HCD-DX375

SERVICE MANUAL

US Model

Self Diagnosis Supported model

Ver. 1.1 2006.04

HCD-DX375 is the amplifier, DVD/CD and tuner section in DAV-DX375.

This system incorporates with Dolby*1 Digital and Dolby Pro Logic (II) adaptive matrix surround decoder and the DTS*2 Digital Surround System.

*1 Manufactured under license from Dolby Laboratories. "Dolby," "Pro Logic," and the double-D symbol are trademarks of Dolby Laboratories.

*2 Manufactured under license from Digital Theater Systems, Inc. "DTS" and "DTS Digital Surround" are trademarks of Digital Theater Systems, Inc.

Model Name Using Similar Mechanism	HCD-DX255
Mechanism Type	CDM81C-DVBU101
Optical Pick-up Name	KHM-310CAB

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION
(FTC Output Power): FL/FR/SL/SR/C: 84 W/ch 3 ohm at 170 - 20,000 Hz, 0.7 % THD
SW: 160 W 1.5 ohm at 40 - 170 Hz, 0.7 % THD

Amplifier section

Surround mode (reference) RMS output power, 10 % THD
Front: 143 W + 143 W (with SS-TS52)
Center*: 143 W (with SS-CT51)
Surround*: 143 W + 143 W (with SS-TS51)
Subwoofer*: 285 W (with SS-WS52B)

* *Depending on the sound field settings and the source, there may be no sound output.*

Inputs
TV, VCR (AUDIO IN) Sensitivity: 450/250 mV
AUDIO IN Sensitivity: 250/125 mV
Outputs (Analog)
Phones Accepts low-and high-impedance headphones.

Super Audio CD/DVD system

Laser Semiconductor laser (Super Audio CD/DVD: λ = 650 nm) (CD: λ = 790 nm)
Emission duration: continuous
Signal format system NTSC
Harmonic distortion Less than 0.03 %

Tuner section

System PLL quartz-locked digital synthesizer system

FM tuner section
Tuning range 87.5 – 108.0 MHz (100 kHz step)
Antenna (aerial) FM wire antenna (aerial)
Antenna (aerial) terminals 75 ohms, unbalanced
Intermediate frequency 10.7 MHz

AM tuner section
Tuning range 530 – 1,710 kHz (with the interval set at 10 kHz)
531 – 1,710 kHz (with the interval set at 9 kHz)
Antenna (aerial) AM loop antenna (aerial)
Intermediate frequency 450 kHz

Video section

Outputs VIDEO: 1 Vp-p 75 ohms
S VIDEO:
Y: 1 Vp-p 75 ohms
C: 0.286 Vp-p 75 ohms
COMPONENT:
Y: 1 Vp-p 75 ohms
P_B/C_B, P_R/C_R: 0.7 Vp-p 75 ohms
HDMI OUT:
Type A (19 pin)

— Continued on next page —

SUPER AUDIO CD/DVD RECEIVER

9-887-160-02
2006D16-1

Sony Corporation
Home Audio Division
Published by Sony Techno Create Corporation

SONY

General

Power requirements	120 V AC, 60 Hz
Power consumption	On: 160 W Standby: 0.3 W (at the Power Saving mode)
Dimensions (approx.)	430 × 86 × 418 mm (17 × 3 1/4 × 16 3/4 inches) (w/h/d) incl. projecting parts
Mass (approx.)	5.2 kg (11 lb 8 oz)

Design and specifications are subject to change without notice.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage.
Check leakage as described below.

LEAKAGE TEST

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

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

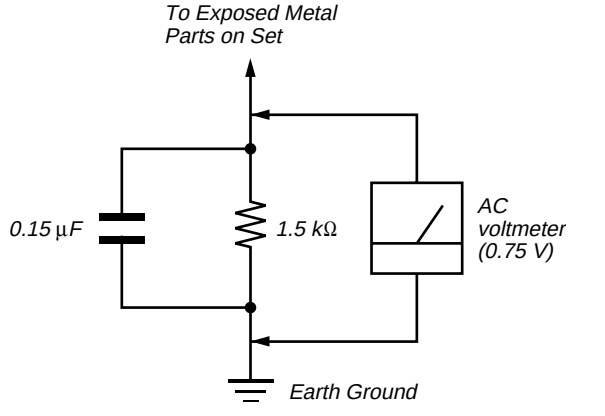


Fig. A. Using an AC voltmeter to check AC leakage.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ 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.

CAUTION

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

Notes on chip component replacement

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

Flexible Circuit Board Repairing

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

UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size)

: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350 °C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscou-s (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

TABLE OF CONTENTS

SECTION 1
SERVICING NOTE

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

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

NOTES ON LASER DIODE EMISSION CHECK

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

LASER DIODE AND FOCUS SEARCH

1. Open the cover and turn POWER on with no disc inserted.
2. Confirm that the following operation is performed while observing the objecting lens.
   1) Confirm that laser beam is spread.
   2) Up and down motion of the objective lens. (3 times)

DISC TRAY LOCK

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

Setting Procedure :

1. Press the I/⏻ button to turn the set on.
2. Press the FUNCTION button to set DVD function.
3. Insert a disc.
4. Press the ■ button and the ⏏ button simultaneously for five seconds.
5. The message “LOCKED” is displayed and the tray is locked.

Releasing Procedure :

1. Press the ■ button and the ⏏ button simultaneously for five seconds again.
2. The message “UNLOCKED” is displayed and the tray is unlocked.

Note 1: When “LOCKED” is displayed, the tray lock is not released by turning power on/off with the I/⏻ button.

Note 2: Incorrect operations may be performed if the test mode ia not entered properly.
In this case, press the I/⏻ button to turn the power off, and retry to enter the test mode.

Note 3: If the disc tray does not open and the message “LOCKED” appears, press the ■ button and the ⏏ button simultaneously for seconds or longer.
Then remove your fingers from the above stick and the button.
The message “UNLOCKED” appears for 2 seconds and the disc tray opens.

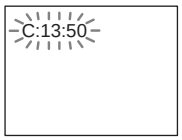
Note on DMB12 board replacement

New part of EEP ROM (IC103, IC706) on the DMB12 board cannot be used. Therefore, if the mounted DMB12 board (A-1148-813-A) is replaced, exchange new EEP ROM (IC103, IC706) with that used before the replacement.

Self-diagnosis Function

(When letters/numbers appear in the display)

When the self-diagnosis function is activated to prevent the system from malfunctioning, a 5-character service number (e.g., C 13 50) with a combination of a letter and 4 digits appears on the screen and the front panel display. In this case, check the following table.

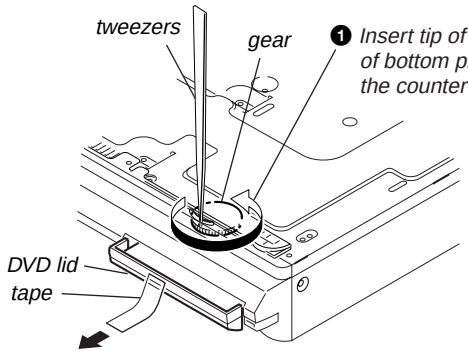


First 3 characters of the service number	Cause and/or corrective action
C 13	The disc is dirty. ➡Clean the disc with a soft cloth
C 31	The disc is not inserted correctly. ➡Restart the system, then re-insert the disc correctly.
E XX (xx is a number)	To prevent a malfunction, the system has performed the self-diagnosis function. ➡Contact your nearest Sony dealer or local authorized Sony service facility and give the 5-character service number. Example: E 61 10

When displaying the version number on the screen

When you turn on the system, the version number [VER.X.XX] (X is a number) may appear on the screen. Although this is not a malfunction and for Sony service use only, normal system operation will not be possible. Turn off the system, and then turn on the system again to operate.

HOW TO OPEN THE DISC TABLE WHEN POWER SWITCH TURNS OFF



❶ *Insert tip of tweezers through the hole of bottom plate, and roate the gear in the counter-clockwise direction.*

❷ *Attach an adhesive tape on the DVD LID and draw it out.*

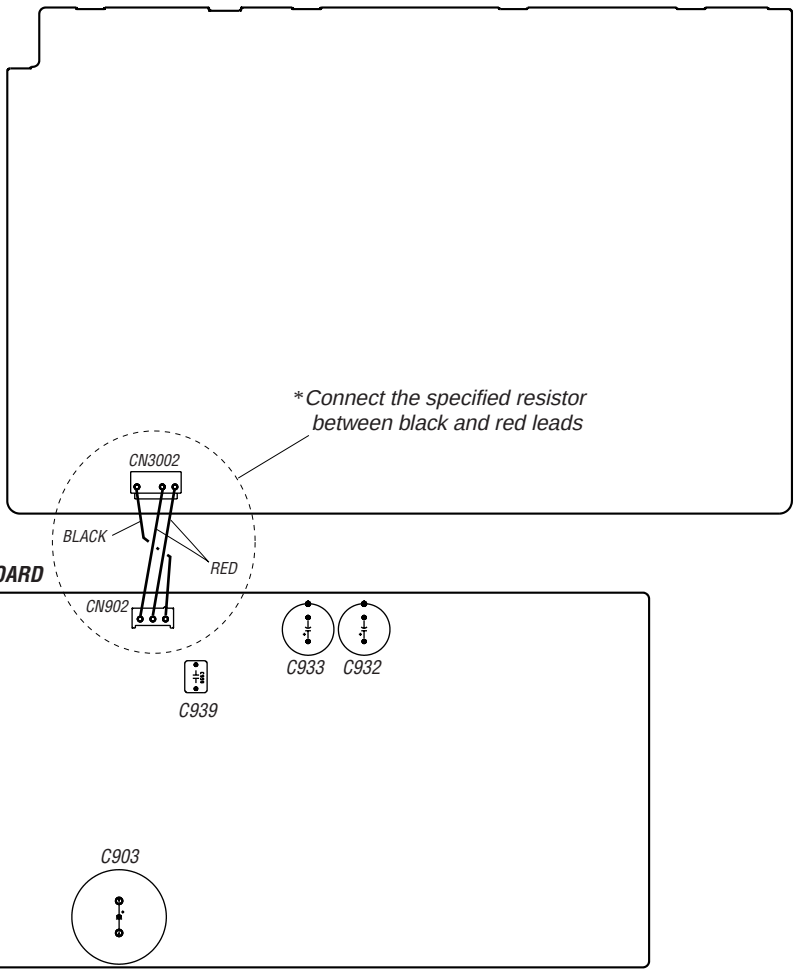
Discharge the charged electricity in capacitors to prevent electric shock as follows

When disassembling the machine, be sure to discharge the charged electricity in the following capacitors.
Use a resistor of 800 ohms, 2 Watts for discharging the following capacitors.

POWER board
C903 : 600V
C932, C933, C939, CN902 : 30V

MAIN board
CN3002 : 30 V

MAIN BOARD

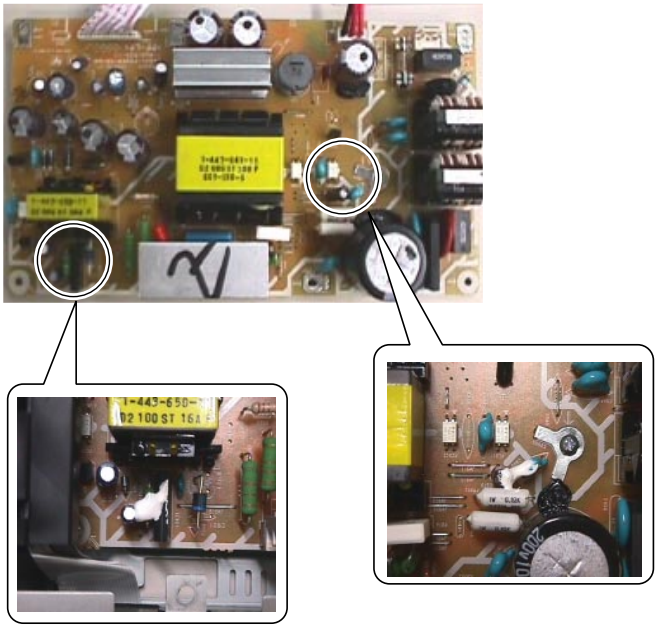


POWER BOARD

Fix the capacitors with adhesive agent as follows

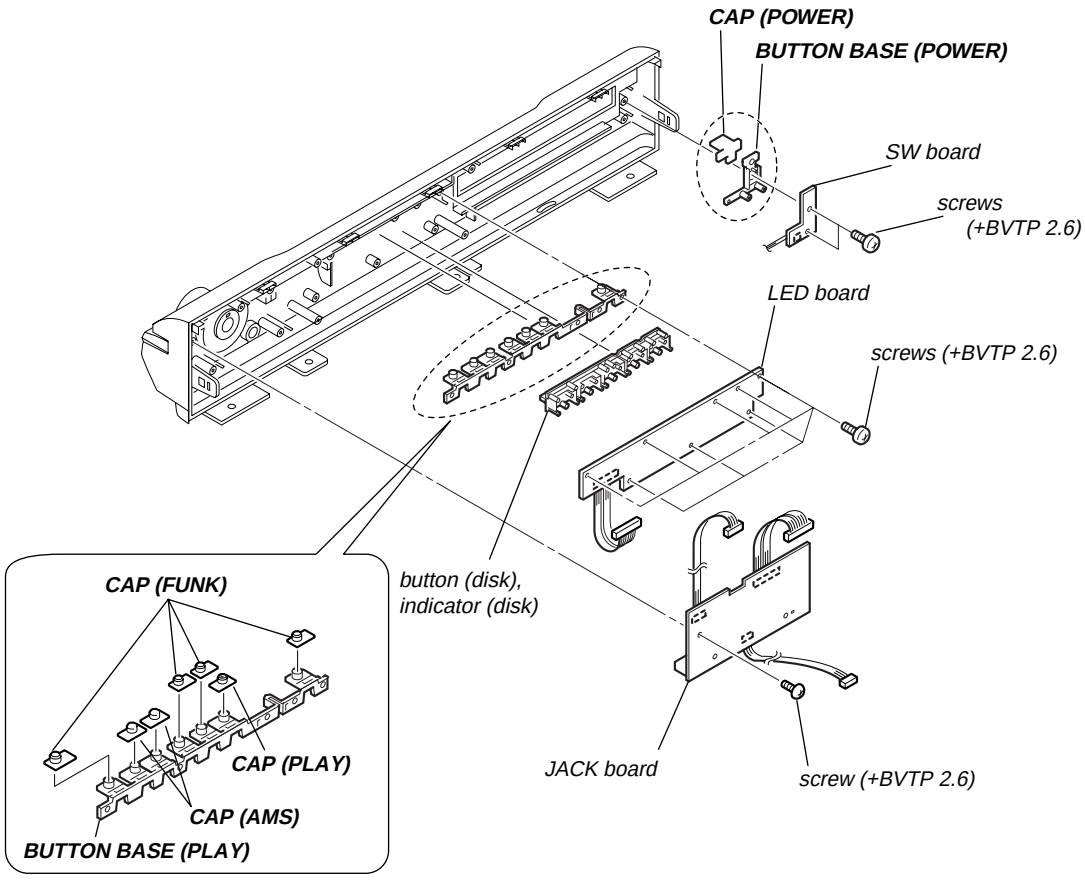
Fixing the capacitors with adhesive agent is required by the safety regulation.
Be sure to fix the capacitors with adhesive agent when part or circuit board is replaced.

POWER BOARD

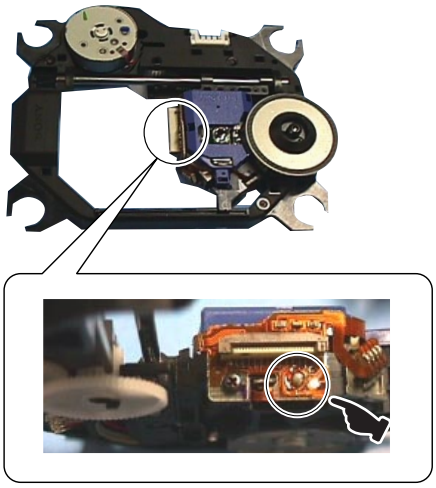


Precaution when replacing the CAP

Please apply the adhesive agent to the BUTTON BASE (PLAY) when replacing the CAP (PLAY) or CAP (FUNC) or CAP (AMS).
Please apply the adhesive agent to the BUTTON BASE (POWER) when replacing the CAP (POWER).

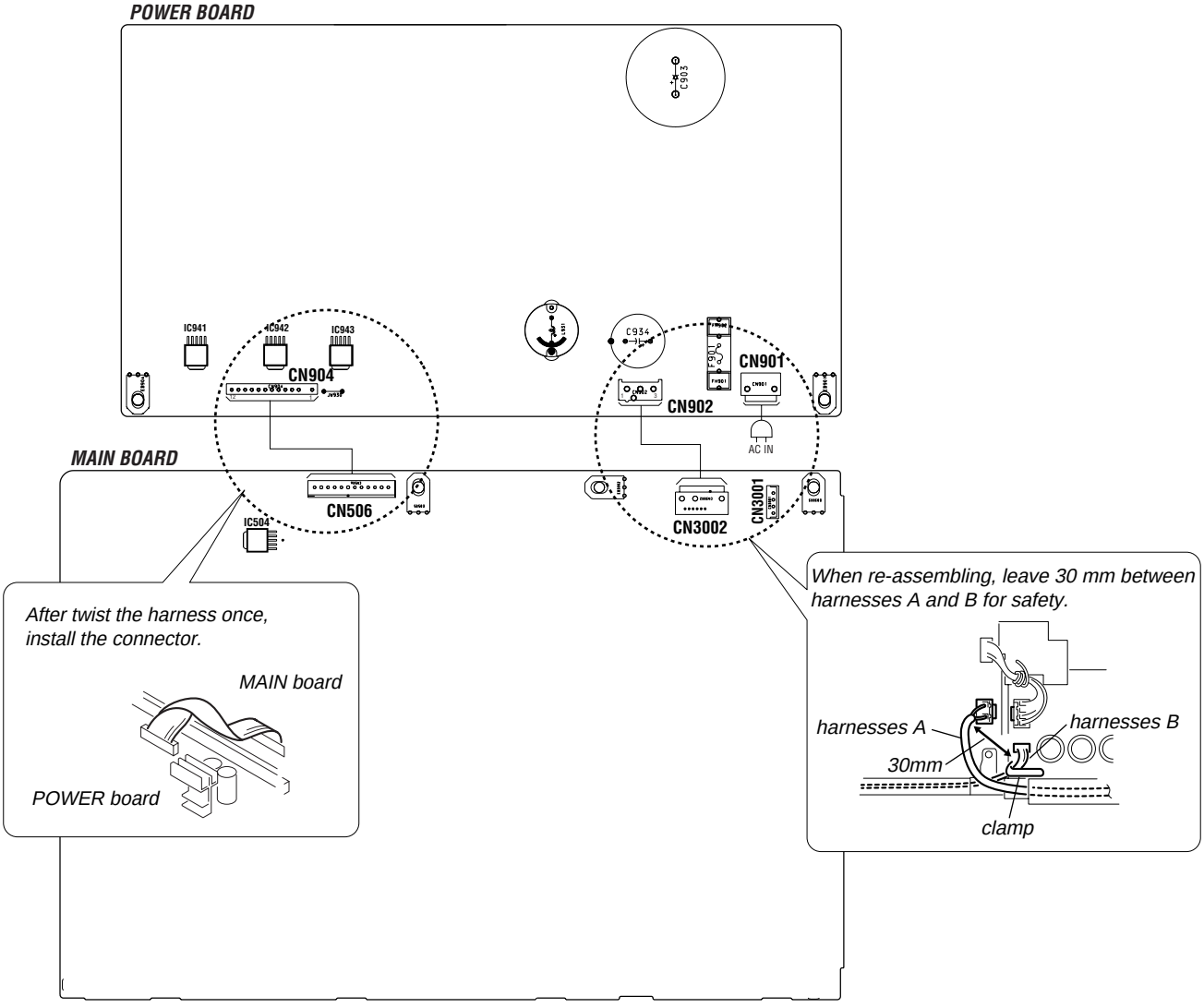


PRECAUTION WHEN INSTALLING A NEW OP UNIT /
PRECAUTION BEFORE UNSOLDERING THE STATIC ELECTRICITY
PREVENTION SOLDER BRIDGE

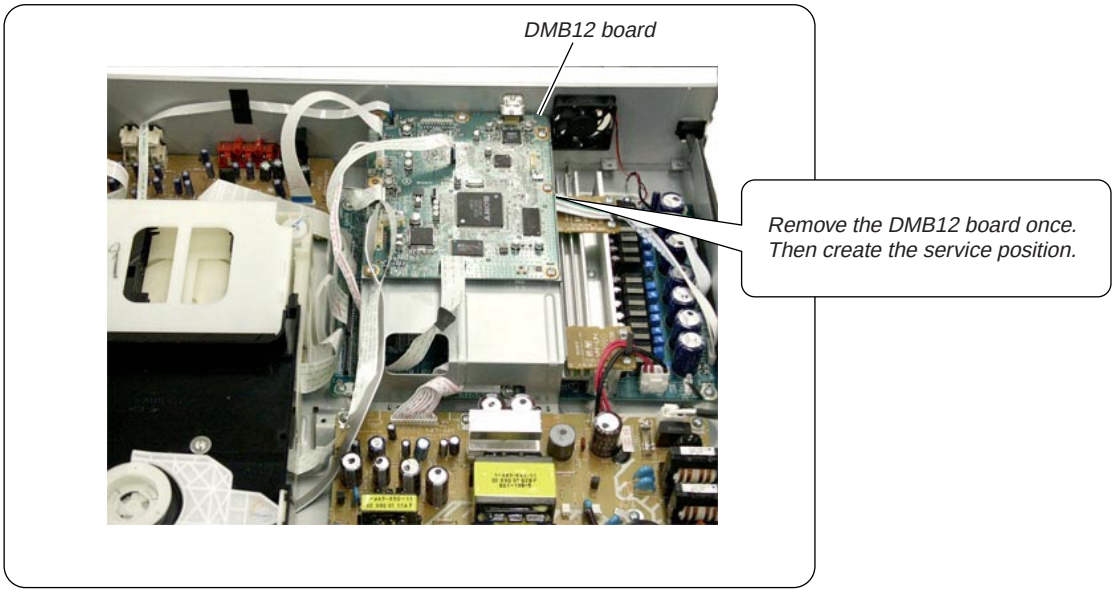


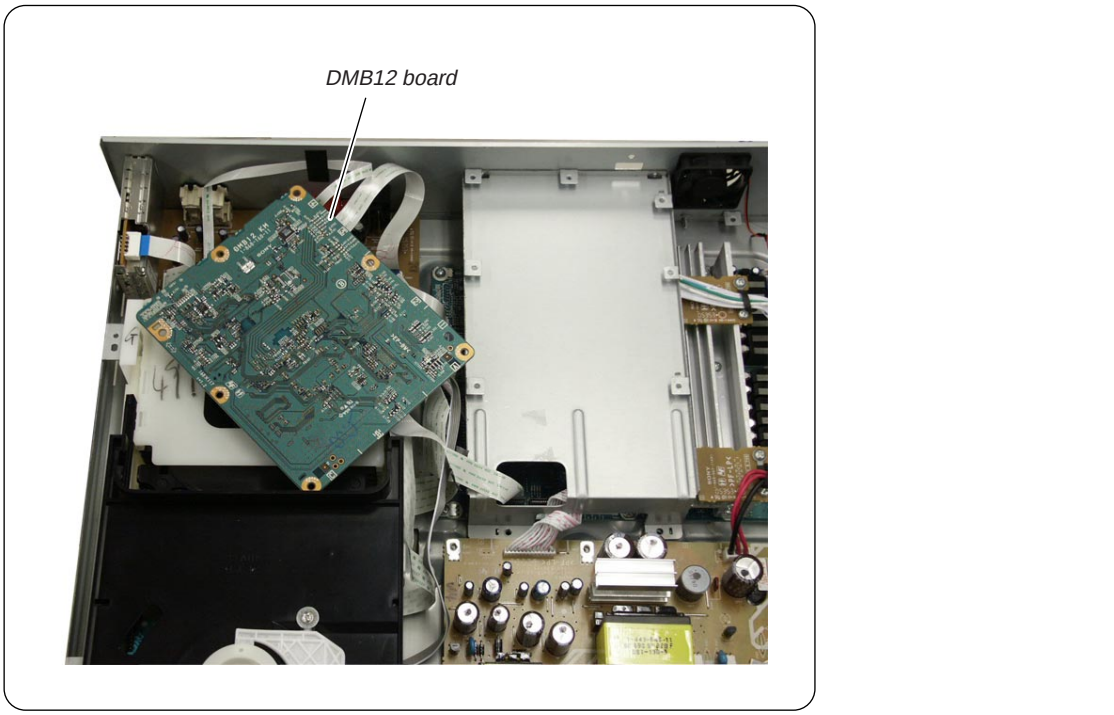
When installing a new OP unit, be sure to connect the flexible printed circuit board first of all before removing the static electricity prevention solder bridge by unsoldering. Remove the static electricity prevention solder bridge by unsoldering after the flexible printed circuit board has already been connected.
(Do not remove nor unsolder the solder bridge as long as the OP unit is kept standalone.)

Precaution on the connector processing of the POWER board.

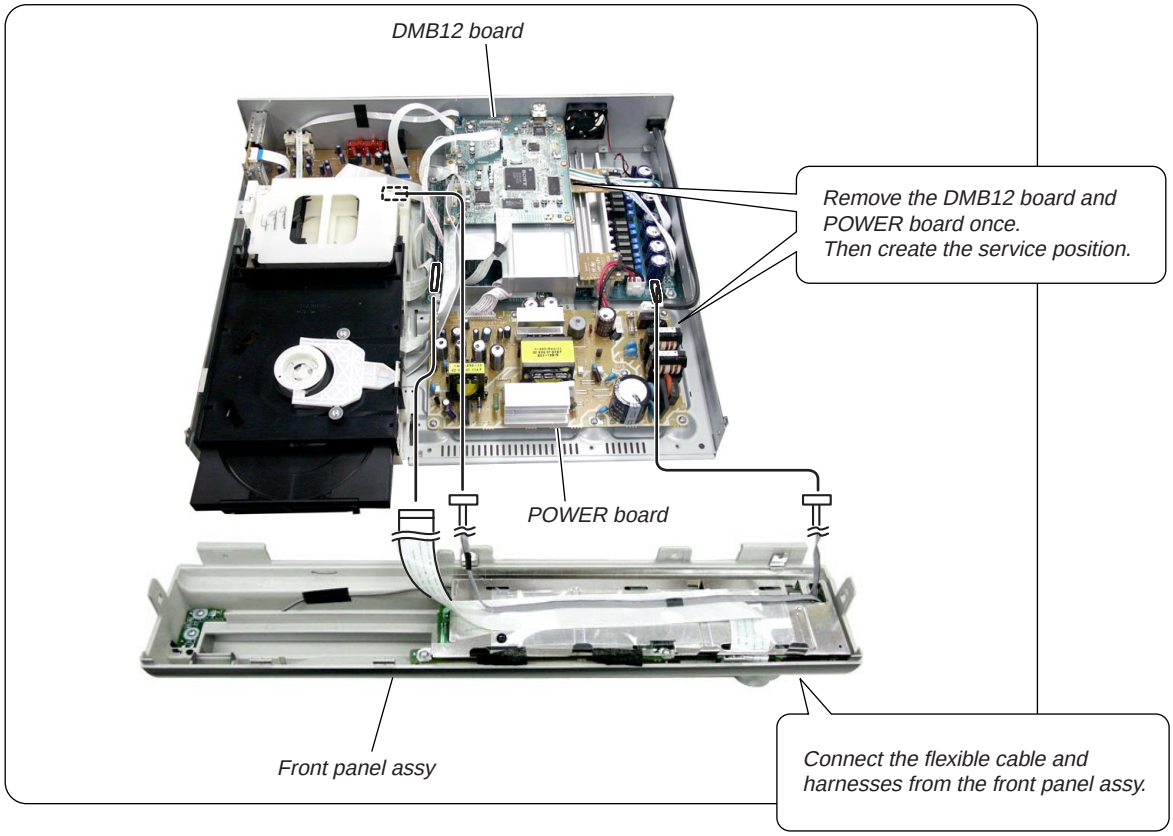


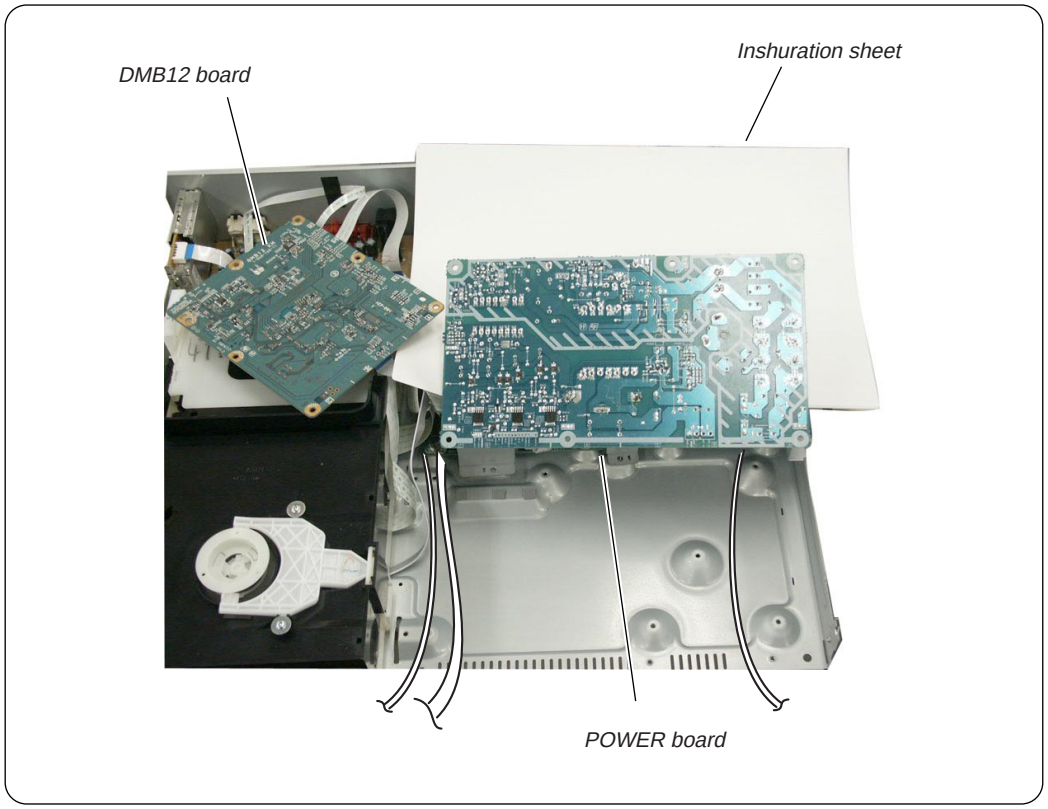
- **DMB12 board service position**



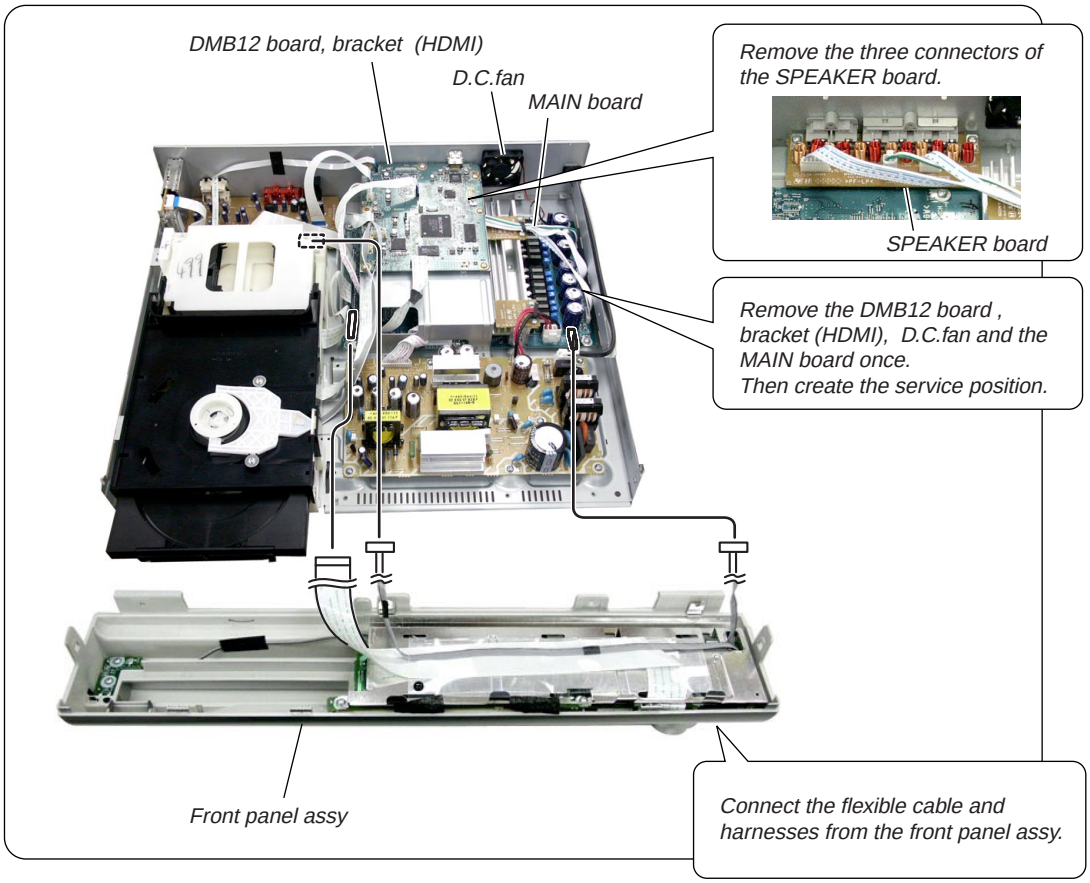


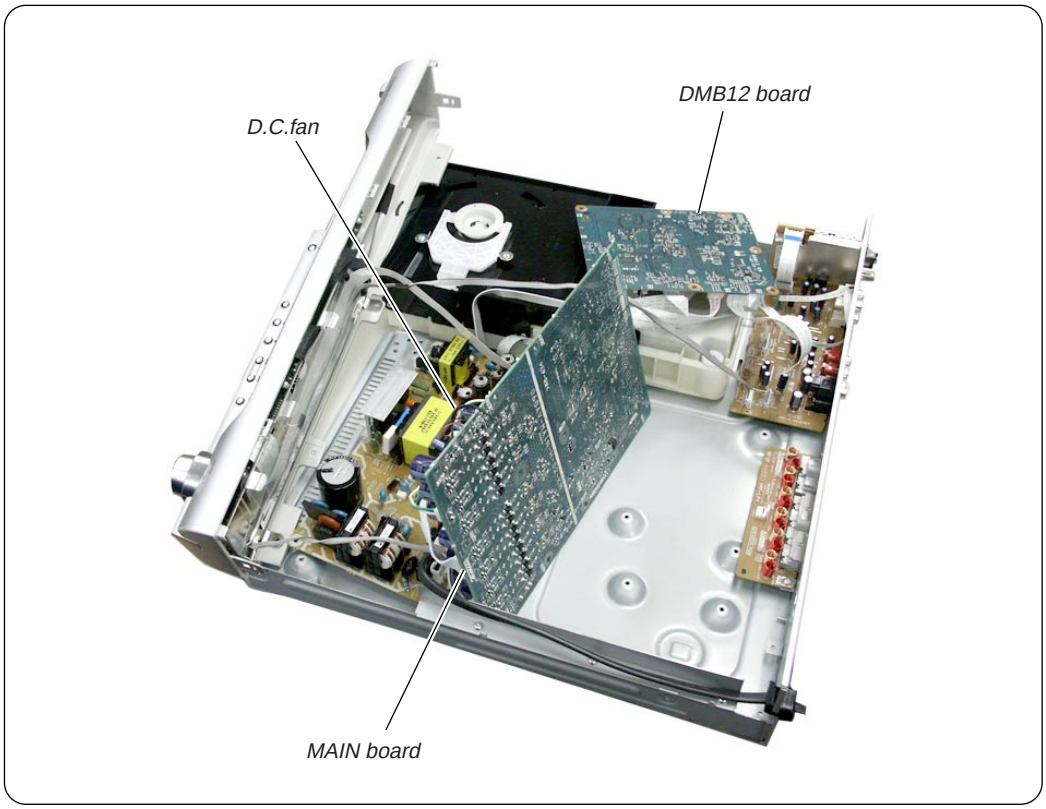
- **POWER board service position**





- **MAIN board service position**

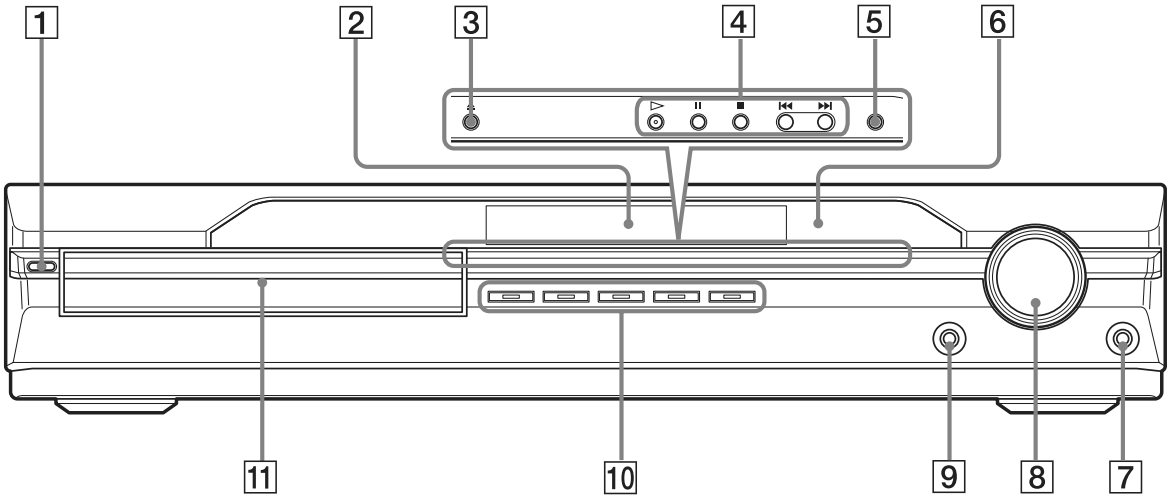




SECTION 2
GENERAL

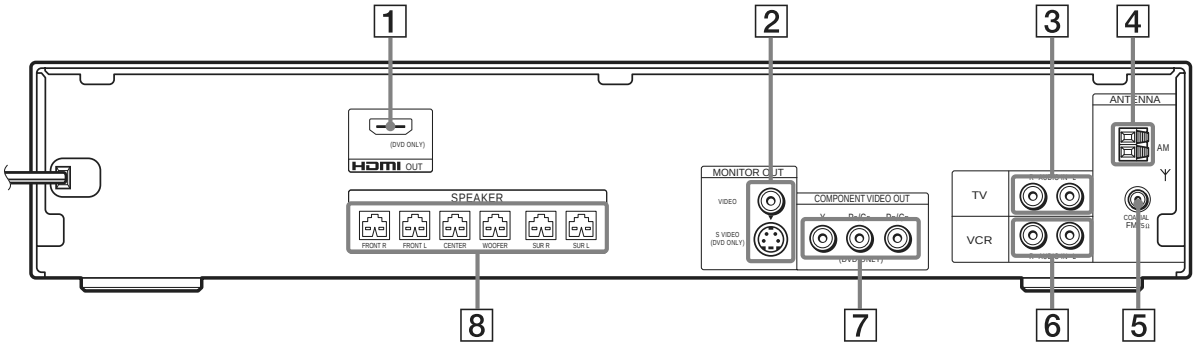
This section is extracted from instruction manual.

Front panel



1 **I/⏻ (on/standby) (30)**
2 **Front panel display (93)**
3 **⏏ (open/close) (30)**
4 **Disc operation (30)**
5 **FUNCTION (30)**
6 **(remote sensor) (9)**
7 **PHONES jack (30)**
8 **VOLUME control (30)**
9 **AUDIO IN/A.CAL MIC jack (19, 32)**
10 **DISC 1-5 (30)**
11 **Disc tray (30)**

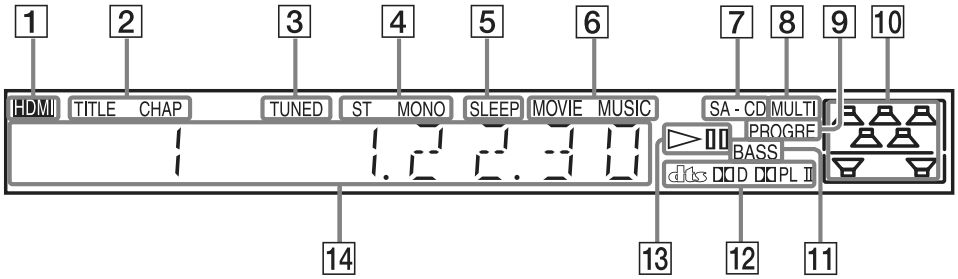
Rear panel



1 **HDMI OUT jack (24)**
2 **MONITOR OUT (S VIDEO/VIDEO) jacks (24)**
3 **TV (AUDIO IN R/L) jacks (28)**
4 **AM terminal (13)**
5 **COAXIAL FM 75Ω jack (13)**
6 **VCR (AUDIO IN R/L) jacks (28)**
7 **COMPONENT VIDEO OUT jacks (24)**
8 **SPEAKER jacks (13)**

Front panel display

About the indications in the front panel display



1. **Lights up when the HDMI OUT jack is correctly connected to HDCP (high-bandwidth digital content protection) compliant device with HDMI or DVI (digital visual interface) input. (24)**
2. **Lights up when the time information of a title or chapter appears in the front panel display. (DVD only) (46)**
3. **Lights up when a station is received. (Radio only) (58)**
4. **Monaural/Stereo effect (Radio only) (58)**
5. **Lights up when the sleep timer is set. (63)**
6. **Lights up when the music or movie mode is selected. (Except for JPEG) (33)**
7. **Lights up when Super Audio CD is loaded.**
8. **Lights up during MULTI channel playback. (Super Audio CD only) (49)**
9. **Lights up when the system outputs progressive signals (DVD function only). (26)**
10. **Indicates the selected [SPEAKER FORMATION]. (67)**
11. **Lights up when the DYNAMIC BASS is selected. (62)**
12. **Current surround format (Except for JPEG and Super Audio CD)**
13. **Playing status (DVD function only)**
14. **Displays system’s status such as chapter, title, or track number, time information, radio frequency, playing status, sound field, etc.**

Remote control

ALPHABETICAL ORDER

A – O

AMP MENU[3] 7 (22, 32, 61, 63, 98)
ANGLE 5 (48)
AUDIO[2] 33 (44)
CLEAR 34 (37, 58, 61, 72)
D.TUNING 24 (58)
DISC SKIP 12 (30)
DISPLAY 2 (46, 59)
DYNAMIC BASS 3 (62)
ENTER[1] 4 (19, 22, 32, 37, 57, 64)
FUNCTION +/–[2] 10 (26, 30, 32, 39, 57, 67)
MENU 6 (43, 57)
MOVIE/MUSIC 23 (33)
MUTING 28 (30)
Number buttons[2] 17 (37, 58, 60, 64)

P – Z

PICTURE NAVI 16 (38, 61)
PRESET +/– 8 13 (58)
PROGRESSIVE 18 (26)
SLEEP 36 (63)
SA-CD/CD 22 (49)
SOUND FIELD 35 (34)
SUBTITLE 24 (48)
THEATRE SYNC 21 (61)
TOP MENU 32 (43)
TUNING +/– 26 30 (57)
TV 20 (60)
TV CH +/–[2] 10 (60)
TV VOL +/– 11 (60)
TV/VIDEO 19 (60)
VOLUME +/– 11 (30, 58, 78)

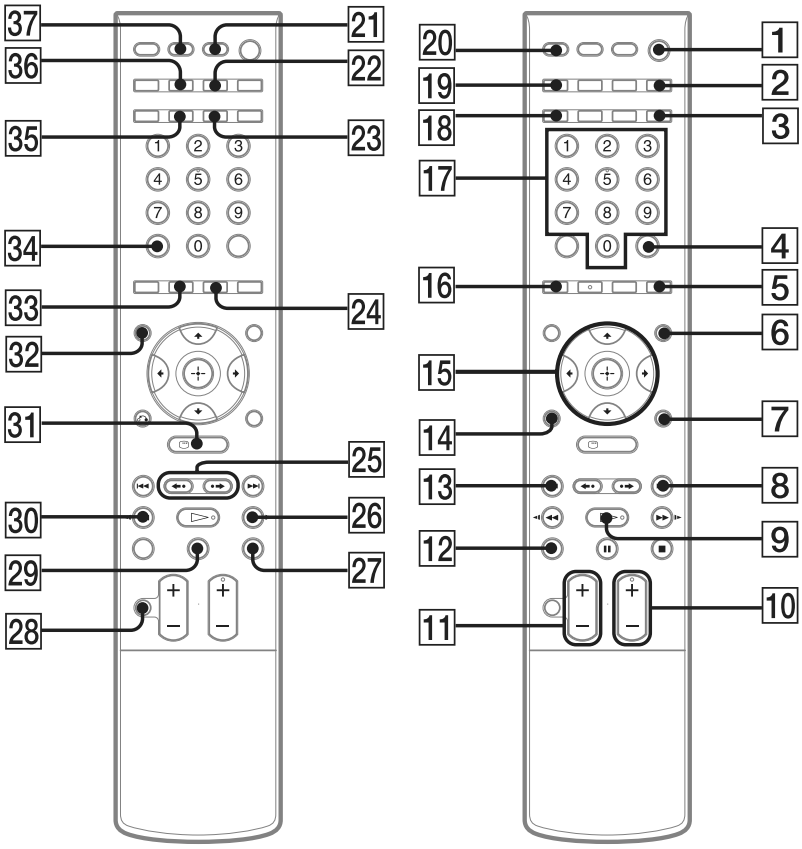
BUTTON DESCRIPTIONS

I/⏻ (on/standby) 1 (19, 22, 30, 39, 58)
TV I/⏻ (on/standby) 37 (60)
←/↑/↓/→/⊕[3] 15 (19, 22, 32, 37, 57, 64)
←●/●→ REPLAY/ADVANCE 25 (30)
⏮/⏭ 13 8 (30)
◀◀/▶▶ 30 26 (36)
◀❚/❚▶ 30 26 (36)
▷ (play)[2] 9 (30, 39, 65)
■ (stop) 27 (31, 39, 64)
❚❚ (pause) 29 (31)
▭ DISPLAY[3] 31 (20, 37, 64, 94)
↩ RETURN[3] 14 (38)
-/-- 34 (60)

[1]The ENTER button is the same function as the ⊕ button.

[2]The ▷, number 5, AUDIO, and FUNCTION + (TV CH +) buttons have tactile dots. Use the tactile dots as references when operating the system.

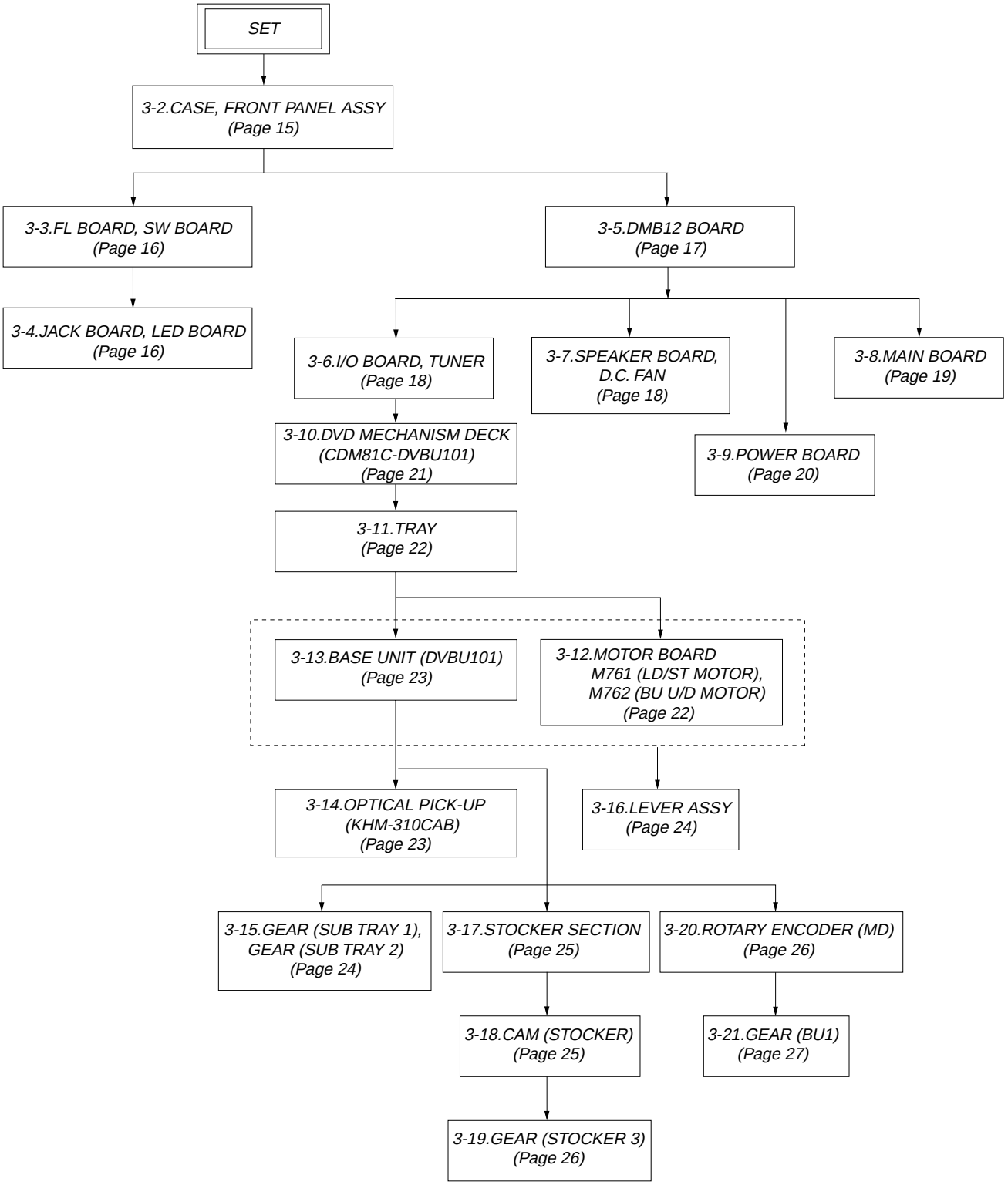
[3]After pressing the TV button 20, you can control the menu on a Sony TV. On the menu screen, the ▭ DISPLAY button 31 doubles as the MENU button, and the AMP MENU button 7 double as the TOOLS button. Note that depending on the component, you may not be able to use some or all of the buttons.



SECTION 3
DISASSEMBLY

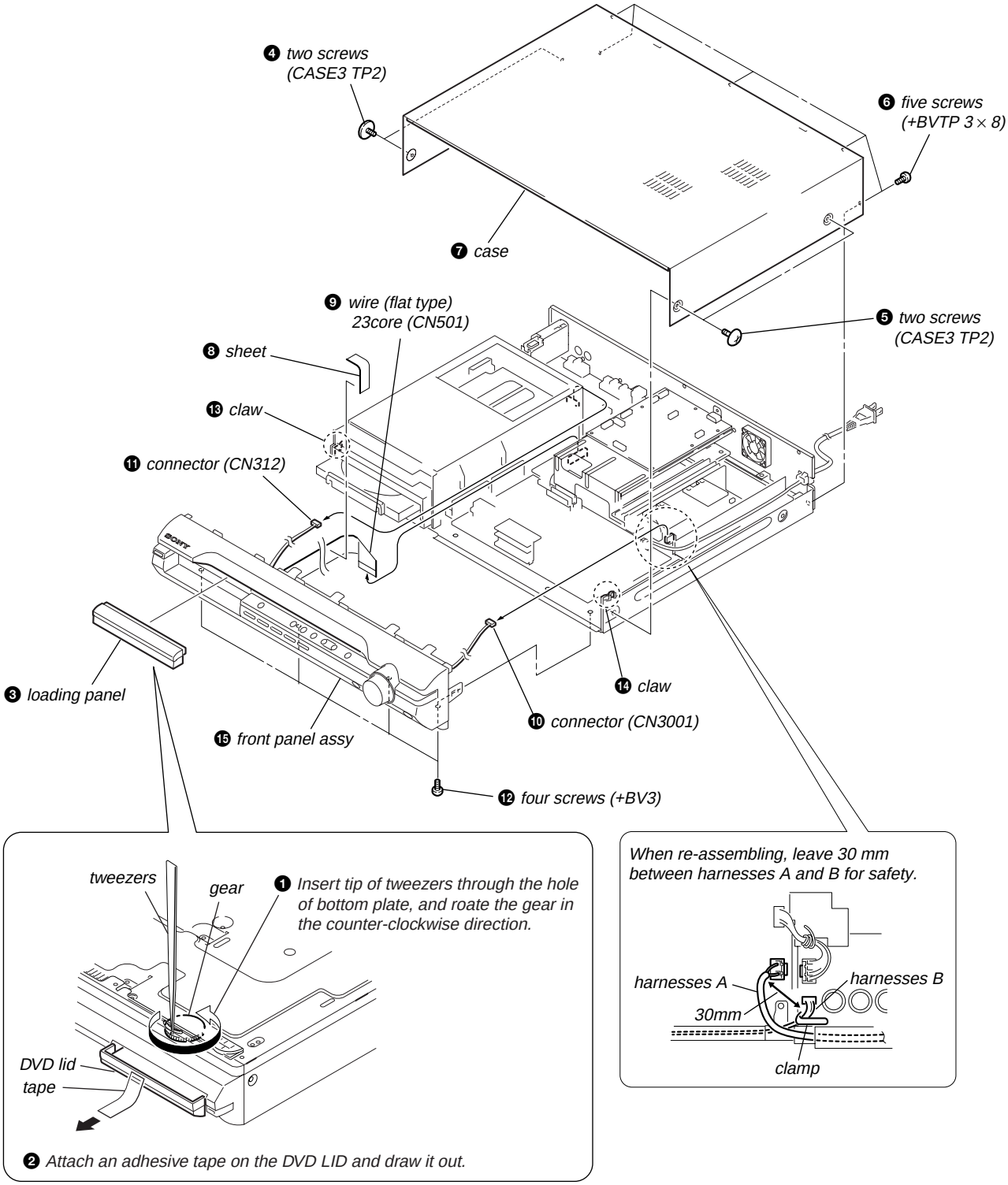
3-1. DISASSEMBLY FLOW

- This set can be disassembled in the order shown below.
- The dotted square with arrow (⊢) prompts you to move to the next job when all of the works within the dotted square (⬚) are completed.

