HCD-GNZ7D/GNZ8D/GNZ9D

SERVICE MANUAL

Ver. 1.1 2005. 12

E Model

HCD-GNZ7D/GNZ8D/GNZ9D

Australian Model

HCD-GNZ9D

(Photo: HCD-GNZ7D)

- HCD-GNZ7D/GNZ8D/GNZ9D are the tuner, deck, DVD and amplifier section in MHC-GNZ7D/GNZ8D/GNZ9D.

DVD Section	Model Name Using Similar Mechanism	NEW
	DVD Mechanism Type	CDM74HF-DVBU101//C
	Optical Pick-up Name	KHM-310CAB/C2NP
Tape Deck Section	Model Name Using Similar Machanism	NEW

SPECIFICATIONS

Amplifier section

HCD-GNZ9D

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

Continuous RMS power output (reference)

Front speaker: 115 + 115 watts (6 ohms at 1 kHz, 10% THD)

Center speaker: 50 watts (6 ohms at 1 kHz, 10% THD)

Surround speaker: 50 + 50 watts (6 ohms at 1 kHz, 10% THD)

Subwoofer: 170 watts (4 ohms at 100 Hz, 10% THD)

HCD-GNZ8D

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

Continuous RMS power output (reference)

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

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

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

HCD-GNZ7D

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

Continuous RMS power output (reference)

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

Inputs

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

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

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

MIC1/MIC2 (phone jack): sensitivity 1 mV, impedance 10 kilohms

Outputs

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

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

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

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

P_B, P_R: 0.7 Vp-p, 75 ohms

– Continued on next page –

DVD DECK RECEIVER

9-879-622-02
2005L04-1
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Sony Corporation
Home Audio Division
Published by Sony Engineering Corporation

SONY®

DIGITAL OPTICAL OUT (Square optical connector jack, rear panel) (HCD-GNZ7D only)
Wavelength 660 nm
PHONES (stereo mini jack):
accepts headphones of 8 ohms or more

Disc player section

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

Tape deck section

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

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

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

AM tuner section

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

General

Power requirements
Australian model: 230 – 240 V AC, 50/60 Hz
Saudi Arabian model: 120 – 127 V, 220 V or 230 – 240 V AC, 50/60 Hz Adjustable with voltage selector
Indian model: 220 – 240 V AC, 50/60 Hz
Mexican model: 127 V AC, 60 Hz
Thai model: 220 V AC, 50/60 Hz
Other models: 120 V, 220 V or 230 – 240 V AC, 50/60 Hz Adjustable with voltage selector

Power consumption
MHC-GNZ9D: 400 watts
MHC-GNZ8D: 280 watts
MHC-GNZ7D: 210 watts

Dimensions (w/h/d)
MHC-GNZ9D: Approx. 280 × 326 × 400 mm
MHC-GNZ8D/GNZ7D: Approx. 280 × 326 × 380 mm

Mass (excl. speakers)
HCD-GNZ9D: Approx. 14 kg
HCD-GNZ8D: Approx. 12 kg
HCD-GNZ7D: Approx. 11 kg

Design and specifications are subject to change without notice.

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.

Notes on Chip Component Replacement

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

Flexible Circuit Board Repairing

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

UNLEADED SOLDER

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

: LEAD FREE MARK

Unleaded solder has the following characteristics.

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

CAUTION

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

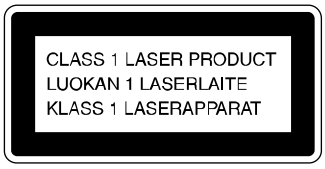
NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

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

NOTES ON LASER DIODE EMISSION CHECK

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

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



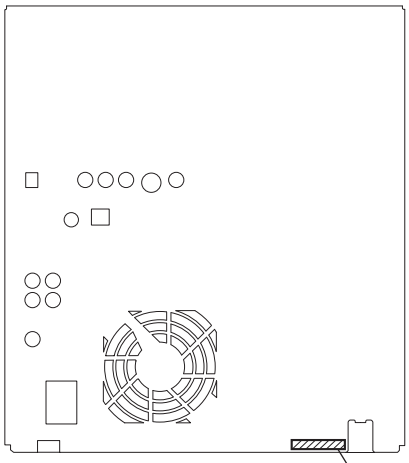
This appliance is claassified as a CLASS 1 LASER product. This label is located on the rear exterior.

Note on DMB10 board or DMB11 board replacement

New part of EEP ROM (IC103) on the DMB10 board or DMB11 board cannot be used. Therefore, if the mounted DMB10 board (A-1095-784-A, etc.) is replaced, exchange new EEP ROM (IC103) with that used before the replacement.

MODEL IDENTIFICATION

– BACK PANEL –



- Abbreviation
  E2 : 120 V AC area in E model
  E3 : 240 V AC area in E model
  E12 : 220-240 V AC area in E model
  E13 : 220-230 V AC area in E model
  E15 : Iran model
  E51 : Chilean and Peruvian model
  AUS : Australian model
  EA : Saudi arabia model
  PH : Philippine model
  SP : Singapore model
  MX : Mexican model
  TH : Thai model

MODEL	PARTS No.
GNZ9D: SP	2-582-750-0☐
GNZ9D: E3, E15	2-582-750-1☐
GNZ9D: E12, E13	2-582-750-2☐
GNZ9D: PH	2-582-750-3☐
GNZ9D: EA	2-582-750-4☐
GNZ9D: TH	2-582-750-5☐
GNZ9D: AUS	2-582-750-6☐
GNZ9D: E2	2-582-750-7☐
GNZ9D: E51	2-582-750-8☐
GNZ9D: MX	2-582-750-9☐
GNZ8D: SP	2-582-751-0☐
GNZ8D: E3, E15	2-582-751-1☐
GNZ8D: E12, E13	2-582-751-2☐
GNZ8D: PH	2-582-751-3☐
GNZ8D: EA	2-582-751-4☐
GNZ8D: TH	2-582-751-5☐
GNZ7D: SP	2-582-752-0☐
GNZ7D: E3, E15	2-582-752-1☐
GNZ7D: E12, E13	2-582-752-2☐
GNZ7D: PH	2-582-752-3☐
GNZ7D: EA	2-582-752-4☐
GNZ7D: TH	2-582-752-5☐
GNZ7D: E2	2-582-752-6☐

TABLE OF CONTENTS

1. SERVICE NOTE
1-1. Service Position of CDM 6
1-2. Service Position of DMB10 Board, Video Board 6
1-3. Service Position of TCM 7
1-4. Service Position of Front AMP Board 7
1-5. Service Position of Subwoofer Board 8

2. GENERAL
Main Unit 9
Remote Control 10

3. DISASSEMBLY
3-1. Case 12
3-2. Loading Panel Assy 12
3-3. Front Panel Section 13
3-4. DVD Block Section 13
3-5. Tape Mechanism Section 14
3-6. Panel Board 14
3-7. Jack Board 15
3-8. Back Panel Section 15
3-9. Boards Section 16
3-10. Audio Board (HCD-GNZ8D/GNZ9D) 16
3-11. Audio Board (HCD-GNZ7D) 17
3-12. Surround AMP Board (HCD-GNZ8D/GNZ9D), Subwoofer Board (HCD-GNZ9D) 17
3-13. DVD Mechanism Block, Video Board, DMB10 Board 18
3-14. Pick-up Unit 18
3-15. SW Board, Driver Board 19
3-16. Sensor Board 19
3-17. Motor (TB) Board 20
3-18. Motor (LD) Board 20

4. TEST MODE
4-1. General Description 22
4-2. Starting Test Mode 22
4-3. Drive Manual Operation 22
4-4. Mirror Time Adjustment 22
4-5. Executing IOP Measurement 24

5. MECHANICAL ADJUSTMENTS 25

6. ELECTRICAL ADJUSTMENTS 26

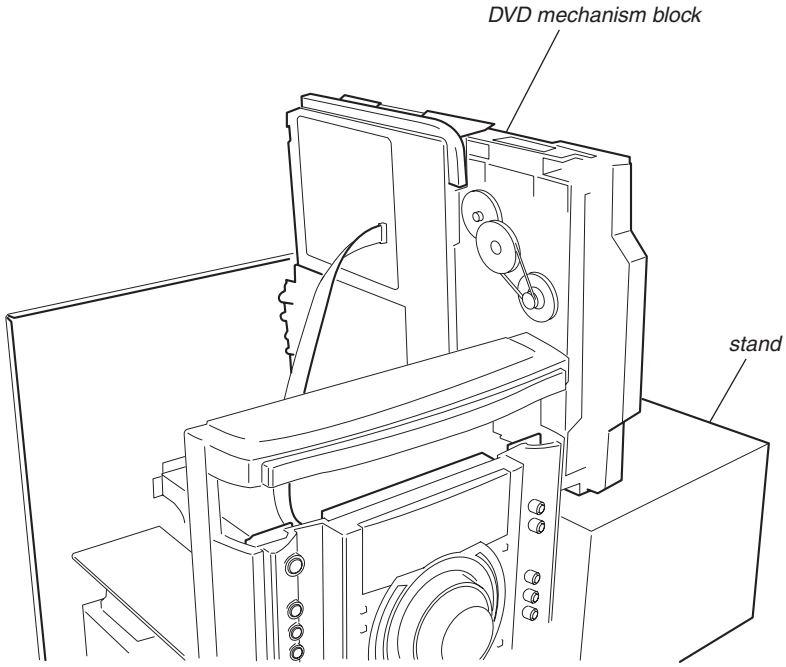
7. DIAGRAMS
7-1. Block Diagram — RF/Servo Section — 35
7-2. Block Diagram — Video Section — 36
7-3. Block Diagram — Audio Section — 37
7-4. Block Diagram — Main Section — 38
7-5. Block Diagram — Function/Power Section — 39
7-6. Printed Wiring Boards — Driver Section — 41
7-7. Schematic Diagram — Driver Section — 42
7-8. Printed Wiring Board — DMB10 Section (Side A) — 43
7-9. Printed Wiring Board — DMB10 Section (Side B) — 44
7-10. Schematic Diagram — DMB10 Section (1/4) — 45
7-11. Schematic Diagram — DMB10 Section (2/4) — 46
7-12. Schematic Diagram — DMB10 Section (3/4) — 47
7-13. Schematic Diagram — DMB10 Section (4/4) — 48
7-14. Printed Wiring Board — Audio Section — 49
7-15. Schematic Diagram — Audio Section (1/3) — 50
7-16. Schematic Diagram — Audio Section (2/3) — 51
7-17. Schematic Diagram — Audio Section (3/3) — 52
7-18. Printed Wiring Board — Video Section — 53
7-19. Schematic Diagram — Video Section — 54
7-20. Printed Wiring Board — Front AMP Section — 55
7-21. Schematic Diagram — Front AMP Section — 56
7-22. Printed Wiring Boards — Panel Section — 57
7-23. Schematic Diagram — Panel Section (1/2) — 58
7-24. Schematic Diagram — Panel Section (2/2) — 59
7-25. Printed Wiring Board — Jack Section — 60
7-26. Schematic Diagram — Jack Section — 61
7-27. Printed Wiring Board — Surround AMP Section — (HCD-GNZ8D/GNZ9D) 62
7-28. Schematic Diagram — Surround AMP Section — (HCD-GNZ8D/GNZ9D) 63
7-29. Printed Wiring Board — Subwoofer Section — (HCD-GNZ9D) 64
7-30. Schematic Diagram — Subwoofer Section — (HCD-GNZ9D) 65
7-31. Printed Wiring Board — Trans Section — 66
7-32. Printed Wiring Board — Sub Trans Section — 67
7-33. Schematic Diagram — Power Section — 68

8. EXPLODED VIEWS
8-1. Main Section 71
8-2. Front Panel Section (1) 72
8-3. Front Panel Section (2) 73
8-4. Front Panel Section (3) 74
8-5. DVD Block Section 75
8-6. Chassis Section 76
8-7. Audio Board Section 77
8-8. DVD Mechanism Deck Section (1) 78
8-9. DVD Mechanism Deck Section (2) 79

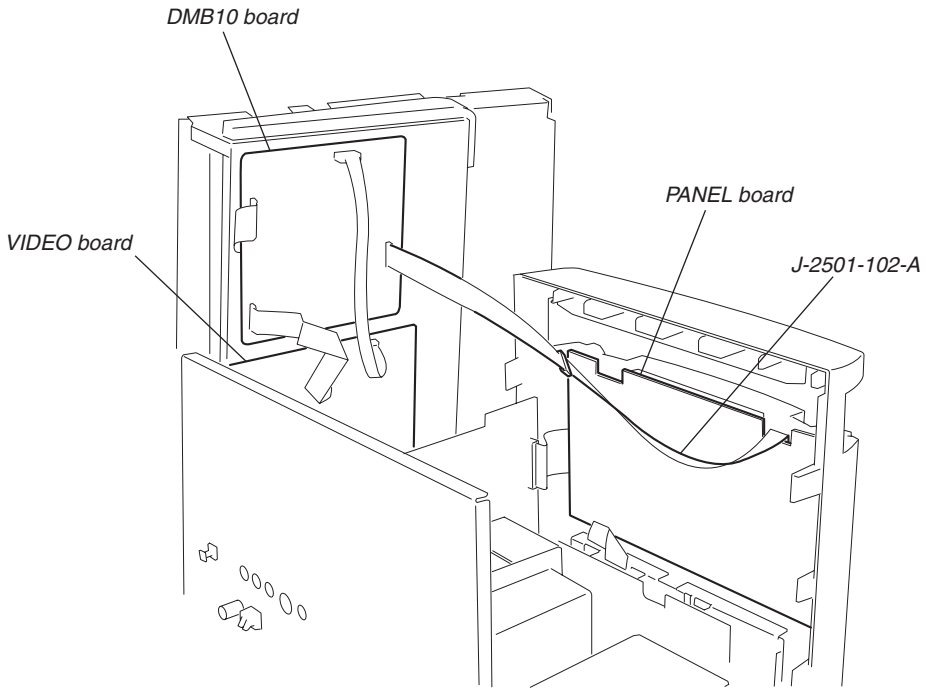
9. ELECTRICAL PARTS LIST 80

SECTION 1
SERVICE NOTE

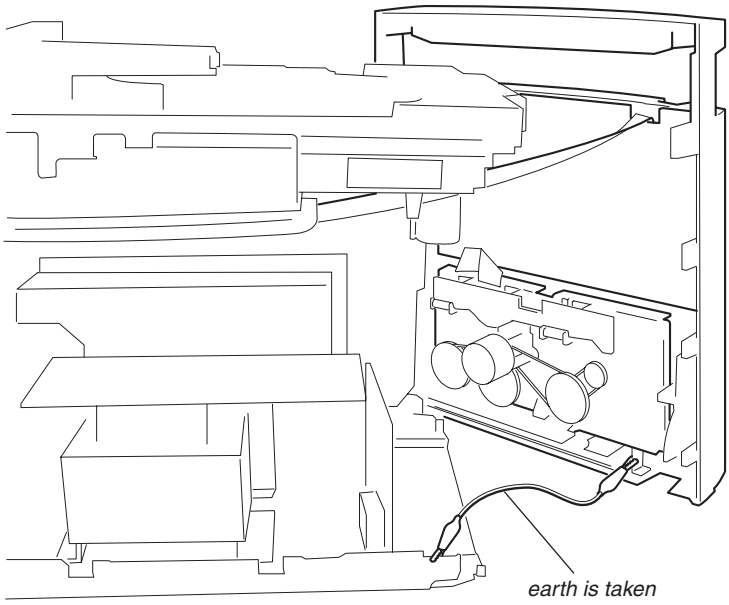
1-1. SERVICE POSITION OF CDM



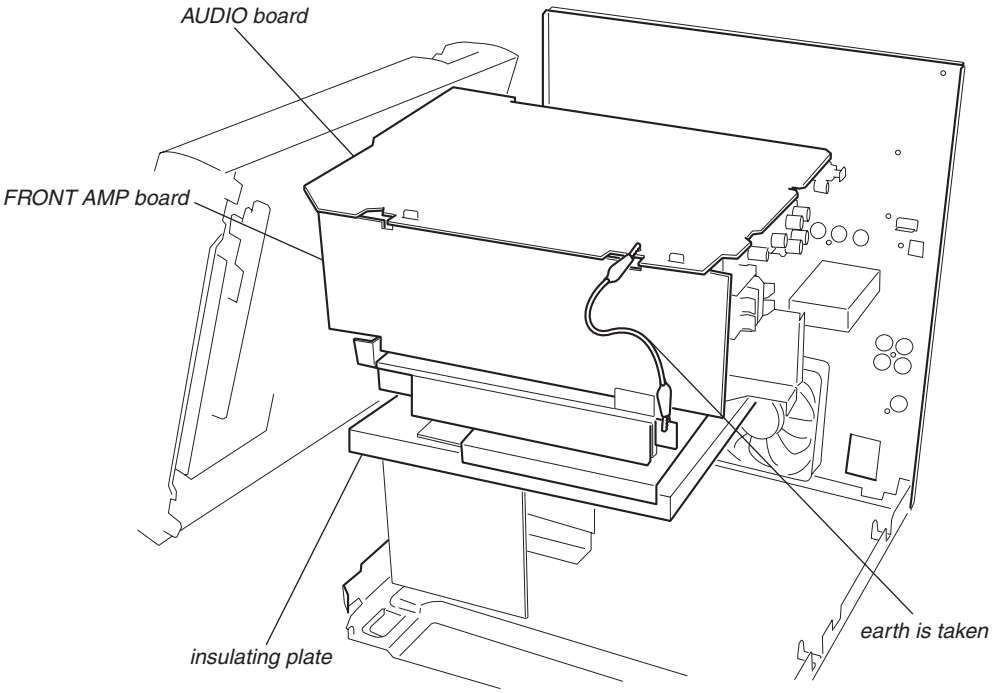
1-2. SERVICE POSITION OF DMB10 BOARD, VIDEO BOARD



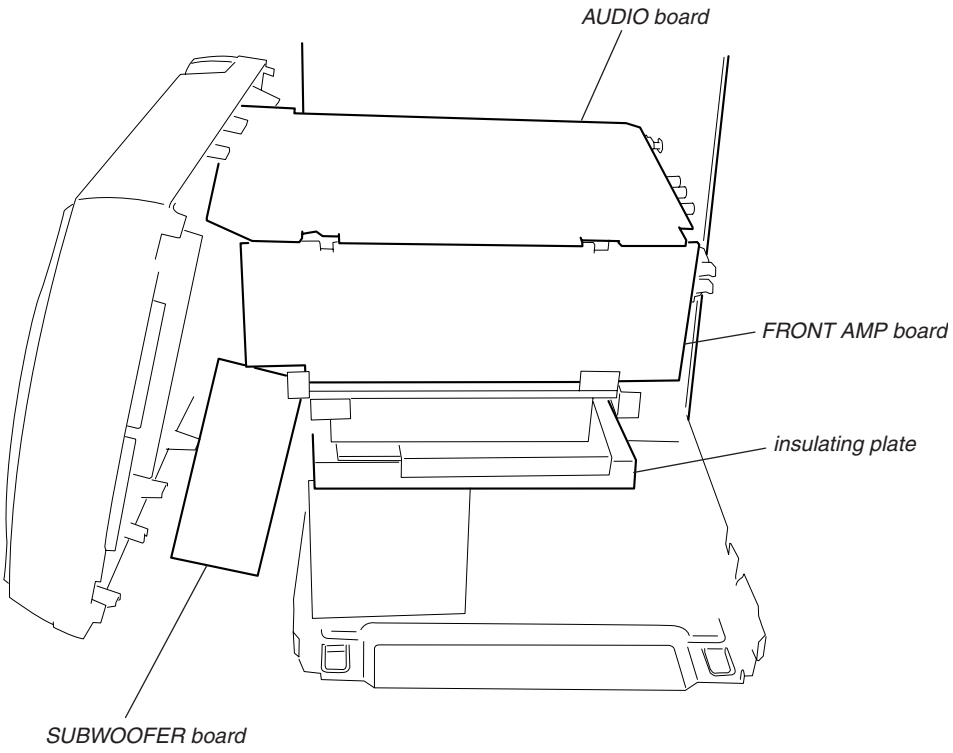
1-3. SERVICE POSITION OF TCM



1-4. SERVICE POSITION OF FRONT AMP BOARD



1-5. SERVICE POSITION OF SUBWOOFER BOARD



SECTION 2
GENERAL

This section is extracted from instruction manual.

List of button locations and reference pages

How to use this page

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

Illustration number
TAPE A/B 33 (52, 53, 54)
Name of button/part — Reference page

Main unit

ALPHABETICAL ORDER

A – Q

CD SYNC 28 (for MHC-GNZ9D/GNZ8D/GNZ7D)
30 (for MHC-GNZ5D) (53)
Deck A 26 (52, 54)
Deck B 15 (52, 53, 54, 62)
DIRECTION 13 (52, 53, 54)
DISC 1 – 3 12 (18, 21, 53, 77)
DISC SKIP/EX-CHANGE 11 (12, 17, 18, 21, 53)
Disc tray 9 (17)
DISPLAY 2 (40, 63, 65, 77)
Display window 6
DVD 33 (12, 40, 53)
ECHO LEVEL[2] 19 (57)
EQ BAND/MEMORY 4 (57)
GROOVE 31 (55)
ILLUMINATION 34[2] (63)
MIC 1/2 jack 21[1] (57)
MIC LEVEL 20 (57)
Operation Dial (⏮ ⏭) 5 (57)
PHONES jack 24
Power illuminator 17 (63)
PRESET EQ 32 (55, 57)

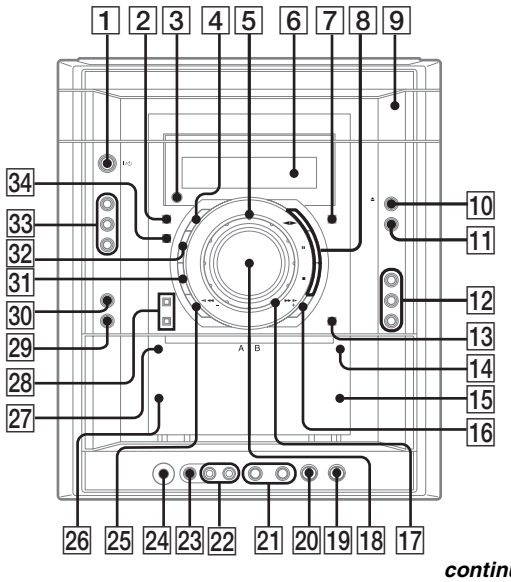
R – Z

REC PAUSE/START 28 (for MHC-GNZ9D/GNZ8D/GNZ7D)
29 (for MHC-GNZ5D) (53, 54)
Remote sensor 3
SOUND FIELD 7 (55)
TAPE A/B 33 (52, 53, 54)
TUNER/BAND 33 (50, 51, 54)
TUNING + 16 (50, 51)
TUNING – 25 (50, 51)
TV/SAT 30[2] (54, 70)
VIDEO 29[2] (54, 70)
VIDEO INPUT AUDIO L/R jacks 22 (54, 69)
VIDEO INPUT VIDEO jack 23 (69)
VOLUME control 18 (44, 58)

BUTTON DESCRIPTIONS

I/⏻ (power) 1 (10, 51, 61, 68, 77)
◄► (play) 8 (17, 39, 52, 53)
❚❚ (pause) 8 (11, 18, 52)
■ (stop) 8 (12, 18, 45, 52, 53, 77)
⏏ OPEN/CLOSE 10 (17)
⏏ PUSH (deck B) (eject) 14 (52)
►► (fast forward) 16 (18, 52)
►❚ (slow forward) 16 (18)
◄◄ (rewind) 25 (18, 52)
❚◄ (slow rewind) 25 (18)
⏏ PUSH (deck A) (eject) 27 (52)

[1] MHC-GNZ5D has only one MIC jack.
[2] Except for MHC-GNZ5D



continued

Remote control

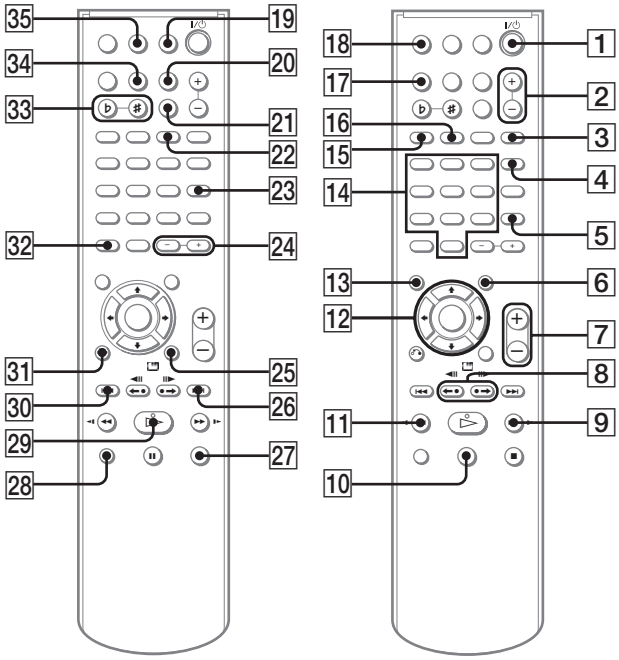
ALPHABETICAL ORDER

A – Q

ALBUM +/– 24 (18, 68)
ANGLE 5 (49)
AUDIO 4 (35, 57, 70)
CLEAR 32 (14, 20, 21, 23, 28, 33, 43)
DISC SKIP 20 (18, 21)
DISPLAY 17 (63, 65)
ENTER 12 (14, 23, 20, 21, 23, 24, 27, 29, 32, 33, 34, 37, 45, 50, 59, 61, 62, 77)
FM MODE 22 (51)
FUNCTION +/– 2 (14, 17, 50, 51)
KARAOKE MODE 15 (57)
KARAOKE PON 16 (59)
MENU 6 (23, 26, 27, 29, 31, 50)
Number buttons* 14 (24, 46)
PICTURE NAVI 3 (28, 34)
PRESET + 26 (51)
PRESET – 30 (51)

R – Z

REPEAT 22 (22)
SLEEP 18 (61)
SOUND FIELD 21 (55, 70)
SUBTITLE 23 (49)
THEATRE SYNC 19 (68)
TIMER MENU 35 (14, 61, 62)
TIME/TEXT 34 (64, 65)
TOP MENU 13 (23)
TUNING + 9 (50, 51)
TUNING – 11 (50, 51)
TV 28 (68)
TV CH + 26 (68)
TV CH – 30 (68)
TV/VIDEO 18 (68)
TV VOL +/–* 7 (68)
VOLUME +/–* 7 (44, 61)



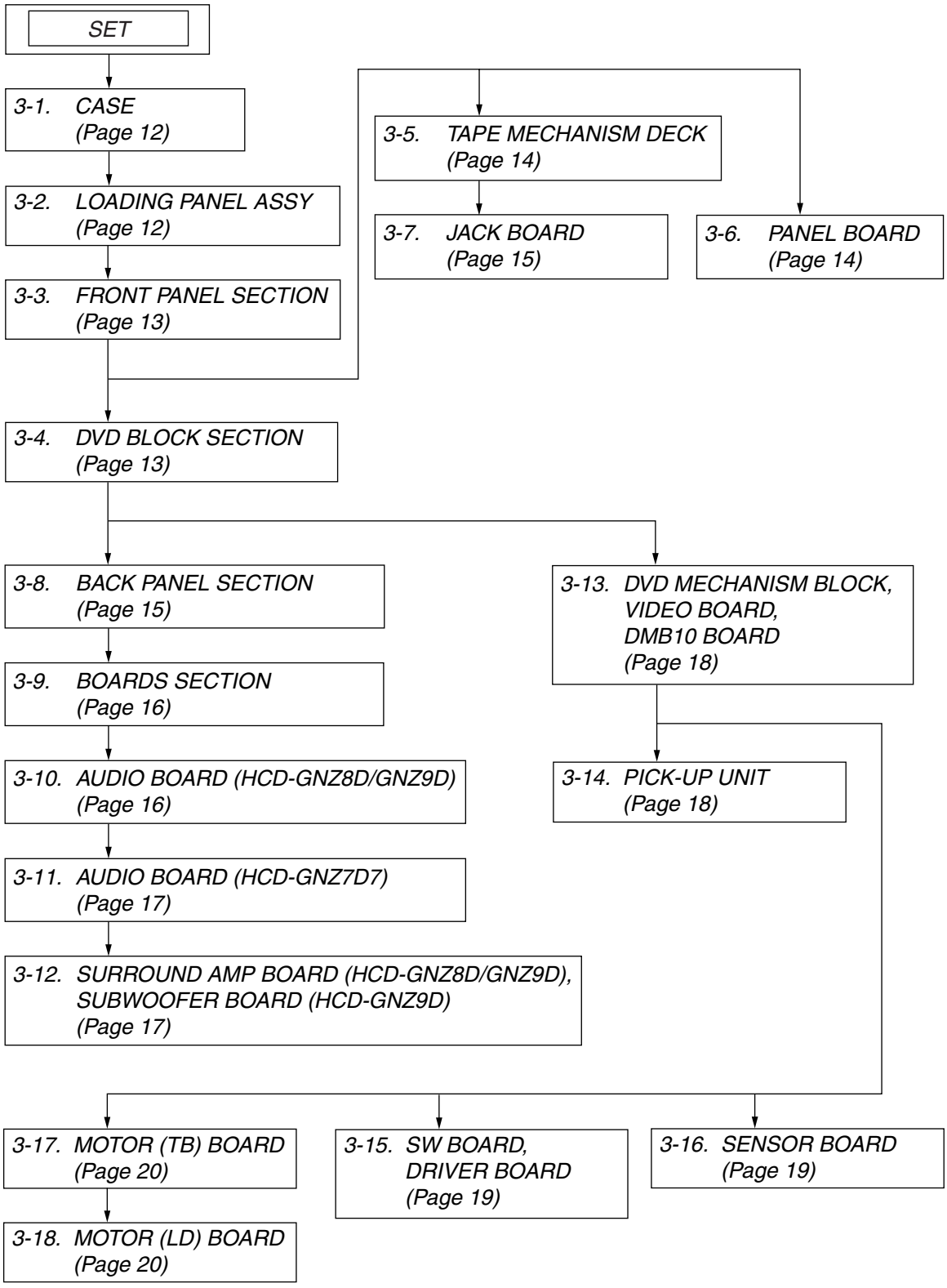
BUTTON DESCRIPTIONS

I/⏻ (power) 1 (10, 61, 68, 77)
TV I/⏻ 1 (68)
←● REPLAY/ADVANCE ●→/ ◀II STEP/STEP II▶ 8 (18)
SLOW I▶ 9 (18)
▶▶ (fast forward) 9 (18, 52)
II (pause) 10 (18, 52)
◀I SLOW 11 (18)
◀◀ (rewind) 11 (18, 52)
↑/↓/←/→ 12 (14, 20, 37, 59, 61, 77)
DISPLAY 25 (21, 45, 65, 67)
▶▶I (go forward) 26 (18)
■ (stop) 27 (52)
I◀◀ (go back) 30 (18)
▷ (play)* 29 (17, 39)
RETURN 31 (24)
-/-- 32
KEY CONTROL ♯/♭ 33 (59)

* The ▷, number 5 and VOLUME + (TV VOL +) buttons have tactile dots. Use the tactile dots as references when operatihng the system.

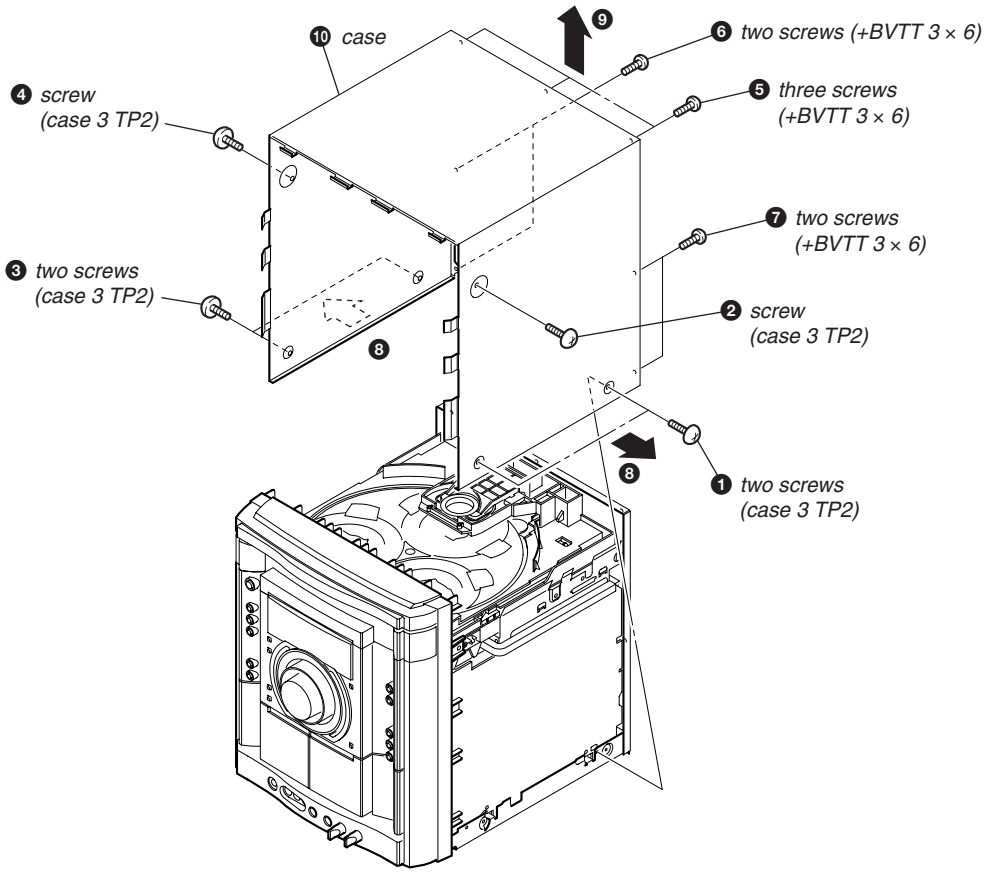
SECTION 3
DISASSEMBLY

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

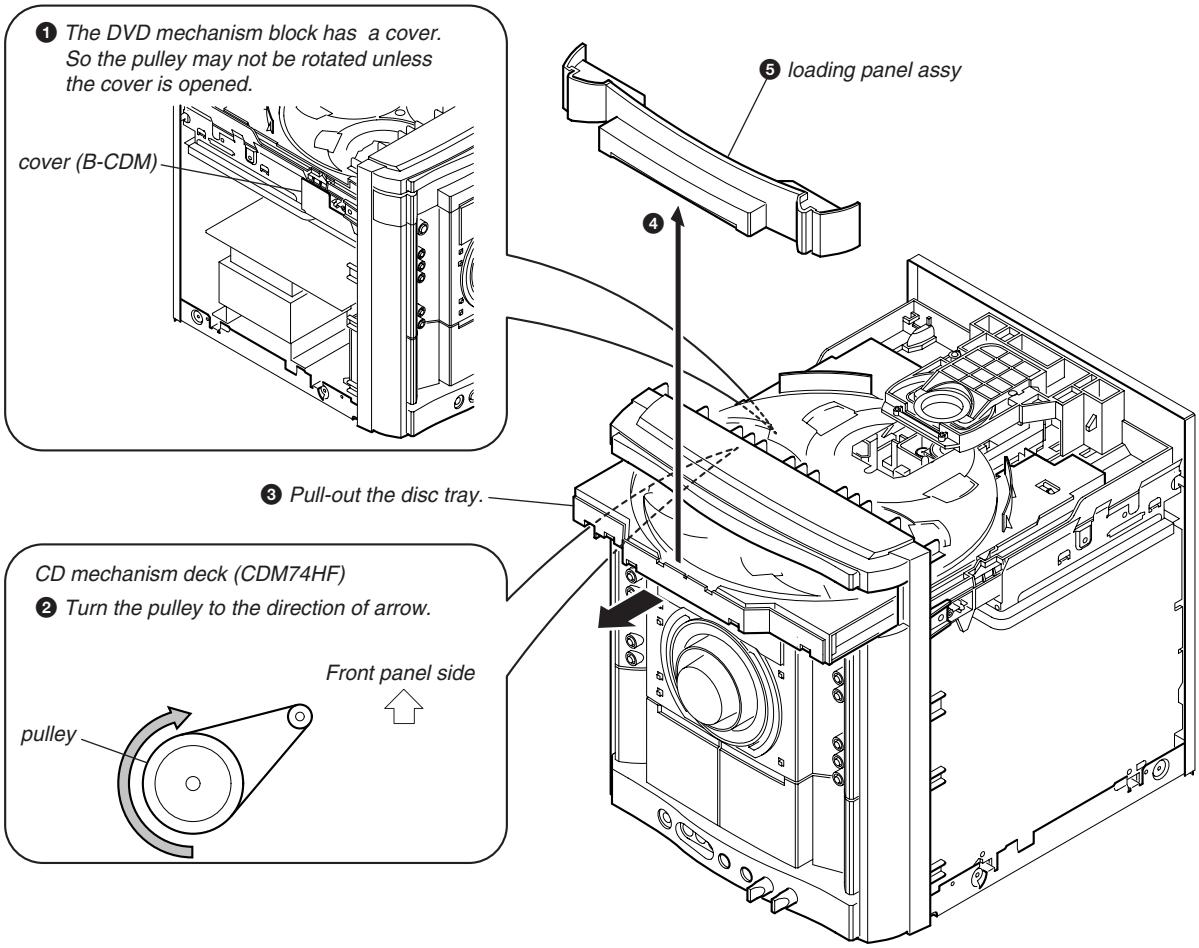


Note : Follow the disassembly procedure in the numerical order given.

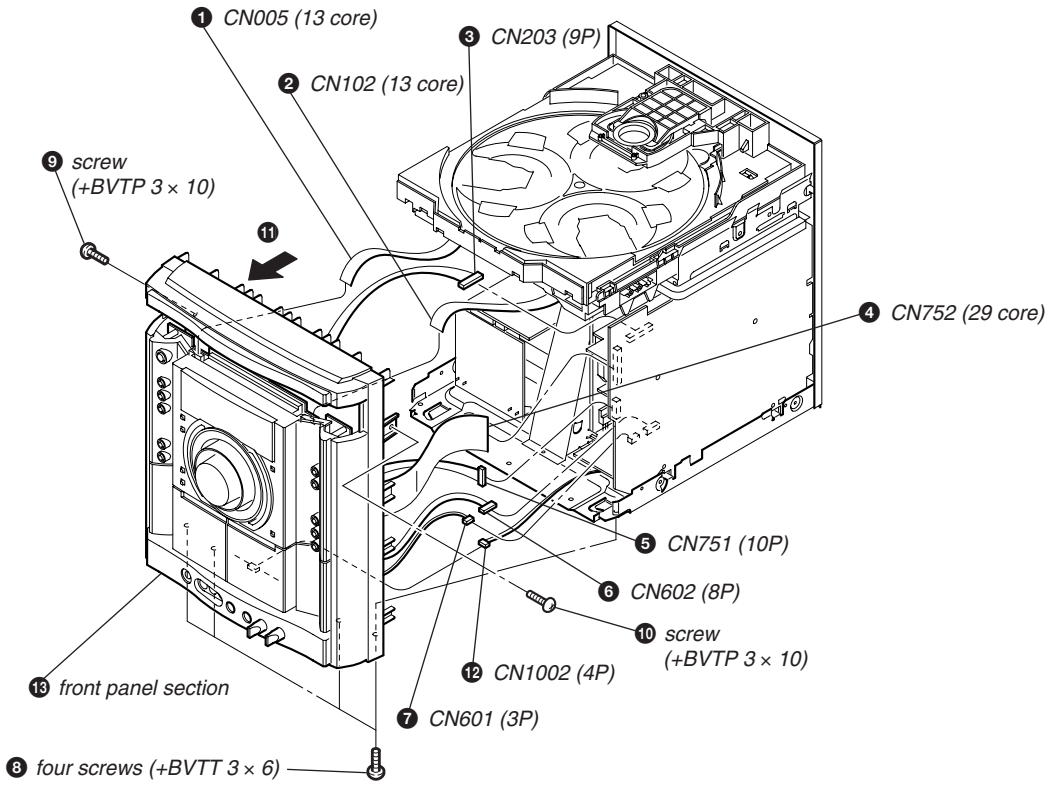
3-1. CASE



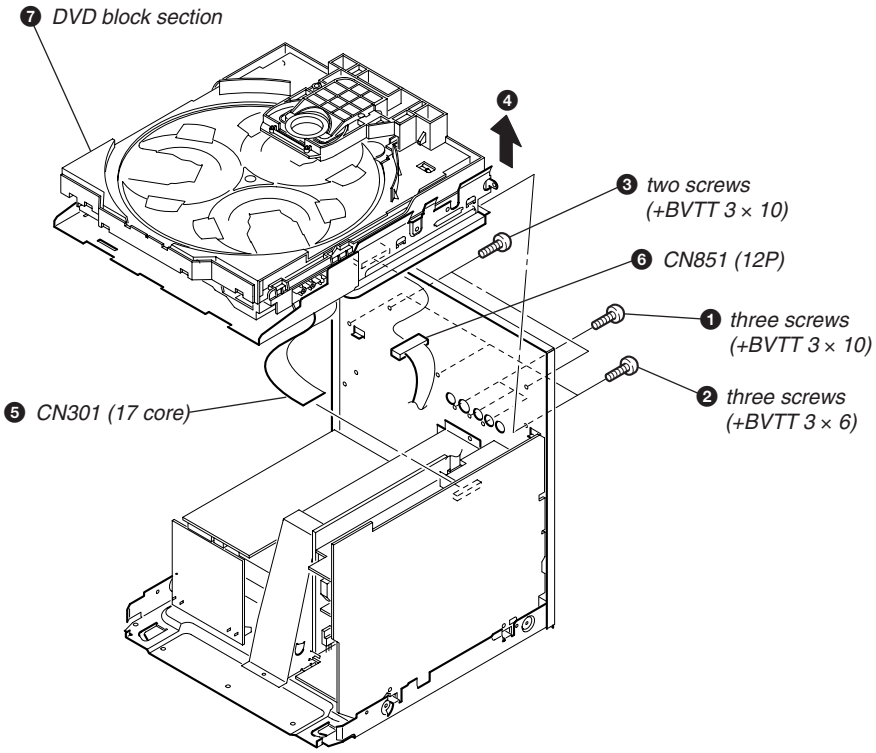
3-2. LOADING PANEL ASSY



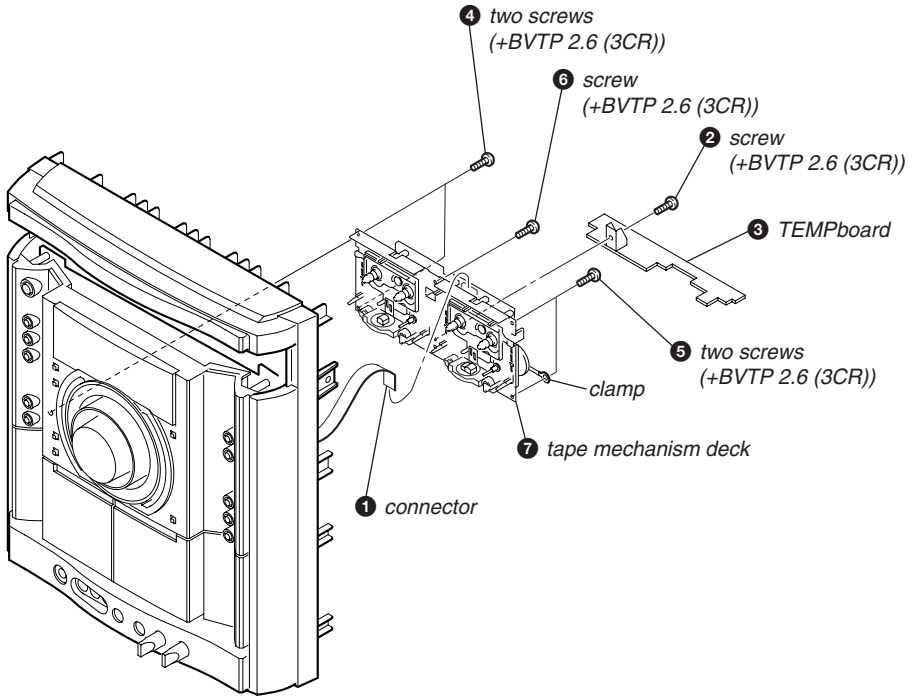
3-3. FRONT PANEL SECTION



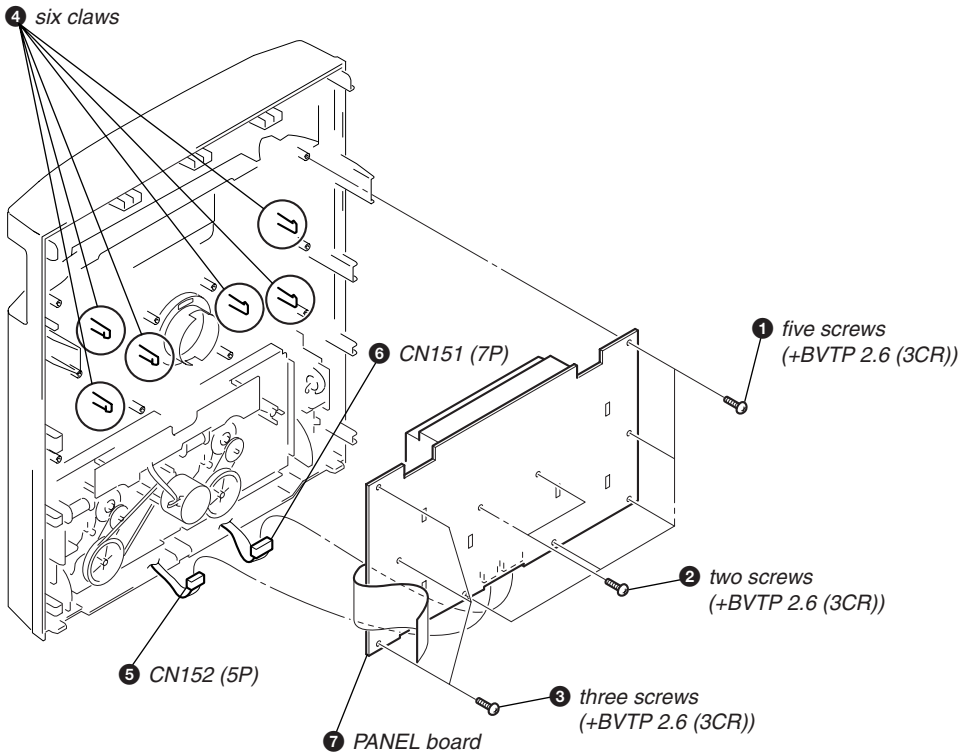
3-4. DVD BLOCK SECTION



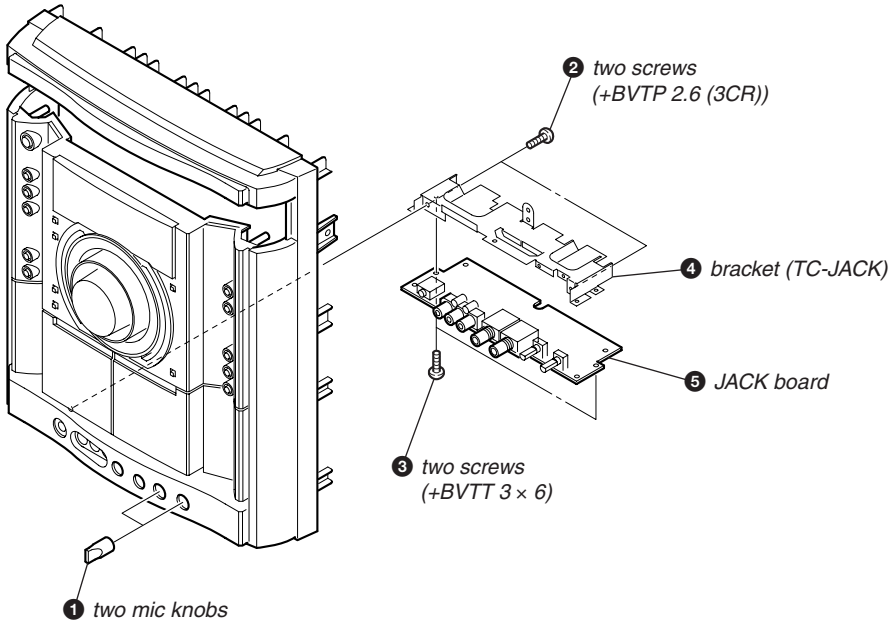
3-5. TAPE MECHANISM SECTION



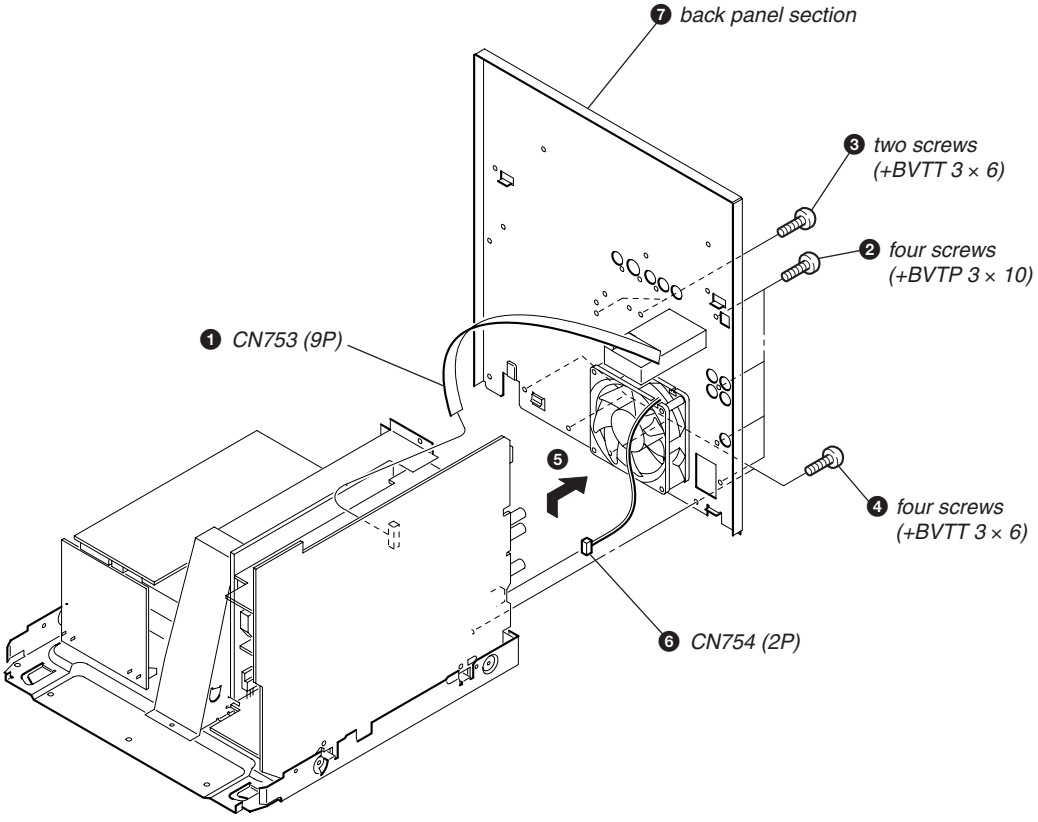
3-6. PANEL BOARD



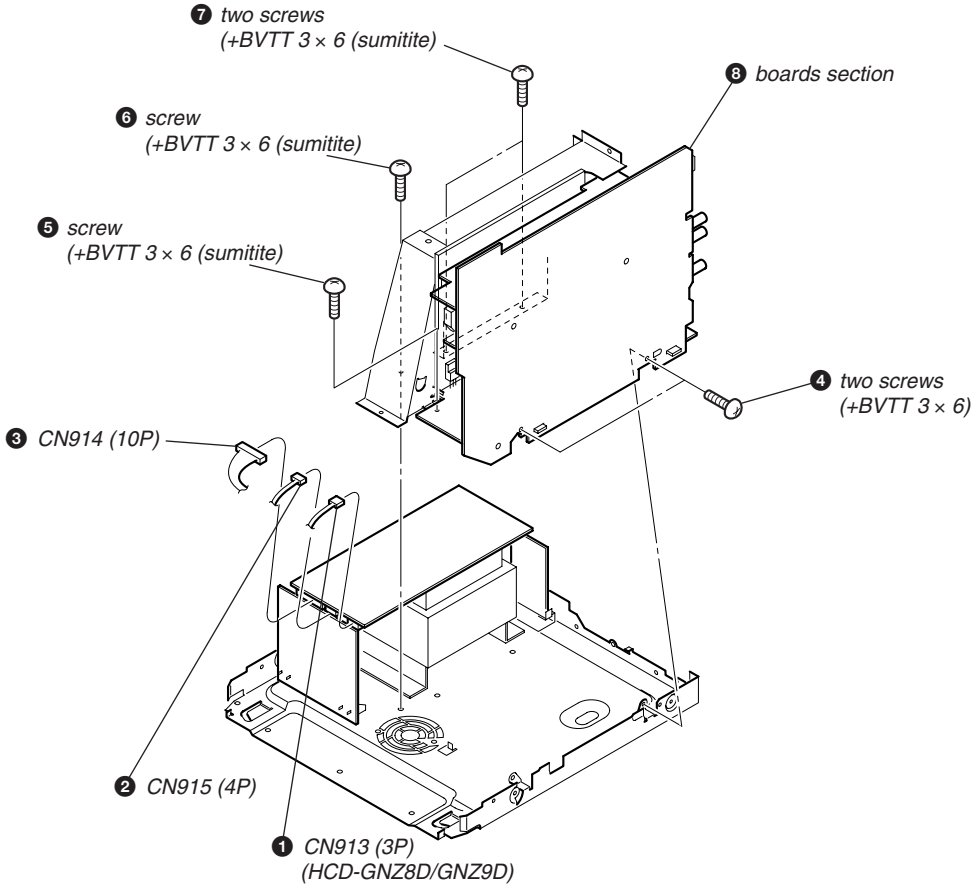
3-7. JACK BOARD



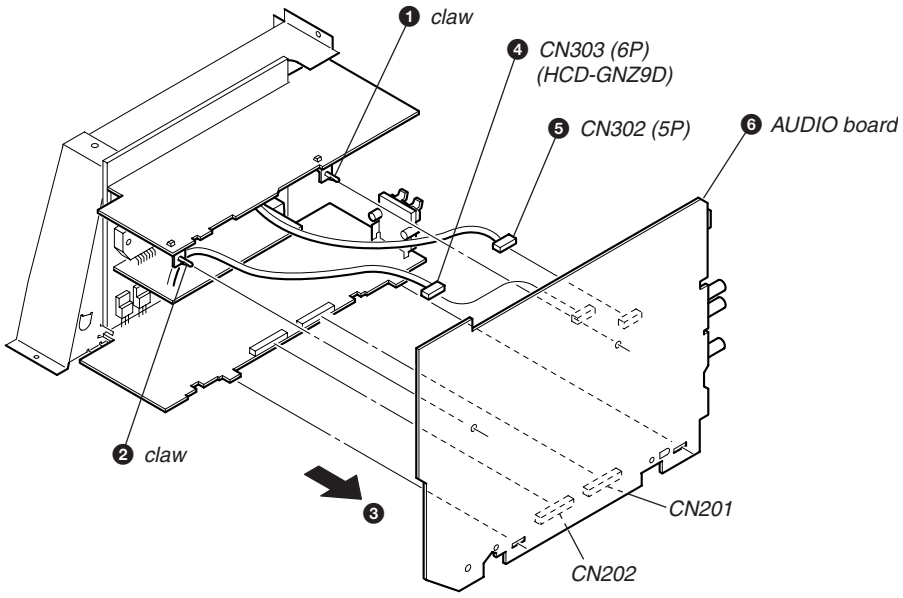
3-8. BACK PANEL SECTION



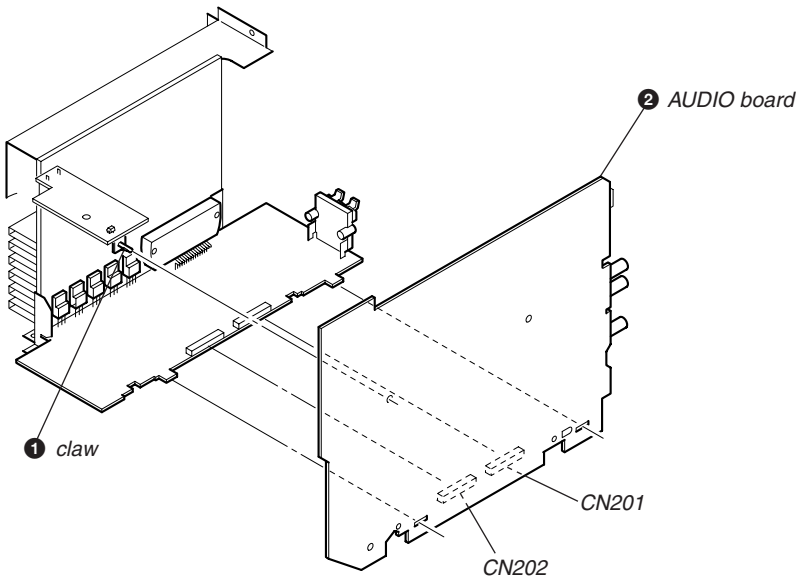
3-9. BOARDS SECTION



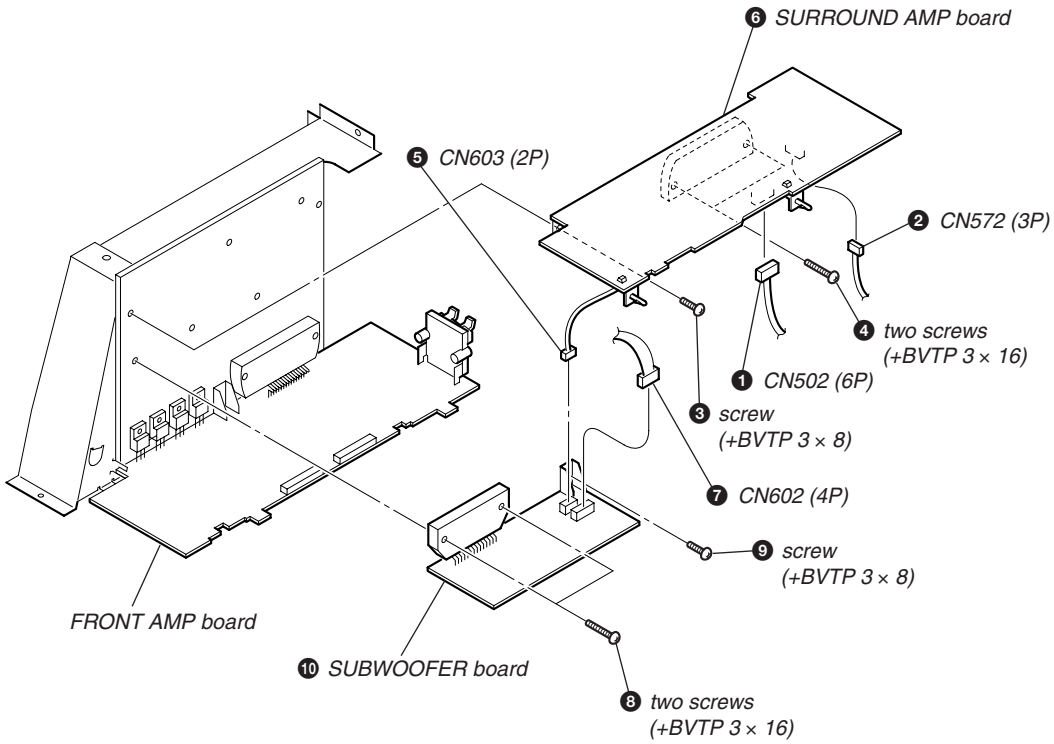
3-10. AUDIO BOARD (HCD-GNZ8D/GNZ9D)



