

HCD-GNX600

SERVICE MANUAL

Ver.1.0 2006.04

*E Model
Australian Model*



- HCD-GNX600 is the Amplifier, CD player, tape deck and tuner section in MHC-GNX600.

CD Section	Model Name Using Similar Mechanism	HCD-GNX800
	CD Mechanism Type	CDM74KFS-F1BD81A
	Base Unit Name	BU-F1BD81A
	Optical Pick-up Name	KSM-215DCP/C2NP
TAPE Section	Model Name Using Similar Mechanism	HCD-GNX800
	Tape Transport Mechanism Type	CWN42FF601

SPECIFICATIONS

Amplifier section

The following are measured at

	120 V, 220 V, 240 V AC, 50/60 Hz
Front speakers	
DIN power output (rated)	130 + 130 watts (6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference)	160 + 160 watts(6 ohms at 1 kHz, 10% THD)
Sub woofer	
Continuous RMS power output (reference)	200 watts (4 ohms at 100 Hz, 10% THD)
TV (AUDIO) IN (phono jack)	
	voltage 250 mV, impedance 47 kilohms
MIC (phone jack)	sensitivity 1 mV, impedance 10 kilohms
Outputs	
PHONES (stereo mini jack)	accepts headphones of 8 ohms or more
FRONT SPEAKER/SUB WOOFER OUT	Use only the supplied speaker

Disc player section

System	Compact disc and digital audio system
Laser	Semiconductor laser ($\lambda=780$ nm) Emission duration: continuous Max. 44.6 μ W*
Laser Output	* This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block with 7 mm aperture.
Frequency response	2 Hz – 20 kHz (± 0.5 dB)
Wave length	780 – 790 nm
Signal-to-noise ratio	More than 90 dB
Dynamic range	More than 90 dB

Tape deck section

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

– Continued on next page –

MINI HI-FI COMPONENT SYSTEM

9-887-199-01

2006D02-1

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Sony Corporation

Home Audio Division

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Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range 87.5 – 108.0 MHz
 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)
 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
 Argentina model: 220 V AC, 50/60 Hz
 Other models: 120 V or 220 – 240 V AC,
 50/60 Hz
 Adjustable with voltage selector

Power consumption 110 watts

Dimensions (w/h/d) (Approx.) 280 × 326 × 385.5 mm

Mass (Approx.) 6.3 kg

Supplied accessories: Remote Commander (1)
 Batteries (2)
 AM loop antenna (1)
 FM lead antenna (1)
 Front speaker pads (8)
 Sub woofer pads (4)

Design and specifications are subject to change
 without notice.

Notes on chip component replacement

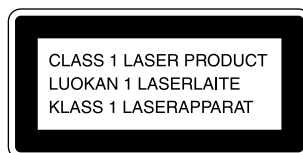
- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

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.

CAUTION

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



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

Unleaded solder

Boards requiring use of unleaded solder are printed with the lead free mark (LF) indicating the solder contains no lead.

(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size.)



: LEAD FREE MARK

Unleaded solder has the following characteristics.

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

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK \triangle OR DOTTED LINE WITH MARK \triangle ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

TABLE OF CONTENTS

1. SERVICING NOTES	4	7. DIAGRAMS	24
2. GENERAL		7-1. Block Diagram – CD Section –	26
Locating the Controls	5	7-2. Block Diagram – Tape/Tuner Section –	27
Setting the Clock	6	7-3. Block Diagram – Main Section –	28
3. DISASSEMBLY		7-4. Block Diagram – AMP Section –	29
3-1. Disassembly Flow	7	7-5. Block Diagram – Display/Power Section –	30
3-2. Side Case, Top Case	8	7-6. Printed Wiring Board – CD Board –	31
3-3. Loading Panel	8	7-7. Schematic Diagram – CD Board –	32
3-4. Front Panel Assy	9	7-8. Printed Wiring Boards – CD Mechanism Section –	33
3-5. Tuner Pack	9	7-9. Schematic Diagram – CD Mechanism Section –	34
3-6. Tape Mechanism Deck, MIC Board	10	7-10. Printed Wiring Board – MAIN Board –	35
3-7. PANEL Board, IR Board, VOL Board	10	7-11. Schematic Diagram – MAIN Board (1/3) –	36
3-8. CD Mechanism Deck	11	7-12. Schematic Diagram – MAIN Board (2/3) –	37
3-9. Back Panel, DC FAN (M891)	11	7-13. Schematic Diagram – MAIN Board (3/3) –	38
3-10. MAIN Board, ADC Board	12	7-14. Printed Wiring Board – PANEL Section –	39
3-11. POWER Board, SPEAKER Board	12	7-15. Schematic Diagram – PANEL Section –	40
3-12. SMASTER Board	13	7-16. Printed Wiring Boards	
3-13. DRIVER Board, SW Board	13	– MIC,VOL and SPEAKER Boards –	41
3-14. CD Board, Optical Pick-up	14	7-17. Schematic Diagram	
3-15. SENSOR Board	14	– MIC,VOL and SPEAKER Boards –	42
3-16. MOTOR (TB) Board	15	7-18. Printed Wiring Board – ADC Board –	43
3-17. MOTOR (LD) Board	15	7-19. Schematic Diagram – ADC Board –	44
4. TEST MODE	16	7-20. Printed Wiring Board – SMASTER Board (Side A)– ...	45
5. MECHANICAL ADJUSTMENTS	20	7-21. Printed Wiring Board – SMASTER Board (Side B)–	46
6. ELECTRICAL ADJUSTMENTS		7-22. Schematic Diagram – SMASTER Board (1/2)–	47
Deck section	20	7-23. Schematic Diagram – SMASTER Board (2/2)–	48
CD Section	21	7-24. Printed Wiring Boards – Power Board –	49
		7-25. Schematic Diagram – Power Board –	50
		7-26. IC Pin Function Description	54
		8. EXPLODED VIEWS	
		8-1. Case (Top), Back Panel Section	61
		8-2. Front Panel Section	62
		8-3. Chassis Section	63
		8-4. CD Mechanism Deck Section-1	64
		8-5. CD Mechanism Deck Section-2	65
		9. ELECTRICAL PARTS LIST	66

SECTION 1
SERVICING NOTES

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

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

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

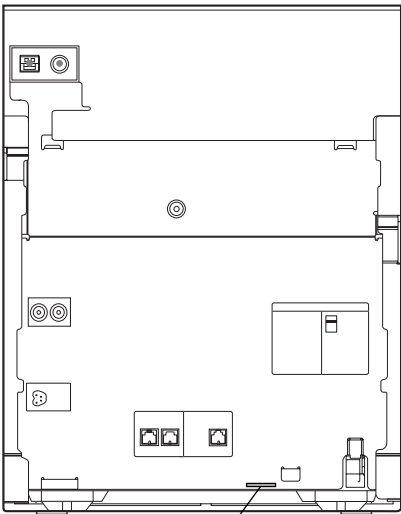
NOTES ON LASER DIODE EMISSION CHECK

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

LASER DIODE AND FOCUS SEARCH OPERATION CHECK

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

• MODEL IDENTIFICATION
– Back Panel –



MODEL	PART No.
E2 model	2-658-970-0□
AUS model	2-658-970-2□
E3 model	2-658-970-3□
E51 model	2-658-970-4□
AR model	2-658-970-5□

- Abbreviation
 - AR : Argentina model
 - AUS : Australian model
 - E2 : 120 V AC Area in E model
 - E3 : 240 V AC Area in E model
 - E51 : Chilean and Peruvian model

SECTION 2 GENERAL

This section is extracted
from instruction manual.

LOCATING THE CONTROLS

ALPHABETICAL ORDER

A-D

ALBUM + [18]
ALBUM - [19]
CD [32]
CD SYNC [8]
Deck A [26]
Deck B [16]
DIRECTION [25]
DISC 1 ~ 3 [11]
DISC SKIP/EX-CHANGE [12]
Disc tray [6]
DISPLAY [3]
Display [5]

E-L

ECHO LEVEL [21]
EQ BAND/MEMORY [4]
GROOVE [20]
ILLUMINATION/
SUB WOOFER LEVEL [2]

M-R

MASTER VOLUME [22]
MIC 1/2 (jack) [24]
MIC 1/2 LEVEL [23]
MP3 BOOSTER [7]
PHONES (jack) [17]
POWER ILLUMINATOR [28]
PRESET EQ [27]
REC PAUSE/START [9]

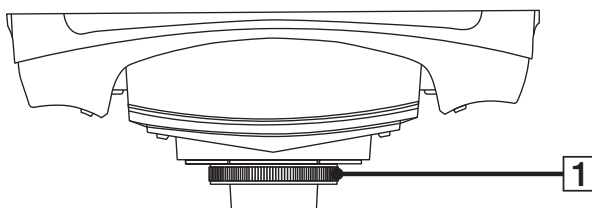
S-Z

SUB WOOFER ON/OFF [33]
TAPE A/B [30]
Tape lid [16], [26]
TUNER/BAND [31]
TV [29]

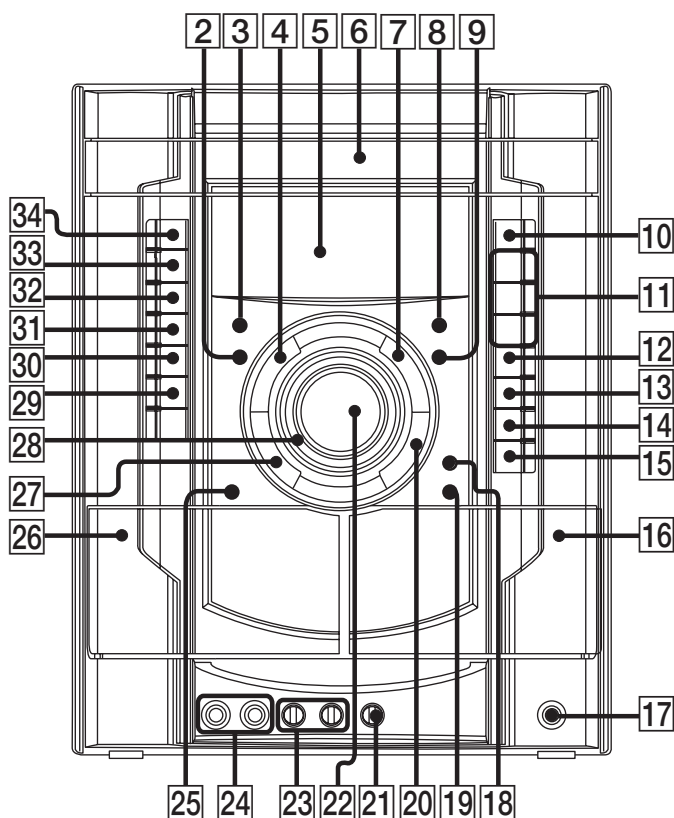
SYMBOLS

I/⏻ (power) [34]
▲ OPEN/CLOSE [10]
▶ (play) [13]
◀◀ OPERATION DIAL ▶▶
(forward/go backward) [1]
▶▶ (fast forward) [18]
◀◀ (rewind) [19]
⏸ (pause) [14]
■ (stop) [15]
PUSH ▲ (Eject A) [26]
PUSH ▲ (Eject B) [16]

Top Panel



Front Panel



Remote control

ALPHABETICAL ORDER

A – E

ALBUM + [14]
ALBUM – [16]
CD [24]
CLEAR [18]
CLOCK/TIMER SELECT [2]
CLOCK/TIMER SET [4]
DISC SKIP [13]
DISPLAY [26]
ENTER [12]
EQ [17]

F – Z

FM MODE [6]
FUNCTION [8]
PLAY MODE [5]
REPEAT [6]
SLEEP [1]

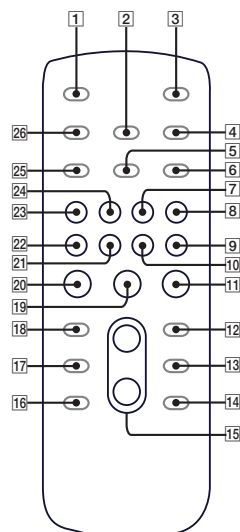
TAPE [23]
TUNER/BAND [7]
TUNER MEMORY [25]
TUNING MODE [5]
VOLUME +/- [15]

The + button has a tactile dot.*

SYMBOLS

I/⏻ (power) [3]
■ (stop) [11]
29, 31)
⏸ (pause) [19]
▶ (play) [20]
◀◀ (go backward) [22]
▶▶+ (go forward) [21]
◀◀ (rewind) [10]
▶▶ (fast forward) [9]

* Use the tactile dot as a reference
when operating the system.



Setting the clock

Use buttons on the remote for the operation.

- 1 Press I/⏻ to turn on the system.**
- 2 Press CLOCK/TIMER SET.**
“CLOCK” appears in the display. Then, the hour indication flashes in the display.
- 3 Press ◀◀ or ▶▶+ repeatedly to set the hour.**
- 4 Press ENTER.**
The minute indication flashes in the display.
- 5 Press ◀◀ or ▶▶+ repeatedly to set the minute.**
- 6 Press ENTER.**
The clock starts functioning.

To adjust the clock

- 1 Press CLOCK/TIMER SET.**
“SET” appears in the display, then “PLAY SET” flashes in the display.
- 2 Press ◀◀ or ▶▶+ repeatedly to select “CLOCK SET”, then press ENTER.**
The hour indication flashes in the display.
- 3 Do the same procedures as step 3 to 6 above.**

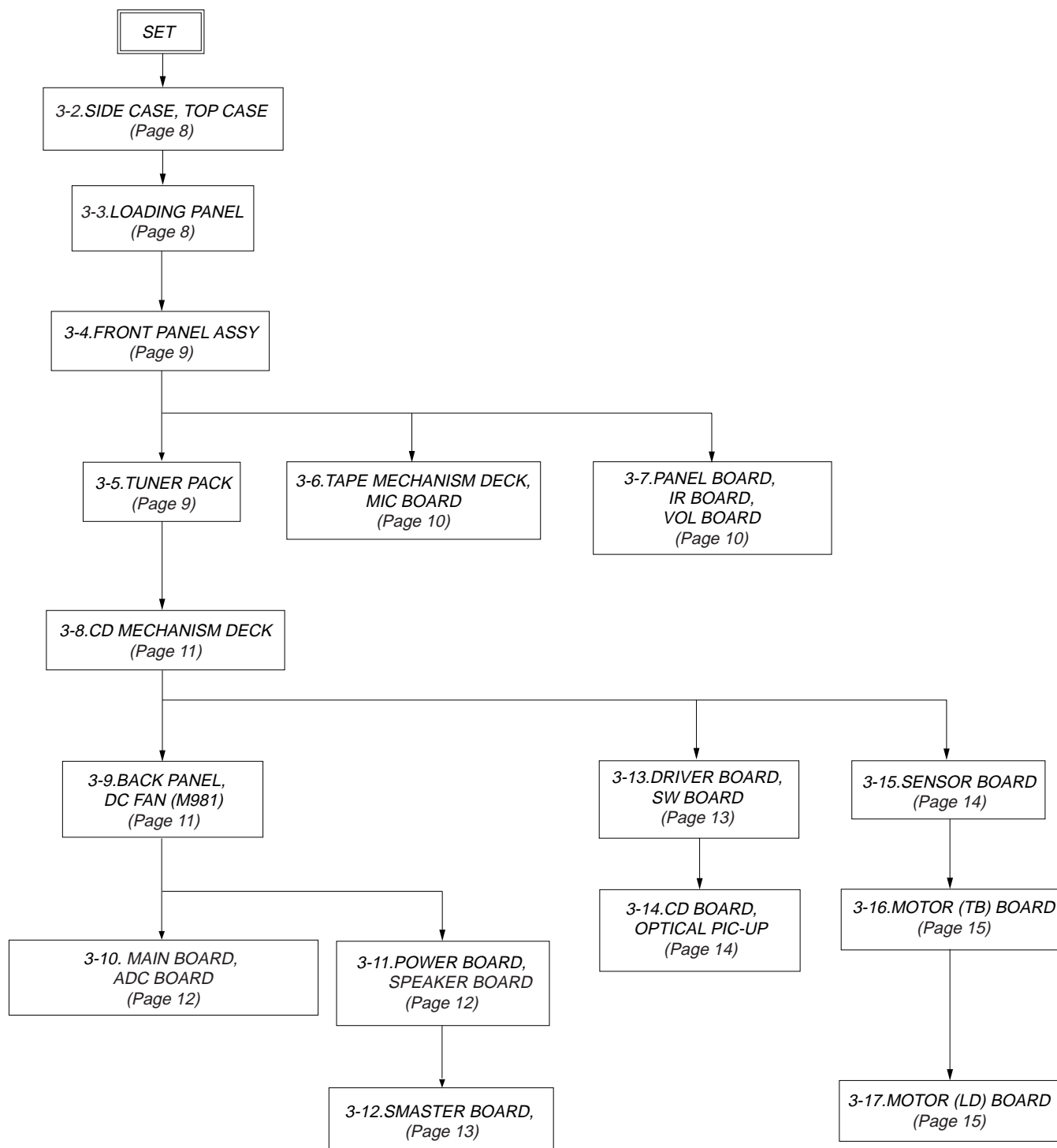
Notes

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

SECTION 3 DISASSEMBLY

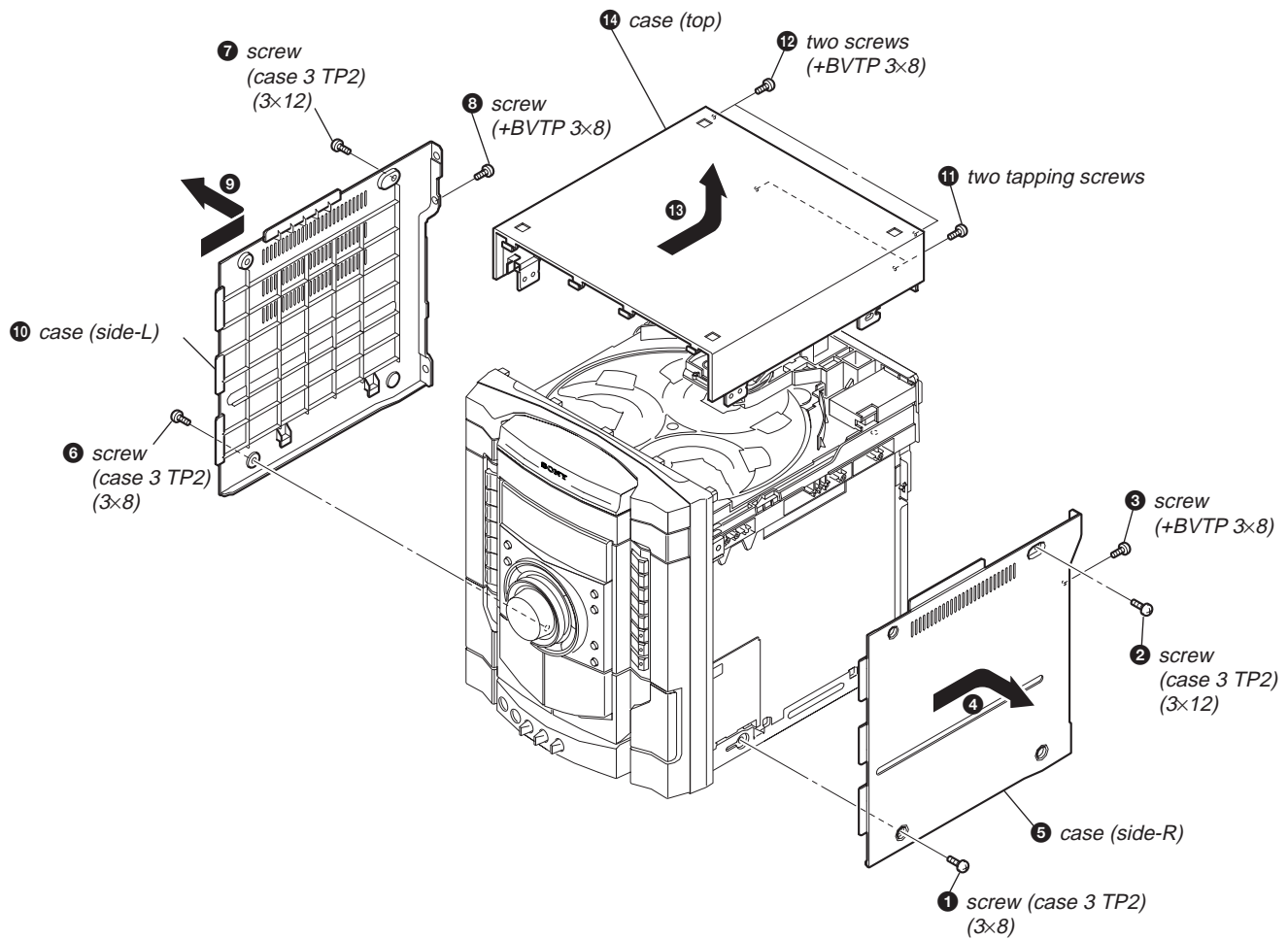
- This set can be disassembled in the order shown below.

3-1. DISASSEMBLY FLOW

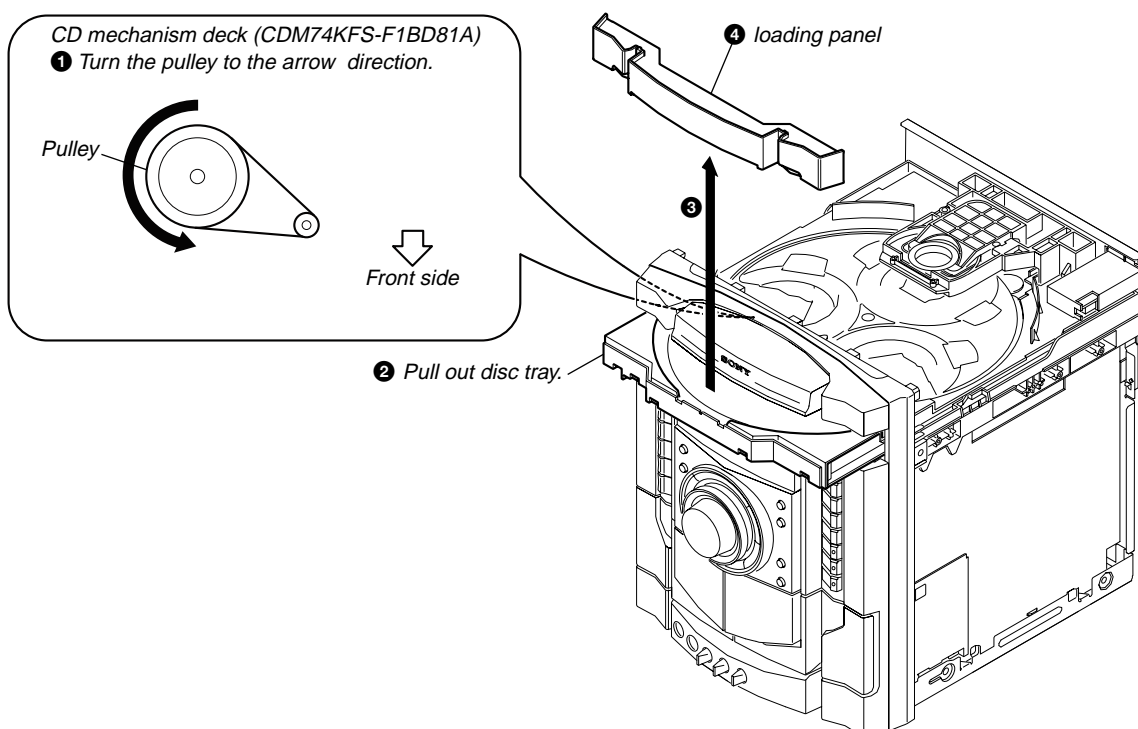


Note: Follow the disassembly procedure in the numerical order given.