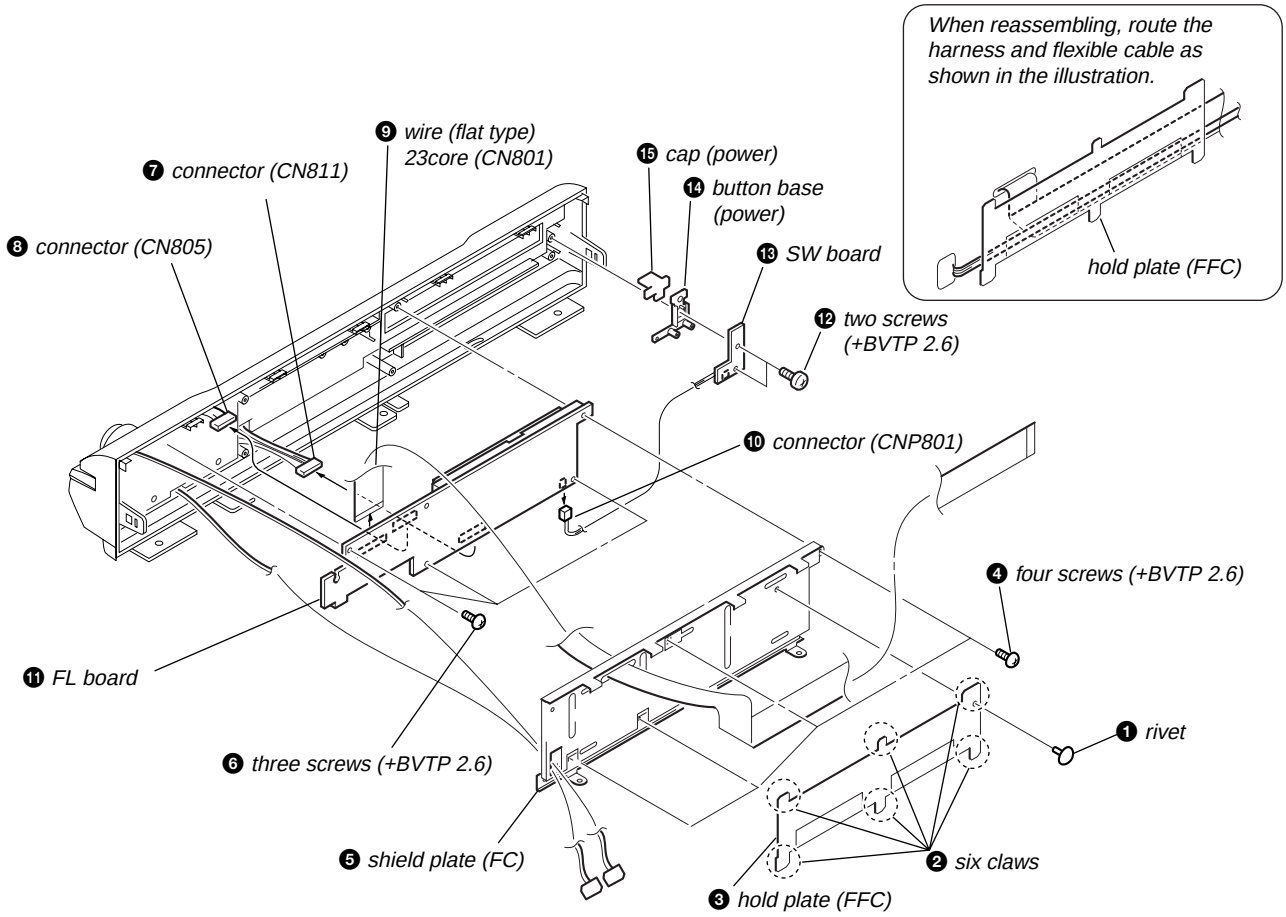


Note: Follow the disassembly procedure in the numerical order given.

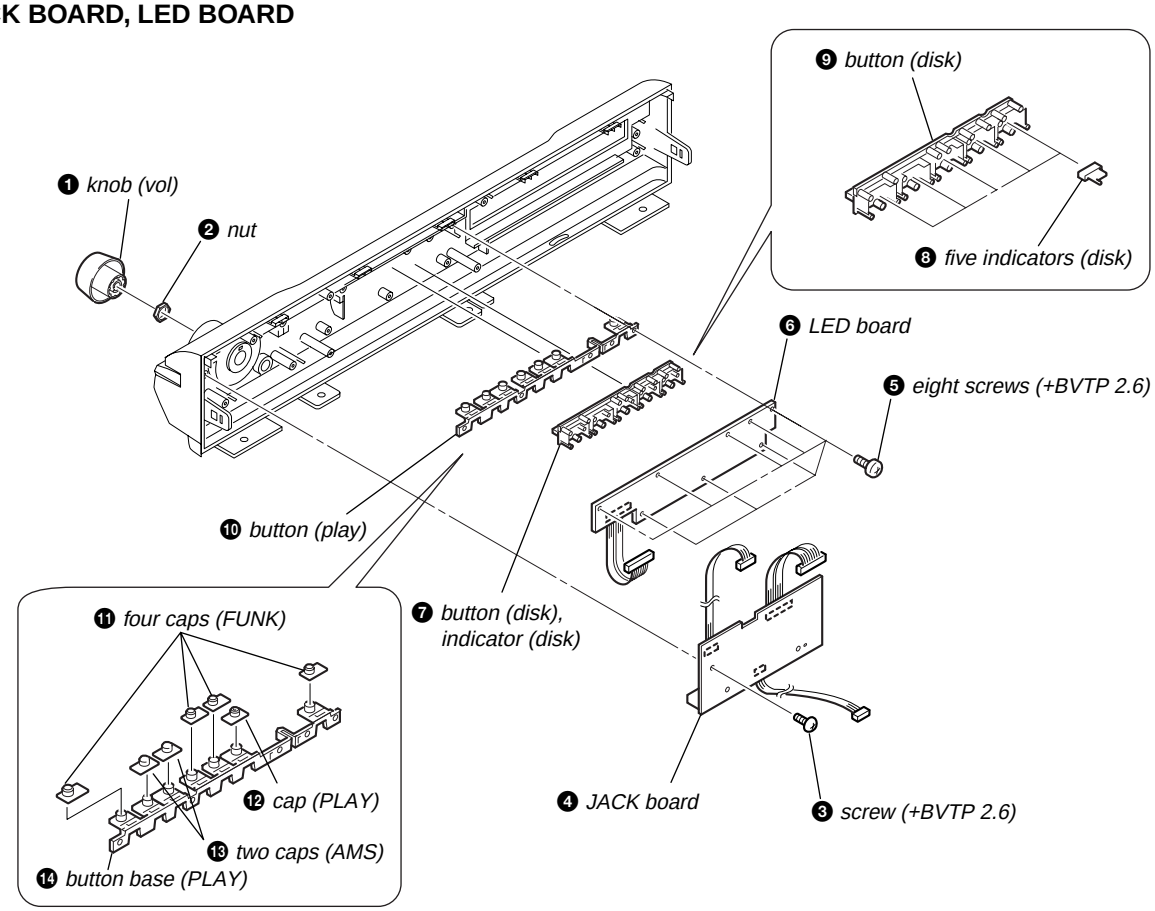
3-2. CASE, FRONT PANEL ASSY



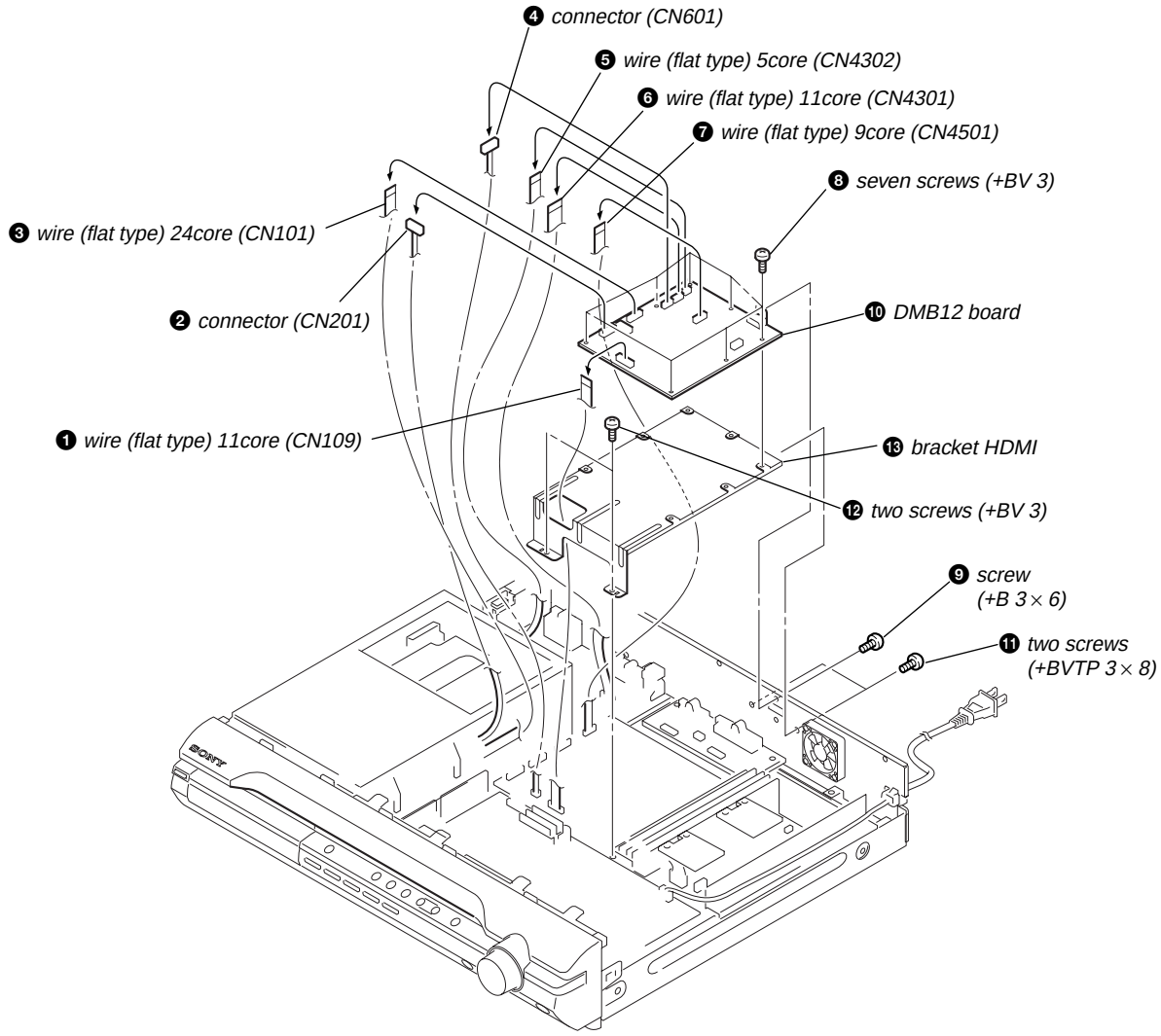
3-3. FL BOARD, SW BOARD



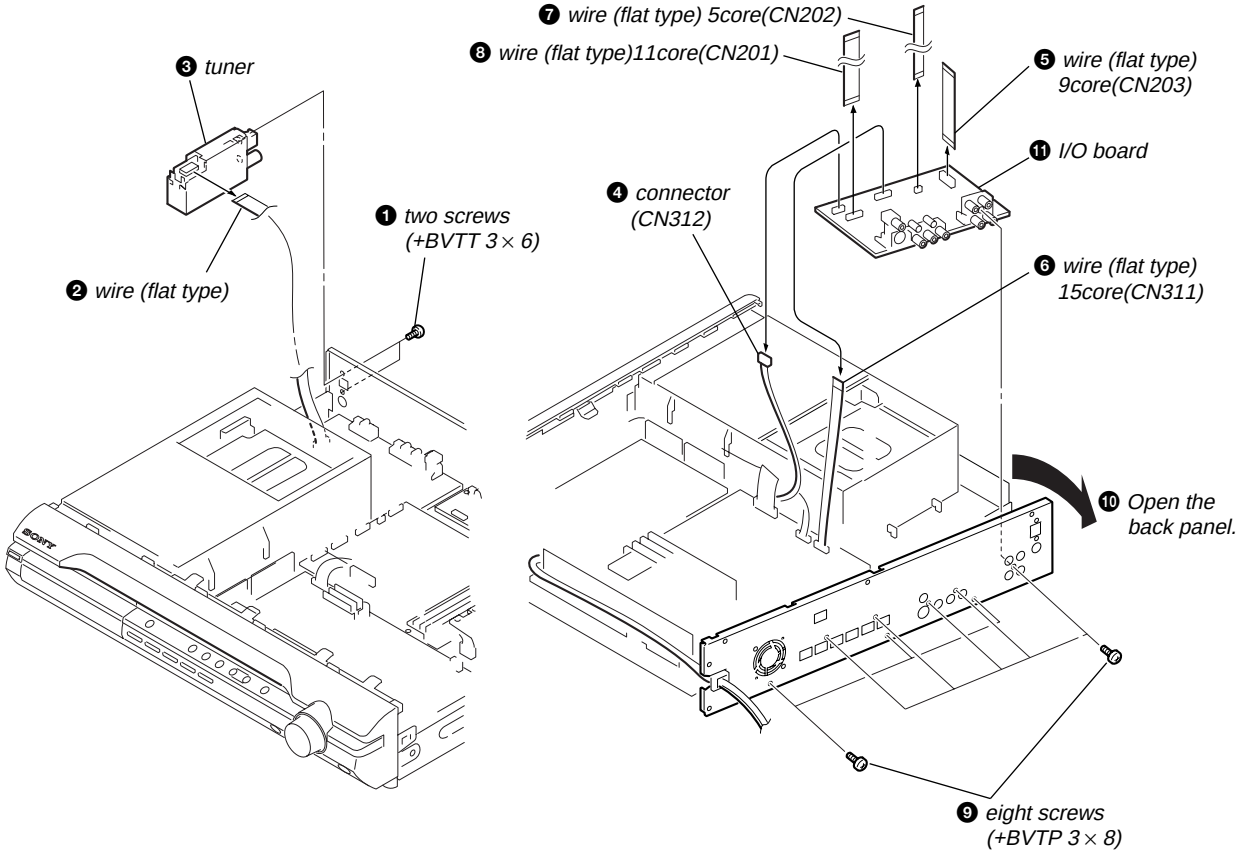
3-4. JACK BOARD, LED BOARD



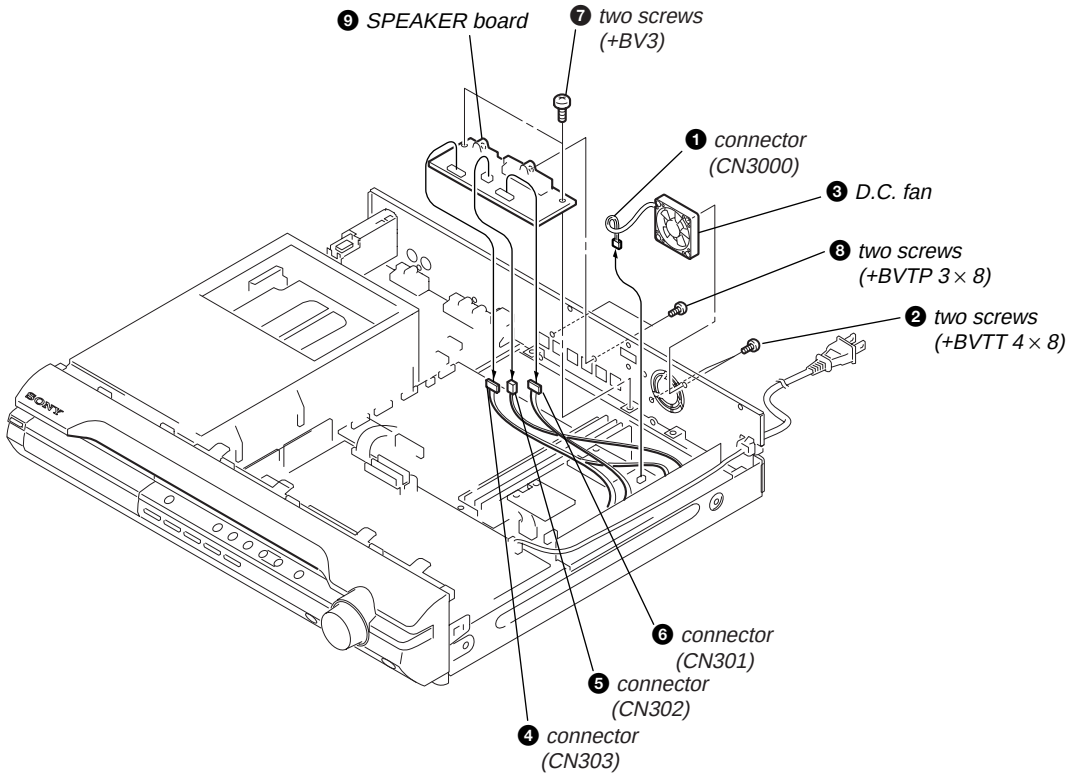
3-5. DMB12 BOARD



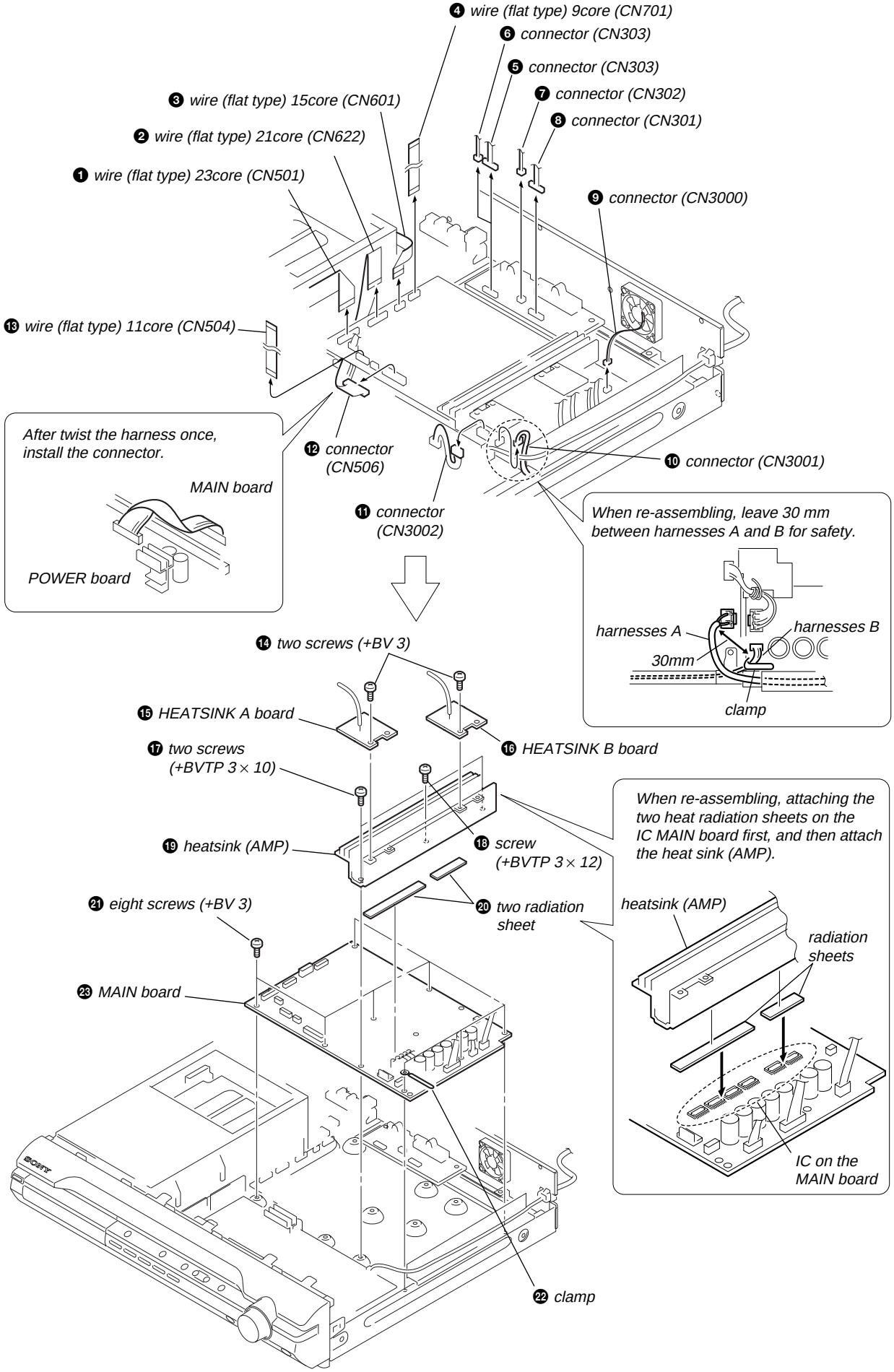
3-6. I/O BOARD, TUNER



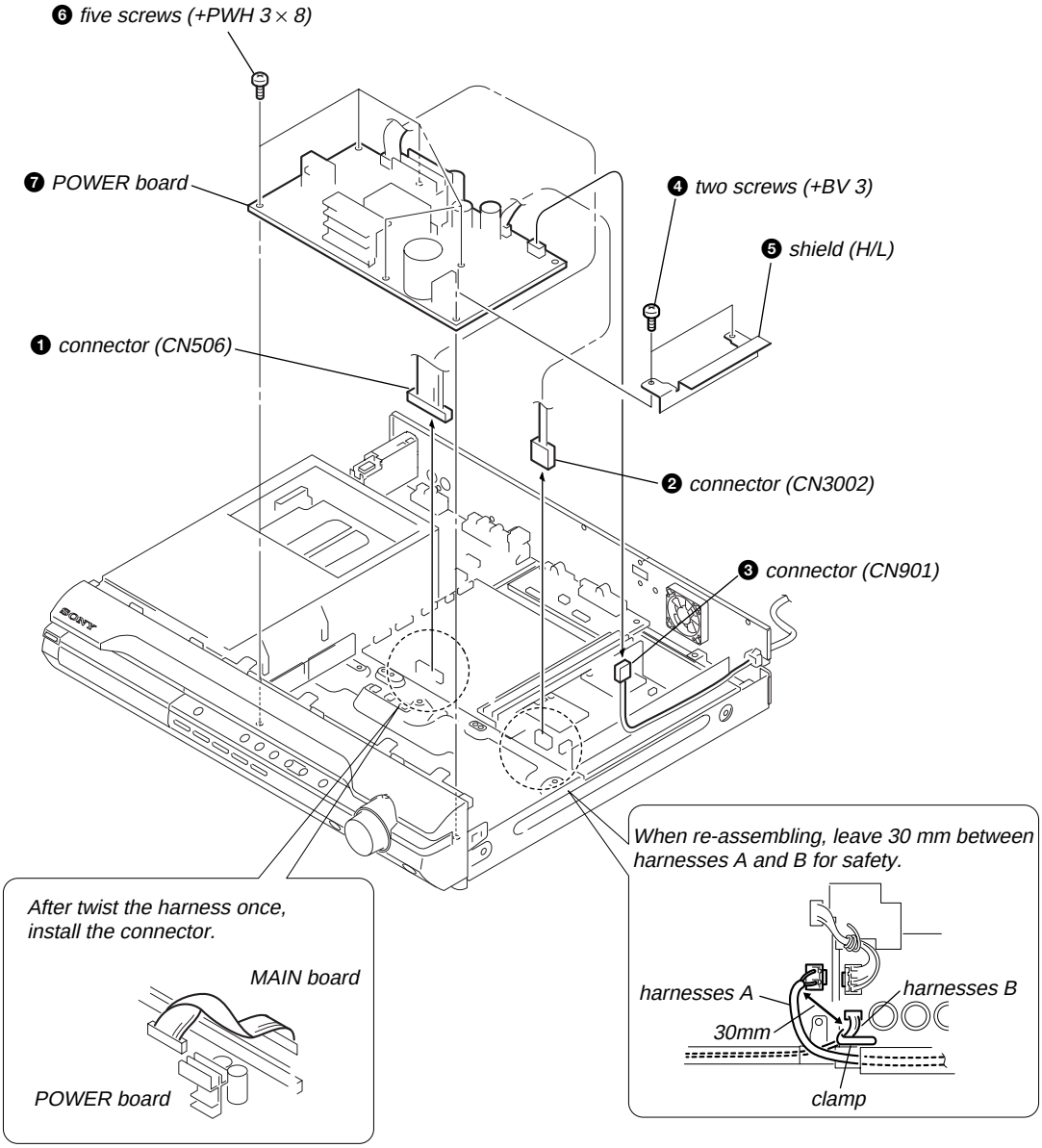
3-7. SPEAKER BOARD, D.C. FAN



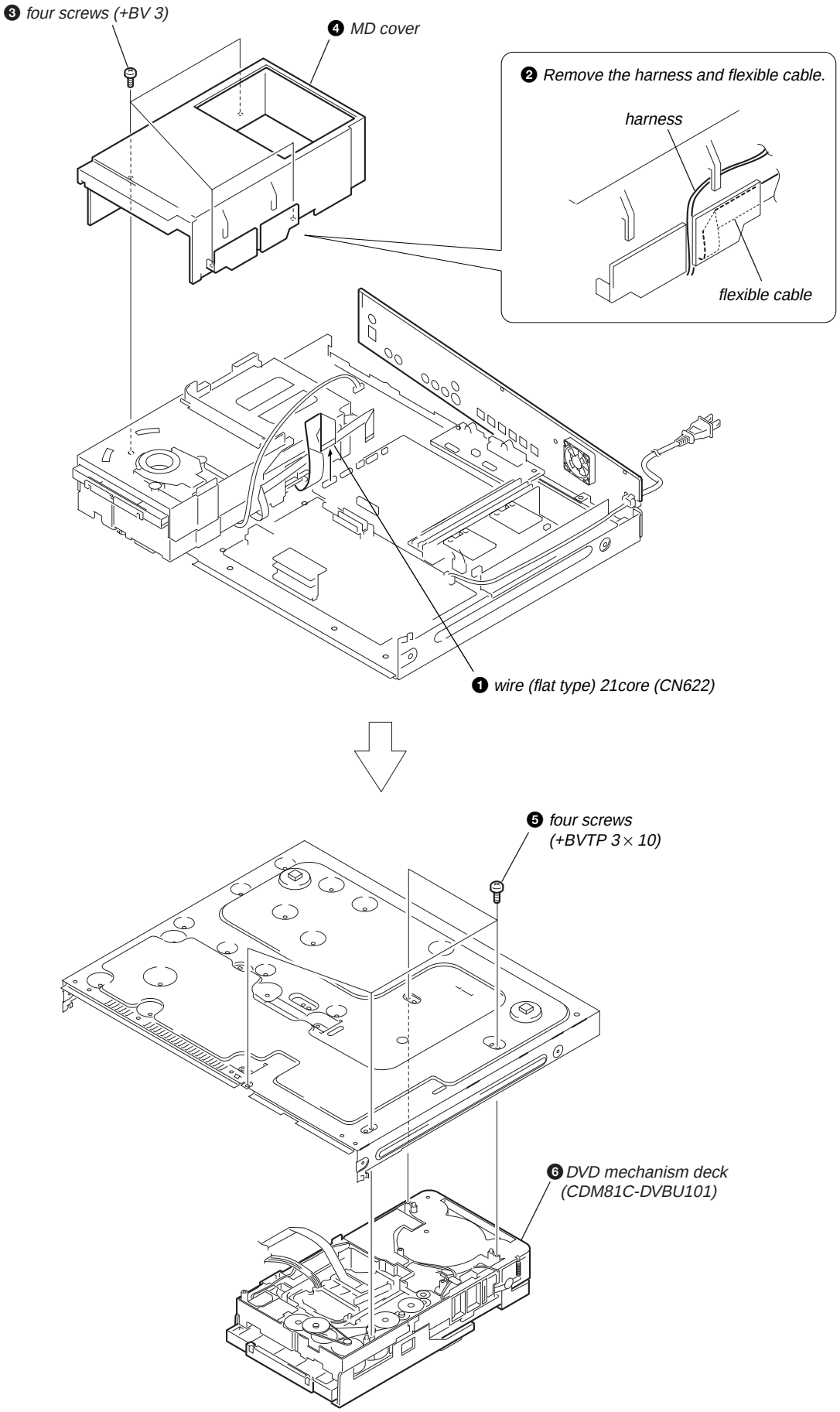
3-8. MAIN BOARD



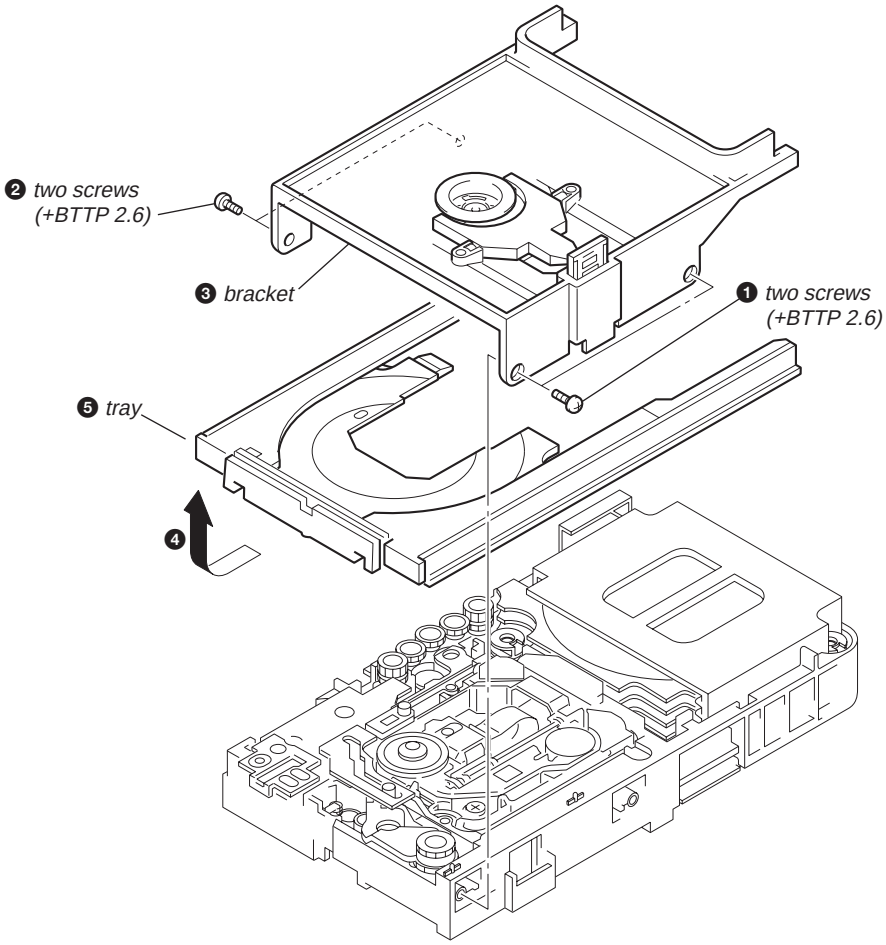
3-9. POWER BOARD



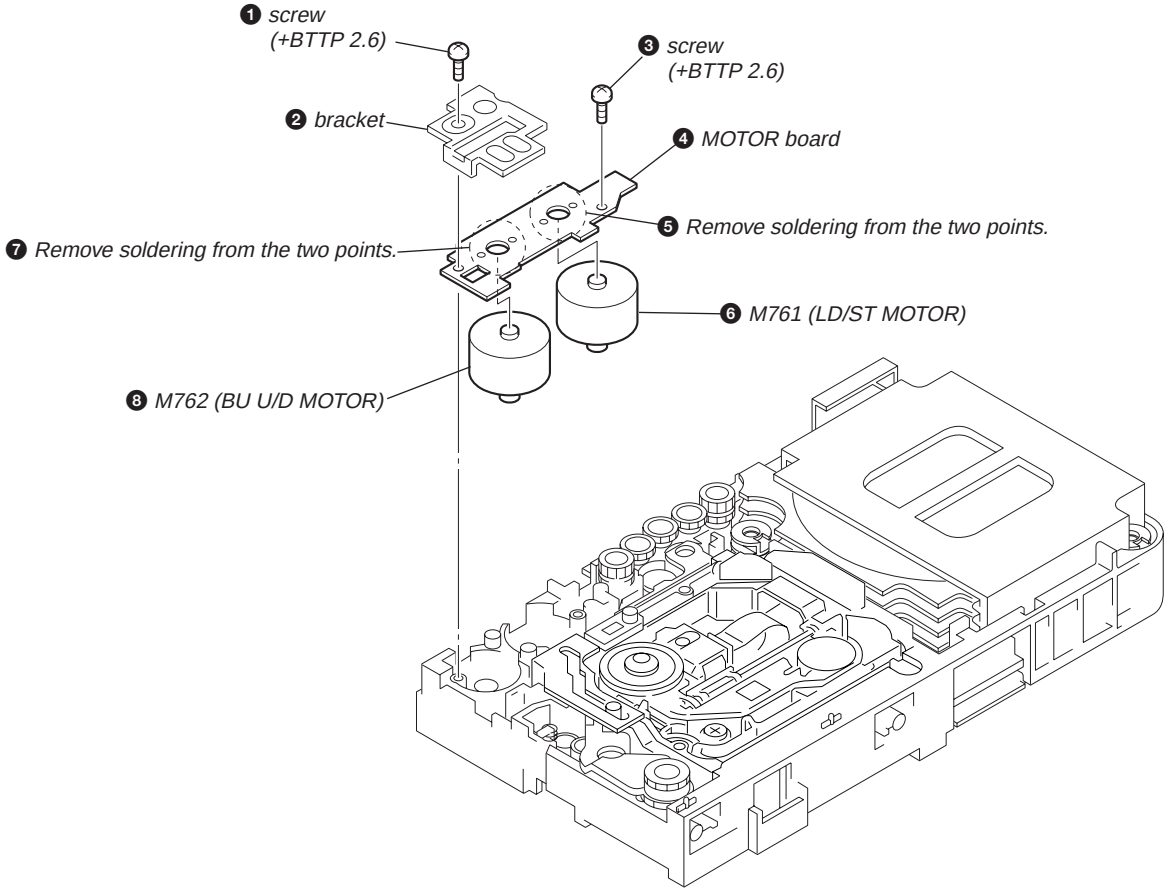
3-10. DVD MECHANISM DECK (CDM81C-DVBU101)



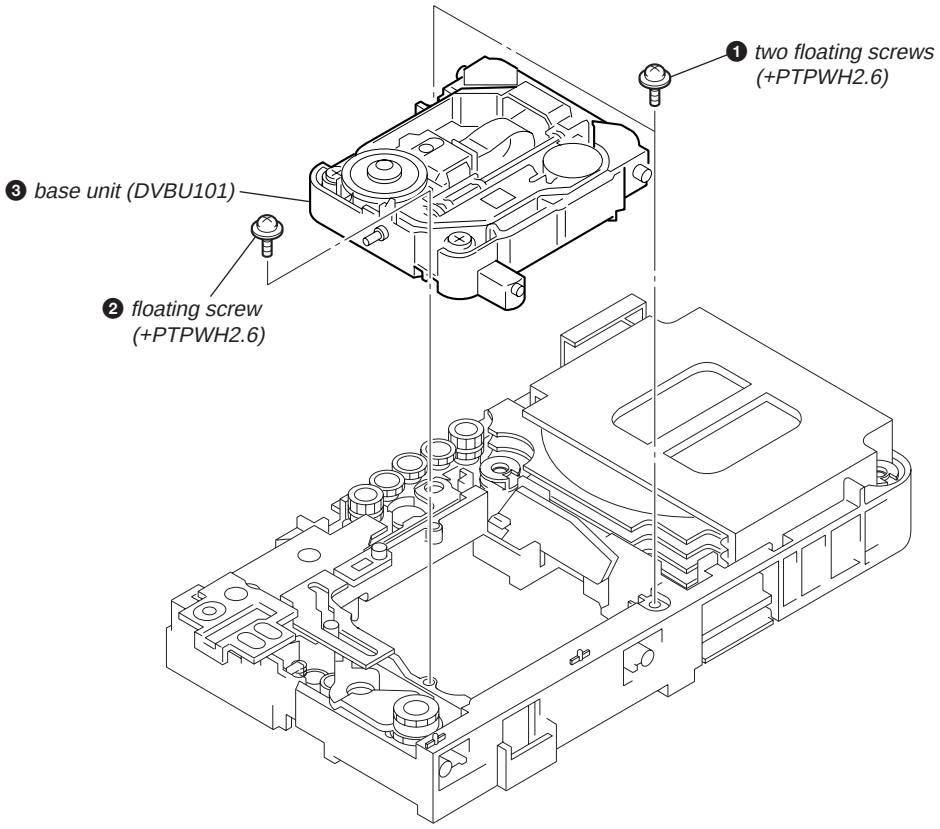
3-11. TRAY



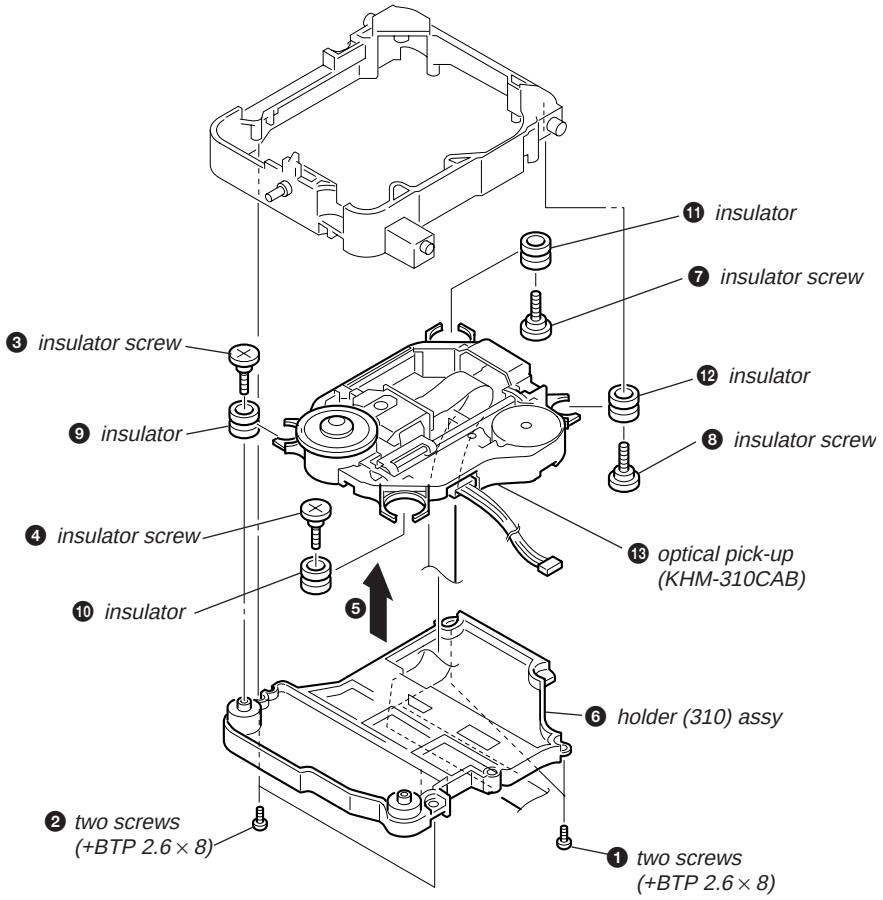
3-12. MOTOR BOARD M761 (LD/ST MOTOR), M762 (BU U/D MOTOR)



3-13. BASE UNIT (DVBU101)

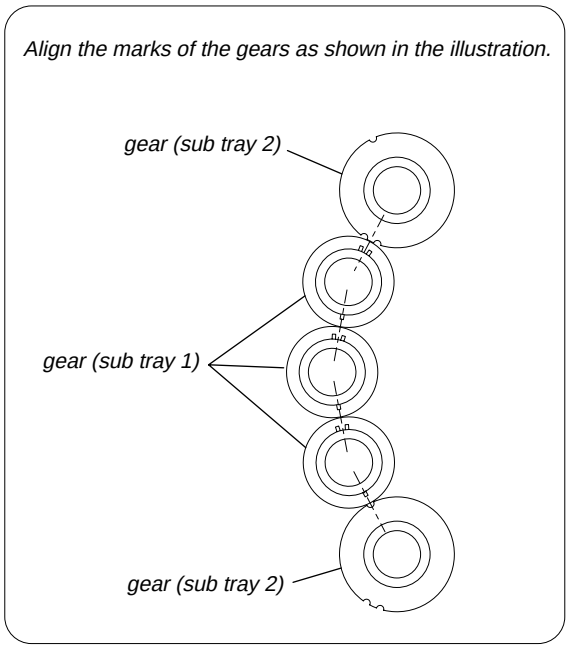


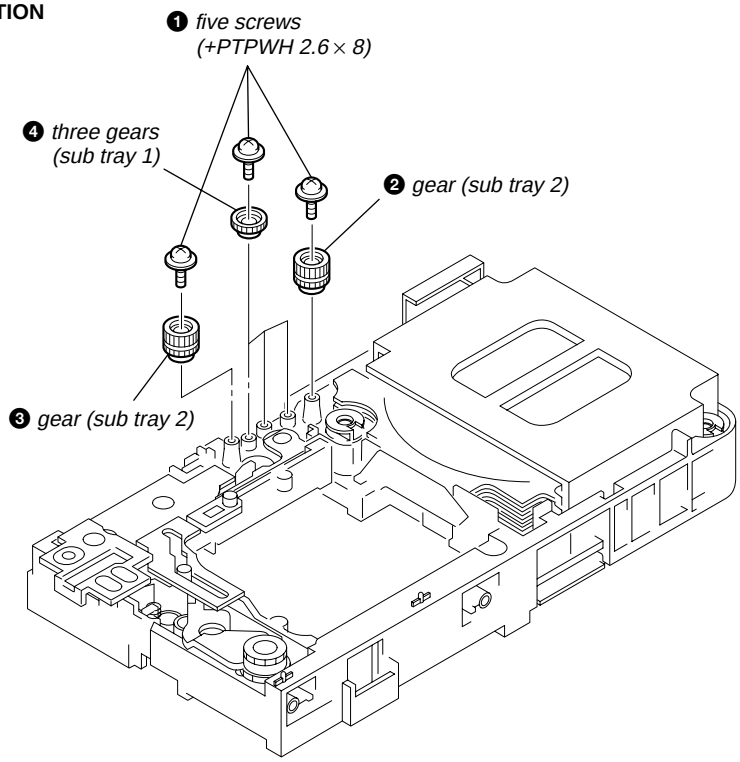
3-14. OPTICAL PICK-UP (KHM-310CAB)



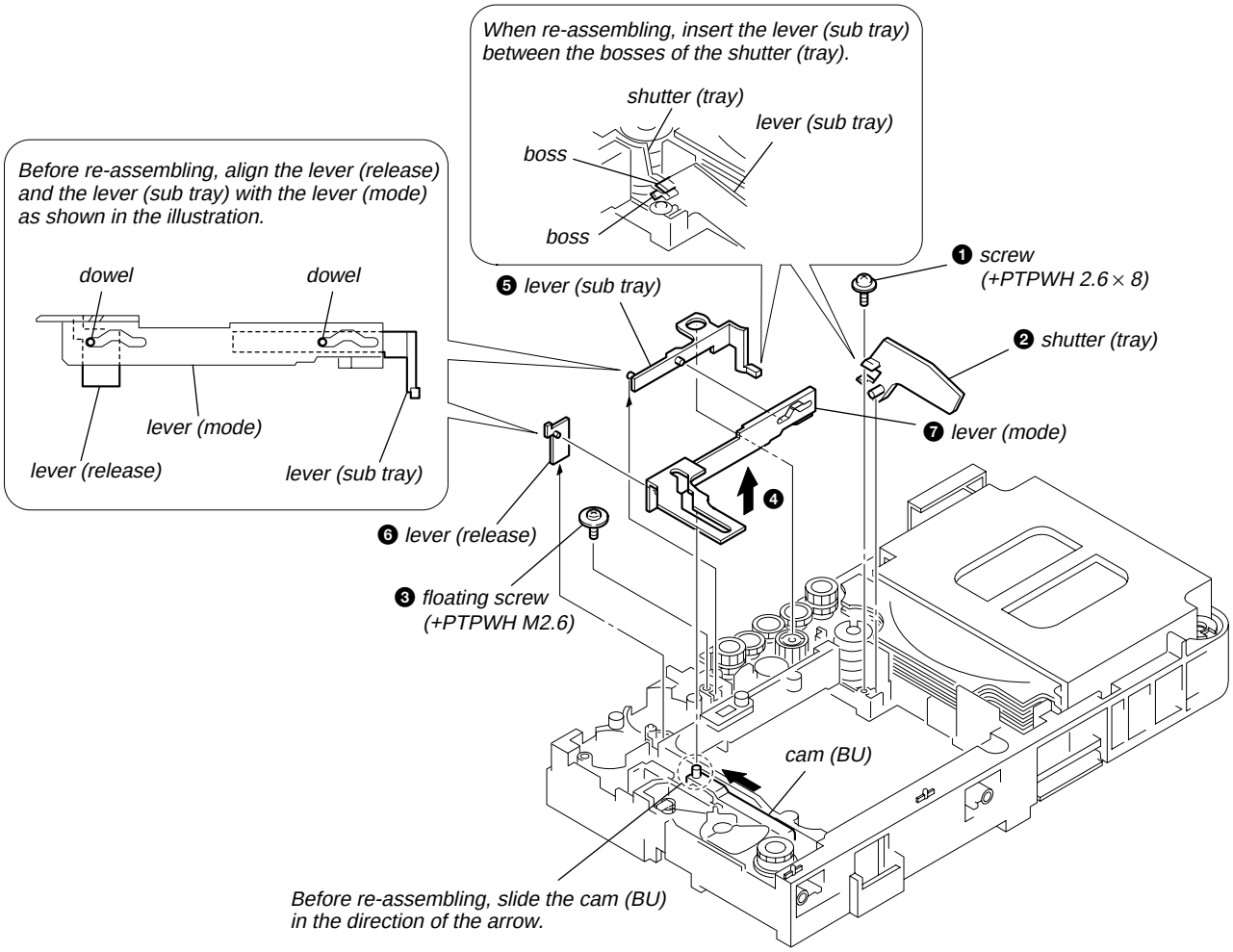
3-15. GEAR (SUB TRAY 1), GEAR (SUB TRAY 2)

PRECAUTION DURING GEAR (SUB TRAY 1/2) INSTALLATION

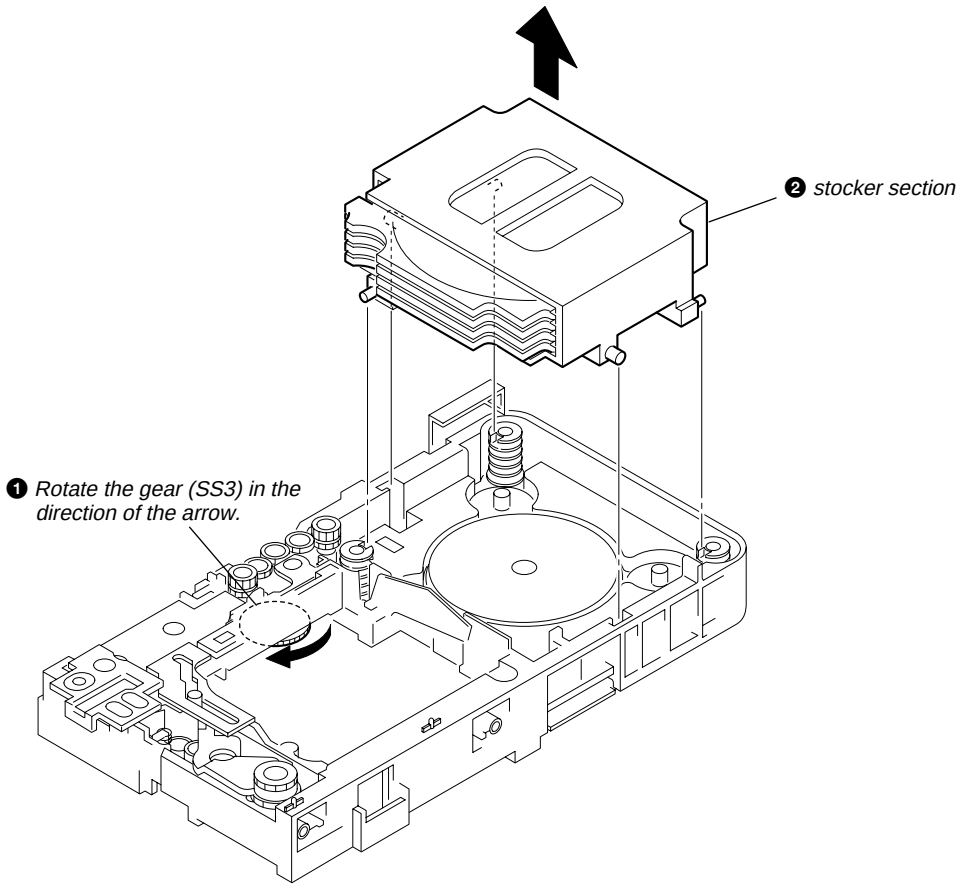




3-16. LEVER ASSY



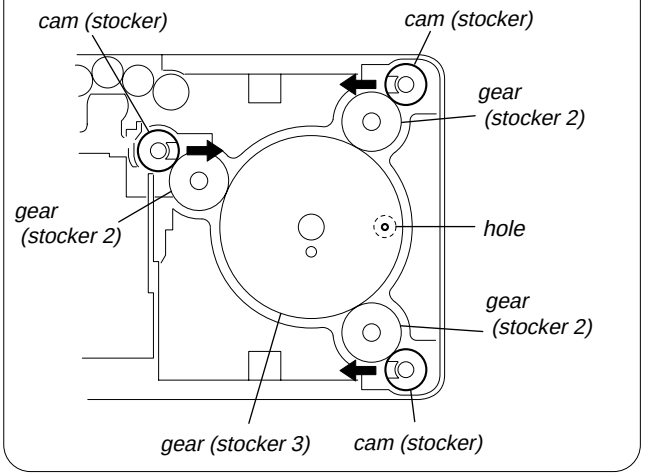
3-17. STOCKER SECTION

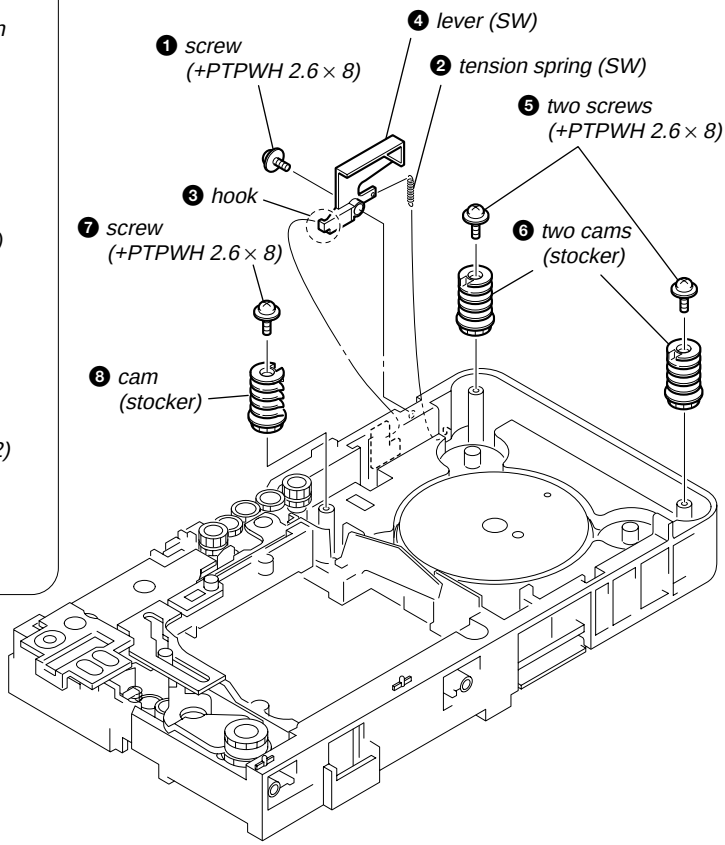


3-18. CAM (STOCKER)

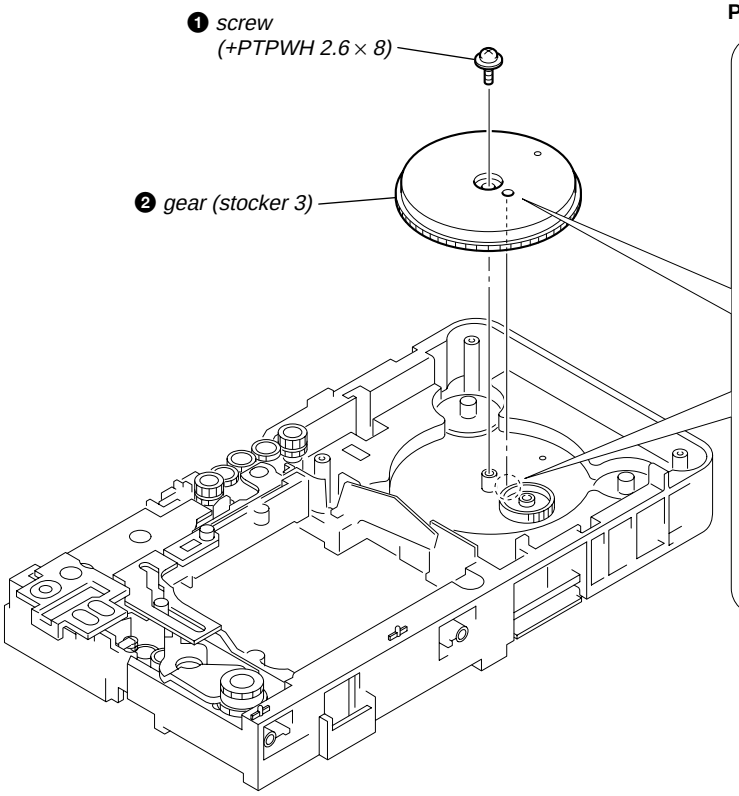
PRECAUTION DURING CAM (STOCKER) INSTALLATION

Before installing the cams (stocker), fix the gear (stocker 3) in the manner so that the hole of the gear (stocker 3) should be aligned with the hole of the chassis located beneath the gear (stocker 3). Be sure to install the cams (stocker) in such a way that the grooves of the cams (stocker) face the direction of the arrows.