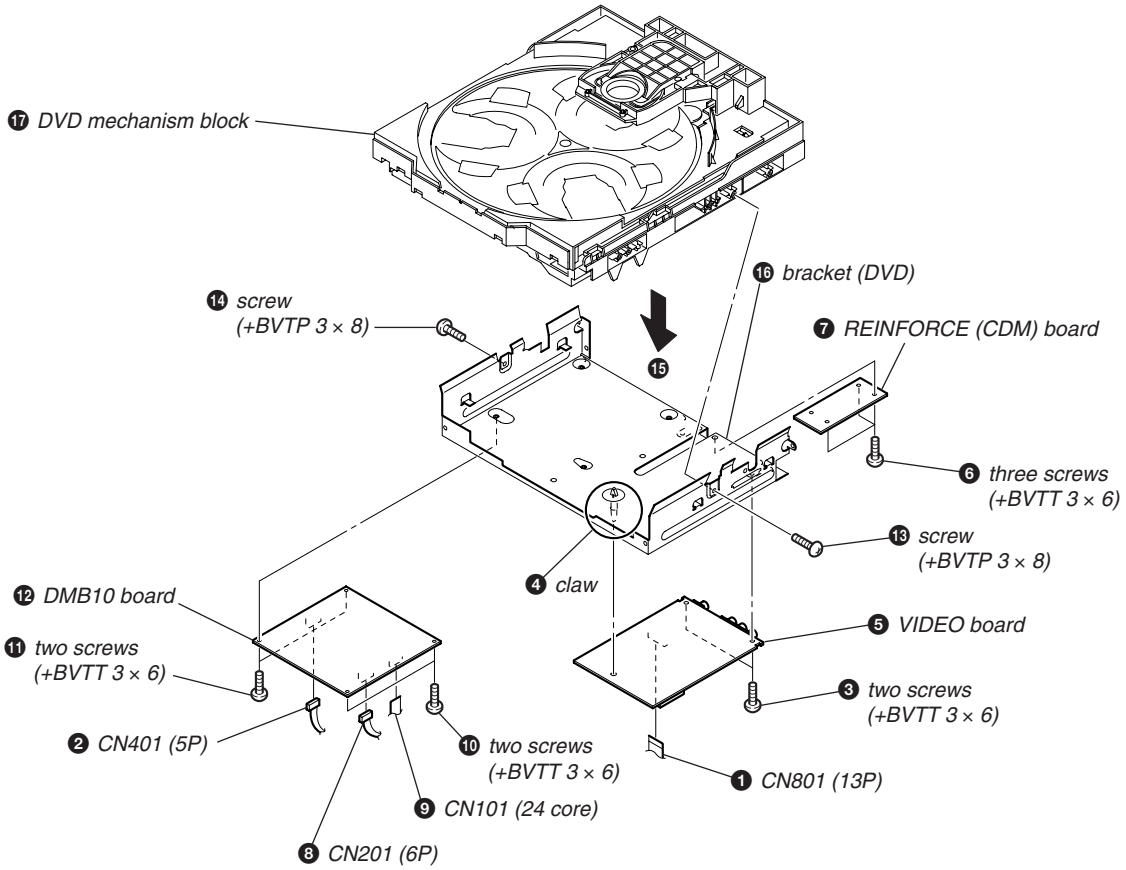
3-11. AUDIO BOARD (HCD-GNZ7D)



3-12. SURROUND AMP BOARD (HCD-GNZ8D/GNZ9D), SUBWOOFER BOARD (HCD-GNZ9D)

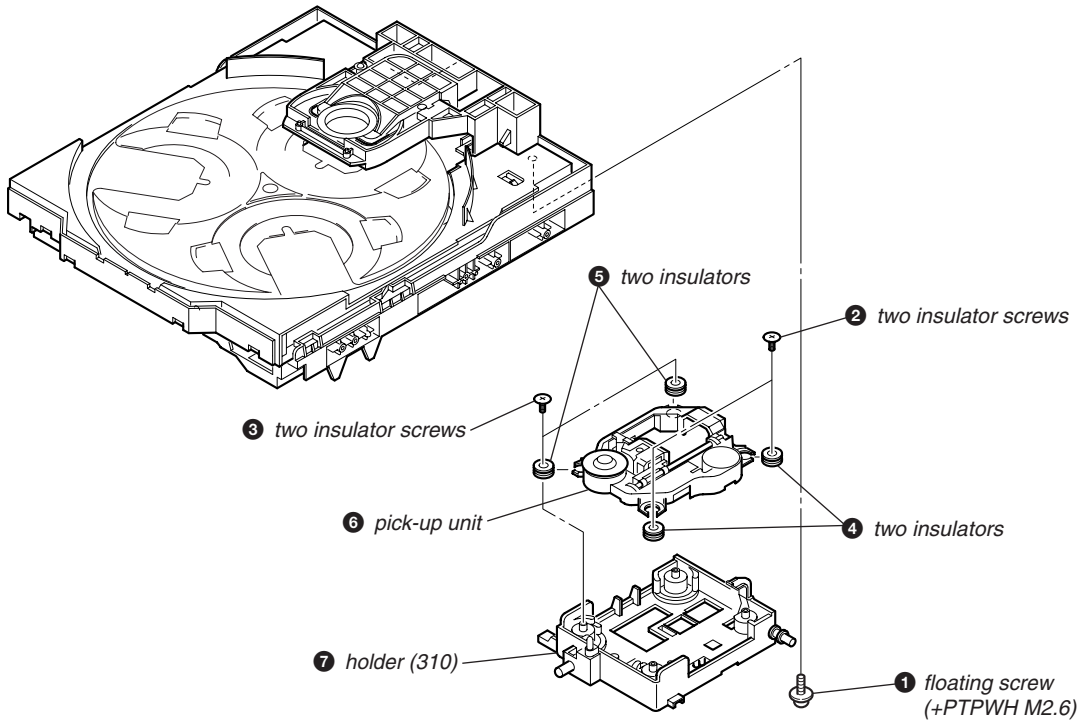


3-13. DVD MECHANISM BLOCK, VIDEO BOARD, DMB10 BOARD

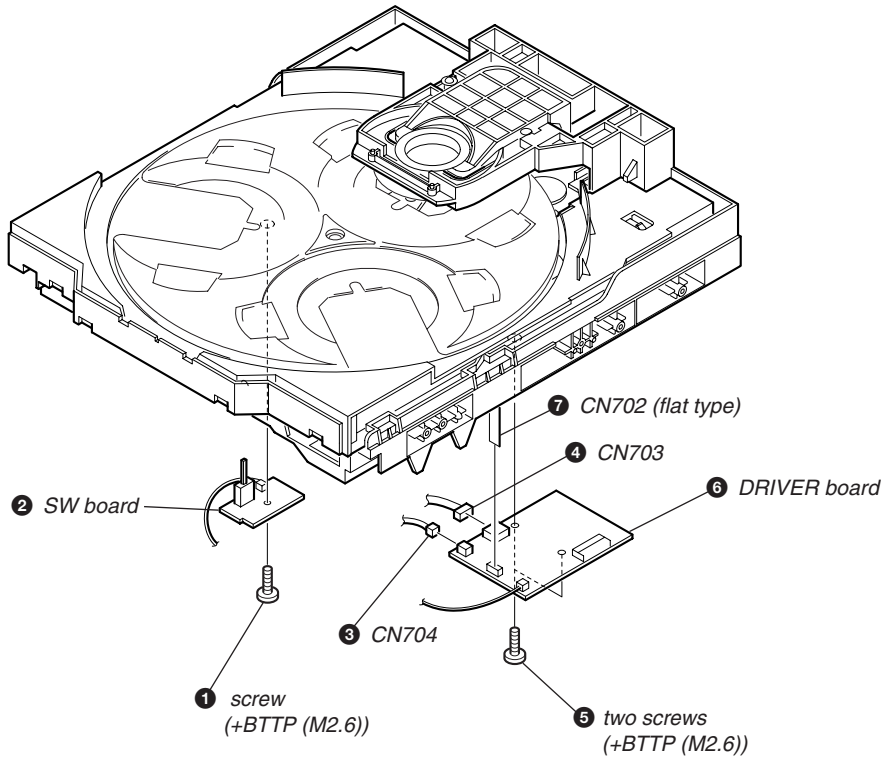


Note : Be short-circuited of the land of optical pick-up when CN101 is done in pulling out.

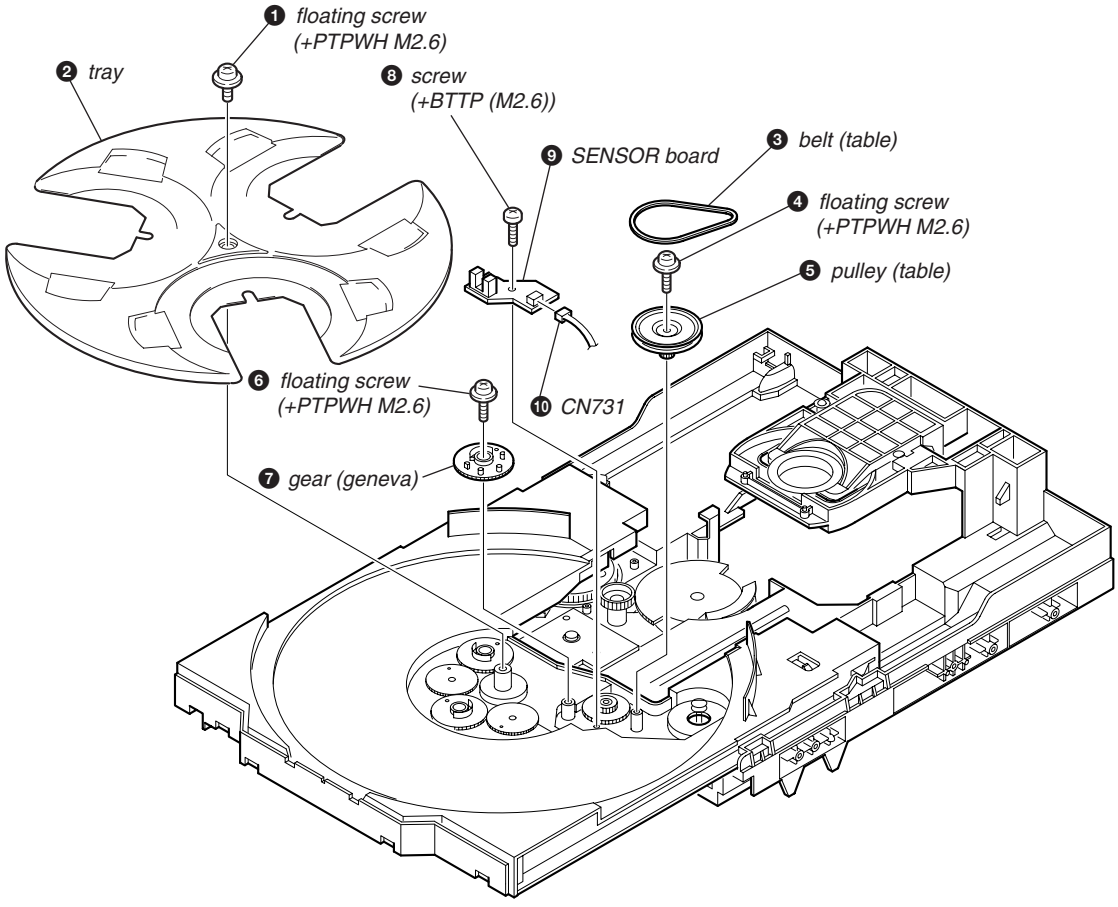
3-14. PICK-UP UNIT



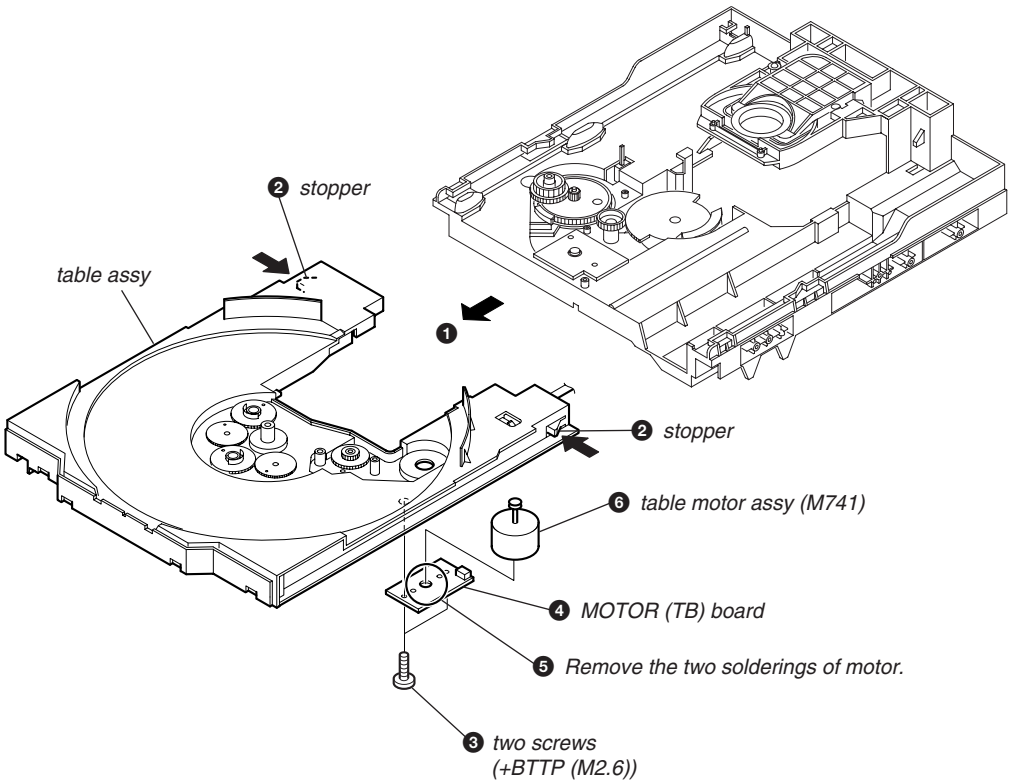
3-15. SW BOARD, DRIVER BOARD



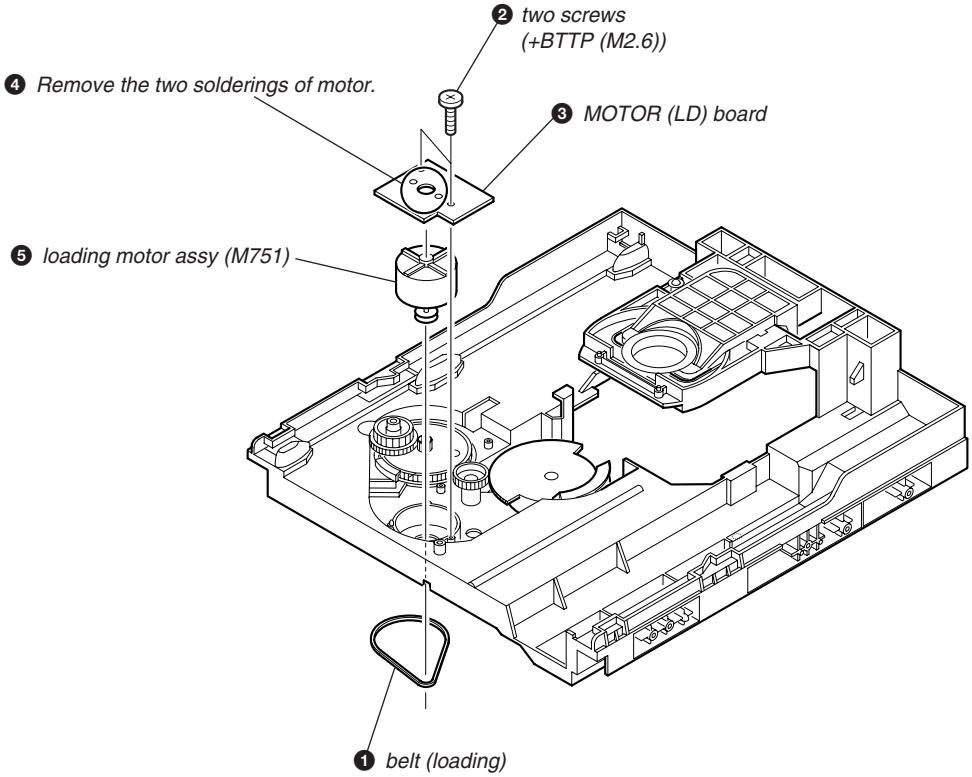
3-16. SENSOR BOARD



3-17. MOTOR (TB) BOARD



3-18. MOTOR (LD) BOARD



SECTION 4
TEST MODE

[Cold Reset]

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

Procedure:

1. Press three buttons of ■ , DISPLAY and DISC 1 simultaneously.
2. The message "COLD RESET" is displayed, and the set is reset.

[Tuner Step Change]

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

Procedure:

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

[TV/SAT Function Change]

• Change of function TV or SAT (also the input level changes).

Procedure:

1. Press the I/⏻ button to turn the power ON.
2. Press two buttons of TV/SAT and I/⏻ simultaneously, and the message changes to "SAT" or "TV", and thus the channel step is changed over.

[Color System Change]

Procedure:

1. Press the I/⏻ button to turn the power ON.
2. Press two buttons of ❚❚ and I/⏻ simultaneously.
3. The message "COLOR NTSC" or "COLOR PAL" is displayed.

[Disc Tray Lock]

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

Setting Procedure :

1. Press the I/⏻ button to turn the power ON.
2. Press two buttons of ■ and ⏏ simultaneously for five seconds.
3. The message "LOCKED" is displayed, and the tray is locked.

Releasing Procedure :

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

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

[Progressive Change]

Procedure:

1. Press the I/⏻ button to turn the power ON.
2. Press two buttons of DVD and DISPLAY simultaneously.

[Panel Test Mode]

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

Enter The Panel Test Mode

Procedure:

1. Press three buttons of ■ , DISPLAY and DISC 2 simultaneously.
2. LEDs and fluorescent indicator tube are all turned on.

Model Information

Procedure:

1. It puts it into the start of the panel test mode.
2. Press the DIRECTION button, the mode change model name or destination display.

Key Test Mode

Procedure:

1. It puts it into the start of the panel test mode.
2. Press the ◄► button, the mode change key test mode.

VACS Display

Procedure:

1. It puts it into the start of the panel test mode.
2. Press the ❚❚ button, the mode change VACS display. The message "VACS 0+0" is displayed.

Version Display

Procedure:

1. It puts it into the start of the panel test mode.
2. Press the DIRECTION button, the mode change version display. Press the DISPLAY button, the mode change version or days is displayed.
3. You can exit the Test Mode when you press three buttons of ❚❚, DISPLAY and DISC 2 simultaneously.

[Common Test Mode]

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

Procedure:

• To enter MC Test Mode

1. Press the I/⏻ button to turn the power ON.
2. Press three buttons of ■ , DISPLAY and DISC 3 simultaneously.

* Check of Amplifier

Initial settings: Input ➡ TV
EQ ➡ FLAT
Mode ➡ MUSIC
VACS ➡ OFF

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

* To return to normal mode again.

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

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

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

Procedure:

1. Press the I/⏻ button to turn the power ON.
2. Press two buttons of ■ and DISC SKIP simultaneously.
3. After the "STANDBY" display blinks 15 times, the message "LOCK" is displayed, and the DVD ship mode is set.

[DVD and CD Ship Mode (Memory Clear)]

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

Procedure:

1. Press the I/⏻ button to turn the power ON.
2. Press three buttons of ■, DISPLAY and DIRECTION simultaneously.
3. After the "STANDBY" display blinks 15 times, the message "LOCK" is displayed, and the DVD ship mode is set.

DVD SECTION

[TEST DISC LIST]

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

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

4-1. GENERAL DESCRIPTION

The Mirror Time and IOP measurement allows you to make diagnosis and adjustment simply by using the remote commander and monitor TV. The instructions, diagnosis results, etc. are given on the on screen display (OSD).

The Mirror Time and IOP measurement is required is such events where servicing a DVD-Player includes changing the Base Unit (BU). For each new BU to be used with a certain MV-044 board, Mirror Time and IOP measurement need to be carried out.

4-2. STARTING TEST MODE

Press three buttons ■ , ⏏ and VOLUME + simultaneously with the DVD player in standby mode.
The Test Mode starts, then the menu shown below will be displayed on the TV screen.

```
Remocon Diagnosis Menu

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

Model Name : GVLXD_XX
IF-con     : Ver. xx.xx (xxxx)
Syscon     : Ver. x.xxx
```

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

4-3. DRIVE MANUAL OPERATION

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

```
Drive Manual Operation

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

4-4. MIRROR TIME ADJUSTMENT

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

```
MIRR time Adjust Menu

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

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

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

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

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

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

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

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

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

4-4-1. EXECUTING MIRROR TIME ADJUSTMENT

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

(1) In standby mode, press three buttons ■ , ⏏ and VOLUME + simultaneously.
(2) Select “2. Drive Manual Operation”.

```
Remocon Diagnosis Menu

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

Model      : GVLXD_xx
IF-con     : Ver. xx.xx (xxxx)
Syscon     : Ver. x.xxx
```

(3) Select “5. MIRR time Adjust”.

```
Drive Manual Operation

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

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

```
MIRR time Adjust Menu

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

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

(5) Select “3. Threshold”.

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

```
MIRR time Adjust Menu

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

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

(7) Push ⏏ button to eject tray.

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

(9) Push ⏏ button to close tray.

(10) Push “2. DVD MIRR time Check”.

(11) Wait for HEX number to display.

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

```
MIRR time Adjust Menu

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

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

(13) Push “4. Save to EEPROM”.

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

```
MIRR time Adjust Menu

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

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

(15) Push ⏏ button to eject tray.

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

(17) Push ⏏ button to close tray.

(18) Push “1. CD MIRR time check”.

(19) Wait for HEX number to display.

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

```
MIRR time Adjust Menu

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

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

(21) Push “4. Save to EEPROM”.

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

```
MIRR time Adjust Menu

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

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

(23) Push ⏏ button to eject tray.

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

(25) Push ⏏ button to close tray.

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

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

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

4-5. EXECUTING IOP MEASUREMENT

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

(1) In standby mode, press three buttons [■] , [⏏] and [VOLUME +] simultaneously.

```
        Remocon Diagnosis Menu

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

Model         : GVLXD XX
IF-con  Ver   : XX.XX (XXXX)
Syscon  Ver   : X.XX
```

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

```
        Drive Manual Operation

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

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

```
            Manual Adjust

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

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

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

(5) Wait until a hexadecimal number appear.

```
            Manual Adjust

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

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

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

(7) Substract between these two values.

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

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

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

SECTION 5
MECHANICAL ADJUSTMENTS

Precaution

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

Torque Measurement

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

SECTION 6
ELECTRICAL ADJUSTMENTS

DVD SECTION

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

1) MIRROR TIME ADJUSTMENT (See page 22)
2) EXECUTING IOP MEASUREMENT (See page 24)

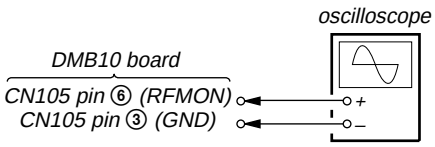
[TEST DISC LIST]

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]

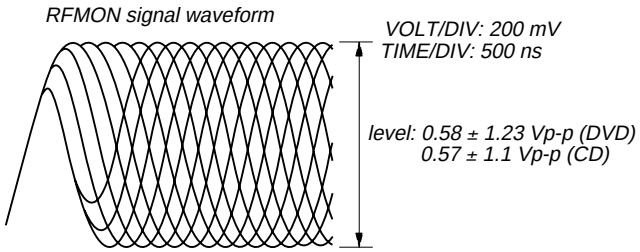
Connection:



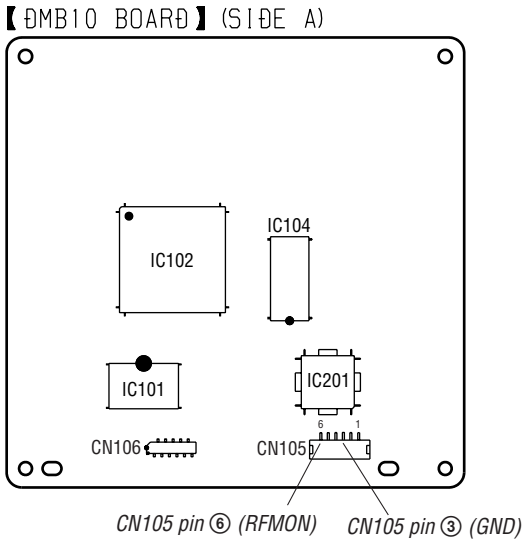
Procedure:

1. Connect an oscilloscope to CN105 pin ⑥ (RFMON) and CN105 pin ③ (GND) on the DMB10 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.



Checking Location: DMB10 board (Side A)

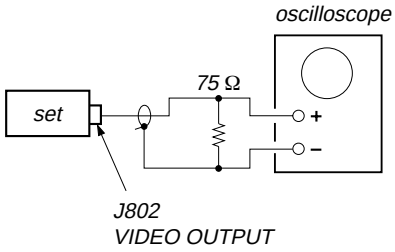


VIDEO SECTION

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±0.07Vp-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

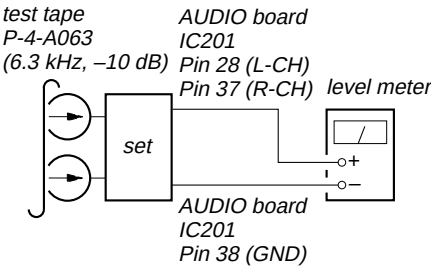
Record/Playback Head Azimuth Adjustment

DECK A **DECK B**

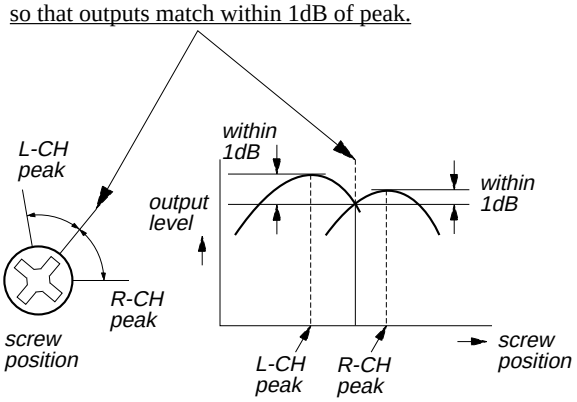
Note: Perform this adjustments for both decks

Procedure:

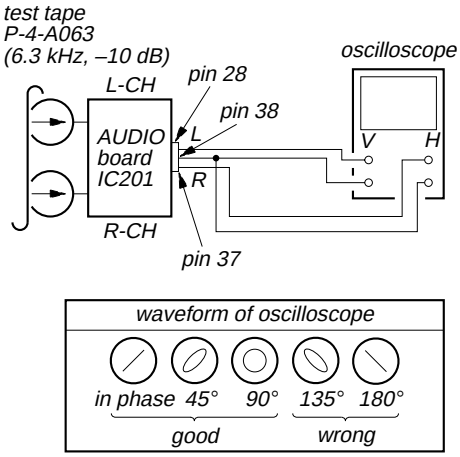
1. Mode: Playback



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.

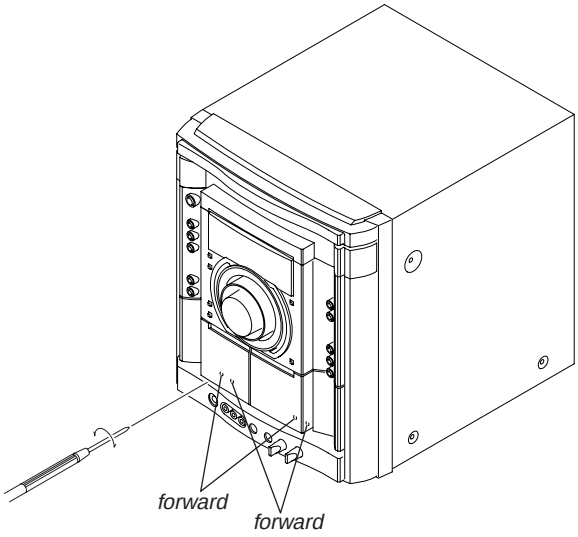


3. Mode: Playback



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

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



SECTION 7
DIAGRAMS

- **IC PIN Descriptions**

IC101 M30392MEP-A00FPU (SYSTEM CONTROL) (PANEL BOARD (2/2))

Pin No.	Pin Name	I/O	Pin Description
1	61537 CLK	O	TA device control serial clock signal output
2	61530 CLK	O	TA device control serial clock signal output
3	TA DATA	O	TA device control serial data signal output
4	STANDBY LED	O	Standby LED control signal output
5	VIDEO OUT SW	O	Video out switch control signal output "H": VIDEO
6	VIDEO MUTE	O	Video mute signal output "L": VIDEO
7	SIRCS	I	Remote control signal input
8	VACS2	I	VACS signal input
9	CN VSS	—	Connector ground pin
10	X CIN	I	Sub clock signal input (32.768 kHz)
11	X COUT	O	Sub clock signal output (32.768 kHz)
12	RESET	I	Reset signal input
13	XOUT	O	Main clock signal output (16 MHz)
14	VSS	—	Ground pin
15	X IN	I	Main clock signal input (16 MHz)
16	VCC1	—	Power supply pin (+3.3 V)
17	P85	I	Pull up (EVER+3.3 V)
18	ILLUMI 1/4	O	Illumination on/off control signal output "H": On
19	ST TUNED	I	ST tuned signal input
20	AC CUT	I	AC cut signal input
21	ILLUMI CTRL	O	Illumination control signal output
22	DVD POWER	O	DVD power supply control signal output
23	MTK RESET	O	MTK reset signal output
24	MTK BUSY	O	MTK busy signal output
25	I2C CLK	I/O	I2C serial clock signal input/output
26	I2C DATA	I/O	I2C serial data signal input/output
27	MTK OUT	O	MTK serial data signal output
28	MTK IN	I	MTK serial data signal input
29	MTK CLK	I	MTK serial clock signal input
30	MTK CS	I	MTK chip select signal input
31 to 43	G13 to G1	O	Grid and segment control signal output
44 to 51	P1 to P8	O	Grid and segment control signal output
52	VEE	—	Power supply pin
53 to 61	P9 to P17	O	Grid and segment control signal output
62	VCC2	—	Power supply pin (+3.3 V)
63	P18	O	Grid and segment control signal output
64	VSS	—	Ground pin
65 to 67	P19 to P21	O	Grid and segment control signal output
68	ST CE	O	Tuner chip enable signal output
69	ST DIN	I	Tuner data in signal input
70	ST DOUT	O	Tuner data out signal output
71	ST CLK	O	Tuner serial clock signal output
72	I/O VCC CONT	O	In/out power supply control signal output
73	I/O LATCH	O	In/out serial latch control signal output
74	WAKE UP0	I	Wake up signal input
75	I/O CLK	O	In/out serial clock control signal output
76	I/O DI1	O	In/out serial data control signal output
77	I/O RST	O	In/out reset signal output
78	TRG (B)	O	Tape mechanism logic (Trigger B) control signal output
79	TRG (A)	O	Tape mechanism logic (Trigger A) control signal output
80	ILLUMI 3/6	O	Illumination on/off control signal output "H": On
81	ILLUMI 2/3	O	Illumination on/off control signal output "H": On
82	PLAY SW (A) & (B)/ A-HALF	I	Head up switch detect signal input (A deck and B deck) A deck HALF signal input

Pin No.	Pin Name	I/O	Pin Description
83	SHUT (A)	I	Protect detect signal input (A deck)
84	SHUT (B)	I	Protect detect signal input (B deck)
85	B HALF/REC	I	B deck HALF signal input/Record signal input (A deck and B deck)
86	BIAS	O	Bias on/off signal output
87	KARAOKE/ MTK M REQ	I	MTK KARAOKE mode signal input MTK mute request signal input
88	VACS/ILLUMI	I	VACS and illumination (L+R) control signal input
89	VOL (A) & (B)/ SW IN	I	Volume A and B control signal input Sub woofer control signal input
90	SPEC IN	I	Specification signal input
91	MODEL IN	I	Serial line up signal input
92 to 94	KEY2 to KEY0	I	Key signal input
95	CDM EJECT/ PROTECT	I	CD mechanism eject detect signal input Protect detect signal input
96	AVSS	—	Ground pin
97	CDM ENC0/1/2	I	CD mechanism switch signal input
98	VREF	—	Voltage reference pin
99	AVCC	—	Power supply pin (+3.3 V)
100	CDM TBL SENS	I	CD mechanism table sensor detect signal input

IC102 BH2210FV (SIGNAL IN/OUT CONTROL) (PANEL BOARD (2/2))

Pin No.	Pin Name	I/O	Pin Description
1	CTLIO	I	IN/OUT control port (Fixed at “H” in this set.)
2	RSTB	I	Reset signal input
3	CLK	I	Serial clock signal input
4	LATCH	I	Serial latch signal input
5	STBY RELAY	O	Standby relay on/off signal output “H”: On, “L”: Off
6	FAN ON/OFF	O	Fan on/off signal output “H”: Off, “L”: On
7	FRONT RELAY	O	Front relay on/off signal output “H”: On, “L”: Off
8	TA MUTE	O	TA line mute on/off signal output “H”: Off, “L”: On
9	HP MUTE	O	Headphones mute on/off signal output “H”: Off, “L”: On
10	AU-OUT MUTE	O	Audio out mute on/off signal output “H”: Off, “L”: On
11	SW MUTE	O	Subwoofer mute on/off signal output “H”: Off, “L”: On
12	FAN CTRL	O	FAN control signal output “L”: Off
13 to 15	NO USE	O	Not used. (Open)
16	NO USE	O	Not used. (Fixed at “L”.)
17	TBL POS	O	CD mechanism table position control signal output
18	TBL NEG	O	CD mechanism table NEG control signal output
19	LOD POS	O	CD mechanism table loading position control signal output
20	LOD NEG	O	CD mechanism table NEG control signal output
21	PB/REC	O	Tape playback/record signal output “H”: REC, “L”: PB
22	REAR RELAY	O	Rear relay on/off signal output “H”: On, “L”: Off
23	SW RELAY	O	Subwoofer relay on/off signal output “H”: On, “L”: Off
24	CAPM SW	O	Capstan motor on/off signal output “H”: On, “L”: Off
25	DO2	O	Not used. (Open)
26	DI1	I	Serial data signal input
27	VSS	—	Ground pin
28	VDD	—	Power supply pin (+3 V)

DMB10 BOARD IC102 CXD9804R
(CD/DVD RF AMP, FOCUS/TRACKING ERR AMP, DVD SYSTEM PROCESSOR, DIGITAL SERVO PROCESSOR)

Pin No.	Pin Name	I/O	Description
1	AGND	—	Terminal Ground
2	DVDA	I	AC coupled input path A
3	DVDB	I	AC coupled input path B
4	DVDC	I	AC coupled input path C
5	DVDD	I	AC coupled input path D
6	DVDRFIP	I	AC coupled DVD RF signal input RFIP
7	DVDRFIN	I	AC coupled DVD RF signal input RFIN (not used)
8	NA	I	DC coupled main-beam RF signal input A
9	NB	I	DC coupled main-beam RF signal input B
10	MC	I	DC coupled main-beam RF signal input C
11	MD	I	DC coupled main-beam RF signal input D
12	SA	I	DC coupled sub-beam RF signal input A (not used)
13	SB	I	DC coupled sub-beam RF signal input B (not used)
14	SC	I	DC coupled sub-beam RF signal input C (not used)
15	SD	I	DC coupled sub-beam RF signal input D (not used)
16	CDFON	I	CD focusing error negative input (not used)
17	CDFOP	I	CD focusing error positive input (not used)
18	TNI	I	3 beam satellite PD signal negative input
19	TPI	I	3 beam satellite PD signal positive input
20	MDI1	I	Laser power PD monitor input
21	MDI2	I	Laser power PD monitor input
22	LDO2	O	Laser drive output
23	LDO1	O	Laser drive output
24	SVDD3	—	Power Supply (+3.3V)
25	CSO	O	Central servo, Positive main beam summing output (not used)
26	RFLVL	O	RFRP low pass, or Positive main beam summing output (not used)
27	SGND	—	Terminal Ground
28	V2REFO	O	Reference voltage 2.8V
29	V2O	O	Reference voltage 2.0V
30	VREFO	O	Reference voltage 1.4V
31	FEO	O	Focus error monitor output (not used)
32	TEO	O	Tracking error monitor output (not used)
33	TEZISLY	O	TE Slicing Level (not used)
34	OPOUT	O	Op amp output (not used)
35	OPIN	I	Op amp negative input (not used)
36	OPIN	I	Op amp positive input (not used)
37	DMO	O	Disk motor control output. PWM output
38	FMO	O	Feed motor control. PWM output
39	TROPENPWM	O	Tray PWM output/Tray open output.
40	IOPMON	O	General PWM output
41	TRO	O	Tracking servo output
42	FOO	O	Focus servo output
43	USBVSS	—	Terminal Ground
44	USBP	I	USB port DPLUS analog pin (not used)
45	USBM	I	USB port DMINUS analog pin (not used)
46	USBVDD3	—	Power Supply (+3.3V)
47	SPFGG	I	Motor Hall sensor input

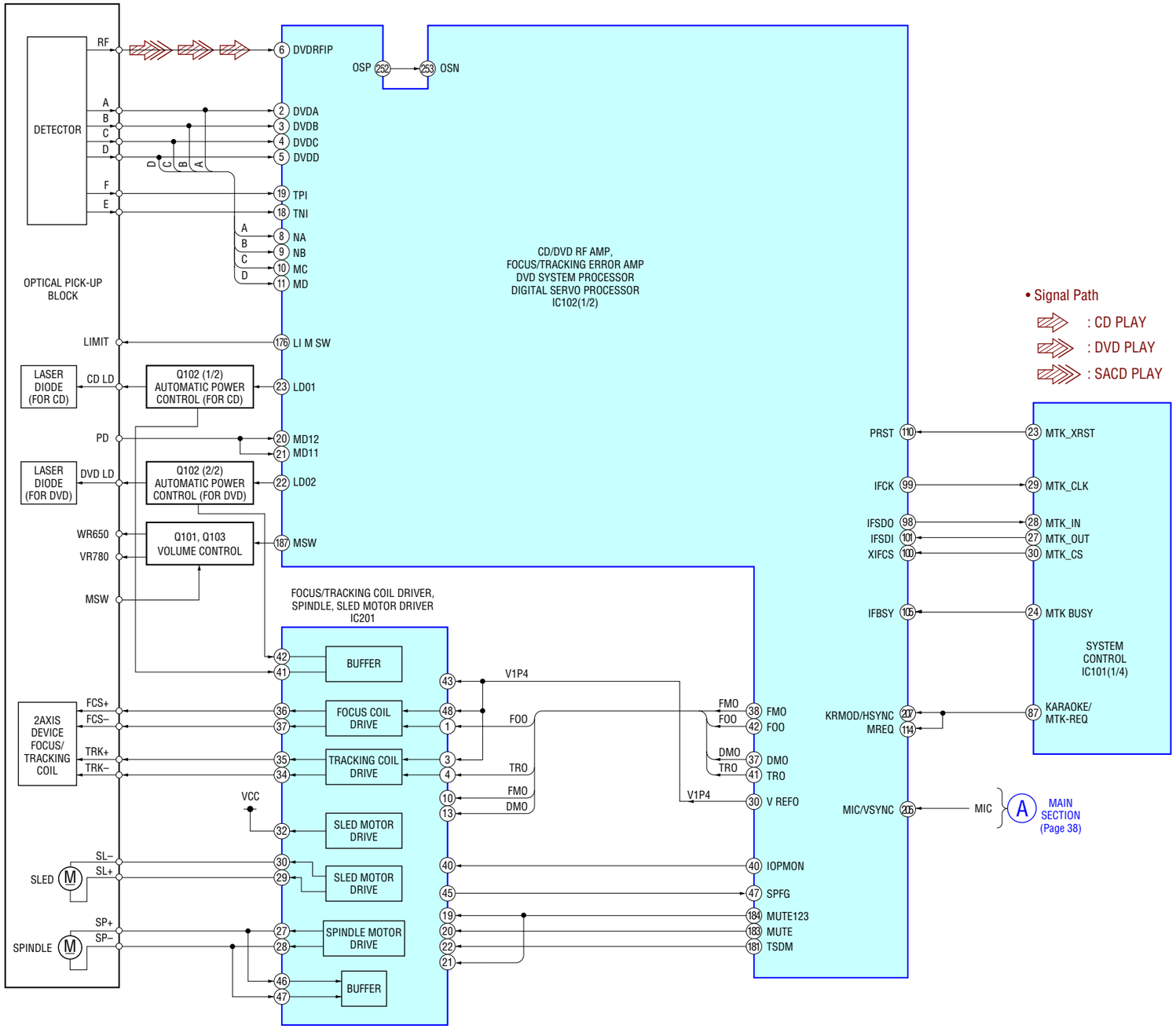
Pin No.	Pin Name	I/O	Description
48	AN0	I	Not Used
49	AN1	I	Not Used
50	AN2	I	Not Used
51	MAMUTE	O	MAMUTE signal output to System Controller (IC509) (not used)
52	DVDD18	—	Power Supply (+1.8V)
53 to 58	IOA 2 to 7	O	Address bus 2 to 7 output to PROM (IC101)
59	HIGHA0	O	Address bus 8 output to PROM (IC101)
60, 61	IOA18, 19	O	Address bus 18, 19 output to PROM (IC101)
62	DVSS	—	Terminal Ground
63	APLLCAP	I	APLL External Capacitance connection
64	APLLVSS	—	Terminal Ground
65	DVDD3	—	Power Supply (+3.3V)
66	I OWA	O	WE signal output to PROM (IC101)
67	A16	O	Address bus 16 output to PROM (IC101)
68 to 72	HIGHA 7 to 3	O	Address bus 15 to 11 output to PROM (IC101)
73	DVDD3	—	Power Supply (+3.3V)
74, 75	HIGHA 2, 1	O	Address bus 10, 9 output to PROM (IC101)
76	IOA20	O	Address bus 20 output to PROM (IC101)
77	IOCS	O	CE signal output to PROM (IC101)
78	IOA1	O	Address bus 1 output to PROM (IC101)
79	IOOE	O	OE signal output to PROM (IC101)
80	DVDD3	—	Power Supply (+3.3V)
81 to 84	AD 0 to 3	I	Data bus 0 to 3 input from PROM (IC101)
85	DVSS	—	Terminal Ground
86 to 88	AD 4 to 6	I	Data bus 4 to 6 input from PROM (IC101)
89	IOA21	O	Address bus 21 output to PROM (IC101)
90	ALE	O	Address latch enable (not used)
91	AD7	I	Data bus 7 input from PROM (IC101)
92	A17	O	Address bus 17 output to PROM (IC101)
93	IOA0	O	Address bus 0 output to PROM (IC101)
94	DVSS	—	Terminal Ground
95	UWA	I	System Controller write strobe (not used)
96	URB	I	System Controller read strobe (not used)
97	DVDD18	—	Power Supply (+1.8V)
98	IFSDO	I	DVD SOD signal input from System Controller (IC509)
99	IFCK	O	DVD SCO signal output to System Controller (IC509)
100	XIFCS	I	DVD XIFCS signal input from System Controller (IC509)
101	IFSDI	I	VIFBUSY signal output from System Controller (IC509)
102	SCL	O	SCL signal output to EEPROM (IC103)
103	SDA	O	SDA signal output to EEPROM (IC103)
104	TRG-SW	O	RS232 RXD signal output (not used)
105	IF-BSY	I	RS232 TXD signal input from System Controller (IC509)
106	RXD	I	RD232 RXD clock
107	TXD	I	RD232 TXD data
108	DVDD3	—	Power Supply (+3.3V)
109	ICE	I	ICE mode enable (not used)
110	PRST	I	MTRST signal input from System Controller (IC509)
111	IR	I	IR control signal input (not used)
112	INT0	I	External interrupt0 (not used)
113	DQMO	O	DQM0 signal output to SD-RAM (IC104)

Pin No.	Pin Name	I/O	Description
114	MREQ	I	DQM signal input
115	RD7	I	Data bus 7 from SD-RAM (IC104)
116	DVSS	—	Terminal Ground
117, 118	RD 6, 5	I	Data bus 6, 5 from SD-RAM (IC104)
119	DVSS	—	Terminal Ground
120, 121	RD 4, 3	I	Data bus 4, 3 from SD-RAM (IC104)
122	DVDD18	—	Power Supply (+1.8V)
123 to 125	RD 2 to 0	I	Data bus 2 to 0 from SD-RAM (IC104)
126	RD15	I	Data bus 15 from SD-RAM (IC104)
127	DVDD3	—	Power Supply (+3.3V)
128	RD 14	I	Data bus 14 from SD-RAM (IC104)
129 to 133	RD 13 to 9	I	Data bus 13 to 9 from SD-RAM (IC104)
134	DVSS	—	Terminal Ground
135	RD8	I	Data bus 8 from SD-RAM (IC104)
136	GPI0	—	Not Used
137	DQM1	O	DQM1 signal output to SD-RAM (IC104)
138	REW	O	WE signal output to SD-RAM (IC104)
139	CAS	O	CAS signal output to SD-RAM (IC104)
140	RAS	O	RAS signal output to SD-RAM (IC104)
141	DVDD3	—	Power Supply (+3.3V)
142	RCS	O	RCS signal output to SD-RAM (IC206)
143	BAO	0	BAO signal output to SD-RAM (IC206)
144	DVSS	—	Terminal Ground
145	BA1	O	BA1 signal output to SD-RAM (IC104)
146	RA10	O	Address bus 10 output to SD-RAM (IC104)
147	RA0	O	Address bus 0 output to SD-RAM (IC104)
148	DVSS	—	Terminal Ground
149 to 151	RA 1 to 3	O	Address bus 1 to 3 output to SD-RAM (IC104)
152	DVDD18	—	Power Supply (+1.8V)
153	RVREF	I	Reference voltage
154	RCLKB	I	Dram clock
155	DVDD3	—	Power Supply (+3.3V)
156	RCLK	O	CLK signal output to SD-RAM (IC104)
157	CKE	O	CKE signal output to SD-RAM (IC104)
158 to 160	RA 11 to 8	O	Address bus 11 to 8 output to SD-RAM (IC104)
161	DVSS	—	Terminal Ground
162	RA7	O	Address bus 7 output to SD-RAM (IC104)
163	DVSS	—	Terminal Ground
164 to 166	RA 6 to 4	O	Address bus 6 to 4 output to SD-RAM (IC104)
167	DVDD3	—	Power Supply (+3.3V)
168	DISC/X	—	Not Used
169	RGB	O	RGB control signal output
170	XSMRST	—	Not Used
171	WODE	O	SI signal output to VIDEO AMP (IC201)
172	NT	—	Not Used
173	DVDD18	—	Power Supply (+1.8V)
174	EUR	—	Not Used
175	DVSS	—	Terminal Ground
176	LIMSW	O	LIMSW signal output to Optical pick-up

