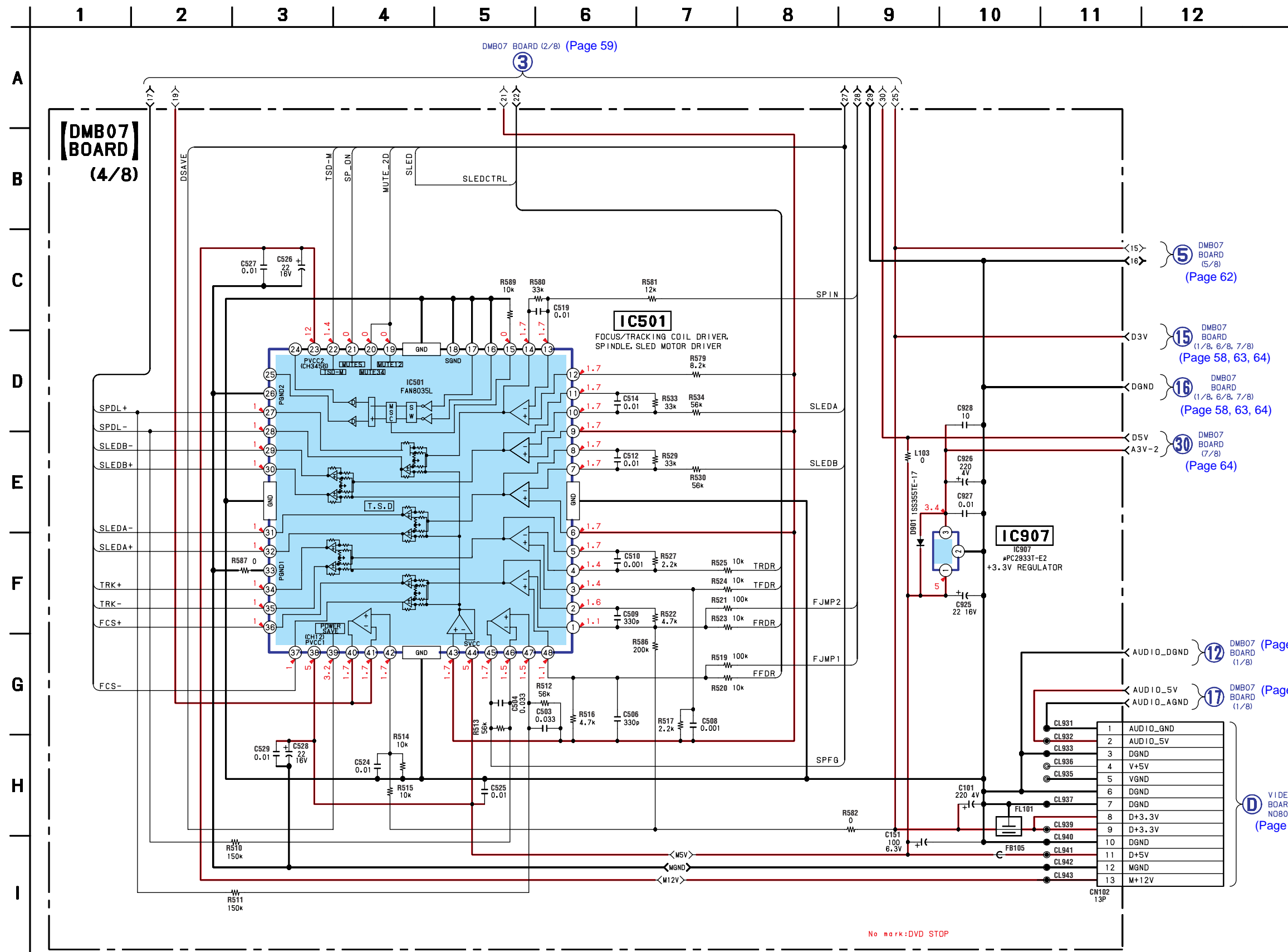


DMB07 BOARD (2/8) (Page 59)

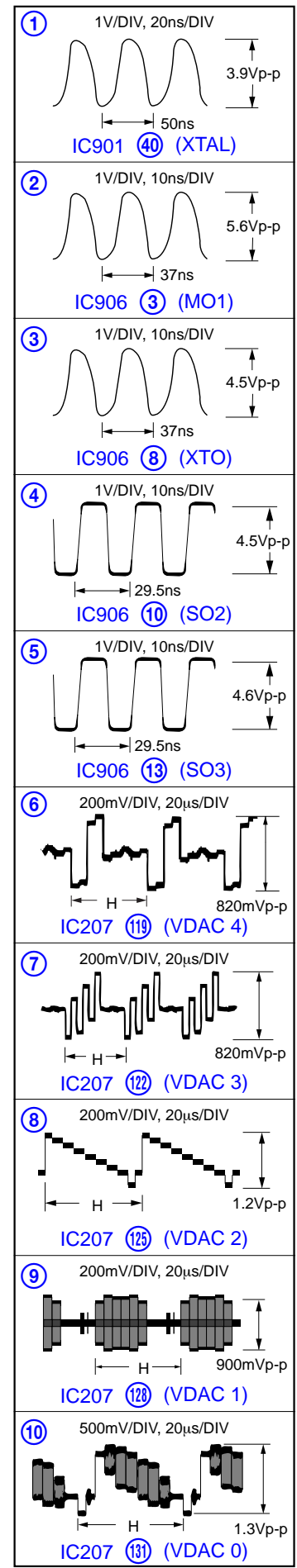
DMB07 BOARD (6/8) (Page 63)

DMB07 BOARD (5/8) (Page 62)

7-16. SCHEMATIC DIAGRAM — DMB07 SECTION (4/8) —

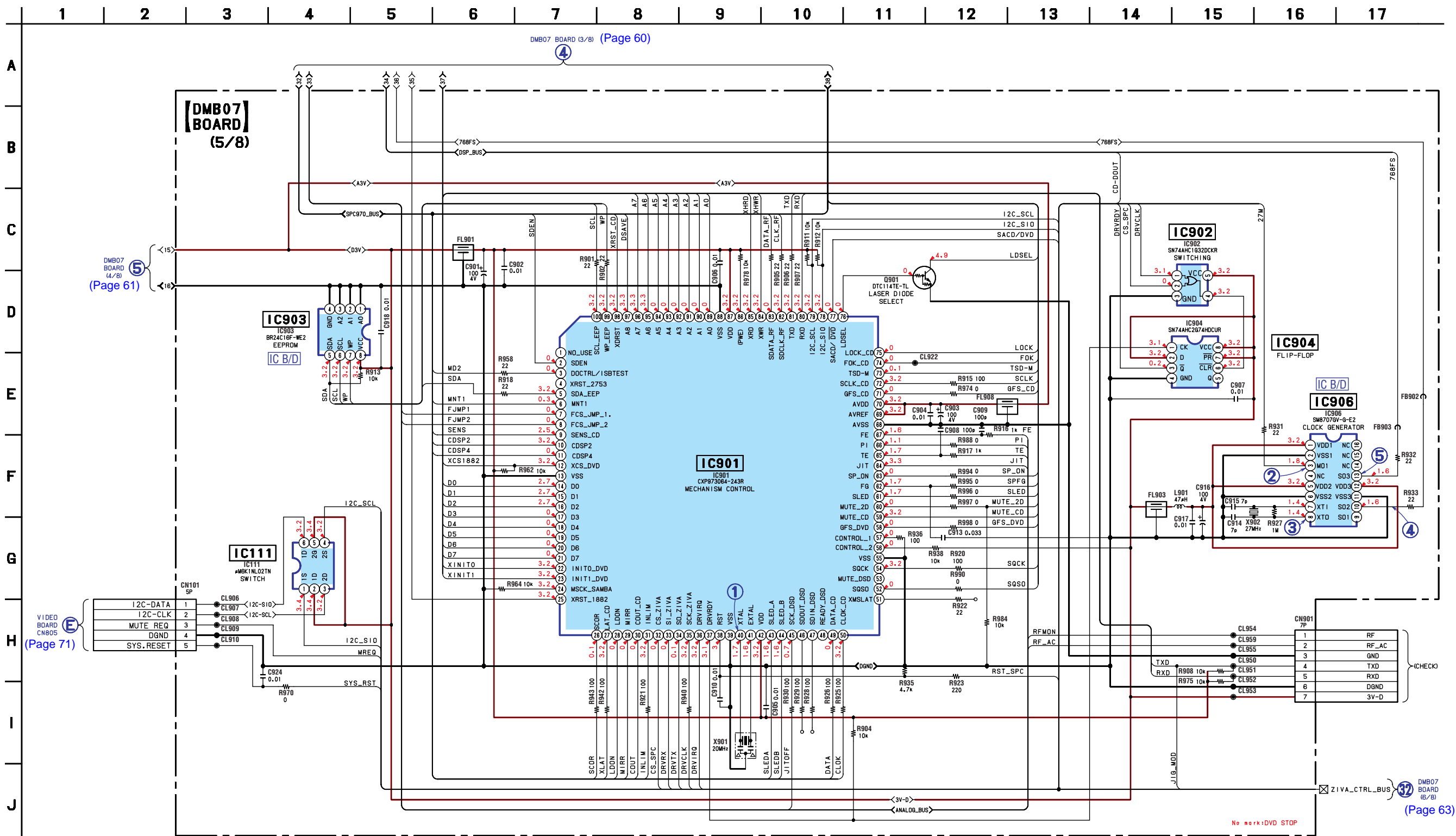


• Waveforms
— DMB07 Board —

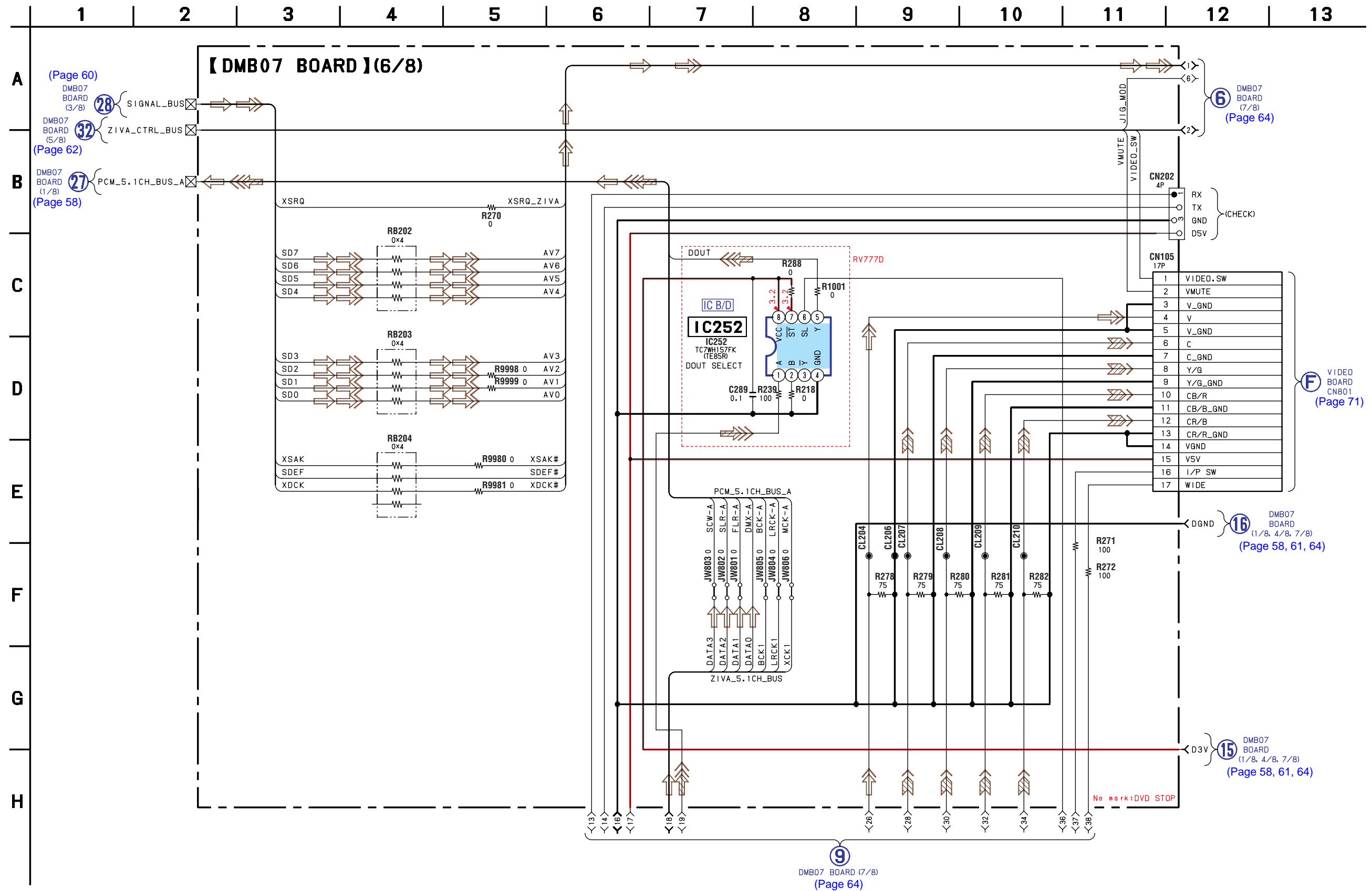


• Refer to page 61 for Waveforms.

7-17. SCHEMATIC DIAGRAM — DMB07 SECTION (5/8) — • Refer to page 85 for IC Block Diagrams.

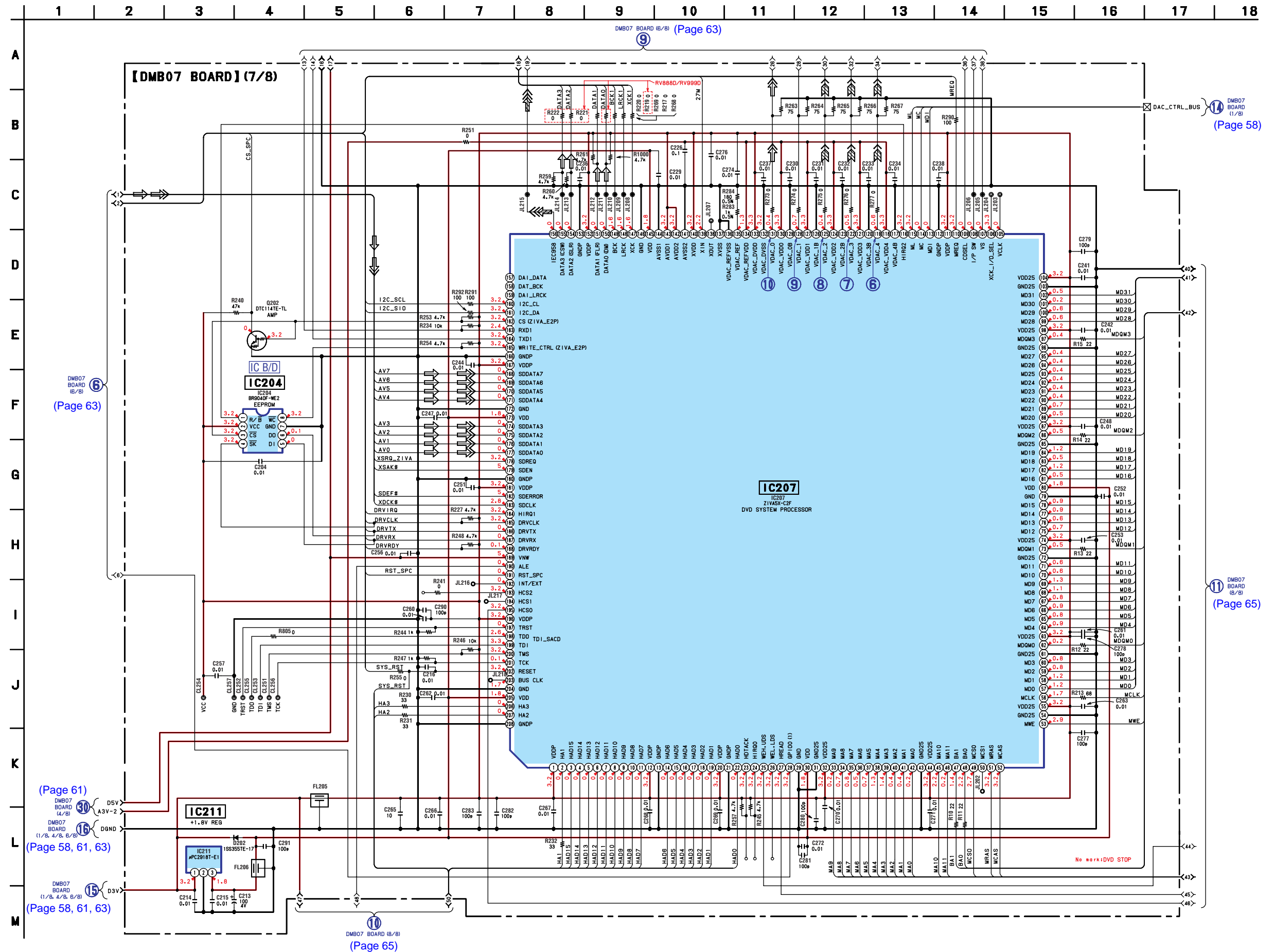


7-18. SCHEMATIC DIAGRAM — DMB07 SECTION (6/8) — • Refer to page 86 for IC Block Diagram.

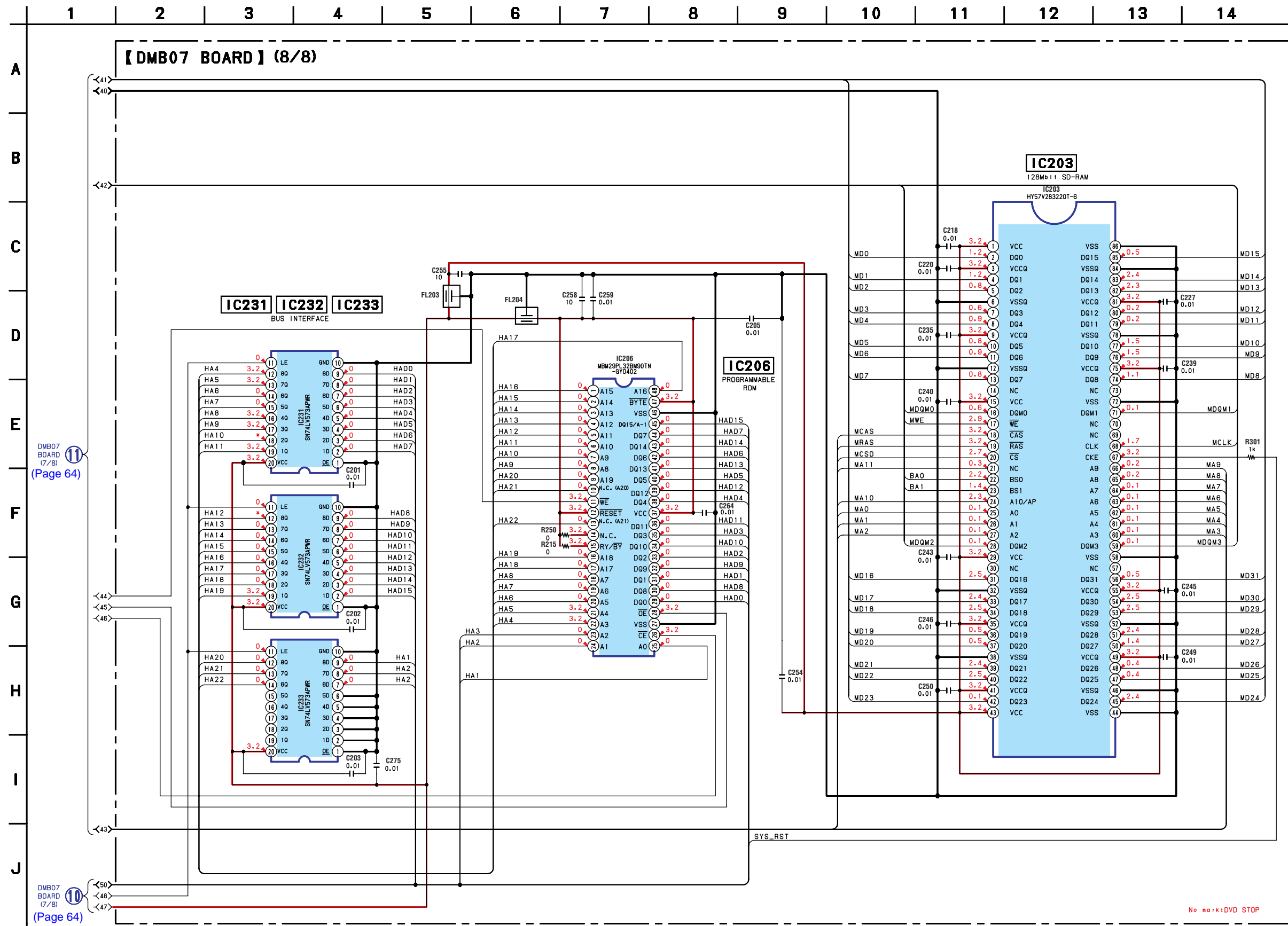


• Refer to page 61 for Waveforms.

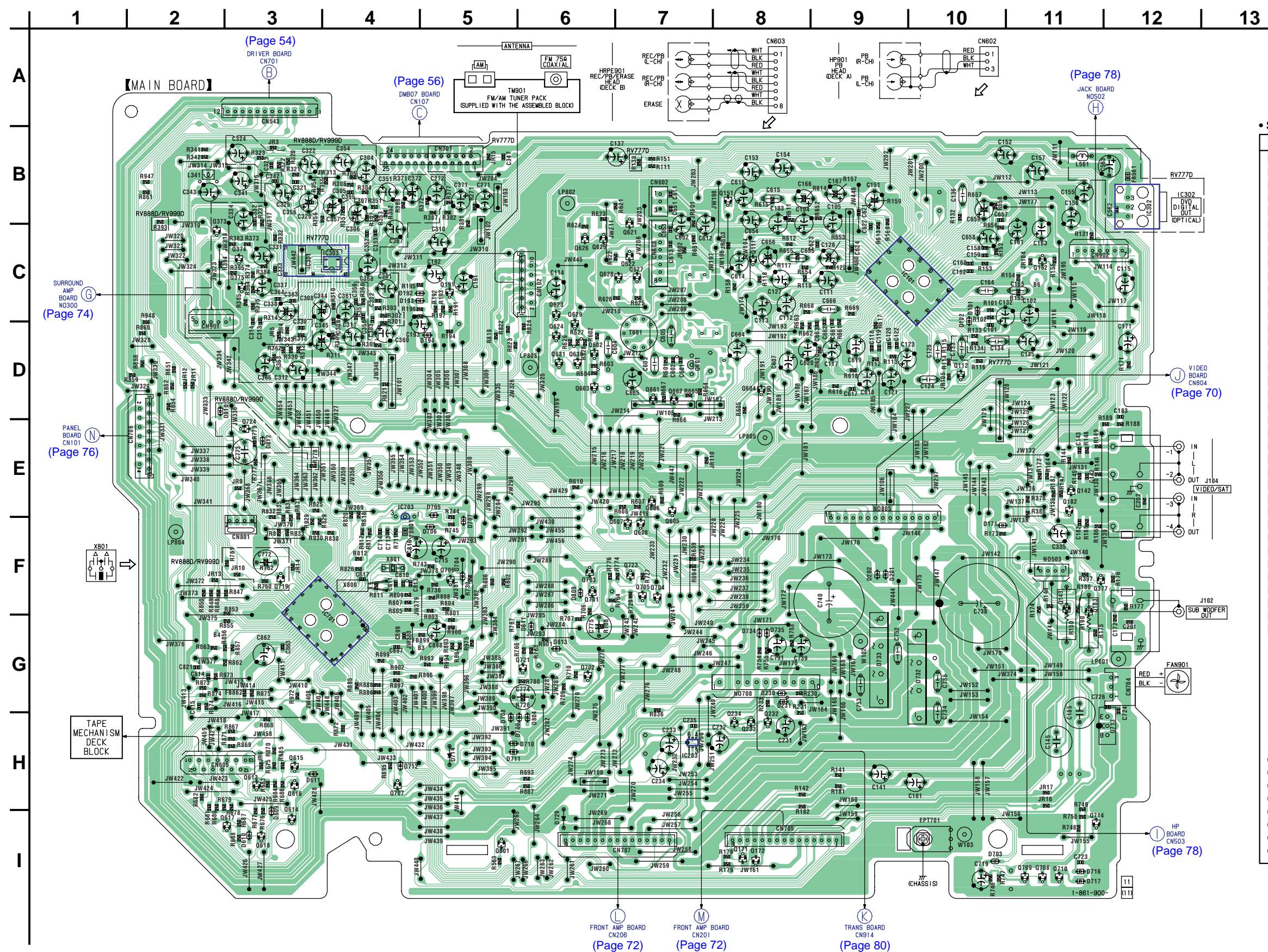
7-19. SCHEMATIC DIAGRAM — DMB07 SECTION (7/8) — • Refer to page 86 for IC Block Diagram.



7-20. SCHEMATIC DIAGRAM — DMB07 SECTION (8/8) —



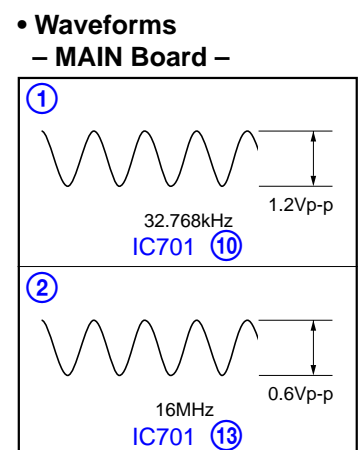
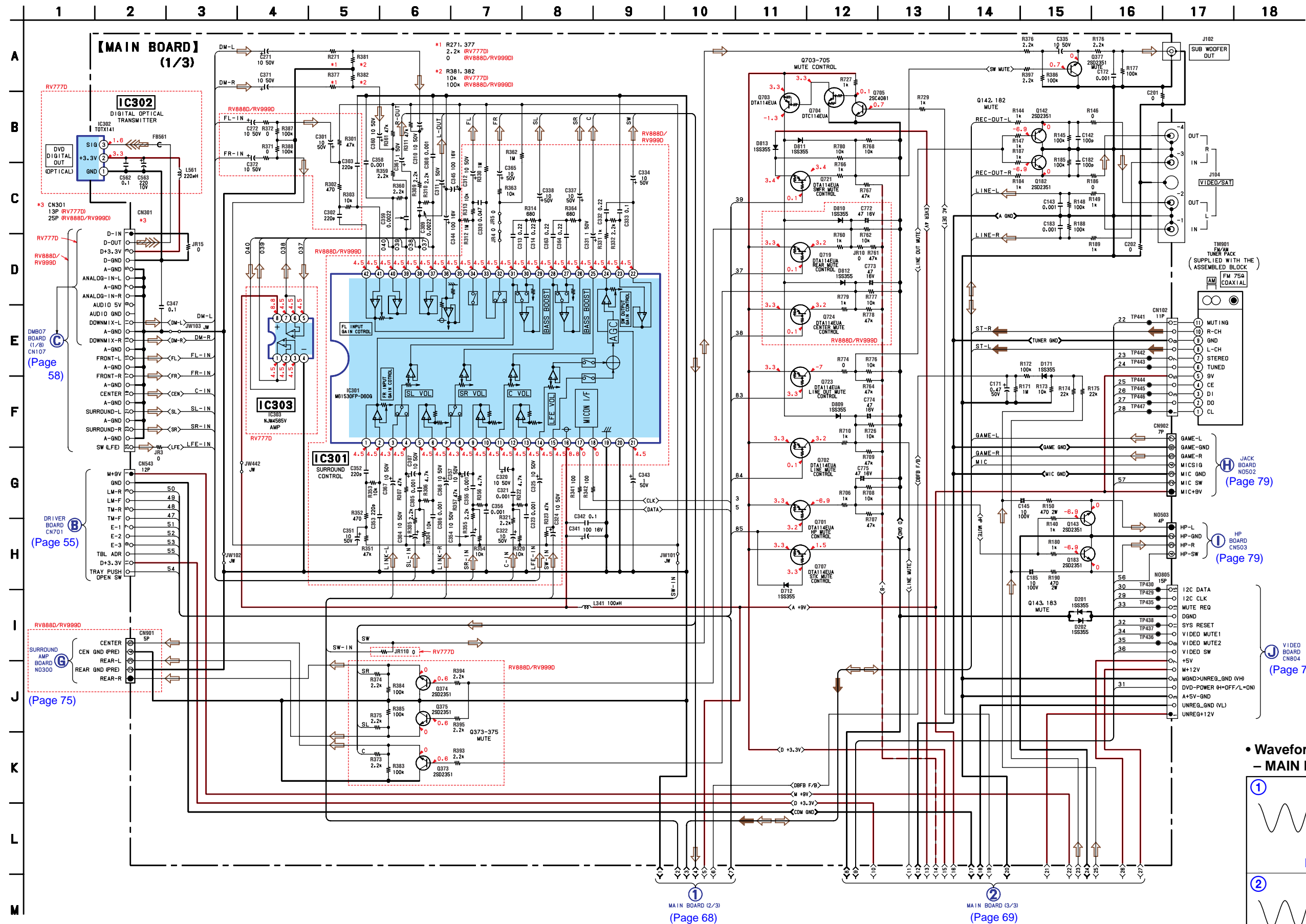
7-21. PRINTED WIRING BOARD — MAIN SECTION — • Refer to page 51 for Circuit Boards Location.  : Uses unleaded solder.



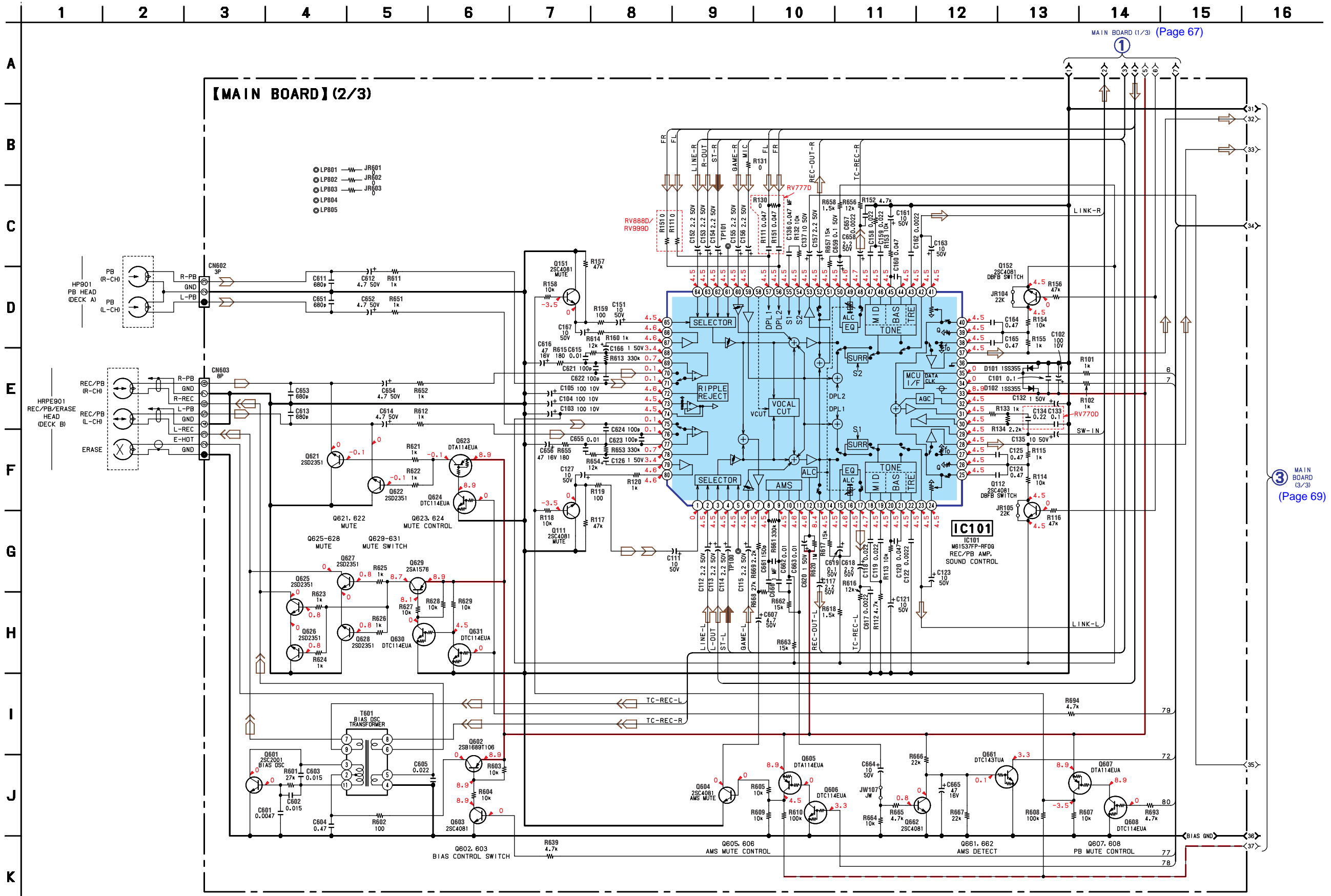
• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D101	C-10	Q182	E-11
D102	C-10	Q183	F-11
D171	F-10	Q191	C-5
D192	C-4	Q232	H-8
D193	C-4	Q233	H-8
D194	D-5	Q234	H-8
D201	F-9	Q373	C-2
D202	F-9	Q374	C-3
D230	G-8	Q375	C-3
D231	G-8	Q377	F-11
D609	I-3	Q601	D-7
D610	I-3	Q602	D-6
D611	H-3	Q603	D-6
D703	I-10	Q604	D-8
D704	F-5	Q605	E-7
D705	E-5	Q606	E-7
D706	F-5	Q607	F-7
D707	F-5	Q608	F-7
D708	H-5	Q613	H-3
D709	H-6	Q614	I-3
D710	H-6	Q615	H-3
D711	H-5	Q616	H-3
D712	H-4	Q617	I-3
D714	H-5	Q618	I-3
D716	I-11	Q621	C-7
D717	I-11	Q622	C-7
D729	I-6	Q623	C-6
D732	G-9	Q624	D-6
D733	G-9	Q625	C-6
D734	G-8	Q626	C-6
D735	G-8	Q627	C-7
D804	H-6	Q628	C-6
D809	F-6	Q629	C-6
D810	D-2	Q630	D-6
D811	G-6	Q631	D-6
D812	E-3	Q661	D-7
D813	G-6	Q662	D-7
		Q701	F-6
		Q702	G-6
		Q703	F-6
		Q704	F-7
		Q705	F-7
		Q706	F-5
		Q707	H-4
		Q708	I-11
		Q709	I-11
		Q710	I-11
		Q713	H-12
		Q714	I-11
		Q719	F-3
		Q721	G-6
		Q723	F-7
		Q724	E-3
		Q801	I-5

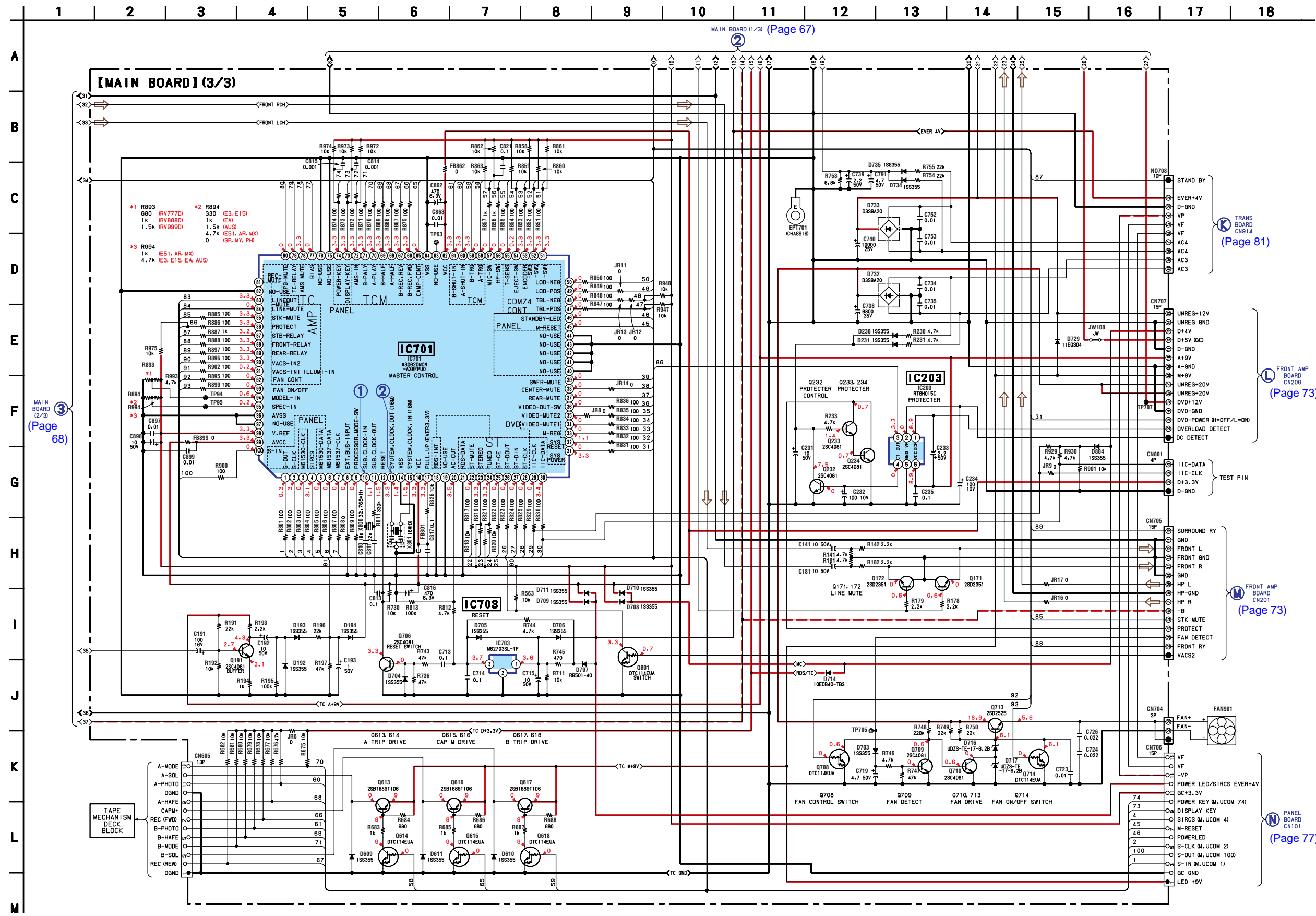
7-22. SCHEMATIC DIAGRAM — MAIN SECTION (1/3) —




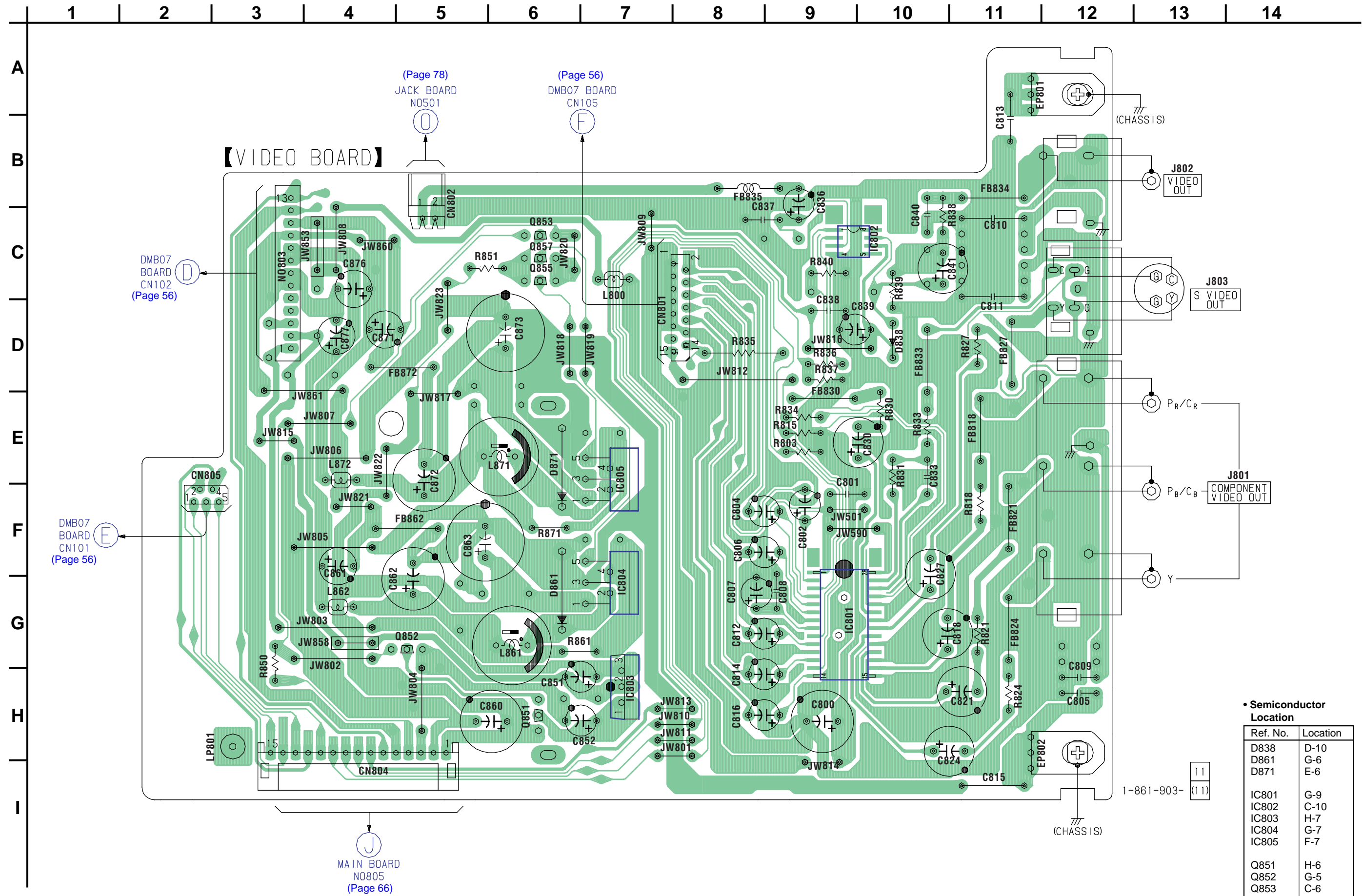
7-23. SCHEMATIC DIAGRAM — MAIN SECTION (2/3) —



7-24. SCHEMATIC DIAGRAM — MAIN SECTION (3/3) — • Refer to page 67 for Waveforms.