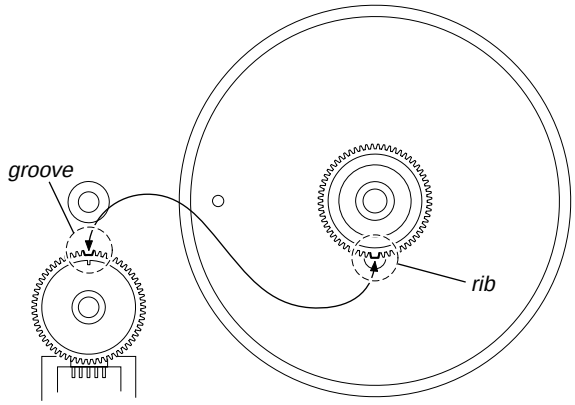


3-19. GEAR (STOCKER 3)



PRECAUTION DURING GEAR (STOCKER 3) INSTALLATION

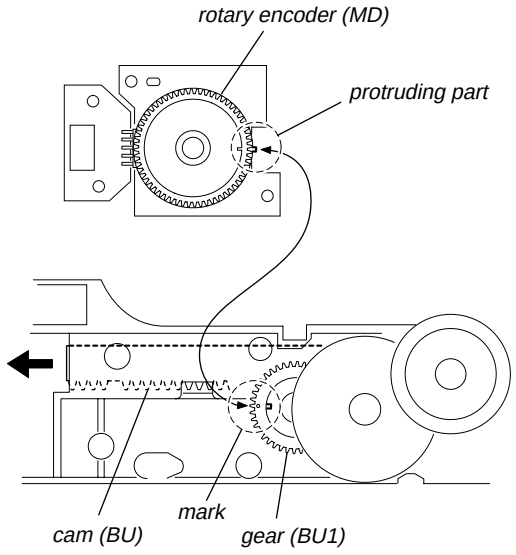
Be sure to align the rib of the gear (stocker 3) with the groove of the rotary encoder.

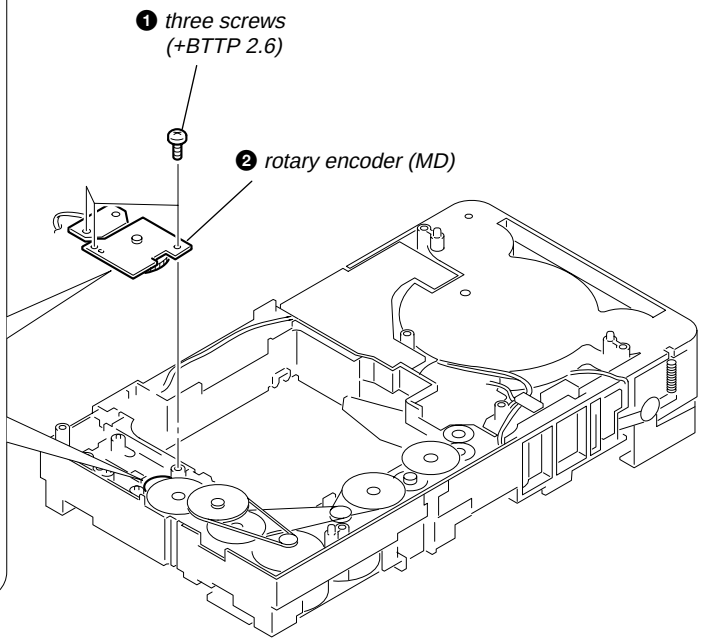


3-20. ROTARY ENCODER (MD)

PRECAUTION DURING ROTARY ENCODER (MD) INSTALLATION

Slide the cam (BU) in the direction of the arrow so that the mark of the gear (BU1) can be seen. Engage the gears while aligning the mark of the gear (BU1) with the protruding part of the rotary encoder.

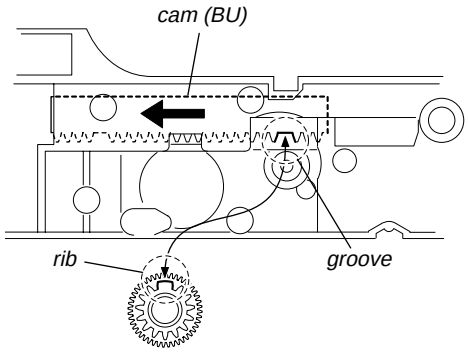


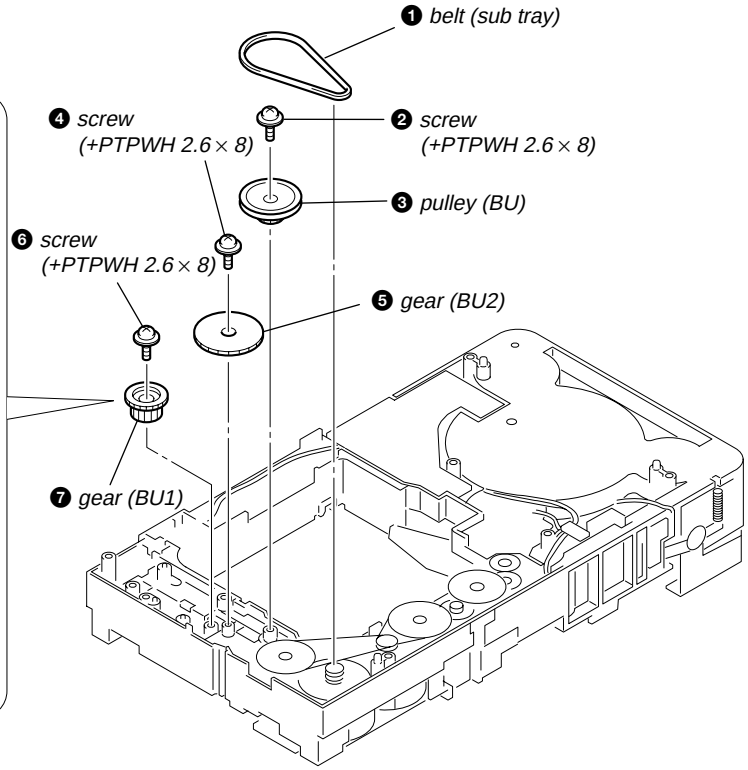


3-21. GEAR (BU1)

PRECAUTION DURING GEAR (BU1) INSTALLATION

Before re-assembling, slide the cam (BU) in the direction of the arrow.
Assemble the gear (BU1) in such a manner that the groove of the cam (BU) is aligned with the rib of the gear (BU1).





SECTION 4
TEST MODE

Note 1: Regarding the notification symbol "R"
Because the number of the operating buttons of this product are limited, some operations require use of the operating buttons of the remote commander, When a specific operation requires use of the operating buttons of the remote commander, "R" is added to the specific operating procedure in this manual. Example [MENU/NO "R"] The [MENU/NO] button of remote commander.

Note 2: Incorrect operations may be performed if the test mode is not entered properly.
In this case, press the [I/⏻] button to turn the power off, and retry to enter the test mode.

1. 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 customers.

Procedure:

1. Press the [I/⏻] button to turn the power on.
2. Press three buttons [■] , [⏏] and [I/⏻] simultaneously.
3. When this button is operated, display as "COLD RESET" for a while and all of the settings are reset.

2. Panel Test Mode

- This mode is used to check the software version, FL, LED and KEY.

2-1. Display Test Mode

Procedure:

1. Press the [I/⏻] button to turn the power on.
2. Press three buttons [⏸], [⏮] and [⏏] simultaneously.
3. When the display test mode is activated, all segments and LEDs are turned on.
4. To exit from this mode, press three buttons [⏸], [⏮] and [⏏] simultaneously.

2-2. Version Test Mode

Procedure:

1. When the panal test mode is activated, press the [⏮] button and the message "DCX3FD" is displayed, the version test mode is activated.
2. Whenever press the [⏮] button, the version is displayed in order of NA, MC, SYS, UI, DVD, CDMA, CDMB, ST, TA, DSP and TM.
3. Press the [⏭] button and the date of the softwafe production is displayed.
4. Press the [⏭] button again and the version is displayed.
5. To exit from this mode, press three buttons [⏸], [⏮] and [⏏] simultaneously.

2-3. Key Test Mode

Procedure:

1. When the panel test mode is activated, press the [▷] button, to select the key test mode.
2. To enter the KEY test mode, the fluorecent indicator displays "K0 V0". Each time a button is pressed, "KEY" value increases. However, once a button is pressed, it is no longer taken into account. When all keys are pressed correctly, "K13 V0" is displayed.
3. When the [VOLUME] control is turned in the direction of (+), "V0" is changed to "V1", then ... "V9".
   When the [VOLUME] control is turned in the direction of (–), "V0" is changed to "V9", then ... "V1".
4. To exit from this mode, press three buttons [⏸], [⏮] and [⏏] simultaneously.

3. Disc Tray Lock

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

Setting Procedure :

1. Press the [I/⏻] button to turn the set on.
2. Press the [FUNCTION] button to set DVD function.
3. Insert a disc.
4. Press the [■] button and the [⏏] button simultaneously for five seconds.
5. The message "LOCKED" is displayed and the tray is locked.

Releasing Procedure :

1. Press the [■] button and the [⏏] button simultaneously for five seconds. again.
2. The message "UNLOCKED" is displayed and the tray is unlocked.

Note: When "LOCKED" is displayed, the slot lock is not released by turning power on/off with the [I/⏻] button.

4. DVD Ship Mode

- Use this mode when returning the set to the customer after repair.

Procedure:

1. Press the [I/⏻] button to turn the set on.
2. Press the [FUNCTION] button to set the function "DVD".
3. Remove all discs, press two buttons [■], and [⏮] simultaneously.
4. After a message "MECHA LOCK" is displayed on the fluorescent indicator tube, pull out the AC plug.
5. To exit from this mode, press the [I/⏻] button to turn the set on.

5. AM Step Change

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

Procedure:

1. Press the [I/⏻] button to turn the set ON.
2. Select the function "TUNER", and press [FUNCTION] button to select the BAND "AM".
3. Press the [I/⏻] button to turn the set OFF.
4. Press two buttons [⏭] and [I/⏻] simultaneously, and the display of fluorescent indicator tube changes to "AM 9 k STEP" or "AM 10 k STEP", and thus the channel step is changed over.

6. Volume Test Mode

Procedure:

1. Press the [I/⏻] button to turn the power on.
2. Press three buttons [⏮], [▷] and [⏭] simultaneously.
3. The message "VOLUME MAX" is displayed, when the [VOLUME] control is turned in the dirction of (+).
   The message "VOLUME MIN" is displayed, when the [VOLUME] control is turned in the dirction of (–).
4. To exit from this mode, press the [I/⏻] button to turn the set off.

7. Product Out

This mode moves the optical pick-up to the position durable to vibration and clears all data including preset data stored in the RAM to initial conditions. Use this mode when returning the set to the customer after repair.

Procedure:

1. Press the [I/⏻] button to turn the power on.
2. Press the [FUNCTION] button to set the function "DVD".
3. Remove all discs, and then press three buttons [⏭], [⏏] and [I/⏻] simultaneously.
4. After the "STANDBY" blinking display finishes, the message "MECHA LOCK" is displayed on the fluorescent indicator tube disconnect the AC power plug, then the ship mode is set.

DVD SECTION

[TEST DISC LIST]

Be sure to use the DVD disc that matches the signal standards of your region.

- CD YEDS-18 (Part No.: 3-702-101-01)
  PATD-012 (Part No.: 4-225-203-01)
- DVD SL (Single Layer)
  NTSC : HLX-503 (Part No.: J-6090-069-A)
  HLX-504 (Part No.: J-6090-088-A)
  PAL : HLX-506 (Part No.: J-6090-077-A)
- DVD DL (Dual Layer)
  NTSC : HLX-501 (Part No.: J-6090-071-A)
  HLX-505 (Part No.: J-6090-089-A)
  PAL : HLX-507 (Part No.: J-6090-078-A)

8-1. GENERAL DESCRIPTION

The Mirror Time and IOP measurement allows you to make diagnosis and adjustment simply by using the remote commander and monitor TV. The instructions, diagnosis results, etc. are given on the on-screen display (OSD).
Be sure to execute the Mirror Time and IOP measurement when a BU (Base Unit) is replaced.

8-2. HOW TO ENTER TEST MODE

While pressing the ■ and ⏏ buttons simultaneously, turn VOLUME + with the DVD player in power on.
The Test Mode starts, then the menu shown below will be displayed on the TV screen.

```
Remocon Diagnosis Menu

0. External Chip Check
1. Servo Parameter Check
2. Drive Manual Operation
3. Emergency History Check
4. Version Information


Model Name  : DCX3FD_UC
IF-con      : Ver. XX.XX (XXXX)
Syscon      : Ver. X.XXX
```

The menu above is the Remocon Diagnosis Menu screen which consists of six main function. At the bottom of the menu screen, the model name and IF-con version. To enter Mirror Time Adjustment menu, press button 2 “R” on the remote commander to enter Drive Manual Operation menu. To exit from the Test Mode, press the power button on the remote commander.

8-3. DRIVE MANUAL OPERATION

The Drive Manual Operation menu consists of five main function. By pressing 2 “R” button on the remote commander in the Remocon Diagnosis Menu, the screen will appear as below.

```
Drive Manual Operation

1. Servo Control
2. Track/Layer Jump
3. Manual Adjustment
4. Tray Aging Mode
5. MIRR time Adjust
0. Return to Top Menu
```

8-4. MIRROR TIME ADJUSTMENT

To enter Mirror Time Adjustment, press 5 “R” button on the remote commander. The screen will appear as below.

```
MIRR time Adjust Menu

1. CD MIRR time Check:
2. DVD MIRR time Check:
3. Threshold:
4. Save to EEPROM:
5. Default set MIRR time:

[Open] Tray open [Close] Tray close
[0] Return to previous menu
```

There are five main commands in the Mirr time Adjust menu as shown in the figure above. The functions of each command are described in the following page.

1. CD MIRR time Check
This command checks the Mirror time value for CD disc.

2. DVD MIRR time Check
This command checks the Mirror time value for DVD disc.

3. Threshold
This command displays the threshold value between CD and DVD mirror time.

4. Save to EEPROM
This command saves an adjusted mirror time value to the EEPROM.

5. Default set MIRR time
This command will set CD and DVD mirror time to firmware default value.

[Open] / [Close]
Pressing the ⏏ button controls the tray for disc change during mirror time adjustment.
[0] Return to previous menu
Press the 0 “R” button to return to previous menu.

8-4-1. EXECUTING MIRROR TIME ADJUSTMENT

In order to execute mirror time adjustment, the following standard procedures must be followed.

(1) In power on, while pressing the ■ and ⏏ buttons simultaneously, turn VOLUME +.
(2) Select “2. Drive Manual Operation”.

```
Remocon Diagnosis Menu

0. External Chip Check
1. Servo Parameter Check
2. Drive Manual Operation
3. Emergency History Check
4. Version information


Model Name  : DCX3FD_UC
IF-con      : Ver. XX.XX (XXXX)
Syscon      : Ver. X.XXX
```

(3) Select “5. MIRR time Adjust”.

```
Drive Manual Operation

1. Servo Control
2. Track/Layer Jump
3. Manual Adjustment
4. Mecha test mode
5. MIRR time Adjust
0. Return to Top Menu
```

(4) Select “5. Default set MIRR time”.

```
MIRR time Adjust Menu

1. CD MIRR time Check:
2. DVD MIRR time Check:
3. Threshold:
4. Save to EEPROM:
5. Default set MIRR time:

[Open] Tray open [Close] Tray close
[0] Return to previous menu
```

(5) Select “3. Threshold”.

(6) Confirm the number. If it is 7D, go to next step. If it is any other value, return to step 4.

```
MIRR time Adjust Menu

1. CD MIRR time Check:
2. DVD MIRR time Check:
3. Threshold: (7D) ←
4. Save to EEPROM:
5. Default set MIRR time:

[Open] Tray open [Close] Tray close
[0] Return to previous menu
```

(7) Push the ⏏ button to eject tray.

(8) Insert Test Disc HLX-504 into tray.

(9) Push the ⏏ button to close tray.

(10) Push “2. DVD MIRR time Check”.

(11) Wait for HEX number to display.

(12) Confirm the number, if XX is 28 – 70, proceed with next step. If no, return to 8.

```
MIRR time Adjust Menu

1. CD MIRR time Check:
2. DVD MIRR time Check: xx (XX)
3. Thereshold:
4. Save to EEPROM:
5. Default set MIRR time:

[Open] tray open [close] Tray close
[0] Return to previous menu
```

(13) Push “4. Save to EEPROM”.

(14) Confirm the same values are displayed. If it is not same, return to step 7.

```
MIRR time Adjust Menu

1. CD MIRR time Check:
2. DVD MIRR time Check: (XX XX)
3. Threshold:
4. Save to EEPROM:
5. Default set MIRR time:

[Open] Tray open [close] Tray close
[0] Return to previous menu
```

(15) Push the ⏏ button to eject tray.

(16) Take out HLX-504 and insert Test Disc YEDS-18 into tray.

(17) Push the ⏏ button to close tray.

(18) Push “1. CD MIRR time check”.

(19) Wait for HEX number to display.

(20) Confirm the number, if YY is 5A – E8, proceed with next step. If no, return to 15.

```
MIRR time Adjust Menu

1. CD MIRR time Check: yy (YY)
2. DVD MIRR time Check: XX XX
3. Threshold:
4. Save to EEPROM:
5. Default set MIRR time:

[Open] Tray open [close] Tray close
[0] Return to previous menu
```

(21) Push “4. Save to EEPROM”.

(22) Confirm the same values are displayed. If it is not the same, return to step 15.

```
MIRR time Adjust Menu

1. CD MIRR time check: (YY YY)
2. DVD MIRR time check: XX XX
3. Threshold:
4. Save to EEPROM:
5. Default set MIRR time:

[Open] Tray open [close] Tray close
[0] Return to previous menu
```

(23) Push the ⏏ button to eject tray.

(24) Remove Test Disc YEDS-18 from tray.

(25) Push the ⏏ button to close tray.

(26) Press the [0 “R”] button to the Drive Manual Operation menu.

(27) Press the [0 “R”] button to return to the Remocon Diagnosis Menu.

(28) Press the [I/⏻] button to switch OFF set.

8-5. EXECUTING IOP MEASUREMENT

In order to execute mirror time adjustment, the following standard procedures must be followed.

(1) In standby mode, while pressing the ■ and ⏏ buttons simultaneously, turn VOLUME + .

```
Remocon Diagnosis Menu

0. External Chip Check
1. Servo Parameter Check
2. Drive Manual Operation
3. Emergency History Check
4. Version information


Model Name : DCX3FD_UC
IF-con     : Ver. XX.XX (XXXX)
Syscon     : Ver. X.XXX
```

(2) Select "2. Drive Manual Operation" by pressing the 2 "R" button on the remote commander. The screen will appear as below.

```
Drive Manual Operation

1. Servo Control
2. Track/Layer Jump
3. Manual Adjustment
4. Tray Aging Mode
5. MIRR time adjust
0. Return to top Menu
```

(3) Select "3. Manual Adjustment" by pressing the 3 "R" button on the remote commander. The screen will appear as below.

```
Manual Adjust

1. Track Balance Adjust:
2. Track Gain Adjust:
3. Focus Balance Adjust:
4. Focus Gain Adjust:
5. Eg boost Adjust:
6. Iop:
7. TRV. Level:
8. S curve(FE) Level:
9. RFL(PI) Level:
0. MIRR Time:

↓ ↑ Change Value
[RETURN] Return to previous menu
```

(4) Select Iop by pressing the 6 "R" button on the remote commander.

(5) Wait until a hexadecimal number appear.

```
Manual Adjust

1. Track Balance Adjust:
2. Track Gain Adjust:
3. Focus Balance Adjust:
4. Focus Gain Adjust:
5. Eq Boost Adjust:
6. Iop.(5B:)
7. TRV. Level:
8. S curve(FE) Level:
9. RFL(PI) Level:
0. MIRR Time:

Change Value
[0] Return to previous menu
```

(6) Convert each data from hexadecimal to decimal using conversion table.

(7) Substract between these two values.

(8) If the remainder is smaller than 93 (decimal), then it is OK. However if the value is higher than 93, then the BU is defective and need to be change.

(9) Press the RETURN "R" button to return back to previous menu.

(10) Press the 0 "R" button to return to Top Menu and power OFF the DVD Player.

SECTION 5
ELECTRICAL ADJUSTMENT

DVD SECTION

When the base unit is replaced, perform the adjustment and the measurement as shown below in this order.

1) MIRROR TIME ADJUSTMENT (See page 29)
2) EXECUTING IOP MEASUREMENT (See page 31)

[TEST DISC LIST]

Be sure to use the DVD disc that matches the signal standards of your region.

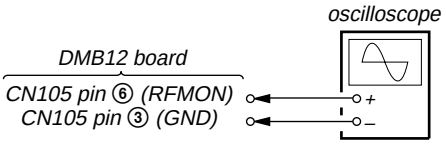
• CD
YEDS-18 (Part No.: 3-702-101-01)
PATD-012 (Part No.: 4-225-203-01)

• DVD SL (Single Layer)
NTSC : HLX-503 (Part No.: J-6090-069-A)
HLX-504 (Part No.: J-6090-088-A)
PAL : HLX-506 (Part No.: J-6090-077-A)

• DVD DL (Dual Layer)
NTSC : HLX-501 (Part No.: J-6090-071-A)
HLX-505 (Part No.: J-6090-089-A)
PAL : HLX-507 (Part No.: J-6090-078-A)

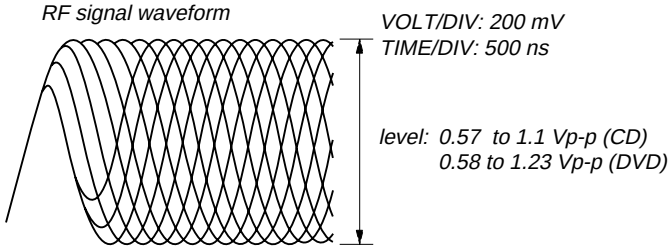
[RF Level Check]

Connection:



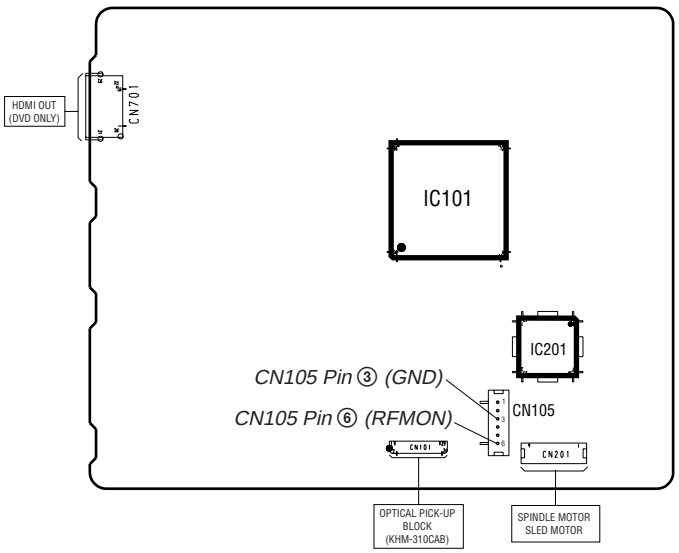
Procedure:

1. Connect an oscilloscope to CN105 pin ⑥ (RFMON) and CN105 pin ③ (GND) on the DMB12 board.
2. Turn the power on.
3. Insert the CD test disc (refer to the TEST DISC LIST), and press the ▷ button to play the disc back.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.
   Note: A clear RF signal waveform means that the shape "◊" can be clearly distinguished at the center of the waveform.
5. Eject the CD disc, and insert the DVD SL test disk (refer to the TEST DISC LIST), and press the ▷ button to play the disc back.



Checking Location: DMB12 board (Side A)

【 DMB12 BOARD 】(SIDE A)



SECTION 6
DIAGRAMS

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

For Schematic Diagrams.
Note:

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

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

☆ New part of EEP ROM (IC103, IC706) on the DMB12 board cannot be used. Therefore, if the mounted DMB12 board (A-1148-813-A) is replaced, exchange new EEP ROM (IC103, IC706) with that used before the replacement.

- ▬ : B+ Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages and waveforms are dc with respect to ground in service mode.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
  no mark : DVD STOP
  * : Impossible to measure
- Voltages are taken with VOM (Input impedance 10 MΩ).
- Circled numbers refer to waveforms.
- Signal path.
  : AUDIO
  : CD PLAY
  : DVD PLAY
  : SACD PLAY
  : TUNER
  : VIDEO
  : Y
  : CHROMA
  : COMPONENT VIDEO
  : AUDIO IN

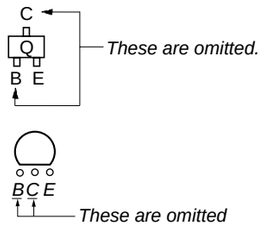
For Printed Wiring Boards.
Note:

- ○——— : parts extracted from the component side.
- ○ : Through hole.
- ▬ : Pattern from the side which enables seeing.

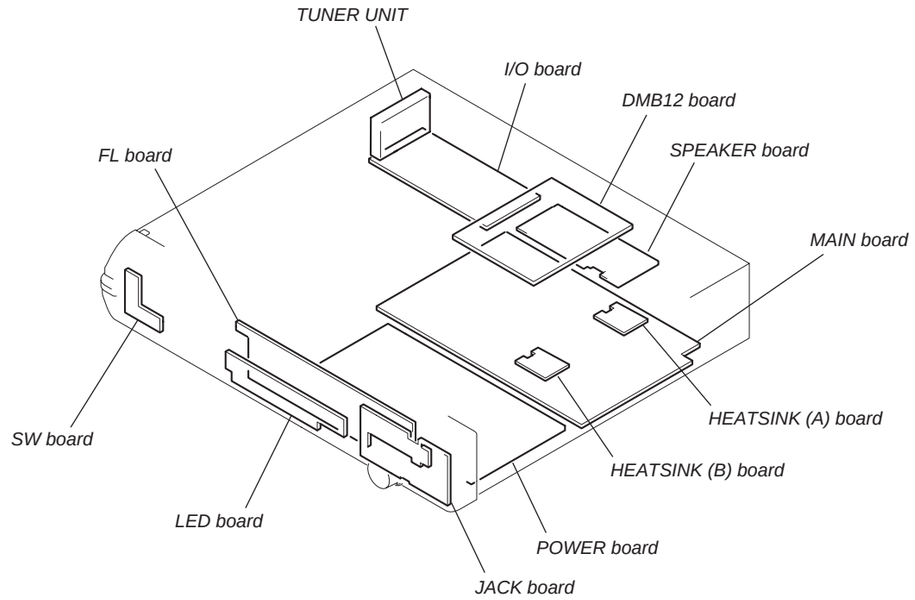
(The other layers' patterns are not indicated.)

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

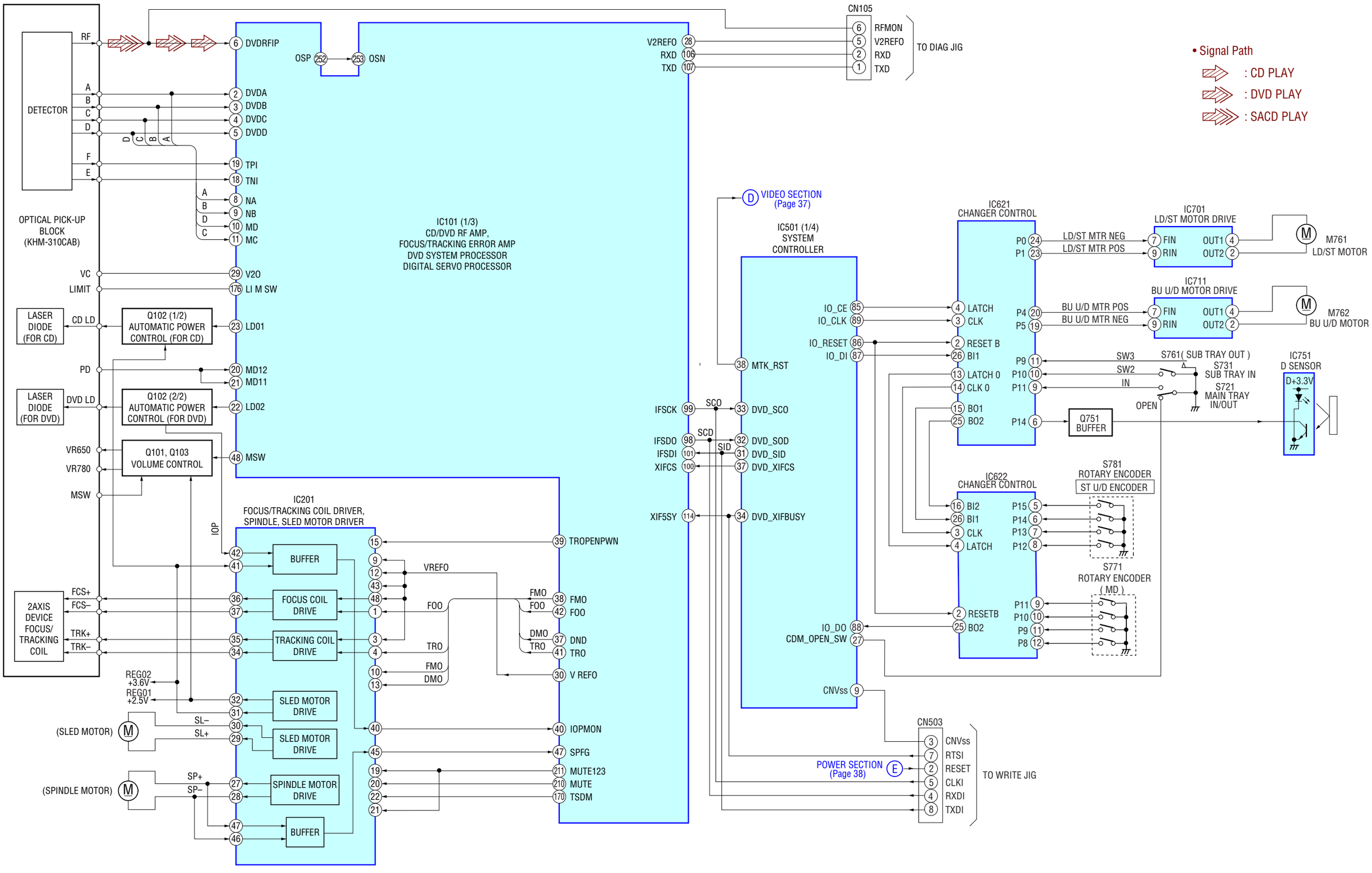
- Indication of transistor.



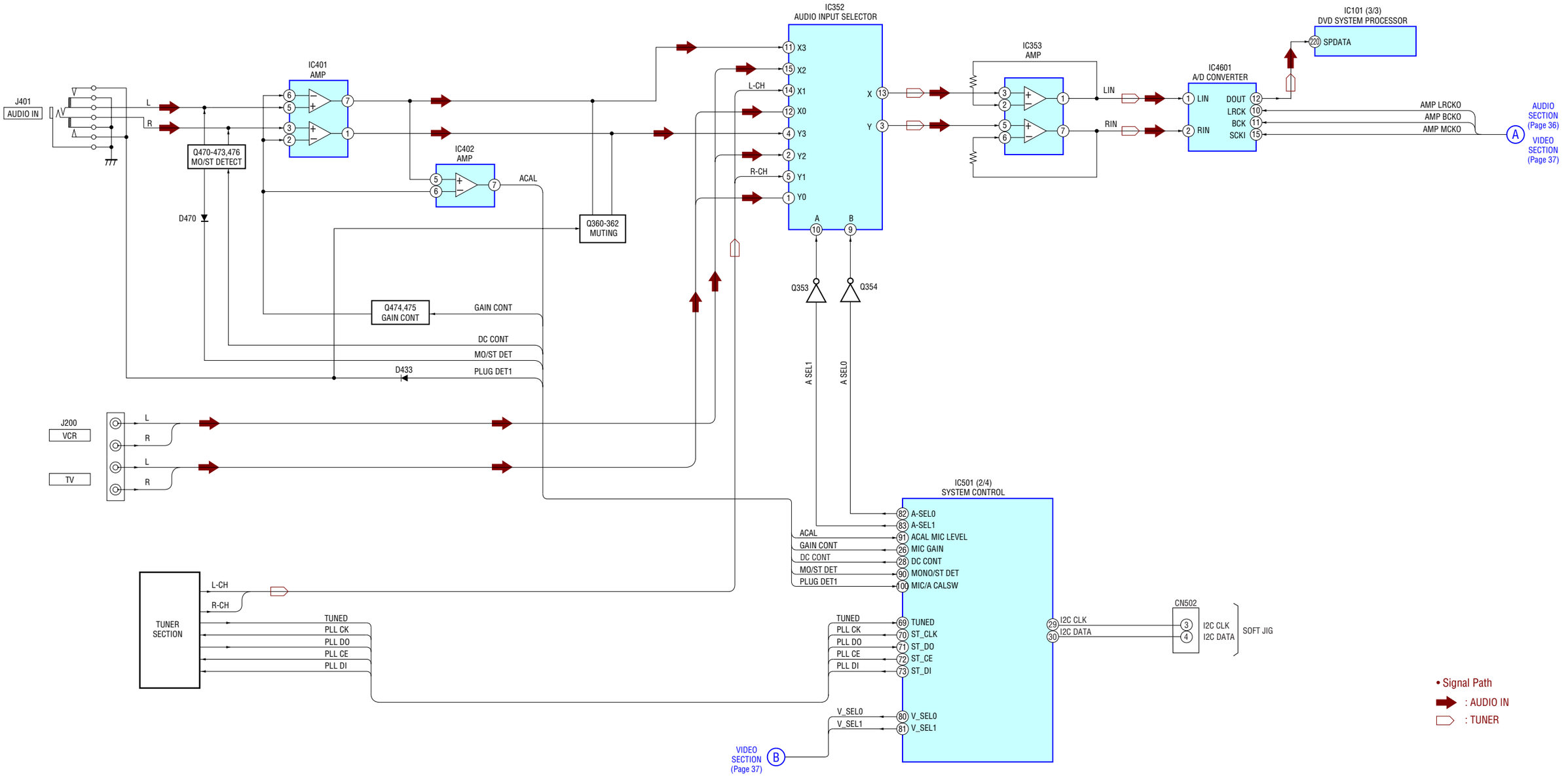
• Circuit Boards Location



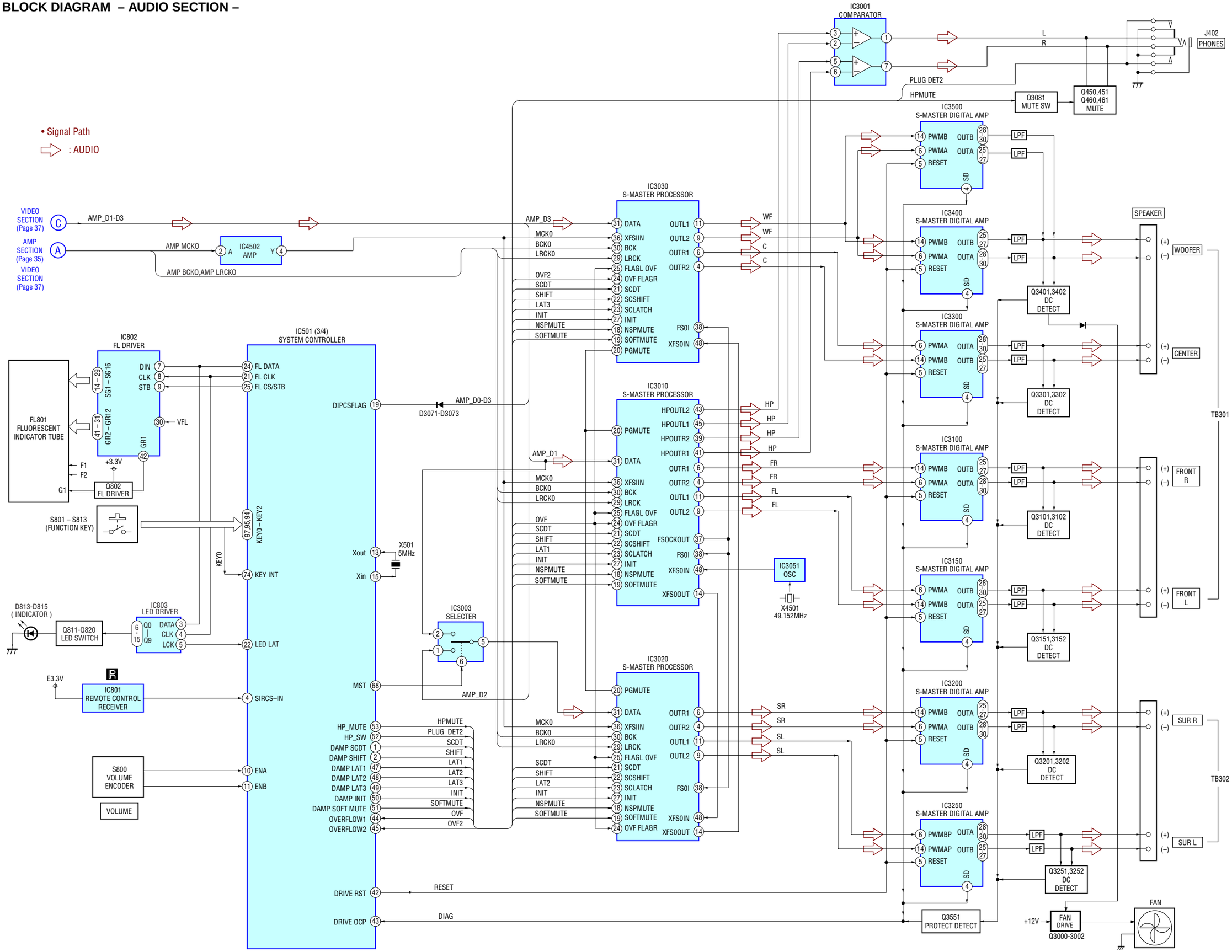
6-1. BLOCK DIAGRAM – RF SECTION –



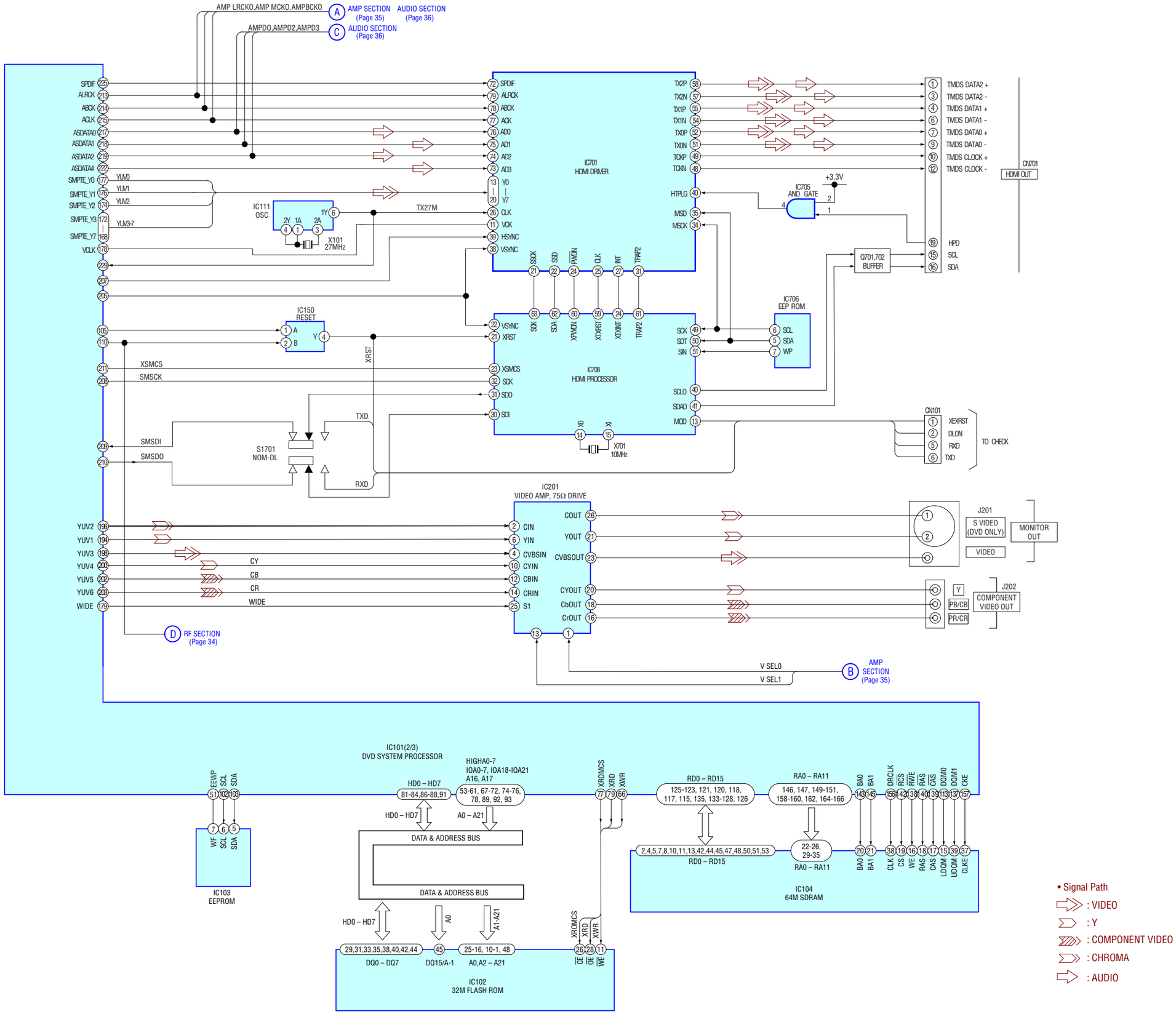
6-2. BLOCK DIAGRAM – AMP SECTION –



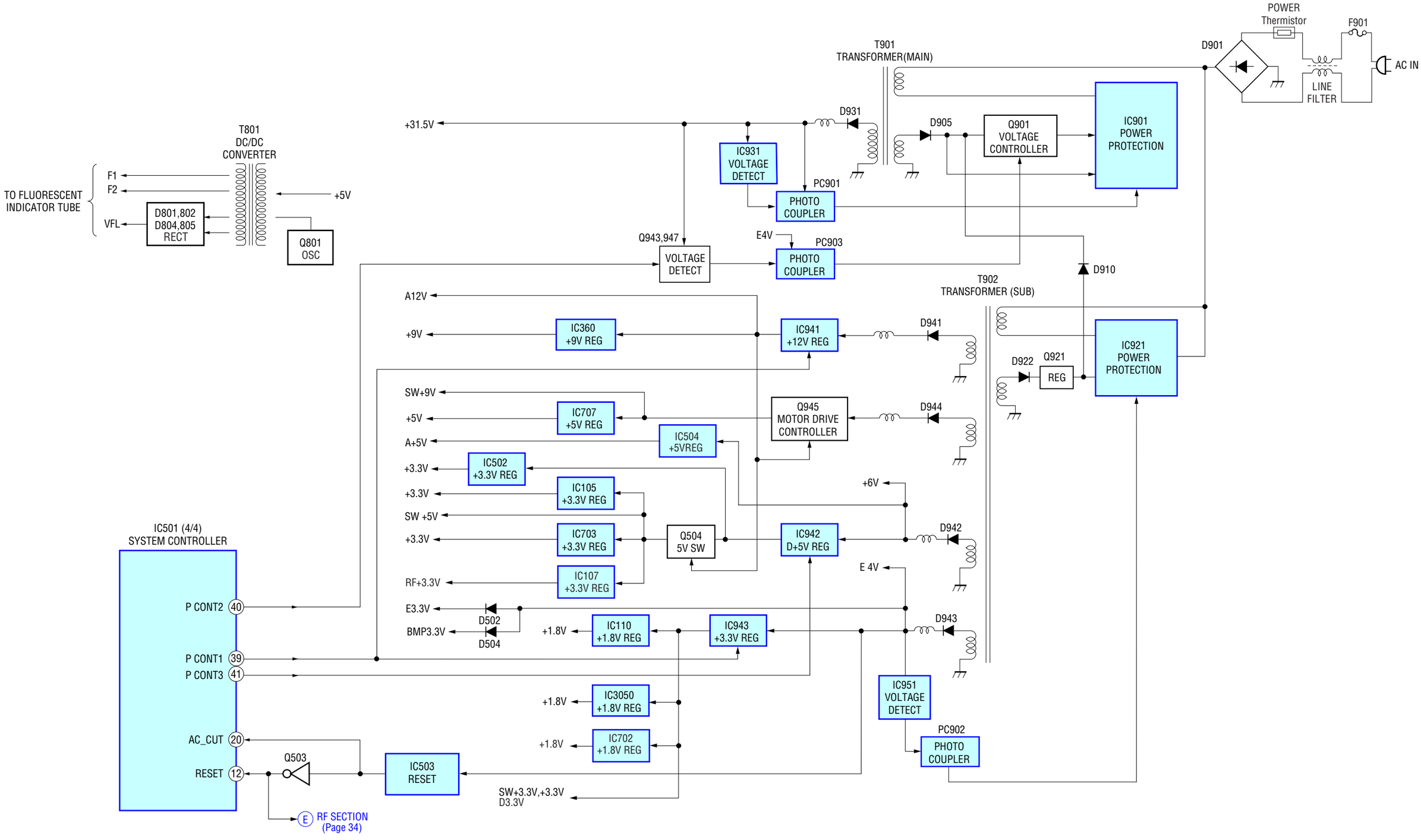
6-3. BLOCK DIAGRAM – AUDIO SECTION –



6-4. BLOCK DIAGRAM – VIDEO SECTION –



6-5. BLOCK DIAGRAM – POWER SECTION –

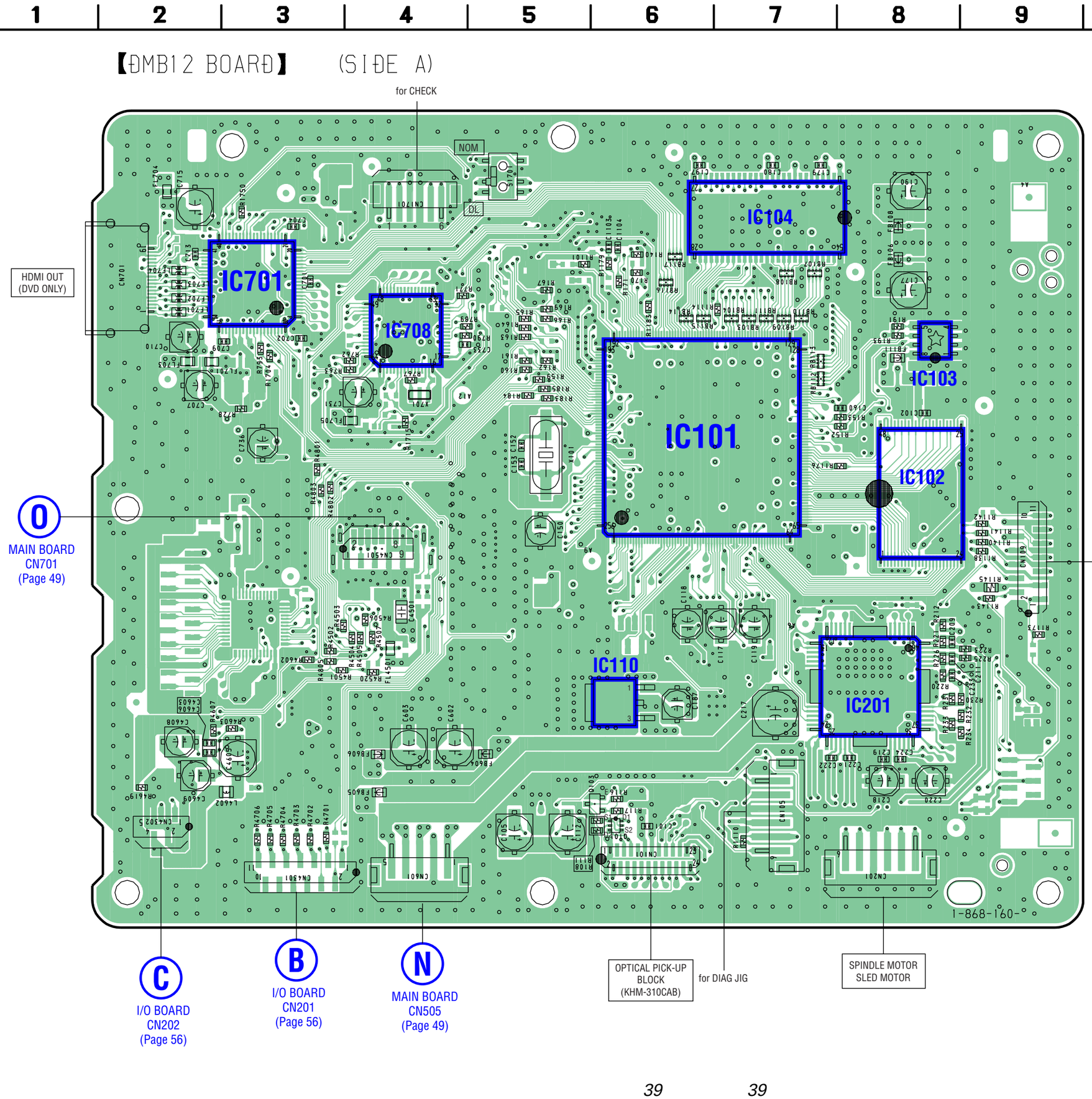


6-6. PRINTED WIRING BOARD – DMB12 BOARD (SIDE A) –

• See page 33 for Circuit Boards Location.

:Uses unleaded solder.

【DMB12 BOARD】 (SIDE A)



☆ New part of EEP ROM (IC103, IC706) on the DMB12 board cannot be used.
Therefore, if the mounted MAIN board (A-1148-813-A) is replaced, exchange new EEP ROM (IC103, IC706) with that used before the replacement.