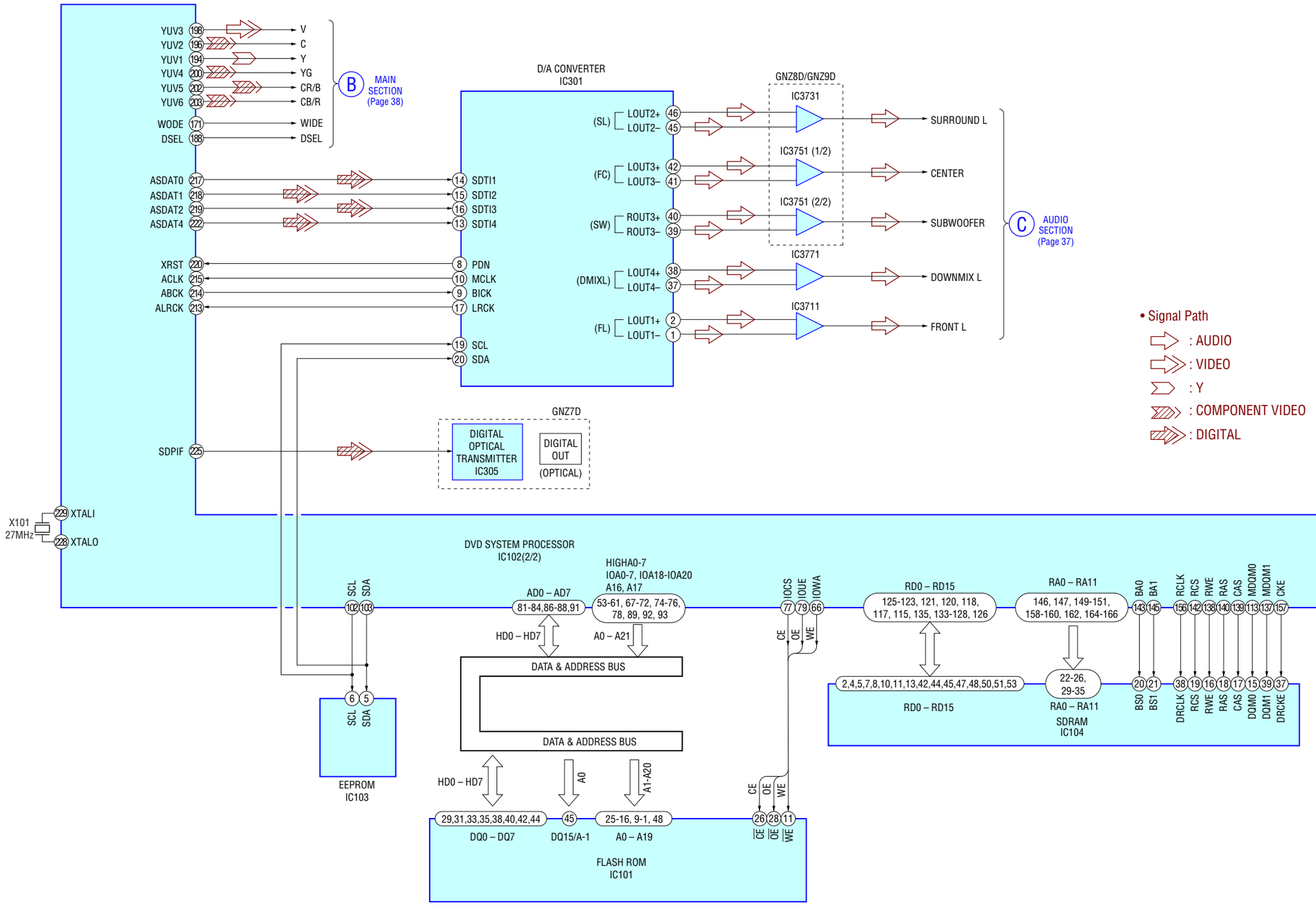
Pin No.	Pin Name	I/O	Description
177	OCSW	I	SEN signal input from System Controller (IC509)/OCSW signal input
178	VCLK	—	Not Used
179	CKSW	I	CKSW signal input
180	IO3	—	Not Used
181	TSDM	O	TSDM signal output to Motor driver (IC201)
182	DVDD3	—	Power Supply (+3.3V)
183	MUTE	O	MUTE signal output to Motor driver (IC201)
184	MUTE123	O	MUTE signal output to Motor driver (IC201)
185	REW	O	REV signal output to Motor driver (IC201)
186	FWD	O	FWD signal output to Motor driver (IC201)
187	MSW	O	Volume control signal output to Optical pick-up
188	DSEL	O	Select signal output
189	DAVCC	—	Power Supply (+3.3V)
190	VREF	I	Bandgap reference voltage (not used)
191	FS	O	Full scale adjustment (pull down)
192	YUV0	—	Not Used
193	DVSS	—	Terminal Ground
194	YUV1	O	Y signal output to VIDEO AMP (IC201)
195	DAVDD	—	Power Supply (+3.3V)
196	YUV2	O	CHROMA signal output to VIDEO AMP (IC201)
197	DVSS	—	Terminal Ground
198	YUV3	O	VIDEO signal output to VIDEO AMP (IC201)
199	DAVDD	—	Power Supply (+3.3V)
200	YUV4	O	G signal output to VIDEO AMP (IC201)
201	DVSS	—	Terminal Ground
202	YUV5	O	B signal output to VIDEO AMP (IC201)
203	YUV6	O	R signal output to VIDEO AMP (IC201)
204	DVDD3	—	Power Supply (+3.3V)
205	MIC/VSYNC	—	Not Used
206	VOICE/YUV7	—	Not Used
207	KRMOB/HSYNC	—	Not Used
208	SMSCK	—	Not Used
209	SPDATA/SMSDI	I	Audio data of SPDIF input
210	SMSDO	—	Not Used
211	XSMCS	—	Not Used
212	DVDD3	—	Power Supply (+3.3V)
213	ALRCK	I	Audio left/right channel clock
214	ABCK	O	Audio bit clock
215	ACLK	I	Audio DAC master clock
216	DVSS	—	Terminal Ground
217	ASDATA0	O	Auio serial data
218	ASDATA1	O	Auio serial data
219	ASDATA2	O	Auio serial data
220	XRST	—	Not Used
221	DVDD18	—	Power Supply (+1.8V)
222	ASDATA4	O	Auio serial data (not used)
223	DVSS	—	Terminal Ground
224	DWIDE	—	Not Used
225	SDPIF	—	SPDIF output (not used)
226	RFGND18	—	Terminal Ground

Pin No.	Pin Name	I/O	Description
227	RFVDD18	—	Power Supply (+1.8V)
228	ZTALO	O	Oscillator output signal
229	ZTALI	I	Oscillator input signal
230	JITFO	O	RF jitter meter output
231	JITFN	I	Negative input of operation amplifier for RF jigger meter
232	PLLVSS	—	Terminal Ground
233	IDAC	—	Not Used
234	PLLVDD3	—	Power Supply (+3.3V)
235	LPFON	O	Negative output of loop filter amplifier
236	LPFIP	I	Positive input of loop filter amplifier
237	LPFIN	I	Negative input of loop filter amplifier
238	LPFOP	O	Positive output of loop filter amplifier
239	VDD3	I	Power Supply (+3.3V)
240	VCM	I	SACD-Common mode Reference
241	VSS	—	Terminal Ground
242	VREEP	I	SACD-TOP Reference
243	VREEN	I	SACD-Bottom Reference
244	RFVDD3	—	Power Supply (+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	—	Terminal Ground
250	CEQP	O	EQ offset loop capacitance (not used)
251	CEQN	O	EQ offset loop capacitance (not used)
252	OSP	O	RF offset cancellation capacitor connecting
253	OSN	I	RF offset cancellation capacitor connecting
254	RFGC	O	RF offset loop capacitor connecting for DVD-ROM
255	IREF	I	Current reference input
256	AVDD3	—	Power Supply (+3.3V)

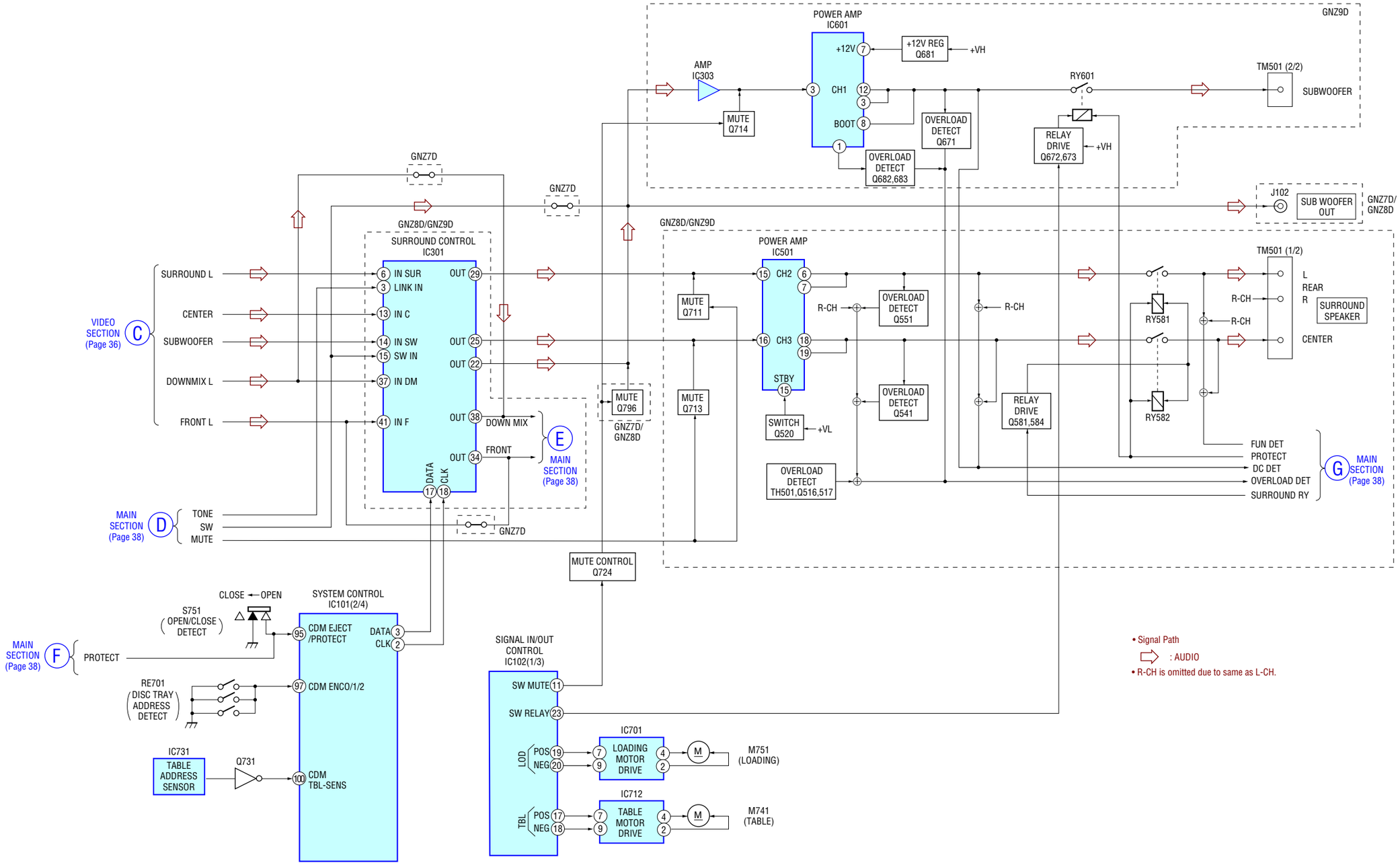
7-1. BLOCK DIAGRAM — RF/SERVO SECTION —



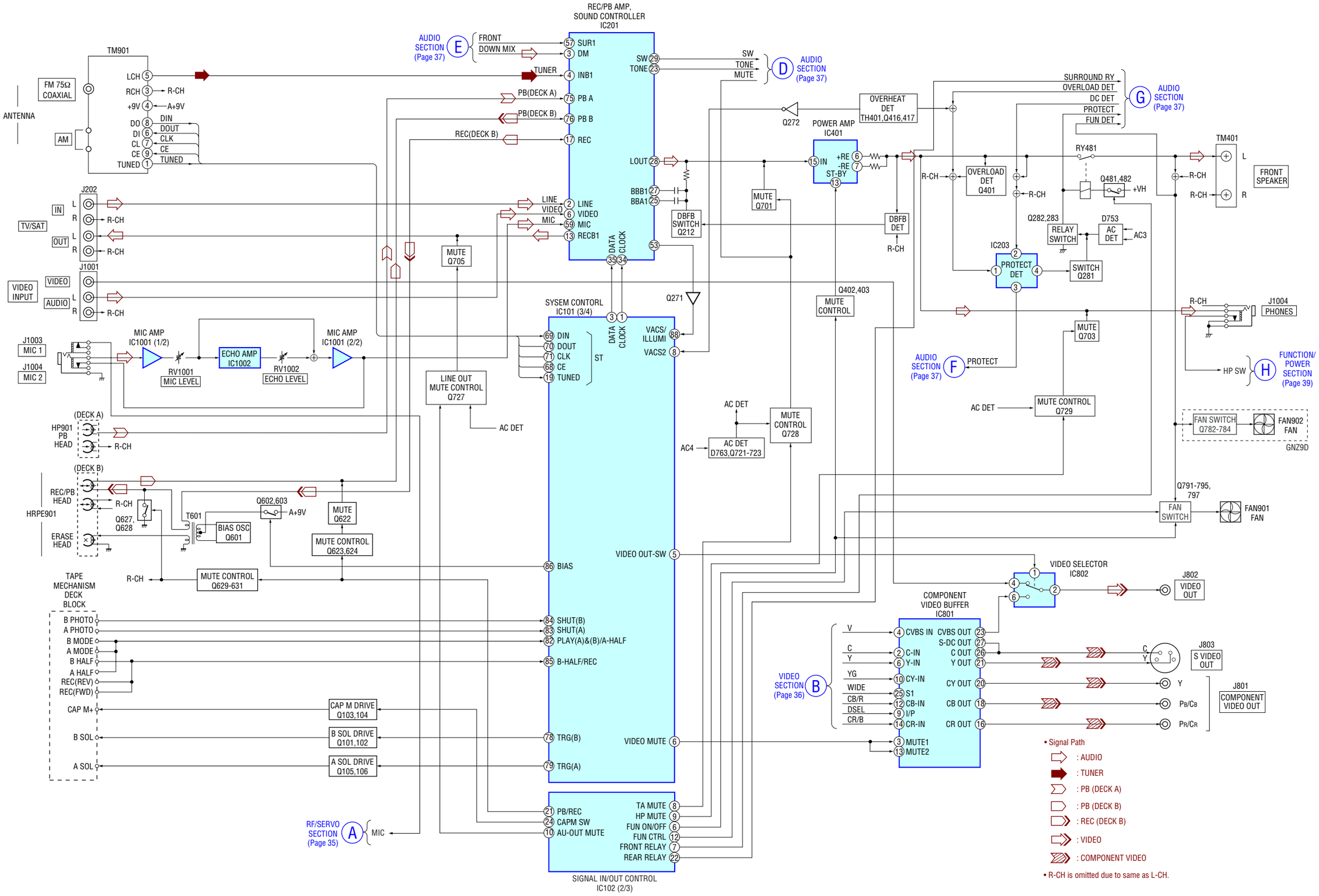
7-2. BLOCK DIAGRAM — VIDEO SECTION —



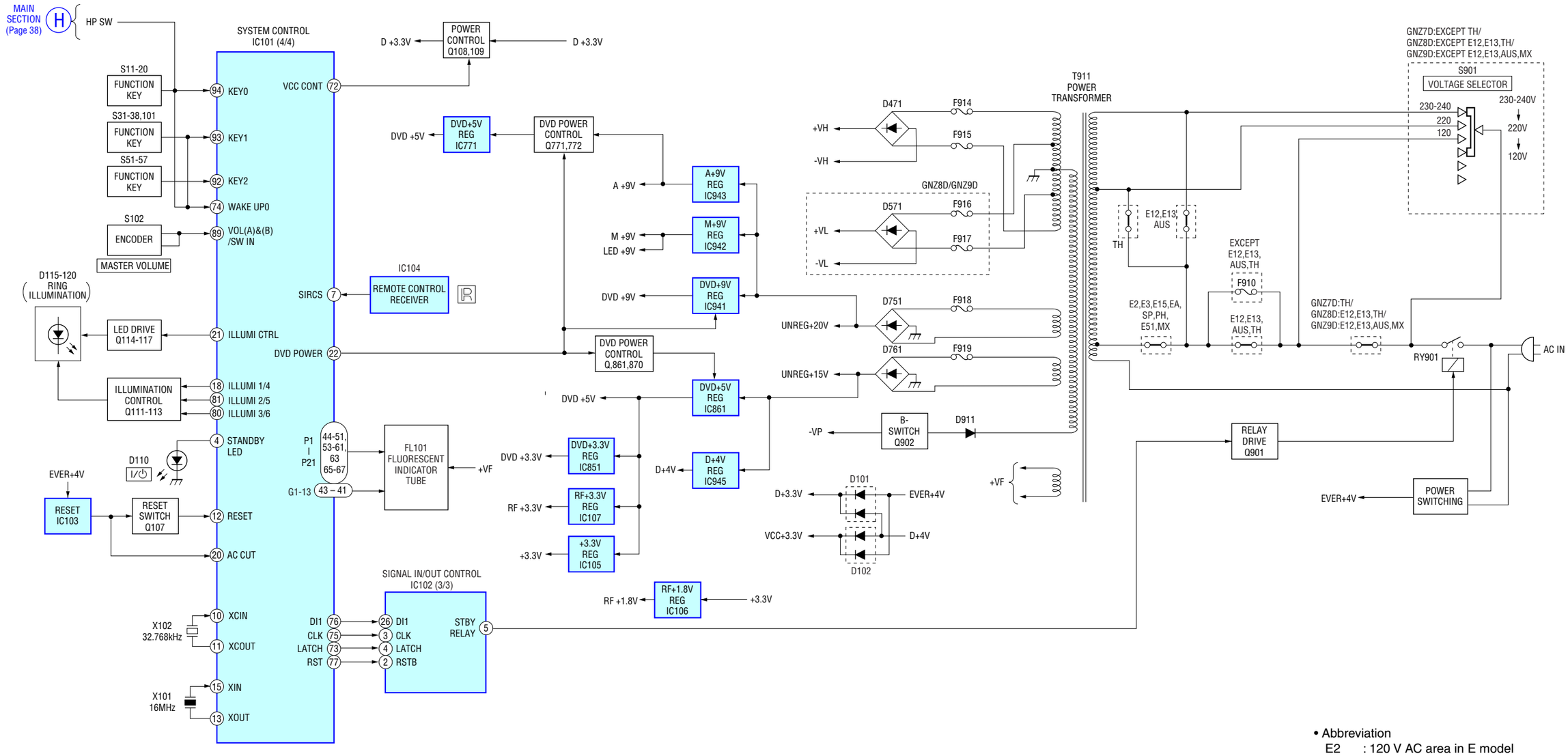
7-3. BLOCK DIAGRAM — AUDIO SECTION —



7-4. BLOCK DIAGRAM — MAIN SECTION —



7-5. BLOCK DIAGRAM — FUNCTION/POWER SECTION —



• Abbreviation
- E2 : 120 V AC area in E model
- E3 : 240 V AC area in E model
- E12 : 220-240 V AC area in E model
- E13 : 220-230 V AC area in E model
- E15 : Iran model
- E51 : Chilean and Peruvian model
- AUS : Australian model
- EA : Saudi arabia model
- PH : Philippine model
- SP : Singapore model
- MX : Mexican model
- TH : Thai model

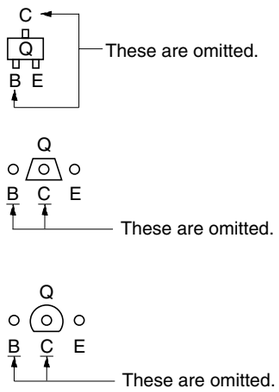
• Note For Printed Wiring Boards And Schematic Diagrams

Note on Printed Wiring Board:

- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ▬ : Pattern from the side which enables seeing.
  (The other layer's patterns are not indicated.)

Caution:	
Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

- Indication of transistor.



UNLEADED SOLDER

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

: LEAD FREE MARK

Unleaded solder has the following characteristics.

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

Note on Schematic Diagram:

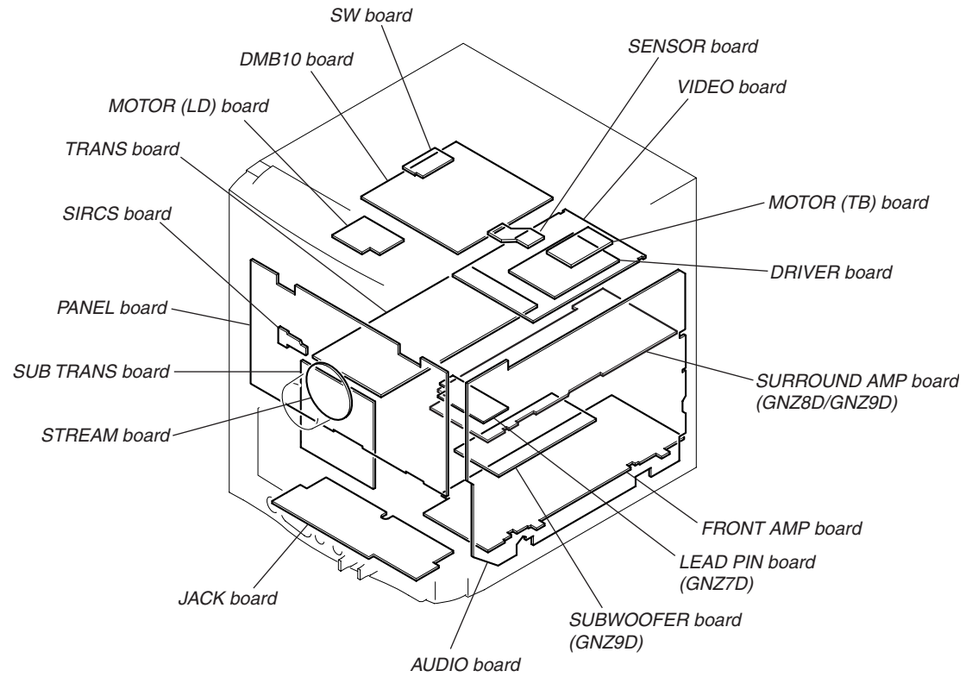
- All capacitors are in μF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- : nonflammable resistor.
- : panel designation.

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

- ▬▬ : B+ Line.
- ▬ ▬ ▬ : B– Line.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ∗ : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 MΩ). 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
  : VIDEO (COMPONENT)
  : VIDEO (COMPOSITE)
  : TAPE PLAY (DECK A)
  : TAPE PLAY (DECK B)
  : TAPE REC (DECK B)
  : DVD (AUDIO)
  : DVD (RF)
  : DVD (DIGITAL)
- Abbreviation

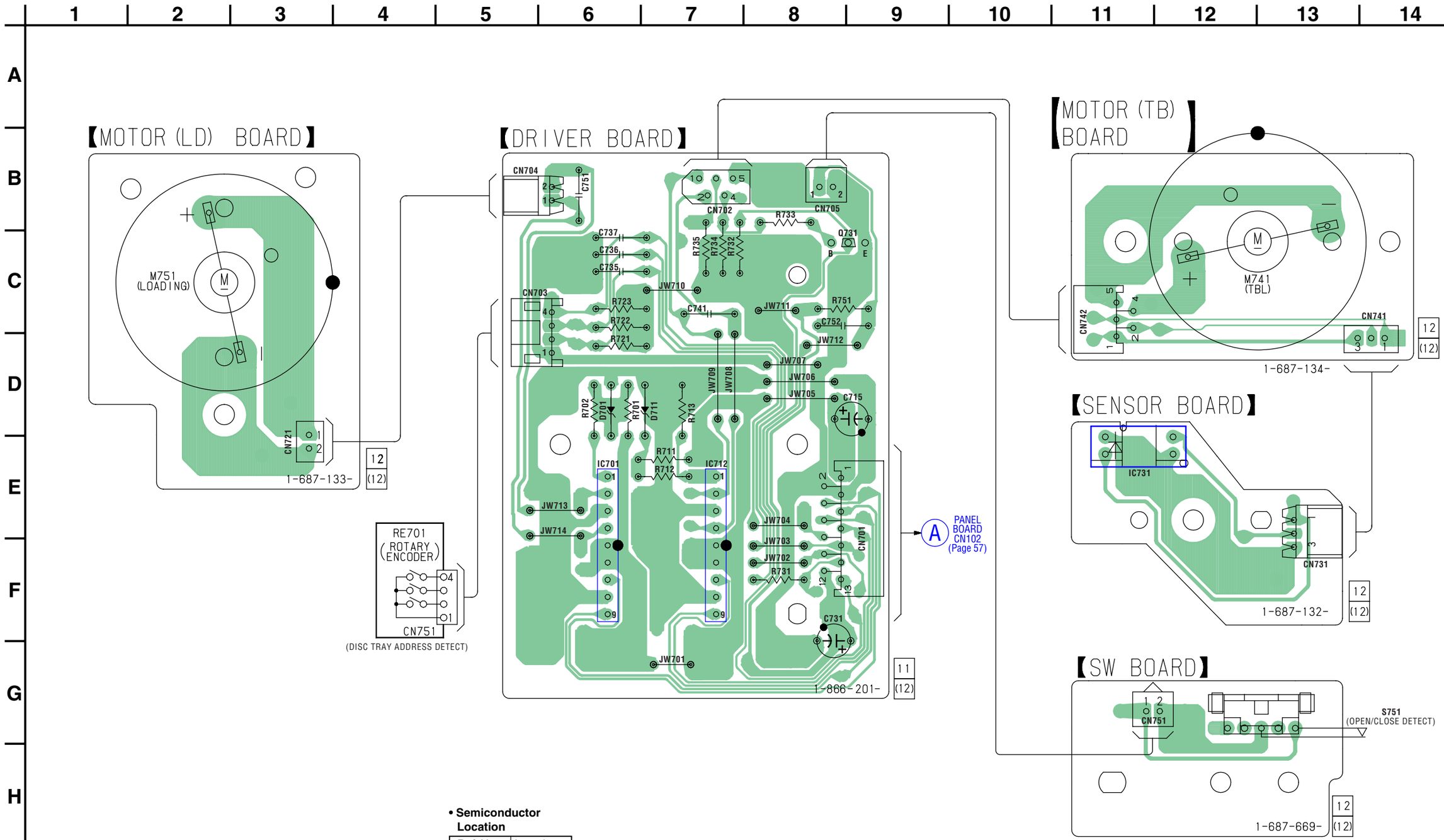
E2	: 120 V AC area in E model
E3	: 240 V AC area in E model
E12	: 220-240 V AC area in E model
E13	: 220-230 V AC area in E model
E15	: Iran model
E51	: Chilean and Peruvian model
AUS	: Australian model
EA	: Saudi arabia model
PH	: Philippine model
SP	: Singapore model
MX	: Mexican model
TH	: Thai model

• Circuit Boards Location



7-6. PRINTED WIRING BOARDS — DRIVER SECTION —

• Refer to page 40 for Circuit Boards Location. : Uses unleaded solder.

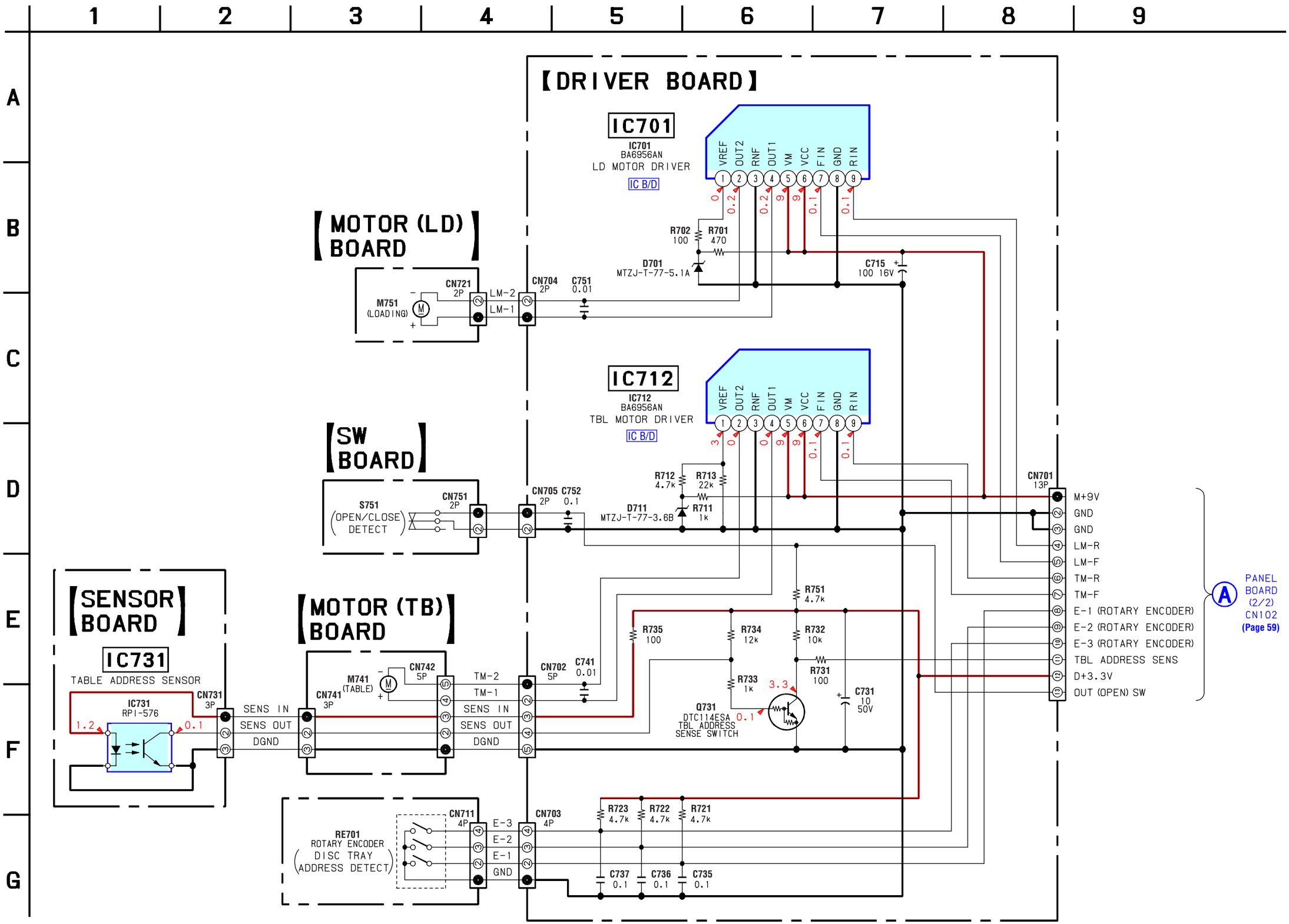


• **Semiconductor Location**

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

7-7. SCHEMATIC DIAGRAM — DRIVER SECTION —

• See page 70 for IC Block Diagrams.

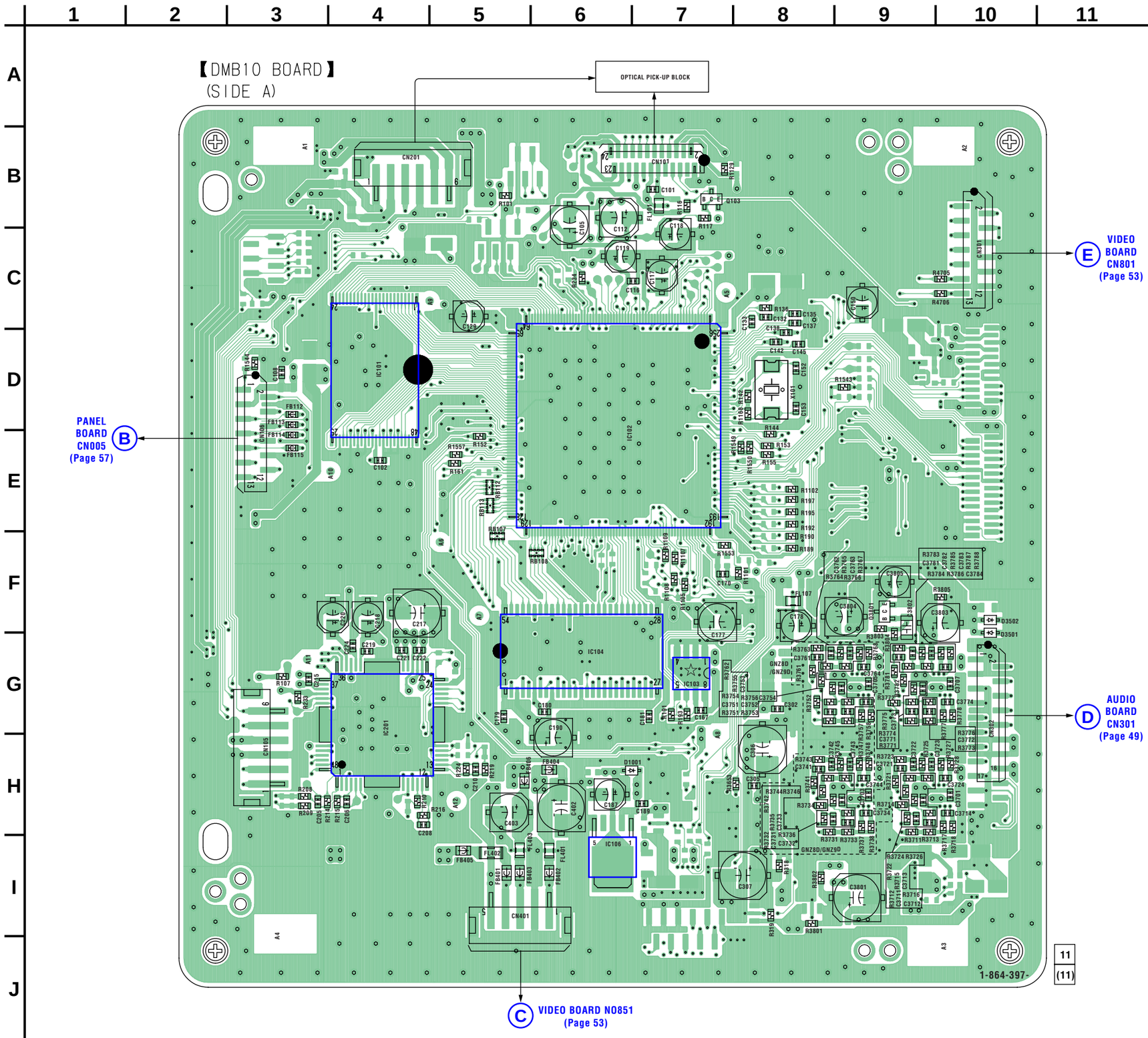


☆ New part of EEP ROM (IC103) on the DMB10 board cannot be used. Therefore, if the mounted DMB10 board (A-1095-784-A, etc.) is replaced, exchange new EEP ROM (IC103) with that used before the replacement.

7-8. PRINTED WIRING BOARD — DMB10 SECTION (SIDE A) —

• Refer to page 40 for Circuit Boards Location.

: Uses unleaded solder.



• **Semiconductor Location**

Ref. No.	Location
D1001	H-6
D3501	F-10
D3502	F-10
IC101	D-4
IC102	E-6
IC103	G-7
IC104	G-6
(IC105)	C-5
IC106	I-6
(IC107)	C-8
IC201	G-4
(IC301)	H-8
(IC3711)	H-10
(IC3731)	H-9
(IC3751)	G-9
(IC3771)	G-10
(Q101)	B-7
(Q102)	B-6
Q103	B-7
Q3801	F-9

( ): SIDE B

7-9. PRINTED WIRING BOARD — DMB10 SECTION (SIDE B) —

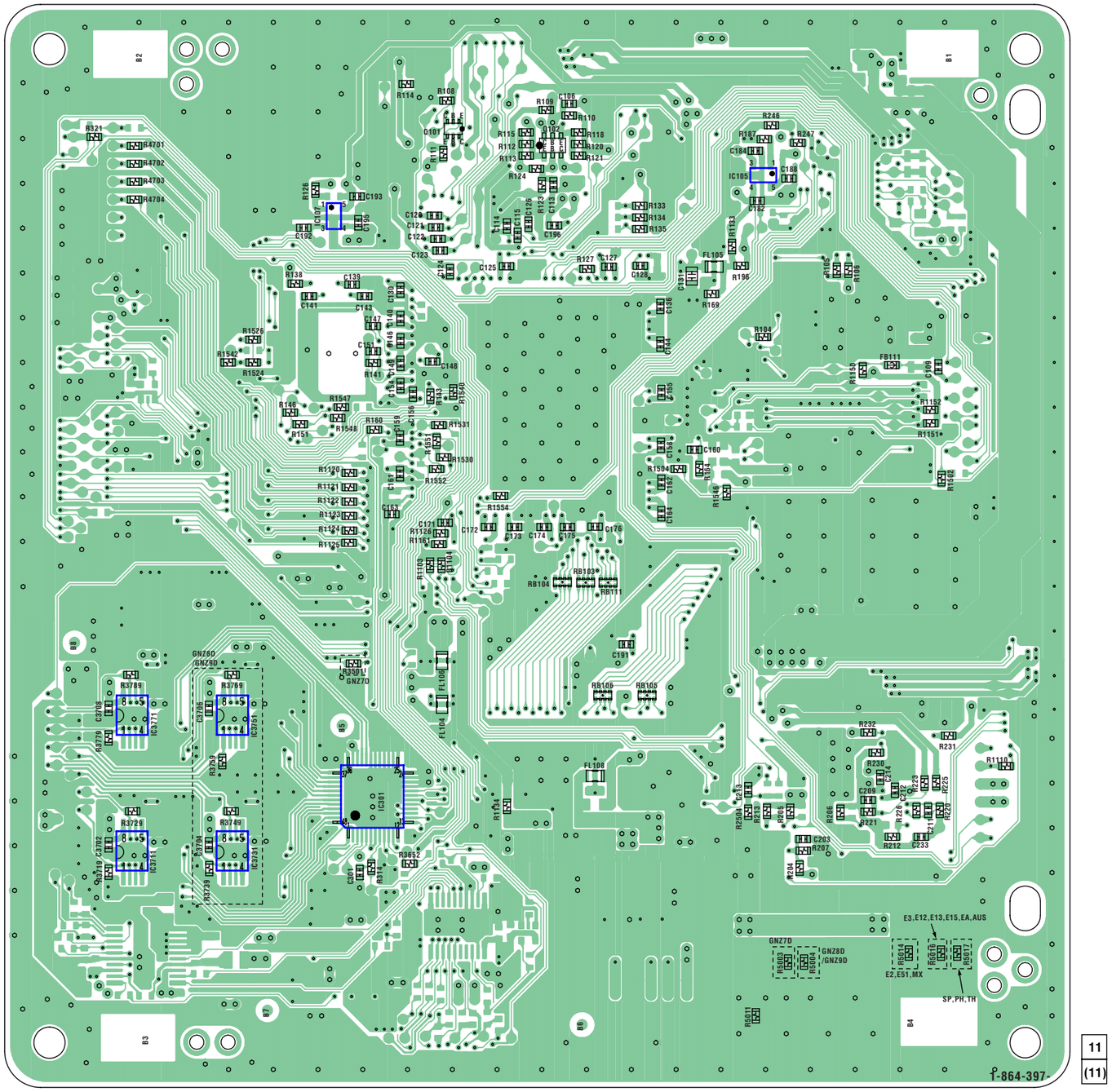
• Refer to page 40 for Circuit Boards Location.

: Uses unleaded solder.

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

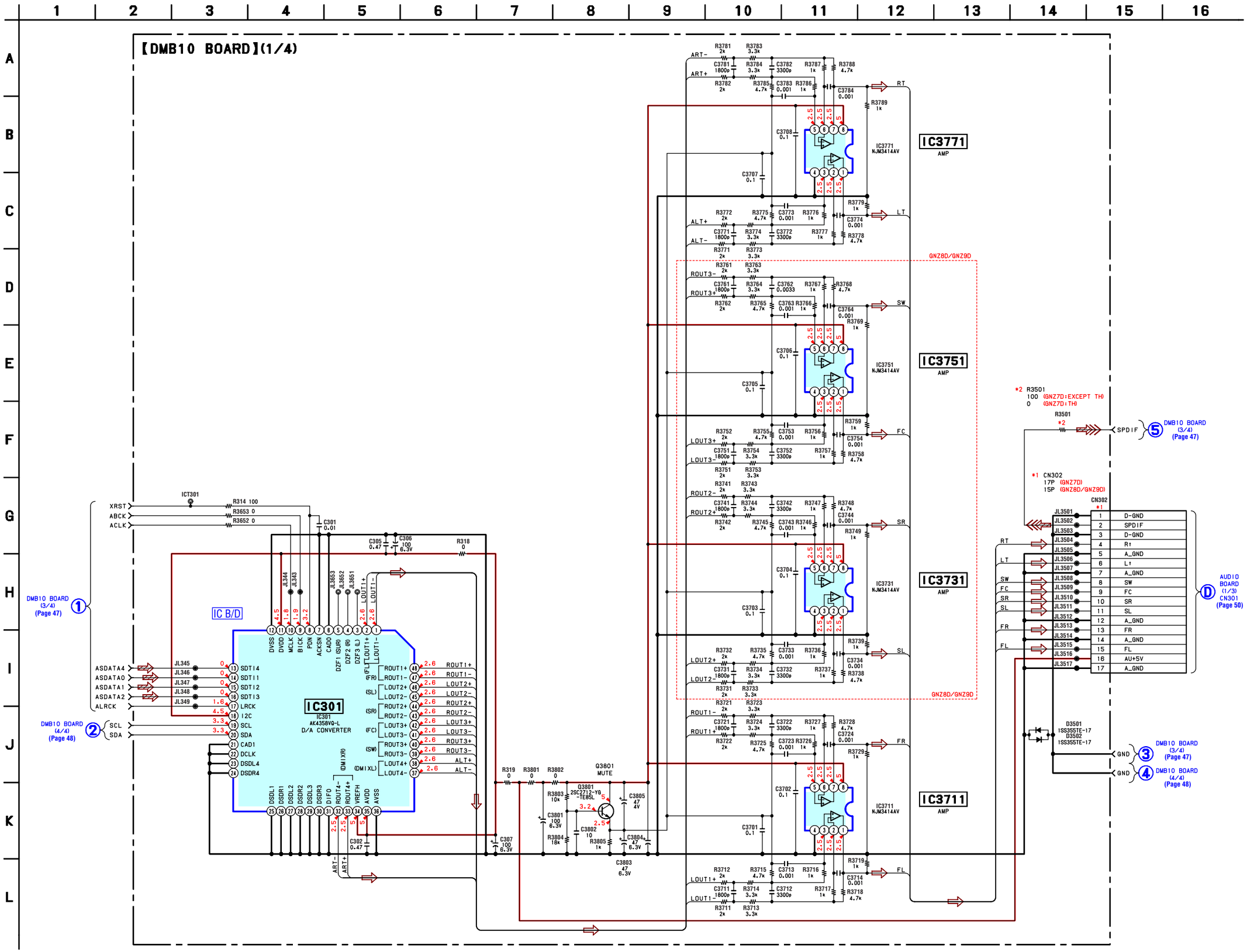
A B C D E F G H I J

【DMB10 BOARD】
(SIDE B)

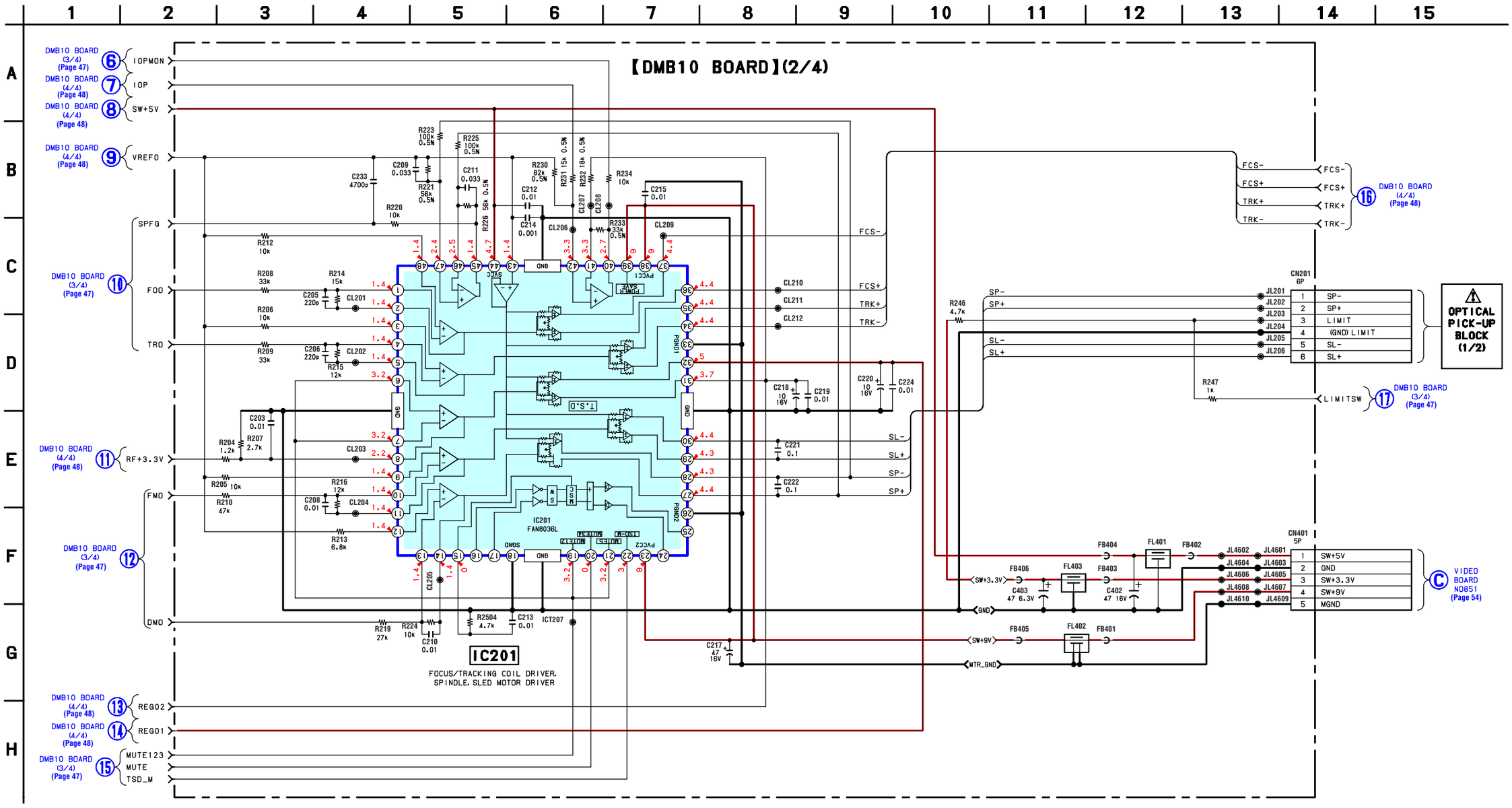


7-10. SCHEMATIC DIAGRAM — DMB10 SECTION (1/4) —

• See page 70 for IC Block Diagrams.

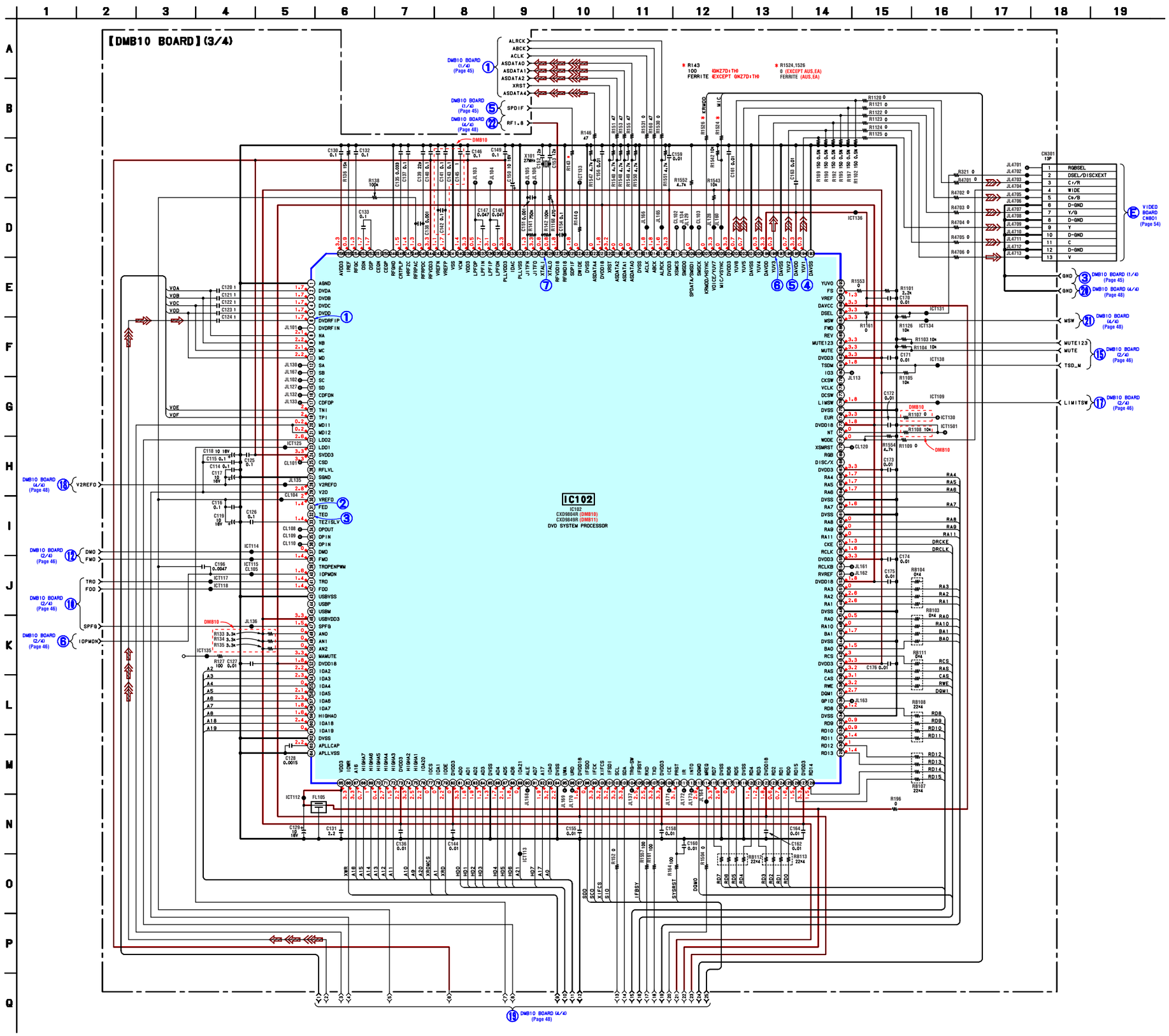


7-11. SCHEMATIC DIAGRAM — DMB10 SECTION (2/4) —



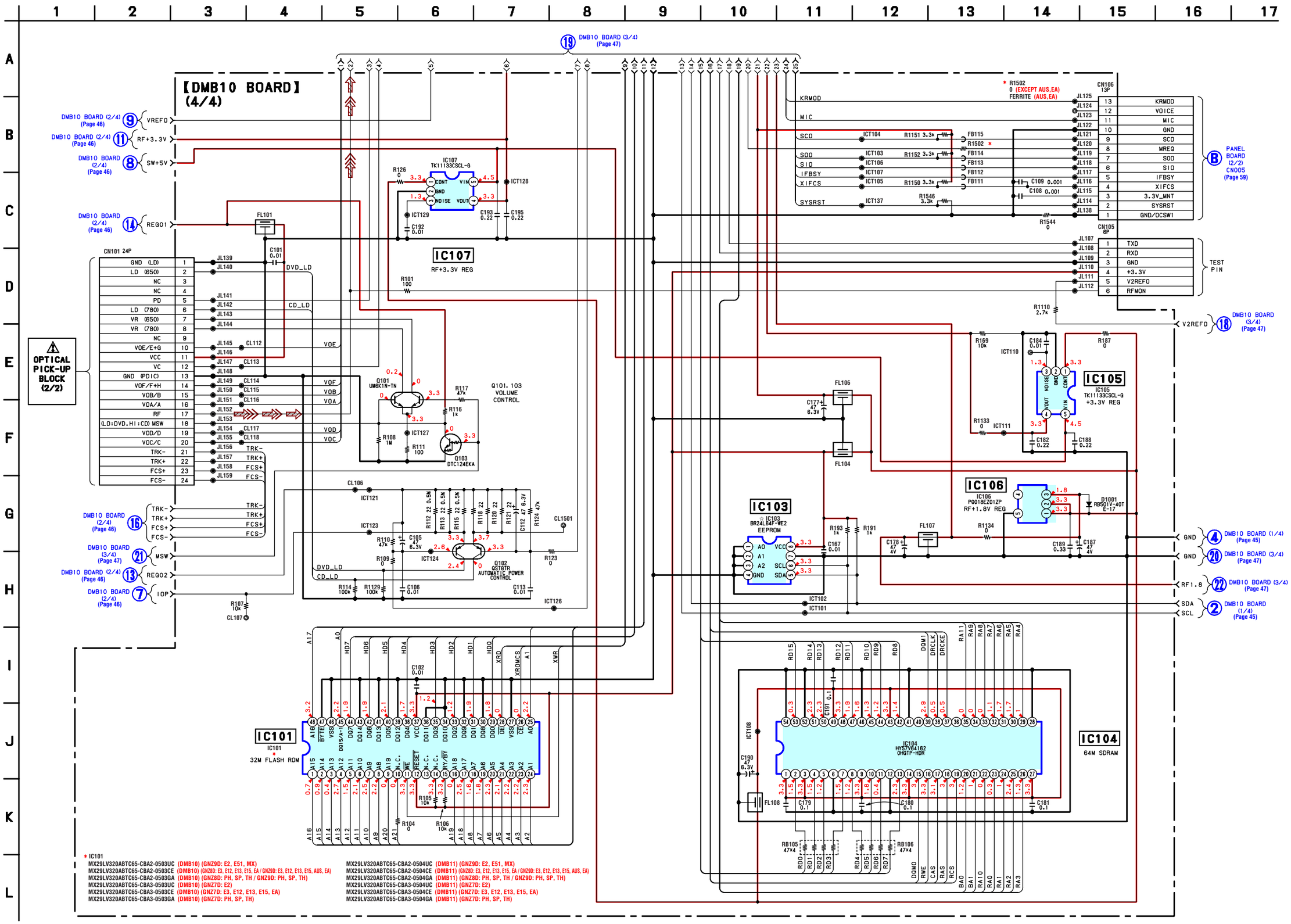
7-12. SCHEMATIC DIAGRAM — DMB10 SECTION (3/4) —

• See page 69 for Waveforms. • See page 30 for IC Pin Function Description.