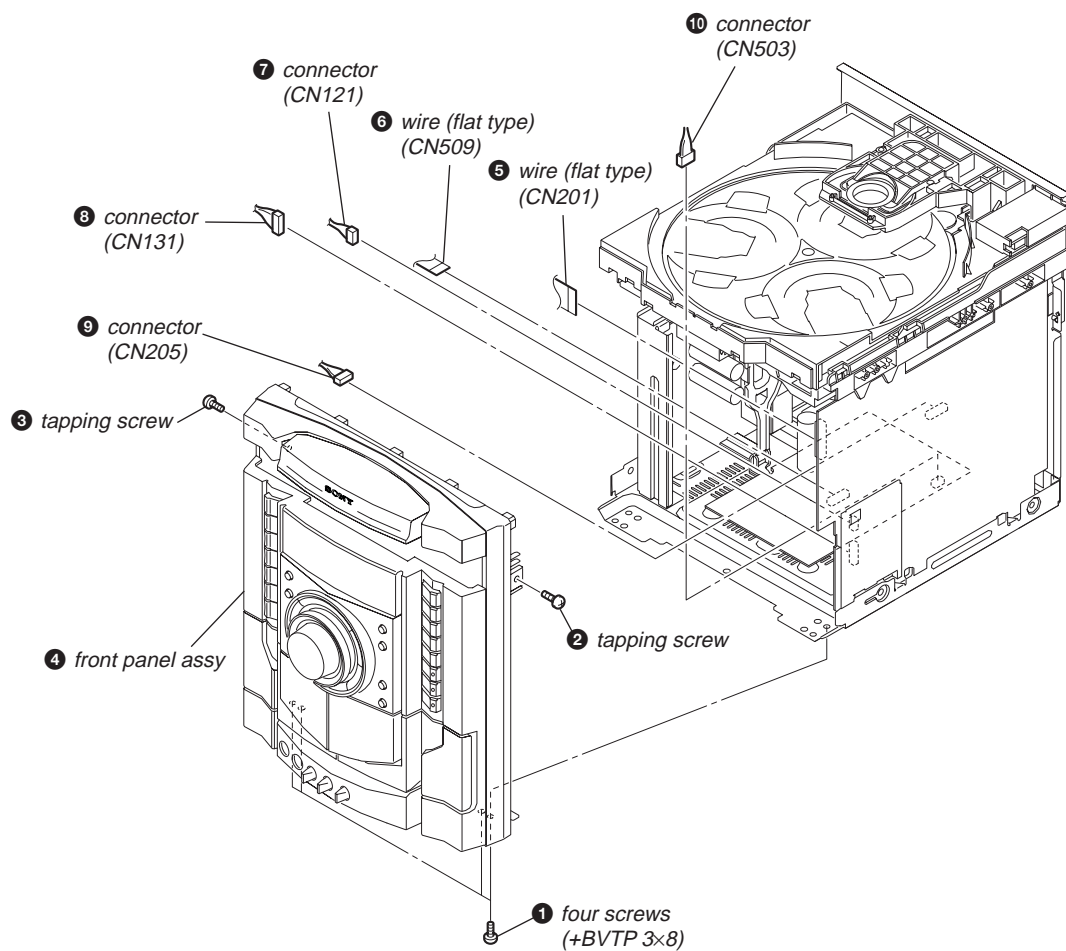
3-2. SIDE CASE, TOP CASE



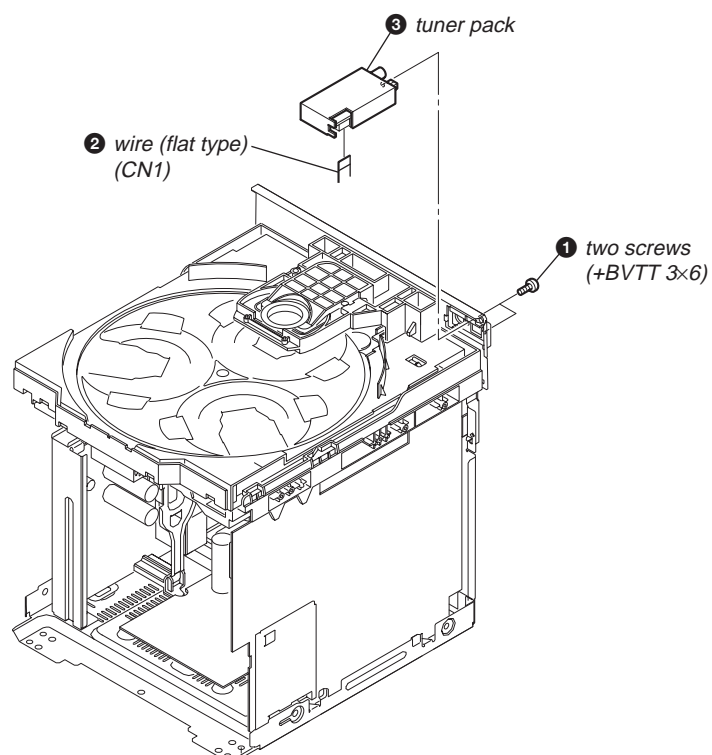
3-3. LOADING PANEL



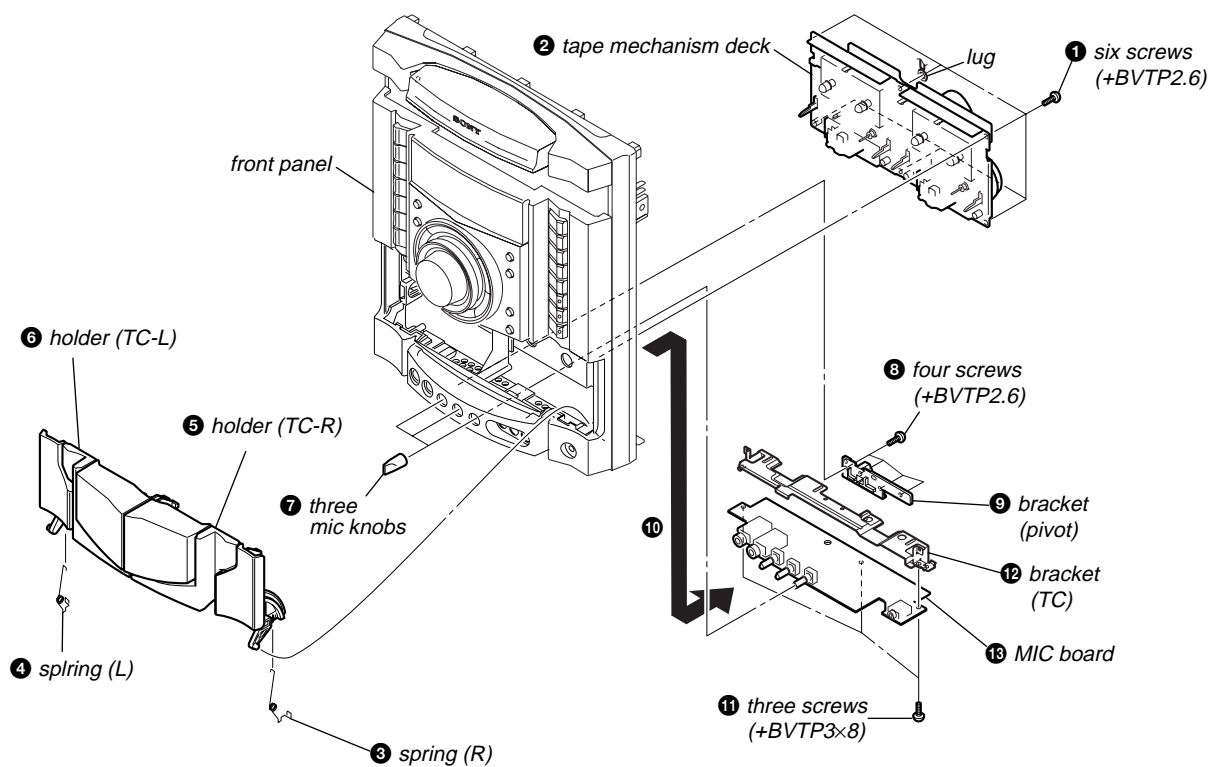
3-4. FRONT PANEL ASSY



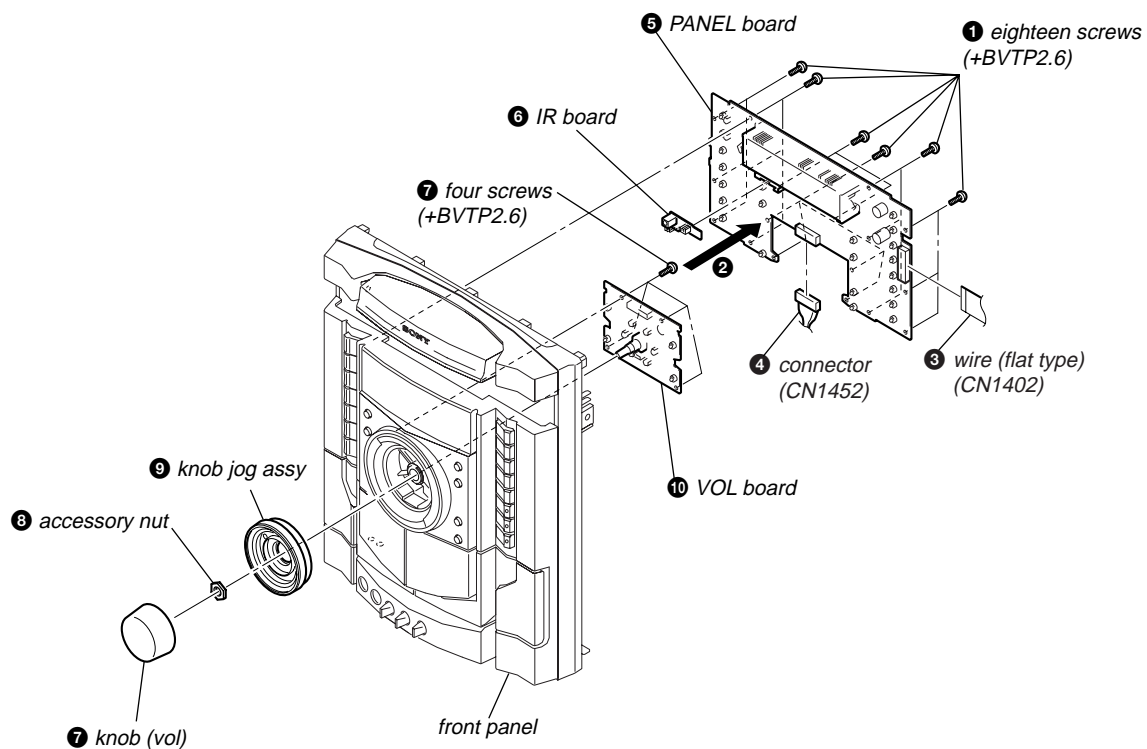
3-5. TUNER PACK



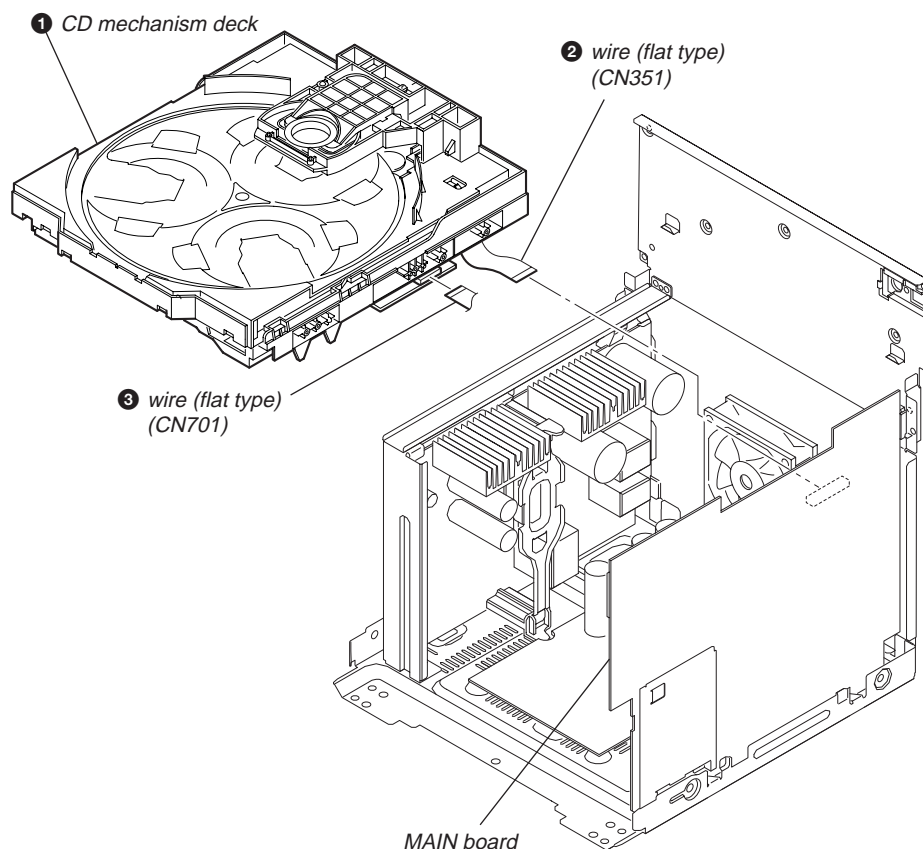
3-6. TAPE MECHANISM DECK, MIC BOARD



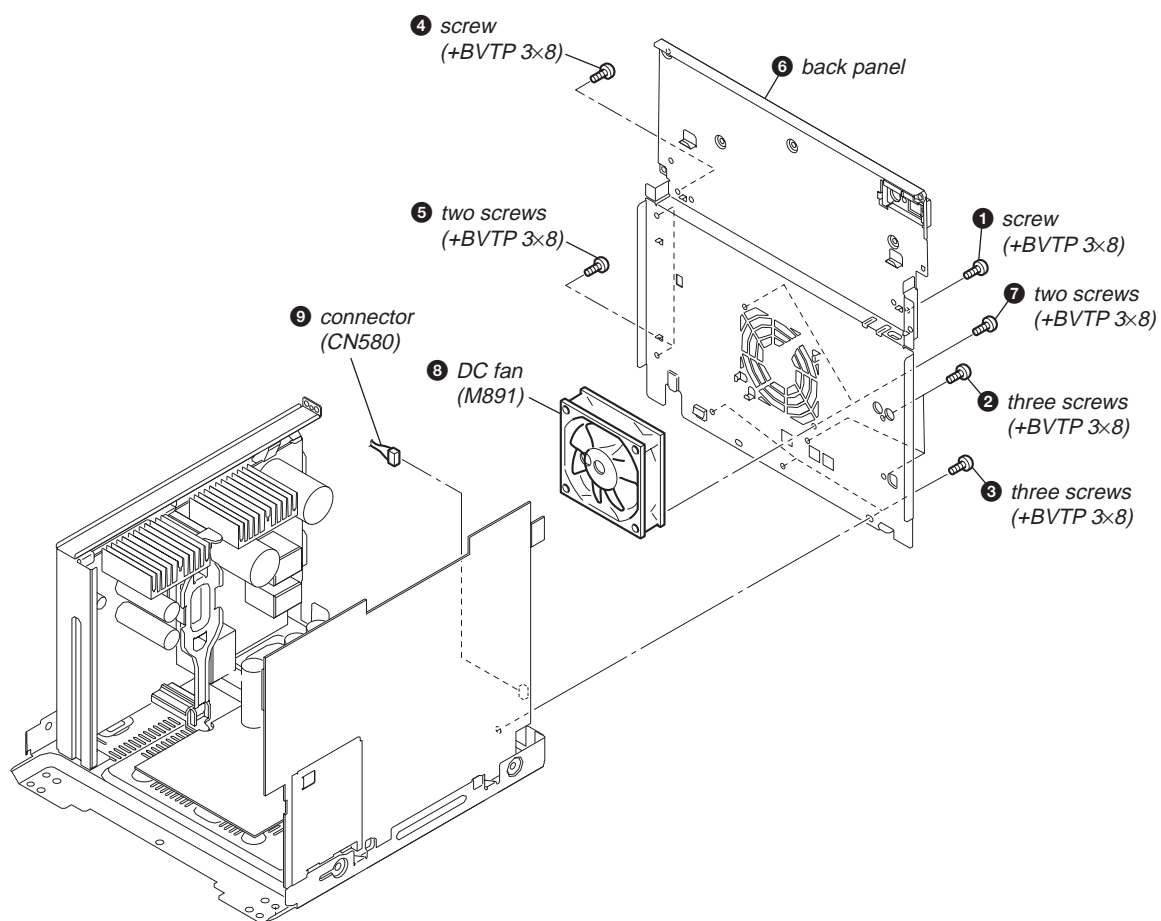
3-7. PANEL BOARD, IR BOARD, VOL BOARD



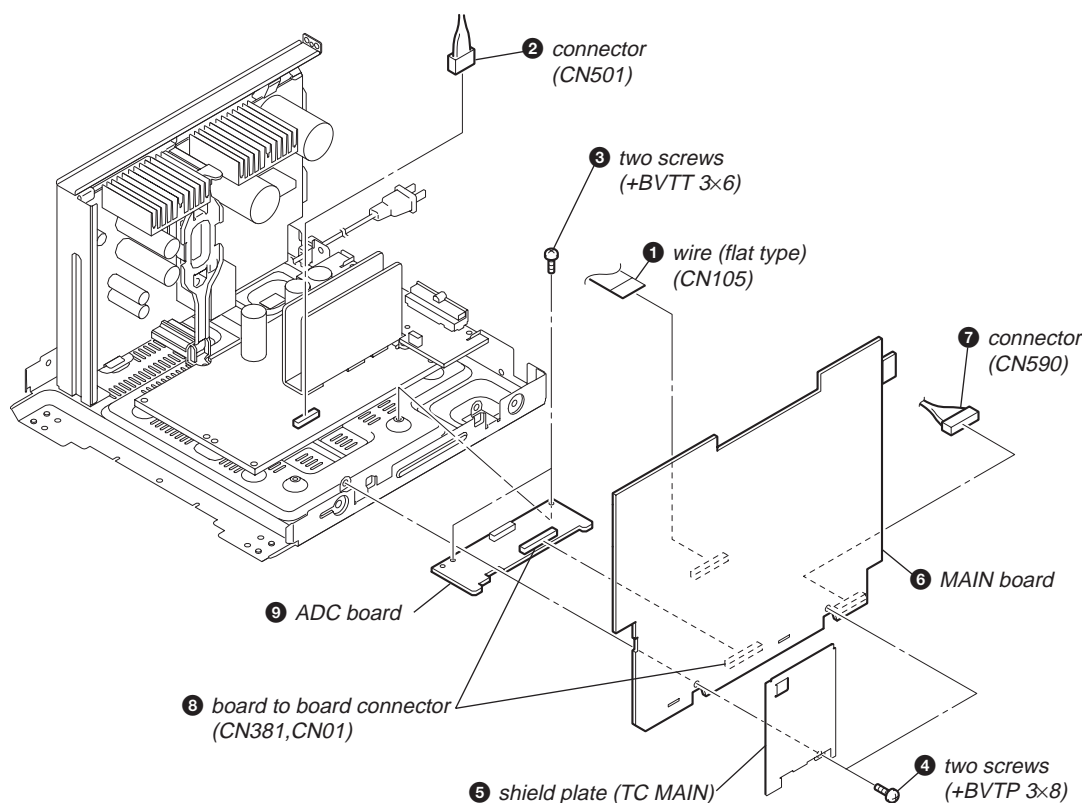
3-8. CD MECHANISM DECK



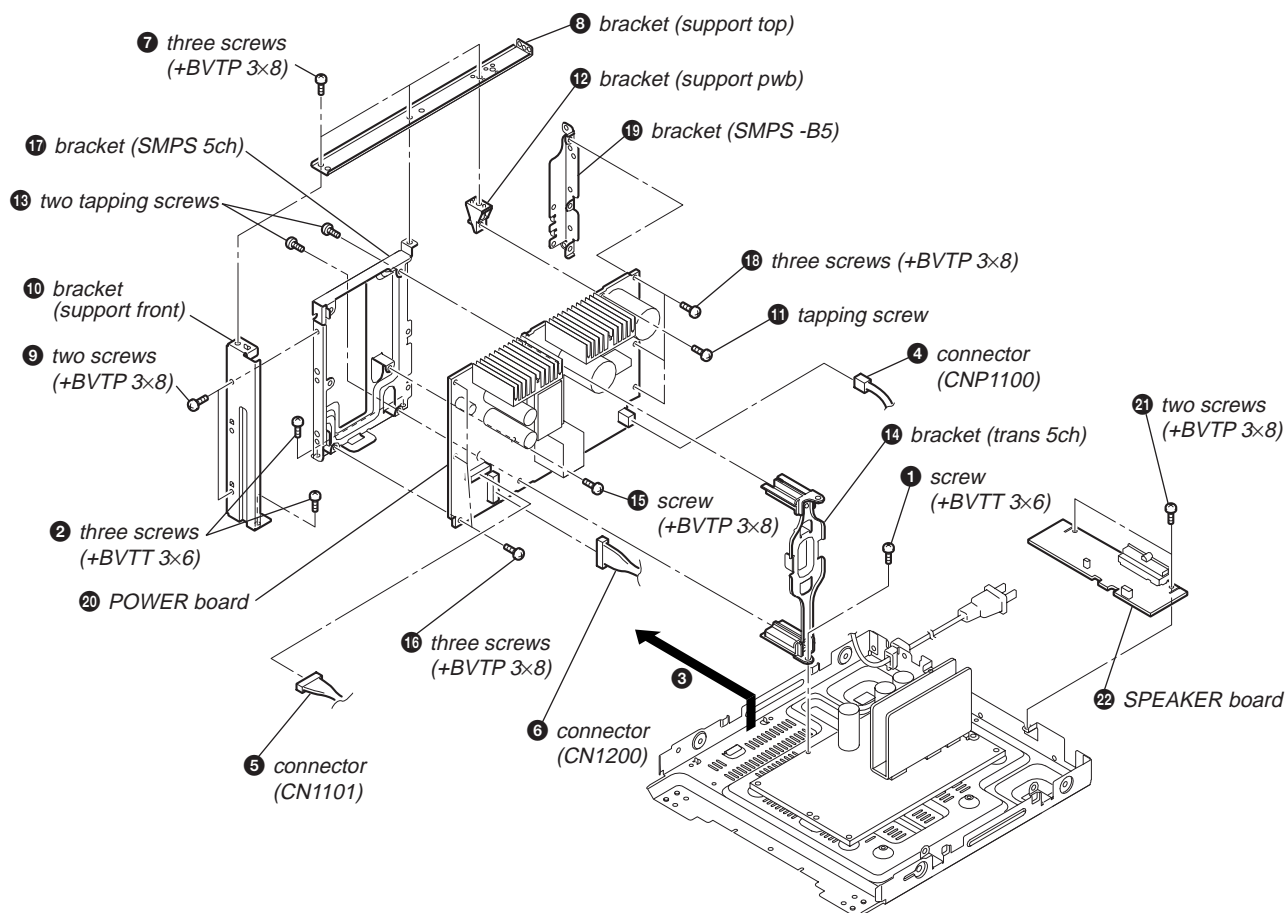
3-9. BACK PANEL, DC FAN (M891)