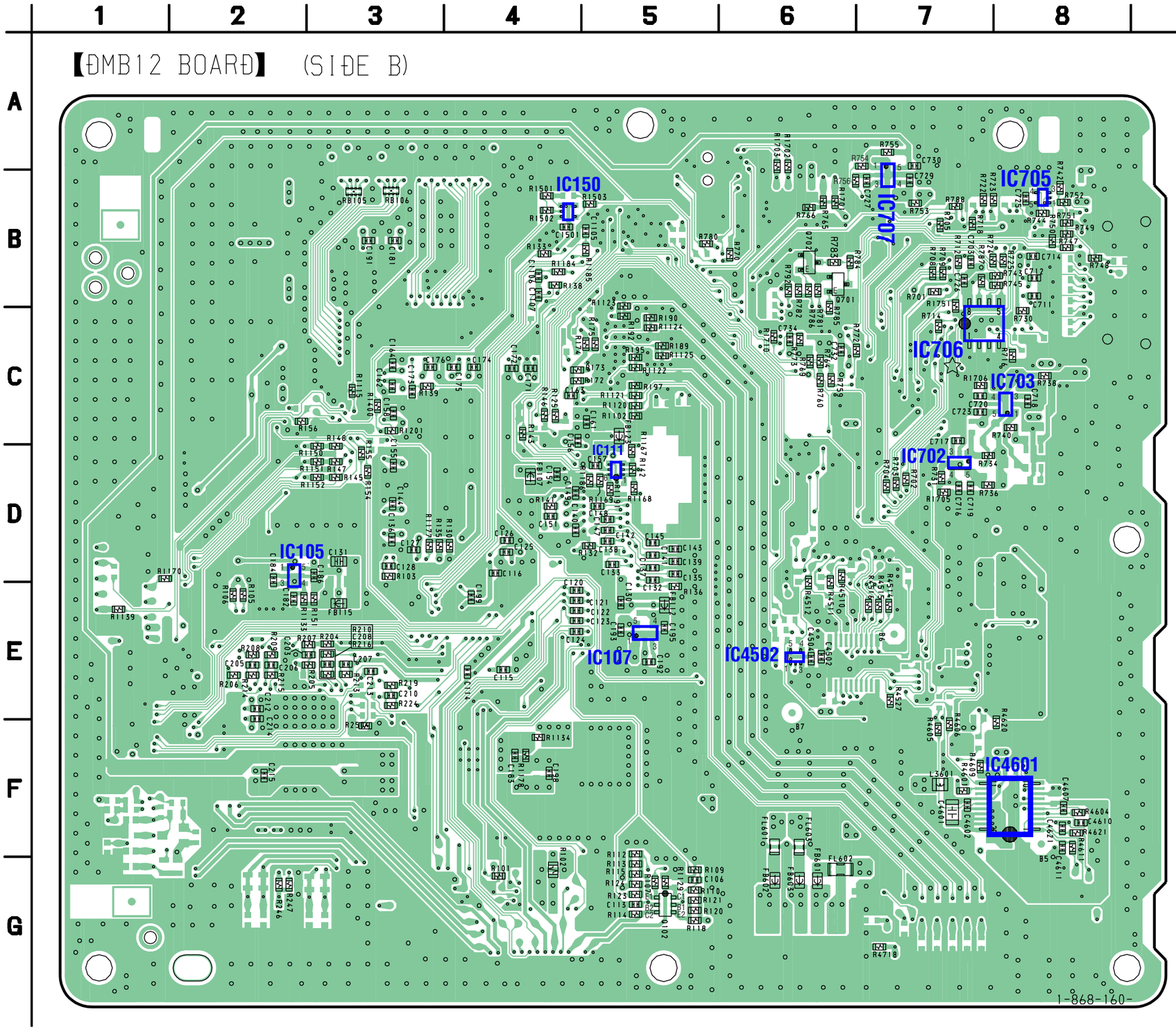
- **Semiconductor Location**

Ref. No.	Location
IC101	D-6
IC102	D-8
IC103	C-8
IC104	B-7
IC110	F-6
IC201	F-8
IC701	C-3
IC708	C-4
Q101	G-6
Q103	G-6

6-7. PRINTED WIRING BOARD – DMB12 BOARD (SIDE B) –

• See page 33 for Circuit Boards Location. :Uses unleaded solder.

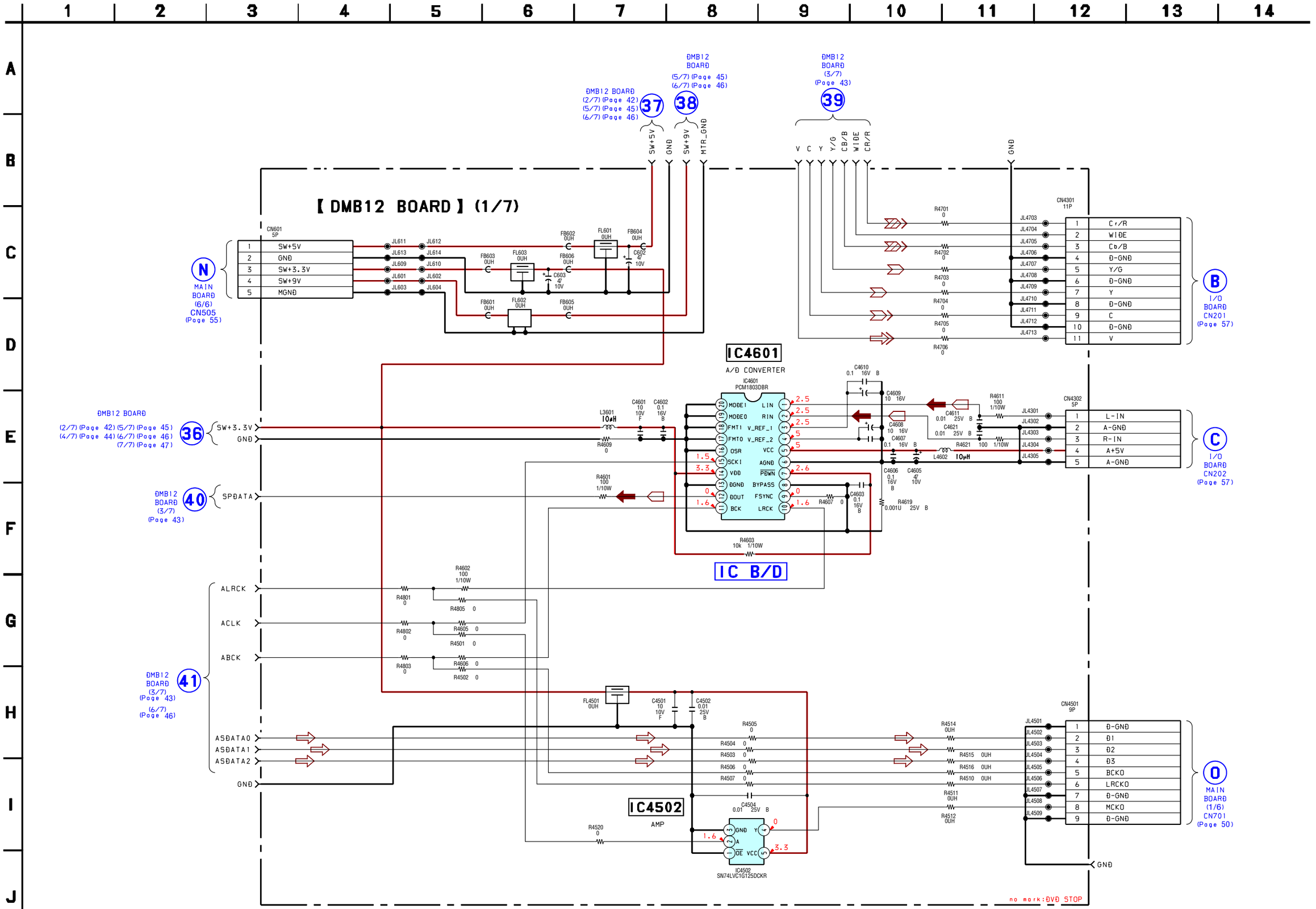
【DMB12 BOARD】 (SIDE B)



• **Semiconductor Location**

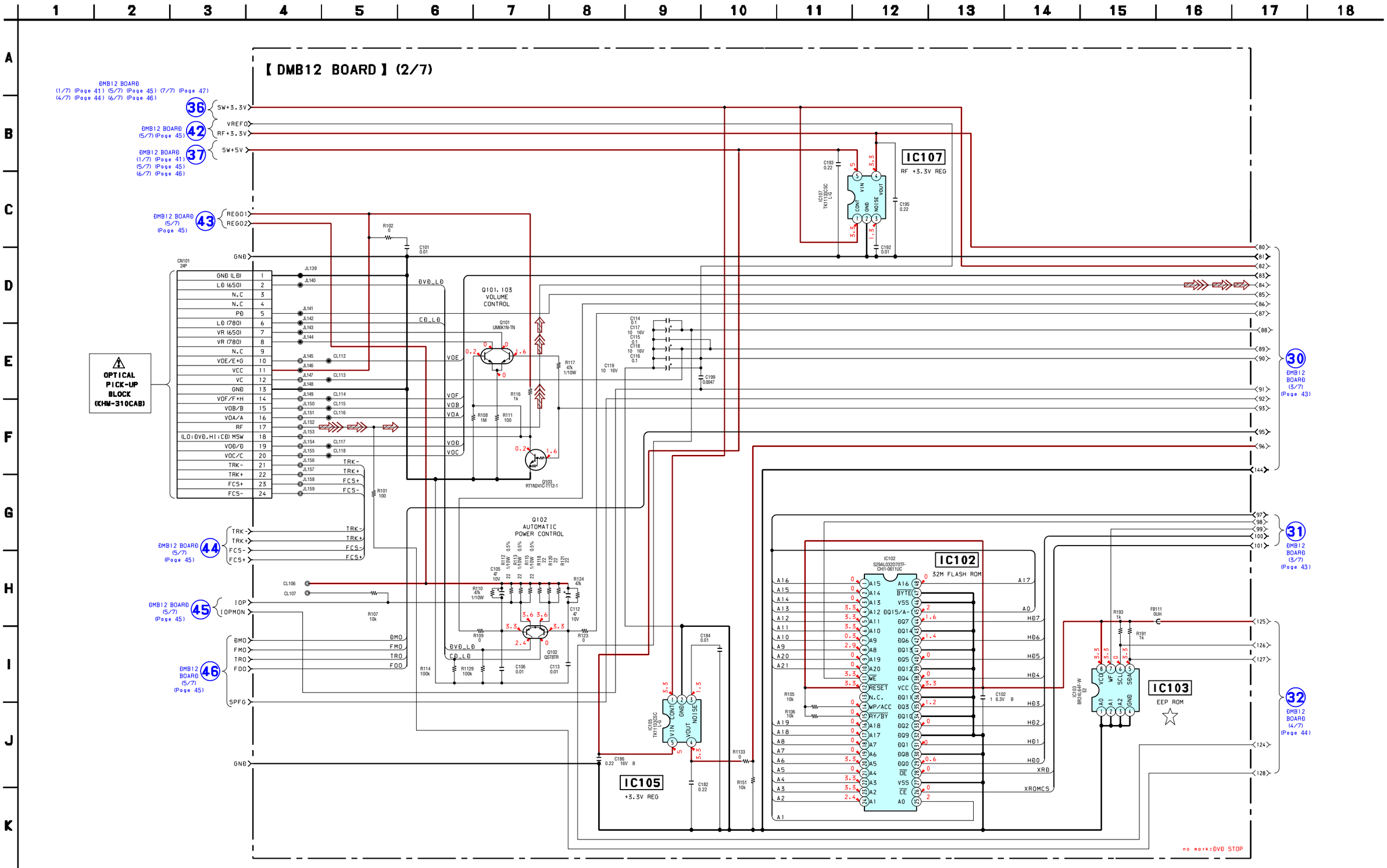
Ref. No.	Location
IC105	D-2
IC107	E-5
IC111	D-5
IC150	B-4
IC702	D-7
IC703	C-8
IC705	B-8
IC706	C-7
IC707	B-7
IC4502	E-6
IC4601	F-8
Q102	G-5
Q701	B-6
Q702	B-6

6-8. SCHEMATIC DIAGRAM – DMB12 BOARD (1/7) – • See page 66 for IC Block Diagram.



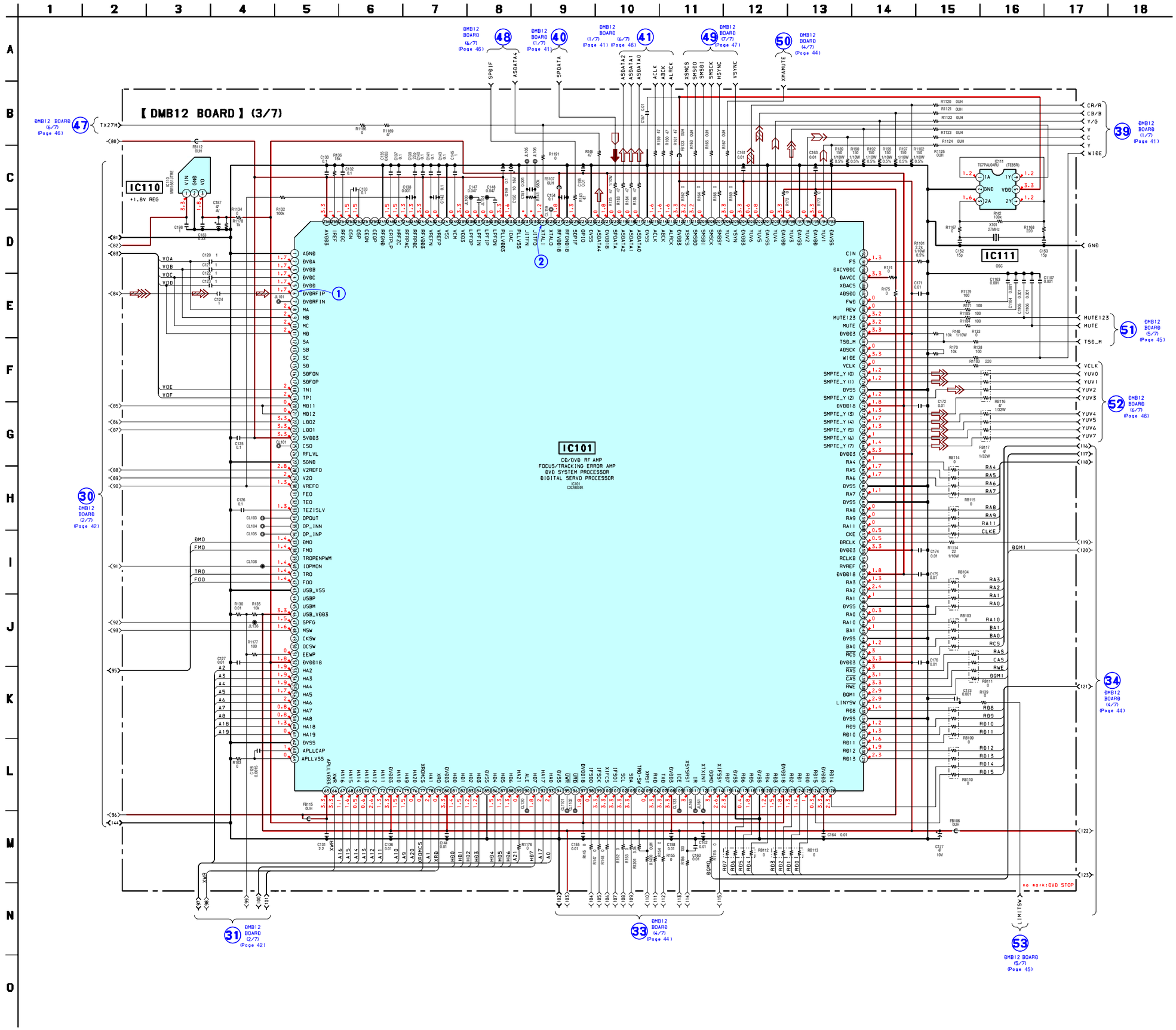
6-9. SCHEMATIC DIAGRAM – DMB12 BOARD (2/7) –

☆ New part of EEP ROM (IC103, IC706) on the DMB12 board cannot be used. Therefore, if the mounted MAIN board (A-1148-813-A) is replaced, exchange new EEP ROM (IC103, IC706) with that used before the replacement.



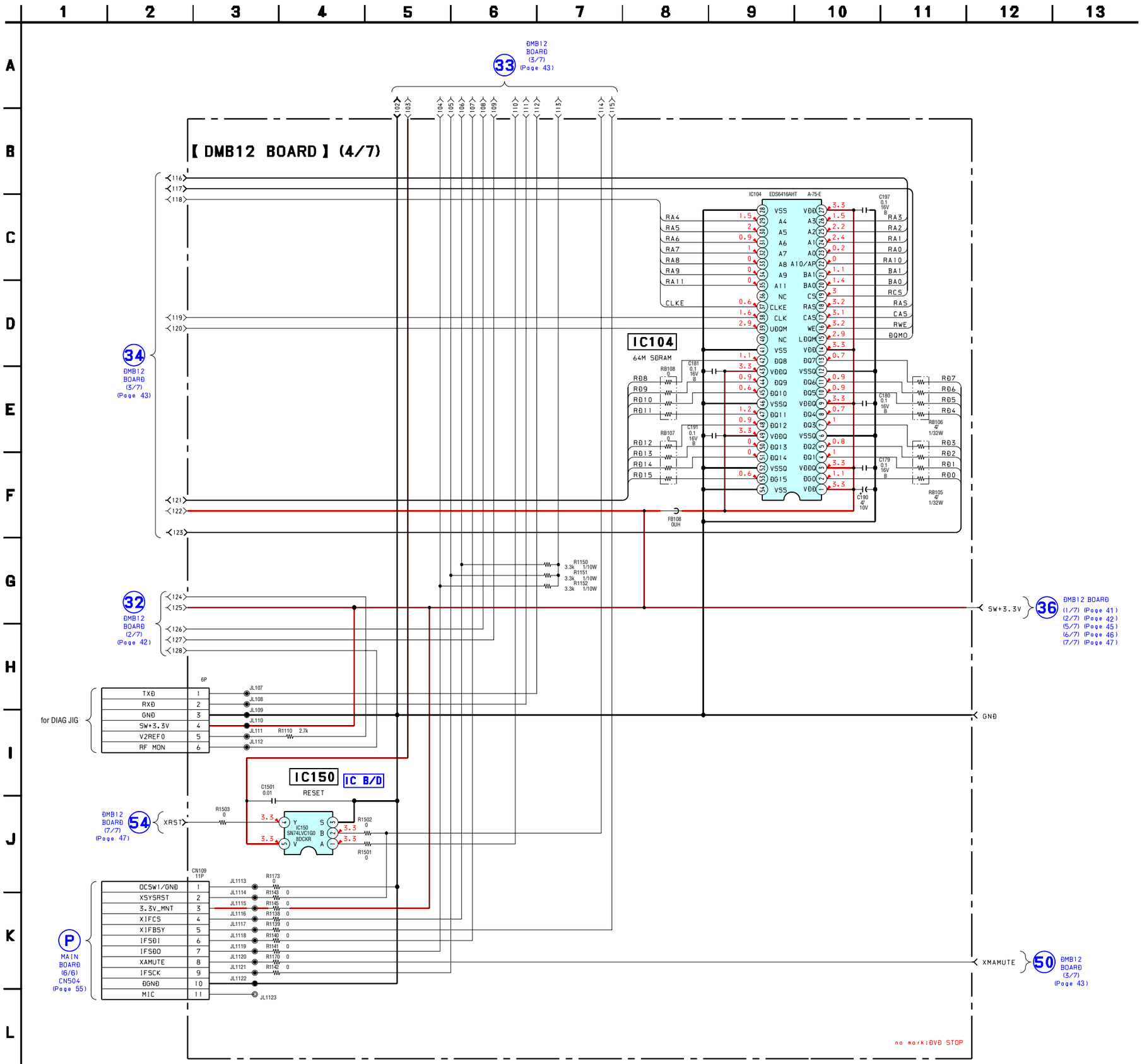
6-10. SCHEMATIC DIAGRAM – DMB12 BOARD (3/7) –

• See page 65 for Waveforms. • See page 73 for IC Pin Function Description.

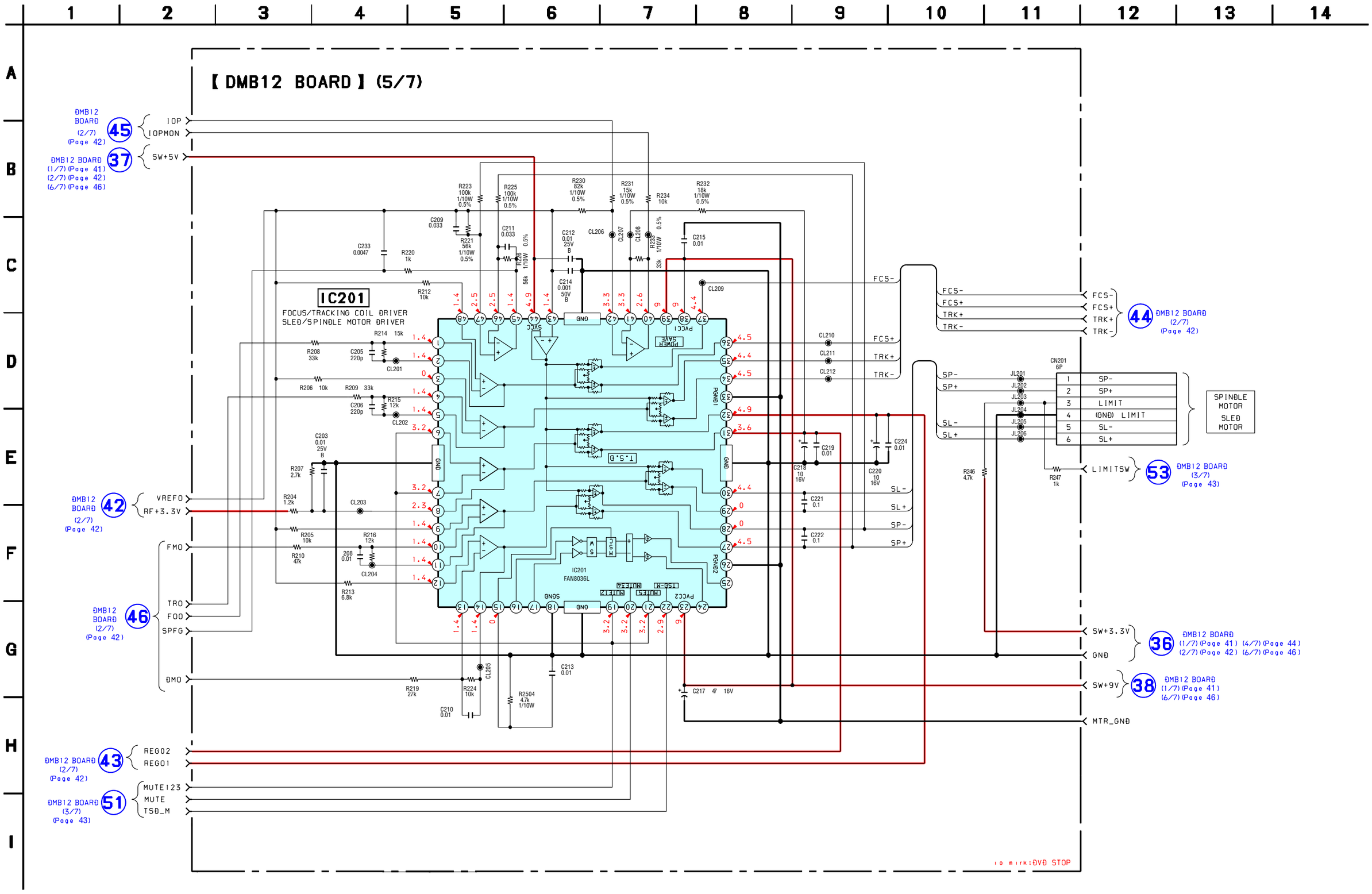


6-11. SCHEMATIC DIAGRAM – DMB12 BOARD (4/7) –

• See page 67 for IC Block Diagram.



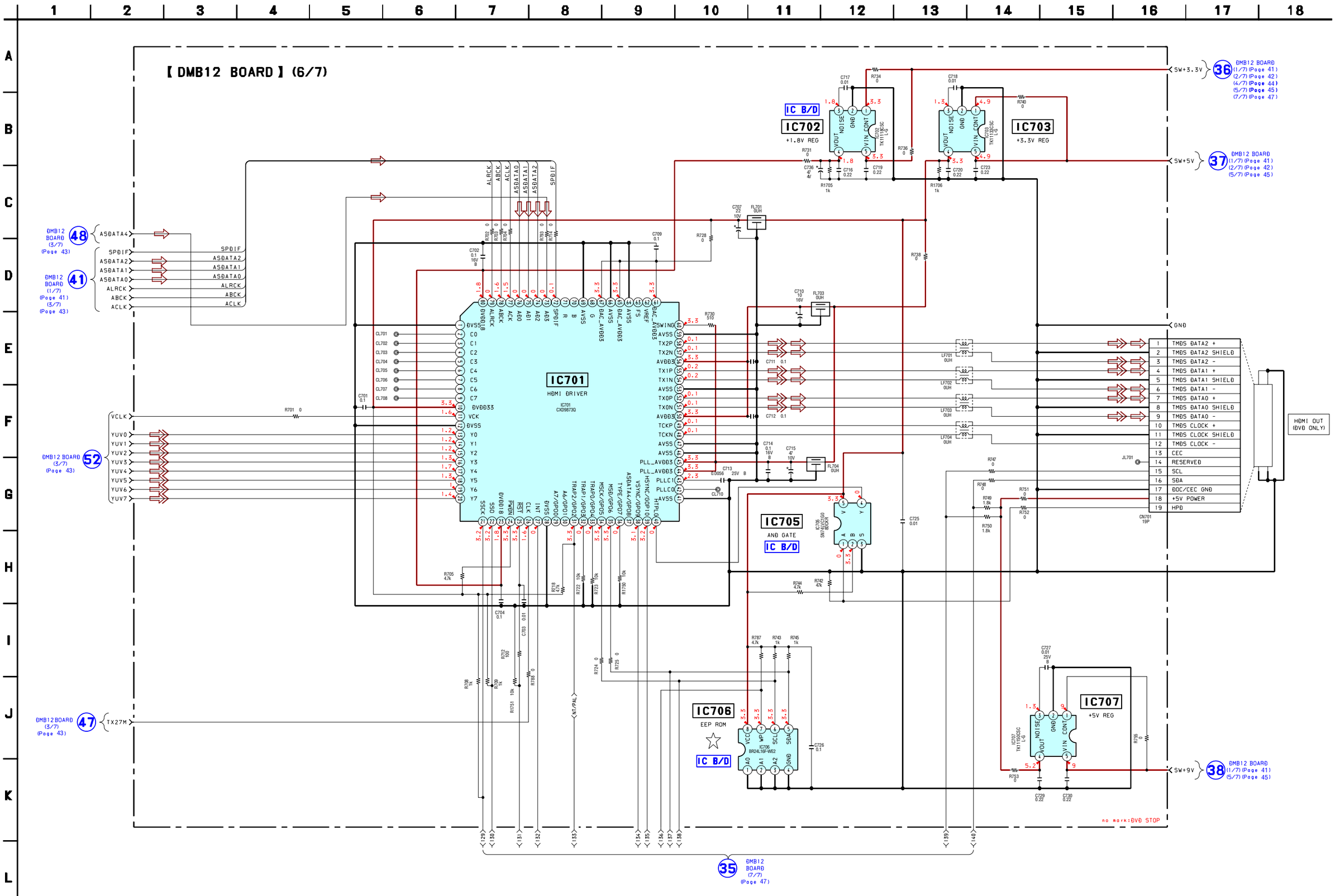
6-12. SCHEMATIC DIAGRAM – DMB12 BOARD (5/7) –



6-13. SCHEMATIC DIAGRAM – DMB12 BOARD (6/7) –

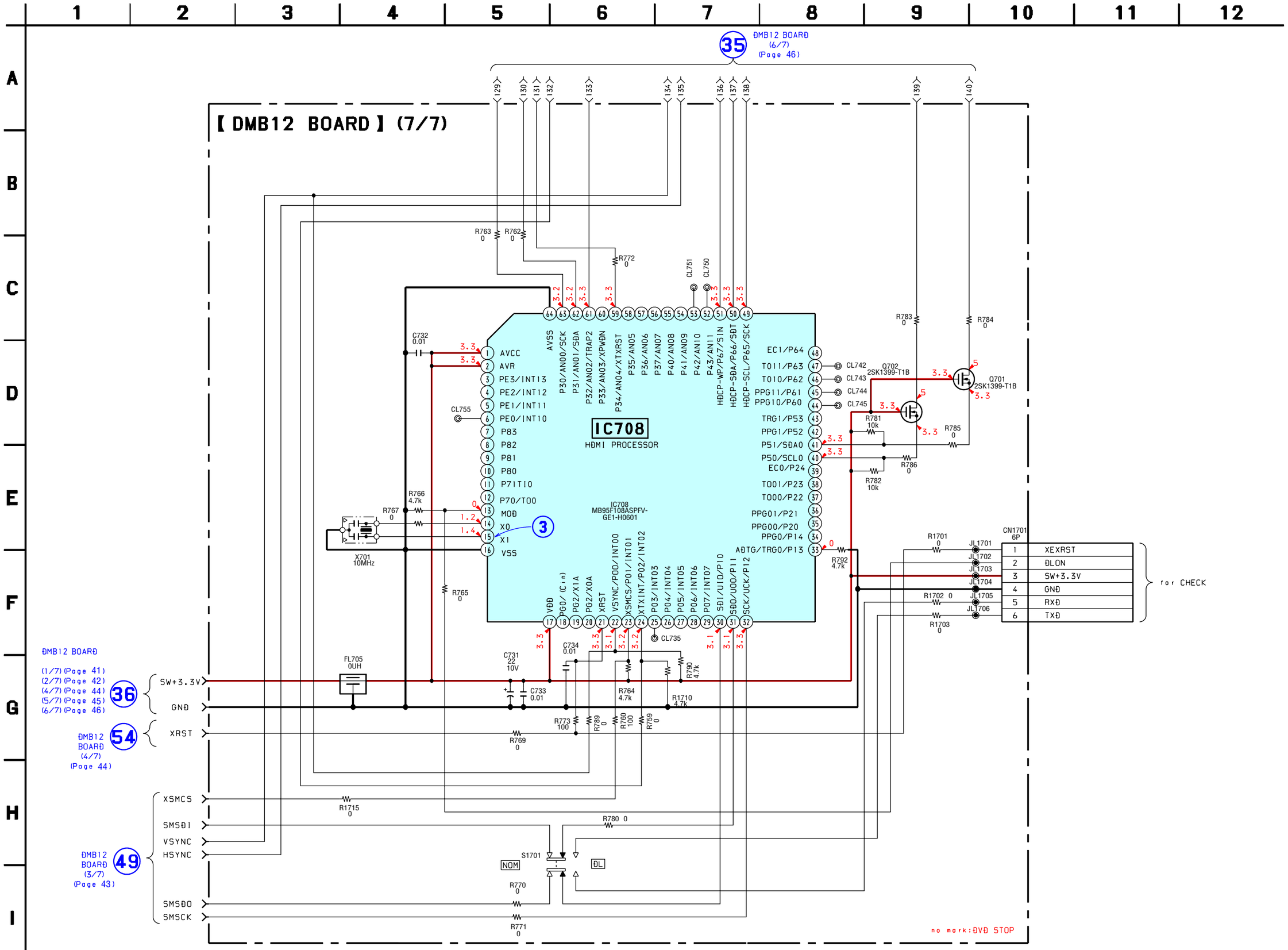
• See page 66, 67 for IC Block Diagrams.

☆ New part of EEP ROM (IC103, IC706) on the DMB12 board cannot be used. Therefore, if the mounted MAIN board (A-1148-813-A, etc.) is replaced, exchange new EEP ROM (IC103, IC706) with that used before the replacement.



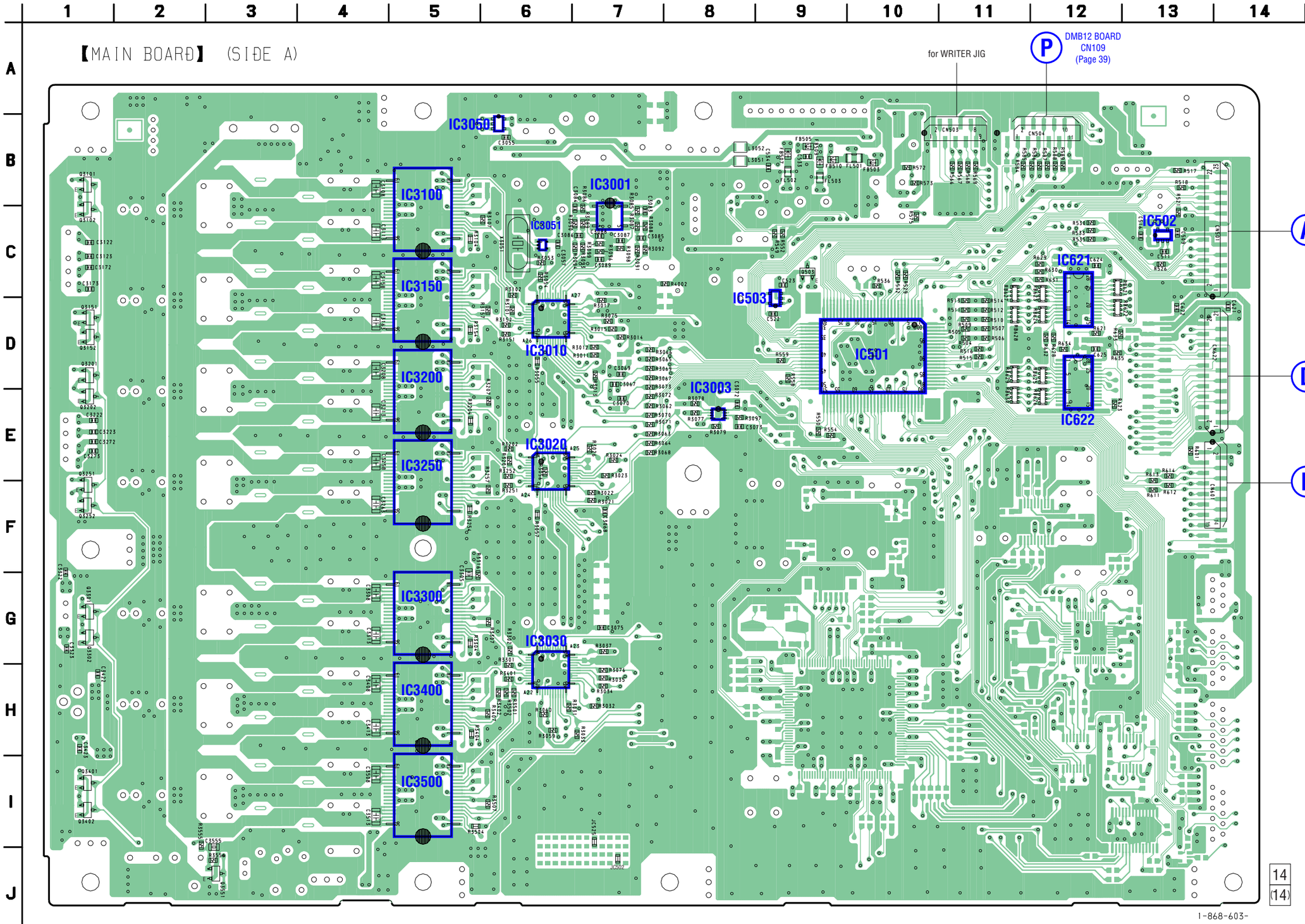
6-14. SCHEMATIC DIAGRAM – DMB12 BOARD (7/7) –

• See page 65 for Waveform.



6-15. PRINTED WIRING BOARD – MAIN BOARD (SIDE A) –

• See page 33 for Circuit Boards Location. :Uses unleaded solder.



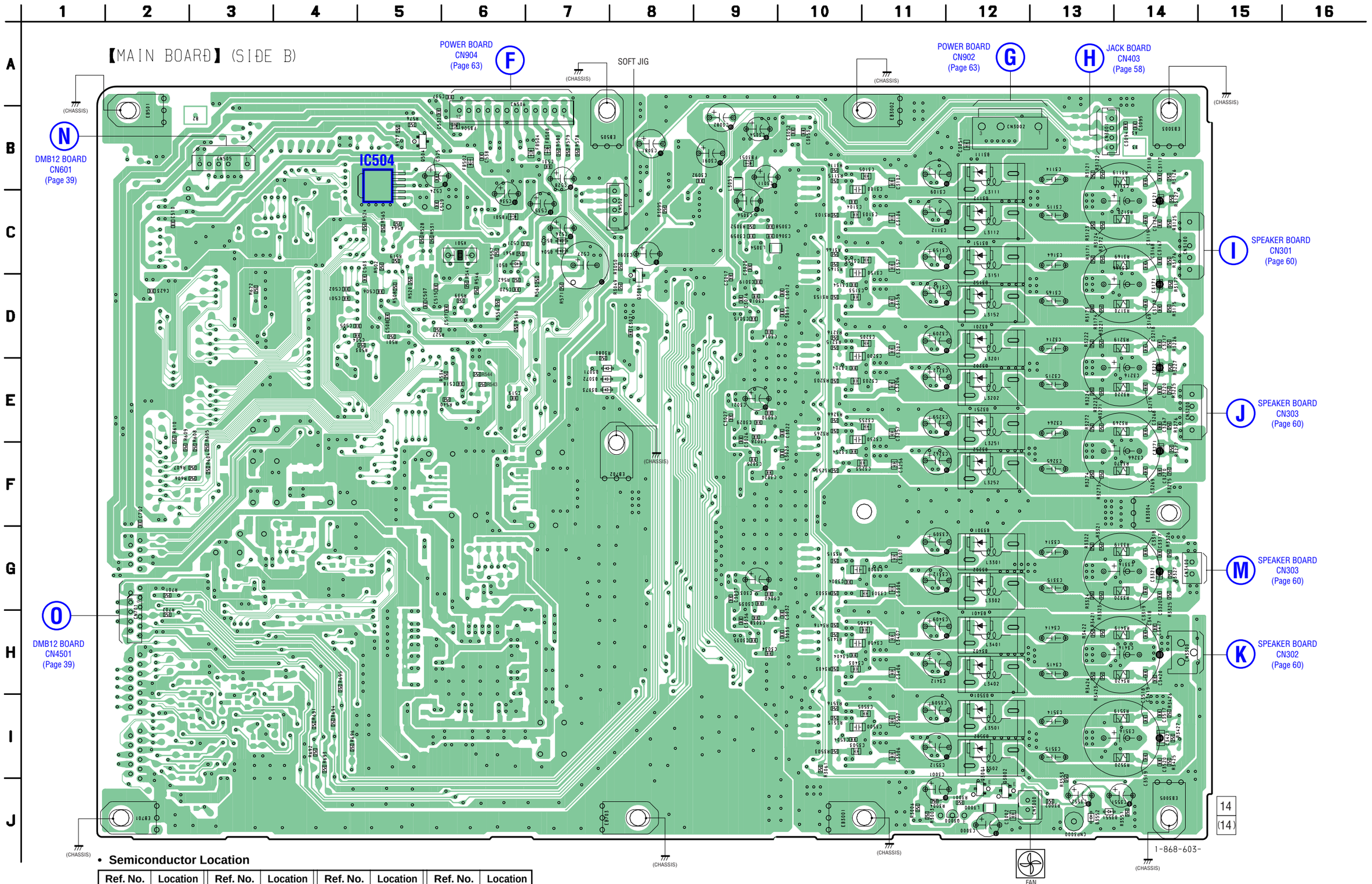
- **Semiconductor Location**

Ref. No.	Location
IC501	D-10
IC502	C-13
IC503	D-9
IC621	C-12
IC622	E-12
IC3001	C-7
IC3003	E-8
IC3010	D-6
IC3020	E-6
IC3030	G-6
IC3050	B-6
IC3051	C-6
IC3100	B-5
IC3150	C-5
IC3200	D-5
IC3250	E-5
IC3300	G-5
IC3400	H-5
IC3500	I-5
Q503	C-9
Q3101	B-1
Q3102	C-1
Q3151	D-1
Q3152	D-1
Q3201	D-1
Q3202	E-1
Q3251	F-1
Q3252	F-1
Q3301	G-1
Q3302	G-1
Q3401	I-1
Q3402	I-1
Q3551	J-3

6-16. PRINTED WIRING BOARD – MAIN BOARD (SIDE B) –

• See page 33 for Circuit Boards Location.

:Uses unleaded solder.

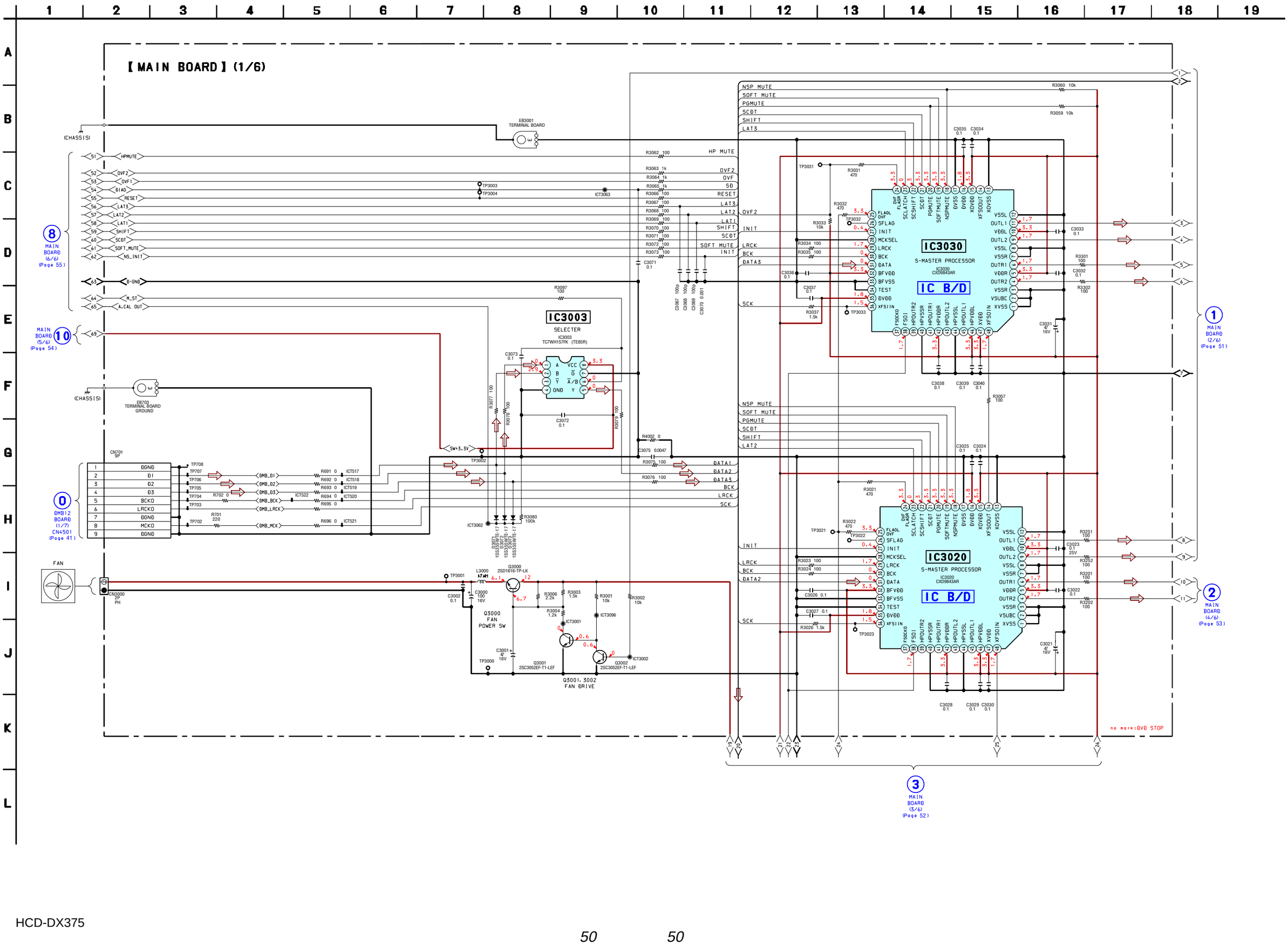


• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D501	C-6	D3151	C-12	D3401	H-12	Q504	B-5
D502	C-7	D3152	D-12	D3402	H-12	Q3000	J-12
D504	C-7	D3201	D-12	D3501	I-12	Q3001	J-12
D3071	E-7	D3202	E-12	D3502	I-12	Q3002	J-12
D3072	E-7	D3251	E-12	D3551	J-13	Q3081	D-8
D3073	E-7	D3252	F-12	D3552	J-13		
D3111	B-12	D3301	G-12				
D3112	C-12	D3302	G-12	IC504	B-5		

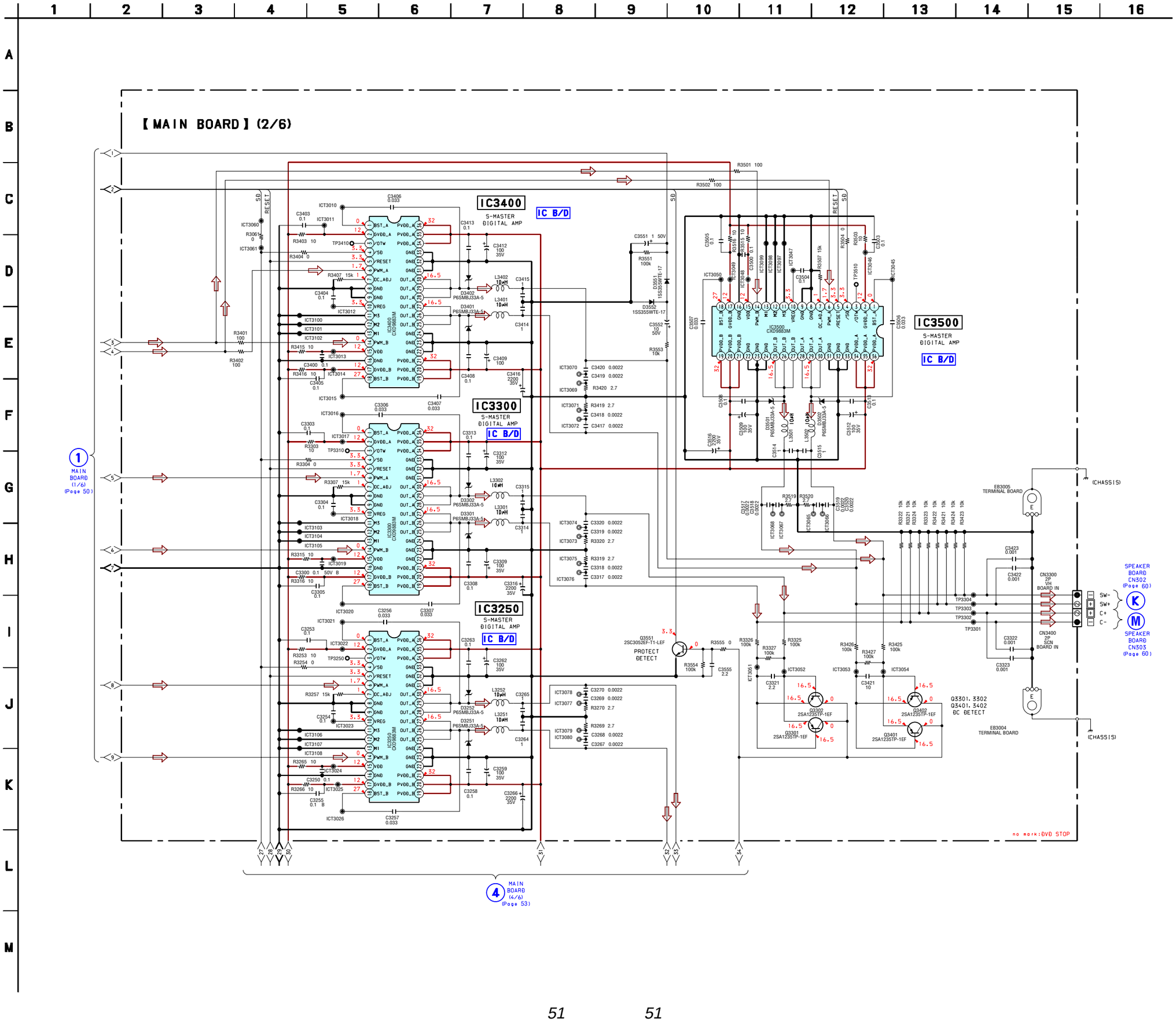
6-17. SCHEMATIC DIAGRAM – MAIN BOARD (1/6) –

• See page 68 for IC Block Diagrams.



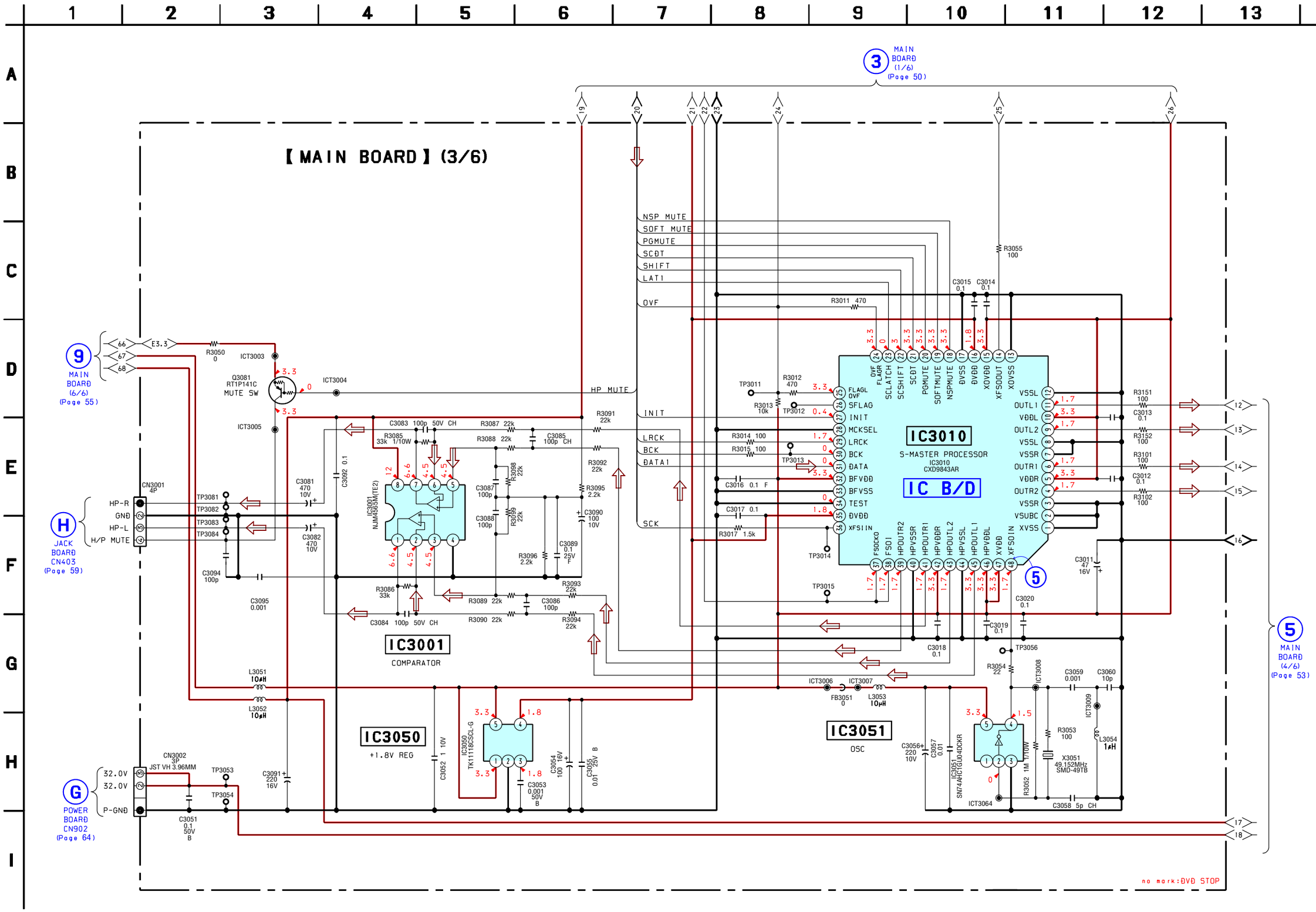
6-18. SCHEMATIC DIAGRAM – MAIN BOARD (2/6) –

• See page 68 for IC Block Diagrams.



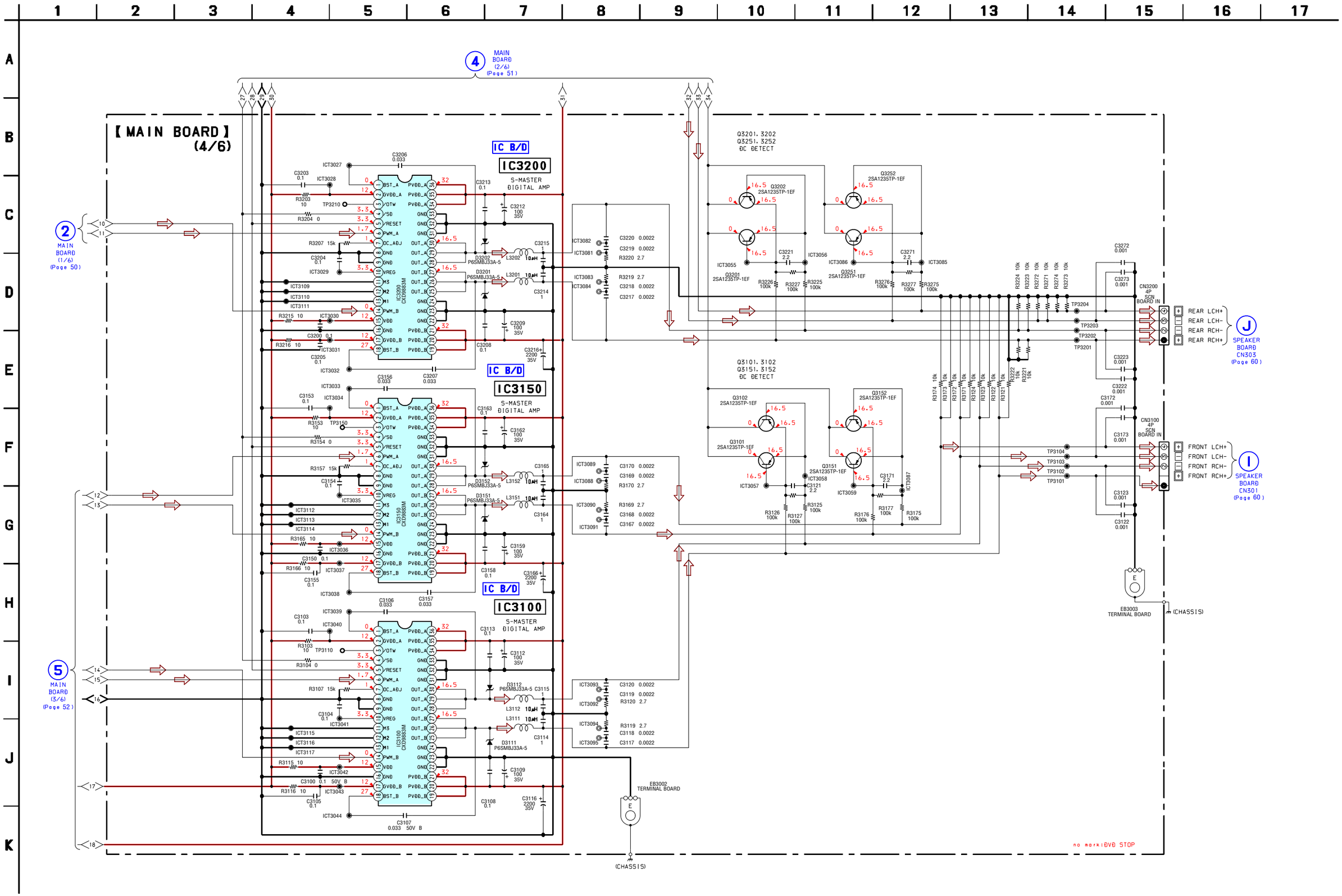
6-19. SCHEMATIC DIAGRAM – MAIN BOARD (3/6) –

• See page 65 for Waveform. • See page 68 for IC Block Diagrams.