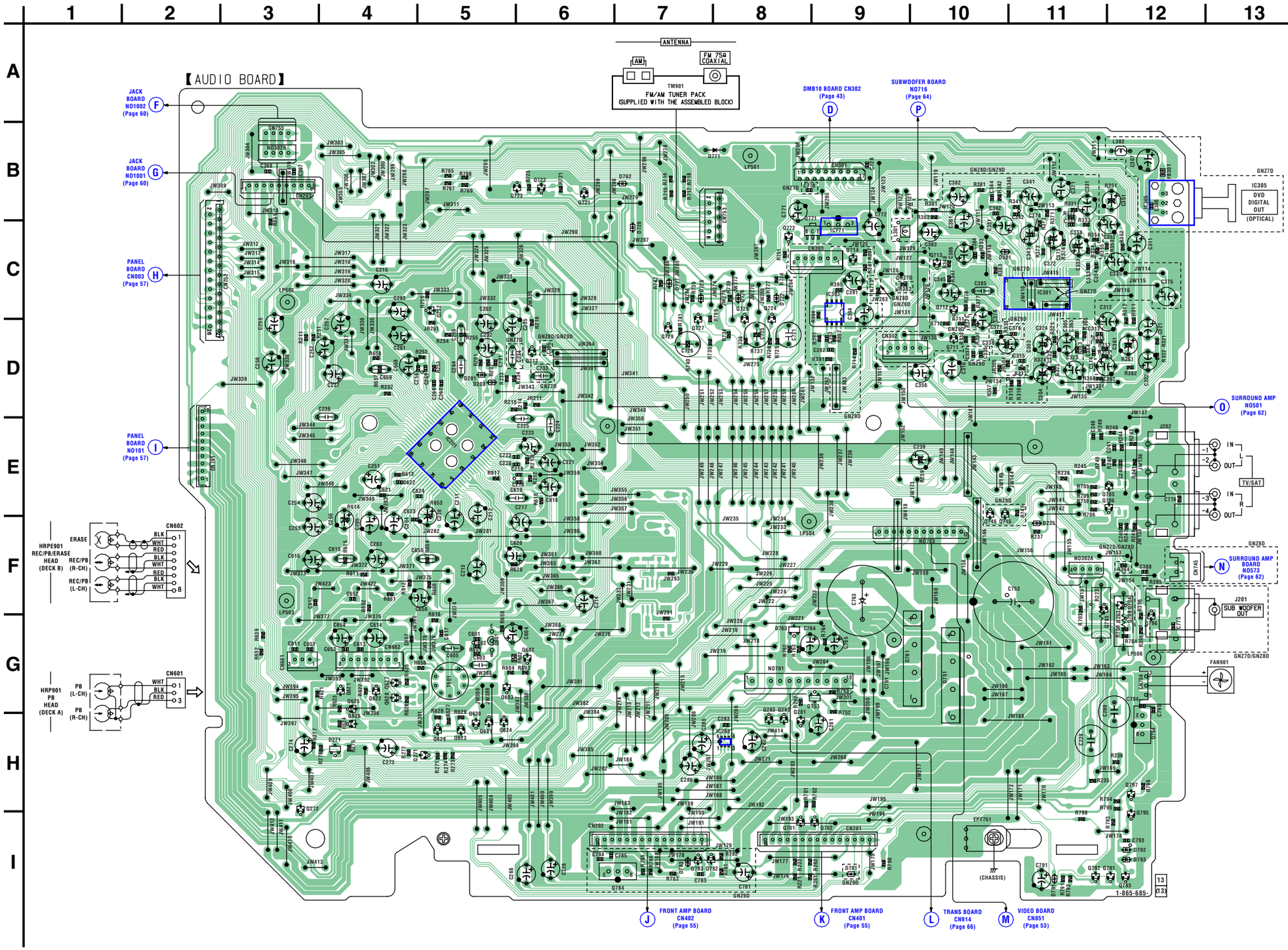
7-13. SCHEMATIC DIAGRAM — DMB10 SECTION (4/4) —

☆ New part of EEP ROM (IC103) on the DMB10 board or DMB11 board cannot be used. Therefore, if the mounted DMB10 board (A-1095-784-A, etc.) is replaced, exchange new EEP ROM (IC103) with that used before the replacement.



7-14. PRINTED WIRING BOARD — AUDIO SECTION —

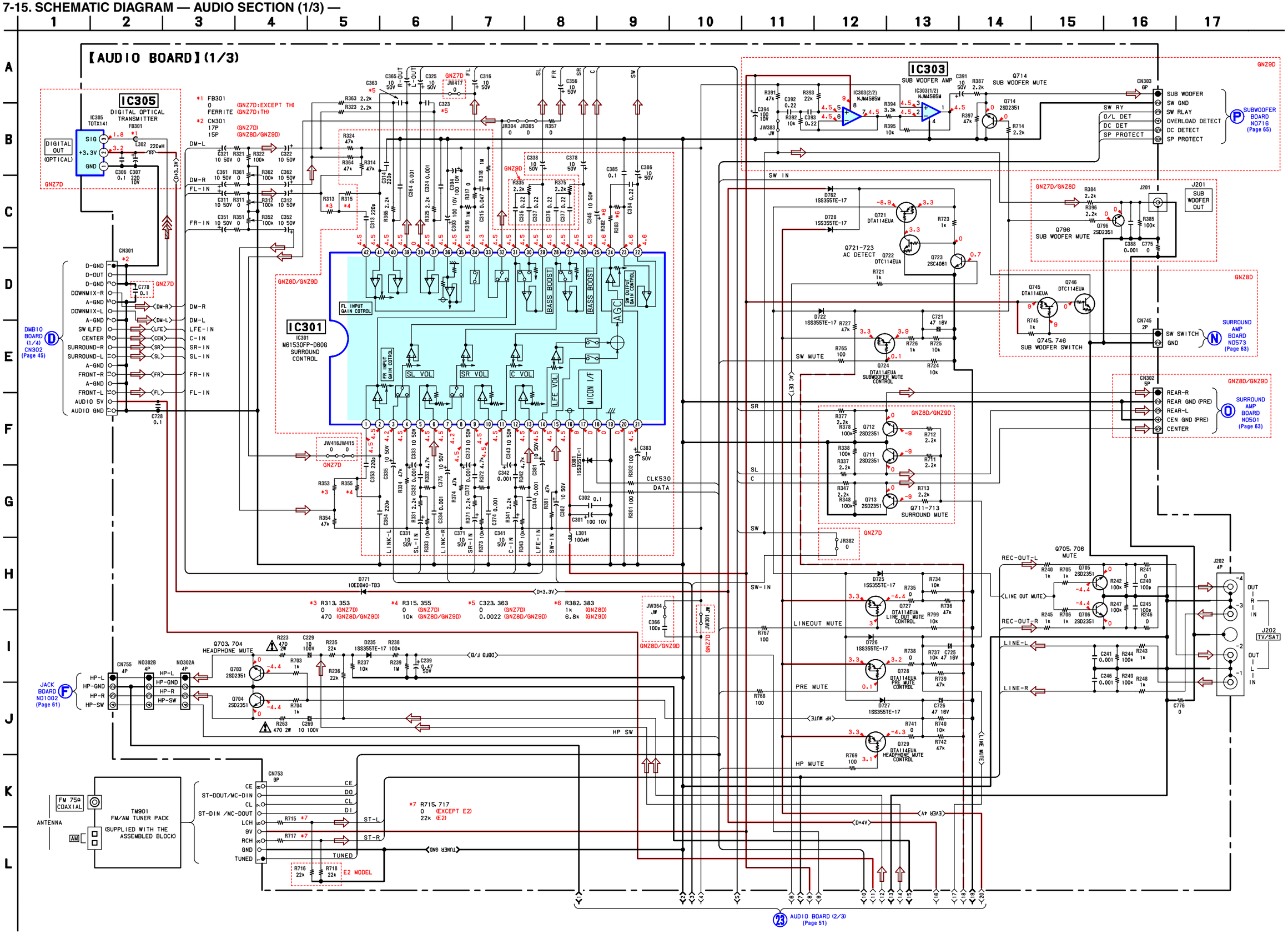
• Refer to page 40 for Circuit Boards Location. : Uses unleaded solder.



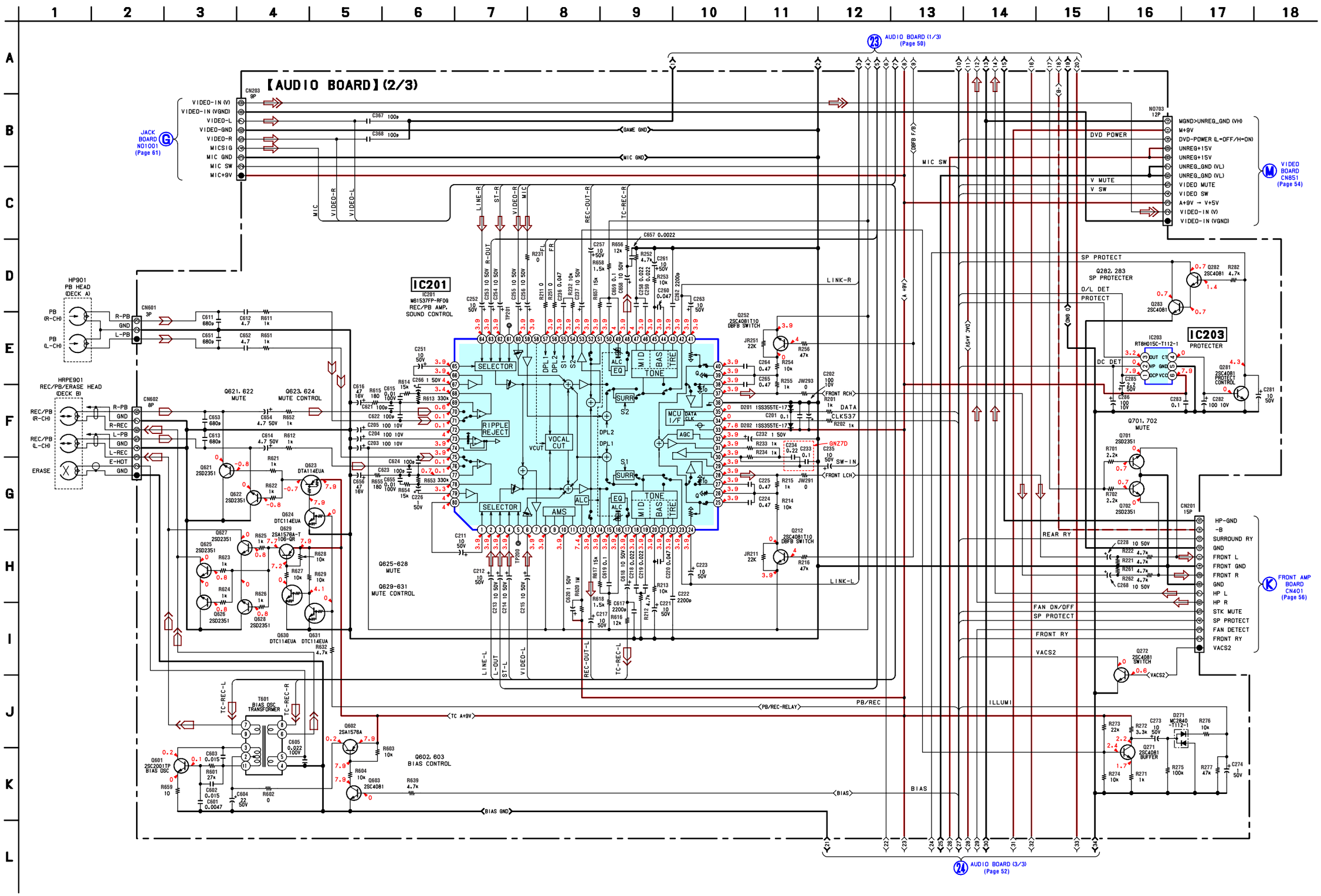
• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D201	D-5	Q623	H-5
D202	D-5	Q624	H-5
D235	F-11	Q625	G-4
D271	H-4	Q626	H-4
D301	C-10	Q627	G-4
D722	C-8	Q628	G-4
D725	C-7	Q629	H-5
D726	C-8	Q630	H-5
D727	C-7	Q631	H-5
D728	C-7	Q701	I-8
D751	G-10	Q702	I-9
D753	G-9	Q703	G-11
D761	G-9	Q704	F-12
D762	B-7	Q705	E-11
D763	G-8	Q706	E-11
D771	B-8	Q711	D-10
D781	I-9	Q712	C-10
D783	I-7	Q713	C-10
D791	I-11	Q714	C-9
D792	I-12	Q721	B-6
D793	I-12	Q722	B-6
		Q723	B-5
IC201	E-5	Q724	C-8
IC203	H-8	Q727	D-7
IC301	C-11	Q728	C-8
IC303	C-9	Q729	D-7
IC305	B-12	Q745	F-10
IC771	C-9	Q746	F-10
		Q771	C-8
Q212	D-6	Q772	C-8
Q252	C-5	Q782	I-7
Q271	H-5	Q783	I-7
Q272	H-3	Q784	I-7
Q281	H-8	Q791	I-12
Q282	H-8	Q792	I-11
Q283	H-8	Q793	I-12
Q601	G-5	Q794	H-12
Q602	G-6	Q795	I-12
Q603	G-5	Q796	G-12
Q621	G-4	Q797	H-12
Q622	G-4		

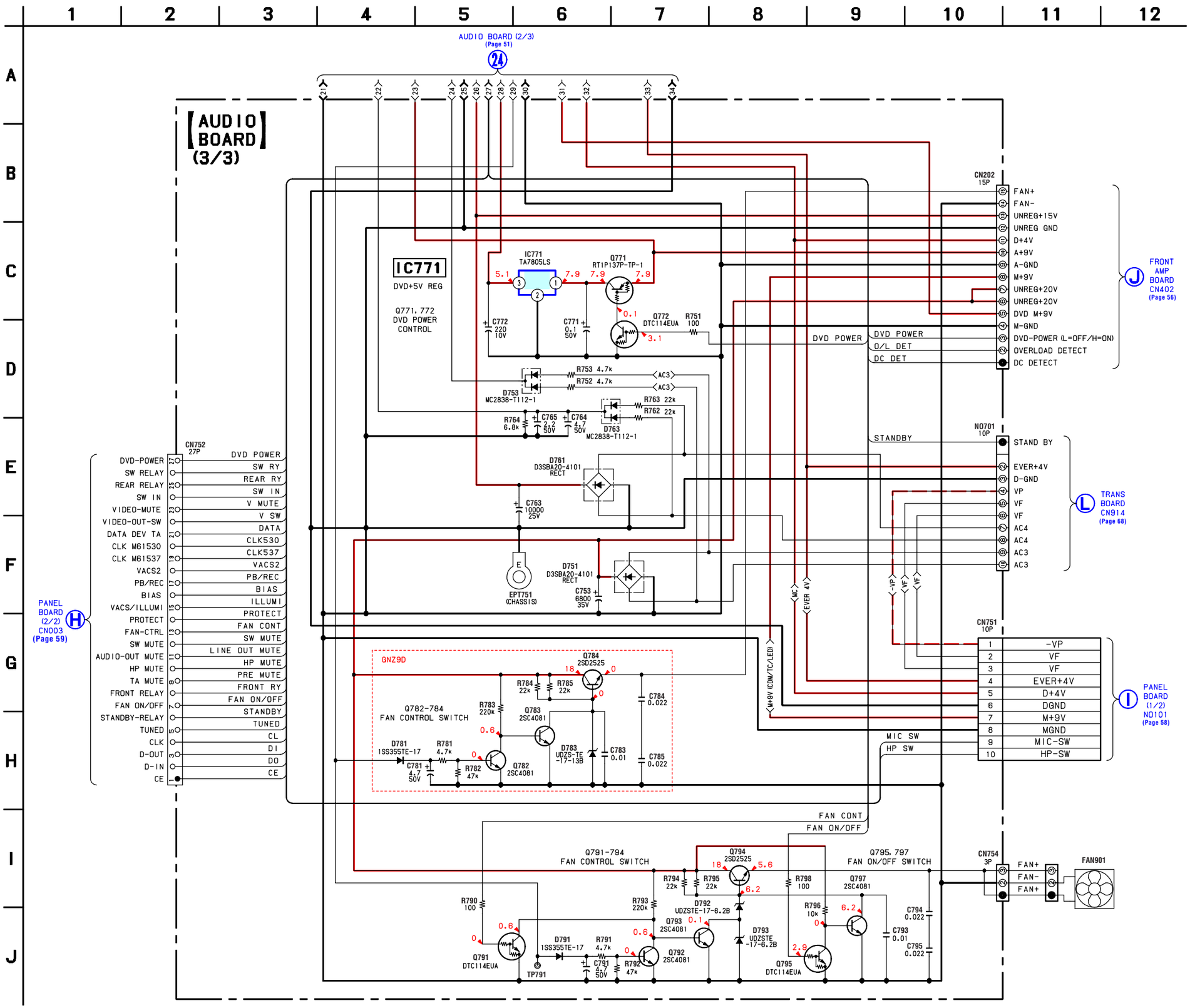
7-15. SCHEMATIC DIAGRAM — AUDIO SECTION (1/3) —



7-16. SCHEMATIC DIAGRAM — AUDIO SECTION (2/3) —



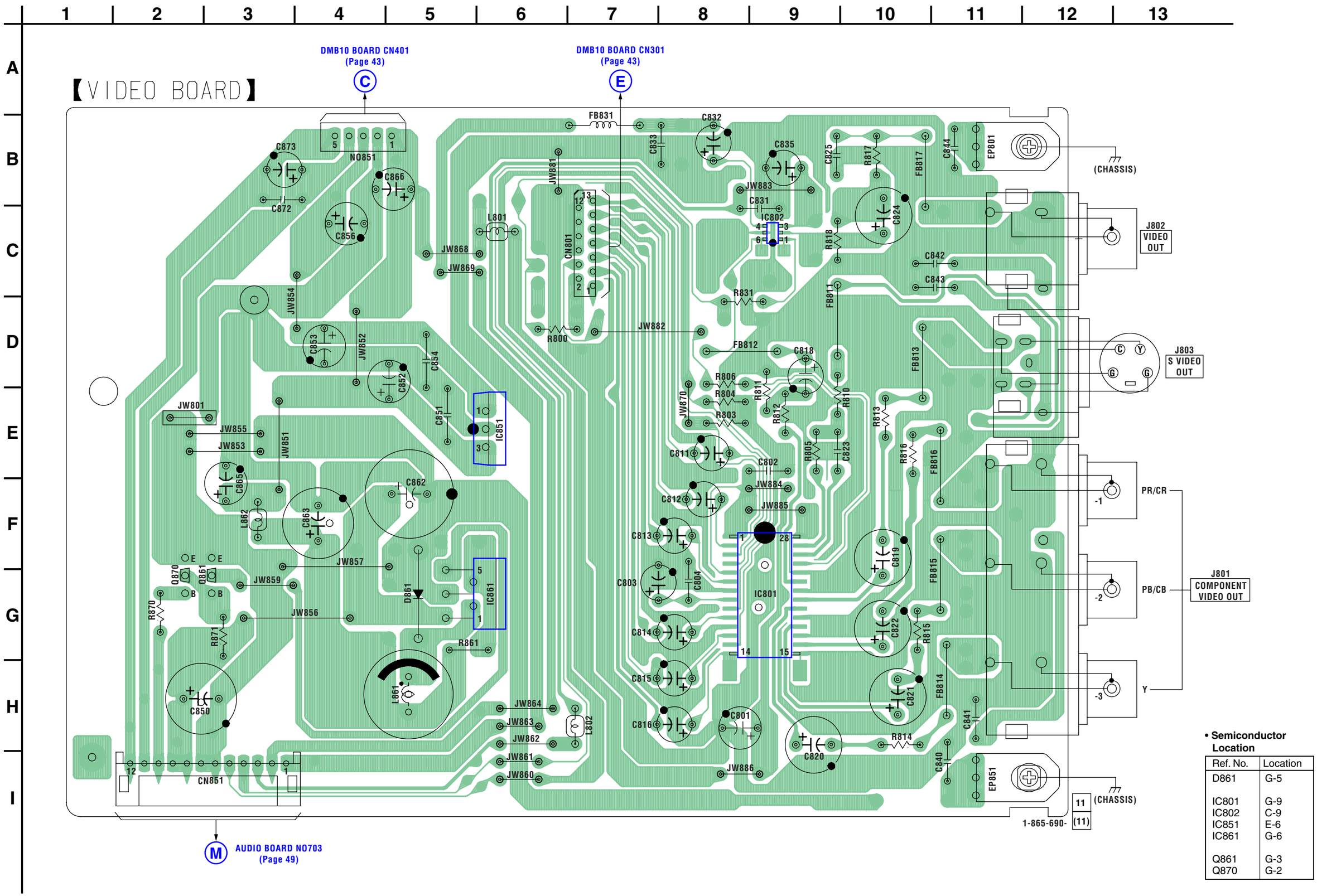
7-17. SCHEMATIC DIAGRAM — AUDIO SECTION (3/3) —



7-18. PRINTED WIRING BOARD — VIDEO SECTION —

• Refer to page 40 for Circuit Boards Location. : Uses unleaded solder.

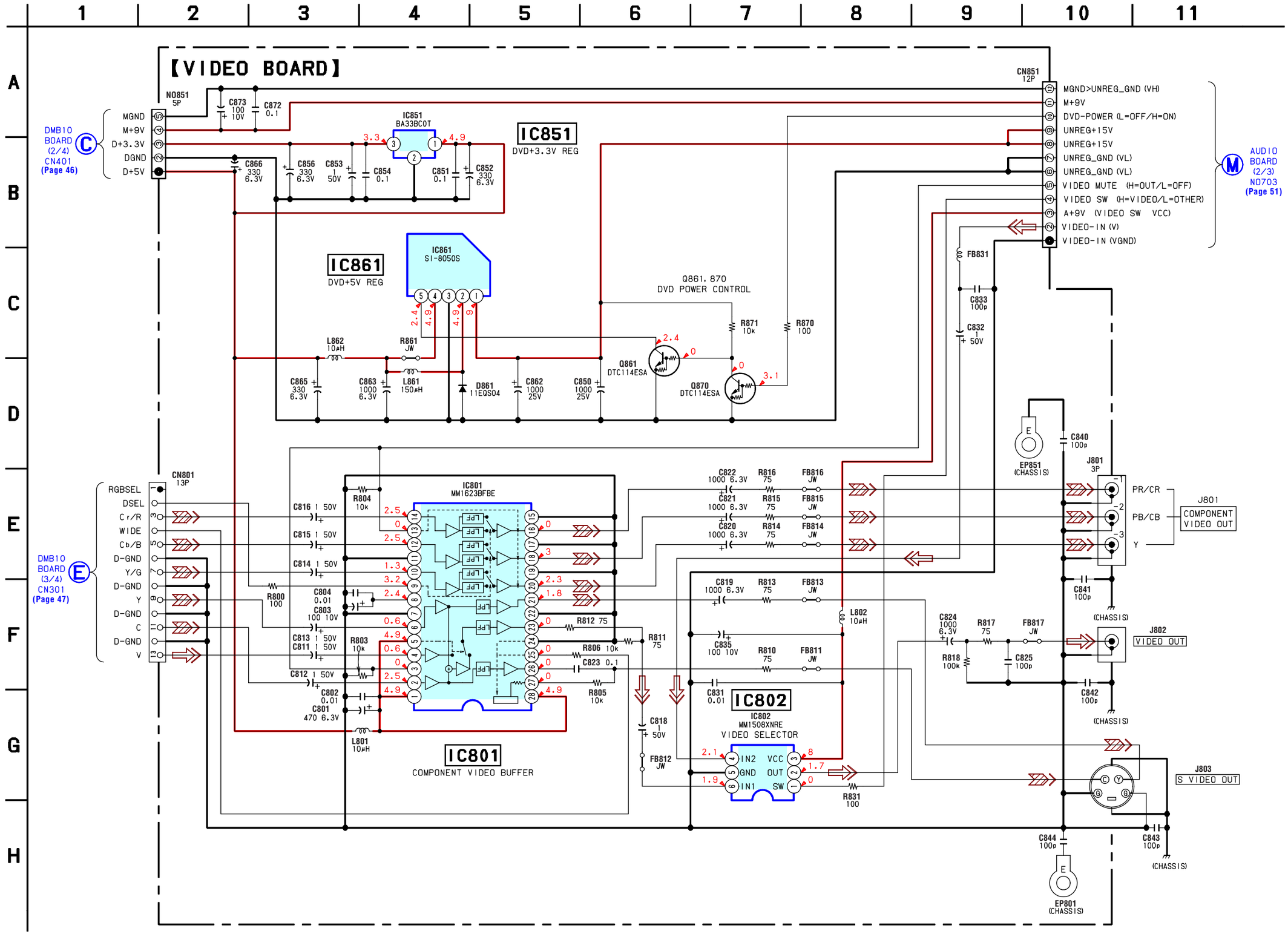
【VIDEO BOARD】



• **Semiconductor Location**

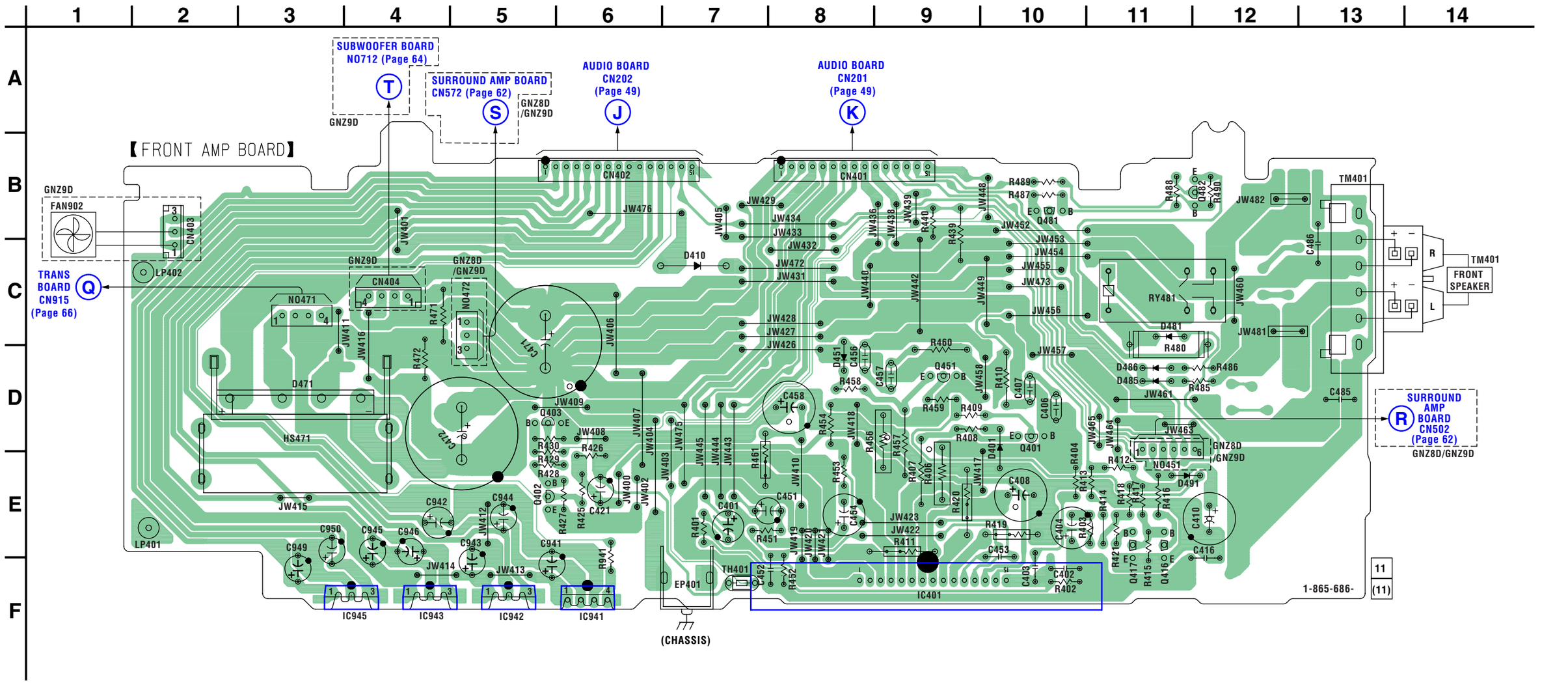
Ref. No.	Location
D861	G-5
IC801	G-9
IC802	C-9
IC851	E-6
IC861	G-6
Q861	G-3
Q870	G-2

7-19. SCHEMATIC DIAGRAM — VIDEO SECTION —



7-20. PRINTED WIRING BOARD — FRONT AMP SECTION —

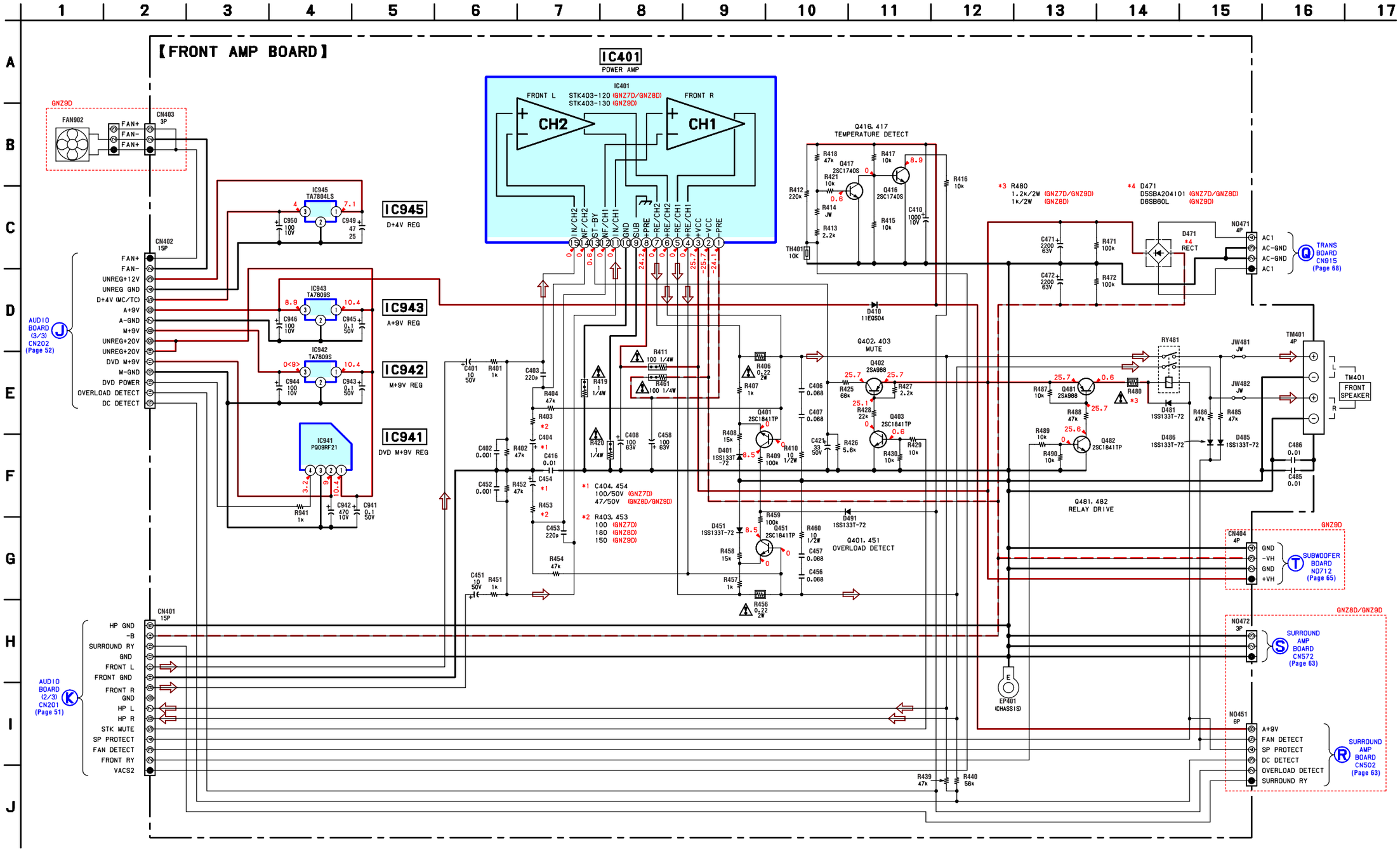
• Refer to page 40 for Circuit Boards Location. : Uses unleaded solder.



• **Semiconductor Location**

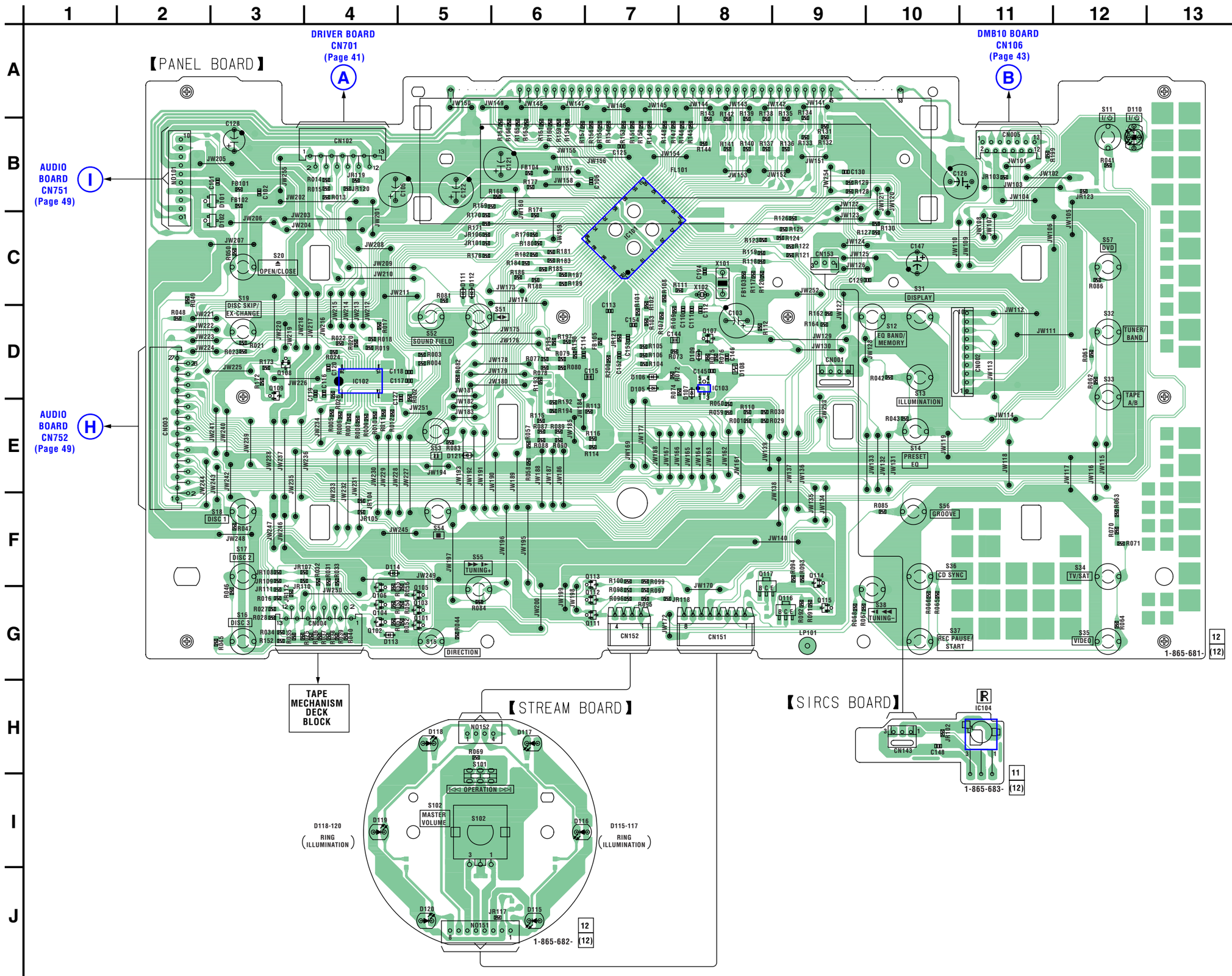
Ref. No.	Location	Ref. No.	Location
D401	D-10	IC943	F-4
D410	C-7	IC945	F-4
D451	D-8		
D471	D-3	Q401	D-10
D481	C-11	Q402	E-5
D485	D-11	Q403	D-5
D486	D-11	Q416	E-11
D491	E-11	Q417	E-11
		Q451	D-9
IC401	F-9	Q481	B-10
IC941	F-6	Q482	B-12
IC942	F-5		

7-21. SCHEMATIC DIAGRAM — FRONT AMP SECTION —



7-22. PRINTED WIRING BOARDS — PANEL SECTION —

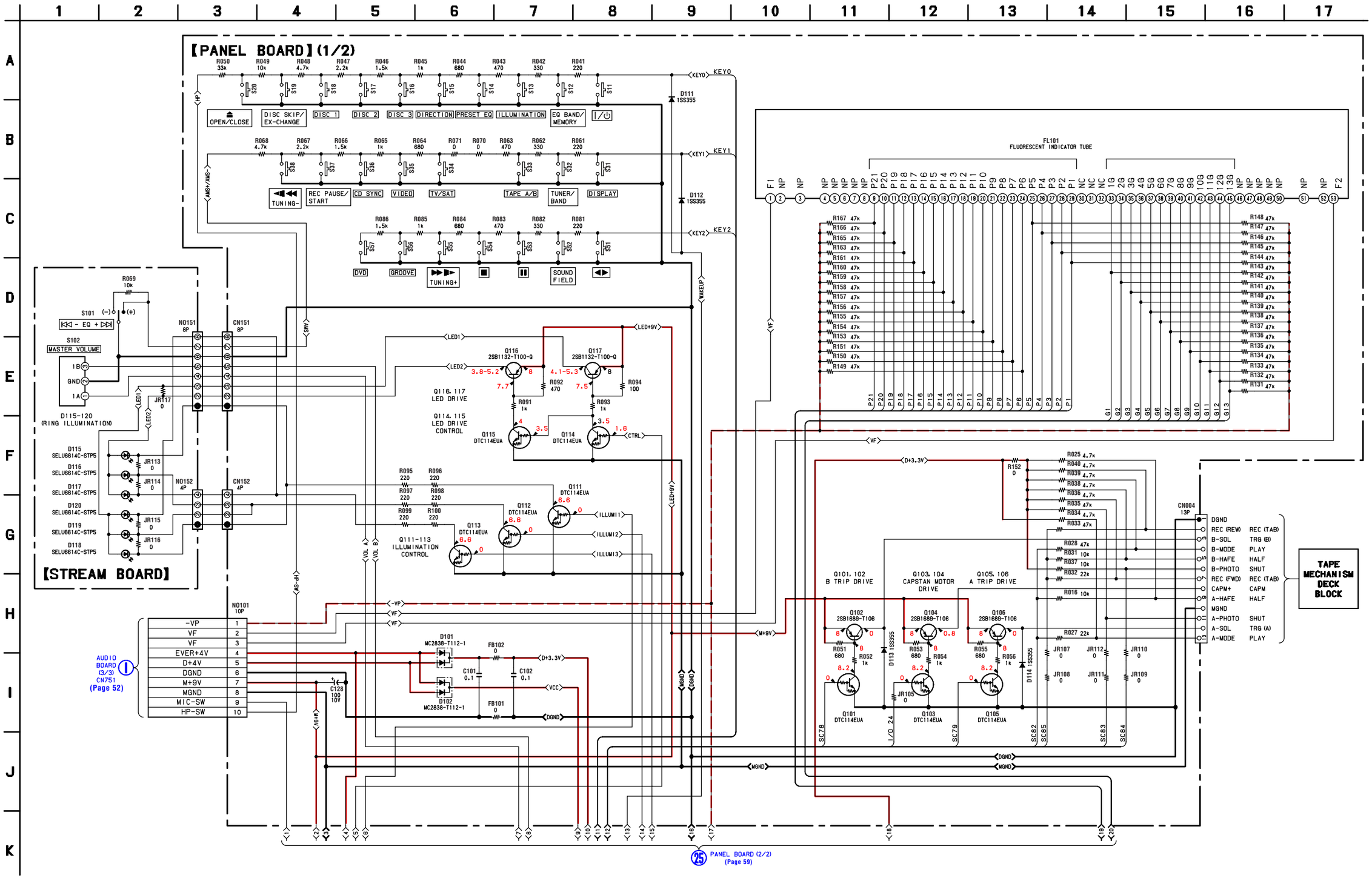
• Refer to page 40 for Circuit Boards Location. : Uses unleaded solder.



• **Semiconductor Location**

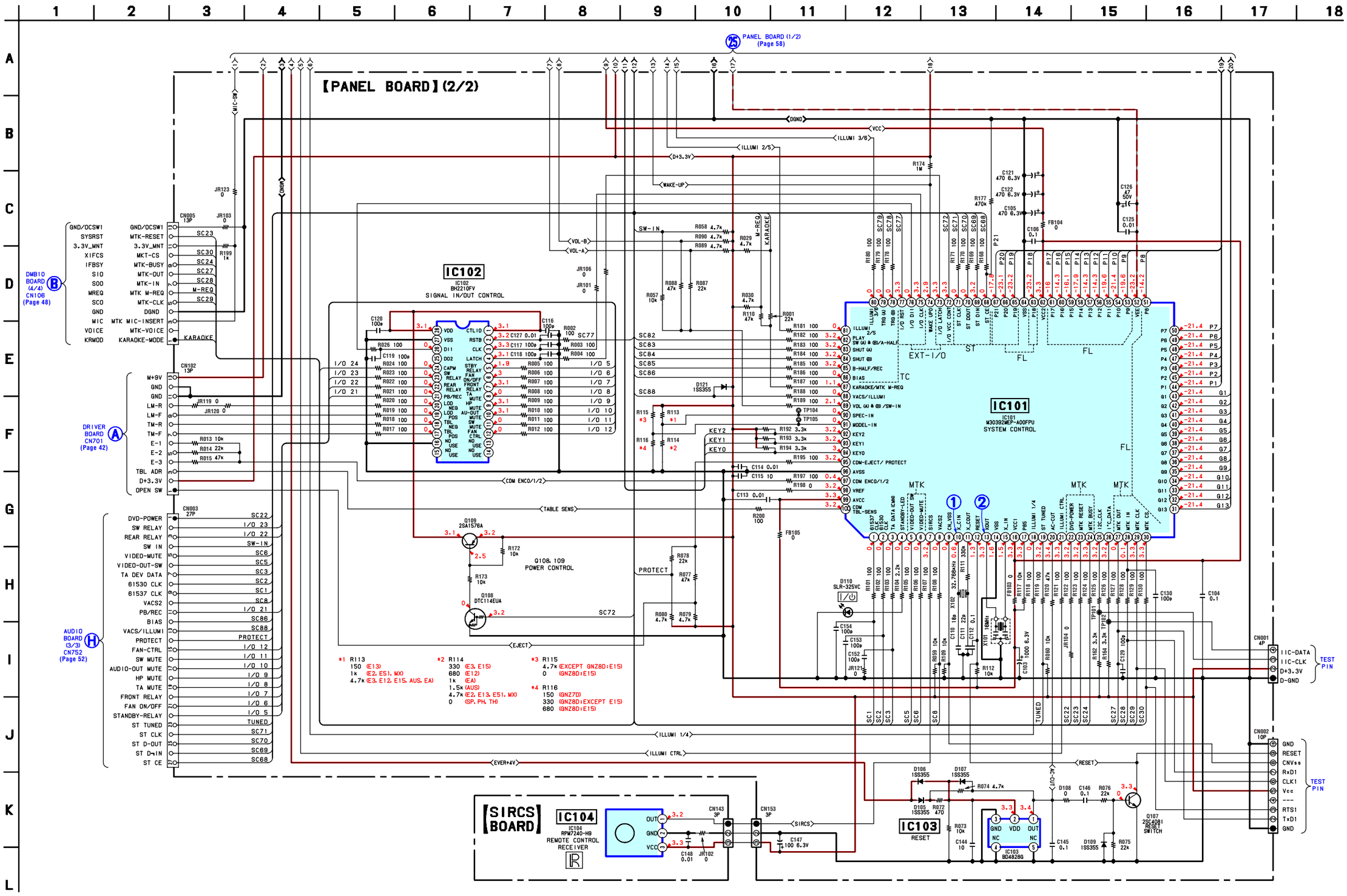
Ref. No.	Location
D101	B-3
D102	C-3
D105	D-7
D106	D-7
D107	D-8
D109	D-8
D110	B-12
D111	C-5
D112	C-5
D113	G-4
D114	F-4
D115	J-6
D116	I-6
D117	H-6
D118	H-5
D119	I-4
D120	J-5
D121	E-5
IC101	C-7
IC102	D-4
IC103	D-8
IC104	H-11
Q101	G-5
Q102	G-4
Q103	G-5
Q104	G-4
Q105	G-5
Q106	G-4
Q107	D-8
Q108	D-3
Q109	D-3
Q111	G-7
Q112	G-7
Q113	F-7
Q114	F-9
Q115	G-9
Q116	G-9
Q117	F-8

7-23. SCHEMATIC DIAGRAM — PANEL SECTION (1/2) —



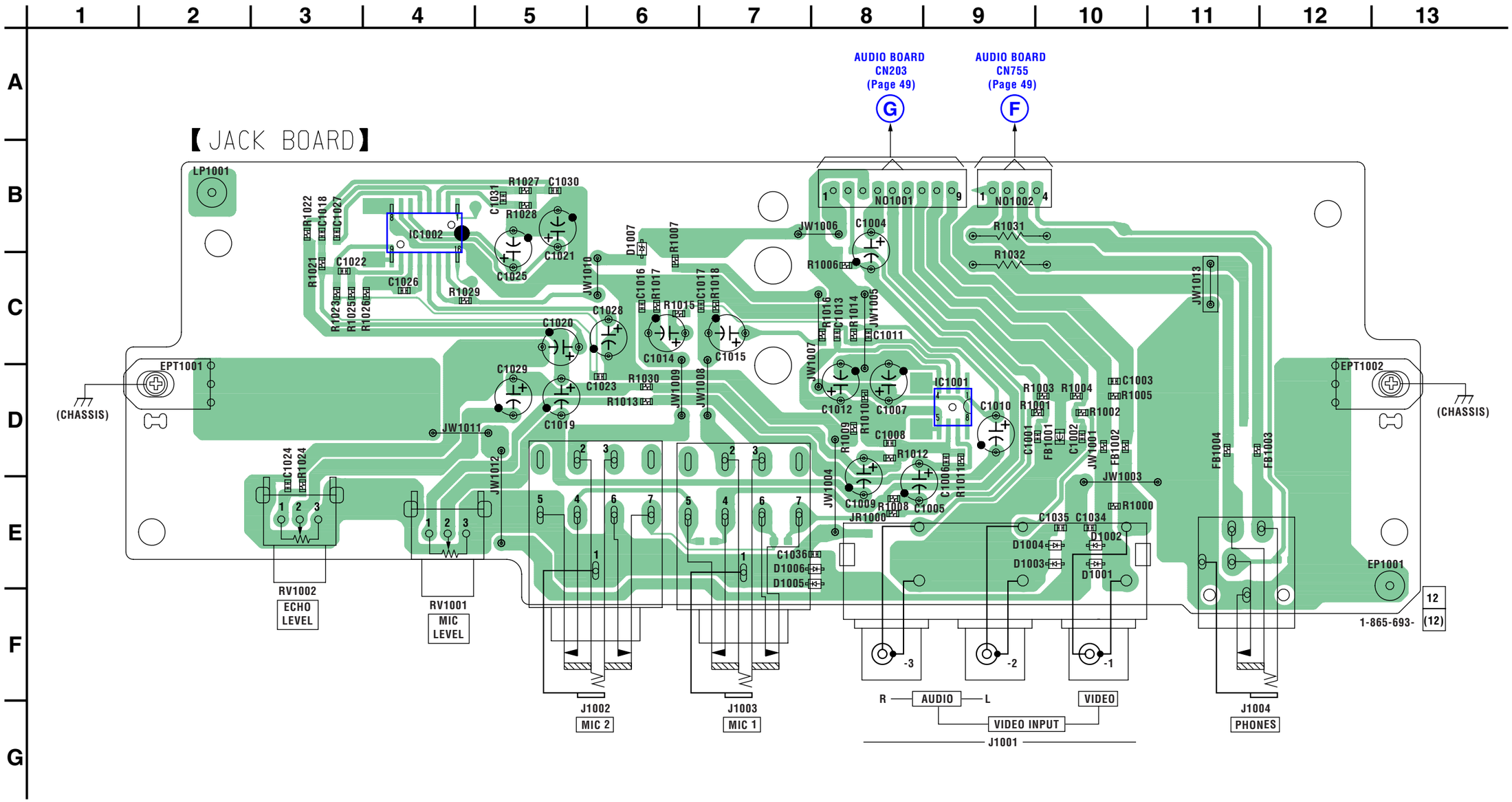
7-24. SCHEMATIC DIAGRAM — PANEL SECTION (2/2) —

• See page 69 for waveforms. • See page 28, 29 for IC Pin Function Description.



7-25. PRINTED WIRING BOARD — JACK SECTION —

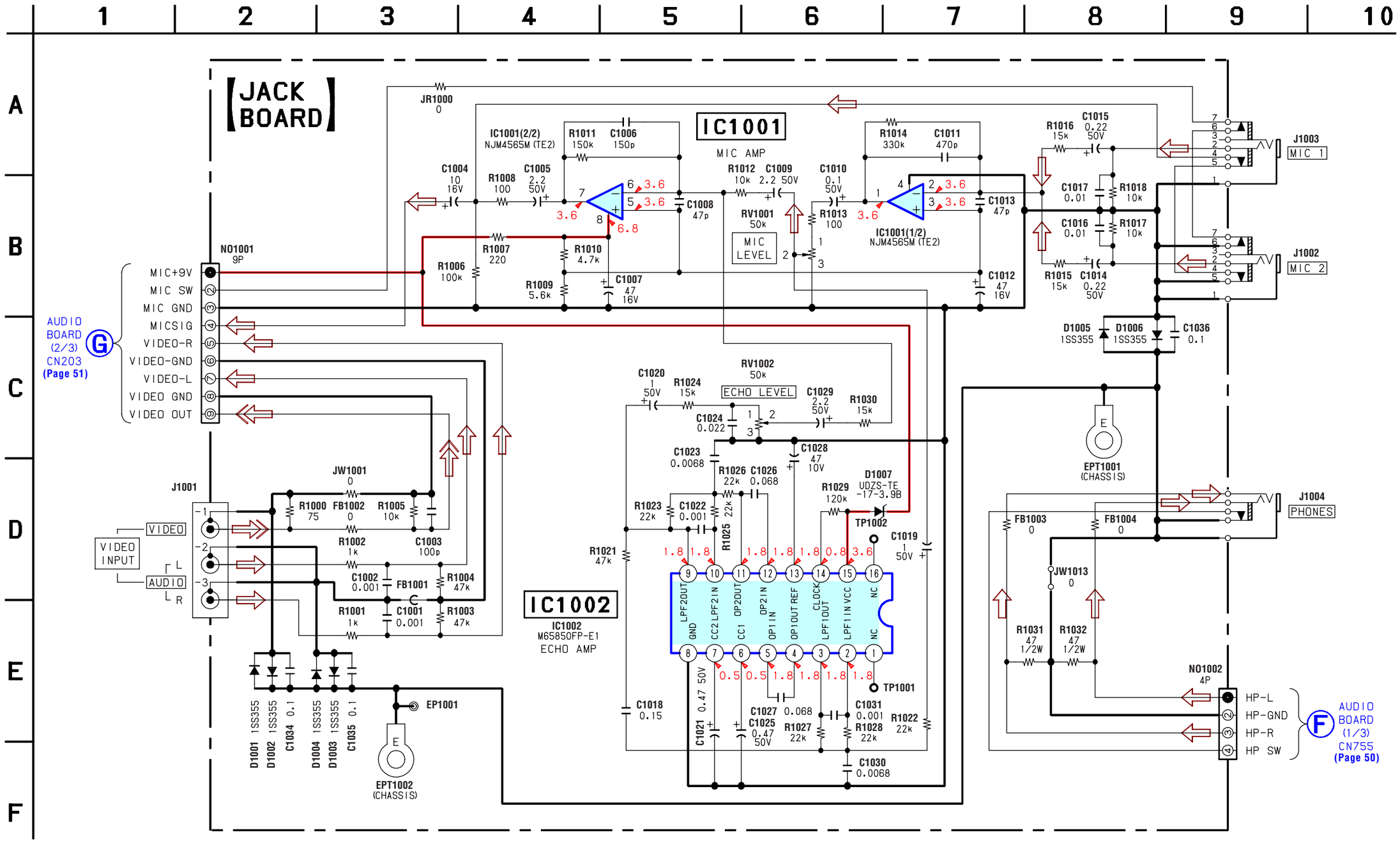
• Refer to page 40 for Circuit Boards Location. : Uses unleaded solder.



• **Semiconductor Location**

Ref. No.	Location
D1001	E-10
D1002	E-10
D1003	E-10
D1004	E-10
D1005	E-7
D1006	E-7
D1007	B-6
IC1001	D-9
IC1002	B-4

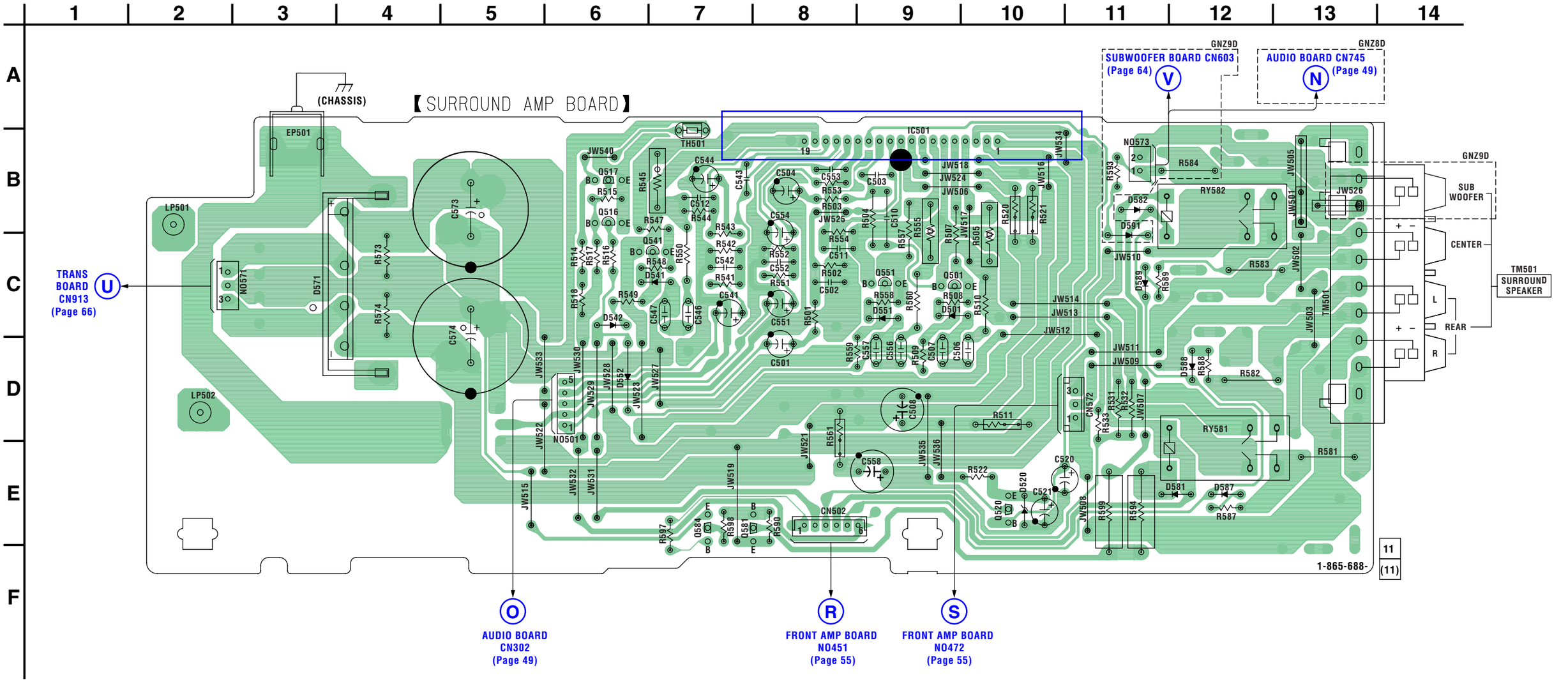
7-26. SCHEMATIC DIAGRAM — JACK SECTION —



7-27. PRINTED WIRING BOARD — SURROUND AMP SECTION — (HCD-GNZ8D/GNZ9D)

• Refer to page 40 for Circuit Boards Location.

