

HCD-GN999D

SERVICE MANUAL

E Model



Ver.1.0 2006.06



- HCD-GN999D is the Amplifier, DVD player, tape deck and tuner section in MHC-GN999D/GN999DS.

DVD Section	Model Name Using Similar Mechanism	HCD-GNV99D
	DVD Mechanism Type	CDM74HF-DVBU101
	Optical Pick-up Name	KHM-310CAB/C2NP
TAPE Section	Model Name Using Similar Mechanism	NEW
	Tape Transport Mechanism Type	CWN42FR602

SPECIFICATIONS

Amplifier section

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

DIN power output (rated)	135 W + 135 W (6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference)	
Front speaker:	160 W + 160 W (6 ohms at 1 kHz, 10% THD)
Center speaker:	50 W (16 ohms at 1 kHz, 10% THD)
Surround speaker:	50 W + 50 W (16 ohms at 1 kHz, 10% THD)
Subwoofer:	160 W (6 ohms at 100 Hz, 10% THD)
Inputs	
VIDEO INPUT (phono jacks)	VIDEO: 1 Vp-p, 75 ohms AUDIO L/R: Voltage 250 mV, impedance 47 kilohms
TV/SAT AUDIO IN L/R (phono jacks)	Voltage 250 mV/450 mV, impedance 47 kilohms MIC 1/MIC 2
(phone jack):	Sensitivity 1 mV, impedance 10 kilohms
Outputs	
VIDEO OUT (phono jack):	Max. output level 1 Vp-p, unbalanced, Sync. negative load impedance 75 ohms
COMPONENT VIDEO OUT	Y: 1 Vp-p, 75 ohms P _B /C _B : 0.7 Vp-p, 75 ohms P _R /C _R : 0.7 Vp-p, 75 ohms

S VIDEO OUT (4-pin/mini-DIN jack)

Y: 1 Vp-p, unbalanced,
Sync. negative
C: 0.286 Vp-p, load
impedance 75 ohms
Accepts headphones of
8 ohms or more
Use only the supplied speakers
Use only the supplied speakers
Use only the supplied speakers
Use only the supplied subwoofer

PHONES (stereo mini jack):

FRONT SPEAKER:
SURROUND SPEAKER
CENTER SPEAKER
SUB WOOFER

Disc player section

System	Compact disc and digital audio and video system
Laser	Semiconductor laser (DVD: $\lambda = 650$ nm, CD: $\lambda = 790$ nm) Emission duration: continuous
Frequency response	DVD (PCM 48 kHz): 2 Hz – 22 kHz (± 1 dB) CD: 2 Hz – 20 kHz (± 0.5 dB)
Video color system format	
Latin American models:	NTSC
Other models:	NTSC and PAL

Tape deck section

Recording system	4-track 2-channel stereo
Frequency response	50 – 13,000 Hz (± 3 dB), using Sony TYPE I tape

– Continued on next page –

MINI HI-FI COMPONENT SYSTEM

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

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

AM tuner section

Tuning range	
Latin American models:	530 – 1,710 kHz (with the interval set at 10 kHz) 531 – 1,710 kHz (with the interval set at 9 kHz)

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

General

Power requirements	
Mexican model:	127 V AC, 60 Hz
Saudi Arabian model:	120 – 127 V, 120 – 220 V or 220 – 240 V AC, 50/60 Hz Adjustable with voltage selector
Thai model:	220 V AC, 50/60 Hz
Other models:	120 V or 220 – 240 V AC, 50/60 Hz Adjustable with voltage selector
Power consumption	160 W
Dimensions (w/h/d) (Approx.)	280 × 326 x 385.5 mm
Mass (Approx.)	6.5 kg

Design and specifications are subject to change without notice.

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 TV screen and the front panel display. In this case, check the following table.

First 3 characters of the service number	Cause and corrective action
C 13	This 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

UNLEADED SOLDER

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

 : LEAD FREE MARK

Unleaded solder has the following characteristics.

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

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SECTION 1
SERVICING NOTES

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

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

NOTES ON LASER DIODE EMISSION CHECK

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

LASER DIODE AND FOCUS SEARCH OPERATION
CHECK

Carry out the “S curve check” in “CD section adjustment” and check that the S curve waveform is output several times.

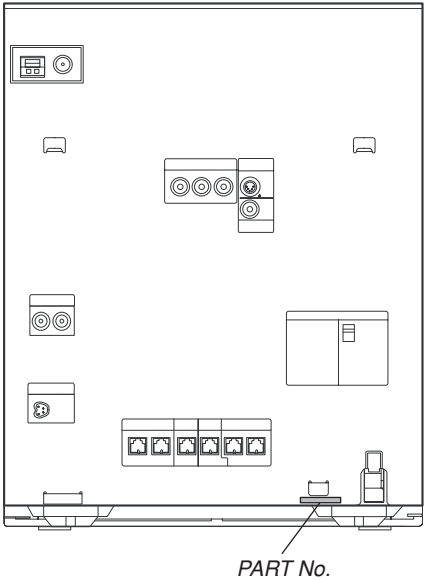
CAUTION

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



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

• MODEL IDENTIFICATION
– Back Panel –



MODEL	PART No.
E3, E15 models	2-658-971-0□
E2 model	2-658-971-1□
EA model	2-658-971-2□
MY,SP models	2-658-971-3□
E12 model	2-658-971-4□
E13 model	2-658-971-5□
PH model	2-658-971-6□
MX model	2-658-971-7□
E51 model	2-658-971-8□
TH model	2-658-971-9□

Notes on chip component replacement

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

Flexible Circuit Board Repairing

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

- Abbreviation
E2 : 120V AC Area in E model
E3 : 240V AC Area in E model
E12 : 220V-240V AC Area in E model
E13 : 220V-230V AC area in E model
E15 : Iran model
E51 : Chilean and Perurian model
EA : Saudi Arabia model
MX : Mexican model
MY : Malaysia model
PH : Philippines model
SP : Singapore model
TH : Thai model

NOTE ON REPLACEMENT OF DMB15 BOARD

New part of EEPROM (IC103) on the DMB15 board cannot be used. Therefore, if the mounted DMB15 board (A-1167-802-A or A-1167-915-A or A-1188-872-A) is replaced, exchange new EEPROM with that used before the replacement.

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.

SECTION 2 GENERAL

This section is extracted
from instruction manual.

LOCATING THE CONTROLS

ALPHABETICAL ORDER

A - D

CD SYNC [8]
Deck A [28]
Deck B [17]
DIRECTION [31]
DISC 1 ~ 3 [10]
DISC SKIP/EX-CHANGE [11]
Disc tray [7]
DISPLAY [40]
Display [4]
DVD [36]

E - O

ECHO LEVEL [22]
EQ BAND/MEMORY [3]
GROOVE [18]
ILLUMINATION [39]
IR Receptor [2]
MASTER VOLUME [19]
MIC 1 (jack) [26]
MIC 2 (jack) [25]
MIC 1 LEVEL [24]
MIC 2 LEVEL [23]

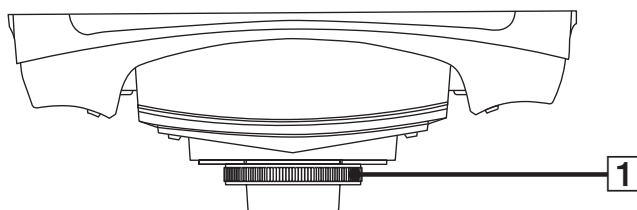
P - Z

PHONES (jack) [20]
Power illuminator [27]
PRESET EQ [29]
REC PAUSE/START [6]
SOUND FIELD [5]
SUB WOOFER ON/OFF [37]
TAPE A/B [34]
Tape lid [17] [28]
TUNER/BAND [35]
TUNING +/- [16]
TV/SAT [33]
VIDEO [32]
VIDEO INPUT (jacks) [21]

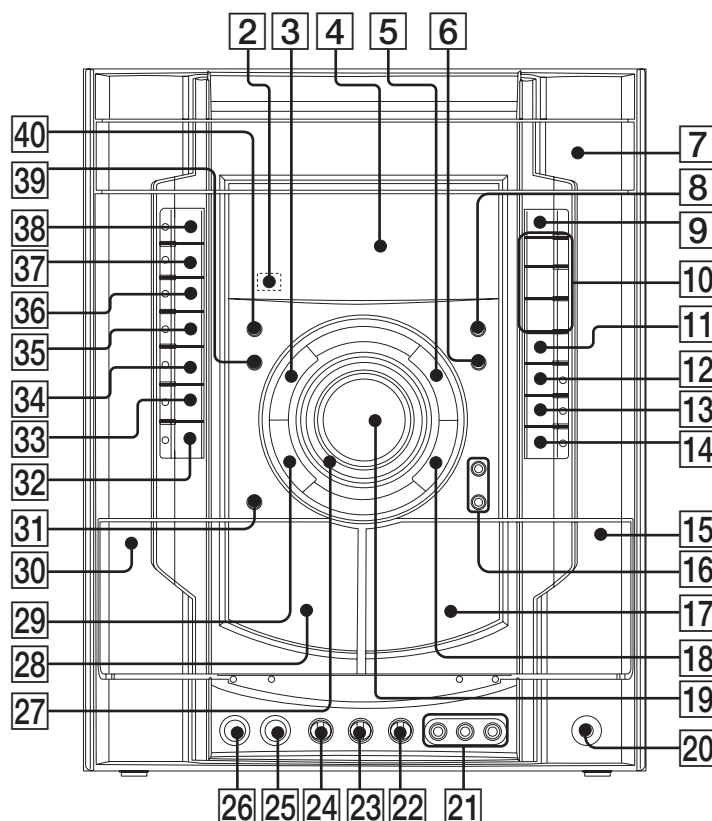
SYMBOLS

I/⏻ (on/standby) [38]
▲ OPEN/CLOSE [9]
◀▶ (play) [12]
◀◀ OPERATION DIAL ▶▶
(go backward/forward) [1]
◀◀▶▶ (rewind/fast forward)
[16]
◀▶▶▶ [16]
⏸ (pause) [13]
■ (stop) [14]
▲ PUSH (Eject A) [30]
▲ PUSH (Eject B) [15]

Top view



Front view



Remote control

ALPHABETICAL ORDER

A - L

ADVANCE 24
 ALBUM +/- 11
 ANGLE 10
 AUDIO 8
 CLEAR 28
 DISC SKIP 3
 DISPLAY 33
 ENTER 26
 FM MODE 7
 FUNCTION +/- 4
 KARAOKE MODE 31
 KARAOKE PON 30
 KEY CONTROL #/b 32

M - S

MENU 12
 Numeric Buttons ¹⁾²⁾ 29
 PICTURE NAVI 6
 PRESET + 16
 PRESET - 23
 REPEAT 7
 REPLAY 24
 SCORE 5
 SLEEP 35
 SLOW 17
 SLOW 22
 SOUND FIELD 5 13
 STEP 24
 SUBTITLE 9

T - Z

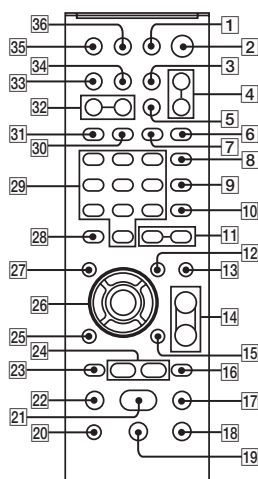
THEATRE SYNC 1
 TIMER MENU 36
 TIME/TEXT 34
 TOP MENU 27
 TUNING + 17
 TUNING - 22
 TV ²⁾ 20
 TV CH + ²⁾ 16
 TV CH - ²⁾ 23
 TV/VIDEO ²⁾ 35
 TV VOL +/- ¹⁾²⁾ 14
 TV I/⏻ (on/standby) ²⁾ 2
 VOLUME +/- ¹⁾ 14

NUMBERS AND SYMBOLS

I/⏻ (on/standby) 2
 (stop) 18
 (pause) 19
¹⁾ (play) 21
 (go forward) 16
 (go backward) 23
 (fast forward) 17
 (rewind) 22
 26
 10/0 ²⁾ 29
 -/- ²⁾ 28
 RETURN 25
 DISPLAY 15
 STEP 24

¹⁾ The numeric button 5, TV VOL +, VOLUME + and buttons have a tactile dot. Use the tactile dot as a reference when operating the system.

²⁾ This button is used to operate a Sony TV. For details, see "Operating a Sony TV with the remote" on page 17.



Setting the clock

- 1 Press I/⏻ to turn on the system.
- 2 Press TIMER MENU.
The hour indication flashes in the display.
- 3 Press or repeatedly to set the hour.
- 4 Press ENTER.
The minute indication flashes in the display.
- 5 Press or repeatedly to set the minute.
- 6 Press ENTER.
The clock starts functioning.

To adjust the clock

- 1 Press TIMER MENU.
"PLAY SET" flashes in the display.
- 2 Press or repeatedly to select "CLOCK SET", then press ENTER.
The hour indication flashes in the display.
- 3 Do the same procedures as step 3 to 6 above.

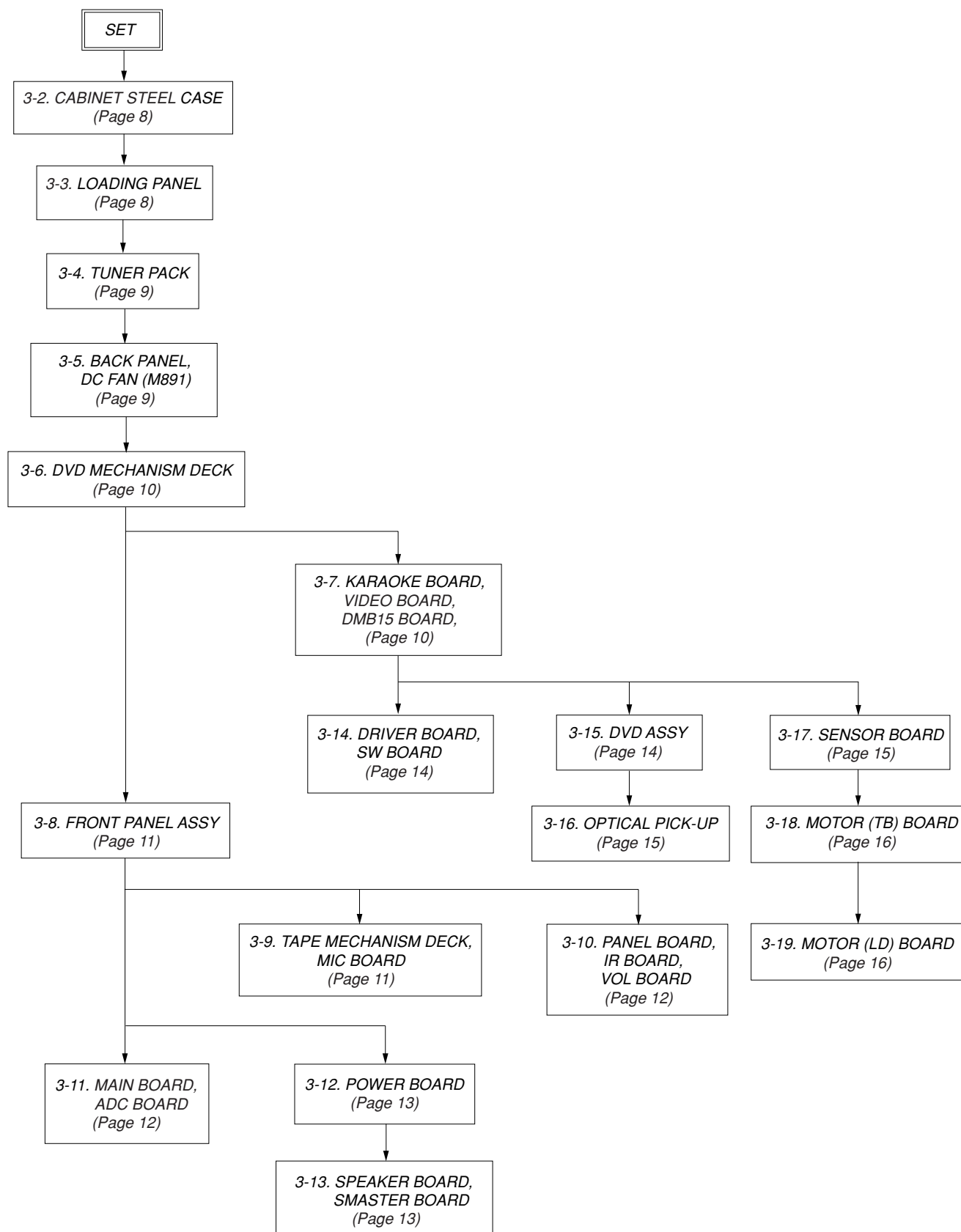
Notes

The clock settings are canceled when you disconnect the power cord or if a power failure occurs.
 You cannot set the clock in Power Saving Mode.

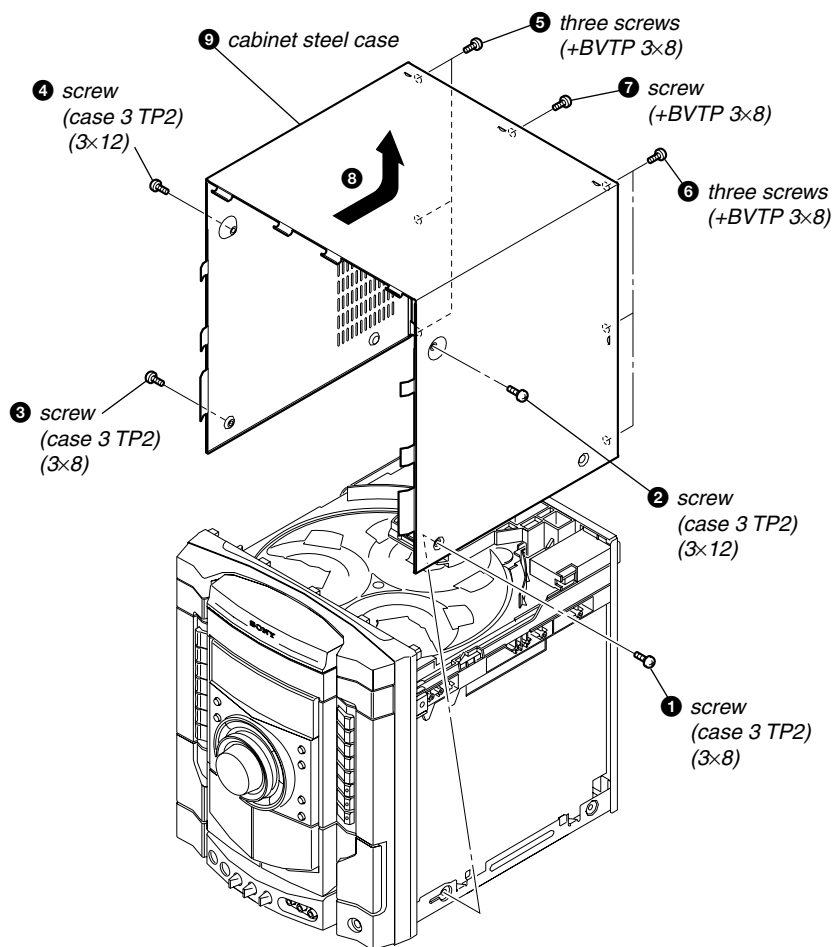
SECTION 3 DISASSEMBLY

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

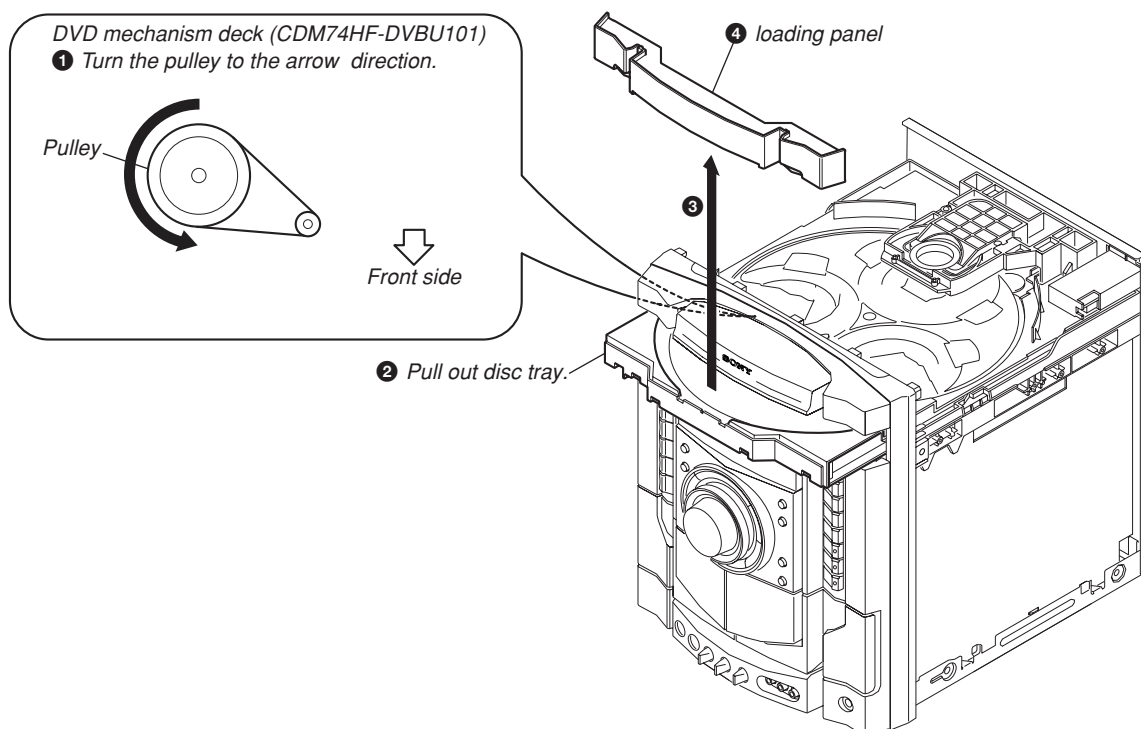
3-1. DISASSEMBLY FLOW



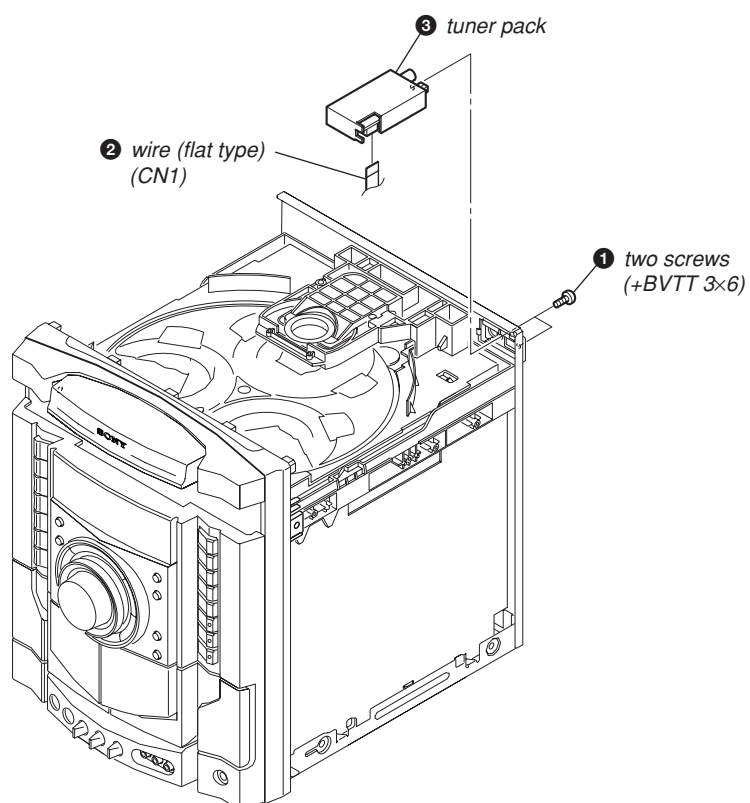
3-2. CABINET STEEL CASE



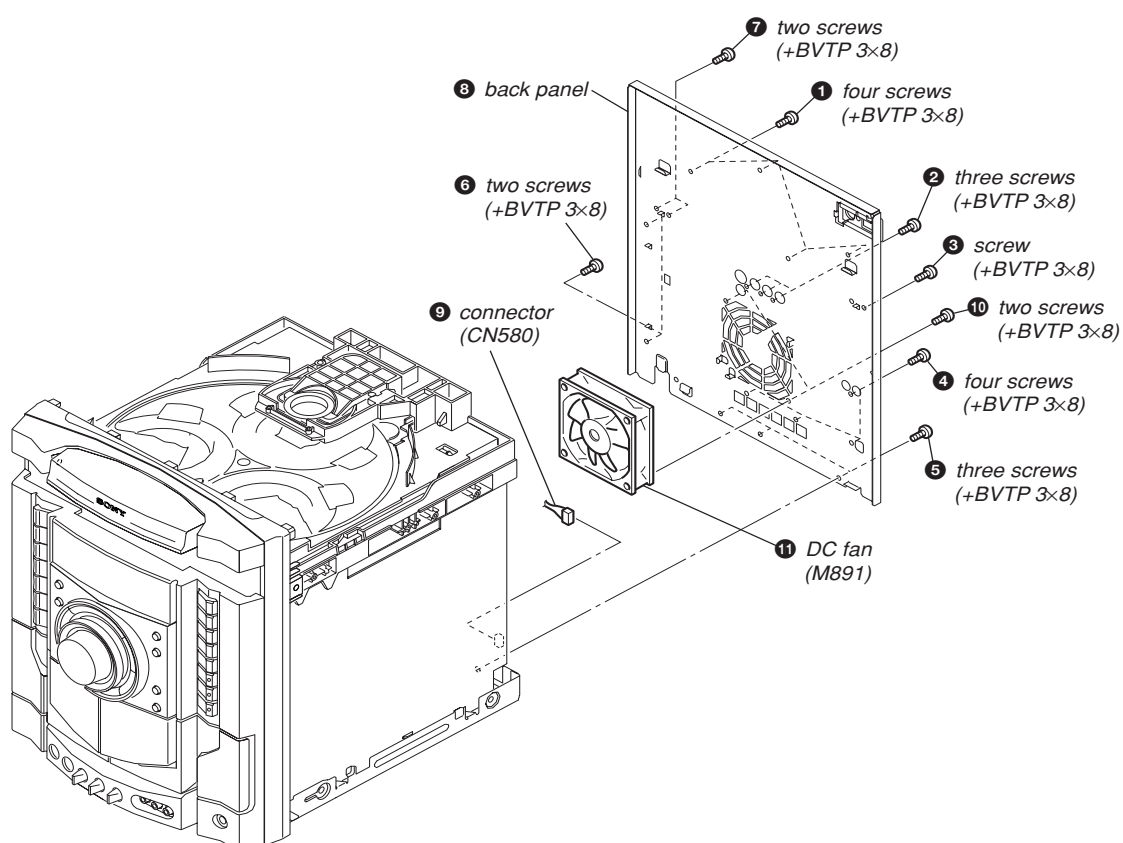
3-3. LOADING PANEL



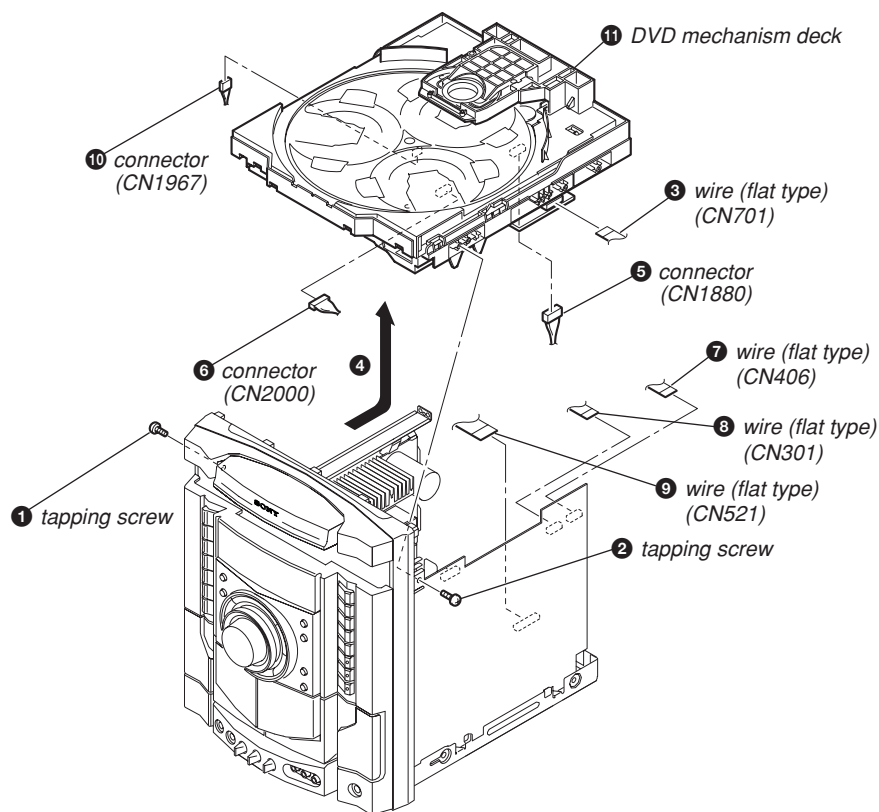
3-4. TUNER PACK



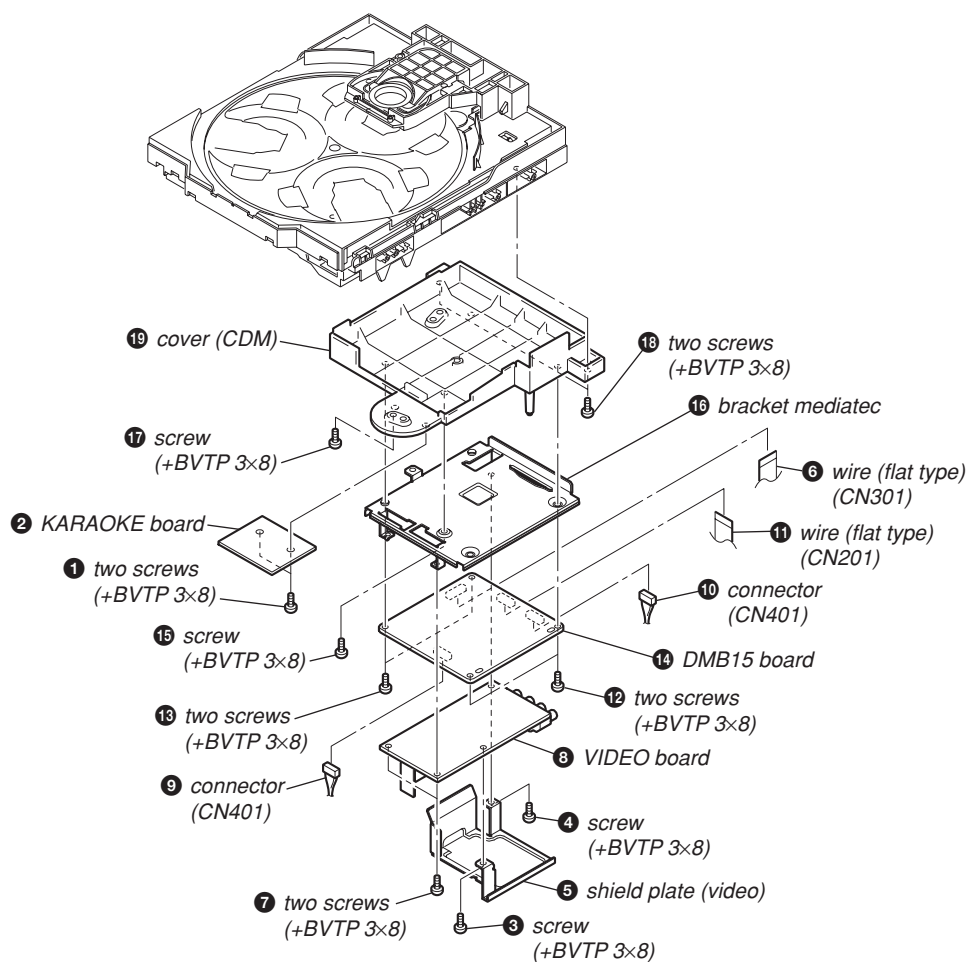
3-5. BACK PANEL, DC FAN (M891)



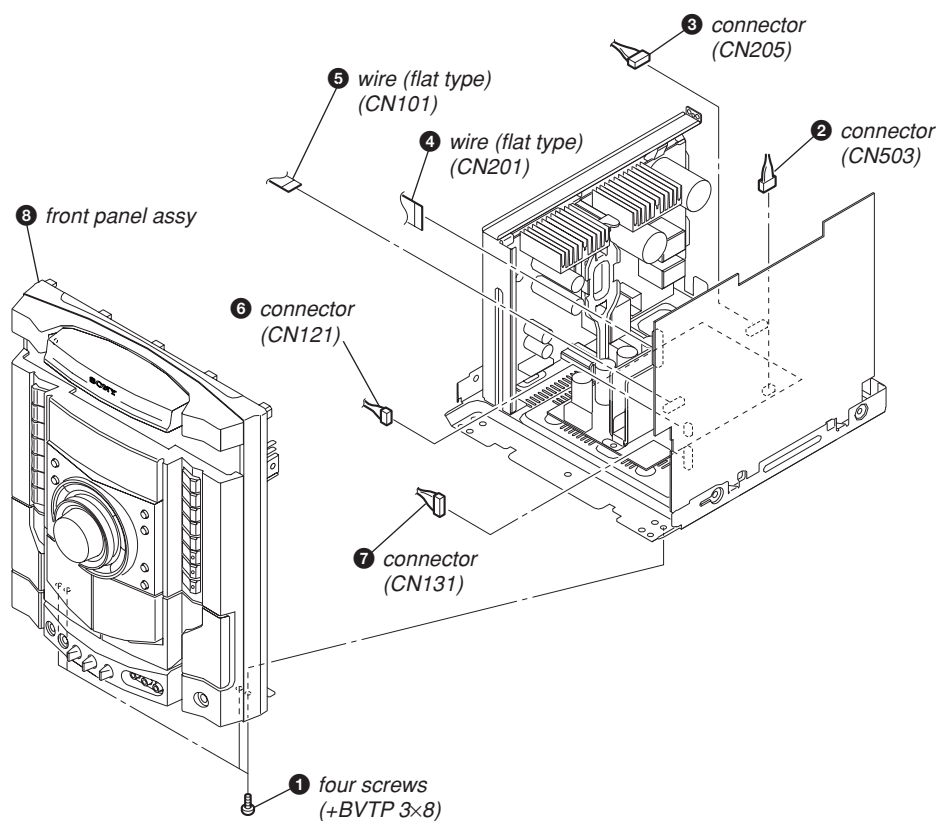
3-6. DVD MECHANISM DECK



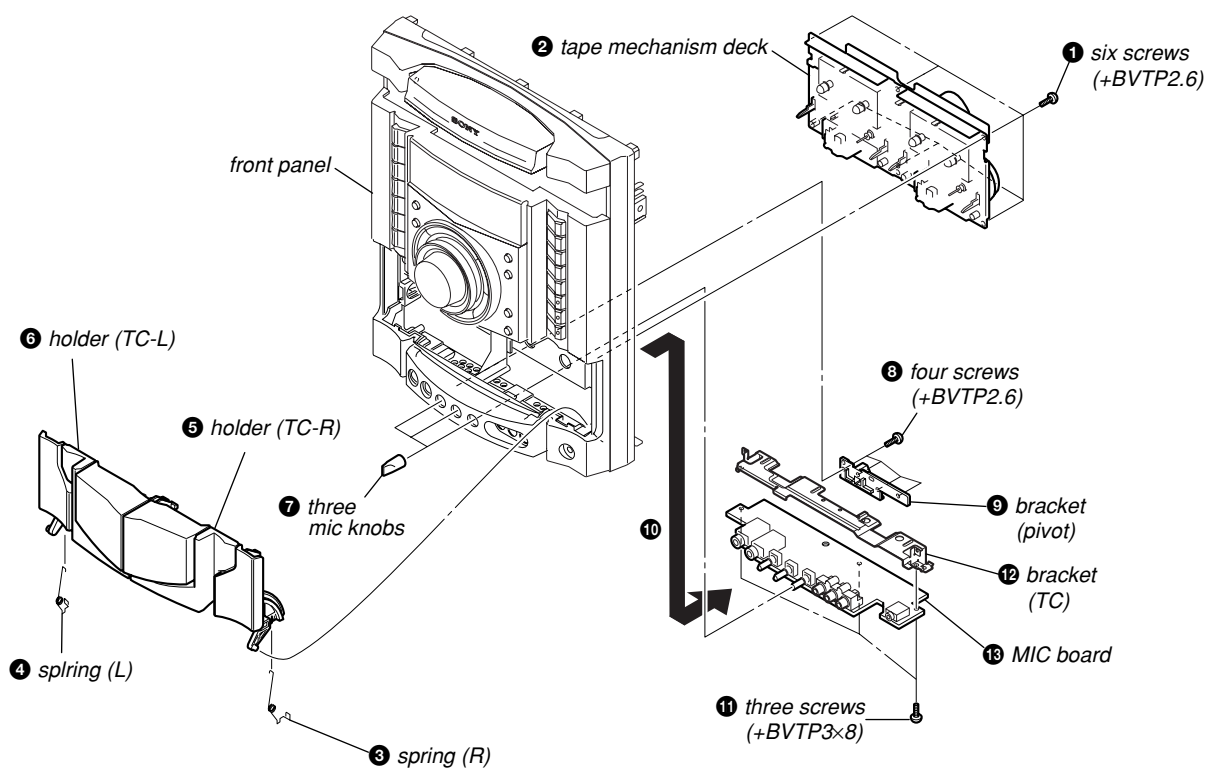
3-7. KARAOKE BOARD, VIDEO BOARD, DMB15 BOARD