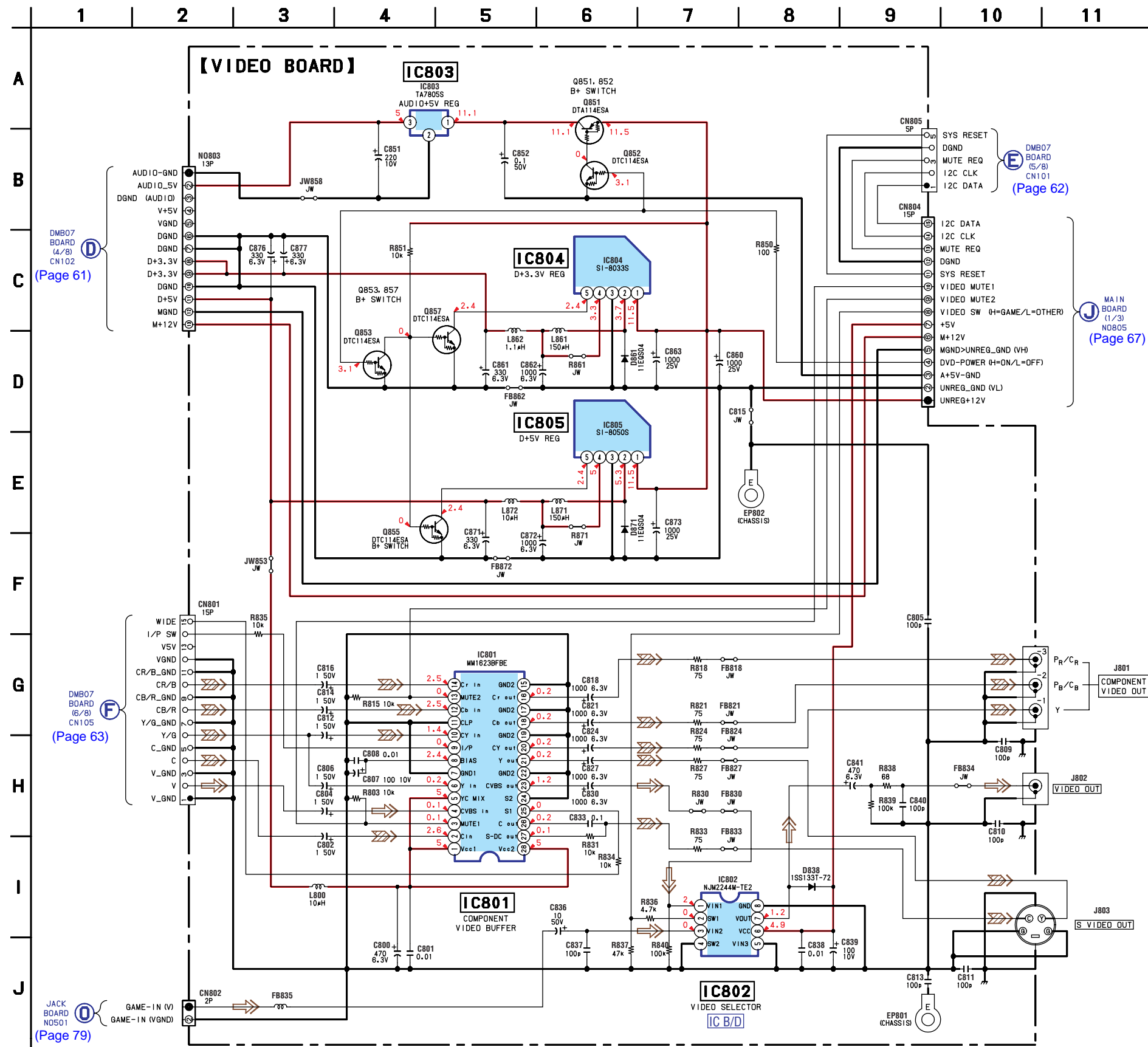
7-25. PRINTED WIRING BOARD — VIDEO SECTION — • Refer to page 51 for Circuit Boards Location.  : Uses unleaded solder.



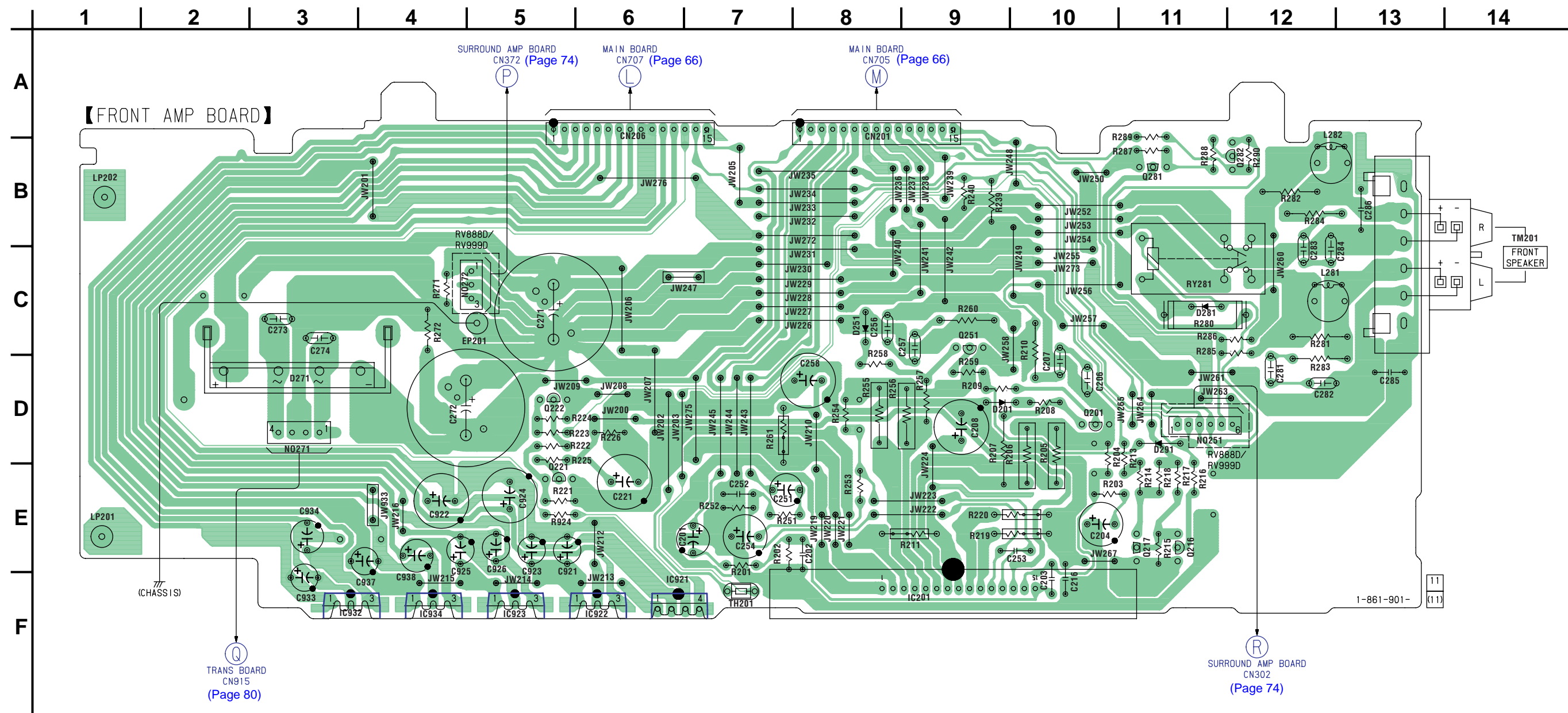
• Semiconductor Location

Ref. No.	Location
D838	D-10
D861	G-6
D871	E-6
IC801	G-9
IC802	C-10
IC803	H-7
IC804	G-7
IC805	F-7
Q851	H-6
Q852	G-5
Q853	C-6
Q855	C-6
Q857	C-6

7-26. SCHEMATIC DIAGRAM — VIDEO SECTION — • Refer to page 86 for IC Block Diagram.



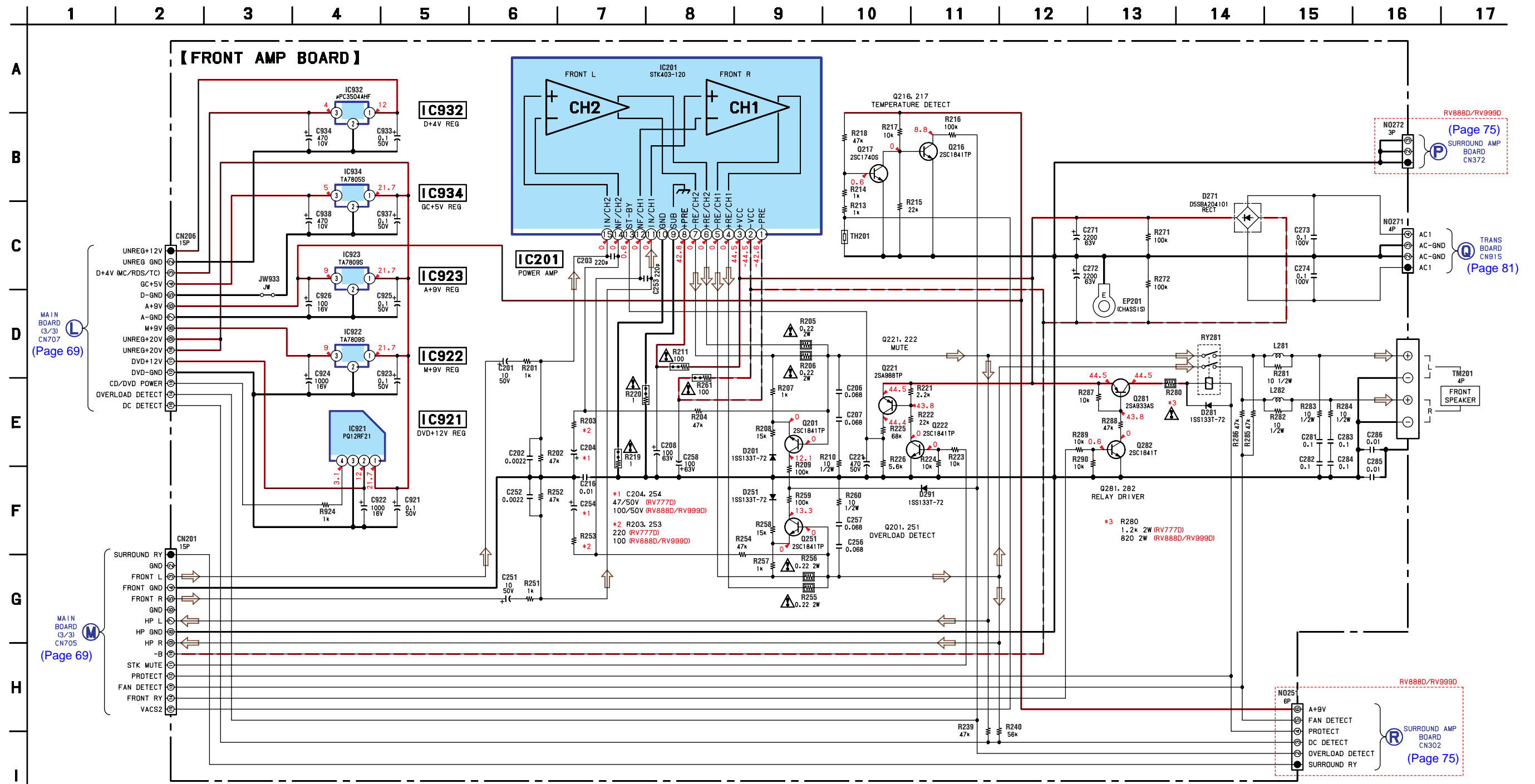
7-27. PRINTED WIRING BOARD — FRONT AMP SECTION — • Refer to page 51 for Circuit Boards Location.  : Uses unleaded solder.



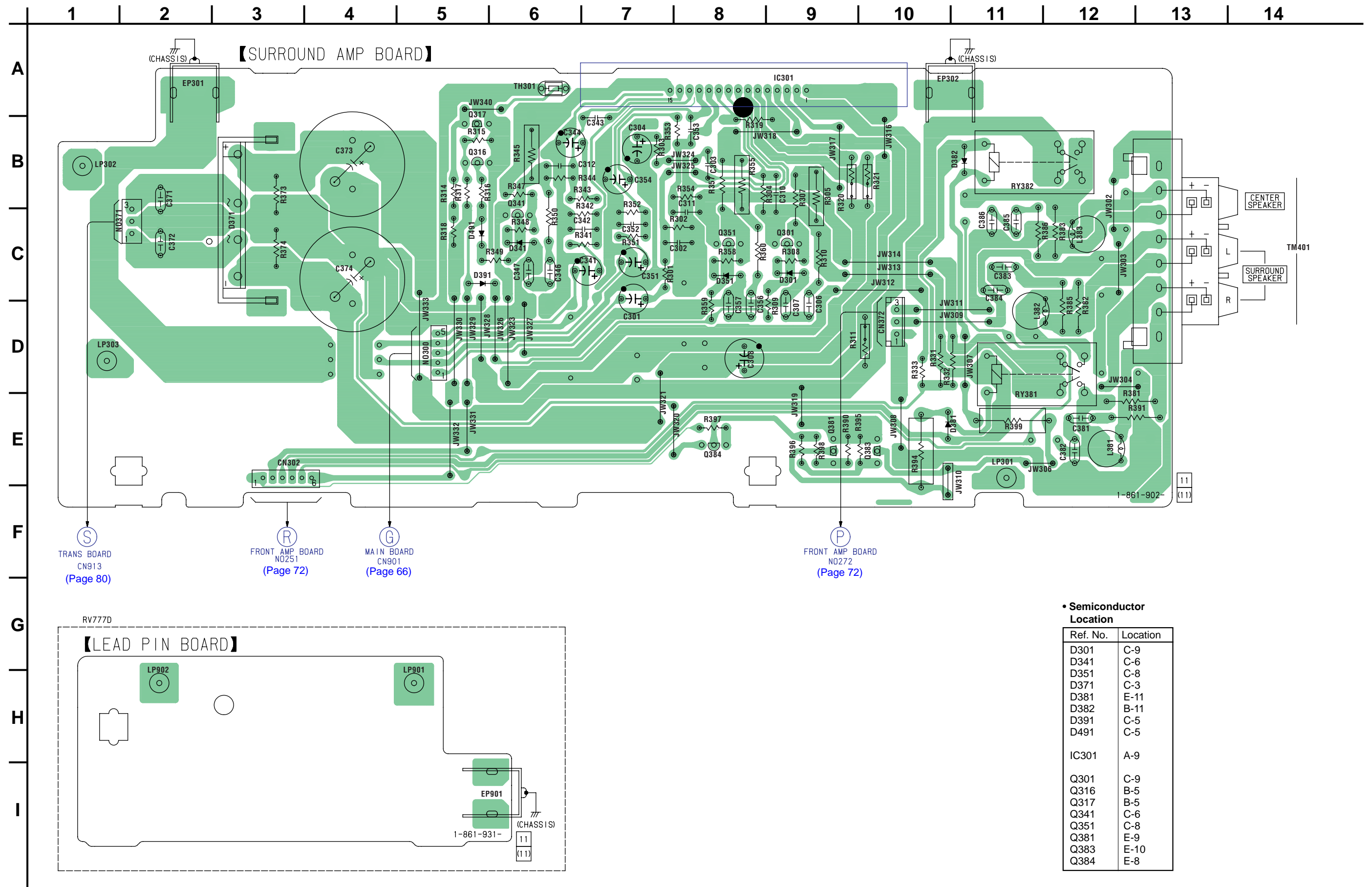
• Semiconductor Location

Ref. No.	Location
D201	D-9
D251	C-8
D271	D-3
D281	C-11
D291	D-11
IC201	F-9
IC921	F-6
IC922	F-6
IC923	F-5
IC932	F-3
IC934	F-4
Q201	D-10
Q216	E-11
Q217	E-11
Q221	E-5
Q222	D-5
Q251	C-9
Q281	B-11
Q282	B-12

7-28. SCHEMATIC DIAGRAM — FRONT AMP SECTION —



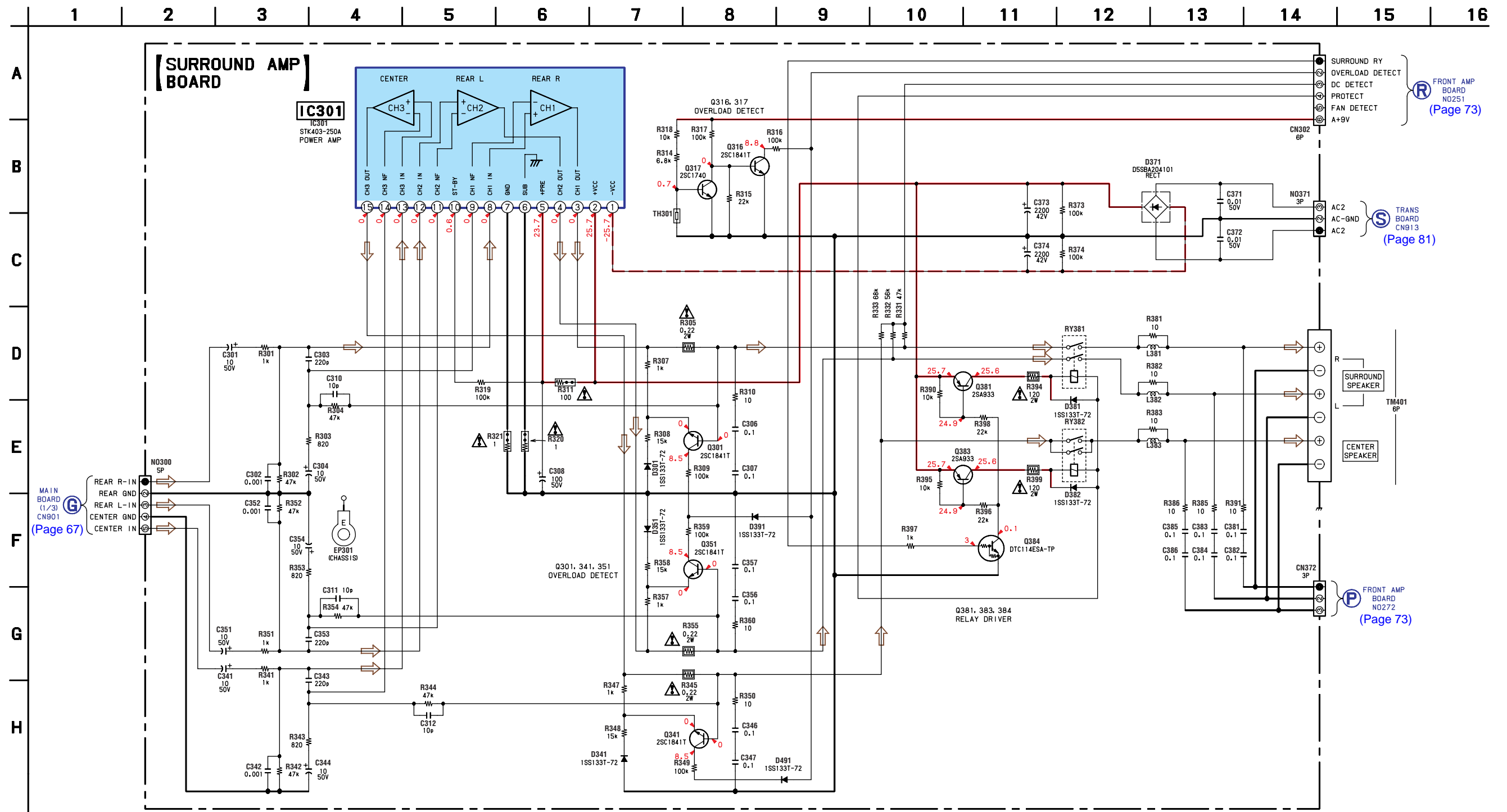
7-29. PRINTED WIRING BOARDS — SURROUND AMP SECTION (HCD-RV888D/RV999D) — • Refer to page 51 for Circuit Boards Location.  : Uses unleaded solder.



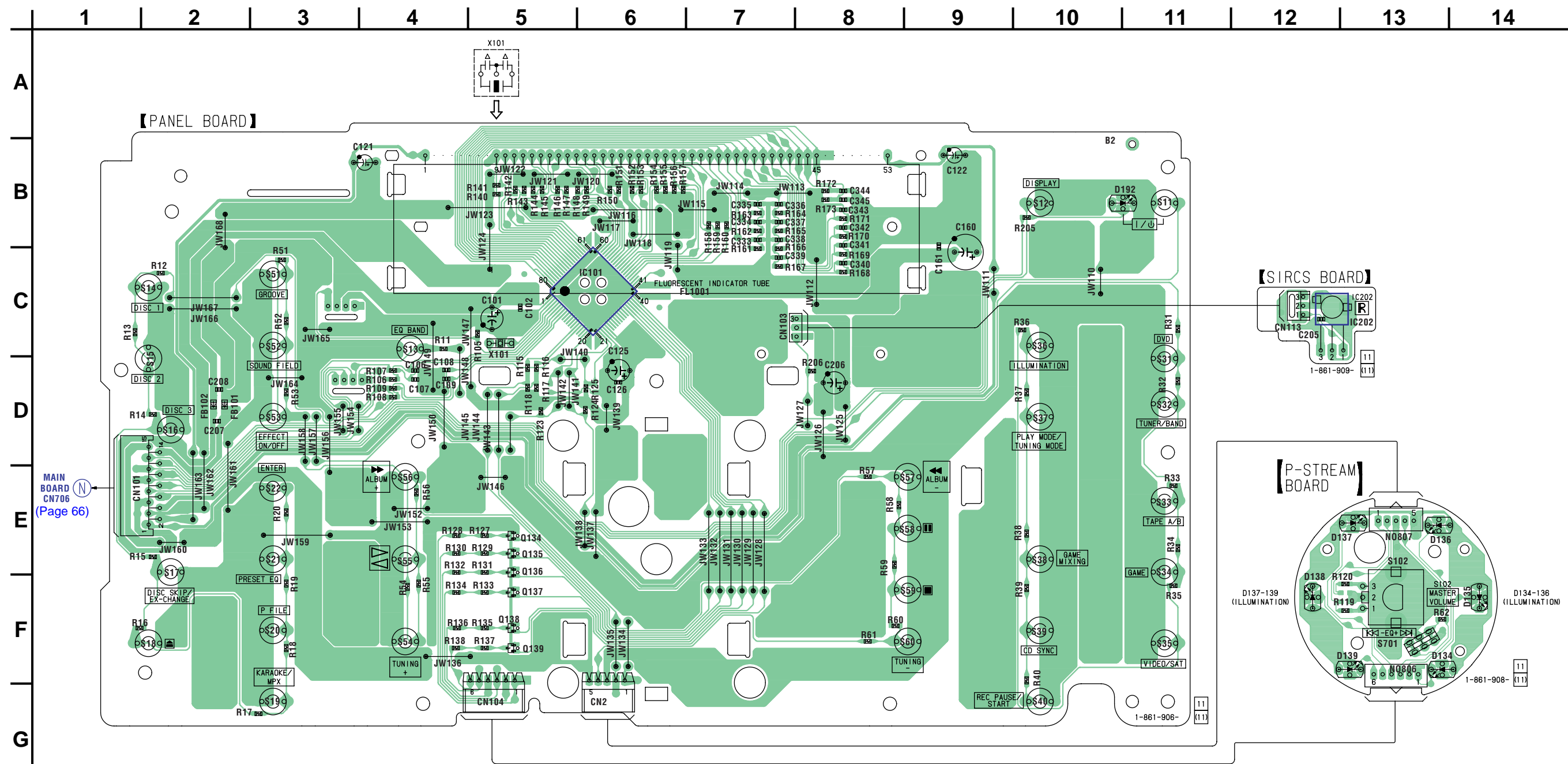
• Semiconductor Location

Ref. No.	Location
D301	C-9
D341	C-6
D351	C-8
D371	C-3
D381	E-11
D382	B-11
D391	C-5
D491	C-5
IC301	A-9
Q301	C-9
Q316	B-5
Q317	B-5
Q341	C-6
Q351	C-8
Q381	E-9
Q383	E-10
Q384	E-8

7-30. SCHEMATIC DIAGRAM — SURROUND AMP SECTION (HCD-RV888D/RV999D) —



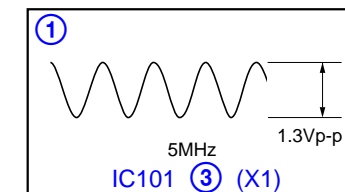
7-31. PRINTED WIRING BOARDS — PANEL SECTION — • Refer to page 51 for Circuit Boards Location.  : Uses unleaded solder.



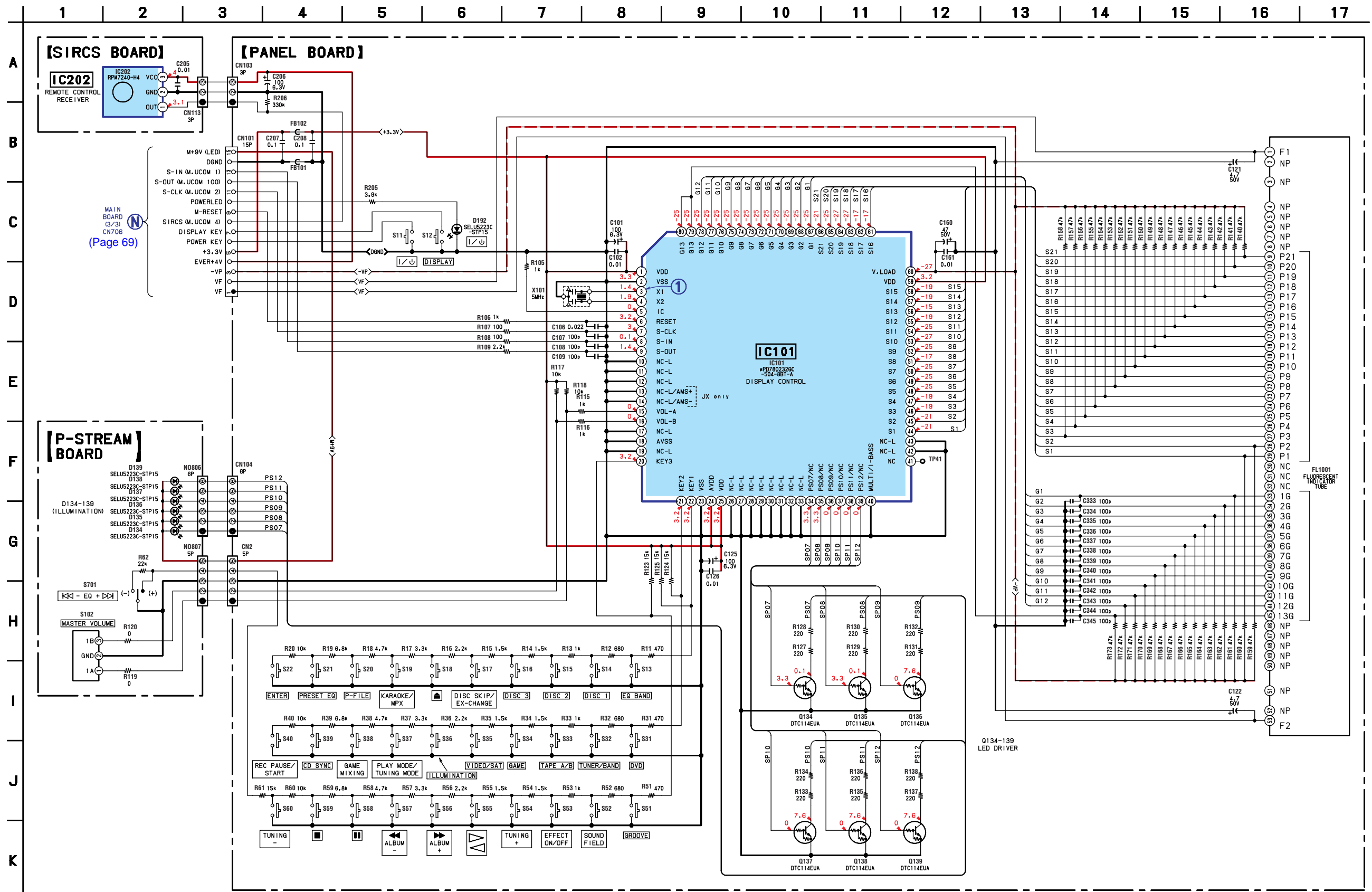
• Semiconductor Location

Ref. No.	Location
D134	F-13
D135	F-14
D136	E-13
D137	E-13
D138	F-12
D139	F-13
D192	B-11
IC101	C-6
IC202	C-13
Q134	E-5
Q135	E-5
Q136	E-5
Q137	F-5
Q138	F-5
Q139	F-5

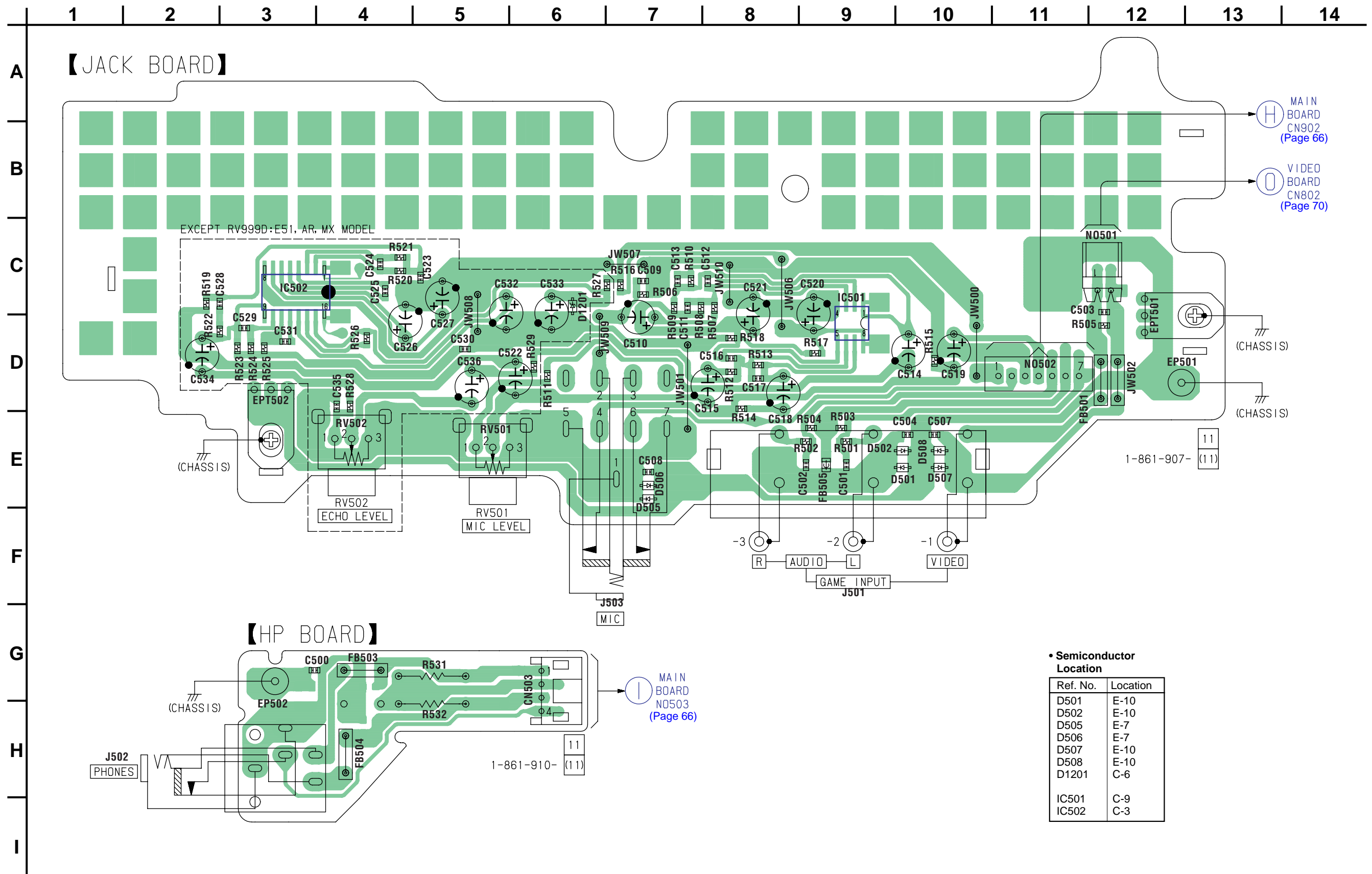
• Waveform
— PANEL Board —



7-32. SCHEMATIC DIAGRAM — PANEL SECTION — • Refer to page 76 for Waveform.