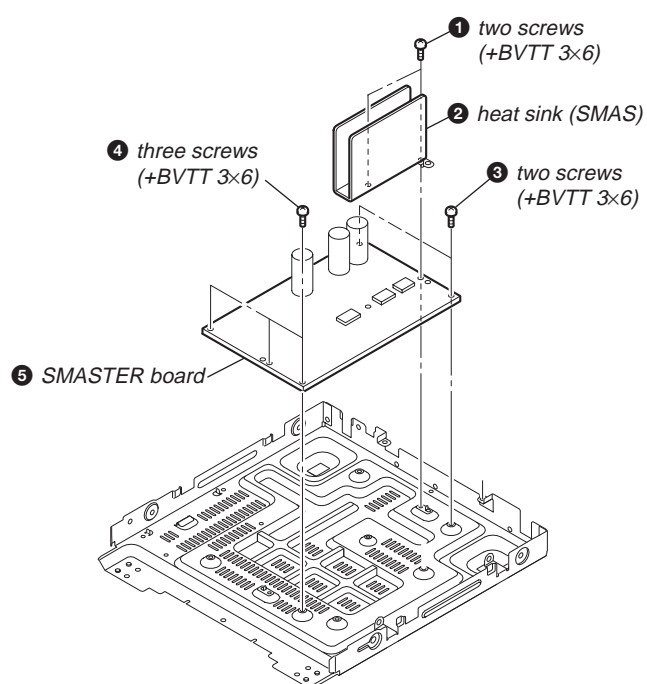
3-10. MAIN BOARD, ADC BOARD



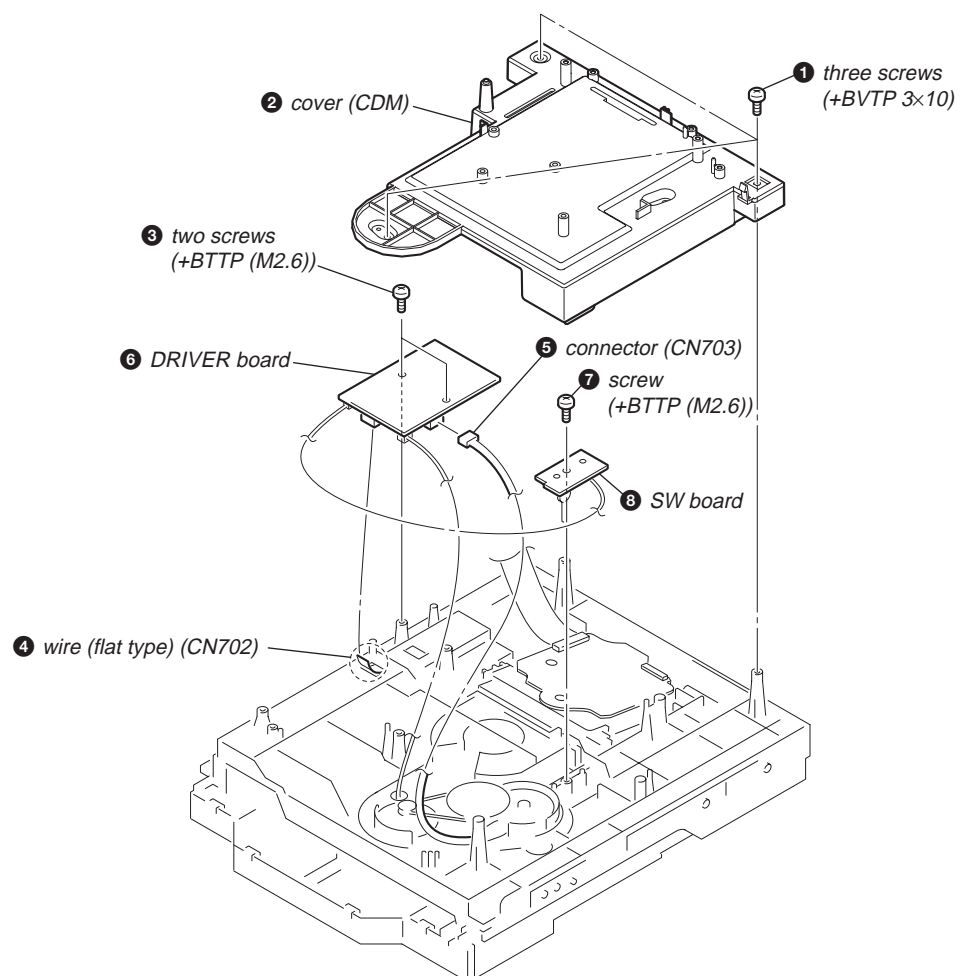
3-11. POWER BOARD, SPEAKER BOARD



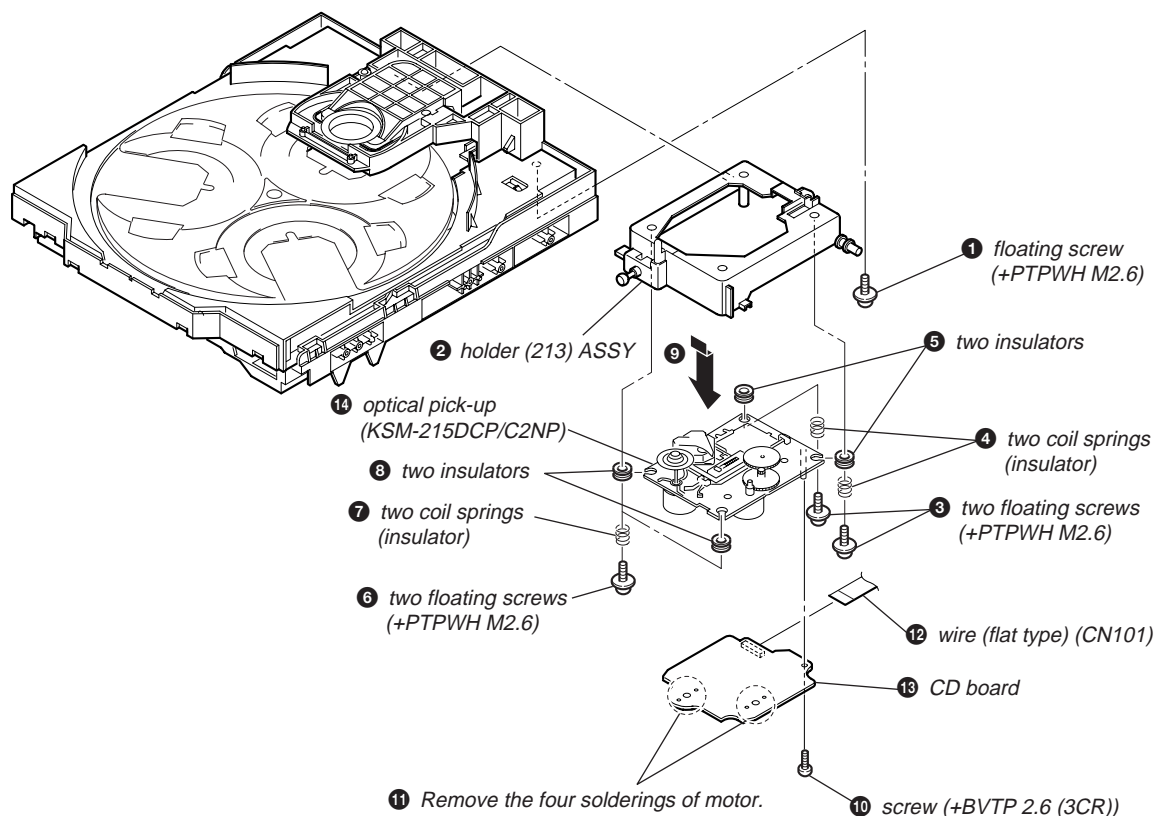
3-12. SMASTER BOARD



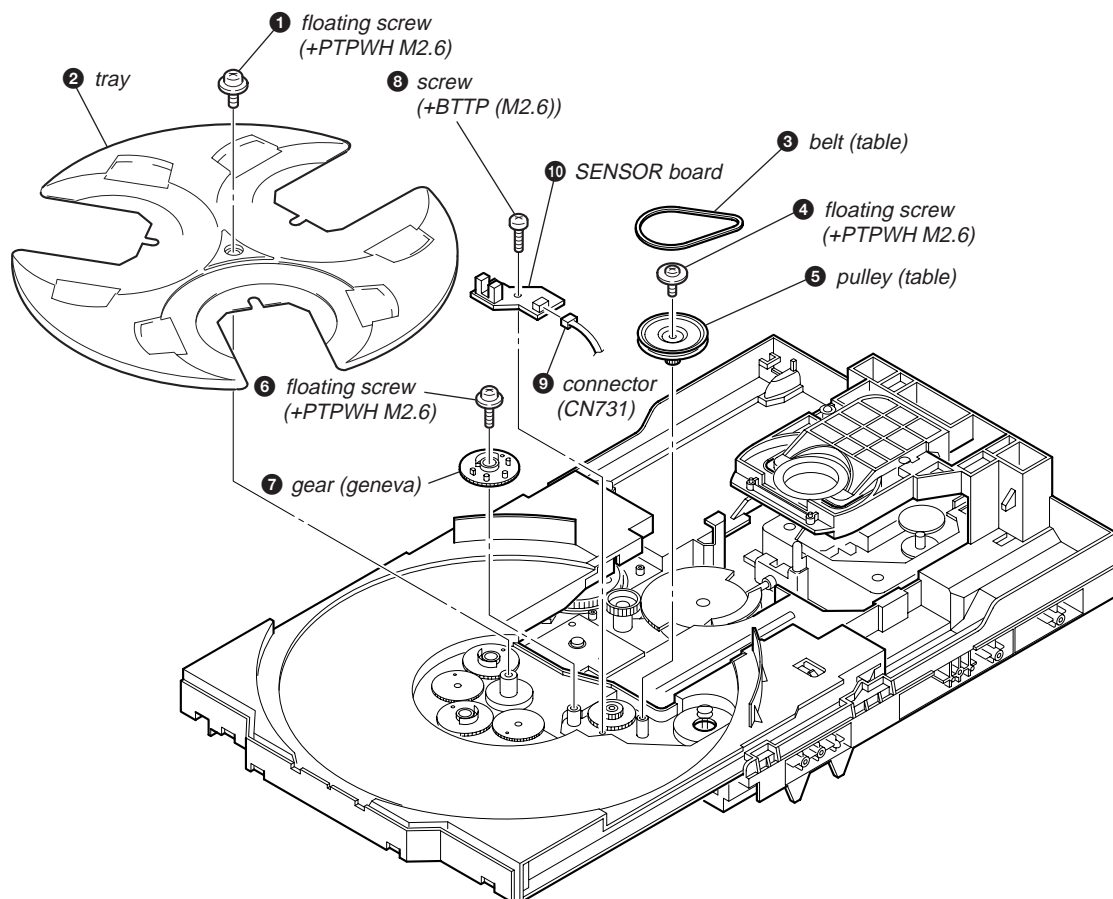
3-13. DRIVER BOARD, SW BOARD



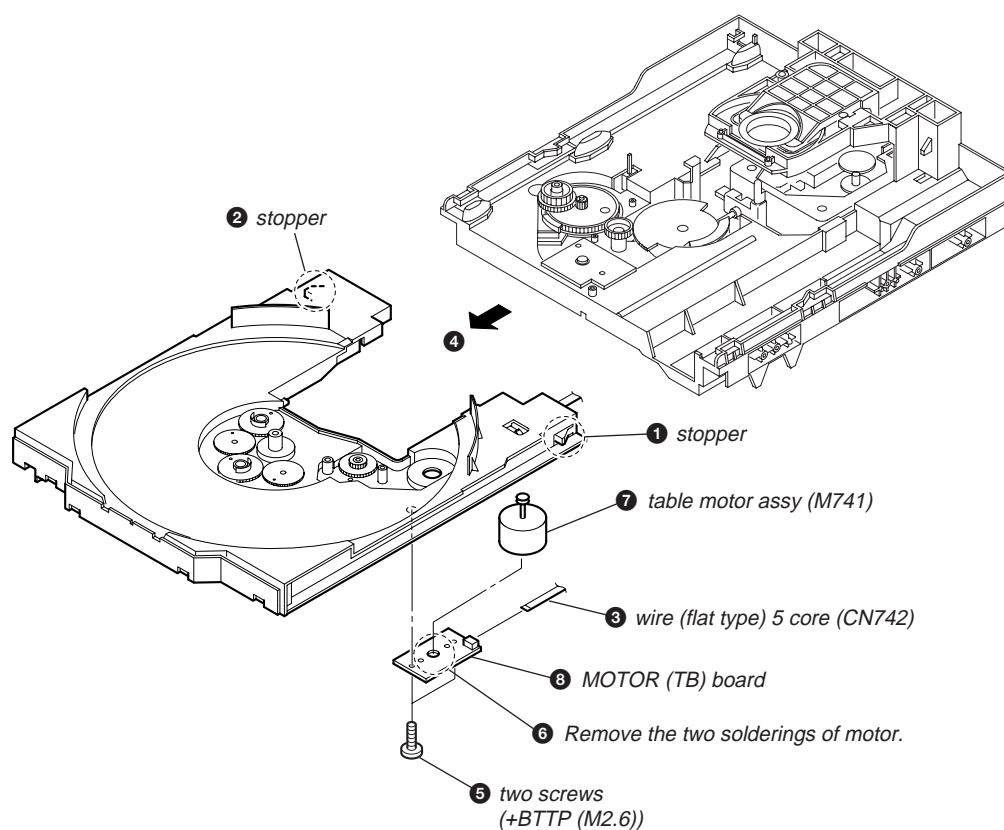
3-14. CD BOARD, OPTICAL PICK-UP



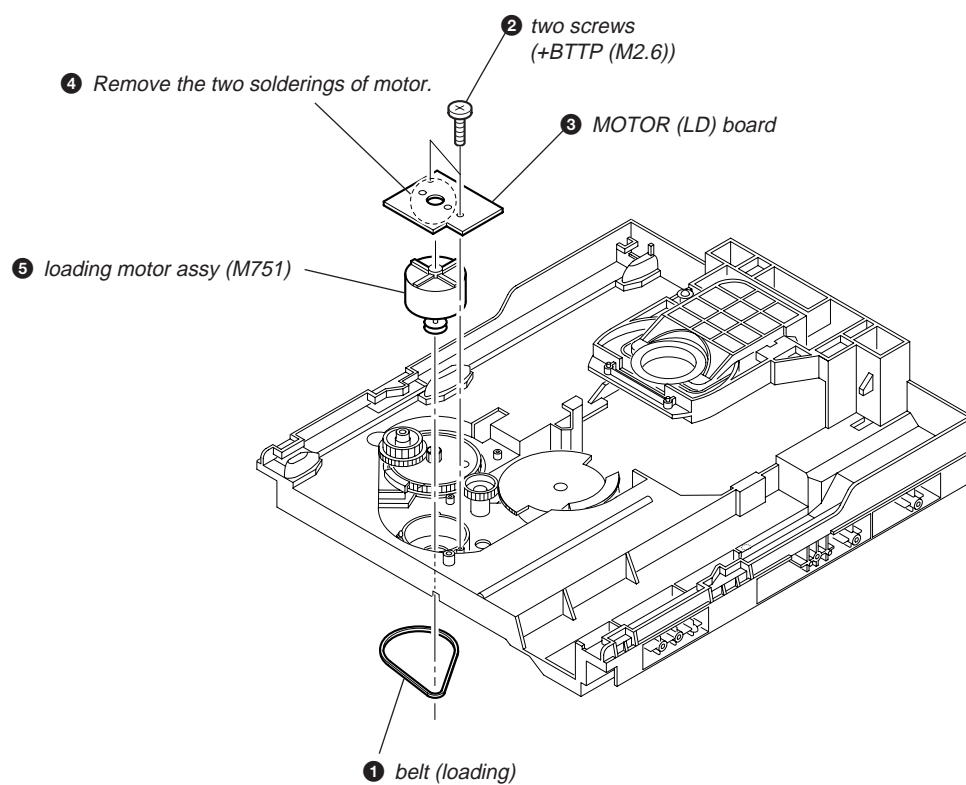
3-15. SENSOR BOARD



3-16. MOTOR (TB) BOARD



3-17. MOTOR (LD) BOARD



SECTION 4 TEST MODE

[PANEL TEST MODE]

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

Procedure:

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

[COMMON TEST MODE]

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

Procedure:

* To enter Common Test Mode

- Press button, **[ILLUMINATION]** button and **[DISC 3]** button simultaneously.
- The CD ring indicators and line below CD ring indicator flash synchronously on the fluorescent indicator tube. The function is changed to TV.

* Check of Amplifier

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

* Tape function

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

* To release from Common Test mode.

- To release this mode, press button.
- The cold reset is enforced at the same time.

[COLD RESET]

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



Procedure:

- Press button to turn on the set.
- Press button, **[ILLUMINATION/SUB WOOFER LEVEL]** button, and button simultaneously.
- The message "COLD RESET" appears on the fluorescent indicator tube. then, the fluorescent indicator tube becomes blank for a while, and the set is reset.

[VACS ON/OFF]

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




Procedure:

- Press  button to turn on the set.
- Press  button and **[DIRECTION]** button and **[DISC 1]** button simultaneously. The message “VACS OFF” or “VACS ON” appears on the fluorescent indicator tube.

[TUNER STEP CHANGE]

- The step interval of AM channels can be toggled between 9 kHz and 10 kHz.






Procedure:

- Press  button to turn on the set.
- Press **[TUNER/BAND]** button repeatedly to select the “AM”.
- Press  button to turn off the set.
- Press **[ILLUMINATION/SUB WOOFER LEVEL]** button and  button simultaneously. The system will turn on automatically. The message “AM 9K STEP” or “AM 10K STEP” appears on the fluorescent indicator tube and thus the channel step is changed.

[CD SERVICE MODE]

- This mode let you move the CD sled motor freely. Use this mode when you want to clean the optical pick-up.

Procedure:




- Press  button to turn on the set.
- Select CD function.
- Press  button, **[ILLUMINATION/SUB WOOFER LEVEL]** button and **[OPEN/CLOSE]** button simultaneously.
- The CD service mode is activated. The message “SERVICE MODE” appears on the fluorescent indicator tube.
- With the CD in stop status, press  button to move the optical pick-up to outside track, or press  button to move to inside track. The message “SLED OUT” or “SLED IN” appears on the fluorescent indicator tube.
- To turn on or off the laser, press **[GROOVE]** button. The message “LD ON” or “LD OFF” appears on the fluorescent indicator tube.
- To release from this mode, press  button.

[CD AGING MODE]

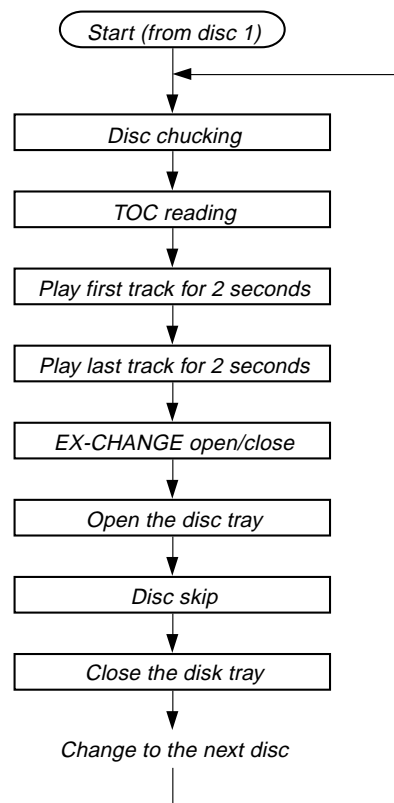
This mode can be used for operation check of CD section.

- If an error occurs, the aging operation would stops and the status is displayed.
- If there were no error occurs, the aging operation would continue repeatedly.

Procedure:

- Press  button to turn on the set.
- Select CD function.
- Load three discs on the disc tray.
- Press **[PLAY MODE]** button on the remote repeatedly to select the “ALL DISCS” mode, and press the **[REPEAT]** button on the remote repeatedly to select “REPEAT OFF” mode.
- Press  button, **[ILLUMINATION/SUB WOOFER LEVEL]** button, and **[DISC SKIP/EX-CHANGE]** button simultaneously. The CD ring indicator and line below CD ring indicator turn on alternately to indicate aging mode.
- Aging operation is started.
- To release from this mode, press  button or disconnect the power plug.

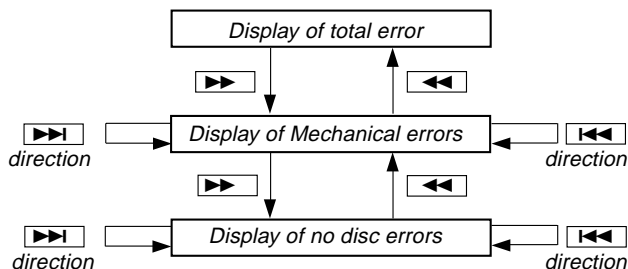
Aging mode sequence:



• Display when an error occurred (CD Error Code Mode)

Procedure:

1. Press button, button and button simultaneously to enter the error code display mode.
2. The fluorescent indicator tube displays the number of total error.
3. Each time or button is pressed, display change as below.



4. To clear the error record, operate the cold reset. (Refer to the “COLD RESET”)
5. To release from this mode, press the button or disconnect the power plug.

- 1) Display of total error
Display

EM**ED**

EM**: The number of mechanical errors.

ED**: The number of no disc errors after chucking the disc.

- 2) Display of mechanical errors
Display

M*\$\$%:~&&##00

M*: The number of mechanical error (“00” is latest one)

(Rotate knob in the direction of either to display next error)

\$\$: Not used

%: Loading related error (Second figure is not used)

D: Stop by the problem other than mechanical problem while closing.

E: Stop by the problem other than mechanical problem while opening.

C: Stop by the problem other than mechanical problem while chucking up.

F: Stop by the problem other than mechanical problem while chucking down.

&&: Emerging error

01: Stop while chucking up.

02: Stop while chucking up.

03: Time-out of EX-CHANGE open.

05: Time-out of EX-CHANGE close.

##: Not used

- 3) Display of no disc errors
Display

D*\$\$%:~&&##00

D*: The number of no disc error (“00” is latest one)

(Rotate knob in the direction of either to display next error)

\$\$: Error type

01: Focus error

02: GFS error

03: Setup error

%: Not used

&&:

00: No disc judgment without chucking retry.

01: No disc judgment after chucking retry.

##: The state when judged as no disc

01: Stop

02: Setup

03: TOC reading

04: Access

05: Playback

06: Pause

07: Manual search (Play)

08: Manual search (Pause)

[CD REPEAT 5 LIMIT OFF MODE]

- The number of repeat for CD playback is 5 times when the repeat mode is “REPEAT ALL”. This mode enables CD to repeat playback for limitless times.

Procedure:

1. Press button to turn on the set.
2. Select CD function.
3. Press button, button and button simultaneously to enter the CD repeat 5 limit off mode and the fluorescent indicator tube displays “LIMIT OFF”.
4. To release from this mode, operate the cold reset. (Refer to the “COLD RESET”)

[CD SHIP MODE (WITH MEMORY CLEAR)]

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




Procedure:

1. Press button to turn on the set.
2. Select CD function.
3. Press button, button and button simultaneously. The set will turn off automatically.
4. After the “STANDBY” blinking display finishes, a message “MECHA LOCK” is displayed on the fluorescent indicator tube and the CD ship mode is set.

[CD SHIP MODE (WITHOUT MEMORY CLEAR)]

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





Procedure:

1. Press  button to turn on the set.
2. Select CD function.
3. Press  button and  button simultaneously. The set will turn off automatically.
4. After the "STANDBY" blinking display finishes, a message "MECHA LOCK" is displayed on the fluorescent indicator tube and the CD ship mode is set.