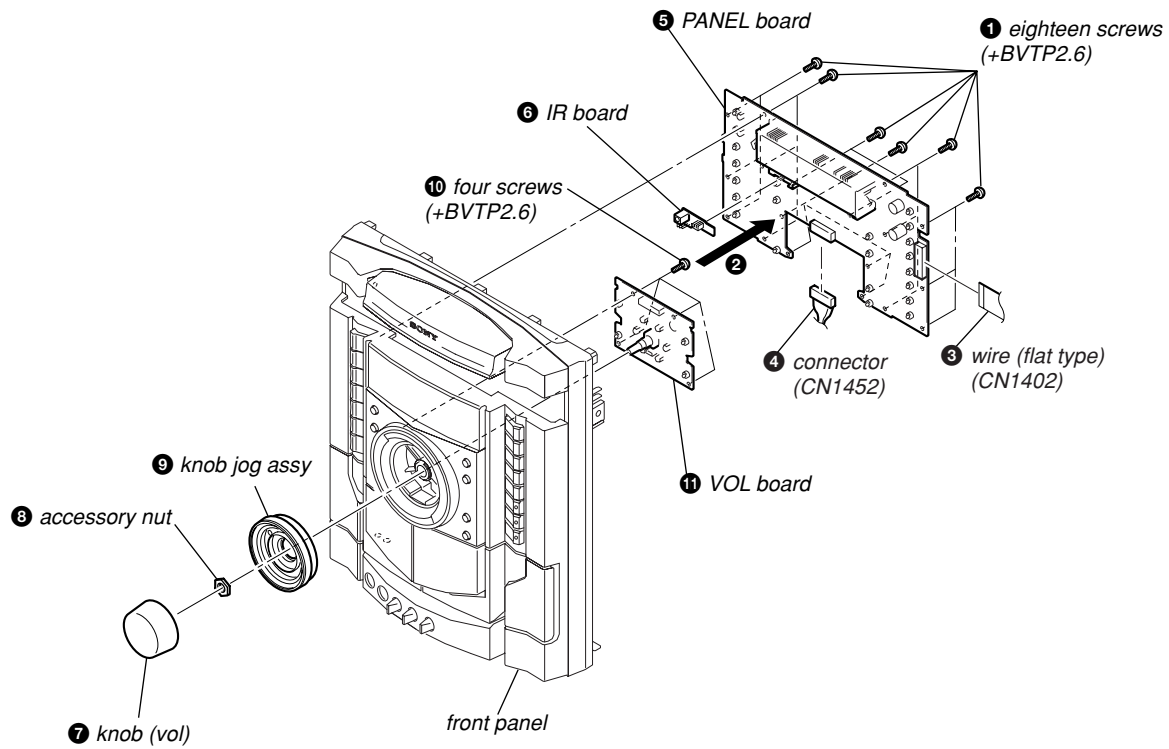
3-8. FRONT PANEL ASSY



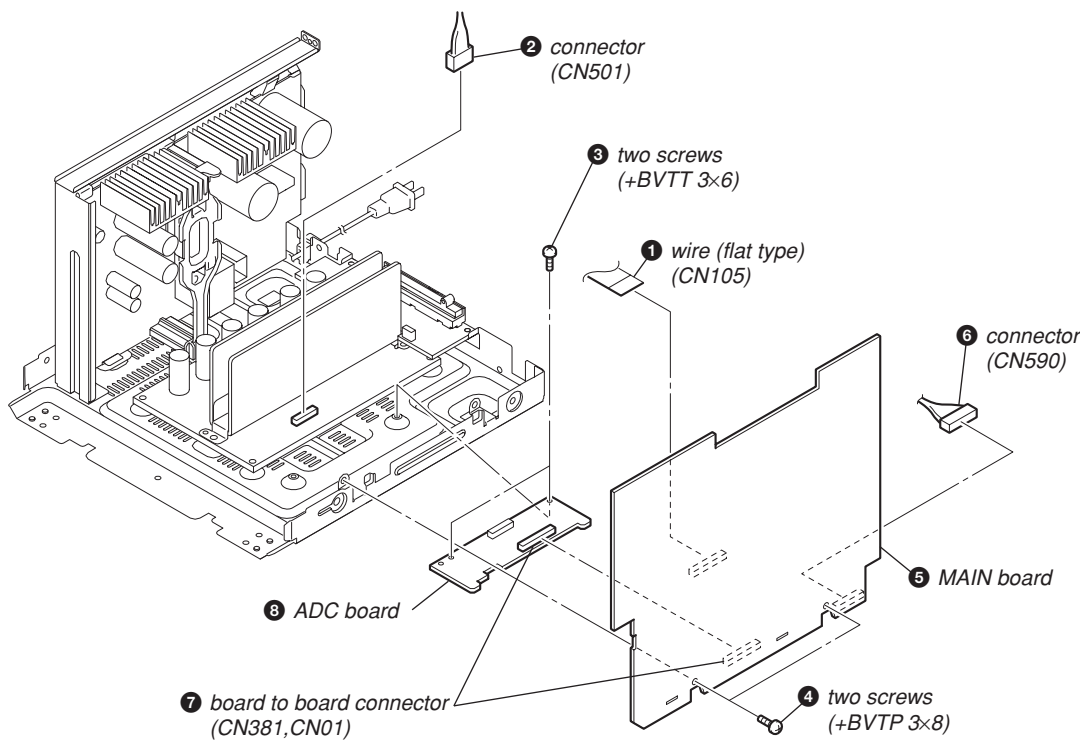
3-9. TAPE MECHANISM DECK, MIC BOARD



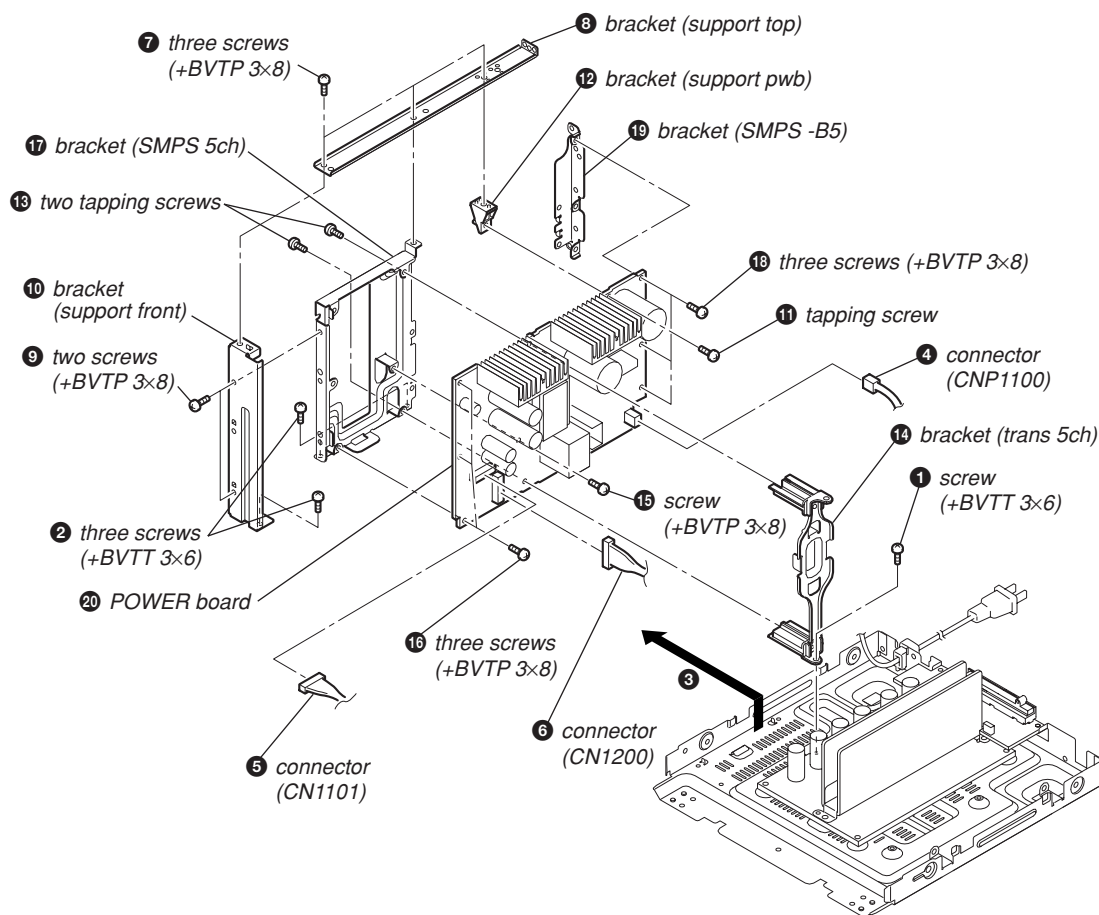
3-10. PANEL BOARD, IR BOARD, VOL BOARD



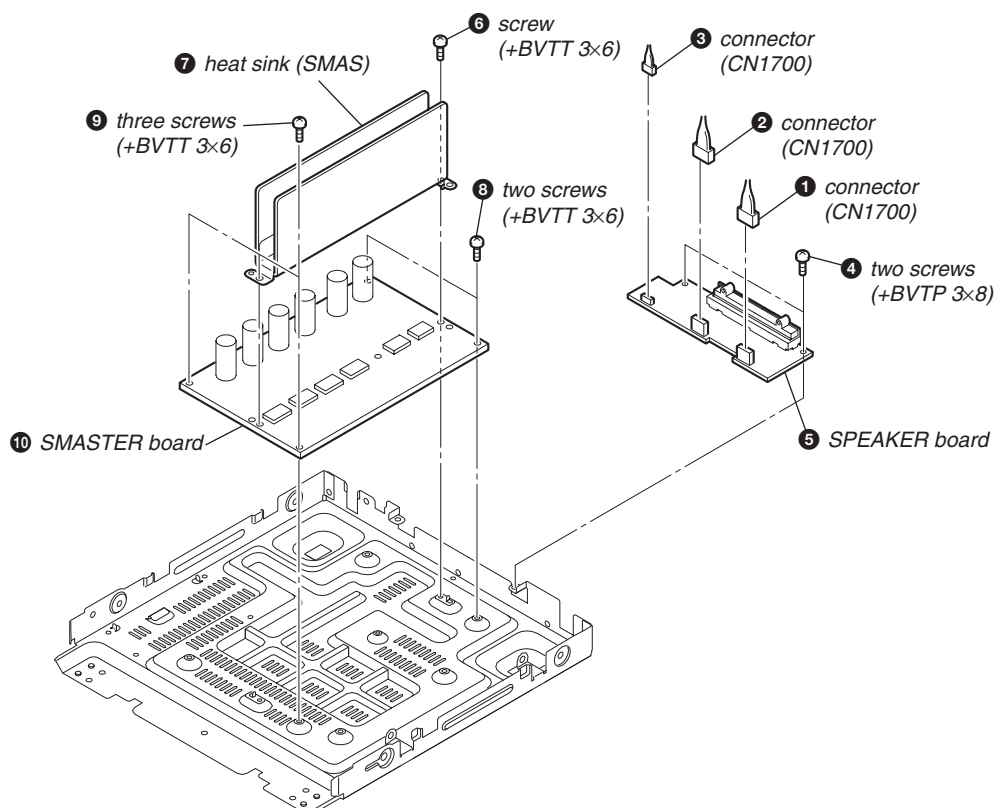
3-11. MAIN BOARD, ADC BOARD



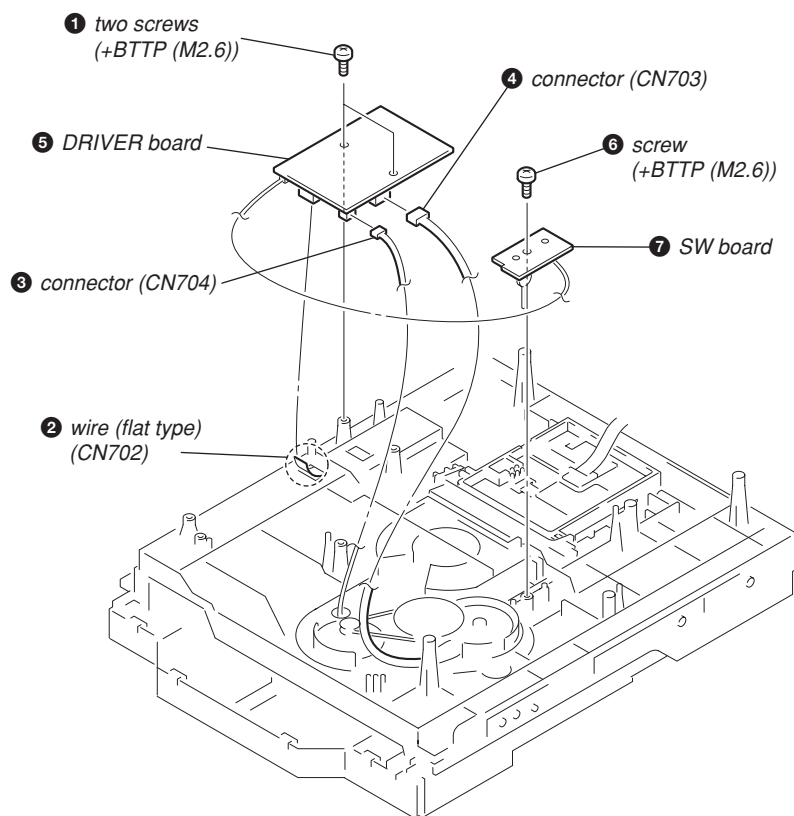
3-12. POWER BOARD



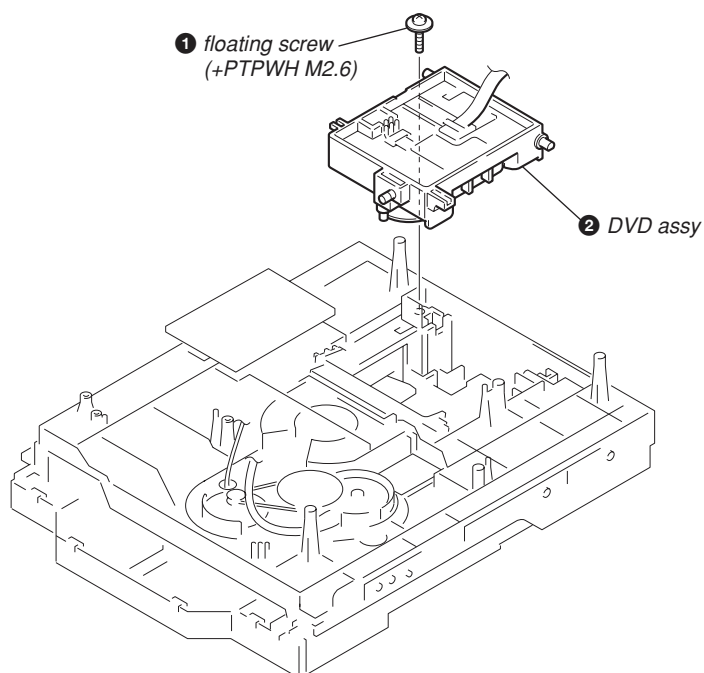
3-13. SPEAKER BOARD, SMASER BOARD



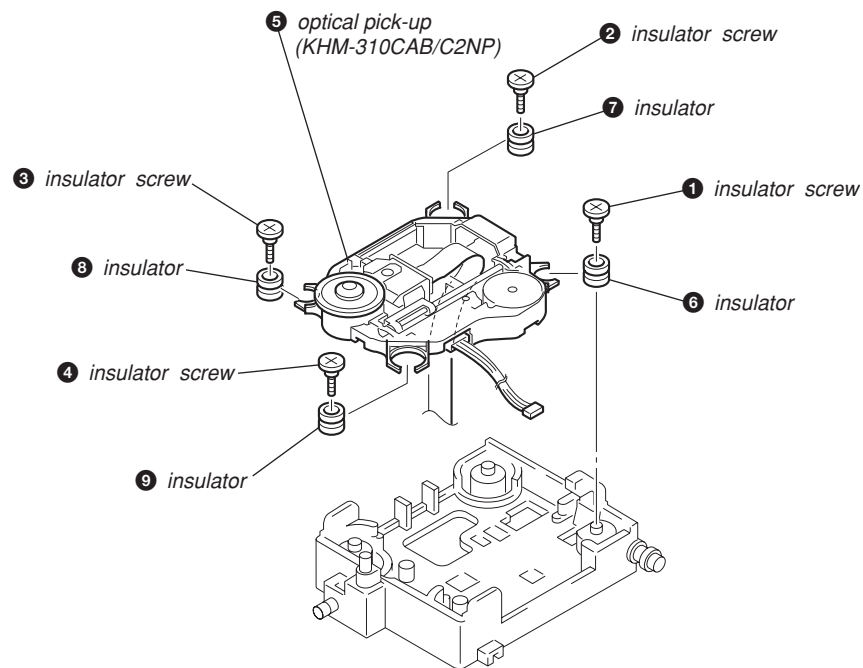
3-14. DRIVER BOARD, SW BOARD



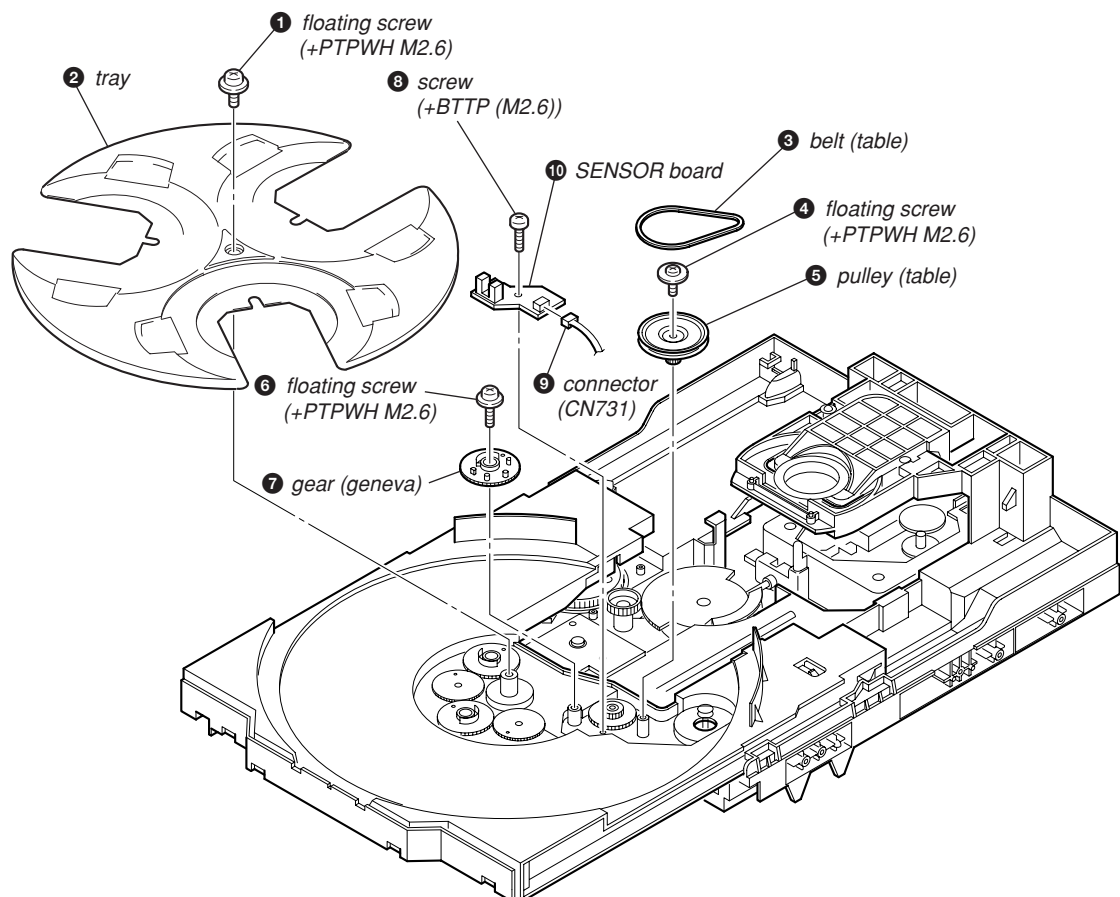
3-15. DVD ASSY



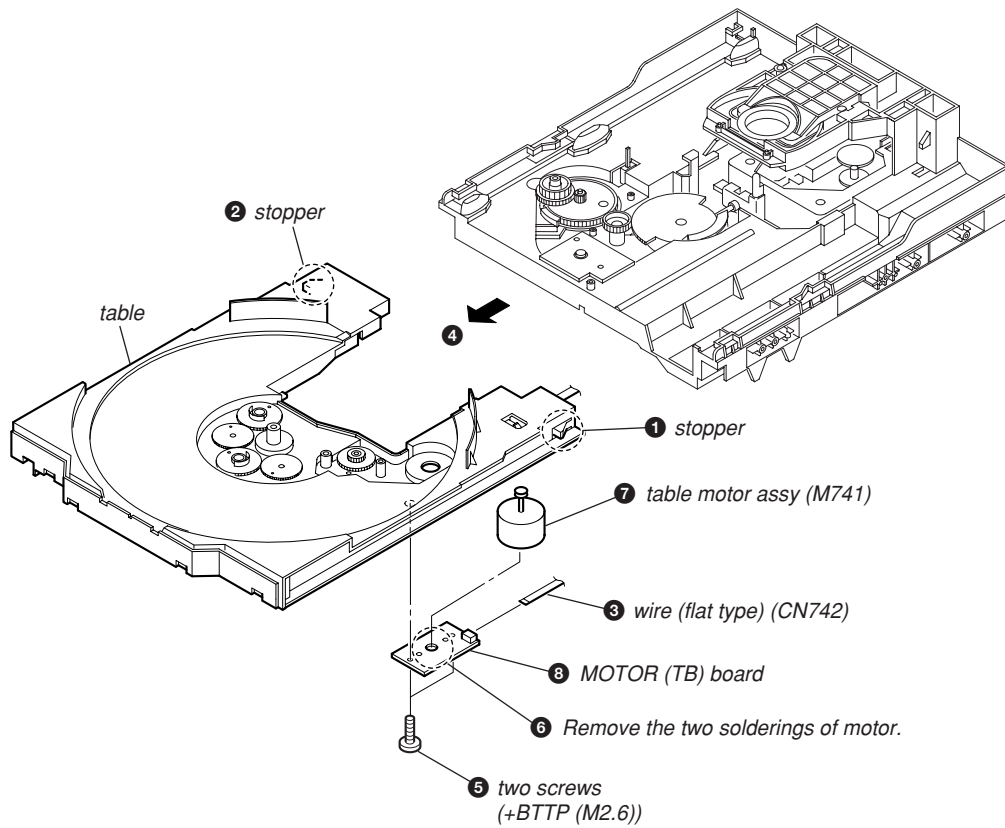
3-16. OPTICAL PICK-UP



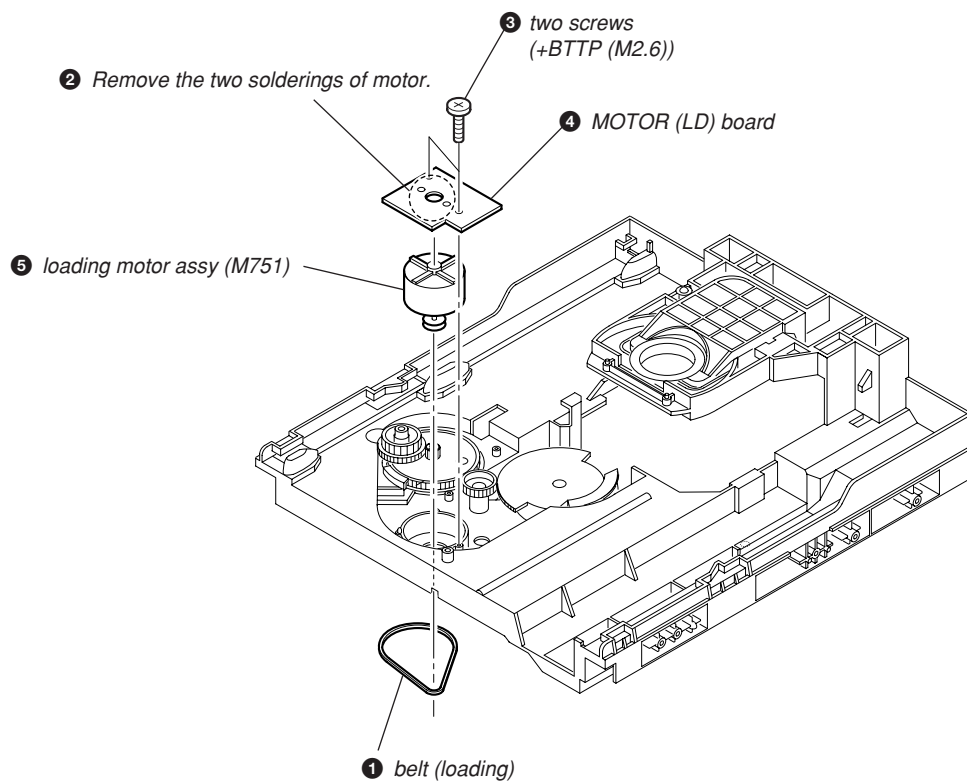
3-17. SENSOR BOARD



3-18. MOTOR (TB) BOARD



3-19. MOTOR (LD) BOARD



SECTION 4

TEST MODE

[PANEL TEST MODE]

- This mode is used to check the fluorescent indicator tube, LEDs, keys, VOLUME jog, model, destination, software version and VACS level.

Procedure:

- Press **[■]** button, **[ILLUMINATION]** button and **[DISC 2]** button simultaneously.
- All LEDs and segments in fluorescent indicator tube are lighted up.
- When you want to enter to the software version display mode, press **[DISC 1]** button. The model information appears on the fluorescent indicator tube. Press **[DISC 1]** button again to view the destination information.
- Each time **[DISC 1]** button is pressed, the display changes from MC version, SYS version, UI version, DVD version, CDMA version, CDMA version, ST version, TA version, TM version, TC version in this order, and returns to the model version display.
- When **[DISC 3]** button is pressed while the version numbers are being displayed except model and destination, the date of the software creation appears. When **[DISC 3]** button is pressed again, the display returns to the software version display. When **[DISC 1]** button is pressed while the date of the software creation is being displayed, the date of the software creation is displayed in the same order of software version display.
- Press **[DISC 2]** button, the key check mode is activated.
- In the key check mode, the fluorescent indicator tube displays "K 0 V0".
Turn the **[OPERATION DIAL]** clockwise; "K" value increases by one. Turn the **[OPERATION DIAL]** counterclockwise; "K" value decreases by one. Each time a button is pressed, "K" value increases. Press other keys on main unit to check whether the key is detected. However, once a button has been pressed, it is no longer taken into account.
"V" value increases in the manner of 0, 1, 2, 3 ... if **[VOLUME]** knob is turned clockwise, or it decreases in the manner of 0, 9, 8, 7 ... if **[VOLUME]** knob is turned counterclockwise.
- When **[DISC 3]** button is pressed after all LEDs and segments in fluorescent indicator tube light up, the fluorescent indicator tube displays "VACS A". A is VACS level which is triggered by signal level.
- When **[DISC SKIP/EX-CHANGE]** button is pressed after all LEDs and segments in fluorescent indicator tube light up, alternate segments in fluorescent indicator tube would light up. If you press **[DISC SKIP/EX-CHANGE]** button again, another half of alternate segments in fluorescent indicator tube would light up. When **[DISC SKIP/EX-CHANGE]** button is pressed again, all segments lights off. Press **[DISC SKIP/EX-CHANGE]** button again would cause all segments lights up.
- To release from this mode, press three buttons in the same manner as step 1, or disconnect the power cord.

[COMMON TEST MODE]

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

Procedure:

- To enter Common Test Mode
- Press **[■]** button, **[ILLUMINATION]** button and **[DISC 3]** button simultaneously.
 - The DVD ring indicators and the line below DVD ring indicator flash synchronously on the fluorescent indicator tube. The function is changed to TV where the function is changed to DVD.

• Check of Amplifier

- Press **[EQ BAND/MEMORY]** button repeatedly until a message "GEQ MAX" appears on the fluorescent indicator tube. GEQ increases to its maximum.
- Press **[EQ BAND/MEMORY]** button repeatedly until a message "GEQ MIN" appears on the fluorescent indicator tube. GEQ decreases to its minimum.
- Press **[EQ BAND/MEMORY]** button repeatedly until a message "GEQ FLAT" appears on the fluorescent indicator tube. GEQ is set to flat.
- When the **[VOLUME]** knob is turned clockwise even slightly, the sound volume increases to its maximum and a message "VOLUME MAX" appears on the fluorescent indicator tube.
- When the **[VOLUME]** knob is turned counterclockwise even slightly, the sound volume decreases to its minimum and a message "VOLUME MIN" appears on the fluorescent indicator tube.

• Tape function

- When a tape is inserted in Deck B and recording is started, the function is changed to TV automatically. When **[CD SYNC]** button is pressed during recording in function, ALC (Automatic Level Control) is turned on.
- During recording, press **[◀▶]** button will stop the recording and the function is changed to TAPE B and rewind the tape in Deck B until the recording start position and playback of the tape in Deck B is started. If the **[REC PAUSE/START]** button is pressed for a pause and pressed again to resume recording during recording time, when the tape is rewind, the tape will be rewind until the position where the pause is applied.

• To release from Common Test mode

- To release from this mode, press **[I/⏻]** button.
- The cold reset is enforced at the same time.

[COLD RESET]

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

Procedure:

- Press **[I/⏻]** button to turn on the system.
- Press **[■]** button, **[ILLUMINATION]** button, and **[I/⏻]** button simultaneously.
- The message "COLD RESET" appears on the fluorescent indicator tube. Then, the fluorescent indicator tube becomes blank for a while, and the system is reset.

[VACS ON/OFF]

- This mode is used to switch on and off the VACS (Variable Attenuation Control System).

Procedure:

- Press **[I/⏻]** button to turn on the system.
- Press **[■]** button, **[DIRECTION]** button and **[DISC 1]** simultaneously. The message "VACS OFF" or "VACS ON" appears on the fluorescent indicator tube.

[TUNER STEP CHANGE]

- The step interval of AM channels can be toggled between 9 kHz and 10 kHz. This mode is not available for Saudi Arabia and Russia models.

Procedure:

1. Press **[I/⏻]** button to turn on the system.
2. Press **[TUNER/BAND]** button repeatedly to select the “AM”.
3. Press **[I/⏻]** button to turn off the system.
4. Press **[ILLUMINATION]** button and **[I/⏻]** button simultaneously. The system will turn on automatically. The message “AM 9K STEP” or “AM 10K STEP” appears on the fluorescent indicator tube and thus the channel step is changed.

[DVD SHIP MODE (WITH MEMORY CLEAR)]

- 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 **[I/⏻]** button to turn on the system.
2. Select DVD function.
3. Press **[■]** button, **[DIRECTION]** button and **[I/⏻]** button simultaneously during “DVD NO DISC” condition. The system will turn off automatically.
4. After the “STANDBY” blinking display finishes, a message “MECHA LOCK” appears on the fluorescent indicator tube and the DVD ship mode is set.

[DVD SHIP MODE (WITHOUT MEMORY CLEAR)]

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

Procedure:

1. Press **[I/⏻]** button to turn on the system.
2. Select DVD function.
3. Press **[DVD]** button and **[I/⏻]** button simultaneously during “DVD NO DISC” condition. The system will turn off automatically.
4. After the “STANDBY” blinking display finishes, a message “MECHA LOCK” appears on the fluorescent indicator tube and the DVD ship mode is set.

[DVD TRAY LOCK MODE]

- This mode let you lock the disc tray. When this mode is activated, the disc tray will not open when **[OPEN/CLOSE]** button or **[DISC SKIP/EX-CHANGE]** button is pressed. The message “LOCKED” will appears on the fluorescent indicator tube.

Procedure:

1. Press **[I/⏻]** button to turn on the system.
2. Select DVD function.
3. Press **[■]** button and **[OPEN/CLOSE]** button simultaneously and hold down until “LOCKED” or “UNLOCKED” appears on the fluorescent indicator tube (around 5 seconds).

[TCM OFFLINE MODE]

- This mode prevents the system from turning off automatically when TCM is not connected. Therefore, measurements can be done even when TCM is not connected during production.

Procedure:

1. When the system is turned off, press **[EQ BAND/MEMORY]** button, **[TAPE A/B]** button and **[I/⏻]** button simultaneously. The system will turn on automatically.
2. The message “TCM OFFLINE” will appears on the fluorescent indicator tube.

- To release from TCM Offline Mode

To release from this mode, perform “COLD RESET” or turn off the power supply.

[TV/SAT SWITCHING]

- This mode let you switch from TV to SAT and vice-versa.

Procedure:

1. Press **[I/⏻]** button to turn on the system.
2. Select TV function.
3. Press **[TV/SAT]** button and **[I/⏻]** button simultaneously. The function will change to SAT. Press the same buttons again to change from SAT to TV.

[DVD COLOR SYSTEM]

- This mode let you change the color system of the video output from PAL to NTSC or vice-versa. This mode is not available for Latin American and Russian models.

Procedure:

1. Press **[I/⏻]** button to turn on the system.
2. Select DVD function.
3. Press **[I/⏻]** button again to turn off the system.
4. Press **[■]** button and **[I/⏻]** button simultaneously. The system will turn on automatically. The message “COLOR PAL” or “COLOR NTSC” appears on the fluorescent indicator tube.

[REMOTE DISABLE MODE]

- This mode let you disable the remote commander reception. When this mode is activated, the system will not response if the button on the remote commander is pressed. The message “RM DISABLE” appears on the fluorescent indicator tube. This mode is essential for conducting test and repairing when no interruption from the other remote commander is expected. This mode is cancelled automatically when the system is turned off.

Procedure:

1. Press **[I/⏻]** button to turn on the system.
2. Press **[■]** button, **[DIRECTION]** button and **[DISC 3]** button simultaneously until “SIRCS ON” or “SIRCS OFF” appears on the fluorescent indicator tube.

[PROGRESSIVE]

- This mode let you change the format of the video output from the COMPONENT OUT jacks among PROGRESSIVE AUTO, PROGRESSIVE VIDEO and INTERLACE.

Procedure:

1. Press **[I/⏻]** button to turn on the system.
2. Press **[DVD]** button and **[DISPLAY]** button simultaneously. “P AUTO” or “P VIDEO” or “INTERLACE” appears on the fluorescent indicator tube.

[MTK FIRMWARE DISPLAY]

- This mode is used to display the MTK firmware version.

Procedure:

1. Press **[I/⏻]** button to turn on the system.
2. Press **[DVD]** button to switch to DVD function.
3. Press **[I/⏻]** button again to turn off the system.
4. Press **[■]** button and **[I/⏻]** button. The system turns on automatically.
5. The version of MTK firmware appears on the TV screen.

[DVD SERVICE MODE]

- This mode let you make diagnosis and adjustment easily by using the remote commander and the TV. The instructions, diagnostic results, etc. are given on the on-screen display.

[DVD SERVICE MODE]

- This mode let you make diagnosis and adjustment easily by using the remote commander and the TV. The instructions, diagnostic results, etc. are given on the on-screen display.

• 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)

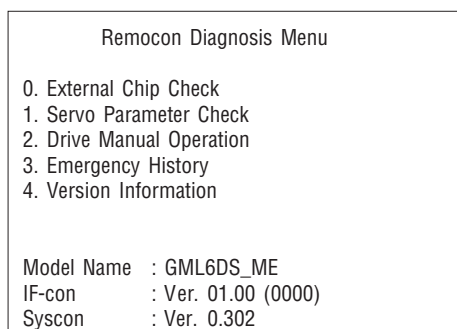
NTSC : HLX-501 (Part No.: J-6090-071-A)

HLX-505 (Part No.: J-6090-089-A)

PAL : HLX-507 (Part No.: J-6090-078-A)

• Procedure to enter to DVD Service Mode:

- Press **[I/⏻]** button to turn on the system.
- Select DVD function.
- Press **[■]** button and **[OPEN/CLOSE]** button simultaneously and then turn the **[VOLUME]** knob clockwise.
- The message "SERVICE IN" appears on the fluorescent indicator tube and the Top Menu of Remocon Diagnosis Menu appears on the on-screen display on the TV. The model name and revision number is displayed at the bottom of the on-screen display.

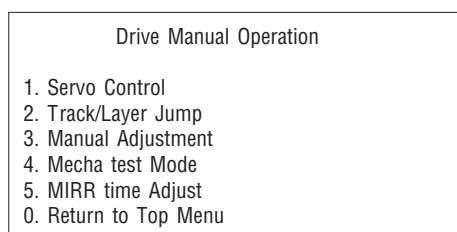


- To execute each function, press its number by using numeric button on the remote commander.
- To release from this mode, press **[I/⏻]** button to turn off the system.

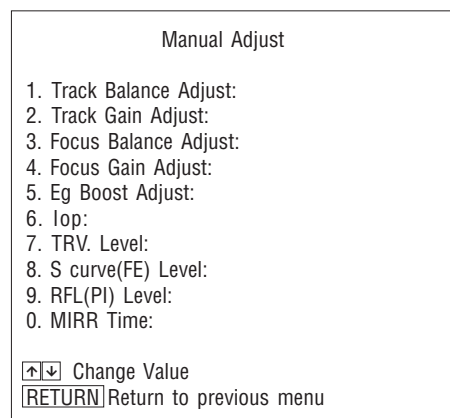
• Execute IOP Measurement

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

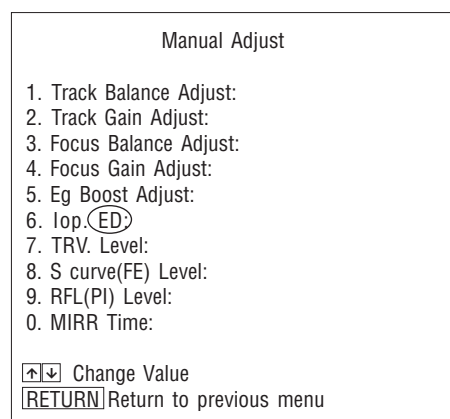
- From the Top Menu of Remocon Diagnosis Menu, select "2. Drive Manual Operation" by pressing the **[2]** button on the remote commander. The following screen appears on the on-screen display.



- Select "3. Manual Adjustment" by pressing the **[3]** button on the remote commander. The following screen appears on the on-screen display.



- Select "6. Iop:" by pressing **[6]** button on the remote commander.
- Wait until a hexadecimal number appears in the on-screen display as below:

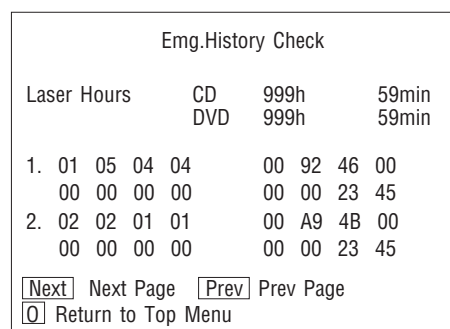


- Convert data from hexadecimal to decimal by using conversion table.
- Press **[RETURN]** button on the remote commander to return to previous menu.
- Press **[0]** button on the remote commander to return to the Top Menu of Remocon Diagnosis Menu.
- Press **[I/⏻]** button to turn off the system.

• Check Emergency History

To check the emergency history, please follow the following procedure.

- From the Top Menu of Remocon Diagnosis Menu, select "3. Emergency History" by pressing the **[3]** button on the remote commander. The following screen appears on the on-screen display.



- 2. You can check the total time when the laser is turned on during playback of DVD and CD from the above menu. The maximum time, which can be displayed are 999h 59min.
- 3. You can check the error code of latest 10 emergency history from the above menu. To view the previous or next page of emergency history, press or on the remote commander. The error code consists of

• Error Code

Example of Error code											
1.	01	05	04	04	00	92	46	00			
	00	00	00	00	00	00	23	45			

- The meaning of error code is as below:
- 01: Communication error (No reply from syscon)
 - 02: Syscon hung up
 - 03: Power OFF request when syscon hung up
 - 19: Thermal shutdown
 - 24: MoveSledHome error
 - 25: Mechanical move error (5 Changer)
 - 26: Mechanical move stack error
 - 30: DC motor adjustment error
 - 31: DPD offset adjustment error
 - 32: TE balance adjustment error
 - 33: TE sensor adjustment error
 - 34: TE loop gain adjustment error
 - 35: FE loop gain adjustment error
 - 36: Bad jitter after adjustment
 - 40: Focus NG
 - 42: Focus layer jump NG
 - 52: Open kick spindle error
 - 51: Spindle stop error
 - 60: Focus on error
 - 61: Seek fail error
 - 62: Read Q data/ID error
 - 70: Lead in data read fail
 - 71: TOC read time out (CD)
 - 80: Can't buffering
 - 81: Unknown media type

- Parameter of error code
This is the detail of error code.

Example of Error code											
1.	01	05	04	04	00	92	46	00			
	00	00	00	00	00	00	23	45			

- Time of error code
This is the laser time when an error occurred.

Example of Error code											
1.	01	05	04	04	00	92	46	00			
	00	00	00	00	00	00	23	45			

To clear the Laser Hour

Press button and then press button. The data for both CD and DVD data are reset.

Emg.History Check											
Laser Hours				CD	0h		0min				
				DVD	0h			0min			
1.	01	05	04	04	00	92	46	00			
	00	00	00	00	00	00	23	45			
2.	02	02	01	01	00	A9	4B	00			
	00	00	00	00	00	00	23	45			
Next Next Page				Prev Prev Page							
0 Return to Top Menu											

To clear the Emergency History

Press button and then press button. The error code for all emergency history would be reset.

Emg.History Check											
Laser Hours				CD DVD	999h 999h	59min 59min					
1.	00	00	00	00	00	00	00	00	00		
	00	00	00	00	00	00	00	00	00		
2.	00	00	00	00	00	00	00	00	00		
	00	00	00	00	00	00	00	00	00		
Next Next Page				Prev Prev Page							
0 Return to Top Menu											

To return to the Top Menu of Remocon Diagnosis Menu

Press button on the remote commander.

- Check Version Information
To check the version information, please follow the following procedure.
- 1. From the Top Menu of Remocon Diagnosis Menu, select “4. Version Information” by pressing the button on the remote commander. The following screen appears on the on-screen display.

Version information											
Firm (Main) : Ver. xxxxx											
Firm (Sub) : xxxxx											
RISC : xxxxx											
8032 : xxxxx											
Audio DSP : xxxxx											
Servo DSP : xxxxx											
Return to Top Menu											

To return to the Top Menu of Remocon Diagnosis Menu, press on the remote commander.

SECTION 5 MECHANICAL ADJUSTMENTS

Precaution

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

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

Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102C	2.9m N • m to 6.9m N • m 30 to 70 g • cm (0.42 – 0.97 oz • inch)
FWD back tension	CQ-102C	0.15m N • m to 0.59m N • m 2 to 6 g • cm (0.03 – 0.08 oz • inch)
REV	CQ-102RC	2.9m N • m to 6.9m N • m 30 to 70 g • cm (0.42 – 0.97 oz • inch)
REV back tension	CQ-102RC	0.15m N • m to 0.59m N • m 2 to 6 g • cm (0.03 – 0.08 oz • inch)
FF/REW	CQ-201B	4.8m N • m to 16.7m N • m 49 to 170 g • cm (0.68 – 2.36 oz • inch)

SECTION 6 ELECTRICAL ADJUSTMENTS

DVD SECTION

Checking Location: DMB15 board (Side A)

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

- 1) MIRROR TIME ADJUSTMENT
- 2) EXECUTING IOP MEASUREMENT (See page 19)

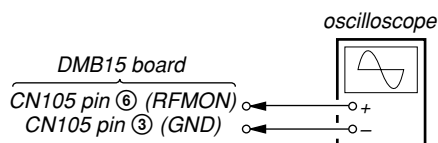
[TEST DISC LIST]

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)

[RFMON Level Check]

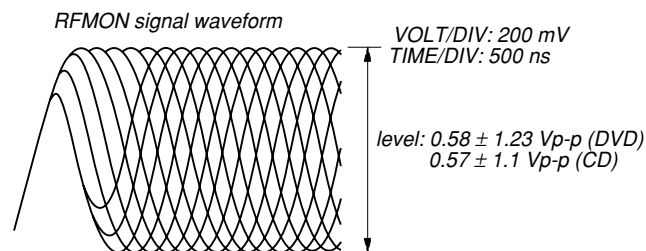
Connection:



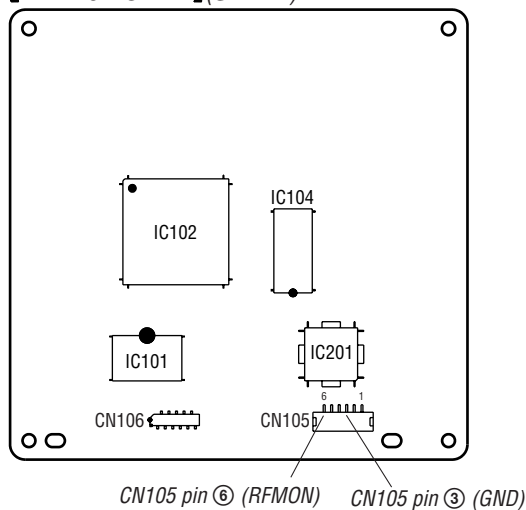
Procedure:

1. Connect an oscilloscope to CN105 pin ⑥ (RFMON) and CN105 pin ③ (GND) on the DMB15 board.
2. Turn the power on.
3. Set the test disc (refer to the TEST DISC LIST) on the tray and press button to playback.
4. Confirm that oscilloscope waveform is clear and check RFMON signal level is correct or not.

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



【DMB15 BOARD】(SIDE A)

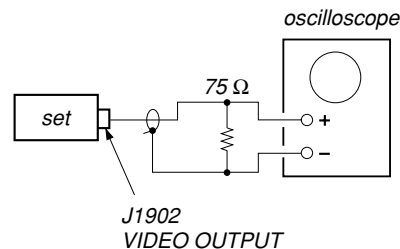


VIDEO SECTION

Video Level Check (VIDEO BOARD)

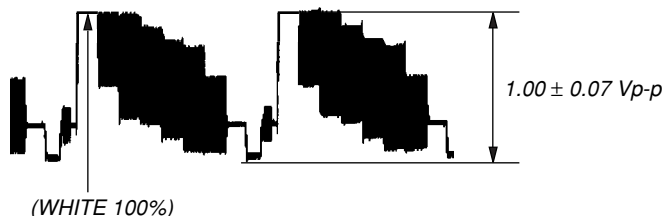
Purpose

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



Procedure:

1. Connect oscilloscope to VIDEO output.
2. Load a DVD reference disc playback.
3. Check the video signal level is $1.00 \pm 0.07 \text{ Vp-p}$.



DECK SECTION

0 dB=0.775 V

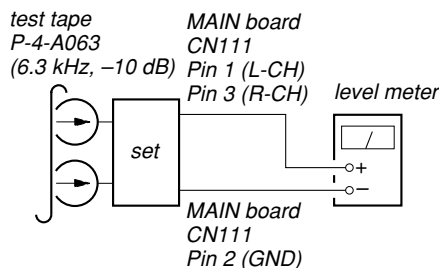
1. Demagnetize the record/playback head with a head demagnetizer.
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjust.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.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

• Test Tape

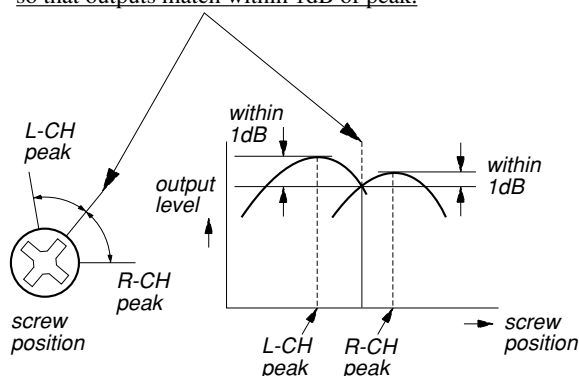
Tape	Signal	Used for
P-4-A063	6.3 kHz, -10 dB	Azimuth Adjustment

Record/Playback Head Azimuth Adjustment**DECK A****DECK B****Note:** Perform this adjustments for both decks**Procedure:**

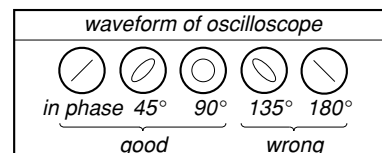
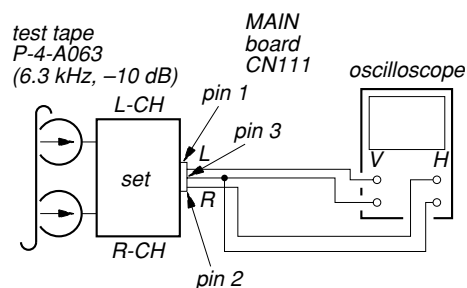
1. Mode: Playback



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



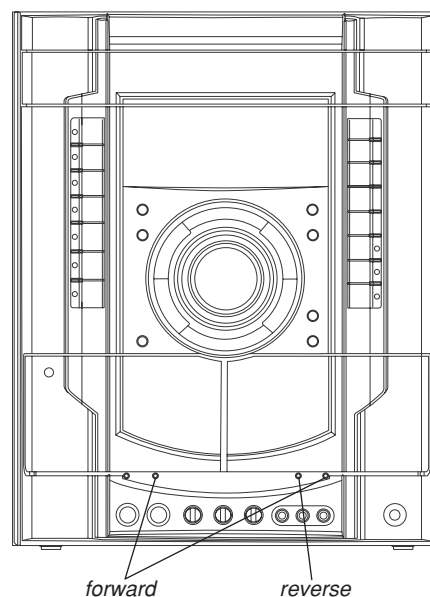
3. Mode: Playback



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

Adjustment Location: Playback Head (Deck A).

Record/Playback/Erase Head (Deck B).



MEMO

For Schematic Diagrams.

- Note:**
- All capacitors are in μF unless otherwise noted. (p: pF) 50 V or less are not indicated except for electrolytics and tantalums.
 - All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
 - % : indicates tolerance.
 - Δ : internal component.
 -  : nonflammable resistor.
 -  : fusible resistor.

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

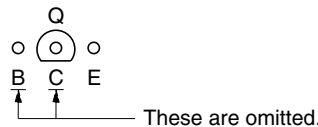
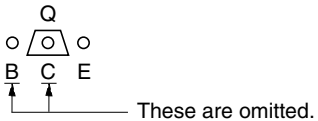
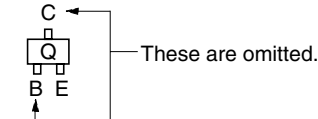
-  : panel designation.
-  : B+ Line.
-  : B- Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
DMB15 and VIDEO boards
no mark : DVD PLAY
Other board
no mark : TUNER (FM/AM)
() : DVD PLAY
< > : TAPE PLAY
[] : TAPE REC
* : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 M Ω).
Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 : AUDIO
 : TUNER
 : TAPE PLAY (DECK A)
 : TAPE PLAY (DECK B)
 : REC (DECK B)
 : DIGITAL
 : MIC
 : DVD/CD (RF)
 : VIDEO
 : Y
 : CHROMA
 : COMPONENT VIDEO
 : R, G, B

Note on Printed Wiring Boards.

- Note:**
-  : parts extracted from the component side.
 -  : Pattern from the side which enables seeing.
(The other layers' patterns are not indicated.)

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

- Indication of transistor.

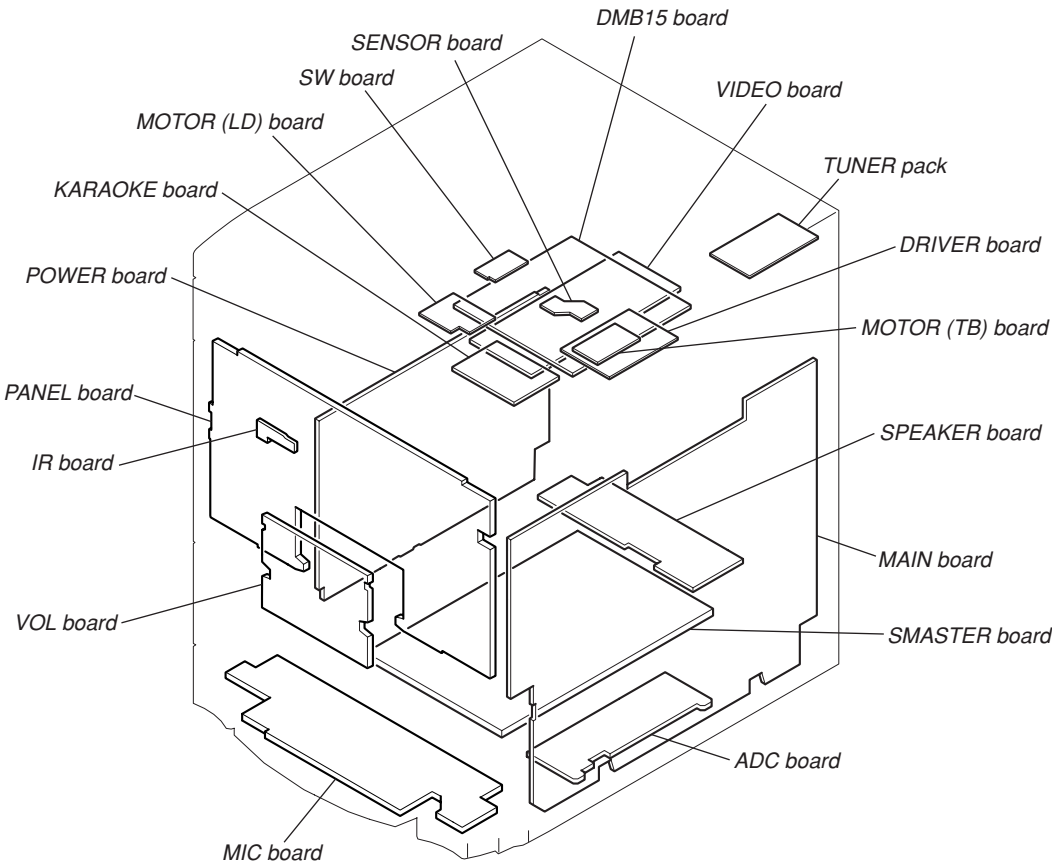


- Abbreviation
E2 : 120V AC Area in E model
E3 : 240V AC Area in E model
E12 : 220V-240V AC Area in E model
E13 : 220-230V AC area in E model
E15 : Iran model
E51 : Chilean and Perurian model
EA : Saudi Arabia model
MX : Mexican model
MY : Malaysia model
PH : Philippines model
SP : Singapore model
TH : Thai model

NOTE ON REPLACEMENT OF DMB15 BOARD

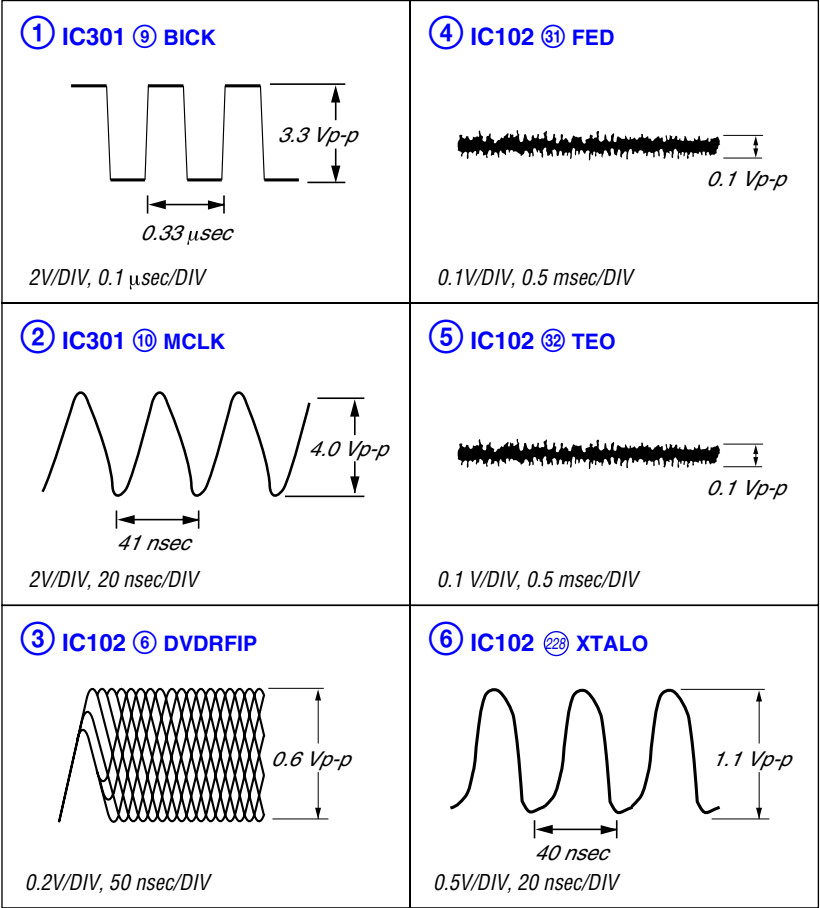
New part of EEPROM (IC103) on the DMB15 board cannot be used. Therefore, if the mounted DMB15 board (A-1167-802-A or A-1167-915-A or A-1188-872-A) is replaced, exchange new EEPROM with that used before the replacement.