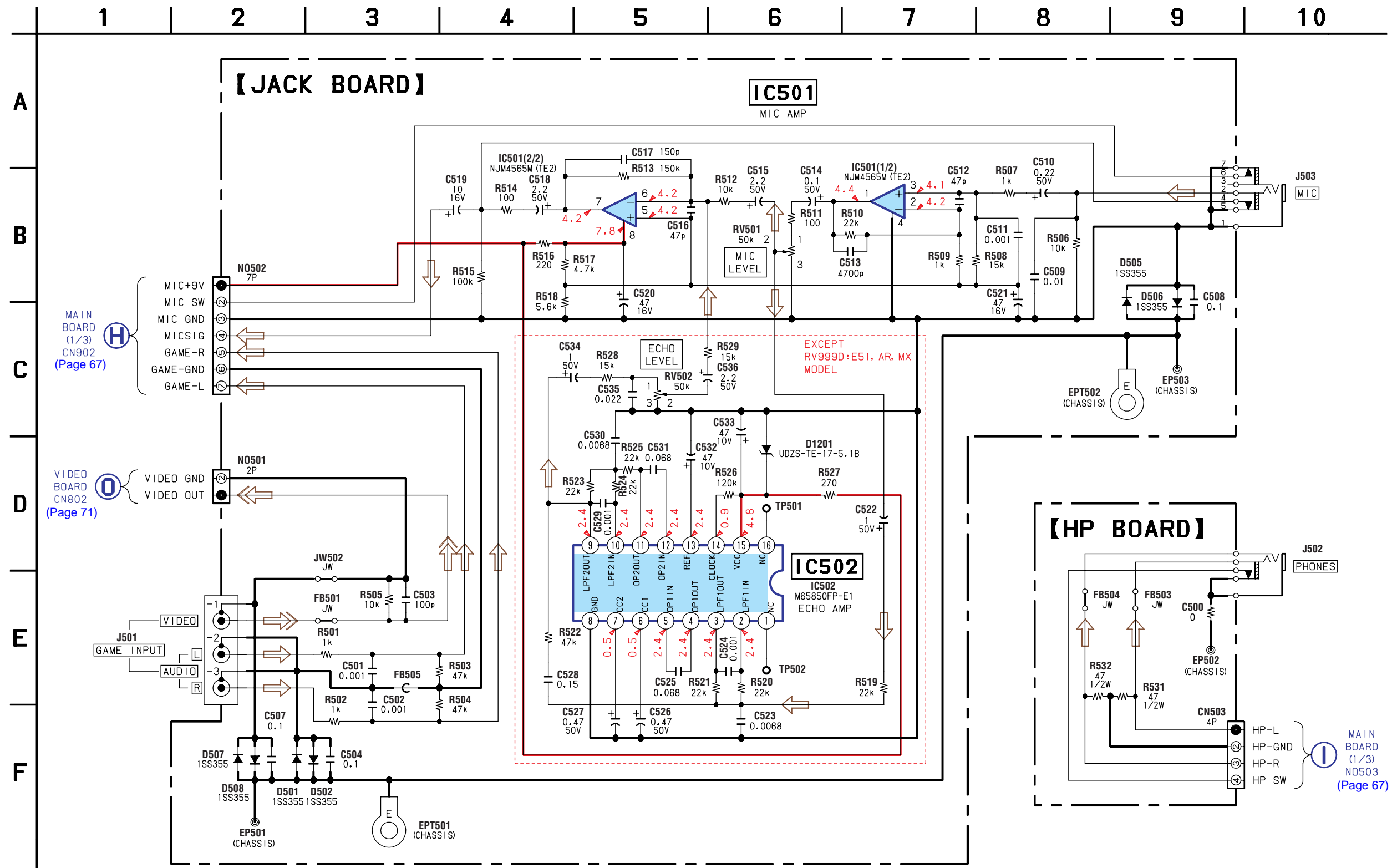
7-33. PRINTED WIRING BOARDS — JACK SECTION — • Refer to page 51 for Circuit Boards Location.  : Uses unleaded solder.




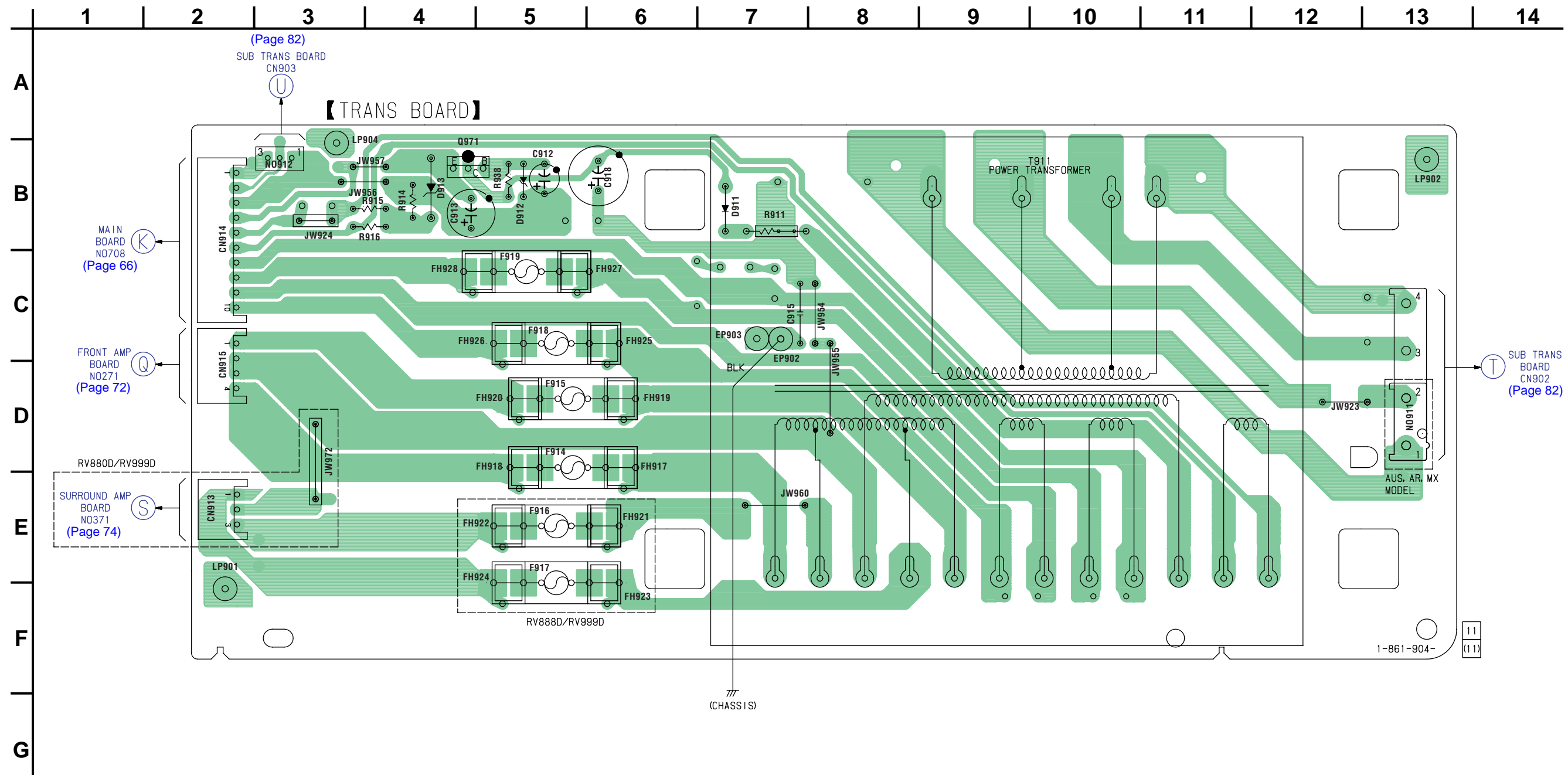
• Semiconductor Location

Ref. No.	Location
D501	E-10
D502	E-10
D505	E-7
D506	E-7
D507	E-10
D508	E-10
D1201	C-6
IC501	C-9
IC502	C-3

7-34. SCHEMATIC DIAGRAM — JACK SECTION —



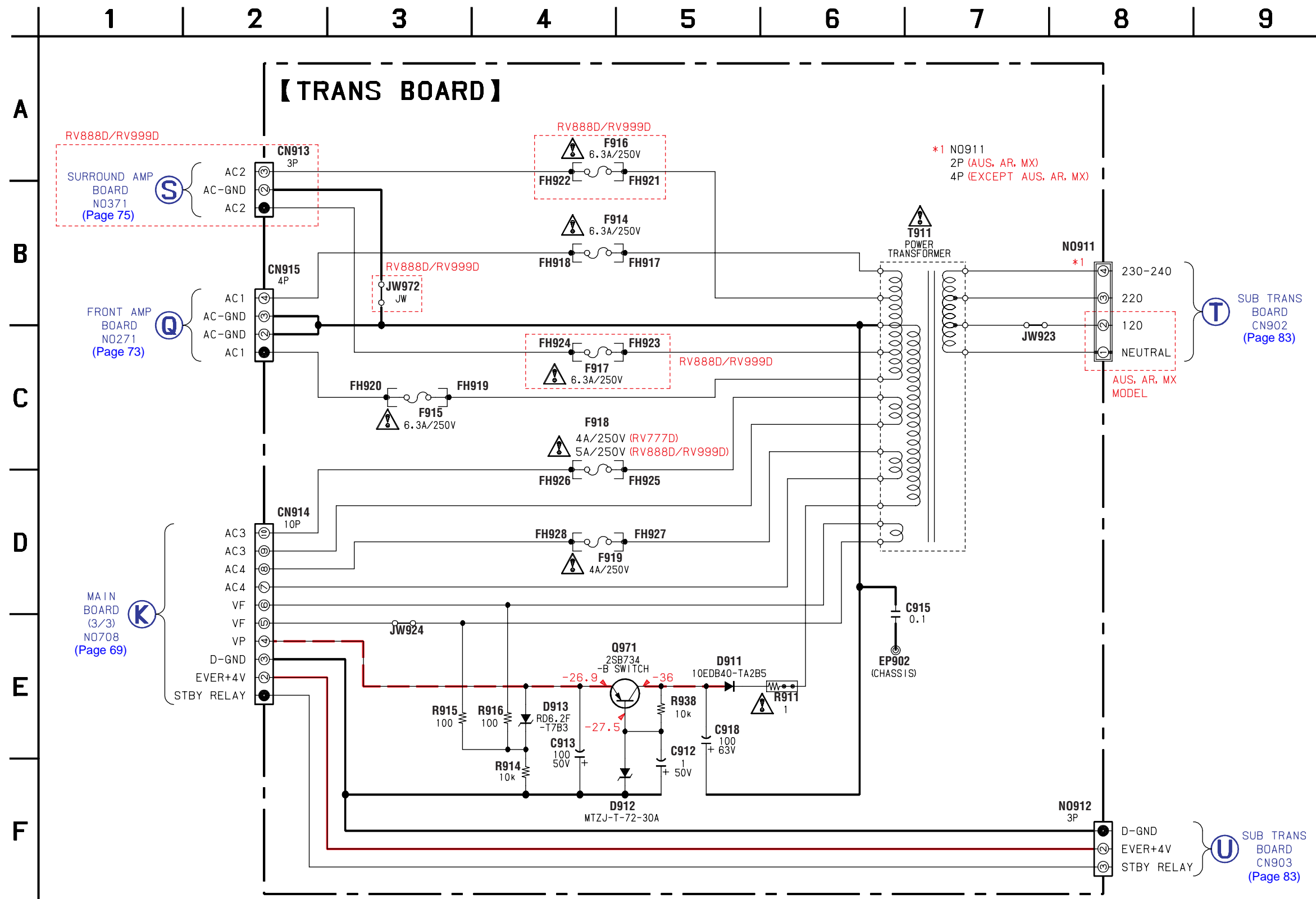
7-35. PRINTED WIRING BOARD — TRANS SECTION — • Refer to page 51 for Circuit Boards Location.  : Uses unleaded solder.




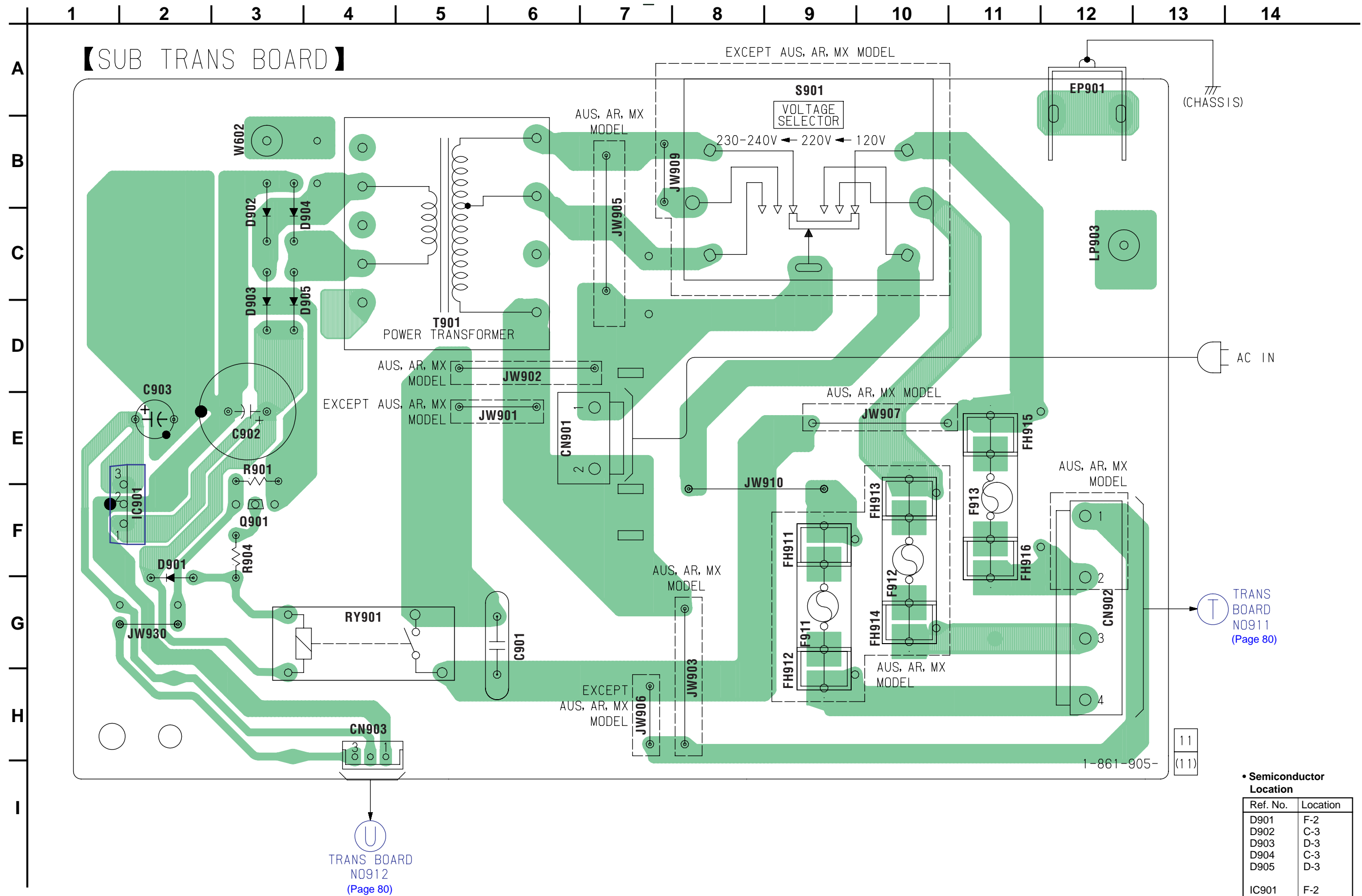
• Semiconductor Location

Ref. No.	Location
D911	B-7
D912	B-5
D913	B-4
Q971	B-4

7-36. SCHEMATIC DIAGRAM — TRANS SECTION —



7-37. PRINTED WIRING BOARD — SUB TRANS SECTION — • Refer to page 51 for Circuit Boards Location.  : Uses unleaded solder.

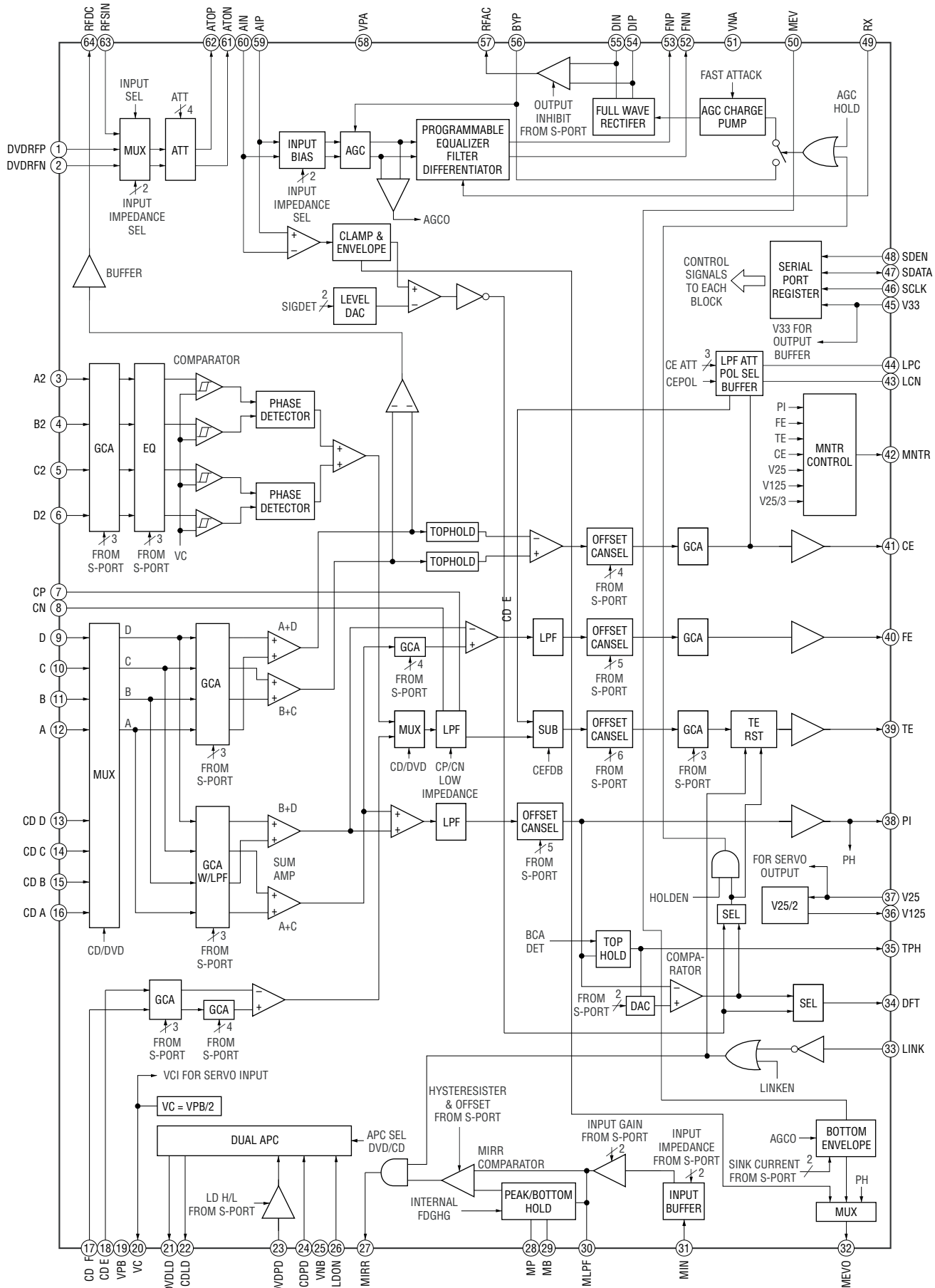


• Semiconductor Location

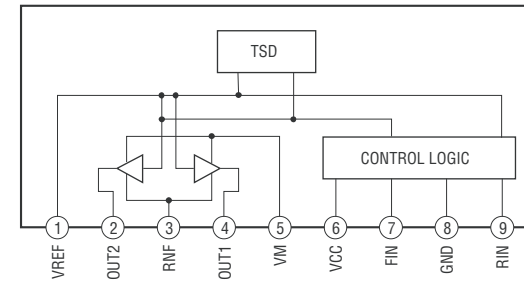
Ref. No.	Location
D901	F-2
D902	C-3
D903	D-3
D904	C-3
D905	D-3
IC901	F-2
Q901	F-3

7-39. IC BLOCK DIAGRAMS

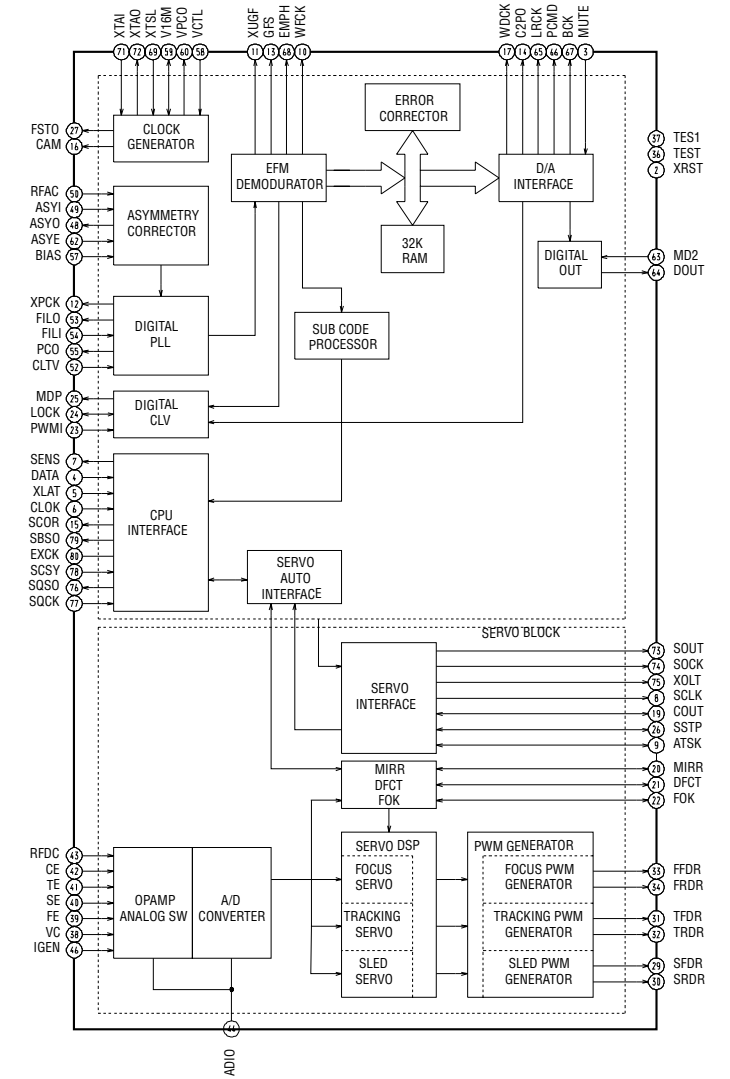
IC001 SP3723CAFOPM (RF Board)



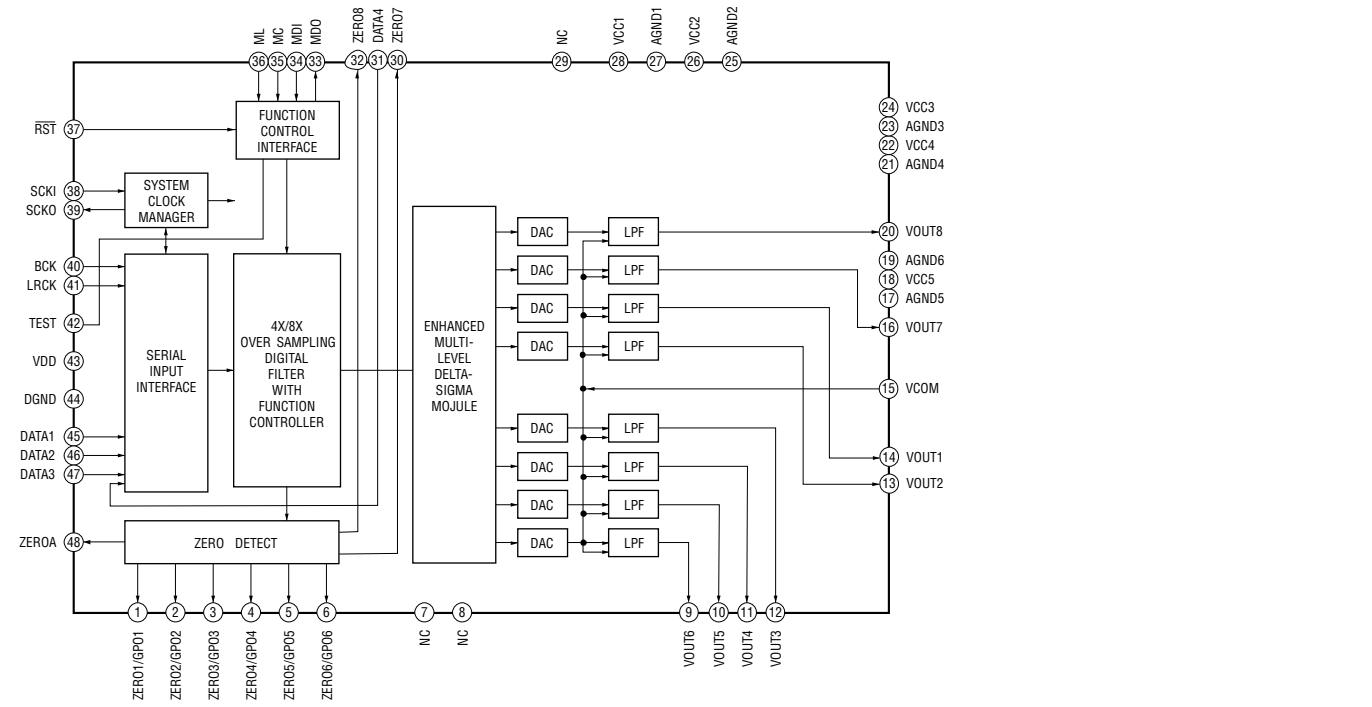
IC701 BA6956AN (DRIVER Board)
IC712 BA6956AN (DRIVER Board)



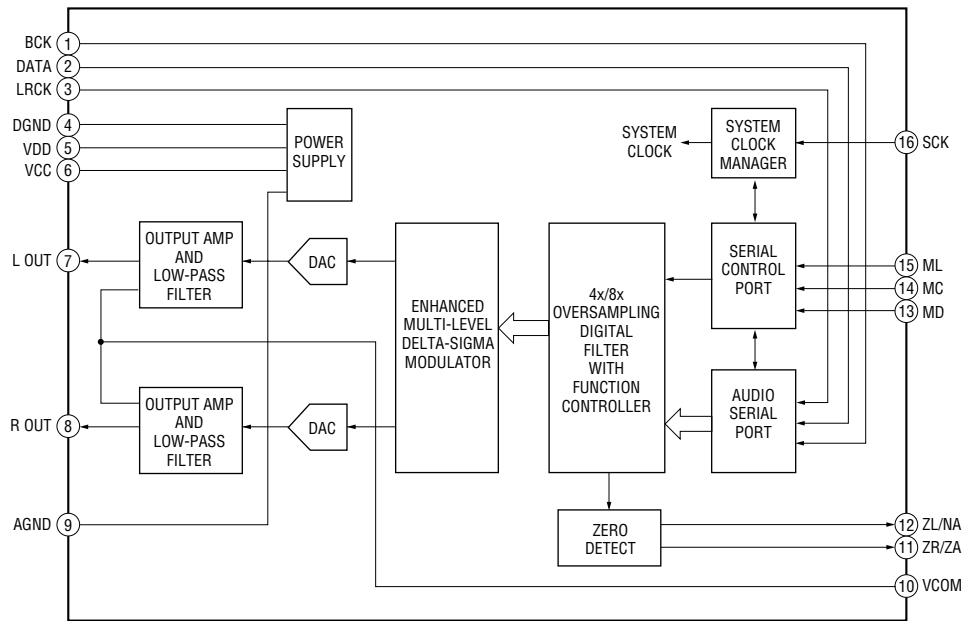
IC509 CXD3068Q (DMB07 Board)



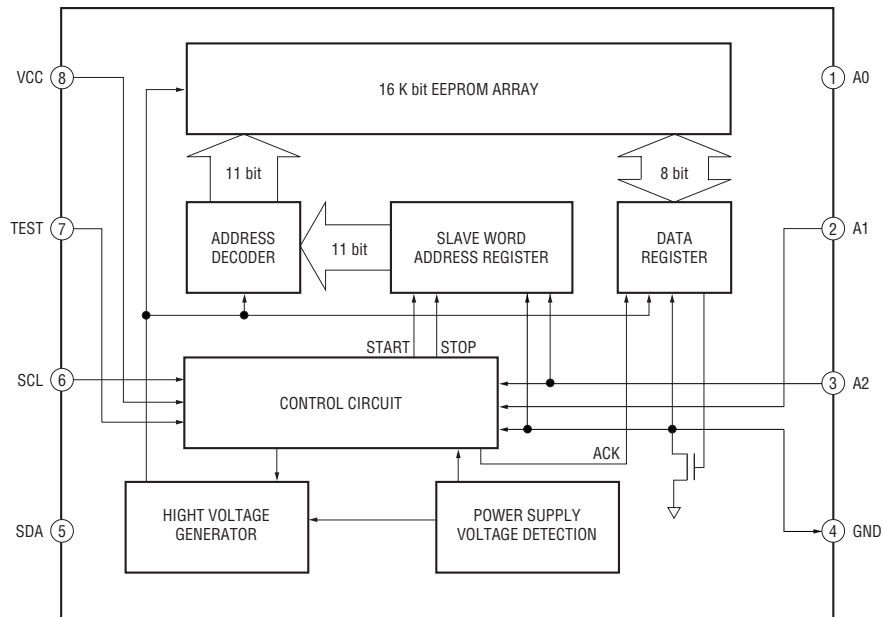
IC302 PCM1609KPTR (DMB07 Board)



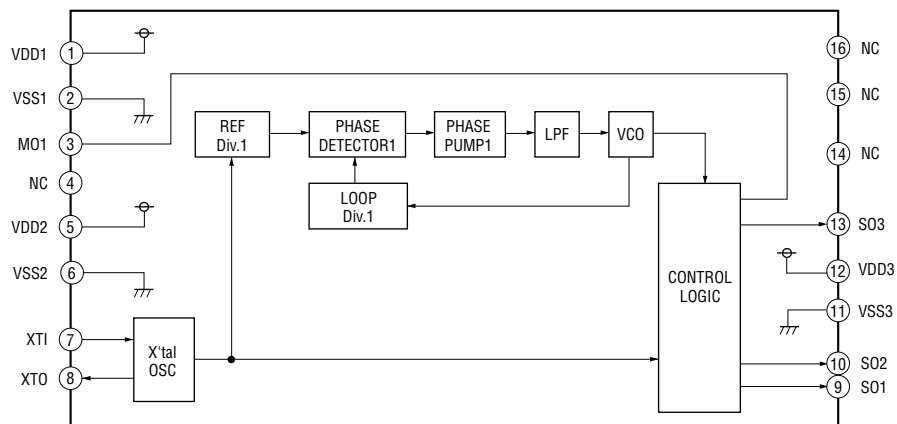
IC331 PCM1751DBQR (DMB07 Board)



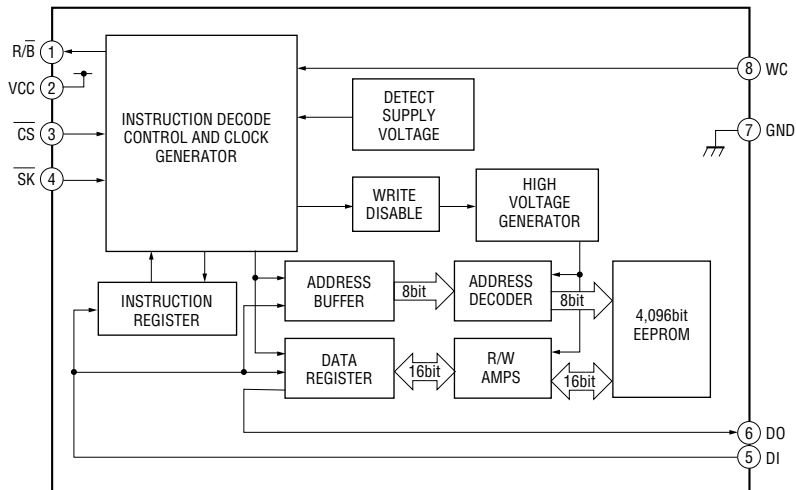
IC903 BR24C16F-WE2 (DMB07 Board)



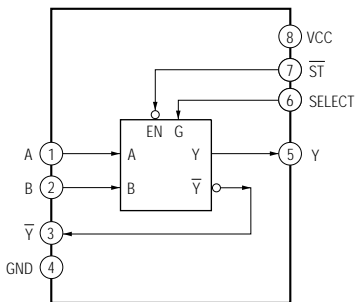
IC906 SM8707GV-G-E2 (DMB07 Board)



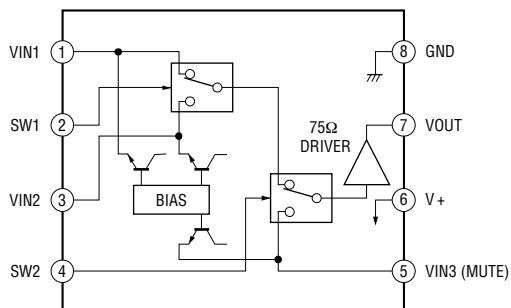
IC204 BR9040F-WE2 (DMB07 Board)



**IC252 TC7WH157FK (TE85R)
(DMB07 Board)**



IC802 NJM2244M-TE2 (VIDEO Board)



SECTION 8 EXPLODED VIEWS

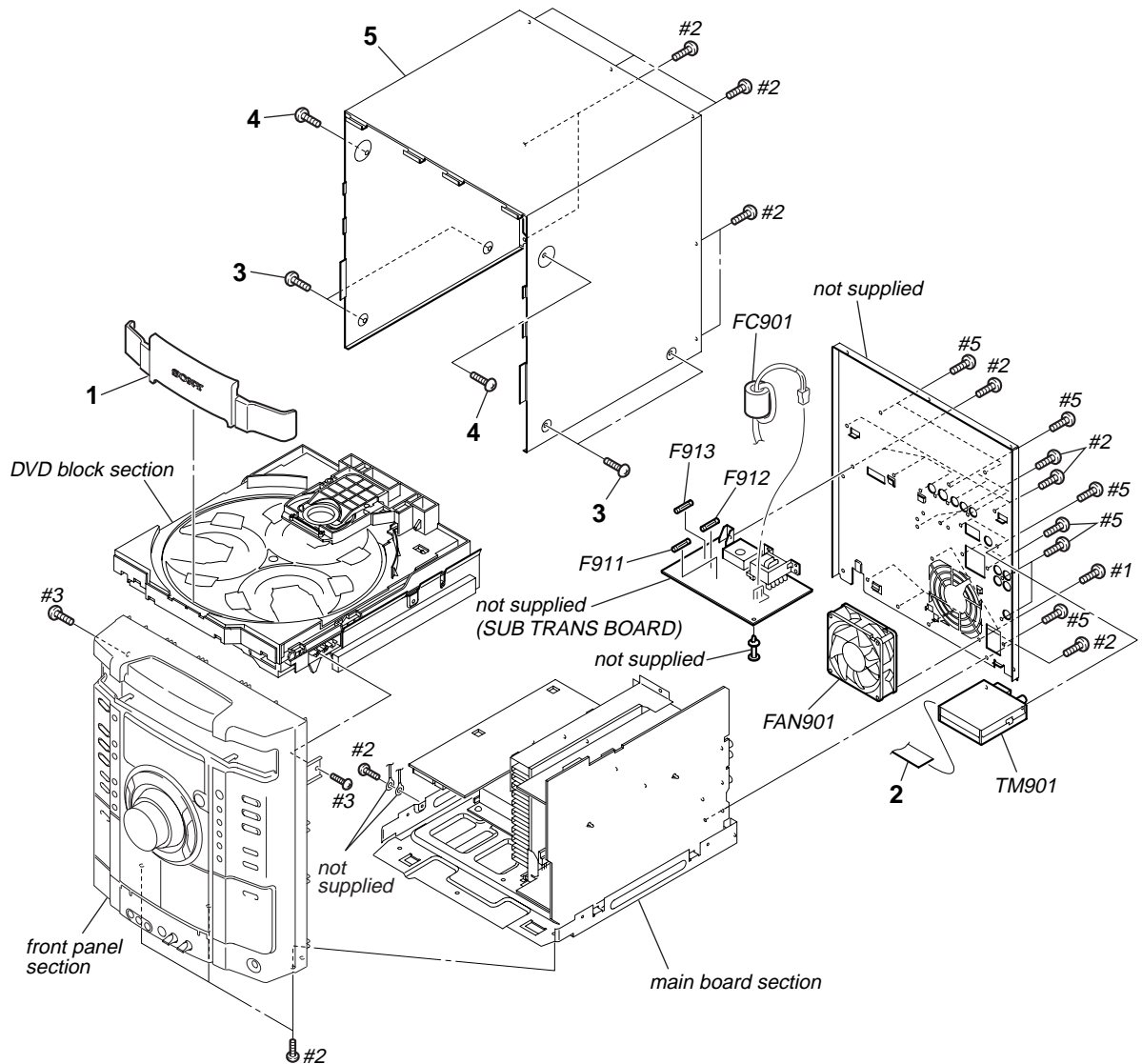
NOTE:

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

- Abbreviation
- E3 : 240 V AC area in E model
- E15 : Iran model
- E51 : 220 V AC area in E model
- AUS : Australian model
- EA : Saudi Arabia model
- PH : Philippine model
- SP : Singapore model
- AR : Argentina model
- MY : Malaysia model
- MX : Mexican model

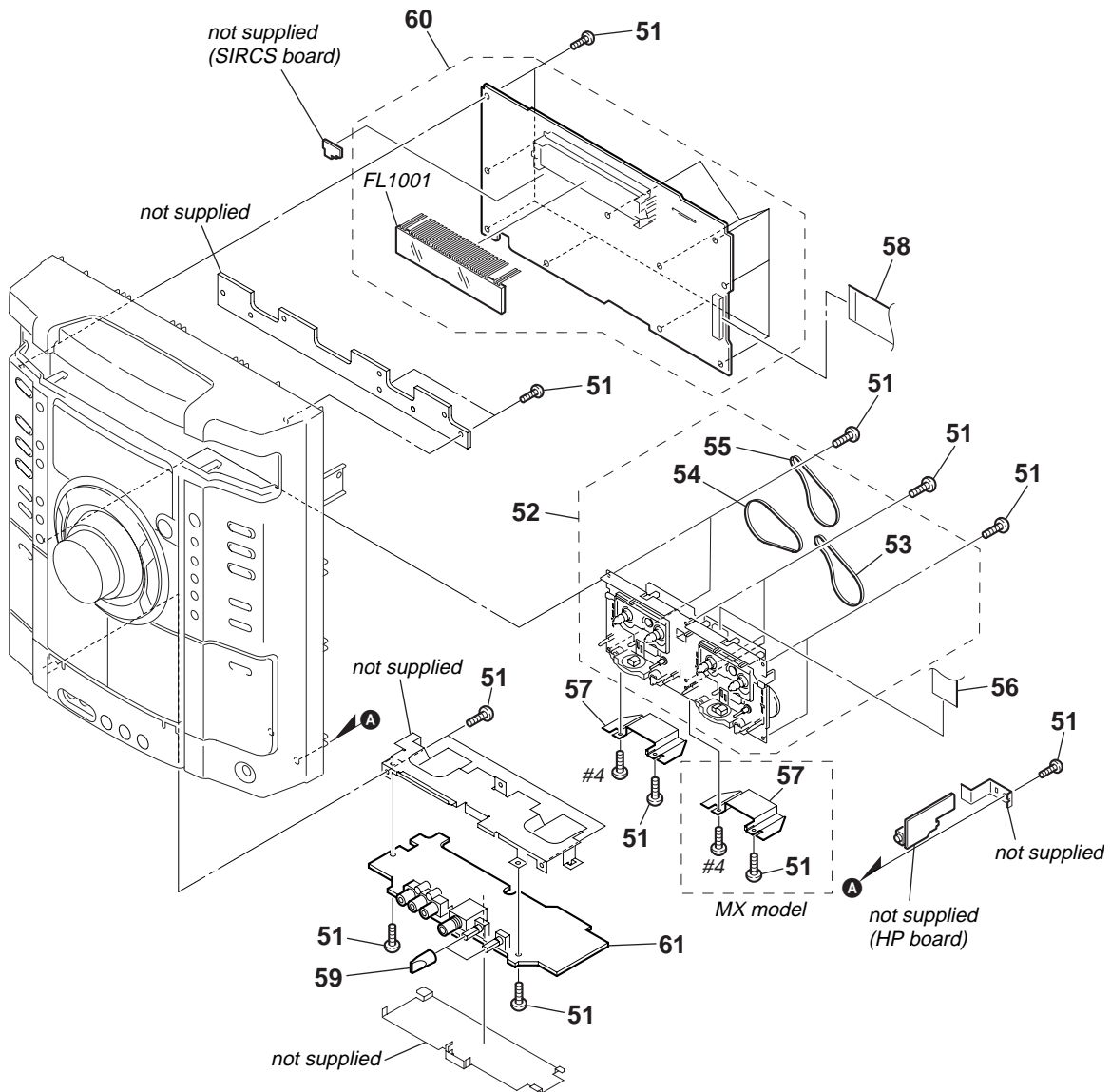
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

8-1. MAIN SECTION



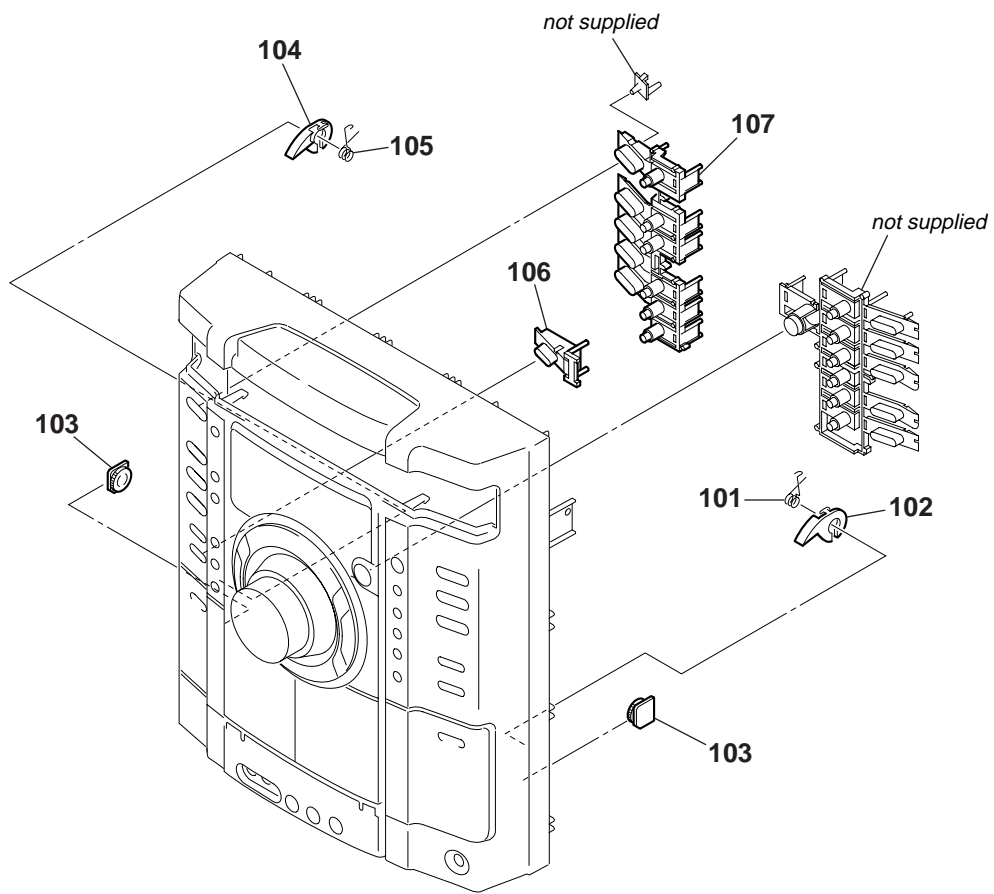
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	X-4956-366-1	DOOR (CD-9) ASSY (RV999D)		Δ F913	1-533-472-12	FUSE, GLASS TUBE (DIA.5) (5A/250V) (RV888D:AUS/RV999D:AUS,AR)	
1	X-4956-367-1	DOOR (CD-8) ASSY (RV888D)		Δ F913	1-533-473-12	FUSE, GLASS TUBE (DIA.5) (6.3A/250V) (RV777D)	
1	X-4956-368-1	DOOR (CD-7) ASSY (RV777D)		Δ F913	1-576-655-12	FUSE, GLASS TUBE (DIA.5) (8A/250V) (RV888D:EXCEPT AUS/ RV999D:EXCEPT AUS,AR)	
2	1-828-965-11	WIRE (FLAT TYPE) (11 CORE)		FAN901	1-763-072-11	FAN, DC	
3	3-363-099-02	SCREW (CASE 3 TP2)		FC901	1-500-386-11	FILTER, CLAMP (FERRITE CORE) (AUS,EA)	
4	3-363-099-32	SCREW (CASE 3 TP2)		TM901	1-693-603-31	TUNER PACK (FM/AM) (ANTENNA)	
5	4-248-760-22	CASE, CABINET STEEL		#1	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3	
Δ F911	1-533-472-12	FUSE, GLASS TUBE (DIA.5) (5A/250V) (EXCEPT AUS,AR,MX)		#2	7-685-871-01	SCREW +BVTT 3X6 (S)	
Δ F912	1-533-472-12	FUSE, GLASS TUBE (DIA.5) (5A/250V) (EXCEPT AUS,AR,MX)		#3	7-685-646-79	SCREW +BVTP 3X8 TYPE2 TT (B)	
				#5	7-685-647-79	SCREW +BVTP 3X10 TYPE2 TT (B)	

8-2. FRONT PANEL SECTION (1)



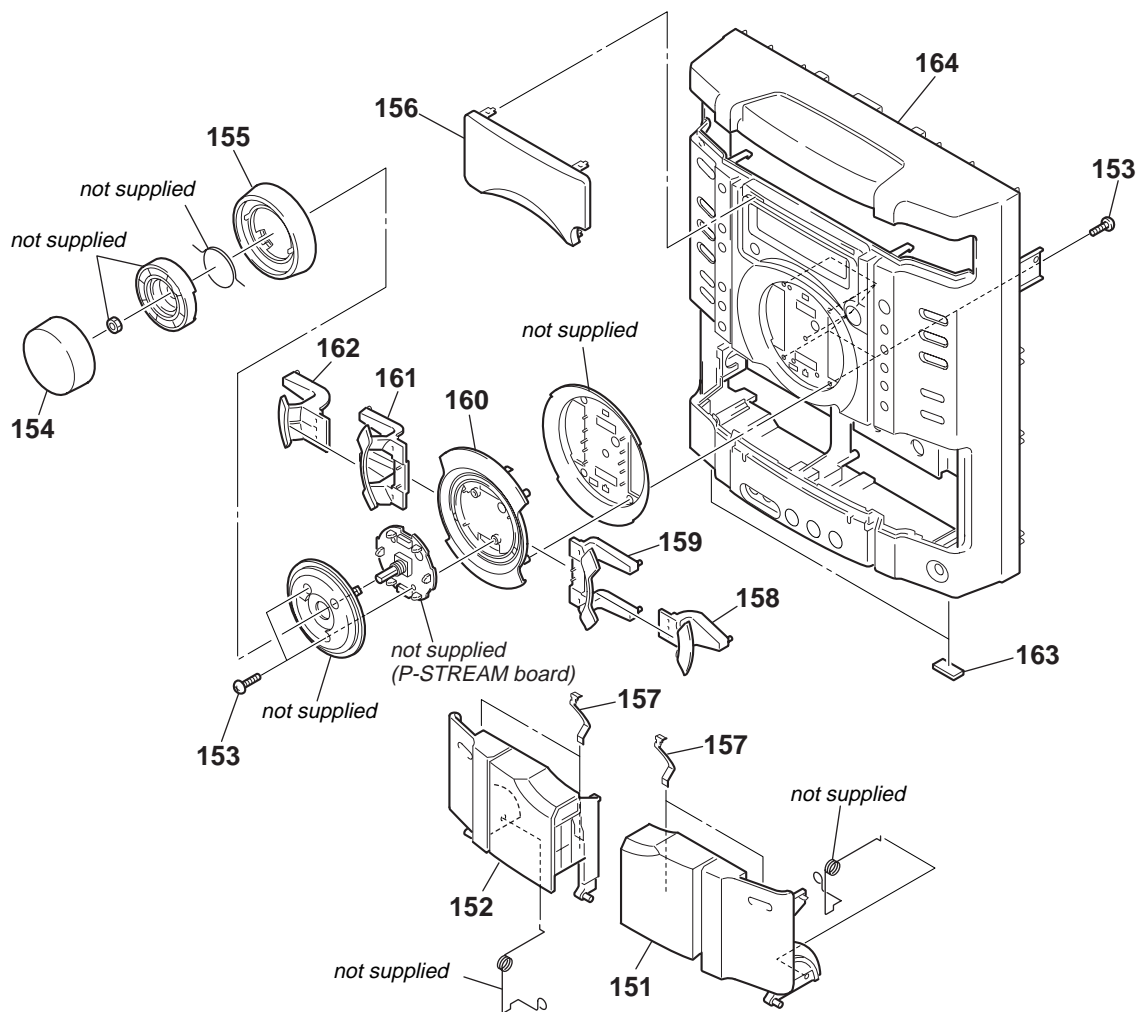
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	4-951-620-01	SCREW (2.6X8), +BVTP		59	4-238-628-03	KNOB, MIC	
52	1-796-487-61	DECK, MECHANICAL		60	A-4751-844-A	PANEL BOARD, COMPLETE	
53	4-243-608-01	BELT (BR)		61	A-1053-972-A	JACK BOARD, COMPLETE	(RV999D:E51,AR,MX)
54	4-243-609-01	BELT (AF)		61	A-4751-845-A	JACK BOARD, COMPLETE	(EXCEPT RV999D:E51,AR,MX)
55	4-243-610-01	BELT (AL)		FL1001	1-518-989-11	INDICATOR TUBE, FLUORESCENT	
56	1-828-974-11	WIRE (FLAT TYPE) (13 CORE)		#4	7-685-853-04	SCREW +BVTT 2X6 (S)	
57	4-245-758-02	PLATE (HEAD), SHIELD					
58	1-828-338-11	WIRE (FLAT TYPE) (15 CORE)					

8-3. FRONT PANEL SECTION (2)



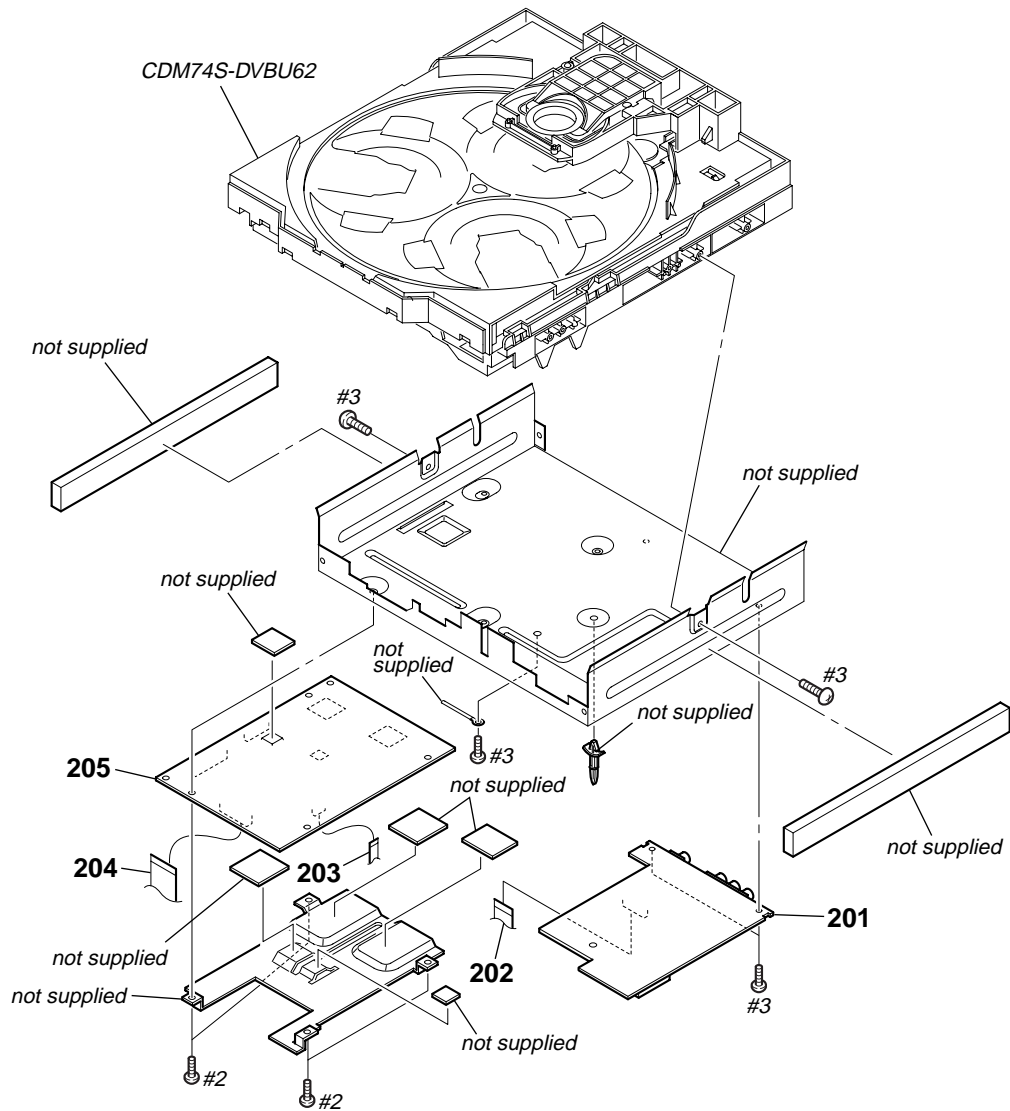
<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
101	4-231-841-01	SPRING (HEART CAM-B)		105	4-231-836-01	SPRING (HEART CAM-A)	
102	4-231-825-01	CAM (B), HEART		106	4-252-218-11	BUTTON (VIDEO/SAT)	
103	4-224-104-41	DAMPER		107	4-252-203-21	BUTTON (POWER)	
104	4-231-824-01	CAM (A), HEART					

8-4. FRONT PANEL SECTION (3)



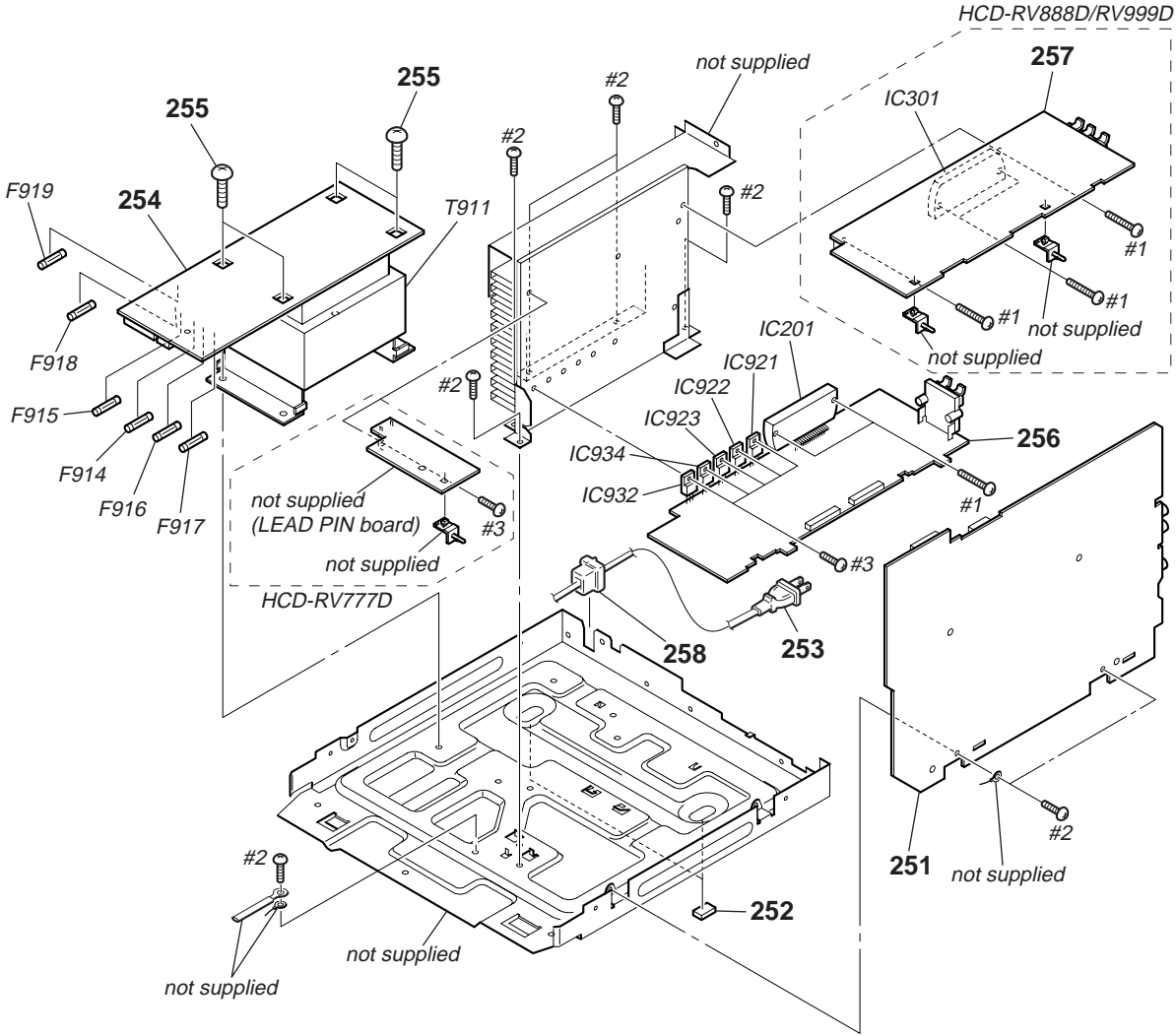
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	4-252-202-11	DOOR (B), CASS		160	4-252-200-01	COVER, BUTTON	
152	4-252-201-11	DOOR (A), CASS		161	4-252-208-11	BUTTON (FR/ALBUM-)	
153	4-951-620-01	SCREW (2.6X8), +BVTP		162	4-252-206-01	BUTTON (STOP)	
154	4-252-214-01	KNOB, VOLUME		163	4-233-980-01	FOOT, RUBBER	
155	X-4956-295-1	RING ASSY, KNOB		164	4-253-804-21	PANEL, FRONT (RV888D/RV999D:EXCEPT E51,AR,MX)	
156	4-252-198-01	WINDOW, DISPLAY		164	4-253-804-31	PANEL, FRONT (RV999D:E51,AR,MX)	
157	4-238-631-01	SPRING, TAPE		164	4-253-804-41	PANEL, FRONT (RV777D)	
158	4-252-205-11	BUTTON (PLAY)					
159	4-252-207-11	BUTTON (FF/ALBUM+)					

8-5. DVD BLOCK SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	A-4751-861-A	VIDEO BOARD, COMPLETE		205	A-4751-975-A	DMB07 BOARD, COMPLETE (RV999D)	
202	1-828-895-11	WIRE (FLAT TYPE) (15 CORE)		205	A-4751-976-A	DMB07 BOARD, COMPLETE (RV888D)	
203	1-828-288-11	WIRE (FLAT TYPE) (5 CORE)		205	A-4751-977-A	DMB07 BOARD, COMPLETE (RV777D)	
204	1-828-333-11	WIRE (FLAT TYPE) (13 CORE) (RV777D)		#2	7-685-871-01	SCREW +BVTT 3X6 (S)	
204	1-828-393-11	WIRE (FLAT TYPE) (25 CORE) (RV888D/RV999D)		#3	7-685-646-79	SCREW +BVTP 3X8 TYPE2 TT (B)	

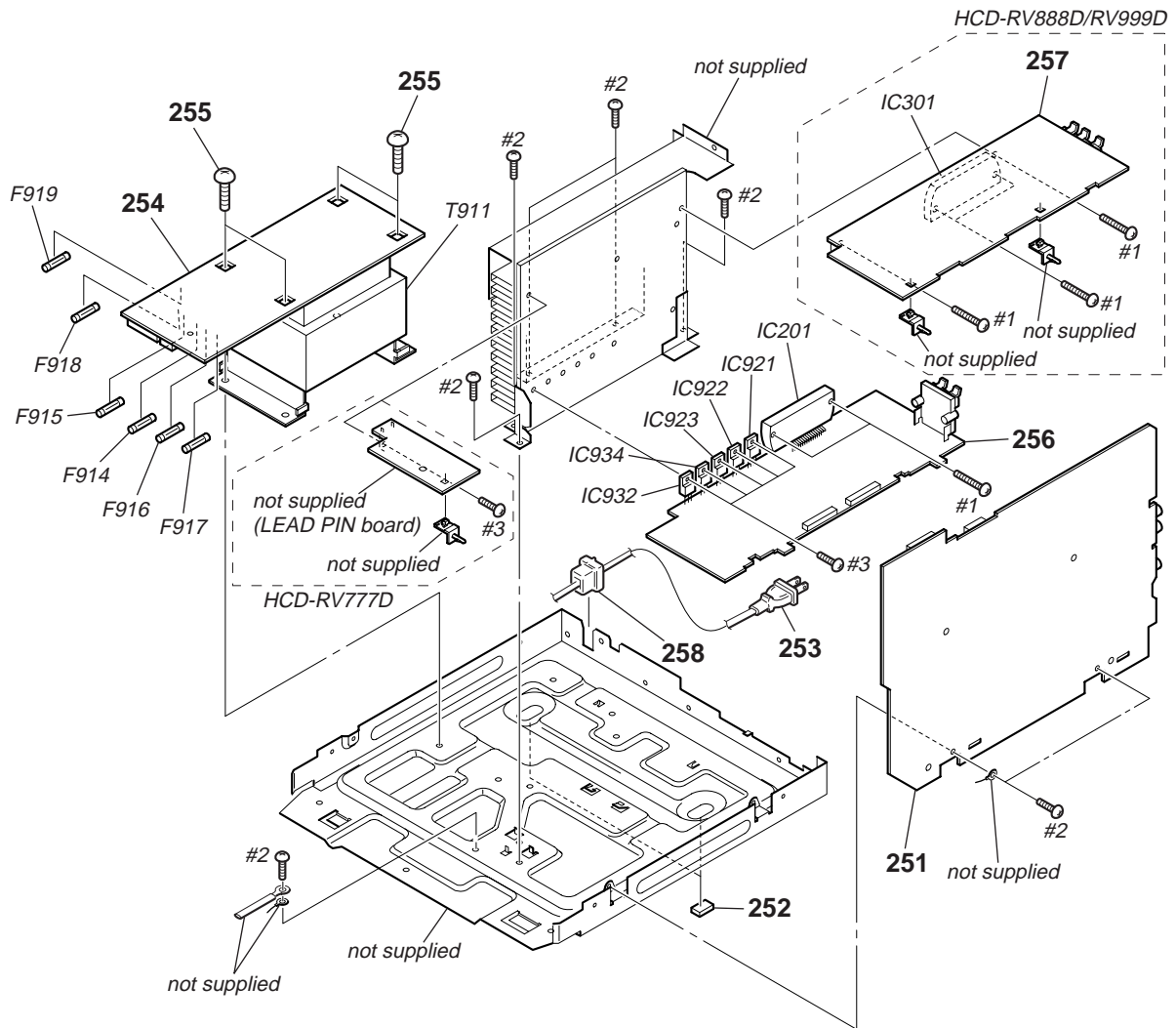
8-6. MAIN BOARD SECTION (1/2)



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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
251	A-1053-866-A	MAIN BOARD, COMPLETE (RV999D:SP,MY,PH)		Δ 253	1-696-848-22	CORD, POWER (AUS)	
251	A-1053-867-A	MAIN BOARD, COMPLETE (RV999D:EA)		Δ 253	1-751-520-21	CORD, POWER (EA)	
251	A-1053-868-A	MAIN BOARD, COMPLETE (RV999D:AUS)		Δ 253	1-777-071-83	CORD, POWER (E51,PH,SP,MY)	
251	A-1053-869-A	MAIN BOARD, COMPLETE (RV999D:E51,AR,MX)		Δ 253	1-783-941-22	CORD, POWER (AR)	
251	A-1053-871-A	MAIN BOARD, COMPLETE (RV888D:SP,MY)		Δ 253	1-827-226-11	CORD, POWER (E3,E15,MX)	
251	A-1053-872-A	MAIN BOARD, COMPLETE (RV888D:EA)		254	A-1053-996-A	TRANS BOARD, COMPLETE (AUS)	
251	A-1053-873-A	MAIN BOARD, COMPLETE (RV888D:AUS)		254	A-1053-997-A	TRANS BOARD, COMPLETE (E51)	
251	A-1053-875-A	MAIN BOARD, COMPLETE (RV777D:SP,MY,PH)		254	A-1053-998-A	TRANS BOARD, COMPLETE (MX)	
251	A-1053-876-A	MAIN BOARD, COMPLETE (RV777D:EA)		254	A-1053-999-A	TRANS BOARD, COMPLETE (AR)	
251	A-4751-800-A	MAIN BOARD, COMPLETE (RV999D:E3,E15)		254	A-4751-863-A	TRANS BOARD, COMPLETE (RV888D:EXCEPT AUS/ RV999D:EXCEPT E51,AUS,AR,MX)	
251	A-4751-804-A	MAIN BOARD, COMPLETE (RV888D:E3,E15)		254	A-4751-866-A	TRANS BOARD, COMPLETE (RV777D)	
251	A-4751-806-A	MAIN BOARD, COMPLETE (RV777D:E3,E15)					
252	4-233-980-01	FOOT, RUBBER					

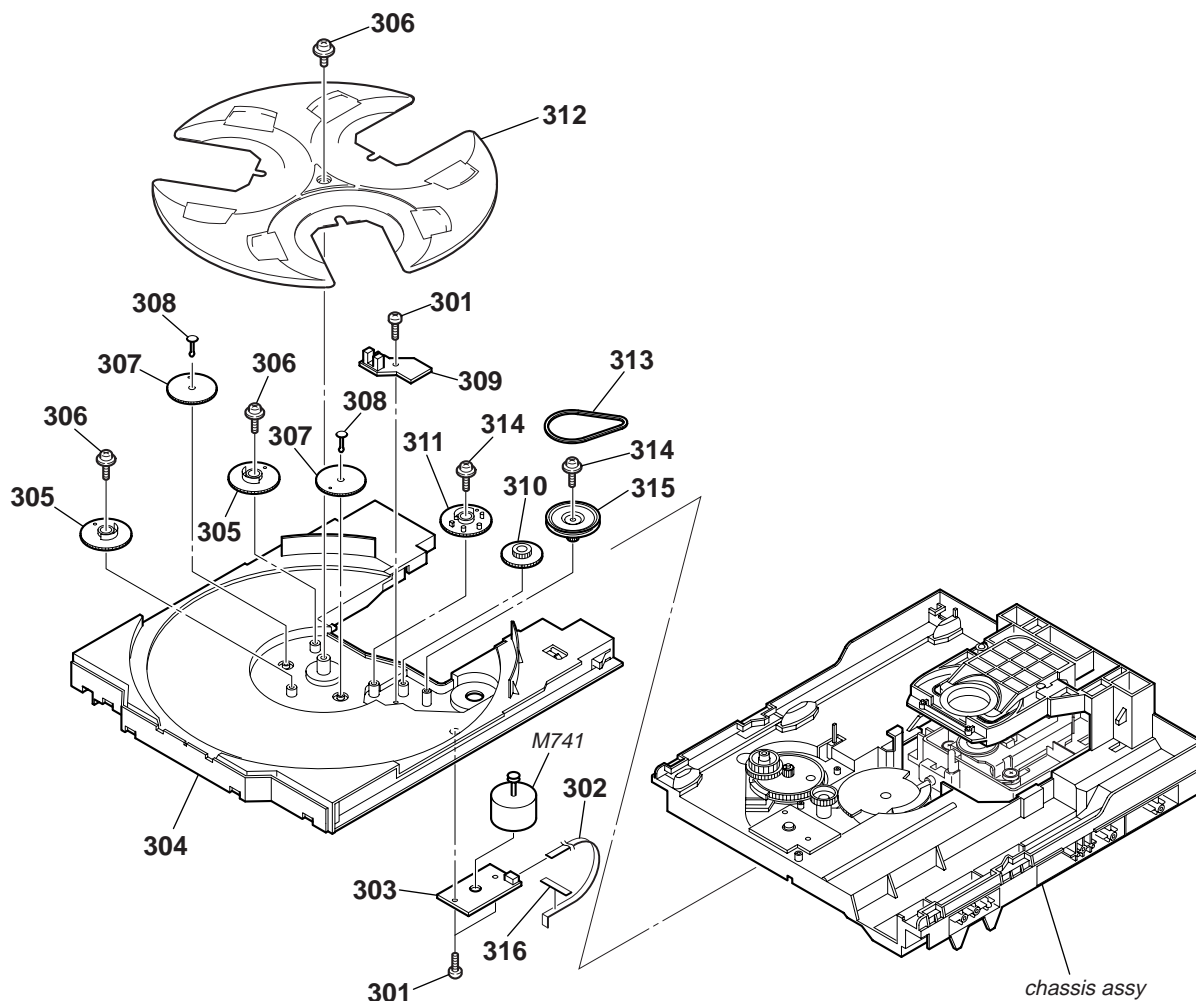
8-7. MAIN BOARD SECTION (2/2)



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

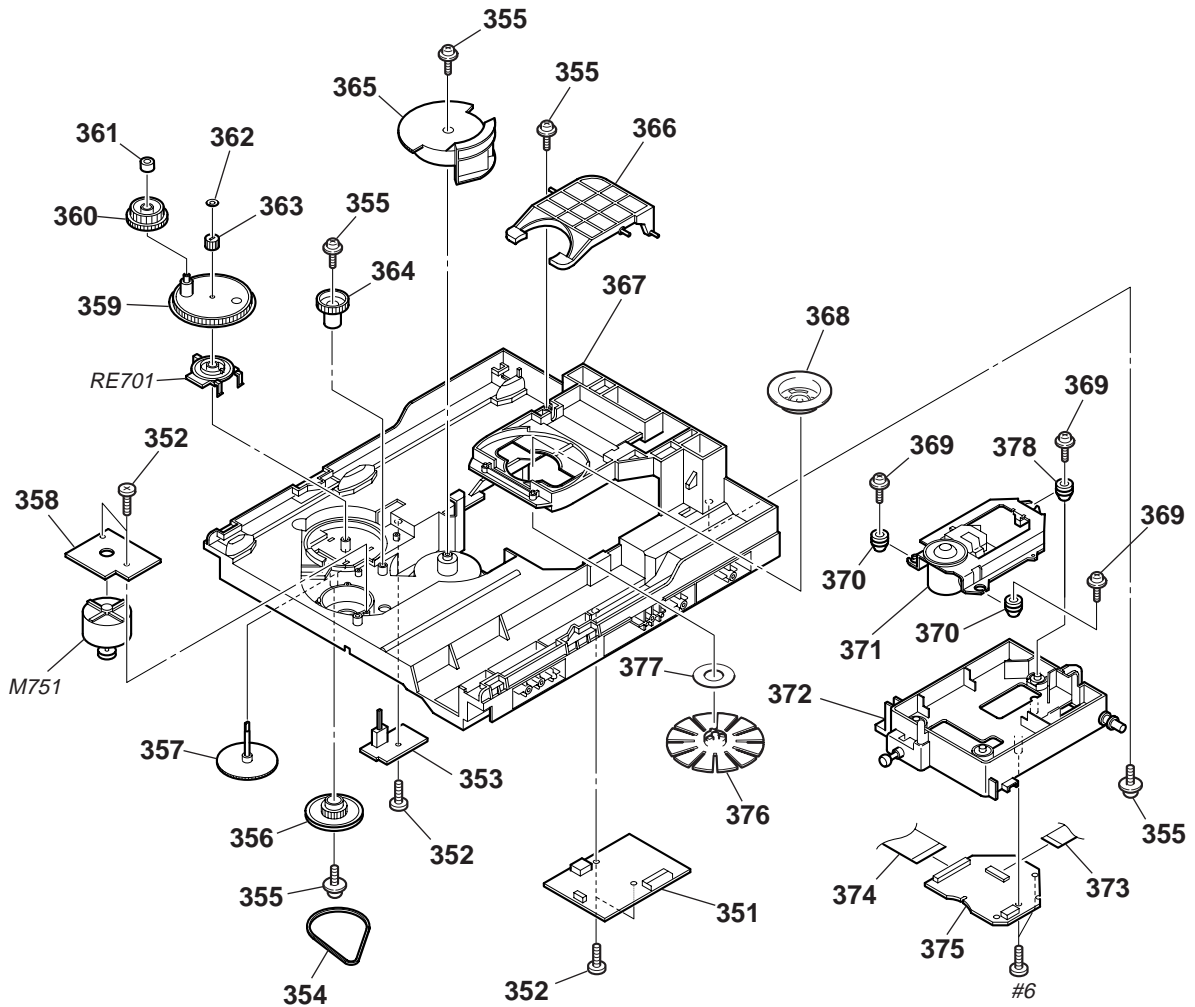
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
255	4-900-386-01	SCREW		Δ F919	1-533-471-12	FUSE, GLASS TUBE (DIA.5) (4A/250V)	
256	A-1053-978-A	FRONT AMP BOARD, COMPLETE (RV888D)		IC201	6-705-853-01	IC STK403-120	
256	A-4751-854-A	FRONT AMP BOARD, COMPLETE (RV999D)		IC301	6-703-651-11	IC M61530FP-D60G (RV888D/RV999D)	
256	A-4751-856-A	FRONT AMP BOARD, COMPLETE (RV777D)		IC921	8-759-518-68	IC PQ12RF21	
257	A-1053-983-A	SURROUND AMP BOARD, COMPLETE (RV888D)		IC922	8-759-701-59	IC NJM78M09FA	
257	A-4751-859-A	SURROUND AMP BOARD, COMPLETE (RV999D)		IC923	8-759-701-59	IC NJM78M09FA	
258	3-703-244-00	BUSHING (2104), CORD (EXCEPT E3,E15,MX)		IC932	6-703-546-01	IC TA7804LS	
* 258	3-703-571-12	BUSHING (S) (4516), CORD (E3,E15,MX)		IC934	8-759-231-53	IC TA7805S	
Δ F914	1-533-473-12	FUSE, GLASS TUBE (DIA.5) (6.3A/250V)		Δ T911	1-443-174-11	TRANSFORMER, POWER (RV777D:EXCEPT EA)	
Δ F915	1-533-473-12	FUSE, GLASS TUBE (DIA.5) (6.3A/250V)		Δ T911	1-443-175-11	TRANSFORMER, POWER (RV777D:EA)	
Δ F916	1-533-473-12	FUSE, GLASS TUBE (DIA.5) (6.3A/250V) (RV888D/RV999D)		Δ T911	1-443-352-11	TRANSFORMER, POWER (RV888D:EXCEPT EA/RV999D:EXCEPT EA,MX)	
Δ F917	1-533-473-12	FUSE, GLASS TUBE (DIA.5) (6.3A/250V) (RV888D/RV999D)		Δ T911	1-443-362-11	TRANSFORMER, POWER (RV888D:EA/RV999D:EA,MX)	
Δ F918	1-533-471-12	FUSE, GLASS TUBE (DIA.5) (4A/250V) (RV777D)		#1	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3	
Δ F918	1-533-472-12	FUSE, GLASS TUBE (DIA.5) (5A/250V) (RV888D/RV999D)		#2	7-685-871-01	SCREW +BVTT 3X6 (S)	
				#3	7-685-646-79	SCREW +BVTP 3X8 TYPE2 TT (B)	