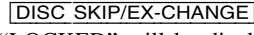
[CD POWER MANAGE]

- This mode let you switch on or off power supply to the BU during TUNER function.
- When CD POWER is set to OFF, the power supply to the BU is cut off during TUNER function. It will increase the time taken to access CD when function change from TUNER to CD but it will improve tuner reception.
- When CD POWER is set to ON, the power supply to the BU is not cut off during TUNER function. It will reduce the time taken to access CD when function change from TUNER to CD but it will decrease tuner reception performance.




Procedure:

1. Press  button to turn on the set.
2. Select CD function.
3. Press  button to turn off the set.
4. Press  button and  button simultaneously. The set will turn on automatically.
5. The message "CD POWER ON" or "CD POWER OFF" will be displayed on the fluorescent indicator tube.

[CD TRAY LOCK MODE]

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




Procedure:

1. Press  button to turn on the set.
2. Select CD function.
3. Press  button and  OPEN/CLOSE button simultaneously and hold down until "LOCKED" or "UNLOCKED" displayed on the fluorescent indicator tube (around 5 seconds).

[TCM OFFLINE MODE]

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

Procedure:

1. When the set is turned off, press  EQ BAND/MEMORY button,  TAPE A/B button and  button simultaneously. The set will turn on automatically.
2. The message "TCM OFFLINE" will be displayed on the fluorescent indicator tube.

SECTION 5
MECHANICAL ADJUSTMENTS

Precaution

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

Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102C	2.9 mN • m to 6.9 mN • m 30 to 70 g • cm (0.42 – 0.97 oz • inch)
FWD back tension	CQ-102C	0.15 mN • m to 0.59 mN • m 1.6 to 6 g • cm (0.022 – 0.08 oz • inch)
FF/REW	CQ-201B	4.8 mN • m to 16.7 mN • m 49 to 170 g • cm (0.69 – 2.36 oz • inch)

SECTION 6
ELECTRICAL ADJUSTMENTS

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-A100	10 kHz, -10 dB	Azimuth Adjustment

RECORD/PLAYBACK HEAD AZIMUTH ADJUSTMENT

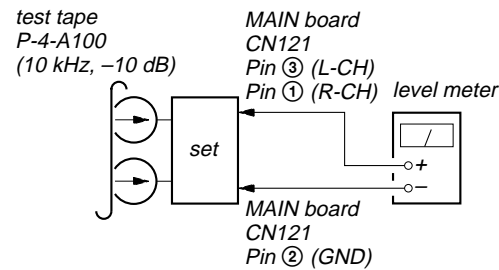
DECK A

DECK B

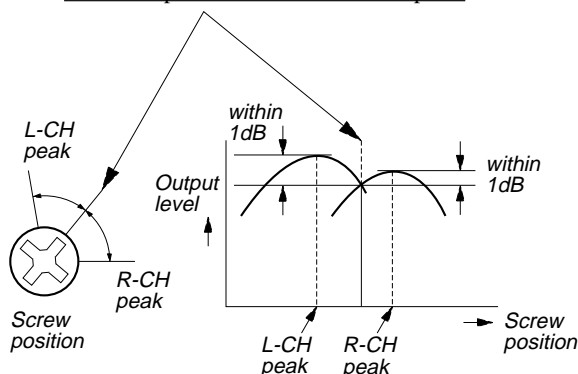
Note: Perform this adjustments for both decks

Procedure:

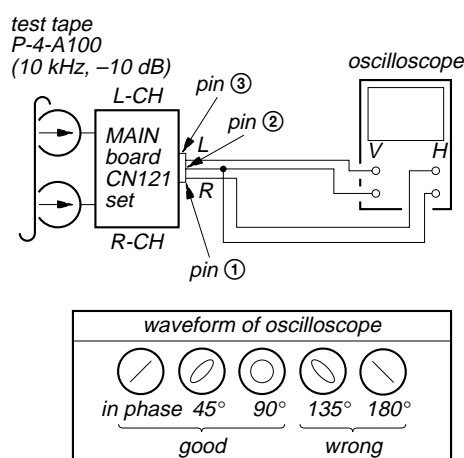
- 1. Mode: Playback



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

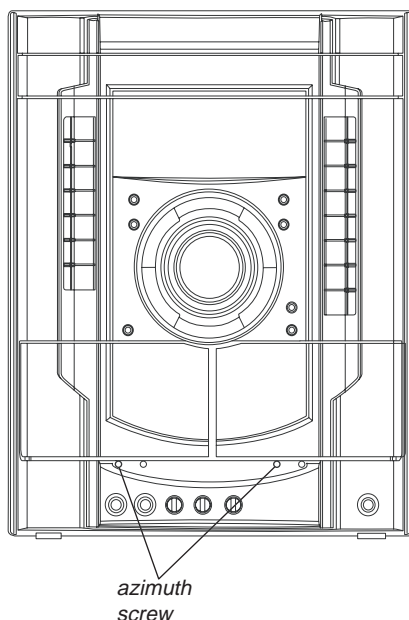


- Mode: Playback



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

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



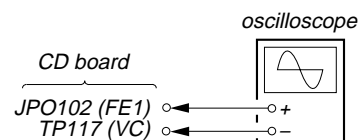
CD SECTION

Note:

- CD Block is basically designed to operate without adjustment. Therefore, check each item in order given.
- Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
- Use an oscilloscope with more than 10MΩ impedance.
- Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

S-curve Check

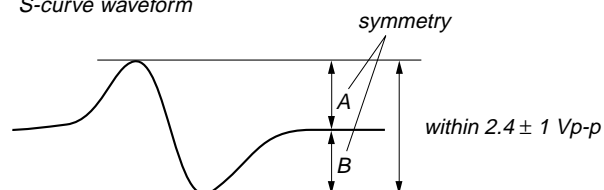
Connection:



Procedure:

- Connect an oscilloscope to test point JPO102 (FE1) and TP117(VC) on the CD board.
- Turn the power on.
- Put the disc (YEDS-18) in and turned power switch on again and actuate the focus search. (actuate the focus search when disc table is moving in and out)
- Check the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 2.4 ± 1 Vp-p.

S-curve waveform



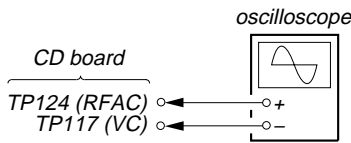
Note:

- Try to measure several times to make sure than the ratio of A : B or B : A is more than 10 : 7.
- Take sweep time as long as possible and light up the brightness to obtain best waveform.

Checking Location: CD board (SIDE B)
(See page 23.)

RFAC Level Check

Connection:

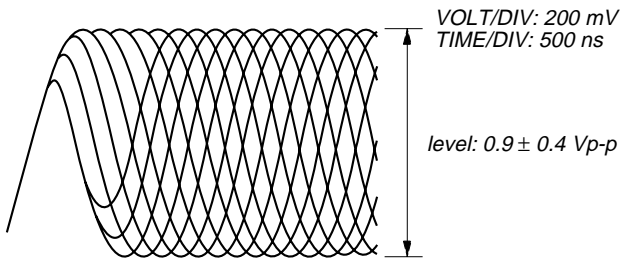


Procedure:

1. Connect an oscilloscope to test point TP124 (RFAC) and TP 117(VC) on the CD board.
2. Turn the power on.
3. Put the disc (YEDS-18) in to playback the number five track.
4. Confirm that oscilloscope waveform is clear and check RFAC signal level is correct or not.

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

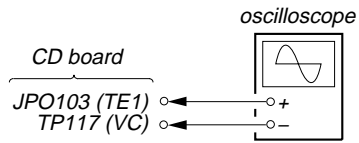
RFAC signal waveform



Checking Location: CD board (SIDE B)
(See page 23.)

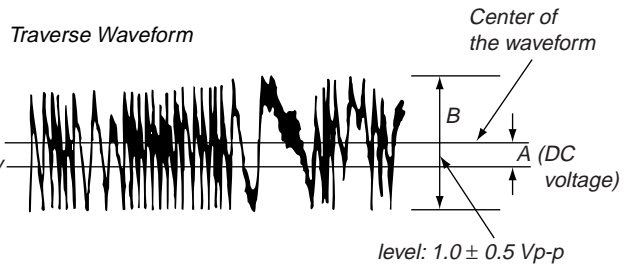
E-F Balance Check

Connection:



Procedure:

1. Connect an oscilloscope to test point TPO103 (TE1) and TP117 (VC) on the CD board.
2. Turn the power on.
3. Select the function “CD”.
4. Press three buttons of [ENTER], [▶▶], and [SURROUND MODE] simultaneously to set the CD service mode.
5. Put the disc (YEDS-18) in to playback the number five track.
6. Press the [◀◀] button. The message “TRAVERSE” is displayed. (The tracking servo and the sledding servo are turned OFF)
7. Check the level B of the oscilloscope's waveform and the A (DC voltage) of the center of the Traverse waveform. Confirm the following :
 $A/B \times 100 = \text{less than } \pm 22\%$

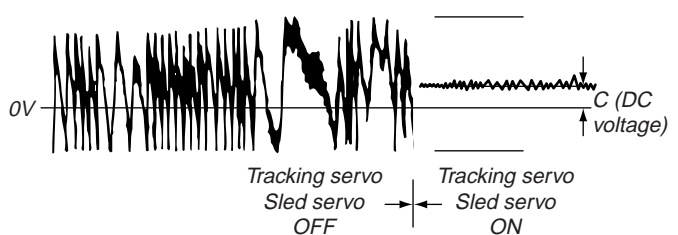


8. Press the [◀◀] button. The message “TRAVERSE” is displayed. (The tracking servo and sledding servo are turned ON)
Confirm the C (DC voltage) is almost equal to the A (DC voltage) is step 5.
9. To exit from this mode, perform as follows.
 - 1) Move the optical pick-up to the most inside track.
 - 2) Press three buttons of [■], [CLEAR], and [DISPLAY] simultaneously. (cold reset)

Notes:

- Always move the optical pick-up to most inside track when exiting from this mode. Otherwise, a disc will not be unloaded.
- Do not run the sled motor excessively, otherwise the gear can be chipped.

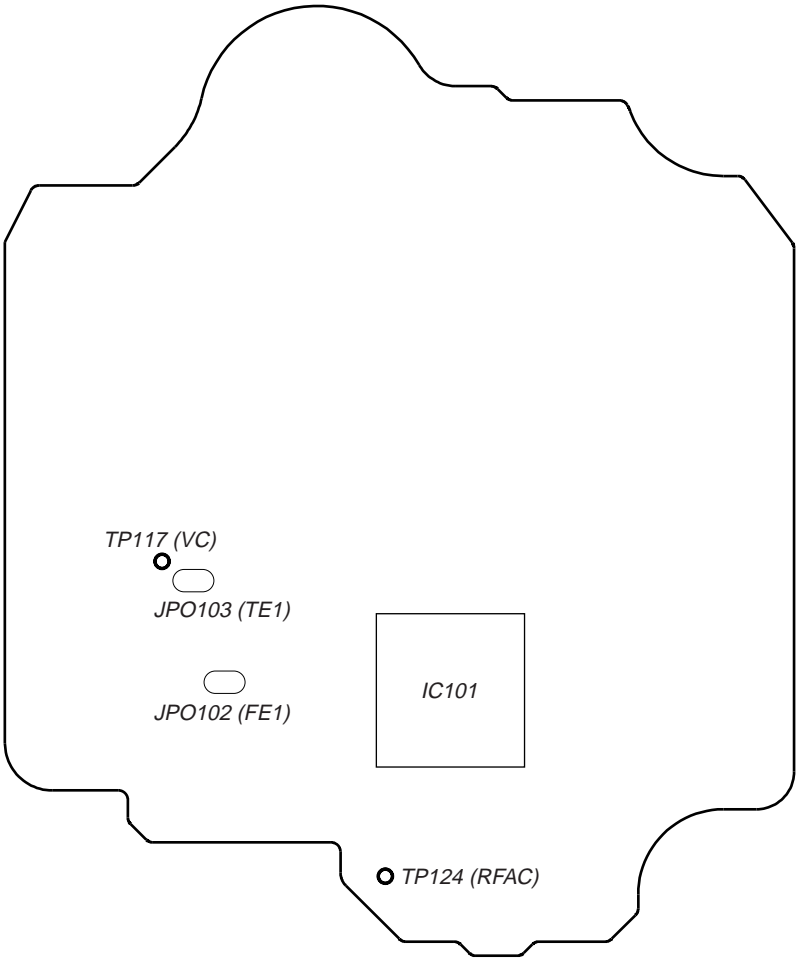
Traverse Waveform



Checking Location: CD board (SIDE B) (See page 23.)

Checking Location:



– CD BOARD (SIDE B) –














SECTION 7 DIAGRAMS

For schematic diagrams.

Note:



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

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

-  : panel designation.
-  : B+ Line.
-  : B- Line.
-  : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
CD board
no mark: CD PLAY
Other boards
no mark: TUNER (FM/AM)
() : CD PLAY
< > : TAPE PLAY
[] : TAPE REC
* : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 M Ω).
Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
Voltage variations may be noted due to normal production tolerances.
- Signal path.
 : AUDIO
 : TUNER (FM/AM)
 : TAPE PLAY (DECK A)
 : TAPE PLAY (DECK B)
 : RECORD
 : CD PLAY
 : MIC INPUT
- Abbreviation
AR : Argentina model
AUS : Australian model
E2 : 120V AC Area in E model
E3 : 240V AC Area in E model
E51 : Chilean and Peruvian model

Note on Printed Wiring Boards:

Note:

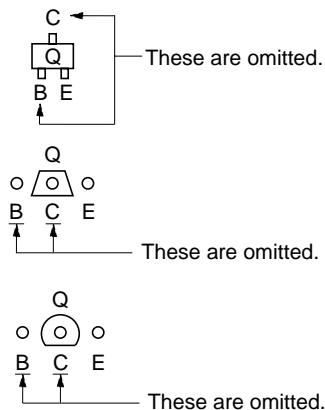
-  : parts extracted from the component side.
-  : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:

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

- Indication of transistor.