• Circuit Boards Location

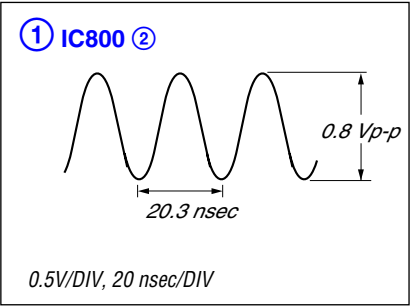


HCD-GN999D

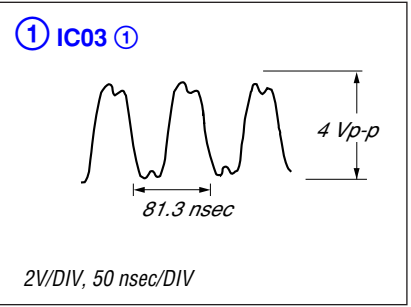
- Waveforms
- DMB15 Board –



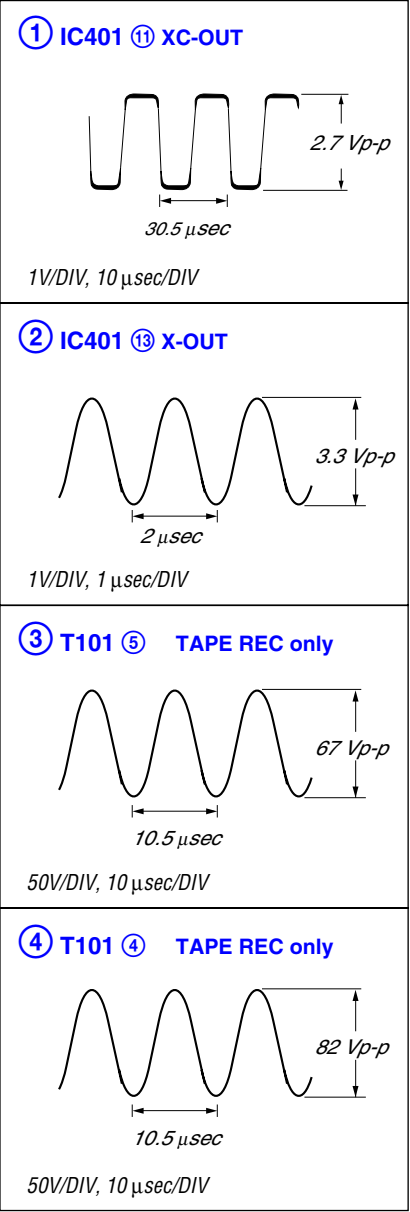
– SMASTER Board –



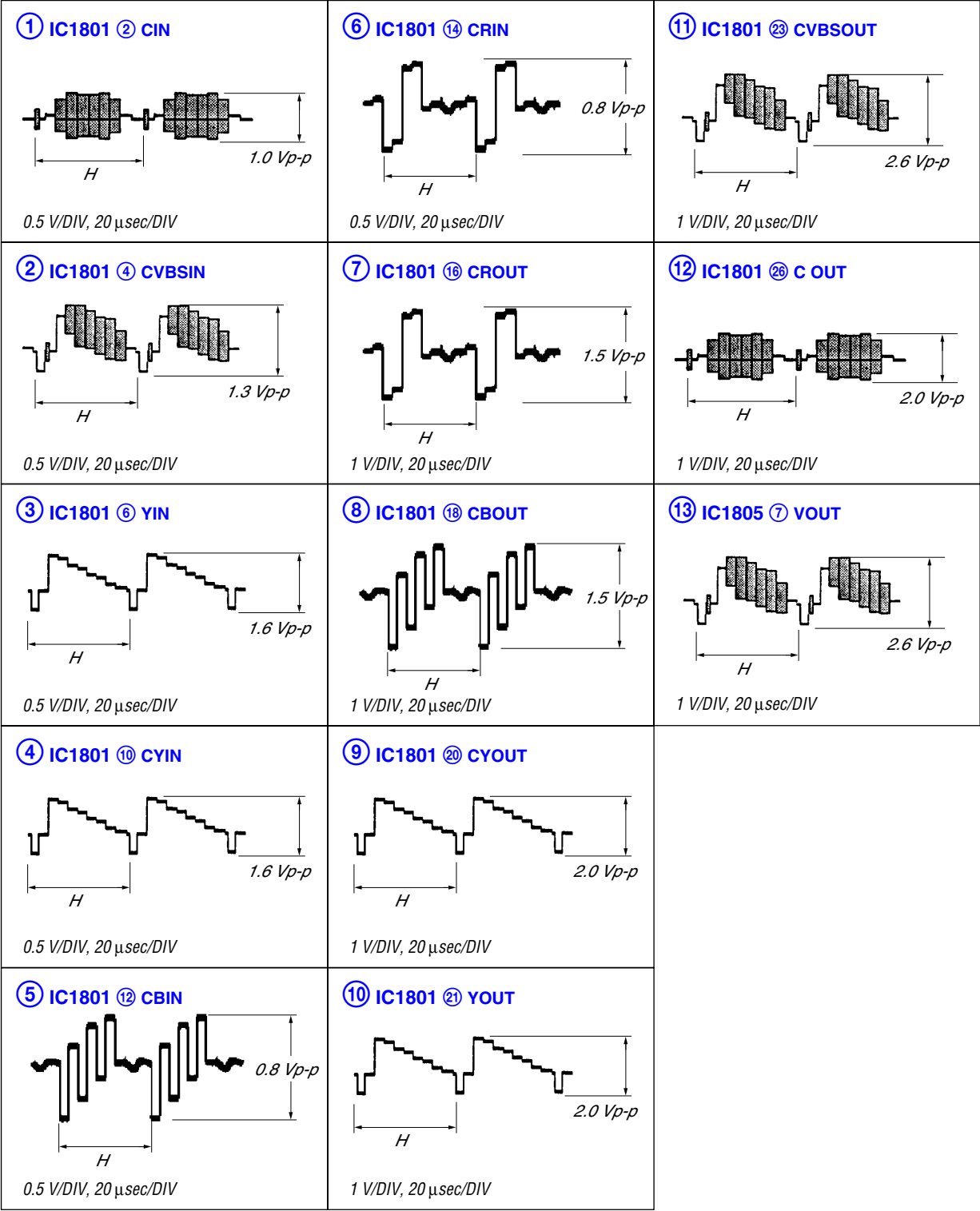
– ADC Board –



– MAIN Board –

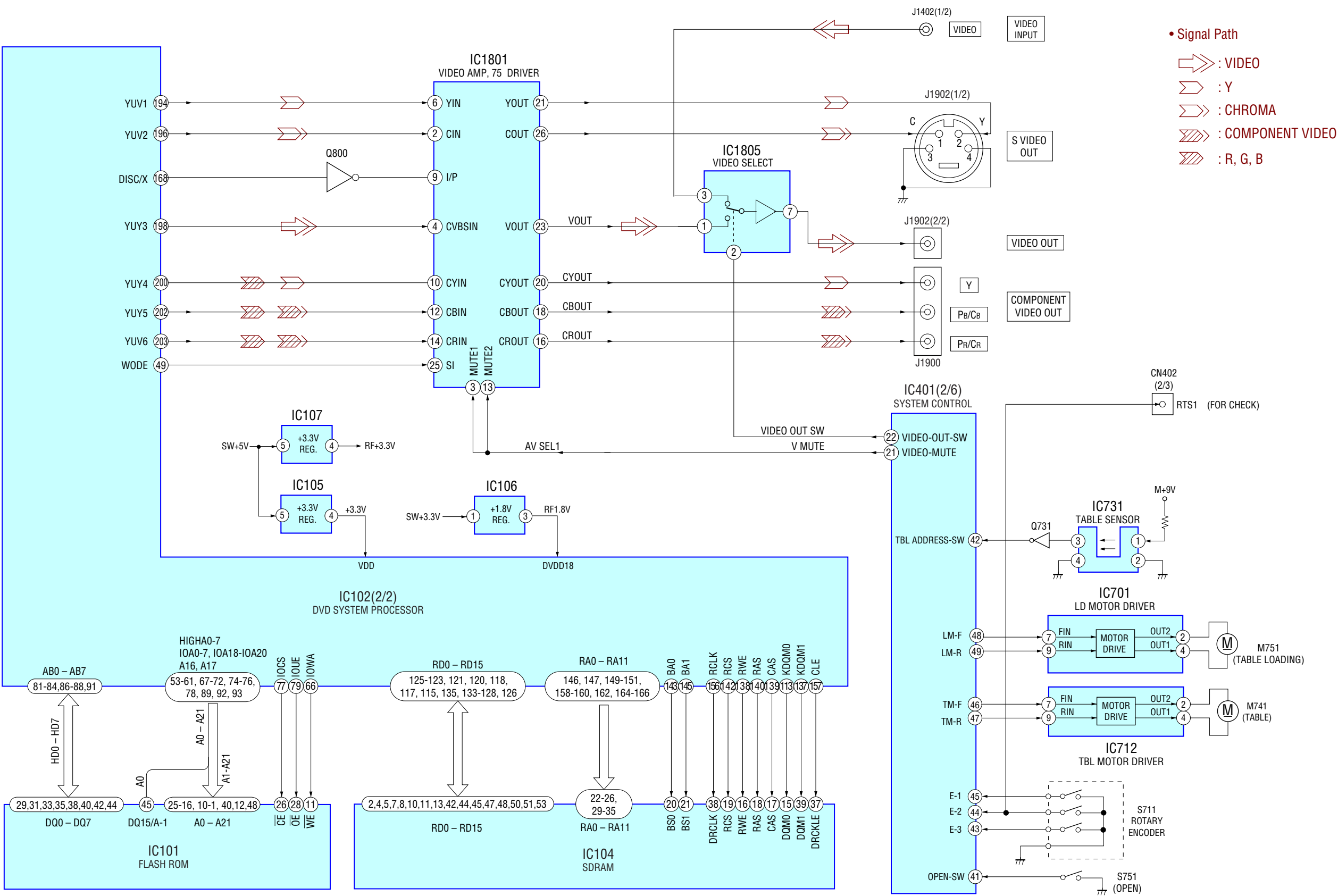


– VIDEO Board –

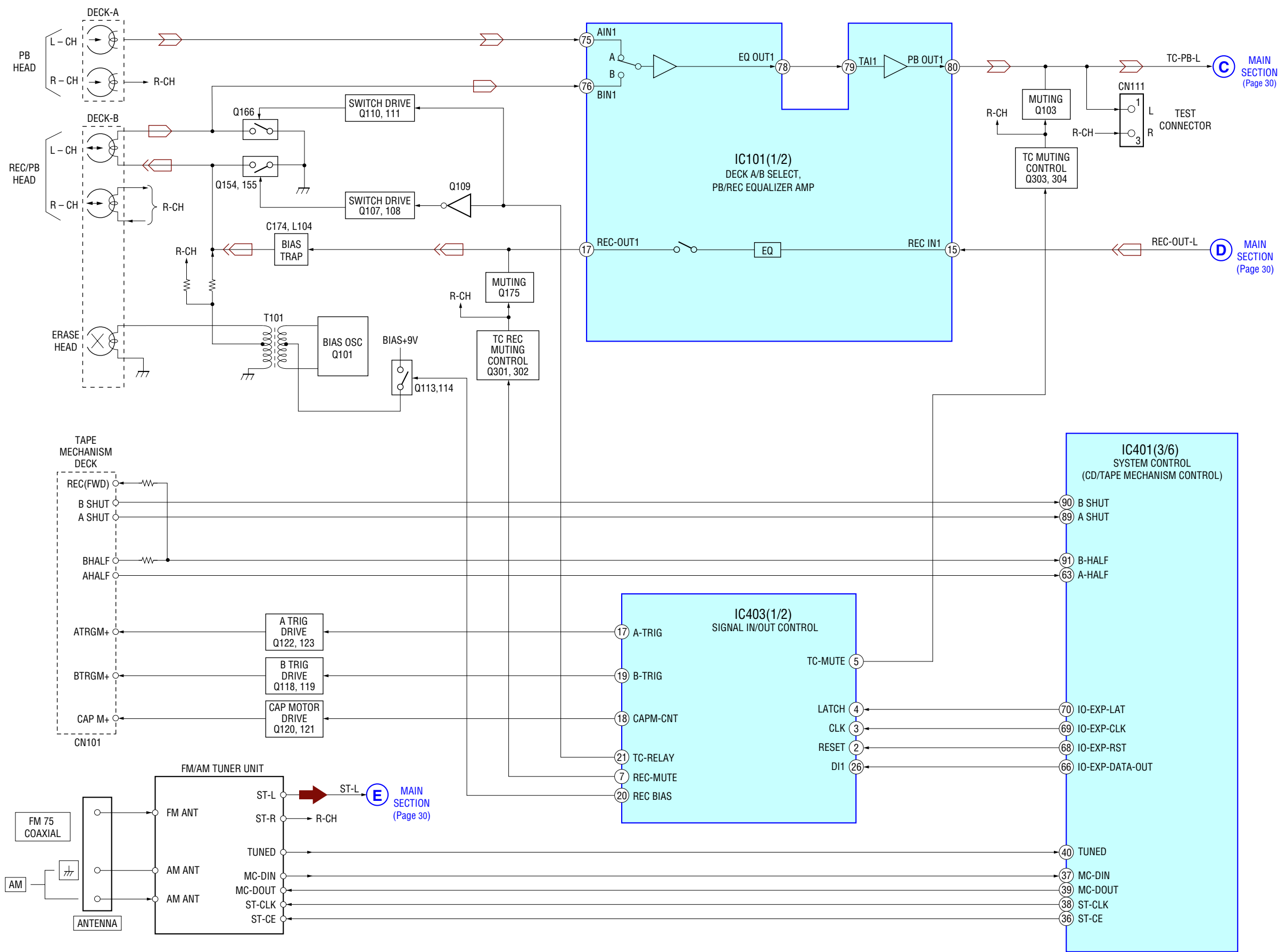




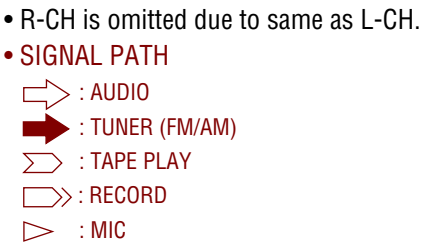
7-2. BLOCK DIAGRAM – VIDEO SECTION –



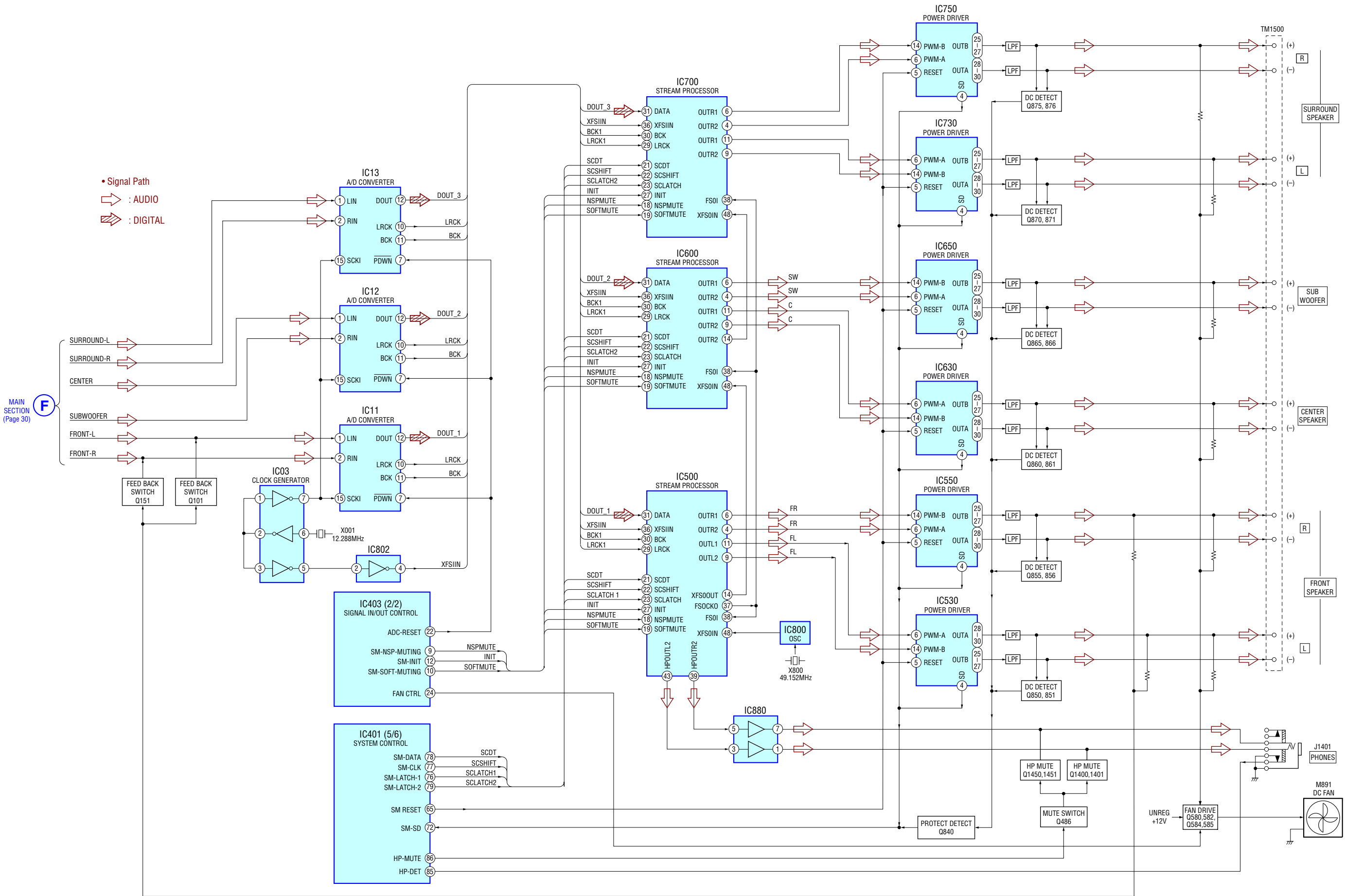
7-3. BLOCK DIAGRAM – TAPE/TUNER SECTION –



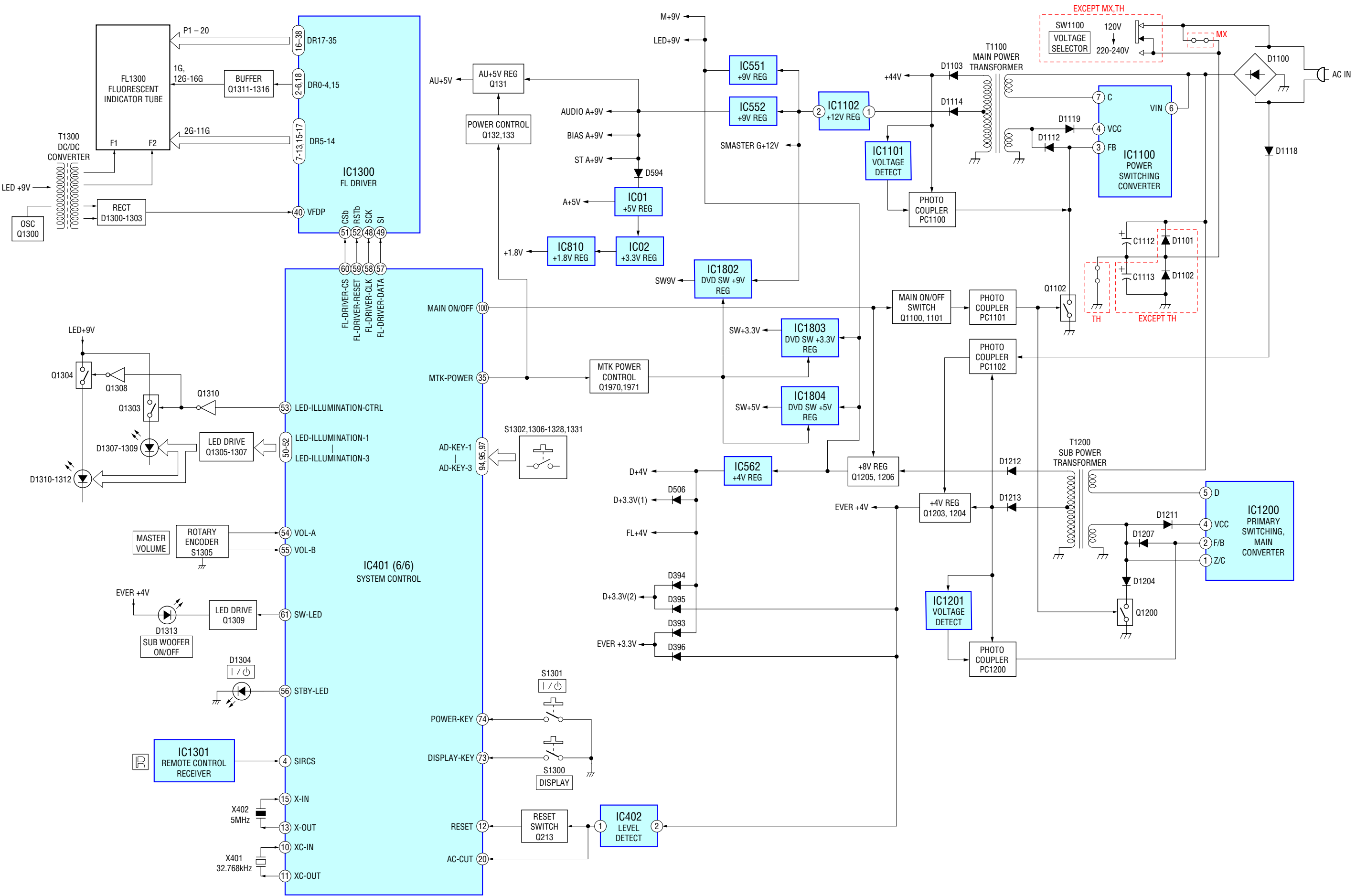
• R-CH is omitted due to same as L-CH.
 • SIGNAL PATH
 ➡ : TUNER (FM/AM)
 ➡ : PLAYBACK (DECK A)
 ➡ : PLAYBACK (DECK B)
 ➡ : RECORD

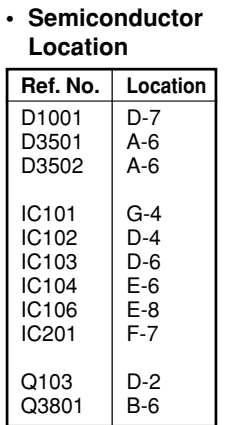


7-5. BLOCK DIAGRAM – AMP SECTION –



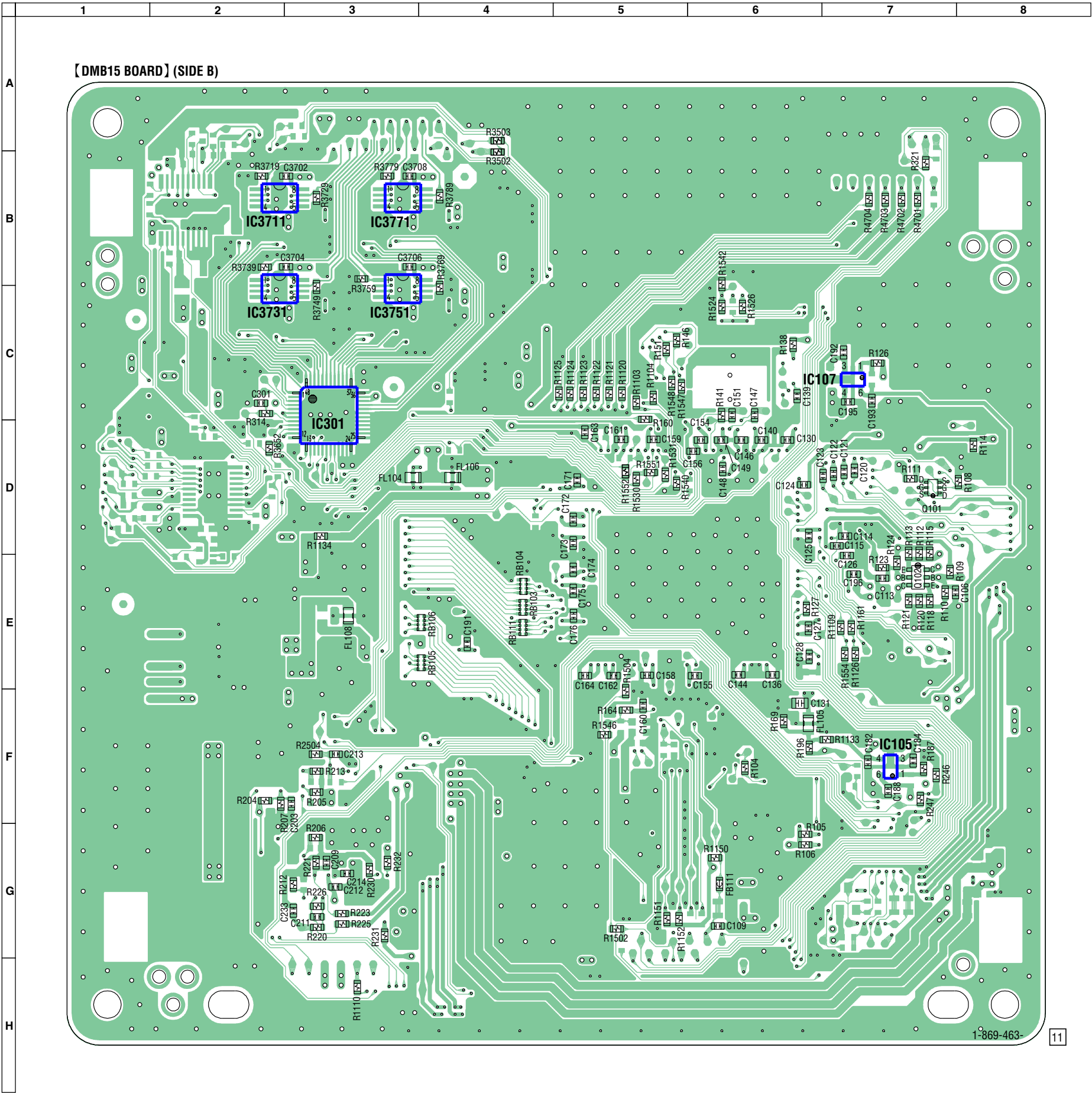
7-6. BLOCK DIAGRAM – DISPLAY/POWER SECTION –





NOTE ON REPLACEMENT OF DMB15 BOARD
New part of EEPROM (IC103) on the DMB15 board cannot be used. Therefore, if the mounted DMB15 board (A-1167-802-A or A-1167-915-A or A-1188-872-A) is replaced, exchange new EEPROM with that used before the replacement.

7-8. PRINTED WIRING BOARD – DMB15 BOARD (SIDE B) – • See page 25 for Circuit Boards Location.  :Uses unleaded solder.



• Semiconductor Location

Ref. No.	Location
IC105	F-7
IC107	C-7
IC301	C-3
IC3711	B-2
IC3731	C-2
IC3751	C-3
IC3771	B-3
Q101	D-7
Q102	E-7

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DMB15 BOARD (1/4)

IC301 AK4358VQ-L D/A CONVERTER

IC3711 NJM3414AV FRONT L/R AMP

IC3731 NJM3414AV SURR L/R AMP

IC3751 NJM3414AV C/SB AMP

IC3771 NJM3414AV DM L/R AMP

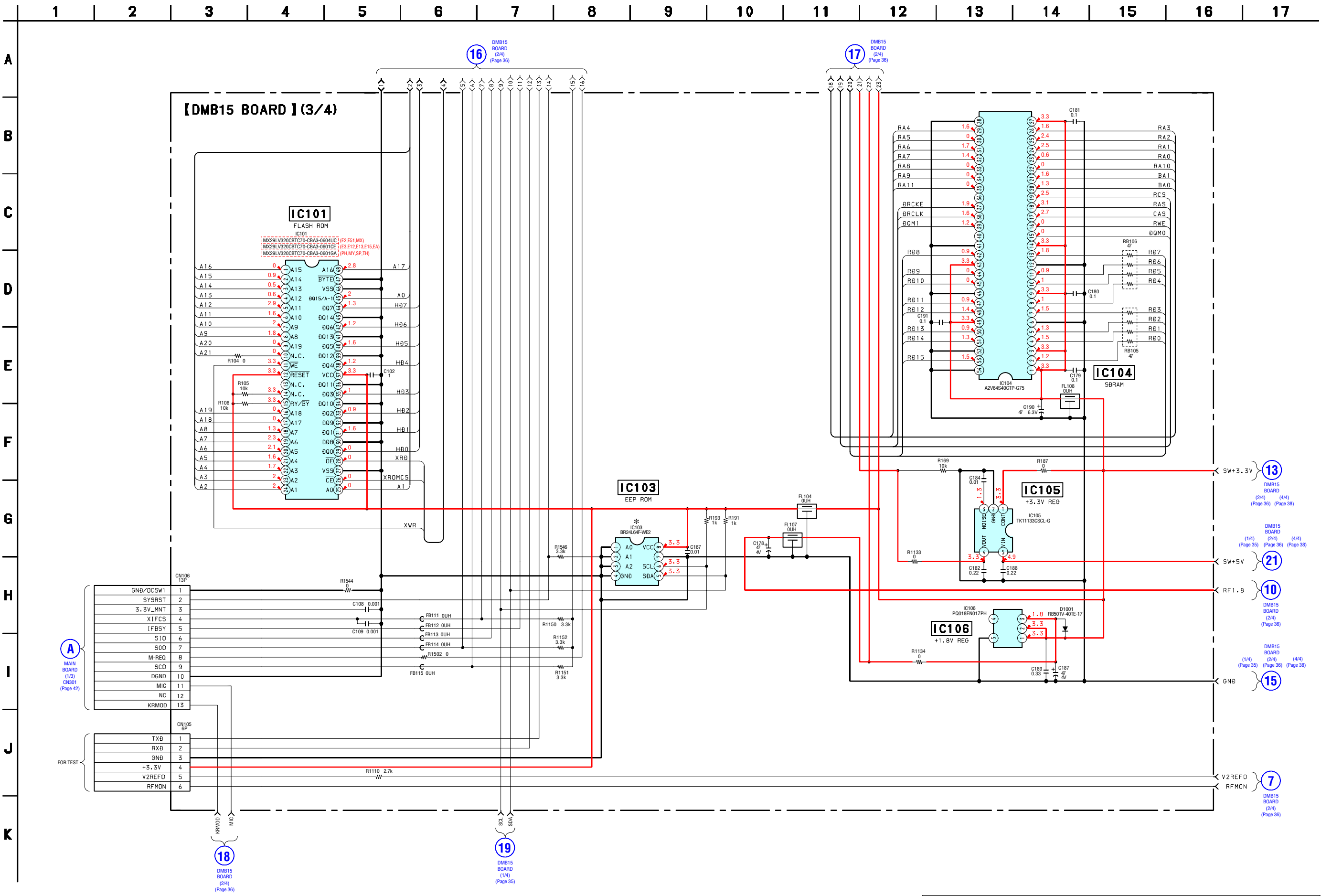
Q3801 2SC2712-YG BIAS

Connector Table:

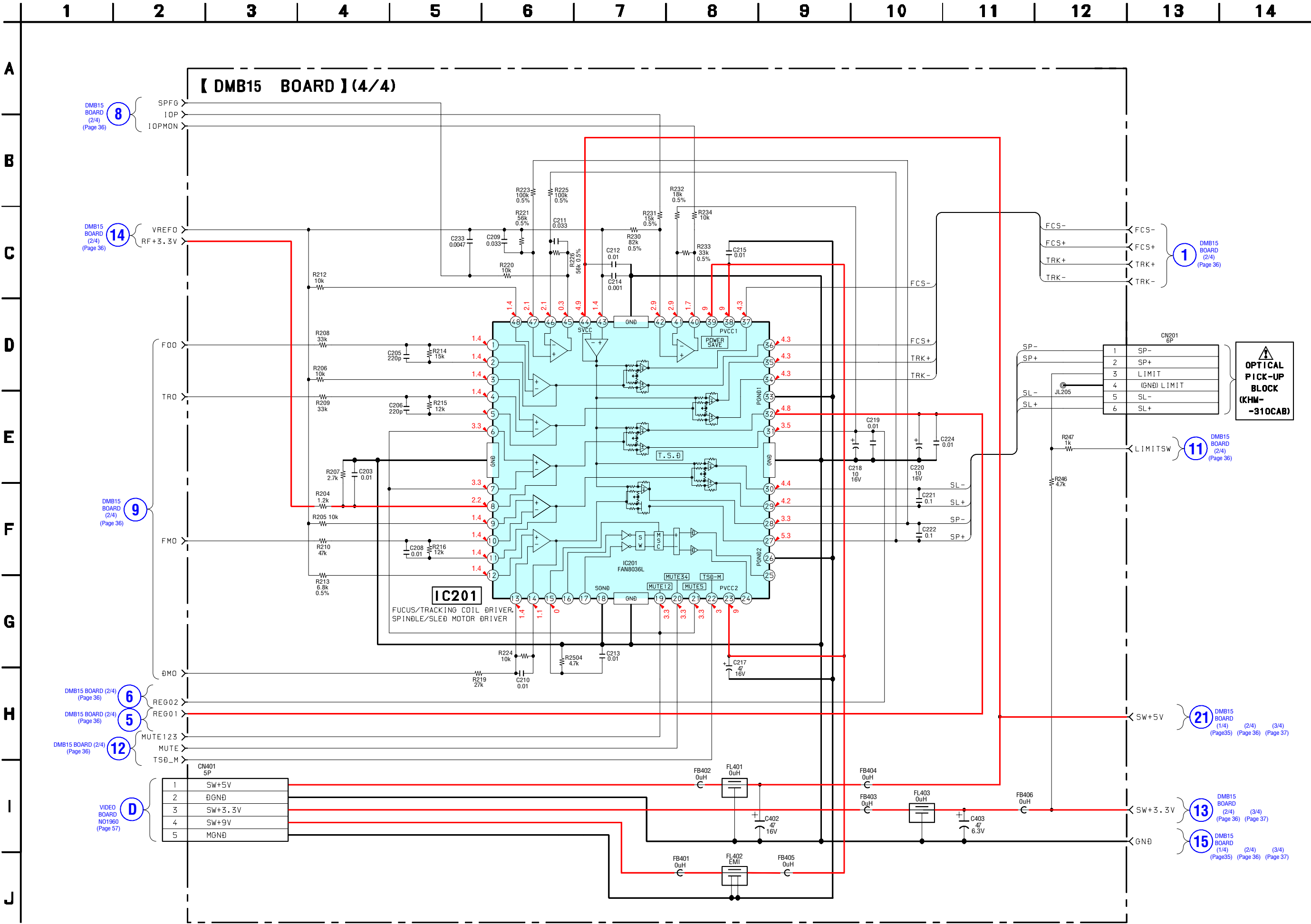
Pin	Signal
1	XVOICE
2	SCORE
3	D-GND
4	SPDIF
5	D-GND
6	RT
7	A_GND
8	LT
9	A_GND
10	SW (LFE)
11	FC
12	SR
13	SL
14	A_GND
15	FR
16	A_GND
17	FL
18	AU+5V
19	A_GND



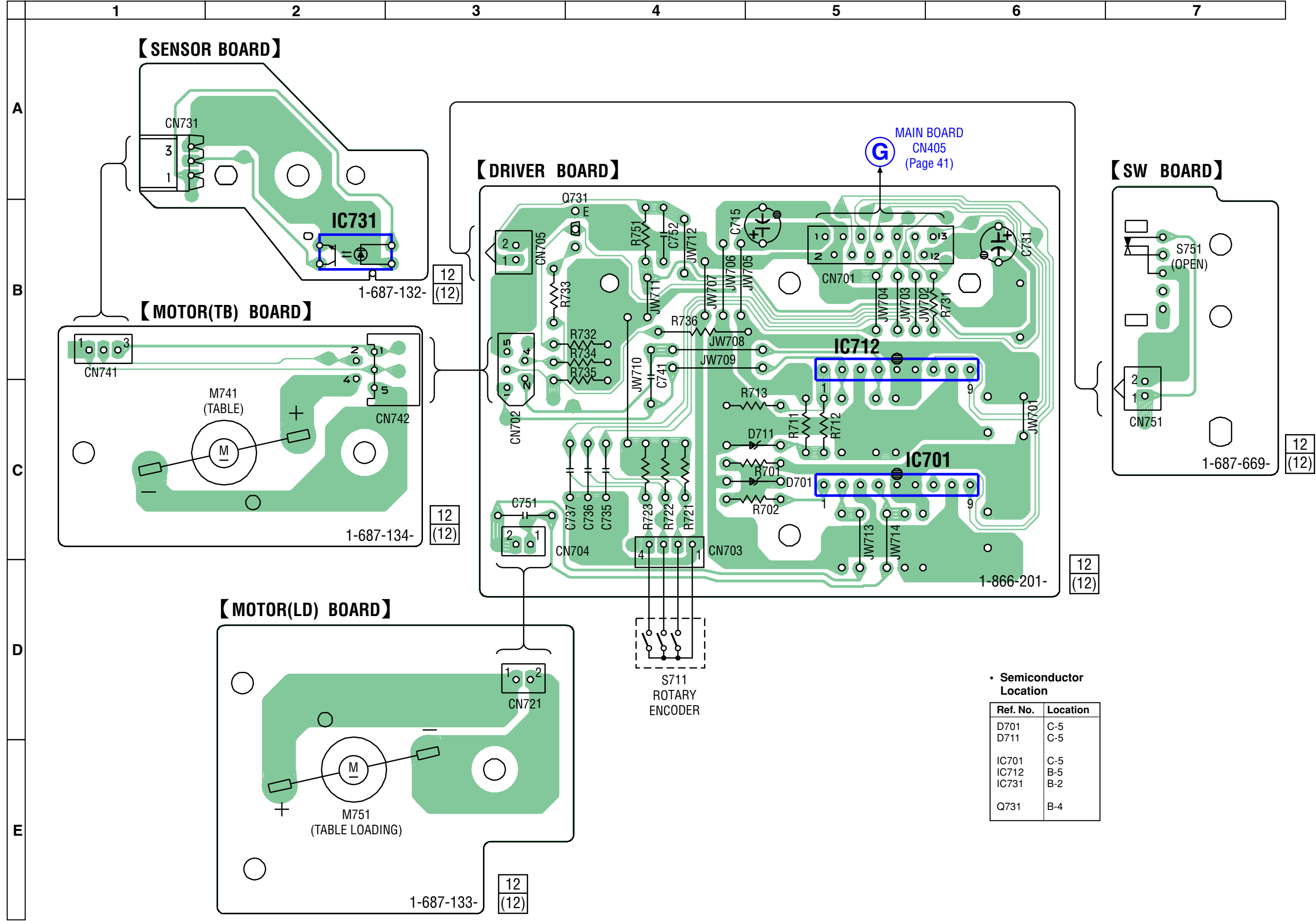
7-11. SCHEMATIC DIAGRAM – DMB15 BOARD (3/4) –



NOTE ON REPLACEMENT OF DMB15 BOARD
 New part of EEPROM (IC103) on the DMB15 board cannot be used. Therefore, if the mounted DMB15 board (A-1167-802-A or A-1167-915-A or A-1188-872-A) is replaced, exchange new EEPROM with that used before the replacement.

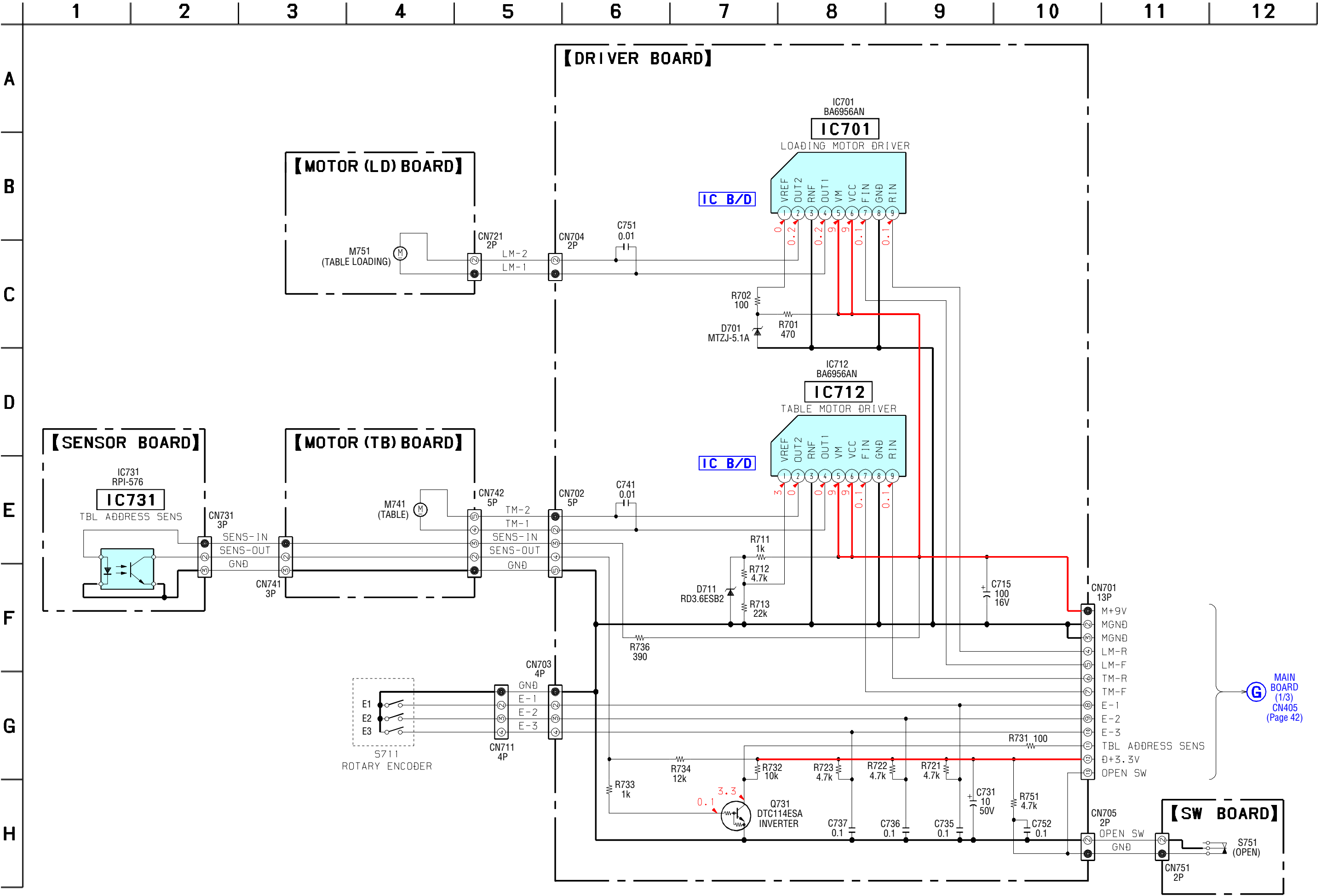


7-13. PRINTED WIRING BOARDS – CD MECHANISM SECTION – • See page 25 for Circuit Boards Location.  :Uses unleaded solder.



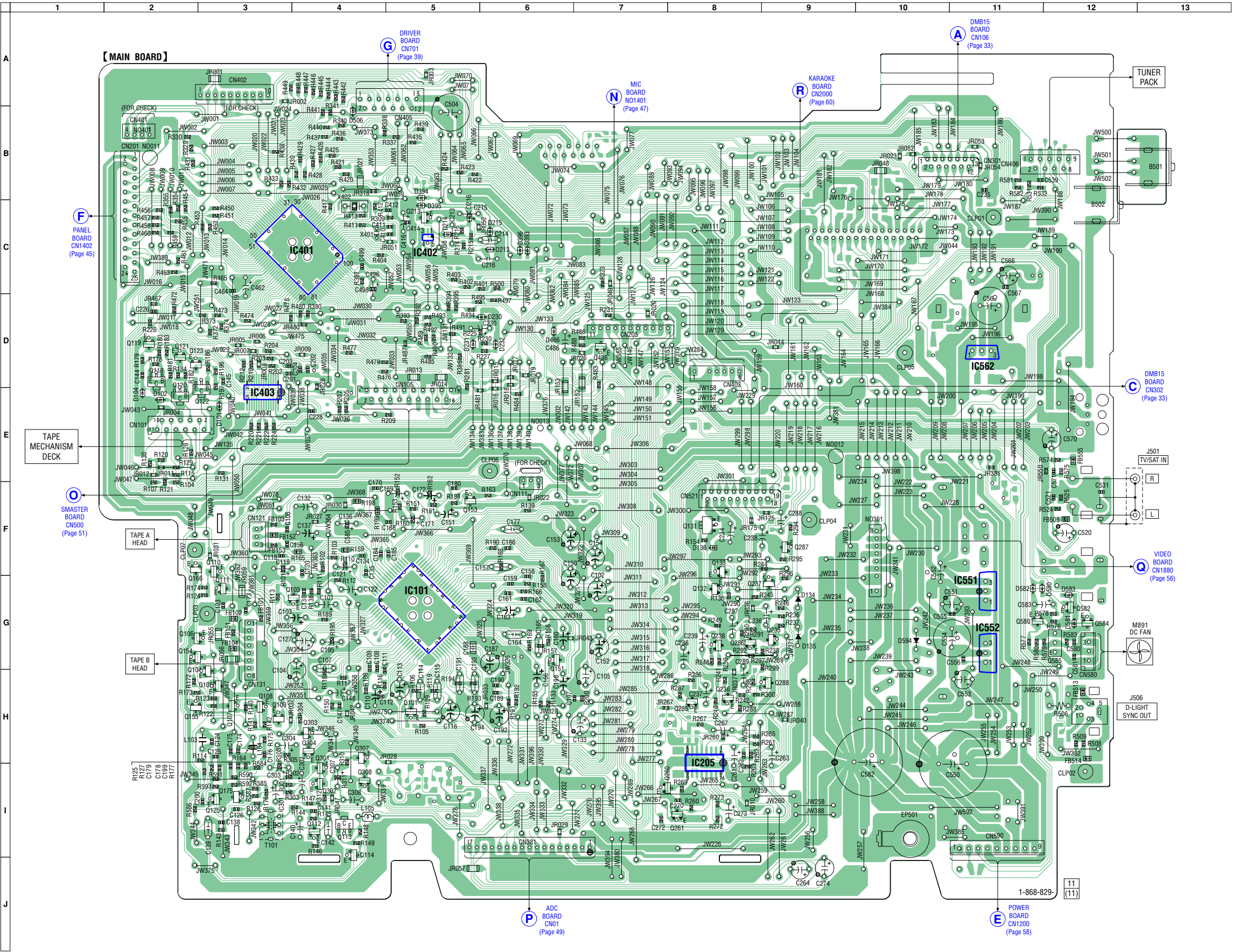
• Semiconductor Location

Ref. No.	Location
D701	C-5
D711	C-5
IC701	C-5
IC712	B-5
IC731	B-2
Q731	B-4



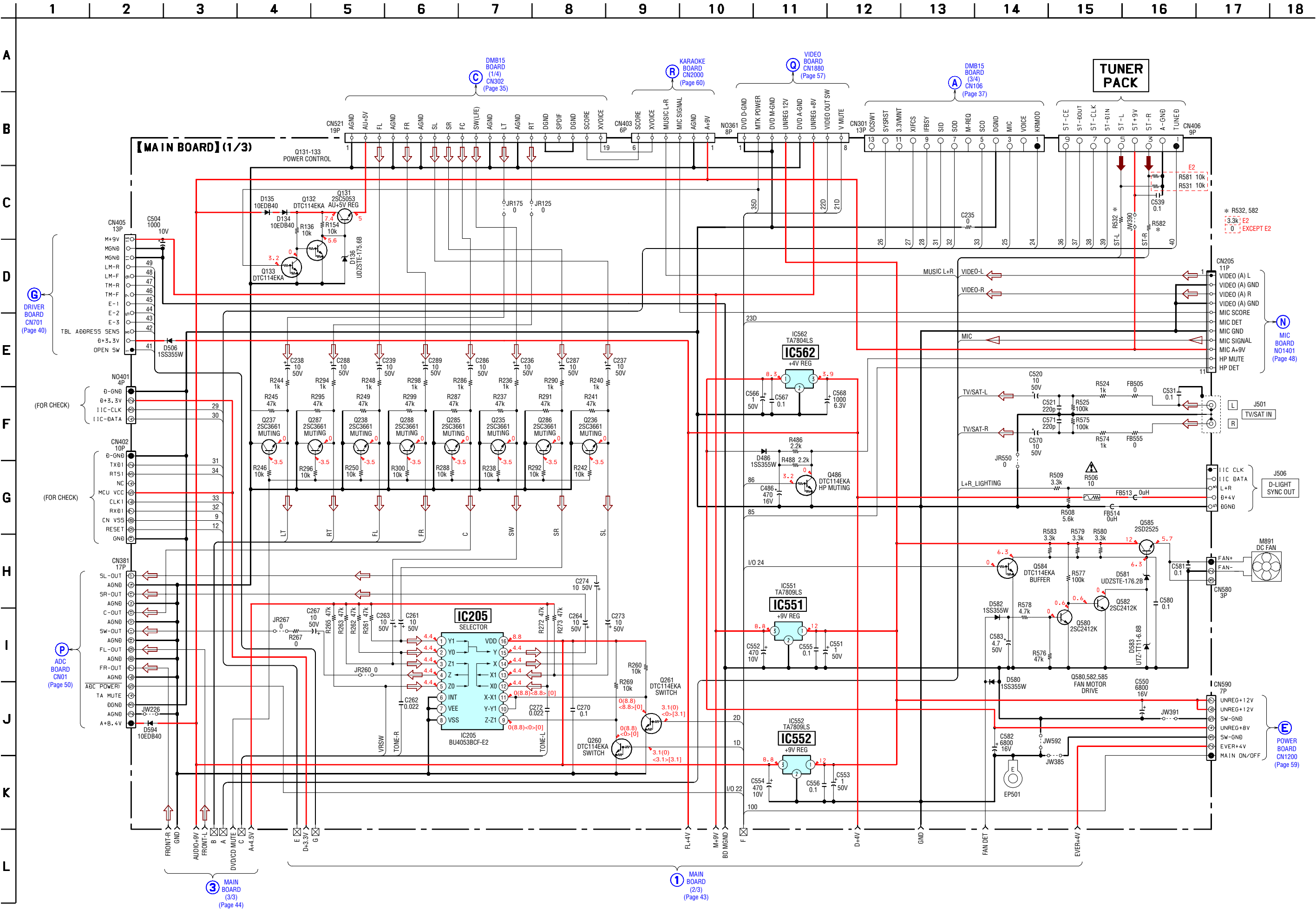
MAIN BOARD (1/3) CN405 (Page 42)

7-15. PRINTED WIRING BOARD – MAIN BOARD – • See page 25 for Circuit Boards Location. :Uses unleaded solder.