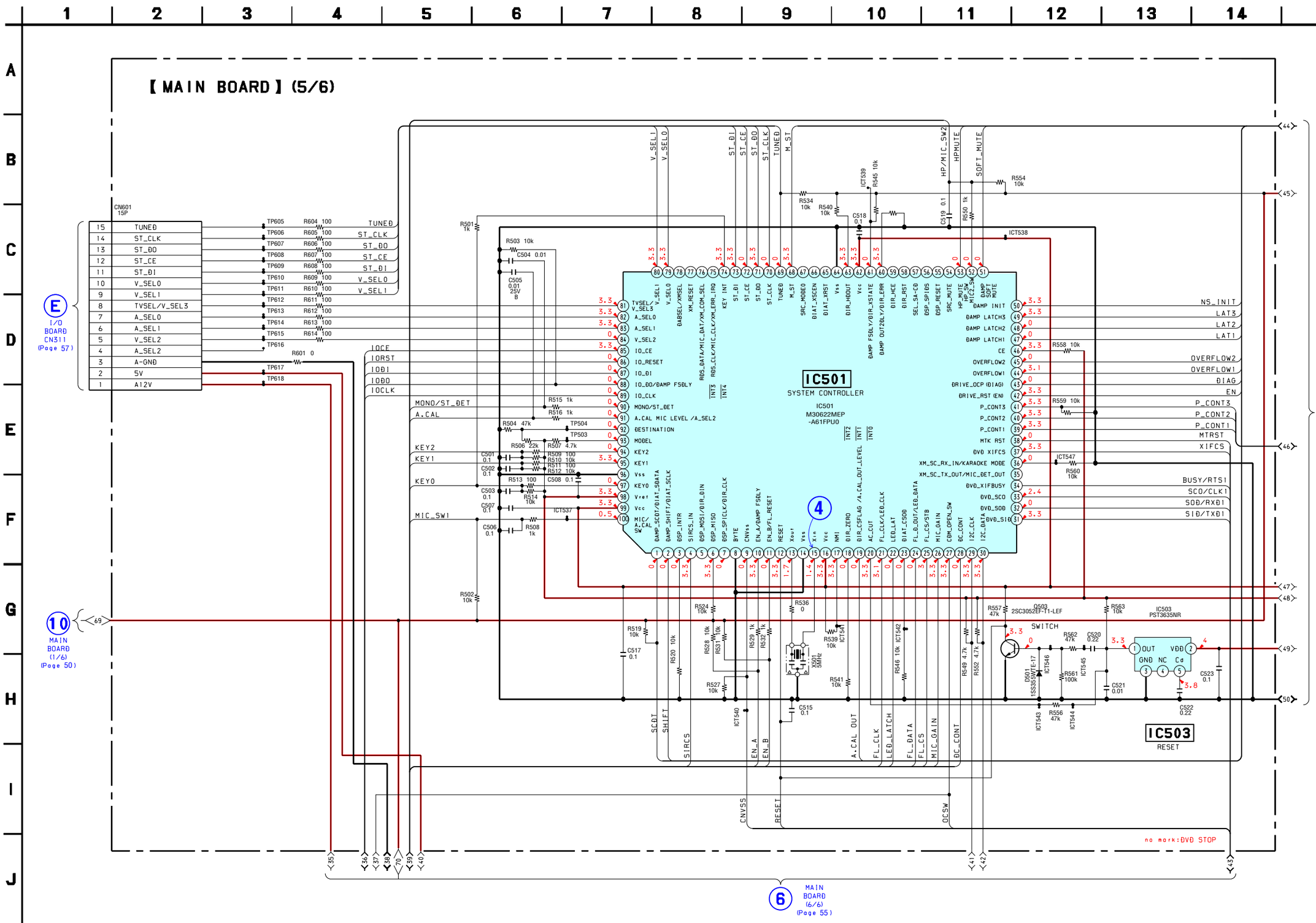
6-20. SCHEMATIC DIAGRAM – MAIN BOARD (4/6) –

• See page 68 for IC Block Diagrams.

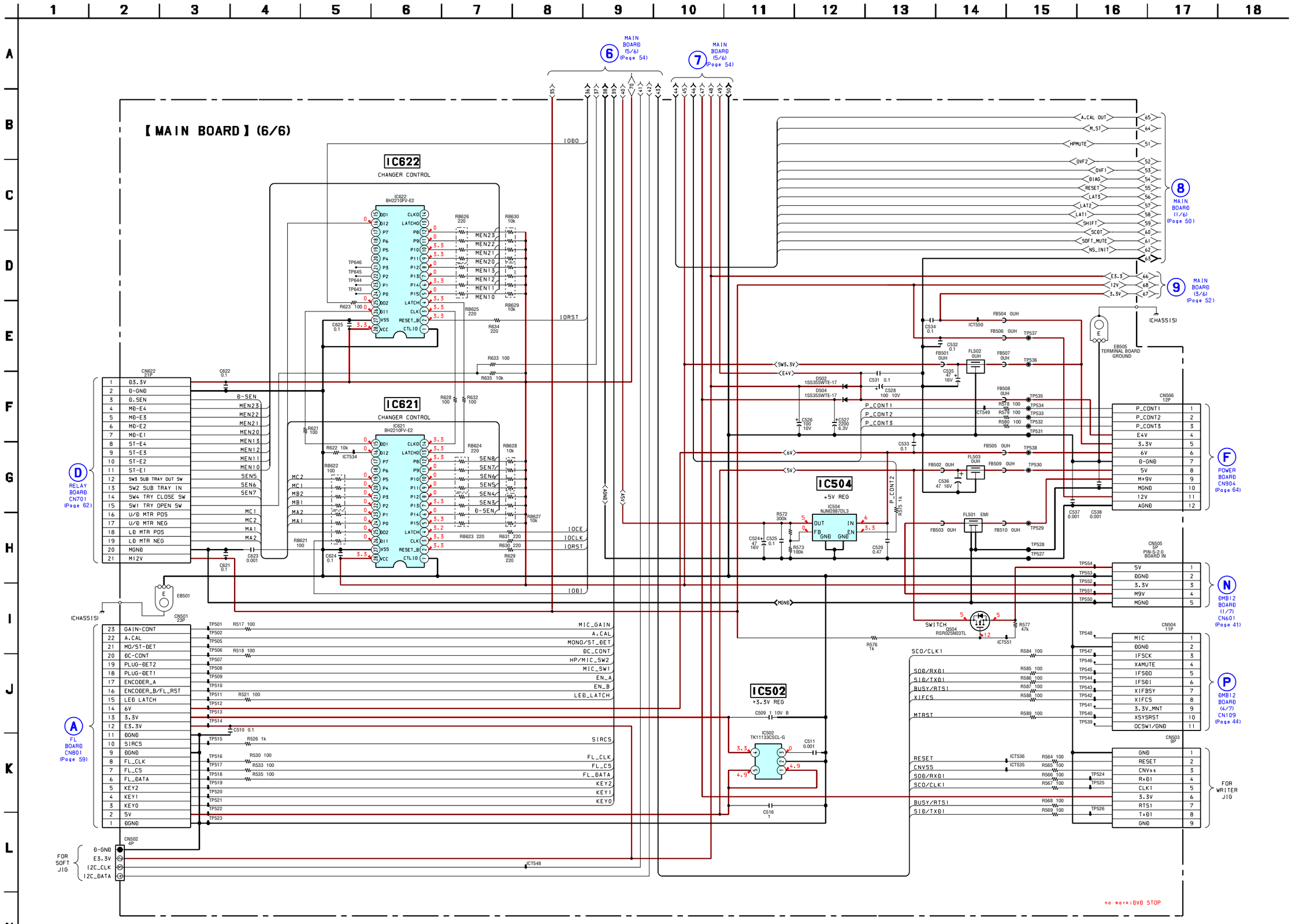


6-21. SCHEMATIC DIAGRAM – MAIN BOARD (5/6) –

• See page 65 for Waveform. • See page 70 for IC Pin Function Description.



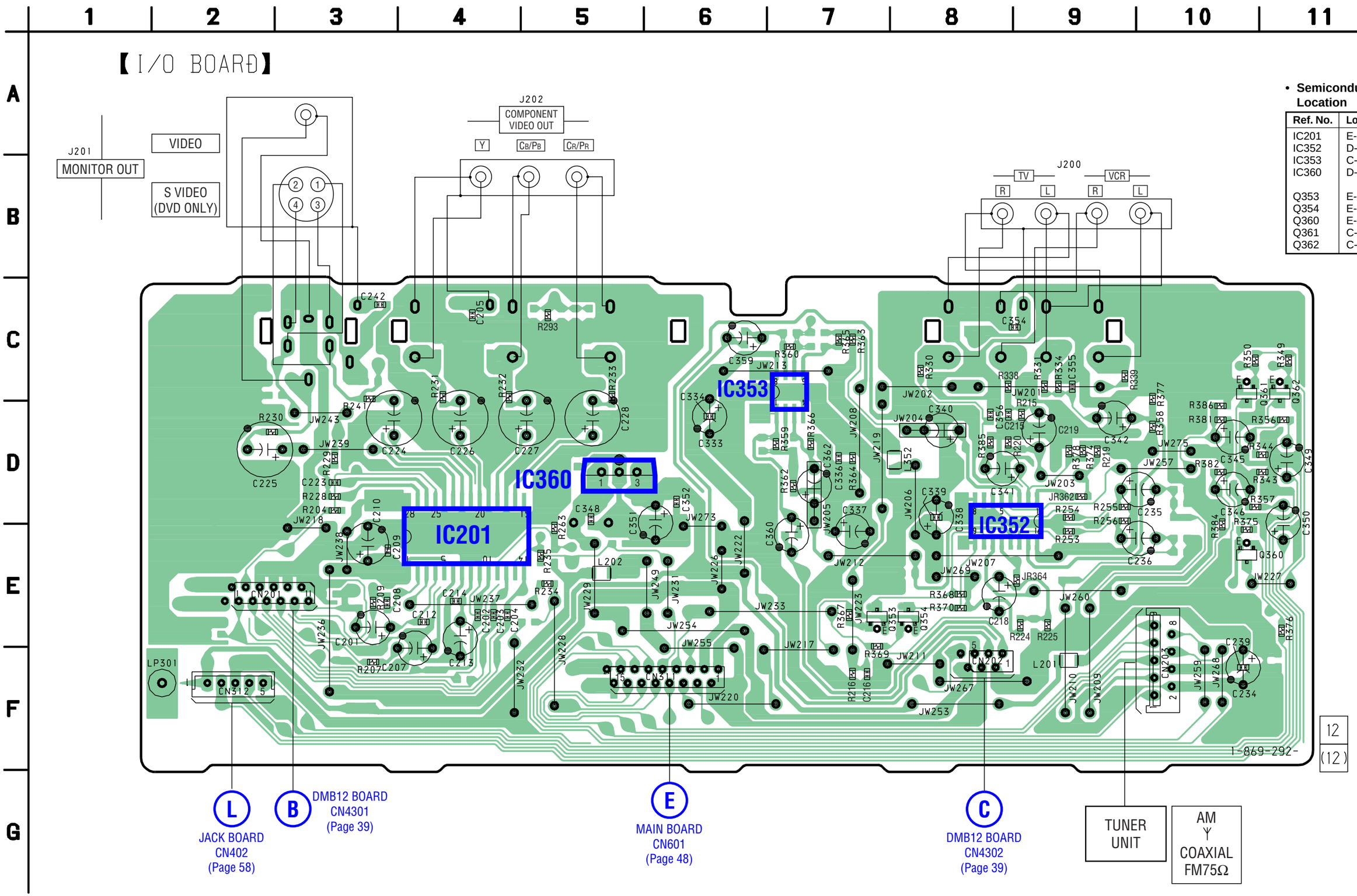
6-22. SCHEMATIC DIAGRAM – MAIN BOARD (6/6) –



6-23. PRINTED WIRING BOARD – I/O BOARD –

• See page 33 for Circuit Boards Location. :Uses unleaded solder.

【I/O BOARD】

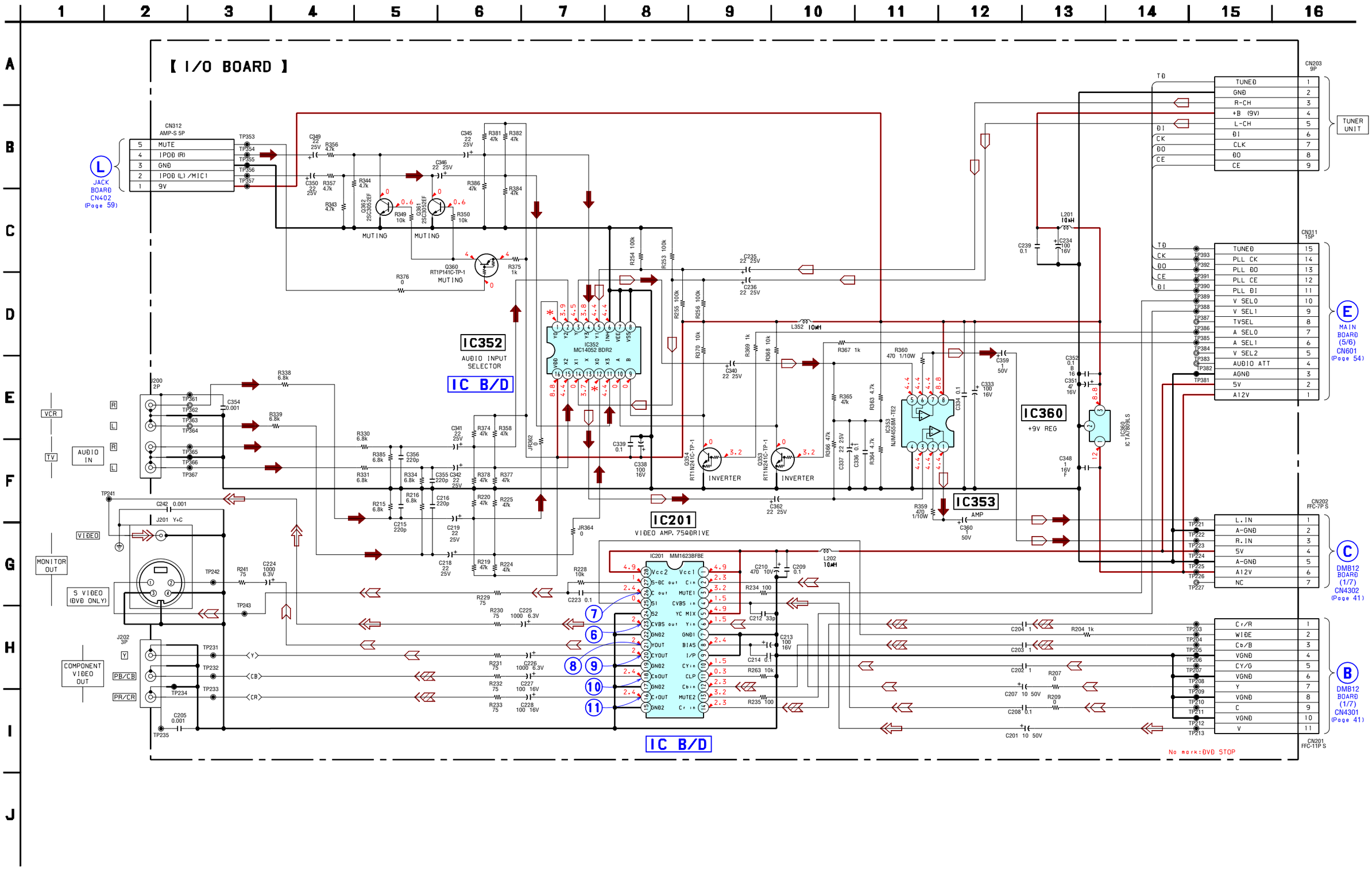


- **Semiconductor Location**

Ref. No.	Location
IC201	E-4
IC352	D-8
IC353	C-7
IC360	D-5
Q353	E-7
Q354	E-8
Q360	E-10
Q361	C-10
Q362	C-11

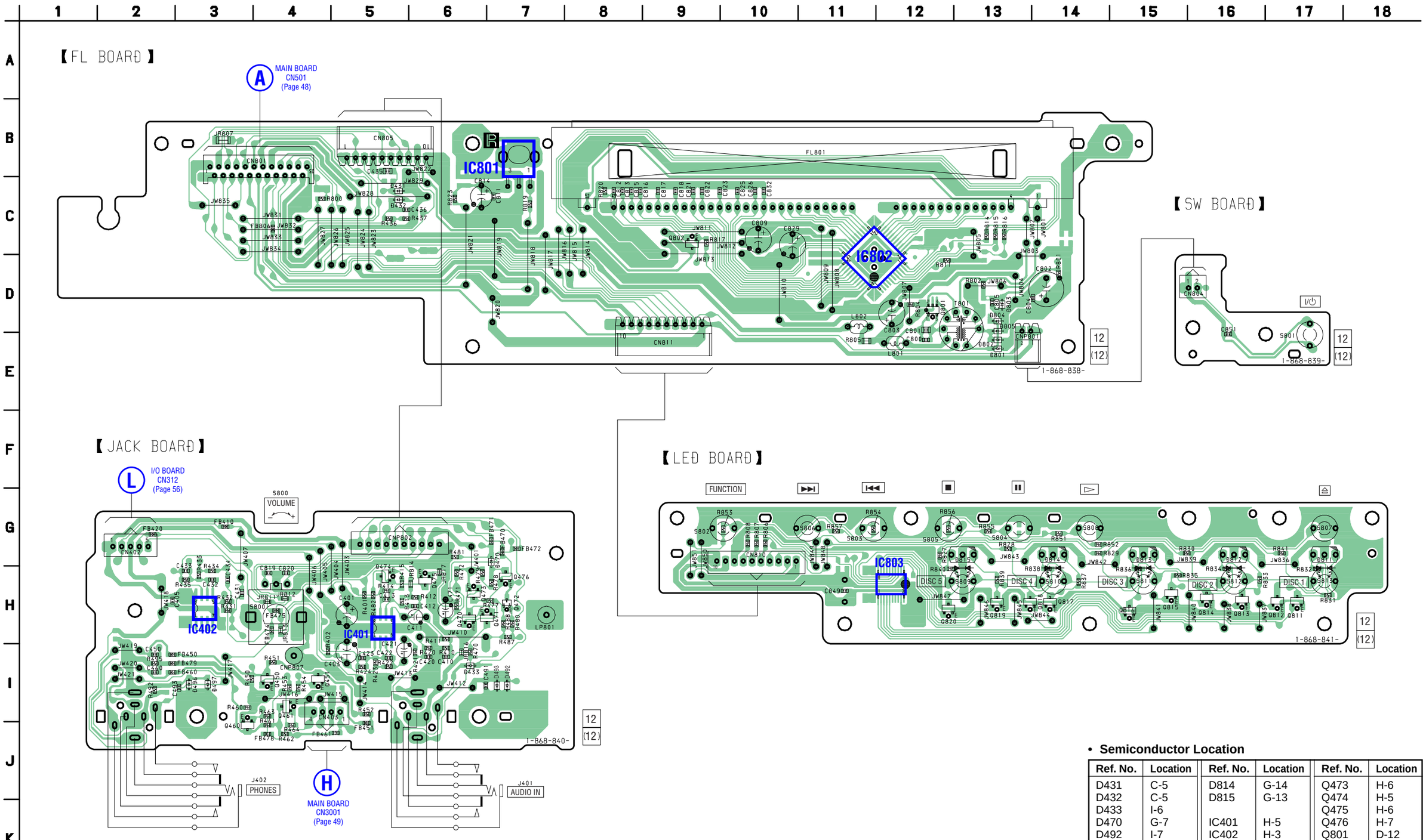
6-24. SCHEMATIC DIAGRAM – I/O BOARD –

• See page 65 for Waveforms. • See page 69 for IC Block Diagrams.



6-25. PRINTED WIRING BOARDS – PANEL SECTION –

• See page 33 for Circuit Boards Location. :Uses unleaded solder.

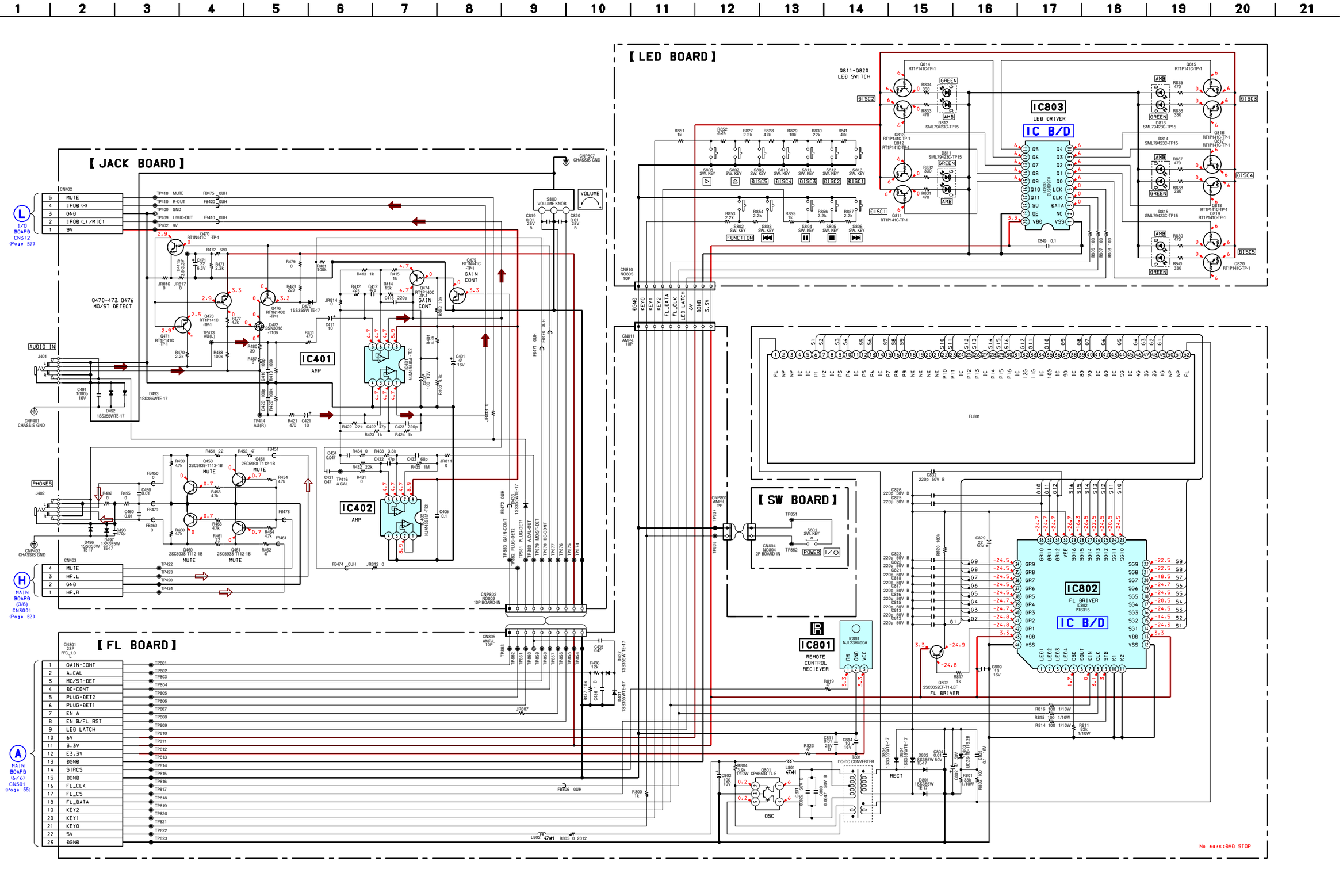


- **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D431	C-5	D814	G-14	Q473	H-6
D432	C-5	D815	G-13	Q474	H-5
D433	I-6			Q475	H-6
D470	G-7	IC401	H-5	Q476	H-7
D492	I-7	IC402	H-3	Q801	D-12
D493	I-7	IC801	B-7	Q802	C-9
D496	I-3	IC802	D-11	Q811	H-17
D497	I-3	IC803	H-12	Q812	H-17
D801	E-13			Q813	H-16
D802	E-13	Q450	I-4	Q814	H-16
D803	D-13	Q451	I-4	Q815	H-15
D804	D-13	Q460	I-3	Q816	H-15
D805	D-13	Q461	I-4	Q817	H-14
D811	G-17	Q470	H-6	Q818	H-13
D812	G-16	Q471	H-6	Q819	H-13
D813	G-15	Q472	H-7	Q820	H-12

6-26. SCHEMATIC DIAGRAM – PANEL SECTION –

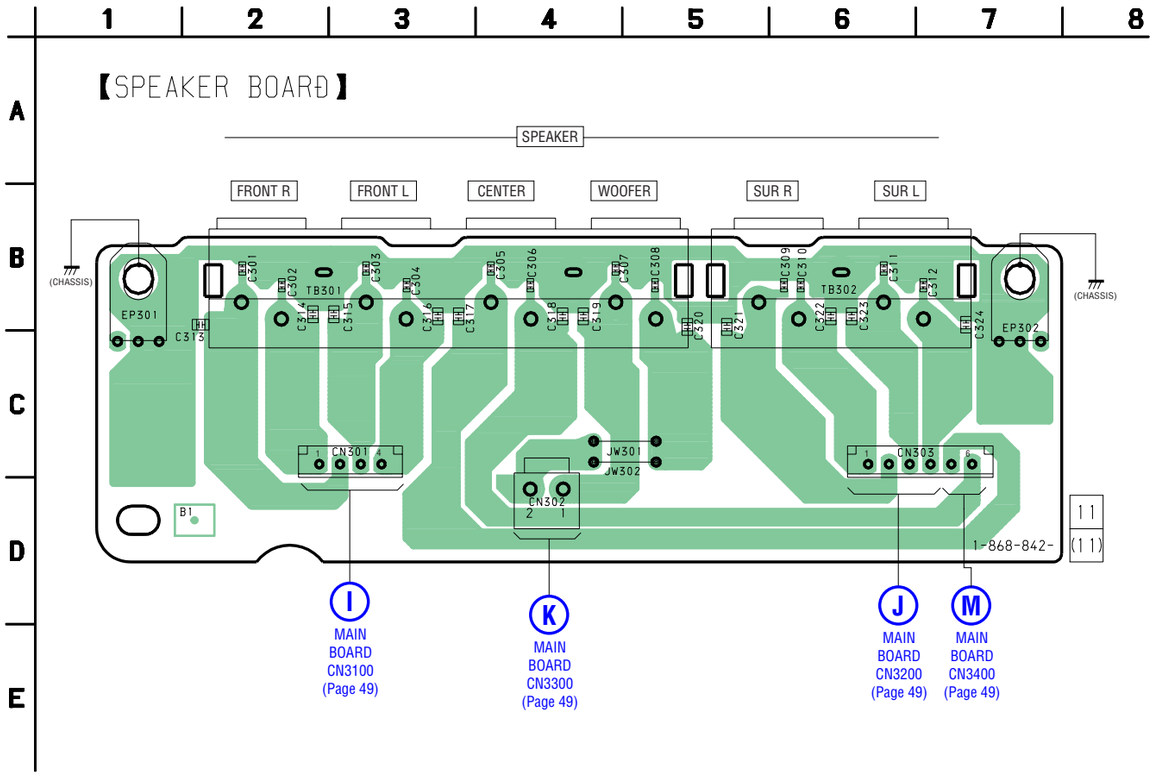
• See page 67, 69 for IC Block Diagrams.



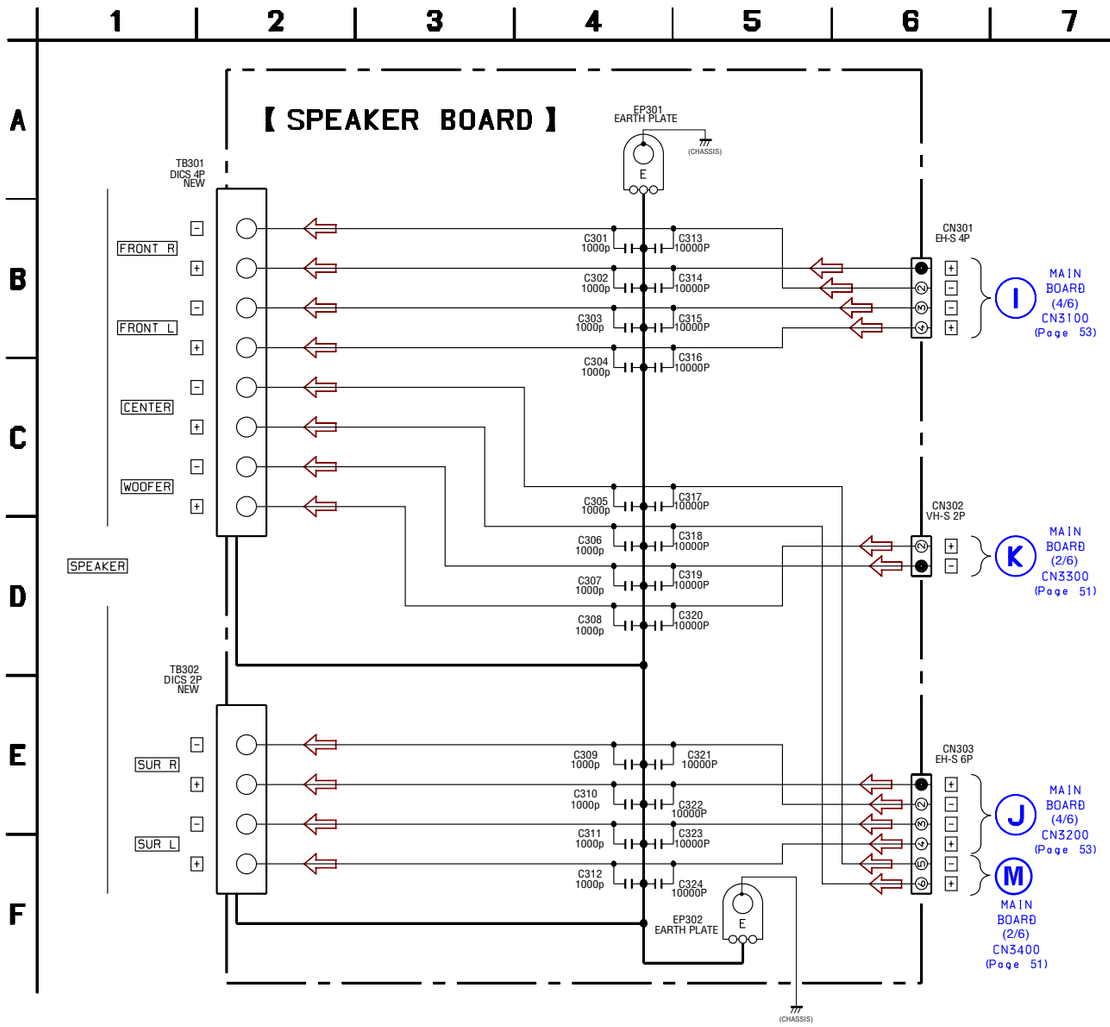
6-27. PRINTED WIRING BOARD – SPEAKER BOARD –

• See page 33 for Circuit Boards Location.

:Uses unleaded solder.



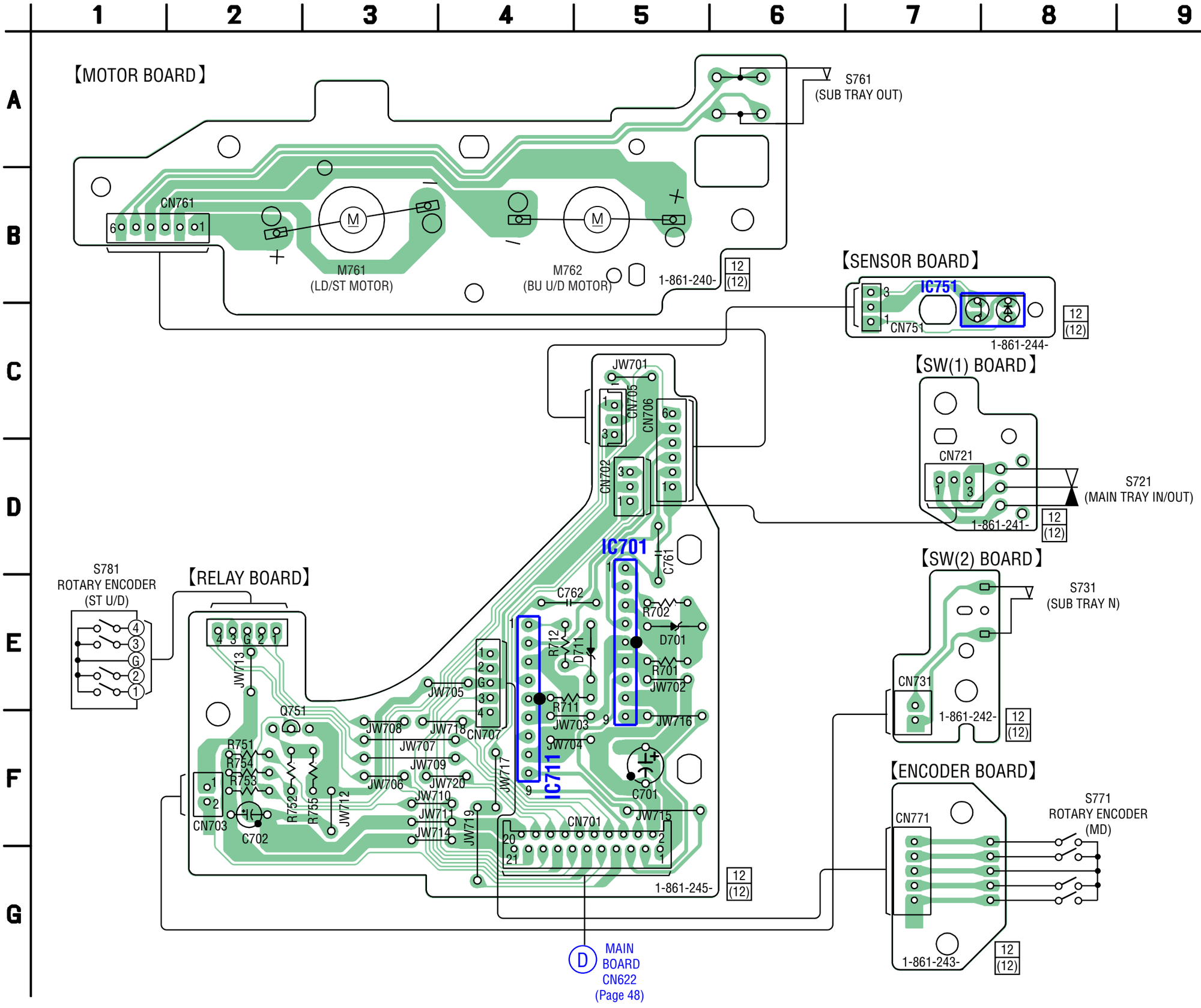
6-28. SCHEMATIC DIAGRAM – SPEAKER BOARD –



6-29. PRINTED WIRING BOARDS – CD MECHANISM SECTION –

• See page 33 for Circuit Boards Location.

:Uses unleaded solder.

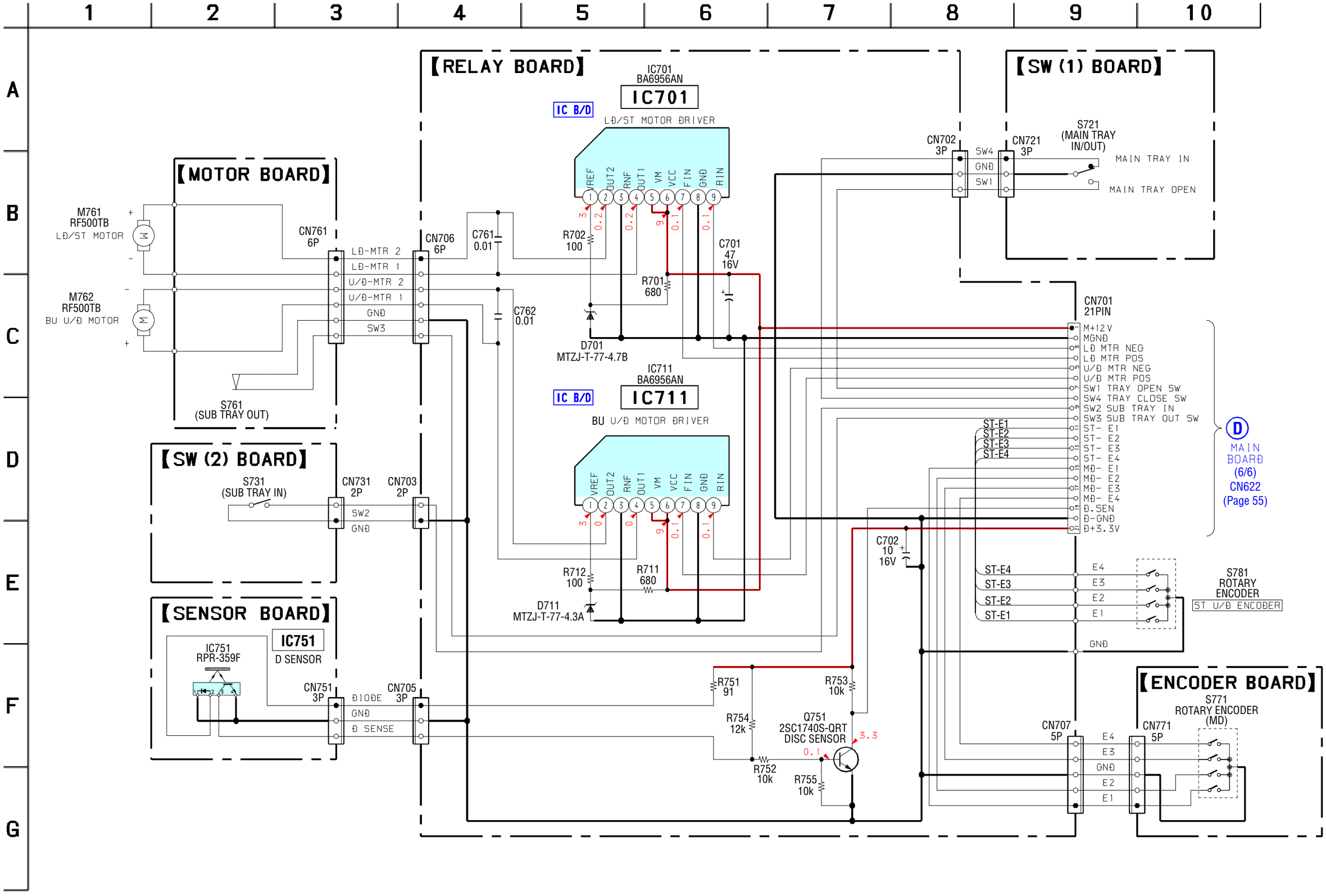


- **Semiconductor Location**

Ref. No.	Location
D701	D-4
D711	D-4
IC701	D-4
IC711	E-3
IC751	B-6
Q751	D-2

6-30. SCHEMATIC DIAGRAM – CD MECHANISM SECTION –

• See page 69 for IC Block Diagrams.

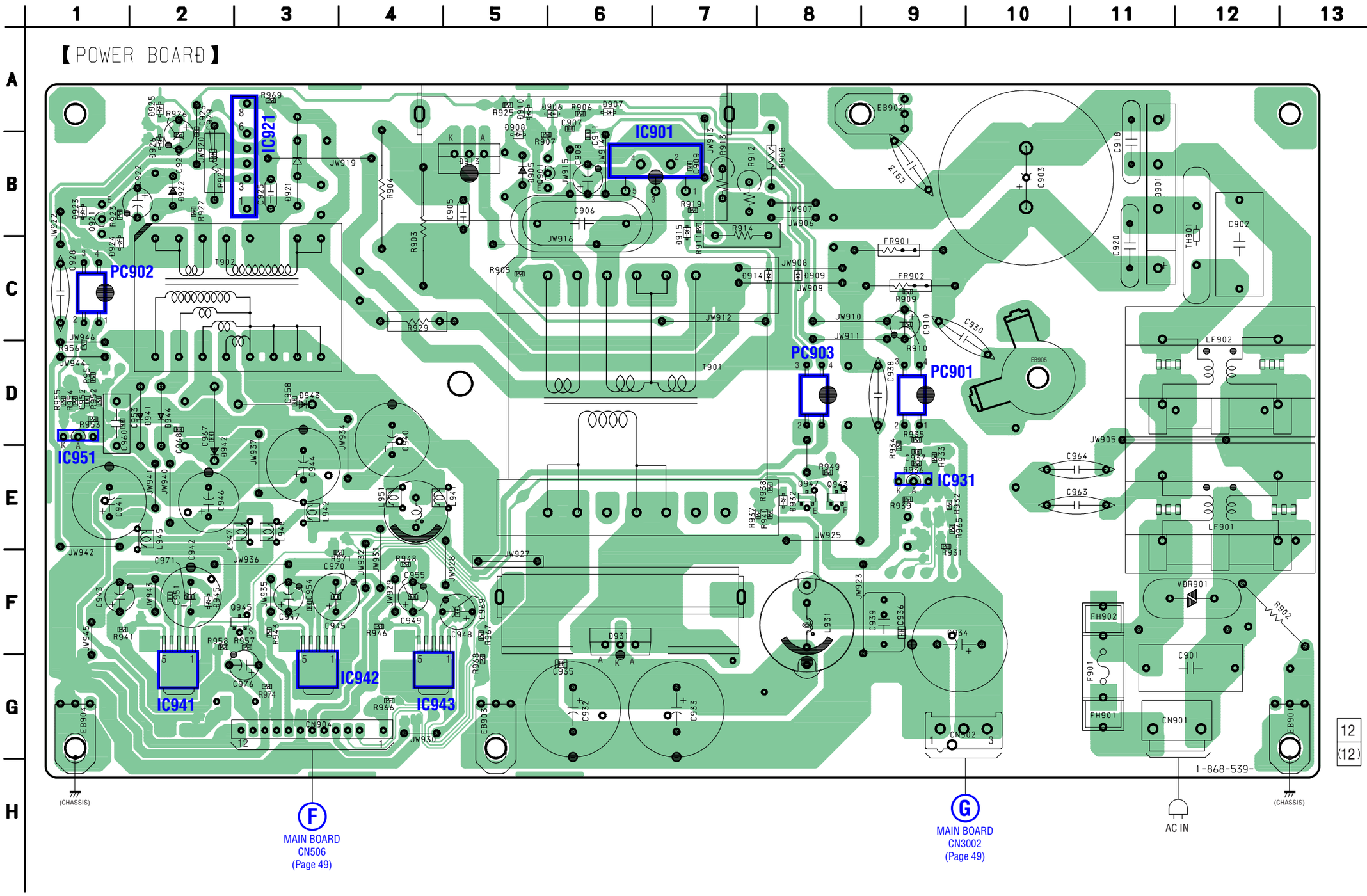


6-31. PRINTED WIRING BOARD – POWER BOARD –

• See page 33 for Circuit Boards Location.

:Uses unleaded solder.

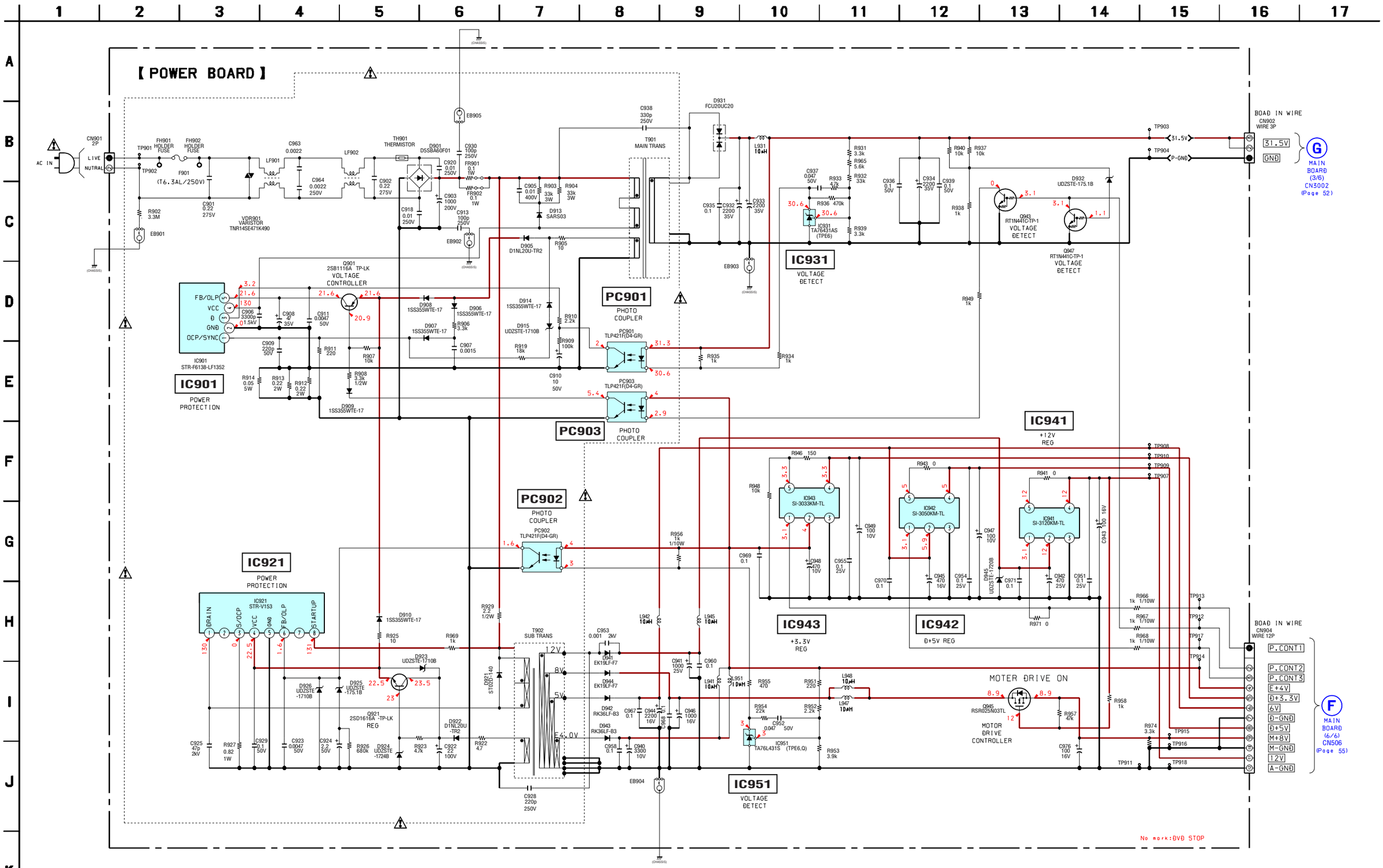
【POWER BOARD】



- **Semiconductor Location**

Ref. No.	Location
D901	B-11
D905	B-5
D906	A-6
D907	A-7
D908	B-5
D909	C-8
D910	A-5
D913	B-5
D914	C-8
D915	B-7
D921	B-3
D922	B-2
D923	B-1
D924	C-1
D925	A-1
D926	B-2
D931	F-6
D932	E-8
D941	D-2
D942	E-2
D943	D-3
D944	D-2
D945	F-2
IC901	B-6
IC921	B-3
IC931	E-9
IC941	G-2
IC942	G-3
IC943	G-4
IC951	D-1
PC901	D-9
PC902	C-1
PC903	D-8
Q901	B-5
Q921	B-1
Q943	E-8
Q945	F-3
Q947	E-8

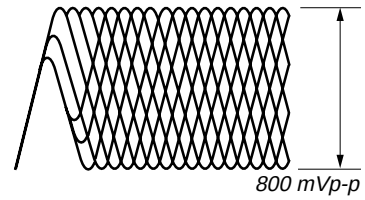
6-32. SCHEMATIC DIAGRAM – POWER BOARD –



• **Waveforms**

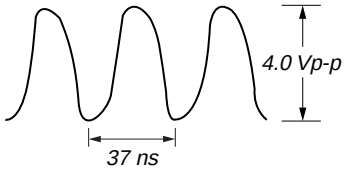
– DMB12 Board –

① IC101 ⑥ (DVDRFIP)



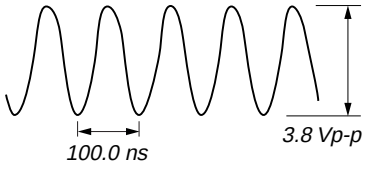
200 mV/DIV, 100 ns/DIV

② IC101 ㉙ (XTALI)



1 V/DIV, 10 ns/DIV

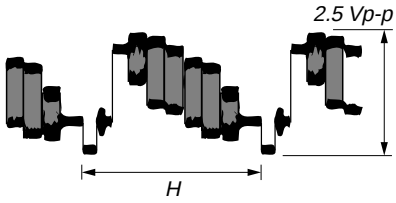
③ IC708 ⑮ (X1)



1 V/DIV, 40 ns/DIV

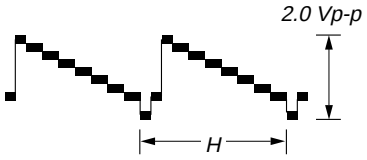
– I/O Board –

⑥ IC201 ㉓ (CVBS)



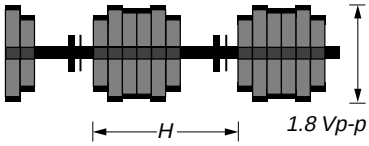
1 V/DIV, 20 µs/DIV

⑨ IC201 ⑳ (CYOUT)



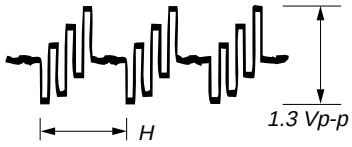
1 V/DIV, 20 µs/DIV

⑦ IC201 ㉖ (COUT)



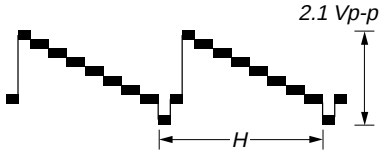
1 V/DIV, 20 µs/DIV

⑩ IC201 ⑱ (CbOUT)



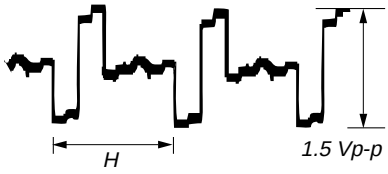
500 mV/DIV, 20 µs/DIV

⑧ IC201 ㉑ (YOUT)



1 V/DIV, 20 µs/DIV

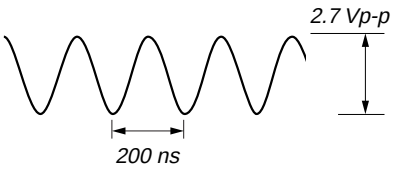
⑪ IC201 ⑯ (CrOUT)



500 mV/DIV, 20 µs/DIV

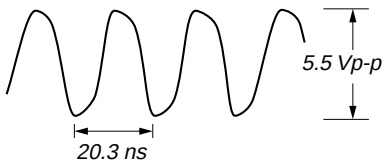
– MAIN Board –

④ IC501 ⑮ (Xin)



1 V/DIV, 100 ns/DIV

⑤ IC3010 ㊽ (XFSOIN)