• WAVEFORMS

– CD BOARD –

① IC101 ② TEI



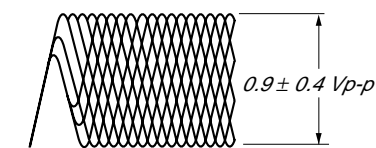
0.2V/DIV, 0.2 msec/DIV

② IC101 ③ FEI



0.1V/DIV, 1 msec/DIV

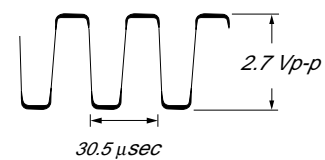
③ IC101 ④ RFAC



0.2V/DIV, 0.5 μsec/DIV

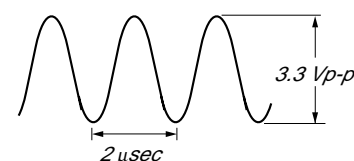
– MAIN BOARD –

① IC401 ⑪ XC-OUT



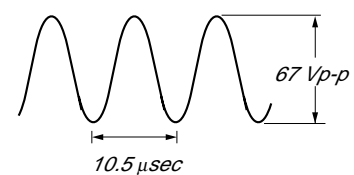
1V/DIV, 10 μsec/DIV

② IC401 ⑬ X-OUT



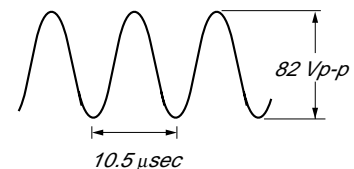
1V/DIV, 1 μsec/DIV

③ T101 ⑤ TAPE REC only



50V/DIV, 10 μsec/DIV

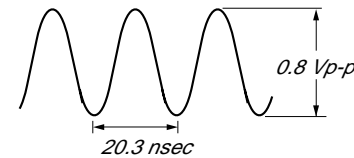
④ T101 ④ TAPE REC only



50V/DIV, 10 μsec/DIV

– SMASTER BOARD –

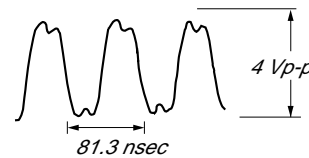
① IC800 ②



0.5V/DIV, 20 nsec/DIV

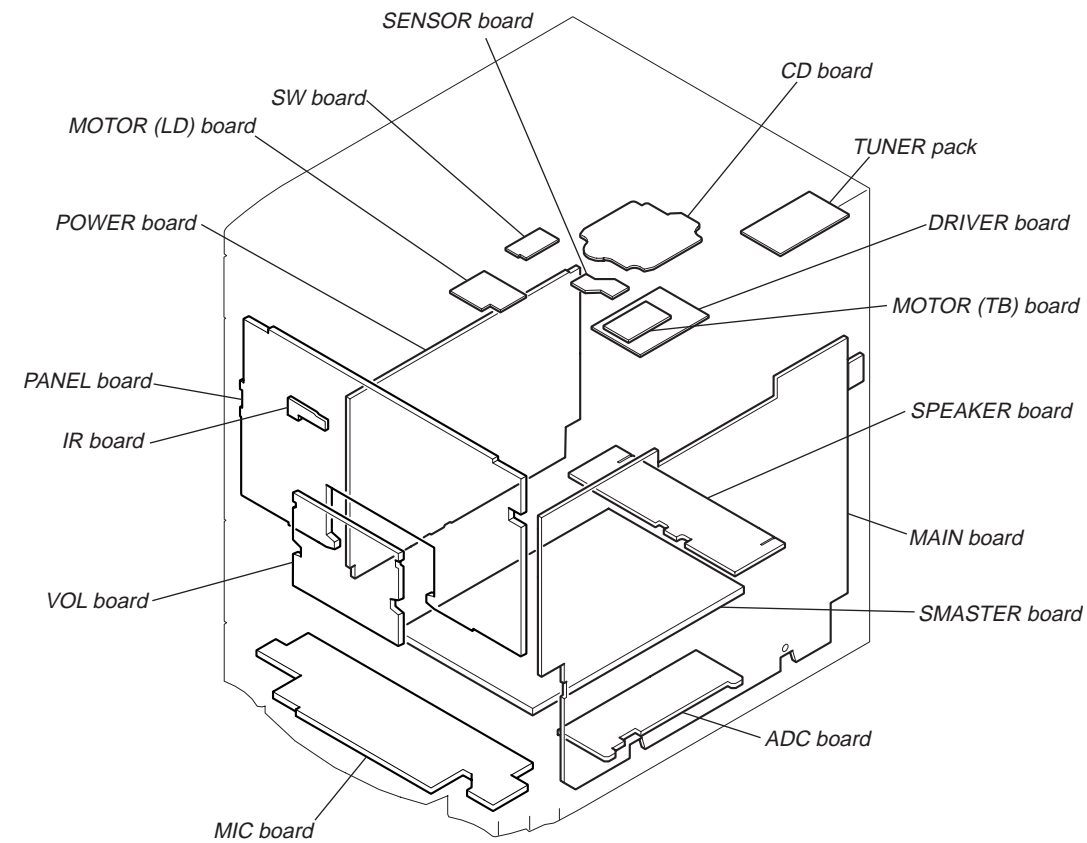
– ADC BOARD –

① IC03 ①

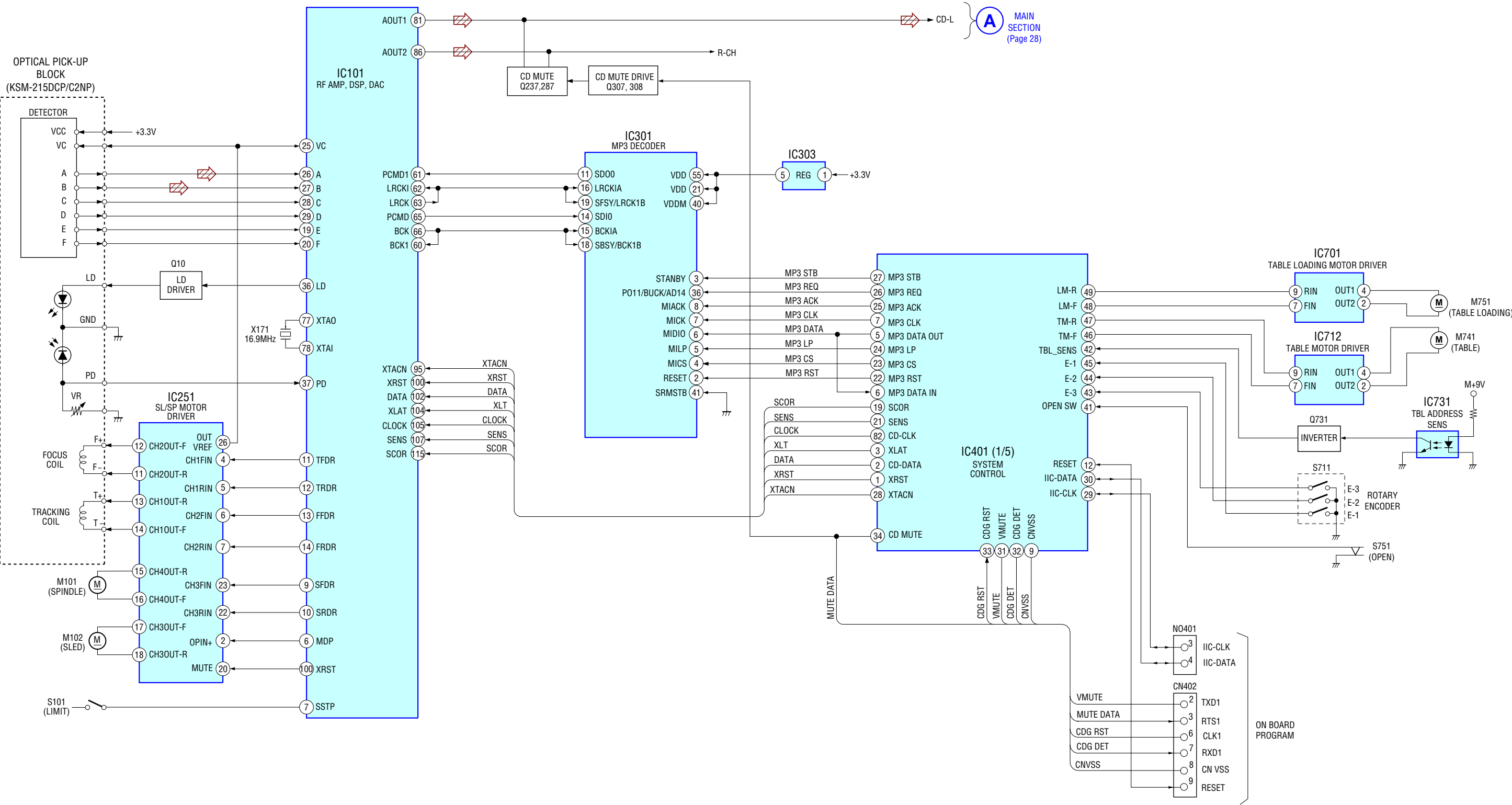


2V/DIV, 50 nsec/DIV

• CIRCUIT BOARDS LOCATION

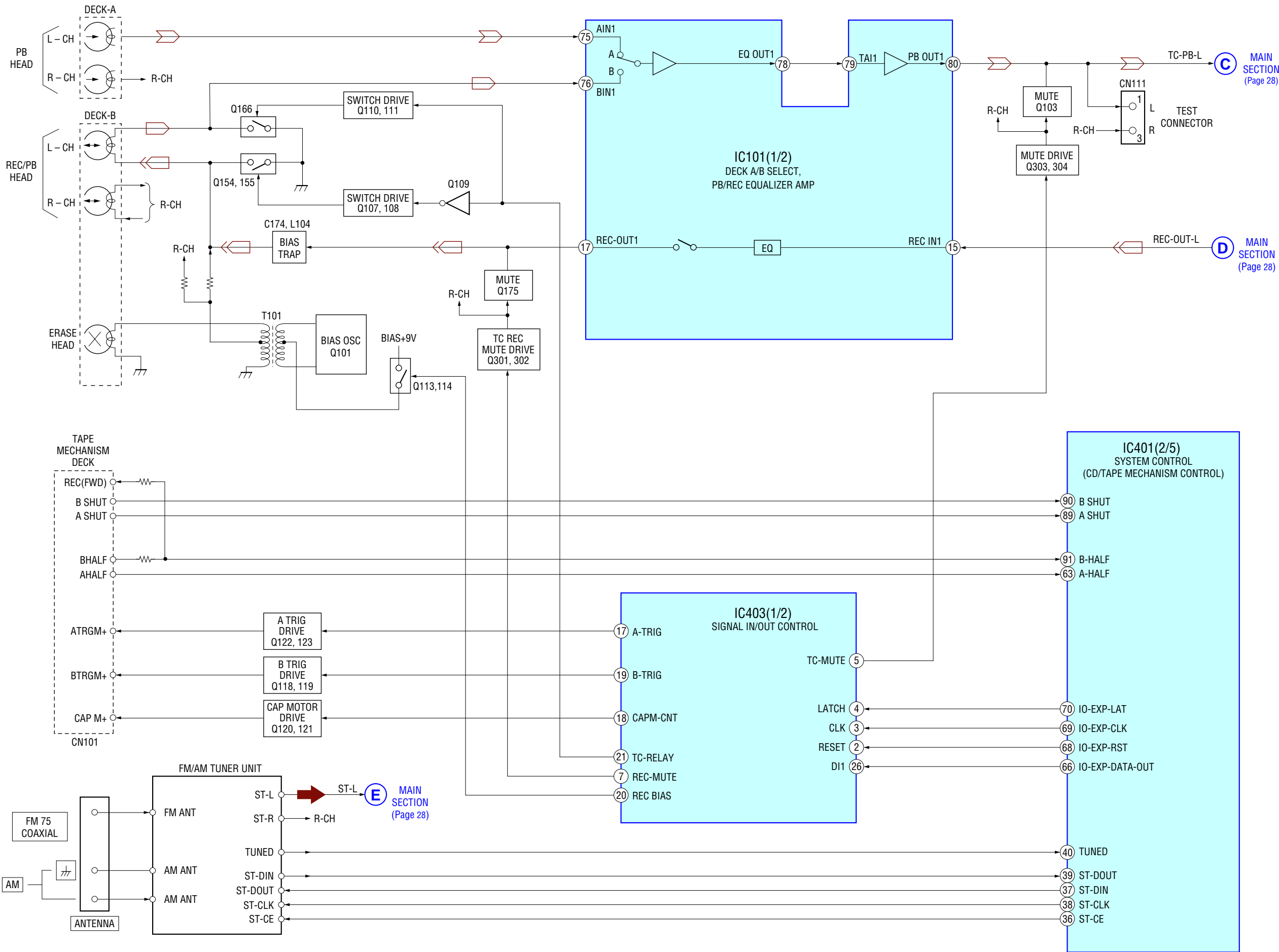


7-1. BLOCK DIAGRAM – CD SECTION –



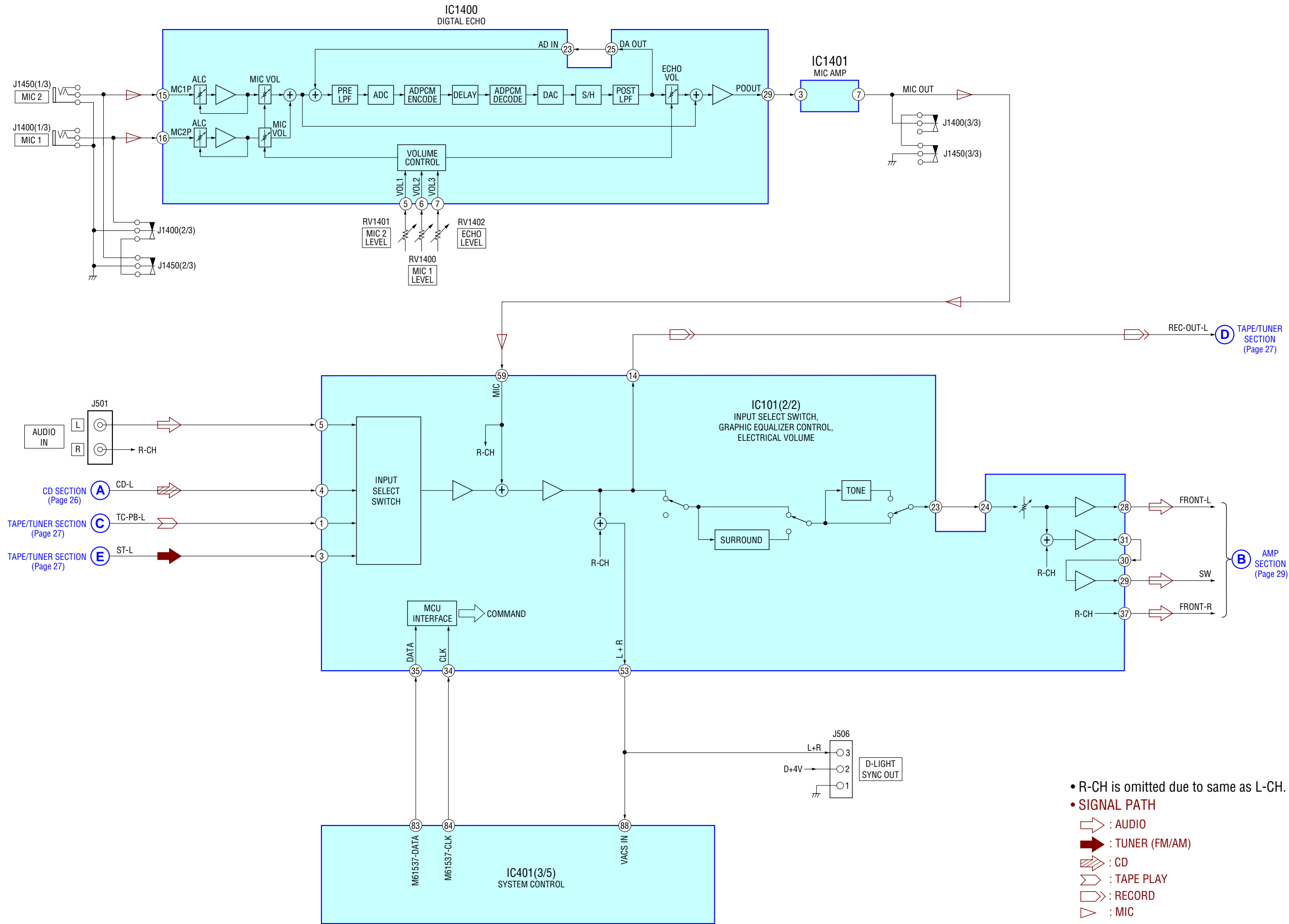
• R-CH is omitted due to same as L-CH.
• SIGNAL PATH
: CD

7-2. BLOCK DIAGRAM – TAPE/TUNER SECTION –

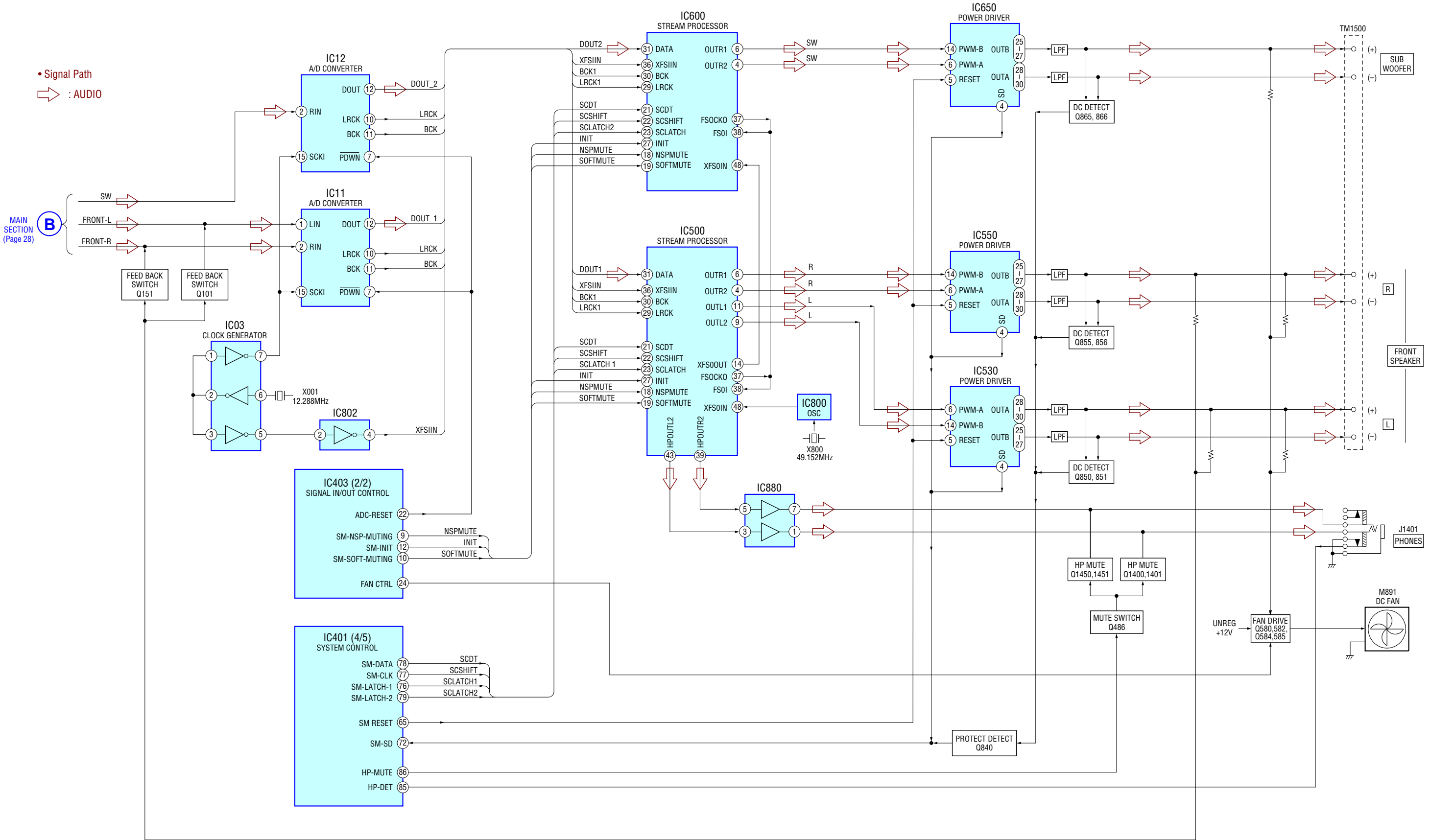


• R-CH is omitted due to same as L-CH.
• SIGNAL PATH
➡ : TUNER (FM/AM)
➡➡ : PLAYBACK (DECK A)
➡ : PLAYBACK (DECK B)
➡➡ : RECORD

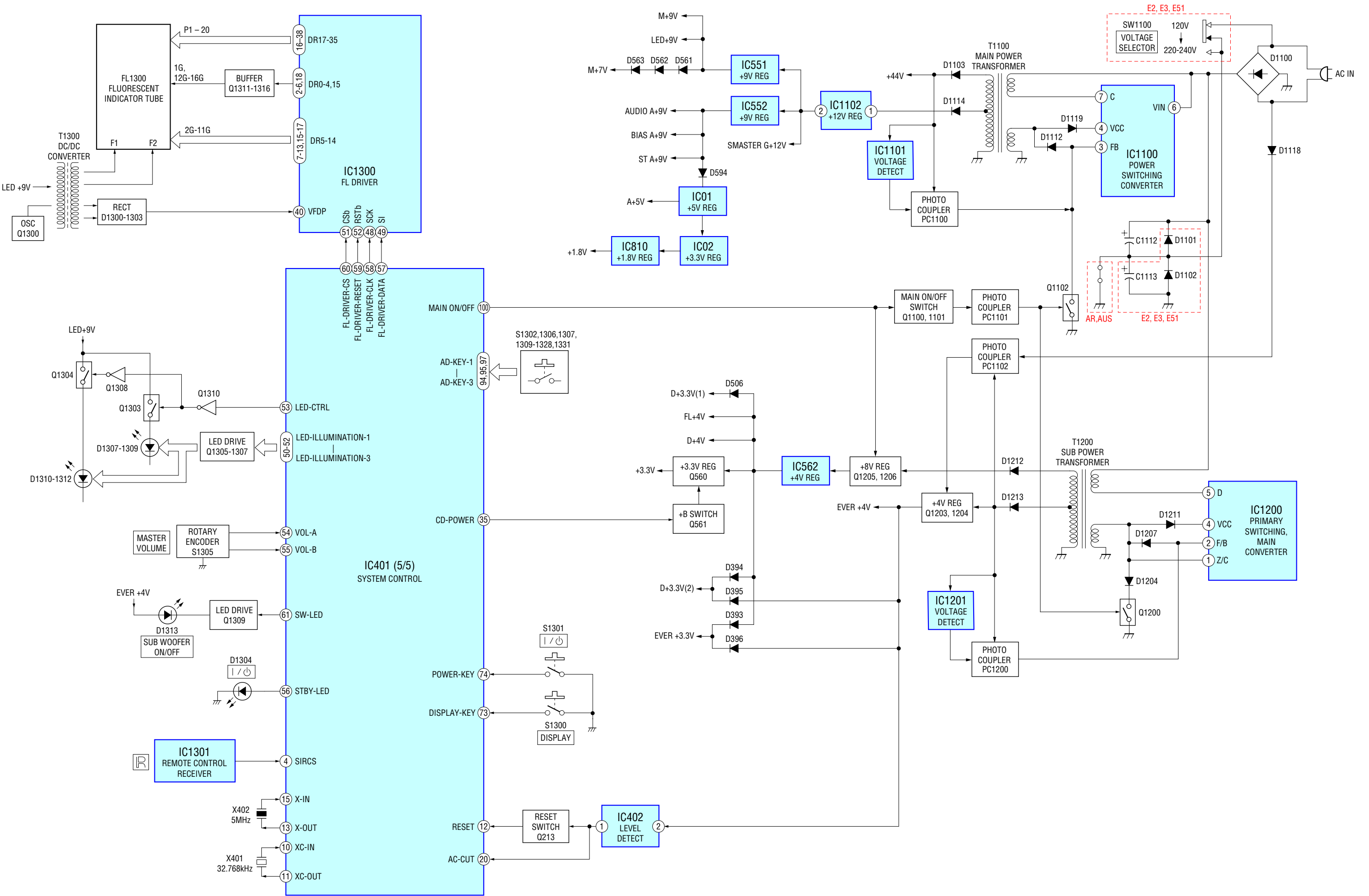
7-3. BLOCK DIAGRAM – MAIN SECTION –

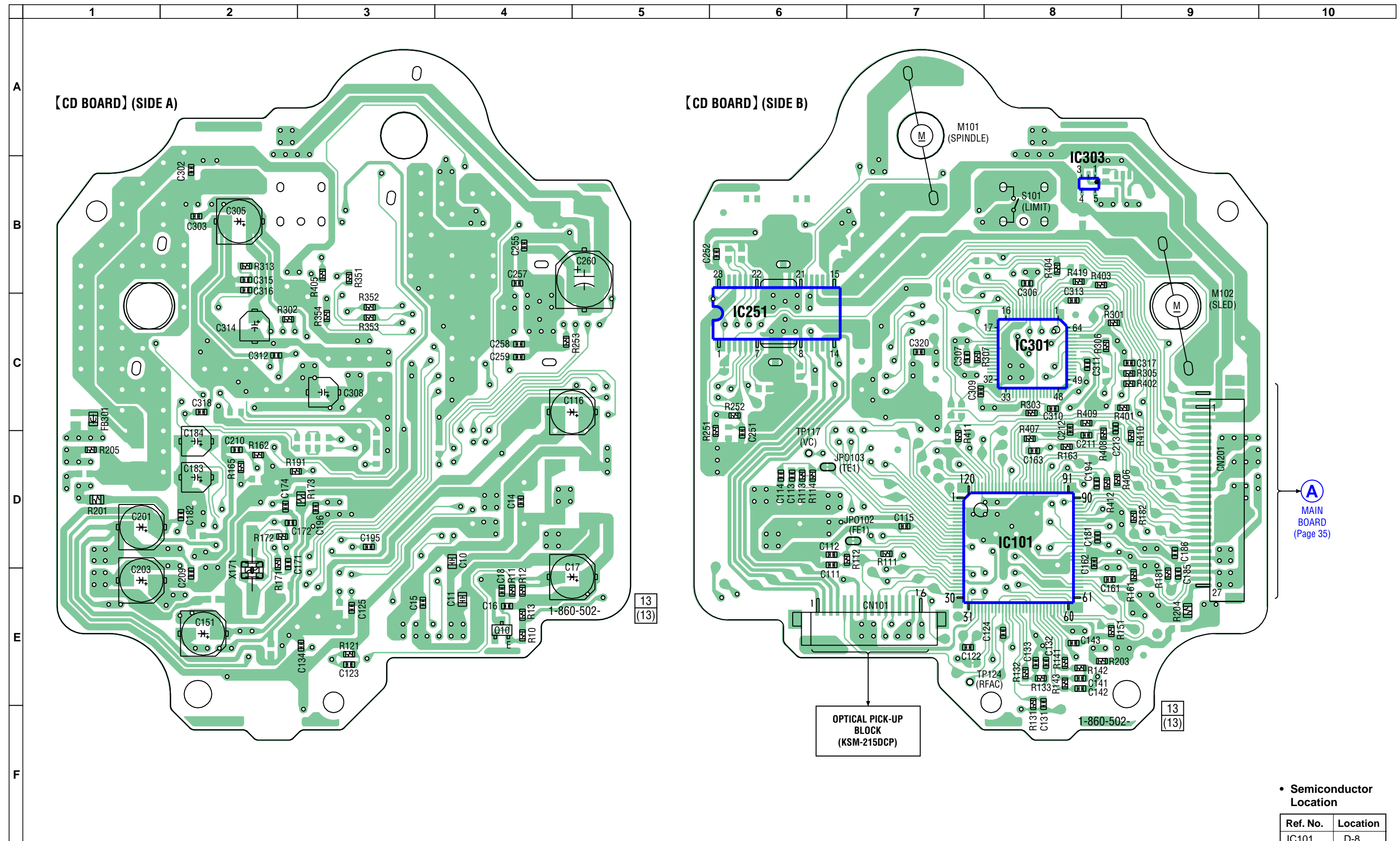


7-4. BLOCK DIAGRAM – AMP SECTION –



30 30



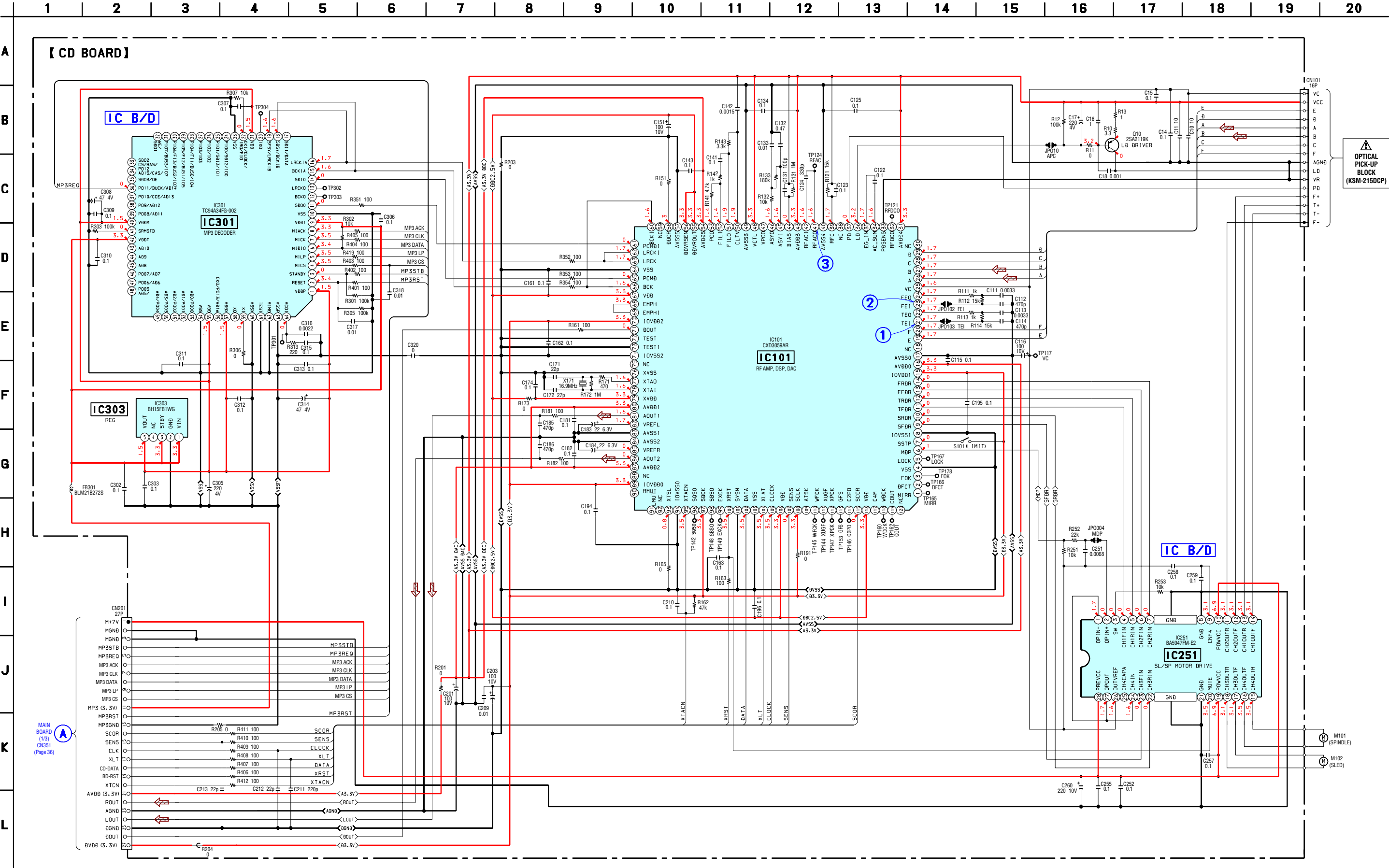


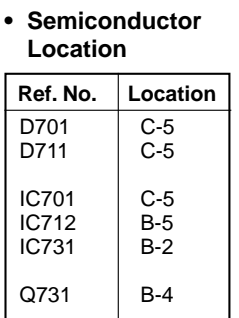
- **Semiconductor Location**

Ref. No.	Location
IC101	D-8
IC251	C-6
IC301	C-8
IC303	B-8
Q10	E-4

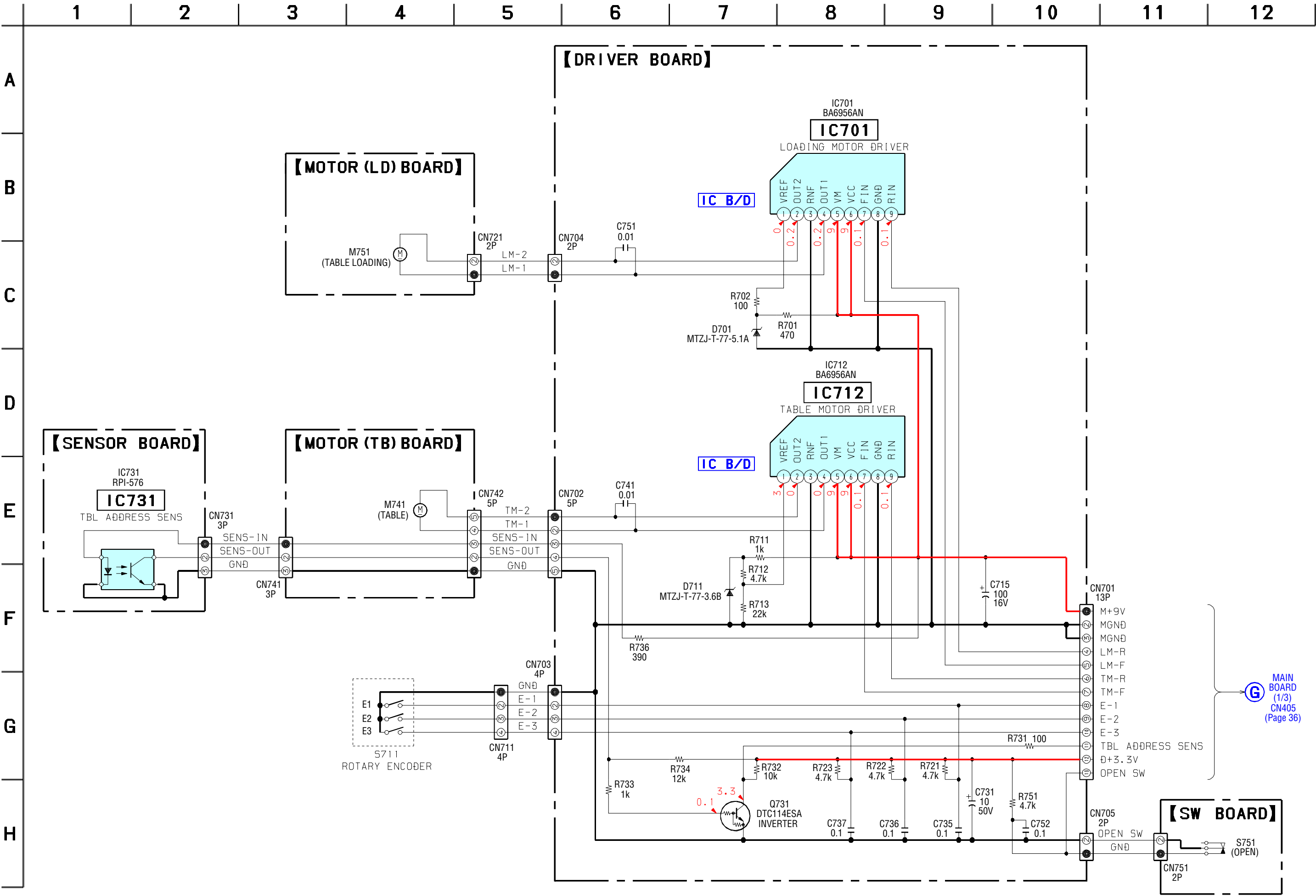
7-7. SCHEMATIC DIAGRAM – CD BOARD –

• See page 51 and 52 for IC Block Diagrams. • See page 25 for Waveforms. • See page 54 for IC Pin Function Description