• Semiconductor Location

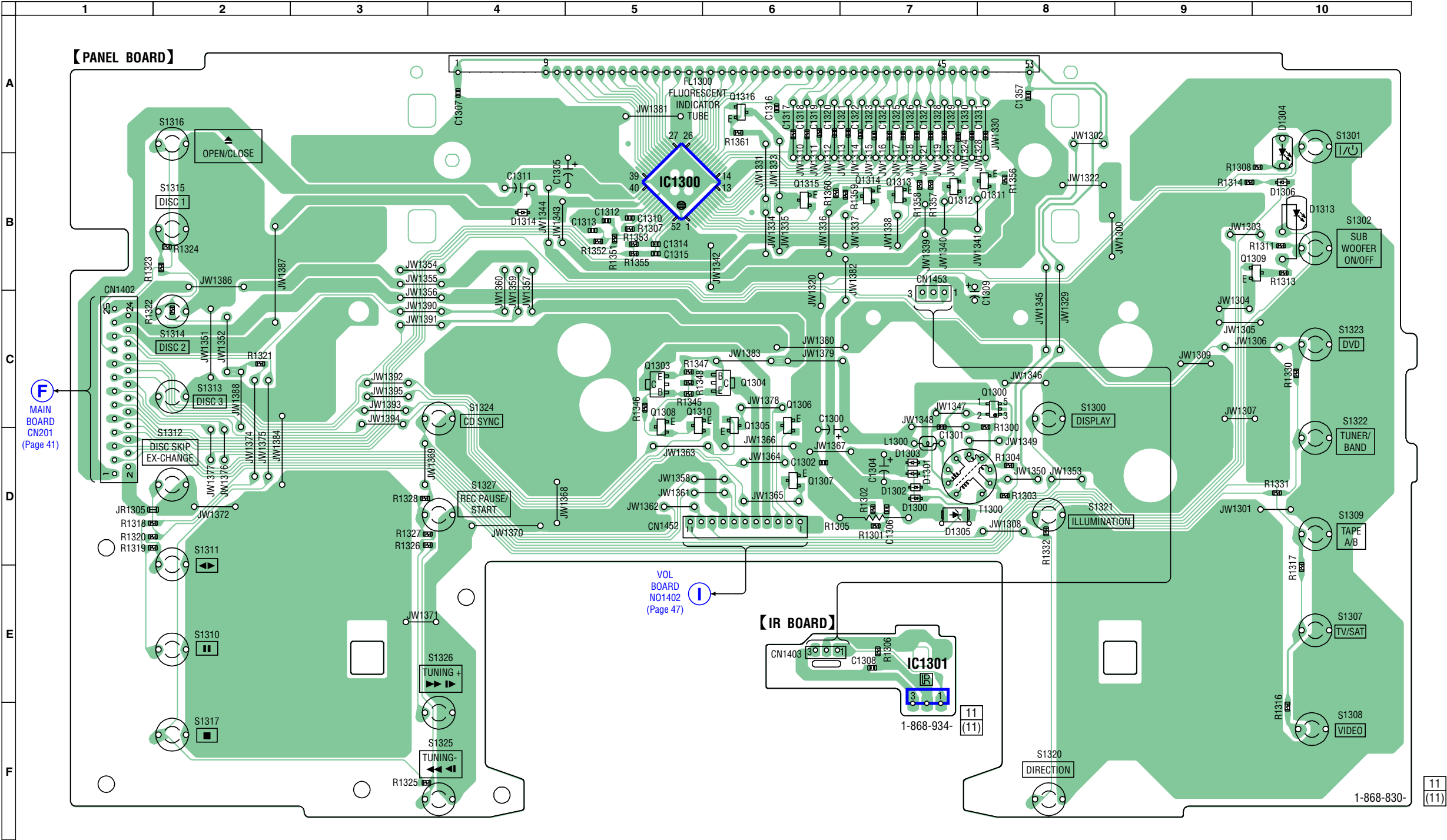
Ref. No.	Location	Ref. No.	Location
D101	E-3	Q111	G-3
D102	E-2	Q112	I-4
D104	E-2	Q113	I-4
D134	G-9	Q114	I-4
D135	G-9	Q118	D-2
D136	F-8	Q119	D-2
D213	C-6	Q120	D-2
D214	C-5	Q121	D-2
D215	C-6	Q122	E-3
D216	C-5	Q123	D-2
D230	D-6	Q125	I-3
D231	D-5	Q131	F-8
D232	D-6	Q132	G-8
D393	C-6	Q133	F-8
D394	B-5	Q151	G-6
D395	C-5	Q153	F-5
D396	C-6	Q154	G-2
D486	D-6	Q155	H-2
D506	B-4	Q166	G-2
D580	G-12	Q175	I-3
D581	G-12	Q213	C-5
D582	G-11	Q235	G-9
D583	G-12	Q236	H-8
D594	G-10	Q237	G-8
		Q238	G-8
		Q260	I-8
IC101	G-5	Q261	I-8
IC205	H-8	Q285	H-8
IC401	C-4	Q286	G-8
IC402	C-5	Q287	F-9
IC403	E-3	Q288	H-9
IC551	G-11	Q301	H-4
IC552	G-11	Q302	I-4
IC562	D-11	Q303	H-4
		Q304	H-4
		Q307	H-4
		Q308	I-4
Q101	H-5	Q486	D-7
Q103	G-3	Q580	G-11
Q104	H-2	Q582	G-12
Q105	H-3	Q584	G-12
Q106	G-2	Q585	G-12
Q107	H-3		
Q108	H-3		
Q109	H-3		
Q110	F-3		







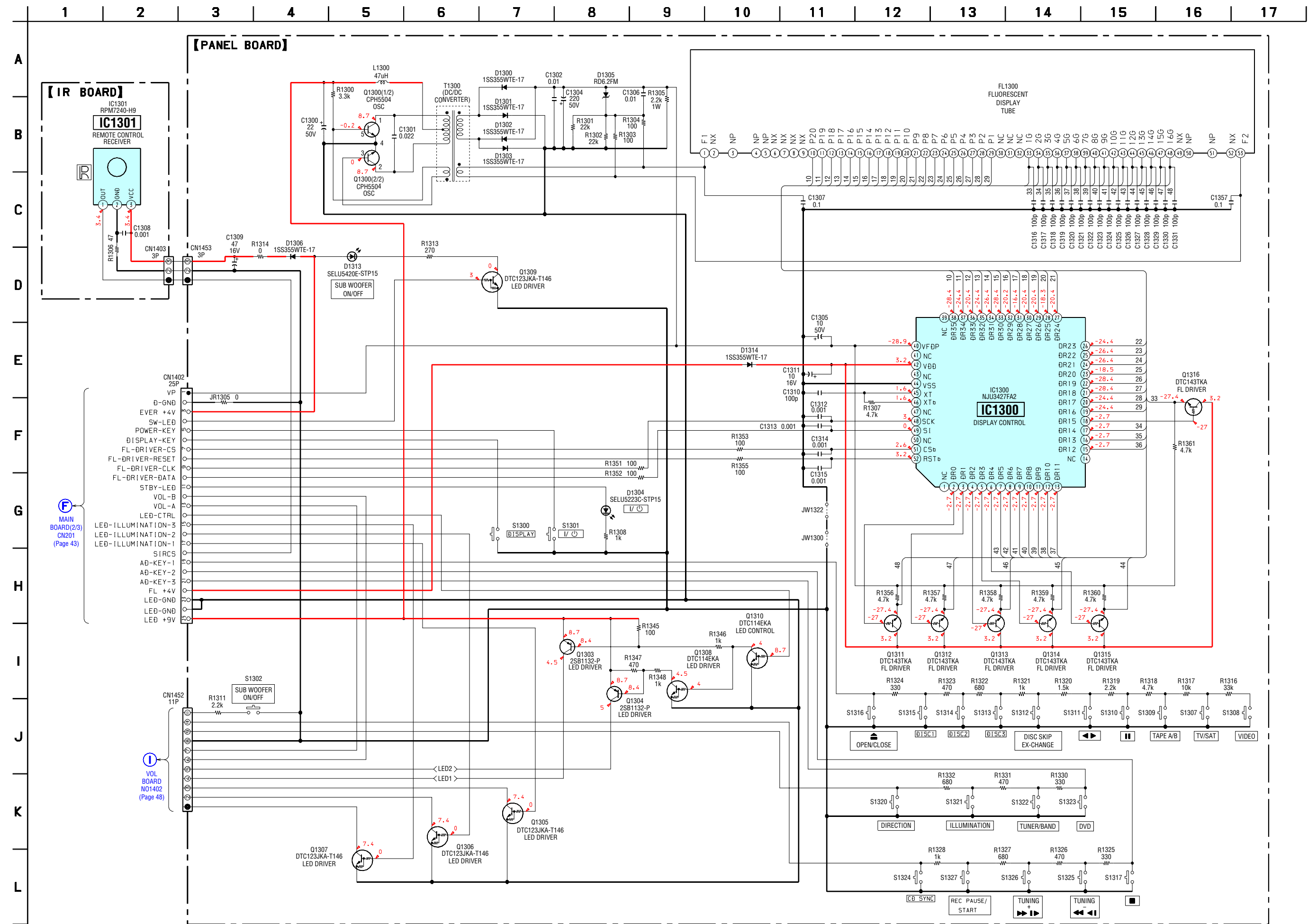
7-19. PRINTED WIRING BOARD – PANEL SECTION – • See page 25 for Circuit Boards Location.  :Uses unleaded solder.



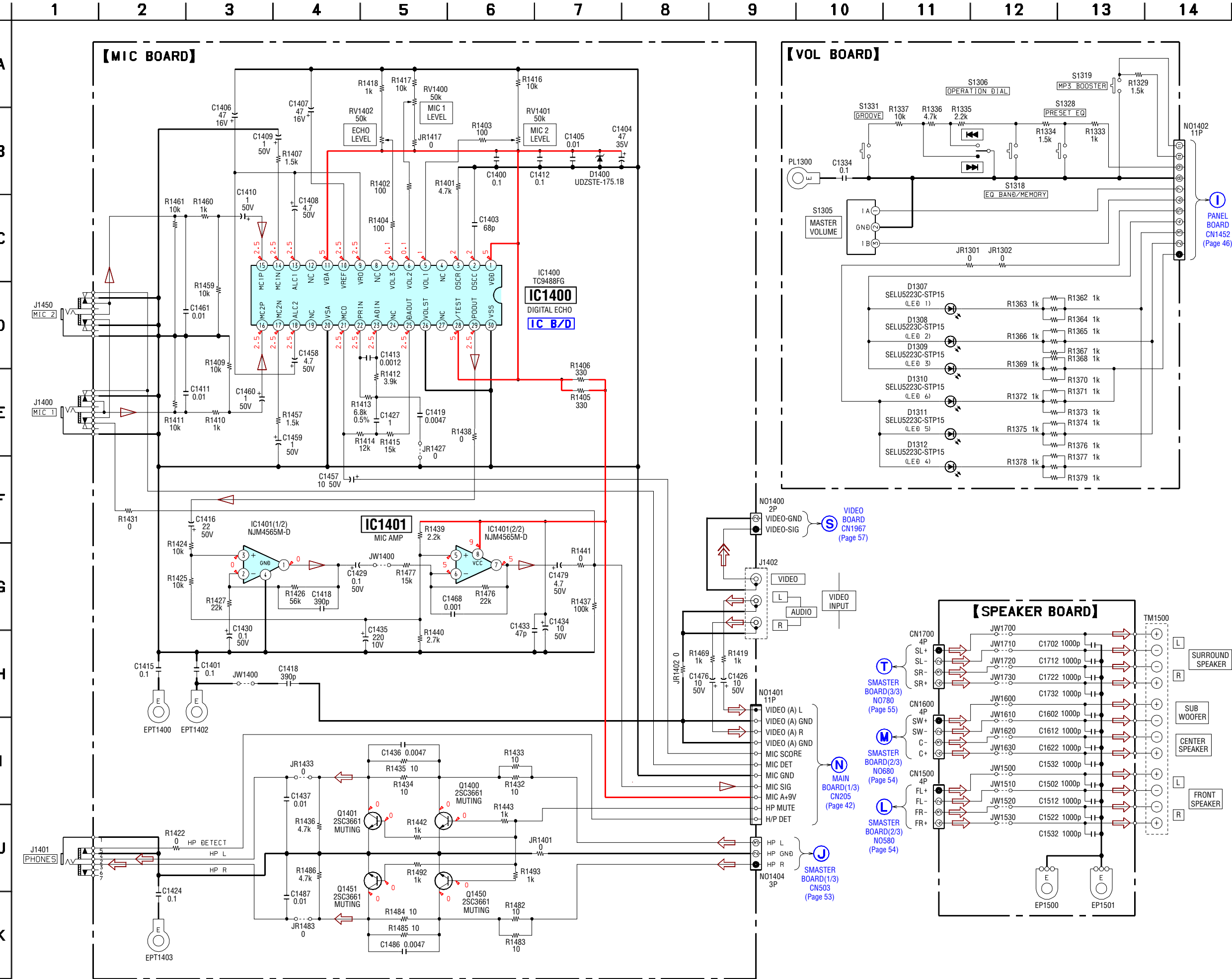
• Semiconductor Location

Ref. No.	Location
D1300	D-7
D1301	D-7
D1302	D-7
D1303	D-7
D1304	A-10
D1305	D-7
D1306	B-10
D1313	B-10
D1314	B-4
IC1300	B-5
IC1301	E-7
Q1300	C-8
Q1303	C-5
Q1304	C-6
Q1305	C-6
Q1306	C-6
Q1307	D-6
Q1308	C-5
Q1309	B-10
Q1310	C-5
Q1311	B-8
Q1312	B-7
Q1313	B-7
Q1314	B-7
Q1315	B-6
Q1316	A-6

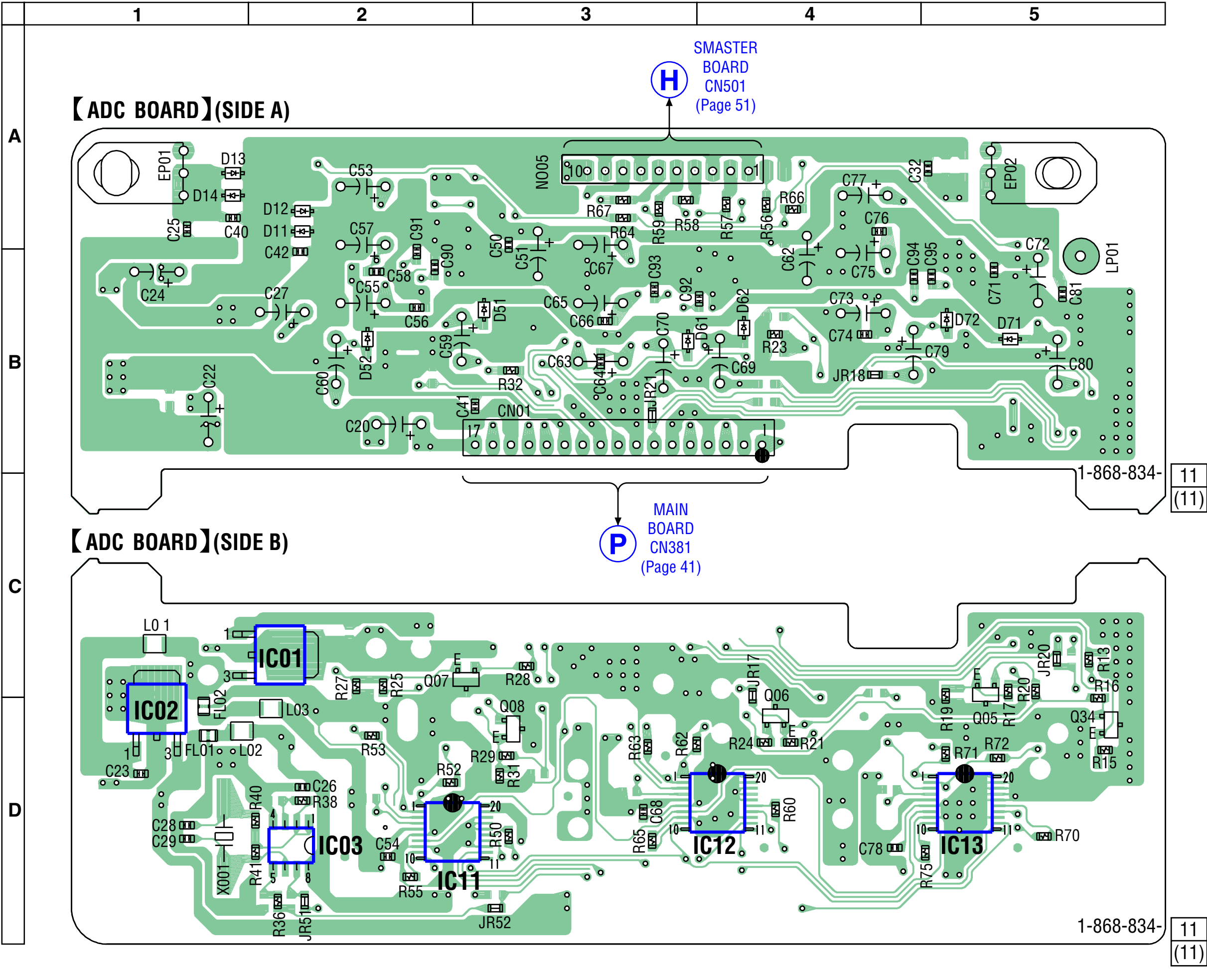
7-20. SCHEMATIC DIAGRAM – PANEL SECTION –







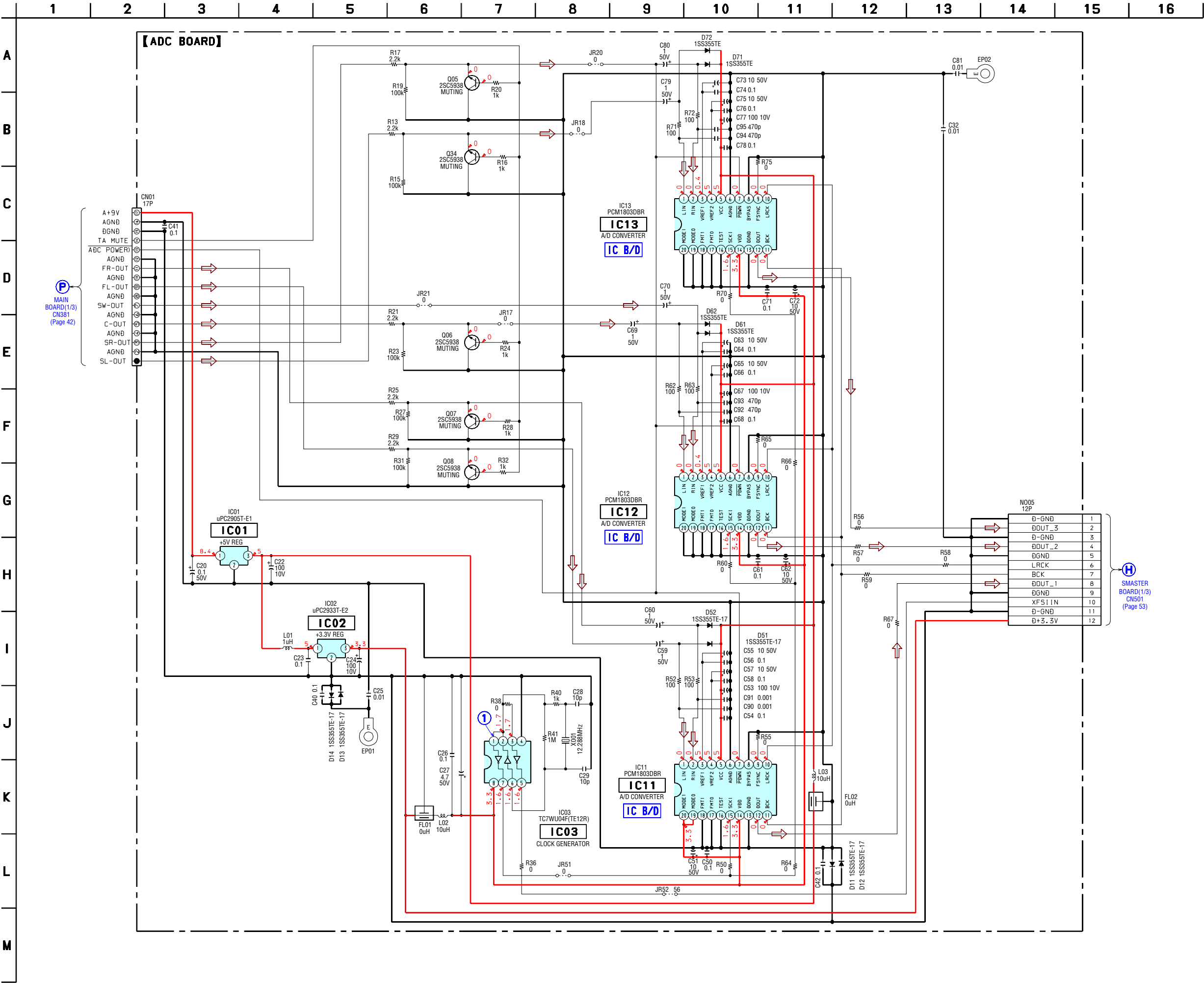
7-23. PRINTED WIRING BOARD – ADC BOARD – • See page 25 for Circuit Boards Location.  :Uses unleaded solder.



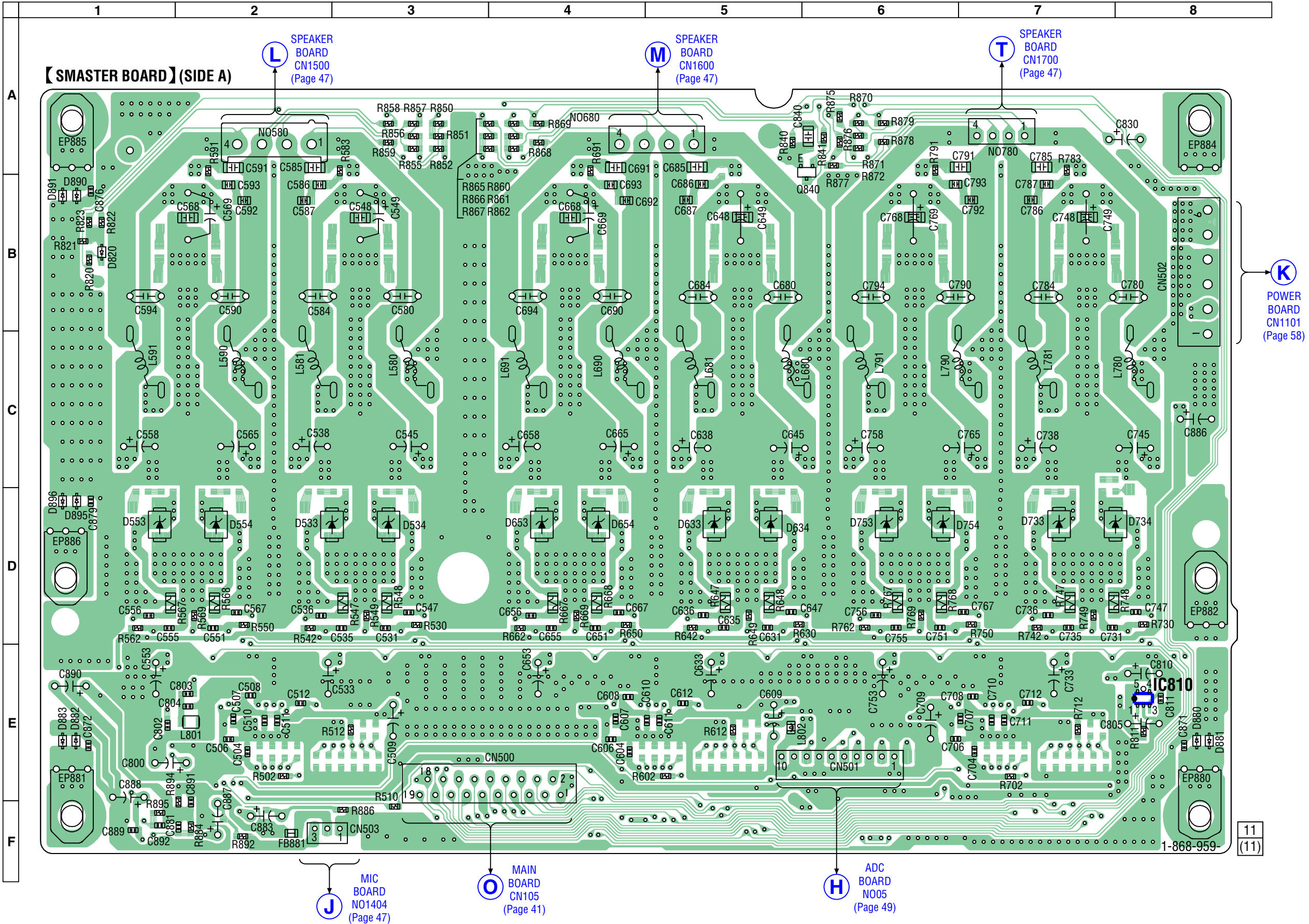
• Semiconductor Location

Ref. No.	Location
D11	A-2
D12	A-2
D13	A-1
D14	A-1
D51	B-3
D52	B-2
D61	B-4
D62	B-4
D71	B-5
D72	B-5
IC01	C-2
IC02	D-1
IC03	D-2
IC11	D-2
IC12	D-4
IC13	D-5
Q05	D-5
Q06	D-4
Q07	C-2
Q08	D-3
Q34	D-5

7-24. SCHEMATIC DIAGRAM – ADC BOARD – • See page 26 for Waveform. • See page 61 for IC Block Diagrams.



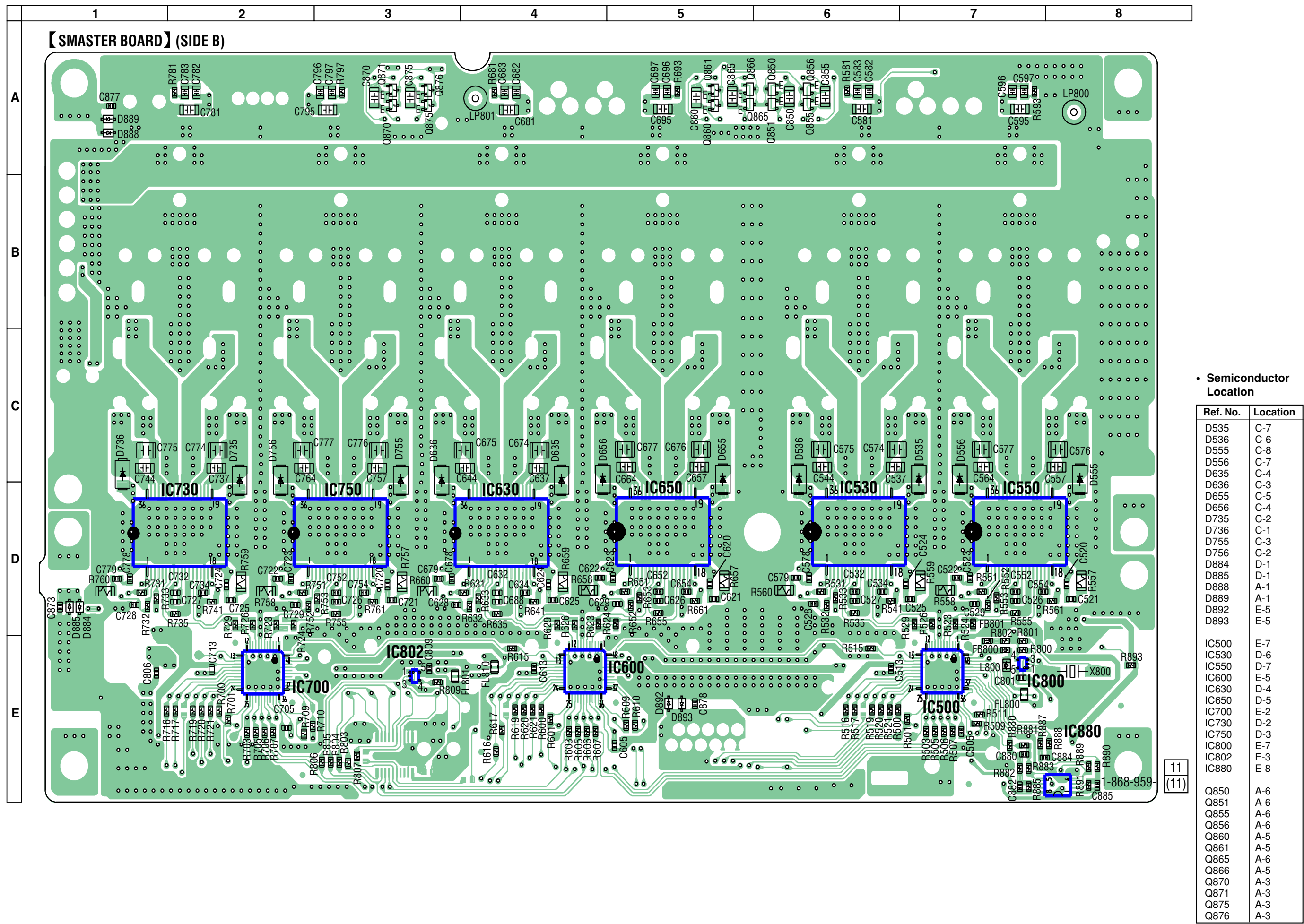
7-25. PRINTED WIRING BOARD – SMASTER BOARD (SIDE A) – • See page 25 for Circuit Boards Location.  :Uses unleaded solder.



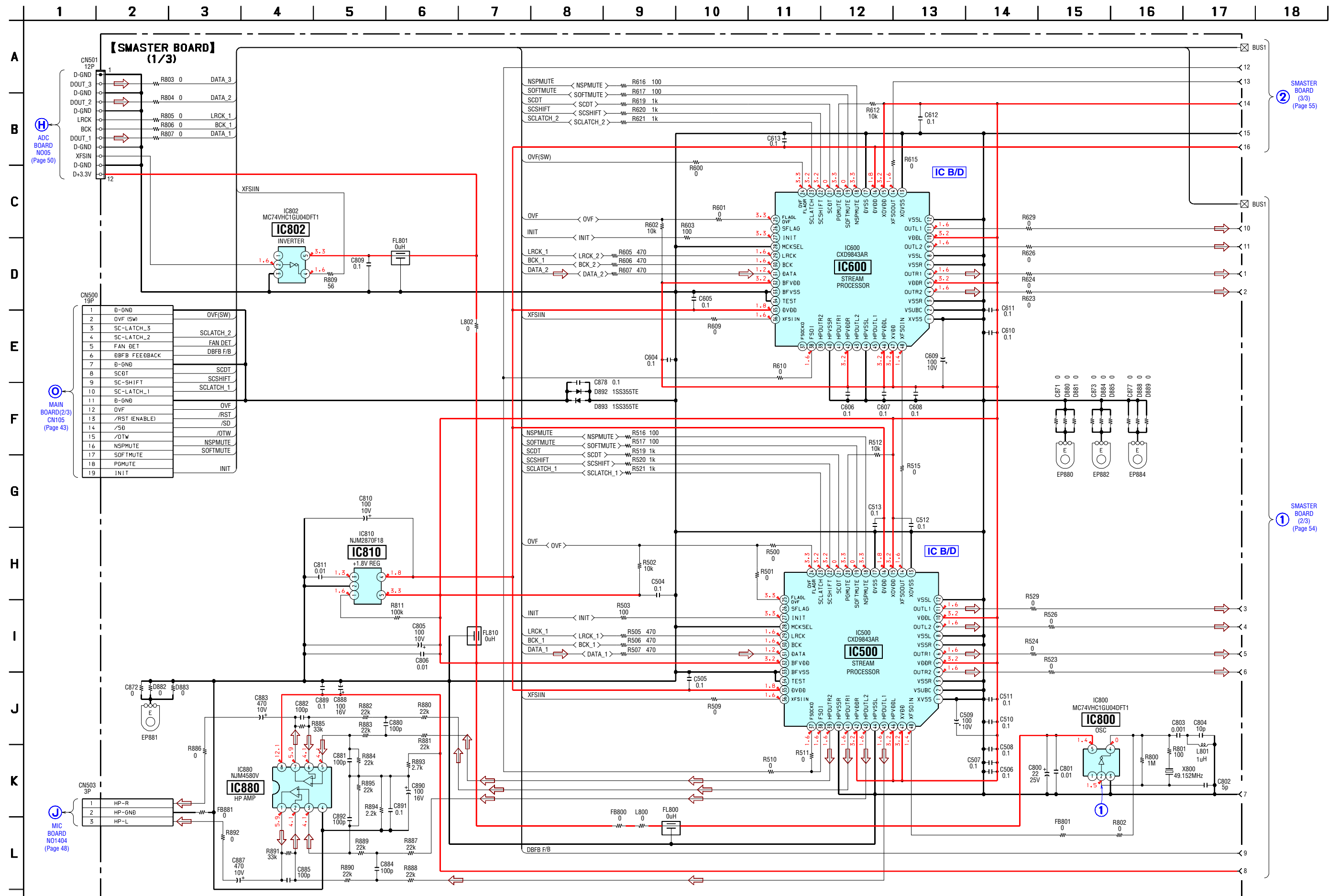
• Semiconductor Location

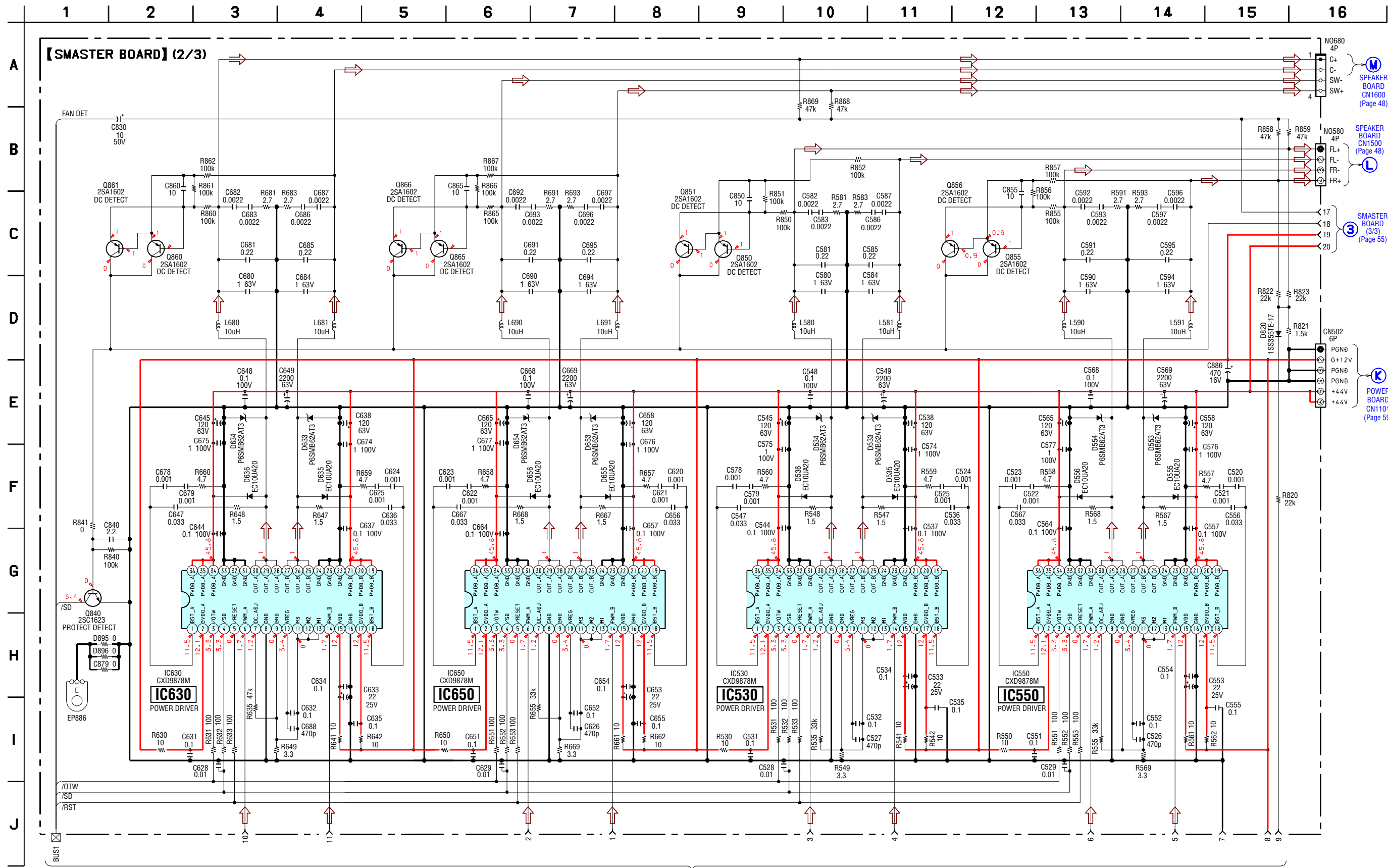
Ref. No.	Location
D533	D-2
D534	D-3
D553	D-1
D554	D-2
D633	D-5
D634	D-5
D653	D-4
D654	D-4
D733	D-7
D734	D-8
D753	D-6
D754	D-7
D820	B-1
D880	E-8
D881	E-8
D882	E-1
D883	E-1
D890	B-1
D891	B-1
D895	D-1
D896	D-1
IC810	E-8
Q840	B-6

7-26. PRINTED WIRING BOARD – SMASER BOARD (SIDE B) – • See page 25 for Circuit Boards Location.  :Uses unleaded solder.



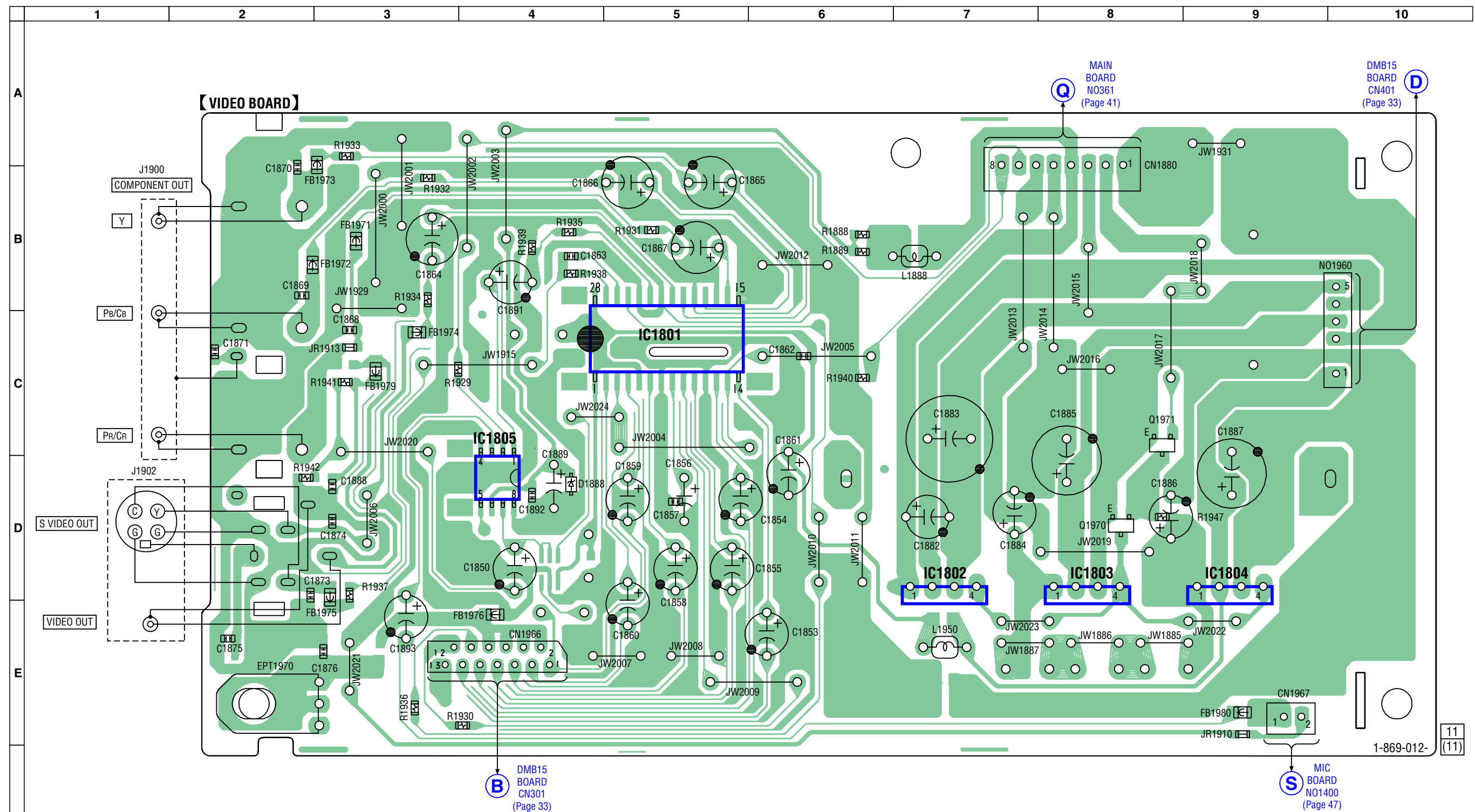
7-27. SCHEMATIC DIAGRAM – SMASER BOARD (1/3) – • See page 26 for Waveform. • See page 62 for IC Block Diagrams.







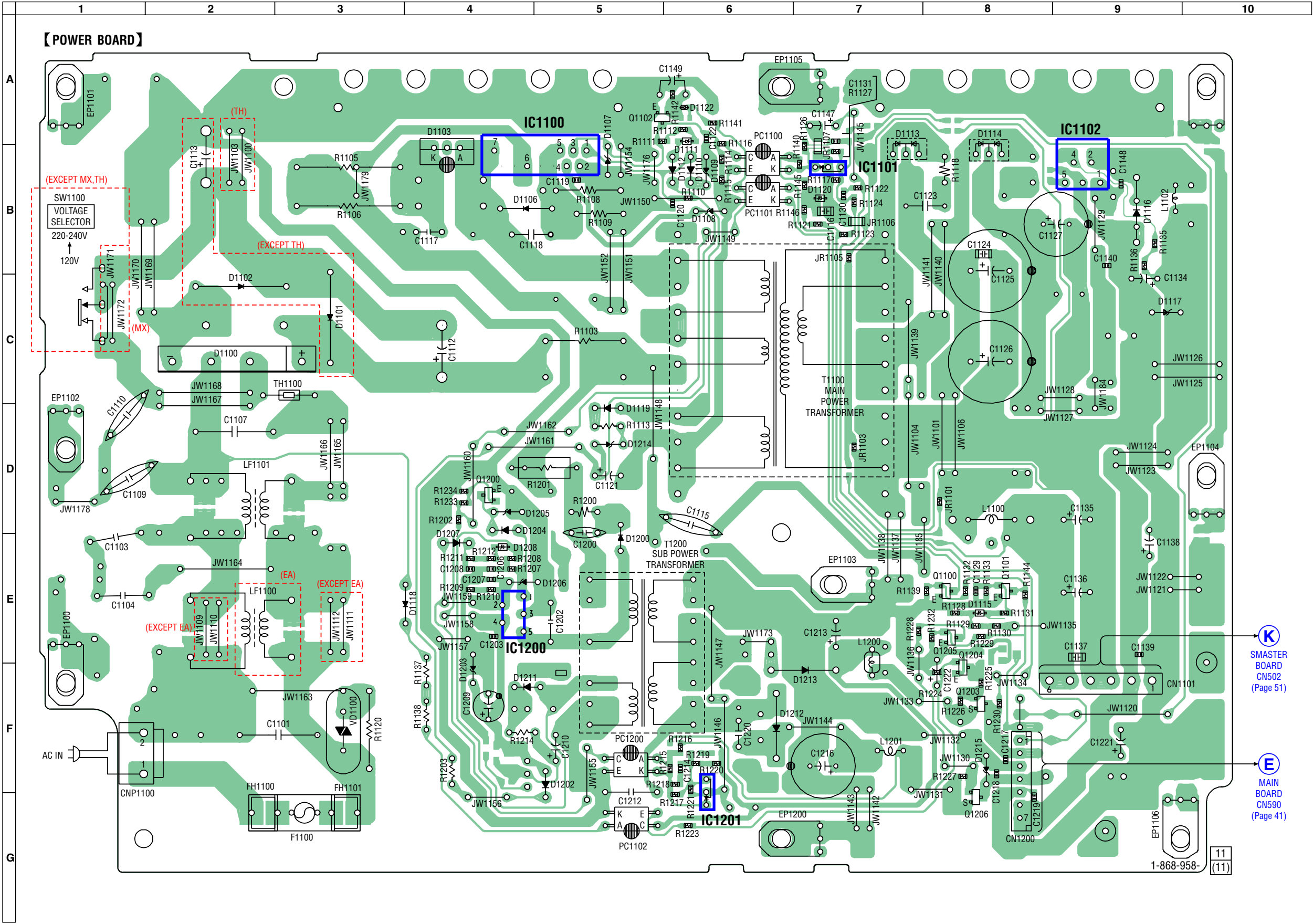
7-30. PRINTED WIRING BOARD – VIDEO BOARD – • See page 25 for Circuit Boards Location.  :Uses unleaded solder.