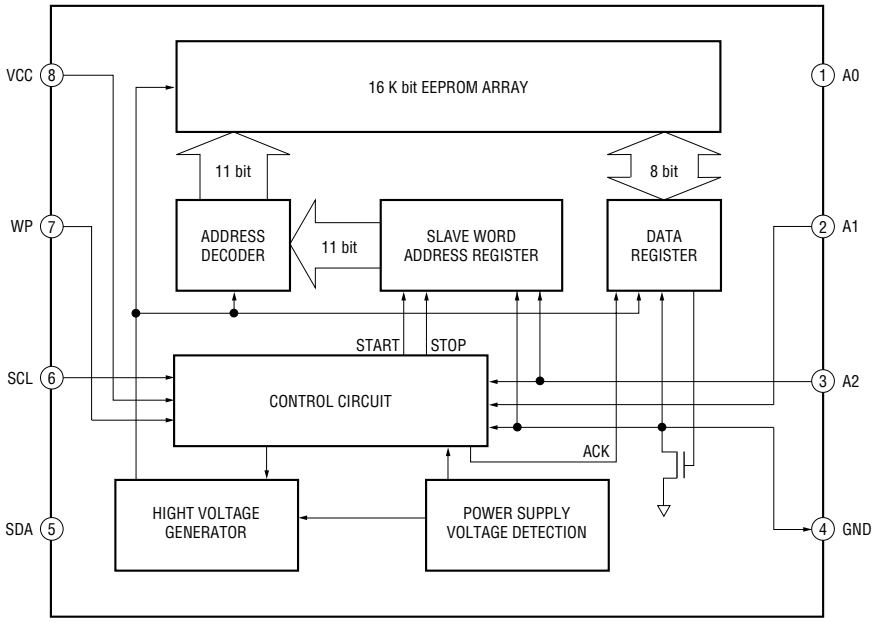


1 V/DIV, 10 ns/DIV

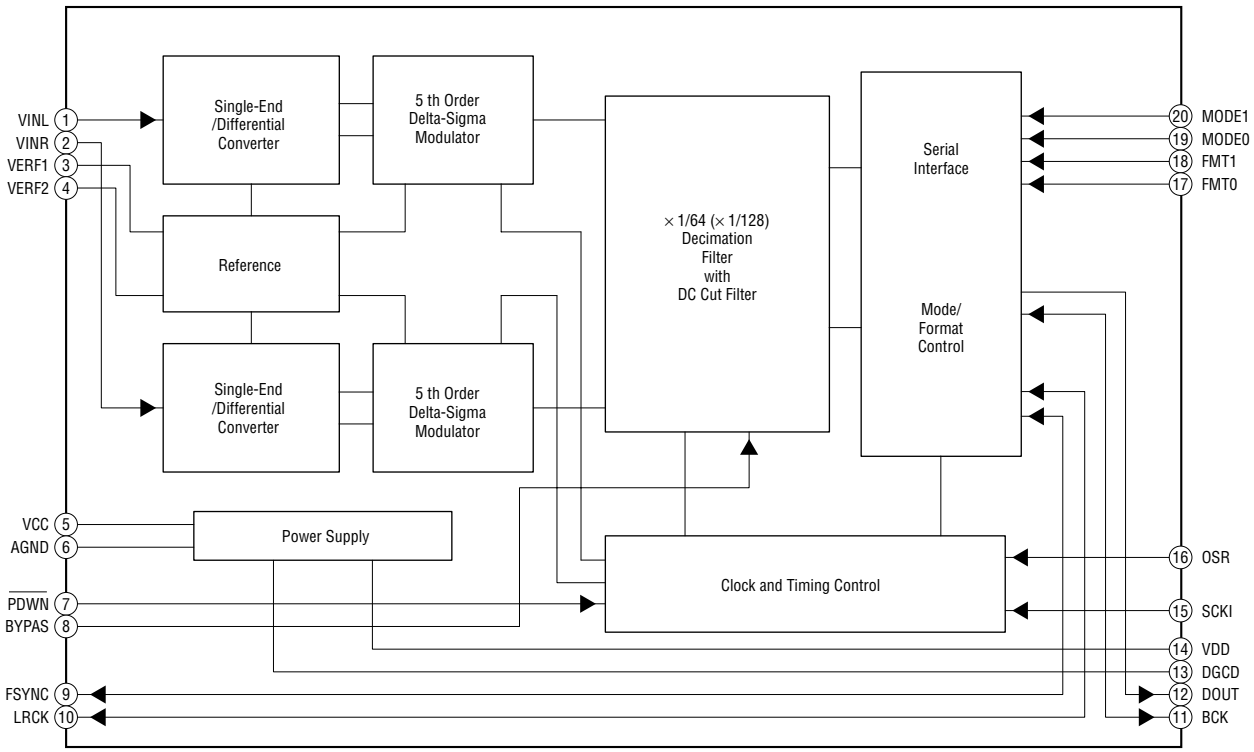
- **IC Block Diagrams**

– DMB12 Board –

IC706 BR24L16F-WE2

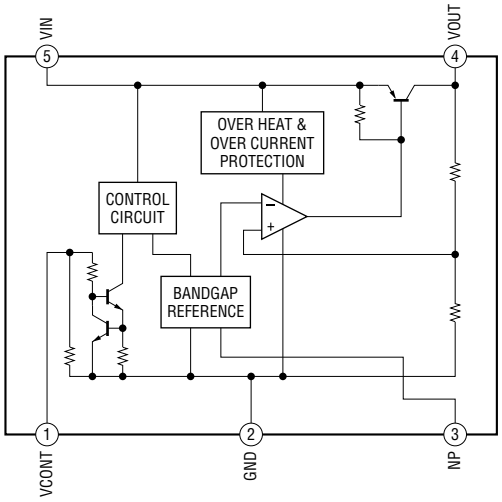


IC4601 PCM1803DBR

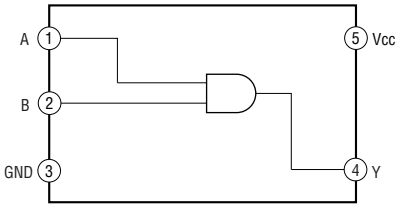


– DMB12 Board –

IC702 TK11118CSCL-G

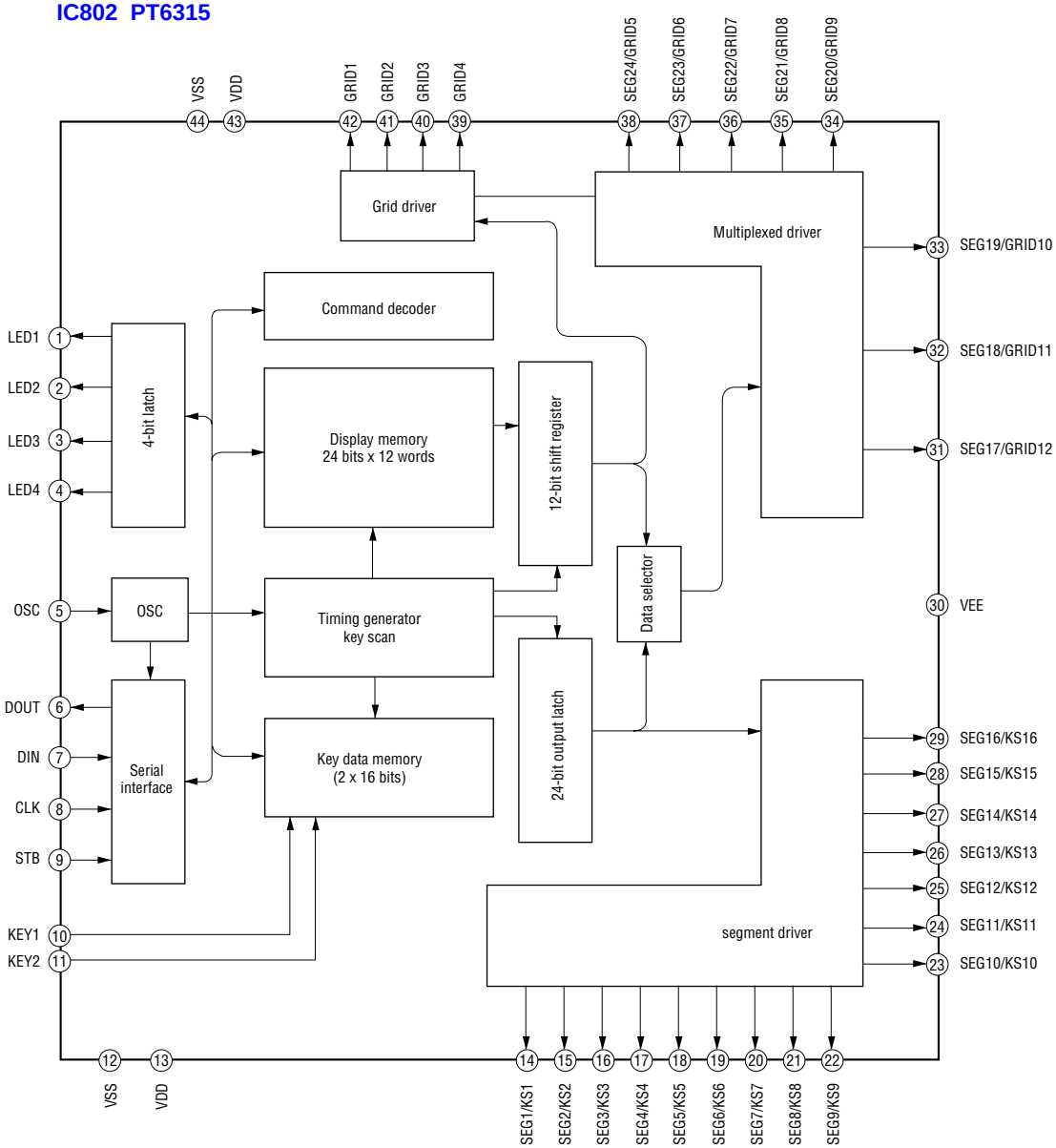


IC150, IC705 SN74LVC1G08DCKR



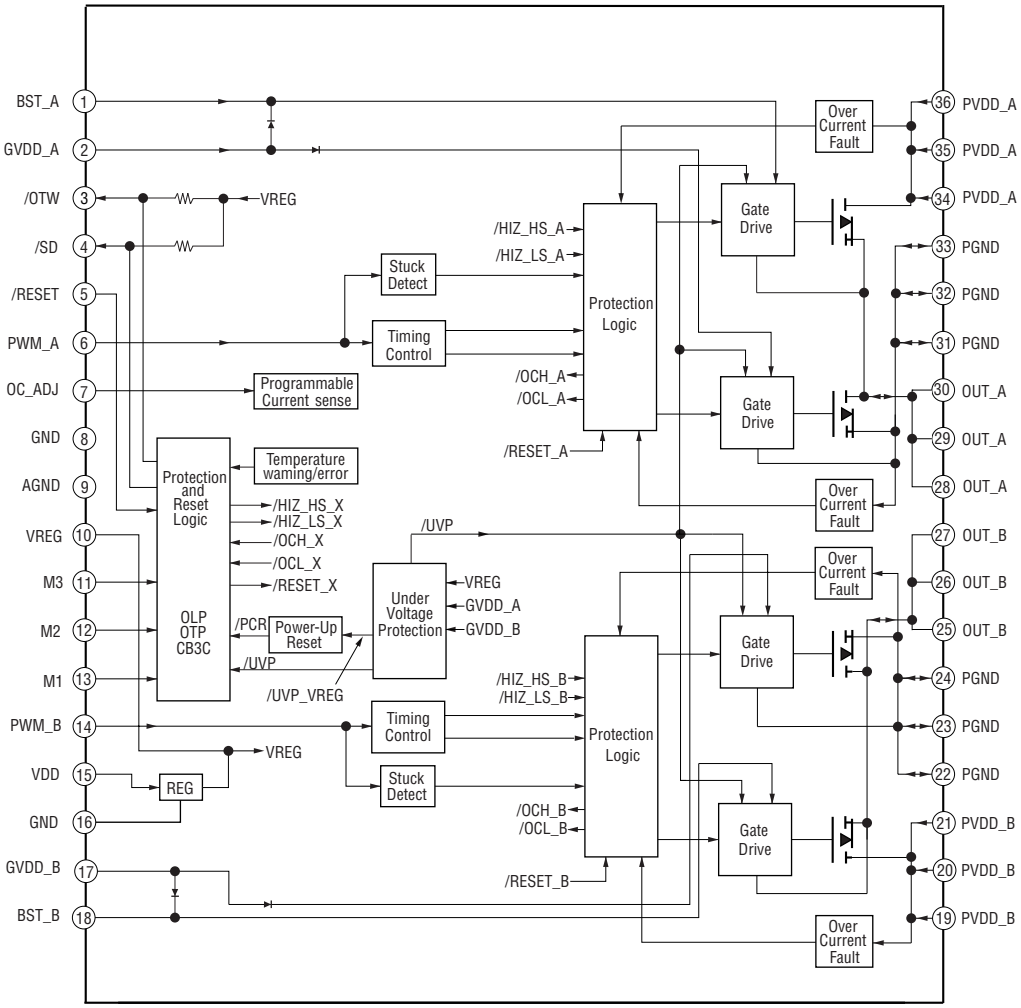
– FL Board –

IC802 PT6315

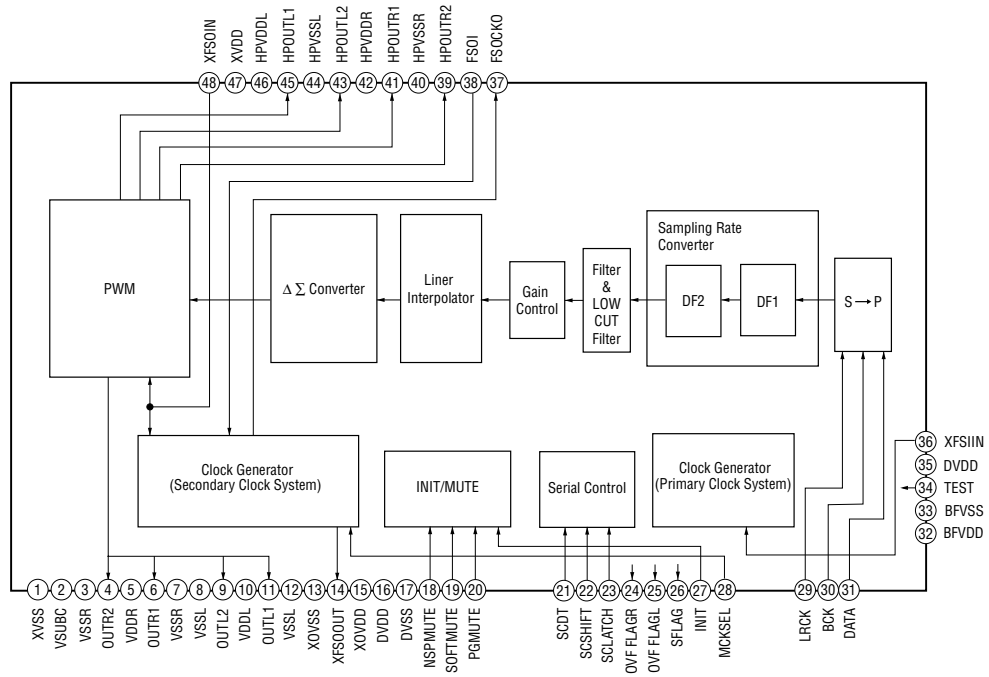


– MAIN Board –

IC3100, IC3150, IC3200, IC3250, IC3300, IC3400, IC3500 CXD9883M

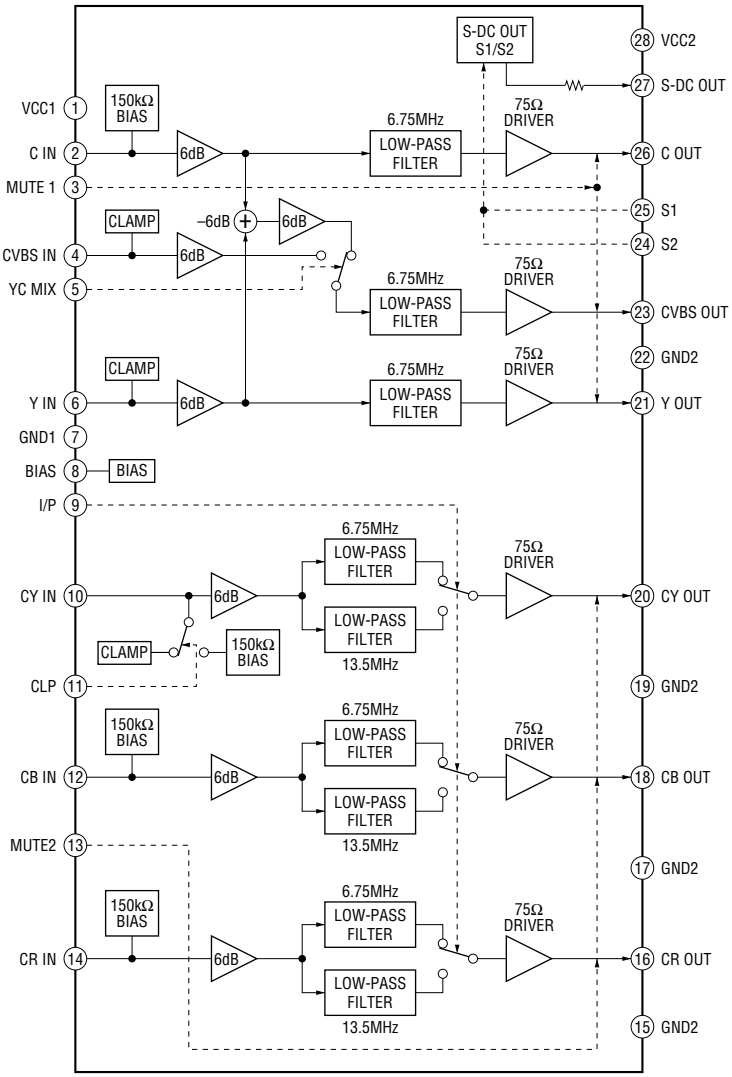


IC3010, IC3020, IC3030 CXD9788AR

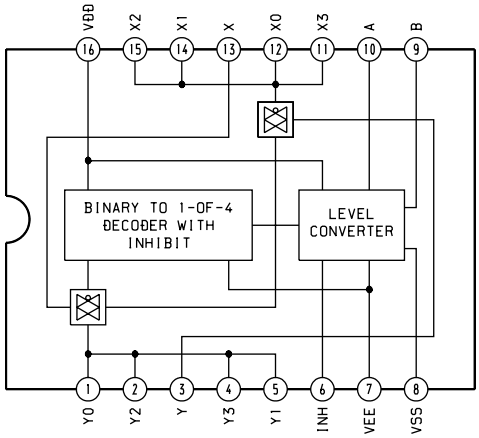


– I/O Board –

IC201 MM1623BFBE

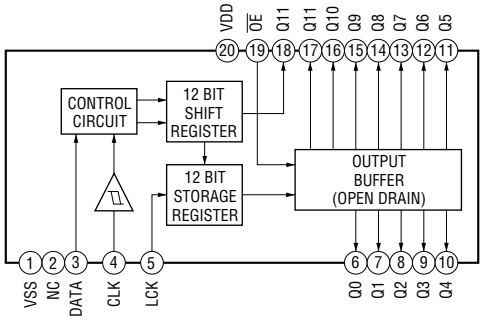


IC352 MC14052BDR2



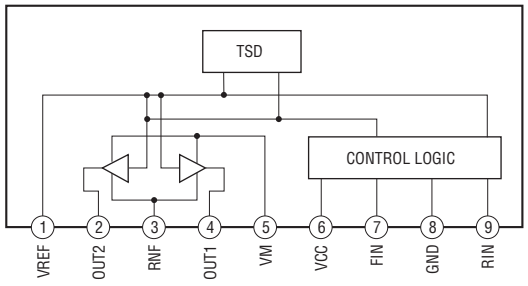
– LED Board –

IC803 BU2099FV



– RELAY Board –

IC701, IC711 BA6956AN



• IC Pin Function Description

MAIN BOARD IC501 M30622MEP-A61FPU0 (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	DAMP_SCDT/ DIAT_SDATA	O	DAMP processor and Diat data output
2	DAMP_SHIFT/ DIAT_SCLK	O	DAMP processor and Diat clock output
3	DSP_INTR	I	DSP interrupt (not used)
4	SIRCS_IN	I	Sircs input
5	DSP_MOSI/DIR_DIN	O	DSP and DIR data output (not used)
6	DSP_MISO	I	DSP data input (not used)
7	DSP_SPICLK/DIR_CLK	O	DSP/DIR clock output (not used)
8	BYTE	I	External data bus (Ground terminal)
9	CNVSS	I	Change processor mode (Pull down)
10	EN_A/DAMP FSDLY	I	Volume control for ENCODER (Pull up)
11	EN_B/FL_RESET	I	Volume control for ENCODER (Pull up)
12	RESET	I	System reset signal input
13	XOUT	O	Crystal output for main clock (5MHz)
14	VSS	—	Ground terminal
15	XIN	I	Crystal input for main clock (5MHz)
16	VCC	—	Power supply (BUP+3.3V)
17	NMI	I	BUP +3.3V
18	DIR_ZERO	I	DIR zero data detect (not used)
19	DIR_CSFLAG/A.CAL _OUT_LEVEL	I	Out level detect for auto calibration
20	AC_CUT	I	Detect AC-CUT
21	FL_CLK/LED_CLK	O	FL and LED driver clock output
22	LED_LAT	O	LED driver latch
23	DIAT_CSOD	I	DIAT CSOD signal input (not used)
24	FL_D_OUT/LED_DATA	O	FL and LED driver data output
25	FL_CS/STB	O	FL driver chip select
26	MIC_GAIN	O	MIC gain control
27	CDM_OPEN_SW	I	CDM open switch input
28	DC_CONT	O	A.CAL MIC DC control output
29	I2C_CLK	I/O	I^2C clock input
30	I2C_DATA	I/O	I^2C data input
31	DVD_SID	O	Media Tek data out/Flash write TXD1
32	DVD_SOD	I	Media Tek data in/Flash write RXD1
33	DVD_SCO	I	Media Tek clock in/Flash write CLK1
34	DVD_XIFBUSY	O	Media Tek busy request/Flash write RTS1
35	XM_SC_TX_OUT/ MIC_DET_OUT	O	MIC detect status out to Media Tek (not used)
36	XM_SC_RX_IN/ KARAOKE MODE	I	KARAOKE mode information from Media Tek (not used)
37	DVD XIFCS	I	Media Tek chip select
38	MTK RST	O	Media Tek reset
39	P_CONT1	O	Control for power supply 1
40	P_CONT2	O	Control for power supply 2
41	P_CONT3	O	Control for power supply 3
42	DRIVE_RST (EN)	O	DAMP driver reset

Pin No.	Pin Name	I/O	Description
43	DRIVE_OCP (DIAG)	I	DAMP driver shut down
44	OVERFLOW1	I	DAMP processor F/C/S over flow detect
45	OVERFLOW2	I	DAMP processor SW over flow detect
46	CE	I	Flash write CE (not used)
47	DAMP LATCH1	O	DAMP processor latch1
48	DAMP LATCH2	O	DAMP processor latch2
49	DAMP LATCH3	O	DAMP processor latch3
50	DAMP INIT	O	DAMP processor reset
51	DAMP SOFT MUTE	O	DAMP processor soft muting
52	HP_SW	I	Head phone detect
53	HP_MUTE	O	Head phone muting
54	SRC_MUTE	O	Sampling rate converter mute control (not used)
55	DSP_RESET	O	DSP reset (not used)
56	DSP_SPIDS	O	DSP device select (not used)
57	SEL_SA-CD	O	DSP input data select (not used)
58	DSP_RST	O	DIR reset (not used)
59	DSP_HCE	O	DIR chip enable (not used)
60	DAMP OUT2DLY/ DIR_ERR	I	DAMP OUT 2DLY select switch
61	DAMP FSDLY/ DIR_XSTATE	I	DAMP FSDLY select switch
62	VCC	—	Power supply (BUP 3.3V)
63	DIR_HDOUT	I	DIR data in (not used)
64	VSS	—	Ground terminal
65	DIAT_XRST	O	DIAT reset (not used)
66	DIAT_XSCEN	O	DIAT chip enable (not used)
67	SRC_MODEO	O	Sampling rate convertor MODEO control (not used)
68	M_ST	O	LINK (Multi STEREO) control
69	TUNED	I	TUNER tuned input
70	ST_CLK	O	TUNER clock output
71	ST_DO	I	TUNER data input
72	ST_CE	O	TUNER chip enable
73	ST_DI	O	TUNER data output
74	KEY INT	I	Wakeup from ECO mode by Power key input
75	RDS_CLK/MIC_CLK/ XM_ERR_IRQ	O	not used
76	RDS-DATA/MIC-DAT/ XM_COM_SEL	O	not used
77	XM_RESET	O	XM reset (not used)
78	DABSEL/XMSEL	O	XM clock select (not used)
79	V_SEL0	O	VIDEO selector 0
80	V_SEL1	O	VIDEO selector 1
81	TVSEL/V_SEL3	O	TV / VIDEO selector 3 (not used)
82	A_SEL0	O	Audio selector 0
83	A_SEL1	O	Audio selector 1
84	V_SEL2	O	VIDEO selector 2
85	IO_CE	O	I/O expander IC chip enable
86	IO_RESET	O	I/O expander IC reset
87	IO_DI	O	I/O expander IC data output

Pin No.	Pin Name	I/O	Description
88	IO_DO	I	I/O expander IC data input
89	IO_CLK	O	I/O expander IC clock output
90	MONO/ST_DET	I	Front jack MONO or STEREO detect
91	A.CAL MIC LEVEL/ A_SEL2	I	MIC level detect for auto calibration
92	DESTINATION	I	Destination select input
93	MODEL	I	Model select input
94	KEY2	I	Key input 2 input
95	KEY1	I	Key input 1 input
96	VSS	—	Ground terminal
97	KEY0	I	Key input 0 input
98	VREF	—	Reference voltage (BUP+3.3V)
99	VCC	—	Power supply (BUP+3.3V)
100	MIC/A.CAL SW	I	MIC insert switch

DMB12 BOARD IC101 CXD9804R
(CD/DVD RF AMP, FOCUS/TRACKING ERR AMP, DVD SYSTEM PROCESSOR, DIGITAL SERVO PROCESSOR)

Pin No.	Pin Name	I/O	Description
1	AGND	—	Ground terminal
2	DVDA	I	AC coupled input path A
3	DVDB	I	AC coupled input path B
4	DVDC	I	AC coupled input path C
5	DVDD	I	AC coupled input path D
6	DVDRFIP	I	AC coupled DVD RF signal input RFIP
7	DVDRFIN	I	AC coupled DVD RF signal input RFIN (not used)
8	MA	I	DC coupled main-beam RF signal input A
9	MB	I	DC coupled main-beam RF signal input B
10	MC	I	DC coupled main-beam RF signal input C
11	MD	I	DC coupled main-beam RF signal input D
12	SA	I	DC coupled sub-beam RF signal input A (not used)
13	SB	I	DC coupled sub-beam RF signal input B (not used)
14	SC	I	DC coupled sub-beam RF signal input C (not used)
15	SD	I	DC coupled sub-beam RF signal input D (not used)
16	SDFON	I	CD focusing error negative input (not used)
17	SDFOP	I	CD focusing error positive input (not used)
18	TNI	I	3 beam satellite PD signal negative input
19	TPI	I	3 beam satellite PD signal positive input
20	MDI1	I	Laser power monitor input
21	MDI2	I	Laser power monitor input
22	LDO2	O	Laser driver output
23	LDO1	O	Laser driver output
24	SVDD3	—	Power supply (RF+3.3V)
25	CSO	O	Central servo, positive main beam summing output (not used)
26	RFLVL	O	RFRP low pass, or Positive main beam summing output (not used)
27	SGND	—	Ground terminal
28	V2REFO	O	Reference voltage 2.8V
29	V2O	O	Reference voltage 2.0V
30	VREFO	O	Reference voltage 1.4V
31	FEO	O	Focus error monitor output (not used)
32	TEO	O	Tracking error monitor output (not used)
33	TEZISLV	O	TE slicing level (not used)
34	OPOUT	O	Op amp output (not used)
35	OP_INN	I	Op amp negative input (not used)
36	OP_INP	I	Op amp positive input (not used)
37	DMO	O	Disk motor control output. PWM output
38	FMO	O	Feed motor control. PWM output
39	TROPENPWM	O	Tray PWM output/tray open output.
40	IOPMON	I	Power monitor signal input
41	TRO	O	Tracking servo output
42	FOO	O	Focus servo output
43	USB_VSS	—	Ground terminal
44	USBP	—	USB port DPLUS analog pin (not used)
45	USBM	—	USB port DMINUS analog pin (not used)
46	USB_VDD3	—	Power supply (SW+3.3V)
47	SPFG	I	Motor hall sensor input

Pin No.	Pin Name	I/O	Description
48	MSW	I	Mute signal control output
49	CKSW	—	Not used
50	OCSW	—	Not used
51	EEWP	O	WF signal output to EEPROM (IC103)
52	DVDD18	—	Power supply (+1.8V from IC110)
53 to 59	HA 2 to 8	O	Address bus 2 to 8 output to FLASH ROM (IC102)
60, 61	HA18, 19	O	Address bus 18, 19 output to FLASH ROM (IC102)
62	DVSS	—	Ground terminal
63	APLLCAP	I	APLL external capacitance connection
64	APLLVSS	—	Ground terminal
65	APLLVDD3	—	Power supply (+3.3V from IC105)
66	XWR	O	WE signal output to FLASH ROM (IC102)
67 to 72	HA 16 to 11	O	Address bus 16 to 11 output to FLASH ROM (IC102)
73	DVDD3	—	Power supply (SW+3.3V)
74, 75	HIGHA 10, 9	O	Address bus 10, 9 output to FLASH ROM (IC102)
76	HA20	O	Address bus 20 output to FLASH ROM (IC102)
77	XROMCS	O	CE signal output to FLASH ROM (IC102)
78	HA1	O	Address bus 1 output to FLASH ROM (IC102)
79	XRD	O	OE signal output to FLASH ROM (IC102)
80	DVDD3	—	Power supply (SW+3.3V)
81 to 84	HD 0 to 3	I	Data bus 0 to 3 input from FLASH ROM (IC102)
85	DVSS	—	Ground terminal
86 to 88	HD 4 to 6	I	Data bus 4 to 6 input from FLASH ROM (IC102)
89	HA21	O	Address bus 21 output to FLASH ROM (IC102)
90	ALE	O	Address latch enable (not used)
91	HD7	I	Data bus 7 input from FLASH ROM (IC102)
92	HA17	O	Address bus 17 output to FLASH ROM (IC102)
93	HA0	O	Address bus 0 output to FLASH ROM (IC102)
94	DVSS	—	Ground terminal
95	$\overline{\text{UWR}}$	I	System controller write strobe (not used)
96	$\overline{\text{URD}}$	I	System controller read strobe (not used)
97	DVDD18	—	Power supply (+1.8V from IC110)
98	IFSDO	O	DVD SOD signal output to system controller (IC501)
99	IFSCK	O	DVD SCO signal output to system controller (IC501)
100	XIFCS	I	DVD XIFCS signal input from system controller (IC501)
101	IFSDI	I	VIFBUSY signal input from system controller (IC501)
102	SCL	O	SCL signal output to EEPROM (IC103)
103	SDA	O	SDA signal output to EEPROM (IC103)
104	TRG-SW	O	RS232 RXD signal output (not used)
105	XRST	O	RS232 reset signal output
106	RXD	I	RD232 RXD clock
107	TXD	I	RD232 TXD data
108	DVDD3	—	Power supply (SW+3.3V)
109	ICE	I	ICE mode enable (not used)
110	XSYSRST	I	MTRST signal input from system controller (IC501)
111	IR	I	IR control signal input (not used)
112	XTXINT	I	External interrupt0 (not used)
113	DQMO	O	DQM0 signal output to SD-RAM (IC104)
114	XIFSSY	I	DQM signal input

Pin No.	Pin Name	I/O	Description
115	RD7	I	Data bus 7 from SD-RAM (IC104)
116	DVSS	—	Ground terminal
117, 118	RD 6, 5	I	Data bus 6, 5 from SD-RAM (IC104)
119	DVSS	—	Ground terminal
120, 121	RD 4, 3	I	Data bus 4, 3 from SD-RAM (IC104)
122	DVDD18	—	Power supply (+1.8V from IC110)
123 to 125	RD 2 to 0	I	Data bus 2 to 0 from SD-RAM (IC104)
126	RD15	I	Data bus 15 from SD-RAM (IC104)
127	DVDD3	—	Power supply (SW+3.3V)
128	RD 14	I	Data bus 14 from SD-RAM (IC104)
129 to 133	RD 13 to 9	I	Data bus 13 to 9 from SD-RAM (IC104)
134	DVSS	—	Ground terminal
135	RD8	I	Data bus 8 from SD-RAM (IC104)
136	LIMITSW	I	LIMSW signal input
137	DQM1	O	DQM1 signal output to SD-RAM (IC104)
138	$\overline{\text{RWE}}$	O	WE signal output to SD-RAM (IC104)
139	$\overline{\text{CAS}}$	O	CAS signal output to SD-RAM (IC104)
140	$\overline{\text{RAS}}$	O	RAS signal output to SD-RAM (IC104)
141	DVDD3	—	Power supply (SW+3.3V)
142	$\overline{\text{RCS}}$	O	RCS signal output to SD-RAM (IC104)
143	BA0	O	BAO signal output to SD-RAM (IC104)
144	DVSS	—	Ground terminal
145	BA1	O	BA1 signal output to SD-RAM (IC104)
146	RA10	O	Address bus 10 output to SD-RAM (IC104)
147	RA0	O	Address bus 0 output to SD-RAM (IC104)
148	DVSS	—	Ground terminal
149 to 151	RA 1 to 3	O	Address bus 1 to 3 output to SD-RAM (IC104)
152	DVDD18	—	Power supply (+1.8V from IC110)
153	RVREF	—	Reference voltage (not used)
154	RCLKB	—	Dram clock (not used)
155	DVDD3	—	Power supply (SW+3.3V)
156	DRCLK	O	CLK signal output to SD-RAM (IC104)
157	CKE	O	CKE signal output to SD-RAM (IC104)
158 to 160	RA 11 to 8	O	Address bus 11 to 8 output to SD-RAM (IC104)
161	DVSS	—	Ground terminal
162	RA7	O	Address bus 7 output to SD-RAM (IC1104)
163	DVSS	—	Ground terminal
164 to 166	RA 6 to 4	O	Address bus 6 to 4 output to SD-RAM (IC104)
167	DVDD3	—	Power supply (SW+3.3V)
168 to 172	SMPTE_Y (7) to Y (3)	O	VIDEO signal output to HDMI Driver (IC701)
173	DVDD18	—	Power supply (+1.8V from IC110)
174	SMPTE_Y (2)	O	VIDEO signal output to HDMI Driver (IC701)
175	DVSS	—	Ground terminal
176 to 177	SMPTE_Y (1) to Y (0)	O	VIDEO signal output to HDMI Driver (IC701)
178	VCLK	O	System clock output
179	WIDE	I	Wide switch signal input
180	ADSCK	—	Not used
181	TSD_M	O	TSDM signal output to Motor Driver (IC201)
182	DVDD3	—	Power supply (SW+3.3V)

Pin No.	Pin Name	I/O	Description
183	MUTE	O	MUTE signal output to Motor Driver (IC201)
184	MUTE123	O	MUTE123 signal output to Motor Driver (IC201)
185	REW	O	REW signal output to Motor Driver (IC201)
186	FWD	O	FWD signal output to Motor Driver (IC201)
187	ADSD0	O	Not used
188	XDACS	O	Not used
189	DAVCC	—	Power supply (+3.3V from IC105)
190	DACVDDC	I	Bandgap reference voltage (not used)
191	FS	O	Full scale adjustment (pull down)
192	CIN	—	Not used
193	DAVSS	—	Ground terminal
194	YUV1	O	Y signal output to VIDEO AMP (IC201)
195	DAVDD	—	Power supply (+3.3V from IC105)
196	YUV2	O	CHROMA signal output to VIDEO AMP (IC201)
197	DAVSS	—	Ground terminal
198	YUV3	O	VIDEO signal output to VIDEO AMP (IC201)
199	DAVDD	—	Power supply (+3.3V from IC105)
200	YUV4	O	Y signal output to VIDEO AMP (IC201)
201	DAVSS	—	Ground terminal
202	YUV5	O	Cb signal output to VIDEO AMP (IC201)
203	YUV6	O	Cr signal output to VIDEO AMP (IC201)
204	DVDD3	—	Power supply (SW+3.3V)
205	VSYN	O	Active low vertical sync output to HDMI Driver (IC701)
206	YUV7	—	Not used
207	SMBSY	O	Active low horizontal sync output to HDMI Driver (IC701)
208	SMSCK	O	SMS clock output
209	SMSDI	I	Audio data of SPDIF input
210	SMSDO	O	SMS data output
211	XSMCS	O	SMS CS output
212	DVDD3	—	Power supply (SW+3.3V)
213	ALRCK	O	Audio left/right channel clock
214	ABCK	O	Audio bit clock
215	ACLK	O	Audio DAC master clock
216	DVSS	—	Ground terminal
217	ASDATA0	O	Audio serial data 0
218	ASDATA1	O	Audio serial data 1
219	ASDATA2	O	Audio serial data 2
220	SPDATA	—	Not used
221	DVDD18	—	Power supply (+1.8V)
222	ASDATA4	O	Audio serial data 4
223	DVSS	—	Ground terminal
224	GPIO	—	Not used
225	SDPIF	O	SPDIF output (not used)
226	RFGND18	—	Ground terminal
227	RFVDD18	—	Power supply (RF+1.8V)
228	XTALO	O	Oscillator output signal (27MHz)(not used)
229	XTALI	I	Oscillator input signal (27MHz)
230	JITFO	O	RF jitter meter output (not used)
231	JITFN	I	Negative input of operation amplifier for RF jitter meter (not used)

Pin No.	Pin Name	I/O	Description
232	PLLVSS	—	Ground terminal
233	IDAC	—	Not used
234	PLLVDD3	—	Power supply (RF+3.3V)
235	LPFON	O	Negative output of loop filter amplifier
236	LPFIP	I	Positive input of loop filter amplifier
237	LPFIN	I	Negative input of loop filter amplifier
238	LPFOP	O	Positive output of loop filter amplifier
239	VDD3	I	Power supply (RF+3.3V)
240	VCM	I	Not used
241	VSS	—	Ground terminal
242	VREFP	—	Not used
243	VREFN	—	Not used
244	RFVDD3	—	Power supply (RF+3.3V)
245	RFRPDC	I	RFRP signal input
246	RFRPAC	I	RFRP signal input
247	HRFZC	I	High frequency RF ripple zero crossing
248	CRTPLP	O	Defect level filter capacitor connecting
249	RFGND	—	Ground terminal
250	CEQP	—	Not used
251	CEQN	—	Not used
252	OSP	O	RF offset cancellation capacitor connecting
253	OSN	I	RF offset cancellation capacitor connecting
254	RFGC	O	RF offset loop capacitor connecting for DVD-ROM
255	IREF	I	Current reference input (not used)
256	AVDD3	—	Power supply (RF+3.3V)

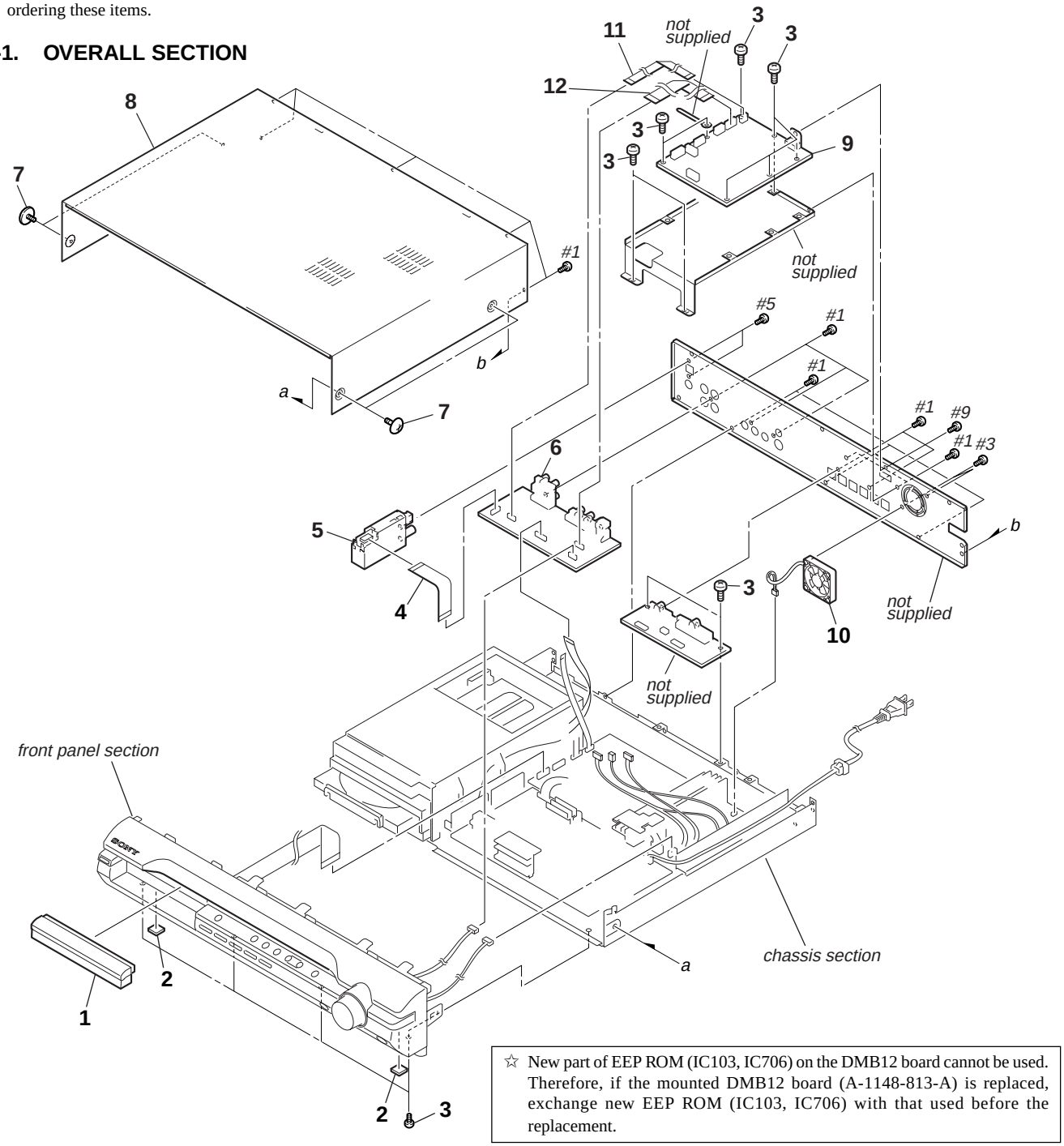
SECTION 7
EXPLODED VIEWS

NOTE:

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

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

7-1. OVERALL SECTION



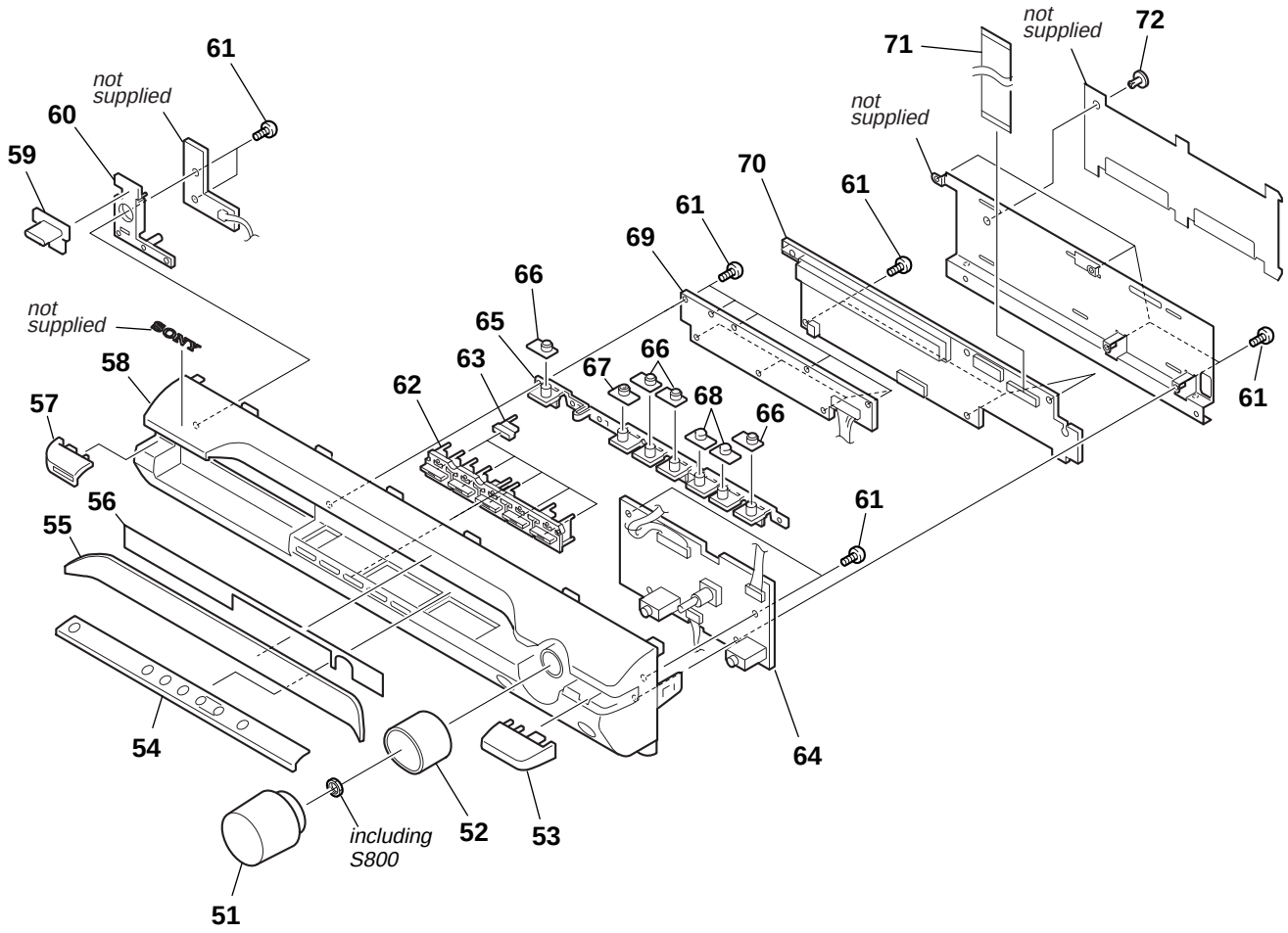
☆ New part of EEP ROM (IC103, IC706) on the DMB12 board cannot be used. Therefore, if the mounted DMB12 board (A-1148-813-A) is replaced, exchange new EEP ROM (IC103, IC706) with that used before the replacement.

Ref. No.	Part No.	Description	Remark
1	2-653-086-01	PANEL, LOADING	
2	4-232-478-41	FOOT	
3	3-077-331-21	+BV3 (3-CR)	
4	1-828-953-11	WIRE (FLAT TYPE) (9 CORE)	
5	1-693-703-11	TUNER (FM/AM) (TM10SU)	
6	A-1176-128-A	I/O BOARD, COMPLETE	
7	3-363-099-51	SCREW (CASE 3 TP2)	
8	2-653-945-01	CASE	
☆ 9	A-1148-813-A	DMB12 BOARD, COMPLETE	

Ref. No.	Part No.	Description	Remark
10	1-787-331-11	FAN, D.C.	
11	1-828-292-11	WIRE (FLAT TYPE) (5 CORE)	
12	1-828-319-11	WIRE (FLAT TYPE) (11 CORE)	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
#3	7-685-881-09	SCREW +BVTT 4X8 (S)	
#5	7-685-871-01	SCREW +BVTT 3X6 (S)	
#9	7-682-547-04	SCREW +B 3X6	

Note: If the wire (flat type) was replaced, fold it some as the wire (flat type) before replacement.

7-2. FRONT PANEL SECTION



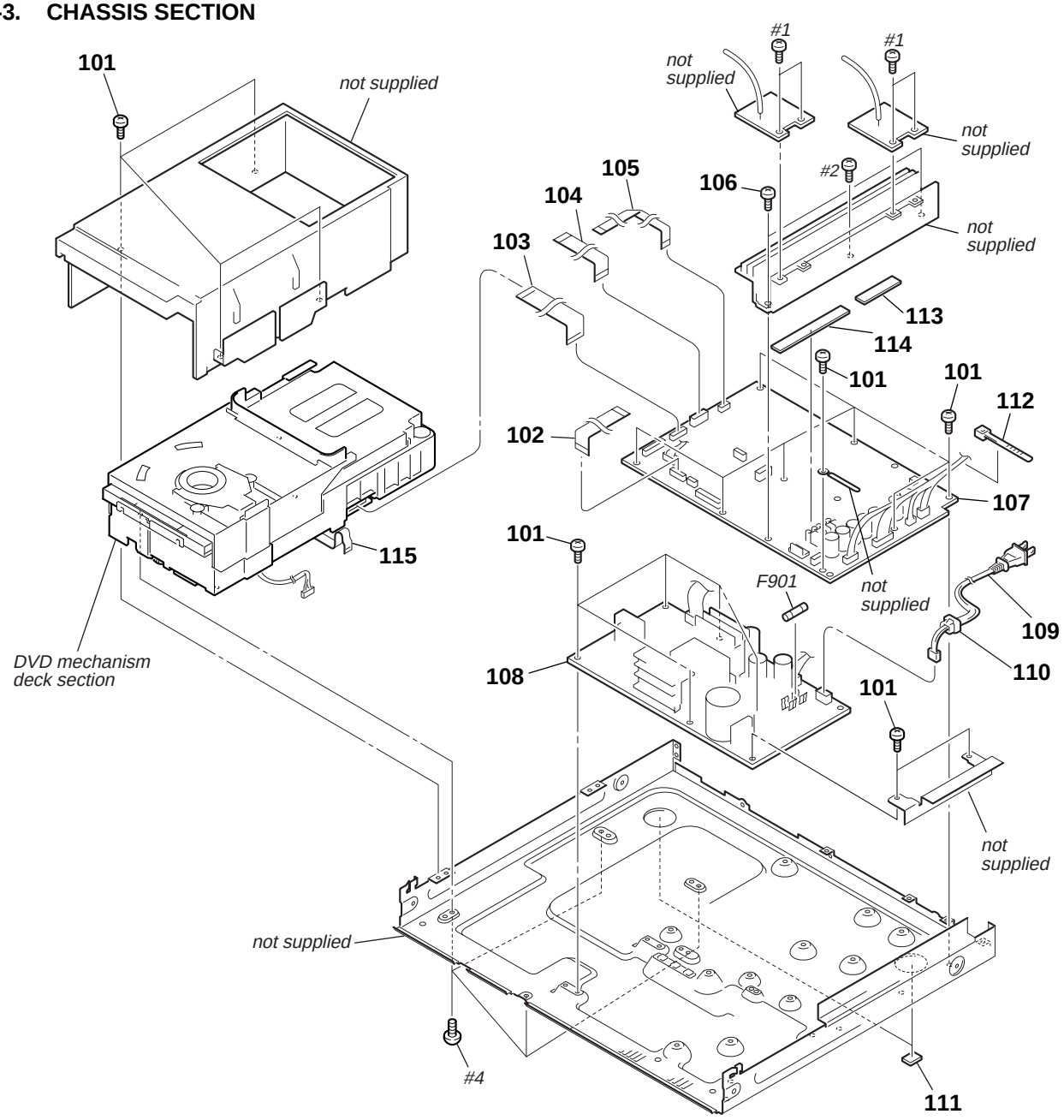
Ref. No.	Part No.	Description	Remark
51	2-654-836-01	KNOB (VOL)	
52	2-654-835-01	RING (VOL)	
53	2-653-097-01	ORNAMENT (RIGHT)	
54	2-653-096-01	ORNAMENT (PLAY)	
55	2-653-098-01	WINDOW, INDICATION	
56	2-664-622-01	SHEET (WINDOW), ADHESIVE	
57	2-653-095-01	ORNAMENT (POWER)	
58	2-653-085-51	PANEL, FRONT	
59	2-653-087-01	CAP (POWER)	
60	2-653-092-01	BUTTON, BASE (POWER)	
61	3-087-053-01	+BVTP2.6 (3CR)	

Ref. No.	Part No.	Description	Remark
62	2-653-091-01	BUTTON (DISC)	
63	2-653-094-01	INDICATOR (DISC)	
64	A-1148-824-A	JACK BOARD, COMPLETE	
65	2-653-093-01	BUTTON BASE (PLAY)	
66	2-653-089-01	CAP (FUNC)	
67	2-653-088-01	CAP (PLAY)	
68	2-653-090-01	CAP (AMS)	
69	A-1148-823-A	LED BOARD, COMPLETE	
70	A-1148-821-A	FL BOARD, COMPLETE	
71	1-828-384-11	WIRE (FLAT TYPE) (23 CORE)	
72	3-531-576-01	RIVET	

Refer to “Precaution when replacing the CAP” when replacing the CAP (PLAY) or CAP (FUNC) or CAP (AMS) or CAP (POWER). (See page 6)

Note: If the wire (flat type) was replaced, fold it some as the wire (flat type) before replacement.