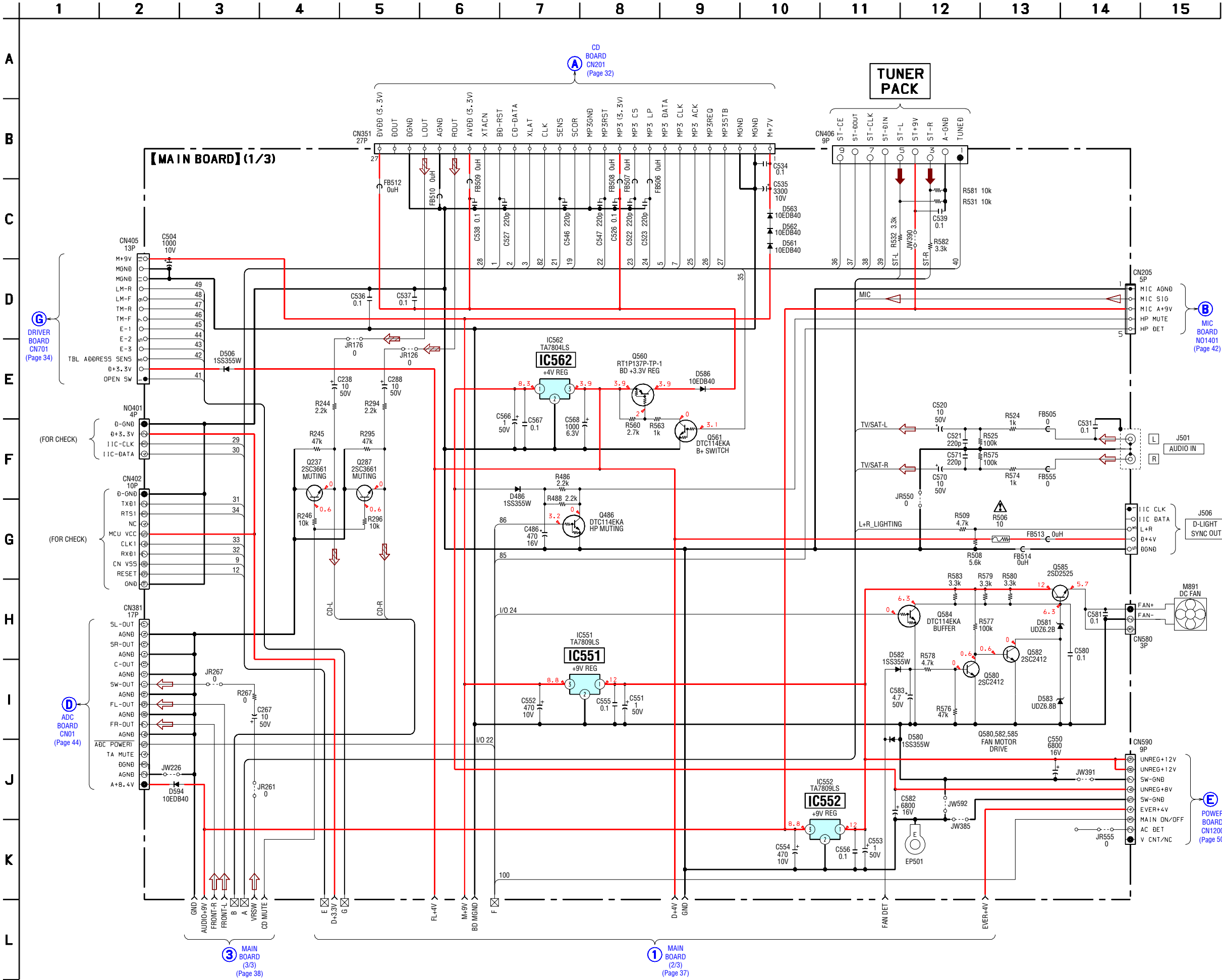
7-9. SCHEMATIC DIAGRAM – CD MECHANISM SECTION – • See page 51 for IC Block Diagrams.





Ref. No.	Location	Ref. No.	Location
D101	E-3	Q110	F-3
D102	E-2	Q111	G-3
D104	E-2	Q112	I-4
D213	C-6	Q113	I-4
D214	C-5	Q114	I-4
D215	C-6	Q118	D-2
D216	C-5	Q119	D-2
D230	D-6	Q120	D-2
D231	D-5	Q121	D-2
D232	D-6	Q122	E-3
D393	C-6	Q123	D-2
D394	B-5	Q125	I-3
D395	C-5	Q151	G-6
D396	C-6	Q153	F-5
D486	D-6	Q154	G-2
D506	B-4	Q155	H-2
D561	F-11	Q166	G-2
D562	F-11	Q175	I-3
D563	F-11	Q213	C-5
D580	G-12	Q237	G-8
D581	G-12	Q287	F-9
D582	G-11	Q301	H-4
D583	G-12	Q302	I-4
D586	C-11	Q303	H-4
D594	G-10	Q304	H-4
		Q307	H-4
IC101	G-5	Q308	I-4
IC401	C-4	Q486	D-7
IC402	C-5	Q560	C-11
IC403	E-3	Q561	D-10
IC551	G-11	Q580	G-11
IC552	G-11	Q582	G-12
IC562	D-11	Q584	G-12
		Q585	G-12
Q101	H-5		
Q103	G-3		
Q104	H-2		
Q105	H-3		
Q106	G-2		
Q107	H-3		
Q108	H-3		
Q109	H-3		

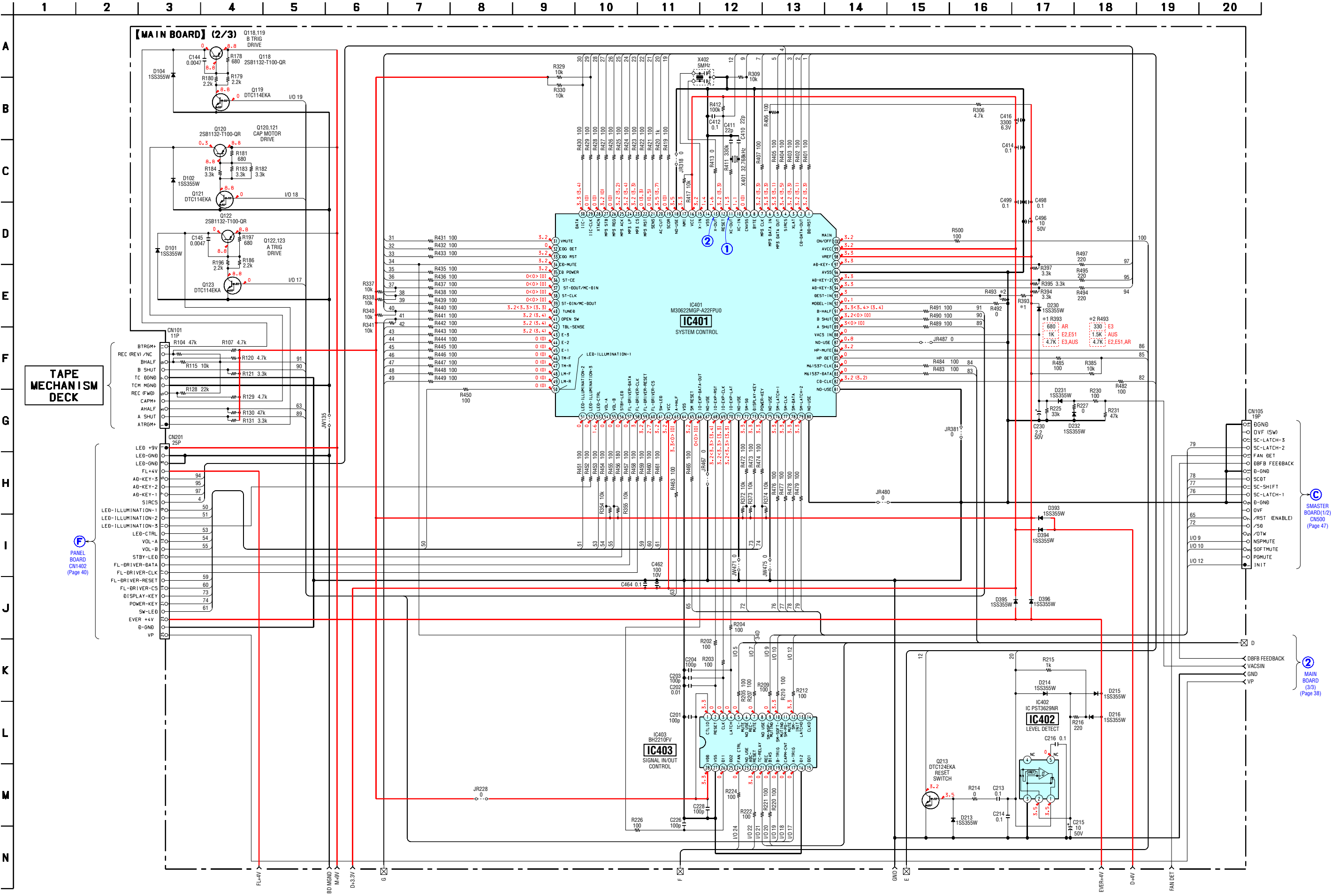
7-11. SCHEMATIC DIAGRAM – MAIN BOARD (1/3) –



7-12. SCHEMATIC DIAGRAM – MAIN BOARD (2/3) –

• See page 25 for Waveforms.

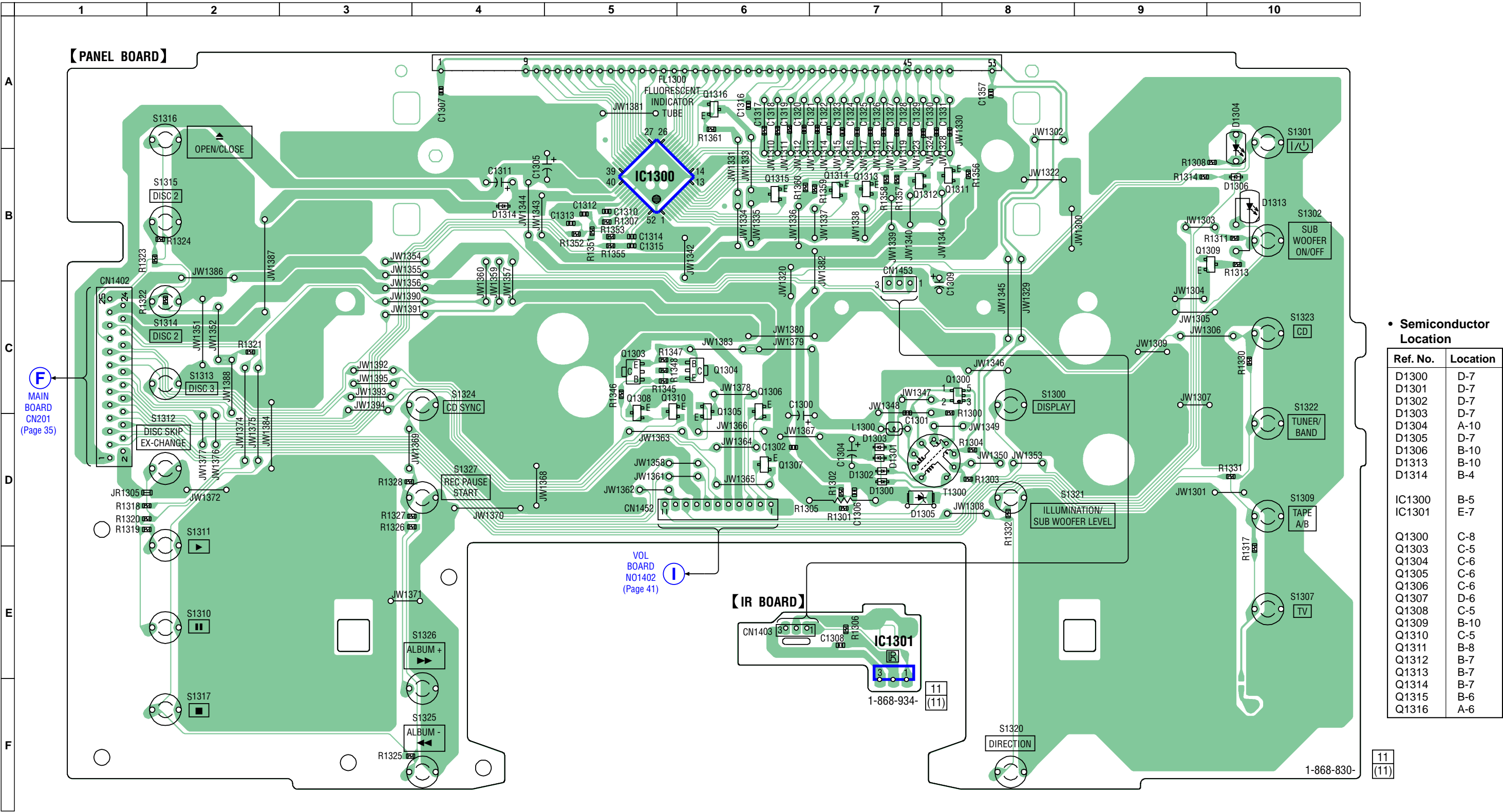
• See page 57 for IC Pin Function Description

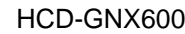


38 38



7-14. PRINTED WIRING BOARDS – PANEL SECTION – • See page 25 for Circuit Boards Location.  : Uses unloaded solder.

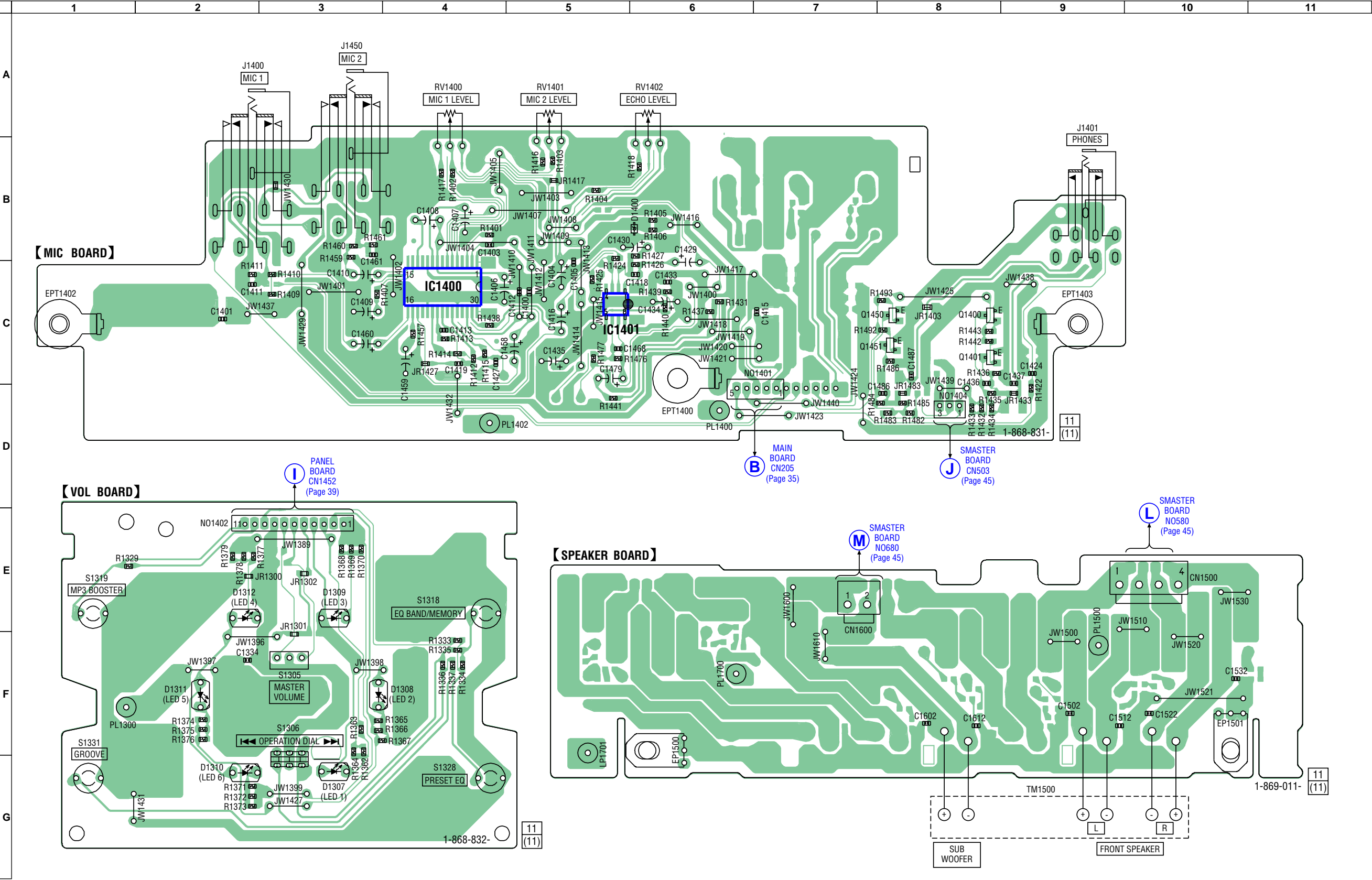




7-16. PRINTED WIRING BOARDS – MIC, VOL and SPEAKER BOARDS –

• See page 25 for Circuit Boards Location.

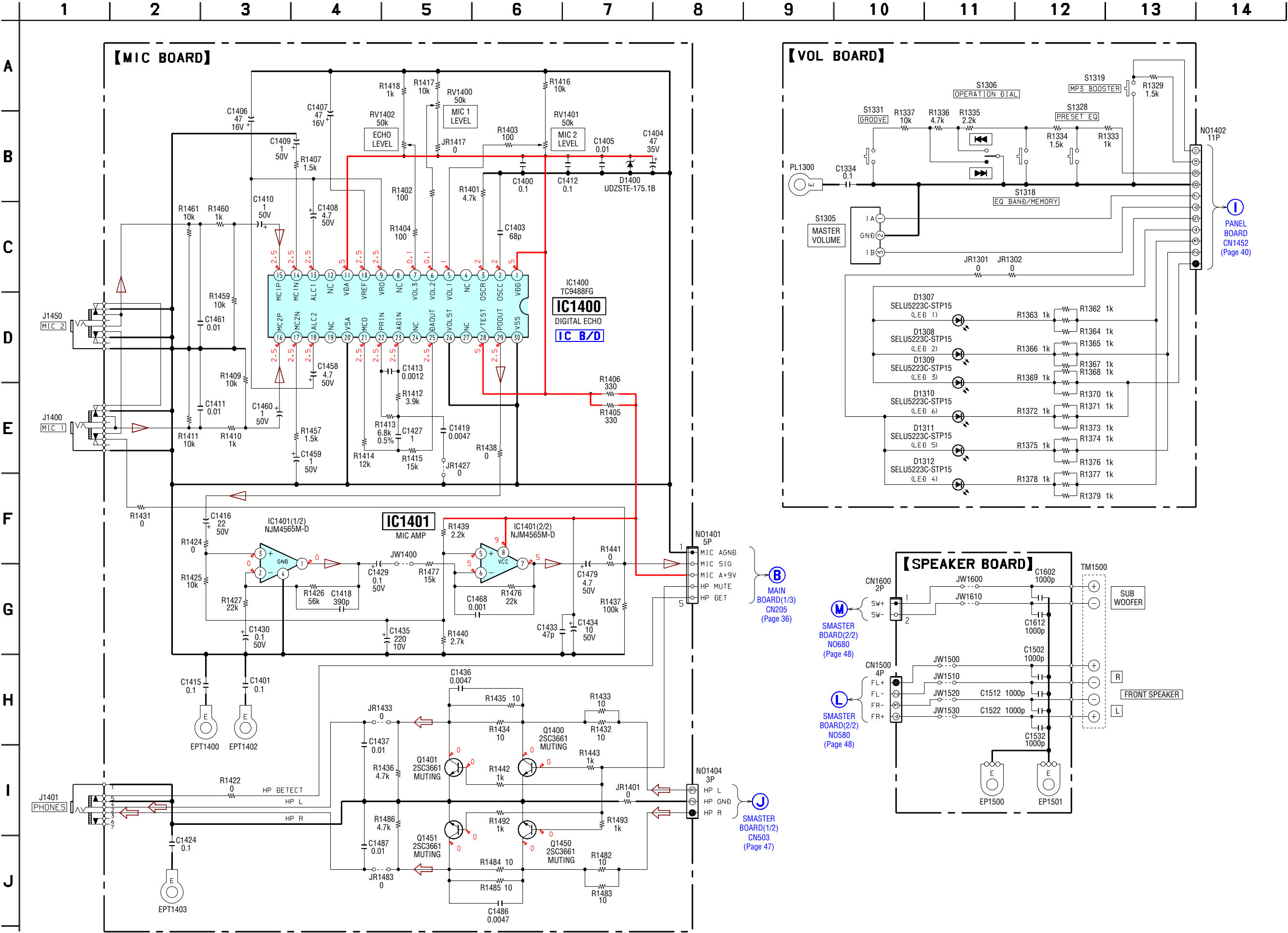
 : Uses unleaded solder.