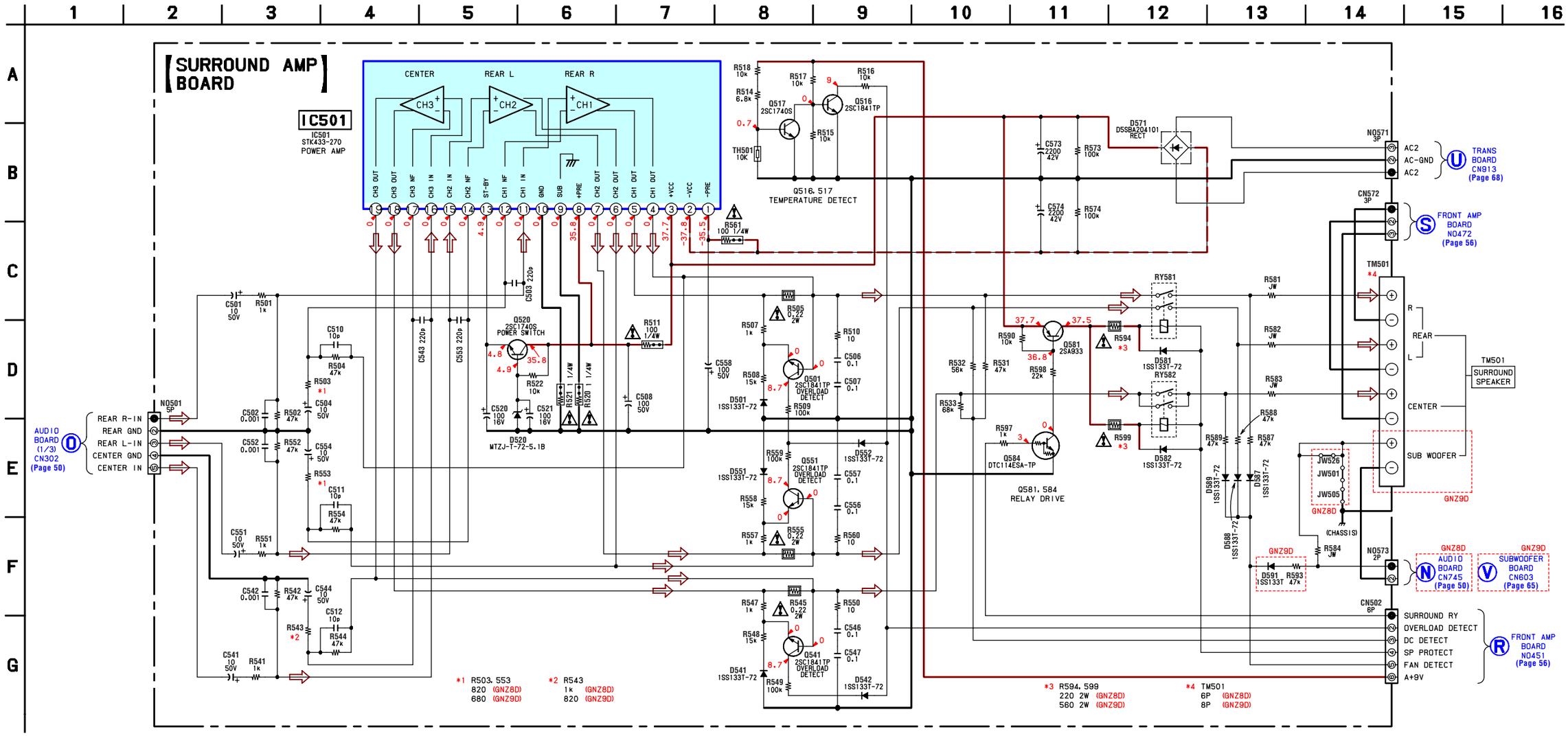
: Uses unleaded solder.



• **Semiconductor Location**

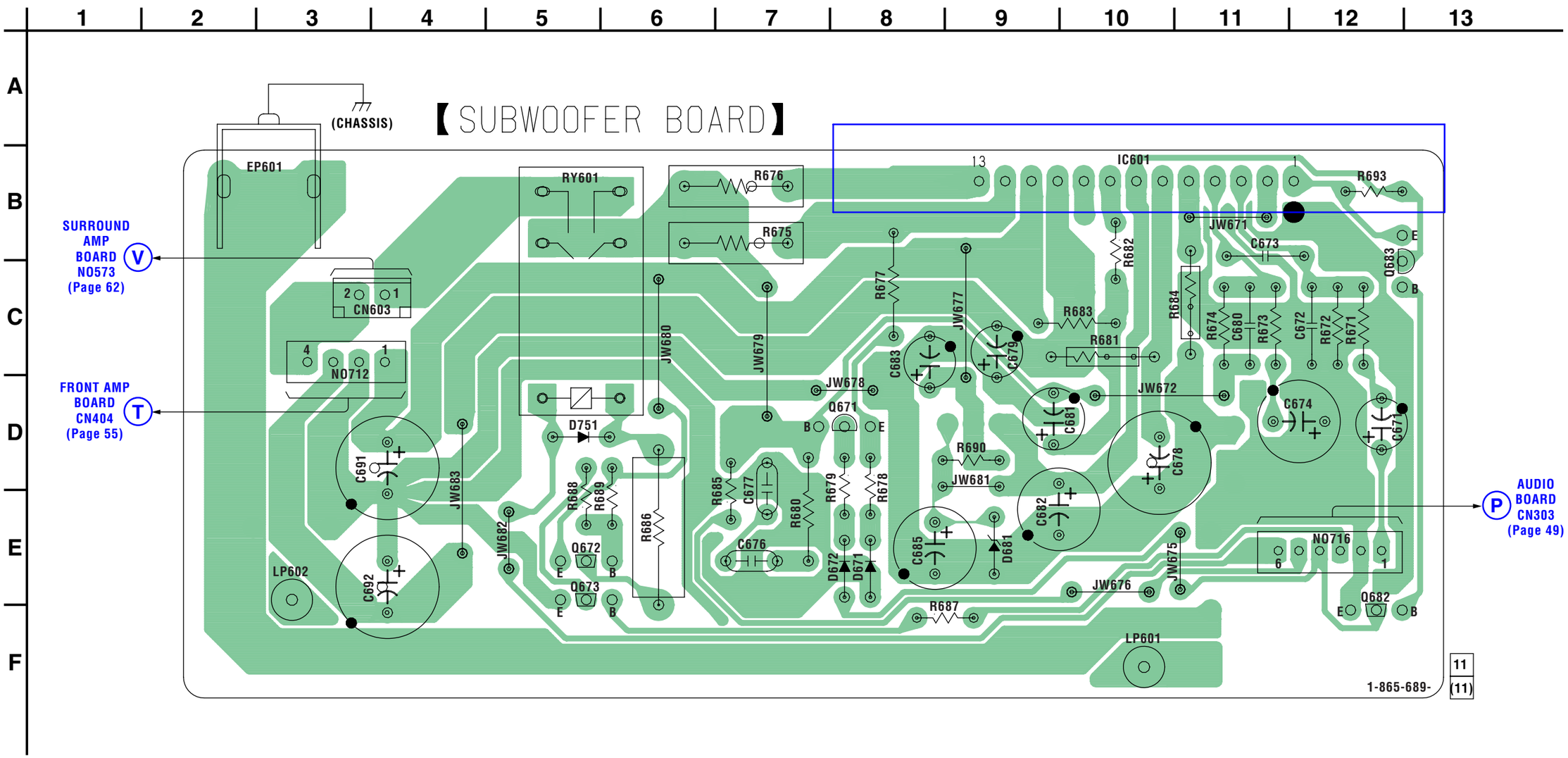
Ref. No.	Location	Ref. No.	Location
D501	C-9	D591	B-11
D520	E-10		
D541	C-7	IC501	B-9
D542	C-6		
D551	C-9	Q501	C-9
D552	D-6	Q516	B-6
D571	C-3	Q517	B-6
D581	E-12	Q520	E-10
D582	B-11	Q541	C-7
D587	E-12	Q551	C-9
D588	D-12	Q581	E-7
D589	C-11	Q584	E-7

7-28. SCHEMATIC DIAGRAM — SURROUND AMP SECTION — (HCD-GNZ8D/GNZ9D)



7-29. PRINTED WIRING BOARD — SUBWOOFER SECTION — (HCD-GNZ9D)

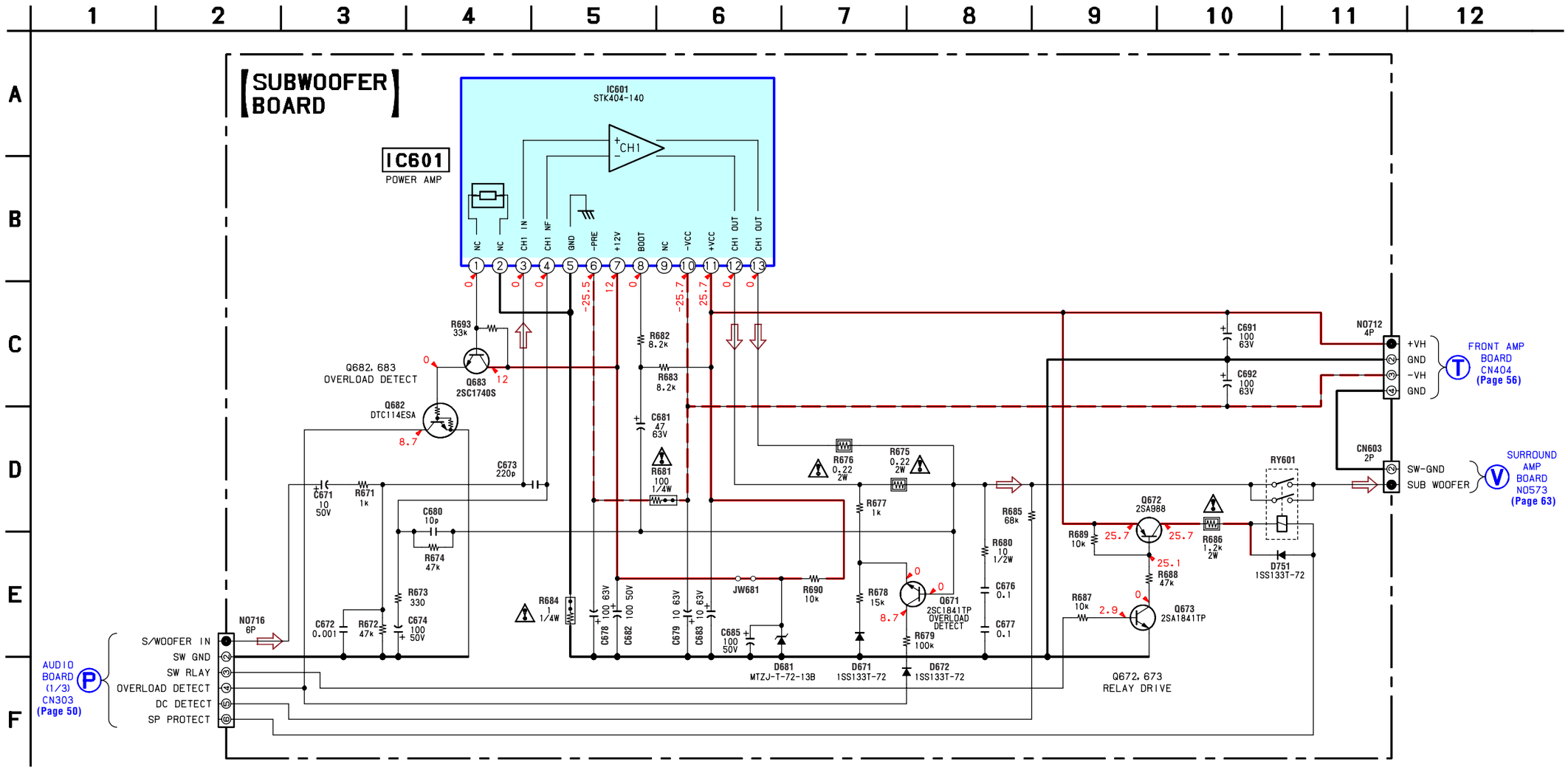
• Refer to page 40 for Circuit Boards Location. : Uses unleaded solder.



• **Semiconductor Location**

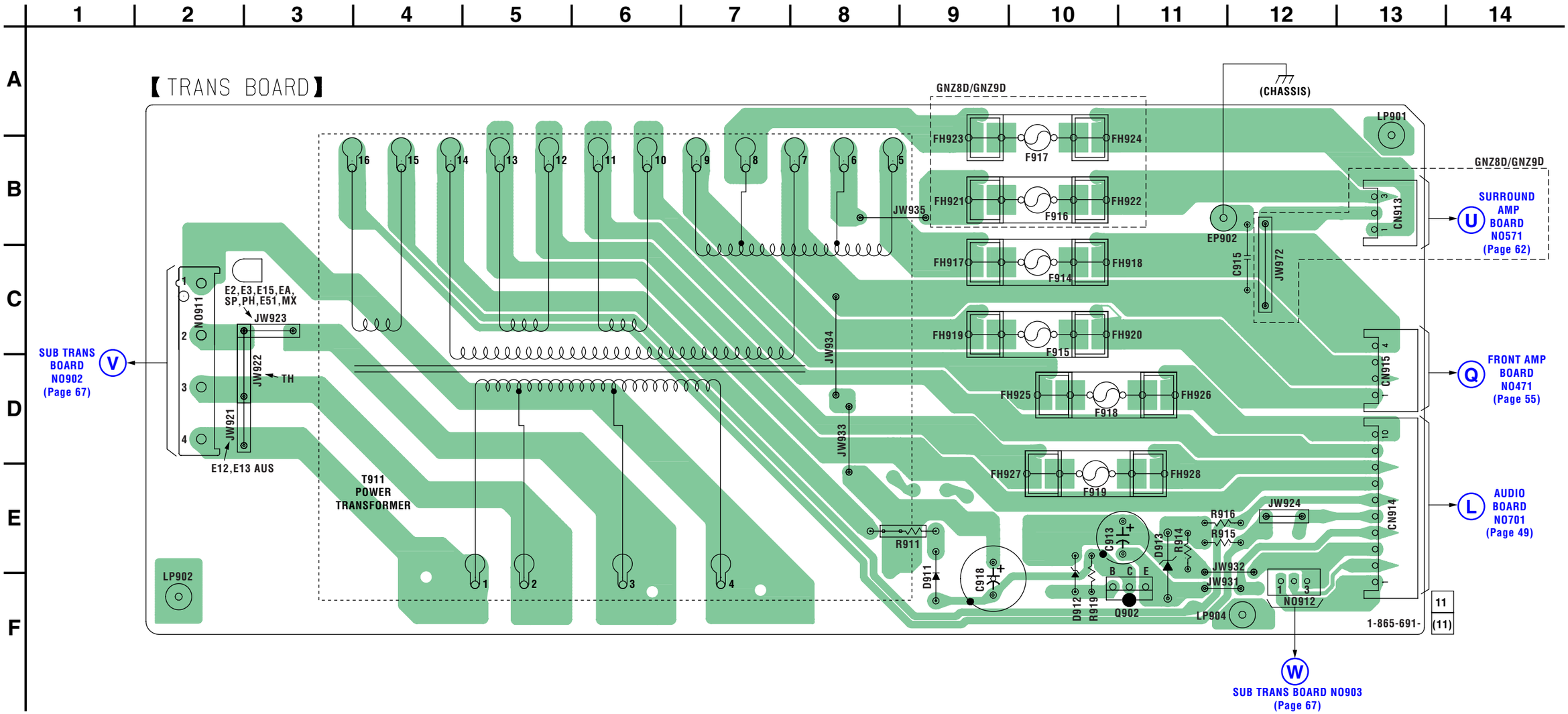
Ref. No.	Location
D671	E-8
D672	E-8
D681	E-9
D751	D-5
IC601	B-10
Q671	D-8
Q672	E-5
Q673	E-5
Q682	E-12
Q683	C-12

7-30. SCHEMATIC DIAGRAM — SUBWOOFER SECTION — (HCD-GNZ9D)



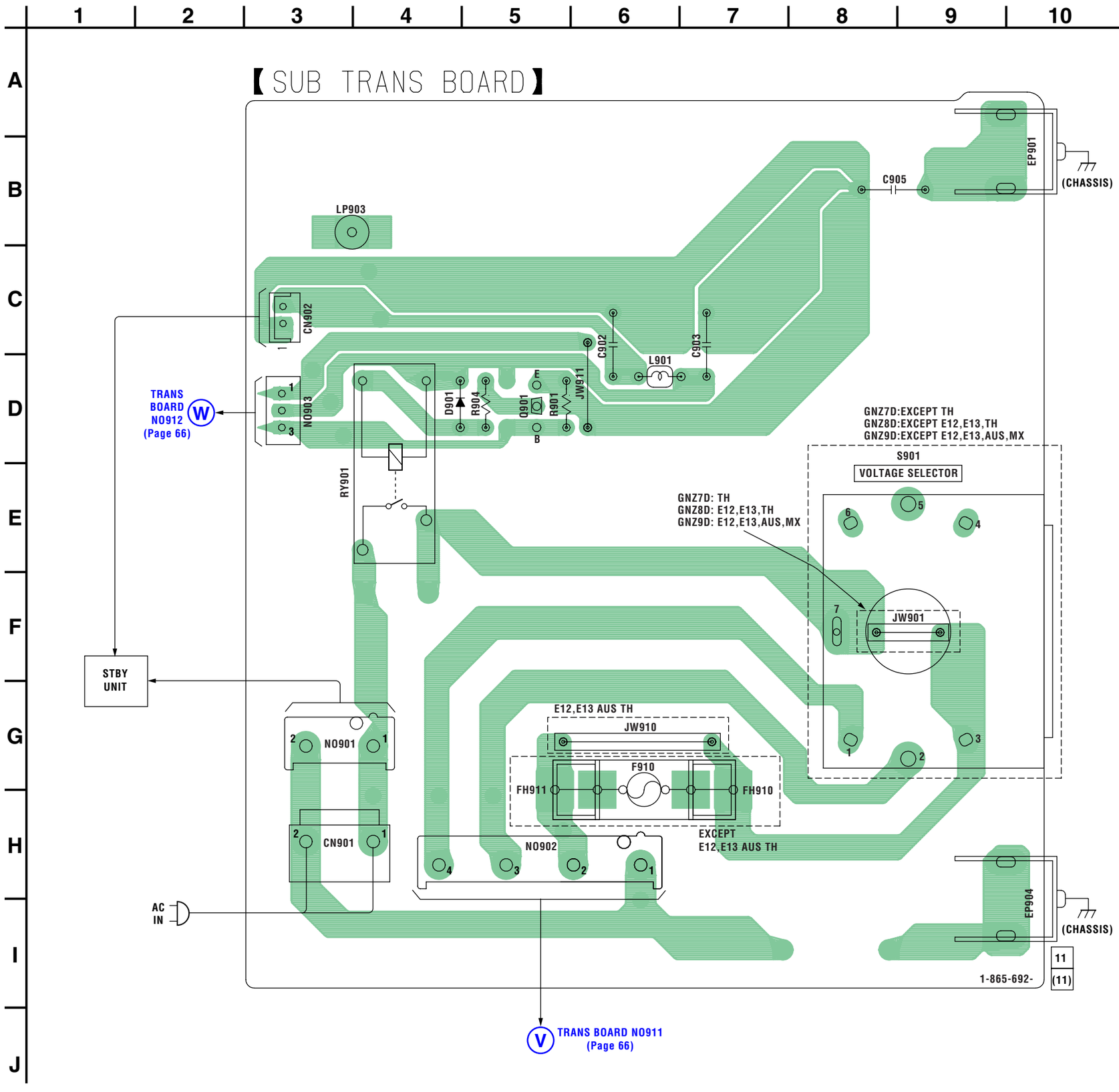
7-31. PRINTED WIRING BOARD — TRANS SECTION —

• Refer to page 40 for Circuit Boards Location. : Uses unleaded solder.

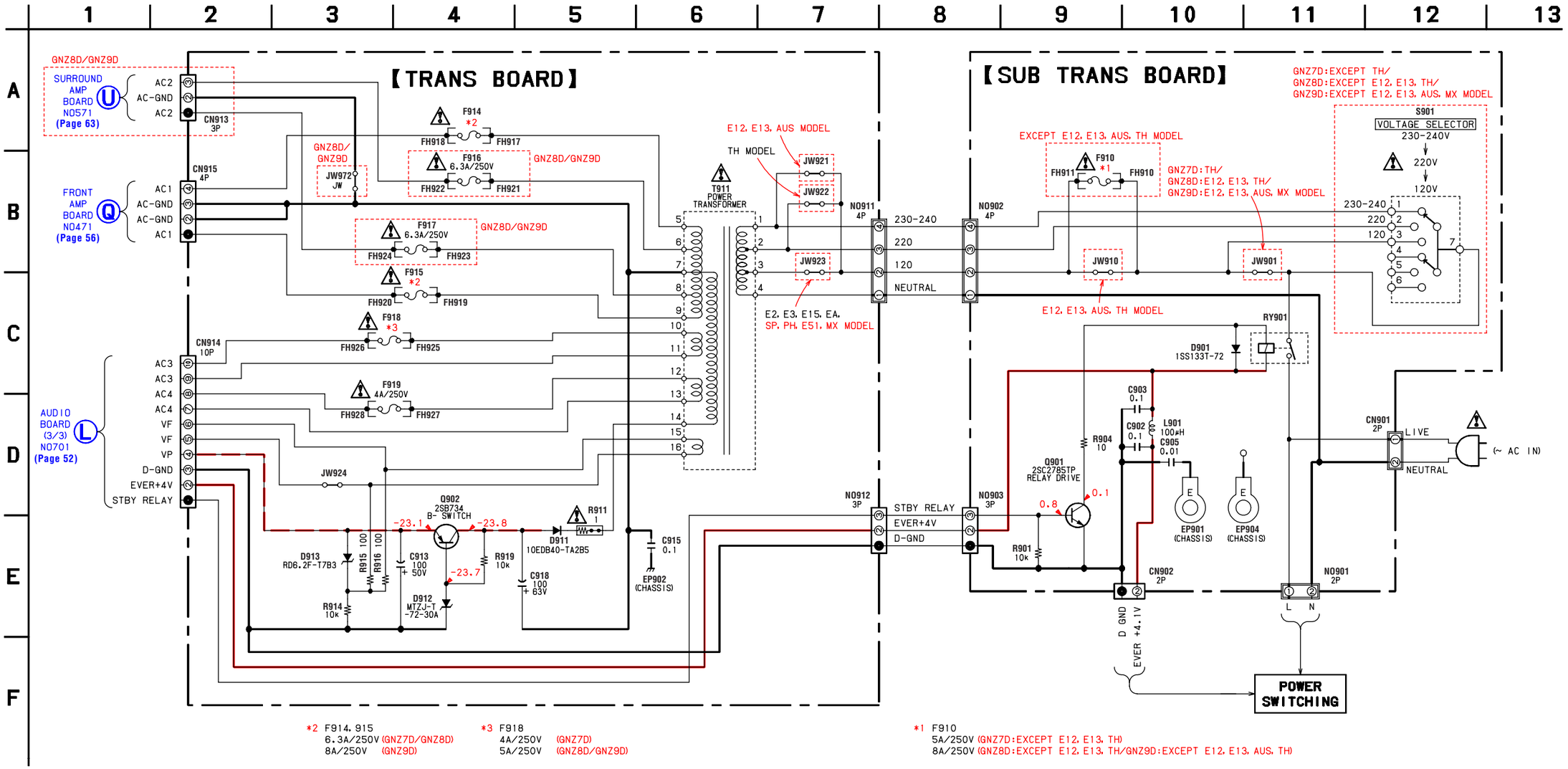


7-32. PRINTED WIRING BOARD — SUB TRANS SECTION —

• Refer to page 40 for Circuit Boards Location. : Uses unleaded solder.



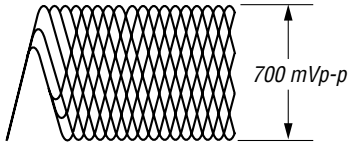
7-33. SCHEMATIC DIAGRAM — POWER SECTION —



- **Waveforms**

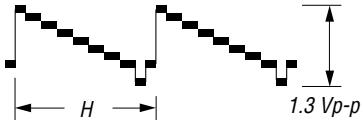
– DMB10 BOARD –

① IC102 ⑥ (DVDRFIP)



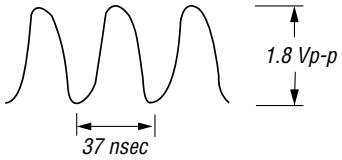
200 mV/DIV, 100 nsec/DIV

④ IC102 ⑭④ (YUV1)



500 mV/DIV, 20 µsec/DIV

⑦ IC102 ②②⑧ (YUV1)

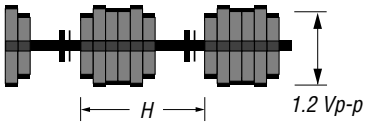


500 mV/DIV, 20 µsec/DIV

② IC102 ③① (FED)

100 mV/DIV, 1 msec/DIV

⑤ IC102 ⑲⑥ (YUV2)

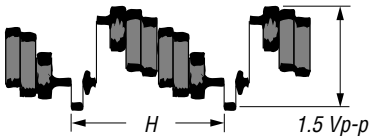


500 mV/DIV, 20 µsec/DIV

③ IC102 ③② (TEO)

500 mV/DIV, 1 msec/DIV

⑥ IC102 ⑲⑧ (YUV3)



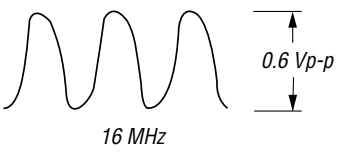
500 mV/DIV, 20 µsec/DIV

– PANEL BOARD –

① IC101 ⑩ (X CIN)

0.5 V/DIV, 20 µsec/DIV

② IC101 ⑬ (X OUT)

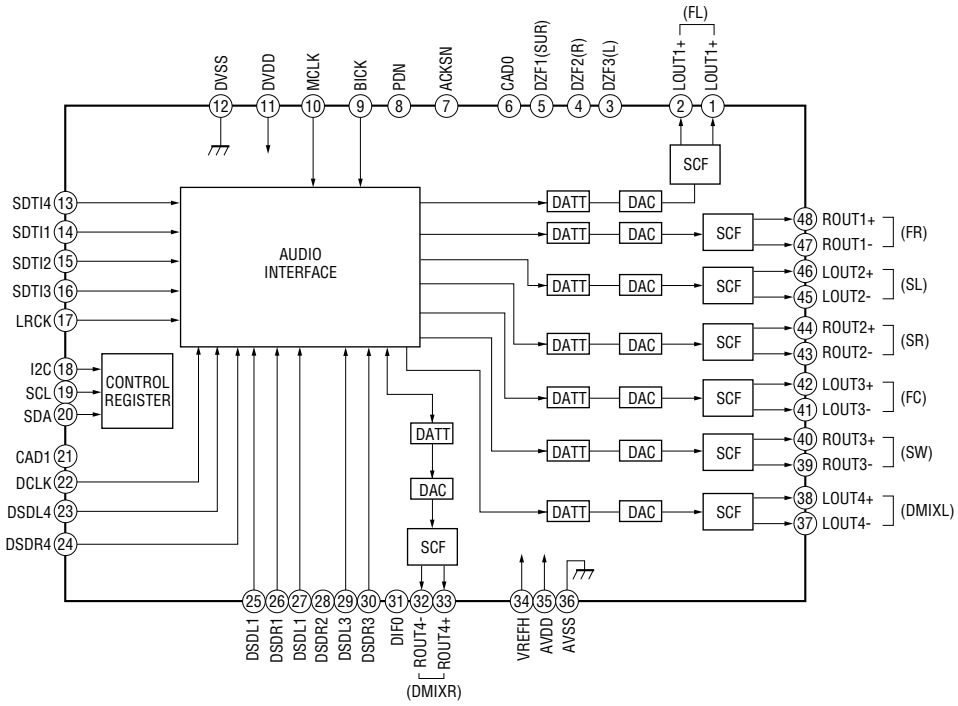


0.5 V/DIV, 0.5 µsec/DIV

• IC Block Diagram

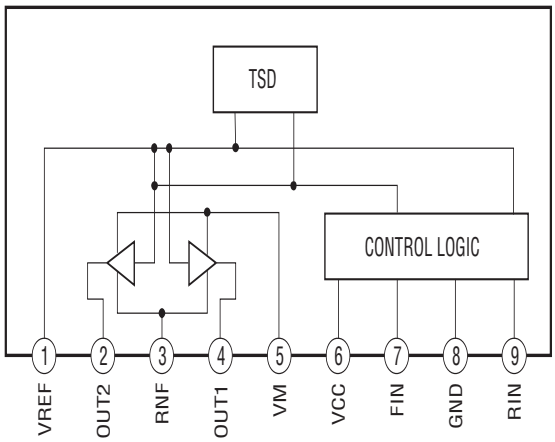
– DMB10 BOARD (1/4) –

IC301 AK4358VQ-L



– DRIVER BOARD –

IC701 BA6956AN
IC712 BA6956AN



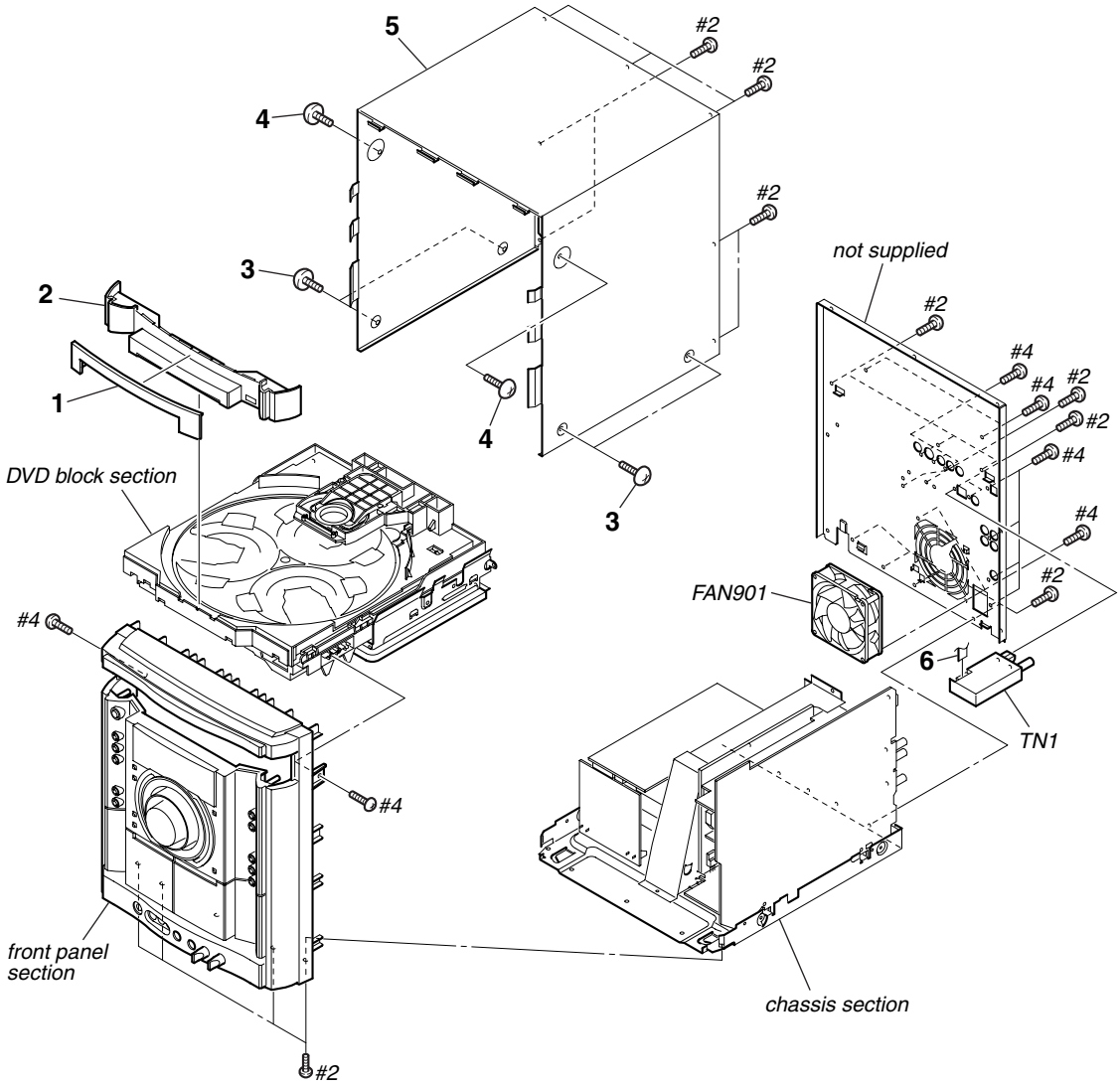
SECTION 8
EXPLODED VIEWS

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

- Abbreviation
  E2 : 120 V AC area in E model
  E3 : 240 V AC area in E model
  E12 : 220-240 V AC area in E model
  E13 : 220-230 V AC area in E model
  E15 : Iran model
  E51 : Chilean and Peruvian model
  AUS : Australian model
  EA : Saudi Arabia model
  PH : Philippine model
  SP : Singapore model
  MX : Mexican model
  TH : Thai model

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

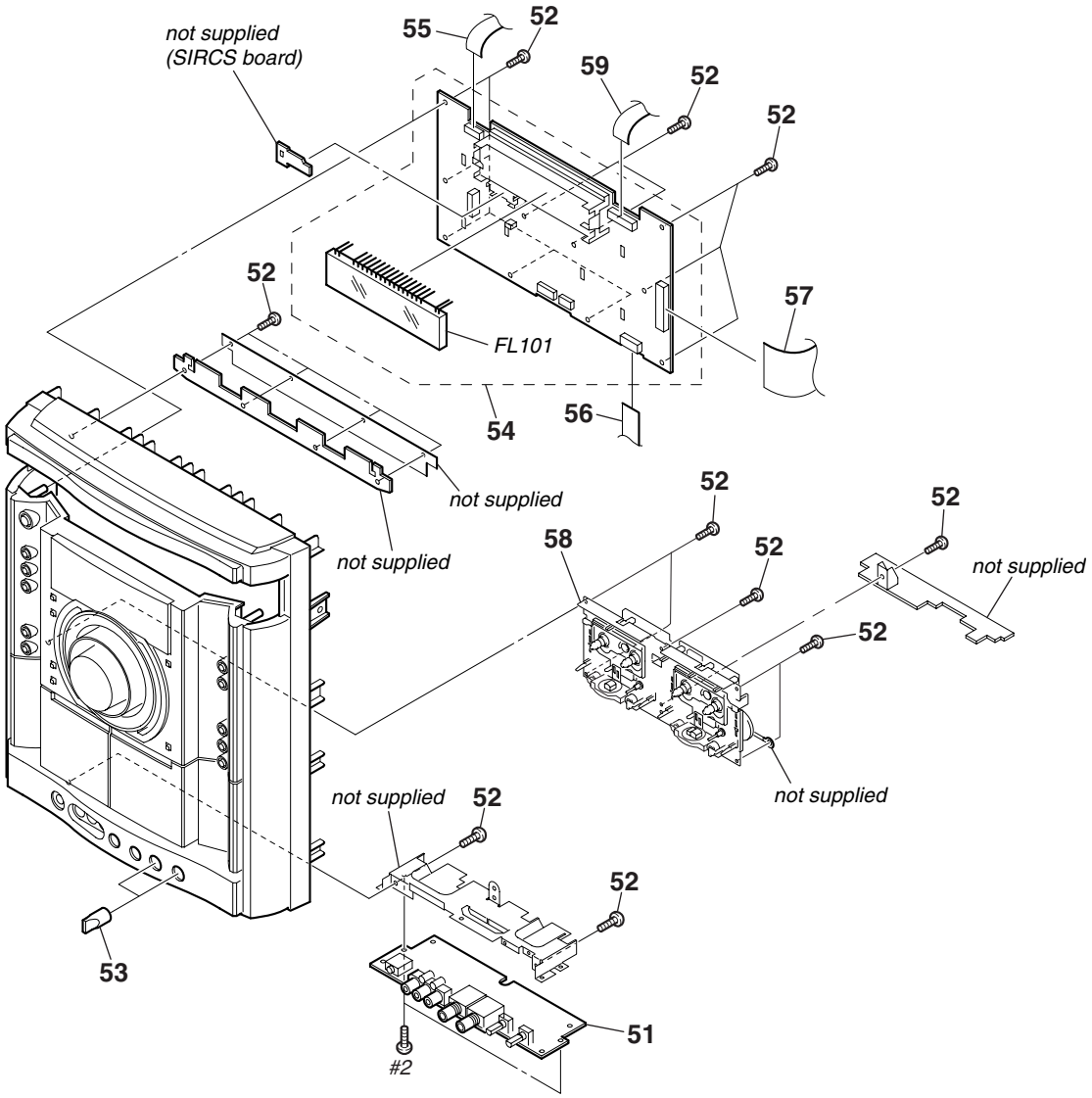
8-1. MAIN SECTION



Ref. No.	Part No.	Description	Remark
1	2-582-718-01	ESCUTCHEON (LOADING) (GNZ8D/GNZ9D:EXCEPT E51,E2,MX)	
1	2-582-718-11	ESCUTCHEON (LOADING) (GNZ9D:E51,E2,MX)	
1	2-582-718-21	ESCUTCHEON (LOADING) (GNZ7D:E13)	
1	2-582-718-31	ESCUTCHEON (LOADING) (GNZ7D:EXCEPT E13)	
2	2-582-709-01	PANEL, LOADING (GNZ9D:EXCEPT E2,E51,MX)	
2	2-582-709-11	PANEL, LOADING (GNZ8D)	
2	2-582-709-21	PANEL, LOADING (GNZ7D:EXCEPT E2)	
2	2-582-709-31	PANEL, LOADING (GNZ9D:E2,E51,MX)	
2	2-582-709-41	PANEL, LOADING (GNZ7D:E2)	

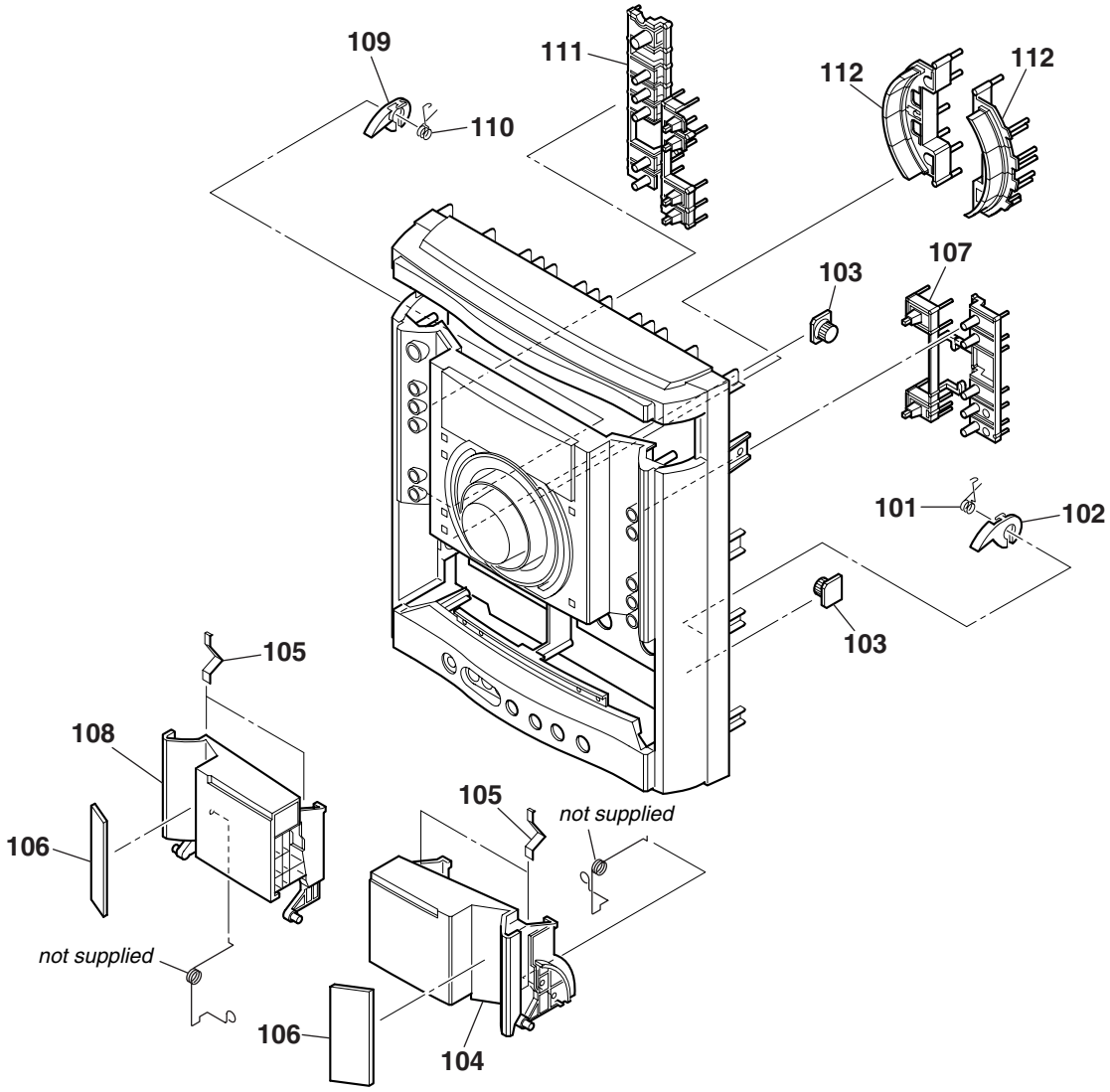
Ref. No.	Part No.	Description	Remark
3	3-363-099-02	SCREW (CASE 3 TP2)	
4	3-363-099-32	SCREW (CASE 3 TP2)	
5	4-248-760-41	CASE, CABINET STEEL	
6	1-828-956-11	WIRE (FLAT TYPE) (9 CORE)	
FAN901	1-763-072-11	FAN, DC	
TN1	1-693-671-11	TUNER (TM-10E)	
#2	7-685-871-01	SCREW +BVTT 3X6 (S)	
#4	7-685-647-79	SCREW +BVTP 3X10 TYPE2 TT (B)	

8-2. FRONT PANEL SECTION (1)



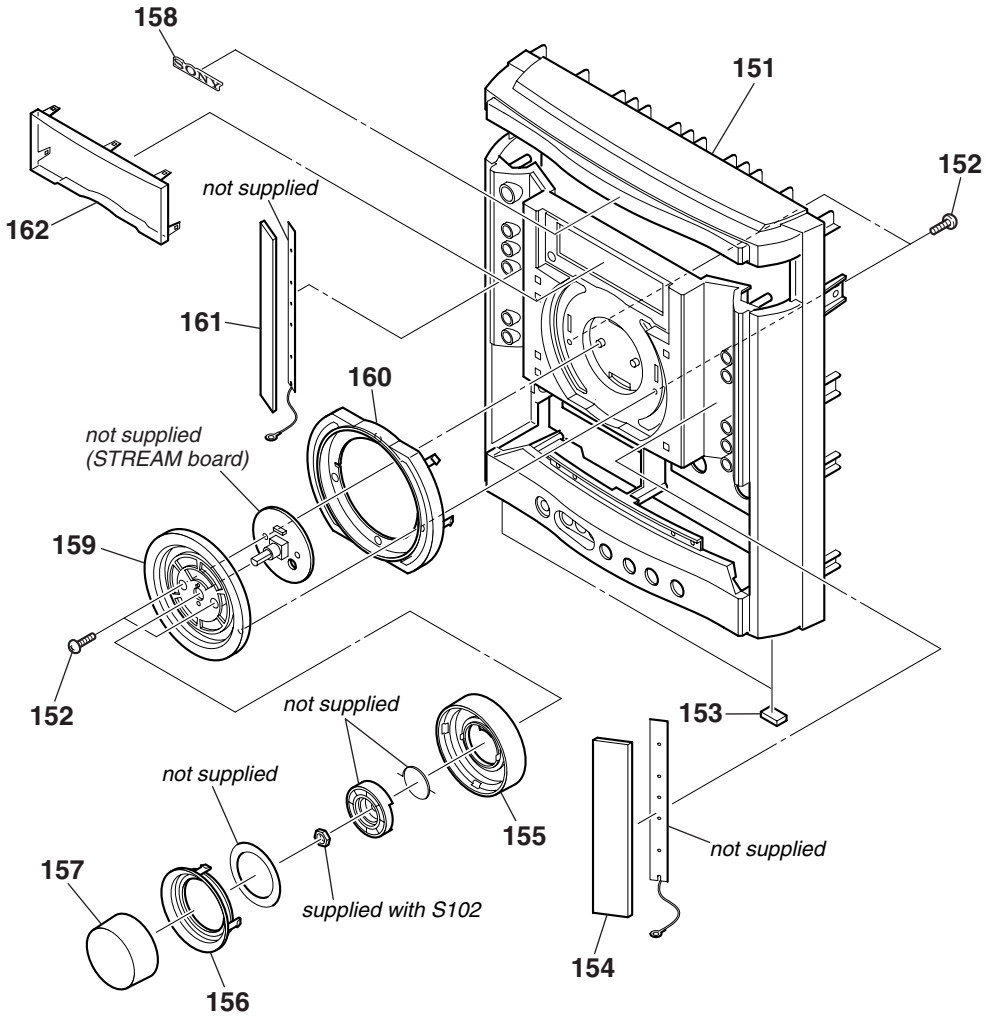
Ref. No.	Part No.	Description	Remark
51	A-1095-805-A	JACK BOARD, COMPLETE (EXCEPT TH)	
51	A-1111-503-A	JACK BOARD, COMPLETE (TH)	
52	3-087-053-01	+BVTP 2.6 (3CR)	
53	4-238-628-12	KNOB (MIC)	
54	A-1095-804-A	PANEL BOARD, COMPLETE (EXCEPT TH)	
54	A-1111-502-A	PANEL BOARD, COMPLETE (TH)	
55	1-828-977-11	WIRE (FLAT TYPE) (13 CORE)	
56	1-828-971-11	WIRE (FLAT TYPE) (13 CORE)	
57	1-829-041-11	WIRE (FLAT TYPE) (27 CORE)	
58	1-797-246-11	DECK, MECHANISM	
59	1-828-332-11	WIRE (FLAT TYPE) (13 CORE)	
FL101	1-519-811-11	INDICATOR TUBE, FLUORESCENT	
#2	7-685-871-01	SCREW +BVTT 3X6 (S)	

8-3. FRONT PANEL SECTION (2)



Ref. No.	Part No.	Description	Remark
101	4-231-836-01	SPRING (HEART CAM-A)	
102	4-231-824-01	CAM (A), HEART	
103	4-224-104-41	DAMPER	
104	2-582-708-01	LID (B), CASSETTE	
105	4-238-631-01	SPRING, TAPE	
106	2-582-720-01	ESCUTCHEON (LID TC)	
107	2-582-711-01	BUTTON (DISC)	
108	2-582-707-01	LID (A), CASSETTE	
109	4-231-825-01	CAM (B), HEART	
110	4-231-841-01	SPRING (HEART CAM-B)	
111	X-2050-168-1	BUTTON (POWER) ASSY	
112	2-582-712-01	BUTTON (PLAY)	

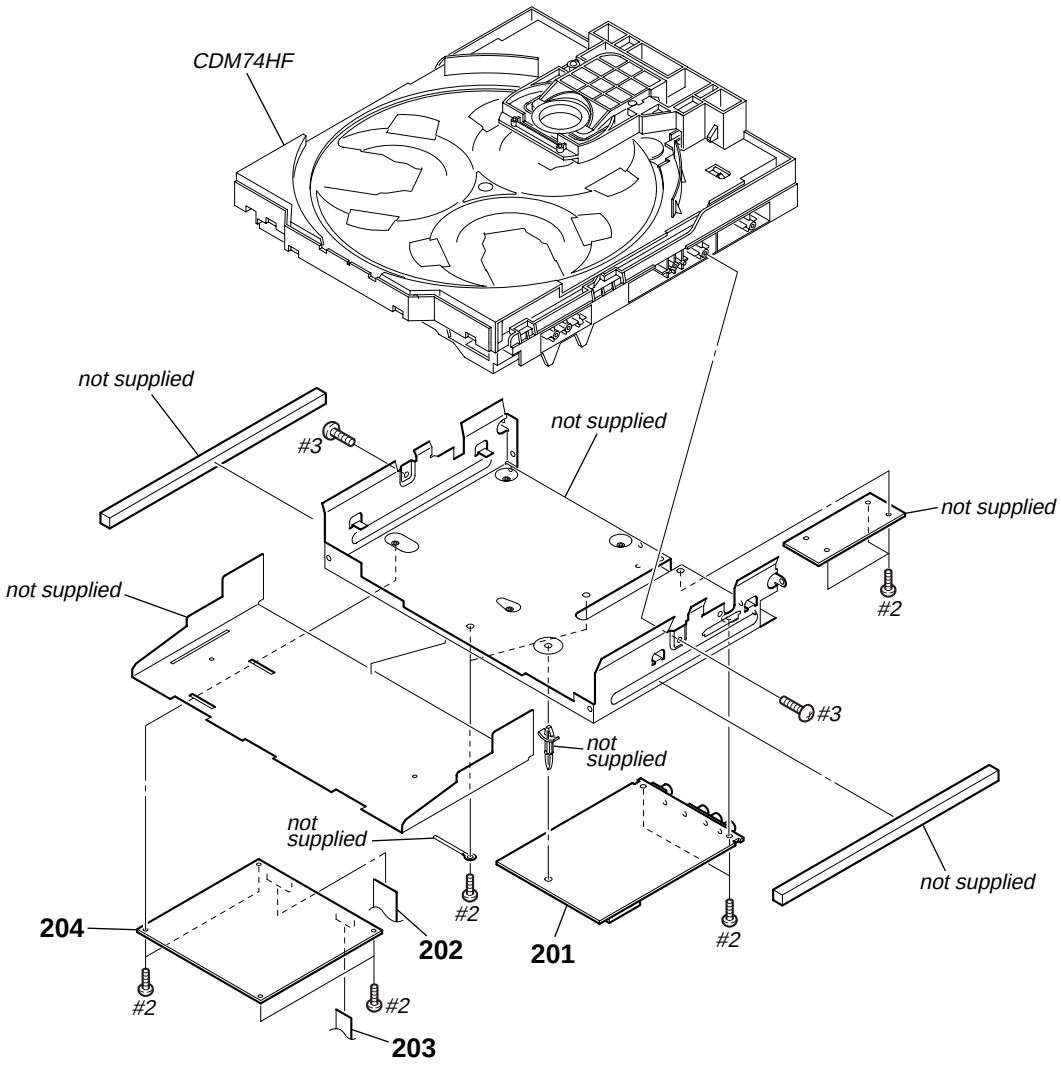
8-4. FRONT PANEL SECTION (3)



Ref. No.	Part No.	Description	Remark
151	2-582-706-01	PANEL, FRONT	
152	3-087-053-01	+BVTP 2.6 (3CR)	
153	4-233-980-01	RUBBER, FOOT	
154	2-582-719-01	ESCUTCHEON (PANEL)	
155	2-582-715-01	RING (JOG)	
156	2-582-714-01	INDICATOR (JOG)	
157	2-582-713-01	KNOB (VOL) (MX)	