8-8. DVD MECHANISM DECK SECTION (1)
(CDM74S-DVBU62)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
301	4-218-253-21	SCREW (M2.6), +BTTP		310	4-243-820-01	GEAR (TABLE)	
302	1-776-182-11	WIRE (FLAT TYPE) (5 CORE)		311	4-243-819-01	GEAR (GENEVA)	
303	1-687-134-12	MOTOR (TB) BOARD		312	4-243-816-01	TRAY	
304	4-243-815-01	TABLE (LOADING)		313	4-243-823-01	BELT (TABLE)	
305	4-245-571-02	GEAR (STOPPER)		314	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING	
306	4-218-252-61	SCREW (+PTPWH M2.6), FLOATING		315	4-243-821-01	PULLEY (TABLE)	
307	4-245-570-01	GEAR (JOINT)		316	3-231-598-01	SHEET (BA)	
308	4-245-572-01	BUSHING (GEAR)		M741	A-4723-963-A	MOTOR ASSY, TABLE (TABLE)	
309	1-687-132-12	SENSOR BOARD					

8-9. DVD MECHANISM DECK SECTION (2)
(CDM74S-DVBU62)



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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
351	1-687-135-12	DRIVER BOARD		367	4-243-817-11	CHASSIS	
352	4-218-253-31	SCREW (M2.6), +BTPP		368	4-233-594-01	PULLEY (B) (DVD), CHUCKING	
353	1-687-669-12	SW BOARD		369	4-981-923-01	SCREW (M), STEP	
354	4-244-034-01	BELT (LOADING)		370	3-057-023-11	INSULATOR (RB)	
355	4-218-252-61	SCREW (+PTPWH M2.6), FLOATING		\triangle 371	A-1067-676-A	OPTICAL PICK-UP (DBU-3)	
356	4-225-844-01	GEAR (LOADING A)		372	X-4955-538-1	HOLDER (DBU) ASSY	
357	4-224-613-01	GEAR (SHAFT)		373	1-824-106-12	CABLE, FLEXIBLE FLAT (24 CORE)	
358	1-687-133-12	MOTOR (LD) BOARD		374	1-828-672-11	WIRE (FLAT TYPE) (29 CORE)	
359	4-244-108-01	GEAR, SWING		375	A-4728-690-A	RF BOARD, COMPLETE	
360	4-224-609-01	GEAR (LOADING C)		376	X-4954-450-1	PULLEY (240) ASSY	
361	4-224-608-01	COLLAR, SWING		377	3-053-844-01	YOKE	
362	3-016-533-11	WASHER (FR), STOPPER		378	3-053-847-41	INSULATOR	
363	4-224-611-01	GEAR (LOADING B)		M751	A-4736-655-A	MOTOR ASSY, LOADING (LOADING)	
364	4-224-606-01	GEAR (RV)		RE701	1-477-680-12	ENCODER, ROTARY	
365	4-243-818-01	GEAR (U/D)				(DISC TRAY ADDRESS DETECT)	
366	4-243-822-02	LEVER (LIFTER)		#6	7-685-533-19	SCREW +BTP 2.6X6 TYPE2 N-S	

ELECTRICAL PARTS LIST

DMB07

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

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

- Abbreviation
E3 : 240 V AC area in E model
E15 : Iran model
E51 : 220 V AC area in E model
AUS : Australian model
EA : Saudi Arabia model
PH : Philippine model
SP : Singapore model
AR : Argentina model
MY : Malaysia model
MX : Mexican model

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	A-4751-975-A	DMB07 BOARD, COMPLETE (RV999D)		C253	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
	A-4751-976-A	DMB07 BOARD, COMPLETE (RV888D)		C254	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
	A-4751-977-A	DMB07 BOARD, COMPLETE (RV777D)		C255	1-117-370-11	CERAMIC CHIP 10uF	10V
		*****		C256	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
		< CAPACITOR >		C257	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C101	1-126-246-11	ELECT CHIP 220uF 20%	4V	C258	1-117-370-11	CERAMIC CHIP 10uF	10V
C151	1-126-206-11	ELECT CHIP 100uF 20%	6.3V	C259	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C201	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V	C260	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C202	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V	C261	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C203	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V	C262	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C204	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V	C263	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C205	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V	C264	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C213	1-126-209-11	ELECT CHIP 100uF 20%	4V	C265	1-117-370-11	CERAMIC CHIP 10uF	10V
C214	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V	C266	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C215	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V	C267	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C216	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V	C268	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C218	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V	C269	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C220	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V	C270	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C226	1-107-820-11	CERAMIC CHIP 0.1uF	16V	C271	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C227	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V	C272	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C229	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V	C274	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C230	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V	C275	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C231	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V	C276	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C232	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V	C277	1-164-874-11	CERAMIC CHIP 100PF 5%	50V
C233	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V	C278	1-164-874-11	CERAMIC CHIP 100PF 5%	50V
C234	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V	C279	1-164-874-11	CERAMIC CHIP 100PF 5%	50V
C235	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V	C280	1-164-874-11	CERAMIC CHIP 100PF 5%	50V
C236	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V	C281	1-164-874-11	CERAMIC CHIP 100PF 5%	50V
C237	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V	C282	1-164-874-11	CERAMIC CHIP 100PF 5%	50V
C238	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V	C283	1-164-874-11	CERAMIC CHIP 100PF 5%	50V
C239	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V	C289	1-164-947-11	CERAMIC CHIP 0.01uF	50V (RV777D)
C240	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V	C290	1-164-874-11	CERAMIC CHIP 100PF 5%	50V
C241	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V	C291	1-164-874-11	CERAMIC CHIP 100PF 5%	50V
C242	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V	C302	1-164-943-11	CERAMIC CHIP 0.01uF	10% 16V (RV888D/RV999D)
C243	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V	C303	1-164-943-11	CERAMIC CHIP 0.01uF	10% 16V (RV888D/RV999D)
C244	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V	C304	1-164-943-11	CERAMIC CHIP 0.01uF	10% 16V (RV888D/RV999D)
C245	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V	C305	1-164-943-11	CERAMIC CHIP 0.01uF	10% 16V (RV888D/RV999D)
C246	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V	C306	1-164-943-11	CERAMIC CHIP 0.01uF	10% 16V (RV888D/RV999D)
C247	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V	C307	1-164-943-11	CERAMIC CHIP 0.01uF	10% 16V (RV888D/RV999D)
C248	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V				
C249	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V				
C250	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V				
C251	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V				
C252	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V				

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
C308	1-164-874-11	CERAMIC CHIP	100PF	5%	50V	C544	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C309	1-164-874-11	CERAMIC CHIP	100PF	5%	50V	C545	1-117-370-11	CERAMIC CHIP	10uF		10V
C321	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	C547	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
					(RV888D/RV999D)	C548	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C322	1-107-820-11	CERAMIC CHIP	0.1uF		16V	C551	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
					(RV888D/RV999D)						
C323	1-107-820-11	CERAMIC CHIP	0.1uF		16V	C552	1-216-295-11	SHORT CHIP	0		
					(RV888D/RV999D)	C553	1-164-940-11	CERAMIC CHIP	0.0033uF	10%	16V
C324	1-107-820-11	CERAMIC CHIP	0.1uF		16V	C556	1-117-370-11	CERAMIC CHIP	10uF		10V
					(RV888D/RV999D)	C558	1-126-209-11	ELECT CHIP	100uF	20%	4V
C325	1-126-209-11	ELECT CHIP	100uF	20%	4V	C559	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
					(RV888D/RV999D)						
C326	1-164-947-11	CERAMIC CHIP	0.01uF		50V	C560	1-164-938-11	CERAMIC CHIP	0.0015uF	10%	50V
					(RV888D/RV999D)	C561	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C342	1-107-820-11	CERAMIC CHIP	0.1uF		16V	C563	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
					(RV777D)	C565	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C343	1-124-779-00	ELECT CHIP	10uF	20%	16V	C567	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
					(RV777D)						
C344	1-107-820-11	CERAMIC CHIP	0.1uF		16V	C568	1-117-370-11	CERAMIC CHIP	10uF		10V
					(RV777D)	C569	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C345	1-124-779-00	ELECT CHIP	10uF	20%	16V	C570	1-117-370-11	CERAMIC CHIP	10uF		10V
					(RV777D)	C573	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
C346	1-124-779-00	ELECT CHIP	10uF	20%	16V	C588	1-164-939-11	CERAMIC CHIP	0.0022uF	10%	50V
					(RV777D)						
C392	1-126-395-11	ELECT CHIP	22uF	20%	16V	C589	1-164-939-11	CERAMIC CHIP	0.0022uF	10%	50V
C393	1-164-947-11	CERAMIC CHIP	0.01uF		50V	C590	1-164-939-11	CERAMIC CHIP	0.0022uF	10%	50V
						C592	1-126-208-21	ELECT CHIP	47uF	20%	4V
C394	1-126-246-11	ELECT CHIP	220uF	20%	4V	C701	1-100-391-21	ELECT CHIP	180uF	20%	2.5V
C501	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C702	1-117-370-11	CERAMIC CHIP	10uF		10V
C502	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V						
C503	1-127-772-81	CERAMIC CHIP	0.033uF	10%	10V	C703	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C504	1-127-772-81	CERAMIC CHIP	0.033uF	10%	10V	C705	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
						C706	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C506	1-164-934-11	CERAMIC CHIP	330PF	10%	50V	C708	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C507	1-117-370-11	CERAMIC CHIP	10uF		10V	C709	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C508	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V						
C509	1-164-934-11	CERAMIC CHIP	330PF	10%	50V	C711	1-119-923-11	CERAMIC CHIP	0.047uF	10%	10V
C510	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V	C712	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
						C713	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C511	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C714	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C512	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C715	1-164-938-11	CERAMIC CHIP	0.0015uF	10%	50V
C513	1-117-370-11	CERAMIC CHIP	10uF		10V						
C514	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C716	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C515	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C717	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
						C718	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C516	1-164-939-11	CERAMIC CHIP	0.0022uF	10%	50V	C720	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C517	1-117-370-11	CERAMIC CHIP	10uF		10V	C721	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C518	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V						
C519	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C722	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C522	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C723	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
						C724	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C523	1-107-820-11	CERAMIC CHIP	0.1uF		16V	C725	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C524	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C726	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C525	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V						
C526	1-126-395-11	ELECT CHIP	22uF	20%	16V	C727	1-117-370-11	CERAMIC CHIP	10uF		10V
C527	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C728	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
						C729	1-117-370-11	CERAMIC CHIP	10uF		10V
C528	1-126-395-11	ELECT CHIP	22uF	20%	16V	C730	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C529	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C733	1-117-370-11	CERAMIC CHIP	10uF		10V
C531	1-119-923-11	CERAMIC CHIP	0.047uF	10%	10V						
C532	1-117-370-11	CERAMIC CHIP	10uF		10V	C734	1-117-370-11	CERAMIC CHIP	10uF		10V
C533	1-164-939-11	CERAMIC CHIP	0.0022uF	10%	50V	C740	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
						C741	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C534	1-107-819-11	CERAMIC CHIP	0.022uF	10%	16V	C742	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C535	1-164-939-11	CERAMIC CHIP	0.0022uF	10%	50V	C743	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C540	1-117-370-11	CERAMIC CHIP	10uF		10V						
C543	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C744	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
						C745	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
						C752	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V

HCD-RV777D/RV888D/RV999D

DMB07

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C760	1-164-943-11	CERAMIC CHIP	0.01uF 10% 16V			< DIODE >	
C761	1-164-943-11	CERAMIC CHIP	0.01uF 10% 16V				
C762	1-164-943-11	CERAMIC CHIP	0.01uF 10% 16V	D202	8-719-988-61	DIODE 1SS355TE-17	
C763	1-164-943-11	CERAMIC CHIP	0.01uF 10% 16V	D392	8-719-988-61	DIODE 1SS355TE-17	
C764	1-164-943-11	CERAMIC CHIP	0.01uF 10% 16V	D393	8-719-988-61	DIODE 1SS355TE-17	
				D394	8-719-988-61	DIODE 1SS355TE-17	
C765	1-164-943-11	CERAMIC CHIP	0.01uF 10% 16V	D901	8-719-988-61	DIODE 1SS355TE-17	
C766	1-164-874-11	CERAMIC CHIP	100PF 5% 50V				
C767	1-164-943-11	CERAMIC CHIP	0.01uF 10% 16V	D1303	8-719-988-61	DIODE 1SS355TE-17	
C768	1-164-943-11	CERAMIC CHIP	0.01uF 10% 16V	D1304	8-719-988-61	DIODE 1SS355TE-17	
C769	1-164-943-11	CERAMIC CHIP	0.01uF 10% 16V			< FERRITE BEAD >	
C770	1-164-943-11	CERAMIC CHIP	0.01uF 10% 16V	FB105	1-469-324-21	FERRITE, EMI (SMD) (2012)	
C771	1-119-923-11	CERAMIC CHIP	0.047uF 10% 10V	FB902	1-500-284-21	INDUCTOR, FERRITE BEAD	
C772	1-164-943-11	CERAMIC CHIP	0.01uF 10% 16V	FB903	1-500-284-21	INDUCTOR, FERRITE BEAD	
C773	1-125-891-11	CERAMIC CHIP	0.47uF 10% 10V			< FILTER >	
C774	1-164-941-11	CERAMIC CHIP	0.0047uF 10% 16V	FL101	1-234-177-21	FILTER, CHIP EMI	
C775	1-164-943-11	CERAMIC CHIP	0.01uF 10% 16V	FL203	1-234-177-21	FILTER, CHIP EMI	
C776	1-164-943-11	CERAMIC CHIP	0.01uF 10% 16V	FL204	1-234-177-21	FILTER, CHIP EMI	
C777	1-164-943-11	CERAMIC CHIP	0.01uF 10% 16V	FL205	1-234-177-21	FILTER, CHIP EMI	
C778	1-164-943-11	CERAMIC CHIP	0.01uF 10% 16V	FL206	1-234-177-21	FILTER, CHIP EMI	
C779	1-117-370-11	CERAMIC CHIP	10uF 10V				
C780	1-117-370-11	CERAMIC CHIP	10uF 10V	FL302	1-234-117-21	FILTER, CHIP EMI	
C781	1-165-643-21	ELECT CHIP	150uF 20% 4V	FL303	1-234-117-21	FILTER, CHIP EMI	
C782	1-164-938-11	CERAMIC CHIP	0.0015uF 10% 50V	FL501	1-234-177-21	FILTER, CHIP EMI	
C783	1-164-938-11	CERAMIC CHIP	0.0015uF 10% 50V	FL502	1-234-177-21	FILTER, CHIP EMI	
C901	1-126-209-11	ELECT CHIP	100uF 20% 4V	FL701	1-234-177-21	FILTER, CHIP EMI	
C902	1-164-943-11	CERAMIC CHIP	0.01uF 10% 16V	FL702	1-234-177-21	FILTER, CHIP EMI	
C903	1-126-209-11	ELECT CHIP	100uF 20% 4V	FL703	1-234-177-21	FILTER, CHIP EMI	
C904	1-164-943-11	CERAMIC CHIP	0.01uF 10% 16V	FL705	1-234-177-21	FILTER, CHIP EMI	
C905	1-164-943-11	CERAMIC CHIP	0.01uF 10% 16V	FL706	1-234-177-21	FILTER, CHIP EMI	
C906	1-164-943-11	CERAMIC CHIP	0.01uF 10% 16V	FL901	1-234-177-21	FILTER, CHIP EMI	
C907	1-164-943-11	CERAMIC CHIP	0.01uF 10% 16V	FL903	1-234-177-21	FILTER, CHIP EMI	
C908	1-164-874-11	CERAMIC CHIP	100PF 5% 50V	FL908	1-234-177-21	FILTER, CHIP EMI	
C909	1-164-874-11	CERAMIC CHIP	100PF 5% 50V			< TRANSISTOR >	
C910	1-164-943-11	CERAMIC CHIP	0.01uF 10% 16V	IC111	6-550-554-01	TRANSISTOR UM6K1NL02TN	
C913	1-127-772-81	CERAMIC CHIP	0.033uF 10% 10V			< IC >	
C914	1-117-745-81	CERAMIC CHIP	7PF 16V	IC203	6-704-069-01	IC MT48LC4M32B2P-6-Y15W	
C915	1-117-745-81	CERAMIC CHIP	7PF 16V	* IC204	6-703-671-01	IC BR9040F-WE2	
C916	1-126-209-11	ELECT CHIP	100uF 20% 4V	IC206	6-804-626-01	IC MBM29PL32BM90TN-GY0402	
C917	1-164-943-11	CERAMIC CHIP	0.01uF 10% 16V	IC207	6-704-630-01	IC ZIVA5X-C2F	
C918	1-164-943-11	CERAMIC CHIP	0.01uF 10% 16V	IC211	6-700-398-01	IC uPC2918T-E1	
C924	1-164-943-11	CERAMIC CHIP	0.01uF 10% 16V	IC231	8-759-549-21	IC SN74LV573APWR	
C925	1-126-395-11	ELECT CHIP	22uF 20% 16V	IC232	8-759-549-21	IC SN74LV573APWR	
C926	1-126-246-11	ELECT CHIP	220uF 20% 4V	IC233	8-759-549-21	IC SN74LV573APWR	
C927	1-164-943-11	CERAMIC CHIP	0.01uF 10% 16V	IC252	8-759-680-48	IC TC7WH157FK(TE85R) (RV777D)	
C928	1-117-370-11	CERAMIC CHIP	10uF 10V	IC302	6-703-787-01	IC PCM1609KPTR (RV888D/RV999D)	
C1302	1-164-874-11	CERAMIC CHIP	100PF 5% 50V	IC331	6-703-788-01	IC PCM1751DBQR (RV777D)	
		< CONNECTOR >		IC392	8-759-583-47	IC uPC2933T-E2	
CN101	1-784-365-21	CONNECTOR, FFC/FPC 5P		IC501	6-702-157-01	IC FAN8035L	
CN102	1-815-954-21	PIN, CONNECTOR (PC BOARD) 13P		IC503	8-759-058-43	IC NJM3404AV(TE2)	
CN105	1-784-374-21	CONNECTOR, FFC/FPC 15P		IC509	8-752-408-73	IC CXD3068Q	
CN107	1-793-989-21	CONNECTOR, FFC/FPC 13P (RV777D)		IC701	6-703-552-01	IC TMC57929PGF-RDP	
CN107	1-784-382-21	CONNECTOR, FFC/FPC 25P (RV888D/RV999D)		IC703	8-759-058-43	IC NJM3404AV(TE2)	
CN202	1-784-364-21	CONNECTOR, FFC/FPC 4P		IC706	8-759-564-30	IC MSM51V18165B-60TSKR1	
CN501	1-778-957-11	CONNECTOR, FFC/FPC 29P		IC901	8-753-224-50	IC CXP973064-243R	
CN901	1-764-177-11	PIN, CONNECTOR (SMD) (1.5mm) 7P		IC902	8-759-649-48	IC SN74AHC1G32DCKR	

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
IC903	6-704-004-01	IC BR24L16F-WE2		R257	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
IC904	6-704-753-01	IC SN74AHC2G74HDCUR		R259	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
IC906	6-700-407-01	IC SM8707GV-G-E2		R260	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
IC907	8-759-583-47	IC uPC2933T-E2		R261	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
		< JUMPER RESISTOR >		R263	1-218-285-11	METAL CHIP 75 5%	1/10W
JW392	1-216-864-11	SHORT CHIP 0		R264	1-218-285-11	METAL CHIP 75 5%	1/10W
JW801	1-218-990-11	SHORT CHIP 0		R265	1-218-285-11	METAL CHIP 75 5%	1/10W
JW802	1-218-990-11	SHORT CHIP 0		R266	1-218-285-11	METAL CHIP 75 5%	1/10W
JW803	1-218-990-11	SHORT CHIP 0		R267	1-218-285-11	METAL CHIP 75 5%	1/10W
JW804	1-218-990-11	SHORT CHIP 0		R268	1-216-864-11	SHORT CHIP 0	
JW805	1-218-990-11	SHORT CHIP 0		R269	1-216-864-11	SHORT CHIP 0	
JW806	1-218-990-11	SHORT CHIP 0		R270	1-216-864-11	SHORT CHIP 0	
L103	1-216-295-11	SHORT CHIP 0		R271	1-216-809-11	METAL CHIP 100 5%	1/10W
L501	1-216-295-11	SHORT CHIP 0		R272	1-216-809-11	METAL CHIP 100 5%	1/10W
		< COIL >		R273	1-216-864-11	SHORT CHIP 0	
L704	1-412-031-11	INDUCTOR 47uH		R274	1-216-864-11	SHORT CHIP 0	
L901	1-412-031-11	INDUCTOR 47uH		R275	1-216-864-11	SHORT CHIP 0	
		< TRANSISTOR >		R276	1-216-864-11	SHORT CHIP 0	
Q202	8-729-929-26	TRANSISTOR DTC114TE		R277	1-216-864-11	SHORT CHIP 0	
Q901	8-729-929-26	TRANSISTOR DTC114TE		R278	1-218-285-11	METAL CHIP 75 5%	1/10W
		< RESISTOR >		R279	1-218-285-11	METAL CHIP 75 5%	1/10W
R10	1-216-801-11	METAL CHIP 22 5%	1/10W	R280	1-218-285-11	METAL CHIP 75 5%	1/10W
R11	1-216-801-11	METAL CHIP 22 5%	1/10W	R281	1-218-285-11	METAL CHIP 75 5%	1/10W
R12	1-216-801-11	METAL CHIP 22 5%	1/10W	R282	1-218-285-11	METAL CHIP 75 5%	1/10W
R13	1-216-801-11	METAL CHIP 22 5%	1/10W	R283	1-218-847-11	METAL CHIP 1K 0.5%	1/10W
R14	1-216-801-11	METAL CHIP 22 5%	1/10W	R284	1-218-829-11	METAL CHIP 180 0.5%	1/10W
R15	1-216-801-11	METAL CHIP 22 5%	1/10W	R288	1-216-864-11	SHORT CHIP 0 (RV777D)	
R213	1-218-939-11	RES-CHIP 68 5%	1/16W	R290	1-216-809-11	METAL CHIP 100 5%	1/10W
R215	1-216-864-11	SHORT CHIP 0		R291	1-216-809-11	METAL CHIP 100 5%	1/10W
R217	1-216-864-11	SHORT CHIP 0		R292	1-216-809-11	METAL CHIP 100 5%	1/10W
R218	1-216-864-11	SHORT CHIP 0 (RV777D)		R301	1-216-821-11	METAL CHIP 1K 5%	1/10W
R219	1-216-864-11	SHORT CHIP 0 (RV888D/RV999D)		R302	1-216-813-11	METAL CHIP 220 5%	1/10W (RV888D/RV999D)
R220	1-216-864-11	SHORT CHIP 0		R303	1-216-813-11	METAL CHIP 220 5%	1/10W (RV888D/RV999D)
R221	1-216-864-11	SHORT CHIP 0 (RV888D/RV999D)		R304	1-216-813-11	METAL CHIP 220 5%	1/10W (RV888D/RV999D)
R222	1-216-864-11	SHORT CHIP 0 (RV888D/RV999D)		R305	1-216-813-11	METAL CHIP 220 5%	1/10W (RV888D/RV999D)
R227	1-216-829-11	METAL CHIP 4.7K 5%	1/10W	R306	1-216-813-11	METAL CHIP 220 5%	1/10W (RV888D/RV999D)
R230	1-216-803-11	METAL CHIP 33 5%	1/10W	R307	1-216-813-11	METAL CHIP 220 5%	1/10W (RV888D/RV999D)
R231	1-216-803-11	METAL CHIP 33 5%	1/10W	R308	1-216-813-11	METAL CHIP 220 5%	1/10W
R232	1-216-803-11	METAL CHIP 33 5%	1/10W	R309	1-216-813-11	METAL CHIP 220 5%	1/10W
R234	1-216-833-11	METAL CHIP 10K 5%	1/10W	R310	1-216-809-11	METAL CHIP 100 5%	1/10W
R239	1-216-809-11	METAL CHIP 100 5%	1/10W (RV777D)	R311	1-216-809-11	METAL CHIP 100 5%	1/10W
R240	1-216-841-11	METAL CHIP 47K 5%	1/10W	R312	1-216-809-11	METAL CHIP 100 5%	1/10W
R241	1-216-864-11	SHORT CHIP 0		R313	1-216-833-11	METAL CHIP 10K 5%	1/10W (RV888D/RV999D)
R244	1-216-821-11	METAL CHIP 1K 5%	1/10W	R314	1-216-801-11	METAL CHIP 22 5%	1/10W (RV888D/RV999D)
R245	1-216-829-11	METAL CHIP 4.7K 5%	1/10W	R320	1-216-864-11	SHORT CHIP 0 (RV777D)	
R246	1-216-833-11	METAL CHIP 10K 5%	1/10W	R342	1-216-801-11	METAL CHIP 22 5%	1/10W (RV777D)
R247	1-216-821-11	METAL CHIP 1K 5%	1/10W	R367	1-216-864-11	SHORT CHIP 0	
R248	1-216-829-11	METAL CHIP 4.7K 5%	1/10W	R368	1-216-864-11	SHORT CHIP 0	
R250	1-216-864-11	SHORT CHIP 0		R369	1-216-864-11	SHORT CHIP 0	
R251	1-216-864-11	SHORT CHIP 0		R503	1-216-841-11	METAL CHIP 47K 5%	1/10W
R253	1-216-829-11	METAL CHIP 4.7K 5%	1/10W				
R254	1-216-829-11	METAL CHIP 4.7K 5%	1/10W				
R255	1-216-864-11	SHORT CHIP 0					

HCD-RV777D/RV888D/RV999D

DMB07

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R504	1-216-841-11	METAL CHIP	47K 5%	1/10W	R599	1-216-821-11	METAL CHIP 1K 5% 1/10W
R505	1-216-841-11	METAL CHIP	47K 5%	1/10W	R601	1-216-864-11	SHORT CHIP 0
R506	1-216-841-11	METAL CHIP	47K 5%	1/10W	R694	1-216-833-11	METAL CHIP 10K 5% 1/10W
R510	1-216-847-11	METAL CHIP	150K 5%	1/10W	R698	1-216-864-11	SHORT CHIP 0
R511	1-216-847-11	METAL CHIP	150K 5%	1/10W	R699	1-216-864-11	SHORT CHIP 0
R512	1-216-842-11	METAL CHIP	56K 5%	1/10W	R700	1-216-832-11	METAL CHIP 8.2K 5% 1/10W
R513	1-216-842-11	METAL CHIP	56K 5%	1/10W	R707	1-216-809-11	METAL CHIP 100 5% 1/10W
R514	1-216-833-11	METAL CHIP	10K 5%	1/10W	R708	1-216-853-11	METAL CHIP 470K 5% 1/10W
R515	1-216-833-11	METAL CHIP	10K 5%	1/10W	R709	1-216-847-11	METAL CHIP 150K 5% 1/10W
R516	1-216-829-11	METAL CHIP	4.7K 5%	1/10W	R710	1-216-833-11	METAL CHIP 10K 5% 1/10W
R517	1-216-825-11	METAL CHIP	2.2K 5%	1/10W	R711	1-216-825-11	METAL CHIP 2.2K 5% 1/10W
R519	1-216-845-11	METAL CHIP	100K 5%	1/10W	R712	1-216-833-11	METAL CHIP 10K 5% 1/10W
R520	1-216-833-11	METAL CHIP	10K 5%	1/10W	R713	1-216-833-11	METAL CHIP 10K 5% 1/10W
R521	1-216-845-11	METAL CHIP	100K 5%	1/10W	R714	1-216-833-11	METAL CHIP 10K 5% 1/10W
R522	1-216-829-11	METAL CHIP	4.7K 5%	1/10W	R715	1-216-833-11	METAL CHIP 10K 5% 1/10W
R523	1-216-833-11	METAL CHIP	10K 5%	1/10W	R716	1-216-809-11	METAL CHIP 100 5% 1/10W
R524	1-216-833-11	METAL CHIP	10K 5%	1/10W	R717	1-216-845-11	METAL CHIP 100K 5% 1/10W
R525	1-216-833-11	METAL CHIP	10K 5%	1/10W	R718	1-216-833-11	METAL CHIP 10K 5% 1/10W
R527	1-216-825-11	METAL CHIP	2.2K 5%	1/10W	R719	1-216-821-11	METAL CHIP 1K 5% 1/10W
R529	1-216-839-11	METAL CHIP	33K 5%	1/10W	R720	1-216-821-11	METAL CHIP 1K 5% 1/10W
R530	1-216-842-11	METAL CHIP	56K 5%	1/10W	R721	1-216-839-11	METAL CHIP 33K 5% 1/10W
R533	1-216-839-11	METAL CHIP	33K 5%	1/10W	R724	1-216-821-11	METAL CHIP 1K 5% 1/10W
R534	1-216-842-11	METAL CHIP	56K 5%	1/10W	R725	1-216-824-11	METAL CHIP 1.8K 5% 1/10W
R536	1-216-833-11	METAL CHIP	10K 5%	1/10W	R726	1-216-845-11	METAL CHIP 100K 5% 1/10W
R537	1-216-843-11	METAL CHIP	68K 5%	1/10W	R727	1-216-827-11	METAL CHIP 3.3K 5% 1/10W
R545	1-216-833-11	METAL CHIP	10K 5%	1/10W	R728	1-216-833-11	METAL CHIP 10K 5% 1/10W
R548	1-216-833-11	METAL CHIP	10K 5%	1/10W	R730	1-216-801-11	METAL CHIP 22 5% 1/10W
R550	1-216-821-11	METAL CHIP	1K 5%	1/10W	R731	1-216-801-11	METAL CHIP 22 5% 1/10W
R551	1-216-821-11	METAL CHIP	1K 5%	1/10W	R732	1-216-833-11	METAL CHIP 10K 5% 1/10W
R552	1-216-821-11	METAL CHIP	1K 5%	1/10W	R733	1-216-833-11	METAL CHIP 10K 5% 1/10W
R555	1-216-864-11	SHORT CHIP	0		R734	1-216-833-11	METAL CHIP 10K 5% 1/10W
R558	1-216-841-11	METAL CHIP	47K 5%	1/10W	R735	1-216-833-11	METAL CHIP 10K 5% 1/10W
R559	1-216-821-11	METAL CHIP	1K 5%	1/10W	R736	1-216-833-11	METAL CHIP 10K 5% 1/10W
R560	1-216-821-11	METAL CHIP	1K 5%	1/10W	R737	1-216-833-11	METAL CHIP 10K 5% 1/10W
R561	1-216-821-11	METAL CHIP	1K 5%	1/10W	R738	1-216-833-11	METAL CHIP 10K 5% 1/10W
R562	1-216-821-11	METAL CHIP	1K 5%	1/10W	R741	1-216-801-11	METAL CHIP 22 5% 1/10W
R563	1-216-821-11	METAL CHIP	1K 5%	1/10W	R742	1-216-801-11	METAL CHIP 22 5% 1/10W
R564	1-216-821-11	METAL CHIP	1K 5%	1/10W	R743	1-216-801-11	METAL CHIP 22 5% 1/10W
R565	1-216-821-11	METAL CHIP	1K 5%	1/10W	R744	1-216-801-11	METAL CHIP 22 5% 1/10W
R566	1-216-833-11	METAL CHIP	10K 5%	1/10W	R745	1-216-841-11	METAL CHIP 47K 5% 1/10W
R567	1-216-827-11	METAL CHIP	3.3K 5%	1/10W	R746	1-216-841-11	METAL CHIP 47K 5% 1/10W
R568	1-216-857-11	METAL CHIP	1M 5%	1/10W	R747	1-216-839-11	METAL CHIP 33K 5% 1/10W
R571	1-216-857-11	METAL CHIP	1M 5%	1/10W	R748	1-216-839-11	METAL CHIP 33K 5% 1/10W
R572	1-216-853-11	METAL CHIP	470K 5%	1/10W	R750	1-216-833-11	METAL CHIP 10K 5% 1/10W
R573	1-216-833-11	METAL CHIP	10K 5%	1/10W	R751	1-216-864-11	SHORT CHIP 0
R577	1-216-864-11	SHORT CHIP	0		R758	1-216-864-11	SHORT CHIP 0
R579	1-216-832-11	METAL CHIP	8.2K 5%	1/10W	R760	1-216-864-11	SHORT CHIP 0
R580	1-216-839-11	METAL CHIP	33K 5%	1/10W	R762	1-216-837-11	METAL CHIP 22K 5% 1/10W
R581	1-216-834-11	METAL CHIP	12K 5%	1/10W	R763	1-216-832-11	METAL CHIP 8.2K 5% 1/10W
R582	1-216-864-11	SHORT CHIP	0		R764	1-216-857-11	METAL CHIP 1M 5% 1/10W
R584	1-216-839-11	METAL CHIP	33K 5%	1/10W	R765	1-216-837-11	METAL CHIP 22K 5% 1/10W
R586	1-218-747-11	METAL CHIP	200K 0.5%	1/10W	R767	1-216-841-11	METAL CHIP 47K 5% 1/10W
R587	1-216-864-11	SHORT CHIP	0		R769	1-216-825-11	METAL CHIP 2.2K 5% 1/10W
R588	1-216-833-11	METAL CHIP	10K 5%	1/10W	R776	1-216-864-11	SHORT CHIP 0
R589	1-216-833-11	METAL CHIP	10K 5%	1/10W	R777	1-216-864-11	SHORT CHIP 0
R591	1-216-864-11	SHORT CHIP	0		R778	1-216-845-11	METAL CHIP 100K 5% 1/10W
R593	1-216-845-11	METAL CHIP	100K 5%	1/10W	R785	1-216-833-11	METAL CHIP 10K 5% 1/10W
R594	1-216-864-11	SHORT CHIP	0		R786	1-216-845-11	METAL CHIP 100K 5% 1/10W