• Semiconductor Location

Ref. No.	Location
D1888	D-4
IC1801	C-5
IC1802	D-7
IC1803	D-8
IC1804	D-9
IC1805	C-4
Q1970	D-8
Q1971	C-8

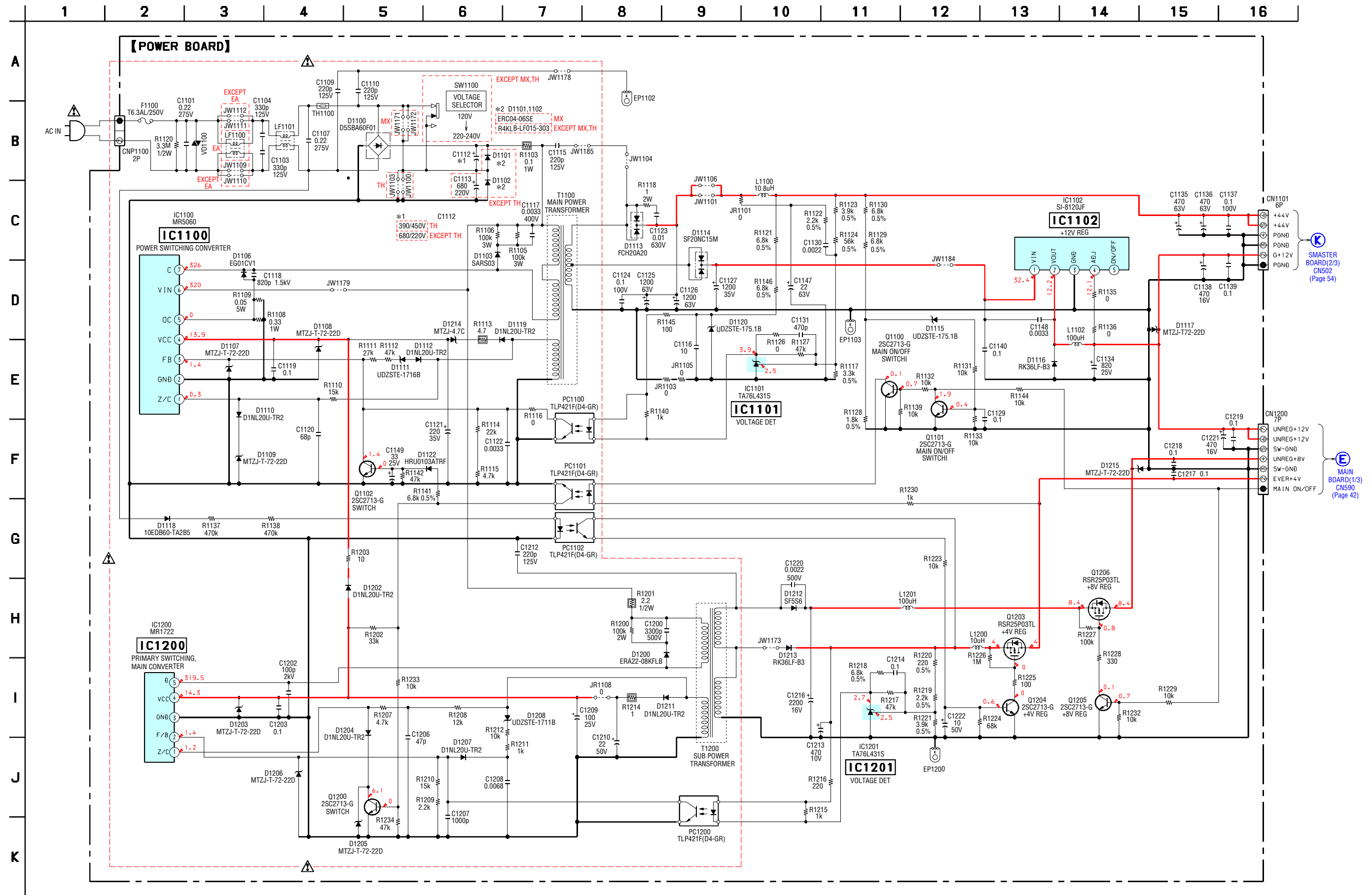




• Semiconductor Location

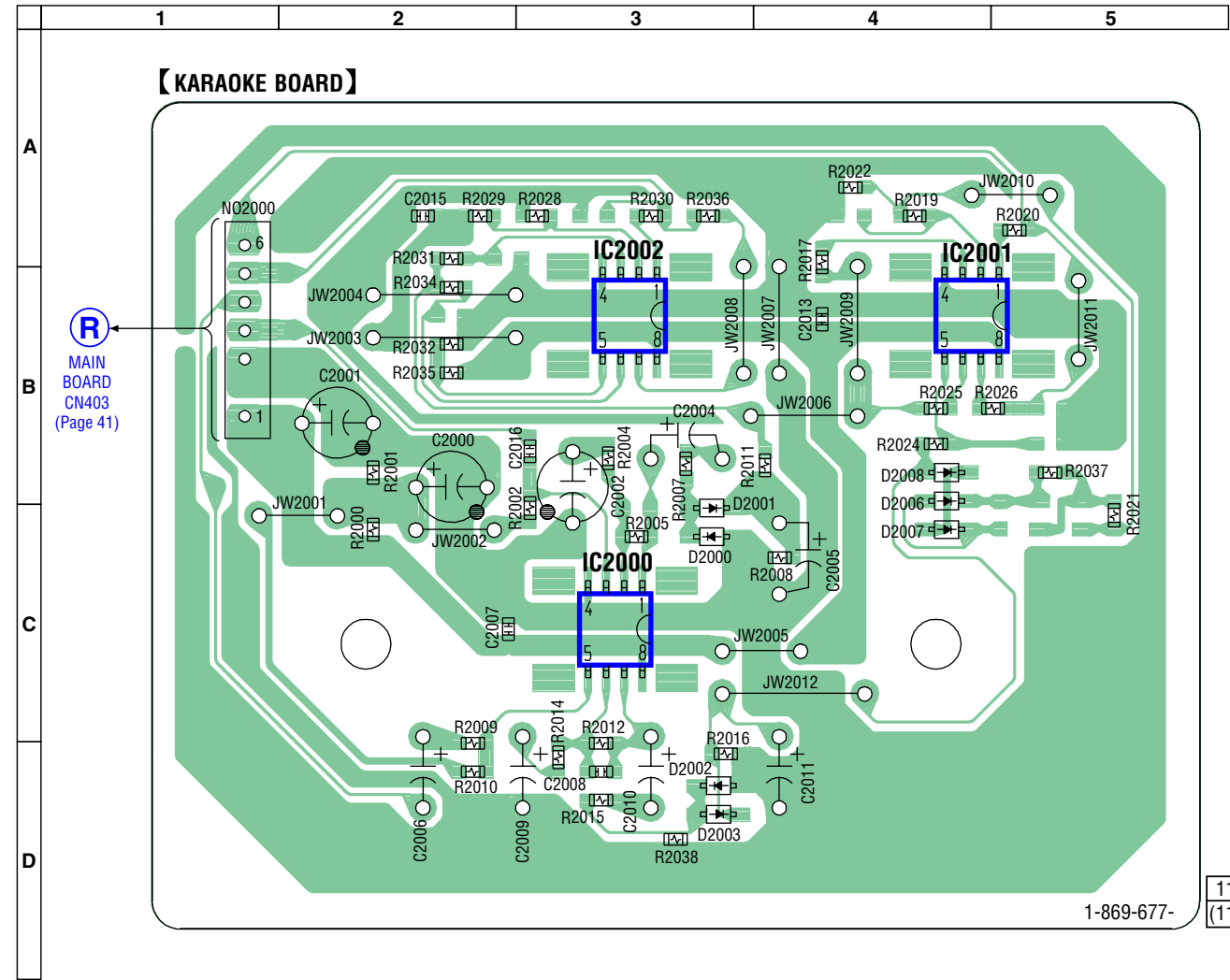
Ref. No.	Location
D1100	C-2
D1101	C-3
D1102	C-2
D1103	A-4
D1106	B-4
D1107	A-5
D1108	B-6
D1109	B-6
D1110	B-6
D1111	B-6
D1112	B-6
D1113	A-7
D1114	A-8
D1115	E-8
D1116	A-6
D1117	C-9
D1118	E-4
D1119	D-5
D1120	B-7
D1122	A-6
D1200	E-5
D1202	F-5
D1203	F-4
D1204	D-4
D1205	D-4
D1206	E-5
D1207	E-4
D1208	E-4
D1211	F-4
D1212	F-6
D1213	F-7
D1214	D-5
D1215	F-8
IC1100	A-5
IC1101	B-7
IC1102	A-5
IC1200	E-4
IC1201	G-6
Q1100	E-8
Q1101	E-8
Q1102	A-5
Q1200	D-4
Q1203	F-8
Q1204	F-8
Q1205	E-8
Q1206	G-8

7-33. SCHEMATIC DIAGRAM – POWER BOARD –

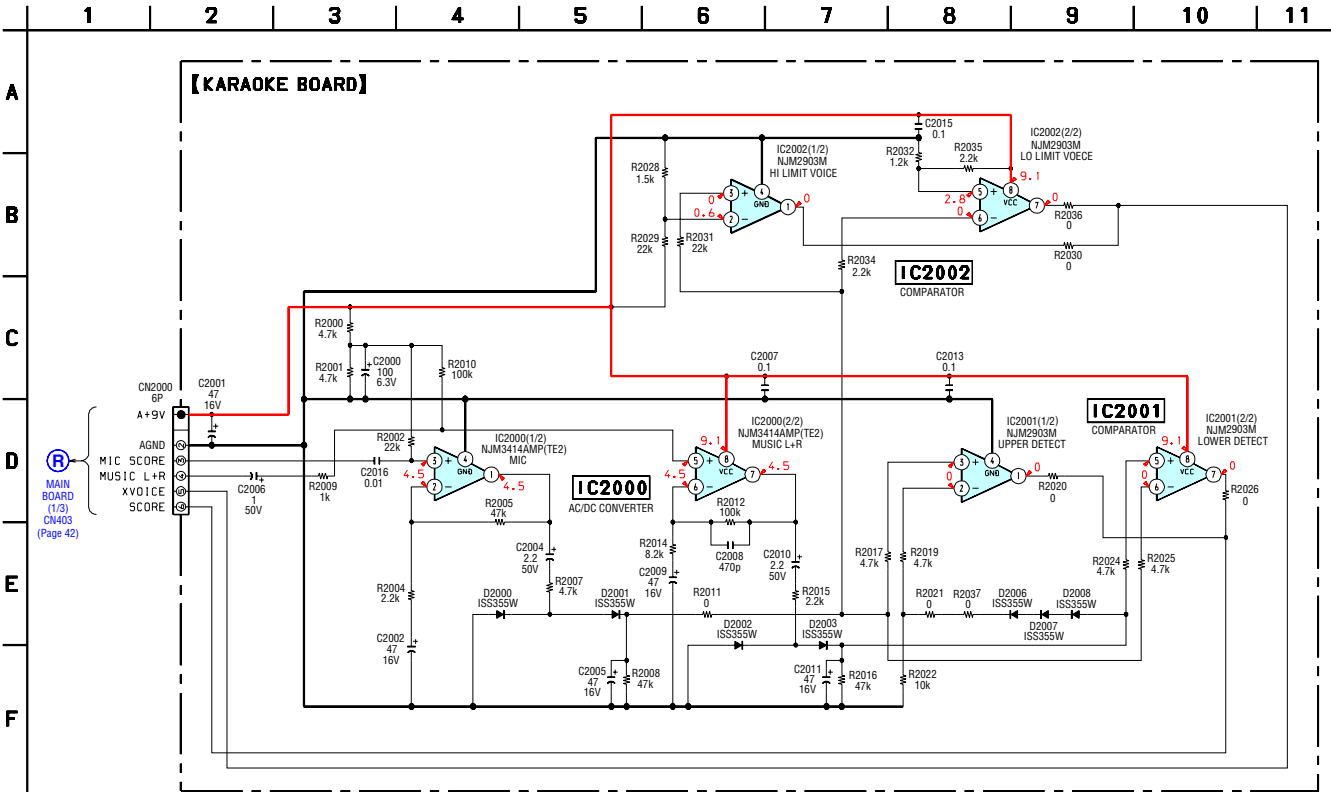


7-34. PRINTED WIRING BOARD – KARAOKE BOARD –

• See page 25 for Circuit Boards Location.  :Uses unleaded solder.



7-35. SCHEMATIC DIAGRAM – KARAOKE BOARD –



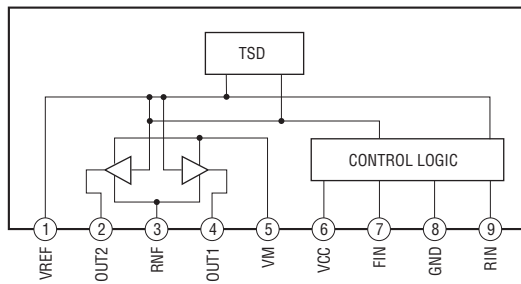
• Semiconductor Location

Ref. No.	Location
D2000	C-3
D2001	B-3
D2002	D-3
D2003	D-3
D2006	B-4
D2007	C-4
D2008	B-4
IC2000	C-3
IC2001	A-4
IC2002	A-3

• IC Block Diagrams

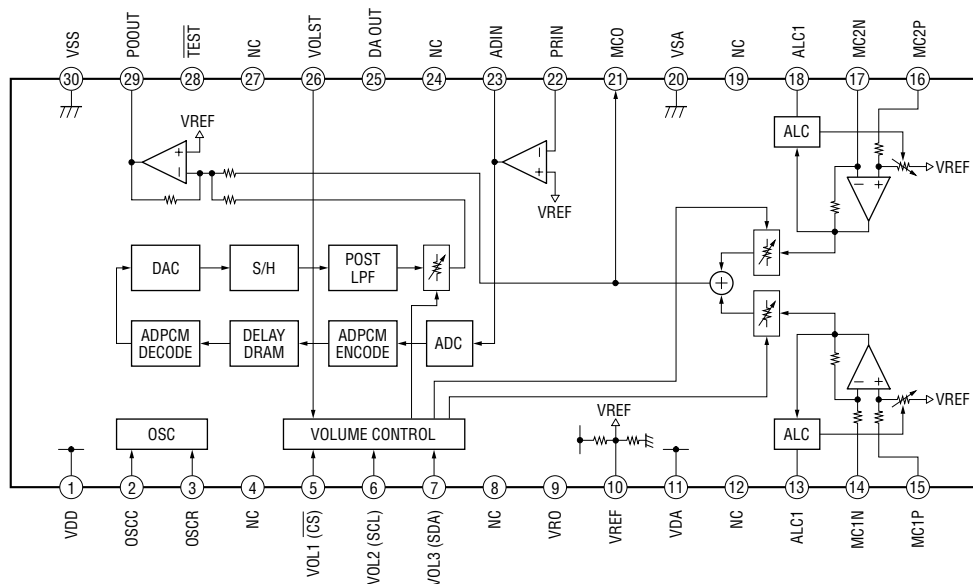
- DRIVER Board -

IC701, 712 BA6956AN



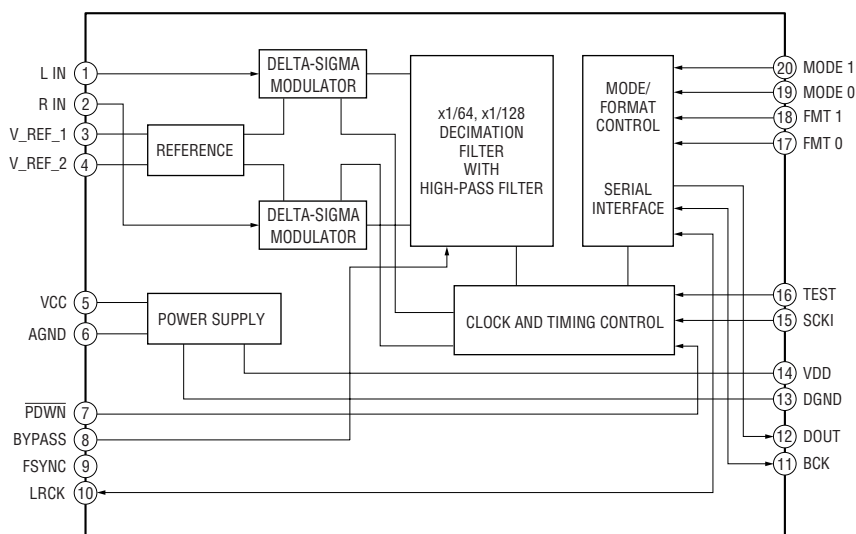
- MIC Board -

IC1400 TC9488FG



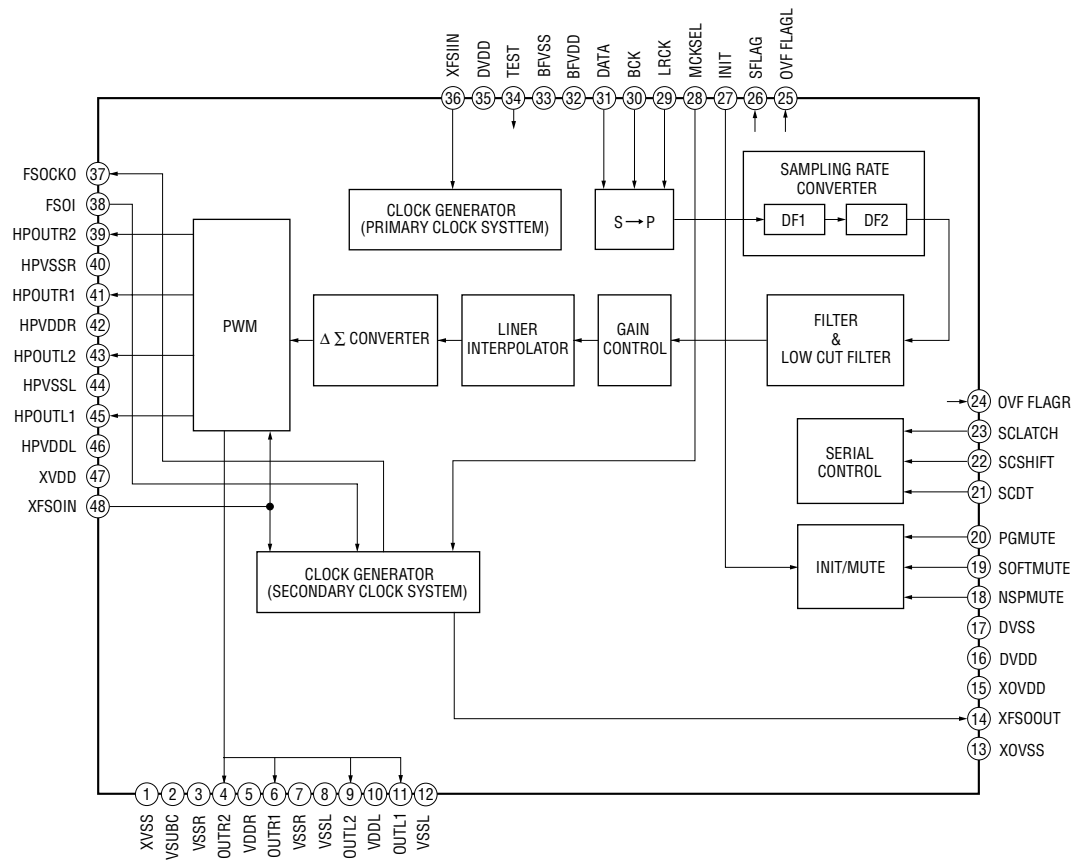
- ADC Board -

IC11, 12, 13 PCM1803DBR



– SMASTER Board –

IC500, 600, 700 CXD9843AR



7-36. IC PIN FUNCTION DESCRIPTION**IC102 CXD9849R (CD/DVD RF AMP, FOCUS/TRACKING ERROR AMP, DVD SYSTEM PROCESSOR, DIGITAL SERVO PROCESSOR) (DMB15 BOARD)**

Pin No.	Pin Name	I/O	Description
1	AGND	–	Ground terminal
2	DVDA	I	AC coupled RF signal input A
3	DVDB	I	AC coupled RF signal input B
4	DVDC	I	AC coupled RF signal input C
5	DVDD	I	AC coupled RF signal input D
6	DVDRFIP	I	AC coupled DVD RF signal input
7	DVDRFIN	I	AC coupled DVD RF signal input (Not used)
8	NA	I	RF signal input A
9	NB	I	RF signal input B
10	MC	I	RF signal input C
11	MD	I	RF signal input D
12	SA	I	Sub-beam RF signal input A (Not used)
13	SB	I	Sub-beam RF signal input B (Not used)
14	SC	I	Sub-beam RF signal input C (Not used)
15	SD	I	Sub-beam RF signal input D (Not used)
16	CDFON	I	CD focusing error negative input (Not used)
17	CDFOP	I	CD focusing error positive input (Not used)
18	TNI	I	RF signal input E
19	TPI	I	RF signal input F
20	MDI1	I	Laser power PD monitor input
21	MDI2	I	Laser power PD monitor input
22	LDO2	O	Laser drive signal output
23	LDO1	O	Laser drive signal output
24	SVDD3	–	Power Supply terminal (+3.3V)
25	CSD	O	Not used (Open)
26	RFLVL	O	Positive main beam summing output
27	SGND	O	Ground terminal
28	V2REFO	O	Reference voltage output
29	V2O	O	Center voltage output
30	VREFO	O	Reference voltage output
31	FEO	O	Focus error signal output
32	TEO	O	Tracking error signal output
33	TEZISLV	O	TE Slicing Level (Not used)
34	OPOUT	–	Not used (Open)
35	OPIN	–	Not used (Open)
36	OPIN	–	Not used (Open)
37	DMO	O	Spindle motor control PWM signal output
38	FMO	O	Sled motor PWM signal output
39	TROPENPWM	O	Tray PWM output/Tray open output (Not used)
40	IOPMON	O	General PWM signal output
41	TRO	O	Tracking servo signal output
42	FOO	O	Focus servo signal output
43	DVSS	–	Ground terminal
44	NO USE	–	Not used (Open)
45	NO USE	–	Not used (Open)
46	DVDD3	–	Power Supply terminal (+3.3V)
47	SPFG	I	Spindle FG signal input

Pin No.	Pin Name	I/O	Description
48	DSEL	O	DSEL signal output to MM1623BFBE
49	WIDE	O	WIDE signal output to MM1623BFBE
50	MSW	O	Optical pick-up volume control signal output to MM1623BFBE
51	MAMUTE	O	MAMUTE signal output (Not used)
52	DVDD18	–	Power Supply terminal (+1.8V)
53 to 58	IOA 2 to 7	O	Address bus 2 to 7 output to FLASH PROM
59	HIGHA0	O	Address bus 8 output to FLASH PROM
60, 61	IOA18, 19	O	Address bus 18, 19 output to FLASH PROM
62	DVSS	–	Ground terminal
63	APLLCAP	I	APLL External Capacitance connection
64	APLLVSS	–	Ground terminal
65	VDD3	–	Power Supply terminal (+3.3V)
66	I OWR	O	Write signal output to FLASH PROM
67	A16	O	Address bus 16 output to FLASH PROM
68 to 72	HIGHA 7 to 3	O	Address bus 15 to 11 output to FLASH PROM
73	DVDD3	–	Power Supply terminal (+3.3V)
74, 75	HIGHA 2, 1	O	Address bus 10, 9 output to FLASH PROM
76	IOA20	O	Address bus 20 output to FLASH PROM
77	IOCS	O	Chip select signal output to FLASH PROM
78	IOA1	O	Address bus 1 output to FLASH PROM
79	IOOE	O	Out enable signal output to FLASH PROM
80	DVDD3	–	Power Supply terminal (+3.3V)
81 to 84	AD 0 to 3	I/O	Data bus 0 to 3 input/output to FLASH PROM
85	DVSS	–	Ground terminal
86 to 88	AD 4 to 6	I/O	Data bus 4 to 6 input/output to FLASH PROM
89	IOA21	O	Address bus 21 output to FLASH PROM
90	ALE	O	Not used (Open)
91	AD7	I/O	Data bus 7 input/output to FLASH RAM
92	A17	O	Address bus 17 output to FLASH PROM
93	IOA0	I/O	Address bus 0 input/output to FLASH RAM
94	DVSS	–	Ground terminal
95	UWA	–	Not used (Open)
96	URB	–	Not used (Open)
97	DVDD18	–	Power Supply terminal (+1.8V)
98	IFSDO	O	Serial data output to M30620MCP
99	IFCK	O	Serial clock data output to M30620MCP
100	XIFCS	O	XIFCS signal output to M30620MCP
101	IFSDI	I	Serial data input from M30620MCP
102	SCL	O	SCL signal output to EEPROM
103	SDA	O	SDA signal output to EEPROM
104	TRG-SW	O	Not used (Open)
105	IFBSY	I	IFBSY signal input from M30620MCP
106	RXD	I	RD232 RXD signal input
107	TXD	O	RD232 TXD signal output
108	DVDD3	–	Power Supply terminal (+3.3V)
109	IEC	–	Not used (Open)
110	PRST	I	System reset signal input from M30620MCP
111	IR	–	Not used (Open)
112	INT0	–	Not used (Open)
113	DQMO	O	DQMO signal output to SDRAM

Pin No.	Pin Name	I/O	Description
114	MREQ	I	DQM signal input
115	RD7	I/O	Data bus 7 input/output to SDRAM
116	DVSS	–	Ground terminal
117, 118	RD 6, 5	I/O	Data bus 6, 5 input/output to SDRAM
119	DVSS	–	Ground terminal
120, 121	RD 4, 3	I/O	Data bus 4, 3 input/output to SDRAM
122	DVDD18	–	Power Supply terminal (+1.8V)
123 to 125	RD 2 to 0	I/O	Data bus 2 to 0 input/output to SDRAM
126	RD15	I/O	Data bus 15 input/output to SDRAM
127	DVDD3	–	Power Supply terminal (+3.3V)
128	RD 14	I/O	Data bus 14 input/output to SDRAM
129 to 133	RD 13 to 9	I/O	Data bus 13 to 9 input/output to SDRAM
134	DVSS	–	Ground terminal
135	RD8	I/O	Data bus 8 input/output to SDRAM
136	GPI0	–	Not used (Open)
137	DQM1	O	DQM1 signal output to SDRAM
138	RWE	O	Write signal output to SDRAM
139	CAS	O	CAS signal output to SDRAM
140	RAS	O	RAS signal output to SDRAM
141	DVDD3	–	Power Supply terminal (+3.3V)
142	RCS	O	Chip select signal output to SDRAM
143	BA0	O	BA0 signal output to SDRAM
144	DVSS	–	Ground terminal
145	BA1	O	BA1 signal output to SDRAM
146	RA10	O	Address bus 10 output to SDRAM
147	RA0	O	Address bus 0 output to SDRAM
148	DVSS	–	Ground terminal
149 to 151	RA 1 to 3	O	Address bus 1 to 3 output to SDRAM
152	DVDD18	–	Power Supply terminal (+1.8V)
153	NO USE	–	Not used (Open)
154	NO USE	–	Not used (Open)
155	DVDD3	–	Power Supply terminal (+3.3V)
156	RCLK	O	Clock output to SDRAM
157	CKE	O	Clock enable output to SDRAM
158 to 160	RA 11, 9, 8	O	Address bus 11, 9, 8 output to SDRAM
161	DVSS	–	Ground terminal
162	RA7	O	Address bus 7 output to SDRAM
163	DVSS	–	Ground terminal
164 to 166	RA 6 to 4	O	Address bus 6 to 4 output to SDRAM
167	DVDD3	–	Power Supply terminal (+3.3V)
168	DISC/X	–	Not used (Open)
169	RGB	–	Not used (Open)
170	TSD_M	O	TSDM signal output to FAN8036M
171	NO USE	–	Not used (Open)
172	NO USE	–	Not used
173	DVDD18	–	Power Supply terminal (+1.8V)
174	FWD	–	Not used (Open)
175	NO USE	–	Not used (Open)
176	LIMSW	I	Optical pick-up limit switch signal input
177	OCSW	–	Not used (Open)

Pin No.	Pin Name	I/O	Description
178	REW	–	Not used (Open)
179	CKSW	–	Not used (Open)
180	NO USE	–	Not used (Open)
181	NO USE	–	Not used (Open)
182	DVDD3	–	Power Supply terminal (+3.3V)
183	NO USE	O	Not used (Open)
184	NO USE	O	Not used (Open)
185	NO USE	–	Not used (Open)
186	NO USE	–	Not used (Open)
187	NO USE	–	Not used (Open)
188	NO USE	–	Not used (Open)
189	DAVCC	–	Power Supply terminal (+3.3V)
190	VREF	–	Not used (Open)
191	FS	I	Full scale adjustment (pull down)
192	YUV0	–	Not used (Open)
193	DAVSS	–	Ground terminal
194	YUV1	O	Y signal output to MM1623BFBE
195	DAVDD	–	Power Supply terminal (+3.3V)
196	YUV2	O	CHROMA signal output to MM1623BFBE
197	DAVSS	–	Ground terminal
198	YUV3	O	VIDEO signal output to MM1623BFBE
199	DAVDD	–	Power Supply terminal (+3.3V)
200	YUV4	O	G signal output to MM1623BFBE
201	DAVSS	–	Ground terminal
202	YUV5	O	B signal output to MM1623BFBE
203	YUV6	O	R signal output to MM1623BFBE
204	DVDD3	–	Power Supply terminal (+3.3V)
205	MIC/VSYN	I	Mic status signal input from M30620MCP
206	VOICE/YUV7	I	VOICE signal input
207	KRMOD/HSYN	O	KRMOD signal output to M30620MCP
208	SMSCK	I	SCORE signal input
209	SPDATA/SMSDI	I	Audio data of SPDIF input (Not used)
210	MUTE	O	MUTE signal output to FAM8036L
211	MUTE123	O	MUTE signal output to FAM8036L
212	DVDD3	–	Power Supply terminal (+3.3V)
213	ALRCK	I	Audio left/right channel clock input
214	ABCK	O	Audio bit clock output
215	ACLK	I	Audio DAC master clock input
216	DVSS	–	Ground terminal
217	ASDATA0	O	Audio serial data output to AK4358VQ
218	ASDATA1	O	Audio serial data output to AK4358VQ
219	ASDATA2	O	Audio serial data output to AK4358VQ
220	XRST	I	Reset signal input
221	DVDD18	–	Power Supply terminal (+1.8V)
222	ASDATA4	O	Audio serial data output to AK4358VQ
223	DVSS	–	Ground terminal
224	DWIDE	–	Not used (Open)
225	SDPIF	–	Not used (Open)
226	RFGND18	–	Ground terminal
227	RFVDD18	–	Power Supply terminal (+1.8V)

Pin No.	Pin Name	I/O	Description
228	XTALO	O	Oscillator output terminal
229	XTALI	I	Oscillator input terminal
230	JITFO	O	RF jitter meter output
231	JITFN	I	RF jitter meter input
232	PLLVSS	–	Ground terminal
233	IDAC	–	Not used
234	PLLVDD3	–	Power Supply terminal (+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	–	Power Supply terminal (+3.3V)
240	NO USE	–	Not used (Open)
241	VSS	–	Ground terminal
242	NO USE	–	Not used (Open)
243	NO USE	–	Not used (Open)
244	RFVDD3	–	Power Supply terminal (+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	NO USE	O	Not used (Open)
251	NO USE	I	Not used (Open)
252	OSP	O	RF offset cancellation capacitor connecting
253	OSN	I	RF offset cancellation capacitor connecting
254	RFGC	O	RF offset loop capacitor connecting
255	IREF	I	Current reference input
256	AVDD3	–	Power Supply terminal (+3.3V)

IC301 AK4358VQ-L (D/A CONVERTER) (DMB15 BOARD)

Pin No.	Pin Name	I/O	Description
1	LOUT1-	O	DAC1 Lch negative analog output
2	LOUT1+	O	DAC1 Lch positive analog output
3	DZF3 (L)	O	Zero input detect 3 terminal (Connected to ground)
4	DZF2 (R)	O	Zero input detect 2 terminal (Connected to ground)
5	DZF1 (SUR)	O	Zero input detect 1 terminal (Connected to ground)
6	CAD0	I	Chip address 0 input (Connected to ground)
7	ACKSN	I	Auto setting mode disable terminal (Pull-down terminal) ("L":auto settingmode"H": manual setting mode) (Connected to ground)
8	PDN	I	Power-down mode terminal When at "L", the AK4358 is in the power-down mode and is held in reset.The AK4358 should always be reset upon power-up.
9	BICK	I	Audio serial data clock input
10	MCLK	I	Master clock input
11	DVDD	—	Digital power supply terminal (+4.75 to +5.25V)
12	DVSS	—	Digital ground terminal
13	SDTI4	I	DAC4 audio serial data input
14	SDTI1	I	DAC1 audio serial data input
15	SDTI2	I	DAC2 audio serial data input
16	SDTI3	I	DAC3 audio serial data input
17	LRCK	I	L/R clock input
18	I2C	I	Control mode select input ("L": 3-wire serial "H": IIC bus)
19	SCL	I	Control data clock input (IIC="L": CCLK (3-wire serial), IIC="H": SCL (IIC bus))
20	SDA	I	Control data input (IIC="L": CDTI (3-wire serial), IIC="H": SDA (IIC bus))
21	CAD1	I	Chip select input (IIC="L": CSN (3-wire serial), IIC="H": CAD1 (IIC bus)) (Connected to ground)
22	DCLK	I	DSD clock input (Connected to ground)
23	DSDL4	I	DAC4 DSD Lch data input (Connected to ground)
24	DSDR4	I	DAC4 DSD Rch data input (Connected to ground)
25	DSDL1	I	DAC1 DSD Lch data input (Connected to ground)
26	DSDR1	I	DAC1 DSD Rch data input (Connected to ground)
27	DSDL2	I	DAC2DSD Lch data input (Connected to ground)
28	DSDR2	I	DAC2 DSD Rch data input (Connected to ground)
29	DSDL3	I	DAC3 DSD Lch data input (Connected to ground)
30	DSDR3	I	DAC3 DSD Rch data input (Connected to ground)
31	DIF0	I	Audio data interface format 0 terminal (Connected to ground)
32	ROUT4-	O	DAC4 Rch negative analog output
33	ROUT4+	O	DAC4 Rch positive analog output
34	VREFH	I	Positive voltage reference input
35	AVDD	—	Analog power supply terminal (+4.75 to +5.25V)
36	AVSS	—	Analog ground terminal
37	LOUT4-	O	DAC4 Lch negative analog output
38	LOUT4+	O	DAC4 Lch positive analog output
39	ROUT3-	O	DAC3 Rch negative analog output
40	ROUT3+	O	DAC3 Rch positive analog output
41	LOUT3-	O	DAC3 Lch negative analog output
42	LOUT3+	O	DAC3 Lch positive analog output
43	ROUT2-	O	DAC2 Rch negative analog output
44	ROUT2+	O	DAC2 Rch positive analog output
45	LOUT2-	O	DAC2 Lch negative analog output
46	LOUT2+	O	DAC2 Lch positive analog output
47	ROUT1-	O	DAC1 Rch negative analog output
48	ROUT1+	O	DAC1 Rch positive analog output

IC401 M30622MEP-A50FPU0 (SYSTEM CONTROL) (MAIN BOARD)

Pin No.	Pin Name	I/O	Pin Description
1	SW CHANNEL SELECT	O	Signal path selection signal for sub woofer channel ("L": LFE, "H": Subwoofer out from M61537)
2	SURR CHANNEL SELECT	O	Signal path selection signal for surround channel ("L": SL/FR (MTK), "H": Tone out from M61537)
3	SM LATCH 3	O	Serial data latch pulse output to the S-Master Processor
4	SIRCS	I	Remote control signal input
5	NO USE	I	Not used (Open)
6	NO USE	I	Not used (Open)
7	NO USE	I	Not used (Open)
8	BYTE	—	Ground terminal
9	CNVSS	—	Ground terminal
10	XC IN	I	Sub system clock input (32.768 kHz)
11	XC OUT	O	Sub system clock output (32.768 kHz)
12	RESET	I	System reset signal input from the reset signal IC "L": reset After the power supply rises, "L" is input for several hundreds msec and then change to "H".
13	X OUT	O	Main system clock output (5 MHz)
14	VSS	—	Ground terminal
15	X IN	I	Main system clock input (5 MHz)
16	VCC	—	Power supply terminal (+3.3 V)
17	NMI	I	Non-maskable interrupt input
18	NO USE	I	Not used (Connect to ground)
19	NO USE	I	Not used (Open)
20	AC CUT	I	AC off detection signal input from the reset signal IC ("L": AC Cut detected)
21	VIDEO MUTE	O	Video muting on/off control signal output ("L": muting on)
22	VIDEO OUT SW	O	Composite video output switching output control ("L": DVD VIDEO output, "H": VIDEO VIDEO input)
23	MIC DETECT	I	Microphone connection detection signal input ("L": headphone connected)
24	KRMOD	I	Karaoke Mode detection signal input
25	MIC STATUS	O	Microphone status output to DVD Motherboard ("L": Microphone is not connected, "H": Microphone is connected)
26	MTK RESET	O	Reset signal output to DVD Motherboard ("L": reset)
27	MTK XIFCS	I	Communication Initialization Request Acknowledgement Signal from DVD Motherboard
28	MTK BUSY	O	Communication Initialization Request Signal to DVD Motherboard
29	IIC CLK	I/O	Clock signal for IIC communication between the microcomputer and the IIC checker
30	IIC DATA	I/O	Data signal for IIC communication between the microcomputer and the IIC checker
31	MTK SIO	O	Serial data output signal to DVD Motherboard
32	MTK SOD	I	Serial data input signal from DVD Motherboard
33	MTK CLK	I	Serial data clock signal from DVD Motherboard
34	DVD A MUTE	O	DVD analog signal muting on/off control signal output ("H": muting on)
35	MTK POWER	O	Power supply control signal to DVD Motherboard ("H": Power supply on)
36	ST CE	O	PLL chip enable signal output to the tuner unit
37	MC DIN	I	PLL serial data input from the tuner unit
38	ST CLK	O	PLL serial data transfer clock signal output to the tuner unit
39	MC DOUT	O	PLL serial data output to the tuner unit
40	TUNED	I	Tuning detection signal input from the tuner unit ("L": tuned)
41	OPEN SW	I	Eject detection signal input from CDM
42	TBL ADDRESS SW	I	Disc tray position detection signal input from CDM
43	E3	I	Disc tray status detection signal input from CDM
44	E2	I	Disc tray status detection signal input from CDM

Pin No.	Pin Name	I/O	Pin Description
45	E1	I	Disc tray status detection signal input from CDM
46	TM F	O	CDM turning motor control signal output
47	TM R	O	CDM turning motor control signal output
48	LM F	O	CDM loading motor control signal output
49	LM R	O	CDM loading motor control signal output
50	LED ILLUMINATION 1	O	Dynamic LED drive signal output to the ILLUMINATION 1st indicator and 2nd indicator (“H”: LED on)
51	LED ILLUMINATION 2	O	Dynamic LED drive signal output to the ILLUMINATION 3rd indicator and 4th indicator (“H”: LED on)
52	LED ILLUMINATION 3	O	Dynamic LED drive signal output to the ILLUMINATION 5th indicator and 6th indicator (“H”: LED on)
53	LED ILLUMINATION CTRL	O	Dynamic LED drive select signal output
54	VOL A	I	Jog dial pulse input from the VOLUME rotary encoder (A phase input)
55	VOL B	I	Jog dial pulse input from the VOLUME rotary encoder (B phase input)
56	STBY LED	O	LED drive signal output of POWER indicator “H”: LED is turned on
57	FL DRIVER DATA	O	Serial data output signal to FL Driver, NJU3427
58	FL DRIVER CLK	O	Serial data clock signal to FL Driver, NJU3427
59	FL DRIVER RESET	O	Serial data reset signal to FL Driver, NJU3427
60	FL DRIVER CS	O	Serial data chip select signal to FL Driver, NJU3427
61	SW LED	O	LED drive signal output of SUB WOOFER ON indicator (“H”: LED ON)
62	VCC	—	Power supply terminal (+3.3 V)
63	A HALF	I	Deck A cassette detection signal input “H”: cassette detected
64	VSS	—	Ground terminal
65	SM RESET	O	Reset signal output to the S-Master Power IC
66	IO EXP DATA OUT	O	Serial data output signal to I/O expander, BH2210V
67	NO USE	I	Not used (Connect to ground)
68	IO EXP RST	O	Reset signal output to the I/O expander, BH2210V
69	IO EXP CLK	O	Serial data latch signal to I/O expander, BH2210V
70	IO EXP LAT	O	Serial data clock signal to I/O expander, BH2210V
71	NO USE	I	Not used (Connect to ground)
72	SM SD	I	Shutdown (protector) detection signal from the S-Master power IC
73	DISPLAY KEY	I	DISPLAY key press detection signal (Interrupt input)
74	POWER KEY	I	POWER key press detection signal (Interrupt input)
75	NO USE	I	Not used (Connect to ground)
76	SM LATCH 1	O	Serial data latch pulse output to the S-Master Processor
77	SM CLK	O	Serial data transfer clock signal to the S-Master Processor IC (CXD9843)
78	SM DATA	O	Serial data output signal to the S-Master Processor IC (CXD9843)
79	SM LATCH 2	O	Serial data latch pulse output to the S-Master Processor
80	NO USE	I	Not used (Connect to ground)
81	NO USE	I	Not used (Connect to ground)
82	PWMODE SEL	I	PWM Mode selection signal (“L”: PWM Mode 3, “H”: PWM Mode 4)
83	M61537 DATA	O	Serial data output to audio signal processor, M61537FP
84	M61537 CLK	O	Serial data transfer clock signal output to audio signal processor, M61537FP
85	HP DET	I	Headphone connection detection signal input (“H”: headphone connected)
86	HP MUTE	O	Headphone muting on/off control signal (“H”: muting on)
87	NO USE	I	Not used (Connect to ground)
88	VACS IN	I	VACS level detection signal
89	A SHUT	I	Shut off detection signal input from deck A side reel pulse detector (A/D input)
90	B SHUT	I	Shut off detection signal input from deck B side reel pulse detector (A/D input)

Pin No.	Pin Name	I/O	Pin Description
91	B HALF	I	Deck B cassette detection and forward side recording tab detection signal input (A/D input)
92	MODEL IN	I	Model setting (A/D input)
93	DEST IN	I	Destination setting (A/D input)
94	AD KEY 3	I	Key signal input (A/D input)
95	AD KEY 2	I	Key signal input (A/D input)
96	AVSS	—	Ground terminal (for A/D conversion)
97	AD KEY 1	I	Key signal input (A/D input)
98	VREF	I	A/D Converter reference voltage input terminal (+3.3 V)
99	AVCC	—	Power supply terminal (+3.3 V) (for A/D conversion)
100	MAIN ON/OFF	O	Main power on/off control signal output “H”: power on

• IC403 BH2210FV-E2 (SIGNAL IN/OUT CONTROL) (MAIN BOARD)

Pin No.	Pin Name	I/O	Description
1	CTLIO	I	Input/output mode select port (Fixed at "H")
2	RESET	I	Reset signal input
3	CLK	I	Serial data clock input
4	LATCH	I	Serial data latch input
5	TC-MUTE	O	Tape playback muting on/off control signal output ("H":muting on)
6	NO-USE	O	Not used (Open)
7	REC-MUTE	O	Recording muting on/off control signal output ("H":muting on)
8	NO-USE	O	Not used (Open)
9	SM-NSP-MUTING	O	S-Master Processor IC PWM 50% duty muting on/off control signal output ("L":muting on)
10	SM-SOFT-MUTING	O	S-Master Processor IC Soft muting on/off control signal output ("L":muting on)
11	NO-USE	O	Not used (Open)
12	SM-INIT	O	Initialization signal output to the S-Master Processor IC
13	LATCHO	O	Serial data latch output signal (Not used) (Open)
14	CLKO	O	Serial data clock output signal (Not used) (Open)
15	DO1	O	Serial data output signal 1 (Not used) (Open)
16	DI2	I	Serial data input signal 2 (Not used) (Open)
17	A-TRIG	O	Deck A side trigger plunger drive signal output ("H":plunger on)
18	CAPM-CNT	O	Capstan motor drive signal output
19	B-TRIG	O	Deck B side trigger plunger drive signal output ("H":plunger on)
20	REC-BIAS	O	Recording bias on/off control signal output ("H":bias on)
21	TC-RELAY	O	Recording/playback selection signal output ("H":recording "L":playback)
22	ADC-RESET	O	Power down control signal to Analog to Digital converter, PCM1803 ("L": Power down)
23	NO-USE	O	Not used (Open)
24	FAN-CTRL	O	Fan driving signal output ("L": Fan on)
25	DO2	O	Serial data output signal 2 (Not used) (Open)
26	DI1	I	Serial data input signal 1
27	VSS	—	Ground terminal
28	VDD	—	Power supply terminal (+3.3V)

SECTION 8 EXPLODED VIEWS

NOTE:

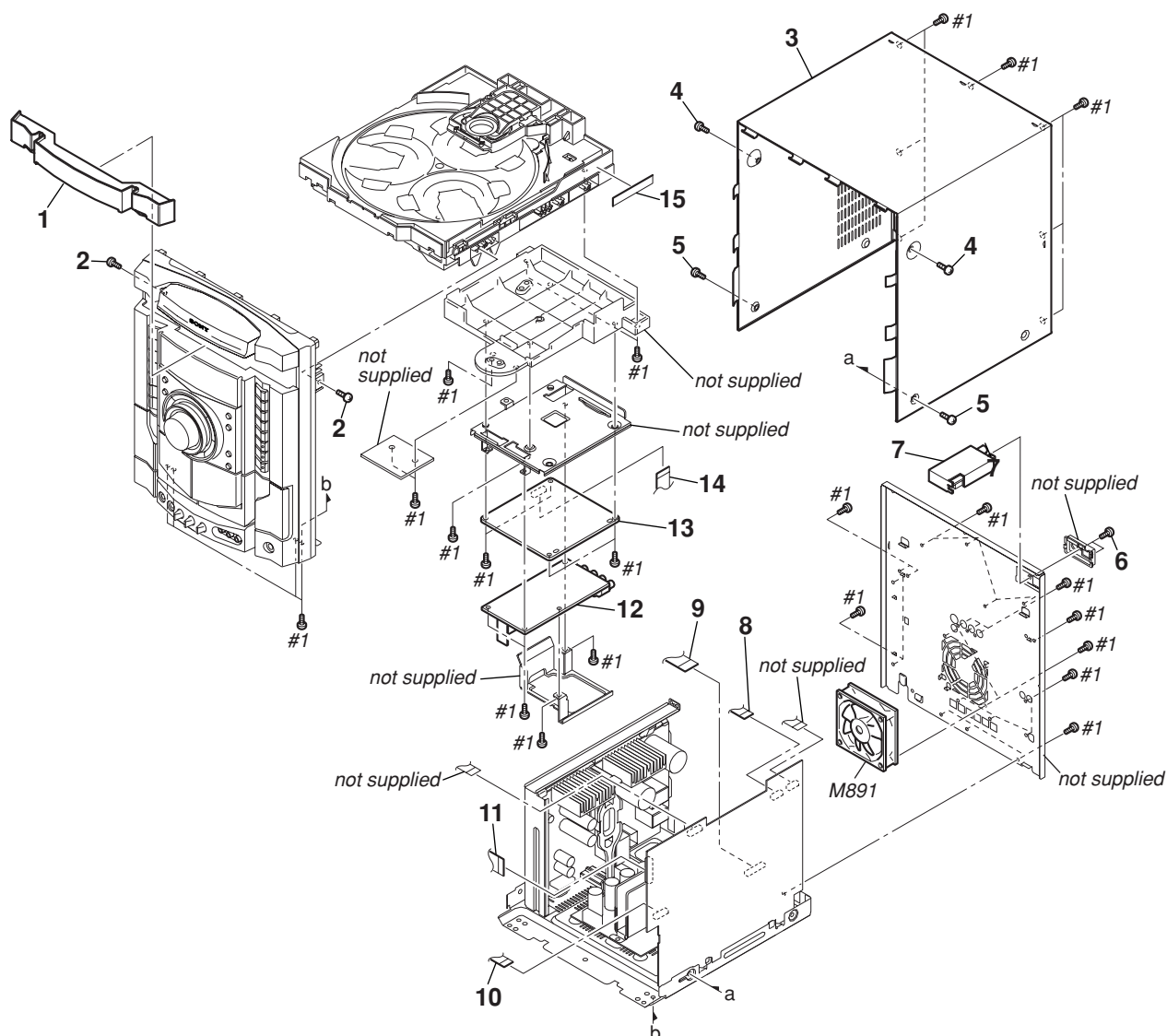
- The illustration depicts HCD-GNV111D.
- XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.