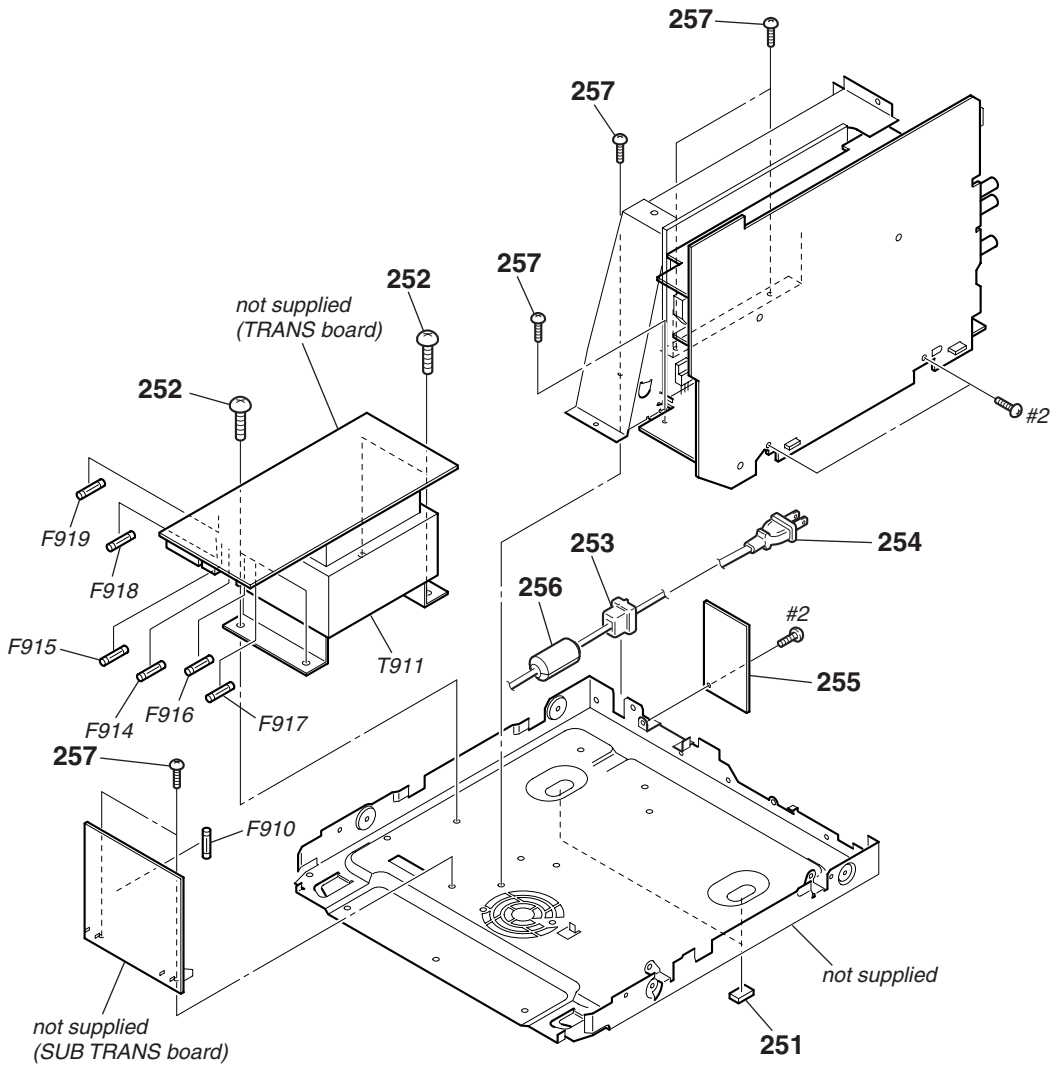
Ref. No.	Part No.	Description	Remark
157	2-590-671-01	KNOB (VOL) (EXCEPT MX)	
158	3-038-018-01	EMBLEM, SONY	
159	2-582-716-01	ESCUTCHEON (JOG)	
160	2-582-717-01	ORNAMENT (PLAY)	
161	2-582-719-11	ESCUTCHEON (PANEL)	
162	2-582-721-01	WINDOW, INDICATION	

8-5. DVD BLOCK SECTION



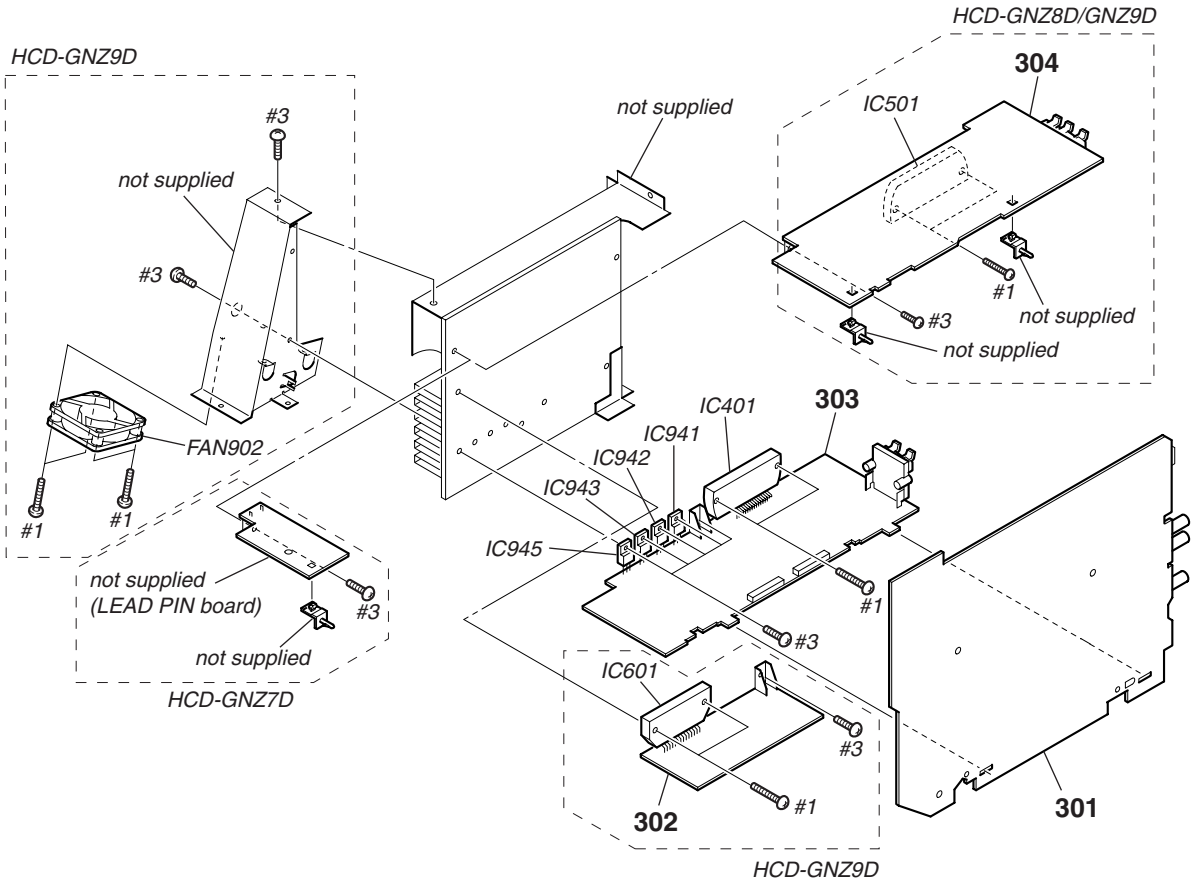
Ref. No.	Part No.	Description	Remark
201	A-1095-819-A	VIDEO BOARD, COMPLETE (EXCEPT TH)	
201	A-1111-533-A	VIDEO BOARD, COMPLETE (TH)	
202	1-828-344-11	WIRE (FLAT TYPE) (15 CORE) (GNZ8D/GNZ9D)	
202	1-828-354-11	WIRE (FLAT TYPE) (17 CORE) (GNZ7D)	
203	1-828-330-11	WIRE (FLAT TYPE) (13 CORE)	
204	A-1095-784-A	DMB10 BOARD, COMPLETE (GNZ9D:SP,PH)	
204	A-1095-785-A	DMB10 BOARD, COMPLETE (GNZ9D:E3,E12,E13,E15)	
204	A-1095-786-A	DMB10 BOARD, COMPLETE (GNZ9D:E2,E51,MX)	
204	A-1095-787-A	DMB10 BOARD, COMPLETE (GNZ8D:SP,PH)	
204	A-1095-788-A	DMB10 BOARD, COMPLETE (GNZ8D:E3,E12,E13,E15)	
204	A-1095-789-A	DMB10 BOARD, COMPLETE (GNZ7D:SP,PH)	
204	A-1095-790-A	DMB10 BOARD, COMPLETE (GNZ7D:E3,E12,E13,E15)	
204	A-1095-791-A	DMB10 BOARD, COMPLETE (GNZ7D:E2)	
204	A-1111-492-A	DMB10 BOARD, COMPLETE (GNZ9D:TH)	
204	A-1111-493-A	DMB10 BOARD, COMPLETE (GNZ8D:TH)	
204	A-1111-494-A	DMB10 BOARD, COMPLETE (GNZ7D:TH)	
204	A-1134-215-A	DMB10 BOARD, COMPLETE (GNZ9D:AUS,EA)	
204	A-1134-216-A	DMB10 BOARD, COMPLETE (GNZ8D:EA)	
204	A-1134-217-A	DMB10 BOARD, COMPLETE (GNZ7D:EA)	
#2	7-685-871-01	SCREW +BVTT 3X6 (S)	
#3	7-685-646-79	SCREW +BVTP 3X8 TYPE2 TT (B)	

8-6. CHASSIS SECTION



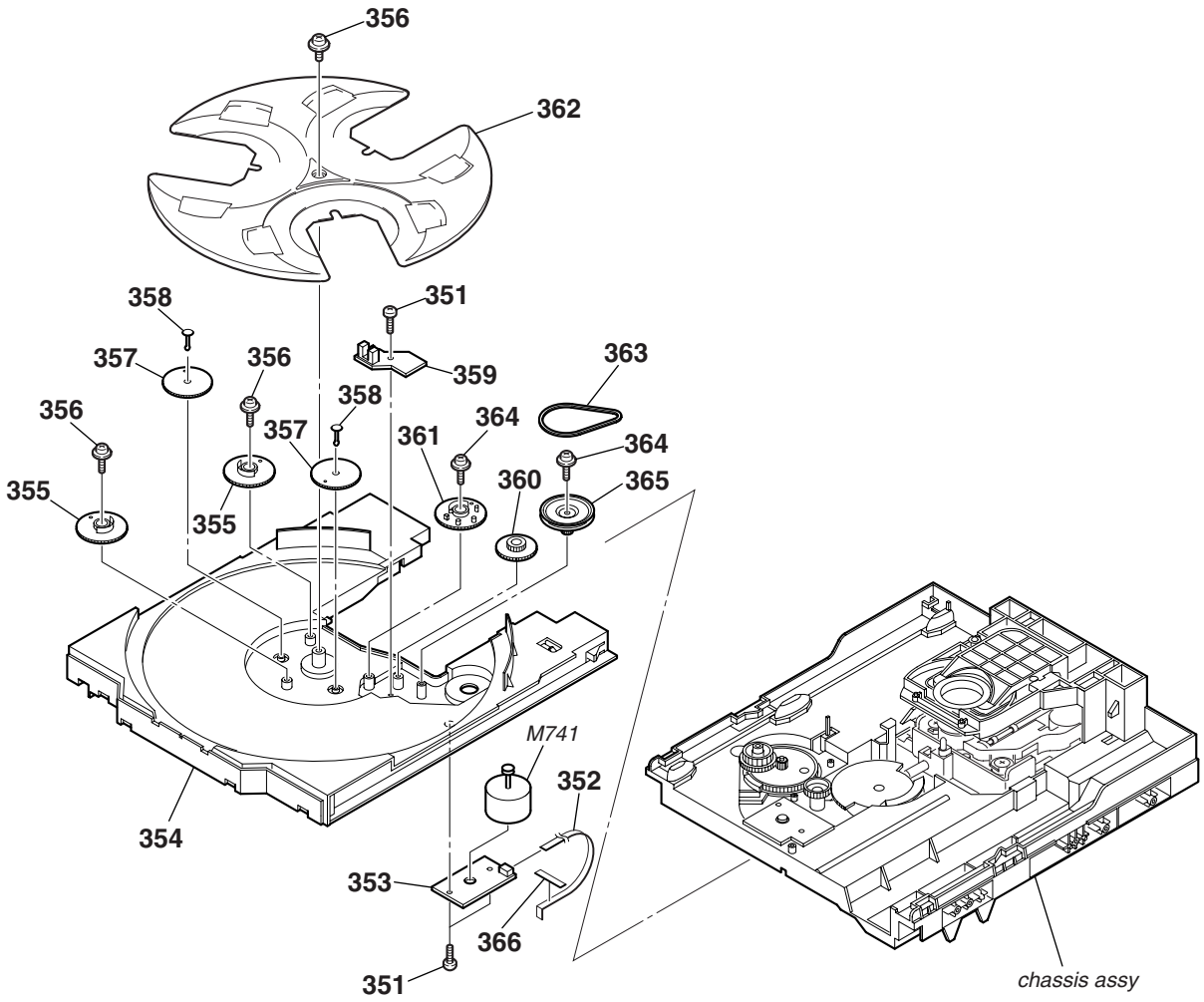
Ref. No.	Part No.	Description	Remark
251	4-233-980-01	RUBBER, FOOT	
252	4-900-386-01	SCREW	
253	3-703-244-00	BUSHING (2104), CORD	(EXCEPT E2,E3,E15,MX)
* 253	3-703-571-12	BUSHING (S) (4516), CORD (E2,E3,E15,MX)	
⚠254	1-696-847-22	CORD, POWER (AUS)	
⚠254	1-777-071-23	CORD, POWER (E12,E13,E51,EA,SP,PH)	
⚠254	1-824-818-21	CORD, POWER (WITH CONNECTOR) (TH)	
⚠254	1-827-226-11	CORD, POWER (E2,E3,E15,MX)	
⚠255	1-468-737-21	POWER, SWITCHING	
256	1-500-386-11	FILTER, CLAMP (FERRITE CORE) (AUS,EA)	
257	2-630-050-01	+BVTT 3X6 (SUMITITE)	
⚠F910	1-532-505-32	FUSE (5A/250V)	(GNZ7D:EXCEPT E12,E13,TH)
⚠F910	1-533-949-33	FUSE, CYLINDRICAL (TIME LUG) (8A/250V)	(GNZ8D:EXCEPT E12,E13,TH/ GNZ9D:EXCEPT E12,E13,AUS,TH)
⚠F914	1-532-506-33	FUSE (6.3A/250V) (GNZ7D/GNZ8D)	
⚠F914	1-533-949-33	FUSE, CYLINDRICAL (TIME LUG) (8A/250V)	(GNZ9D)
⚠F915	1-532-506-33	FUSE (6.3A/250V) (GNZ7D/GNZ8D)	
⚠F915	1-533-949-33	FUSE, CYLINDRICAL (TIME LUG) (8A/250V)	(GNZ9D)
⚠F916	1-532-506-33	FUSE (6.3A/250V) (GNZ8D/GNZ9D)	
⚠F917	1-532-506-33	FUSE (6.3A/250V) (GNZ8D/GNZ9D)	
⚠F918	1-532-504-33	FUSE (4A/250V) (GNZ7D)	
⚠F918	1-532-505-33	FUSE (5A/250V) (GNZ8D/GNZ9D)	
⚠F919	1-532-504-33	FUSE (4A/250V)	
⚠T911	1-443-174-11	TRANSFORMER, POWER (GNZ7D:EXCEPT EA)	
⚠T911	1-443-175-11	TRANSFORMER, POWER (GNZ7D:EA)	
⚠T911	1-443-352-11	TRANSFORMER, POWER (GNZ8D:EXCEPT EA)	
⚠T911	1-443-362-11	TRANSFORMER, POWER (GNZ8D:EA)	
⚠T911	1-443-690-11	TRANSFORMER, POWER	(GNZ9D:EXCEPT EA,MX)
⚠T911	1-443-691-11	TRANSFORMER, POWER (GNZ9D:EA,MX)	
#2	7-685-871-01	SCREW +BVTT 3X6 (S)	

8-7. AUDIO BOARD SECTION



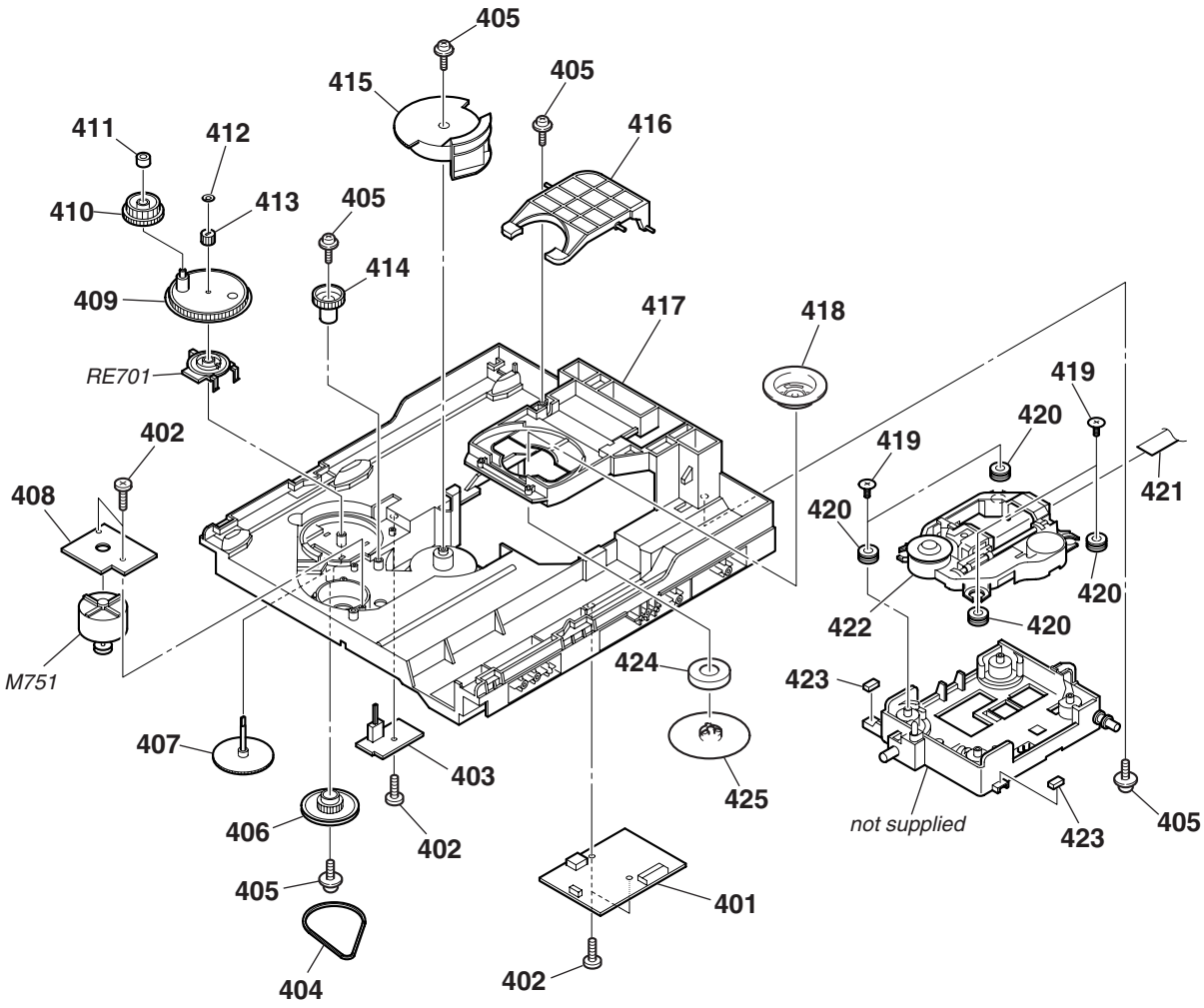
Ref. No.	Part No.	Description	Remark
301	A-1095-768-A	AUDIO BOARD, COMPLETE (GNZ9D:EXCEPT E2,TH)	
301	A-1095-769-A	AUDIO BOARD, COMPLETE (GNZ8D:EXCEPT TH)	
301	A-1095-770-A	AUDIO BOARD, COMPLETE (GNZ7D:EXCEPT E2,TH)	
301	A-1111-480-A	AUDIO BOARD, COMPLETE (GNZ9D:TH)	
301	A-1111-481-A	AUDIO BOARD, COMPLETE (GNZ8D:TH)	
301	A-1111-482-A	AUDIO BOARD, COMPLETE (GNZ7D:TH)	
301	A-1122-987-A	AUDIO BOARD, COMPLETE (GNZ9D:E2)	
301	A-1122-988-A	AUDIO BOARD, COMPLETE (GNZ7D:E2)	
302	A-1095-778-A	SUBWOOFER BOARD, COMPLETE (GNZ9D:EXCEPT TH)	
302	A-1111-488-A	SUBWOOFER BOARD, COMPLETE (GNZ9D:TH)	
303	A-1095-771-A	FRONT AMP BOARD, COMPLETE (GNZ9D:EXCEPT TH)	
303	A-1095-772-A	FRONT AMP BOARD, COMPLETE (GNZ8D:EXCEPT TH)	
303	A-1095-773-A	FRONT AMP BOARD, COMPLETE (GNZ7D:EXCEPT TH)	
303	A-1111-483-A	FRONT AMP BOARD, COMPLETE (GNZ9D:TH)	
303	A-1111-484-A	FRONT AMP BOARD, COMPLETE (GNZ8D:TH)	
303	A-1111-485-A	FRONT AMP BOARD, COMPLETE (GNZ7D:TH)	
304	A-1095-774-A	SURROUND AMP BOARD, COMPLETE (GNZ9D:EXCEPT TH)	
304	A-1095-775-A	SURROUND AMP BOARD, COMPLETE (GNZ8D:EXCEPT TH)	
304	A-1111-486-A	SURROUND AMP BOARD, COMPLETE (GNZ9D:TH)	
304	A-1111-487-A	SURROUND AMP BOARD, COMPLETE (GNZ8D:TH)	
FAN902	1-787-336-11	FAN, DC (GNZ9D)	
IC401	6-600-221-01	IC STK403-130 (GNZ9D)	
IC401	6-705-853-01	IC STK403-120 (GNZ7D/GNZ8D)	
IC501	6-707-960-01	IC STK433-270 (GNZ8D/GNZ9D)	
IC601	6-600-182-01	IC STK404-140S (GNZ9D)	
IC941	8-759-198-03	IC PQ09RF21J00H	
IC942	8-759-701-59	IC NJM78M09FA	
IC943	8-759-701-59	IC NJM78M09FA	
IC945	6-703-546-01	IC TA7804LS	
#1	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3	
#3	7-685-646-79	SCREW +BVTP 3X8 TYPE2 TT (B)	

8-8. DVD MECHANISM DECK SECTION (1)



Ref. No.	Part No.	Description	Remark
351	4-218-253-62	SCREW (M2.6), +BTTP	
352	1-776-182-11	WIRE (FLAT TYPE) (5 CORE)	
353	1-687-134-12	MOTOR (TB) BOARD	
354	4-243-815-01	TABLE (LOADING)	
355	4-245-571-02	GEAR (STOPPER)	
356	4-218-252-61	SCREW (+PTPWH M2.6), FLOATING	
357	4-245-570-01	GEAR (JOINT)	
358	4-245-572-01	BUSHING (GEAR)	
359	1-687-132-12	SENSOR BOARD	
360	4-243-820-01	GEAR (TABLE)	
361	4-243-819-01	GEAR (GENEVA)	
362	4-243-816-21	TRAY	
363	4-243-823-01	BELT (TABLE)	
364	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING	
365	4-243-821-01	PULLEY (TABLE)	
366	3-231-598-01	SHEET (BA)	
M741	A-4723-963-A	MOTOR ASSY, TABLE (TABLE)	

8-9. DVD MECHANISM DECK SECTION (2)



Ref. No.	Part No.	Description	Remark
401	A-1103-756-A	DRIVER BOARD, COMPLETE	
402	4-218-253-52	SCREW (M2.6), +BTTP	
403	1-687-669-12	SW BOARD	
404	4-244-034-01	BELT (LOADING)	
405	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING	
406	4-225-844-01	GEAR (LOADING A)	
407	4-224-613-01	GEAR (SHAFT)	
408	1-687-133-12	MOTOR (LD) BOARD	
409	4-244-108-01	GEAR, SWING	
410	4-224-609-01	GEAR (LOADING C)	
411	4-224-608-01	COLLAR, SWING	
412	3-016-533-11	WASHER (FR), STOPPER	
413	4-224-611-01	GEAR (LOADING B)	
414	4-224-606-01	GEAR (RV)	
415	4-243-818-01	GEAR (U/D)	

Ref. No.	Part No.	Description	Remark
416	2-541-918-01	LIFTER (H), LEVER	
417	4-243-817-41	CHASSIS	
418	2-345-983-01	PULLEY B (310), CHUCKING	
419	3-087-599-01	INSULATOR SCREW	
420	3-088-372-01	INSULATOR	
421	1-828-771-11	WIRE (FLAT TYPE) (24 CORE)	
⚠422	8-820-291-02	OPTICAL PICK-UP (KHM-310CAB/C2RP)	
423	4-250-098-11	CUSHION	
424	4-251-923-01	YOKE (310)	
425	2-345-982-01	PULLEY A (310), CHUCKING	
M751	A-4736-655-A	MOTOR ASSY, LOADING (LOADING)	
RE701	1-477-680-12	ENCODER, ROTARY (DISC TRAY ADDRESS DETECT)	

AUDIO

SECTION 9
ELECTRICAL PARTS LIST

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : μ, for example:
  uA.. : μA.. uPA.. : μPA..
  uPB.. : μPB.. uPC.. : μPC.. uPD.. : μPD..
- CAPACITORS
  uF : μF
- COILS
  uH : μH

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

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

- Abbreviation
  E2 : 120 V AC area in E model
  E3 : 240 V AC area in E model
  E12 : 220-240 V AC area in E model
  E13 : 220-230 V AC area in E model
  E15 : Iran model
  E51 : Chilean and Peruvian model
  AUS : Australian model
  EA : Saudi Arabia model
  PH : Philippine model
  SP : Singapore model
  MX : Mexican model
  TH : Thai model

Ref. No.	Part No.	Description			Remark
	A-1095-768-A	AUDIO BOARD, COMPLETE (GNZ9D:EXCEPT E2,TH)			
	A-1095-769-A	AUDIO BOARD, COMPLETE (GNZ8D:EXCEPT TH)			
	A-1095-770-A	AUDIO BOARD, COMPLETE (GNZ7D:EXCEPT E2,TH)			
	A-1111-480-A	AUDIO BOARD, COMPLETE (GNZ9D:TH)			
	A-1111-481-A	AUDIO BOARD, COMPLETE (GNZ8D:TH)			
	A-1111-482-A	AUDIO BOARD, COMPLETE (GNZ7D:TH)			
	A-1122-987-A	AUDIO BOARD, COMPLETE (GNZ9D:E2)			
	A-1122-988-A	AUDIO BOARD, COMPLETE (GNZ7D:E2)			
		**********			
		< CAPACITOR >			
C201	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C202	1-104-658-11	ELECT	100uF	20%	10V
C203	1-104-658-11	ELECT	100uF	20%	10V
C204	1-104-658-11	ELECT	100uF	20%	10V
C205	1-104-658-11	ELECT	100uF	20%	10V
C211	1-126-964-11	ELECT	10uF	20%	50V
C212	1-126-964-11	ELECT	10uF	20%	50V
C213	1-126-964-11	ELECT	10uF	20%	50V
C214	1-126-964-11	ELECT	10uF	20%	50V
C215	1-126-964-11	ELECT	10uF	20%	50V
C217	1-126-964-11	ELECT	10uF	20%	50V
C218	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C219	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C220	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C221	1-126-964-11	ELECT	10uF	20%	50V
C222	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C223	1-126-964-11	ELECT	10uF	20%	50V
C224	1-137-194-81	FILM	0.47uF	5%	50V
C225	1-137-194-81	FILM	0.47uF	5%	50V
C226	1-126-960-11	ELECT	1uF	20%	50V
C228	1-126-964-11	ELECT	10uF	20%	50V
C229	1-110-518-11	ELECT	10uF	20%	100V
C232	1-126-960-11	ELECT	1uF	20%	50V
C233	1-136-497-81	FILM	0.1uF	5%	50V (GNZ7D)
C234	1-137-190-11	FILM	0.22uF	5%	50V (GNZ7D)
C235	1-126-964-11	ELECT	10uF	20%	50V
C236	1-130-491-00	MYLAR	0.047uF	5%	50V
C237	1-126-964-11	ELECT	10uF	20%	50V
C239	1-126-959-11	ELECT	0.47uF	20%	50V
C240	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C241	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C245	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C246	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C251	1-126-964-11	ELECT	10uF	20%	50V
C252	1-126-964-11	ELECT	10uF	20%	50V
C253	1-126-964-11	ELECT	10uF	20%	50V
C254	1-126-964-11	ELECT	10uF	20%	50V
C255	1-126-964-11	ELECT	10uF	20%	50V
C256	1-126-964-11	ELECT	10uF	20%	50V
C257	1-126-964-11	ELECT	10uF	20%	50V
C258	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C259	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C260	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C261	1-126-964-11	ELECT	10uF	20%	50V
C262	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C263	1-126-964-11	ELECT	10uF	20%	50V
C264	1-137-194-81	FILM	0.47uF	5%	50V
C265	1-137-194-81	FILM	0.47uF	5%	50V
C266	1-126-960-11	ELECT	1uF	20%	50V
C268	1-126-964-11	ELECT	10uF	20%	50V
C269	1-110-518-11	ELECT	10uF	20%	100V
C273	1-126-964-11	ELECT	10uF	20%	50V
C274	1-126-960-11	ELECT	1uF	20%	50V
C281	1-126-964-11	ELECT	10uF	20%	50V
C282	1-104-658-11	ELECT	100uF	20%	10V
C283	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C285	1-126-961-11	ELECT	2.2uF	20%	50V
C286	1-104-658-11	ELECT	100uF	20%	10V
C301	1-104-658-11	ELECT	100uF	20%	10V (GNZ8D/GNZ9D)
C302	1-164-156-11	CERAMIC CHIP	0.1uF		25V (GNZ8D/GNZ9D)
C303	1-104-658-11	ELECT	100uF	20%	10V (GNZ8D/GNZ9D)
C304	1-104-658-11	ELECT	100uF	20%	10V (GNZ8D/GNZ9D)
C306	1-164-156-11	CERAMIC CHIP	0.1uF		25V (GNZ7D)
C307	1-126-923-11	ELECT	220uF	20%	10V (GNZ7D)
C311	1-126-964-11	ELECT	10uF	20%	50V
C312	1-126-964-11	ELECT	10uF	20%	50V

Ref. No.	Part No.	Description			Remark
C313	1-162-960-11	CERAMIC CHIP	220PF	10%	50V (GNZ8D/GNZ9D)
C314	1-162-960-11	CERAMIC CHIP	220PF	10%	50V (GNZ8D/GNZ9D)
C315	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V (GNZ8D/GNZ9D)
C316	1-126-964-11	ELECT	10uF	20%	50V
C321	1-126-964-11	ELECT	10uF	20%	50V
C322	1-126-964-11	ELECT	10uF	20%	50V
C323	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V (GNZ8D/GNZ9D)
C323	1-216-864-11	SHORT CHIP	0 (GNZ7D)		
C324	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (GNZ8D/GNZ9D)
C325	1-126-964-11	ELECT	10uF	20%	50V
C331	1-126-964-11	ELECT	10uF	20%	50V (GNZ8D/GNZ9D)
C332	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (GNZ8D/GNZ9D)
C333	1-126-964-11	ELECT	10uF	20%	50V (GNZ8D/GNZ9D)
C334	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (GNZ8D/GNZ9D)
C335	1-126-964-11	ELECT	10uF	20%	50V (GNZ8D/GNZ9D)
C336	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V (GNZ9D)
C337	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V (GNZ9D)
C338	1-126-964-11	ELECT	10uF	20%	50V (GNZ8D/GNZ9D)
C341	1-126-964-11	ELECT	10uF	20%	50V (GNZ8D/GNZ9D)
C342	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (GNZ8D/GNZ9D)
C343	1-126-964-11	ELECT	10uF	20%	50V (GNZ8D/GNZ9D)
C344	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (GNZ8D/GNZ9D)
C345	1-126-964-11	ELECT	10uF	20%	50V (GNZ8D/GNZ9D)
C351	1-126-964-11	ELECT	10uF	20%	50V
C352	1-126-964-11	ELECT	10uF	20%	50V
C353	1-162-960-11	CERAMIC CHIP	220PF	10%	50V (GNZ8D/GNZ9D)
C354	1-162-960-11	CERAMIC CHIP	220PF	10%	50V (GNZ8D/GNZ9D)
C356	1-126-964-11	ELECT	10uF	20%	50V
C361	1-126-964-11	ELECT	10uF	20%	50V
C362	1-126-964-11	ELECT	10uF	20%	50V
C363	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V (GNZ8D/GNZ9D)
C363	1-216-864-11	SHORT CHIP	0 (GNZ7D)		
C364	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (GNZ8D/GNZ9D)
C365	1-126-964-11	ELECT	10uF	20%	50V
C366	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (GNZ8D/GNZ9D)
C367	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C368	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C371	1-126-964-11	ELECT	10uF	20%	50V (GNZ8D/GNZ9D)
C372	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (GNZ8D/GNZ9D)
C373	1-126-964-11	ELECT	10uF	20%	50V (GNZ8D/GNZ9D)
C374	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (GNZ8D/GNZ9D)
C375	1-126-964-11	ELECT	10uF	20%	50V (GNZ8D/GNZ9D)
C376	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V (GNZ9D)
C377	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V (GNZ9D)
C378	1-126-964-11	ELECT	10uF	20%	50V (GNZ8D/GNZ9D)
C381	1-126-964-11	ELECT	10uF	20%	50V (GNZ8D/GNZ9D)
C382	1-126-964-11	ELECT	10uF	20%	50V (GNZ8D/GNZ9D)
C383	1-126-960-11	ELECT	1uF	20%	50V (GNZ8D/GNZ9D)
C384	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V (GNZ8D/GNZ9D)
C385	1-136-497-81	FILM	0.1uF	5%	50V (GNZ8D/GNZ9D)
C386	1-126-964-11	ELECT	10uF	20%	50V (GNZ8D/GNZ9D)
C388	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (GNZ7D/GNZ8D)
C391	1-126-964-11	ELECT	10uF	20%	50V (GNZ9D)
C392	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V (GNZ9D)
C393	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V (GNZ9D)
C394	1-104-658-11	ELECT	100uF	20%	10V (GNZ9D)
C601	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C602	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C603	1-136-155-00	FILM	0.015uF	5%	50V
C604	1-126-965-11	ELECT	22uF	20%	50V
C605	1-106-375-12	MYLAR	0.022uF	5%	200V
C611	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C612	1-100-670-11	CERAMIC CHIP	4.7uF	20%	16V
C613	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C614	1-126-963-11	ELECT	4.7uF	20%	50V
C615	1-137-150-11	FILM	0.01uF	5%	100V
C616	1-126-947-11	ELECT	47uF	20%	35V
C617	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C618	1-126-964-11	ELECT	10uF	20%	50V
C619	1-136-497-81	FILM	0.1uF	5%	50V
C620	1-126-960-11	ELECT	1uF	20%	50V
C621	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C622	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C623	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C624	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C651	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C652	1-100-670-11	CERAMIC CHIP	4.7uF	20%	16V
C653	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C654	1-126-963-11	ELECT	4.7uF	20%	50V
C655	1-137-150-11	FILM	0.01uF	5%	100V

AUDIO

Ref. No.	Part No.	Description			Remark
C656	1-126-947-11	ELECT	47uF	20%	35V
C657	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C658	1-126-964-11	ELECT	10uF	20%	50V
C659	1-136-497-81	FILM	0.1uF	5%	50V
C721	1-107-696-11	ELECT	47uF	20%	16V
C725	1-107-696-11	ELECT	47uF	20%	16V
C726	1-107-696-11	ELECT	47uF	20%	16V
C728	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C753	1-119-939-51	ELECT	6800uF	20%	35V
C763	1-111-235-61	ELECT	10000uF	20%	25V
C764	1-126-963-11	ELECT	4.7uF	20%	50V
C765	1-126-961-11	ELECT	2.2uF	20%	50V
C771	1-126-956-11	ELECT	0.1uF	20%	50V
C772	1-126-923-11	ELECT	220uF	20%	10V
C775	1-216-864-11	SHORT CHIP	0 (GNZ7D/GNZ8D)		
C776	1-216-864-11	SHORT CHIP	0		
C778	1-164-156-11	CERAMIC CHIP	0.1uF		25V (GNZ7D)
C781	1-126-963-11	ELECT	4.7uF	20%	50V (GNZ9D)
C783	1-162-974-11	CERAMIC CHIP	0.01uF		50V (GNZ9D)
C784	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V (GNZ9D)
C785	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V (GNZ9D)
C791	1-126-963-11	ELECT	4.7uF	20%	50V
C793	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C794	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C795	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
		< CONNECTOR >			
CN201	1-573-847-11	CONNECTOR, BOARD TO BOARD 15P			
CN202	1-573-847-11	CONNECTOR, BOARD TO BOARD 15P			
CN203	1-785-321-11	PIN, CONNECTOR (STRAIGHT) 9P			
CN301	1-779-283-11	CONNECTOR, FFC (LIF(NON-ZIF)) 15P			(GNZ8D/GNZ9D)
CN301	1-779-285-11	CONNECTOR, FFC (LIF(NON-ZIF)) 17P			(GNZ7D)
CN302	1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P			(GNZ8D/GNZ9D)
* CN303	1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P (GNZ9D)			
* CN601	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P			
* CN602	1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P			
* CN745	1-564-517-11	PLUG, CONNECTOR 2P (GNZ9D)			
CN751	1-785-322-11	PIN, CONNECTOR (STRAIGHT) 10P			
CN752	1-784-788-11	CONNECTOR, FFC 27P			
CN753	1-568-828-11	CONNECTOR, FFC 9P			
* CN754	1-564-518-11	PLUG, CONNECTOR 3P			
* CN755	1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P			
		< DIODE >			
D201	8-719-988-61	DIODE 1SS355TE-17			
D202	8-719-988-61	DIODE 1SS355TE-17			
D235	8-719-988-61	DIODE 1SS355TE-17			
D271	6-500-848-01	DIODE MC2840-T112-1			
D301	8-719-988-61	DIODE 1SS355TE-17 (GNZ8D/GNZ9D)			
D722	8-719-988-61	DIODE 1SS355TE-17			
D725	8-719-988-61	DIODE 1SS355TE-17			

Ref. No.	Part No.	Description	Remark
D726	8-719-988-61	DIODE 1SS355TE-17	
D727	8-719-988-61	DIODE 1SS355TE-17	
D728	8-719-988-61	DIODE 1SS355TE-17	
D751	8-719-028-23	DIODE D3SBA20-4101	
D753	6-500-335-01	DIODE MC2838-T112-1	
D761	8-719-028-23	DIODE D3SBA20-4101	
D762	8-719-988-61	DIODE 1SS355TE-17	
D763	6-500-335-01	DIODE MC2838-T112-1	
D771	6-500-522-21	DIODE 10EDB40-TB3	
D781	8-719-988-61	DIODE 1SS355TE-17 (GNZ9D)	
D783	8-719-083-63	DIODE UDZSTE-1713B (GNZ9D)	
D791	8-719-988-61	DIODE 1SS355TE-17	
D792	8-719-069-56	DIODE UDZSTE-176.2B	
D793	8-719-069-56	DIODE UDZSTE-176.2B	
		< GROUND TERMINAL >	
EPT751	1-537-771-21	TERMINAL BOARD, GROUND	
		< FERRITE BEAD >	
FB301	1-216-295-11	SHORT CHIP 0 (GNZ7D:EXCEPT TH)	
FB301	1-500-445-21	FERRITE, EMI (SMD) (2012) (GNZ7D:TH)	
		< IC >	
IC201	6-705-667-01	IC M61537FP-RF0G	
IC203	6-703-610-01	IC RT8H015C-T112-1	
IC301	6-703-651-11	IC M61530FP-D60G (GNZ8D/GNZ9D)	
IC303	8-759-710-97	IC NJM4565M-D (GNZ9D)	
IC305	8-749-019-25	IC TOTX141 (DVD DIGITAL OUT) (GNZ7D)	
IC771	6-703-547-01	IC TA7805LS	
		< JACK >	
J201	1-774-785-11	JACK, PIN 1P (SUB WOOFER OUT)	(GNZ7D/GNZ8D)
J202	1-816-918-11	JACK, PIN 4P (TV/SAT)	
		< JUMPER RESISTOR >	
JR211	1-216-837-11	METAL CHIP 22K 5% 1/10W	
JR221	1-216-864-11	SHORT CHIP 0	
JR251	1-216-837-11	METAL CHIP 22K 5% 1/10W	
JR261	1-216-864-11	SHORT CHIP 0	
JR304	1-216-864-11	SHORT CHIP 0	
JR305	1-216-864-11	SHORT CHIP 0	
JR382	1-216-864-11	SHORT CHIP 0 (GNZ7D)	
JW291	1-216-864-11	SHORT CHIP 0	
JW293	1-216-864-11	SHORT CHIP 0	
JW415	1-216-864-11	SHORT CHIP 0 (GNZ7D)	
JW416	1-216-864-11	SHORT CHIP 0 (GNZ7D)	
JW417	1-216-864-11	SHORT CHIP 0 (GNZ7D)	
		< COIL >	
L301	1-412-064-11	INDUCTOR 100uH (GNZ8D/GNZ9D)	
L302	1-408-619-31	INDUCTOR 220uH (GNZ7D)	
		< TRANSISTOR >	
Q212	8-729-905-35	TRANSISTOR 2SC4081-R	
Q252	8-729-905-35	TRANSISTOR 2SC4081-R	

Ref. No.	Part No.	Description	Remark
Q271	8-729-905-35	TRANSISTOR 2SC4081-R	
Q272	8-729-905-35	TRANSISTOR 2SC4081-R	
Q281	8-729-905-35	TRANSISTOR 2SC4081-R	
Q282	8-729-905-35	TRANSISTOR 2SC4081-R	
Q283	8-729-905-35	TRANSISTOR 2SC4081-R	
Q601	8-729-011-92	TRANSISTOR 2SC2001TP-K1K2	
Q602	8-729-026-53	TRANSISTOR 2SA1576A-T106-QR	
Q603	8-729-905-35	TRANSISTOR 2SC4081-R	
Q621	8-729-021-15	TRANSISTOR 2SD2351T106W	
Q622	8-729-021-15	TRANSISTOR 2SD2351T106W	
Q623	8-729-039-18	TRANSISTOR BCR183W-GEG-E6327	
Q624	8-729-039-14	TRANSISTOR BCR133W-GEG-E6327	
Q625	8-729-021-15	TRANSISTOR 2SD2351T106W	
Q626	8-729-021-15	TRANSISTOR 2SD2351T106W	
Q627	8-729-021-15	TRANSISTOR 2SD2351T106W	
Q628	8-729-021-15	TRANSISTOR 2SD2351T106W	
Q629	8-729-026-53	TRANSISTOR 2SA1576A-T106-QR	
Q630	8-729-039-14	TRANSISTOR BCR133W-GEG-E6327	
Q631	8-729-039-14	TRANSISTOR BCR133W-GEG-E6327	
Q701	8-729-021-15	TRANSISTOR 2SD2351T106W	
Q702	8-729-021-15	TRANSISTOR 2SD2351T106W	
Q703	8-729-021-15	TRANSISTOR 2SD2351T106W	
Q704	8-729-021-15	TRANSISTOR 2SD2351T106W	
Q705	8-729-021-15	TRANSISTOR 2SD2351T106W	
Q706	8-729-021-15	TRANSISTOR 2SD2351T106W	
Q711	8-729-021-15	TRANSISTOR 2SD2351T106W (GNZ8D/GNZ9D)	
Q712	8-729-021-15	TRANSISTOR 2SD2351T106W (GNZ8D/GNZ9D)	
Q713	8-729-021-15	TRANSISTOR 2SD2351T106W (GNZ8D/GNZ9D)	
Q714	8-729-021-15	TRANSISTOR 2SD2351T106W (GNZ9D)	
Q721	8-729-039-18	TRANSISTOR BCR183W-GEG-E6327	
Q722	8-729-039-14	TRANSISTOR BCR133W-GEG-E6327	
Q723	8-729-905-35	TRANSISTOR 2SC4081-R	
Q724	8-729-039-18	TRANSISTOR BCR183W-GEG-E6327	
Q727	8-729-039-18	TRANSISTOR BCR183W-GEG-E6327	
Q728	8-729-039-18	TRANSISTOR BCR183W-GEG-E6327	
Q729	8-729-039-18	TRANSISTOR BCR183W-GEG-E6327	
Q745	8-729-039-18	TRANSISTOR BCR183W-GEG-E6327 (GNZ9D)	
Q746	8-729-039-14	TRANSISTOR BCR133W-GEG-E6327 (GNZ9D)	
Q771	6-550-185-01	TRANSISTOR RT1P137P-TP-1	
Q772	8-729-039-14	TRANSISTOR BCR133W-GEG-E6327	
Q782	8-729-905-35	TRANSISTOR 2SC4081-R (GNZ9D)	
Q783	8-729-905-35	TRANSISTOR 2SC4081-R (GNZ9D)	
Q784	8-729-026-68	TRANSISTOR 2SD2525(TP) (GNZ9D)	
Q791	8-729-039-14	TRANSISTOR BCR133W-GEG-E6327	
Q792	8-729-905-35	TRANSISTOR 2SC4081-R	
Q793	8-729-905-35	TRANSISTOR 2SC4081-R	
Q794	8-729-026-68	TRANSISTOR 2SD2525(TP)	
Q795	8-729-039-14	TRANSISTOR BCR133W-GEG-E6327	
Q796	8-729-021-15	TRANSISTOR 2SD2351T106W (GNZ7D/GNZ8D)	
Q797	8-729-905-35	TRANSISTOR 2SC4081-R	

< RESISTOR >

R201	1-216-821-11	METAL CHIP	1K	5%	1/10W
R202	1-216-821-11	METAL CHIP	1K	5%	1/10W
R211	1-216-864-11	SHORT CHIP	0		
R212	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R213	1-216-833-11	METAL CHIP	10K	5%	1/10W
R214	1-216-833-11	METAL CHIP	10K	5%	1/10W
R215	1-216-821-11	METAL CHIP	1K	5%	1/10W
R216	1-216-841-11	METAL CHIP	47K	5%	1/10W
R221	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R222	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
⚠R223	1-215-890-11	METAL OXIDE	470	5%	2W F
R231	1-216-864-11	SHORT CHIP	0		
R232	1-216-833-11	METAL CHIP	10K	5%	1/10W
R233	1-216-821-11	METAL CHIP	1K	5%	1/10W
R234	1-216-821-11	METAL CHIP	1K	5%	1/10W
R235	1-216-837-11	METAL CHIP	22K	5%	1/10W
R236	1-216-837-11	METAL CHIP	22K	5%	1/10W
R237	1-216-833-11	METAL CHIP	10K	5%	1/10W
R238	1-216-845-11	METAL CHIP	100K	5%	1/10W
R239	1-216-857-11	METAL CHIP	1M	5%	1/10W
R240	1-216-821-11	METAL CHIP	1K	5%	1/10W
R241	1-216-864-11	SHORT CHIP	0		
R242	1-216-845-11	METAL CHIP	100K	5%	1/10W
R243	1-216-821-11	METAL CHIP	1K	5%	1/10W
R244	1-216-845-11	METAL CHIP	100K	5%	1/10W
R245	1-216-821-11	METAL CHIP	1K	5%	1/10W
R246	1-216-864-11	SHORT CHIP	0		
R247	1-216-845-11	METAL CHIP	100K	5%	1/10W
R248	1-216-821-11	METAL CHIP	1K	5%	1/10W
R249	1-216-845-11	METAL CHIP	100K	5%	1/10W
R251	1-216-864-11	SHORT CHIP	0		
R252	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R253	1-216-833-11	METAL CHIP	10K	5%	1/10W
R254	1-216-833-11	METAL CHIP	10K	5%	1/10W
R255	1-216-821-11	METAL CHIP	1K	5%	1/10W
R256	1-216-841-11	METAL CHIP	47K	5%	1/10W
R261	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R262	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
⚠R263	1-215-890-11	METAL OXIDE	470	5%	2W F
R271	1-216-821-11	METAL CHIP	1K	5%	1/10W
R272	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R273	1-216-837-11	METAL CHIP	22K	5%	1/10W
R274	1-216-833-11	METAL CHIP	10K	5%	1/10W
R275	1-216-845-11	METAL CHIP	100K	5%	1/10W
R276	1-216-833-11	METAL CHIP	10K	5%	1/10W
R277	1-216-841-11	METAL CHIP	47K	5%	1/10W
R282	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R301	1-216-809-11	METAL CHIP	100	5%	1/10W (GNZ8D/GNZ9D)
R302	1-216-809-11	METAL CHIP	100	5%	1/10W (GNZ8D/GNZ9D)
R311	1-216-864-11	SHORT CHIP	0		
R312	1-216-845-11	METAL CHIP	100K	5%	1/10W
R313	1-216-817-11	METAL CHIP	470	5%	1/10W (GNZ8D/GNZ9D)
R313	1-216-864-11	SHORT CHIP	0 (GNZ7D)		
R314	1-216-841-11	METAL CHIP	47K	5%	1/10W (GNZ8D/GNZ9D)
R315	1-216-833-11	METAL CHIP	10K	5%	1/10W (GNZ8D/GNZ9D)
R315	1-216-864-11	SHORT CHIP	0 (GNZ7D)		
R316	1-216-857-11	METAL CHIP	1M	5%	1/10W (GNZ8D/GNZ9D)
R317	1-216-864-11	SHORT CHIP	0		

AUDIO

Ref. No.	Part No.	Description			Remark
R318	1-216-857-11	METAL CHIP	1M	5%	1/10W (GNZ8D/GNZ9D)
R321	1-216-864-11	SHORT CHIP	0		
R322	1-216-845-11	METAL CHIP	100K	5%	1/10W
R323	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R324	1-216-841-11	METAL CHIP	47K	5%	1/10W (GNZ8D/GNZ9D)
R325	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GNZ8D/GNZ9D)
R331	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GNZ8D/GNZ9D)
R332	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GNZ8D/GNZ9D)
R333	1-216-833-11	METAL CHIP	10K	5%	1/10W (GNZ8D/GNZ9D)
R334	1-216-841-11	METAL CHIP	47K	5%	1/10W (GNZ8D/GNZ9D)
R335	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GNZ9D)
R337	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GNZ8D/GNZ9D)
R338	1-216-845-11	METAL CHIP	100K	5%	1/10W (GNZ8D/GNZ9D)
R341	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GNZ8D/GNZ9D)
R342	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GNZ8D/GNZ9D)
R343	1-216-833-11	METAL CHIP	10K	5%	1/10W (GNZ8D/GNZ9D)
R347	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GNZ8D/GNZ9D)
R348	1-216-845-11	METAL CHIP	100K	5%	1/10W (GNZ8D/GNZ9D)
R351	1-216-864-11	SHORT CHIP	0		
R352	1-216-845-11	METAL CHIP	100K	5%	1/10W
R353	1-216-817-11	METAL CHIP	470	5%	1/10W (GNZ8D/GNZ9D)
R353	1-216-864-11	SHORT CHIP	0 (GNZ7D)		
R354	1-216-841-11	METAL CHIP	47K	5%	1/10W (GNZ8D/GNZ9D)
R355	1-216-833-11	METAL CHIP	10K	5%	1/10W (GNZ8D/GNZ9D)
R355	1-216-864-11	SHORT CHIP	0 (GNZ7D)		
R357	1-216-864-11	SHORT CHIP	0		
R361	1-216-864-11	SHORT CHIP	0		
R362	1-216-845-11	METAL CHIP	100K	5%	1/10W
R363	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R364	1-216-841-11	METAL CHIP	47K	5%	1/10W (GNZ8D/GNZ9D)
R365	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GNZ8D/GNZ9D)
R371	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GNZ8D/GNZ9D)
R372	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GNZ8D/GNZ9D)
R373	1-216-833-11	METAL CHIP	10K	5%	1/10W (GNZ8D/GNZ9D)
R374	1-216-841-11	METAL CHIP	47K	5%	1/10W (GNZ8D/GNZ9D)
R375	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GNZ9D)
R377	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GNZ8D/GNZ9D)
R378	1-216-845-11	METAL CHIP	100K	5%	1/10W (GNZ8D/GNZ9D)
R381	1-216-841-11	METAL CHIP	47K	5%	1/10W (GNZ8D/GNZ9D)
R382	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ8D)
R382	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W (GNZ9D)
R383	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ8D)
R383	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W (GNZ9D)
R384	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GNZ7D/GNZ8D)
R385	1-216-845-11	METAL CHIP	100K	5%	1/10W (GNZ7D/GNZ8D)
R387	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GNZ9D)
R391	1-216-841-11	METAL CHIP	47K	5%	1/10W (GNZ9D)
R392	1-216-833-11	METAL CHIP	10K	5%	1/10W (GNZ9D)
R393	1-216-837-11	METAL CHIP	22K	5%	1/10W (GNZ9D)
R394	1-216-823-11	METAL CHIP	1.5K	5%	1/10W (GNZ9D)
R395	1-216-833-11	METAL CHIP	10K	5%	1/10W (GNZ9D)
R396	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ7D/GNZ8D)
R397	1-216-841-11	METAL CHIP	47K	5%	1/10W (GNZ9D)
R601	1-216-838-11	METAL CHIP	27K	5%	1/10W
R602	1-216-295-11	SHORT CHIP	0		
R603	1-216-833-11	METAL CHIP	10K	5%	1/10W
R604	1-216-833-11	METAL CHIP	10K	5%	1/10W
R611	1-216-821-11	METAL CHIP	1K	5%	1/10W
R612	1-216-821-11	METAL CHIP	1K	5%	1/10W
R613	1-216-851-11	METAL CHIP	330K	5%	1/10W
R614	1-216-835-11	METAL CHIP	15K	5%	1/10W
R615	1-216-812-11	METAL CHIP	180	5%	1/10W
R616	1-216-834-11	METAL CHIP	12K	5%	1/10W
R617	1-216-835-11	METAL CHIP	15K	5%	1/10W
R618	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R620	1-216-857-11	METAL CHIP	1M	5%	1/10W
R621	1-216-821-11	METAL CHIP	1K	5%	1/10W
R622	1-216-821-11	METAL CHIP	1K	5%	1/10W
R623	1-216-821-11	METAL CHIP	1K	5%	1/10W
R624	1-216-821-11	METAL CHIP	1K	5%	1/10W
R625	1-216-821-11	METAL CHIP	1K	5%	1/10W
R626	1-216-821-11	METAL CHIP	1K	5%	1/10W
R627	1-216-833-11	METAL CHIP	10K	5%	1/10W
R628	1-216-833-11	METAL CHIP	10K	5%	1/10W
R629	1-216-833-11	METAL CHIP	10K	5%	1/10W
R632	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R639	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R651	1-216-821-11	METAL CHIP	1K	5%	1/10W
R652	1-216-821-11	METAL CHIP	1K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R653	1-216-851-11	METAL CHIP	330K	5%	1/10W
R654	1-216-835-11	METAL CHIP	15K	5%	1/10W
R655	1-216-812-11	METAL CHIP	180	5%	1/10W
R656	1-216-834-11	METAL CHIP	12K	5%	1/10W
R657	1-216-835-11	METAL CHIP	15K	5%	1/10W
R658	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R659	1-216-797-11	METAL CHIP	10	5%	1/10W
R701	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R702	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R703	1-216-821-11	METAL CHIP	1K	5%	1/10W
R704	1-216-821-11	METAL CHIP	1K	5%	1/10W
R705	1-216-821-11	METAL CHIP	1K	5%	1/10W
R706	1-216-821-11	METAL CHIP	1K	5%	1/10W
R711	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GNZ8D/GNZ9D)
R712	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GNZ8D/GNZ9D)
R713	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GNZ8D/GNZ9D)
R714	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GNZ9D)
R715	1-216-821-11	METAL CHIP	1K	5%	1/10W (E2)
R715	1-216-864-11	SHORT CHIP	0 (EXCEPT E2)		
R716	1-216-837-11	METAL CHIP	22K	5%	1/10W (E2)
R717	1-216-821-11	METAL CHIP	1K	5%	1/10W (E2)
R717	1-216-864-11	SHORT CHIP	0 (EXCEPT E2)		
R718	1-216-837-11	METAL CHIP	22K	5%	1/10W (E2)
R721	1-216-821-11	METAL CHIP	1K	5%	1/10W
R723	1-216-821-11	METAL CHIP	1K	5%	1/10W
R724	1-216-833-11	METAL CHIP	10K	5%	1/10W
R725	1-216-833-11	METAL CHIP	10K	5%	1/10W
R726	1-216-821-11	METAL CHIP	1K	5%	1/10W
R727	1-216-841-11	METAL CHIP	47K	5%	1/10W
R734	1-216-833-11	METAL CHIP	10K	5%	1/10W
R735	1-216-864-11	SHORT CHIP	0		
R736	1-216-841-11	METAL CHIP	47K	5%	1/10W
R737	1-216-833-11	METAL CHIP	10K	5%	1/10W
R738	1-216-864-11	SHORT CHIP	0		
R739	1-216-841-11	METAL CHIP	47K	5%	1/10W
R740	1-216-833-11	METAL CHIP	10K	5%	1/10W
R741	1-216-864-11	SHORT CHIP	0		
R742	1-216-841-11	METAL CHIP	47K	5%	1/10W
R745	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ9D)
R751	1-216-809-11	METAL CHIP	100	5%	1/10W
R752	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R753	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R762	1-216-837-11	METAL CHIP	22K	5%	1/10W
R763	1-216-837-11	METAL CHIP	22K	5%	1/10W
R764	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R765	1-216-809-11	METAL CHIP	100	5%	1/10W
R767	1-216-809-11	METAL CHIP	100	5%	1/10W
R768	1-216-809-11	METAL CHIP	100	5%	1/10W
R769	1-216-809-11	METAL CHIP	100	5%	1/10W

Ref. No.	Part No.	Description			Remark
R781	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GNZ9D)
R782	1-216-841-11	METAL CHIP	47K	5%	1/10W (GNZ9D)
R783	1-216-849-11	METAL CHIP	220K	5%	1/10W (GNZ9D)
R784	1-216-837-11	METAL CHIP	22K	5%	1/10W (GNZ9D)
R785	1-216-837-11	METAL CHIP	22K	5%	1/10W (GNZ9D)
R790	1-216-809-11	METAL CHIP	100	5%	1/10W
R791	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R792	1-216-841-11	METAL CHIP	47K	5%	1/10W
R793	1-216-849-11	METAL CHIP	220K	5%	1/10W
R794	1-216-837-11	METAL CHIP	22K	5%	1/10W
R795	1-216-837-11	METAL CHIP	22K	5%	1/10W
R796	1-216-833-11	METAL CHIP	10K	5%	1/10W
R798	1-216-809-11	METAL CHIP	100	5%	1/10W
R799	1-216-833-11	METAL CHIP	10K	5%	1/10W
		< TRANSFORMER >			
T601	1-437-220-11	TRANSFORMER, BIAS OSCILLATION			
**********					
	A-1095-784-A	DMB10 BOARD, COMPLETE (GNZ9D:PH,SP)			
	A-1095-785-A	DMB10 BOARD, COMPLETE (GNZ9D:E3,E12,E13,E15)			
	A-1095-786-A	DMB10 BOARD, COMPLETE (GNZ9D:E2,E51,MX)			
	A-1095-787-A	DMB10 BOARD, COMPLETE (GNZ8D:PH,SP)			
	A-1095-788-A	DMB10 BOARD, COMPLETE (GNZ8D:E3,E12,E13,E15)			
	A-1095-789-A	DMB10 BOARD, COMPLETE (GNZ7D:PH,SP)			
	A-1095-790-A	DMB10 BOARD, COMPLETE (GNZ7D:E3,E12,E13,E15)			
	A-1095-791-A	DMB10 BOARD, COMPLETE (GNZ7D:E2)			
	A-1111-492-A	DMB10 BOARD, COMPLETE (GNZ9D:TH)			
	A-1111-493-A	DMB10 BOARD, COMPLETE (GNZ8D:TH)			
	A-1111-494-A	DMB10 BOARD, COMPLETE (GNZ7D:TH)			
	A-1134-215-A	DMB10 BOARD, COMPLETE (GNZ9D:AUS,EA)			
	A-1134-216-A	DMB10 BOARD, COMPLETE (GNZ8D:EA)			
	A-1134-217-A	DMB10 BOARD, COMPLETE (GNZ7D:EA)			
		**********			
		< CAPACITOR >			
C101	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C102	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C105	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C106	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C108	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C109	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C112	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C113	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C114	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C115	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C116	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C117	1-124-779-00	ELECT CHIP	10uF	20%	16V
C118	1-124-779-00	ELECT CHIP	10uF	20%	16V
C119	1-124-779-00	ELECT CHIP	10uF	20%	16V
C120	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C121	1-165-908-11	CERAMIC CHIP	1uF	10%	10V

☆ New part of EEP ROM (IC103) on the DMB10 board or DMB11 board cannot be used. Therefore, if the mounted DMB10 board (A-1095-784-A, etc.) is replaced, exchange new EEP ROM (IC103) with that used before the replacement.