7-3. CHASSIS SECTION

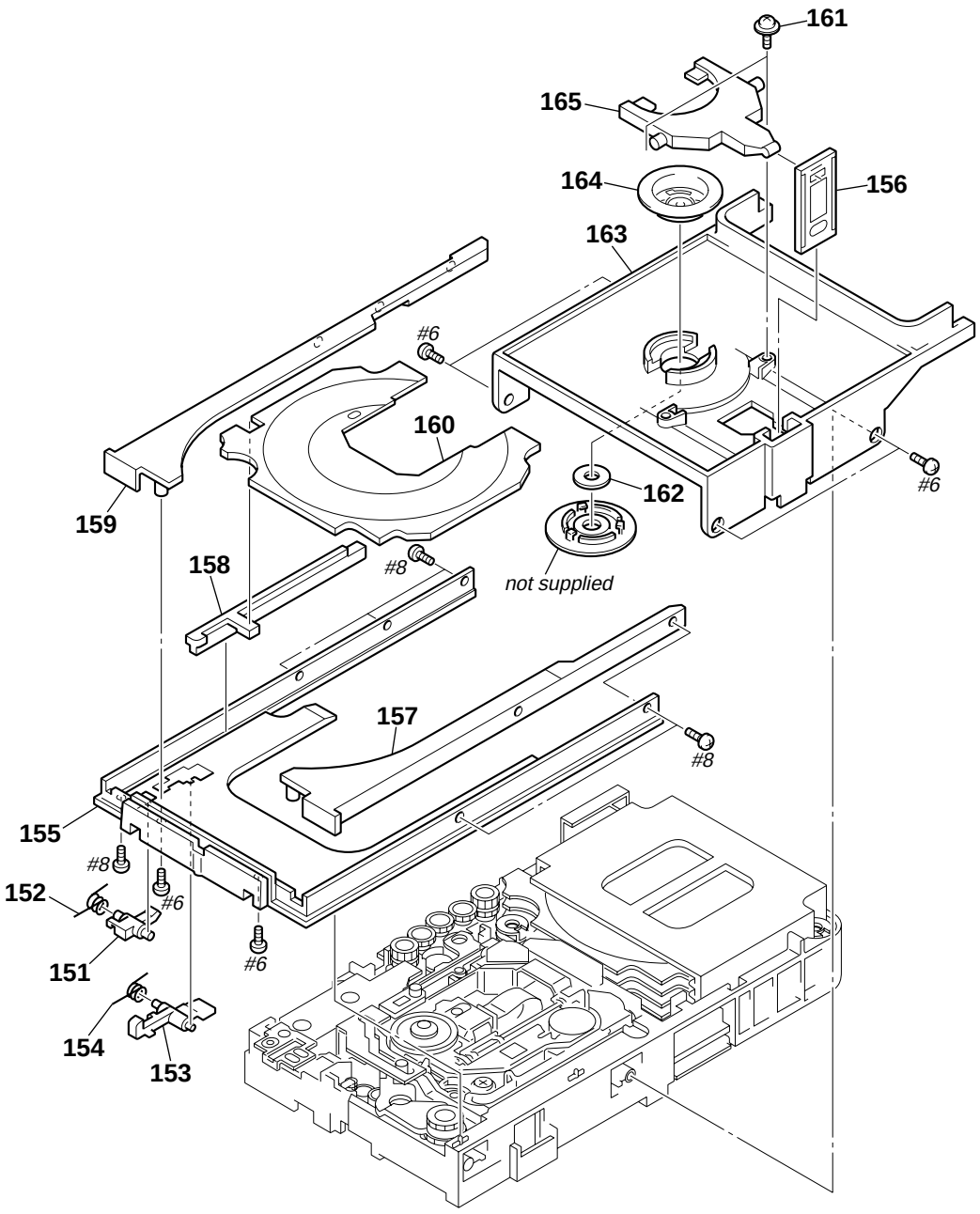


Ref. No.	Part No.	Description	Remark
101	3-077-331-21	+BV3 (3-CR)	
102	1-828-319-11	WIRE (FLAT TYPE) (11 CORE)	
103	1-828-370-11	WIRE (FLAT TYPE) (21 CORE)	
104	1-828-985-11	WIRE (FLAT TYPE) (15 CORE)	
105	1-828-310-11	WIRE (FLAT TYPE) (9 CORE)	
106	3-077-331-01	+BV3 (3-CR)	
107	A-1148-794-A	MAIN BOARD, COMPLETE	
108	A-1146-005-A	POWER BOARD, COMPLETE	
⚠109	1-830-190-11	CORD, POWER	
110	3-703-244-00	BUSHING (2104), CORD	

Ref. No.	Part No.	Description	Remark
111	4-232-478-41	FOOT	
112	4-059-585-01	TIE, CABLE	
113	2-597-972-51	SHEET, RADIATION	
114	2-597-972-11	SHEET, RADIATION	
115	1-828-774-51	WIRE (FLAT TYPE) (24 CORE)	
⚠F901	1-532-749-11	FUSE, GLASS TUBE (8A/125V)	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
#2	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	
#4	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	

Note: If the wire (flat type) was replaced, fold it some as the wire (flat type) before replacement.

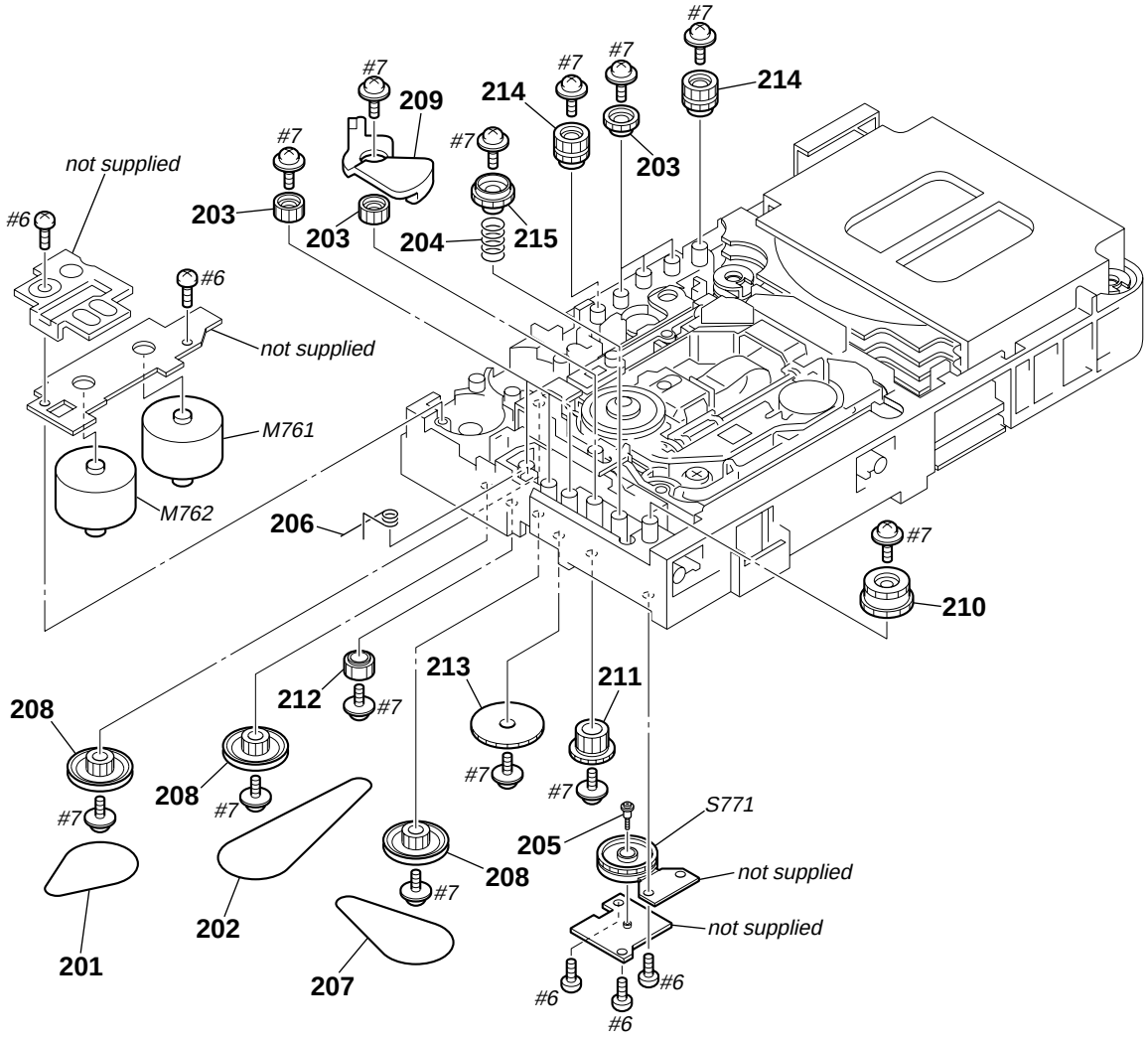
7-4. DVD MECHANISM DECK SECTION-1 (CDM81C-DVBU101)



Ref. No.	Part No.	Description	Remark
151	4-251-849-01	LEVER (SW2)	
152	4-251-991-01	SPRING (SW2), TORSION	
153	4-251-860-01	LEVER (LOCK)	
154	4-251-867-01	SPRING (LOCK), TORSION	
155	4-251-828-01	TRAY (MAIN)	
156	4-251-822-01	JOINT (LIFTER)	
157	4-251-857-01	COVER (R)	
158	4-251-830-01	SLIDER (ST)	
159	4-251-858-01	COVER (L)	

Ref. No.	Part No.	Description	Remark
160	4-251-829-02	TRAY (SUB)	
161	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING	
162	4-251-923-01	YOKE (310)	
163	4-251-821-03	BRACKET (TOP)	
164	4-251-922-01	PULLEY B (310), CHUCKING	
165	4-251-824-01	LIFTER	
#6	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	
#8	7-685-102-19	SCREW +P 2X4 NON-SLIT TYPE 2	

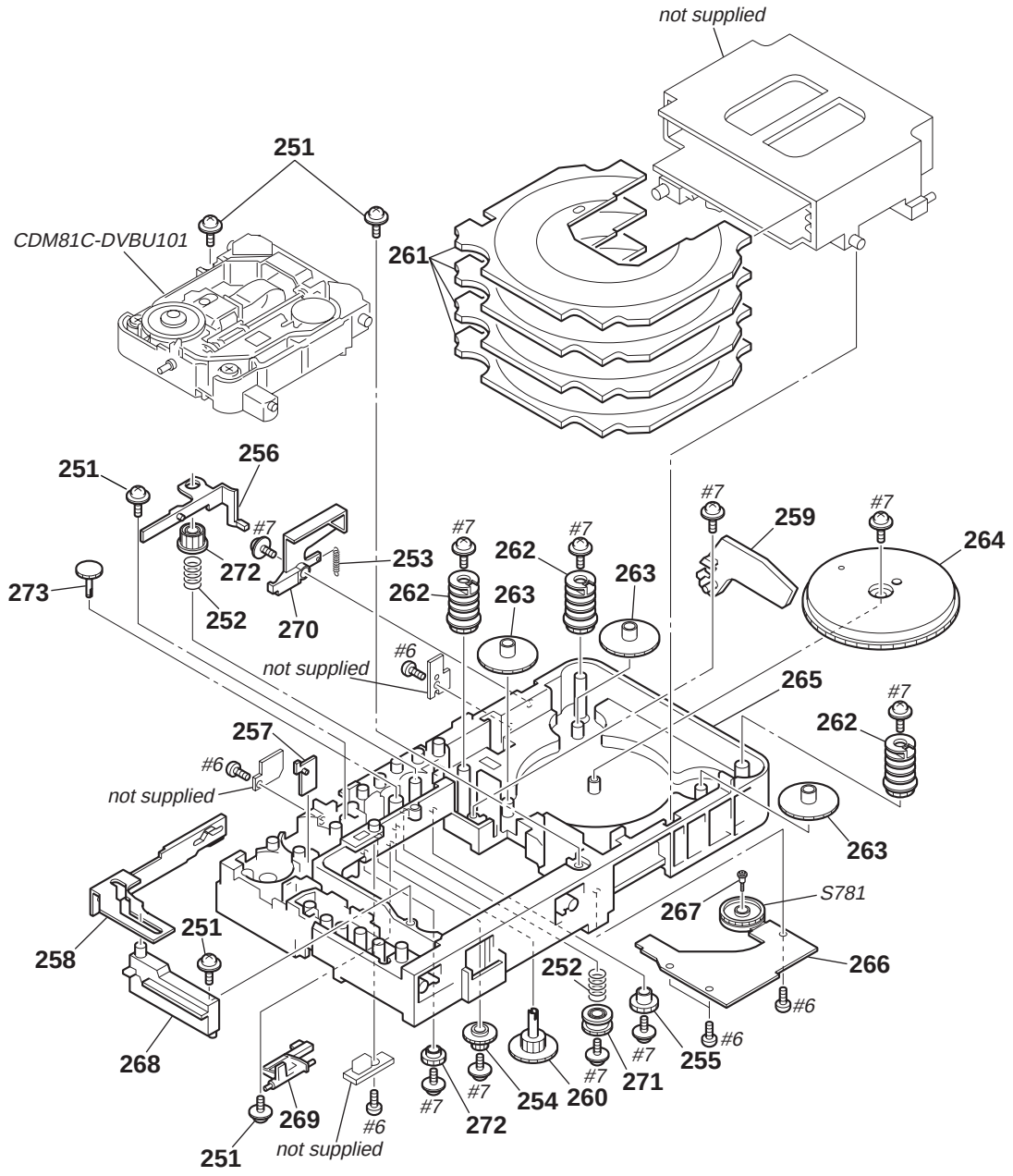
7-5. DVD MECHANISM DECK SECTION-2 (CDM81C-DVBU101)



Ref. No.	Part No.	Description	Remark
201	4-251-870-01	BELT (BU)	
202	4-251-869-01	BELT (MAIN TRAY)	
203	4-251-841-01	GEAR (SUB TRAY 1)	
204	4-251-873-01	SPRING (MODE), COMPRESSION	
205	4-239-618-01	SCREW (+PWH, 2X6), STEP TAPPING	
206	4-251-872-01	SPRING (LEVER), TORSION	
207	4-251-868-01	BELT (SUB TRAY)	
208	4-251-853-01	PULLEY (BU)	
209	4-251-834-01	LEVER (MAIN TRAY)	
210	4-251-852-01	GEAR (MAIN TRAY 3)	

Ref. No.	Part No.	Description	Remark
211	4-251-854-01	GEAR (BU1)	
212	4-251-850-01	GEAR (MAIN TRAY 1)	
213	4-251-856-01	GEAR (BU2)	
214	4-251-842-01	GEAR (SUB TRAY 2)	
215	4-251-851-01	GEAR (MAIN TRAY 2)	
M761	A-4713-174-A	MOTOR (81) ASSY (LD/ST MOTOR)	
M762	A-4713-174-A	MOTOR (81) ASSY (BU U/D MOTOR)	
S771	1-478-552-11	ENCODER, ROTARY (MD)	
#6	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	
#7	7-685-902-21	SCREW +PTPWH 2.6X8 (TYPE2)	

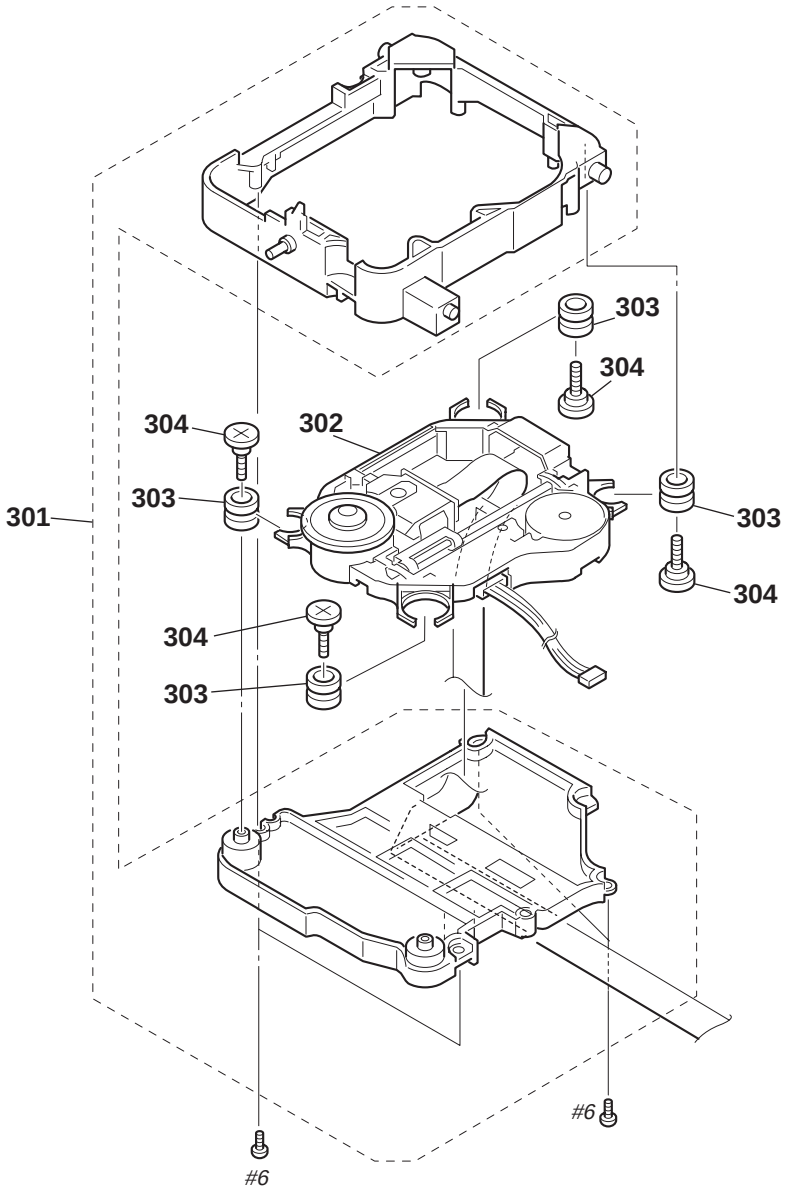
7-6. DVD MECHANISM DECK SECTION-3 (CDM81C-DVBU101)



Ref. No.	Part No.	Description	Remark
251	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING	
252	4-251-873-01	SPRING (MODE), COMPRESSION	
253	4-251-874-02	SPRING (SW), TENSION	
254	4-251-844-01	GEAR (SS2)	
255	4-251-835-01	GEAR (STOCKER 1)	
256	4-251-833-01	LEVER (SUB TRAY)	
257	4-251-843-01	LEVER (RELEASE)	
258	4-251-831-02	LEVER (MODE)	
259	4-251-862-01	SHUTTER (TRAY)	
260	4-251-845-01	GEAR (SS3)	
261	4-251-829-02	TRAY (SUB)	
262	4-251-827-01	CAM (STOCKER)	
263	4-251-836-01	GEAR (STOCKER 2)	
264	4-251-838-01	GEAR (STOCKER 3)	

Ref. No.	Part No.	Description	Remark
265	4-251-823-01	CHASSIS (CDM81)	
266	A-4750-232-A	RELAY BOARD, COMPLETE	
267	4-239-618-01	SCREW (+PWH, 2X6), STEP TAPPING	
268	4-251-825-01	CAM (BU)	
269	4-251-832-01	LEVER (STOCKER)	
270	4-251-861-01	LEVER (SW)	
271	4-251-839-01	GEAR (STOCKER 4)	
272	4-251-840-01	GEAR (SUB TRAY)	
273	4-251-847-01	GEAR (SS4)	
S781	1-478-551-11	ENCODER, ROTARY (ST U/D ENCORDER)	
#6	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	
#7	7-685-902-21	SCREW +PTPWH 2.6X8 (TYPE2)	

7-7. BASE UNIT (DVBU101)



Ref. No.	Part No.	Description	Remark
301	X-4956-097-1	HOLDER (310) ASSY	
⚠302	8-820-291-02	OPTICAL PICK-UP (KHM-310CAB/C2RP)	
303	2-634-618-01	INSULATOR	
304	3-087-599-01	INSULATOR SCREW	
#6	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	

SECTION 8
ELECTRICAL PARTS LIST

DMB12

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.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS
  uF: µF
- COILS
  uH: µH
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. ., uPA. . : µPA. .,
  uPB. . : µPB. ., uPC. . : µPC. .,
  uPD. . : µPD. .

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

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
☆	A-1148-813-A	DMB12 BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C102	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C105	1-128-994-21	ELECT CHIP	47uF	20%	10V
C106	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C112	1-128-994-21	ELECT CHIP	47uF	20%	10V
C113	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C114	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C115	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C116	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C117	1-124-779-00	ELECT CHIP	10uF	20%	16V
C118	1-124-779-00	ELECT CHIP	10uF	20%	16V
C119	1-124-779-00	ELECT CHIP	10uF	20%	16V
C120	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C121	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C122	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C123	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C124	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C125	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C126	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C127	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C128	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C130	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C131	1-125-889-91	CERAMIC CHIP	2.2uF	10%	10V
C132	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C133	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C135	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C136	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C137	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C138	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C139	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C140	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C141	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C142	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C143	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C144	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C145	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C147	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C148	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C149	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C150	1-124-779-00	ELECT CHIP	10uF	20%	16V
C151	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C152	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C153	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C154	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C155	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C156	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C157	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C158	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C160	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C161	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C162	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C163	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C164	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C171	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C172	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C173	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C174	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C175	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C176	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C177	1-128-994-21	ELECT CHIP	47uF	20%	10V
C179	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C180	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C181	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C182	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C183	1-128-934-91	CERAMIC CHIP	0.33uF	20%	10V
C184	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C186	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C187	1-126-208-21	ELECT CHIP	47uF	20%	4V
C190	1-128-994-21	ELECT CHIP	47uF	20%	10V
C191	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C192	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C193	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C195	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C197	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C198	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C199	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C203	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C205	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C206	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C208	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C209	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C210	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C211	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C212	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C213	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C214	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C215	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C217	1-126-204-11	ELECT CHIP	47uF	20%	16V

☆ New part of EEP ROM (IC103, IC706) on the DMB12 board cannot be used. Therefore, if the mounted DMB12 board (A-1148-813-A) is replaced, exchange new EEP ROM (IC103, IC706) with that used before the replacement.

Ref. No.	Part No.	Description			Remark
C218	1-124-779-00	ELECT CHIP	10uF	20%	16V
C219	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C220	1-124-779-00	ELECT CHIP	10uF	20%	16V
C221	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C222	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C224	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C233	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C602	1-128-994-21	ELECT CHIP	47uF	20%	10V
C603	1-128-994-21	ELECT CHIP	47uF	20%	10V
C701	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C702	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C703	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C704	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C707	1-128-993-21	ELECT CHIP	22uF	20%	10V
C709	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C710	1-124-779-00	ELECT CHIP	10uF	20%	16V
C711	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C712	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C713	1-164-172-11	CERAMIC CHIP	0.0056uF	10%	25V
C714	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C715	1-128-994-21	ELECT CHIP	47uF	20%	10V
C716	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C717	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C718	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C719	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C720	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C723	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C725	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C726	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C727	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C729	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C730	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C731	1-128-993-21	ELECT CHIP	22uF	20%	10V
C732	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C733	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C734	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C736	1-126-208-21	ELECT CHIP	47uF	20%	4V
C1103	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1104	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1105	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1106	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1107	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1501	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C4501	1-117-370-11	CERAMIC CHIP	10uF		10V
C4502	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C4504	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C4601	1-117-370-11	CERAMIC CHIP	10uF		10V
C4602	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4603	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4605	1-128-994-21	ELECT CHIP	47uF	20%	10V
C4606	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4607	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4608	1-124-779-00	ELECT CHIP	10uF	20%	16V
C4609	1-124-779-00	ELECT CHIP	10uF	20%	16V
C4610	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4611	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C4621	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V

Ref. No.	Part No.	Description	Remark
		< CONNECTOR >	
CN101	1-815-763-32	CONNECTOR, FFC/FPC 24P	
* CN105	1-770-470-21	PIN, CONNECTOR (PC BOARD) 6P	
CN109	1-784-370-21	CONNECTOR, FFC/FPC 11P	
* CN201	1-770-470-21	PIN, CONNECTOR (PC BOARD) 6P	
CN601	1-779-993-11	PIN, CONNECTOR (PWB) 5P	
CN701	1-818-086-21	HDMI CONNECTOR (HDMI OUT (DVD ONLY))	
CN1701	1-573-806-21	PIN, CONNECTOR (1.5MM) (SMD) 6P	
CN4301	1-784-370-21	CONNECTOR, FFC/FPC 11P	
CN4302	1-784-365-21	CONNECTOR, FFC/FPC 5P	
CN4501	1-784-368-11	CONNECTOR, FFC/FPC 9P	
		< FERRITE BEAD >	
FB106	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB107	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB108	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB111	1-469-670-21	FERRITE, EMI (SMD) (2012)	
FB112	1-469-670-21	FERRITE, EMI (SMD) (2012)	
FB115	1-469-670-21	FERRITE, EMI (SMD) (2012)	
FB123	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB601	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB602	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB603	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB604	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB605	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB606	1-469-324-21	FERRITE, EMI (SMD) (2012)	
		< FLUORESCENT INDICATOR >	
FL601	1-234-177-21	FILTER, CHIP EMI	
FL602	1-233-893-21	FILTER, CHIP EMI	
FL603	1-234-177-21	FILTER, CHIP EMI	
FL701	1-234-177-21	FILTER, CHIP EMI	
FL703	1-234-177-21	FILTER, CHIP EMI	
FL704	1-234-177-21	FILTER, CHIP EMI	
FL705	1-234-177-21	FILTER, CHIP EMI	
FL4501	1-234-177-21	FILTER, CHIP EMI	
		< IC >	
IC101	6-706-727-01	IC CXD9804R	
IC102	6-806-675-01	IC S29AL032D70TF-CHI1-0611UC	
☆ IC103	not supplied	IC BR24L64F-WE2	
IC104	6-707-897-01	IC EDS6416AHTA-75-E	
IC105	6-702-302-01	IC TK11133CSCL-G	
IC107	6-702-302-01	IC TK11133CSCL-G	
IC110	6-707-739-01	IC MM1661JTRE	
IC111	6-704-100-01	IC TC7PAU04FU (TE85R)	
IC150	6-703-046-01	IC SN74LVC1G08DCKR	
IC201	6-704-524-01	IC FAN8036L	
IC701	6-708-682-01	IC CXD9873Q	
IC702	6-702-300-01	IC TK11118CSCL-G	
IC703	6-702-302-01	IC TK11133CSCL-G	
IC705	6-703-046-01	IC SN74LVC1G08DCKR	
☆ IC706	not supplied	IC BR24L16F-WE2	
IC707	6-705-337-01	IC TK11150CSCL-G	
IC708	6-806-298-01	IC MB95F108ASPFV-GE1-H0601	
IC4502	6-703-589-01	IC SN74LVC1G125DCKR	
IC4601	6-707-608-01	IC PCM1803DBR	

☆ New part of EEP ROM (IC103, IC706) on the DMB12 board cannot be used. Therefore, if the mounted DMB12 board (A-1148-813-A) is replaced, exchange new EEP ROM (IC103, IC706) with that used before the replacement.

Ref. No.	Part No.	Description			Remark
		< COIL >			
L3601	1-469-555-21	INDUCTOR	10uH		
L4602	1-469-555-21	INDUCTOR	10uH		
		< LINE FILTER >			
* LF701	1-813-308-11	COMMON MODE CHOKE			
* LF702	1-813-308-11	COMMON MODE CHOKE			
* LF703	1-813-308-11	COMMON MODE CHOKE			
* LF704	1-813-308-11	COMMON MODE CHOKE			
		< TRANSISTOR >			
Q101	6-550-008-01	TRANSISTOR	UM6K1N-TN		
Q102	6-550-653-01	TRANSISTOR	QST8TR		
Q103	8-729-027-52	TRANSISTOR	RT1N241C-TP-1		
Q701	8-729-012-57	TRANSISTOR	2SK1399-T1B		
Q702	8-729-012-57	TRANSISTOR	2SK1399-T1B		
		< RESISTOR >			
R101	1-216-809-11	METAL CHIP	100	5%	1/10W
R102	1-216-295-91	SHORT CHIP	0		
R103	1-216-864-11	SHORT CHIP	0		
R105	1-216-833-11	METAL CHIP	10K	5%	1/10W
R106	1-216-833-11	METAL CHIP	10K	5%	1/10W
R107	1-216-833-11	METAL CHIP	10K	5%	1/10W
R108	1-216-857-11	METAL CHIP	1M	5%	1/10W
R109	1-216-864-11	SHORT CHIP	0		
R110	1-216-841-11	METAL CHIP	47K	5%	1/10W
R111	1-216-809-11	METAL CHIP	100	5%	1/10W
R112	1-211-977-11	METAL CHIP	22	0.5%	1/10W
R113	1-211-977-11	METAL CHIP	22	0.5%	1/10W
R114	1-216-845-11	METAL CHIP	100K	5%	1/10W
R115	1-211-977-11	METAL CHIP	22	0.5%	1/10W
R116	1-216-821-11	METAL CHIP	1K	5%	1/10W
R117	1-216-841-11	METAL CHIP	47K	5%	1/10W
R118	1-216-801-11	METAL CHIP	22	5%	1/10W
R120	1-216-801-11	METAL CHIP	22	5%	1/10W
R121	1-216-801-11	METAL CHIP	22	5%	1/10W
R123	1-216-864-11	SHORT CHIP	0		
R124	1-216-841-11	METAL CHIP	47K	5%	1/10W
R125	1-216-805-11	METAL CHIP	47	5%	1/10W
R130	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R132	1-216-845-11	METAL CHIP	100K	5%	1/10W
R133	1-216-864-11	SHORT CHIP	0		
R135	1-216-833-11	METAL CHIP	10K	5%	1/10W
R136	1-216-835-11	METAL CHIP	15K	5%	1/10W
R138	1-216-809-11	METAL CHIP	100	5%	1/10W
R139	1-216-864-11	SHORT CHIP	0		
R140	1-216-833-11	METAL CHIP	10K	5%	1/10W
R141	1-216-855-11	METAL CHIP	680K	5%	1/10W
R142	1-216-845-11	METAL CHIP	100K	5%	1/10W
R143	1-216-805-11	METAL CHIP	47	5%	1/10W
R145	1-216-864-11	SHORT CHIP	0		
R146	1-216-805-11	METAL CHIP	47	5%	1/10W
R147	1-216-864-11	SHORT CHIP	0		
R148	1-216-864-11	SHORT CHIP	0		
R151	1-216-833-11	METAL CHIP	10K	5%	1/10W
R152	1-216-864-11	SHORT CHIP	0		
R153	1-216-864-11	SHORT CHIP	0		
R154	1-216-864-11	SHORT CHIP	0		
R155	1-216-864-11	SHORT CHIP	0		
R156	1-216-809-11	METAL CHIP	100	5%	1/10W
R159	1-216-805-11	METAL CHIP	47	5%	1/10W
R160	1-216-805-11	METAL CHIP	47	5%	1/10W
R161	1-216-805-11	METAL CHIP	47	5%	1/10W
R162	1-216-864-11	SHORT CHIP	0		
R163	1-469-118-21	FERRITE, EMI (SMD) (1608)			
R164	1-216-864-11	SHORT CHIP	0		
R165	1-469-118-21	FERRITE, EMI (SMD) (1608)			
R166	1-216-864-11	SHORT CHIP	0		
R167	1-469-118-21	FERRITE, EMI (SMD) (1608)			
R169	1-216-864-11	SHORT CHIP	0		
R170	1-216-833-11	METAL CHIP	10K	5%	1/10W
R171	1-216-809-11	METAL CHIP	100	5%	1/10W
R172	1-216-864-11	SHORT CHIP	0		
R173	1-216-864-11	SHORT CHIP	0		
R174	1-216-864-11	SHORT CHIP	0		
R175	1-216-864-11	SHORT CHIP	0		
R183	1-216-805-11	METAL CHIP	47	5%	1/10W
R184	1-216-805-11	METAL CHIP	47	5%	1/10W
R185	1-216-805-11	METAL CHIP	47	5%	1/10W
R189	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R190	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R191	1-216-821-11	METAL CHIP	1K	5%	1/10W
R192	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R193	1-216-821-11	METAL CHIP	1K	5%	1/10W
R195	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R197	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R204	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R205	1-216-833-11	METAL CHIP	10K	5%	1/10W
R206	1-216-833-11	METAL CHIP	10K	5%	1/10W
R207	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R208	1-216-839-11	METAL CHIP	33K	5%	1/10W
R209	1-216-839-11	METAL CHIP	33K	5%	1/10W
R210	1-216-841-11	METAL CHIP	47K	5%	1/10W
R212	1-216-833-11	METAL CHIP	10K	5%	1/10W
R213	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R214	1-216-835-11	METAL CHIP	15K	5%	1/10W
R215	1-216-834-11	METAL CHIP	12K	5%	1/10W
R216	1-216-834-11	METAL CHIP	12K	5%	1/10W
R219	1-216-838-11	METAL CHIP	27K	5%	1/10W
R220	1-216-821-11	METAL CHIP	1K	5%	1/10W
R221	1-218-889-11	METAL CHIP	56K	0.5%	1/10W
R223	1-218-895-11	METAL CHIP	100K	0.5%	1/10W
R224	1-216-833-11	METAL CHIP	10K	5%	1/10W
R225	1-218-895-11	METAL CHIP	100K	0.5%	1/10W
R226	1-218-889-11	METAL CHIP	56K	0.5%	1/10W
R230	1-218-893-11	METAL CHIP	82K	0.5%	1/10W
R231	1-218-875-11	METAL CHIP	15K	0.5%	1/10W
R232	1-218-877-11	METAL CHIP	18K	0.5%	1/10W
R233	1-218-883-11	METAL CHIP	33K	0.5%	1/10W
R234	1-216-833-11	METAL CHIP	10K	5%	1/10W
R246	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R247	1-216-821-11	METAL CHIP	1K	5%	1/10W
R701	1-216-864-11	SHORT CHIP	0		
R702	1-216-864-11	SHORT CHIP	0		

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Ref. No.	Part No.	Description			Remark
R703	1-216-864-11	SHORT CHIP	0		
R704	1-216-864-11	SHORT CHIP	0		
R705	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R708	1-216-821-11	METAL CHIP	1K	5%	1/10W
R709	1-216-821-11	METAL CHIP	1K	5%	1/10W
R712	1-216-809-11	METAL CHIP	100	5%	1/10W
R714	1-216-864-11	SHORT CHIP	0		
R718	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R722	1-216-833-11	METAL CHIP	10K	5%	1/10W
R723	1-216-833-11	METAL CHIP	10K	5%	1/10W
R724	1-216-864-11	SHORT CHIP	0		
R725	1-216-864-11	SHORT CHIP	0		
R728	1-216-864-11	SHORT CHIP	0		
R730	1-218-840-11	METAL CHIP	510	0.5%	1/10W
R731	1-216-864-11	SHORT CHIP	0		
R734	1-216-864-11	SHORT CHIP	0		
R736	1-216-864-11	SHORT CHIP	0		
R738	1-216-864-11	SHORT CHIP	0		
R740	1-216-864-11	SHORT CHIP	0		
R742	1-216-841-11	METAL CHIP	47K	5%	1/10W
R743	1-216-821-11	METAL CHIP	1K	5%	1/10W
R744	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R745	1-216-821-11	METAL CHIP	1K	5%	1/10W
R747	1-216-864-11	SHORT CHIP	0		
R748	1-216-864-11	SHORT CHIP	0		
R749	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R750	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R751	1-216-864-11	SHORT CHIP	0		
R752	1-216-864-11	SHORT CHIP	0		
R753	1-216-864-11	SHORT CHIP	0		
R754	1-216-864-11	SHORT CHIP	0		
R756	1-216-833-11	METAL CHIP	10K	5%	1/10W
R759	1-216-864-11	SHORT CHIP	0		
R760	1-216-809-11	METAL CHIP	100	5%	1/10W
R762	1-216-864-11	SHORT CHIP	0		
R763	1-216-864-11	SHORT CHIP	0		
R764	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R765	1-216-864-11	SHORT CHIP	0		
R766	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R767	1-216-864-11	SHORT CHIP	0		
R769	1-216-864-11	SHORT CHIP	0		
R770	1-216-864-11	SHORT CHIP	0		
R771	1-216-864-11	SHORT CHIP	0		
R772	1-216-864-11	SHORT CHIP	0		
R773	1-216-809-11	METAL CHIP	100	5%	1/10W
R780	1-216-864-11	SHORT CHIP	0		
R781	1-216-833-11	METAL CHIP	10K	5%	1/10W
R782	1-216-833-11	METAL CHIP	10K	5%	1/10W
R783	1-216-864-11	SHORT CHIP	0		
R784	1-216-864-11	SHORT CHIP	0		
R785	1-216-864-11	SHORT CHIP	0		
R786	1-216-864-11	SHORT CHIP	0		
R787	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R788	1-216-864-11	SHORT CHIP	0		
R789	1-216-864-11	SHORT CHIP	0		
R790	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R792	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R793	1-216-864-11	SHORT CHIP	0		

Ref. No.	Part No.	Description			Remark
R1101	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W
R1102	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R1110	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R1114	1-216-801-11	METAL CHIP	22	5%	1/10W
R1115	1-216-864-11	SHORT CHIP	0		
R1120	1-469-118-21	FERRITE, EMI (SMD) (1608)			
R1121	1-469-118-21	FERRITE, EMI (SMD) (1608)			
R1122	1-469-118-21	FERRITE, EMI (SMD) (1608)			
R1123	1-469-118-21	FERRITE, EMI (SMD) (1608)			
R1124	1-469-118-21	FERRITE, EMI (SMD) (1608)			
R1125	1-469-118-21	FERRITE, EMI (SMD) (1608)			
R1129	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1133	1-216-864-11	SHORT CHIP	0		
R1134	1-216-864-11	SHORT CHIP	0		
R1138	1-216-864-11	SHORT CHIP	0		
R1139	1-216-864-11	SHORT CHIP	0		
R1140	1-216-864-11	SHORT CHIP	0		
R1141	1-216-864-11	SHORT CHIP	0		
R1142	1-216-864-11	SHORT CHIP	0		
R1143	1-216-864-11	SHORT CHIP	0		
R1145	1-216-295-91	SHORT CHIP	0		
R1150	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1151	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1152	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1167	1-216-864-11	SHORT CHIP	0		
R1168	1-216-813-11	METAL CHIP	220	5%	1/10W
R1169	1-216-805-11	METAL CHIP	47	5%	1/10W
R1170	1-216-864-11	SHORT CHIP	0		
R1173	1-216-864-11	SHORT CHIP	0		
R1176	1-216-864-11	SHORT CHIP	0		
R1177	1-216-809-11	METAL CHIP	100	5%	1/10W
R1178	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1179	1-216-809-11	METAL CHIP	100	5%	1/10W
R1183	1-216-813-11	METAL CHIP	220	5%	1/10W
R1184	1-216-809-11	METAL CHIP	100	5%	1/10W
R1185	1-216-809-11	METAL CHIP	100	5%	1/10W
R1186	1-216-864-11	SHORT CHIP	0		
R1191	1-216-864-11	SHORT CHIP	0		
R1201	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1400	1-469-118-21	FERRITE, EMI (SMD) (1608)			
R1501	1-216-864-11	SHORT CHIP	0		
R1502	1-216-864-11	SHORT CHIP	0		
R1503	1-216-864-11	SHORT CHIP	0		
R1701	1-216-864-11	SHORT CHIP	0		
R1702	1-216-864-11	SHORT CHIP	0		
R1703	1-216-864-11	SHORT CHIP	0		
R1705	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1706	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1710	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1715	1-216-864-11	SHORT CHIP	0		
R1750	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1751	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2504	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R4501	1-216-864-11	SHORT CHIP	0		
R4502	1-216-864-11	SHORT CHIP	0		
R4503	1-216-864-11	SHORT CHIP	0		
R4504	1-216-864-11	SHORT CHIP	0		

Ref. No.	Part No.	Description			Remark
R4505	1-216-864-11	SHORT CHIP	0		
R4506	1-216-864-11	SHORT CHIP	0		
R4507	1-216-864-11	SHORT CHIP	0		
R4510	1-469-311-22	BEAD, FERRITE (CHIP) (1608)			
R4511	1-469-311-22	BEAD, FERRITE (CHIP) (1608)			
R4512	1-400-244-11	BEAD, FERRITE (CHIP) (1608)			
R4514	1-469-311-22	BEAD, FERRITE (CHIP) (1608)			
R4515	1-469-311-22	BEAD, FERRITE (CHIP) (1608)			
R4516	1-469-311-22	BEAD, FERRITE (CHIP) (1608)			
R4520	1-216-864-11	SHORT CHIP	0		
R4527	1-216-864-11	SHORT CHIP	0		
R4601	1-216-809-11	METAL CHIP	100	5%	1/10W
R4602	1-216-809-11	METAL CHIP	100	5%	1/10W
R4603	1-216-833-11	METAL CHIP	10K	5%	1/10W
R4605	1-216-864-11	SHORT CHIP	0		
R4606	1-216-864-11	SHORT CHIP	0		
R4607	1-216-864-11	SHORT CHIP	0		
R4609	1-216-864-11	SHORT CHIP	0		
R4611	1-216-809-11	METAL CHIP	100	5%	1/10W
R4619	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
R4620	1-216-864-11	SHORT CHIP	0		
R4621	1-216-809-11	METAL CHIP	100	5%	1/10W
R4701	1-216-864-11	SHORT CHIP	0		
R4702	1-216-864-11	SHORT CHIP	0		
R4703	1-216-864-11	SHORT CHIP	0		
R4704	1-216-864-11	SHORT CHIP	0		
R4705	1-216-864-11	SHORT CHIP	0		
R4706	1-216-864-11	SHORT CHIP	0		
R4718	1-216-864-11	SHORT CHIP	0		
R4801	1-216-864-11	SHORT CHIP	0		
R4802	1-216-864-11	SHORT CHIP	0		
R4803	1-216-864-11	SHORT CHIP	0		
R4805	1-216-864-11	SHORT CHIP	0		
		< COMPOSITION CIRCUIT BLOCK >			
RB103	1-234-400-21	CONDUCTOR, NETWORK	(2010X4)		
RB104	1-234-400-21	CONDUCTOR, NETWORK	(2010X4)		
RB105	1-234-371-21	RES, NETWORK	47 (1005X4)		
RB106	1-234-371-21	RES, NETWORK	47 (1005X4)		
RB107	1-234-400-21	CONDUCTOR, NETWORK	(2010X4)		
RB108	1-234-400-21	CONDUCTOR, NETWORK	(2010X4)		
RB109	1-234-400-21	CONDUCTOR, NETWORK	(2010X4)		
RB110	1-234-400-21	CONDUCTOR, NETWORK	(2010X4)		
RB111	1-234-400-21	CONDUCTOR, NETWORK	(2010X4)		
RB112	1-234-400-21	CONDUCTOR, NETWORK	(2010X4)		
RB113	1-234-400-21	CONDUCTOR, NETWORK	(2010X4)		
RB114	1-234-400-21	CONDUCTOR, NETWORK	(2010X4)		
RB115	1-234-400-21	CONDUCTOR, NETWORK	(2010X4)		
RB116	1-234-371-21	RES, NETWORK	47 (1005X4)		
RB117	1-234-371-21	RES, NETWORK	47 (1005X4)		
		< SWITCH >			
S1701	1-771-337-21	SWITCH, SLIDE (NOM, DL)			
		< VIBRATOR >			
X101	1-795-630-11	VIBRATOR, CRYSTAL 27MHz			
X701	1-795-244-11	VIBRATOR, CERAMIC 10MHz			

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Ref. No.	Part No.	Description			Remark
	A-1148-821-A	FL BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C435	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C436	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C800	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C801	1-163-037-11	CERAMIC CHIP	0.022uF	10%	50V
C802	1-119-943-91	ELECT	47uF	20%	50V
C803	1-124-584-00	ELECT	100uF	20%	10V
C804	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C805	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C809	1-126-157-11	ELECT	10uF	20%	16V
C811	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C812	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C813	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C814	1-126-157-11	ELECT	10uF	20%	16V
C815	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C816	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C817	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C818	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C821	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C822	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C823	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C825	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C826	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C829	1-128-131-11	ELECT	22uF	20%	50V
C832	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
		< CONNECTOR >			
CN801	1-779-560-21	CONNECTOR, FFC (LIF (NON-ZIF)) 23P			
CN805	1-785-336-11	PIN, CONNECTOR (LIGHT ANGLE) 10P			
CN811	1-785-336-11	PIN, CONNECTOR (LIGHT ANGLE) 10P			
		< CONNECTOR >			
CNP801	1-785-328-11	PIN, CONNECTOR (LIGHT ANGRE) 2P			
		< DIODE >			
D431	6-501-193-01	DIODE 1SS355WTE-17			
D432	6-501-193-01	DIODE 1SS355WTE-17			
D801	6-501-193-01	DIODE 1SS355WTE-17			
D802	6-501-193-01	DIODE 1SS355WTE-17			
D803	8-719-069-56	DIODE UDZSTE-176.2B			
D804	6-501-193-01	DIODE 1SS355WTE-17			
D805	6-501-193-01	DIODE 1SS355WTE-17			
		< FERRITE BEAD >			
FB806	1-414-813-11	FERRITE, EMI (SMD) (2012)			
		< FLUORESCENT INDICATOR >			
FL801	1-519-852-11	FLUORESCENT INDICATOR			
		< IC >			
IC801	6-600-349-21	IC NJL23H400A			
IC802	8-759-643-83	IC PT6315			

FL **I/O**

Ref. No.	Part No.	Description			Remark
		< SHORT >			
JR807	1-216-296-11	SHORT CHIP	0		
		< COIL >			
L801	1-410-671-31	INDUCTOR	47uH		
L802	1-410-671-31	INDUCTOR	47uH		
		< TRANSISTOR >			
Q801	6-550-065-01	TRANSISTOR	CPH5504-TL-E		
Q802	8-729-120-28	TRANSISTOR	2SC3052EF-T1-LEF		
		< RESISTOR >			
R436	1-216-834-11	METAL CHIP	12K	5%	1/10W
R437	1-216-835-11	METAL CHIP	15K	5%	1/10W
R800	1-216-821-11	METAL CHIP	1K	5%	1/10W
R801	1-216-839-11	METAL CHIP	33K	5%	1/10W
R802	1-216-809-11	METAL CHIP	100	5%	1/10W
R804	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R805	1-216-295-91	SHORT CHIP	0		
R811	1-216-844-11	METAL CHIP	82K	5%	1/10W
R814	1-216-809-11	METAL CHIP	100	5%	1/10W
R815	1-216-809-11	METAL CHIP	100	5%	1/10W
R816	1-216-809-11	METAL CHIP	100	5%	1/10W
R817	1-216-821-11	METAL CHIP	1K	5%	1/10W
R819	1-216-805-11	METAL CHIP	47	5%	1/10W
R820	1-216-845-11	METAL CHIP	100K	5%	1/10W
R823	1-216-805-11	METAL CHIP	47	5%	1/10W
		< TRANSFORMER >			
T801	1-443-645-11	TRANSFORMER, DC CONVERTER			
**********					
	A-1176-128-A	I/O BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C201	1-126-964-11	ELECT	10uF	20%	50V
C202	1-115-156-11	CERAMIC CHIP	1uF		10V
C203	1-115-156-11	CERAMIC CHIP	1uF		10V
C204	1-115-156-11	CERAMIC CHIP	1uF		10V
C205	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C207	1-126-964-11	ELECT	10uF	20%	50V
C208	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C209	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C210	1-126-925-91	ELECT	470uF	20%	10V
C212	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C213	1-126-933-11	ELECT	100uF	20%	16V
C214	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C215	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C216	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C218	1-104-662-91	ELECT	22uF	20%	25V
C219	1-104-662-91	ELECT	22uF	20%	25V
C223	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C224	1-126-916-11	ELECT	1000uF	20%	6.3V
C225	1-126-916-11	ELECT	1000uF	20%	6.3V
C226	1-126-916-11	ELECT	1000uF	20%	6.3V
C227	1-126-933-11	ELECT	100uF	20%	16V

Ref. No.	Part No.	Description			Remark
C228	1-126-933-11	ELECT	100uF	20%	16V
C234	1-126-382-11	ELECT	100uF	20%	16V
C235	1-104-662-91	ELECT	22uF	20%	25V
C236	1-104-662-91	ELECT	22uF	20%	25V
C239	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C242	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C333	1-126-933-11	ELECT	100uF	20%	16V
C334	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C336	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C337	1-104-662-91	ELECT	22uF	20%	25V
C338	1-126-933-11	ELECT	100uF	20%	16V
C339	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C340	1-104-662-91	ELECT	22uF	20%	25V
C341	1-104-662-91	ELECT	22uF	20%	25V
C342	1-104-662-91	ELECT	22uF	20%	25V
C345	1-126-796-11	ELECT	22uF	20%	25V
C346	1-126-796-11	ELECT	22uF	20%	25V
C348	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C349	1-126-796-11	ELECT	22uF	20%	25V
C350	1-126-796-11	ELECT	22uF	20%	25V
C351	1-126-947-11	ELECT	47uF	20%	16V
C352	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C354	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C355	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C356	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C359	1-126-960-11	ELECT	1uF	20%	50V
C360	1-126-960-11	ELECT	1uF	20%	50V
C362	1-104-662-91	ELECT	22uF	20%	25V
		< CONNECTOR >			
CN201	1-779-279-11	CONNECTOR, FFC (LIF (NON-ZIF)) 11P			
CN202	1-779-273-11	CONNECTOR, FFC (LIF (NON-ZIF)) 5P			
CN203	1-568-828-11	CONNECTOR, FFC 9P			
CN311	1-779-283-11	CONNECTOR, FFC (LIF (NON-ZIF)) 15P			
CN312	1-785-317-11	PIN, CONNECTOR (STRAIGHT) 5P			
		< IC >			
IC201	6-705-602-01	IC MM1623BFBE			
IC352	8-759-385-76	IC MC14052 BDR2			
IC353	8-759-100-96	IC NJM4558M-TE2			
IC360	6-703-550-01	IC TA7809LS			
		< JACK >			
J200	1-794-212-11	JACK, PIN 4P (TV, VCR)			
J201	1-694-920-11	TERMINAL BOARD (S TERMINAL+1P) (VIDEO, S VIDEO (DVD ONLY))(MONITOR OUT)			
J202	1-817-601-11	JACK, PIN 3P (Y, CB/PB, CR/PR) (COMPONENT VIDEO OUT)			
		< SHORT >			
JR362	1-216-864-11	SHORT CHIP	0		
JR364	1-216-864-11	SHORT CHIP	0		
		< COIL >			
L201	1-469-525-91	INDUCTOR	10uH		
L202	1-469-525-91	INDUCTOR	10uH		
L352	1-469-525-91	INDUCTOR	10uH		

Ref. No.	Part No.	Description			Remark
		< TRANSISTOR >			
Q353	8-729-027-52	TRANSISTOR	RT1N241C-TP-1		
Q354	8-729-027-52	TRANSISTOR	RT1N241C-TP-1		
Q360	8-729-027-23	TRANSISTOR	RT1P141C-TP-1		
Q361	8-729-120-28	TRANSISTOR	2SC3052EF-T1-LEF		
Q362	8-729-120-28	TRANSISTOR	2SC3052EF-T1-LEF		
		< RESISTOR >			
R204	1-216-821-11	METAL CHIP	1K	5%	1/10W
R207	1-216-864-11	SHORT CHIP	0		
R209	1-216-864-11	SHORT CHIP	0		
R215	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R216	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R219	1-216-841-11	METAL CHIP	47K	5%	1/10W
R220	1-216-841-11	METAL CHIP	47K	5%	1/10W
R224	1-216-841-11	METAL CHIP	47K	5%	1/10W
R225	1-216-841-11	METAL CHIP	47K	5%	1/10W
R228	1-216-833-11	METAL CHIP	10K	5%	1/10W
R229	1-218-285-11	METAL CHIP	75	5%	1/10W
R230	1-218-285-11	METAL CHIP	75	5%	1/10W
R231	1-218-285-11	METAL CHIP	75	5%	1/10W
R232	1-218-285-11	METAL CHIP	75	5%	1/10W
R233	1-218-285-11	METAL CHIP	75	5%	1/10W
R234	1-216-809-11	METAL CHIP	100	5%	1/10W
R235	1-216-809-11	METAL CHIP	100	5%	1/10W
R241	1-218-285-11	METAL CHIP	75	5%	1/10W
R253	1-216-845-11	METAL CHIP	100K	5%	1/10W
R254	1-216-845-11	METAL CHIP	100K	5%	1/10W
R255	1-216-845-11	METAL CHIP	100K	5%	1/10W
R256	1-216-845-11	METAL CHIP	100K	5%	1/10W
R263	1-216-833-11	METAL CHIP	10K	5%	1/10W
R293	1-216-864-11	SHORT CHIP	0		
R330	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R331	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R334	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R338	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R339	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R343	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R344	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R349	1-216-833-11	METAL CHIP	10K	5%	1/10W
R350	1-216-833-11	METAL CHIP	10K	5%	1/10W
R356	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R357	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R358	1-216-841-11	METAL CHIP	47K	5%	1/10W
R359	1-216-817-11	METAL CHIP	470	5%	1/10W
R360	1-216-817-11	METAL CHIP	470	5%	1/10W
R363	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R364	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R365	1-216-841-11	METAL CHIP	47K	5%	1/10W
R366	1-216-841-11	METAL CHIP	47K	5%	1/10W
R367	1-216-821-11	METAL CHIP	1K	5%	1/10W
R368	1-216-833-11	METAL CHIP	10K	5%	1/10W
R369	1-216-821-11	METAL CHIP	1K	5%	1/10W
R370	1-216-833-11	METAL CHIP	10K	5%	1/10W
R374	1-216-841-11	METAL CHIP	47K	5%	1/10W
R375	1-216-821-11	METAL CHIP	1K	5%	1/10W
R376	1-216-864-11	SHORT CHIP	0		
R377	1-216-841-11	METAL CHIP	47K	5%	1/10W
R378	1-216-841-11	METAL CHIP	47K	5%	1/10W
R381	1-216-841-11	METAL CHIP	47K	5%	1/10W
R382	1-216-841-11	METAL CHIP	47K	5%	1/10W
R384	1-216-841-11	METAL CHIP	47K	5%	1/10W
R385	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R386	1-216-841-11	METAL CHIP	47K	5%	1/10W
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	A-1148-824-A	JACK BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C401	1-124-589-11	ELECT	47uF	20%	16V
C403	1-124-584-00	ELECT	100uF	20%	10V
C405	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C410	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C411	1-126-157-11	ELECT	10uF	20%	16V
C412	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C413	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C420	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C421	1-126-157-11	ELECT	10uF	20%	16V
C422	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C423	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C431	1-117-863-11	CERAMIC CHIP	0.47uF	10%	6.3V
C432	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C433	1-162-925-11	CERAMIC CHIP	68PF	5%	50V
C434	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C450	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C460	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C471	1-124-222-91	ELECT	22uF	20%	6.3V
C491	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C493	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C819	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C820	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
		< DIODE >			
D433	6-501-193-01	DIODE 1SS355WTE-17			
D470	6-501-193-01	DIODE 1SS355WTE-17			
D492	6-501-193-01	DIODE 1SS355WTE-17			
D493	6-501-193-01	DIODE 1SS355WTE-17			
D496	6-501-193-01	DIODE 1SS355WTE-17			
D497	6-501-193-01	DIODE 1SS355WTE-17			
		< FERRITE BEAD >			
FB410	1-469-144-21	FERRITE, EMI (SMD) (2012)			
FB420	1-469-144-21	FERRITE, EMI (SMD) (2012)			
FB450	1-216-864-11	SHORT CHIP 0			
FB451	1-469-144-21	FERRITE, EMI (SMD) (2012)			
FB460	1-216-864-11	SHORT CHIP 0			
FB461	1-469-144-21	FERRITE, EMI (SMD) (2012)			
FB470	1-469-144-21	FERRITE, EMI (SMD) (2012)			
FB471	1-469-144-21	FERRITE, EMI (SMD) (2012)			
FB472	1-469-144-21	FERRITE, EMI (SMD) (2012)			
FB474	1-469-144-21	FERRITE, EMI (SMD) (2012)			
FB475	1-469-144-21	FERRITE, EMI (SMD) (2012)			
FB478	1-469-144-21	FERRITE, EMI (SMD) (2012)			
FB479	1-500-284-21	INDUCTOR, FERRITE BEAD			