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R787	1-216-845-11	METAL CHIP	100K 5% 1/10W	R9998	1-216-864-11	SHORT CHIP	0
R788	1-216-845-11	METAL CHIP	100K 5% 1/10W	R9999	1-216-864-11	SHORT CHIP	0
R789	1-216-845-11	METAL CHIP	100K 5% 1/10W	< NETWORK RESISTOR >			
R799	1-216-864-11	SHORT CHIP	0	RB202	1-234-523-21	RES, CHIP NETWORK	0 (3216)
R805	1-216-864-11	SHORT CHIP	0	RB203	1-234-523-21	RES, CHIP NETWORK	0 (3216)
R901	1-216-801-11	METAL CHIP	22 5% 1/10W	RB204	1-234-523-21	RES, CHIP NETWORK	0 (3216)
R902	1-216-801-11	METAL CHIP	22 5% 1/10W	< VIBRATOR >			
R904	1-216-833-11	METAL CHIP	10K 5% 1/10W	X901	1-795-375-11	VIBRATOR, CERAMIC (20MHz)	
R905	1-216-801-11	METAL CHIP	22 5% 1/10W	X902	1-795-630-11	VIBRATOR, CRYSTAL (27MHz)	
R906	1-216-801-11	METAL CHIP	22 5% 1/10W	*****			
R907	1-216-801-11	METAL CHIP	22 5% 1/10W		1-687-135-12	DRIVER BOARD	
R908	1-216-833-11	METAL CHIP	10K 5% 1/10W	*****			
R911	1-216-833-11	METAL CHIP	10K 5% 1/10W	< CAPACITOR >			
R912	1-216-833-11	METAL CHIP	10K 5% 1/10W	C715	1-126-933-11	ELECT	100uF 20% 16V
R913	1-216-833-11	METAL CHIP	10K 5% 1/10W	C731	1-126-964-11	ELECT	10uF 20% 50V
R915	1-216-809-11	METAL CHIP	100 5% 1/10W	C735	1-164-159-21	CERAMIC	0.1uF 50V
R916	1-216-821-11	METAL CHIP	1K 5% 1/10W	C736	1-164-159-21	CERAMIC	0.1uF 50V
R917	1-216-821-11	METAL CHIP	1K 5% 1/10W	C737	1-164-159-21	CERAMIC	0.1uF 50V
R918	1-216-801-11	METAL CHIP	22 5% 1/10W	C741	1-162-306-11	CERAMIC	0.01uF 20% 16V
R920	1-216-809-11	METAL CHIP	100 5% 1/10W	C751	1-162-306-11	CERAMIC	0.01uF 20% 16V
R921	1-216-809-11	METAL CHIP	100 5% 1/10W	C752	1-164-159-21	CERAMIC	0.1uF 50V
R922	1-216-801-11	METAL CHIP	22 5% 1/10W	< CONNECTOR >			
R923	1-216-813-11	METAL CHIP	220 5% 1/10W	CN701	1-785-338-11	PIN, CONNECTOR (LIGHT ANGLE) 12P	
R925	1-216-809-11	METAL CHIP	100 5% 1/10W	CN702	1-784-766-11	CONNECTOR, FFC 5P	
R926	1-216-809-11	METAL CHIP	100 5% 1/10W	* CN703	1-564-720-11	PIN, CONNECTOR (SMALL TYPE) 4P	
R927	1-216-857-11	METAL CHIP	1M 5% 1/10W	CN704	1-785-328-11	PIN, CONNECTOR (LIGHT ANGLE) 2P	
R928	1-216-809-11	METAL CHIP	100 5% 1/10W	< DIODE >			
R929	1-216-809-11	METAL CHIP	100 5% 1/10W	D701	8-719-921-42	DIODE MTZJ-5.1A	
R930	1-216-809-11	METAL CHIP	100 5% 1/10W	D711	8-719-109-69	DIODE RD3.6ESB2	
R931	1-216-801-11	METAL CHIP	22 5% 1/10W	< IC >			
R932	1-216-801-11	METAL CHIP	22 5% 1/10W	IC701	8-759-598-69	IC BA6956AN	
R933	1-216-801-11	METAL CHIP	22 5% 1/10W	IC712	8-759-598-69	IC BA6956AN	
R935	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	< TRANSISTOR >			
R936	1-216-809-11	METAL CHIP	100 5% 1/10W	Q731	8-729-029-66	TRANSISTOR DTC114ESA	
R938	1-216-833-11	METAL CHIP	10K 5% 1/10W	< RESISTOR >			
R940	1-216-809-11	METAL CHIP	100 5% 1/10W	R701	1-249-413-11	CARBON	470 5% 1/4W
R942	1-216-809-11	METAL CHIP	100 5% 1/10W	R702	1-247-807-31	CARBON	100 5% 1/4W
R943	1-216-809-11	METAL CHIP	100 5% 1/10W	R711	1-249-417-11	CARBON	1K 5% 1/4W
R958	1-216-801-11	METAL CHIP	22 5% 1/10W	R712	1-249-425-11	CARBON	4.7K 5% 1/4W
R962	1-216-833-11	METAL CHIP	10K 5% 1/10W	R713	1-249-433-11	CARBON	22K 5% 1/4W
R964	1-216-833-11	METAL CHIP	10K 5% 1/10W	R721	1-249-425-11	CARBON	4.7K 5% 1/4W
R970	1-216-864-11	SHORT CHIP	0	R722	1-249-425-11	CARBON	4.7K 5% 1/4W
R974	1-216-864-11	SHORT CHIP	0	R723	1-249-425-11	CARBON	4.7K 5% 1/4W
R975	1-216-833-11	METAL CHIP	10K 5% 1/10W	R731	1-247-807-31	CARBON	100 5% 1/4W
R978	1-216-833-11	METAL CHIP	10K 5% 1/10W	R732	1-249-429-11	CARBON	10K 5% 1/4W
R984	1-216-833-11	METAL CHIP	10K 5% 1/10W	R733	1-249-417-11	CARBON	1K 5% 1/4W
R988	1-216-864-11	SHORT CHIP	0	R734	1-249-430-11	CARBON	12K 5% 1/4W
R990	1-216-864-11	SHORT CHIP	0	R735	1-247-807-31	CARBON	100 5% 1/4W
R994	1-216-864-11	SHORT CHIP	0	R751	1-249-425-11	CARBON	4.7K 5% 1/4W
R995	1-216-864-11	SHORT CHIP	0	*****			
R996	1-216-864-11	SHORT CHIP	0				
R997	1-216-864-11	SHORT CHIP	0				
R998	1-216-864-11	SHORT CHIP	0				
R1000	1-216-829-11	METAL CHIP	4.7K 5% 1/10W				
R1001	1-216-864-11	SHORT CHIP	0 (RV777D)				
R1302	1-216-864-11	SHORT CHIP	0				
R9980	1-216-864-11	SHORT CHIP	0				
R9981	1-216-864-11	SHORT CHIP	0				

HCD-RV777D/RV888D/RV999D

FRONT AMP

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
A-1053-978-A		FRONT AMP BOARD, COMPLETE (RV888D)		D281	8-719-991-33	DIODE 1SS133T-77	
A-4751-854-A		FRONT AMP BOARD, COMPLETE (RV999D)		D291	8-719-991-33	DIODE 1SS133T-77	
A-4751-856-A		FRONT AMP BOARD, COMPLETE (RV777D)				< IC >	

7-685-872-09		SCREW +BVTT 3X8 (S)		IC201	6-705-853-01	IC STK403-120	
		< CAPACITOR >				< COIL >	
C201	1-126-964-11	ELECT	10uF 20% 50V	L281	1-422-009-13	COIL, AIR-CORE	
C202	1-162-302-11	CERAMIC	0.0022uF 20% 16V	L282	1-422-009-13	COIL, AIR-CORE	
C203	1-162-286-31	CERAMIC	220PF 10% 50V			< TRANSISTOR >	
C204	1-126-967-11	ELECT	47uF 20% 50V				
			(RV777D)	Q201	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
C204	1-126-968-11	ELECT	100uF 20% 50V	Q216	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
			(RV888D/RV999D)	Q217	8-729-119-78	TRANSISTOR 2SC2785-HFE	
C206	1-136-495-11	FILM	0.068uF 5% 50V	Q221	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
C207	1-136-495-11	FILM	0.068uF 5% 50V	Q222	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
C208	1-128-576-11	ELECT	100uF 20% 63V				
C216	1-162-306-11	CERAMIC	0.01uF 20% 16V	Q251	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
C221	1-126-971-11	ELECT	470uF 20% 50V	Q281	8-729-026-39	TRANSISTOR 2SA933AS-QT	
				Q282	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
C251	1-126-964-11	ELECT	10uF 20% 50V			< RESISTOR >	
C252	1-162-302-11	CERAMIC	0.0022uF 20% 16V	R201	1-247-831-11	CARBON 1K 5% 1/4W	
C253	1-162-286-31	CERAMIC	220PF 10% 50V	R202	1-247-871-11	CARBON 47K 5% 1/4W	
C254	1-126-967-11	ELECT	47uF 20% 50V	R203	1-247-807-31	CARBON 100 5% 1/4W	
			(RV777D)				(RV888D/RV999D)
C254	1-126-968-11	ELECT	100uF 20% 50V	R203	1-249-409-11	CARBON 220 5% 1/4W	
			(RV888D/RV999D)				(RV777D)
C256	1-136-495-11	FILM	0.068uF 5% 50V	R204	1-247-871-11	CARBON 47K 5% 1/4W	
C257	1-136-495-11	FILM	0.068uF 5% 50V				
C258	1-128-576-11	ELECT	100uF 20% 63V	△R205	1-245-235-21	METAL 0.22 10% 2W F	
C271	1-135-928-21	ELECT	2200uF 20% 63V	△R206	1-245-235-21	METAL 0.22 10% 2W F	
C272	1-135-928-21	ELECT	2200uF 20% 63V	R207	1-247-831-11	CARBON 1K 5% 1/4W	
				R208	1-249-431-11	CARBON 15K 5% 1/4W	
C273	1-130-777-00	MYLAR	0.1uF 5% 100V	R209	1-247-879-11	CARBON 100K 5% 1/4W	
C274	1-130-777-00	MYLAR	0.1uF 5% 100V				
C281	1-136-497-81	FILM	0.1uF 5% 50V	R210	1-260-076-11	CARBON 10 5% 1/2W F	
C282	1-136-497-81	FILM	0.1uF 5% 50V	△R211	1-212-881-11	FUSIBLE 100 5% 1/4W F	
C283	1-136-497-81	FILM	0.1uF 5% 50V	R213	1-247-831-11	CARBON 1K 5% 1/4W	
				R214	1-247-831-11	CARBON 1K 5% 1/4W	
C284	1-136-497-81	FILM	0.1uF 5% 50V	R215	1-247-863-11	CARBON 22K 5% 1/4W	
C285	1-162-306-11	CERAMIC	0.01uF 20% 16V				
C286	1-162-306-11	CERAMIC	0.01uF 20% 16V	R216	1-247-879-11	CARBON 100K 5% 1/4W	
C921	1-126-956-11	ELECT	0.1uF 20% 50V	R217	1-249-429-11	CARBON 10K 5% 1/4W	
C922	1-126-767-11	ELECT	1000uF 20% 16V	R218	1-247-871-11	CARBON 47K 5% 1/4W	
				△R219	1-202-972-61	FUSIBLE 1 5% 1/4W F	
C923	1-126-956-11	ELECT	0.1uF 20% 50V	△R220	1-202-972-61	FUSIBLE 1 5% 1/4W F	
C924	1-126-767-11	ELECT	1000uF 20% 16V				
C925	1-126-956-11	ELECT	0.1uF 20% 50V	R221	1-249-421-11	CARBON 2.2K 5% 1/4W	
C926	1-126-933-11	ELECT	100uF 20% 16V	R222	1-247-863-11	CARBON 22K 5% 1/4W	
C933	1-126-956-11	ELECT	0.1uF 20% 50V	R223	1-249-429-11	CARBON 10K 5% 1/4W	
				R224	1-249-429-11	CARBON 10K 5% 1/4W	
C934	1-126-925-11	ELECT	470uF 20% 10V	R225	1-249-439-11	CARBON 68K 5% 1/4W	
C937	1-126-956-11	ELECT	0.1uF 20% 50V				
C938	1-126-925-11	ELECT	470uF 20% 10V	R226	1-249-426-11	CARBON 5.6K 5% 1/4W	
				R239	1-247-871-11	CARBON 47K 5% 1/4W	
		< CONNECTOR >		R240	1-247-873-11	CARBON 56K 5% 1/4W	
CN201	1-573-829-11	CONNECTOR, BOARD TO BOARD 15P		R251	1-247-831-11	CARBON 1K 5% 1/4W	
CN206	1-573-829-11	CONNECTOR, BOARD TO BOARD 15P		R252	1-247-871-11	CARBON 47K 5% 1/4W	
		< DIODE >					
D201	8-719-991-33	DIODE 1SS133T-77		R253	1-247-807-31	CARBON 100 5% 1/4W	
D251	8-719-991-33	DIODE 1SS133T-77					(RV888D/RV999D)
D271	8-719-510-68	DIODE D5SBA204101		R253	1-249-409-11	CARBON 220 5% 1/4W	
							(RV777D)
				R254	1-247-871-11	CARBON 47K 5% 1/4W	

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

Ref. No.	Part No.	Description	Value	Tolerance	Power	Temp	Remark
△ R255	1-245-235-21	METAL	0.22	10%	2W	F	
△ R256	1-245-235-21	METAL	0.22	10%	2W	F	
R257	1-247-831-11	CARBON	1K	5%	1/4W		
R258	1-249-431-11	CARBON	15K	5%	1/4W		
R259	1-247-879-11	CARBON	100K	5%	1/4W		
R260	1-260-076-11	CARBON	10	5%	1/2W	F	
△ R261	1-212-881-11	FUSIBLE	100	5%	1/4W	F	
R271	1-247-879-11	CARBON	100K	5%	1/4W		
R272	1-247-879-11	CARBON	100K	5%	1/4W		
△ R280	1-216-456-00	METAL OXIDE	820	5%	2W	F	(RV888D/RV999D)
△ R280	1-216-457-00	METAL OXIDE	1.2K	5%	2W	F	(RV777D)
R281	1-260-076-11	CARBON	10	5%	1/2W	F	
R282	1-260-076-11	CARBON	10	5%	1/2W	F	
R283	1-260-076-11	CARBON	10	5%	1/2W	F	
R284	1-260-076-11	CARBON	10	5%	1/2W	F	
R285	1-247-871-11	CARBON	47K	5%	1/4W		
R286	1-247-871-11	CARBON	47K	5%	1/4W		
R287	1-249-429-11	CARBON	10K	5%	1/4W		
R288	1-247-871-11	CARBON	47K	5%	1/4W		
R289	1-249-429-11	CARBON	10K	5%	1/4W		
R290	1-249-429-11	CARBON	10K	5%	1/4W		
R924	1-247-831-11	CARBON	1K	5%	1/4W		
< RELAY >							
RY281	1-515-920-11	RELAY					
< THERMISTOR >							
TH201	1-807-796-11	THERMISTOR					
< TERMINAL BOARD >							
TM201	1-694-677-12	TERMINAL BOARD (4P) (FRONT SPEAKER)					

HP BOARD							

< JUMPER RESISTOR >							
C500	1-216-864-11	SHORT CHIP	0				
< CONNECTOR >							
* CN503	1-564-720-11	PIN, CONNECTOR (SMALL TYPE) 4P					
< JACK >							
J502	1-794-702-11	JACK, HEADPHONE (PHONES)					
< RESISTOR >							
R531	1-260-083-11	CARBON	47	5%	1/2W	F	
R532	1-260-083-11	CARBON	47	5%	1/2W	F	

Ref. No.	Part No.	Description	Value	Tolerance	Power	Temp	Remark
	A-1053-972-A	JACK BOARD, COMPLETE (RV999D:E51,AR,MX)					
	A-4751-845-A	JACK BOARD, COMPLETE (EXCEPT RV999D:E51,AR,MX)					

< CAPACITOR >							
C501	1-162-964-11	CERAMIC CHIP	0.001uF	10%		50V	
C502	1-162-964-11	CERAMIC CHIP	0.001uF	10%		50V	
C503	1-162-953-11	CERAMIC CHIP	100PF	5%		50V	
C504	1-164-360-11	CERAMIC CHIP	0.1uF			16V	
C507	1-164-360-11	CERAMIC CHIP	0.1uF			16V	
C508	1-164-360-11	CERAMIC CHIP	0.1uF			16V	
C509	1-107-726-11	CERAMIC CHIP	0.01uF	10%		16V	
C510	1-115-868-11	ELECT	0.22uF	20%		50V	
C511	1-162-964-11	CERAMIC CHIP	0.001uF	10%		50V	
C512	1-162-949-11	CERAMIC CHIP	47PF	5%		50V	
C513	1-162-968-11	CERAMIC CHIP	0.0047uF	10%		50V	
C514	1-115-867-11	ELECT	0.1uF	20%		50V	
C515	1-115-872-11	ELECT	2.2uF	20%		50V	
C516	1-162-949-11	CERAMIC CHIP	47PF	5%		50V	
C517	1-162-955-11	CERAMIC CHIP	150PF	5%		50V	
C518	1-115-872-11	ELECT	2.2uF	20%		50V	
C519	1-126-791-11	ELECT	10uF	20%		35V	
C520	1-126-786-11	ELECT	47uF	20%		16V	
C521	1-126-786-11	ELECT	47uF	20%		16V	
C522	1-115-871-11	ELECT	1uF	20%		50V	(EXCEPT RV999D:E51,AR,MX)
C523	1-162-969-11	CERAMIC CHIP	0.0068uF	10%		25V	(EXCEPT RV999D:E51,AR,MX)
C524	1-162-964-11	CERAMIC CHIP	0.001uF	10%		50V	(EXCEPT RV999D:E51,AR,MX)
C525	1-110-563-11	CERAMIC CHIP	0.068uF	10%		16V	(EXCEPT RV999D:E51,AR,MX)
C526	1-115-870-11	ELECT	0.47uF	20%		50V	(EXCEPT RV999D:E51,AR,MX)
C527	1-115-870-11	ELECT	0.47uF	20%		50V	(EXCEPT RV999D:E51,AR,MX)
C528	1-131-664-11	CERAMIC CHIP	0.15uF	10%		10V	(EXCEPT RV999D:E51,AR,MX)
C529	1-162-964-11	CERAMIC CHIP	0.001uF	10%		50V	(EXCEPT RV999D:E51,AR,MX)
C530	1-162-969-11	CERAMIC CHIP	0.0068uF	10%		25V	(EXCEPT RV999D:E51,AR,MX)
C531	1-110-563-11	CERAMIC CHIP	0.068uF	10%		16V	(EXCEPT RV999D:E51,AR,MX)
C532	1-126-785-11	ELECT	47uF	20%		10V	(EXCEPT RV999D:E51,AR,MX)
C533	1-126-785-11	ELECT	47uF	20%		10V	(EXCEPT RV999D:E51,AR,MX)
C534	1-115-871-11	ELECT	1uF	20%		50V	(EXCEPT RV999D:E51,AR,MX)
C535	1-164-227-11	CERAMIC CHIP	0.022uF	10%		25V	(EXCEPT RV999D:E51,AR,MX)
C536	1-115-872-11	ELECT	2.2uF	20%		50V	(EXCEPT RV999D:E51,AR,MX)
< DIODE >							
D501	8-719-988-61	DIODE 1SS355TE-17					
D502	8-719-988-61	DIODE 1SS355TE-17					
D505	8-719-988-61	DIODE 1SS355TE-17					
D506	8-719-988-61	DIODE 1SS355TE-17					

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HCD-RV777D/RV888D/RV999D

JACK **MAIN**

Ref. No.	Part No.	Description	Remark
D507	8-719-988-61	DIODE 1SS355TE-17	
D508	8-719-988-61	DIODE 1SS355TE-17	
D1201	8-719-069-54	DIODE UDZSTE-175.1B (EXCEPT RV999D:E51,AR,MX)	
< GROUND TERMINAL BOARD >			
EPT501	1-537-771-21	TERMINAL BOARD, GROUND	
EPT502	1-537-771-21	TERMINAL BOARD, GROUND	
< FERRITE BEAD >			
FB505	1-469-869-21	INDUCTOR (EMI FERRITE) (2012)	
< IC >			
IC501	8-759-710-97	IC NJM4565M-D	
IC502	8-759-496-41	IC M65850FP-E1 (EXCEPT RV999D:E51,AR,MX)	
< JACK >			
J501	1-764-592-11	JACK, 3P (GAME INPUT)	
J503	1-770-226-11	JACK (LARGE TYPE) (MIC)	
< RESISTOR >			
R501	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R502	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R503	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R504	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R505	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R506	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R507	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R508	1-216-835-11	METAL CHIP 15K 5% 1/10W	
R509	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R510	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R511	1-216-809-11	METAL CHIP 100 5% 1/10W	
R512	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R513	1-216-847-11	METAL CHIP 150K 5% 1/10W	
R514	1-216-809-11	METAL CHIP 100 5% 1/10W	
R515	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R516	1-216-813-11	METAL CHIP 220 5% 1/10W	
R517	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R518	1-216-830-11	METAL CHIP 5.6K 5% 1/10W	
R519	1-216-837-11	METAL CHIP 22K 5% 1/10W (EXCEPT RV999D:E51,AR,MX)	
R520	1-216-837-11	METAL CHIP 22K 5% 1/10W (EXCEPT RV999D:E51,AR,MX)	
R521	1-216-837-11	METAL CHIP 22K 5% 1/10W (EXCEPT RV999D:E51,AR,MX)	
R522	1-216-841-11	METAL CHIP 47K 5% 1/10W (EXCEPT RV999D:E51,AR,MX)	
R523	1-216-837-11	METAL CHIP 22K 5% 1/10W (EXCEPT RV999D:E51,AR,MX)	
R524	1-216-837-11	METAL CHIP 22K 5% 1/10W (EXCEPT RV999D:E51,AR,MX)	
R525	1-216-837-11	METAL CHIP 22K 5% 1/10W (EXCEPT RV999D:E51,AR,MX)	
R526	1-216-846-11	METAL CHIP 120K 5% 1/10W (EXCEPT RV999D:E51,AR,MX)	
R527	1-216-814-11	METAL CHIP 270 5% 1/10W (EXCEPT RV999D:E51,AR,MX)	

Ref. No.	Part No.	Description	Remark
R528	1-216-835-11	METAL CHIP 15K 5% 1/10W (EXCEPT RV999D:E51,AR,MX)	
R529	1-216-835-11	METAL CHIP 15K 5% 1/10W (EXCEPT RV999D:E51,AR,MX)	
< VARIABLE RESISTOR >			
RV501	1-223-983-11	RES, VAR, CARBON 50K (MIC LEVEL)	
RV502	1-223-983-11	RES, VAR, CARBON 50K (ECHO LEVEL) (EXCEPT RV999D:E51,AR,MX)	

A-1053-866-A		MAIN BOARD, COMPLETE (RV999D:SP,MY,PH)	
A-1053-867-A		MAIN BOARD, COMPLETE (RV999D:EA)	
A-1053-868-A		MAIN BOARD, COMPLETE (RV999D:AUS)	
A-1053-869-A		MAIN BOARD, COMPLETE (RV999D:E51,AR,MX)	
A-1053-871-A		MAIN BOARD, COMPLETE (RV888D:SP,MY)	
A-1053-872-A		MAIN BOARD, COMPLETE (RV888D:EA)	
A-1053-873-A		MAIN BOARD, COMPLETE (RV888D:AUS)	
A-1053-875-A		MAIN BOARD, COMPLETE (RV777D:SP,MY,PH)	
A-1053-876-A		MAIN BOARD, COMPLETE (RV777D:EA)	
A-4751-800-A		MAIN BOARD, COMPLETE (RV999D:E3,E15)	
A-4751-804-A		MAIN BOARD, COMPLETE (RV888D:E3,E15)	
A-4751-806-A		MAIN BOARD, COMPLETE (RV777D:E3,E15) *****	
< CAPACITOR >			
C101	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C102	1-126-382-11	ELECT 100uF 20% 16V	
C103	1-104-658-11	ELECT 100uF 20% 10V	
C104	1-104-658-11	ELECT 100uF 20% 10V	
C105	1-104-658-11	ELECT 100uF 20% 10V	
C111	1-126-964-11	ELECT 10uF 20% 50V	
C112	1-126-961-11	ELECT 2.2uF 20% 50V	
C113	1-126-961-11	ELECT 2.2uF 20% 50V	
C114	1-126-961-11	ELECT 2.2uF 20% 50V	
C115	1-115-872-11	ELECT 2.2uF 20% 50V	
C117	1-126-961-11	ELECT 2.2uF 20% 50V	
C118	1-164-227-11	CERAMIC CHIP 0.022uF 10% 25V	
C119	1-164-227-11	CERAMIC CHIP 0.022uF 10% 25V	
C120	1-165-176-11	CERAMIC CHIP 0.047uF 10% 16V	
C121	1-126-964-11	ELECT 10uF 20% 50V	
C122	1-162-966-11	CERAMIC CHIP 0.0022uF 10% 50V	
C123	1-126-795-11	ELECT 10uF 20% 50V	
C124	1-137-194-81	FILM 0.47uF 5% 50V	
C125	1-137-194-81	FILM 0.47uF 5% 50V	
C126	1-115-871-11	ELECT 1uF 20% 50V	
C127	1-126-964-11	ELECT 10uF 20% 50V	
C132	1-115-871-11	ELECT 1uF 20% 50V	
C133	1-136-497-81	FILM 0.1uF 5% 50V (RV777D)	
C134	1-137-190-11	FILM 0.22uF 5% 50V (RV777D)	
C135	1-126-795-11	ELECT 10uF 20% 50V	
C136	1-136-161-00	FILM 0.047uF 5% 50V	
C137	1-126-964-11	ELECT 10uF 20% 50V	
C141	1-126-964-11	ELECT 10uF 20% 50V	
C142	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
C143	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C145	1-110-518-11	ELECT	10uF	20%	100V	C314	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C151	1-126-964-11	ELECT	10uF	20%	50V						(RV888D/RV999D)
C152	1-126-961-11	ELECT	2.2uF	20%	50V	C320	1-126-964-11	ELECT	10uF	20%	50V
C153	1-126-961-11	ELECT	2.2uF	20%	50V						(RV888D/RV999D)
C154	1-126-961-11	ELECT	2.2uF	20%	50V	C321	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
											(RV888D/RV999D)
C155	1-115-872-11	ELECT	2.2uF	20%	50V	C322	1-126-964-11	ELECT	10uF	20%	50V
C156	1-126-961-11	ELECT	2.2uF	20%	50V						(RV888D/RV999D)
C157	1-126-961-11	ELECT	2.2uF	20%	50V	C323	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C158	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V						(RV888D/RV999D)
C159	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V						
						C324	1-126-964-11	ELECT	10uF	20%	50V
C160	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V						(RV888D/RV999D)
C161	1-126-964-11	ELECT	10uF	20%	50V	C325	1-126-964-11	ELECT	10uF	20%	50V
C162	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V						(RV888D/RV999D)
C163	1-126-964-11	ELECT	10uF	20%	50V	C330	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C164	1-137-194-81	FILM	0.47uF	5%	50V						(RV888D/RV999D)
						C331	1-126-960-11	ELECT	1uF	20%	50V
C165	1-137-194-81	FILM	0.47uF	5%	50V						(RV888D/RV999D)
C166	1-115-871-11	ELECT	1uF	20%	50V	C332	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C167	1-126-964-11	ELECT	10uF	20%	50V						(RV888D/RV999D)
C171	1-115-870-11	ELECT	0.47uF	20%	50V						
C172	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C333	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
											(RV888D/RV999D)
C181	1-126-964-11	ELECT	10uF	20%	50V	C334	1-126-964-11	ELECT	10uF	20%	50V
C182	1-162-927-11	CERAMIC CHIP	100PF	5%	50V						(RV888D/RV999D)
C183	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C335	1-126-964-11	ELECT	10uF	20%	50V
C185	1-110-518-11	ELECT	10uF	20%	100V	C337	1-126-964-11	ELECT	10uF	20%	50V
C191	1-126-933-11	ELECT	100uF	20%	16V						(RV888D/RV999D)
						C338	1-126-964-11	ELECT	10uF	20%	50V
C192	1-126-964-11	ELECT	10uF	20%	50V						(RV888D/RV999D)
C193	1-126-960-11	ELECT	1uF	20%	50V						
C201	1-216-864-11	SHORT CHIP	0			C341	1-126-933-11	ELECT	100uF	20%	16V
C202	1-216-864-11	SHORT CHIP	0			C342	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C231	1-126-964-11	ELECT	10uF	20%	50V	C343	1-126-960-11	ELECT	1uF	20%	50V
						C344	1-126-933-11	ELECT	100uF	20%	16V
C232	1-104-658-11	ELECT	100uF	20%	10V	C345	1-126-933-11	ELECT	100uF	20%	16V
C233	1-126-961-11	ELECT	2.2uF	20%	50V						
C234	1-104-658-11	ELECT	100uF	20%	10V	C347	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C235	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C351	1-126-964-11	ELECT	10uF	20%	50V
C271	1-126-964-11	ELECT	10uF	20%	50V						(RV888D/RV999D)
						C352	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C272	1-126-964-11	ELECT	10uF	20%	50V						(RV888D/RV999D)
						C353	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C301	1-126-964-11	ELECT	10uF	20%	50V						(RV888D/RV999D)
						C354	1-126-964-11	ELECT	10uF	20%	50V
C302	1-162-960-11	CERAMIC CHIP	220PF	10%	50V						(RV888D/RV999D)
						C355	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C303	1-162-960-11	CERAMIC CHIP	220PF	10%	50V						(RV888D/RV999D)
						C356	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C304	1-126-964-11	ELECT	10uF	20%	50V						(RV888D/RV999D)
						C357	1-126-964-11	ELECT	10uF	20%	50V
C305	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V						(RV888D/RV999D)
						C358	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C306	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V						(RV888D/RV999D)
						C359	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C307	1-126-964-11	ELECT	10uF	20%	50V						(RV888D/RV999D)
						C360	1-126-964-11	ELECT	10uF	20%	50V
C308	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C361	1-126-960-11	ELECT	1uF	20%	50V
C309	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V						(RV888D/RV999D)
						C363	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C310	1-126-964-11	ELECT	10uF	20%	50V						(RV888D/RV999D)
C311	1-126-960-11	ELECT	1uF	20%	50V	C364	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C312	1-126-964-11	ELECT	10uF	20%	50V						(RV888D/RV999D)
						C365	1-126-964-11	ELECT	10uF	20%	50V
											(RV888D/RV999D)
C313	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V	C367	1-126-964-11	ELECT	10uF	20%	50V
											(RV888D/RV999D)

HCD-RV777D/RV888D/RV999D

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C368	1-126-964-11	ELECT	10uF 20% 50V (RV888D/RV999D)	C772	1-107-696-11	ELECT	47uF 20% 16V (RV888D/RV999D)
C371	1-126-964-11	ELECT	10uF 20% 50V	C773	1-107-696-11	ELECT	47uF 20% 16V (RV888D/RV999D)
C372	1-126-964-11	ELECT	10uF 20% 50V (RV888D/RV999D)	C774	1-107-696-11	ELECT	47uF 20% 16V
C562	1-164-156-11	CERAMIC CHIP	0.1uF 25V (RV777D)	C775	1-107-696-11	ELECT	47uF 20% 16V
C563	1-126-923-11	ELECT	220uF 20% 10V (RV777D)	C791	1-126-963-11	ELECT	4.7uF 20% 50V
C601	1-162-968-11	CERAMIC CHIP	0.0047uF 10% 50V	C810	1-162-918-11	CERAMIC CHIP	18PF 5% 50V
C602	1-164-245-11	CERAMIC CHIP	0.015uF 10% 25V	C811	1-162-919-11	CERAMIC CHIP	22PF 5% 50V
C603	1-136-155-00	FILM	0.015uF 5% 50V	C813	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C604	1-137-194-81	FILM	0.47uF 5% 50V	C814	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
C605	1-106-375-12	MYLAR	0.022uF 5% 200V	C815	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
C607	1-126-794-11	ELECT	4.7uF 20% 50V	C816	1-104-655-11	ELECT	470uF 20% 6.3V
C611	1-162-963-11	CERAMIC CHIP	680PF 10% 50V	C817	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C612	1-126-794-11	ELECT	4.7uF 20% 50V	C821	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C613	1-162-963-11	CERAMIC CHIP	680PF 10% 50V	C862	1-104-655-11	ELECT	470uF 20% 6.3V
C614	1-126-794-11	ELECT	4.7uF 20% 50V	C863	1-162-974-11	CERAMIC CHIP	0.01uF 50V
C615	1-137-150-11	FILM	0.01uF 5% 100V	C897	1-162-974-11	CERAMIC CHIP	0.01uF 50V
C616	1-126-947-11	ELECT	47uF 20% 35V	C898	1-126-964-11	ELECT	10uF 20% 50V
C617	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V	C899	1-162-974-11	CERAMIC CHIP	0.01uF 50V
C618	1-126-961-11	ELECT	2.2uF 20% 50V			< CONNECTOR >	
C619	1-126-956-11	ELECT	0.1uF 20% 50V	CN102	1-568-830-11	CONNECTOR, FFC 11P	
C620	1-126-960-11	ELECT	1uF 20% 50V	CN301	1-779-281-11	CONNECTOR, FFC (LIF(NON-ZIF)) 13P (RV777D)	
C621	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	CN301	1-779-293-11	CONNECTOR, FFC (LIF(NON-ZIF)) 25P (RV888D/RV999D)	
C622	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	CN543	1-785-324-11	PIN, CONNECTOR (STRAIGHT) 12P	
C623	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	* CN602	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P	
C624	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	* CN603	1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P	
C651	1-162-963-11	CERAMIC CHIP	680PF 10% 50V	CN605	1-784-774-11	CONNECTOR, FFC 13P	
C652	1-126-794-11	ELECT	4.7uF 20% 50V	* CN704	1-564-518-11	PLUG, CONNECTOR 3P	
C653	1-162-963-11	CERAMIC CHIP	680PF 10% 50V	CN705	1-573-847-11	CONNECTOR, BOARD TO BOARD 15P	
C654	1-126-794-11	ELECT	4.7uF 20% 50V	CN706	1-784-776-11	CONNECTOR, FFC 15P	
C655	1-137-150-11	FILM	0.01uF 5% 100V	CN707	1-573-847-11	CONNECTOR, BOARD TO BOARD 15P	
C656	1-126-947-11	ELECT	47uF 20% 35V	CN901	1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P (RV888D/RV999D)	
C657	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V	CN902	1-785-319-11	PIN, CONNECTOR (STRAIGHT) 7P	
C658	1-126-961-11	ELECT	2.2uF 20% 50V			< DIODE >	
C659	1-126-956-11	ELECT	0.1uF 20% 50V	D101	8-719-988-61	DIODE 1SS355TE-17	
C661	1-164-217-11	CERAMIC CHIP	150PF 5% 50V	D102	8-719-988-61	DIODE 1SS355TE-17	
C662	1-162-974-11	CERAMIC CHIP	0.01uF 50V	D171	8-719-988-61	DIODE 1SS355TE-17	
C663	1-162-974-11	CERAMIC CHIP	0.01uF 50V	D192	8-719-988-61	DIODE 1SS355TE-17	
C664	1-126-964-11	ELECT	10uF 20% 50V	D193	8-719-988-61	DIODE 1SS355TE-17	
C665	1-126-947-11	ELECT	47uF 20% 35V	D194	8-719-988-61	DIODE 1SS355TE-17	
C666	1-136-177-00	FILM	1uF 5% 50V	D201	8-719-988-61	DIODE 1SS355TE-17	
C713	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	D202	8-719-988-61	DIODE 1SS355TE-17	
C714	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	D230	8-719-988-61	DIODE 1SS355TE-17	
C715	1-126-964-11	ELECT	10uF 20% 50V	D231	8-719-988-61	DIODE 1SS355TE-17	
C719	1-126-794-11	ELECT	4.7uF 20% 50V	D609	8-719-988-61	DIODE 1SS355TE-17	
C723	1-162-974-11	CERAMIC CHIP	0.01uF 50V	D610	8-719-988-61	DIODE 1SS355TE-17	
C724	1-164-227-11	CERAMIC CHIP	0.022uF 10% 25V	D611	8-719-988-61	DIODE 1SS355TE-17	
C726	1-164-227-11	CERAMIC CHIP	0.022uF 10% 25V	D703	8-719-988-61	DIODE 1SS355TE-17	
C734	1-136-153-00	FILM	0.01uF 5% 50V	D704	8-719-988-61	DIODE 1SS355TE-17	
C735	1-136-153-00	FILM	0.01uF 5% 50V	D705	8-719-988-61	DIODE 1SS355TE-17	
C738	1-119-939-51	ELECT	6800uF 20% 35V	D706	8-719-988-61	DIODE 1SS355TE-17	
C739	1-126-961-11	ELECT	2.2uF 20% 50V	D707	8-719-058-24	DIODE RB501V-40TE-17	
C740	1-111-235-61	ELECT	10000uF 20% 25V	D708	8-719-988-61	DIODE 1SS355TE-17	
C752	1-136-153-00	FILM	0.01uF 5% 50V				
C753	1-136-153-00	FILM	0.01uF 5% 50V				