Ref. No.	Part No.	Description			Remark
C122	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C123	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C124	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C125	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C126	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C127	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C128	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C129	1-124-779-00	ELECT CHIP	10uF	20%	16V
C130	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C131	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
C132	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C133	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C135	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C136	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C137	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C138	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C139	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C140	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C141	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (DMB10)
C142	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (DMB10)
C143	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (DMB10)
C144	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C145	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (DMB10)
C146	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C147	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C148	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C149	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C150	1-124-779-00	ELECT CHIP	10uF	20%	16V
C151	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C152	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C153	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C154	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C155	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C156	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C158	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C159	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C160	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C161	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C162	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C163	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C164	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C167	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C170	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C171	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C172	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C173	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C174	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C175	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C176	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C177	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C178	1-126-208-21	ELECT CHIP	47uF	20%	4V
C179	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C180	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C181	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C182	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C184	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C187	1-126-208-21	ELECT CHIP	47uF	20%	4V

Ref. No.	Part No.	Description			Remark
C188	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C189	1-128-934-11	CERAMIC CHIP	0.33uF	20%	10V
C190	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C191	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C192	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C193	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C195	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C196	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C203	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C205	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C206	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C208	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C209	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C210	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C211	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C212	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C213	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C214	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C215	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C217	1-126-204-11	ELECT CHIP	47uF	20%	16V
C218	1-124-779-00	ELECT CHIP	10uF	20%	16V
C219	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C220	1-124-779-00	ELECT CHIP	10uF	20%	16V
C221	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C222	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C224	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C233	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C301	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C302	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C305	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C306	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C307	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C402	1-126-204-11	ELECT CHIP	47uF	20%	16V
C403	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C3701	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3702	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3703	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (GNZ8D/GNZ9D)
C3704	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (GNZ8D/GNZ9D)
C3705	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (GNZ8D/GNZ9D)
C3706	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (GNZ8D/GNZ9D)
C3707	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3708	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3711	1-162-977-11	CERAMIC CHIP	0.0018uF	10%	50V
C3712	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C3713	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3714	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3721	1-162-977-11	CERAMIC CHIP	0.0018uF	10%	50V
C3722	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C3723	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3724	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3731	1-162-977-11	CERAMIC CHIP	0.0018uF	10%	50V (GNZ8D/GNZ9D)
C3732	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V (GNZ8D/GNZ9D)
C3733	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (GNZ8D/GNZ9D)
C3734	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (GNZ8D/GNZ9D)

Ref. No.	Part No.	Description				Remark
C3741	1-162-977-11	CERAMIC CHIP	0.0018uF	10%	50V	(GNZ8D/GNZ9D)
C3742	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V	(GNZ8D/GNZ9D)
C3743	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	(GNZ8D/GNZ9D)
C3744	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	(GNZ8D/GNZ9D)
C3751	1-162-977-11	CERAMIC CHIP	0.0018uF	10%	50V	(GNZ8D/GNZ9D)
C3752	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V	(GNZ8D/GNZ9D)
C3753	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	(GNZ8D/GNZ9D)
C3754	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	(GNZ8D/GNZ9D)
C3761	1-162-977-11	CERAMIC CHIP	0.0018uF	10%	50V	(GNZ8D/GNZ9D)
C3762	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V	(GNZ8D/GNZ9D)
C3763	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	(GNZ8D/GNZ9D)
C3764	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	(GNZ8D/GNZ9D)
C3771	1-162-977-11	CERAMIC CHIP	0.0018uF	10%	50V	
C3772	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V	
C3773	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C3774	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C3781	1-162-977-11	CERAMIC CHIP	0.0018uF	10%	50V	
C3782	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V	
C3783	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C3784	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C3801	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	
C3802	1-117-370-11	CERAMIC CHIP	10uF		10V	
C3803	1-126-205-11	ELECT CHIP	47uF	20%	6.3V	
C3804	1-126-205-11	ELECT CHIP	47uF	20%	6.3V	
C3805	1-126-208-21	ELECT CHIP	47uF	20%	4V	
		< CONNECTOR >				
CN101	1-815-763-32	CONNECTOR, FFC/FPC 24P				
* CN105	1-770-470-21	PIN, CONNECTOR (PC BOARD) 6P				
CN106	1-793-989-21	CONNECTOR, FFC/FPC 13P				
* CN201	1-770-470-21	PIN, CONNECTOR (PC BOARD) 6P				
CN301	1-793-989-21	CONNECTOR, FFC/FPC 13P				
CN302	1-784-374-21	CONNECTOR, FFC/FPC 15P (GNZ8D/GNZ9D)				
CN302	1-784-376-11	CONNECTOR, FFC/FPC 17P (GNZ7D)				
CN401	1-779-993-11	PIN, CONNECTOR (PWB) 5P				
		< DIODE >				
D1001	8-719-058-24	DIODE RB501V-40TE-17				
D3501	6-501-193-01	DIODE 1SS355WTE-17				
D3502	6-501-193-01	DIODE 1SS355WTE-17				
		< FERRITE BEAD >				
FB111	1-414-226-21	INDUCTOR, FERRITE BEAD				
FB112	1-414-226-21	INDUCTOR, FERRITE BEAD				
FB113	1-414-226-21	INDUCTOR, FERRITE BEAD				
FB114	1-414-226-21	INDUCTOR, FERRITE BEAD				
FB115	1-414-226-21	INDUCTOR, FERRITE BEAD				
FB401	1-469-324-21	FERRITE, EMI (SMD) (2012)				

Ref. No.	Part No.	Description	Remark
FB402	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB403	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB404	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB405	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB406	1-469-324-21	FERRITE, EMI (SMD) (2012)	
		< FILTER >	
FL101	1-234-177-21	FILTER, CHIP EMI	
FL104	1-234-177-21	FILTER, CHIP EMI	
FL105	1-234-177-21	FILTER, CHIP EMI	
FL106	1-234-177-21	FILTER, CHIP EMI	
FL107	1-234-177-21	FILTER, CHIP EMI	
FL108	1-234-177-21	FILTER, CHIP EMI	
FL401	1-234-177-21	FILTER, CHIP EMI	
FL402	1-233-893-21	FILTER, CHIP EMI	
FL403	1-234-177-21	FILTER, CHIP EMI	
		< IC >	
IC101	6-805-743-01	IC MX29LV320ABTC65-CBA2-0503UC (DMB10)	(GNZ9D:E2,E51,MX)
IC101	6-805-744-01	IC MX29LV320ABTC65-CBA2-0503CE (DMB10)	(GNZ8D:E3,E12,E13,E15,EA/GNZ9D:E3,E12,E13,E15,AUS,EA)
IC101	6-805-745-01	IC MX29LV320ABTC65-CBA2-0503GA (DMB10)	(GNZ8D:PH,SP,TH/GNZ9D:PH,SP,TH)
IC101	6-805-761-01	IC MX29LV320ABTC65-CBA3-0503UC (DMB10)	(GNZ7D:E2)
IC101	6-805-762-01	IC MX29LV320ABTC65-CBA3-0503CE (DMB10)	(GNZ7D:E3,E12,E13,E15,EA)
IC101	6-805-763-01	IC MX29LV320ABTC65-CBA3-0503GA (DMB10)	(GNZ7D:PH,SP,TH)
IC101	6-805-774-01	IC MX29LV320ABTC65-CBA2-0504UC (DMB11)	(GNZ9D:E2,E51,MX)
IC101	6-805-775-01	IC MX29LV320ABTC65-CBA2-0504CE (DMB11)	(GNZ8D:E3,E12,E13,E15,EA/GNZ9D:E3,E12,E13,E15,AUS,EA)
IC101	6-805-776-01	IC MX29LV320ABTC65-CBA2-0504GA (DMB11)	(GNZ8D:PH,SP,TH/GNZ9D:PH,SP,TH)
IC101	6-805-779-01	IC MX29LV320ABTC65-CBA3-0504UC (DMB11)	(GNZ7D:E2)
IC101	6-805-780-01	IC MX29LV320ABTC65-CBA3-0504CE (DMB11)	(GNZ7D:E3,E12,E13,E15,EA)
IC101	6-805-781-01	IC MX29LV320ABTC65-CBA3-0504GA (DMB11)	(GNZ7D:PH,SP,TH)
IC102	6-706-727-01	IC CXD9804R (DMB10)	
IC102	6-707-535-01	IC CXD9849R (DMB11)	
☆ IC103	(Not supplied)	IC BR24L64F-WE2	
IC104	6-705-929-01	IC K4S641632H-UC75T	
IC105	6-702-302-01	IC TK11133CSCL-G	
IC106	6-708-153-01	IC PQ018EN01ZPH	
IC107	6-702-302-01	IC TK11133CSCL-G	
IC201	6-704-524-01	IC FAN8036L	
IC301	6-704-222-01	IC AK4358VQ-L	
IC3711	8-759-359-49	IC NJM3414AV(TE2)	
IC3731	8-759-359-49	IC NJM3414AV(TE2) (GNZ8D/GNZ9D)	
IC3751	8-759-359-49	IC NJM3414AV(TE2) (GNZ8D/GNZ9D)	
IC3771	8-759-359-49	IC NJM3414AV(TE2)	
		< TRANSISTOR >	
Q101	6-550-008-01	TRANSISTOR UM6K1N-TN	
Q102	6-550-653-01	TRANSISTOR QST8TR	

☆ New part of EEP ROM (IC103) on the DMB10 board or DMB11 board cannot be used. Therefore, if the mounted DMB10 board (A-1095-784-A, etc.) is replaced, exchange new EEP ROM (IC103) with that used before the replacement.

Ref. No.	Part No.	Description			Remark
Q103	8-729-901-00	TRANSISTOR	DTC124EK		
Q3801	8-729-230-49	TRANSISTOR	2SC2712-YG		
		< RESISTOR >			
R101	1-216-809-11	METAL CHIP	100	5%	1/10W
R104	1-216-864-11	SHORT CHIP	0		
R105	1-216-833-11	METAL CHIP	10K	5%	1/10W
R106	1-216-833-11	METAL CHIP	10K	5%	1/10W
R107	1-216-833-11	METAL CHIP	10K	5%	1/10W
R108	1-216-857-11	METAL CHIP	1M	5%	1/10W
R109	1-216-864-11	SHORT CHIP	0		
R110	1-216-841-11	METAL CHIP	47K	5%	1/10W
R111	1-216-809-11	METAL CHIP	100	5%	1/10W
R112	1-211-977-11	METAL CHIP	22	0.5%	1/10W
R113	1-211-977-11	METAL CHIP	22	0.5%	1/10W
R114	1-216-845-11	METAL CHIP	100K	5%	1/10W
R115	1-211-977-11	METAL CHIP	22	0.5%	1/10W
R116	1-216-821-11	METAL CHIP	1K	5%	1/10W
R117	1-216-841-11	METAL CHIP	47K	5%	1/10W
R118	1-216-801-11	METAL CHIP	22	5%	1/10W
R120	1-216-801-11	METAL CHIP	22	5%	1/10W
R121	1-216-801-11	METAL CHIP	22	5%	1/10W
R123	1-216-864-11	SHORT CHIP	0		
R124	1-216-841-11	METAL CHIP	47K	5%	1/10W
R126	1-216-864-11	SHORT CHIP	0		
R127	1-216-809-11	METAL CHIP	100	5%	1/10W
R133	1-216-827-11	METAL CHIP	3.3K	5%	1/10W (DMB10)
R134	1-216-827-11	METAL CHIP	3.3K	5%	1/10W (DMB10)
R135	1-216-827-11	METAL CHIP	3.3K	5%	1/10W (DMB10)
R136	1-216-835-11	METAL CHIP	15K	5%	1/10W
R138	1-216-845-11	METAL CHIP	100K	5%	1/10W
R141	1-218-916-11	METAL CHIP	750K	0.5%	1/10W
R142	1-216-845-11	METAL CHIP	100K	5%	1/10W
R143	1-216-809-11	METAL CHIP	100	5%	1/10W (GNZ7D:TH)
R143	1-469-116-21	FERRITE, EMI (SMD) (1608)			(GNZ7D:EXCEPT TH)
R144	1-216-864-11	SHORT CHIP	0		
R146	1-216-805-11	METAL CHIP	47	5%	1/10W
R151	1-216-805-11	METAL CHIP	47	5%	1/10W
R152	1-216-864-11	SHORT CHIP	0		
R153	1-216-805-11	METAL CHIP	47	5%	1/10W
R155	1-216-805-11	METAL CHIP	47	5%	1/10W
R160	1-216-805-11	METAL CHIP	47	5%	1/10W
R161	1-216-809-11	METAL CHIP	100	5%	1/10W
R164	1-216-809-11	METAL CHIP	100	5%	1/10W
R169	1-216-833-11	METAL CHIP	10K	5%	1/10W
R187	1-216-864-11	SHORT CHIP	0		
R189	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R190	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R191	1-216-821-11	METAL CHIP	1K	5%	1/10W
R192	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R193	1-216-821-11	METAL CHIP	1K	5%	1/10W
R195	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R196	1-216-864-11	SHORT CHIP	0		
R197	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R204	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R205	1-216-833-11	METAL CHIP	10K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R206	1-216-833-11	METAL CHIP	10K	5%	1/10W
R207	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R208	1-216-839-11	METAL CHIP	33K	5%	1/10W
R209	1-216-839-11	METAL CHIP	33K	5%	1/10W
R210	1-216-841-11	METAL CHIP	47K	5%	1/10W
R212	1-216-833-11	METAL CHIP	10K	5%	1/10W
R213	1-218-867-11	METAL CHIP	6.8K	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
R219	1-216-838-11	METAL CHIP	27K	5%	1/10W
R220	1-216-833-11	METAL CHIP	10K	5%	1/10W
R221	1-218-889-11	METAL CHIP	56K	0.5%	1/10W
R223	1-218-895-11	METAL CHIP	100K	0.5%	1/10W
R224	1-216-833-11	METAL CHIP	10K	5%	1/10W
R225	1-218-895-11	METAL CHIP	100K	0.5%	1/10W
R226	1-218-889-11	METAL CHIP	56K	0.5%	1/10W
R230	1-218-893-11	METAL CHIP	82K	0.5%	1/10W
R231	1-218-875-11	METAL CHIP	15K	0.5%	1/10W
R232	1-218-877-11	METAL CHIP	18K	0.5%	1/10W
R233	1-218-883-11	METAL CHIP	33K	0.5%	1/10W
R234	1-216-833-11	METAL CHIP	10K	5%	1/10W
R246	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R247	1-216-821-11	METAL CHIP	1K	5%	1/10W
R314	1-216-809-11	METAL CHIP	100	5%	1/10W
R318	1-216-864-11	SHORT CHIP	0		
R319	1-216-864-11	SHORT CHIP	0		
R321	1-216-864-11	SHORT CHIP	0		
R1101	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1102	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R1103	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1104	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1105	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1107	1-216-864-11	SHORT CHIP	0 (DMB10)		
R1108	1-216-833-11	METAL CHIP	10K	5%	1/10W (DMB10)
R1109	1-216-864-11	SHORT CHIP	0		
R1110	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R1120	1-216-864-11	SHORT CHIP	0		
R1121	1-216-864-11	SHORT CHIP	0		
R1122	1-216-864-11	SHORT CHIP	0		
R1123	1-216-864-11	SHORT CHIP	0		
R1124	1-216-864-11	SHORT CHIP	0		
R1125	1-216-864-11	SHORT CHIP	0		
R1126	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1129	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1133	1-216-864-11	SHORT CHIP	0		
R1134	1-216-864-11	SHORT CHIP	0		
R1150	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1151	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1152	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1161	1-216-864-11	SHORT CHIP	0		
R1168	1-216-817-11	METAL CHIP	470	5%	1/10W
R1502	1-216-864-11	SHORT CHIP	0 (EXCEPT AUS,EA)		
R1502	1-469-116-21	FERRITE, EMI (SMD) (1608) (AUS,EA)			
R1504	1-216-864-11	SHORT CHIP	0		
R1524	1-216-864-11	SHORT CHIP	0 (EXCEPT AUS,EA)		
R1524	1-469-116-21	FERRITE, EMI (SMD) (1608) (AUS,EA)			
R1526	1-216-864-11	SHORT CHIP	0 (EXCEPT AUS,EA)		
R1526	1-469-116-21	FERRITE, EMI (SMD) (1608) (AUS,EA)			
R1530	1-216-864-11	SHORT CHIP	0		

Ref. No.	Part No.	Description			Remark
R1531	1-216-864-11	SHORT CHIP	0		
R1540	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1542	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1543	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1544	1-216-864-11	SHORT CHIP	0		
R1546	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1547	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1548	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1549	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1550	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1551	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1552	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1553	1-216-864-11	SHORT CHIP	0		
R1554	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1557	1-216-809-11	METAL CHIP	100	5%	1/10W
R2504	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3501	1-216-809-11	METAL CHIP	100	5%	1/10W (GNZ7D:EXCEPT TH)
R3501	1-216-864-11	SHORT CHIP	0 (GNZ7D:TH)		
R3652	1-216-864-11	SHORT CHIP	0		
R3653	1-216-864-11	SHORT CHIP	0		
R3711	1-218-271-11	METAL CHIP	2K	5%	1/10W
R3712	1-218-271-11	METAL CHIP	2K	5%	1/10W
R3713	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R3714	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R3715	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3716	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3717	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3718	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3719	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3721	1-218-271-11	METAL CHIP	2K	5%	1/10W
R3722	1-218-271-11	METAL CHIP	2K	5%	1/10W
R3723	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R3724	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R3725	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3726	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3727	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3728	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3729	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3731	1-218-271-11	METAL CHIP	2K	5%	1/10W (GNZ8D/GNZ9D)
R3732	1-218-271-11	METAL CHIP	2K	5%	1/10W (GNZ8D/GNZ9D)
R3733	1-216-827-11	METAL CHIP	3.3K	5%	1/10W (GNZ8D/GNZ9D)
R3734	1-216-827-11	METAL CHIP	3.3K	5%	1/10W (GNZ8D/GNZ9D)
R3735	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GNZ8D/GNZ9D)
R3736	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ8D/GNZ9D)
R3737	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ8D/GNZ9D)
R3738	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GNZ8D/GNZ9D)
R3739	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ8D/GNZ9D)
R3741	1-218-271-11	METAL CHIP	2K	5%	1/10W (GNZ8D/GNZ9D)
R3742	1-218-271-11	METAL CHIP	2K	5%	1/10W (GNZ8D/GNZ9D)
R3743	1-216-827-11	METAL CHIP	3.3K	5%	1/10W (GNZ8D/GNZ9D)
R3744	1-216-827-11	METAL CHIP	3.3K	5%	1/10W (GNZ8D/GNZ9D)
R3745	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GNZ8D/GNZ9D)
R3746	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ8D/GNZ9D)
R3747	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ8D/GNZ9D)
R3748	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GNZ8D/GNZ9D)
R3749	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ8D/GNZ9D)
R3751	1-218-271-11	METAL CHIP	2K	5%	1/10W (GNZ8D/GNZ9D)
R3752	1-218-271-11	METAL CHIP	2K	5%	1/10W (GNZ8D/GNZ9D)
R3753	1-216-827-11	METAL CHIP	3.3K	5%	1/10W (GNZ8D/GNZ9D)
R3754	1-216-827-11	METAL CHIP	3.3K	5%	1/10W (GNZ8D/GNZ9D)
R3755	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GNZ8D/GNZ9D)
R3756	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ8D/GNZ9D)
R3757	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ8D/GNZ9D)
R3758	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GNZ8D/GNZ9D)
R3759	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ8D/GNZ9D)
R3761	1-218-271-11	METAL CHIP	2K	5%	1/10W (GNZ8D/GNZ9D)
R3762	1-218-271-11	METAL CHIP	2K	5%	1/10W (GNZ8D/GNZ9D)
R3763	1-216-827-11	METAL CHIP	3.3K	5%	1/10W (GNZ8D/GNZ9D)
R3764	1-216-827-11	METAL CHIP	3.3K	5%	1/10W (GNZ8D/GNZ9D)
R3765	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GNZ8D/GNZ9D)
R3766	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ8D/GNZ9D)
R3767	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ8D/GNZ9D)
R3768	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GNZ8D/GNZ9D)
R3769	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ8D/GNZ9D)
R3771	1-218-271-11	METAL CHIP	2K	5%	1/10W
R3772	1-218-271-11	METAL CHIP	2K	5%	1/10W
R3773	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R3774	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R3775	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3776	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3777	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3778	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3779	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3781	1-218-271-11	METAL CHIP	2K	5%	1/10W
R3782	1-218-271-11	METAL CHIP	2K	5%	1/10W
R3783	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R3784	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R3785	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3786	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3787	1-216-821-11	METAL CHIP	1K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R3788	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3789	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3801	1-216-864-11	SHORT CHIP	0		
R3802	1-216-864-11	SHORT CHIP	0		
R3803	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3804	1-216-836-11	METAL CHIP	18K	5%	1/10W
R3805	1-216-821-11	METAL CHIP	1K	5%	1/10W
R4701	1-216-864-11	SHORT CHIP	0		
R4702	1-216-864-11	SHORT CHIP	0		
R4703	1-216-864-11	SHORT CHIP	0		
R4704	1-216-864-11	SHORT CHIP	0		
R4705	1-216-864-11	SHORT CHIP	0		
R4706	1-216-864-11	SHORT CHIP	0		
R5003	1-216-864-11	SHORT CHIP	0 (GNZ7D)		
R5004	1-216-864-11	SHORT CHIP	0 (GNZ8D/GNZ9D)		
R5011	1-216-864-11	SHORT CHIP	0		
R5014	1-216-864-11	SHORT CHIP	0 (E2,E51,MX)		
R5016	1-216-864-11	SHORT CHIP	0 (E3,E12,E13,E15,AUS,EA)		
R5017	1-216-864-11	SHORT CHIP	0 (PH,SP,TH)		
		< NETWORK RESISTOR >			
RB103	1-234-795-21	RES, NETWORK 0X4 (2010)			
RB104	1-234-795-21	RES, NETWORK 0X4 (2010)			
RB105	1-234-371-21	RES, NETWORK 47X4 (1005)			
RB106	1-234-371-21	RES, NETWORK 47X4 (1005)			
RB107	1-234-370-21	RES, NETWORK 22X4 (1005)			
RB108	1-234-370-21	RES, NETWORK 22X4 (1005)			
RB111	1-234-795-21	RES, NETWORK 0X4 (2010)			
RB112	1-234-370-21	RES, NETWORK 22X4 (1005)			
RB113	1-234-370-21	RES, NETWORK 22X4 (1005)			
		< VIBRATOR >			
X101	1-781-867-21	VIBRATOR, CRYSTAL (27MHz)			
**********					
	A-1103-756-A	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
C736	1-164-159-21	CERAMIC	0.1uF		50V
C737	1-164-159-21	CERAMIC	0.1uF		50V
C741	1-162-306-11	CERAMIC	0.01uF	20%	16V
C751	1-162-306-11	CERAMIC	0.01uF	20%	16V
C752	1-164-159-21	CERAMIC	0.1uF		50V
		< CONNECTOR >			
CN701	1-784-735-11	CONNECTOR, FFC 13P			
CN702	1-784-766-11	CONNECTOR, FFC 5P			
* CN703	1-564-720-11	PIN, CONNECTOR (SMALL TYPE) 4P			
CN704	1-785-328-11	PIN, CONNECTOR (LIGHT ANGLE) 2P			
		< DIODE >			
D701	8-719-921-42	DIODE MTZJ-5.1A			
D711	8-719-109-69	DIODE RD3.6ESB2			
		< IC >			
IC701	8-759-598-69	IC BA6956AN			

Ref. No.	Part No.	Description			Remark
IC712	8-759-598-69	IC BA6956AN			
		< TRANSISTOR >			
Q731	8-729-029-66	TRANSISTOR DTC114ESA			
		< RESISTOR >			
R701	1-249-413-11	CARBON	470	5%	1/4W
R702	1-247-807-31	CARBON	100	5%	1/4W
R711	1-249-417-11	CARBON	1K	5%	1/4W
R712	1-249-425-11	CARBON	4.7K	5%	1/4W
R713	1-249-433-11	CARBON	22K	5%	1/4W
R721	1-249-425-11	CARBON	4.7K	5%	1/4W
R722	1-249-425-11	CARBON	4.7K	5%	1/4W
R723	1-249-425-11	CARBON	4.7K	5%	1/4W
R731	1-247-807-31	CARBON	100	5%	1/4W
R732	1-249-429-11	CARBON	10K	5%	1/4W
R733	1-249-417-11	CARBON	1K	5%	1/4W
R734	1-249-430-11	CARBON	12K	5%	1/4W
R735	1-247-807-31	CARBON	100	5%	1/4W
R751	1-249-425-11	CARBON	4.7K	5%	1/4W
**********					
	A-1095-771-A	FRONT AMP BOARD, COMPLETE (GNZ9D:EXCEPT TH)			
	A-1095-772-A	FRONT AMP BOARD, COMPLETE (GNZ8D:EXCEPT TH)			
	A-1095-773-A	FRONT AMP BOARD, COMPLETE (GNZ7D:EXCEPT TH)			
	A-1111-483-A	FRONT AMP BOARD, COMPLETE (GNZ9D:TH)			
	A-1111-484-A	FRONT AMP BOARD, COMPLETE (GNZ8D:TH)			
	A-1111-485-A	FRONT AMP BOARD, COMPLETE (GNZ7D:TH)			
		**********			
	7-685-872-09	SCREW +BVTT 3X8 (S)			
		< CAPACITOR >			
C401	1-126-964-11	ELECT	10uF	20%	50V
C402	1-162-294-31	CERAMIC	0.001uF	10%	50V
C403	1-162-286-31	CERAMIC	220PF	10%	50V
C404	1-126-967-11	ELECT	47uF	20%	50V (GNZ8D/GNZ9D)
C404	1-126-968-11	ELECT	100uF	20%	50V (GNZ7D)
C406	1-136-495-11	FILM	0.068uF	5%	50V
C407	1-136-495-11	FILM	0.068uF	5%	50V
C408	1-128-576-11	ELECT	100uF	20%	63V
C410	1-126-926-11	ELECT	1000uF	20%	10V
C416	1-162-306-11	CERAMIC	0.01uF	20%	16V
C421	1-126-966-11	ELECT	33uF	20%	50V
C451	1-126-964-11	ELECT	10uF	20%	50V
C452	1-162-294-31	CERAMIC	0.001uF	10%	50V
C453	1-162-286-31	CERAMIC	220PF	10%	50V
C454	1-126-967-11	ELECT	47uF	20%	50V (GNZ8D/GNZ9D)
C454	1-126-968-11	ELECT	100uF	20%	50V (GNZ7D)
C456	1-136-495-11	FILM	0.068uF	5%	50V
C457	1-136-495-11	FILM	0.068uF	5%	50V
C458	1-128-576-11	ELECT	100uF	20%	63V
C471	1-135-928-21	ELECT	2200uF	20%	63V
C472	1-135-928-21	ELECT	2200uF	20%	63V

FRONT AMP

Ref. No.	Part No.	Description			Remark
C485	1-162-306-11	CERAMIC	0.01uF	20%	16V
C486	1-162-306-11	CERAMIC	0.01uF	20%	16V
C941	1-126-956-11	ELECT	0.1uF	20%	50V
C942	1-126-925-11	ELECT	470uF	20%	10V
C943	1-126-956-11	ELECT	0.1uF	20%	50V
C944	1-104-658-11	ELECT	100uF	20%	10V
C945	1-126-956-11	ELECT	0.1uF	20%	50V
C946	1-104-658-11	ELECT	100uF	20%	10V
C949	1-126-947-11	ELECT	47uF	20%	35V
C950	1-104-658-11	ELECT	100uF	20%	10V
		< CONNECTOR >			
CN401	1-573-829-11	CONNECTOR, BOARD TO BOARD 15P			
CN402	1-573-829-11	CONNECTOR, BOARD TO BOARD 15P			
CN403	1-564-506-11	PLUG, CONNECTOR 3P (GNZ9D)			
CN404	1-564-507-11	PLUG, CONNECTOR 4P (GNZ9D)			
		< DIODE >			
D401	8-719-991-33	DIODE 1SS133T-77			
D410	8-719-210-21	DIODE 11EQS04			
D451	8-719-991-33	DIODE 1SS133T-77			
D471	8-719-022-99	DIODE D6SB60L (GNZ9D)			
D471	8-719-510-68	DIODE D5SBA204101 (GNZ7D/GNZ8D)			
D481	8-719-991-33	DIODE 1SS133T-77			
D485	8-719-991-33	DIODE 1SS133T-77			
D486	8-719-991-33	DIODE 1SS133T-77			
D491	8-719-991-33	DIODE 1SS133T-77			
		< IC >			
IC401	6-600-221-01	IC STK403-130 (GNZ9D)			
IC401	6-705-853-01	IC STK403-120 (GNZ7D/GNZ8D)			
		< TRANSISTOR >			
Q401	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA			
Q402	8-729-140-82	TRANSISTOR 2SA988-PAFAEA			
Q403	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA			
Q416	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q417	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q451	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA			
Q481	8-729-140-82	TRANSISTOR 2SA988-PAFAEA			
Q482	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA			
		< RESISTOR >			
R401	1-247-831-11	CARBON	1K	5%	1/4W
R402	1-247-871-11	CARBON	47K	5%	1/4W
R403	1-247-807-31	CARBON	100	5%	1/4W (GNZ7D)
R403	1-249-407-11	CARBON	150	5%	1/4W (GNZ9D)
R403	1-249-408-11	CARBON	180	5%	1/4W (GNZ8D)
R404	1-247-871-11	CARBON	47K	5%	1/4W
⚠R406	1-208-602-11	METAL	0.22X2		2W F
R407	1-247-831-11	CARBON	1K	5%	1/4W
R408	1-249-431-11	CARBON	15K	5%	1/4W
R409	1-247-879-11	CARBON	100K	5%	1/4W
R410	1-260-076-11	CARBON	10	5%	1/2W F
⚠R411	1-212-881-11	FUSIBLE	100	5%	1/4W F

Ref. No.	Part No.	Description			Remark
R412	1-247-887-00	CARBON	220K	5%	1/4W
R413	1-249-421-11	CARBON	2.2K	5%	1/4W
R415	1-249-429-11	CARBON	10K	5%	1/4W
R416	1-249-429-11	CARBON	10K	5%	1/4W
R417	1-249-429-11	CARBON	10K	5%	1/4W
R418	1-247-871-11	CARBON	47K	5%	1/4W
⚠R419	1-202-972-61	FUSIBLE	1	5%	1/4W F
⚠R420	1-202-972-61	FUSIBLE	1	5%	1/4W F
R421	1-249-429-11	CARBON	10K	5%	1/4W
R425	1-249-439-11	CARBON	68K	5%	1/4W
R426	1-249-426-11	CARBON	5.6K	5%	1/4W
R427	1-249-421-11	CARBON	2.2K	5%	1/4W
R428	1-247-863-11	CARBON	22K	5%	1/4W
R429	1-249-429-11	CARBON	10K	5%	1/4W
R430	1-249-429-11	CARBON	10K	5%	1/4W
R439	1-247-871-11	CARBON	47K	5%	1/4W
R440	1-247-873-11	CARBON	56K	5%	1/4W
R451	1-247-831-11	CARBON	1K	5%	1/4W
R452	1-247-871-11	CARBON	47K	5%	1/4W
R453	1-247-807-31	CARBON	100	5%	1/4W (GNZ7D)
R453	1-249-407-11	CARBON	150	5%	1/4W (GNZ9D)
R453	1-249-408-11	CARBON	180	5%	1/4W (GNZ8D)
R454	1-247-871-11	CARBON	47K	5%	1/4W
⚠R456	1-208-602-11	METAL	0.22X2		2W F
R457	1-247-831-11	CARBON	1K	5%	1/4W
R458	1-249-431-11	CARBON	15K	5%	1/4W
R459	1-247-879-11	CARBON	100K	5%	1/4W
R460	1-260-076-11	CARBON	10	5%	1/2W F
⚠R461	1-212-881-11	FUSIBLE	100	5%	1/4W F
R471	1-247-879-11	CARBON	100K	5%	1/4W
R472	1-247-879-11	CARBON	100K	5%	1/4W
⚠R480	1-215-892-11	METAL OXIDE	1K	5%	2W F (GNZ8D)
⚠R480	1-216-457-00	METAL OXIDE	1.2K	5%	2W F (GNZ7D/GNZ9D)
R485	1-247-871-11	CARBON	47K	5%	1/4W
R486	1-247-871-11	CARBON	47K	5%	1/4W
R487	1-249-429-11	CARBON	10K	5%	1/4W
R488	1-247-871-11	CARBON	47K	5%	1/4W
R489	1-249-429-11	CARBON	10K	5%	1/4W
R490	1-249-429-11	CARBON	10K	5%	1/4W
R941	1-247-831-11	CARBON	1K	5%	1/4W
		< RELAY >			
RY481	1-515-920-11	RELAY (24V)			
		< THERMISTOR >			
TH401	1-807-796-11	THERMISTOR 10K			
		< TERMINAL BOARD >			
TM401	1-694-677-12	TERMINAL BOARD (4P) (FRONT SPEAKER)			

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JACK **MOTOR (LD)**

Ref. No.	Part No.	Description			Remark
	A-1095-805-A	JACK BOARD, COMPLETE (EXCEPT TH)			
	A-1111-503-A	JACK BOARD, COMPLETE (TH)			
		**********			
		< CAPACITOR >			
C1001	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1002	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1003	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C1004	1-126-791-11	ELECT	10uF	20%	35V
C1005	1-115-872-11	ELECT	2.2uF	20%	50V
C1006	1-162-955-11	CERAMIC CHIP	150PF	5%	50V
C1007	1-126-786-11	ELECT	47uF	20%	16V
C1008	1-162-949-11	CERAMIC CHIP	47PF	5%	50V
C1009	1-115-872-11	ELECT	2.2uF	20%	50V
C1010	1-115-867-11	ELECT	0.1uF	20%	50V
C1011	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C1012	1-126-786-11	ELECT	47uF	20%	16V
C1013	1-162-949-11	CERAMIC CHIP	47PF	5%	50V
C1014	1-115-868-11	ELECT	0.22uF	20%	50V
C1015	1-115-868-11	ELECT	0.22uF	20%	50V
C1016	1-107-726-11	CERAMIC CHIP	0.01uF	10%	16V
C1017	1-107-726-11	CERAMIC CHIP	0.01uF	10%	16V
C1018	1-131-664-11	CERAMIC CHIP	0.15uF	10%	10V
C1019	1-115-871-11	ELECT	1uF	20%	50V
C1020	1-115-871-11	ELECT	1uF	20%	50V
C1021	1-115-870-11	ELECT	0.47uF	20%	50V
C1022	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1023	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C1024	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C1025	1-115-870-11	ELECT	0.47uF	20%	50V
C1026	1-110-563-11	CERAMIC CHIP	0.068uF	10%	16V
C1027	1-110-563-11	CERAMIC CHIP	0.068uF	10%	16V
C1028	1-126-785-11	ELECT	47uF	20%	10V
C1029	1-115-872-11	ELECT	2.2uF	20%	50V
C1030	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C1031	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1034	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C1035	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C1036	1-164-360-11	CERAMIC CHIP	0.1uF		16V
		< DIODE >			
D1001	8-719-988-61	DIODE 1SS355TE-17			
D1002	8-719-988-61	DIODE 1SS355TE-17			
D1003	8-719-988-61	DIODE 1SS355TE-17			
D1004	8-719-988-61	DIODE 1SS355TE-17			
D1005	8-719-988-61	DIODE 1SS355TE-17			
D1006	8-719-988-61	DIODE 1SS355TE-17			
D1007	8-719-083-58	DIODE UDZSTE-173.9B			
		< GROUND TERMINAL >			
EPT1001	1-537-771-21	TERMINAL BOARD, GROUND			
EPT1002	1-537-771-21	TERMINAL BOARD, GROUND			
		< FERRITE BEAD >			
FB1001	1-469-869-21	INDUCTOR (EMI FERRITE) (2012)			
FB1002	1-216-295-11	SHORT CHIP	0		
FB1003	1-216-295-11	SHORT CHIP	0		
FB1004	1-216-295-11	SHORT CHIP	0		

Ref. No.	Part No.	Description			Remark
		< IC >			
IC1001	8-759-710-97	IC NJM4565M-D			
IC1002	8-759-496-41	IC M65850FP-E1			
		< JACK >			
J1001	1-764-592-11	JACK, PIN 3P (VIDEO INPUT)			
J1002	1-770-226-11	JACK (LARGE TYPE) (MIC 2)			
J1003	1-770-226-11	JACK (LARGE TYPE) (MIC 1)			
J1004	1-794-702-11	JACK, HEADPHONE (PHONES)			
		< JUMPER RESISTOR >			
JR1000	1-216-295-11	SHORT CHIP	0		
JW1001	1-216-295-11	SHORT CHIP	0		
		< RESISTOR >			
R1000	1-218-285-11	METAL CHIP	75	5%	1/10W
R1001	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1002	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1003	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1004	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1005	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1006	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1007	1-216-813-11	METAL CHIP	220	5%	1/10W
R1008	1-216-809-11	METAL CHIP	100	5%	1/10W
R1009	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1010	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1011	1-216-847-11	METAL CHIP	150K	5%	1/10W
R1012	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1013	1-216-809-11	METAL CHIP	100	5%	1/10W
R1014	1-216-851-11	METAL CHIP	330K	5%	1/10W
R1015	1-216-835-11	METAL CHIP	15K	5%	1/10W
R1016	1-216-835-11	METAL CHIP	15K	5%	1/10W
R1017	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1018	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1021	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1022	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1023	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1024	1-216-835-11	METAL CHIP	15K	5%	1/10W
R1025	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1026	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1027	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1028	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1029	1-216-846-11	METAL CHIP	120K	5%	1/10W
R1030	1-216-835-11	METAL CHIP	15K	5%	1/10W
R1031	1-260-083-11	CARBON	47	5%	1/2W F
R1032	1-260-083-11	CARBON	47	5%	1/2W F
		< VARIABLE RESISTOR >			
RV1001	1-223-983-11	RES, VAR, CARBON 50K (MIC LEVEL)			
RV1002	1-223-983-11	RES, VAR, CARBON 50K (ECHO LEVEL)			
**********					
	1-687-133-12	MOTOR (LD) BOARD			
		**********			
**********					

Ref. No.	Part No.	Description			Remark
	1-687-134-12	MOTOR (TB) BOARD			
		**********			
		< CONNECTOR >			
CN742	1-784-727-11	CONNECTOR, FFC 5P			
**********					
	A-1095-804-A	PANEL BOARD, COMPLETE (EXCEPT TH)			
	A-1111-502-A	PANEL BOARD, COMPLETE (TH)			
		**********			
		< CAPACITOR >			
C101	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C102	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C103	1-126-916-11	ELECT	1000uF	20%	6.3V
C104	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C105	1-119-941-11	ELECT	470uF	20%	6.3V
C106	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C110	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C111	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C112	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C113	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C114	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C115	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C116	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C117	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C118	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C119	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C120	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C121	1-119-941-11	ELECT	470uF	20%	6.3V
C122	1-119-941-11	ELECT	470uF	20%	6.3V
C125	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C126	1-119-943-11	ELECT	47uF	20%	50V
C127	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C128	1-126-382-11	ELECT	100uF	20%	16V
C129	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C130	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C144	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C145	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C146	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C147	1-126-382-11	ELECT	100uF	20%	16V
C152	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C153	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C154	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
		< CONNECTOR >			
* CN001	1-568-450-11	HOUSING, CONNECTOR (PC BOARD) 4P			
* CN002	1-568-451-11	HOUSING, CONNECTOR (PC BOARD) 10P			
CN003	1-784-749-11	CONNECTOR, FFC 27P			
CN004	1-784-735-11	CONNECTOR, FFC 13P			
CN005	1-779-550-21	CONNECTOR, FFC (LIF(NON-ZIF)) 13P			
CN102	1-784-735-11	CONNECTOR, FFC 13P			
CN151	1-785-334-11	PIN, CONNECTOR (LIGHT ANGLE) 8P			
CN152	1-785-330-11	PIN, CONNECTOR (LIGHT ANGLE) 4P			
CN153	1-818-282-11	PIN, CONNECTOR (FOR PWB) 3P			
		< DIODE >			
D101	6-500-335-01	DIODE MC2838-T112-1			

Ref. No.	Part No.	Description	Remark
D102	6-500-335-01	DIODE MC2838-T112-1	
D105	8-719-988-61	DIODE 1SS355TE-17	
D106	8-719-988-61	DIODE 1SS355TE-17	
D107	8-719-988-61	DIODE 1SS355TE-17	
D108	1-216-295-11	SHORT CHIP 0	
D109	8-719-988-61	DIODE 1SS355TE-17	
D110	8-719-053-43	LED SLR-325VCT31 (I/⏻)	
D111	8-719-988-61	DIODE 1SS355TE-17	
D112	8-719-988-61	DIODE 1SS355TE-17	
D113	8-719-988-61	DIODE 1SS355TE-17	
D114	8-719-988-61	DIODE 1SS355TE-17	
D121	8-719-988-61	DIODE 1SS355TE-17	
		< JUMPER RESISTOR >	
FB101	1-216-295-11	SHORT CHIP 0	
FB102	1-216-295-11	SHORT CHIP 0	
FB103	1-216-295-11	SHORT CHIP 0	
FB104	1-216-295-11	SHORT CHIP 0	
FB105	1-216-295-11	SHORT CHIP 0	
		< FLUORESCENT INDICATOR >	
FL101	1-519-811-11	INDICATOR TUBE, FLUORESCENT	
		< IC >	
IC101	6-805-164-01	IC M30392MEP-A00FPU5	
IC102	6-707-095-01	IC BH2210FV-E2	
IC103	6-707-920-01	IC BD4828G-TR	
		< JUMPER RESISTOR >	
JR101	1-216-864-11	SHORT CHIP 0	
JR103	1-216-864-11	SHORT CHIP 0	
JR104	1-216-864-11	SHORT CHIP 0	
JR105	1-216-864-11	SHORT CHIP 0	
JR106	1-216-864-11	SHORT CHIP 0	
JR107	1-216-864-11	SHORT CHIP 0	
JR108	1-216-864-11	SHORT CHIP 0	
JR109	1-216-864-11	SHORT CHIP 0	
JR110	1-216-864-11	SHORT CHIP 0	
JR111	1-216-864-11	SHORT CHIP 0	
JR112	1-216-864-11	SHORT CHIP 0	
JR119	1-216-864-11	SHORT CHIP 0	
JR120	1-216-864-11	SHORT CHIP 0	
JR121	1-216-864-11	SHORT CHIP 0	
JR123	1-216-864-11	SHORT CHIP 0	
		< TRANSISTOR >	
Q101	8-729-039-14	TRANSISTOR BCR133W-GEG-E6327	
Q102	6-550-044-01	TRANSISTOR 2SB1689-T106	
Q103	8-729-039-14	TRANSISTOR BCR133W-GEG-E6327	
Q104	6-550-044-01	TRANSISTOR 2SB1689-T106	
Q105	8-729-039-14	TRANSISTOR BCR133W-GEG-E6327	
Q106	6-550-044-01	TRANSISTOR 2SB1689-T106	
Q107	8-729-905-35	TRANSISTOR 2SC4081-R	
Q108	8-729-039-14	TRANSISTOR BCR133W-GEG-E6327	
Q109	8-729-026-53	TRANSISTOR 2SA1576A-T106-QR	
Q111	8-729-039-14	TRANSISTOR BCR133W-GEG-E6327	
Q112	8-729-039-14	TRANSISTOR BCR133W-GEG-E6327	
Q113	8-729-039-14	TRANSISTOR BCR133W-GEG-E6327	

PANEL

Ref. No.	Part No.	Description			Remark
Q114	8-729-039-14	TRANSISTOR	BCR133W-GEG-E6327		
Q115	8-729-039-14	TRANSISTOR	BCR133W-GEG-E6327		
Q116	8-729-106-60	TRANSISTOR	2SB1115A-YQ		
Q117	8-729-106-60	TRANSISTOR	2SB1115A-YQ		
		< RESISTOR >			
R001	1-216-837-11	METAL CHIP	22K	5%	1/10W
R002	1-216-809-11	METAL CHIP	100	5%	1/10W
R003	1-216-809-11	METAL CHIP	100	5%	1/10W
R004	1-216-809-11	METAL CHIP	100	5%	1/10W
R005	1-216-809-11	METAL CHIP	100	5%	1/10W
R006	1-216-809-11	METAL CHIP	100	5%	1/10W
R007	1-216-809-11	METAL CHIP	100	5%	1/10W
R008	1-216-809-11	METAL CHIP	100	5%	1/10W
R009	1-216-809-11	METAL CHIP	100	5%	1/10W
R010	1-216-809-11	METAL CHIP	100	5%	1/10W
R011	1-216-809-11	METAL CHIP	100	5%	1/10W
R012	1-216-809-11	METAL CHIP	100	5%	1/10W
R013	1-216-833-11	METAL CHIP	10K	5%	1/10W
R014	1-216-837-11	METAL CHIP	22K	5%	1/10W
R015	1-216-841-11	METAL CHIP	47K	5%	1/10W
R016	1-216-833-11	METAL CHIP	10K	5%	1/10W
R017	1-216-809-11	METAL CHIP	100	5%	1/10W
R018	1-216-809-11	METAL CHIP	100	5%	1/10W
R019	1-216-809-11	METAL CHIP	100	5%	1/10W
R020	1-216-809-11	METAL CHIP	100	5%	1/10W
R021	1-216-809-11	METAL CHIP	100	5%	1/10W
R022	1-216-809-11	METAL CHIP	100	5%	1/10W
R023	1-216-809-11	METAL CHIP	100	5%	1/10W
R024	1-216-809-11	METAL CHIP	100	5%	1/10W
R025	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R026	1-216-809-11	METAL CHIP	100	5%	1/10W
R027	1-216-837-11	METAL CHIP	22K	5%	1/10W
R028	1-216-841-11	METAL CHIP	47K	5%	1/10W
R029	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R030	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R031	1-216-833-11	METAL CHIP	10K	5%	1/10W
R032	1-216-837-11	METAL CHIP	22K	5%	1/10W
R033	1-216-841-11	METAL CHIP	47K	5%	1/10W
R034	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R035	1-216-841-11	METAL CHIP	47K	5%	1/10W
R036	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R037	1-216-833-11	METAL CHIP	10K	5%	1/10W
R038	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R039	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R040	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R041	1-216-813-11	METAL CHIP	220	5%	1/10W
R042	1-216-815-11	METAL CHIP	330	5%	1/10W
R043	1-216-817-11	METAL CHIP	470	5%	1/10W
R044	1-216-819-11	METAL CHIP	680	5%	1/10W
R045	1-216-821-11	METAL CHIP	1K	5%	1/10W
R046	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R047	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R048	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R049	1-216-833-11	METAL CHIP	10K	5%	1/10W
R050	1-216-839-11	METAL CHIP	33K	5%	1/10W
R051	1-216-819-11	METAL CHIP	680	5%	1/10W