JACK **LED**

Ref. No.	Part No.	Description			Remark
		< IC >			
IC401	8-759-100-96	IC NJM4558M-TE2			
IC402	8-759-100-96	IC NJM4558M-TE2			
		< JACK >			
J401	1-819-878-11	JACK (AUDIO IN)			
J402	1-819-878-11	JACK (PHONES)			
		< SHORT >			
JR811	1-216-864-11	SHORT CHIP	0		
JR812	1-216-864-11	SHORT CHIP	0		
JR813	1-216-864-11	SHORT CHIP	0		
JR814	1-216-864-11	SHORT CHIP	0		
JR816	1-216-864-11	SHORT CHIP	0		
JR817	1-216-864-11	SHORT CHIP	0		
		< TRANSISTOR >			
Q450	6-550-889-01	TRANSISTOR	2SC5938-T112-1B		
Q451	6-550-889-01	TRANSISTOR	2SC5938-T112-1B		
Q460	6-550-889-01	TRANSISTOR	2SC5938-T112-1B		
Q461	6-550-889-01	TRANSISTOR	2SC5938-T112-1B		
Q470	1-801-806-11	TRANSISTOR	RT1N441C-TP-1		
Q471	8-729-027-23	TRANSISTOR	RT1P141C-TP-1		
Q472	8-729-048-50	TRANSISTOR	2SK3018-T106		
Q473	8-729-027-23	TRANSISTOR	RT1P141C-TP-1		
Q474	8-729-027-24	TRANSISTOR	RT1P140C-TP-1		
Q475	1-801-806-11	TRANSISTOR	RT1N441C-TP-1		
Q476	8-729-027-44	TRANSISTOR	RT1N140C-TP-1		
		< RESISTOR >			
R401	1-218-707-11	METAL CHIP	4.3K	5%	1/10W
R402	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R410	1-216-845-11	METAL CHIP	100K	5%	1/10W
R411	1-216-817-11	METAL CHIP	470	5%	1/10W
R412	1-216-837-11	METAL CHIP	22K	5%	1/10W
R413	1-216-821-11	METAL CHIP	1K	5%	1/10W
R414	1-216-835-11	METAL CHIP	15K	5%	1/10W
R415	1-216-821-11	METAL CHIP	1K	5%	1/10W
R420	1-216-845-11	METAL CHIP	100K	5%	1/10W
R421	1-216-817-11	METAL CHIP	470	5%	1/10W
R422	1-216-837-11	METAL CHIP	22K	5%	1/10W
R423	1-216-821-11	METAL CHIP	1K	5%	1/10W
R424	1-216-821-11	METAL CHIP	1K	5%	1/10W
R431	1-216-864-11	SHORT CHIP	0		
R432	1-216-837-11	METAL CHIP	22K	5%	1/10W
R433	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R434	1-216-864-11	SHORT CHIP	0		
R435	1-216-857-11	METAL CHIP	1M	5%	1/10W
R450	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R451	1-216-801-11	METAL CHIP	22	5%	1/10W
R452	1-216-805-11	METAL CHIP	47	5%	1/10W
R453	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R454	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R460	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R461	1-216-801-11	METAL CHIP	22	5%	1/10W
R462	1-216-805-11	METAL CHIP	47	5%	1/10W

Ref. No.	Part No.	Description			Remark
R463	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R464	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R470	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R471	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R472	1-216-819-11	METAL CHIP	680	5%	1/10W
R477	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R478	1-216-813-11	METAL CHIP	220	5%	1/10W
R479	1-216-864-11	SHORT CHIP	0		
R480	1-216-804-11	METAL CHIP	39	5%	1/10W
R481	1-216-845-11	METAL CHIP	100K	5%	1/10W
R482	1-216-833-11	METAL CHIP	10K	5%	1/10W
R487	1-216-864-11	SHORT CHIP	0		
R488	1-216-845-11	METAL CHIP	100K	5%	1/10W
R492	1-216-864-11	SHORT CHIP	0		
R495	1-216-864-11	SHORT CHIP	0		
		< SWITCH >			
S800	1-418-725-51	ENCODER, ROTARY (12 TYPE) (– ↷ + VOLUME)			
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	A-1148-823-A	LED BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C849	1-164-360-11	CERAMIC CHIP	0.1uF		16V
		< DIODE >			
D811	8-719-056-13	DIODE SML79423C-TP15 (DISC 1)			
D812	8-719-056-13	DIODE SML79423C-TP15 (DISC 2)			
D813	8-719-056-13	DIODE SML79423C-TP15 (DISC 3)			
D814	8-719-056-13	DIODE SML79423C-TP15 (DISC 4)			
D815	8-719-056-13	DIODE SML79423C-TP15 (DISC 5)			
		< IC >			
IC803	6-704-046-01	IC BU2099FV			
		< TRANSISTOR >			
Q811	8-729-027-23	TRANSISTOR	RT1P141C-TP-1		
Q812	8-729-027-23	TRANSISTOR	RT1P141C-TP-1		
Q813	8-729-027-23	TRANSISTOR	RT1P141C-TP-1		
Q814	8-729-027-23	TRANSISTOR	RT1P141C-TP-1		
Q815	8-729-027-23	TRANSISTOR	RT1P141C-TP-1		
Q816	8-729-027-23	TRANSISTOR	RT1P141C-TP-1		
Q817	8-729-027-23	TRANSISTOR	RT1P141C-TP-1		
Q818	8-729-027-23	TRANSISTOR	RT1P141C-TP-1		
Q819	8-729-027-23	TRANSISTOR	RT1P141C-TP-1		
Q820	8-729-027-23	TRANSISTOR	RT1P141C-TP-1		
		< RESISTOR >			
R806	1-216-809-11	METAL CHIP	100	5%	1/10W
R807	1-216-809-11	METAL CHIP	100	5%	1/10W
R808	1-216-809-11	METAL CHIP	100	5%	1/10W
R827	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R828	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R829	1-216-833-11	METAL CHIP	10K	5%	1/10W
R830	1-216-837-11	METAL CHIP	22K	5%	1/10W
R831	1-216-817-11	METAL CHIP	470	5%	1/10W

Ref. No.	Part No.	Description			Remark
R832	1-216-815-11	METAL CHIP	330	5%	1/10W
R833	1-216-817-11	METAL CHIP	470	5%	1/10W
R834	1-216-815-11	METAL CHIP	330	5%	1/10W
R835	1-216-817-11	METAL CHIP	470	5%	1/10W
R836	1-216-815-11	METAL CHIP	330	5%	1/10W
R837	1-216-817-11	METAL CHIP	470	5%	1/10W
R838	1-216-815-11	METAL CHIP	330	5%	1/10W
R839	1-216-817-11	METAL CHIP	470	5%	1/10W
R840	1-216-815-11	METAL CHIP	330	5%	1/10W
R841	1-216-841-11	METAL CHIP	47K	5%	1/10W
R851	1-216-821-11	METAL CHIP	1K	5%	1/10W
R852	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R853	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R854	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R855	1-216-821-11	METAL CHIP	1K	5%	1/10W
R856	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R857	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
		< SWITCH >			
S802	1-762-875-21	SWITCH, KEYBOARD (FUNCTION)			
S803	1-762-875-21	SWITCH, KEYBOARD (I◄◄)			
S804	1-762-875-21	SWITCH, KEYBOARD (II)			
S805	1-762-875-21	SWITCH, KEYBOARD (■)			
S806	1-762-875-21	SWITCH, KEYBOARD (►►I)			
S807	1-762-875-21	SWITCH, KEYBOARD (⏏)			
S808	1-762-875-21	SWITCH, KEYBOARD (▷)			
S809	1-762-875-21	SWITCH, KEYBOARD (DISC 5)			
S810	1-762-875-21	SWITCH, KEYBOARD (DISC 4)			
S811	1-762-875-21	SWITCH, KEYBOARD (DISC 3)			
S812	1-762-875-21	SWITCH, KEYBOARD (DISC 2)			
S813	1-762-875-21	SWITCH, KEYBOARD (DISC 1)			
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	A-1148-794-A	MAIN BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C501	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C502	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C503	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C504	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C505	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C506	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C507	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C508	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C509	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C510	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C511	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C515	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C516	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C517	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C518	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C519	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C520	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C521	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C522	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C523	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C524	1-126-947-11	ELECT	47uF	20%	16V

Ref. No.	Part No.	Description			Remark
C525	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C526	1-104-658-91	ELECT	100uF	20%	10V
C527	1-104-656-11	ELECT	2200uF	20%	6.3V
C528	1-104-658-91	ELECT	100uF	20%	10V
C529	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C531	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C532	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C533	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C534	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C535	1-126-947-11	ELECT	47uF	20%	16V
C536	1-126-947-11	ELECT	47uF	20%	16V
C537	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C538	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C621	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C622	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C623	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C624	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C625	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3000	1-126-933-11	ELECT	100uF	20%	16V
C3001	1-126-947-11	ELECT	47uF	20%	16V
C3002	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C3011	1-126-947-11	ELECT	47uF	20%	16V
C3012	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3013	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3014	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3015	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3016	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3017	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3018	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3019	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3020	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3021	1-126-947-11	ELECT	47uF	20%	16V
C3022	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3023	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3024	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3025	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3026	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3027	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3028	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3029	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3030	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3031	1-126-947-11	ELECT	47uF	20%	16V
C3032	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3033	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3034	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3035	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3036	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3037	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3038	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3039	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3040	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3051	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C3052	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C3053	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3054	1-126-933-11	ELECT	100uF	20%	16V
C3055	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C3056	1-126-923-91	ELECT	220uF	20%	10V
C3057	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V

MAIN

Ref. No.	Part No.	Description			Remark
C3058	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V
C3059	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3060	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C3067	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C3068	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C3069	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C3070	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3071	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3072	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3073	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3075	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C3081	1-126-925-91	ELECT	470uF	20%	10V
C3082	1-126-925-91	ELECT	470uF	20%	10V
C3083	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C3084	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C3085	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C3086	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C3087	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C3088	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C3089	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3090	1-104-658-91	ELECT	100uF	20%	10V
C3091	1-126-934-11	ELECT	220uF	20%	16V
C3092	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3094	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C3095	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3100	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3103	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C3104	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3105	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C3106	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C3107	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C3108	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3109	1-112-246-11	ELECT	100uF	20%	35V
C3112	1-112-246-11	ELECT	100uF	20%	35V
C3113	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3114	1-136-177-00	FILM	1uF	5%	50V
C3115	1-136-177-00	FILM	1uF	5%	50V
C3116	1-112-831-11	ELECT	2200uF	20%	35V
C3117	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3118	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3119	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3120	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3121	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C3122	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3123	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3150	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3153	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C3154	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3155	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C3156	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C3157	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C3158	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3159	1-112-246-11	ELECT	100uF	20%	35V
C3162	1-112-246-11	ELECT	100uF	20%	35V
C3163	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3164	1-136-177-00	FILM	1uF	5%	50V
C3165	1-136-177-00	FILM	1uF	5%	50V

Ref. No.	Part No.	Description			Remark
C3166	1-112-831-11	ELECT	2200uF	20%	35V
C3167	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3168	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3169	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3170	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3171	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C3172	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3173	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3200	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3203	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C3204	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3205	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C3206	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C3207	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C3208	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3209	1-112-246-11	ELECT	100uF	20%	35V
C3212	1-112-246-11	ELECT	100uF	20%	35V
C3213	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3214	1-136-177-00	FILM	1uF	5%	50V
C3215	1-136-177-00	FILM	1uF	5%	50V
C3216	1-112-831-11	ELECT	2200uF	20%	35V
C3217	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3218	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3219	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3220	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3221	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C3222	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3223	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3250	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3253	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C3254	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3255	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C3256	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C3257	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C3258	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3259	1-112-246-11	ELECT	100uF	20%	35V
C3262	1-112-246-11	ELECT	100uF	20%	35V
C3263	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3264	1-136-177-00	FILM	1uF	5%	50V
C3265	1-136-177-00	FILM	1uF	5%	50V
C3266	1-112-831-11	ELECT	2200uF	20%	35V
C3267	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3268	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3269	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3270	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3271	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C3272	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3273	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3300	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3303	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C3304	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3305	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C3306	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C3307	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C3308	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3309	1-112-246-11	ELECT	100uF	20%	35V
C3312	1-112-246-11	ELECT	100uF	20%	35V
C3313	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V

Ref. No.	Part No.	Description			Remark
C3314	1-136-177-00	FILM	1uF	5%	50V
C3315	1-136-177-00	FILM	1uF	5%	50V
C3316	1-112-831-11	ELECT	2200uF	20%	35V
C3317	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3318	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3319	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3320	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3321	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C3322	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3323	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3400	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3403	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C3404	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3405	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C3406	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C3407	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C3408	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3409	1-112-246-11	ELECT	100uF	20%	35V
C3412	1-112-246-11	ELECT	100uF	20%	35V
C3413	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3414	1-136-177-00	FILM	1uF	5%	50V
C3415	1-136-177-00	FILM	1uF	5%	50V
C3416	1-112-831-11	ELECT	2200uF	20%	35V
C3417	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3418	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3419	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3420	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3421	1-117-370-11	CERAMIC CHIP	10uF		10V
C3422	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3423	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3500	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3503	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C3504	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3505	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C3506	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C3507	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C3508	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3509	1-112-246-11	ELECT	100uF	20%	35V
C3512	1-112-246-11	ELECT	100uF	20%	35V
C3513	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3514	1-136-177-00	FILM	1uF	5%	50V
C3515	1-136-177-00	FILM	1uF	5%	50V
C3516	1-112-831-11	ELECT	2200uF	20%	35V
C3517	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3518	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3519	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3520	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3551	1-126-960-11	ELECT	1uF	20%	50V
C3552	1-126-964-11	ELECT	10uF	20%	50V
C3555	1-163-038-91	CERAMIC CHIP	0.1uF	25V	
		< CONNECTOR >			
CN501	1-793-991-11	CONNECTOR, FFC/FPC 23P			
CN502	1-506-469-11	PIN, CONNECTOR 4P			
CN503	1-784-368-11	CONNECTOR, FFC/FPC 9P			
CN504	1-784-370-21	CONNECTOR, FFC/FPC 11P			
* CN506	1-564-714-11	PIN, CONNECTOR (SMALL TYPE) 12P			

Ref. No.	Part No.	Description	Remark
CN601	1-784-374-21	CONNECTOR, FFC/FPC 15P	
CN622	1-778-692-11	CONNECTOR, FFC/FPC 21P	
CN701	1-779-277-11	CONNECTOR, FFC (LIF (NON-ZIF)) 9P	
CN3000	1-564-704-41	PIN, CONNECTOR (SMALL TYPE) 2P	
CN3001	1-506-469-11	PIN, CONNECTOR 4P	
CN3002	1-785-101-11	PIN, CONNECTOR (3.96mm PITCH) 3P	
		< DIODE >	
D501	6-501-193-01	DIODE 1SS355WTE-17	
D502	6-501-193-01	DIODE 1SS355WTE-17	
D504	6-501-193-01	DIODE 1SS355WTE-17	
D3071	6-501-193-01	DIODE 1SS355WTE-17	
D3072	6-501-193-01	DIODE 1SS355WTE-17	
D3073	6-501-193-01	DIODE 1SS355WTE-17	
D3111	6-500-885-01	DIODE P6SMBJ33A-5	
D3112	6-500-885-01	DIODE P6SMBJ33A-5	
D3151	6-500-885-01	DIODE P6SMBJ33A-5	
D3152	6-500-885-01	DIODE P6SMBJ33A-5	
D3201	6-500-885-01	DIODE P6SMBJ33A-5	
D3202	6-500-885-01	DIODE P6SMBJ33A-5	
D3251	6-500-885-01	DIODE P6SMBJ33A-5	
D3252	6-500-885-01	DIODE P6SMBJ33A-5	
D3301	6-500-885-01	DIODE P6SMBJ33A-5	
D3302	6-500-885-01	DIODE P6SMBJ33A-5	
D3401	6-500-885-01	DIODE P6SMBJ33A-5	
D3402	6-500-885-01	DIODE P6SMBJ33A-5	
D3501	6-500-885-01	DIODE P6SMBJ33A-5	
D3502	6-500-885-01	DIODE P6SMBJ33A-5	
D3551	6-501-193-01	DIODE 1SS355WTE-17	
D3552	6-501-193-01	DIODE 1SS355WTE-17	
		< GROUND TERMINAL BOARD >	
EB501	1-537-770-21	TERMINAL BOARD, GROUND	
EB505	1-537-770-21	TERMINAL BOARD, GROUND	
EB701	1-537-770-21	TERMINAL BOARD, GROUND	
EB702	1-537-770-21	TERMINAL BOARD, GROUND	
EB703	1-537-770-21	TERMINAL BOARD, GROUND	
EB3001	1-537-770-21	TERMINAL BOARD, GROUND	
EB3002	1-537-770-21	TERMINAL BOARD, GROUND	
EB3003	1-537-770-21	TERMINAL BOARD, GROUND	
EB3004	1-537-770-21	TERMINAL BOARD, GROUND	
EB3005	1-537-770-21	TERMINAL BOARD, GROUND	
		< FERRITE BEAD >	
FB501	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB502	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB503	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB504	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB505	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB506	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB507	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB508	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB509	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB510	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB3051	1-216-295-91	SHORT CHIP 0	

Ref. No.	Part No.	Description	Remark
		< FLUORESCENT INDICATOR >	
FL501	1-233-893-21	FILTER, CHIP EMI	
FL502	1-234-177-21	FILTER, CHIP EMI	
FL503	1-234-177-21	FILTER, CHIP EMI	
		< IC >	
IC501	6-806-094-01	IC M30622MEP-A61FPU0	
IC502	6-702-302-01	IC TK11133CSCL-G	
IC503	6-708-922-01	IC PST3635NR	
IC504	6-709-034-01	IC NJM2887DL3 (TE2)	
IC621	6-707-095-01	IC BH2210FV-E2	
IC622	6-707-095-01	IC BH2210FV-E2	
IC3001	8-759-710-97	IC NJM4565M (TE2)	
IC3003	8-759-680-48	IC TC7WH157FK (TE85R)	
IC3010	6-707-939-01	IC CXD9843AR	
IC3020	6-707-939-01	IC CXD9843AR	
IC3030	6-707-939-01	IC CXD9843AR	
IC3050	6-702-300-01	IC TK11118CSCL-G	
IC3051	8-759-649-50	IC SN74AHC1GU04DCKR	
IC3100	6-708-921-01	IC CXD9883M	
IC3150	6-708-921-01	IC CXD9883M	
IC3200	6-708-921-01	IC CXD9883M	
IC3250	6-708-921-01	IC CXD9883M	
IC3300	6-708-921-01	IC CXD9883M	
IC3400	6-708-921-01	IC CXD9883M	
IC3500	6-708-921-01	IC CXD9883M	
		< SHORT >	
JC502	1-216-864-11	SHORT CHIP 0	
JC525	1-216-864-11	SHORT CHIP 0	
		< COIL >	
L3000	1-469-527-91	INDUCTOR 47uH	
L3051	1-414-754-11	INDUCTOR 10uH	
L3052	1-414-754-11	INDUCTOR 10uH	
L3053	1-414-754-11	INDUCTOR 10uH	
L3054	1-412-939-11	INDUCTOR 1uH	
L3111	1-456-680-11	INDUCTOR 10uH	
L3112	1-456-680-11	INDUCTOR 10uH	
L3151	1-456-680-11	INDUCTOR 10uH	
L3152	1-456-680-11	INDUCTOR 10uH	
L3201	1-456-680-11	INDUCTOR 10uH	
L3202	1-456-680-11	INDUCTOR 10uH	
L3251	1-456-680-11	INDUCTOR 10uH	
L3252	1-456-680-11	INDUCTOR 10uH	
L3301	1-456-680-11	INDUCTOR 10uH	
L3302	1-456-680-11	INDUCTOR 10uH	
L3401	1-456-680-11	INDUCTOR 10uH	
L3402	1-456-680-11	INDUCTOR 10uH	
L3501	1-456-680-11	INDUCTOR 10uH	
L3502	1-456-680-11	INDUCTOR 10uH	
		< TRANSISTOR >	
Q503	8-729-120-28	TRANSISTOR 2SC3052EF-T1-LEF	
Q504	6-550-718-01	TRANSISTOR RSR025N03TL	
Q3000	8-729-142-48	TRANSISTOR 2SD1616-TP-LK	
Q3001	8-729-120-28	TRANSISTOR 2SC3052EF-T1-LEF	
Q3002	8-729-120-28	TRANSISTOR 2SC3052EF-T1-LEF	

Ref. No.	Part No.	Description	Remark
Q3081	8-729-027-23	TRANSISTOR RT1P141C-TP-1	
Q3101	8-729-600-22	TRANSISTOR 2SA1235TP-1EF	
Q3102	8-729-600-22	TRANSISTOR 2SA1235TP-1EF	
Q3151	8-729-600-22	TRANSISTOR 2SA1235TP-1EF	
Q3152	8-729-600-22	TRANSISTOR 2SA1235TP-1EF	
Q3201	8-729-600-22	TRANSISTOR 2SA1235TP-1EF	
Q3202	8-729-600-22	TRANSISTOR 2SA1235TP-1EF	
Q3251	8-729-600-22	TRANSISTOR 2SA1235TP-1EF	
Q3252	8-729-600-22	TRANSISTOR 2SA1235TP-1EF	
Q3301	8-729-600-22	TRANSISTOR 2SA1235TP-1EF	
Q3302	8-729-600-22	TRANSISTOR 2SA1235TP-1EF	
Q3401	8-729-600-22	TRANSISTOR 2SA1235TP-1EF	
Q3402	8-729-600-22	TRANSISTOR 2SA1235TP-1EF	
Q3551	8-729-120-28	TRANSISTOR 2SC3052EF-T1-LEF	
		< RESISTOR >	
R501	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R502	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R503	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R504	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R505	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R506	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R507	1-216-827-11	METAL CHIP 3.3K 5% 1/10W	
R508	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R509	1-216-809-11	METAL CHIP 100 5% 1/10W	
R510	1-216-833-11	METAL CHIP 10K 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	1-216-809-11	METAL CHIP 100 5% 1/10W	
R514	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R515	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R516	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R517	1-216-809-11	METAL CHIP 100 5% 1/10W	
R518	1-216-809-11	METAL CHIP 100 5% 1/10W	
R519	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R520	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R521	1-216-809-11	METAL CHIP 100 5% 1/10W	
R524	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R526	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R527	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R528	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R529	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R530	1-216-809-11	METAL CHIP 100 5% 1/10W	
R531	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R532	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R533	1-216-809-11	METAL CHIP 100 5% 1/10W	
R534	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R535	1-216-809-11	METAL CHIP 100 5% 1/10W	
R536	1-216-864-11	SHORT CHIP 0	
R539	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R540	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R541	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R543	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R544	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R546	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R549	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R550	1-216-821-11	METAL CHIP 1K 5% 1/10W	

Ref. No.	Part No.	Description			Remark
R552	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R554	1-216-833-11	METAL CHIP	10K	5%	1/10W
R556	1-216-841-11	METAL CHIP	47K	5%	1/10W
R557	1-216-841-11	METAL CHIP	47K	5%	1/10W
R558	1-216-833-11	METAL CHIP	10K	5%	1/10W
R559	1-216-833-11	METAL CHIP	10K	5%	1/10W
R560	1-216-833-11	METAL CHIP	10K	5%	1/10W
R561	1-216-845-11	METAL CHIP	100K	5%	1/10W
R562	1-216-841-11	METAL CHIP	47K	5%	1/10W
R563	1-216-833-11	METAL CHIP	10K	5%	1/10W
R564	1-216-809-11	METAL CHIP	100	5%	1/10W
R565	1-216-809-11	METAL CHIP	100	5%	1/10W
R566	1-216-809-11	METAL CHIP	100	5%	1/10W
R567	1-216-809-11	METAL CHIP	100	5%	1/10W
R568	1-216-809-11	METAL CHIP	100	5%	1/10W
R569	1-216-809-11	METAL CHIP	100	5%	1/10W
R572	1-218-751-11	METAL CHIP	300K	5%	1/10W
R573	1-216-845-11	METAL CHIP	100K	5%	1/10W
R575	1-216-821-11	METAL CHIP	1K	5%	1/10W
R576	1-216-821-11	METAL CHIP	1K	5%	1/10W
R577	1-216-841-11	METAL CHIP	47K	5%	1/10W
R578	1-216-809-11	METAL CHIP	100	5%	1/10W
R579	1-216-809-11	METAL CHIP	100	5%	1/10W
R580	1-216-809-11	METAL CHIP	100	5%	1/10W
R584	1-216-809-11	METAL CHIP	100	5%	1/10W
R585	1-216-809-11	METAL CHIP	100	5%	1/10W
R586	1-216-809-11	METAL CHIP	100	5%	1/10W
R587	1-216-809-11	METAL CHIP	100	5%	1/10W
R588	1-216-809-11	METAL CHIP	100	5%	1/10W
R589	1-216-809-11	METAL CHIP	100	5%	1/10W
R601	1-216-864-11	SHORT CHIP	0		
R604	1-216-809-11	METAL CHIP	100	5%	1/10W
R605	1-216-809-11	METAL CHIP	100	5%	1/10W
R606	1-216-809-11	METAL CHIP	100	5%	1/10W
R607	1-216-809-11	METAL CHIP	100	5%	1/10W
R608	1-216-809-11	METAL CHIP	100	5%	1/10W
R609	1-216-809-11	METAL CHIP	100	5%	1/10W
R610	1-216-809-11	METAL CHIP	100	5%	1/10W
R611	1-216-809-11	METAL CHIP	100	5%	1/10W
R612	1-216-809-11	METAL CHIP	100	5%	1/10W
R613	1-216-809-11	METAL CHIP	100	5%	1/10W
R614	1-216-809-11	METAL CHIP	100	5%	1/10W
R621	1-216-809-11	METAL CHIP	100	5%	1/10W
R622	1-216-833-11	METAL CHIP	10K	5%	1/10W
R623	1-216-809-11	METAL CHIP	100	5%	1/10W
R628	1-216-809-11	METAL CHIP	100	5%	1/10W
R629	1-216-813-11	METAL CHIP	220	5%	1/10W
R630	1-216-813-11	METAL CHIP	220	5%	1/10W
R631	1-216-813-11	METAL CHIP	220	5%	1/10W
R632	1-216-809-11	METAL CHIP	100	5%	1/10W
R633	1-216-809-11	METAL CHIP	100	5%	1/10W
R634	1-216-813-11	METAL CHIP	220	5%	1/10W
R635	1-216-833-11	METAL CHIP	10K	5%	1/10W
R691	1-216-864-11	SHORT CHIP	0		
R692	1-216-864-11	SHORT CHIP	0		
R693	1-216-864-11	SHORT CHIP	0		
R694	1-216-864-11	SHORT CHIP	0		
R695	1-216-864-11	SHORT CHIP	0		

Ref. No.	Part No.	Description			Remark
R696	1-216-864-11	SHORT CHIP	0		
R701	1-216-813-11	METAL CHIP	220	5%	1/10W
R702	1-216-864-11	SHORT CHIP	0		
R3001	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3002	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3003	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R3004	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R3006	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3011	1-216-817-11	METAL CHIP	470	5%	1/10W
R3012	1-216-817-11	METAL CHIP	470	5%	1/10W
R3013	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3014	1-216-809-11	METAL CHIP	100	5%	1/10W
R3015	1-216-809-11	METAL CHIP	100	5%	1/10W
R3017	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R3021	1-216-817-11	METAL CHIP	470	5%	1/10W
R3022	1-216-817-11	METAL CHIP	470	5%	1/10W
R3023	1-216-809-11	METAL CHIP	100	5%	1/10W
R3024	1-216-809-11	METAL CHIP	100	5%	1/10W
R3026	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R3031	1-216-817-11	METAL CHIP	470	5%	1/10W
R3032	1-216-817-11	METAL CHIP	470	5%	1/10W
R3033	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3034	1-216-809-11	METAL CHIP	100	5%	1/10W
R3035	1-216-809-11	METAL CHIP	100	5%	1/10W
R3037	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R3050	1-216-864-11	SHORT CHIP	0		
R3052	1-216-857-11	METAL CHIP	1M	5%	1/10W
R3053	1-216-809-11	METAL CHIP	100	5%	1/10W
R3054	1-216-801-11	METAL CHIP	22	5%	1/10W
R3055	1-216-809-11	METAL CHIP	100	5%	1/10W
R3057	1-216-864-11	METAL CHIP	100	5%	1/10W
R3059	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3060	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3061	1-216-864-11	SHORT CHIP	0		
R3062	1-216-809-11	METAL CHIP	100	5%	1/10W
R3063	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3064	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3065	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3066	1-216-809-11	METAL CHIP	100	5%	1/10W
R3067	1-216-809-11	METAL CHIP	100	5%	1/10W
R3068	1-216-809-11	METAL CHIP	100	5%	1/10W
R3069	1-216-809-11	METAL CHIP	100	5%	1/10W
R3070	1-216-809-11	METAL CHIP	100	5%	1/10W
R3071	1-216-809-11	METAL CHIP	100	5%	1/10W
R3072	1-216-809-11	METAL CHIP	100	5%	1/10W
R3073	1-216-809-11	METAL CHIP	100	5%	1/10W
R3075	1-216-809-11	METAL CHIP	100	5%	1/10W
R3076	1-216-809-11	METAL CHIP	100	5%	1/10W
R3077	1-216-809-11	METAL CHIP	100	5%	1/10W
R3078	1-216-809-11	METAL CHIP	100	5%	1/10W
R3079	1-216-809-11	METAL CHIP	100	5%	1/10W
R3080	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3085	1-216-839-11	METAL CHIP	33K	5%	1/10W
R3086	1-216-839-11	METAL CHIP	33K	5%	1/10W
R3087	1-216-837-11	METAL CHIP	22K	5%	1/10W
R3088	1-216-837-11	METAL CHIP	22K	5%	1/10W
R3089	1-216-837-11	METAL CHIP	22K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R3090	1-216-837-11	METAL CHIP	22K	5%	1/10W
R3091	1-216-837-11	METAL CHIP	22K	5%	1/10W
R3092	1-216-837-11	METAL CHIP	22K	5%	1/10W
R3093	1-216-837-11	METAL CHIP	22K	5%	1/10W
R3094	1-216-837-11	METAL CHIP	22K	5%	1/10W
R3095	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3096	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3097	1-216-809-11	METAL CHIP	100	5%	1/10W
R3098	1-216-837-11	METAL CHIP	22K	5%	1/10W
R3099	1-216-837-11	METAL CHIP	22K	5%	1/10W
R3101	1-216-809-11	METAL CHIP	100	5%	1/10W
R3102	1-216-809-11	METAL CHIP	100	5%	1/10W
R3103	1-216-797-11	METAL CHIP	10	5%	1/10W
R3104	1-216-864-11	SHORT CHIP	0		
R3107	1-216-835-11	METAL CHIP	15K	5%	1/10W
R3115	1-216-797-11	METAL CHIP	10	5%	1/10W
R3116	1-216-797-11	METAL CHIP	10	5%	1/10W
R3119	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R3120	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R3121	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3122	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3123	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3124	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3125	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3126	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3127	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3151	1-216-809-11	METAL CHIP	100	5%	1/10W
R3152	1-216-809-11	METAL CHIP	100	5%	1/10W
R3153	1-216-797-11	METAL CHIP	10	5%	1/10W
R3154	1-216-864-11	SHORT CHIP	0		
R3157	1-216-835-11	METAL CHIP	15K	5%	1/10W
R3165	1-216-797-11	METAL CHIP	10	5%	1/10W
R3166	1-216-797-11	METAL CHIP	10	5%	1/10W
R3169	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R3170	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R3171	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3172	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3173	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3174	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3175	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3176	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3177	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3201	1-216-809-11	METAL CHIP	100	5%	1/10W
R3202	1-216-809-11	METAL CHIP	100	5%	1/10W
R3203	1-216-797-11	METAL CHIP	10	5%	1/10W
R3204	1-216-864-11	SHORT CHIP	0		
R3207	1-216-835-11	METAL CHIP	15K	5%	1/10W
R3215	1-216-797-11	METAL CHIP	10	5%	1/10W
R3216	1-216-797-11	METAL CHIP	10	5%	1/10W
R3219	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R3220	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R3221	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3222	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3223	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3224	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3225	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3226	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3227	1-216-845-11	METAL CHIP	100K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R3251	1-216-809-11	METAL CHIP	100	5%	1/10W
R3252	1-216-809-11	METAL CHIP	100	5%	1/10W
R3253	1-216-797-11	METAL CHIP	10	5%	1/10W
R3254	1-216-864-11	SHORT CHIP	0		
R3257	1-216-835-11	METAL CHIP	15K	5%	1/10W
R3265	1-216-797-11	METAL CHIP	10	5%	1/10W
R3266	1-216-797-11	METAL CHIP	10	5%	1/10W
R3269	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R3270	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R3271	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3272	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3273	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3274	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3275	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3276	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3277	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3301	1-216-809-11	METAL CHIP	100	5%	1/10W
R3302	1-216-809-11	METAL CHIP	100	5%	1/10W
R3303	1-216-797-11	METAL CHIP	10	5%	1/10W
R3304	1-216-864-11	SHORT CHIP	0		
R3307	1-216-835-11	METAL CHIP	15K	5%	1/10W
R3315	1-216-797-11	METAL CHIP	10	5%	1/10W
R3316	1-216-797-11	METAL CHIP	10	5%	1/10W
R3319	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R3320	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R3321	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3322	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3323	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3324	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3325	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3326	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3327	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3401	1-216-809-11	METAL CHIP	100	5%	1/10W
R3402	1-216-809-11	METAL CHIP	100	5%	1/10W
R3403	1-216-797-11	METAL CHIP	10	5%	1/10W
R3404	1-216-864-11	SHORT CHIP	0		
R3407	1-216-835-11	METAL CHIP	15K	5%	1/10W
R3415	1-216-797-11	METAL CHIP	10	5%	1/10W
R3416	1-216-797-11	METAL CHIP	10	5%	1/10W
R3419	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R3420	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R3421	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3422	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3423	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3424	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3425	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3426	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3427	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3501	1-216-809-11	METAL CHIP	100	5%	1/10W
R3502	1-216-809-11	METAL CHIP	100	5%	1/10W
R3503	1-216-797-11	METAL CHIP	10	5%	1/10W
R3504	1-216-864-11	SHORT CHIP	0		
R3507	1-216-835-11	METAL CHIP	15K	5%	1/10W
R3515	1-216-797-11	METAL CHIP	10	5%	1/10W
R3516	1-216-797-11	METAL CHIP	10	5%	1/10W
R3519	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R3520	1-216-136-00	RES-CHIP	2.7	5%	1/8W

Ref. No.	Part No.	Description			Remark
R3551	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3553	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3554	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3555	1-216-864-11	SHORT CHIP	0		
R4002	1-216-864-11	SHORT CHIP	0		
		< NETWORK RESISTOR >			
RB621	1-233-576-11	RES, CHIP NETWORK	100 (3216)		
RB622	1-233-576-11	RES, CHIP NETWORK	100 (3216)		
RB623	1-233-411-11	RES, CHIP NETWORK	220 (3216)		
RB624	1-233-411-11	RES, CHIP NETWORK	220 (3216)		
RB625	1-233-411-11	RES, CHIP NETWORK	220 (3216)		
RB626	1-233-411-11	RES, CHIP NETWORK	220 (3216)		
RB627	1-236-908-11	RES, CHIP NETWORK	10K (3216)		
RB628	1-236-908-11	RES, CHIP NETWORK	10K (3216)		
RB629	1-236-908-11	RES, CHIP NETWORK	10K (3216)		
RB630	1-236-908-11	RES, CHIP NETWORK	10K (3216)		
		< VIBRATOR >			
X501	1-795-058-21	VIBRATOR, CERAMIC 5MHz			
X3051	1-795-660-21	QUARTZ CRYSTAL UNIT 49.152MHz			
**********					
		MOTOR BOARD			
		**********			
		< SWITCH >			
S761	1-786-704-11	SWITCH, LEVER (SUB TRAY OUT)			
**********					
	A-1146-005-A	POWER BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
⚠C901	1-165-529-11	MYLAR	0.22uF	10	275V
⚠C902	1-165-529-11	MYLAR	0.22uF	10	275V
⚠C903	1-112-330-11	ELECT (BLOCK)	1000uF	20%	200V
⚠C905	1-112-334-91	FILM	0.01uF	5%	400V
⚠C906	1-117-828-11	CAP, METALIZED PP FILM	3300PF		
⚠C907	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
⚠C908	1-107-909-11	ELECT	47uF	20%	35V
⚠C909	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
⚠C910	1-107-906-11	ELECT	10uF	20%	50V
⚠C911	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
⚠C913	1-117-693-11	CERAMIC	100PF	10%	250V
⚠C918	1-113-925-11	CERAMIC	0.01uF	20%	250V
⚠C920	1-113-925-11	CERAMIC	0.01uF	20%	250V
⚠C922	1-128-560-11	ELECT	22uF	20%	100V
⚠C923	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
⚠C924	1-126-961-11	ELECT	2.2uF	20%	50V
⚠C925	1-107-974-81	CERAMIC	47PF	5%	2KV
⚠C928	1-113-896-11	CERAMIC	220PF	10%	250V
⚠C929	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
⚠C930	1-117-693-11	CERAMIC	100PF	10%	250V
C932	1-100-924-21	ELECT	2200uF	20%	35V
C933	1-100-924-21	ELECT	2200uF	20%	35V
C934	1-112-831-11	ELECT	2200uF	20%	35V
C935	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C936	1-165-319-11	CERAMIC CHIP	0.1uF		50V

Ref. No.	Part No.	Description			Remark
C937	1-100-756-91	CERAMIC CHIP	0.047uF		50V
⚠C938	1-113-898-11	CERAMIC	330PF	10%	250V
C939	1-136-165-00	FILM	0.1uF	5%	50V
C940	1-128-947-31	ELECT	3300uF	20%	10V
C941	1-128-954-11	ELECT	1000uF	20%	25V
C942	1-126-941-11	ELECT	470uF	20%	25V
C943	1-126-933-11	ELECT	100uF	20%	16V
C944	1-128-951-21	ELECT	2200uF	20%	16V
C945	1-126-935-11	ELECT	470uF	20%	16V
C946	1-128-950-21	ELECT	1000uF	20%	16V
C947	1-104-658-91	ELECT	100uF	20%	10V
C948	1-126-925-91	ELECT	470uF	20%	10V
C949	1-165-722-11	ELECT	100uF	20%	10V
C951	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C952	1-100-756-91	CERAMIC CHIP	0.047uF		50V
C953	1-117-214-11	CERAMIC	0.001uF	10%	2KV
C954	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C955	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C958	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C960	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
⚠C963	1-113-907-51	CERAMIC	0.0022uF	99%	250V
⚠C964	1-113-907-51	CERAMIC	0.0022uF	99%	250V
C967	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C968	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C969	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C970	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C971	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C976	1-126-933-11	ELECT	100uF	20%	16V
		< CONNECTOR >			
CN901	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P			
		< DIODE >			
⚠D901	8-719-082-57	DIODE	D5SBA60F01		
⚠D905	8-719-063-74	DIODE	D1NL20U-TR2		
⚠D906	6-501-193-01	DIODE	1SS355WTE-17		
⚠D907	6-501-193-01	DIODE	1SS355WTE-17		
⚠D908	6-501-193-01	DIODE	1SS355WTE-17		
⚠D909	6-501-193-01	DIODE	1SS355WTE-17		
⚠D910	6-501-193-01	DIODE	1SS355WTE-17		
⚠D913	6-500-241-01	DIODE	SARS03		
⚠D914	6-501-193-01	DIODE	1SS355WTE-17		
⚠D915	8-719-977-28	DIODE	UDZSTE-1710B		
⚠D921	6-501-424-01	DIODE	STO2D-140		
⚠D922	8-719-063-74	DIODE	D1NL20U-TR2		
⚠D923	8-719-977-28	DIODE	UDZSTE-1710B		
⚠D924	8-719-083-69	DIODE	UDZSTE-1724B		
⚠D925	8-719-069-54	DIODE	UDZSTE-175.1B		
⚠D926	8-719-977-28	DIODE	UDZSTE-1710B		
D931	6-501-413-01	DIODE	FCU20UC20		
D932	8-719-069-54	DIODE	UDZSTE-175.1B		
D941	6-500-288-11	DIODE	EK19LF-F7		
D942	8-719-080-53	DIODE	RK36LF-B3		
D943	8-719-080-53	DIODE	RK36LF-B3		
D944	6-500-288-11	DIODE	EK19LF-F7		
D945	8-719-083-67	DIODE	UDZSTE-1720B		

POWER

Ref. No.	Part No.	Description			Remark
		< GROUND TERMINAL BOARD >			
EB901	1-537-770-21	TERMINAL BOARD, GROUND			
EB902	1-537-770-21	TERMINAL BOARD, GROUND			
EB903	1-537-770-21	TERMINAL BOARD, GROUND			
EB904	1-537-770-21	TERMINAL BOARD, GROUND			
		< FUSE HOLDER >			
⚠FH901	1-533-313-11	FUSE HOLDER 0A 0V			
⚠FH902	1-533-313-11	FUSE HOLDER 0A 0V			
		< FUSIBLE >			
⚠FR901	1-220-886-11	FUSIBLE	0.1	10%	1W
⚠FR902	1-220-886-11	FUSIBLE	0.1	10%	1W
		< IC >			
⚠IC901	6-707-741-01	IC STR-F6138-LF1352			
⚠IC921	6-707-740-01	IC STR-V153			
IC931	8-759-648-34	IC TA76431AS (TPE6)			
IC941	6-707-746-01	IC SI-3120KM-TL			
IC942	6-707-745-10	IC SI-3050KM-TL			
IC943	6-707-744-01	IC SI-3033KM-TL			
IC951	6-707-743-01	IC TA76L431S (TPE6, Q)			
		< COIL >			
L931	1-457-226-11	INDUCTOR	10uH		
L941	1-414-398-11	INDUCTOR	10uH		
L942	1-414-398-11	INDUCTOR	10uH		
L945	1-414-398-11	INDUCTOR	10uH		
L947	1-414-398-11	INDUCTOR	10uH		
L948	1-414-398-11	INDUCTOR	10uH		
L951	1-414-398-11	INDUCTOR	10uH		
		< LINE FILTER >			
⚠LF901	1-457-054-21	COIL, LINE FILTER			
⚠LF902	1-457-054-21	COIL, LINE FILTER			
		< IC >			
⚠PC901	6-600-438-01	IC TLP421F (D4-GR)			
⚠PC902	6-600-438-01	IC TLP421F (D4-GR)			
⚠PC903	6-600-438-01	IC TLP421F (D4-GR)			
		< TRANSISTOR >			
⚠Q901	8-729-140-04	TRANSISTOR	2SB1116A-TP-LK		
⚠Q921	8-729-142-51	TRANSISTOR	2SD1616A-TP-LK		
Q943	1-801-806-11	TRANSISTOR	RT1N441C-TP-1		
Q945	6-550-718-01	TRANSISTOR	RSR025N03TL		
Q947	1-801-806-11	TRANSISTOR	RT1N441C-TP-1		
		< RESISTOR >			
⚠R902	1-219-769-11	METAL	3.3M	5%	1/2W
⚠R903	1-215-926-00	METAL OXIDE	33K	5%	3W
⚠R904	1-215-926-00	METAL OXIDE	33K	5%	3W
⚠R905	1-216-797-11	METAL CHIP	10	5%	1/10W
⚠R906	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
⚠R907	1-216-833-11	METAL CHIP	10K	5%	1/10W
⚠R908	1-260-105-11	CARBON	3.3K	5%	1/2W
⚠R909	1-216-845-11	METAL CHIP	100K	5%	1/10W
⚠R910	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
⚠R911	1-216-813-11	METAL CHIP	220	5%	1/10W
⚠R912	1-216-361-61	METAL OXIDE	0.22	5%	2W
⚠R913	1-216-361-61	METAL OXIDE	0.22	5%	2W
⚠R914	1-243-669-11	METAL	0.05	5%	5W
⚠R919	1-216-836-11	METAL CHIP	18K	5%	1/10W
⚠R922	1-216-793-11	METAL CHIP	4.7	5%	1/10W
⚠R923	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
⚠R925	1-216-797-11	METAL CHIP	10	5%	1/10W
⚠R926	1-216-855-11	METAL CHIP	680K	5%	1/10W
⚠R927	1-216-348-00	METAL OXIDE	0.82	5%	1W
⚠R929	1-249-478-11	CARBON	2.2	5%	1/2W
R931	1-218-859-11	METAL CHIP	3.3K	0.5%	1/10W
R932	1-218-883-11	METAL CHIP	33K	0.5%	1/10W
R933	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R934	1-216-821-11	METAL CHIP	1K	5%	1/10W
R935	1-216-821-11	METAL CHIP	1K	5%	1/10W
R936	1-216-853-11	METAL CHIP	470K	5%	1/10W
R937	1-216-833-11	METAL CHIP	10K	5%	1/10W
R938	1-216-821-11	METAL CHIP	1K	5%	1/10W
R939	1-218-859-11	METAL CHIP	3.3K	0.5%	1/10W
R940	1-216-833-11	METAL CHIP	10K	5%	1/10W
R941	1-216-864-11	SHORT CHIP	0		
R943	1-216-864-11	SHORT CHIP	0		
R946	1-216-811-11	METAL CHIP	150	5%	1/10W
R948	1-216-833-11	METAL CHIP	10K	5%	1/10W
R949	1-216-821-11	METAL CHIP	1K	5%	1/10W
R951	1-218-831-11	METAL CHIP	220	0.5%	1/10W
R952	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W
R953	1-218-861-11	METAL CHIP	3.9K	0.5%	1/10W
R954	1-216-837-11	METAL CHIP	22K	5%	1/10W
R955	1-216-817-11	METAL CHIP	470	5%	1/10W
R956	1-216-821-11	METAL CHIP	1K	5%	1/10W
R957	1-216-841-11	METAL CHIP	47K	5%	1/10W
R958	1-216-821-11	METAL CHIP	1K	5%	1/10W
R965	1-218-865-11	METAL CHIP	5.6K	0.5%	1/10W
R966	1-216-821-11	METAL CHIP	1K	5%	1/10W
R967	1-216-821-11	METAL CHIP	1K	5%	1/10W
⚠R968	1-216-821-11	METAL CHIP	1K	5%	1/10W
R969	1-216-821-11	METAL CHIP	1K	5%	1/10W
R971	1-216-864-11	SHORT CHIP	0		
R974	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
		< TRANSFORMER >			
⚠T901	1-443-649-11	TRANSFORMER, CONVERTER			
⚠T902	1-443-650-11	TRANSFORMER, CONVERTER			
		< THERMISTOR >			
⚠TH901	1-805-841-21	THERMISTOR, NTC 3.0			
		< VARISTOR >			
⚠VDR901	1-805-482-11	VARISTOR			

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RELAY **SENSOR** **SPEAKER** **SW** **SW (1)** **SW (2)**

Ref. No.	Part No.	Description			Remark
	A-4750-232-A	RELAY BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C701	1-126-786-11	ELECT	47uF	20%	16V
C702	1-126-791-11	ELECT	10uF	20%	16V
C761	1-162-306-11	CERAMIC	0.01uF	30%	16V
C762	1-162-306-11	CERAMIC	0.01uF	30%	16V
		< CONNECTOR >			
CN701	1-779-558-11	CONNECTOR, FFC (LIF (NON-ZIF)) 21P			
		< DIODE >			
D701	8-719-921-40	DIODE MTZJ-T-77-4.7B			
D711	8-719-982-10	DIODE MTZJ-T-77-4.3A			
		< IC >			
IC701	8-759-598-69	IC BA6956AN			
IC711	8-759-598-69	IC BA6956AN			
		< TRANSISTOR >			
Q751	8-729-119-78	TRANSISTOR	2SC1740S-QRT		
		< RESISTOR >			
R701	1-249-415-11	CARBON	680	5%	1/4W
R702	1-247-807-31	CARBON	100	5%	1/4W
R711	1-249-415-11	CARBON	680	5%	1/4W
R712	1-247-807-31	CARBON	100	5%	1/4W
R751	1-247-806-11	CARBON	91	5%	1/4W
R752	1-249-429-11	CARBON	10K	5%	1/4W
R753	1-249-429-11	CARBON	10K	5%	1/4W
R754	1-249-430-11	CARBON	12K	5%	1/4W
R755	1-249-429-11	CARBON	10K	5%	1/4W
**********					
		SENSOR BOARD			
		**********			
		< IC >			
IC751	8-759-989-76	IC RPR-359F			
**********					
		SPEAKER BOARD			
		**********			
		< CAPACITOR >			
C301	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C302	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C303	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C304	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C305	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C306	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C307	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C308	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C309	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C310	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C311	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C312	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C313	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C314	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C315	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C316	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C317	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C318	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C319	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C320	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C321	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C322	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C323	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C324	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
		< CONNECTOR >			
CN301	1-564-507-11	PLUG, CONNECTOR 4P			
CN302	1-564-320-00	PIN, CONNECTOR (3.96mm PITCH) 2P			
CN303	1-564-509-11	PLUG, CONNECTOR 6P			
		< EARTH TERMINAL >			
EP301	1-537-770-21	TERMINAL BOARD, GROUND			
EP302	1-537-770-21	TERMINAL BOARD, GROUND			
		< TERMINAL >			
TB301	1-780-344-11	TERMINAL BOARD (SPEAKER) 4P (FRONT R, FRONT L, CENTER, WOOFER)			
TB302	1-780-343-11	TERMINAL BOARD (SPEAKER) 2P (SUR R, SUR L)			
**********					
		SW BOARD			
		********			
		< SWITCH >			
S801	1-762-875-21	SWITCH, KEYBOARD (I/⏻)			
**********					
		SW (1) BOARD			
		**********			
		< SWITCH >			
S721	1-786-084-11	SWITCH, DETECTION (MAIN TRAY IN/OUT)			
**********					
		SW (2) BOARD			
		**********			
		< SWITCH >			
S731	1-786-382-11	SWITCH, PUSH (1 KEY) (SUB TRAY IN)			
**********					
		MISCELLANEOUS			
		**********			
4	1-828-953-11	WIRE (FLAT TYPE) (9 CORE)			
5	1-693-703-11	TUNER (FM/AM) (TM10SU)			
10	1-787-331-11	FAN, D.C.			
11	1-828-292-11	WIRE (FLAT TYPE) (5 CORE)			
12	1-828-319-11	WIRE (FLAT TYPE) (11 CORE)			
71	1-828-384-11	WIRE (FLAT TYPE) (23 CORE)			
102	1-828-319-11	WIRE (FLAT TYPE) (11 CORE)			

Ref. No.	Part No.	Description	Remark
103	1-828-370-11	WIRE (FLAT TYPE) (21 CORE)	
104	1-828-985-11	WIRE (FLAT TYPE) (15 CORE)	
105	1-828-310-11	WIRE (FLAT TYPE) (9 CORE)	
⚠109	1-830-190-11	CORD, POWER	
115	1-828-774-51	WIRE (FLAT TYPE) (24 CORE)	
⚠302	8-820-291-02	OPTICAL PICK-UP (KHM-310CAB/C2RP)	
⚠F901	1-532-749-11	FUSE, GLASS TUBE (8A/125V)	
M761	A-4713-174-A	MOTOR (81) ASSY (LD/ST MOTOR)	
M762	A-4713-174-A	MOTOR (81) ASSY (BU U/D MOTOR)	
S771	1-478-552-11	ENCODER, ROTARY (MD)	
S781	1-478-551-11	ENCODER, ROTARY (ST U/D ENCORDER)	

MEMO

REVISION HISTORY

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Ver.	Date	Description of Revision
1.0	2006.03	New
1.1	2006.04	Correction of Test mode (ENG-06003)
		"DIODE P6SMB39AT3" is changed to "DIODE P6SMBJ33A-5". (ECN-ECB47846)
		Change of the parts R3107, R3157, R3207, R3257, R3307, R3407 and R3507 (ECN-ECB55469)
		Change of the parts IC102 of the DMB12 board (ECN-ECB53938)
		Change of the parts R3017, R3026 and R3037 (ECN-ECB54487)