- Hardware (# mark) list and accessories are given in the last of this parts list.
- Abbreviation
E2 : 120V AC Area in E model
E3 : 240V AC Area in E model
E12 : 220V-240V AC Area in E model
E13 : 220-230V AC area in E model
E15 : Iran model
E51 : Chilean and Perurian model

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

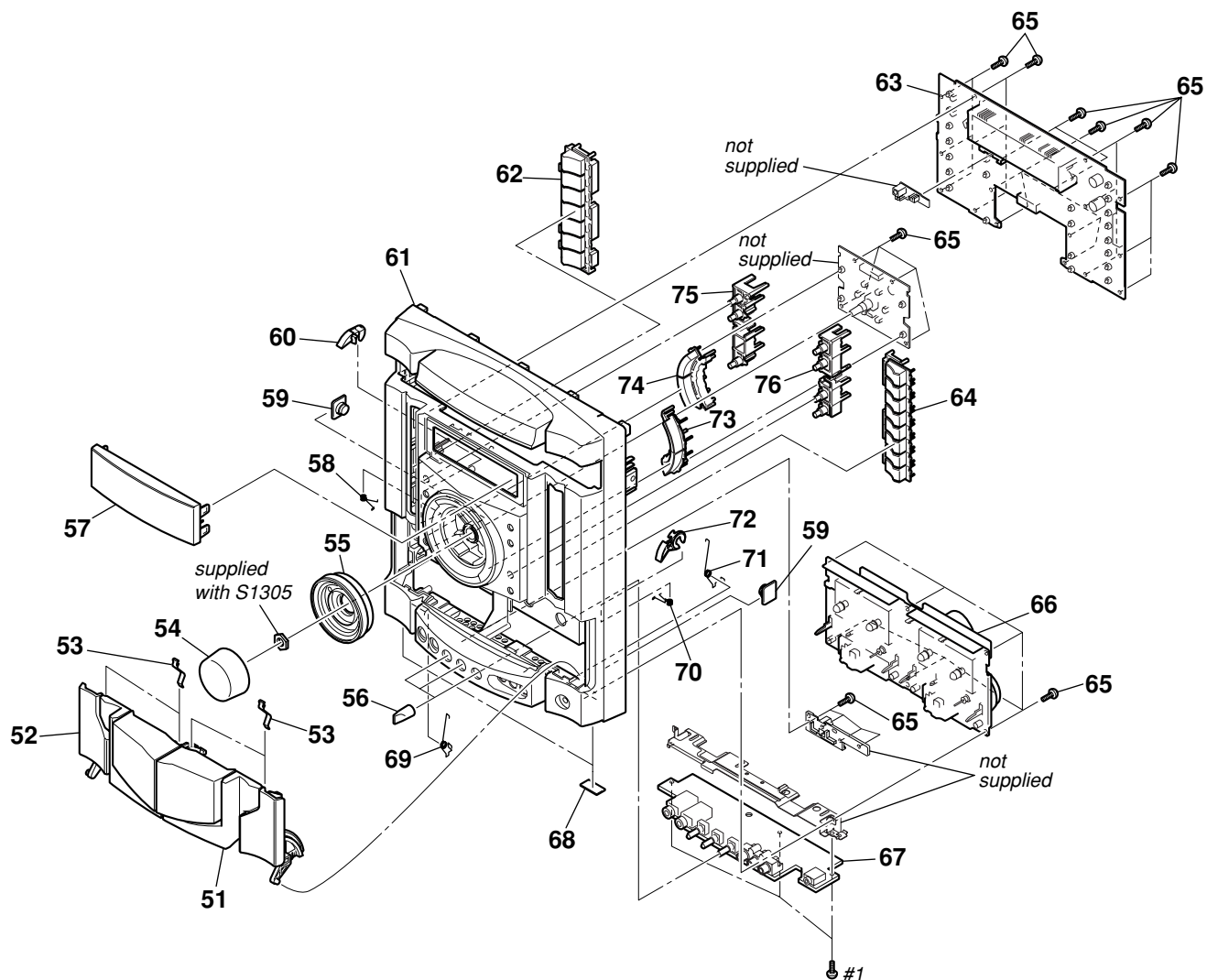
EA : Saudi Arabia model
MX : Mexican model
MY : Malaysia model
PH : Philippines model
SP : Singapore model
TH : Thai model

8-1. CASE, BACK PANEL SECTION



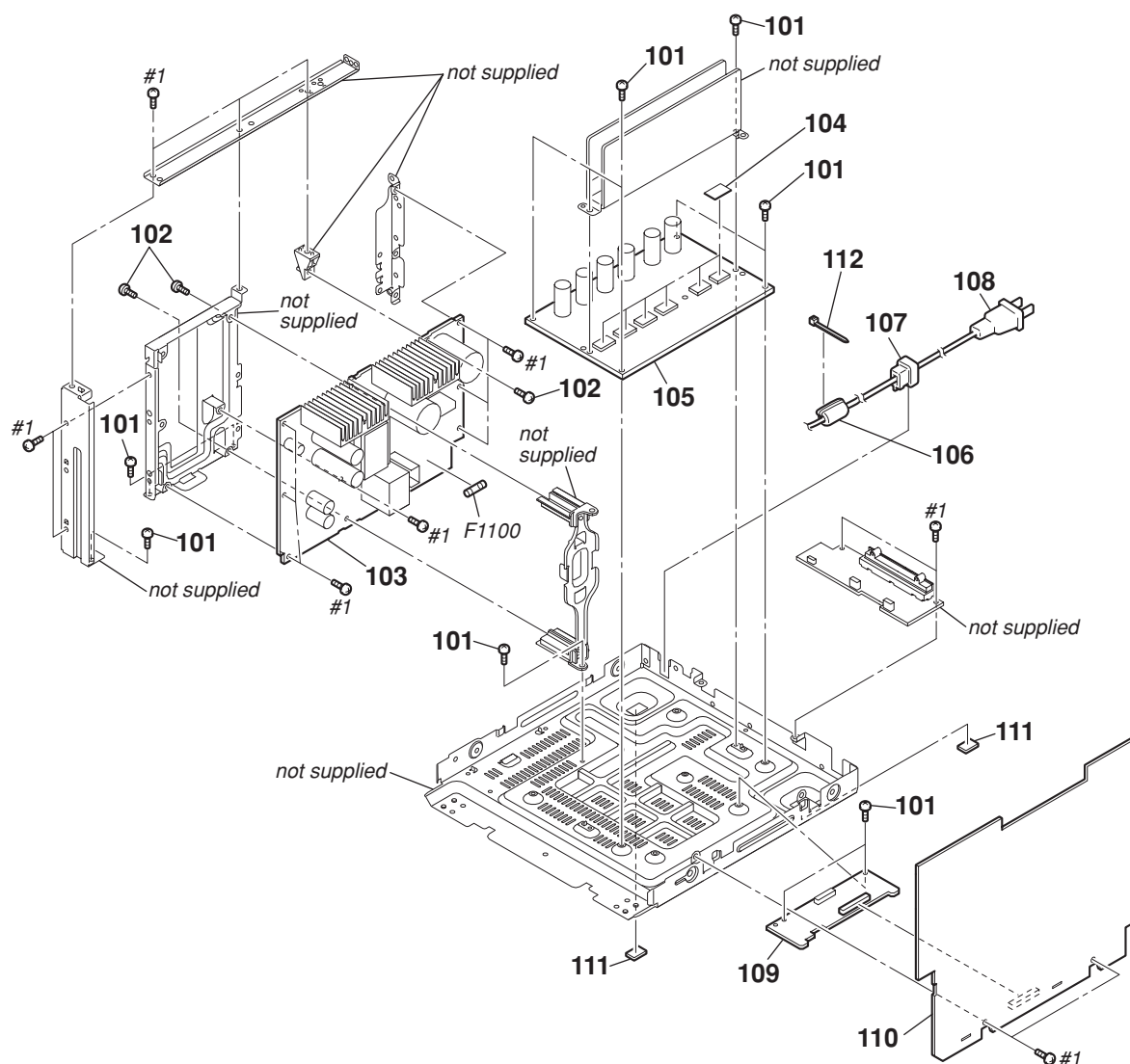
Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
1	2-658-345-51	PANEL, LOADING (EXCEPT E2, E51, MX)		10	1-827-720-11	WIRE (FLAT TYPE) (11 CORE)	
1	2-658-345-81	PANEL, LOADING (E2, E51, MX)		11	1-829-030-11	WIRE (FLAT TYPE) (25 CORE)	
2	3-703-136-12	SCREW, TAPPING		12	A-1164-027-A	VIDEO BOARD, COMPLETE	
3	4-248-760-43	CASE, CABINET STEEL		13	A-1167-802-A	DMB15 BOARD, COMPLETE (E2, E51, MX)	
4	3-363-099-32	SCREW (CASE 3 TP2)		13	A-1167-915-A	DMB15 BOARD, COMPLETE (E3, E12, E13, E15, EA)	
5	3-363-099-02	SCREW (CASE 3 TP2)		13	A-1188-872-A	DMB15 BOARD, COMPLETE (PH, SP, MY, TH)	
6	2-630-050-01	+BVTT 3X6 (SUMITITE)		14	1-828-326-11	WIRE (FLAT TYPE) (13 CORE) (65mm)	
7	1-693-702-11	TUNER (FM/AM) (TM10SE)		15	3-378-109-12	CUSHION, SARANET	
8	1-828-589-11	WIRE (FLAT TYPE) (13 CORE) (130mm)		M891	1-763-372-11	FAN, DC	
9	1-828-624-11	WIRE (FLAT TYPE) (19 CORE)		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	

8-2. FRONT PANEL SECTION



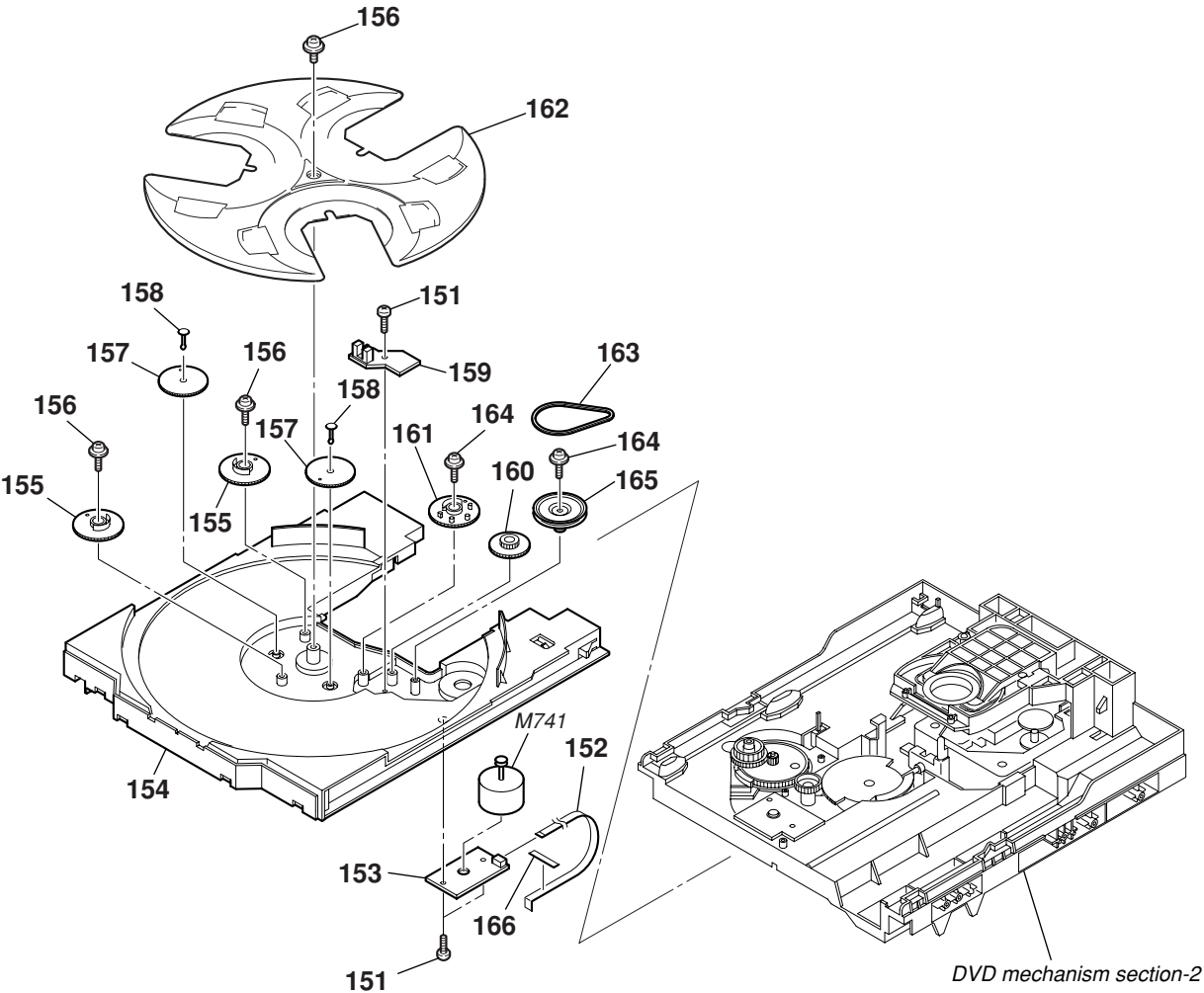
Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
51	2-658-356-21	HOLDER (TC-R)		65	3-087-053-01	+BVTP2.6 (3CR)	
52	2-658-355-01	HOLDER (TC-L)		66	1-417-657-11	MECHA DECK (CWN42FR602)	
53	2-669-613-01	DETENT SPRING		67	A-1167-763-A	MIC BOARD, COMPLETE	
54	2-590-671-01	KNOB (VOL)		68	4-233-980-01	RUBBER FOOT	
55	X-2103-595-1	KNOB JOG ASSY		69	2-658-367-01	SPRING (L)	
56	4-238-628-03	MIC KNOB		70	4-231-836-01	SPRING (HEART CAM-A)	
57	2-658-350-01	WINDOW (FL)		71	2-658-368-01	SPRING (R)	
58	4-231-841-01	SPRING (HEART CAM-B)		72	4-231-824-01	CAM (A), HEART	
59	4-224-104-41	DAMPER		73	2-659-548-11	BUTTON (EQ2)	
60	4-231-825-01	CAM (B), HEART		74	2-658-354-01	BUTTON (EQ)	
61	2-658-343-41	PANEL, FRONT		75	2-658-349-01	BUTTON (DISPLAY)	
62	X-2103-446-A	BUTTON (FUNCTION) ASSY		76	2-658-348-01	BUTTON (REC)	
63	A-1167-773-A	PANEL BOARD, COMPLETE		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
64	2-658-347-11	BUTTON (DISC)					

8-3. CHASSIS SECTION



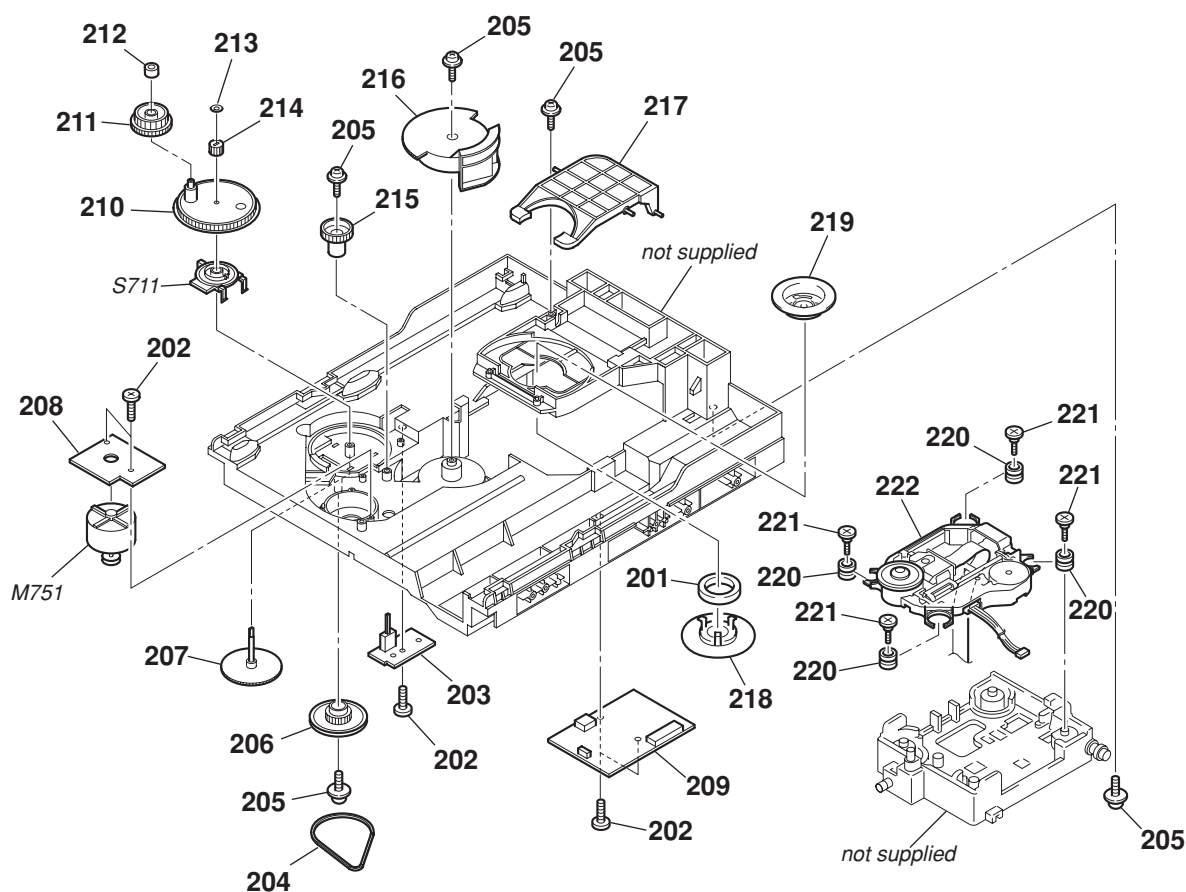
Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
101	2-630-050-01	+BVTT 3X6 (SUMITITE)		109	A-1164-109-A	ADC BOARD, COMPLETE	
102	3-703-136-12	SCREW, TAPPING		110	A-1159-580-A	MAIN BOARD, COMPLETE (E2)	
103	A-1167-603-A	POWER BOARD, COMPLETE (EXCEPT EA, MX, TH)		110	A-1167-897-A	MAIN BOARD, COMPLETE (E3)	
103	A-1189-367-A	POWER BOARD, COMPLETE (MX)		110	A-1189-358-A	MAIN BOARD, COMPLETE (MX)	
103	A-1189-384-A	POWER BOARD, COMPLETE (EA)		110	A-1189-370-A	MAIN BOARD, COMPLETE (E51)	
103	A-1189-399-A	POWER BOARD, COMPLETE (TH)		110	A-1189-373-A	MAIN BOARD, COMPLETE (PH)	
104	2-597-972-31	SHEET, RADIATION		110	A-1189-378-A	MAIN BOARD, COMPLETE (SP, MY)	
105	A-1164-106-A	SMATER BOARD, COMPLETE		110	A-1189-381-A	MAIN BOARD, COMPLETE (EA)	
106	1-500-497-11	FILTER, CLAMP (FERRITE CORE)		110	A-1189-387-A	MAIN BOARD, COMPLETE (E12)	
107	3-703-244-00	BUSHING (2104), CORD (EXCEPT MX)		110	A-1189-390-A	MAIN BOARD, COMPLETE (E15)	
* 107	3-703-571-12	BUSHING (S) (4516), CORD (MX)		110	A-1189-393-A	MAIN BOARD, COMPLETE (E13)	
△ 108	1-777-071-23	CORD, POWER (EA)		110	A-1189-396-A	MAIN BOARD, COMPLETE (TH)	
△ 108	1-824-818-11	CORD, POWER (WITH CONNECTOR) (TH)		111	4-225-252-01	CUSHION (FOOT)	
△ 108	1-827-226-31	CORD, POWER (MX)		112	3-701-748-00	CLAMP	
△ 108	1-830-188-11	CORD, POWER (EXCEPT EA, MX, TH)		△ F1100	1-532-506-33	FUSE (T6.3AL/250V)	
				#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	

8-4. DVD MECHANISM SECTION-1
(CDM74HF-DVBU101)



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
151	4-218-253-62	SCREW (M2.6), +BTTP		160	4-243-820-01	GEAR (TABLE)	
152	1-776-182-11	WIRE (FLAT TYPE) (5 CORE)		161	4-243-819-01	GEAR (GENEVA)	
153	1-687-134-12	MOTOR (TB) BOARD		162	4-243-816-21	TRAY	
154	4-243-815-11	TABLE (LOADING)		163	4-243-823-01	BELT (TABLE)	
155	4-245-571-02	GEAR (STOPPER)		164	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING	
156	4-218-252-61	SCREW (+PTPWH M2.6), FLOATING		165	4-243-821-01	PULLEY (TABLE)	
157	4-245-570-01	GEAR (JOINT)		166	3-231-598-01	SHEET (BA)	
158	4-245-572-01	BUSHING (GEAR)		M741	A-1108-965-A	MOTOR ASSY, TABLE	
159	1-687-132-12	SENSOR BOARD					

8-5. DVD MECHANISM SECTION-2 (CDM74HF-DVBU101)



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
201	4-251-923-01	YOKE (310)		213	3-016-533-11	WASHER (FR), STOPPER	
202	4-218-253-52	SCREW (M2.6), +BTTP		214	4-224-611-01	GEAR (LOADING B)	
203	1-687-669-12	SW BOARD		215	4-224-606-01	GEAR (RV)	
204	4-244-034-01	BELT (LOADING)					
205	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING		216	4-243-818-01	GEAR (U/D)	
				217	2-541-918-01	LEVER (LIFTER (H))	
206	4-225-844-01	GEAR (LOADING A)		218	2-345-982-01	PULLEY A (310), CHUCKING	
207	4-224-613-01	GEAR (SHAFT)		219	2-345-983-01	PULLEY B (310), CHUCKING	
208	1-687-133-12	MOTOR (LD) BOARD		220	2-634-618-01	INSULATOR	
209	A-1103-756-B	DRIVER BOARD, COMPLETE					
210	4-244-108-01	GEAR, SWING		221	3-087-599-01	INSULATOR SCREW	
211	4-224-609-01	GEAR (LOADING C)		△222	8-820-291-02	OPTICAL PICK-UP KHM-310CAB/C2RP	
212	4-224-608-01	COLLAR, SWING		M751	A-1108-966-A	MOTOR ASSY, LOADING	
				S711	1-477-680-12	ENCODER, ROTARY	

SECTION 9

ELECTRICAL PARTS LIST

ADC

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, -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: μ F
- RESISTORS
All resistors are in ohms.
METAL: metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F: nonflammable

- COILS
uH: μ H
- SEMICONDUCTORS
In each case, u: μ , for example:
uA..., μ A..., uPA..., μ PA...,
uPB..., μ PB..., uPC..., μ PC...,
uPD..., μ PD...
- Abbreviation
E2 : 120V AC Area in E model
E3 : 240V AC Area in E model
E12 : 220V-240V AC Area in E model
E13 : 220-230V AC area in E model
E15 : Iran model
E51 : Chilean and Peruvian model
EA : Saudi Arabia model

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

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

MX : Mexican model
MY : Malaysia model
PH : Philippines model
SP : Singapore model
TH : Thai model

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
	A-1164-109-A	ADC BOARD, COMPLETE *****		C75	1-126-964-11	ELECT 10uF 20%	50V
		< CAPACITOR >		C76	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C20	1-126-956-91	ELECT 0.1uF 20%	50V	C77	1-104-658-91	ELECT 100uF 20%	10V
C22	1-104-658-91	ELECT 100uF 20%	10V				
C23	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	C78	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C24	1-104-658-91	ELECT 100uF 20%	10V	C79	1-126-160-11	ELECT 1uF 20%	50V
C25	1-107-726-91	CERAMIC CHIP 0.01uF 10%	16V	C80	1-126-160-11	ELECT 1uF 20%	50V
				C81	1-107-726-91	CERAMIC CHIP 0.01uF 10%	16V
C26	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	C90	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
C27	1-126-963-11	ELECT 4.7uF 20%	50V	C91	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
C28	1-162-915-11	CERAMIC CHIP 10PF 0.5PF	50V	C92	1-162-962-11	CERAMIC CHIP 470PF 10%	50V
C29	1-162-915-11	CERAMIC CHIP 10PF 0.5PF	50V	C93	1-162-962-11	CERAMIC CHIP 470PF 10%	50V
C32	1-107-726-91	CERAMIC CHIP 0.01uF 10%	16V	C94	1-162-962-11	CERAMIC CHIP 470PF 10%	50V
				C95	1-162-962-11	CERAMIC CHIP 470PF 10%	50V
						< CONNECTOR >	
C40	1-164-156-11	CERAMIC CHIP 0.1uF	25V	CN01	1-766-720-41	CONNECTOR, BOARD TO BOARD 17P	
C41	1-164-156-11	CERAMIC CHIP 0.1uF	25V			< DIODE >	
C42	1-164-156-11	CERAMIC CHIP 0.1uF	25V	D11	8-719-988-61	DIODE 1SS355TE-17	
C50	1-164-156-11	CERAMIC CHIP 0.1uF	25V	D12	8-719-988-61	DIODE 1SS355TE-17	
C51	1-126-964-11	ELECT 10uF 20%	50V	D13	8-719-988-61	DIODE 1SS355TE-17	
				D14	8-719-988-61	DIODE 1SS355TE-17	
C53	1-104-658-91	ELECT 100uF 20%	10V	D51	8-719-988-61	DIODE 1SS355TE-17	
C54	1-164-156-11	CERAMIC CHIP 0.1uF	25V				
C55	1-126-964-11	ELECT 10uF 20%	50V	D52	8-719-988-61	DIODE 1SS355TE-17	
C56	1-164-156-11	CERAMIC CHIP 0.1uF	25V	D61	8-719-988-61	DIODE 1SS355TE-17	
C57	1-126-964-11	ELECT 10uF 20%	50V	D62	8-719-988-61	DIODE 1SS355TE-17	
				D71	8-719-988-61	DIODE 1SS355TE-17	
C58	1-164-156-11	CERAMIC CHIP 0.1uF	25V	D72	8-719-988-61	DIODE 1SS355TE-17	
C59	1-126-960-11	ELECT 1uF 20%	50V			< EARTH TERMINAL >	
C60	1-126-960-11	ELECT 1uF 20%	50V	EP01	1-537-738-21	TERMINAL, GROUND	
C61	1-164-156-11	CERAMIC CHIP 0.1uF	25V	EP02	1-537-738-21	TERMINAL, GROUND	
C62	1-126-964-11	ELECT 10uF 20%	50V			< FILTER >	
				FL01	1-234-177-21	FILTER, CHIP EMI	
C63	1-126-964-11	ELECT 10uF 20%	50V	FL02	1-234-177-21	FILTER, CHIP EMI	
C64	1-164-156-11	CERAMIC CHIP 0.1uF	25V			< IC >	
C65	1-126-964-11	ELECT 10uF 20%	50V	IC01	8-759-473-95	IC uPC2905T-E1	
C66	1-164-156-11	CERAMIC CHIP 0.1uF	25V	IC02	8-759-583-47	IC uPC2933T-E2	
C67	1-104-658-91	ELECT 100uF 20%	10V	IC03	8-759-387-77	IC TC7WU04F (TE12R)	
				IC11	6-707-608-01	IC PCM1803DBR	
C68	1-164-156-11	CERAMIC CHIP 0.1uF	25V				
C69	1-126-960-11	ELECT 1uF 20%	50V				
C70	1-126-960-11	ELECT 1uF 20%	50V				
C71	1-164-156-11	CERAMIC CHIP 0.1uF	25V				
C72	1-126-964-11	ELECT 10uF 20%	50V				
C73	1-126-964-11	ELECT 10uF 20%	50V				
C74	1-164-156-11	CERAMIC CHIP 0.1uF	25V				

Ref. No.	Part No.	Description				Remarks	Ref. No.	Part No.	Description				Remarks
IC12	6-707-608-01	IC PCM1803DBR					R65	1-216-864-11	SHORT CHIP	0			
IC13	6-707-608-01	IC PCM1803DBR					R66	1-216-864-11	SHORT CHIP	0			
							R67	1-216-864-11	SHORT CHIP	0			
							R70	1-216-864-11	SHORT CHIP	0			
< JUMPER RESISTOR >													
JR17	1-216-864-11	SHORT CHIP	0				R71	1-216-809-11	METAL CHIP	100	5%	1/10W	
JR18	1-216-864-11	SHORT CHIP	0				R72	1-216-809-11	METAL CHIP	100	5%	1/10W	
JR20	1-216-864-11	SHORT CHIP	0				R75	1-216-864-11	SHORT CHIP	0			
JR21	1-216-864-11	SHORT CHIP	0				< VIBRATOR >						
JR51	1-216-806-11	METAL CHIP	56	5%	1/10W		X001	1-795-843-11	VIBRATOR, CRYSTAL (12.288MHz)				
JR52	1-216-806-11	METAL CHIP	56	5%	1/10W		*****						
< COIL >								A-1167-802-A	DMB15 BOARD, COMPLETE (E2, E51, MX)				
L01	1-412-939-11	INDUCTOR	1uH					A-1167-915-A	DMB15 BOARD, COMPLETE				
L02	1-412-951-11	INDUCTOR	10uH						(E3, E12, E13, E15, EA)				
L03	1-412-951-11	INDUCTOR	10uH					A-1188-872-A	DMB15 BOARD, COMPLETE (PH, SP, MY, TH)				

< TRANSISTOR >								< CAPACITOR >					
Q05	6-550-889-01	TRANSISTOR	2SC5938-T112-1B				C101	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
Q06	6-550-889-01	TRANSISTOR	2SC5938-T112-1B				C102	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V	
Q07	6-550-889-01	TRANSISTOR	2SC5938-T112-1B				C105	1-126-205-11	ELECT CHIP	47uF	20%	6.3V	
Q08	6-550-889-01	TRANSISTOR	2SC5938-T112-1B				C106	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
Q34	6-550-889-01	TRANSISTOR	2SC5938-T112-1B				C108	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
< RESISTOR >								C109	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
R13	1-216-825-11	METAL CHIP	2.2K	5%	1/10W		C112	1-126-205-11	ELECT CHIP	47uF	20%	6.3V	
R15	1-216-845-11	METAL CHIP	100K	5%	1/10W		C113	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
R16	1-216-821-11	METAL CHIP	1K	5%	1/10W		C114	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
R17	1-216-825-11	METAL CHIP	2.2K	5%	1/10W		C115	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
R19	1-216-845-11	METAL CHIP	100K	5%	1/10W		C116	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
R20	1-216-821-11	METAL CHIP	1K	5%	1/10W		C117	1-124-779-00	ELECT CHIP	10uF	20%	16V	
R21	1-216-825-11	METAL CHIP	2.2K	5%	1/10W		C118	1-124-779-00	ELECT CHIP	10uF	20%	16V	
R23	1-216-845-11	METAL CHIP	100K	5%	1/10W		C119	1-124-779-00	ELECT CHIP	10uF	20%	16V	
R24	1-216-821-11	METAL CHIP	1K	5%	1/10W		C120	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	
R25	1-216-825-11	METAL CHIP	2.2K	5%	1/10W		C121	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	
R27	1-216-845-11	METAL CHIP	100K	5%	1/10W		C122	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	
R28	1-216-821-11	METAL CHIP	1K	5%	1/10W		C123	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	
R29	1-216-825-11	METAL CHIP	2.2K	5%	1/10W		C124	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	
R31	1-216-845-11	METAL CHIP	100K	5%	1/10W		C125	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
R32	1-216-821-11	METAL CHIP	1K	5%	1/10W		C126	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
R36	1-216-864-11	SHORT CHIP	0				C127	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
R38	1-216-864-11	SHORT CHIP	0				C128	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V	
R40	1-216-821-11	METAL CHIP	1K	5%	1/10W		C129	1-124-779-00	ELECT CHIP	10uF	20%	16V	
R41	1-216-857-11	METAL CHIP	1M	5%	1/10W		C130	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
R50	1-216-864-11	SHORT CHIP	0				C131	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V	
R52	1-216-809-11	METAL CHIP	100	5%	1/10W		C132	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
R53	1-216-809-11	METAL CHIP	100	5%	1/10W		C133	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
R55	1-216-864-11	SHORT CHIP	0				C135	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V	
R56	1-216-864-11	SHORT CHIP	0				C136	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
R57	1-216-864-11	SHORT CHIP	0				C137	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
R58	1-216-864-11	SHORT CHIP	0				C138	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
R59	1-216-864-11	SHORT CHIP	0				C139	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	
R60	1-216-864-11	SHORT CHIP	0				C140	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
R62	1-216-809-11	METAL CHIP	100	5%	1/10W		C144	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
R63	1-216-809-11	METAL CHIP	100	5%	1/10W		C146	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
R64	1-216-864-11	SHORT CHIP	0				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	

HCD-GN999D

DMB15

Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
C150	1-124-779-00	ELECT CHIP	10uF	20%	16V	C301	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C151	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V	C302	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C152	1-162-916-11	CERAMIC CHIP	12PF	5%	50V	C305	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C153	1-162-916-11	CERAMIC CHIP	12PF	5%	50V	C306	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C154	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C307	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C155	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C402	1-126-204-11	ELECT CHIP	47uF	20%	16V
C156	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C403	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C158	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C3701	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C159	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C3702	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C160	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C3703	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C161	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C3704	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C162	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C3705	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C163	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C3706	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C164	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C3707	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C167	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C3708	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C170	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C3711	1-162-977-11	CERAMIC CHIP	0.0018uF	10%	50V
C171	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C3712	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C172	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C3713	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C173	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C3714	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C174	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C3721	1-162-977-11	CERAMIC CHIP	0.0018uF	10%	50V
C175	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C3722	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C176	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C3723	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C177	1-126-205-11	ELECT CHIP	47uF	20%	6.3V	C3724	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C178	1-126-208-21	ELECT CHIP	47uF	20%	4V	C3731	1-162-977-11	CERAMIC CHIP	0.0018uF	10%	50V
C179	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C3732	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C180	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C3733	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C181	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C3734	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C182	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V	C3741	1-162-977-11	CERAMIC CHIP	0.0018uF	10%	50V
C184	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C3742	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C187	1-126-208-21	ELECT CHIP	47uF	20%	4V	C3743	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C188	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V	C3744	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C189	1-128-934-91	CERAMIC CHIP	0.33uF	20%	10V	C3751	1-162-977-11	CERAMIC CHIP	0.0018uF	10%	50V
C190	1-126-205-11	ELECT CHIP	47uF	20%	6.3V	C3752	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C191	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C3753	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C192	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C3754	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C193	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V	C3761	1-162-977-11	CERAMIC CHIP	0.0018uF	10%	50V
C195	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V	C3762	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C196	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	C3763	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C203	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C3764	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C205	1-164-230-11	CERAMIC CHIP	220PF	5%	50V	C3771	1-162-977-11	CERAMIC CHIP	0.0018uF	10%	50V
C206	1-164-230-11	CERAMIC CHIP	220PF	5%	50V	C3772	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C208	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C3773	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C209	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V	C3774	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C210	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C3781	1-162-977-11	CERAMIC CHIP	0.0018uF	10%	50V
C211	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V	C3782	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C212	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C3783	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C213	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C3784	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C214	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C3801	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C215	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C3802	1-117-370-11	CERAMIC CHIP	10uF		10V
C217	1-126-204-11	ELECT CHIP	47uF	20%	16V	C3803	1-126-209-11	ELECT CHIP	100uF	20%	4V
C218	1-124-779-00	ELECT CHIP	10uF	20%	16V	C3804	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C219	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C3805	1-126-208-21	ELECT CHIP	47uF	20%	4V
C220	1-124-779-00	ELECT CHIP	10uF	20%	16V	< CONNECTOR >					
C221	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	CN101	1-815-763-32	CONNECTOR, FFC/FPC 24P			
C222	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	* CN105	1-770-470-21	PIN, CONNECTOR (PC BOARD) 6P			
C224	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	CN106	1-793-989-21	FFC/CONNECTOR, FPC (LIF (NON-ZIF)) 13P			
C233	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	* CN201	1-770-470-21	PIN, CONNECTOR (PC BOARD) 6P			

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
CN301	1-793-989-21	FFC/CONNECTOR, FPC (LIF (NON-ZIF)) 13P		< RESISTOR >			
CN302	1-778-691-11	CONNECTOR, FFC/FPC 19P		R101	1-216-809-11	METAL CHIP 100	5% 1/10W
CN401	1-779-993-11	PIN, CONNECTOR (PWB) 5P		R104	1-216-864-11	SHORT CHIP 0	
		< DIODE >		R105	1-216-833-11	METAL CHIP 10K	5% 1/10W
D1001	8-719-058-24	DIODE RB501V-40TE-17		R106	1-216-833-11	METAL CHIP 10K	5% 1/10W
D3501	8-719-988-61	DIODE 1SS355TE-17		R107	1-216-833-11	METAL CHIP 10K	5% 1/10W
D3502	8-719-988-61	DIODE 1SS355TE-17		R108	1-216-857-11	METAL CHIP 1M	5% 1/10W
		< FERRITE BEAD >		R109	1-216-864-11	SHORT CHIP 0	
FB111	1-414-226-21	INDUCTOR, FERRITE BEAD		R110	1-216-841-11	METAL CHIP 47K	5% 1/10W
FB112	1-414-226-21	INDUCTOR, FERRITE BEAD		R111	1-216-809-11	METAL CHIP 100	5% 1/10W
FB113	1-414-226-21	INDUCTOR, FERRITE BEAD		R112	1-211-977-11	METAL CHIP 22	0.5% 1/10W
FB114	1-414-226-21	INDUCTOR, FERRITE BEAD		R113	1-211-977-11	METAL CHIP 22	0.5% 1/10W
FB115	1-414-226-21	INDUCTOR, FERRITE BEAD		R114	1-216-845-11	METAL CHIP 100K	5% 1/10W
FB401	1-469-324-21	FERRITE, EMI (SMD) (2012)		R115	1-211-977-11	METAL CHIP 22	0.5% 1/10W
FB402	1-469-324-21	FERRITE, EMI (SMD) (2012)		R116	1-216-821-11	METAL CHIP 1K	5% 1/10W
FB403	1-469-324-21	FERRITE, EMI (SMD) (2012)		R117	1-216-841-11	METAL CHIP 47K	5% 1/10W
FB404	1-469-324-21	FERRITE, EMI (SMD) (2012)		R118	1-216-801-11	METAL CHIP 22	5% 1/10W
FB405	1-469-324-21	FERRITE, EMI (SMD) (2012)		R120	1-216-801-11	METAL CHIP 22	5% 1/10W
FB406	1-469-324-21	FERRITE, EMI (SMD) (2012)		R121	1-216-801-11	METAL CHIP 22	5% 1/10W
		< FILTER >		R123	1-216-864-11	SHORT CHIP 0	
FL101	1-234-177-21	FILTER, CHIP EMI		R124	1-216-841-11	METAL CHIP 47K	5% 1/10W
FL104	1-234-177-21	FILTER, CHIP EMI		R126	1-216-864-11	SHORT CHIP 0	
FL105	1-234-177-21	FILTER, CHIP EMI		R127	1-216-809-11	METAL CHIP 100	5% 1/10W
FL106	1-234-177-21	FILTER, CHIP EMI		R136	1-216-835-11	METAL CHIP 15K	5% 1/10W
FL107	1-234-177-21	FILTER, CHIP EMI		R138	1-216-845-11	METAL CHIP 100K	5% 1/10W
FL108	1-234-177-21	FILTER, CHIP EMI		R141	1-218-916-11	METAL CHIP 750K	0.5% 1/10W
FL401	1-234-177-21	FILTER, CHIP EMI		R142	1-216-845-11	METAL CHIP 100K	5% 1/10W
FL402	1-233-893-21	FILTER, CHIP EMI		R146	1-216-805-11	METAL CHIP 47	5% 1/10W
FL403	1-234-177-21	FILTER, CHIP EMI		R151	1-216-805-11	METAL CHIP 47	5% 1/10W
		< IC >		R152	1-216-864-11	SHORT CHIP 0	
IC101	6-806-820-01	IC MX29LV320CBTC70-CBA3-0604UC (E2, E51, MX)		R153	1-216-805-11	METAL CHIP 47	5% 1/10W
IC101	6-806-338-01	IC MX29LV320CBTC70-CBA3-0601CE (E3, E12, E13, E15, EA)		R155	1-216-805-11	METAL CHIP 47	5% 1/10W
IC101	6-806-339-01	IC MX29LV320CBTC70-CBA3-0601GA (PH, SP, MY, TH)		R160	1-216-805-11	METAL CHIP 47	5% 1/10W
IC102	6-707-535-01	IC CXD9849R		R161	1-216-809-11	METAL CHIP 100	5% 1/10W
@ IC103	(Not Supplied)	IC BR24L64F-WE2		R164	1-216-809-11	METAL CHIP 100	5% 1/10W
IC104	6-709-370-01	IC A2V64S40CTP-G75		R169	1-216-833-11	METAL CHIP 10K	5% 1/10W
IC105	6-702-302-01	IC TK11133CSCL-G		R187	1-216-864-11	SHORT CHIP 0	
IC106	6-708-153-01	IC PQ018EN01ZPH		R189	1-218-827-11	METAL CHIP 150	0.5% 1/10W
IC107	6-702-302-01	IC TK11133CSCL-G		R190	1-218-827-11	METAL CHIP 150	0.5% 1/10W
IC201	6-704-524-01	IC FAN8036L		R191	1-216-821-11	METAL CHIP 1K	5% 1/10W
IC301	6-704-222-01	IC AK4358VQ-L		R192	1-218-827-11	METAL CHIP 150	0.5% 1/10W
IC3711	8-759-359-49	IC NJM3414AV (TE2)		R193	1-216-821-11	METAL CHIP 1K	5% 1/10W
IC3731	8-759-359-49	IC NJM3414AV (TE2)		R195	1-218-827-11	METAL CHIP 150	0.5% 1/10W
IC3751	8-759-359-49	IC NJM3414AV (TE2)		R196	1-216-864-11	SHORT CHIP 0	
IC3771	8-759-359-49	IC NJM3414AV (TE2)		R197	1-218-827-11	METAL CHIP 150	0.5% 1/10W
		< TRANSISTOR >		R204	1-216-822-11	METAL CHIP 1.2K	5% 1/10W
Q101	6-550-008-01	TRANSISTOR UM6K1N-TN		R205	1-216-833-11	METAL CHIP 10K	5% 1/10W
Q102	6-550-653-01	TRANSISTOR QST8TR		R206	1-216-833-11	METAL CHIP 10K	5% 1/10W
Q103	8-729-027-52	TRANSISTOR DTC124EKA-T146		R207	1-216-826-11	METAL CHIP 2.7K	5% 1/10W
Q3801	8-729-230-49	TRANSISTOR 2SC2712-YG		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	0.5% 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

@ NOTE ON REPLACEMENT OF DMB15 BOARD

New part of EEPROM (IC103) on the DMB15 board cannot be used. Therefore, if the mounted DMB15 board (A-1167-802-A or A-1167-915-A or A-1188-872-A) is replaced, exchange new EEPROM with that used before the replacement.

HCD-GN999D

DMB15

Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
R219	1-216-838-11	METAL CHIP	27K	5%	1/10W	R1554	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R220	1-216-833-11	METAL CHIP	10K	5%	1/10W	R1557	1-216-809-11	METAL CHIP	100	5%	1/10W
R221	1-218-889-11	METAL CHIP	56K	0.5%	1/10W	R1559	1-216-833-11	METAL CHIP	10K	5%	1/10W
R223	1-218-895-11	METAL CHIP	100K	0.5%	1/10W	R2504	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R224	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3502	1-216-809-11	METAL CHIP	100	5%	1/10W
R225	1-218-895-11	METAL CHIP	100K	0.5%	1/10W	R3503	1-216-809-11	METAL CHIP	100	5%	1/10W
R226	1-218-889-11	METAL CHIP	56K	0.5%	1/10W	R3651	1-216-864-11	SHORT CHIP	0		
R230	1-218-893-11	METAL CHIP	82K	0.5%	1/10W	R3652	1-216-864-11	SHORT CHIP	0		
R231	1-218-875-11	METAL CHIP	15K	0.5%	1/10W	R3653	1-216-864-11	SHORT CHIP	0		
R232	1-218-877-11	METAL CHIP	18K	0.5%	1/10W	R3711	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R233	1-218-883-11	METAL CHIP	33K	0.5%	1/10W	R3712	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R234	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3713	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R246	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R3714	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R247	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3715	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R314	1-216-809-11	METAL CHIP	100	5%	1/10W	R3716	1-216-821-11	METAL CHIP	1K	5%	1/10W
R319	1-216-864-11	SHORT CHIP	0			R3717	1-216-821-11	METAL CHIP	1K	5%	1/10W
R321	1-216-864-11	SHORT CHIP	0			R3718	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1101	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R3719	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1102	1-218-827-11	METAL CHIP	150	0.5%	1/10W	R3721	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R1103	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3722	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R1104	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3723	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R1105	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3724	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R1108	1-216-864-11	SHORT CHIP	0			R3725	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1109	1-216-864-11	SHORT CHIP	0			R3726	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1110	1-216-826-11	METAL CHIP	2.7K	5%	1/10W	R3727	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1120	1-216-864-11	SHORT CHIP	0			R3728	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1121	1-216-864-11	SHORT CHIP	0			R3729	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1122	1-216-864-11	SHORT CHIP	0			R3731	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R1123	1-216-864-11	SHORT CHIP	0			R3732	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R1124	1-216-864-11	SHORT CHIP	0			R3733	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R1125	1-216-864-11	SHORT CHIP	0			R3734	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R1126	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3735	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1129	1-216-845-11	METAL CHIP	100K	5%	1/10W	R3736	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1133	1-216-864-11	SHORT CHIP	0			R3737	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1134	1-216-864-11	SHORT CHIP	0			R3738	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1150	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R3739	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1151	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R3741	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R1152	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R3742	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R1161	1-216-864-11	SHORT CHIP	0			R3743	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R1168	1-216-817-11	METAL CHIP	470	5%	1/10W	R3744	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R1502	1-216-864-11	SHORT CHIP	0			R3745	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1504	1-400-244-11	BEAD, FERRITE (CHIP) (1608)				R3746	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1524	1-216-864-11	SHORT CHIP	0			R3747	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1526	1-216-864-11	SHORT CHIP	0			R3748	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1530	1-216-864-11	SHORT CHIP	0			R3749	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1531	1-216-864-11	SHORT CHIP	0			R3751	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R1540	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R3752	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R1542	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3753	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R1543	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3754	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R1544	1-216-864-11	SHORT CHIP	0			R3755	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1546	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R3756	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1547	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R3757	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1548	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R3758	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1549	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R3759	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1550	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R3761	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R1551	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R3762	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R1552	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3763	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R1553	1-216-864-11	SHORT CHIP	0								

Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
R3764	1-216-828-11	METAL CHIP	3.9K	5%	1/10W	C736	1-164-159-21	CERAMIC	0.1uF		50V
R3765	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	C737	1-164-159-21	CERAMIC	0.1uF		50V
R3766	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R3767	1-216-821-11	METAL CHIP	1K	5%	1/10W	C741	1-162-306-11	CERAMIC	0.01uF	20%	16V
						C751	1-162-306-11	CERAMIC	0.01uF	20%	16V
R3768	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	C752	1-164-159-21	CERAMIC	0.1uF		50V
R3769	1-216-821-11	METAL CHIP	1K	5%	1/10W			< CONNECTOR >			
R3771	1-216-823-11	METAL CHIP	1.5K	5%	1/10W						
R3772	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	CN701	1-784-735-11	CONNECTOR, FFC 13P			
R3773	1-216-828-11	METAL CHIP	3.9K	5%	1/10W	CN702	1-784-766-11	CONNECTOR, FFC 5P			
						* CN703	1-564-720-11	PIN, CONNECTOR (SMALL TYPE) 4P			
R3774	1-216-828-11	METAL CHIP	3.9K	5%	1/10W	CN704	1-785-328-11	PIN, CONNECTOR (LIGHT ANGRE) 2P			
R3775	1-216-829-11	METAL CHIP	4.7K	5%	1/10W			< DIODE >			
R3776	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R3777	1-216-821-11	METAL CHIP	1K	5%	1/10W	D701	8-719-921-42	DIODE MTZJ-5.1A			
R3778	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	D711	8-719-109-69	DIODE RD3.6ESB2			
								< IC >			
R3779	1-216-821-11	METAL CHIP	1K	5%	1/10W	IC701	8-759-598-69	IC BA6956AN			
R3781	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	IC712	8-759-598-69	IC BA6956AN			
R3782	1-216-823-11	METAL CHIP	1.5K	5%	1/10W			< TRANSISTOR >			
R3783	1-216-828-11	METAL CHIP	3.9K	5%	1/10W						
R3784	1-216-828-11	METAL CHIP	3.9K	5%	1/10W	Q731	8-729-029-66	TRANSISTOR DTC114ESA			
								< RESISTOR >			
R3785	1-216-829-11	METAL CHIP	4.7K	5%	1/10W						
R3786	1-216-821-11	METAL CHIP	1K	5%	1/10W	R701	1-249-413-11	CARBON	470	5%	1/4W
R3787	1-216-821-11	METAL CHIP	1K	5%	1/10W	R702	1-247-807-31	CARBON	100	5%	1/4W
R3788	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R711	1-249-417-11	CARBON	1K	5%	1/4W
R3789	1-216-821-11	METAL CHIP	1K	5%	1/10W	R712	1-249-425-11	CARBON	4.7K	5%	1/4W
						R713	1-249-433-11	CARBON	22K	5%	1/4W
R3801	1-216-864-11	SHORT CHIP	0								
R3802	1-216-864-11	SHORT CHIP	0			R721	1-249-425-11	CARBON	4.7K	5%	1/4W
R3803	1-216-833-11	METAL CHIP	10K	5%	1/10W	R722	1-249-425-11	CARBON	4.7K	5%	1/4W
R3804	1-216-836-11	METAL CHIP	18K	5%	1/10W	R723	1-249-425-11	CARBON	4.7K	5%	1/4W
R3805	1-216-821-11	METAL CHIP	1K	5%	1/10W	R731	1-247-807-31	CARBON	100	5%	1/4W
						R732	1-249-429-11	CARBON	10K	5%	1/4W
R4701	1-216-864-11	SHORT CHIP	0								
R4702	1-216-864-11	SHORT CHIP	0			R733	1-249-417-11	CARBON	1K	5%	1/4W
R4703	1-216-864-11	SHORT CHIP	0			R734	1-249-430-11	CARBON	12K	5%	1/4W
R4704	1-216-864-11	SHORT CHIP	0			R736	1-249-412-11	CARBON	390	5%	1/4W
R4705	1-216-864-11	SHORT CHIP	0			R751	1-249-425-11	CARBON	4.7K	5%	1/4W

R4706	1-216-864-11	SHORT CHIP	0					IR BOARD			

		< COMPOSITION CIRCUIT BLOCK >						< CAPACITOR >			
RB103	1-234-795-21	RES, NETWORK 0X4 (2010)									
RB104	1-234-795-21	RES, NETWORK 0X4 (2010)				C1308	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
RB105	1-234-371-21	RES, NETWORK 47 (1005X4)						< CONNECTOR >			
RB106	1-234-371-21	RES, NETWORK 47 (1005X4)									
RB107	1-234-370-21	RES, NETWORK 22 (1005X4)				CN1403	1-816-423-11	SOCKET, CONNECTOR 3P			
								< IC >			
RB108	1-234-370-21	RES, NETWORK 22 (1005X4)									
RB111	1-234-795-21	RES, NETWORK 0X4 (2010)				IC1301	6-600-309-01	IC RPM7240-H9 (図)			
RB112	1-234-370-21	RES, NETWORK 22 (1005X4)						< RESISTOR >			
RB113	1-234-370-21	RES, NETWORK 22 (1005X4)									
		< VIBRATOR >									
X101	1-781-867-21	VIBRATOR, CRYSTAL (27MHz)				R1306	1-216-805-11	METAL CHIP	47	5%	1/10W
		*****						*****			
	A-1103-756-B	DRIVER BOARD, COMPLETE									

		< CAPACITOR >									
C715	1-126-933-11	ELECT	100uF	20%	16V						
C731	1-126-964-11	ELECT	10uF	20%	50V						
C735	1-164-159-21	CERAMIC	0.1uF		50V						

KARAOKE MAIN

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Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
C140	1-126-947-11	ELECT	47uF	20%	35V	C215	1-126-964-11	ELECT	10uF	20%	50V
C141	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C216	1-136-497-81	FILM	0.1uF	5%	50V
C142	1-130-481-00	MYLAR	0.0068uF	5%	50V						
C144	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	C226	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C145	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	C228	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
						C230	1-126-961-11	ELECT	2.2uF	20%	50V
C147	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	C234	1-126-926-11	ELECT	1000uF	20%	10V
C148	1-126-961-11	ELECT	2.2uF	20%	50V	C235	1-216-864-11	SHORT CHIP	0		
C150	1-126-964-11	ELECT	10uF	20%	50V						
C151	1-126-964-11	ELECT	10uF	20%	50V	C236	1-126-964-11	ELECT	10uF	20%	50V
C152	1-126-964-11	ELECT	10uF	20%	50V	C237	1-126-964-11	ELECT	10uF	20%	50V
						C238	1-126-964-11	ELECT	10uF	20%	50V
C153	1-126-964-11	ELECT	10uF	20%	50V	C239	1-126-964-11	ELECT	10uF	20%	50V
C154	1-126-964-11	ELECT	10uF	20%	50V	C261	1-126-964-11	ELECT	10uF	20%	50V
C156	1-115-412-11	CERAMIC CHIP	680PF	5%	25V						
C157	1-136-497-81	FILM	0.1uF	5%	50V	C262	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C158	1-104-700-11	CERAMIC CHIP	0.027uF	10%	16V	C263	1-126-964-11	ELECT	10uF	20%	50V
						C264	1-126-964-11	ELECT	10uF	20%	50V
C159	1-104-700-11	CERAMIC CHIP	0.027uF	10%	16V	C267	1-126-964-11	ELECT	10uF	20%	50V
C160	1-126-964-11	ELECT	10uF	20%	50V	C270	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C161	1-100-436-91	CERAMIC CHIP	0.033uF	10%	25V						
C162	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	C272	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C163	1-126-964-11	ELECT	10uF	20%	50V	C273	1-126-964-11	ELECT	10uF	20%	50V
						C274	1-126-964-11	ELECT	10uF	20%	50V
C164	1-136-175-00	FILM	0.68uF	5%	50V	C286	1-126-964-11	ELECT	10uF	20%	50V
C165	1-137-195-11	FILM	0.56uF	5%	50V	C287	1-126-964-11	ELECT	10uF	20%	50V
C166	1-126-963-11	ELECT	4.7uF	20%	50V						
C168	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	C288	1-126-964-11	ELECT	10uF	20%	50V
C169	1-126-964-11	ELECT	10uF	20%	50V	C289	1-126-964-11	ELECT	10uF	20%	50V
						C301	1-126-965-91	ELECT	22uF	20%	50V
C170	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C302	1-126-965-91	ELECT	22uF	20%	50V
C171	1-126-960-11	ELECT	1uF	20%	50V	C303	1-126-961-11	ELECT	2.2uF	20%	50V
C172	1-126-964-11	ELECT	10uF	20%	50V						
C173	1-162-957-11	CERAMIC CHIP	220PF	5%	50V	C304	1-126-961-11	ELECT	2.2uF	20%	50V
C174	1-162-928-11	CERAMIC CHIP	120PF	5%	50V	C307	1-126-961-11	ELECT	2.2uF	20%	50V
						C308	1-126-961-11	ELECT	2.2uF	20%	50V
C175	1-162-959-11	CERAMIC CHIP	330PF	5%	50V	C410	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C176	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C411	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C177	1-137-194-81	FILM	0.47uF	5%	50V						
C178	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C412	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C179	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C414	1-164-156-11	CERAMIC CHIP	0.1uF		25V
						C416	1-126-917-11	ELECT	3300uF	20%	6.3V
C180	1-164-172-11	CERAMIC CHIP	0.0056uF	10%	25V	C462	1-104-658-91	ELECT	100uF	20%	10V
C184	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C464	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C185	1-162-927-11	CERAMIC CHIP	100PF	5%	50V						
C186	1-110-563-11	CERAMIC CHIP	0.068uF	10%	16V	C486	1-126-935-11	ELECT	470uF	20%	16V
C187	1-104-658-91	ELECT	100uF	20%	10V	C496	1-126-964-11	ELECT	10uF	20%	50V
						C498	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C188	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V	C499	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C189	1-162-957-11	CERAMIC CHIP	220PF	5%	50V	C504	1-126-926-11	ELECT	1000uF	20%	10V
C190	1-162-957-11	CERAMIC CHIP	220PF	5%	50V						
C191	1-137-189-11	FILM	0.18uF	5%	50V	C520	1-126-964-11	ELECT	10uF	20%	50V
C192	1-126-960-11	ELECT	1uF	20%	50V	C521	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
						C531	1-113-619-11	CERAMIC CHIP	0.47uF		10V
C193	1-137-189-11	FILM	0.18uF	5%	50V	C539	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C194	1-126-964-11	ELECT	10uF	20%	50V	C550	1-128-547-11	ELECT	6800uF	20%	16V
C195	1-126-960-11	ELECT	1uF	20%	50V						
C197	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	C551	1-126-960-11	ELECT	1uF	20%	50V
C198	1-126-961-11	ELECT	2.2uF	20%	50V	C552	1-126-925-91	ELECT	470uF	20%	10V
						C553	1-126-960-11	ELECT	1uF	20%	50V
C199	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	C554	1-126-925-91	ELECT	470uF	20%	10V
C200	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	C555	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C201	1-162-953-11	CERAMIC CHIP	100PF	5%	50V						
C202	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C556	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C203	1-162-953-11	CERAMIC CHIP	100PF	5%	50V	C566	1-126-960-11	ELECT	1uF	20%	50V
						C567	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C204	1-162-953-11	CERAMIC CHIP	100PF	5%	50V	C568	1-126-916-11	ELECT	1000uF	20%	6.3V
C213	1-136-497-81	FILM	0.1uF	5%	50V	C570	1-126-964-11	ELECT	10uF	20%	50V
C214	1-136-497-81	FILM	0.1uF	5%	50V						