Ref. No.	Part No.	Description			Remark
R052	1-216-821-11	METAL CHIP	1K	5%	1/10W
R053	1-216-819-11	METAL CHIP	680	5%	1/10W
R054	1-216-821-11	METAL CHIP	1K	5%	1/10W
R055	1-216-819-11	METAL CHIP	680	5%	1/10W
R056	1-216-821-11	METAL CHIP	1K	5%	1/10W
R057	1-216-833-11	METAL CHIP	10K	5%	1/10W
R058	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R059	1-216-833-11	METAL CHIP	10K	5%	1/10W
R060	1-216-833-11	METAL CHIP	10K	5%	1/10W
R061	1-216-813-11	METAL CHIP	220	5%	1/10W
R062	1-216-815-11	METAL CHIP	330	5%	1/10W
R063	1-216-817-11	METAL CHIP	470	5%	1/10W
R064	1-216-819-11	METAL CHIP	680	5%	1/10W
R065	1-216-821-11	METAL CHIP	1K	5%	1/10W
R066	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R067	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R068	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R070	1-216-864-11	SHORT CHIP	0		
R071	1-216-864-11	SHORT CHIP	0		
R072	1-216-817-11	METAL CHIP	470	5%	1/10W
R073	1-216-833-11	METAL CHIP	10K	5%	1/10W
R074	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R075	1-216-837-11	METAL CHIP	22K	5%	1/10W
R076	1-216-837-11	METAL CHIP	22K	5%	1/10W
R077	1-216-841-11	METAL CHIP	47K	5%	1/10W
R078	1-216-837-11	METAL CHIP	22K	5%	1/10W
R079	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R080	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R081	1-216-813-11	METAL CHIP	220	5%	1/10W
R082	1-216-815-11	METAL CHIP	330	5%	1/10W
R083	1-216-817-11	METAL CHIP	470	5%	1/10W
R084	1-216-819-11	METAL CHIP	680	5%	1/10W
R085	1-216-821-11	METAL CHIP	1K	5%	1/10W
R086	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R087	1-216-837-11	METAL CHIP	22K	5%	1/10W
R088	1-216-841-11	METAL CHIP	47K	5%	1/10W
R089	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R090	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R091	1-216-821-11	METAL CHIP	1K	5%	1/10W
R092	1-216-817-11	METAL CHIP	470	5%	1/10W
R093	1-216-821-11	METAL CHIP	1K	5%	1/10W
R094	1-216-809-11	METAL CHIP	100	5%	1/10W
R095	1-216-813-11	METAL CHIP	220	5%	1/10W
R096	1-216-813-11	METAL CHIP	220	5%	1/10W
R097	1-216-813-11	METAL CHIP	220	5%	1/10W
R098	1-216-813-11	METAL CHIP	220	5%	1/10W
R099	1-216-813-11	METAL CHIP	220	5%	1/10W
R100	1-216-813-11	METAL CHIP	220	5%	1/10W
R101	1-216-809-11	METAL CHIP	100	5%	1/10W
R102	1-216-809-11	METAL CHIP	100	5%	1/10W
R103	1-216-809-11	METAL CHIP	100	5%	1/10W
R104	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R105	1-216-809-11	METAL CHIP	100	5%	1/10W
R106	1-216-809-11	METAL CHIP	100	5%	1/10W
R107	1-216-809-11	METAL CHIP	100	5%	1/10W
R108	1-216-809-11	METAL CHIP	100	5%	1/10W
R109	1-216-833-11	METAL CHIP	10K	5%	1/10W
R110	1-216-841-11	METAL CHIP	47K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R111	1-216-851-11	METAL CHIP	330K	5%	1/10W
R112	1-216-833-11	METAL CHIP	10K	5%	1/10W
R113	1-216-811-11	METAL CHIP	150	5%	1/10W (E13)
R113	1-216-821-11	METAL CHIP	1K	5%	1/10W (E2,E51,MX)
R113	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (E3,E12,E15,AUS,EA)
R114	1-216-815-11	METAL CHIP	330	5%	1/10W (E3,E15)
R114	1-216-819-11	METAL CHIP	680	5%	1/10W (E12)
R114	1-216-821-11	METAL CHIP	1K	5%	1/10W (EA)
R114	1-216-823-11	METAL CHIP	1.5K	5%	1/10W (AUS)
R114	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (E2,E13,E51,MX)
R114	1-216-864-11	SHORT CHIP	0 (SP,MY,PH,TH)		
R115	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (EXCEPT GNZ8D:E15)
R115	1-216-864-11	SHORT CHIP	0 (GNZ8D:E15)		
R116	1-216-811-11	METAL CHIP	150	5%	1/10W (GNZ7D)
R116	1-216-815-11	METAL CHIP	330	5%	1/10W (GNZ8D:EXCEPT E15)
R116	1-216-819-11	METAL CHIP	680	5%	1/10W (GNZ9D)
R117	1-216-833-11	METAL CHIP	10K	5%	1/10W
R118	1-216-809-11	METAL CHIP	100	5%	1/10W
R119	1-216-809-11	METAL CHIP	100	5%	1/10W
R120	1-216-841-11	METAL CHIP	47K	5%	1/10W
R121	1-216-809-11	METAL CHIP	100	5%	1/10W
R122	1-216-809-11	METAL CHIP	100	5%	1/10W
R123	1-216-809-11	METAL CHIP	100	5%	1/10W
R124	1-216-809-11	METAL CHIP	100	5%	1/10W
R125	1-216-809-11	METAL CHIP	100	5%	1/10W
R126	1-216-809-11	METAL CHIP	100	5%	1/10W
R127	1-216-809-11	METAL CHIP	100	5%	1/10W
R128	1-216-809-11	METAL CHIP	100	5%	1/10W
R129	1-216-809-11	METAL CHIP	100	5%	1/10W
R130	1-216-809-11	METAL CHIP	100	5%	1/10W
R131	1-216-841-11	METAL CHIP	47K	5%	1/10W
R132	1-216-841-11	METAL CHIP	47K	5%	1/10W
R133	1-216-841-11	METAL CHIP	47K	5%	1/10W
R134	1-216-841-11	METAL CHIP	47K	5%	1/10W
R135	1-216-841-11	METAL CHIP	47K	5%	1/10W
R136	1-216-841-11	METAL CHIP	47K	5%	1/10W
R137	1-216-841-11	METAL CHIP	47K	5%	1/10W
R138	1-216-841-11	METAL CHIP	47K	5%	1/10W
R139	1-216-841-11	METAL CHIP	47K	5%	1/10W
R140	1-216-841-11	METAL CHIP	47K	5%	1/10W
R141	1-216-841-11	METAL CHIP	47K	5%	1/10W
R142	1-216-841-11	METAL CHIP	47K	5%	1/10W
R143	1-216-841-11	METAL CHIP	47K	5%	1/10W
R144	1-216-841-11	METAL CHIP	47K	5%	1/10W
R145	1-216-841-11	METAL CHIP	47K	5%	1/10W
R146	1-216-841-11	METAL CHIP	47K	5%	1/10W
R147	1-216-841-11	METAL CHIP	47K	5%	1/10W
R148	1-216-841-11	METAL CHIP	47K	5%	1/10W
R149	1-216-841-11	METAL CHIP	47K	5%	1/10W
R150	1-216-841-11	METAL CHIP	47K	5%	1/10W
R151	1-216-841-11	METAL CHIP	47K	5%	1/10W
R152	1-216-864-11	SHORT CHIP	0		
R153	1-216-841-11	METAL CHIP	47K	5%	1/10W
R154	1-216-841-11	METAL CHIP	47K	5%	1/10W
R155	1-216-841-11	METAL CHIP	47K	5%	1/10W
R156	1-216-841-11	METAL CHIP	47K	5%	1/10W
R157	1-216-841-11	METAL CHIP	47K	5%	1/10W
R158	1-216-841-11	METAL CHIP	47K	5%	1/10W
R159	1-216-841-11	METAL CHIP	47K	5%	1/10W
R160	1-216-841-11	METAL CHIP	47K	5%	1/10W
R161	1-216-841-11	METAL CHIP	47K	5%	1/10W
R162	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R163	1-216-841-11	METAL CHIP	47K	5%	1/10W
R164	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R165	1-216-841-11	METAL CHIP	47K	5%	1/10W
R166	1-216-841-11	METAL CHIP	47K	5%	1/10W
R167	1-216-841-11	METAL CHIP	47K	5%	1/10W
R168	1-216-809-11	METAL CHIP	100	5%	1/10W
R169	1-216-809-11	METAL CHIP	100	5%	1/10W
R170	1-216-809-11	METAL CHIP	100	5%	1/10W
R171	1-216-809-11	METAL CHIP	100	5%	1/10W
R172	1-216-833-11	METAL CHIP	10K	5%	1/10W
R173	1-216-833-11	METAL CHIP	10K	5%	1/10W
R174	1-216-857-11	METAL CHIP	1M	5%	1/10W
R177	1-216-853-11	METAL CHIP	470K	5%	1/10W
R178	1-216-809-11	METAL CHIP	100	5%	1/10W
R179	1-216-809-11	METAL CHIP	100	5%	1/10W
R180	1-216-809-11	METAL CHIP	100	5%	1/10W
R181	1-216-809-11	METAL CHIP	100	5%	1/10W
R182	1-216-809-11	METAL CHIP	100	5%	1/10W
R183	1-216-809-11	METAL CHIP	100	5%	1/10W
R184	1-216-809-11	METAL CHIP	100	5%	1/10W
R185	1-216-809-11	METAL CHIP	100	5%	1/10W
R186	1-216-809-11	METAL CHIP	100	5%	1/10W
R187	1-216-809-11	METAL CHIP	100	5%	1/10W
R188	1-216-809-11	METAL CHIP	100	5%	1/10W
R189	1-216-809-11	METAL CHIP	100	5%	1/10W
R192	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R193	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R194	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R195	1-216-809-11	METAL CHIP	100	5%	1/10W
R197	1-216-809-11	METAL CHIP	100	5%	1/10W
R198	1-216-864-11	SHORT CHIP	0		
R199	1-216-821-11	METAL CHIP	1K	5%	1/10W
R200	1-216-809-11	METAL CHIP	100	5%	1/10W

< SWITCH >

S11	1-762-875-21	SWITCH, KEYBOARD (**I**/⏻)
S12	1-762-875-21	SWITCH, KEYBOARD (EQ BAND/MEMORY)
S13	1-762-875-21	SWITCH, KEYBOARD (ILLUMINATION)
S14	1-762-875-21	SWITCH, KEYBOARD (PRESET EQ)
S15	1-762-875-21	SWITCH, KEYBOARD (DIRECTION)
S16	1-762-875-21	SWITCH, KEYBOARD (DISC 3)
S17	1-762-875-21	SWITCH, KEYBOARD (DISC 2)
S18	1-762-875-21	SWITCH, KEYBOARD (DISC 1)

PANEL **SENSOR** **SIRCS** **STREAM** **SUBWOOFER**

Ref. No.	Part No.	Description	Remark
S19	1-762-875-21	SWITCH, KEYBOARD (DISC SKIP/EX-CHANGE)	
S20	1-762-875-21	SWITCH, KEYBOARD (⏏ OPEN/CLOSE)	
S31	1-762-875-21	SWITCH, KEYBOARD (DISPLAY)	
S32	1-762-875-21	SWITCH, KEYBOARD (TUNER/BAND)	
S33	1-762-875-21	SWITCH, KEYBOARD (TAPE A/B)	
S34	1-762-875-21	SWITCH, KEYBOARD (TV/SAT)	
S35	1-762-875-21	SWITCH, KEYBOARD (VIDEO)	
S36	1-762-875-21	SWITCH, KEYBOARD (CD SYNC)	
S37	1-762-875-21	SWITCH, KEYBOARD (REC PAUSE/START)	
S38	1-762-875-21	SWITCH, KEYBOARD (◀◀◀◀ TUNING –)	
S51	1-762-875-21	SWITCH, KEYBOARD (◀▶)	
S52	1-762-875-21	SWITCH, KEYBOARD (SOUND FIELD)	
S53	1-762-875-21	SWITCH, KEYBOARD (❚❚)	
S54	1-762-875-21	SWITCH, KEYBOARD (■)	
S55	1-762-875-21	SWITCH, KEYBOARD (▶▶▶▶ TUNING +)	
S56	1-762-875-21	SWITCH, KEYBOARD (GROOVE)	
S57	1-762-875-21	SWITCH, KEYBOARD (DVD)	
		< VIBRATOR >	
X101	1-795-482-11	VIBRATOR, CERAMIC (16MHz)	
X102	1-760-252-12	VIBRATOR, CRYSTAL (32.768kHz)	
**********			
	1-687-132-12	SENSOR BOARD	
		**********	
		< CONNECTOR >	
CN731	1-785-329-21	PIN, CONNECTOR (LIGHT ANGLE) 3P	
		< IC >	
IC731	6-600-022-01	IC RPI-576	
**********			
		SIRCS BOARD	
		**********	
		< CAPACITOR >	
C148	1-162-974-11	CERAMIC CHIP 0.01uF	50V
		< CONNECTOR >	
CN143	1-816-423-11	SOCKET, CONNECTOR 3P	
		< IC >	
IC104	6-600-309-01	IC RPM7240-H9 (IR)	
		< JUMPER RESISTOR >	
JR102	1-216-864-11	SHORT CHIP 0	
**********			
		STREAM BOARD	
		**********	
		< DIODE >	
D115	6-500-665-01	LED SELU6614C-STP5 (RING ILLUMINATION)	
D116	6-500-665-01	LED SELU6614C-STP5 (RING ILLUMINATION)	
D117	6-500-665-01	LED SELU6614C-STP5 (RING ILLUMINATION)	
D118	6-500-665-01	LED SELU6614C-STP5 (RING ILLUMINATION)	
D119	6-500-665-01	LED SELU6614C-STP5 (RING ILLUMINATION)	

Ref. No.	Part No.	Description			Remark
D120	6-500-665-01	LED SELU6614C-STP5 (RING ILLUMINATION)			
		< RESISTOR >			
R069	1-216-833-11	METAL CHIP	10K	5%	1/10W
		< SWITCH >			
S101	1-786-289-11	SWITCH, DETECTION (⏮ – EQ + ⏭)			
S102	1-418-725-41	ENCODER, ROTARY (12 TYPE)			(MASTER VOLUME)
**********					
	A-1095-778-A	SUBWOOFER BOARD, COMPLETE			(GNZ9D:EXCEPT TH)
	A-1111-488-A	SUBWOOFER BOARD, COMPLETE (GNZ9D:TH)			
		**********			
		< CAPACITOR >			
C671	1-126-964-11	ELECT	10uF	20%	50V (GNZ9D)
C672	1-162-294-31	CERAMIC	0.001uF	10%	50V (GNZ9D)
C673	1-162-286-31	CERAMIC	220PF	10%	50V (GNZ9D)
C674	1-126-968-11	ELECT	100uF	20%	50V (GNZ9D)
C676	1-136-497-81	FILM	0.1uF	5%	50V (GNZ9D)
C677	1-136-497-81	FILM	0.1uF	5%	50V (GNZ9D)
C678	1-128-576-11	ELECT	100uF	20%	63V (GNZ9D)
C679	1-128-582-11	ELECT	10uF	20%	100V (GNZ9D)
C680	1-162-199-31	CERAMIC	10PF	5%	50V (GNZ9D)
C681	1-128-552-51	ELECT	47uF	20%	63V (GNZ9D)
C682	1-126-968-11	ELECT	100uF	20%	50V (GNZ9D)
C683	1-128-582-11	ELECT	10uF	20%	100V (GNZ9D)
C685	1-126-968-11	ELECT	100uF	20%	50V (GNZ9D)
C691	1-128-576-11	ELECT	100uF	20%	63V (GNZ9D)
C692	1-128-576-11	ELECT	100uF	20%	63V (GNZ9D)
		< CONNECTOR >			
CN603	1-564-505-11	PLUG, CONNECTOR 2P (GNZ9D)			
		< DIODE >			
D671	8-719-991-33	DIODE 1SS133T-77 (GNZ9D)			
D672	8-719-991-33	DIODE 1SS133T-77 (GNZ9D)			
D681	8-719-110-36	DIODE RD13ESB2 (GNZ9D)			
D751	8-719-991-33	DIODE 1SS133T-77 (GNZ9D)			
		< IC >			
IC601	6-600-182-01	IC STK404-140S (GNZ9D)			

Ref. No.	Part No.	Description			Remark
		< TRANSISTOR >			
Q671	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA (GNZ9D)			
Q672	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA (GNZ9D)			
Q673	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA (GNZ9D)			
Q682	8-729-029-66	TRANSISTOR DTC114ESA (GNZ9D)			
Q683	8-729-119-78	TRANSISTOR 2SC2785-HFE (GNZ9D)			
		< RESISTOR >			
R671	1-247-831-11	CARBON	1K	5%	1/4W (GNZ9D)
R672	1-247-871-11	CARBON	47K	5%	1/4W (GNZ9D)
R673	1-249-411-11	CARBON	330	5%	1/4W (GNZ9D)
R674	1-247-871-11	CARBON	47K	5%	1/4W (GNZ9D)
⚠R675	1-208-602-11	METAL	0.22X2		2W F (GNZ9D)
⚠R676	1-208-602-11	METAL	0.22X2		2W F (GNZ9D)
R677	1-247-831-11	CARBON	1K	5%	1/4W (GNZ9D)
R678	1-249-431-11	CARBON	15K	5%	1/4W (GNZ9D)
R679	1-247-879-11	CARBON	100K	5%	1/4W (GNZ9D)
R680	1-260-076-11	CARBON	10	5%	1/2W F (GNZ9D)
⚠R681	1-212-881-11	FUSIBLE	100	5%	1/4W F (GNZ9D)
R682	1-249-428-11	CARBON	8.2K	5%	1/4W (GNZ9D)
R683	1-249-428-11	CARBON	8.2K	5%	1/4W (GNZ9D)
⚠R684	1-202-972-61	FUSIBLE	1	5%	1/4W F (GNZ9D)
R685	1-249-439-11	CARBON	68K	5%	1/4W (GNZ9D)
⚠R686	1-216-457-00	METAL OXIDE	1.2K	5%	2W F (GNZ9D)
R687	1-249-429-11	CARBON	10K	5%	1/4W (GNZ9D)
R688	1-247-871-11	CARBON	47K	5%	1/4W (GNZ9D)
R689	1-249-429-11	CARBON	10K	5%	1/4W (GNZ9D)
R690	1-249-429-11	CARBON	10K	5%	1/4W (GNZ9D)
R693	1-249-435-11	CARBON	33K	5%	1/4W (GNZ9D)
		< RELAY >			
RY601	1-515-920-11	RELAY (24V) (GNZ9D)			

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Ref. No.	Part No.	Description			Remark
		SUB TRANS BOARD			
		**********			
	1-533-217-41	HOLDER, FUSE (EXCEPT E12,E13,AUS,TH)			
		< CAPACITOR >			
C902	1-164-159-11	CERAMIC	0.1uF		50V
C903	1-164-159-11	CERAMIC	0.1uF		50V
C905	1-162-306-11	CERAMIC	0.01uF	20%	16V
		< CONNECTOR >			
CN901	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P			
CN902	1-785-314-11	PIN, CONNECTOR (STRAIGHT) 2P			
		< DIODE >			
D901	8-719-991-33	DIODE 1SS133T-77			
		< COIL >			
L901	1-414-189-31	INDUCTOR	100uH		
		< TRANSISTOR >			
Q901	8-729-119-78	TRANSISTOR 2SC2785-HFE			
		< RESISTOR >			
R901	1-249-429-11	CARBON	10K	5%	1/4W
R904	1-249-393-11	CARBON	10	5%	1/4W
		< RELAY >			
⚠RY901	1-755-324-11	RELAY			
		< SWITCH >			
⚠S901	1-786-055-21	SELECTOR, VOLTAGE (VOLTAGE SELECTOR) (GNZ7D:EXCEPT TH/GNZ8D:EXCEPT E12,E13,TH/ GNZ9D:EXCEPT E12,E13,AUS,MX,TH)			

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	A-1095-774-A	SURROUND AMP BOARD, COMPLETE			(GNZ9D:EXCEPT TH)
	A-1095-775-A	SURROUND AMP BOARD, COMPLETE			(GNZ8D:EXCEPT TH)
	A-1111-486-A	SURROUND AMP BOARD, COMPLETE			(GNZ9D:TH)
	A-1111-487-A	SURROUND AMP BOARD, COMPLETE			(GNZ8D:TH)
		**********			
	7-685-872-09	SCREW +BVTT 3X8 (S) (GNZ8D/GNZ9D)			
		< CAPACITOR >			
C501	1-126-964-11	ELECT	10uF	20%	50V (GNZ8D/GNZ9D)
C502	1-162-294-31	CERAMIC	0.001uF	10%	50V (GNZ8D/GNZ9D)
C503	1-162-286-31	CERAMIC	220PF	10%	50V (GNZ8D/GNZ9D)
C504	1-126-964-11	ELECT	10uF	20%	50V (GNZ8D/GNZ9D)
C506	1-136-497-81	FILM	0.1uF	5%	50V (GNZ8D/GNZ9D)

SURROUND AMP

Ref. No.	Part No.	Description			Remark
C507	1-136-497-81	FILM	0.1uF	5% 50V	(GNZ8D/GNZ9D)
C508	1-126-968-11	ELECT	100uF	20% 50V	(GNZ8D/GNZ9D)
C510	1-162-199-31	CERAMIC	10PF	5% 50V	(GNZ8D/GNZ9D)
C511	1-162-199-31	CERAMIC	10PF	5% 50V	(GNZ8D/GNZ9D)
C512	1-162-199-31	CERAMIC	10PF	5% 50V	(GNZ8D/GNZ9D)
C520	1-126-933-11	ELECT	100uF	20% 16V	(GNZ8D/GNZ9D)
C521	1-126-933-11	ELECT	100uF	20% 16V	(GNZ8D/GNZ9D)
C541	1-126-964-11	ELECT	10uF	20% 50V	(GNZ8D/GNZ9D)
C542	1-162-294-31	CERAMIC	0.001uF	10% 50V	(GNZ8D/GNZ9D)
C543	1-162-286-31	CERAMIC	220PF	10% 50V	(GNZ8D/GNZ9D)
C544	1-126-964-11	ELECT	10uF	20% 50V	(GNZ8D/GNZ9D)
C546	1-136-497-81	FILM	0.1uF	5% 50V	(GNZ8D/GNZ9D)
C547	1-136-497-81	FILM	0.1uF	5% 50V	(GNZ8D/GNZ9D)
C551	1-126-964-11	ELECT	10uF	20% 50V	(GNZ8D/GNZ9D)
C552	1-162-294-31	CERAMIC	0.001uF	10% 50V	(GNZ8D/GNZ9D)
C553	1-162-286-31	CERAMIC	220PF	10% 50V	(GNZ8D/GNZ9D)
C554	1-126-964-11	ELECT	10uF	20% 50V	(GNZ8D/GNZ9D)
C556	1-136-497-81	FILM	0.1uF	5% 50V	(GNZ8D/GNZ9D)
C557	1-136-497-81	FILM	0.1uF	5% 50V	(GNZ8D/GNZ9D)
C558	1-126-968-11	ELECT	100uF	20% 50V	(GNZ8D/GNZ9D)
C573	1-137-844-21	ELECT	2200uF	20% 42V	(GNZ8D/GNZ9D)
C574	1-137-844-21	ELECT	2200uF	20% 42V	(GNZ8D/GNZ9D)
		< CONNECTOR >			
CN502	1-785-318-11	PIN, CONNECTOR (STRAIGHT) 6P			(GNZ8D/GNZ9D)
CN572	1-564-506-11	PLUG, CONNECTOR 3P (GNZ8D/GNZ9D)			
		< DIODE >			
D501	8-719-991-33	DIODE 1SS133T-77 (GNZ8D/GNZ9D)			
D520	8-719-109-85	DIODE RD5.1ESB2 (GNZ8D/GNZ9D)			
D541	8-719-991-33	DIODE 1SS133T-77 (GNZ8D/GNZ9D)			
D542	8-719-991-33	DIODE 1SS133T-77 (GNZ8D/GNZ9D)			
D551	8-719-991-33	DIODE 1SS133T-77 (GNZ8D/GNZ9D)			
D552	8-719-991-33	DIODE 1SS133T-77 (GNZ8D/GNZ9D)			
D571	8-719-510-68	DIODE D5SBA204101 (GNZ8D/GNZ9D)			
D581	8-719-991-33	DIODE 1SS133T-77 (GNZ8D/GNZ9D)			
D582	8-719-991-33	DIODE 1SS133T-77 (GNZ8D/GNZ9D)			
D587	8-719-991-33	DIODE 1SS133T-77 (GNZ8D/GNZ9D)			

Ref. No.	Part No.	Description			Remark
D588	8-719-991-33	DIODE 1SS133T-77 (GNZ8D/GNZ9D)			
D589	8-719-991-33	DIODE 1SS133T-77 (GNZ8D/GNZ9D)			
D591	8-719-991-33	DIODE 1SS133T-77 (GNZ9D)			
		< IC >			
IC501	6-707-960-01	IC STK433-270 (GNZ8D/GNZ9D)			
		< TRANSISTOR >			
Q501	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA			(GNZ8D/GNZ9D)
Q516	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA			(GNZ8D/GNZ9D)
Q517	8-729-119-78	TRANSISTOR 2SC2785-HFE (GNZ8D/GNZ9D)			
Q520	8-729-119-78	TRANSISTOR 2SC2785-HFE (GNZ8D/GNZ9D)			
Q541	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA			(GNZ8D/GNZ9D)
Q551	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA			(GNZ8D/GNZ9D)
Q581	8-729-026-39	TRANSISTOR 2SA933AS-QT (GNZ8D/GNZ9D)			
Q584	8-729-029-66	TRANSISTOR DTC114ESA (GNZ8D/GNZ9D)			
		< RESISTOR >			
R501	1-247-831-11	CARBON	1K	5% 1/4W	(GNZ8D/GNZ9D)
R502	1-247-871-11	CARBON	47K	5% 1/4W	(GNZ8D/GNZ9D)
R503	1-249-415-11	CARBON	680	5% 1/4W	(GNZ9D)
R503	1-249-416-11	CARBON	820	5% 1/4W	(GNZ8D)
R504	1-247-871-11	CARBON	47K	5% 1/4W	(GNZ8D/GNZ9D)
⚠R505	1-208-602-11	METAL	0.22X2	2W F	(GNZ8D/GNZ9D)
R507	1-247-831-11	CARBON	1K	5% 1/4W	(GNZ8D/GNZ9D)
R508	1-249-431-11	CARBON	15K	5% 1/4W	(GNZ8D/GNZ9D)
R509	1-247-879-11	CARBON	100K	5% 1/4W	(GNZ8D/GNZ9D)
⚠R510	1-260-076-11	CARBON	10	5% 1/2W F	(GNZ8D/GNZ9D)
⚠R511	1-212-881-11	FUSIBLE	100	5% 1/4W F	(GNZ8D/GNZ9D)
R514	1-249-427-11	CARBON	6.8K	5% 1/4W	(GNZ8D/GNZ9D)
R515	1-249-429-11	CARBON	10K	5% 1/4W	(GNZ8D/GNZ9D)
R516	1-249-429-11	CARBON	10K	5% 1/4W	(GNZ8D/GNZ9D)
R517	1-249-429-11	CARBON	10K	5% 1/4W	(GNZ8D/GNZ9D)
R518	1-249-429-11	CARBON	10K	5% 1/4W	(GNZ8D/GNZ9D)
⚠R520	1-202-972-61	FUSIBLE	1	5% 1/4W F	(GNZ8D/GNZ9D)
⚠R521	1-202-972-61	FUSIBLE	1	5% 1/4W F	(GNZ8D/GNZ9D)
R522	1-249-429-11	CARBON	10K	5% 1/4W	(GNZ8D/GNZ9D)
R531	1-247-871-11	CARBON	47K	5% 1/4W	(GNZ8D/GNZ9D)

Ref. No.	Part No.	Description			Remark
R532	1-247-873-11	CARBON	56K	5% 1/4W	(GNZ8D/GNZ9D)
R533	1-249-439-11	CARBON	68K	5% 1/4W	(GNZ8D/GNZ9D)
R541	1-247-831-11	CARBON	1K	5% 1/4W	(GNZ8D/GNZ9D)
R542	1-247-871-11	CARBON	47K	5% 1/4W	(GNZ8D/GNZ9D)
R543	1-249-416-11	CARBON	820	5% 1/4W	(GNZ9D)
R543	1-247-831-11	CARBON	1K	5% 1/4W	(GNZ8D)
R544	1-247-871-11	CARBON	47K	5% 1/4W	(GNZ8D/GNZ9D)
⚠R545	1-208-602-11	METAL	0.22X2	2W F	(GNZ8D/GNZ9D)
R547	1-247-831-11	CARBON	1K	5% 1/4W	(GNZ8D/GNZ9D)
R548	1-249-431-11	CARBON	15K	5% 1/4W	(GNZ8D/GNZ9D)
R549	1-247-879-11	CARBON	100K	5% 1/4W	(GNZ8D/GNZ9D)
⚠R550	1-260-076-11	CARBON	10	5% 1/2W F	(GNZ8D/GNZ9D)
R551	1-247-831-11	CARBON	1K	5% 1/4W	(GNZ8D/GNZ9D)
R552	1-247-871-11	CARBON	47K	5% 1/4W	(GNZ8D/GNZ9D)
R553	1-249-415-11	CARBON	680	5% 1/4W	(GNZ9D)
R553	1-249-416-11	CARBON	820	5% 1/4W	(GNZ8D)
R554	1-247-871-11	CARBON	47K	5% 1/4W	(GNZ8D/GNZ9D)
⚠R555	1-208-602-11	METAL	0.22X2	2W F	(GNZ8D/GNZ9D)
R557	1-247-831-11	CARBON	1K	5% 1/4W	(GNZ8D/GNZ9D)
R558	1-249-431-11	CARBON	15K	5% 1/4W	(GNZ8D/GNZ9D)
R559	1-247-879-11	CARBON	100K	5% 1/4W	(GNZ8D/GNZ9D)
⚠R560	1-260-076-11	CARBON	10	5% 1/2W F	(GNZ8D/GNZ9D)
⚠R561	1-212-881-11	FUSIBLE	100	5% 1/4W F	(GNZ8D/GNZ9D)
R573	1-247-879-11	CARBON	100K	5% 1/4W	(GNZ8D/GNZ9D)
R574	1-247-879-11	CARBON	100K	5% 1/4W	(GNZ8D/GNZ9D)
R587	1-247-871-11	CARBON	47K	5% 1/4W	(GNZ8D/GNZ9D)
R588	1-247-871-11	CARBON	47K	5% 1/4W	(GNZ8D/GNZ9D)
R589	1-247-871-11	CARBON	47K	5% 1/4W	(GNZ8D/GNZ9D)
R590	1-249-429-11	CARBON	10K	5% 1/4W	(GNZ8D/GNZ9D)
R593	1-247-871-11	CARBON	47K	5% 1/4W	(GNZ9D)
⚠R594	1-215-888-00	METAL OXIDE	220	5% 2W F	(GNZ8D)
⚠R594	1-216-455-11	METAL OXIDE	560	5% 2W F	(GNZ9D)
R597	1-247-831-11	CARBON	1K	5% 1/4W	(GNZ8D/GNZ9D)
R598	1-247-863-11	CARBON	22K	5% 1/4W	(GNZ8D/GNZ9D)
⚠R599	1-215-888-00	METAL OXIDE	220	5% 2W F	(GNZ8D)
⚠R599	1-216-455-11	METAL OXIDE	560	5% 2W F	(GNZ9D)
		< RELAY >			
RY581	1-515-920-11	RELAY (24V) (GNZ8D/GNZ9D)			
RY582	1-515-920-11	RELAY (24V) (GNZ8D/GNZ9D)			
		< THERMISTOR >			
TH501	1-807-796-11	THERMISTOR 10K (GNZ8D/GNZ9D)			
		< TERMINAL BOARD >			
TM501	1-694-674-22	TERMINAL BOARD (6P) (SURROUND SPEAKER)			(GNZ8D)
TM501	1-694-914-11	TERMINAL BOARD (8P) (SURROUND SPEAKER)			(GNZ9D)
**********					
	1-687-669-12	SW BOARD			
		*********			
		< SWITCH >			
S751	1-786-514-11	SWITCH, LEVER (SLIDE)			(OPEN/CLOSE DETECT)
**********					
		TRANS BOARD			
		**********			
	1-533-217-41	HOLDER, FUSE			
		< CAPACITOR >			
C913	1-126-968-11	ELECT	100uF	20%	50V
C915	1-164-159-11	CERAMIC	0.1uF		50V
C918	1-128-576-11	ELECT	100uF	20%	63V
		< CONNECTOR >			
* CN913	1-564-518-11	PLUG, CONNECTOR 3P (GNZ8D/GNZ9D)			
* CN914	1-564-525-11	PLUG, CONNECTOR 10P			
* CN915	1-564-519-11	PLUG, CONNECTOR 4P			
		< DIODE >			
D911	6-500-522-11	DIODE 10EDB40-TA2B5			
D912	8-719-982-19	DIODE MTZJ-30A			
D913	8-719-118-67	DIODE RD6.2F-T7B3			
		< TRANSISTOR >			
Q902	8-729-140-97	TRANSISTOR 2SB734-34			
		< RESISTOR >			
⚠R911	1-217-637-00	FUSIBLE	1	5% 1/4W F	
R914	1-249-429-11	CARBON	10K	5% 1/4W	

TRANS **VIDEO**

Ref. No.	Part No.	Description			Remark
R915	1-247-807-31	CARBON	100	5%	1/4W
R916	1-247-807-31	CARBON	100	5%	1/4W
R919	1-249-429-11	CARBON	10K	5%	1/4W
**********					
	A-1095-819-A	VIDEO BOARD, COMPLETE (EXCEPT TH)			
	A-1111-533-A	VIDEO BOARD, COMPLETE (TH)			
		**********			
		< CAPACITOR >			
C801	1-104-655-11	ELECT	470uF	20%	6.3V
C802	1-162-306-11	CERAMIC	0.01uF	20%	16V
C803	1-104-658-11	ELECT	100uF	20%	10V
C804	1-162-306-11	CERAMIC	0.01uF	20%	16V
C811	1-126-960-11	ELECT	1uF	20%	50V
C812	1-126-960-11	ELECT	1uF	20%	50V
C813	1-126-960-11	ELECT	1uF	20%	50V
C814	1-126-960-11	ELECT	1uF	20%	50V
C815	1-126-960-11	ELECT	1uF	20%	50V
C816	1-126-960-11	ELECT	1uF	20%	50V
C818	1-126-960-11	ELECT	1uF	20%	50V
C819	1-126-916-11	ELECT	1000uF	20%	6.3V
C820	1-126-916-11	ELECT	1000uF	20%	6.3V
C821	1-126-916-11	ELECT	1000uF	20%	6.3V
C822	1-126-916-11	ELECT	1000uF	20%	6.3V
C823	1-164-159-11	CERAMIC	0.1uF		50V
C824	1-126-916-11	ELECT	1000uF	20%	6.3V
C825	1-162-282-31	CERAMIC	100PF	10%	50V
C831	1-162-306-11	CERAMIC	0.01uF	20%	16V
C832	1-126-960-11	ELECT	1uF	20%	50V
C833	1-162-282-31	CERAMIC	100PF	10%	50V
C835	1-104-658-11	ELECT	100uF	20%	10V
C840	1-162-282-31	CERAMIC	100PF	10%	50V
C841	1-162-282-31	CERAMIC	100PF	10%	50V
C842	1-162-282-31	CERAMIC	100PF	10%	50V
C843	1-162-282-31	CERAMIC	100PF	10%	50V
C844	1-162-282-31	CERAMIC	100PF	10%	50V
C850	1-126-942-61	ELECT	1000uF	20%	25V
C851	1-164-159-11	CERAMIC	0.1uF		50V
C852	1-117-245-11	ELECT	330uF	20%	6.3V
C853	1-126-960-11	ELECT	1uF	20%	50V
C854	1-164-159-11	CERAMIC	0.1uF		50V
C856	1-117-245-11	ELECT	330uF	20%	6.3V
C862	1-117-317-11	ELECT	1000uF	20%	25V
C863	1-128-646-11	ELECT	1000uF	20%	6.3V
C865	1-117-245-11	ELECT	330uF	20%	6.3V
C866	1-117-245-11	ELECT	330uF	20%	6.3V
C872	1-164-159-11	CERAMIC	0.1uF		50V
C873	1-104-658-11	ELECT	100uF	20%	10V
		< CONNECTOR >			
CN801	1-779-281-11	CONNECTOR, FFC (LIF(NON-ZIF)) 13P			
* CN851	1-564-728-11	PIN, CONNECTOR (SMALL TYPE) 12P			
		< DIODE >			
D861	8-719-210-21	DIODE 11EQS04			

Ref. No.	Part No.	Description			Remark
		< GROUND TERMINAL >			
EP801	1-537-771-21	TERMINAL BOARD, GROUND			
EP851	1-537-771-21	TERMINAL BOARD, GROUND			
		< COIL >			
FB831	1-412-473-21	INDUCTOR (SMALL TYPE)			
		< IC >			
IC801	6-705-602-01	IC MM1623BFBE			
IC802	6-703-622-01	IC MM1508XNRE			
IC851	6-705-463-01	IC BA33BC0T			
IC861	8-759-474-09	IC SI-8050S-LF1101			
		< JACK >			
J801	1-817-449-11	JACK, PIN 3P (COMPONENT VIDEO OUT)			
J802	1-794-970-11	JACK, PIN 1P (VIDEO OUT)			
		< CONNECTOR >			
J803	1-784-248-11	CONNECTOR (ROUND TYPE) (S VIDEO OUT)			
		< COIL >			
L801	1-410-470-11	INDUCTOR	10uH		
L802	1-410-470-11	INDUCTOR	10uH		
L861	1-456-513-11	INDUCTOR	150uH		
L862	1-414-741-11	INDUCTOR	10uH		
		< TRANSISTOR >			
Q861	8-729-029-66	TRANSISTOR DTC114ESA			
Q870	8-729-029-66	TRANSISTOR DTC114ESA			
		< RESISTOR >			
R800	1-247-807-31	CARBON	100	5%	1/4W
R803	1-249-429-11	CARBON	10K	5%	1/4W
R804	1-249-429-11	CARBON	10K	5%	1/4W
R805	1-249-429-11	CARBON	10K	5%	1/4W
R806	1-249-429-11	CARBON	10K	5%	1/4W
R810	1-247-804-11	CARBON	75	5%	1/4W
R811	1-247-804-11	CARBON	75	5%	1/4W
R812	1-247-804-11	CARBON	75	5%	1/4W
R813	1-247-804-11	CARBON	75	5%	1/4W
R814	1-247-804-11	CARBON	75	5%	1/4W
R815	1-247-804-11	CARBON	75	5%	1/4W
R816	1-247-804-11	CARBON	75	5%	1/4W
R817	1-247-804-11	CARBON	75	5%	1/4W
R818	1-247-879-11	CARBON	100K	5%	1/4W
R831	1-247-807-31	CARBON	100	5%	1/4W
R870	1-247-807-31	CARBON	100	5%	1/4W
R871	1-249-429-11	CARBON	10K	5%	1/4W
**********					
		MISCELLANEOUS			
		**********			
6	1-828-956-11	WIRE (FLAT TYPE) (9 CORE)			
55	1-828-977-11	WIRE (FLAT TYPE) (13 CORE)			
56	1-828-971-11	WIRE (FLAT TYPE) (13 CORE)			
57	1-829-041-11	WIRE (FLAT TYPE) (27 CORE)			
58	1-797-246-11	DECK, MECHANISM			

Ref. No.	Part No.	Description	Remark
59	1-828-332-11	WIRE (FLAT TYPE) (13 CORE)	
202	1-828-344-11	WIRE (FLAT TYPE) (15 CORE) (GNZ8D/GNZ9D)	
202	1-828-354-11	WIRE (FLAT TYPE) (17 CORE) (GNZ7D)	
203	1-828-330-11	WIRE (FLAT TYPE) (13 CORE)	
⚠254	1-696-847-22	CORD, POWER (AUS)	
⚠254	1-777-071-23	CORD, POWER (E12,E13,E51,EA,SP,PH)	
⚠254	1-824-818-21	CORD, POWER (WITH CONNECTOR) (TH)	
⚠254	1-827-226-11	CORD, POWER (E2,E3,E15,MX)	
⚠255	1-468-737-21	POWER, SWITCHING	
256	1-500-386-11	FILTER, CLAMP (FERRITE CORE) (AUS,EA)	
352	1-776-182-11	WIRE (FLAT TYPE) (5 CORE)	
421	1-828-771-11	WIRE (FLAT TYPE) (24 CORE)	
⚠422	8-820-291-02	OPTICAL PICK-UP (KHM-310CAB/C2RP)	
⚠F910	1-532-505-32	FUSE (5A/250V) (GNZ7D:EXCEPT E12,E13,TH)	
⚠F910	1-533-949-33	FUSE, CYLINDRICAL (TIME LUG) (8A/250V) (GNZ8D:EXCEPT E12,E13,TH/GNZ9D:EXCEPT E12,E13,AUS,TH)	
⚠F914	1-532-506-33	FUSE (6.3A/250V) (GNZ7D/GNZ8D)	
⚠F914	1-533-949-33	FUSE, CYLINDRICAL (TIME LUG) (8A/250V)	(GNZ9D)
⚠F915	1-532-506-33	FUSE (6.3A/250V) (GNZ7D/GNZ8D)	
⚠F915	1-533-949-33	FUSE, CYLINDRICAL (TIME LUG) (8A/250V)	(GNZ9D)
⚠F916	1-532-506-33	FUSE (6.3A/250V) (GNZ8D/GNZ9D)	
⚠F917	1-532-506-33	FUSE (6.3A/250V) (GNZ8D/GNZ9D)	
⚠F918	1-532-504-33	FUSE (4A/250V) (GNZ7D)	
⚠F918	1-532-505-33	FUSE (5A/250V) (GNZ8D/GNZ9D)	
⚠F919	1-532-504-33	FUSE (4A/250V)	
FAN901	1-763-072-11	FAN, DC	
FAN902	1-787-336-11	FAN, DC (GNZ9D)	
IC941	8-759-198-03	IC PQ09RF21J00H	
IC942	8-759-701-59	IC NJM78M09FA	
IC943	8-759-701-59	IC NJM78M09FA	
IC945	6-703-546-01	IC TA7804LS	
M741	A-4723-963-A	MOTOR ASSY, TABLE (TABLE)	
M751	A-4736-655-A	MOTOR ASSY, LOADING (LOADING)	
RE701	1-477-680-12	ENCODER, ROTARY	(DISC TRAY ADDRESS DETECT)
⚠T911	1-443-174-11	TRANSFORMER, POWER (GNZ7D:EXCEPT EA)	
⚠T911	1-443-175-11	TRANSFORMER, POWER (GNZ7D:EA)	
⚠T911	1-443-352-11	TRANSFORMER, POWER (GNZ8D:EXCEPT EA)	
⚠T911	1-443-362-11	TRANSFORMER, POWER (GNZ8D:EA)	
⚠T911	1-443-690-11	TRANSFORMER, POWER	(GNZ9D:EXCEPT EA,MX)
⚠T911	1-443-691-11	TRANSFORMER, POWER (GNZ9D:EA,MX)	
TN1	1-693-671-11	TUNER (TM-10E)	
		ACCESSORIES	
		**********	
⚠	1-770-019-51	ADAPTOR, CONVERSION PLUG (EA)	
⚠	1-785-072-12	ADAPTOR, CONVERSION (E3,E15)	
⚠	1-785-072-21	ADAPTOR, CONVERSION (E51,SP,MY,PH)	

MEMO

HCD-GNZ7D/GNZ8D/GNZ9D

SONY

E Model

HCD-GNZ7D/GNZ8D/GNZ9D

Australian Model

HCD-GNZ9D

SERVICE MANUAL

Ver. 1.1 2005. 12

SUPPLEMENT-1

File this supplement with the service manual.

Subject: Board changed to DMB11 board from DMB10 board

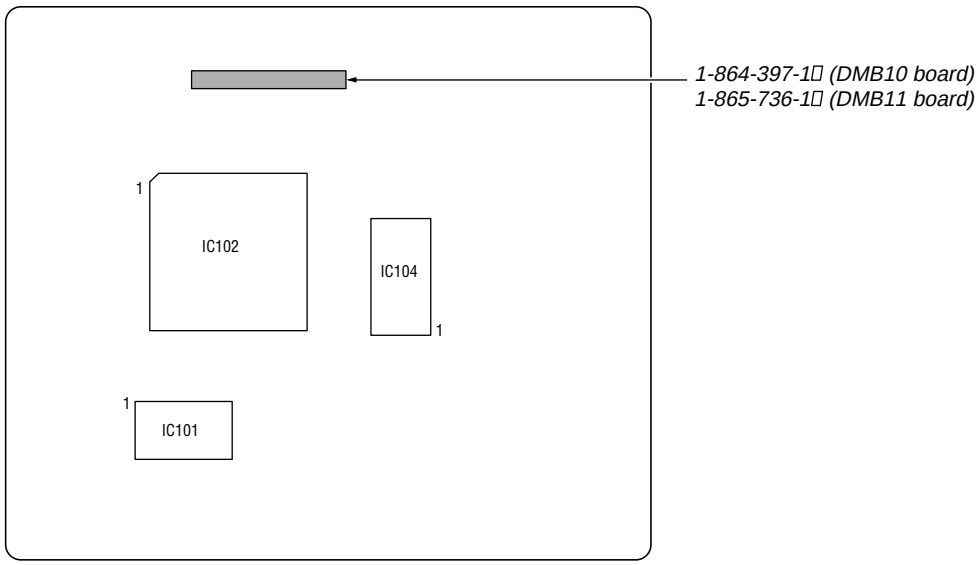
The DMB10 board has been changed to the DMB11 board in production.
This service manual supplement-1 describes only the printed wiring board for the DMB11 board.
The schematic diagram and electrical parts list of the DMB11 board are added in the DMB10 section of the original service manual.

9-879-622-81

HOW TO DISTINGNISH

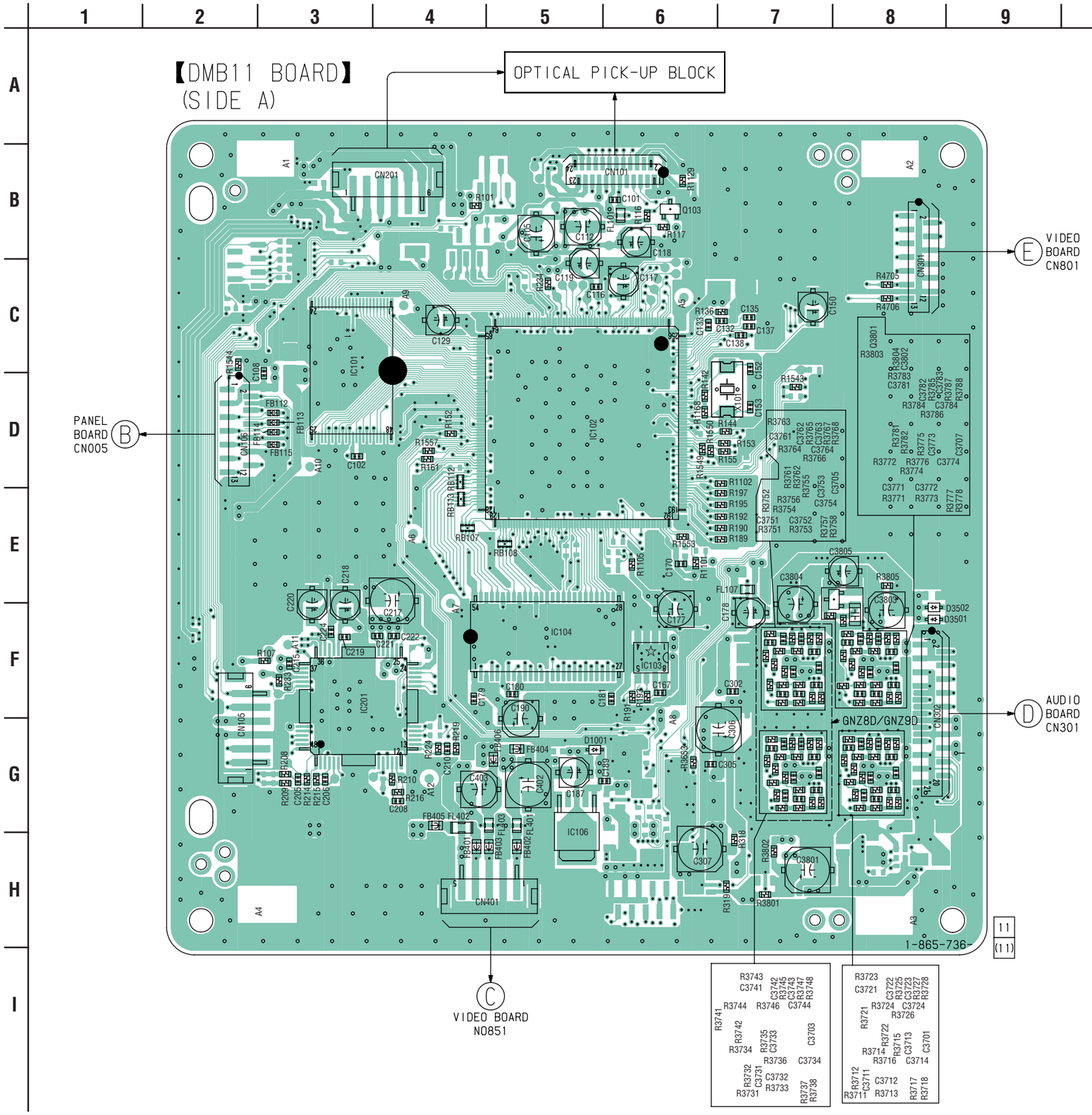
Location of parts number on changed board.

【DMB10 BOARD】(SIDE A)
【DMB11 BOARD】(SIDE A)



PRINTED WIRING BOARD — DMB11 SECTION (SIDE A) — : Uses unleaded solder.

☆ New part of EEP ROM (IC103) on the DMB11 board cannot be used. Therefore, if the mounted DMB11 board (A-1095-784-A, etc.) is replaced, exchange new EEP ROM (IC103) with that used before the replacement.



- **Semiconductor Location**

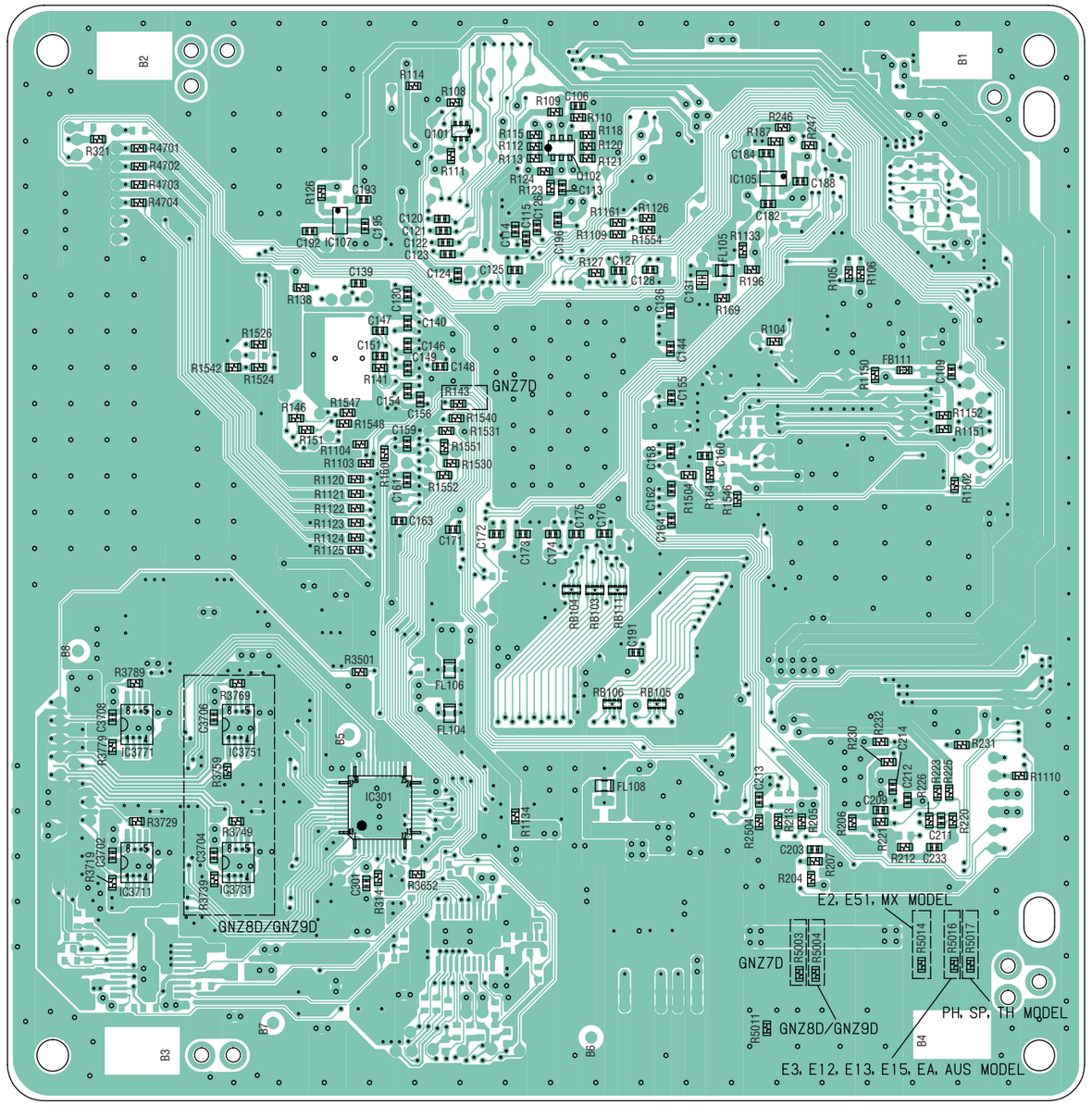
Ref. No.	Location
D1001	G-5
D3501	E-8
D3502	E-8
IC101	C-3
IC102	D-5
IC103	F-6
IC104	F-5
IC106	G-5
IC201	F-3
Q103	B-6
Q3801	E-8

PRINTED WIRING BOARD — DMB11 SECTION (SIDE B) — : **Uses unleaded solder.**

9 8 7 6 5 4 3 2 1

A B C D E F G H

【DMB11 BOARD】
(SIDE B)



1-865-736- 11 (11)

• **Semiconductor Location**

Ref. No.	Location
IC105	B-4
IC107	C-7
IC301	G-6
IC3711	G-8
IC3731	G-7
IC3751	F-7
IC3771	F-8
Q101	B-6
Q102	B-5

MEMO

REVISION HISTORY

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

Ver.	Date	Description of Revision
1.0	2005. 04	New
1.1	2005. 12	SUPPLEMENT-1: Board changed to DMB11 board from DMB10 board DVD section electrical adjustment alteration (SPM-05072, 05077)