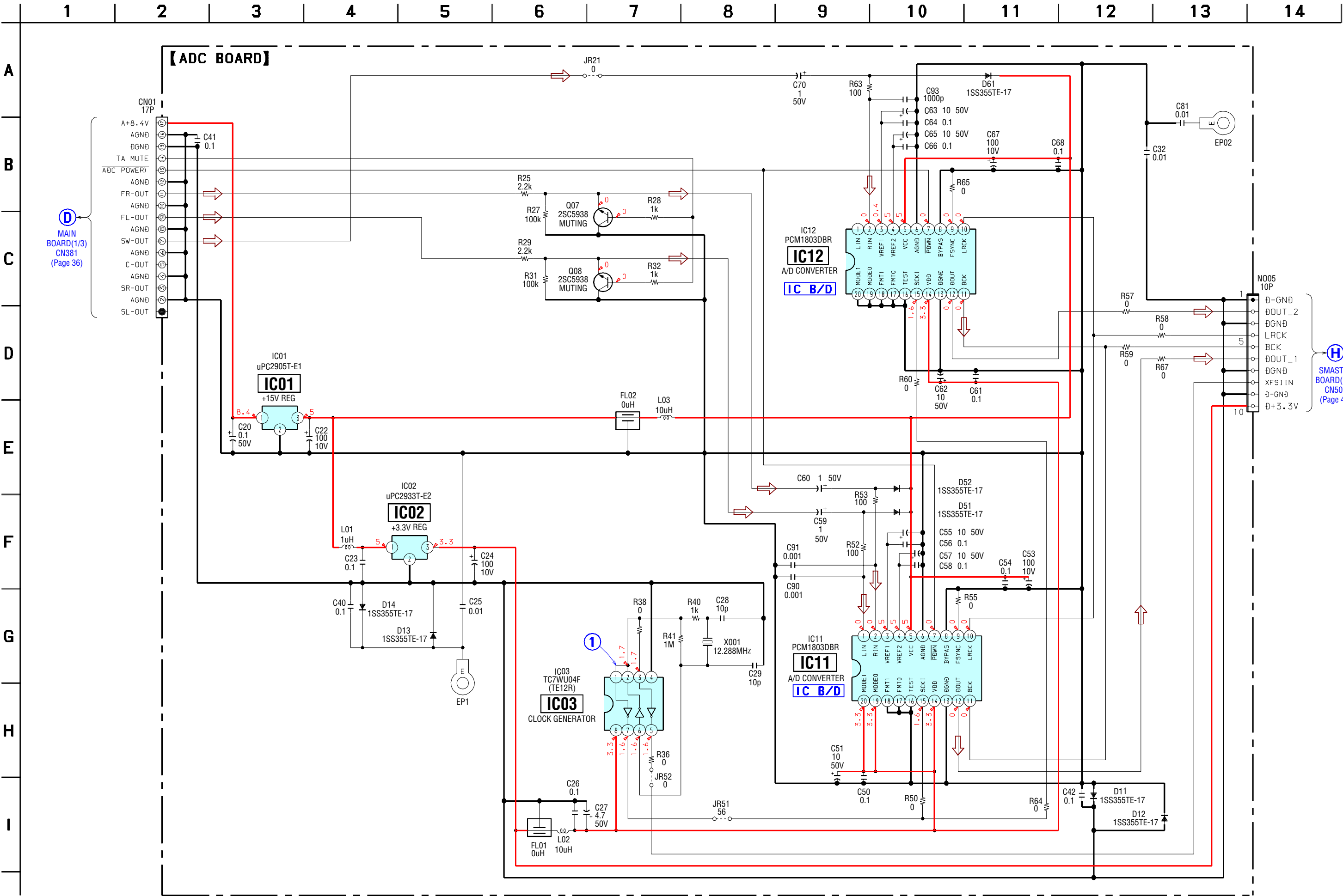
• Semiconductor Location

Ref. No.	Location
D1307	G-3
D1308	F-4
D1309	E-3
D1310	G-2
D1311	F-2
D1312	E-2
D1400	B-6
IC1400	C-4
IC1401	C-5
Q1400	C-8
Q1401	C-8
Q1450	C-8
Q1451	C-8

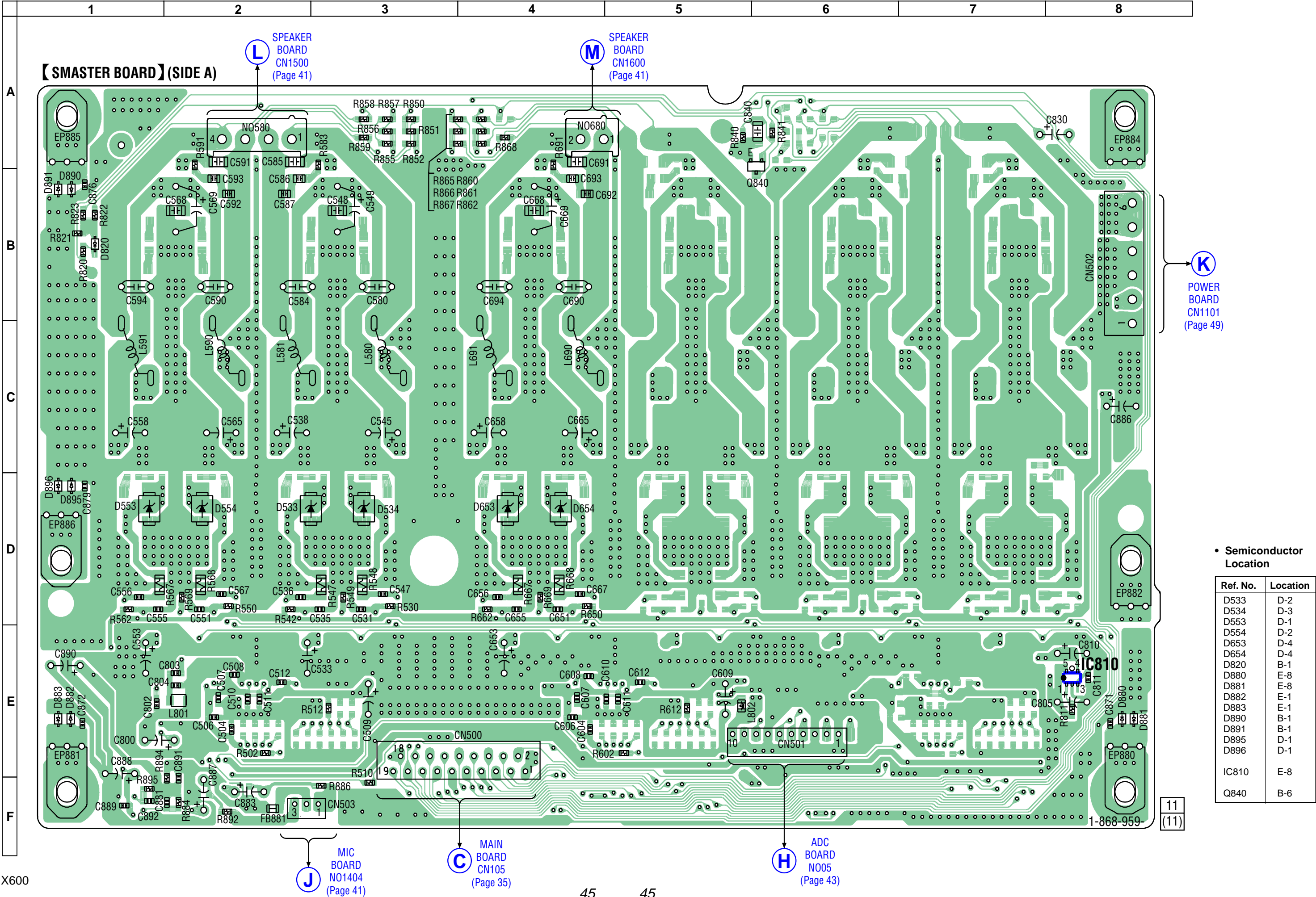
7-17. SCHEMATIC DIAGRAM – MIC, VOL and SPEAKER BOARDS – • See page 51 for IC Block Diagrams.



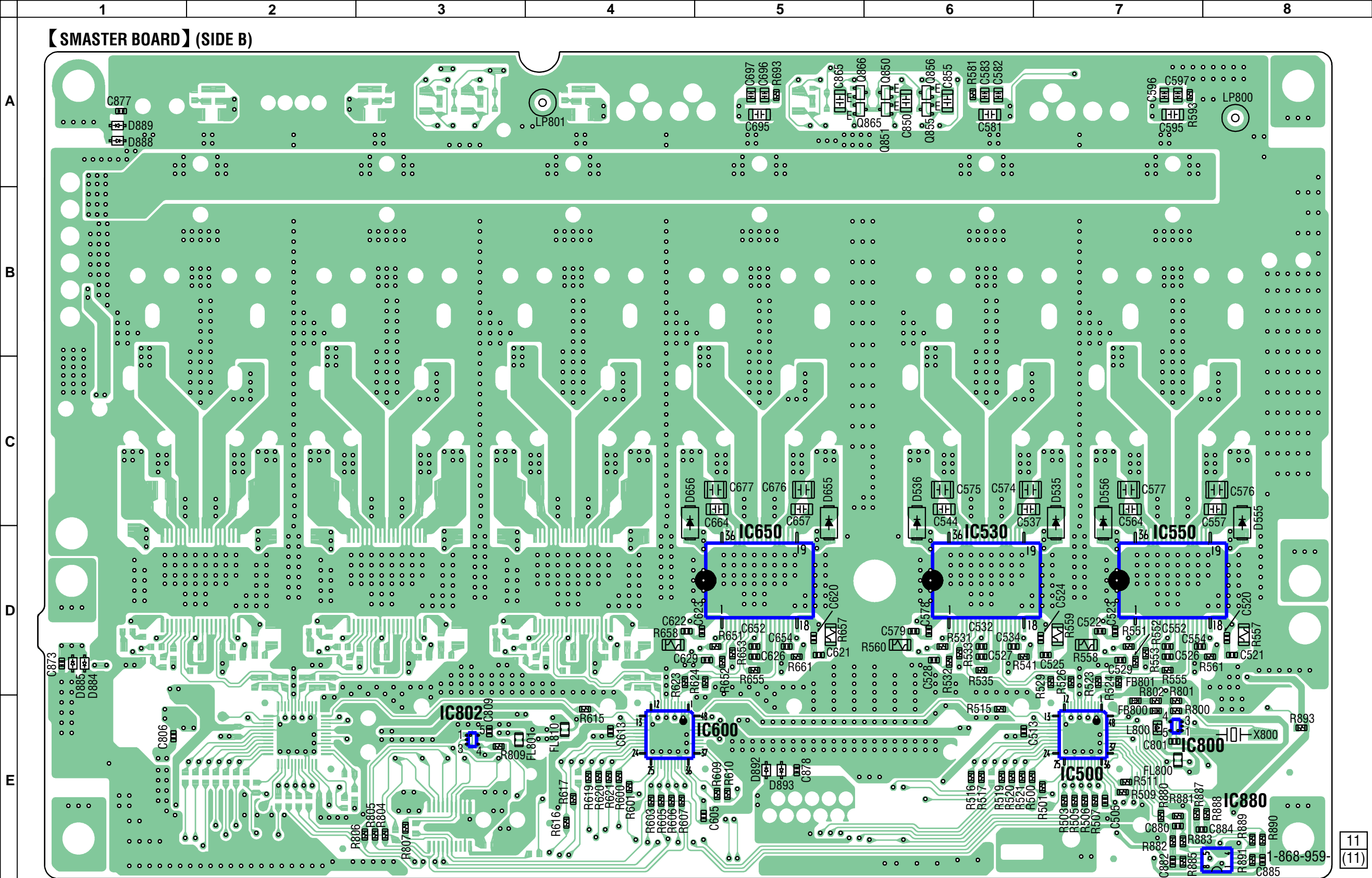
7-19. SCHEMATIC DIAGRAM – ADC BOARD – • See page 53 for IC Block Diagrams.



7-20. PRINTED WIRING BOARD – SMASER BOARD (SIDE A) – • See page 25 for Circuit Boards Location.  : Uses unleaded solder.



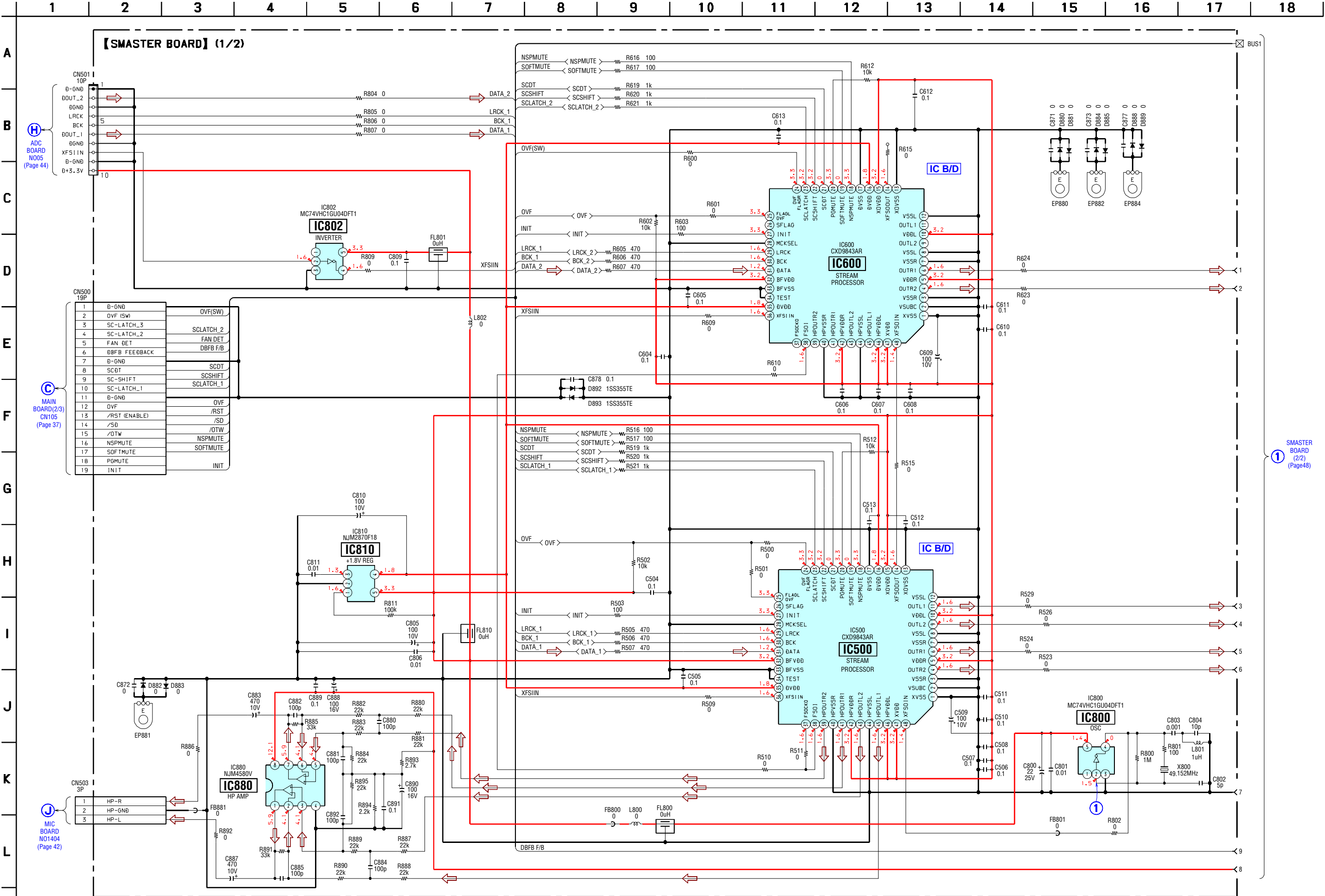
7-21. PRINTED WIRING BOARD – SMASTER BOARD (SIDE B) – • See page 25 for Circuit Boards Location.  : Uses unleaded solder.



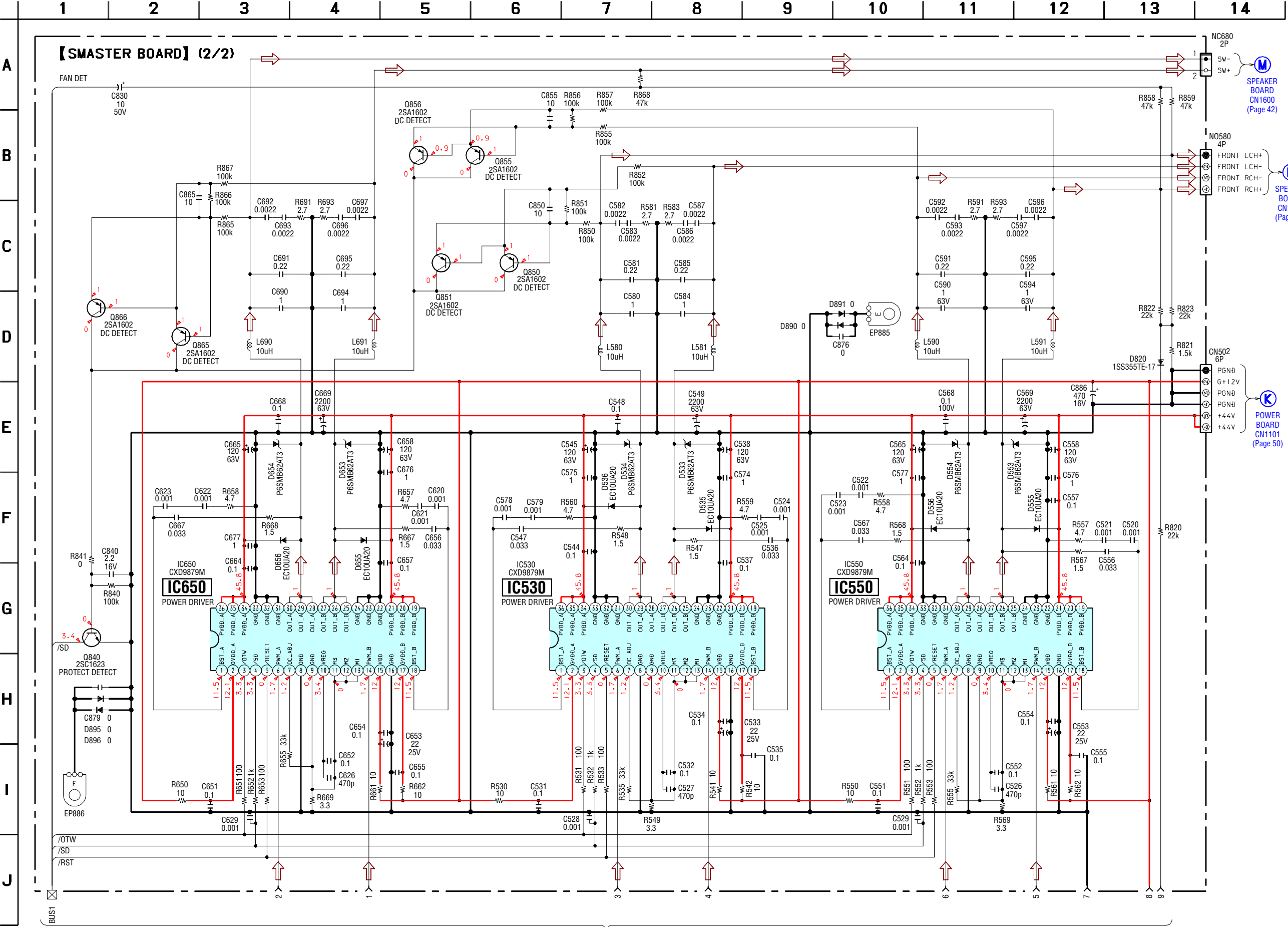
• Semiconductor Location

Ref. No.	Location
D535	C-7
D536	C-6
D555	C-8
D556	C-7
D655	C-5
D656	C-4
D884	D-1
D885	D-1
D888	A-1
D889	A-1
D892	E-5
D893	E-5
IC500	E-7
IC530	D-6
IC550	D-7
IC600	E-5
IC650	D-5
IC800	E-7
IC802	E-3
IC880	E-8
Q850	A-6
Q851	A-6
Q855	A-6
Q856	A-6
Q865	A-6
Q866	A-5

7-22. SCHEMATIC DIAGRAM – SMASER BOARD (1/2) – • See page 53 for IC Block Diagrams.