HCD-GN999D

MAIN

Ref. No.	Part No.	Description	Remarks
C571	1-162-960-11	CERAMIC CHIP 220PF 10% 50V	
C580	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C581	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C582	1-128-547-11	ELECT 6800uF 20% 16V	
C583	1-126-963-11	ELECT 4.7uF 20% 50V	
C585	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
< CONNECTOR >			
CN101	1-568-830-11	CONNECTOR, FFC 11P	
CN105	1-784-780-11	CONNECTOR, FFC 19P	
* CN111	1-568-449-11	HOUSING, CONNECTOR (PC BOARD) 3P	
CN121	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P	
* CN131	1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P	
CN201	1-784-786-11	CONNECTOR, FFC 25P	
CN205	1-785-323-11	PIN, CONNECTOR (STRAIGHT) 11P	
CN301	1-779-281-11	CONNECTOR, FFC (LIF (NON-ZIF)) 13P	
* CN381	1-766-718-21	CONNECTOR, BOARD TO BOARD 17P	
* CN403	1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P	
CN405	1-784-774-11	CONNECTOR, FFC 13P	
CN406	1-568-828-11	CONNECTOR, FFC 9P	
CN521	1-779-287-11	CONNECTOR, FFC (LIF (NON-ZIF)) 19P	
CN580	1-564-506-11	PLUG, CONNECTOR 3P	
* CN590	1-564-510-11	PLUG, CONNECTOR 7P	
< DIODE >			
D101	6-501-193-01	DIODE 1SS355WTE-17	
D102	6-501-193-01	DIODE 1SS355WTE-17	
D104	6-501-193-01	DIODE 1SS355WTE-17	
D134	6-500-522-21	DIODE 10EDB40-TB3	
D135	6-500-522-21	DIODE 10EDB40-TB3	
D136	8-719-069-55	DIODE UDZSTE-175.6B	
D213	6-501-193-01	DIODE 1SS355WTE-17	
D214	6-501-193-01	DIODE 1SS355WTE-17	
D215	6-501-193-01	DIODE 1SS355WTE-17	
D216	6-501-193-01	DIODE 1SS355WTE-17	
D230	6-501-193-01	DIODE 1SS355WTE-17	
D231	6-501-193-01	DIODE 1SS355WTE-17	
D232	6-501-193-01	DIODE 1SS355WTE-17	
D393	6-501-193-01	DIODE 1SS355WTE-17	
D394	6-501-193-01	DIODE 1SS355WTE-17	
D395	6-501-193-01	DIODE 1SS355WTE-17	
D396	6-501-193-01	DIODE 1SS355WTE-17	
D486	6-501-193-01	DIODE 1SS355WTE-17	
D506	6-501-193-01	DIODE 1SS355WTE-17	
D580	6-501-193-01	DIODE 1SS355WTE-17	
D581	8-719-069-56	DIODE UDZSTE-176.2B	
D582	6-501-193-01	DIODE 1SS355WTE-17	
D583	8-719-978-33	DIODE DTZ-TT11-6.8B	
D594	6-500-522-21	DIODE 10EDB40-TB3	
< FERRITE BEAD >			
FB101	1-216-864-11	SHORT CHIP 0	
FB102	1-469-125-21	FERRITE, EMI (SMD) (1608)	
FB103	1-216-864-11	SHORT CHIP 0	
FB104	1-469-125-21	FERRITE, EMI (SMD) (1608)	
FB151	1-216-864-11	SHORT CHIP 0	
FB152	1-469-125-21	FERRITE, EMI (SMD) (1608)	
FB153	1-216-864-11	SHORT CHIP 0	

Ref. No.	Part No.	Description	Remarks
FB505	1-216-864-11	SHORT CHIP 0	
FB513	1-414-235-22	INDUCTOR, FERRITE BEAD	
FB514	1-414-235-22	INDUCTOR, FERRITE BEAD	
FB555	1-216-864-11	SHORT CHIP 0	
< IC >			
IC101	6-705-667-01	IC M61537FP-RF0G	
IC205	8-759-677-02	IC BU4053BCF-E2	
IC401	6-806-202-01	IC M30622MEP-A50FPUO	
IC402	6-701-680-01	IC PST3629NR	
IC403	6-707-095-01	IC BH2210FV-E2	
IC551	6-703-550-01	IC TA7809LS	
IC552	6-703-550-01	IC TA7809LS	
IC562	6-703-546-01	IC TA7804LS	
< JACK >			
J501	1-815-045-11	JACK, PIN 2P (TV/SAT IN)	
J506	1-820-048-11	CONNECTOR (D-LIGHT SYNC OUT)	
< JUMPER RESISTOR >			
JR001	1-216-296-11	SHORT CHIP 0	
JR002	1-216-864-11	SHORT CHIP 0	
JR003	1-216-864-11	SHORT CHIP 0	
JR004	1-216-864-11	SHORT CHIP 0	
JR005	1-216-864-11	SHORT CHIP 0	
JR006	1-216-864-11	SHORT CHIP 0	
JR007	1-216-864-11	SHORT CHIP 0	
JR008	1-216-864-11	SHORT CHIP 0	
JR009	1-216-864-11	SHORT CHIP 0	
JR010	1-216-864-11	SHORT CHIP 0	
JR011	1-216-864-11	SHORT CHIP 0	
JR012	1-216-864-11	SHORT CHIP 0	
JR013	1-216-296-11	SHORT CHIP 0	
JR014	1-216-296-11	SHORT CHIP 0	
JR015	1-216-864-11	SHORT CHIP 0	
JR016	1-216-864-11	SHORT CHIP 0	
JR017	1-216-864-11	SHORT CHIP 0	
JR018	1-216-864-11	SHORT CHIP 0	
JR019	1-216-864-11	SHORT CHIP 0	
JR020	1-216-864-11	SHORT CHIP 0	
JR021	1-216-296-11	SHORT CHIP 0	
JR022	1-216-864-11	SHORT CHIP 0	
JR023	1-216-864-11	SHORT CHIP 0	
JR026	1-216-864-11	SHORT CHIP 0	
JR027	1-216-864-11	SHORT CHIP 0	
JR028	1-216-864-11	SHORT CHIP 0	
JR029	1-216-864-11	SHORT CHIP 0	
JR030	1-216-864-11	SHORT CHIP 0	
JR031	1-216-864-11	SHORT CHIP 0	
JR032	1-216-864-11	SHORT CHIP 0	
JR033	1-216-864-11	SHORT CHIP 0	
JR036	1-216-864-11	SHORT CHIP 0	
JR037	1-216-864-11	SHORT CHIP 0	
JR040	1-216-864-11	SHORT CHIP 0	
JR042	1-216-864-11	SHORT CHIP 0	
JR043	1-216-864-11	SHORT CHIP 0	
JR044	1-216-864-11	SHORT CHIP 0	

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
JR047	1-216-864-11	SHORT CHIP	0	Q154	8-729-802-80	TRANSISTOR 2SC3661	
JR049	1-216-864-11	SHORT CHIP	0	Q155	8-729-802-80	TRANSISTOR 2SC3661	
JR050	1-216-864-11	SHORT CHIP	0	Q166	8-729-802-80	TRANSISTOR 2SC3661	
				Q175	8-729-802-80	TRANSISTOR 2SC3661	
JR051	1-216-864-11	SHORT CHIP	0	Q213	8-729-901-00	TRANSISTOR DTC124EK	
JR052	1-216-864-11	SHORT CHIP	0				
JR053	1-216-864-11	SHORT CHIP	0	Q235	8-729-802-80	TRANSISTOR 2SC3661	
JR054	1-216-864-11	SHORT CHIP	0	Q236	8-729-802-80	TRANSISTOR 2SC3661	
JR055	1-216-296-11	SHORT CHIP	0	Q237	8-729-802-80	TRANSISTOR 2SC3661	
				Q238	8-729-802-80	TRANSISTOR 2SC3661	
JR056	1-216-296-11	SHORT CHIP	0	Q260	8-729-027-43	TRANSISTOR DTC114EKA-T146	
JR057	1-216-296-11	SHORT CHIP	0				
JR059	1-216-296-11	SHORT CHIP	0	Q261	8-729-027-43	TRANSISTOR DTC114EKA-T146	
JR125	1-216-864-11	SHORT CHIP	0	Q285	8-729-802-80	TRANSISTOR 2SC3661	
JR152	1-216-296-11	SHORT CHIP	0	Q286	8-729-802-80	TRANSISTOR 2SC3661	
				Q287	8-729-802-80	TRANSISTOR 2SC3661	
JR153	1-216-296-11	SHORT CHIP	0	Q288	8-729-802-80	TRANSISTOR 2SC3661	
JR175	1-216-864-11	SHORT CHIP	0				
JR228	1-216-864-11	SHORT CHIP	0	Q301	8-729-027-31	TRANSISTOR DTA124EKA-T146	
JR260	1-216-864-11	SHORT CHIP	0	Q302	8-729-027-43	TRANSISTOR DTC114EKA-T146	
JR267	1-216-864-11	SHORT CHIP	0	Q303	8-729-027-31	TRANSISTOR DTA124EKA-T146	
				Q304	8-729-027-43	TRANSISTOR DTC114EKA-T146	
JR318	1-216-864-11	SHORT CHIP	0	Q307	8-729-027-31	TRANSISTOR DTA124EKA-T146	
JR381	1-216-864-11	SHORT CHIP	0				
JR467	1-216-864-11	SHORT CHIP	0	Q308	8-729-027-43	TRANSISTOR DTC114EKA-T146	
JR480	1-216-864-11	SHORT CHIP	0	Q486	8-729-027-43	TRANSISTOR DTC114EKA-T146	
JR481	1-216-864-11	SHORT CHIP	0	Q580	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
				Q582	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
JR487	1-216-864-11	SHORT CHIP	0	Q584	8-729-027-43	TRANSISTOR DTC114EKA-T146	
JR550	1-216-864-11	SHORT CHIP	0				
				Q585	8-729-026-68	TRANSISTOR 2SD2525 (TP)	
		< COIL >					
L103	1-410-780-11	INDUCTOR	27mH			< RESISTOR >	
L104	1-410-780-11	INDUCTOR	27mH	R101	1-216-812-11	METAL CHIP 180 5%	1/10W
L105	1-414-189-31	INDUCTOR	100uH	R102	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
				R103	1-216-833-11	METAL CHIP 10K 5%	1/10W
		< TRANSISTOR >		R104	1-216-841-11	METAL CHIP 47K 5%	1/10W
Q101	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R		R105	1-216-841-11	METAL CHIP 47K 5%	1/10W
Q103	8-729-802-80	TRANSISTOR 2SC3661					
Q104	8-729-802-80	TRANSISTOR 2SC3661		R106	1-216-830-11	METAL CHIP 5.6K 5%	1/10W
Q105	8-729-802-80	TRANSISTOR 2SC3661		R107	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
Q106	8-729-802-80	TRANSISTOR 2SC3661		R108	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
				R109	1-216-836-11	METAL CHIP 18K 5%	1/10W
Q107	8-729-216-22	TRANSISTOR 2SA1162-G		R110	1-216-851-11	METAL CHIP 330K 5%	1/10W
Q108	8-729-027-43	TRANSISTOR DTC114EKA-T146					
Q109	8-729-027-43	TRANSISTOR DTC114EKA-T146		R111	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q110	8-729-027-23	TRANSISTOR DTA114EKA-T146		R112	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q111	8-729-027-43	TRANSISTOR DTC114EKA-T146		R113	1-216-833-11	METAL CHIP 10K 5%	1/10W
				R114	1-216-864-11	SHORT CHIP 0	
Q112	8-729-141-75	TRANSISTOR 2SD596DV345		R115	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q113	6-550-185-01	TRANSISTOR RT1P137P-TP-1					
Q114	8-729-027-43	TRANSISTOR DTC114EKA-T146		R116	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q118	8-729-903-46	TRANSISTOR 2SB1132-P		R117	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
Q119	8-729-027-43	TRANSISTOR DTC114EKA-T146		R118	1-216-835-11	METAL CHIP 15K 5%	1/10W
				R119	1-216-817-11	METAL CHIP 470 5%	1/10W
Q120	8-729-903-46	TRANSISTOR 2SB1132-P		R120	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
Q121	8-729-027-43	TRANSISTOR DTC114EKA-T146					
Q122	8-729-903-46	TRANSISTOR 2SB1132-P		R121	1-216-827-11	METAL CHIP 3.3K 5%	1/10W
Q123	8-729-027-43	TRANSISTOR DTC114EKA-T146		R122	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
Q125	8-729-802-80	TRANSISTOR 2SC3661		R123	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
				R124	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
Q131	8-729-056-46	TRANSISTOR 2SC5053T100Q		R125	1-216-838-11	METAL CHIP 27K 5%	1/10W
Q132	8-729-027-43	TRANSISTOR DTC114EKA-T146					
Q133	8-729-027-43	TRANSISTOR DTC114EKA-T146		R126	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
Q151	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R		R127	1-216-830-11	METAL CHIP 5.6K 5%	1/10W
Q153	8-729-802-80	TRANSISTOR 2SC3661		R128	1-216-837-11	METAL CHIP 22K 5%	1/10W
				R129	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
				R130	1-216-841-11	METAL CHIP 47K 5%	1/10W

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MAIN

Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
R131	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R197	1-216-819-11	METAL CHIP	680	5%	1/10W
R133	1-216-857-11	METAL CHIP	1M	5%	1/10W	R198	1-469-125-21	FERRITE, EMI (SMD) (1608)			
R136	1-216-833-11	METAL CHIP	10K	5%	1/10W	R199	1-469-125-21	FERRITE, EMI (SMD) (1608)			
R138	1-216-841-11	METAL CHIP	47K	5%	1/10W	R200	1-216-841-11	METAL CHIP	47K	5%	1/10W
R139	1-216-864-11	SHORT CHIP	0			R202	1-216-809-11	METAL CHIP	100	5%	1/10W
R140	1-216-833-11	METAL CHIP	10K	5%	1/10W	R203	1-216-809-11	METAL CHIP	100	5%	1/10W
R141	1-216-833-11	METAL CHIP	10K	5%	1/10W	R204	1-216-809-11	METAL CHIP	100	5%	1/10W
R142	1-216-833-11	METAL CHIP	10K	5%	1/10W	R205	1-216-809-11	METAL CHIP	100	5%	1/10W
R143	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R207	1-216-809-11	METAL CHIP	100	5%	1/10W
R144	1-216-805-11	METAL CHIP	47	5%	1/10W	R209	1-216-809-11	METAL CHIP	100	5%	1/10W
R145	1-216-833-11	METAL CHIP	10K	5%	1/10W	R210	1-216-809-11	METAL CHIP	100	5%	1/10W
R146	1-216-797-11	METAL CHIP	10	5%	1/10W	R212	1-216-809-11	METAL CHIP	100	5%	1/10W
R147	1-216-803-11	METAL CHIP	33	5%	1/10W	R214	1-216-864-11	SHORT CHIP	0		
R148	1-216-841-11	METAL CHIP	47K	5%	1/10W	R215	1-216-821-11	METAL CHIP	1K	5%	1/10W
R149	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R216	1-216-813-11	METAL CHIP	220	5%	1/10W
R150	1-216-841-11	METAL CHIP	47K	5%	1/10W	R220	1-216-809-11	METAL CHIP	100	5%	1/10W
R151	1-216-812-11	METAL CHIP	180	5%	1/10W	R221	1-216-809-11	METAL CHIP	100	5%	1/10W
R152	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R222	1-216-809-11	METAL CHIP	100	5%	1/10W
R153	1-216-833-11	METAL CHIP	10K	5%	1/10W	R224	1-216-809-11	METAL CHIP	100	5%	1/10W
R154	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	R225	1-216-839-11	METAL CHIP	33K	5%	1/10W
R155	1-216-841-11	METAL CHIP	47K	5%	1/10W	R226	1-216-809-11	METAL CHIP	100	5%	1/10W
R156	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	R227	1-216-864-11	SHORT CHIP	0		
R157	1-216-836-11	METAL CHIP	18K	5%	1/10W	R230	1-216-809-11	METAL CHIP	100	5%	1/10W
R158	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R231	1-216-841-11	METAL CHIP	47K	5%	1/10W
R159	1-469-125-21	FERRITE, EMI (SMD) (1608)				R236	1-216-821-11	METAL CHIP	1K	5%	1/10W
R160	1-216-851-11	METAL CHIP	330K	5%	1/10W	R237	1-216-841-11	METAL CHIP	47K	5%	1/10W
R161	1-216-821-11	METAL CHIP	1K	5%	1/10W	R238	1-216-833-11	METAL CHIP	10K	5%	1/10W
R162	1-216-833-11	METAL CHIP	10K	5%	1/10W	R240	1-216-821-11	METAL CHIP	1K	5%	1/10W
R163	1-216-833-11	METAL CHIP	10K	5%	1/10W	R241	1-216-841-11	METAL CHIP	47K	5%	1/10W
R164	1-216-864-11	SHORT CHIP	0			R242	1-216-833-11	METAL CHIP	10K	5%	1/10W
R165	1-469-125-21	FERRITE, EMI (SMD) (1608)				R244	1-216-821-11	METAL CHIP	1K	5%	1/10W
R166	1-216-833-11	METAL CHIP	10K	5%	1/10W	R245	1-216-841-11	METAL CHIP	47K	5%	1/10W
R167	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R246	1-216-833-11	METAL CHIP	10K	5%	1/10W
R168	1-216-835-11	METAL CHIP	15K	5%	1/10W	R248	1-216-821-11	METAL CHIP	1K	5%	1/10W
R169	1-216-817-11	METAL CHIP	470	5%	1/10W	R249	1-216-841-11	METAL CHIP	47K	5%	1/10W
R172	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R250	1-216-833-11	METAL CHIP	10K	5%	1/10W
R173	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R260	1-216-833-11	METAL CHIP	10K	5%	1/10W
R174	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R261	1-216-841-11	METAL CHIP	47K	5%	1/10W
R175	1-216-838-11	METAL CHIP	27K	5%	1/10W	R262	1-216-841-11	METAL CHIP	47K	5%	1/10W
R176	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R263	1-216-841-11	METAL CHIP	47K	5%	1/10W
R177	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	R265	1-216-841-11	METAL CHIP	47K	5%	1/10W
R178	1-216-819-11	METAL CHIP	680	5%	1/10W	R267	1-216-864-11	SHORT CHIP	0		
R179	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R269	1-216-833-11	METAL CHIP	10K	5%	1/10W
R180	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R272	1-216-841-11	METAL CHIP	47K	5%	1/10W
R181	1-216-819-11	METAL CHIP	680	5%	1/10W	R273	1-216-841-11	METAL CHIP	47K	5%	1/10W
R182	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R281	1-216-864-11	SHORT CHIP	0		
R183	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R286	1-216-821-11	METAL CHIP	1K	5%	1/10W
R184	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R287	1-216-841-11	METAL CHIP	47K	5%	1/10W
R186	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R288	1-216-833-11	METAL CHIP	10K	5%	1/10W
R188	1-216-841-11	METAL CHIP	47K	5%	1/10W	R290	1-216-821-11	METAL CHIP	1K	5%	1/10W
R189	1-216-864-11	SHORT CHIP	0			R291	1-216-841-11	METAL CHIP	47K	5%	1/10W
R190	1-216-833-11	METAL CHIP	10K	5%	1/10W	R292	1-216-833-11	METAL CHIP	10K	5%	1/10W
R191	1-216-817-11	METAL CHIP	470	5%	1/10W	R294	1-216-821-11	METAL CHIP	1K	5%	1/10W
R192	1-216-817-11	METAL CHIP	470	5%	1/10W	R295	1-216-841-11	METAL CHIP	47K	5%	1/10W
R193	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R296	1-216-833-11	METAL CHIP	10K	5%	1/10W
R194	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R298	1-216-821-11	METAL CHIP	1K	5%	1/10W
R195	1-216-857-11	METAL CHIP	1M	5%	1/10W	R299	1-216-841-11	METAL CHIP	47K	5%	1/10W
R196	1-216-825-11	METAL CHIP	2.2K	5%	1/10W						

Ref. No.	Part No.	Description				Remarks	Ref. No.	Part No.	Description				Remarks
R300	1-216-833-11	METAL CHIP	10K	5%	1/10W		R436	1-216-809-11	METAL CHIP	100	5%	1/10W	
R301	1-216-833-11	METAL CHIP	10K	5%	1/10W		R437	1-216-809-11	METAL CHIP	100	5%	1/10W	
R302	1-216-837-11	METAL CHIP	22K	5%	1/10W		R438	1-216-809-11	METAL CHIP	100	5%	1/10W	
R303	1-216-845-11	METAL CHIP	100K	5%	1/10W		R439	1-216-809-11	METAL CHIP	100	5%	1/10W	
R304	1-216-835-11	METAL CHIP	15K	5%	1/10W		R440	1-216-809-11	METAL CHIP	100	5%	1/10W	
R305	1-216-843-11	METAL CHIP	68K	5%	1/10W		R441	1-216-809-11	METAL CHIP	100	5%	1/10W	
R308	1-216-853-11	METAL CHIP	470K	5%	1/10W		R442	1-216-809-11	METAL CHIP	100	5%	1/10W	
R309	1-216-833-11	METAL CHIP	10K	5%	1/10W		R443	1-216-809-11	METAL CHIP	100	5%	1/10W	
R310	1-216-835-11	METAL CHIP	15K	5%	1/10W		R444	1-216-809-11	METAL CHIP	100	5%	1/10W	
R311	1-216-843-11	METAL CHIP	68K	5%	1/10W		R445	1-216-809-11	METAL CHIP	100	5%	1/10W	
R312	1-216-853-11	METAL CHIP	470K	5%	1/10W		R446	1-216-809-11	METAL CHIP	100	5%	1/10W	
R323	1-216-833-11	METAL CHIP	10K	5%	1/10W		R447	1-216-809-11	METAL CHIP	100	5%	1/10W	
R329	1-216-833-11	METAL CHIP	10K	5%	1/10W		R448	1-216-809-11	METAL CHIP	100	5%	1/10W	
R330	1-216-833-11	METAL CHIP	10K	5%	1/10W		R449	1-216-809-11	METAL CHIP	100	5%	1/10W	
R337	1-216-833-11	METAL CHIP	10K	5%	1/10W		R450	1-216-809-11	METAL CHIP	100	5%	1/10W	
R338	1-216-833-11	METAL CHIP	10K	5%	1/10W		R451	1-216-809-11	METAL CHIP	100	5%	1/10W	
R340	1-216-833-11	METAL CHIP	10K	5%	1/10W		R452	1-216-809-11	METAL CHIP	100	5%	1/10W	
R341	1-216-833-11	METAL CHIP	10K	5%	1/10W		R453	1-216-809-11	METAL CHIP	100	5%	1/10W	
R354	1-216-833-11	METAL CHIP	10K	5%	1/10W		R454	1-216-809-11	METAL CHIP	100	5%	1/10W	
R355	1-216-833-11	METAL CHIP	10K	5%	1/10W		R455	1-216-809-11	METAL CHIP	100	5%	1/10W	
R372	1-216-833-11	METAL CHIP	10K	5%	1/10W		R456	1-216-812-11	METAL CHIP	180	5%	1/10W	
R373	1-216-833-11	METAL CHIP	10K	5%	1/10W		R457	1-216-809-11	METAL CHIP	100	5%	1/10W	
R374	1-216-833-11	METAL CHIP	10K	5%	1/10W		R458	1-216-809-11	METAL CHIP	100	5%	1/10W	
R380	1-216-833-11	METAL CHIP	10K	5%	1/10W		R459	1-216-809-11	METAL CHIP	100	5%	1/10W	
R385	1-216-833-11	METAL CHIP	10K	5%	1/10W		R460	1-216-809-11	METAL CHIP	100	5%	1/10W	
R392	1-216-823-11	METAL CHIP	1.5K	5%	1/10W		R461	1-216-809-11	METAL CHIP	100	5%	1/10W	
R393	1-216-811-11	METAL CHIP	150	5%	1/10W	(E13)	R463	1-216-809-11	METAL CHIP	100	5%	1/10W	
R393	1-216-821-11	METAL CHIP	1K	5%	1/10W	(E2, E51, MX)	R465	1-216-809-11	METAL CHIP	100	5%	1/10W	
R393	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	(E3, E12, E15, EA)	R472	1-216-809-11	METAL CHIP	100	5%	1/10W	
R394	1-216-827-11	METAL CHIP	3.3K	5%	1/10W		R473	1-216-809-11	METAL CHIP	100	5%	1/10W	
R395	1-216-827-11	METAL CHIP	3.3K	5%	1/10W		R474	1-216-809-11	METAL CHIP	100	5%	1/10W	
R397	1-216-827-11	METAL CHIP	3.3K	5%	1/10W		R476	1-216-809-11	METAL CHIP	100	5%	1/10W	
R401	1-216-809-11	METAL CHIP	100	5%	1/10W		R477	1-216-809-11	METAL CHIP	100	5%	1/10W	
R402	1-216-809-11	METAL CHIP	100	5%	1/10W		R478	1-216-809-11	METAL CHIP	100	5%	1/10W	
R403	1-216-809-11	METAL CHIP	100	5%	1/10W		R479	1-216-809-11	METAL CHIP	100	5%	1/10W	
R404	1-216-809-11	METAL CHIP	100	5%	1/10W		R480	1-216-809-11	METAL CHIP	100	5%	1/10W	
R411	1-216-851-11	METAL CHIP	330K	5%	1/10W		R483	1-216-809-11	METAL CHIP	100	5%	1/10W	
R412	1-216-845-11	METAL CHIP	100K	5%	1/10W		R484	1-216-809-11	METAL CHIP	100	5%	1/10W	
R413	1-216-864-11	SHORT CHIP	0				R485	1-216-809-11	METAL CHIP	100	5%	1/10W	
R417	1-216-833-11	METAL CHIP	10K	5%	1/10W		R486	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R420	1-216-821-11	METAL CHIP	1K	5%	1/10W		R488	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R421	1-216-809-11	METAL CHIP	100	5%	1/10W		R489	1-216-809-11	METAL CHIP	100	5%	1/10W	
R422	1-216-809-11	METAL CHIP	100	5%	1/10W		R490	1-216-809-11	METAL CHIP	100	5%	1/10W	
R423	1-216-809-11	METAL CHIP	100	5%	1/10W		R491	1-216-809-11	METAL CHIP	100	5%	1/10W	
R424	1-216-809-11	METAL CHIP	100	5%	1/10W		R492	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R425	1-216-809-11	METAL CHIP	100	5%	1/10W		R493	1-216-815-11	METAL CHIP	330	5%	1/10W	(E3, E15)
R426	1-216-809-11	METAL CHIP	100	5%	1/10W		R493	1-216-819-11	METAL CHIP	680	5%	1/10W	(E12)
R427	1-216-809-11	METAL CHIP	100	5%	1/10W		R493	1-216-821-11	METAL CHIP	1K	5%	1/10W	(EA)
R428	1-216-809-11	METAL CHIP	100	5%	1/10W		R493	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	(E2, E13, E51, MX)
R429	1-216-809-11	METAL CHIP	100	5%	1/10W		R493	1-216-864-11	SHORT CHIP	0 (PH, SP, MY, TH)			
R430	1-216-809-11	METAL CHIP	100	5%	1/10W		R494	1-216-813-11	METAL CHIP	220	5%	1/10W	
R431	1-216-809-11	METAL CHIP	100	5%	1/10W		R495	1-216-813-11	METAL CHIP	220	5%	1/10W	
R432	1-216-809-11	METAL CHIP	100	5%	1/10W		R497	1-216-813-11	METAL CHIP	220	5%	1/10W	
R433	1-216-809-11	METAL CHIP	100	5%	1/10W		R500	1-216-809-11	METAL CHIP	100	5%	1/10W	
R435	1-216-809-11	METAL CHIP	100	5%	1/10W		△R506	1-219-153-11	FUSIBLE	10	5%	1/4W	

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Ref. No.	Part No.	Description	Remarks		
R508	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R509	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R524	1-216-821-11	METAL CHIP	1K	5%	1/10W
R525	1-216-845-11	METAL CHIP	100K	5%	1/10W
R531	1-216-833-11	METAL CHIP	10K	5%	1/10W
(E2)					
R532	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
(E2)					
R532	1-216-864-11	SHORT CHIP	0 (EXCEPT E2)		
R574	1-216-821-11	METAL CHIP	1K	5%	1/10W
R575	1-216-845-11	METAL CHIP	100K	5%	1/10W
R576	1-216-841-11	METAL CHIP	47K	5%	1/10W
R577	1-216-845-11	METAL CHIP	100K	5%	1/10W
R578	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R579	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R580	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R581	1-216-833-11	METAL CHIP	10K	5%	1/10W
(E2)					
R582	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
(E2)					
R582	1-216-864-11	SHORT CHIP	0 (EXCEPT E2)		
R583	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R584	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R585	1-216-841-11	METAL CHIP	47K	5%	1/10W
R586	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R587	1-216-841-11	METAL CHIP	47K	5%	1/10W
R590	1-216-833-11	METAL CHIP	10K	5%	1/10W
R591	1-216-833-11	METAL CHIP	10K	5%	1/10W
R592	1-216-845-11	METAL CHIP	100K	5%	1/10W
R593	1-216-845-11	METAL CHIP	100K	5%	1/10W
< TRANSFORMER >					
T101	1-433-372-11	TRANSFORMER, BIAS OSCILLATION			
< VIBRATOR >					
X401	1-760-252-12	VIBRATOR, CRYSTAL (32.768kHz)			
X402	1-795-058-21	VIBRATOR, CERAMIC (5MHz)			

A-1167-763-A		MIC BOARD, COMPLETE			

< CAPACITOR >					
C1400	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1401	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C1403	1-109-864-91	CERAMIC CHIP	68PF	2%	50V
C1404	1-119-772-11	ELECT	47uF	20%	35V
C1405	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1406	1-124-589-11	ELECT	47uF	20%	16V
C1407	1-124-589-11	ELECT	47uF	20%	16V
C1408	1-126-163-11	ELECT	4.7uF	20%	50V
C1409	1-126-160-11	ELECT	1uF	20%	50V
C1410	1-126-160-11	ELECT	1uF	20%	50V
C1411	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1412	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1413	1-164-730-11	CERAMIC CHIP	0.0012uF	10%	50V
C1415	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C1416	1-128-131-11	ELECT	22uF	20%	50V

Ref. No.	Part No.	Description	Remarks		
C1418	1-164-392-11	CERAMIC CHIP	390PF	5%	50V
C1419	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C1422	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C1424	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C1426	1-124-261-00	ELECT	10uF	20%	50V
C1427	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C1429	1-124-463-00	ELECT	0.1uF	20%	50V
C1430	1-124-463-00	ELECT	0.1uF	20%	50V
C1433	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1434	1-124-261-00	ELECT	10uF	20%	50V
C1435	1-126-176-11	ELECT	220uF	20%	10V
C1436	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C1437	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1457	1-124-261-00	ELECT	10uF	20%	50V
C1458	1-126-163-11	ELECT	4.7uF	20%	50V
C1459	1-126-160-11	ELECT	1uF	20%	50V
C1460	1-126-160-11	ELECT	1uF	20%	50V
C1461	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1468	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C1476	1-124-261-00	ELECT	10uF	20%	50V
C1479	1-126-163-11	ELECT	4.7uF	20%	50V
C1486	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C1487	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
< DIODE >					
D1400	8-719-069-54	DIODE UDZSTE-175.1B			
< IC >					
IC1400	6-709-116-01	IC TC9488FG			
IC1401	8-759-710-97	IC NJM4565M-D			
< JACK >					
J1400	1-817-630-11	JACK (LARGE TYPE) (MIC 1)			
J1401	1-794-702-11	JACK, HEADPHONE (PHONES)			
J1402	1-764-592-11	JACK 3P (VIDEO INPUT)			
J1450	1-817-630-11	JACK (LARGE TYPE) (MIC 3)			
< JUMPER RESISTOR >					
JR1400	1-216-864-11	SHORT CHIP	0		
JR1401	1-216-864-11	SHORT CHIP	0		
JR1402	1-216-864-11	SHORT CHIP	0		
JR1403	1-216-296-11	SHORT CHIP	0		
JR1417	1-216-864-11	SHORT CHIP	0		
JR1427	1-216-864-11	SHORT CHIP	0		
JR1433	1-216-864-11	SHORT CHIP	0		
JR1483	1-216-864-11	SHORT CHIP	0		
< CONNECTOR >					
NO1400	1-785-328-11	PIN, CONNECTOR (LIGHT ANGRE) 2P			
NO1404	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P			
< TRANSISTOR >					
Q1400	8-729-802-80	TRANSISTOR	2SC3661		
Q1401	8-729-802-80	TRANSISTOR	2SC3661		
Q1450	8-729-802-80	TRANSISTOR	2SC3661		
Q1451	8-729-802-80	TRANSISTOR	2SC3661		

MIC

MOTOR (LD)

MOTOR (TB)

PANEL

Ref. No.	Part No.	Description	Remarks		
< RESISTOR >					
R1401	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1402	1-216-809-11	METAL CHIP	100	5%	1/10W
R1403	1-216-809-11	METAL CHIP	100	5%	1/10W
R1404	1-216-809-11	METAL CHIP	100	5%	1/10W
R1405	1-216-815-11	METAL CHIP	330	5%	1/10W
R1406	1-216-815-11	METAL CHIP	330	5%	1/10W
R1407	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R1409	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1410	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1411	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1412	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R1413	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1414	1-216-834-11	METAL CHIP	12K	5%	1/10W
R1415	1-216-835-11	METAL CHIP	15K	5%	1/10W
R1416	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1417	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1418	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1419	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1422	1-216-864-11	SHORT CHIP	0		
R1424	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1425	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1426	1-216-842-11	METAL CHIP	56K	5%	1/10W
R1427	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1431	1-216-864-11	SHORT CHIP	0		
R1432	1-216-797-11	METAL CHIP	10	5%	1/10W
R1433	1-216-797-11	METAL CHIP	10	5%	1/10W
R1434	1-216-797-11	METAL CHIP	10	5%	1/10W
R1435	1-216-797-11	METAL CHIP	10	5%	1/10W
R1436	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1437	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1438	1-216-864-11	SHORT CHIP	0		
R1439	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1440	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R1441	1-216-864-11	SHORT CHIP	0		
R1442	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1443	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1457	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R1459	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1460	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1461	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1469	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1476	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1477	1-216-835-11	METAL CHIP	15K	5%	1/10W
R1482	1-216-797-11	METAL CHIP	10	5%	1/10W
R1483	1-216-797-11	METAL CHIP	10	5%	1/10W
R1484	1-216-797-11	METAL CHIP	10	5%	1/10W
R1485	1-216-797-11	METAL CHIP	10	5%	1/10W
R1486	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1492	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1493	1-216-821-11	METAL CHIP	1K	5%	1/10W
< VARIABLE RESISTOR >					
RV1400	1-223-983-11	RES, VAR, CARBON	50K (MIC 1 LEVEL)		
RV1401	1-223-983-11	RES, VAR, CARBON	50K (MIC 2 LEVEL)		
RV1402	1-223-983-11	RES, VAR, CARBON	50K (ECHO LEVEL)		

Ref. No.	Part No.	Description	Remarks		
	1-687-133-12	MOTOR (LD)	*****		

	1-687-134-12	MOTOR (TB) BOARD	*****		
< CONNECTOR >					
CN742	1-784-727-11	CONNECTOR, FFC 5P	*****		

A-1167-773-A		PANEL BOARD, COMPLETE	*****		
< CAPACITOR >					
C1300	1-128-131-11	ELECT	22uF	20%	50V
C1301	1-162-995-11	CERAMIC CHIP	0.022uF		50V
C1302	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1304	1-126-969-11	ELECT	220uF	20%	50V
C1305	1-124-261-00	ELECT	10uF	20%	50V
C1306	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1307	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1309	1-124-589-11	ELECT	47uF	20%	16V
C1310	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1311	1-126-157-11	ELECT	10uF	20%	16V
C1312	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C1313	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C1314	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C1315	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C1316	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1317	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1318	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1319	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1320	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1321	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1322	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1323	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1324	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1325	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1326	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1327	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1328	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1329	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1330	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1331	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1357	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
< CONNECTOR >					
CN1402	1-784-747-11	CONNECTOR, FFC 25P			
CN1452	1-785-337-11	PIN, CONNECTOR (LIGHT ANGLE) 11P			
CN1453	1-818-282-11	PIN, CONNECTOR (FOR PWB) 3P			
< DIODE >					
D1300	6-501-193-01	DIODE	1SS355WTE-17		
D1301	6-501-193-01	DIODE	1SS355WTE-17		
D1302	6-501-193-01	DIODE	1SS355WTE-17		

HCD-GN999D

PANEL

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
D1303	6-501-193-01	DIODE 1SS355WTE-17		R1324	1-216-815-11	METAL CHIP 330 5%	1/10W
D1304	6-500-809-01	DIODE SELU5223C-STP15 (I/⏻)		R1325	1-216-815-11	METAL CHIP 330 5%	1/10W
D1305	8-719-059-18	DIODE RD6.2FM-T1		R1326	1-216-817-11	METAL CHIP 470 5%	1/10W
D1306	6-501-193-01	DIODE 1SS355WTE-17		R1327	1-216-819-11	METAL CHIP 680 5%	1/10W
D1313	6-501-228-01	DIODE SELU5420E-STP15 (SUB WOOFER ON/OFF)		R1328	1-216-821-11	METAL CHIP 1K 5%	1/10W
D1314	6-501-193-01	DIODE 1SS355WTE-17		R1330	1-216-815-11	METAL CHIP 330 5%	1/10W
		< FLUORESCENT INDICATOR >		R1331	1-216-817-11	METAL CHIP 470 5%	1/10W
FL1300	1-519-859-11	VACUUM FLUORESCENT DISPLAYS		R1332	1-216-819-11	METAL CHIP 680 5%	1/10W
		< IC >		R1345	1-216-809-11	METAL CHIP 100 5%	1/10W
IC1300	6-709-115-11	IC NJU3427FA2		R1346	1-216-821-11	METAL CHIP 1K 5%	1/10W
		< JUMPER RESISTOR >		R1347	1-216-817-11	METAL CHIP 470 5%	1/10W
JR1305	1-216-864-11	SHORT CHIP 0		R1348	1-216-821-11	METAL CHIP 1K 5%	1/10W
		< COIL >		R1351	1-216-809-11	METAL CHIP 100 5%	1/10W
L1300	1-410-671-31	INDUCTOR 47uH		R1352	1-216-809-11	METAL CHIP 100 5%	1/10W
		< TRANSISTOR >		R1353	1-216-809-11	METAL CHIP 100 5%	1/10W
Q1300	6-550-065-01	TRANSISTOR CPH5504-TL-E		R1355	1-216-809-11	METAL CHIP 100 5%	1/10W
Q1303	8-729-903-46	TRANSISTOR 2SB1132-P				< SWITCH >	
Q1304	8-729-903-46	TRANSISTOR 2SB1132-P		S1300	1-762-875-21	SWITCH, KEYBOARD (DISPLAY)	
Q1305	8-729-027-50	TRANSISTOR DTC123JKA-T146		S1301	1-762-875-21	SWITCH, KEYBOARD (I/⏻)	
Q1306	8-729-027-50	TRANSISTOR DTC123JKA-T146		S1302	1-762-875-21	SWITCH, KEYBOARD (SUB WOOFER ON/OFF)	
Q1307	8-729-027-50	TRANSISTOR DTC123JKA-T146		S1307	1-762-875-21	SWITCH, KEYBOARD (TV/SAT)	
Q1308	8-729-027-43	TRANSISTOR DTC114EKA-T146		S1308	1-762-875-21	SWITCH, KEYBOARD (VIDEO)	
Q1309	8-729-027-50	TRANSISTOR DTC123JKA-T146					
Q1310	8-729-027-43	TRANSISTOR DTC114EKA-T146		S1309	1-762-875-21	SWITCH, KEYBOARD (TAPE A/B)	
Q1311	8-729-027-56	TRANSISTOR DTC143TKA-T146		S1310	1-762-875-21	SWITCH, KEYBOARD (II)	
Q1312	8-729-027-56	TRANSISTOR DTC143TKA-T146		S1311	1-762-875-21	SWITCH, KEYBOARD (◀▶)	
Q1313	8-729-027-56	TRANSISTOR DTC143TKA-T146		S1312	1-762-875-21	SWITCH, KEYBOARD (DISC SKIP/EX-CHANGE)	
Q1314	8-729-027-56	TRANSISTOR DTC143TKA-T146		S1313	1-762-875-21	SWITCH, KEYBOARD (DISC 3)	
Q1315	8-729-027-56	TRANSISTOR DTC143TKA-T146					
Q1316	8-729-027-56	TRANSISTOR DTC143TKA-T146		S1314	1-762-875-21	SWITCH, KEYBOARD (DISC 2)	
		< RESISTOR >		S1315	1-762-875-21	SWITCH, KEYBOARD (DISC 1)	
R1300	1-216-827-11	METAL CHIP 3.3K 5%	1/10W	S1316	1-762-875-21	SWITCH, KEYBOARD (▲ OPEN/CLOSE)	
R1301	1-216-837-11	METAL CHIP 22K 5%	1/10W	S1317	1-762-875-21	SWITCH, KEYBOARD (■)	
R1302	1-216-837-11	METAL CHIP 22K 5%	1/10W	S1320	1-762-875-21	SWITCH, KEYBOARD (DIRECTION)	
R1303	1-216-809-11	METAL CHIP 100 5%	1/10W				
R1304	1-216-809-11	METAL CHIP 100 5%	1/10W	S1321	1-762-875-21	SWITCH, KEYBOARD (ILLUMINATION)	
R1305	1-215-871-11	METAL OXIDE 2.2K 5%	1W	S1322	1-762-875-21	SWITCH, KEYBOARD (TUNER/BAND)	
R1307	1-216-829-11	METAL CHIP 4.7K 5%	1/10W	S1323	1-762-875-21	SWITCH, KEYBOARD (DVD)	
R1308	1-216-821-11	METAL CHIP 1K 5%	1/10W	S1324	1-762-875-21	SWITCH, KEYBOARD (CD SYNC)	
R1311	1-216-825-11	METAL CHIP 2.2K 5%	1/10W	S1325	1-762-875-21	SWITCH, KEYBOARD (TUNING - ◀◀◀)	
R1313	1-216-814-11	METAL CHIP 270 5%	1/10W				
R1314	1-216-864-11	SHORT CHIP 0		S1326	1-762-875-21	SWITCH, KEYBOARD (TUNING + ▶▶▶)	
R1316	1-216-839-11	METAL CHIP 33K 5%	1/10W	S1327	1-762-875-21	SWITCH, KEYBOARD (REC PAUSE/START)	
R1317	1-216-833-11	METAL CHIP 10K 5%	1/10W			< TRANSFORMER >	
R1318	1-216-829-11	METAL CHIP 4.7K 5%	1/10W	T1300	1-443-894-11	DC/DC CONVERTER TRANSFORMER	
R1319	1-216-825-11	METAL CHIP 2.2K 5%	1/10W			*****	
R1320	1-216-823-11	METAL CHIP 1.5K 5%	1/10W				
R1321	1-216-821-11	METAL CHIP 1K 5%	1/10W				
R1322	1-216-819-11	METAL CHIP 680 5%	1/10W				
R1323	1-216-817-11	METAL CHIP 470 5%	1/10W				

Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
	A-1167-603-A	POWER BOARD, COMPLETE (EXCEPT EA, MX, TH)				C1217	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
	A-1189-367-A	POWER BOARD, COMPLETE (MX)				C1218	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
	A-1189-384-A	POWER BOARD, COMPLETE (EA)				C1219	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
	A-1189-399-A	POWER BOARD, COMPLETE (TH)									
		*****				C1220	1-112-474-11	CERAMIC	0.0022uF	10%	500V
						C1221	1-126-935-11	ELECT	470uF	20%	16V
						C1222	1-126-964-11	ELECT	10uF	20%	50V
	1-533-217-41	HOLDER, FUSE									
		< CAPACITOR >						< CONNECTOR >			
△ C1101	1-165-529-11	MYLAR	0.22uF	10	275V	* CN1101	1-564-243-11	PIN, CONNECTOR (3.96mm PITCH) 6P			
△ C1103	1-112-868-11	CERAMIC	330PF	10%	125V	* CN1200	1-564-510-11	PLUG, CONNECTOR 7P			
△ C1104	1-112-868-11	CERAMIC	330PF	10%	125V	CNP1100	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P			
△ C1107	1-165-529-11	MYLAR	0.22uF	10	275V						
△ C1109	1-112-867-11	CERAMIC	220PF	10%	125V			< DIODE >			
						△ D1100	8-719-082-57	DIODE D5SBA60F01			
△ C1110	1-112-867-11	CERAMIC	220PF	10%	125V	△ D1101	6-501-496-01	DIODE R4KLB-LF015-303 (EXCEPT MX, TH)			
△ C1112	1-112-529-11	ELECT (BLOCK)	390uF	20%	450V	△ D1101	8-719-068-00	DIODE ERC04-06SE (MX)			
						△ D1102	6-501-496-01	DIODE R4KLB-LF015-303 (EXCEPT MX, TH)			
△ C1112	1-114-206-11	ELECT (BLOCK)	680uF	20%	220V	△ D1102	8-719-068-00	DIODE ERC04-06SE (MX)			
△ C1113	1-114-206-11	ELECT (BLOCK)	680uF	20%	220V	△ D1103	6-500-241-01	DIODE SARS03			
						△ D1106	8-719-030-33	DIODE EG01CV1			
△ C1115	1-112-867-11	CERAMIC	220PF	10%	125V	△ D1107	8-719-947-79	DIODE MTZJ-T-72-22D			
						△ D1108	8-719-947-79	DIODE MTZJ-T-72-22D			
C1116	1-117-370-11	CERAMIC CHIP	10uF		10V	△ D1109	8-719-947-79	DIODE MTZJ-T-72-22D			
△ C1117	1-112-335-91	FILM	0.0033uF	5%	400V						
△ C1118	1-136-203-11	MYLAR	820PF	3%	1.5KV	△ D1110	8-719-063-74	DIODE D1NL20U-TR2			
△ C1119	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	△ D1111	8-719-083-52	DIODE UdzSTE-1716B			
△ C1120	1-162-925-11	CERAMIC CHIP	68PF	5%	50V	△ D1112	8-719-063-74	DIODE D1NL20U-TR2			
						D1113	6-501-398-01	DIODE FCH20A20			
△ C1121	1-126-949-11	ELECT	220uF	20%	35V	D1114	6-501-411-01	DIODE SF20NC15M			
△ C1122	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V						
C1123	1-136-203-11	MYLAR	0.01uF	5%	630V	D1115	8-719-069-54	DIODE UdzSTE-175.1B			
C1124	1-100-623-91	CERAMIC CHIP	0.1uF	10%	100V	D1116	8-719-080-53	DIODE RK36LF-B3			
C1125	1-165-761-21	ELECT	1200uF	20%	63V	D1117	8-719-947-79	DIODE MTZJ-T-72-22D			
						△ D1118	6-500-593-41	DIODE 10EDB60-TA2B5			
C1126	1-165-761-21	ELECT	1200uF	20%	63V	△ D1119	8-719-063-74	DIODE D1NL20U-TR2			
C1127	1-165-744-11	ELECT	1200uF	20%	35V						
C1129	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	D1120	8-719-069-54	DIODE UdzSTE-175.1B			
C1130	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	△ D1122	8-719-071-94	DIODE HRU0103ATRF			
C1131	1-164-362-11	CERAMIC CHIP	470PF	5%	50V	△ D1200	6-500-849-01	DIODE ERA22-08KFLB			
						△ D1202	8-719-063-74	DIODE D1NL20U-TR2			
C1134	1-131-976-11	ELECT	820uF	20%	25V	△ D1203	8-719-947-79	DIODE MTZJ-T-72-22D			
C1135	1-128-555-11	ELECT	470uF	20%	63V						
C1136	1-128-555-11	ELECT	470uF	20%	63V	△ D1204	8-719-063-74	DIODE D1NL20U-TR2			
C1137	1-100-623-91	CERAMIC CHIP	0.1uF	10%	100V	△ D1205	8-719-947-79	DIODE MTZJ-T-72-22D			
C1138	1-126-935-11	ELECT	470uF	20%	16V	△ D1206	8-719-947-79	DIODE MTZJ-T-72-22D			
						△ D1207	8-719-063-74	DIODE D1NL20U-TR2			
C1139	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	△ D1208	8-719-083-61	DIODE UdzSTE-1711B			
C1140	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V						
C1147	1-128-551-11	ELECT	22uF	20%	63V	△ D1211	8-719-063-74	DIODE D1NL20U-TR2			
C1148	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V	D1212	6-501-412-01	DIODE SF5S6			
△ C1149	1-104-663-11	ELECT	33uF	20%	25V	D1213	8-719-080-53	DIODE RK36LF-B3			
						△ D1214	8-719-921-40	DIODE MTZJ-4.7C			
△ C1200	1-165-136-11	CERAMIC	3300PF	10%	500V	D1215	8-719-947-79	DIODE MTZJ-T-72-22D			
△ C1202	1-107-444-11	CERAMIC	100PF	5%	2KV						
△ C1203	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V			< EARTH TERMINAL >			
△ C1206	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	* EP1100	1-537-738-21	TERMINAL, EARTH			
△ C1207	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	* EP1101	1-537-738-21	TERMINAL, EARTH			
						* EP1102	1-537-738-21	TERMINAL, EARTH			
△ C1208	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V	* EP1103	1-537-738-21	TERMINAL, EARTH			
△ C1209	1-104-665-11	ELECT	100uF	20%	25V	* EP1104	1-537-738-21	TERMINAL, EARTH			
△ C1210	1-126-965-11	ELECT	22uF	20%	50V						
△ C1212	1-112-867-11	CERAMIC	220PF	10%	125V	* EP1105	1-537-738-21	TERMINAL, EARTH			
C1213	1-135-372-11	ELECT	470uF	20%	10V	* EP1106	1-537-738-21	TERMINAL, EARTH			
						* EP1200	1-537-738-21	TERMINAL, EARTH			
C1214	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V						
C1216	1-128-951-21	ELECT	2200uF	20%	16V						