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
D709	8-719-988-61	DIODE 1SS355TE-17		JR17	1-216-864-11	SHORT CHIP 0	
D710	8-719-988-61	DIODE 1SS355TE-17		JR104	1-216-837-11	METAL CHIP 22K 5% 1/10W	
D711	8-719-988-61	DIODE 1SS355TE-17		JR105	1-216-837-11	METAL CHIP 22K 5% 1/10W	
D712	8-719-988-61	DIODE 1SS355TE-17		JR110	1-216-864-11	SHORT CHIP 0 (RV777D)	
D714	6-500-522-21	DIODE 10EDB40-TB3		JR601	1-216-864-11	SHORT CHIP 0	
D716	8-719-069-56	DIODE UDZSTE-176.2B		JR602	1-216-864-11	SHORT CHIP 0	
D717	8-719-069-56	DIODE UDZSTE-176.2B		JR603	1-216-864-11	SHORT CHIP 0	
D729	8-719-085-36	DIODE 11EQS04-TB5				< COIL >	
D732	8-719-028-23	DIODE D3SBA20-4101		L341	1-412-064-11	INDUCTOR 100uH	
D733	8-719-028-23	DIODE D3SBA20-4101		L561	1-408-619-31	INDUCTOR 220uH (RV777D)	
D734	8-719-988-61	DIODE 1SS355TE-17				< TRANSISTOR >	
D735	8-719-988-61	DIODE 1SS355TE-17		Q111	8-729-905-35	TRANSISTOR 2SC4081-R	
D804	8-719-988-61	DIODE 1SS355TE-17		Q112	8-729-905-35	TRANSISTOR 2SC4081-R	
D809	8-719-988-61	DIODE 1SS355TE-17		Q142	8-729-021-15	TRANSISTOR 2SD2351T106W	
D810	8-719-988-61	DIODE 1SS355TE-17 (RV888D/RV999D)		Q143	8-729-021-15	TRANSISTOR 2SD2351T106W	
D811	8-719-988-61	DIODE 1SS355TE-17		Q151	8-729-905-35	TRANSISTOR 2SC4081-R	
D812	8-719-988-61	DIODE 1SS355TE-17 (RV888D/RV999D)		Q152	8-729-905-35	TRANSISTOR 2SC4081-R	
D813	8-719-988-61	DIODE 1SS355TE-17		Q171	8-729-021-15	TRANSISTOR 2SD2351T106W	
		< GROUND TERMINAL BOARD >		Q172	8-729-021-15	TRANSISTOR 2SD2351T106W	
EPT701	1-537-771-21	TERMINAL BOARD, GROUND		Q182	8-729-021-15	TRANSISTOR 2SD2351T106W	
		< FERRITE BEAD >		Q183	8-729-021-15	TRANSISTOR 2SD2351T106W	
FB561	1-500-445-21	FERRITE, EMI (SMD) (2012) (RV777D)		Q191	8-729-905-35	TRANSISTOR 2SC4081-R	
FB801	1-500-445-21	FERRITE, EMI (SMD) (2012)		Q232	8-729-905-35	TRANSISTOR 2SC4081-R	
		< JUMPER RESISTOR >		Q233	8-729-905-35	TRANSISTOR 2SC4081-R	
FB862	1-216-864-11	SHORT CHIP 0		Q234	8-729-905-35	TRANSISTOR 2SC4081-R	
FB899	1-216-864-11	SHORT CHIP 0		Q373	8-729-021-15	TRANSISTOR 2SD2351T106W (RV888D/RV999D)	
		< IC >		Q374	8-729-021-15	TRANSISTOR 2SD2351T106W (RV888D/RV999D)	
IC101	6-705-667-01	IC M61537FP-RF0G		Q375	8-729-021-15	TRANSISTOR 2SD2351T106W (RV888D/RV999D)	
IC203	6-703-610-01	IC RT8H015C-T112-1		Q377	8-729-021-15	TRANSISTOR 2SD2351T106W	
IC301	6-703-651-11	IC M61530FP-D60G (RV888D/RV999D)		Q601	8-729-142-46	TRANSISTOR 2SC2001-LK	
IC302	8-749-019-25	IC TOTX141 (DVD DIGITAL OUT) (RV777D)		Q602	6-550-044-01	TRANSISTOR 2SB1689-T106	
IC303	8-759-697-21	IC NJM4565V(T2) (RV777D)		Q603	8-729-905-35	TRANSISTOR 2SC4081-R	
IC701	6-804-222-01	IC M30620MCN-A38FPU0		Q604	8-729-905-35	TRANSISTOR 2SC4081-R	
IC703	8-759-532-64	IC M62703SL-TP		Q605	8-729-028-73	TRANSISTOR DTA114EUA-T106	
		< JACK >		Q606	8-729-907-00	TRANSISTOR DTC114EU	
J102	1-774-785-11	JACK, PIN 1P (SUB WOOFER OUT)		Q607	8-729-028-73	TRANSISTOR DTA114EUA-T106	
J104	1-816-918-11	JACK, PIN 4P (VIDEO/SAT)		Q608	8-729-907-00	TRANSISTOR DTC114EU	
		< JUMPER RESISTOR >		Q613	6-550-044-01	TRANSISTOR 2SB1689-T106	
JR3	1-216-864-11	SHORT CHIP 0		Q614	8-729-907-00	TRANSISTOR DTC114EU	
JR4	1-216-864-11	SHORT CHIP 0 (RV888D/RV999D)		Q615	8-729-907-00	TRANSISTOR DTC114EU	
JR5	1-216-864-11	SHORT CHIP 0 (RV888D/RV999D)		Q616	6-550-044-01	TRANSISTOR 2SB1689-T106	
JR6	1-216-864-11	SHORT CHIP 0		Q617	6-550-044-01	TRANSISTOR 2SB1689-T106	
JR8	1-216-864-11	SHORT CHIP 0		Q618	8-729-907-00	TRANSISTOR DTC114EU	
JR9	1-216-864-11	SHORT CHIP 0		Q621	8-729-021-15	TRANSISTOR 2SD2351T106W	
JR10	1-216-864-11	SHORT CHIP 0 (RV888D/RV999D)		Q622	8-729-021-15	TRANSISTOR 2SD2351T106W	
JR11	1-216-864-11	SHORT CHIP 0		Q623	8-729-028-73	TRANSISTOR DTA114EUA-T106	
JR12	1-216-864-11	SHORT CHIP 0		Q624	8-729-907-00	TRANSISTOR DTC114EU	
JR13	1-216-864-11	SHORT CHIP 0		Q625	8-729-021-15	TRANSISTOR 2SD2351T106W	
JR14	1-216-864-11	SHORT CHIP 0		Q626	8-729-021-15	TRANSISTOR 2SD2351T106W	
JR15	1-216-864-11	SHORT CHIP 0		Q627	8-729-021-15	TRANSISTOR 2SD2351T106W	
JR16	1-216-864-11	SHORT CHIP 0		Q628	8-729-021-15	TRANSISTOR 2SD2351T106W	
				Q629	8-729-026-53	TRANSISTOR 2SA1576A-T106-QR	
				Q630	8-729-907-00	TRANSISTOR DTC114EU	

HCD-RV777D/RV888D/RV999D

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
Q631	8-729-907-00	TRANSISTOR DTC114EU		R155	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q661	8-729-029-10	TRANSISTOR DTC143TUA-T106		R156	1-216-841-11	METAL CHIP 47K 5%	1/10W
Q662	8-729-905-35	TRANSISTOR 2SC4081-R		R157	1-216-841-11	METAL CHIP 47K 5%	1/10W
Q701	8-729-028-73	TRANSISTOR DTA114EUA-T106		R158	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q702	8-729-028-73	TRANSISTOR DTA114EUA-T106		R159	1-216-809-11	METAL CHIP 100 5%	1/10W
Q703	8-729-028-73	TRANSISTOR DTA114EUA-T106		R160	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q704	8-729-907-00	TRANSISTOR DTC114EU		R171	1-216-857-11	METAL CHIP 1M 5%	1/10W
Q705	8-729-905-35	TRANSISTOR 2SC4081-R		R172	1-216-845-11	METAL CHIP 100K 5%	1/10W
Q706	8-729-905-35	TRANSISTOR 2SC4081-R		R173	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q707	8-729-028-73	TRANSISTOR DTA114EUA-T106		R174	1-216-837-11	METAL CHIP 22K 5%	1/10W
Q708	8-729-907-00	TRANSISTOR DTC114EU		R175	1-216-837-11	METAL CHIP 22K 5%	1/10W
Q709	8-729-905-35	TRANSISTOR 2SC4081-R		R176	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
Q710	8-729-905-35	TRANSISTOR 2SC4081-R		R177	1-216-845-11	METAL CHIP 100K 5%	1/10W
Q713	8-729-026-68	TRANSISTOR 2SD2525(TP)		R178	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
Q714	8-729-907-00	TRANSISTOR DTC114EU		R179	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
Q719	8-729-028-73	TRANSISTOR DTA114EUA-T106 (RV888D/RV999D)		R180	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q721	8-729-028-73	TRANSISTOR DTA114EUA-T106		R181	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
Q723	8-729-028-73	TRANSISTOR DTA114EUA-T106		R182	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
Q724	8-729-028-73	TRANSISTOR DTA114EUA-T106 (RV888D/RV999D)		R184	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q801	8-729-907-00	TRANSISTOR DTC114EU		R185	1-216-845-11	METAL CHIP 100K 5%	1/10W
		< RESISTOR >		R186	1-216-864-11	SHORT CHIP 0	
R101	1-216-821-11	METAL CHIP 1K 5%	1/10W	R187	1-216-821-11	METAL CHIP 1K 5%	1/10W
R102	1-216-821-11	METAL CHIP 1K 5%	1/10W	R188	1-216-845-11	METAL CHIP 100K 5%	1/10W
R111	1-165-176-11	CERAMIC CHIP 0.047uF 10%	16V (RV777D)	R189	1-216-821-11	METAL CHIP 1K 5%	1/10W
R111	1-216-864-11	SHORT CHIP 0 (RV888D/RV999D)		△R190	1-215-890-11	METAL OXIDE 470 5%	2W F
R112	1-216-829-11	METAL CHIP 4.7K 5%	1/10W	R191	1-216-837-11	METAL CHIP 22K 5%	1/10W
R113	1-216-833-11	METAL CHIP 10K 5%	1/10W	R192	1-216-833-11	METAL CHIP 10K 5%	1/10W
R114	1-216-833-11	METAL CHIP 10K 5%	1/10W	R193	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R115	1-216-821-11	METAL CHIP 1K 5%	1/10W	R194	1-216-821-11	METAL CHIP 1K 5%	1/10W
R116	1-216-841-11	METAL CHIP 47K 5%	1/10W	R195	1-216-845-11	METAL CHIP 100K 5%	1/10W
R117	1-216-841-11	METAL CHIP 47K 5%	1/10W	R196	1-216-837-11	METAL CHIP 22K 5%	1/10W
R118	1-216-833-11	METAL CHIP 10K 5%	1/10W	R197	1-216-841-11	METAL CHIP 47K 5%	1/10W
R119	1-216-809-11	METAL CHIP 100 5%	1/10W	R230	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R120	1-216-821-11	METAL CHIP 1K 5%	1/10W	R231	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R130	1-216-864-11	SHORT CHIP 0 (RV777D)		R233	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R131	1-216-864-11	SHORT CHIP 0		R271	1-216-825-11	METAL CHIP 2.2K 5%	1/10W (RV777D)
R132	1-216-833-11	METAL CHIP 10K 5%	1/10W	R271	1-216-864-11	SHORT CHIP 0 (RV888D/RV999D)	
R133	1-216-821-11	METAL CHIP 1K 5%	1/10W	R301	1-216-841-11	METAL CHIP 47K 5%	1/10W (RV888D/RV999D)
R134	1-216-825-11	METAL CHIP 2.2K 5%	1/10W	R302	1-216-817-11	METAL CHIP 470 5%	1/10W (RV888D/RV999D)
R140	1-216-821-11	METAL CHIP 1K 5%	1/10W	R303	1-216-833-11	METAL CHIP 10K 5%	1/10W (RV888D/RV999D)
R141	1-216-829-11	METAL CHIP 4.7K 5%	1/10W	R304	1-216-833-11	METAL CHIP 10K 5%	1/10W (RV888D/RV999D)
R142	1-216-825-11	METAL CHIP 2.2K 5%	1/10W	R305	1-216-825-11	METAL CHIP 2.2K 5%	1/10W (RV888D/RV999D)
R144	1-216-821-11	METAL CHIP 1K 5%	1/10W	R306	1-216-829-11	METAL CHIP 4.7K 5%	1/10W (RV888D/RV999D)
R145	1-216-845-11	METAL CHIP 100K 5%	1/10W	R307	1-216-841-11	METAL CHIP 47K 5%	1/10W (RV888D/RV999D)
R146	1-216-864-11	SHORT CHIP 0		R309	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R147	1-216-821-11	METAL CHIP 1K 5%	1/10W	R310	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R148	1-216-845-11	METAL CHIP 100K 5%	1/10W	R311	1-216-841-11	METAL CHIP 47K 5%	1/10W
R149	1-216-821-11	METAL CHIP 1K 5%	1/10W	R312	1-216-857-11	METAL CHIP 1M 5%	1/10W (RV888D/RV999D)
△R150	1-215-890-11	METAL OXIDE 470 5%	2W F	R313	1-216-833-11	METAL CHIP 10K 5%	1/10W (RV888D/RV999D)
R151	1-216-833-11	METAL CHIP 10K 5%	1/10W (RV777D)				
R151	1-216-864-11	SHORT CHIP 0 (RV888D/RV999D)					
R152	1-216-829-11	METAL CHIP 4.7K 5%	1/10W				
R153	1-216-833-11	METAL CHIP 10K 5%	1/10W				
R154	1-216-833-11	METAL CHIP 10K 5%	1/10W				

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R314	1-216-819-11	METAL CHIP	680 5% 1/10W (RV888D/RV999D)	R383	1-216-845-11	METAL CHIP	100K 5% 1/10W (RV888D/RV999D)
R320	1-216-833-11	METAL CHIP	10K 5% 1/10W (RV888D/RV999D)	R384	1-216-845-11	METAL CHIP	100K 5% 1/10W (RV888D/RV999D)
R321	1-216-825-11	METAL CHIP	2.2K 5% 1/10W (RV888D/RV999D)	R385	1-216-845-11	METAL CHIP	100K 5% 1/10W (RV888D/RV999D)
R322	1-216-829-11	METAL CHIP	4.7K 5% 1/10W (RV888D/RV999D)	R386	1-216-845-11	METAL CHIP	100K 5% 1/10W
R323	1-216-841-11	METAL CHIP	47K 5% 1/10W (RV888D/RV999D)	R387	1-216-845-11	METAL CHIP	100K 5% 1/10W (RV888D/RV999D)
R330	1-216-857-11	METAL CHIP	1M 5% 1/10W (RV888D/RV999D)	R388	1-216-845-11	METAL CHIP	100K 5% 1/10W (RV888D/RV999D)
R331	1-216-821-11	METAL CHIP	1K 5% 1/10W (RV888D/RV999D)	R393	1-216-825-11	METAL CHIP	2.2K 5% 1/10W (RV888D/RV999D)
R332	1-216-825-11	METAL CHIP	2.2K 5% 1/10W (RV888D/RV999D)	R394	1-216-825-11	METAL CHIP	2.2K 5% 1/10W (RV888D/RV999D)
R341	1-216-809-11	METAL CHIP	100 5% 1/10W	R395	1-216-825-11	METAL CHIP	2.2K 5% 1/10W (RV888D/RV999D)
R342	1-216-809-11	METAL CHIP	100 5% 1/10W	R397	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R351	1-216-841-11	METAL CHIP	47K 5% 1/10W (RV888D/RV999D)	R563	1-216-833-11	METAL CHIP	10K 5% 1/10W
R352	1-216-817-11	METAL CHIP	470 5% 1/10W (RV888D/RV999D)	R601	1-216-838-11	METAL CHIP	27K 5% 1/10W
R353	1-216-833-11	METAL CHIP	10K 5% 1/10W (RV888D/RV999D)	R602	1-216-809-11	METAL CHIP	100 5% 1/10W
R354	1-216-833-11	METAL CHIP	10K 5% 1/10W (RV888D/RV999D)	R603	1-216-833-11	METAL CHIP	10K 5% 1/10W
R355	1-216-825-11	METAL CHIP	2.2K 5% 1/10W (RV888D/RV999D)	R604	1-216-833-11	METAL CHIP	10K 5% 1/10W
R356	1-216-829-11	METAL CHIP	4.7K 5% 1/10W (RV888D/RV999D)	R605	1-216-833-11	METAL CHIP	10K 5% 1/10W
R357	1-216-841-11	METAL CHIP	47K 5% 1/10W (RV888D/RV999D)	R607	1-216-833-11	METAL CHIP	10K 5% 1/10W
R359	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R608	1-216-845-11	METAL CHIP	100K 5% 1/10W
R360	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R609	1-216-833-11	METAL CHIP	10K 5% 1/10W
R361	1-216-841-11	METAL CHIP	47K 5% 1/10W	R610	1-216-845-11	METAL CHIP	100K 5% 1/10W
R362	1-216-857-11	METAL CHIP	1M 5% 1/10W (RV888D/RV999D)	R611	1-216-821-11	METAL CHIP	1K 5% 1/10W
R363	1-216-833-11	METAL CHIP	10K 5% 1/10W (RV888D/RV999D)	R612	1-216-821-11	METAL CHIP	1K 5% 1/10W
R364	1-216-819-11	METAL CHIP	680 5% 1/10W (RV888D/RV999D)	R613	1-216-851-11	METAL CHIP	330K 5% 1/10W
R371	1-216-864-11	SHORT CHIP	0 (RV888D/RV999D)	R614	1-216-834-11	METAL CHIP	12K 5% 1/10W
R372	1-216-864-11	SHORT CHIP	0 (RV888D/RV999D)	R615	1-216-812-11	METAL CHIP	180 5% 1/10W
R373	1-216-825-11	METAL CHIP	2.2K 5% 1/10W (RV888D/RV999D)	R616	1-216-834-11	METAL CHIP	12K 5% 1/10W
R374	1-216-825-11	METAL CHIP	2.2K 5% 1/10W (RV888D/RV999D)	R617	1-216-835-11	METAL CHIP	15K 5% 1/10W
R375	1-216-825-11	METAL CHIP	2.2K 5% 1/10W (RV888D/RV999D)	R618	1-216-823-11	METAL CHIP	1.5K 5% 1/10W
R376	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R620	1-216-857-11	METAL CHIP	1M 5% 1/10W
R377	1-216-825-11	METAL CHIP	2.2K 5% 1/10W (RV777D)	R621	1-216-821-11	METAL CHIP	1K 5% 1/10W
R377	1-216-864-11	SHORT CHIP	0 (RV888D/RV999D)	R622	1-216-821-11	METAL CHIP	1K 5% 1/10W
R381	1-216-833-11	METAL CHIP	10K 5% 1/10W (RV777D)	R623	1-216-821-11	METAL CHIP	1K 5% 1/10W
R381	1-216-845-11	METAL CHIP	100K 5% 1/10W (RV888D/RV999D)	R624	1-216-821-11	METAL CHIP	1K 5% 1/10W
R382	1-216-833-11	METAL CHIP	10K 5% 1/10W (RV777D)	R625	1-216-821-11	METAL CHIP	1K 5% 1/10W
R382	1-216-845-11	METAL CHIP	100K 5% 1/10W (RV888D/RV999D)	R626	1-216-821-11	METAL CHIP	1K 5% 1/10W
				R627	1-216-833-11	METAL CHIP	10K 5% 1/10W
				R628	1-216-833-11	METAL CHIP	10K 5% 1/10W
				R629	1-216-833-11	METAL CHIP	10K 5% 1/10W
				R639	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
				R651	1-216-821-11	METAL CHIP	1K 5% 1/10W
				R652	1-216-821-11	METAL CHIP	1K 5% 1/10W
				R653	1-216-851-11	METAL CHIP	330K 5% 1/10W
				R654	1-216-834-11	METAL CHIP	12K 5% 1/10W
				R655	1-216-812-11	METAL CHIP	180 5% 1/10W
				R656	1-216-834-11	METAL CHIP	12K 5% 1/10W
				R657	1-216-835-11	METAL CHIP	15K 5% 1/10W
				R658	1-216-823-11	METAL CHIP	1.5K 5% 1/10W
				R661	1-216-851-11	METAL CHIP	330K 5% 1/10W
				R662	1-216-835-11	METAL CHIP	15K 5% 1/10W
				R663	1-216-835-11	METAL CHIP	15K 5% 1/10W
				R664	1-216-833-11	METAL CHIP	10K 5% 1/10W

HCD-RV777D/RV888D/RV999D

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R665	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R779	1-216-821-11	METAL CHIP	1K 5% 1/10W (RV888D/RV999D)
R666	1-216-837-11	METAL CHIP	22K 5% 1/10W	R780	1-216-833-11	METAL CHIP	10K 5% 1/10W
R667	1-216-837-11	METAL CHIP	22K 5% 1/10W	R801	1-216-809-11	METAL CHIP	100 5% 1/10W
R668	1-216-838-11	METAL CHIP	27K 5% 1/10W	R802	1-216-809-11	METAL CHIP	100 5% 1/10W
R669	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R803	1-216-809-11	METAL CHIP	100 5% 1/10W
R675	1-216-833-11	METAL CHIP	10K 5% 1/10W	R804	1-216-809-11	METAL CHIP	100 5% 1/10W
R676	1-216-841-11	METAL CHIP	47K 5% 1/10W	R805	1-216-809-11	METAL CHIP	100 5% 1/10W
R677	1-216-833-11	METAL CHIP	10K 5% 1/10W	R806	1-216-809-11	METAL CHIP	100 5% 1/10W
R678	1-216-833-11	METAL CHIP	10K 5% 1/10W	R807	1-216-809-11	METAL CHIP	100 5% 1/10W
R679	1-216-833-11	METAL CHIP	10K 5% 1/10W	R808	1-216-864-11	SHORT CHIP	0
R680	1-216-833-11	METAL CHIP	10K 5% 1/10W	R809	1-216-809-11	METAL CHIP	100 5% 1/10W
R681	1-216-833-11	METAL CHIP	10K 5% 1/10W	R811	1-216-851-11	METAL CHIP	330K 5% 1/10W
R682	1-216-833-11	METAL CHIP	10K 5% 1/10W	R812	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R683	1-216-821-11	METAL CHIP	1K 5% 1/10W	R813	1-216-845-11	METAL CHIP	100K 5% 1/10W
R684	1-216-819-11	METAL CHIP	680 5% 1/10W	R817	1-216-809-11	METAL CHIP	100 5% 1/10W
R685	1-216-821-11	METAL CHIP	1K 5% 1/10W	R818	1-216-833-11	METAL CHIP	10K 5% 1/10W
R686	1-216-819-11	METAL CHIP	680 5% 1/10W	R819	1-216-809-11	METAL CHIP	100 5% 1/10W
R687	1-216-821-11	METAL CHIP	1K 5% 1/10W	R820	1-216-833-11	METAL CHIP	10K 5% 1/10W
R688	1-216-819-11	METAL CHIP	680 5% 1/10W	R821	1-216-809-11	METAL CHIP	100 5% 1/10W
R693	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R822	1-216-809-11	METAL CHIP	100 5% 1/10W
R694	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R823	1-216-809-11	METAL CHIP	100 5% 1/10W
R706	1-216-821-11	METAL CHIP	1K 5% 1/10W	R824	1-216-809-11	METAL CHIP	100 5% 1/10W
R707	1-216-841-11	METAL CHIP	47K 5% 1/10W	R825	1-216-809-11	METAL CHIP	100 5% 1/10W
R708	1-216-833-11	METAL CHIP	10K 5% 1/10W	R826	1-216-833-11	METAL CHIP	10K 5% 1/10W
R709	1-216-841-11	METAL CHIP	47K 5% 1/10W	R829	1-216-809-11	METAL CHIP	100 5% 1/10W
R710	1-216-821-11	METAL CHIP	1K 5% 1/10W	R830	1-216-809-11	METAL CHIP	100 5% 1/10W
R711	1-216-833-11	METAL CHIP	10K 5% 1/10W	R831	1-216-809-11	METAL CHIP	100 5% 1/10W
R726	1-216-833-11	METAL CHIP	10K 5% 1/10W	R832	1-216-809-11	METAL CHIP	100 5% 1/10W
R727	1-216-821-11	METAL CHIP	1K 5% 1/10W	R833	1-216-809-11	METAL CHIP	100 5% 1/10W
R729	1-216-821-11	METAL CHIP	1K 5% 1/10W	R834	1-216-809-11	METAL CHIP	100 5% 1/10W
R730	1-216-833-11	METAL CHIP	10K 5% 1/10W	R835	1-216-809-11	METAL CHIP	100 5% 1/10W
R736	1-216-841-11	METAL CHIP	47K 5% 1/10W	R836	1-216-809-11	METAL CHIP	100 5% 1/10W
R743	1-216-841-11	METAL CHIP	47K 5% 1/10W	R847	1-216-809-11	METAL CHIP	100 5% 1/10W
R744	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R848	1-216-809-11	METAL CHIP	100 5% 1/10W
R745	1-216-817-11	METAL CHIP	470 5% 1/10W	R849	1-216-809-11	METAL CHIP	100 5% 1/10W
R746	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R850	1-216-809-11	METAL CHIP	100 5% 1/10W
R747	1-216-841-11	METAL CHIP	47K 5% 1/10W	R851	1-216-809-11	METAL CHIP	100 5% 1/10W
R748	1-216-849-11	METAL CHIP	220K 5% 1/10W	R852	1-216-809-11	METAL CHIP	100 5% 1/10W
R749	1-216-837-11	METAL CHIP	22K 5% 1/10W	R853	1-216-809-11	METAL CHIP	100 5% 1/10W
R750	1-216-837-11	METAL CHIP	22K 5% 1/10W	R854	1-216-809-11	METAL CHIP	100 5% 1/10W
R753	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W	R855	1-216-809-11	METAL CHIP	100 5% 1/10W
R754	1-216-837-11	METAL CHIP	22K 5% 1/10W	R856	1-216-821-11	METAL CHIP	1K 5% 1/10W
R755	1-216-837-11	METAL CHIP	22K 5% 1/10W	R857	1-216-821-11	METAL CHIP	1K 5% 1/10W
R760	1-216-821-11	METAL CHIP	1K 5% 1/10W	R858	1-216-833-11	METAL CHIP	10K 5% 1/10W
R761	1-216-841-11	METAL CHIP	47K 5% 1/10W (RV888D/RV999D)	R859	1-216-833-11	METAL CHIP	10K 5% 1/10W
R762	1-216-833-11	METAL CHIP	10K 5% 1/10W (RV888D/RV999D)	R860	1-216-833-11	METAL CHIP	10K 5% 1/10W
R764	1-216-841-11	METAL CHIP	47K 5% 1/10W	R861	1-216-833-11	METAL CHIP	10K 5% 1/10W
R766	1-216-821-11	METAL CHIP	1K 5% 1/10W	R862	1-216-833-11	METAL CHIP	10K 5% 1/10W
R767	1-216-841-11	METAL CHIP	47K 5% 1/10W	R863	1-216-833-11	METAL CHIP	10K 5% 1/10W
R768	1-216-833-11	METAL CHIP	10K 5% 1/10W	R867	1-216-809-11	METAL CHIP	100 5% 1/10W
R774	1-216-864-11	SHORT CHIP	0	R868	1-216-809-11	METAL CHIP	100 5% 1/10W
R776	1-216-833-11	METAL CHIP	10K 5% 1/10W	R869	1-216-809-11	METAL CHIP	100 5% 1/10W
R777	1-216-833-11	METAL CHIP	10K 5% 1/10W (RV888D/RV999D)	R870	1-216-809-11	METAL CHIP	100 5% 1/10W
R778	1-216-841-11	METAL CHIP	47K 5% 1/10W (RV888D/RV999D)	R871	1-216-809-11	METAL CHIP	100 5% 1/10W
				R872	1-216-809-11	METAL CHIP	100 5% 1/10W
				R873	1-216-809-11	METAL CHIP	100 5% 1/10W
				R874	1-216-809-11	METAL CHIP	100 5% 1/10W

MAIN

MOTOR (LD)

MOTOR (TB)

PANEL

Ref. No.	Part No.	Description	Quantity	Remark
R875	1-216-809-11	METAL CHIP	100	5% 1/10W
R885	1-216-809-11	METAL CHIP	100	5% 1/10W
R886	1-216-809-11	METAL CHIP	100	5% 1/10W
R887	1-216-821-11	METAL CHIP	1K	5% 1/10W
R888	1-216-809-11	METAL CHIP	100	5% 1/10W
R893	1-216-819-11	METAL CHIP	680	5% 1/10W (RV777D)
R893	1-216-821-11	METAL CHIP	1K	5% 1/10W (RV888D)
R893	1-216-823-11	METAL CHIP	1.5K	5% 1/10W (RV999D)
R894	1-216-815-11	METAL CHIP	330	5% 1/10W (E3,E15)
R894	1-216-821-11	METAL CHIP	1K	5% 1/10W (EA)
R894	1-216-823-11	METAL CHIP	1.5K	5% 1/10W (AUS)
R894	1-216-829-11	METAL CHIP	4.7K	5% 1/10W (E51,AR,MX)
R894	1-216-864-11	SHORT CHIP	0	(PH,SP,MY)
R895	1-216-809-11	METAL CHIP	100	5% 1/10W
R896	1-216-809-11	METAL CHIP	100	5% 1/10W
R897	1-216-809-11	METAL CHIP	100	5% 1/10W
R899	1-216-809-11	METAL CHIP	100	5% 1/10W
R900	1-216-809-11	METAL CHIP	100	5% 1/10W
R901	1-216-833-11	METAL CHIP	10K	5% 1/10W
R902	1-216-809-11	METAL CHIP	100	5% 1/10W
R929	1-216-829-11	METAL CHIP	4.7K	5% 1/10W
R930	1-216-829-11	METAL CHIP	4.7K	5% 1/10W
R947	1-216-833-11	METAL CHIP	10K	5% 1/10W
R948	1-216-833-11	METAL CHIP	10K	5% 1/10W
R972	1-216-833-11	METAL CHIP	10K	5% 1/10W
R973	1-216-833-11	METAL CHIP	10K	5% 1/10W
R974	1-216-833-11	METAL CHIP	10K	5% 1/10W
R975	1-216-833-11	METAL CHIP	10K	5% 1/10W
R993	1-216-829-11	METAL CHIP	4.7K	5% 1/10W
R994	1-216-821-11	METAL CHIP	1K	5% 1/10W (E51,AR,MX)
R994	1-216-829-11	METAL CHIP	4.7K	5% 1/10W (E3,E15,AUS,EA)
< TRANSFORMER >				
T601	1-437-220-11	TRANSFORMER, BIAS OSCILLATION		
< VIBRATOR >				
X800	1-760-252-12	VIBRATOR, CRYSTAL (32.768kHz)		
X801	1-781-107-21	VIBRATOR, CERAMIC (16MHz)		

1-687-133-12 MOTOR (LD) BOARD				

1-687-134-12 MOTOR (TB) BOARD				

< CONNECTOR >				
CN742	1-784-727-11	CONNECTOR, FFC 5P		

Ref. No.	Part No.	Description	Quantity	Remark
A-4751-844-A PANEL BOARD, COMPLETE				

< CAPACITOR >				
C101	1-126-382-11	ELECT	100uF	20% 16V
C102	1-162-974-11	CERAMIC CHIP	0.01uF	50V
C106	1-162-995-11	CERAMIC CHIP	0.022uF	50V
C107	1-162-953-11	CERAMIC CHIP	100PF	5% 50V
C108	1-162-953-11	CERAMIC CHIP	100PF	5% 50V
C109	1-162-953-11	CERAMIC CHIP	100PF	5% 50V
C121	1-126-794-11	ELECT	4.7uF	20% 50V
C122	1-126-794-11	ELECT	4.7uF	20% 50V
C125	1-126-382-11	ELECT	100uF	20% 16V
C126	1-162-974-11	CERAMIC CHIP	0.01uF	50V
C160	1-119-943-11	ELECT	47uF	20% 50V
C161	1-162-974-11	CERAMIC CHIP	0.01uF	50V
C206	1-126-382-11	ELECT	100uF	20% 16V
C207	1-164-156-11	CERAMIC CHIP	0.1uF	25V
C208	1-164-156-11	CERAMIC CHIP	0.1uF	25V
C333	1-162-953-11	CERAMIC CHIP	100PF	5% 50V
C334	1-162-953-11	CERAMIC CHIP	100PF	5% 50V
C335	1-162-953-11	CERAMIC CHIP	100PF	5% 50V
C336	1-162-953-11	CERAMIC CHIP	100PF	5% 50V
C337	1-162-953-11	CERAMIC CHIP	100PF	5% 50V
C338	1-162-953-11	CERAMIC CHIP	100PF	5% 50V
C339	1-162-953-11	CERAMIC CHIP	100PF	5% 50V
C340	1-162-953-11	CERAMIC CHIP	100PF	5% 50V
C341	1-162-953-11	CERAMIC CHIP	100PF	5% 50V
C342	1-162-953-11	CERAMIC CHIP	100PF	5% 50V
C343	1-162-953-11	CERAMIC CHIP	100PF	5% 50V
C344	1-162-953-11	CERAMIC CHIP	100PF	5% 50V
C345	1-162-953-11	CERAMIC CHIP	100PF	5% 50V
< CONNECTOR >				
CN2	1-785-331-11	PIN, CONNECTOR (LIGHT ANGLE) 5P		
CN101	1-784-737-11	CONNECTOR, FFC 15P		
CN103	1-818-282-11	PIN, CONNECTOR 3P		
CN104	1-785-332-11	PIN, CONNECTOR (LIGHT ANGLE) 6P		
< DIODE >				
D192	6-500-809-01	LED SELU5223C-STP15 (I/Ⓢ)		
< FERRITE BEAD >				
FB101	1-469-869-21	INDUCTOR (EMI FERRITE) (2012)		
FB102	1-469-869-21	INDUCTOR (EMI FERRITE) (2012)		
< FLUORESCENT INDICATOR >				
FL1001	1-518-989-11	INDICATOR TUBE, FLUORESCENT		
< IC >				
IC101	6-804-223-01	IC uPD780232GC-504-8BT-A		
< TRANSISTOR >				
Q134	8-729-907-00	TRANSISTOR DTC114EU		
Q135	8-729-907-00	TRANSISTOR DTC114EU		
Q136	8-729-907-00	TRANSISTOR DTC114EU		
Q137	8-729-907-00	TRANSISTOR DTC114EU		

HCD-RV777D/RV888D/RV999D

PANEL

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
Q138	8-729-907-00	TRANSISTOR DTC114EU		R138	1-216-813-11	METAL CHIP 220	5% 1/10W
Q139	8-729-907-00	TRANSISTOR DTC114EU		R140	1-216-841-11	METAL CHIP 47K	5% 1/10W
		< RESISTOR >		R141	1-216-841-11	METAL CHIP 47K	5% 1/10W
R11	1-216-817-11	METAL CHIP 470	5% 1/10W	R142	1-216-841-11	METAL CHIP 47K	5% 1/10W
R12	1-216-819-11	METAL CHIP 680	5% 1/10W	R143	1-216-841-11	METAL CHIP 47K	5% 1/10W
R13	1-216-821-11	METAL CHIP 1K	5% 1/10W	R144	1-216-841-11	METAL CHIP 47K	5% 1/10W
R14	1-216-823-11	METAL CHIP 1.5K	5% 1/10W	R145	1-216-841-11	METAL CHIP 47K	5% 1/10W
R15	1-216-823-11	METAL CHIP 1.5K	5% 1/10W	R146	1-216-841-11	METAL CHIP 47K	5% 1/10W
R16	1-216-825-11	METAL CHIP 2.2K	5% 1/10W	R147	1-216-841-11	METAL CHIP 47K	5% 1/10W
R17	1-216-827-11	METAL CHIP 3.3K	5% 1/10W	R148	1-216-841-11	METAL CHIP 47K	5% 1/10W
R18	1-216-829-11	METAL CHIP 4.7K	5% 1/10W	R149	1-216-841-11	METAL CHIP 47K	5% 1/10W
R19	1-218-867-11	METAL CHIP 6.8K	0.5% 1/10W	R150	1-216-841-11	METAL CHIP 47K	5% 1/10W
R20	1-216-833-11	METAL CHIP 10K	5% 1/10W	R151	1-216-841-11	METAL CHIP 47K	5% 1/10W
R31	1-216-817-11	METAL CHIP 470	5% 1/10W	R152	1-216-841-11	METAL CHIP 47K	5% 1/10W
R32	1-216-819-11	METAL CHIP 680	5% 1/10W	R153	1-216-841-11	METAL CHIP 47K	5% 1/10W
R33	1-216-821-11	METAL CHIP 1K	5% 1/10W	R154	1-216-841-11	METAL CHIP 47K	5% 1/10W
R34	1-216-823-11	METAL CHIP 1.5K	5% 1/10W	R155	1-216-841-11	METAL CHIP 47K	5% 1/10W
R35	1-216-823-11	METAL CHIP 1.5K	5% 1/10W	R156	1-216-841-11	METAL CHIP 47K	5% 1/10W
R36	1-216-825-11	METAL CHIP 2.2K	5% 1/10W	R157	1-216-841-11	METAL CHIP 47K	5% 1/10W
R37	1-216-827-11	METAL CHIP 3.3K	5% 1/10W	R158	1-216-841-11	METAL CHIP 47K	5% 1/10W
R38	1-216-829-11	METAL CHIP 4.7K	5% 1/10W	R159	1-216-841-11	METAL CHIP 47K	5% 1/10W
R39	1-218-867-11	METAL CHIP 6.8K	0.5% 1/10W	R160	1-216-841-11	METAL CHIP 47K	5% 1/10W
R40	1-216-833-11	METAL CHIP 10K	5% 1/10W	R161	1-216-841-11	METAL CHIP 47K	5% 1/10W
R51	1-216-817-11	METAL CHIP 470	5% 1/10W	R162	1-216-841-11	METAL CHIP 47K	5% 1/10W
R52	1-216-819-11	METAL CHIP 680	5% 1/10W	R163	1-216-841-11	METAL CHIP 47K	5% 1/10W
R53	1-216-821-11	METAL CHIP 1K	5% 1/10W	R164	1-216-841-11	METAL CHIP 47K	5% 1/10W
R54	1-216-823-11	METAL CHIP 1.5K	5% 1/10W	R165	1-216-841-11	METAL CHIP 47K	5% 1/10W
R55	1-216-823-11	METAL CHIP 1.5K	5% 1/10W	R166	1-216-841-11	METAL CHIP 47K	5% 1/10W
R56	1-216-825-11	METAL CHIP 2.2K	5% 1/10W	R167	1-216-841-11	METAL CHIP 47K	5% 1/10W
R57	1-216-827-11	METAL CHIP 3.3K	5% 1/10W	R168	1-216-841-11	METAL CHIP 47K	5% 1/10W
R58	1-216-829-11	METAL CHIP 4.7K	5% 1/10W	R169	1-216-841-11	METAL CHIP 47K	5% 1/10W
R59	1-218-867-11	METAL CHIP 6.8K	0.5% 1/10W	R170	1-216-841-11	METAL CHIP 47K	5% 1/10W
R60	1-216-833-11	METAL CHIP 10K	5% 1/10W	R171	1-216-841-11	METAL CHIP 47K	5% 1/10W
R61	1-216-835-11	METAL CHIP 15K	5% 1/10W	R172	1-216-841-11	METAL CHIP 47K	5% 1/10W
R105	1-216-821-11	METAL CHIP 1K	5% 1/10W	R173	1-216-841-11	METAL CHIP 47K	5% 1/10W
R106	1-216-821-11	METAL CHIP 1K	5% 1/10W	R205	1-216-828-11	METAL CHIP 3.9K	5% 1/10W
R107	1-216-809-11	METAL CHIP 100	5% 1/10W	R206	1-216-851-11	METAL CHIP 330K	5% 1/10W
R108	1-216-809-11	METAL CHIP 100	5% 1/10W			< SWITCH >	
R109	1-216-825-11	METAL CHIP 2.2K	5% 1/10W	S11	1-762-875-21	SWITCH, KEYBOARD (I/⏻)	
R115	1-216-821-11	METAL CHIP 1K	5% 1/10W	S12	1-762-875-21	SWITCH, KEYBOARD (DISPLAY)	
R116	1-216-821-11	METAL CHIP 1K	5% 1/10W	S13	1-762-875-21	SWITCH, KEYBOARD (EQ BAND)	
R117	1-216-833-11	METAL CHIP 10K	5% 1/10W	S14	1-762-875-21	SWITCH, KEYBOARD (DISC 1)	
R118	1-216-833-11	METAL CHIP 10K	5% 1/10W	S15	1-762-875-21	SWITCH, KEYBOARD (DISC 2)	
R123	1-216-835-11	METAL CHIP 15K	5% 1/10W	S16	1-762-875-21	SWITCH, KEYBOARD (DISC 3)	
R124	1-216-835-11	METAL CHIP 15K	5% 1/10W	S17	1-762-875-21	SWITCH, KEYBOARD (DISC SKIP/EX-CHANGE)	
R125	1-216-835-11	METAL CHIP 15K	5% 1/10W	S18	1-762-875-21	SWITCH, KEYBOARD (▲)	
R127	1-216-813-11	METAL CHIP 220	5% 1/10W	S19	1-762-875-21	SWITCH, KEYBOARD (KARAOKE/MPX)	
R128	1-216-813-11	METAL CHIP 220	5% 1/10W	S20	1-762-875-21	SWITCH, KEYBOARD (P FILE)	
R129	1-216-813-11	METAL CHIP 220	5% 1/10W	S21	1-762-875-21	SWITCH, KEYBOARD (PRESET EQ)	
R130	1-216-813-11	METAL CHIP 220	5% 1/10W	S22	1-762-875-21	SWITCH, KEYBOARD (ENTER)	
R131	1-216-813-11	METAL CHIP 220	5% 1/10W	S31	1-762-875-21	SWITCH, KEYBOARD (DVD)	
R132	1-216-813-11	METAL CHIP 220	5% 1/10W	S32	1-762-875-21	SWITCH, KEYBOARD (TUNER/BAND)	
R133	1-216-813-11	METAL CHIP 220	5% 1/10W	S33	1-762-875-21	SWITCH, KEYBOARD (TAPE A/B)	
R134	1-216-813-11	METAL CHIP 220	5% 1/10W	S34	1-762-875-21	SWITCH, KEYBOARD (GAME)	
R135	1-216-813-11	METAL CHIP 220	5% 1/10W	S35	1-762-875-21	SWITCH, KEYBOARD (VIDEO/SAT)	
R136	1-216-813-11	METAL CHIP 220	5% 1/10W	S36	1-762-875-21	SWITCH, KEYBOARD (ILLUMINATION)	
R137	1-216-813-11	METAL CHIP 220	5% 1/10W				