HCD-GN999D

POWER

Ref. No.	Part No.	Description	Remarks			
< IC >						
△ IC1100	6-709-168-01	IC MR5060				
IC1101	6-707-743-01	IC TA76L431S (TPE6, Q)				
IC1102	6-701-021-01	IC SI-8120JF				
△ IC1200	6-707-962-01	IC MR1722				
IC1201	6-707-743-01	IC TA76L431S (TPE6, Q)				
< JUMPER RESISTOR >						
JR1101	1-216-864-11	SHORT CHIP	0			
JR1103	1-216-864-11	SHORT CHIP	0			
JR1105	1-216-864-11	SHORT CHIP	0			
JR1106	1-216-296-11	SHORT CHIP	0			
JR1107	1-216-296-11	SHORT CHIP	0			
△ JR1108	1-216-296-11	SHORT CHIP	0			
< COIL >						
L1100	1-457-058-21	INDUCTOR	10.8uH			
L1102	1-456-545-11	INDUCTOR	100uH			
L1200	1-410-470-11	INDUCTOR	10uH			
L1201	1-456-545-11	INDUCTOR	100uH			
< LINE FILTER >						
△ LF1100	1-457-268-11	LINE FILTER COIL (EA)				
△ LF1101	1-457-268-11	LINE FILTER COIL				
< PHOTO COUPLER >						
△ PC1100	6-600-438-01	IC TLP421F (D4-GR)				
△ PC1101	6-600-438-01	IC TLP421F (D4-GR)				
△ PC1102	6-600-438-01	IC TLP421F (D4-GR)				
△ PC1200	6-600-438-01	IC TLP421F (D4-GR)				
< TRANSISTOR >						
Q1100	8-729-271-31	TRANSISTOR	2SC2713-G			
Q1101	8-729-271-31	TRANSISTOR	2SC2713-G			
△ Q1102	8-729-271-31	TRANSISTOR	2SC2713-G			
△ Q1200	8-729-271-31	TRANSISTOR	2SC2713-G			
Q1203	6-551-460-01	TRANSISTOR	RSR25P03TL			
Q1204	8-729-271-31	TRANSISTOR	2SC2713-G			
Q1205	8-729-271-31	TRANSISTOR	2SC2713-G			
Q1206	6-551-460-01	TRANSISTOR	RSR25P03TL			
< RESISTOR >						
△ R1103	1-220-886-11	FUSIBLE	0.1	10%	1W	
△ R1105	1-215-929-11	METAL OXIDE	100K	5%	3W	
△ R1106	1-215-929-11	METAL OXIDE	100K	5%	3W	
△ R1108	1-216-343-00	METAL OXIDE	0.33	5%	1W	
△ R1109	1-243-665-11	METAL	0.05	5%	5W	
△ R1110	1-216-835-11	METAL CHIP	15K	5%	1/10W	
△ R1111	1-216-838-11	METAL CHIP	27K	5%	1/10W	
△ R1112	1-216-841-11	METAL CHIP	47K	5%	1/10W	
△ R1113	1-249-389-11	CARBON	4.7	5%	1/4W	
△ R1114	1-216-837-11	METAL CHIP	22K	5%	1/10W	
△ R1115	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
△ R1116	1-216-864-11	SHORT CHIP	0			
R1117	1-218-859-11	METAL CHIP	3.3K	0.5%	1/10W	
R1118	1-246-097-31	METAL OXIDE	1	5%	2W	
△ R1120	1-219-769-11	METAL	3.3M	5%	1/2W	

Ref. No.	Part No.	Description	Remarks			
R1121	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	
R1122	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W	
R1123	1-218-861-11	METAL CHIP	3.9K	0.5%	1/10W	
R1124	1-218-889-11	METAL CHIP	56K	0.5%	1/10W	
R1126	1-216-864-11	SHORT CHIP	0			
R1127	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R1128	1-218-853-11	METAL CHIP	1.8K	0.5%	1/10W	
R1129	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	
R1130	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	
R1131	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R1132	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R1133	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R1135	1-216-864-11	SHORT CHIP	0			
R1136	1-216-864-11	SHORT CHIP	0			
△ R1137	1-247-895-00	CARBON	470K	5%	1/4W	
△ R1138	1-247-895-00	CARBON	470K	5%	1/4W	
R1139	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R1140	1-216-821-11	METAL CHIP	1K	5%	1/10W	
△ R1141	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	
△ R1142	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R1144	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R1145	1-216-809-11	METAL CHIP	100	5%	1/10W	
R1146	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	
△ R1200	1-215-904-61	METAL OXIDE	100K	5%	2W	
△ R1201	1-249-478-11	CARBON	2.2	5%	1/2W	
△ R1202	1-216-839-11	METAL CHIP	33K	5%	1/10W	
△ R1203	1-249-393-11	CARBON	10	5%	1/4W	
△ R1207	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
△ R1208	1-216-834-11	METAL CHIP	12K	5%	1/10W	
△ R1209	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
△ R1210	1-216-835-11	METAL CHIP	15K	5%	1/10W	
△ R1211	1-216-821-11	METAL CHIP	1K	5%	1/10W	
△ R1212	1-216-833-11	METAL CHIP	10K	5%	1/10W	
△ R1214	1-249-381-11	CARBON	1	5%	1/4W	
R1215	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R1216	1-216-813-11	METAL CHIP	220	5%	1/10W	
R1217	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R1218	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	
R1219	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W	
R1220	1-218-831-11	METAL CHIP	220	0.5%	1/10W	
R1221	1-218-861-11	METAL CHIP	3.9K	0.5%	1/10W	
R1223	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R1224	1-216-843-11	METAL CHIP	68K	5%	1/10W	
R1225	1-216-809-11	METAL CHIP	100	5%	1/10W	
R1226	1-216-857-11	METAL CHIP	1M	5%	1/10W	
R1227	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R1228	1-216-815-11	METAL CHIP	330	5%	1/10W	
R1229	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R1230	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R1232	1-216-833-11	METAL CHIP	10K	5%	1/10W	
△ R1233	1-216-833-11	METAL CHIP	10K	5%	1/10W	
△ R1234	1-216-841-11	METAL CHIP	47K	5%	1/10W	

< SWITCH >

△ SW1100	1-762-753-11	SWITCH, VOLTAGE SELECTION	(EXCEPT MX, TH)			
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POWER	SENSOR	SMASTER
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Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
< TRANSFORMER >				C549	1-135-632-51	ELECT	2200uF 20% 63V
△ T1100	1-443-893-11	CONVERTER TRANSFORMER		C551	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
△ T1200	1-443-895-11	CONVERTER TRANSFORMER		C552	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
< THERMISTOR >				C553	1-124-248-00	ELECT	22uF 20% 25V
△ TH1100	1-805-841-21	THERMISTOR, NTC 3.0		C554	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
< VARISTOR >				C555	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
△ VD1100	1-805-482-11	VARISTOR		C556	1-100-436-91	CERAMIC CHIP	0.033uF 10% 25V
*****				C557	1-100-623-91	CERAMIC CHIP	0.1uF 10% 100V
1-687-132-12 SENSOR BOARD				C558	1-114-119-31	ELECT	120uF 20% 63V
*****				C564	1-100-623-91	CERAMIC CHIP	0.1uF 10% 100V
< CONNECTOR >				C565	1-114-119-31	ELECT	120uF 20% 63V
CN731	1-785-329-21	PIN, CONNECTOR (LIGHT ANGLE) 3P		C567	1-100-436-91	CERAMIC CHIP	0.033uF 10% 25V
< IC >				C568	1-100-623-91	CERAMIC CHIP	0.1uF 10% 100V
IC731	6-600-022-01	IC RPI-576		C569	1-135-632-51	ELECT	2200uF 20% 63V
*****				C574	1-114-160-91	CERAMIC CHIP	1uF 10% 100V
A-1164-106-A SMASTER BOARD, COMPLETE				C575	1-114-160-91	CERAMIC CHIP	1uF 10% 100V
*****				C576	1-114-160-91	CERAMIC CHIP	1uF 10% 100V
< CAPACITOR >				C577	1-114-160-91	CERAMIC CHIP	1uF 10% 100V
C504	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	C578	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
C505	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	C579	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
C506	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	C580	1-135-618-11	MYLAR	1uF 5% 63V
C507	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	C581	1-125-898-91	CERAMIC CHIP	0.22uF 10% 50V
C508	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	C582	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V
C509	1-104-658-91	ELECT	100uF 20% 10V	C583	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V
C510	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	C584	1-135-618-11	MYLAR	1uF 5% 63V
C511	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	C585	1-125-898-91	CERAMIC CHIP	0.22uF 10% 50V
C512	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	C586	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V
C513	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	C587	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V
C520	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	C590	1-135-618-11	MYLAR	1uF 5% 63V
C521	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	C591	1-125-898-91	CERAMIC CHIP	0.22uF 10% 50V
C522	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	C592	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V
C523	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	C593	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V
C524	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	C594	1-135-618-11	MYLAR	1uF 5% 63V
C525	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	C595	1-125-898-91	CERAMIC CHIP	0.22uF 10% 50V
C526	1-162-962-11	CERAMIC CHIP	470PF 10% 50V	C596	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V
C527	1-162-962-11	CERAMIC CHIP	470PF 10% 50V	C597	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V
C528	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	C604	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C529	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	C605	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C531	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	C606	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C532	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	C607	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C533	1-104-662-91	ELECT	22uF 20% 25V	C608	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C534	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	C609	1-104-658-91	ELECT	100uF 20% 10V
C535	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	C610	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C536	1-100-436-91	CERAMIC CHIP	0.033uF 10% 25V	C611	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C537	1-100-623-91	CERAMIC CHIP	0.1uF 10% 100V	C612	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C538	1-114-119-31	ELECT	120uF 20% 63V	C613	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C544	1-100-623-91	CERAMIC CHIP	0.1uF 10% 100V	C620	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
C545	1-114-119-31	ELECT	120uF 20% 63V	C621	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
C547	1-100-436-91	CERAMIC CHIP	0.033uF 10% 25V	C622	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
C548	1-100-623-91	CERAMIC CHIP	0.1uF 10% 100V	C623	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
				C624	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
				C625	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
				C626	1-162-962-11	CERAMIC CHIP	470PF 10% 50V
				C628	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
				C629	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
				C631	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
				C632	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V

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Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
C633	1-104-662-91	ELECT	22uF	20%	25V	C720	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C634	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C721	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C635	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C722	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C636	1-100-436-91	CERAMIC CHIP	0.033uF	10%	25V	C723	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C637	1-100-623-91	CERAMIC CHIP	0.1uF	10%	100V	C724	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C638	1-114-119-31	ELECT	120uF	20%	63V	C725	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C644	1-100-623-91	CERAMIC CHIP	0.1uF	10%	100V	C726	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C645	1-114-119-31	ELECT	120uF	20%	63V	C727	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C647	1-100-436-91	CERAMIC CHIP	0.033uF	10%	25V	C728	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C648	1-100-623-91	CERAMIC CHIP	0.1uF	10%	100V	C729	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C649	1-135-632-11	ELECT	2200uF	20%	63V	C731	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C651	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C732	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C652	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C733	1-104-662-91	ELECT	22uF	20%	25V
C653	1-104-662-91	ELECT	22uF	20%	25V	C734	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C654	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C735	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C655	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C736	1-100-436-91	CERAMIC CHIP	0.033uF	10%	25V
C656	1-100-436-91	CERAMIC CHIP	0.033uF	10%	25V	C737	1-100-623-91	CERAMIC CHIP	0.1uF	10%	100V
C657	1-100-623-91	CERAMIC CHIP	0.1uF	10%	100V	C738	1-114-119-31	ELECT	120uF	20%	63V
C658	1-114-119-31	ELECT	120uF	20%	63V	C744	1-100-623-91	CERAMIC CHIP	0.1uF	10%	100V
C664	1-100-623-91	CERAMIC CHIP	0.1uF	10%	100V	C745	1-114-119-31	ELECT	120uF	20%	63V
C665	1-114-119-31	ELECT	120uF	20%	63V	C747	1-100-436-91	CERAMIC CHIP	0.033uF	10%	25V
C667	1-100-436-91	CERAMIC CHIP	0.033uF	10%	25V	C748	1-100-623-91	CERAMIC CHIP	0.1uF	10%	100V
C668	1-100-623-91	CERAMIC CHIP	0.1uF	10%	100V	C749	1-135-632-11	ELECT	2200uF	20%	63V
C669	1-135-632-51	ELECT	2200uF	20%	63V	C751	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C674	1-114-160-91	CERAMIC CHIP	1uF	10%	100V	C752	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C675	1-114-160-91	CERAMIC CHIP	1uF	10%	100V	C753	1-104-662-91	ELECT	22uF	20%	25V
C676	1-114-160-91	CERAMIC CHIP	1uF	10%	100V	C754	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C677	1-114-160-91	CERAMIC CHIP	1uF	10%	100V	C755	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C678	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C756	1-100-436-91	CERAMIC CHIP	0.033uF	10%	25V
C679	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C757	1-100-623-91	CERAMIC CHIP	0.1uF	10%	100V
C680	1-135-618-11	MYLAR	1uF	5%	63V	C758	1-114-119-31	ELECT	120uF	20%	63V
C681	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V	C764	1-100-623-91	CERAMIC CHIP	0.1uF	10%	100V
C682	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	C765	1-114-119-31	ELECT	120uF	20%	63V
C683	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	C767	1-100-436-91	CERAMIC CHIP	0.033uF	10%	25V
C684	1-135-618-11	MYLAR	1uF	5%	63V	C768	1-100-623-91	CERAMIC CHIP	0.1uF	10%	100V
C685	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V	C769	1-135-632-11	ELECT	2200uF	20%	63V
C686	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	C774	1-114-160-91	CERAMIC CHIP	1uF	10%	100V
C687	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	C775	1-114-160-91	CERAMIC CHIP	1uF	10%	100V
C688	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	C776	1-114-160-91	CERAMIC CHIP	1uF	10%	100V
C690	1-135-618-11	MYLAR	1uF	5%	63V	C777	1-114-160-91	CERAMIC CHIP	1uF	10%	100V
C691	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V	C778	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C692	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	C779	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C693	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	C780	1-135-618-11	MYLAR	1uF	5%	63V
C694	1-135-618-11	MYLAR	1uF	5%	63V	C781	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C695	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V	C782	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C696	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	C783	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C697	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	C784	1-135-618-11	MYLAR	1uF	5%	63V
C704	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C785	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C705	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C786	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C706	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C787	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C707	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C790	1-135-618-11	MYLAR	1uF	5%	63V
C708	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C791	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C709	1-104-658-91	ELECT	100uF	20%	10V	C792	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C710	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C793	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C711	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C794	1-135-618-11	MYLAR	1uF	5%	63V
C712	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C795	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C713	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C796	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
						C797	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
C800	1-124-248-00	ELECT	22uF 20% 25V	D636	6-501-485-01	DIODE EC10UA20	
C801	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	D653	6-501-484-01	DIODE P6SMB62AT3	
C802	1-162-910-11	CERAMIC CHIP	5PF 0.25PF 50V	D654	6-501-484-01	DIODE P6SMB62AT3	
C803	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	D655	6-501-485-01	DIODE EC10UA20	
C804	1-162-915-11	CERAMIC CHIP	10PF 0.5PF 50V	D656	6-501-485-01	DIODE EC10UA20	
C805	1-104-658-91	ELECT	100uF 20% 10V	D733	6-501-484-01	DIODE P6SMB62AT3	
C806	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	D734	6-501-484-01	DIODE P6SMB62AT3	
C809	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	D735	6-501-485-01	DIODE EC10UA20	
C810	1-104-658-91	ELECT	100uF 20% 10V	D736	6-501-485-01	DIODE EC10UA20	
C811	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	D753	6-501-484-01	DIODE P6SMB62AT3	
C830	1-126-964-11	ELECT	10uF 20% 50V	D754	6-501-484-01	DIODE P6SMB62AT3	
C840	1-164-337-11	CERAMIC CHIP	2.2uF 16V	D755	6-501-485-01	DIODE EC10UA20	
C850	1-117-370-11	CERAMIC CHIP	10uF 10V	D756	6-501-485-01	DIODE EC10UA20	
C855	1-117-370-11	CERAMIC CHIP	10uF 10V	D820	8-719-988-61	DIODE 1SS355TE-17	
C860	1-117-370-11	CERAMIC CHIP	10uF 10V	D880	1-216-295-91	SHORT CHIP 0	
C865	1-117-370-11	CERAMIC CHIP	10uF 10V	D881	1-216-295-91	SHORT CHIP 0	
C870	1-117-370-11	CERAMIC CHIP	10uF 10V	D882	1-216-295-91	SHORT CHIP 0	
C871	1-216-864-11	SHORT CHIP	0	D883	1-216-295-91	SHORT CHIP 0	
C872	1-216-864-11	SHORT CHIP	0	D884	1-216-295-91	SHORT CHIP 0	
C873	1-216-864-11	SHORT CHIP	0	D885	1-216-295-91	SHORT CHIP 0	
C875	1-117-370-11	CERAMIC CHIP	10uF 10V	D888	1-216-295-91	SHORT CHIP 0	
C876	1-216-864-11	SHORT CHIP	0	D889	1-216-295-91	SHORT CHIP 0	
C877	1-216-864-11	SHORT CHIP	0	D890	1-216-295-91	SHORT CHIP 0	
C878	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	D891	1-216-295-91	SHORT CHIP 0	
C879	1-216-864-11	SHORT CHIP	0	D892	8-719-988-61	DIODE 1SS355TE-17	
C880	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	D893	8-719-988-61	DIODE 1SS355TE-17	
C881	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	D895	1-216-295-91	SHORT CHIP 0	
C882	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	D896	1-216-295-91	SHORT CHIP 0	
C883	1-126-925-91	ELECT	470uF 20% 10V	< EARTH TERMINAL >			
C884	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	EP880	1-537-738-21	TERMINAL, GROUND	
C885	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	EP881	1-537-738-21	TERMINAL, GROUND	
C886	1-126-935-11	ELECT	470uF 20% 16V	EP882	1-537-738-21	TERMINAL, GROUND	
C887	1-126-925-91	ELECT	470uF 20% 10V	EP884	1-537-738-21	TERMINAL, GROUND	
C888	1-119-774-11	ELECT	100uF 20% 16V	EP885	1-537-738-21	TERMINAL, GROUND	
C889	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	EP886	1-537-738-21	TERMINAL, GROUND	
C890	1-119-774-11	ELECT	100uF 20% 16V	< FERRITE BEAD >			
C891	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	FB800	1-216-864-11	SHORT CHIP 0	
C892	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	FB801	1-216-864-11	SHORT CHIP 0	
< CONNECTOR >				FB881	1-216-295-91	SHORT CHIP 0	
CN500	1-784-780-11	CONNECTOR, FFC 19P		< FLUORESCENT INDICATOR >			
* CN501	1-564-714-11	PIN, CONNECTOR (SMALL TYPE) 12P		FL800	1-234-177-21	FILTER, CHIP EMI	
* CN502	1-564-243-11	PIN, CONNECTOR (3.96mm PITCH) 6P		FL801	1-234-177-21	FILTER, CHIP EMI	
CN503	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P		FL810	1-234-177-21	FILTER, CHIP EMI	
< DIODE >				< IC >			
D533	6-501-484-01	DIODE P6SMB62AT3		IC500	6-707-939-01	IC CXD9843AR	
D534	6-501-484-01	DIODE P6SMB62AT3		IC530	6-709-088-01	IC CXD9878M	
D535	6-501-485-01	DIODE EC10UA20		IC550	6-709-088-01	IC CXD9878M	
D536	6-501-485-01	DIODE EC10UA20		IC600	6-707-939-01	IC CXD9843AR	
D553	6-501-484-01	DIODE P6SMB62AT3		IC630	6-709-088-01	IC CXD9878M	
D554	6-501-484-01	DIODE P6SMB62AT3		IC650	6-709-088-01	IC CXD9878M	
D555	6-501-485-01	DIODE EC10UA20		IC700	6-707-939-01	IC CXD9843AR	
D556	6-501-485-01	DIODE EC10UA20		IC730	6-709-088-01	IC CXD9878M	
D633	6-501-484-01	DIODE P6SMB62AT3		IC750	6-709-088-01	IC CXD9878M	
D634	6-501-484-01	DIODE P6SMB62AT3		IC800	6-701-189-01	IC MC74VHC1GU04DFT1	
D635	6-501-485-01	DIODE EC10UA20					

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Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
IC802	6-701-189-01	IC MC74VHC1GU04DFT1		R530	1-216-797-11	METAL CHIP	10 5% 1/10W
IC810	6-700-263-01	IC NJM2870F18 (TE2)		R531	1-216-809-11	METAL CHIP	100 5% 1/10W
IC880	8-759-422-21	IC NJM4580V (TE2)		R532	1-216-809-11	METAL CHIP	100 5% 1/10W
		< COIL >		R533	1-216-809-11	METAL CHIP	100 5% 1/10W
L580	1-457-237-11	INDUCTOR	10uH	R535	1-216-839-11	METAL CHIP	33K 5% 1/10W
L581	1-457-237-11	INDUCTOR	10uH	R541	1-216-797-11	METAL CHIP	10 5% 1/10W
L590	1-457-237-11	INDUCTOR	10uH	R542	1-216-797-11	METAL CHIP	10 5% 1/10W
L591	1-457-237-11	INDUCTOR	10uH	R547	1-219-107-91	RES-CHIP	1.5 5% 1/8W
L680	1-457-237-11	INDUCTOR	10uH	R548	1-219-107-91	RES-CHIP	1.5 5% 1/8W
L681	1-457-237-11	INDUCTOR	10uH	R549	1-216-791-11	METAL CHIP	3.3 5% 1/10W
L690	1-457-237-11	INDUCTOR	10uH	R550	1-216-797-11	METAL CHIP	10 5% 1/10W
L691	1-457-237-11	INDUCTOR	10uH	R551	1-216-809-11	METAL CHIP	100 5% 1/10W
L780	1-457-237-11	INDUCTOR	10uH	R552	1-216-809-11	METAL CHIP	100 5% 1/10W
L781	1-457-237-11	INDUCTOR	10uH	R553	1-216-809-11	METAL CHIP	100 5% 1/10W
L790	1-457-237-11	INDUCTOR	10uH	R555	1-216-839-11	METAL CHIP	33K 5% 1/10W
L791	1-457-237-11	INDUCTOR	10uH	R557	1-216-142-00	RES-CHIP	4.7 5% 1/8W
L800	1-216-295-91	SHORT CHIP	0	R558	1-216-142-00	RES-CHIP	4.7 5% 1/8W
L801	1-412-939-11	INDUCTOR	1uH	R559	1-216-142-00	RES-CHIP	4.7 5% 1/8W
L802	1-216-295-91	SHORT CHIP	0	R560	1-216-142-00	RES-CHIP	4.7 5% 1/8W
		< TRANSISTOR >		R561	1-216-797-11	METAL CHIP	10 5% 1/10W
Q840	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R562	1-216-797-11	METAL CHIP	10 5% 1/10W
Q850	8-729-602-36	TRANSISTOR	2SA1602-F	R567	1-219-107-91	RES-CHIP	1.5 5% 1/8W
Q851	8-729-602-36	TRANSISTOR	2SA1602-F	R568	1-219-107-91	RES-CHIP	1.5 5% 1/8W
Q855	8-729-602-36	TRANSISTOR	2SA1602-F	R569	1-216-791-11	METAL CHIP	3.3 5% 1/10W
Q856	8-729-602-36	TRANSISTOR	2SA1602-F				
Q860	8-729-602-36	TRANSISTOR	2SA1602-F	R581	1-216-790-11	METAL CHIP	2.7 5% 1/10W
Q861	8-729-602-36	TRANSISTOR	2SA1602-F	R583	1-216-790-11	METAL CHIP	2.7 5% 1/10W
Q865	8-729-602-36	TRANSISTOR	2SA1602-F	R591	1-216-790-11	METAL CHIP	2.7 5% 1/10W
Q866	8-729-602-36	TRANSISTOR	2SA1602-F	R593	1-216-790-11	METAL CHIP	2.7 5% 1/10W
Q870	8-729-602-36	TRANSISTOR	2SA1602-F	R600	1-216-864-11	SHORT CHIP	0
Q871	8-729-602-36	TRANSISTOR	2SA1602-F	R601	1-216-864-11	SHORT CHIP	0
Q875	8-729-602-36	TRANSISTOR	2SA1602-F	R602	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q876	8-729-602-36	TRANSISTOR	2SA1602-F	R603	1-216-809-11	METAL CHIP	100 5% 1/10W
		< RESISTOR >		R605	1-216-817-11	METAL CHIP	470 5% 1/10W
R500	1-216-864-11	SHORT CHIP	0	R606	1-216-817-11	METAL CHIP	470 5% 1/10W
R501	1-216-864-11	SHORT CHIP	0	R607	1-216-817-11	METAL CHIP	470 5% 1/10W
R502	1-216-833-11	METAL CHIP	10K 5% 1/10W	R609	1-216-864-11	SHORT CHIP	0
R503	1-216-809-11	METAL CHIP	100 5% 1/10W	R610	1-216-864-11	SHORT CHIP	0
R505	1-216-817-11	METAL CHIP	470 5% 1/10W	R612	1-216-833-11	METAL CHIP	10K 5% 1/10W
R506	1-216-817-11	METAL CHIP	470 5% 1/10W	R615	1-216-864-11	SHORT CHIP	0
R507	1-216-817-11	METAL CHIP	470 5% 1/10W	R616	1-216-809-11	METAL CHIP	100 5% 1/10W
R509	1-216-864-11	SHORT CHIP	0	R617	1-216-809-11	METAL CHIP	100 5% 1/10W
R510	1-216-864-11	SHORT CHIP	0	R619	1-216-821-11	METAL CHIP	1K 5% 1/10W
R511	1-216-864-11	SHORT CHIP	0	R620	1-216-821-11	METAL CHIP	1K 5% 1/10W
R512	1-216-833-11	METAL CHIP	10K 5% 1/10W	R621	1-216-821-11	METAL CHIP	1K 5% 1/10W
R515	1-216-864-11	SHORT CHIP	0	R623	1-216-864-11	SHORT CHIP	0
R516	1-216-809-11	METAL CHIP	100 5% 1/10W	R624	1-216-864-11	SHORT CHIP	0
R517	1-216-809-11	METAL CHIP	100 5% 1/10W	R626	1-216-864-11	SHORT CHIP	0
R519	1-216-821-11	METAL CHIP	1K 5% 1/10W	R629	1-216-864-11	SHORT CHIP	0
R520	1-216-821-11	METAL CHIP	1K 5% 1/10W	R630	1-216-797-11	METAL CHIP	10 5% 1/10W
R521	1-216-821-11	METAL CHIP	1K 5% 1/10W	R631	1-216-809-11	METAL CHIP	100 5% 1/10W
R523	1-216-864-11	SHORT CHIP	0	R632	1-216-809-11	METAL CHIP	100 5% 1/10W
R524	1-216-864-11	SHORT CHIP	0	R633	1-216-809-11	METAL CHIP	100 5% 1/10W
R526	1-216-864-11	SHORT CHIP	0	R635	1-216-841-11	METAL CHIP	47K 5% 1/10W
R529	1-216-864-11	SHORT CHIP	0	R641	1-216-797-11	METAL CHIP	10 5% 1/10W
				R642	1-216-797-11	METAL CHIP	10 5% 1/10W
				R647	1-219-107-91	RES-CHIP	1.5 5% 1/8W
				R648	1-219-107-91	RES-CHIP	1.5 5% 1/8W
				R649	1-216-791-11	METAL CHIP	3.3 5% 1/10W

Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description			Remarks
R650	1-216-797-11	METAL CHIP	10	5%	1/10W	R762	1-216-797-11	METAL CHIP	10	5%	1/10W
R651	1-216-809-11	METAL CHIP	100	5%	1/10W	R767	1-219-107-91	RES-CHIP	1.5	5%	1/8W
R652	1-216-809-11	METAL CHIP	100	5%	1/10W	R768	1-219-107-91	RES-CHIP	1.5	5%	1/8W
R653	1-216-809-11	METAL CHIP	100	5%	1/10W	R769	1-216-791-11	METAL CHIP	3.3	5%	1/10W
R655	1-216-839-11	METAL CHIP	33K	5%	1/10W	R781	1-216-790-11	METAL CHIP	2.7	5%	1/10W
R657	1-216-142-00	RES-CHIP	4.7	5%	1/8W	R783	1-216-790-11	METAL CHIP	2.7	5%	1/10W
R658	1-216-142-00	RES-CHIP	4.7	5%	1/8W	R791	1-216-790-11	METAL CHIP	2.7	5%	1/10W
R659	1-216-142-00	RES-CHIP	4.7	5%	1/8W	R797	1-216-790-11	METAL CHIP	2.7	5%	1/10W
R660	1-216-142-00	RES-CHIP	4.7	5%	1/8W	R800	1-216-857-11	METAL CHIP	1M	5%	1/10W
R661	1-216-797-11	METAL CHIP	10	5%	1/10W	R801	1-216-809-11	METAL CHIP	100	5%	1/10W
R662	1-216-797-11	METAL CHIP	10	5%	1/10W	R802	1-216-864-11	SHORT CHIP	0		
R667	1-219-107-91	RES-CHIP	1.5	5%	1/8W	R803	1-216-864-11	SHORT CHIP	0		
R668	1-219-107-91	RES-CHIP	1.5	5%	1/8W	R804	1-216-864-11	SHORT CHIP	0		
R669	1-216-791-11	METAL CHIP	3.3	5%	1/10W	R805	1-216-864-11	SHORT CHIP	0		
R681	1-216-790-11	METAL CHIP	2.7	5%	1/10W	R806	1-216-864-11	SHORT CHIP	0		
R683	1-216-790-11	METAL CHIP	2.7	5%	1/10W	R807	1-216-864-11	SHORT CHIP	0		
R691	1-216-790-11	METAL CHIP	2.7	5%	1/10W	R809	1-216-806-11	METAL CHIP	56	5%	1/10W
R693	1-216-790-11	METAL CHIP	2.7	5%	1/10W	R811	1-216-845-11	METAL CHIP	100K	5%	1/10W
R700	1-216-864-11	SHORT CHIP	0			R820	1-216-837-11	METAL CHIP	22K	5%	1/10W
R701	1-216-864-11	SHORT CHIP	0			R821	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R702	1-216-833-11	METAL CHIP	10K	5%	1/10W	R822	1-216-837-11	METAL CHIP	22K	5%	1/10W
R703	1-216-809-11	METAL CHIP	100	5%	1/10W	R823	1-216-837-11	METAL CHIP	22K	5%	1/10W
R705	1-216-817-11	METAL CHIP	470	5%	1/10W	R840	1-216-845-11	METAL CHIP	100K	5%	1/10W
R706	1-216-817-11	METAL CHIP	470	5%	1/10W	R841	1-216-864-11	SHORT CHIP	0		
R707	1-216-817-11	METAL CHIP	470	5%	1/10W	R850	1-216-845-11	METAL CHIP	100K	5%	1/10W
R709	1-216-864-11	SHORT CHIP	0			R851	1-216-845-11	METAL CHIP	100K	5%	1/10W
R710	1-216-864-11	SHORT CHIP	0			R852	1-216-845-11	METAL CHIP	100K	5%	1/10W
R712	1-216-833-11	METAL CHIP	10K	5%	1/10W	R855	1-216-845-11	METAL CHIP	100K	5%	1/10W
R716	1-216-809-11	METAL CHIP	100	5%	1/10W	R856	1-216-845-11	METAL CHIP	100K	5%	1/10W
R717	1-216-809-11	METAL CHIP	100	5%	1/10W	R857	1-216-845-11	METAL CHIP	100K	5%	1/10W
R719	1-216-821-11	METAL CHIP	1K	5%	1/10W	R858	1-216-841-11	METAL CHIP	47K	5%	1/10W
R720	1-216-821-11	METAL CHIP	1K	5%	1/10W	R859	1-216-841-11	METAL CHIP	47K	5%	1/10W
R721	1-216-821-11	METAL CHIP	1K	5%	1/10W	R860	1-216-845-11	METAL CHIP	100K	5%	1/10W
R723	1-216-864-11	SHORT CHIP	0			R861	1-216-845-11	METAL CHIP	100K	5%	1/10W
R724	1-216-864-11	SHORT CHIP	0			R862	1-216-845-11	METAL CHIP	100K	5%	1/10W
R726	1-216-864-11	SHORT CHIP	0			R865	1-216-845-11	METAL CHIP	100K	5%	1/10W
R729	1-216-864-11	SHORT CHIP	0			R866	1-216-845-11	METAL CHIP	100K	5%	1/10W
R730	1-216-797-11	METAL CHIP	10	5%	1/10W	R867	1-216-845-11	METAL CHIP	100K	5%	1/10W
R731	1-216-809-11	METAL CHIP	100	5%	1/10W	R868	1-216-841-11	METAL CHIP	47K	5%	1/10W
R732	1-216-809-11	METAL CHIP	100	5%	1/10W	R869	1-216-841-11	METAL CHIP	47K	5%	1/10W
R733	1-216-809-11	METAL CHIP	100	5%	1/10W	R870	1-216-845-11	METAL CHIP	100K	5%	1/10W
R735	1-216-841-11	METAL CHIP	47K	5%	1/10W	R871	1-216-845-11	METAL CHIP	100K	5%	1/10W
R741	1-216-797-11	METAL CHIP	10	5%	1/10W	R872	1-216-845-11	METAL CHIP	100K	5%	1/10W
R742	1-216-797-11	METAL CHIP	10	5%	1/10W	R875	1-216-845-11	METAL CHIP	100K	5%	1/10W
R747	1-219-107-91	RES-CHIP	1.5	5%	1/8W	R876	1-216-845-11	METAL CHIP	100K	5%	1/10W
R748	1-219-107-91	RES-CHIP	1.5	5%	1/8W	R877	1-216-845-11	METAL CHIP	100K	5%	1/10W
R749	1-216-791-11	METAL CHIP	3.3	5%	1/10W	R878	1-216-841-11	METAL CHIP	47K	5%	1/10W
R750	1-216-797-11	METAL CHIP	10	5%	1/10W	R879	1-216-841-11	METAL CHIP	47K	5%	1/10W
R751	1-216-809-11	METAL CHIP	100	5%	1/10W	R880	1-216-837-11	METAL CHIP	22K	5%	1/10W
R752	1-216-809-11	METAL CHIP	100	5%	1/10W	R881	1-216-837-11	METAL CHIP	22K	5%	1/10W
R753	1-216-809-11	METAL CHIP	100	5%	1/10W	R882	1-216-837-11	METAL CHIP	22K	5%	1/10W
R755	1-216-841-11	METAL CHIP	47K	5%	1/10W	R883	1-216-837-11	METAL CHIP	22K	5%	1/10W
R757	1-216-142-00	RES-CHIP	4.7	5%	1/8W	R884	1-216-837-11	METAL CHIP	22K	5%	1/10W
R758	1-216-142-00	RES-CHIP	4.7	5%	1/8W	R885	1-216-839-11	METAL CHIP	33K	5%	1/10W
R759	1-216-142-00	RES-CHIP	4.7	5%	1/8W	R886	1-216-864-11	SHORT CHIP	0		
R760	1-216-142-00	RES-CHIP	4.7	5%	1/8W	R887	1-216-837-11	METAL CHIP	22K	5%	1/10W
R761	1-216-797-11	METAL CHIP	10	5%	1/10W	R888	1-216-837-11	METAL CHIP	22K	5%	1/10W
						R889	1-216-837-11	METAL CHIP	22K	5%	1/10W

HCD-GN999D

- SMASTER
- SPEAKER
- SW
- VIDEO

Ref. No.	Part No.	Description	Remarks		
R890	1-216-837-11	METAL CHIP	22K	5%	1/10W
R891	1-216-839-11	METAL CHIP	33K	5%	1/10W
R892	1-216-864-11	SHORT CHIP	0		
R893	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R894	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R895	1-216-837-11	METAL CHIP	22K	5%	1/10W
< VIBRATOR >					
X800	1-795-660-21	QUARTZ CRYSTAL UNIT (49.152MHz)			

SPEAKER BOARD					

< CAPACITOR >					
C1502	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1512	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1522	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1532	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1602	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1612	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1622	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1632	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1702	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1712	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1722	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1732	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
< CONNECTOR >					
* CN1500	1-564-241-11	PIN, CONNECTOR (3.96mm PITCH) 4P			
* CN1600	1-564-241-11	PIN, CONNECTOR (3.96mm PITCH) 4P			
CN1700	1-564-507-11	PLUG, CONNECTOR 4P			
< EARTH TERMINAL >					
* EP1500	1-537-738-21	TERMINAL, EARTH			
* EP1501	1-537-738-21	TERMINAL, EARTH			
< TERMINAL >					
TM1500	1-820-068-11	TERMINAL BOARD (SPEAKER)			

	1-687-669-12	SW BOARD			

< SWITCH >					
S751	1-786-514-11	SWITCH, LEVER (SLIDE) (OPEN)			

A-1164-027-A	VIDEO BOARD, COMPLETE				

	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3			
< CAPACITOR >					
C1850	1-126-916-11	ELECT	1000uF	20%	6.3V
C1853	1-126-960-11	ELECT	1uF	20%	50V
C1854	1-126-960-11	ELECT	1uF	20%	50V
C1855	1-126-960-11	ELECT	1uF	20%	50V
C1856	1-126-965-91	ELECT	22uF	20%	50V

C1857	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1858	1-126-960-11	ELECT	1uF	20%	50V
C1859	1-126-960-11	ELECT	1uF	20%	50V
C1860	1-126-960-11	ELECT	1uF	20%	50V
C1861	1-104-658-91	ELECT	100uF	20%	10V
C1862	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1863	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1864	1-126-916-11	ELECT	1000uF	20%	6.3V
C1865	1-126-916-11	ELECT	1000uF	20%	6.3V
C1866	1-126-916-11	ELECT	1000uF	20%	6.3V
C1867	1-126-916-11	ELECT	1000uF	20%	6.3V
C1868	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C1869	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C1870	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C1871	1-216-864-11	SHORT CHIP	0		
C1872	1-216-864-11	SHORT CHIP	0		
C1873	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C1874	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C1875	1-216-864-11	SHORT CHIP	0		
C1876	1-216-864-11	SHORT CHIP	0		
C1882	1-126-960-11	ELECT	1uF	20%	50V
C1883	1-126-926-11	ELECT	1000uF	20%	10V
C1884	1-126-960-11	ELECT	1uF	20%	50V
C1885	1-126-916-11	ELECT	1000uF	20%	6.3V
C1886	1-126-960-11	ELECT	1uF	20%	50V
C1887	1-126-916-11	ELECT	1000uF	20%	6.3V
C1888	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C1889	1-104-658-91	ELECT	100uF	20%	10V
C1891	1-126-964-11	ELECT	10uF	20%	50V
C1892	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1893	1-126-964-11	ELECT	10uF	20%	50V
< CONNECTOR >					
CN1880	1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P			
CN1966	1-779-281-11	CONNECTOR, FFC (LIF (NON-ZIF)) 13P			
CN1967	1-785-314-11	PIN, CONNECTOR (STRAIGHT) 2P			
< DIODE >					
D1888	8-719-069-54	DIODE UDZSTE-175.1B			
< EARTH TERMINAL >					
EPT1970	1-537-738-21	TERMINAL, GROUND			
< FERRITE BEAD >					
FB1971	1-216-864-11	SHORT CHIP	0		
FB1972	1-216-864-11	SHORT CHIP	0		
FB1973	1-216-864-11	SHORT CHIP	0		
FB1974	1-216-864-11	SHORT CHIP	0		
FB1975	1-216-864-11	SHORT CHIP	0		
FB1976	1-216-864-11	SHORT CHIP	0		
FB1979	1-216-864-11	SHORT CHIP	0		
FB1980	1-216-864-11	SHORT CHIP	0		
< IC >					
IC1801	6-705-602-01	IC	MM1623BFBE		
IC1802	8-759-653-07	IC	PQ09RD21J00H		
IC1803	6-707-921-01	IC	PQ3RD13J000H		

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
IC1804	8-759-471-81	IC PQ05RD11J00H		< RESISTOR >			
IC1805	8-759-295-90	IC NJM2244M-TE2		R1329	1-216-823-11	METAL CHIP 1.5K 5% 1/10W	
< JACK >				R1333	1-216-821-11	METAL CHIP 1K 5% 1/10W	
J1900	1-793-483-11	PHONO JACK 3P (COMPONENT VIDEO)		R1334	1-216-823-11	METAL CHIP 1.5K 5% 1/10W	
J1902	1-817-785-11	PIN JACK BLOCK (VIDEO OUT/S VIDEO OUT)		R1335	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
< JUMPER RESISTOR >				R1336	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
JR1910	1-216-864-11	SHORT CHIP 0		R1337	1-216-833-11	METAL CHIP 10K 5% 1/10W	
JR1913	1-216-864-11	SHORT CHIP 0		R1362	1-216-821-11	METAL CHIP 1K 5% 1/10W	
< COIL >				R1363	1-216-821-11	METAL CHIP 1K 5% 1/10W	
L1888	1-414-183-41	INDUCTOR 10uH		R1364	1-216-821-11	METAL CHIP 1K 5% 1/10W	
L1950	1-414-183-41	INDUCTOR 10uH		R1365	1-216-821-11	METAL CHIP 1K 5% 1/10W	
< TRANSISTOR >				R1366	1-216-821-11	METAL CHIP 1K 5% 1/10W	
Q1970	8-729-027-43	TRANSISTOR DTC114EKA-T146		R1367	1-216-821-11	METAL CHIP 1K 5% 1/10W	
Q1971	8-729-027-43	TRANSISTOR DTC114EKA-T146		R1368	1-216-821-11	METAL CHIP 1K 5% 1/10W	
< RESISTOR >				R1369	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1888	1-216-815-11	METAL CHIP 330 5% 1/10W		R1370	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1889	1-216-815-11	METAL CHIP 330 5% 1/10W		R1371	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1929	1-216-809-11	METAL CHIP 100 5% 1/10W		R1372	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1930	1-216-809-11	METAL CHIP 100 5% 1/10W		R1373	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1931	1-218-285-11	METAL CHIP 75 5% 1/10W		R1374	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1932	1-218-285-11	METAL CHIP 75 5% 1/10W		R1375	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1933	1-218-285-11	METAL CHIP 75 5% 1/10W		R1376	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1934	1-218-285-11	METAL CHIP 75 5% 1/10W		R1377	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1935	1-216-864-11	SHORT CHIP 0		R1378	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1936	1-216-809-11	METAL CHIP 100 5% 1/10W		R1379	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1937	1-218-285-11	METAL CHIP 75 5% 1/10W		< SWITCH >			
R1938	1-216-833-11	METAL CHIP 10K 5% 1/10W		S1305	1-418-725-41	ENCODER, ROTARY (12 TYPE)	
R1939	1-216-857-11	METAL CHIP 1M 5% 1/10W				(MASTER VOLUME)	
R1940	1-216-833-11	METAL CHIP 10K 5% 1/10W		S1306	1-786-289-11	SWITCH, DETECTION (OPERATION DIAL)	
R1941	1-216-807-11	METAL CHIP 68 5% 1/10W		S1318	1-762-875-21	SWITCH, KEYBOARD (EQ BAND/MEMORY)	
R1942	1-216-845-11	METAL CHIP 100K 5% 1/10W		S1319	1-762-875-21	SWITCH, KEYBOARD (SOUND FIELD)	
R1947	1-216-833-11	METAL CHIP 10K 5% 1/10W		S1328	1-762-875-21	SWITCH, KEYBOARD (PRESET EQ)	
*****				S1331	1-762-875-21	SWITCH, KEYBOARD (GROOVE)	
*****				*****			
VOL BOARD				MISCELLANEOUS			
*****				*****			
< CAPACITOR >				△	1-770-019-61	ADAPTOR, CONVERSION PLUG (EA)	
C1334	1-164-360-11	CERAMIC CHIP 0.1uF 16V		△	1-569-088-22	ADAPTOR, CONVERSION 2P	
< DIODE >						(E2, E3, E15, E51, PH, SP, MY)	
D1307	6-500-809-01	DIODE SELU5223C-STP15 (LED 1)		7	1-693-702-11	TUNER (FM/AM) (TM10SE)	
D1308	6-500-809-01	DIODE SELU5223C-STP15 (LED 2)		8	1-828-589-11	WIRE (FLAT TYPE) (13 CORE) (130mm)	
D1309	6-500-809-01	DIODE SELU5223C-STP15 (LED 3)		9	1-828-624-11	WIRE (FLAT TYPE) (19 CORE)	
D1310	6-500-809-01	DIODE SELU5223C-STP15 (LED 4)		10	1-827-720-11	WIRE (FLAT TYPE) (11 CORE)	
D1311	6-500-809-01	DIODE SELU5223C-STP15 (LED 5)		11	1-829-030-11	WIRE (FLAT TYPE) (25 CORE)	
D1312	6-500-809-01	DIODE SELU5223C-STP15 (LED 6)		14	1-828-326-11	WIRE (FLAT TYPE) (13 CORE) (65mm)	
< JUMPER RESISTOR >				66	1-417-657-11	MECHA DECK (CWN42FR602)	
JR1300	1-216-864-11	SHORT CHIP 0		106	1-500-497-11	FILTER, CLAMP (FERRITE CORE)	
JR1301	1-216-864-11	SHORT CHIP 0		△108	1-777-071-23	CORD, POWER (EA)	
JR1302	1-216-864-11	SHORT CHIP 0		△108	1-824-818-11	CORD, POWER (WITH CONNECTOR) (TH)	
				△108	1-827-226-31	CORD, POWER (MX)	
				△108	1-830-188-11	CORD, POWER (EXCEPT EA, MX, TH)	
				152	1-776-182-11	WIRE (FLAT TYPE) (5 CORE)	
				△222	8-820-291-02	OPTICAL PICK-UP KHM-310CAB/C2RP	
				△F1100	1-532-506-33	FUSE (T6.3AL/250V)	
				M741	A-1108-965-A	MOTOR ASSY, TABLE	
				M751	A-1108-966-A	MOTOR ASSY, LOADING	

REVISION HISTORY

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Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

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