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
S37	1-762-875-21	SWITCH, KEYBOARD (PLAY MODE/TUNING MODE)		C016	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V
S38	1-762-875-21	SWITCH, KEYBOARD (GAME MIXING)		C017	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V
S39	1-762-875-21	SWITCH, KEYBOARD (CD SYNC)		C018	1-164-172-11	CERAMIC CHIP 0.0056uF 10%	25V
S40	1-762-875-21	SWITCH, KEYBOARD (REC PAUSE/START)		C019	1-164-172-11	CERAMIC CHIP 0.0056uF 10%	25V
S51	1-762-875-21	SWITCH, KEYBOARD (GROOVE)		C020	1-162-919-11	CERAMIC CHIP 22PF 5%	50V
S52	1-762-875-21	SWITCH, KEYBOARD (SOUND FIELD)		C021	1-162-919-11	CERAMIC CHIP 22PF 5%	50V
S53	1-762-875-21	SWITCH, KEYBOARD (EFFECT ON/OFF)		C022	1-162-919-11	CERAMIC CHIP 22PF 5%	50V
S54	1-762-875-21	SWITCH, KEYBOARD (TUNING +)		C023	1-162-919-11	CERAMIC CHIP 22PF 5%	50V
S55	1-762-875-21	SWITCH, KEYBOARD (>/<)		C024	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
S56	1-762-875-21	SWITCH, KEYBOARD (▶▶ ALBUM +)		C025	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
S57	1-762-875-21	SWITCH, KEYBOARD (◀◀ ALBUM -)		C026	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
S58	1-762-875-21	SWITCH, KEYBOARD (■)		C027	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
S59	1-762-875-21	SWITCH, KEYBOARD (■)		C028	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
S60	1-762-875-21	SWITCH, KEYBOARD (TUNING -)		C029	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
		< VIBRATOR >		C030	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
X101	1-795-058-21	VIBRATOR, CERAMIC (5MHz)		C031	1-115-416-11	CERAMIC CHIP 0.001uF 5%	25V
*****				C032	1-165-176-11	CERAMIC CHIP 0.047uF 10%	16V
P-STREAM BOARD				C033	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
*****				C034	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
< DIODE >				C035	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
D134	6-500-809-01	LED SELU5223C-STP15 (ILLUMINATION)		C036	1-125-891-11	CERAMIC CHIP 0.47uF 10%	10V
D135	6-500-809-01	LED SELU5223C-STP15 (ILLUMINATION)		C037	1-115-412-11	CERAMIC CHIP 680PF 5%	25V
D136	6-500-809-01	LED SELU5223C-STP15 (ILLUMINATION)		C038	1-164-677-11	CERAMIC CHIP 0.033uF 10%	16V
D137	6-500-809-01	LED SELU5223C-STP15 (ILLUMINATION)		C039	1-164-677-11	CERAMIC CHIP 0.033uF 10%	16V
D138	6-500-809-01	LED SELU5223C-STP15 (ILLUMINATION)		C040	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
D139	6-500-809-01	LED SELU5223C-STP15 (ILLUMINATION)		C041	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
< RESISTOR >				C042	1-164-218-11	CERAMIC CHIP 180PF 5%	50V
R62	1-216-837-11	METAL CHIP 22K 5% 1/10W		C049	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
R119	1-216-864-11	SHORT CHIP 0		C050	1-162-967-11	CERAMIC CHIP 0.0033uF 10%	50V
R120	1-216-864-11	SHORT CHIP 0		C051	1-125-891-11	CERAMIC CHIP 0.47uF 10%	10V
< SWITCH >				C052	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
S102	1-418-632-11	ENCODER, ROTARY (MASTER VOLUME)		< CONNECTOR >			
S701	1-786-289-11	SWITCH, DETECTION (◀◀◀ - EQ + ▶▶▶)		CN001	1-815-031-11	CONNECTOR, FFC/FPC (ZIF) 24P	
*****				CN002	1-784-836-21	CONNECTOR, FFC (LIF(NON-ZIF)) 29P	
A-4728-690-A	RF BOARD, COMPLETE	*****		CN003	1-784-861-21	CONNECTOR, FFC (LIF(NON-ZIF)) 9P	
< CAPACITOR >				< DIODE >			
C001	1-126-206-11	ELECT CHIP 100uF 20% 6.3V		D001	8-719-988-61	DIODE 1SS355TE-17	
C002	1-124-779-00	ELECT CHIP 10uF 20% 16V		D002	8-719-988-61	DIODE 1SS355TE-17	
C003	1-126-206-11	ELECT CHIP 100uF 20% 6.3V		< IC >			
C004	1-124-779-00	ELECT CHIP 10uF 20% 16V		IC001	6-703-922-01	IC SP3723CAF0PM	
C005	1-128-993-21	ELECT CHIP 22uF 20% 10V		IC003	6-703-921-01	IC TL343IDBVR	
C006	1-128-993-21	ELECT CHIP 22uF 20% 10V		< COIL >			
C008	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		L001	1-412-031-11	INDUCTOR 47uH	
C009	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		L002	1-412-031-11	INDUCTOR 47uH	
C010	1-115-416-11	CERAMIC CHIP 0.001uF 5% 25V		< TRANSISTOR >			
C011	1-115-416-11	CERAMIC CHIP 0.001uF 5% 25V		Q001	8-729-903-46	TRANSISTOR 2SB1132-P	
C012	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		Q002	8-729-903-46	TRANSISTOR 2SB1132-P	
C013	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		< RESISTOR >			
C014	1-162-966-11	CERAMIC CHIP 0.0022uF 10% 50V		R001	1-218-668-11	METAL CHIP 100 0.5% 1/10W	
C015	1-162-966-11	CERAMIC CHIP 0.0022uF 10% 50V		R003	1-216-803-11	METAL CHIP 33 5% 1/10W	
				R004	1-216-803-11	METAL CHIP 33 5% 1/10W	

HCD-RV777D/RV888D/RV999D

RF	SENSOR	SIRCS	SUB TRANS	SURROUND AMP
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Ref. No.	Part No.	Description	Remark
R005	1-216-841-11	METAL CHIP 47K 5%	1/10W
R006	1-216-817-11	METAL CHIP 470 5%	1/10W
R007	1-216-803-11	METAL CHIP 33 5%	1/10W
R008	1-216-803-11	METAL CHIP 33 5%	1/10W
R009	1-216-841-11	METAL CHIP 47K 5%	1/10W
R010	1-216-817-11	METAL CHIP 470 5%	1/10W
R011	1-216-864-11	SHORT CHIP 0	
R012	1-216-864-11	SHORT CHIP 0	
R013	1-216-864-11	SHORT CHIP 0	
R014	1-216-864-11	SHORT CHIP 0	
R015	1-216-864-11	SHORT CHIP 0	
R016	1-216-864-11	SHORT CHIP 0	
R017	1-216-864-11	SHORT CHIP 0	
R018	1-216-864-11	SHORT CHIP 0	
R019	1-216-864-11	SHORT CHIP 0	
R020	1-216-864-11	SHORT CHIP 0	
R021	1-216-864-11	SHORT CHIP 0	
R022	1-216-813-11	METAL CHIP 220 5%	1/10W
R023	1-216-820-11	METAL CHIP 820 5%	1/10W
R024	1-216-864-11	SHORT CHIP 0	
R025	1-216-809-11	METAL CHIP 100 5%	1/10W
R026	1-218-718-11	METAL CHIP 12K 0.5%	1/10W
R027	1-216-864-11	SHORT CHIP 0	
R028	1-216-864-11	SHORT CHIP 0	
R029	1-216-864-11	SHORT CHIP 0	
R031	1-216-809-11	METAL CHIP 100 5%	1/10W
R033	1-216-845-11	METAL CHIP 100K 5%	1/10W
R034	1-216-817-11	METAL CHIP 470 5%	1/10W
R035	1-216-864-11	SHORT CHIP 0	
R041	1-216-821-11	METAL CHIP 1K 5%	1/10W
R046	1-216-833-11	METAL CHIP 10K 5%	1/10W
R047	1-216-839-11	METAL CHIP 33K 5%	1/10W
R091	1-218-913-11	METAL CHIP 560K 0.5%	1/10W

1-687-132-12 SENSOR BOARD

< CONNECTOR >

CN731 1-785-329-21 PIN, CONNECTOR (LIGHT ANGLE) 3P
< IC >

IC731 6-600-022-01 IC RPI-576

SIRCS BOARD

< CAPACITOR >
C205 1-162-974-11 CERAMIC CHIP 0.01uF 50V
< CONNECTOR >

CN113 1-816-423-11 SOCKET, CONNECTOR 3P
< IC >

IC202 6-600-174-01 IC RPM7240-H4 (IR)

Ref. No. Part No. Description Remark
SUB TRANS BOARD

1-533-217-41 HOLDER, FUSE
< CAPACITOR >

△ C901 1-113-925-11 CERAMIC 0.01uF 20% 250V
C902 1-126-768-11 ELECT 2200uF 20% 16V
C903 1-126-933-11 ELECT 100uF 20% 16V

< CONNECTOR >
CN901 1-564-321-00 PIN, CONNECTOR (3.96mm PITCH) 2P
* CN902 1-564-321-21 PIN, CONNECTOR (3.96mm PITCH) 2P (AUS,AR,MX)
CN902 1-568-106-11 PIN, CONNECTOR (3.96mm PITCH) 4P (EXCEPT AUS,AR,MX)
CN903 1-506-468-11 PIN, CONNECTOR 3P

< DIODE >
D901 8-719-991-33 DIODE 1SS133T-77
△ D902 6-500-522-11 DIODE 10EDB40-TA2B5
△ D903 6-500-522-11 DIODE 10EDB40-TA2B5
△ D904 6-500-522-11 DIODE 10EDB40-TA2B5
△ D905 6-500-522-11 DIODE 10EDB40-TA2B5

< IC >
IC901 6-701-760-01 IC uPC3504AHF

< TRANSISTOR >
Q901 8-729-119-78 TRANSISTOR 2SC2785-HFE

< RESISTOR >
R901 1-249-429-11 CARBON 10K 5% 1/4W
R904 1-247-791-11 CARBON 22 5% 1/4W

< RELAY >
△ RY901 1-755-467-11 RELAY (POWER)

< SWITCH >
△ S901 1-786-055-21 SELECTOR, VOLTAGE (VOLTAGE SELECTOR) (EXCEPT AUS,AR,MX)

< TRANSFORMER >
△ T901 1-437-677-11 TRANSFORMER, POWER

A-1053-983-A SURROUND AMP BOARD, COMPLETE (RV888D)
A-4751-859-A SURROUND AMP BOARD, COMPLETE (RV999D)

7-685-872-09 SCREW +BVTT 3X8 (S) (RV888D/RV999D)
< CAPACITOR >

C301 1-126-964-11 ELECT 10uF 20% 50V (RV888D/RV999D)
C302 1-162-294-31 CERAMIC 0.001uF 10% 50V (RV888D/RV999D)
C303 1-162-286-31 CERAMIC 220PF 10% 50V (RV888D/RV999D)

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

SURROUND AMP

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C304	1-126-964-11	ELECT	10uF 20% 50V (RV888D/RV999D)			< DIODE >	
C306	1-136-497-81	FILM	0.1uF 5% 50V (RV888D/RV999D)	D301	8-719-991-33	DIODE 1SS133T-77 (RV888D/RV999D)	
C307	1-136-497-81	FILM	0.1uF 5% 50V (RV888D/RV999D)	D341	8-719-991-33	DIODE 1SS133T-77 (RV888D/RV999D)	
C308	1-126-968-11	ELECT	100uF 20% 50V (RV888D/RV999D)	D351	8-719-991-33	DIODE 1SS133T-77 (RV888D/RV999D)	
C310	1-162-199-31	CERAMIC	10PF 5% 50V (RV888D/RV999D)	D371	8-719-510-68	DIODE D5SBA204101 (RV888D/RV999D)	
C311	1-162-199-31	CERAMIC	10PF 5% 50V (RV888D/RV999D)	D381	8-719-991-33	DIODE 1SS133T-77 (RV888D/RV999D)	
C312	1-162-199-31	CERAMIC	10PF 5% 50V (RV888D/RV999D)	D382	8-719-991-33	DIODE 1SS133T-77 (RV888D/RV999D)	
C341	1-126-964-11	ELECT	10uF 20% 50V (RV888D/RV999D)	D391	8-719-991-33	DIODE 1SS133T-77 (RV888D/RV999D)	
C342	1-162-294-31	CERAMIC	0.001uF 10% 50V (RV888D/RV999D)	D491	8-719-991-33	DIODE 1SS133T-77 (RV888D/RV999D)	
C343	1-162-286-31	CERAMIC	220PF 10% 50V (RV888D/RV999D)			< IC >	
C344	1-126-964-11	ELECT	10uF 20% 50V (RV888D/RV999D)	IC301	6-600-361-01	IC STK403-250A (RV888D/RV999D)	
C346	1-136-497-81	FILM	0.1uF 5% 50V (RV888D/RV999D)			< COIL >	
C347	1-136-497-81	FILM	0.1uF 5% 50V (RV888D/RV999D)	L381	1-422-009-13	COIL, AIR-CORE (RV888D/RV999D)	
C351	1-126-964-11	ELECT	10uF 20% 50V (RV888D/RV999D)	L382	1-422-009-13	COIL, AIR-CORE (RV888D/RV999D)	
C352	1-162-294-31	CERAMIC	0.001uF 10% 50V (RV888D/RV999D)	L383	1-422-009-13	COIL, AIR-CORE (RV888D/RV999D)	
C353	1-162-286-31	CERAMIC	220PF 10% 50V (RV888D/RV999D)			< TRANSISTOR >	
C354	1-126-964-11	ELECT	10uF 20% 50V (RV888D/RV999D)	Q301	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA (RV888D/RV999D)	
C356	1-136-497-81	FILM	0.1uF 5% 50V (RV888D/RV999D)	Q316	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA (RV888D/RV999D)	
C357	1-136-497-81	FILM	0.1uF 5% 50V (RV888D/RV999D)	Q317	8-729-119-78	TRANSISTOR 2SC2785-HFE (RV888D/RV999D)	
C371	1-136-153-00	FILM	0.01uF 5% 50V (RV888D/RV999D)	Q341	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA (RV888D/RV999D)	
C372	1-136-153-00	FILM	0.01uF 5% 50V (RV888D/RV999D)	Q351	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA (RV888D/RV999D)	
C373	1-137-844-21	ELECT	2200uF 20% 42V (RV888D/RV999D)	Q381	8-729-026-39	TRANSISTOR 2SA933AS-QT (RV888D/RV999D)	
C374	1-137-844-21	ELECT	2200uF 20% 42V (RV888D/RV999D)	Q383	8-729-026-39	TRANSISTOR 2SA933AS-QT (RV888D/RV999D)	
C381	1-136-497-81	FILM	0.1uF 5% 50V (RV888D/RV999D)	Q384	8-729-029-66	TRANSISTOR DTC114ESA (RV888D/RV999D)	
C382	1-136-497-81	FILM	0.1uF 5% 50V (RV888D/RV999D)			< RESISTOR >	
C383	1-136-497-81	FILM	0.1uF 5% 50V (RV888D/RV999D)	R301	1-247-831-11	CARBON 1K 5% 1/4W (RV888D/RV999D)	
C384	1-136-497-81	FILM	0.1uF 5% 50V (RV888D/RV999D)	R302	1-247-871-11	CARBON 47K 5% 1/4W (RV888D/RV999D)	
C385	1-136-497-81	FILM	0.1uF 5% 50V (RV888D/RV999D)	R303	1-249-416-11	CARBON 820 5% 1/4W (RV888D/RV999D)	
C386	1-136-497-81	FILM	0.1uF 5% 50V (RV888D/RV999D)	R304	1-247-871-11	CARBON 47K 5% 1/4W (RV888D/RV999D)	
		< CONNECTOR >		△ R305	1-245-235-21	METAL 0.22 10% 2W F (RV888D/RV999D)	
CN302	1-785-318-11	PIN, CONNECTOR (STRAIGHT) 6P (RV888D/RV999D)		R307	1-247-831-11	CARBON 1K 5% 1/4W (RV888D/RV999D)	
CN372	1-564-506-11	PLUG, CONNECTOR 3P (RV888D/RV999D)		R308	1-249-431-11	CARBON 15K 5% 1/4W (RV888D/RV999D)	
				R309	1-247-879-11	CARBON 100K 5% 1/4W (RV888D/RV999D)	
				R310	1-260-076-11	CARBON 10 5% 1/2W F (RV888D/RV999D)	
				△ R311	1-212-881-11	FUSIBLE 100 5% 1/4W F (RV888D/RV999D)	
				R314	1-249-427-11	CARBON 6.8K 5% 1/4W (RV888D/RV999D)	
				R315	1-247-863-11	CARBON 22K 5% 1/4W (RV888D/RV999D)	

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HCD-RV777D/RV888D/RV999D

SURROUND AMP	SW	TRANS
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Ref. No.	Part No.	Description	Remark
R316	1-247-879-11	CARBON	100K 5% 1/4W (RV888D/RV999D)
R317	1-247-879-11	CARBON	100K 5% 1/4W (RV888D/RV999D)
R318	1-249-429-11	CARBON	10K 5% 1/4W (RV888D/RV999D)
R319	1-247-879-11	CARBON	100K 5% 1/4W (RV888D/RV999D)
△R320	1-202-972-61	FUSIBLE	1 5% 1/4W F (RV888D/RV999D)
△R321	1-202-972-61	FUSIBLE	1 5% 1/4W F (RV888D/RV999D)
R331	1-247-871-11	CARBON	47K 5% 1/4W (RV888D/RV999D)
R332	1-247-873-11	CARBON	56K 5% 1/4W (RV888D/RV999D)
R333	1-249-439-11	CARBON	68K 5% 1/4W (RV888D/RV999D)
R341	1-247-831-11	CARBON	1K 5% 1/4W (RV888D/RV999D)
R342	1-247-871-11	CARBON	47K 5% 1/4W (RV888D/RV999D)
R343	1-249-416-11	CARBON	820 5% 1/4W (RV888D/RV999D)
R344	1-247-871-11	CARBON	47K 5% 1/4W (RV888D/RV999D)
△R345	1-245-235-21	METAL	0.22 10% 2W F (RV888D/RV999D)
R347	1-247-831-11	CARBON	1K 5% 1/4W (RV888D/RV999D)
R348	1-249-431-11	CARBON	15K 5% 1/4W (RV888D/RV999D)
R349	1-247-879-11	CARBON	100K 5% 1/4W (RV888D/RV999D)
R350	1-260-076-11	CARBON	10 5% 1/2W F (RV888D/RV999D)
R351	1-247-831-11	CARBON	1K 5% 1/4W (RV888D/RV999D)
R352	1-247-871-11	CARBON	47K 5% 1/4W (RV888D/RV999D)
R353	1-249-416-11	CARBON	820 5% 1/4W (RV888D/RV999D)
R354	1-247-871-11	CARBON	47K 5% 1/4W (RV888D/RV999D)
△R355	1-245-235-21	METAL	0.22 10% 2W F (RV888D/RV999D)
R357	1-247-831-11	CARBON	1K 5% 1/4W (RV888D/RV999D)
R358	1-249-431-11	CARBON	15K 5% 1/4W (RV888D/RV999D)
R359	1-247-879-11	CARBON	100K 5% 1/4W (RV888D/RV999D)
R360	1-260-076-11	CARBON	10 5% 1/2W F (RV888D/RV999D)
R373	1-247-879-11	CARBON	100K 5% 1/4W (RV888D/RV999D)
R374	1-247-879-11	CARBON	100K 5% 1/4W (RV888D/RV999D)
R381	1-260-076-11	CARBON	10 5% 1/2W F (RV888D/RV999D)
R382	1-260-076-11	CARBON	10 5% 1/2W F (RV888D/RV999D)

Ref. No.	Part No.	Description	Remark
R383	1-260-076-11	CARBON	10 5% 1/2W F (RV888D/RV999D)
R385	1-260-076-11	CARBON	10 5% 1/2W F (RV888D/RV999D)
R386	1-260-076-11	CARBON	10 5% 1/2W F (RV888D/RV999D)
R390	1-249-429-11	CARBON	10K 5% 1/4W (RV888D/RV999D)
R391	1-260-076-11	CARBON	10 5% 1/2W F (RV888D/RV999D)
△R394	1-216-451-11	METAL OXIDE	120 5% 2W F (RV888D/RV999D)
R395	1-249-429-11	CARBON	10K 5% 1/4W (RV888D/RV999D)
R396	1-247-863-11	CARBON	22K 5% 1/4W (RV888D/RV999D)
R397	1-247-831-11	CARBON	1K 5% 1/4W (RV888D/RV999D)
R398	1-247-863-11	CARBON	22K 5% 1/4W (RV888D/RV999D)
△R399	1-216-451-11	METAL OXIDE	120 5% 2W F (RV888D/RV999D)
< RELAY >			
RY381	1-515-920-11	RELAY (RV888D/RV999D)	
RY382	1-515-920-11	RELAY (RV888D/RV999D)	
< THERMISTOR >			
TH301	1-807-796-11	THERMISTOR (RV888D/RV999D)	
< TERMINAL BOARD >			
TM401	1-694-674-22	TERMINAL BOARD (6P) (SURROUND SPEAKER, CENTER SPEAKER) (RV888D/RV999D)	

	1-687-669-12	SW BOARD	*****
< SWITCH >			
S751	1-786-514-11	SWITCH, LEVER (SLIDE)	(OPEN/CLOSE DETECT)

	A-1053-996-A	TRANS BOARD, COMPLETE (AUS)	
	A-1053-997-A	TRANS BOARD, COMPLETE (E51)	
	A-1053-998-A	TRANS BOARD, COMPLETE (MX)	
	A-1053-999-A	TRANS BOARD, COMPLETE (AR)	
	A-4751-863-A	TRANS BOARD, COMPLETE	(RV888D:EXCEPT AUS/ RV999D:EXCEPT E51,AUS,AR,MX)
	A-4751-866-A	TRANS BOARD, COMPLETE (RV777D)	*****
	1-533-217-41	HOLDER, FUSE	
< CAPACITOR >			
C912	1-126-960-11	ELECT	1uF 20% 50V
C913	1-126-968-11	ELECT	100uF 20% 50V
C915	1-164-159-11	CERAMIC	0.1uF 50V
C918	1-128-576-11	ELECT	100uF 20% 63V

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TRANS

VIDEO

Ref. No.	Part No.	Description	Remark			
		< CONNECTOR >				
* CN913	1-564-518-11	PLUG, CONNECTOR 3P (RV888D/RV999D)				
* CN914	1-564-525-11	PLUG, CONNECTOR 10P				
* CN915	1-564-519-11	PLUG, CONNECTOR 4P				
		< DIODE >				
D911	6-500-522-11	DIODE 10EDB40-TA2B5				
D912	8-719-982-19	DIODE MTZJ-30A				
D913	8-719-118-67	DIODE RD6.2F-T7B3				
		< TRANSISTOR >				
Q971	8-729-140-97	TRANSISTOR 2SB734-34				
		< RESISTOR >				
△ R911	1-217-637-00	FUSIBLE	1	5%	1/4W	F
R914	1-249-429-11	CARBON	10K	5%	1/4W	
R915	1-247-807-31	CARBON	100	5%	1/4W	
R916	1-247-807-31	CARBON	100	5%	1/4W	
R938	1-249-429-11	CARBON	10K	5%	1/4W	

	A-4751-861-A	VIDEO BOARD, COMPLETE				

	7-685-872-09	SCREW +BVTT 3X8 (S)				
		< CAPACITOR >				
C800	1-104-655-11	ELECT	470uF	20%	6.3V	
C801	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C802	1-126-960-11	ELECT	1uF	20%	50V	
C804	1-126-960-11	ELECT	1uF	20%	50V	
C805	1-162-282-31	CERAMIC	100PF	10%	50V	
C806	1-126-960-11	ELECT	1uF	20%	50V	
C807	1-104-658-11	ELECT	100uF	20%	10V	
C808	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C809	1-162-282-31	CERAMIC	100PF	10%	50V	
C810	1-162-282-31	CERAMIC	100PF	10%	50V	
C811	1-162-282-31	CERAMIC	100PF	10%	50V	
C812	1-126-960-11	ELECT	1uF	20%	50V	
C813	1-162-282-31	CERAMIC	100PF	10%	50V	
C814	1-126-960-11	ELECT	1uF	20%	50V	
C816	1-126-960-11	ELECT	1uF	20%	50V	
C818	1-126-916-11	ELECT	1000uF	20%	6.3V	
C821	1-126-916-11	ELECT	1000uF	20%	6.3V	
C824	1-126-916-11	ELECT	1000uF	20%	6.3V	
C827	1-126-916-11	ELECT	1000uF	20%	6.3V	
C830	1-126-916-11	ELECT	1000uF	20%	6.3V	
C833	1-164-159-11	CERAMIC	0.1uF		50V	
C836	1-126-964-11	ELECT	10uF	20%	50V	
C837	1-162-282-31	CERAMIC	100PF	10%	50V	
C838	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C839	1-104-658-11	ELECT	100uF	20%	10V	
C840	1-162-282-31	CERAMIC	100PF	10%	50V	
C841	1-104-655-11	ELECT	470uF	20%	6.3V	
C851	1-126-923-11	ELECT	220uF	20%	10V	
C852	1-126-956-11	ELECT	0.1uF	20%	50V	
C860	1-126-942-61	ELECT	1000uF	20%	25V	
C861	1-117-245-11	ELECT	330uF	20%	6.3V	

Ref. No.	Part No.	Description	Remark			
C862	1-128-646-11	ELECT	1000uF	20%	6.3V	
C863	1-117-317-11	ELECT	1000uF	20%	25V	
C871	1-117-245-11	ELECT	330uF	20%	6.3V	
C872	1-128-646-11	ELECT	1000uF	20%	6.3V	
C873	1-117-317-11	ELECT	1000uF	20%	25V	
C876	1-117-245-11	ELECT	330uF	20%	6.3V	
C877	1-117-245-11	ELECT	330uF	20%	6.3V	
		< CONNECTOR >				
CN801	1-784-213-11	CONNECTOR, FFC (LIF(NON-ZIF)) 15P				
CN802	1-785-328-11	PIN, CONNECTOR (LIGHT ANGLE) 2P				
* CN804	1-564-731-11	PIN, CONNECTOR (SMALL TYPE) 15P				
CN805	1-779-273-11	CONNECTOR, FFC (LIF(NON-ZIF)) 5P				
		< DIODE >				
D838	8-719-991-33	DIODE 1SS133T-77				
D861	8-719-210-21	DIODE 11EQS04				
D871	8-719-210-21	DIODE 11EQS04				
		< GROUND TERMINAL BOARD >				
EP801	1-537-771-21	TERMINAL BOARD, GROUND				
EP802	1-537-771-21	TERMINAL BOARD, GROUND				
		< COIL >				
FB835	1-412-473-21	INDUCTOR (SMALL TYPE)				
		< IC >				
IC801	6-705-602-01	IC MM1623BFBE				
IC802	8-759-295-90	IC NJM2244M-TE2				
IC803	8-759-231-53	IC TA7805S				
IC804	8-759-659-28	IC SI-8033S				
IC805	8-759-474-09	IC SI-8050S-LF1101				
		< JACK >				
J801	1-817-449-11	JACK, PIN 3P (COMPONENT VIDEO OUT)				
J802	1-794-970-11	JACK, PIN 1P (VIDEO OUT)				
J803	1-537-943-11	CONNECTOR (DIN) 1P (S VIDEO OUT)				
		< COIL >				
L800	1-410-470-11	INDUCTOR	10uH			
L861	1-456-513-11	COIL, CHOKE	150uH			
L862	1-410-397-21	INDUCTOR, FERRITE BEAD				
L871	1-456-513-11	COIL, CHOKE	150uH			
L872	1-414-741-11	INDUCTOR	10uH			
		< TRANSISTOR >				
Q851	8-729-029-21	TRANSISTOR DTA114ESA-TP				
Q852	8-729-029-66	TRANSISTOR DTC114ESA				
Q853	8-729-029-66	TRANSISTOR DTC114ESA				
Q855	8-729-029-66	TRANSISTOR DTC114ESA				
Q857	8-729-029-66	TRANSISTOR DTC114ESA				
		< RESISTOR >				
R803	1-249-429-11	CARBON	10K	5%	1/4W	
R815	1-249-429-11	CARBON	10K	5%	1/4W	
R818	1-247-804-11	CARBON	75	5%	1/4W	
R821	1-247-804-11	CARBON	75	5%	1/4W	
R824	1-247-804-11	CARBON	75	5%	1/4W	

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VIDEO

Ref. No.	Part No.	Description			Remark
R827	1-247-804-11	CARBON	75	5%	1/4W
R831	1-249-429-11	CARBON	10K	5%	1/4W
R833	1-247-804-11	CARBON	75	5%	1/4W
R834	1-249-429-11	CARBON	10K	5%	1/4W
R835	1-249-429-11	CARBON	10K	5%	1/4W
R836	1-247-847-11	CARBON	4.7K	5%	1/4W
R837	1-247-871-11	CARBON	47K	5%	1/4W
R838	1-249-403-11	CARBON	68	5%	1/4W
R839	1-247-879-11	CARBON	100K	5%	1/4W
R840	1-247-879-11	CARBON	100K	5%	1/4W
R850	1-247-807-31	CARBON	100	5%	1/4W
R851	1-249-429-11	CARBON	10K	5%	1/4W

Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	

2	1-828-965-11	WIRE (FLAT TYPE) (11 CORE)	
52	1-796-487-61	DECK, MECHANICAL	
56	1-828-974-11	WIRE (FLAT TYPE) (13 CORE)	
58	1-828-338-11	WIRE (FLAT TYPE) (15 CORE)	
202	1-828-895-11	WIRE (FLAT TYPE) (15 CORE)	
203	1-828-288-11	WIRE (FLAT TYPE) (5 CORE)	
204	1-828-333-11	WIRE (FLAT TYPE) (13 CORE) (RV777D)	
204	1-828-393-11	WIRE (FLAT TYPE) (25 CORE)	
△253	1-696-848-22	CORD, POWER (AUS)	
△253	1-751-520-21	CORD, POWER (EA)	
△253	1-777-071-83	CORD, POWER (E51,PH,SP,MY)	
△253	1-783-941-22	CORD, POWER (AR)	
△253	1-827-226-11	CORD, POWER (E3,E15,MX)	
302	1-776-182-11	WIRE (FLAT TYPE) (5 CORE)	
373	1-824-106-12	CABLE, FLEXIBLE FLAT (24 CORE)	
374	1-828-672-11	WIRE (FLAT TYPE) (29 CORE)	
△F911	1-533-472-12	FUSE, GLASS TUBE (DIA.5) (5A/250V) (EXCEPT AUS,AR,MX)	
△F912	1-533-472-12	FUSE, GLASS TUBE (DIA.5) (5A/250V) (EXCEPT AUS,AR,MX)	
△F913	1-533-472-12	FUSE, GLASS TUBE (DIA.5) (5A/250V) (RV888D:AUS/RV999D:AUS,AR)	
△F913	1-533-473-12	FUSE, GLASS TUBE (DIA.5) (6.3A/250V) (RV777D)	
△F913	1-576-655-12	FUSE, GLASS TUBE (DIA.5) (8A/250V) (RV888D:EXCEPT AUS/ RV999D:EXCEPT AUS,AR)	
△F914	1-533-473-12	FUSE, GLASS TUBE (DIA.5) (6.3A/250V)	
△F915	1-533-473-12	FUSE, GLASS TUBE (DIA.5) (6.3A/250V)	
△F916	1-533-473-12	FUSE, GLASS TUBE (DIA.5) (6.3A/250V) (RV888D/RV999D)	
△F917	1-533-473-12	FUSE, GLASS TUBE (DIA.5) (6.3A/250V) (RV888D/RV999D)	
△F918	1-533-471-12	FUSE, GLASS TUBE (DIA.5) (4A/250V) (RV777D)	
△F918	1-533-472-12	FUSE, GLASS TUBE (DIA.5) (5A/250V) (RV888D/RV999D)	
△F919	1-533-471-12	FUSE, GLASS TUBE (DIA.5) (4A/250V)	
FAN901	1-763-072-11	FAN, DC	
FC901	1-500-386-11	FILTER, CLAMP (FERRITE CORE) (AUS,EA)	
IC921	8-759-518-68	IC PQ12RF21	
IC922	8-759-701-59	IC NJM78M09FA	
IC923	8-759-701-59	IC NJM78M09FA	
IC932	6-703-546-01	IC TA7804LS	
IC934	8-759-231-53	IC TA7805S	
M741	A-4723-963-A	MOTOR ASSY, TABLE (TABLE)	
M751	A-4736-655-A	MOTOR ASSY, LOADING (LOADING)	
RE701	1-477-680-12	ENCODER, ROTARY (DISC TRAY ADDRESS DETECT)	
△T911	1-443-174-11	TRANSFORMER, POWER (RV777D:EXCEPT EA)	
△T911	1-443-175-11	TRANSFORMER, POWER (RV777D:EA)	
△T911	1-443-352-11	TRANSFORMER, POWER (RV888D:EXCEPT EA/RV999D:EXCEPT EA,MX)	
△T911	1-443-362-11	TRANSFORMER, POWER (RV888D:EA/RV999D:EA,MX)	
TM901	1-693-603-31	TUNER PACK (FM/AM) (ANTENNA)	

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MEMO