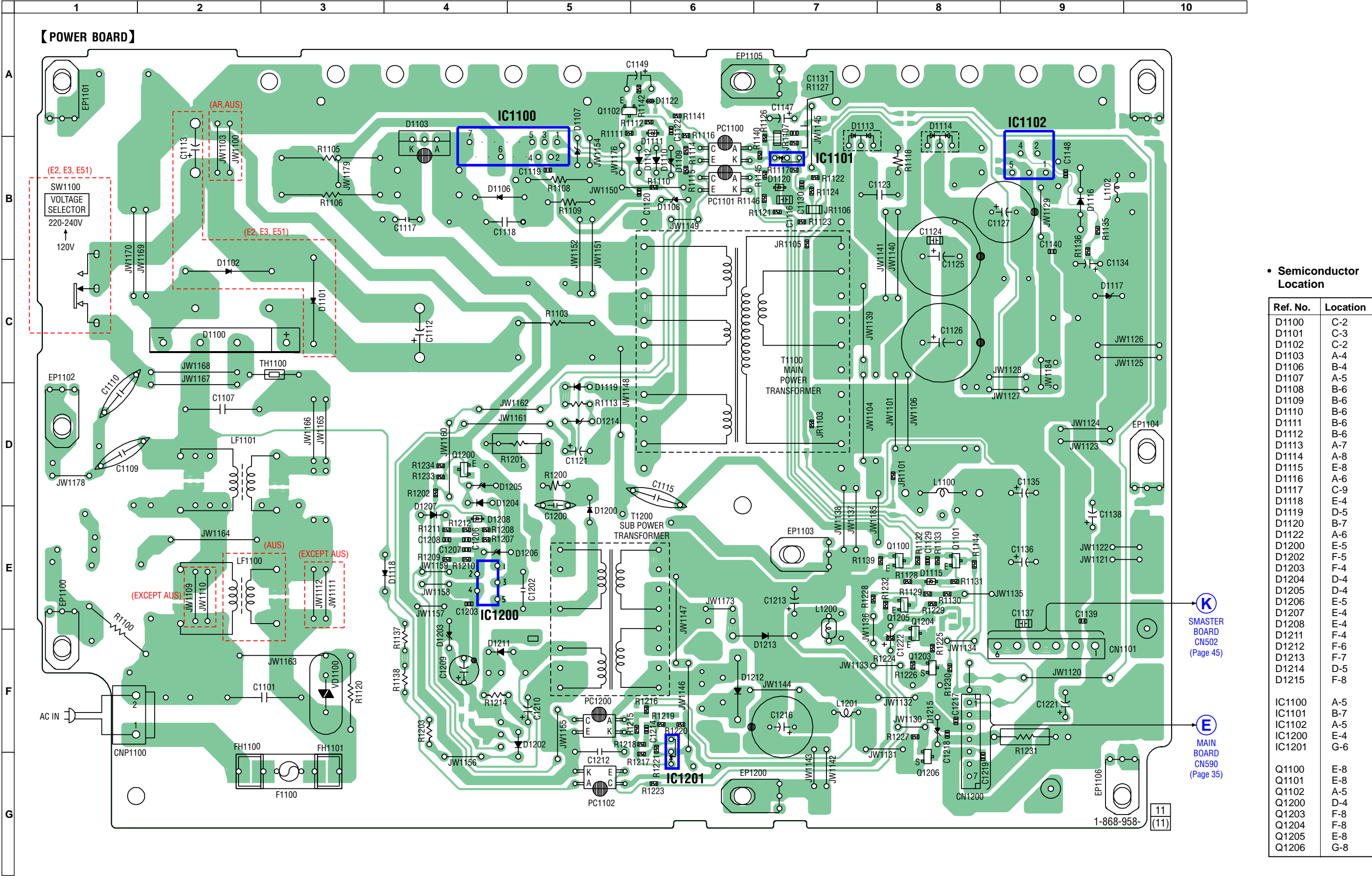


7-23. SCHEMATIC DIAGRAM – SMASER BOARD (2/2) –

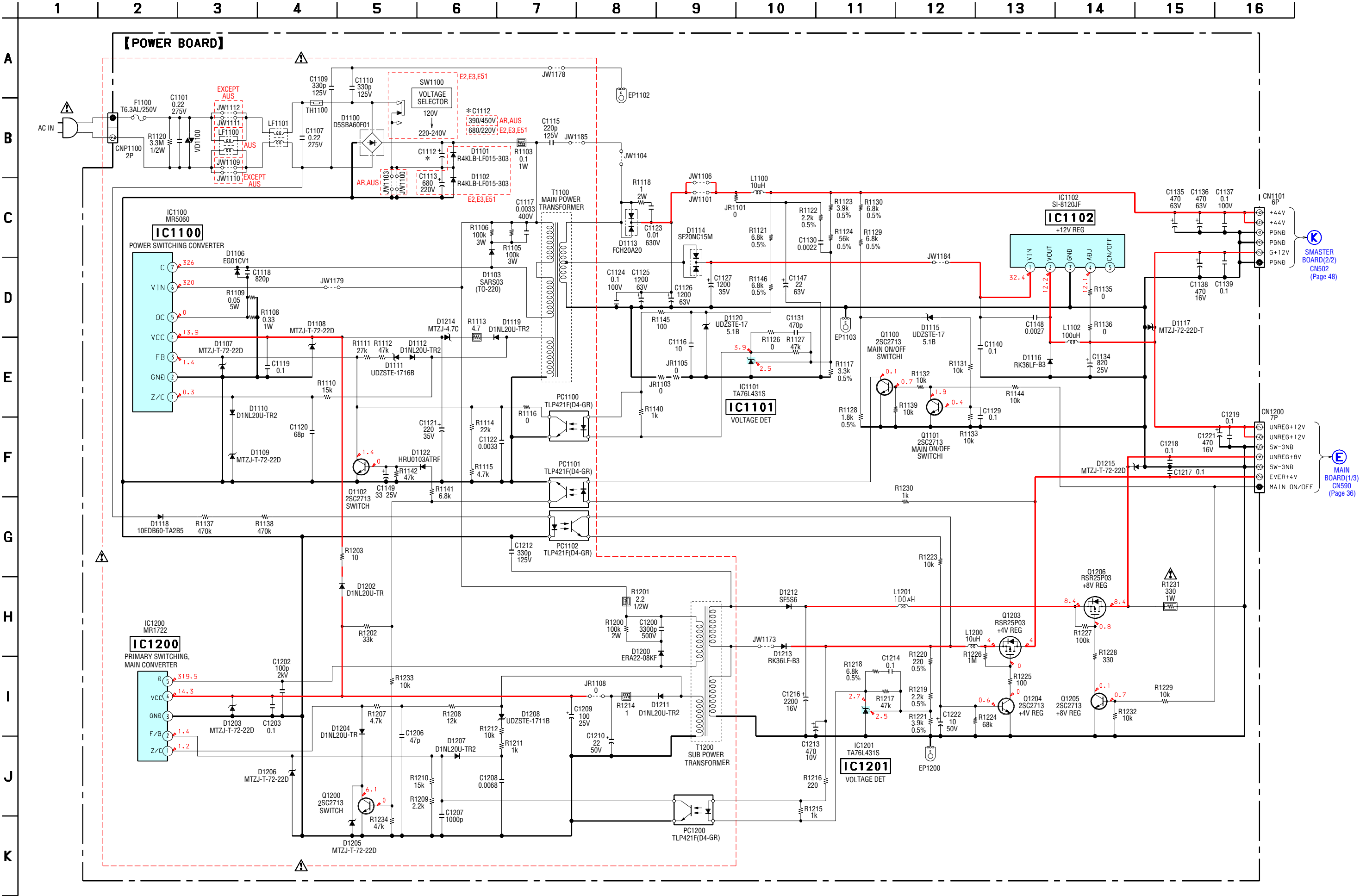


1 SMASER BOARD (1/2) (Page 47)

7-24. PRINTED WIRING BOARD – POWER BOARD – • See page 25 for Circuit Boards Location.  : Uses unleaded solder.

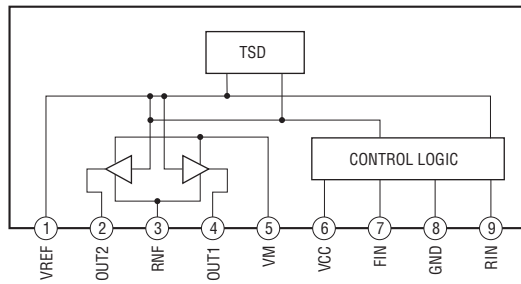


7-25. SCHEMATIC DIAGRAM – POWER BOARD –



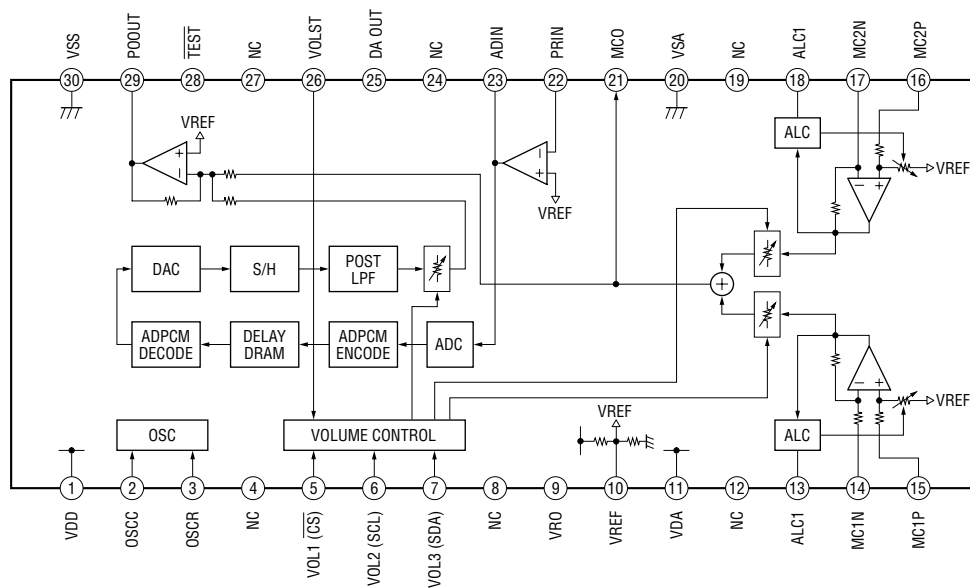
• IC Block Diagrams
– DRIVER Board –

IC701, 712 BA6956AN



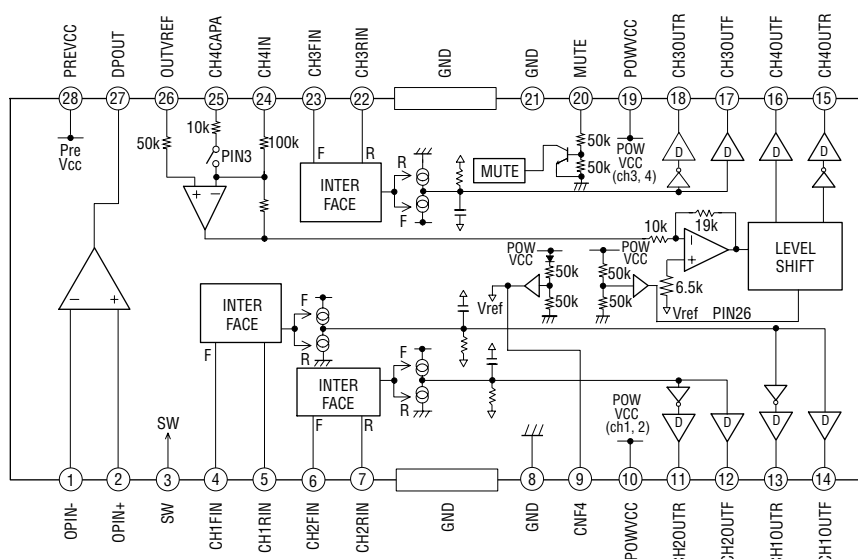
– MIC Board –

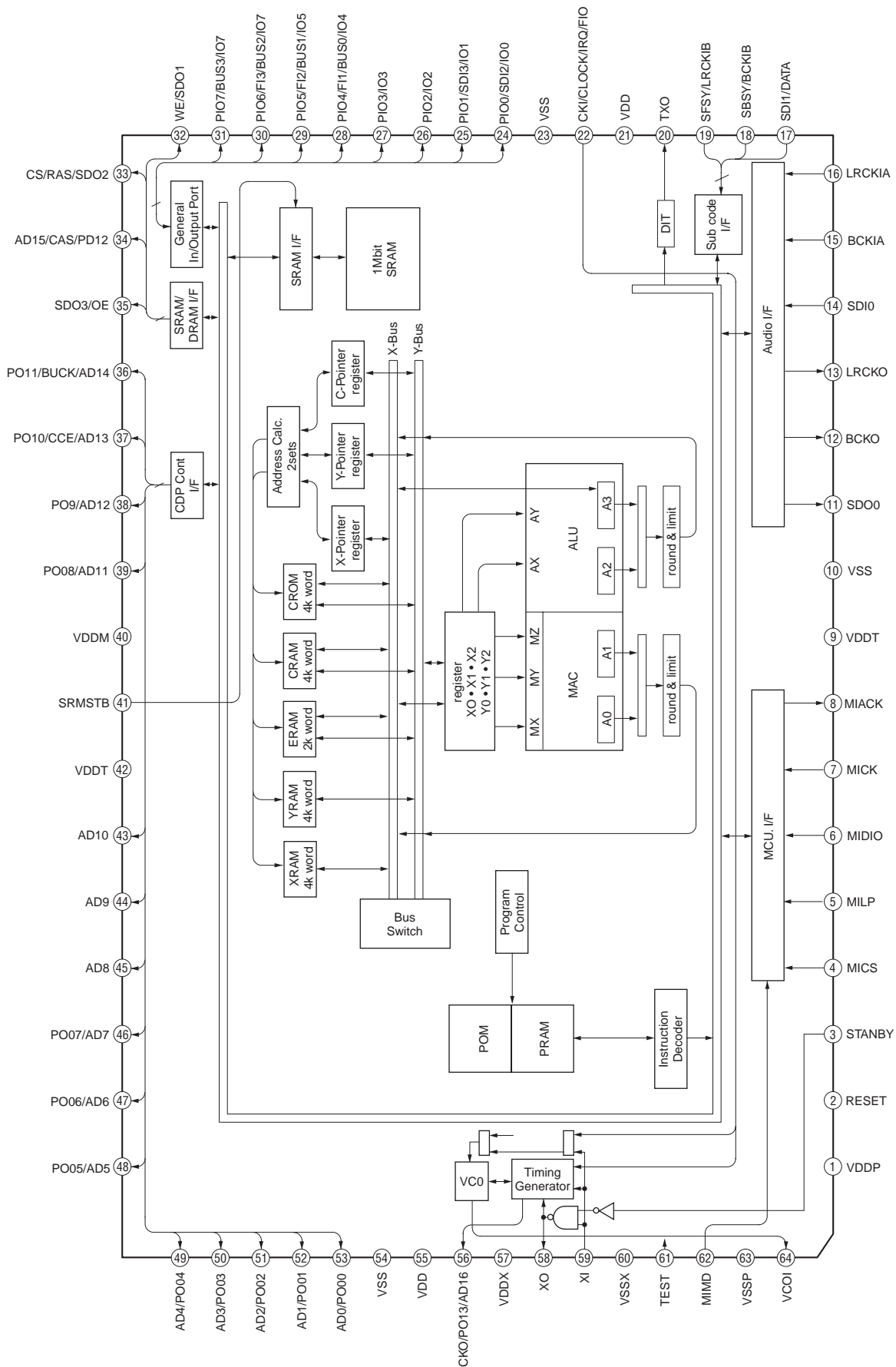
IC1400 TC9488FG



– CD Board –

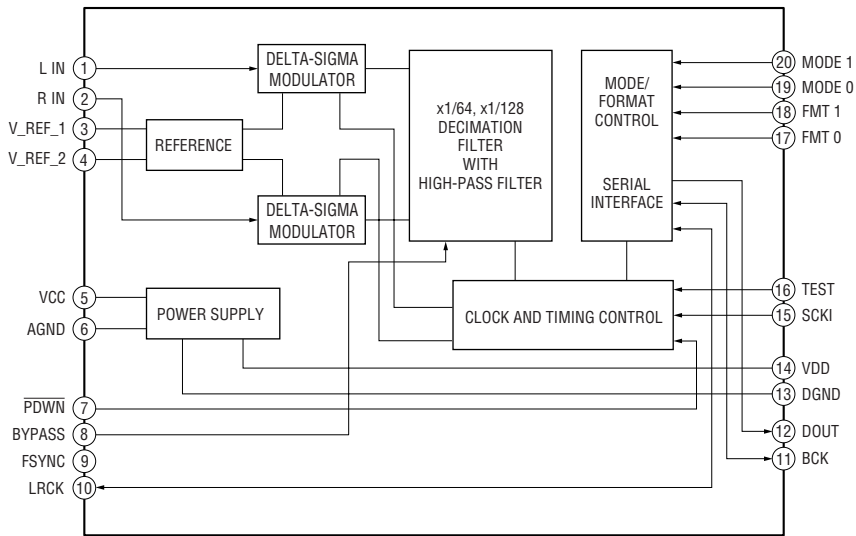
IC251 BA5947FM-E2





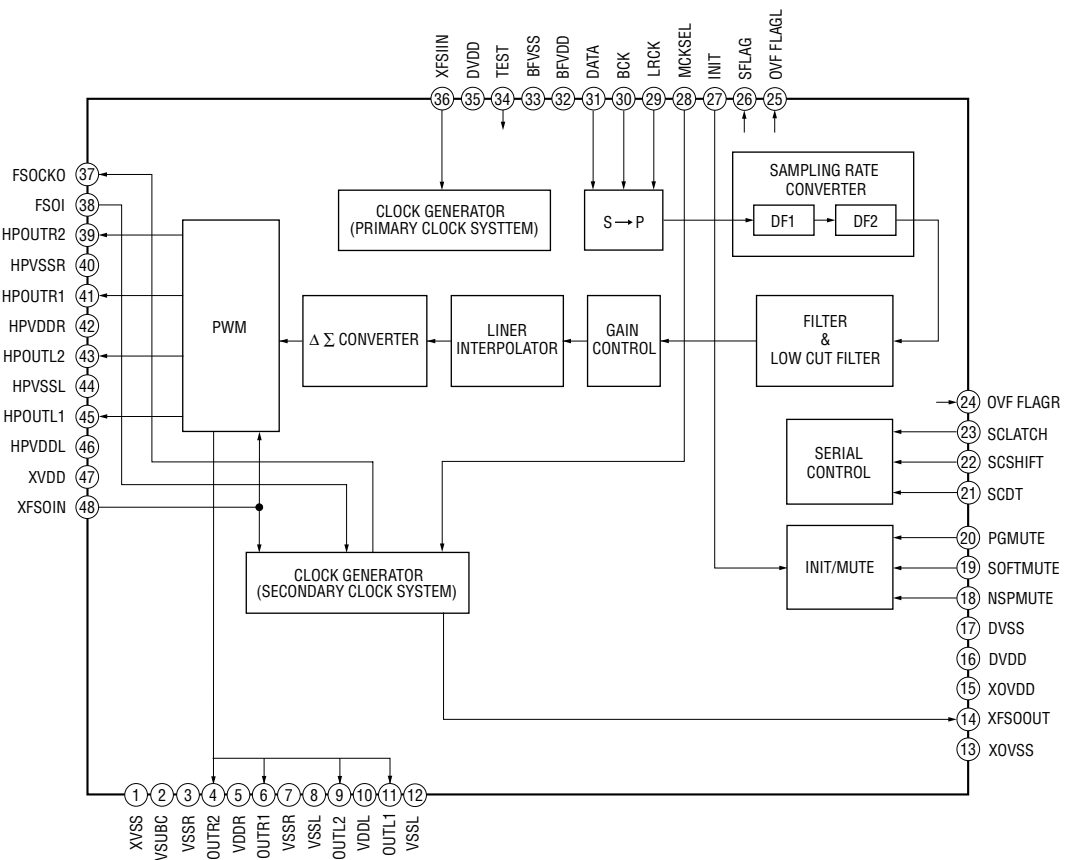
– ADC Board –

IC11,12 PCM1803DBR



– SMASTER Board –

IC500,600 CXD9843AR



7-26. IC Pin Function Descriptions

• IC101 CXD3059AR (RF AMP,DSP,DAC) (CD BOARD)

Pin No.	Pin Name	I/O	Description
1	MIRR	I/O	Not used (Open)
2	DFCT	I/O	Not used (Open)
3	FOK	I/O	Not used (Open)
4	VSS	–	Ground terminal
5	LOCK	I/O	Not used (Open)
6	MDP	O	Spindle motor servo control signal output
7	SSTP	I	Disc innermost detection signal input
8	IOVSS1	–	Ground terminal
9	SFDR	O	Sled drive signal output
10	SRDR	O	Sled drive signal output
11	TFDR	O	Tracking drive signal output
12	TRDR	O	Tracking drive signal output
13	FFDR	O	Focus drive signal output
14	FRDR	O	Focus drive signal output
15	IOVDD1	–	Power supply terminal (+3.3V)
16	AVDD0	–	Power supply terminal (+3.3V)
17	AVSS0	–	Ground terminal
18	NC	–	Not used (Open)
19	E	I	E signal input
20	F	I	F signal input
21	TEI	I	Tracking error signal input
22	TEO	O	Tracking error signal output
23	FEI	I	Focus error signal input
24	FEO	O	Focus error signal output
25	VC	O	Center voltage output from RF amplifier block
26	A	I	A signal input
27	B	I	B signal input
28	C	I	C signal input
29	D	I	D signal input
30	NC	–	Not used (Open)
31	AVDD4	–	Power supply terminal (+3.3V)
32	RFDCO	O	RFDC signal output (Open)
33	PDSSENS	I	Reference voltage terminal
34	AC_SUM	O	RFAC summing amplifier signal output
35	EG_IN	I	Equalizer circuit signal input
36	LD	O	APC LD drive signal output
37	PD	I	APC PD signal input
38	NC	–	Not used (Open)
39	RFC	I	Equalizer cut-off frequency adjustment terminal
40	AVSS4	–	Ground terminal
41	RFACO	O	RFAC signal output
42	RFACI	I	RFAC signal input or EFM signal input
43	AVDD3	–	Power supply terminal (+3.3V)
44	BIAS	I	Asymmetry circuit constant current input
45	ASYI	I	Asymmetry comparator voltage input
46	ASYO	O	EFM full-swing signal output
47	VPCO	O	Not used (Open)
48	VCTL	I	Wide-band EFM PLL VCO2 control voltage input

Pin No.	Pin Name	I/O	Description
49	AVSS3	–	Ground terminal
50	CLTV	I	Multiplier VCO1 control voltage input
51	FILO	O	Master PLL (slave = digital PLL) filter signal output
52	FILI	I	Master PLL filter signal input
53	PCO	O	Master PLL charge pump signal output
54	AVDD5	–	Power supply terminal (+3.3V)
55	DDVROUT	O	DC/DC converter output (+2.5V)
56	DDVRSEN	I	DC/DC converter output voltage monitor signal input
57	AVSS5	–	Ground terminal
58	DDCR	I	DC/DC converter reset signal input
59	NC	–	Not used (Open)
60	BCKI	I	D/A interface bit clock input
61	PCMDI	I	D/A interface serial data input
62	LRCKI	I	D/A interface LR clock input
63	LRCK	O	D/A interface LR clock output $f = F_s$
64	VSS	–	Ground terminal
65	PCMD	O	D/A interface serial data output
66	BCK	O	D/A interface bit clock output
67	VDD	–	Power supply terminal (+2.5V)
68	EMPH	O	High when the playback disc has emphasis, low it has not
69	EMPHI	I	High when de-emphasis is ON, low when input OFF
70	IOVDD2	–	Power supply terminal (+3.3V)
71	DOUT	O	Digital Out signal output
72	TEST	I	Test terminal (Connected to ground)
73	TEST1	I	Test terminal (Connected to ground)
74	IOVSS2	–	Ground terminal
75	NC	–	Not used (Open)
76	XVSS	–	Ground terminal
77	XTAO	O	Crystal oscillation circuit signal output
78	XTAI	I	Crystal oscillation circuit signal input
79	XVDD	–	Power supply terminal (+2.5V)
80	AVDD1	–	Power supply terminal (+3.3V)
81	AOUT1	O	L-ch analog signal output
82	VREFL	O	L-ch reference voltage output
83	AVSS1	–	Ground terminal
84	AVSS2	–	Ground terminal
85	VREFR	O	R-ch reference voltage output
86	AOUT2	O	R-ch analog signal output
87	AVDD2	–	Power supply terminal (+3.3V)
88	NC	–	Not used (Open)
89	IOVDD0	–	Power supply terminal (+3.3V)
90	RMUT	O	Not used (Open)
91	LMUT	O	Not used (Open)
92	NC	–	Not used (Open)
93	XTSL	I	Crystal selection signal input (Pull down)
94	IOVSS0	–	Ground terminal
95	XTACN	I	Oscillation circuit control signal input (“H”: self-oscillation, “L”: oscillation stop)
96	SQSO	O	Not used (Open)
97	SQCK	I	SQSO readout clock input (Connected to +VDD(+3.3V))
98	SBSO	O	Not used (Open)

Pin No.	Pin Name	I/O	Description
99	EXCK	I	Not used (Open)
100	XRST	I	System reset signal input from M30622MEP
101	SYSM	I	Muting signal input (Connected to ground)
102	DATA	I	Serial data input from M30622MEP
103	VSS	–	Ground terminal
104	XLAT	I	Latch signal input from M30622MEP
105	CLOCK	I	Serial data transfer clock input from M30622MEP
106	VDD	–	Power supply terminal (+2.5V)
107	SENS	O	SENS output to M30622MEP
108	SCLK	I	SENS serial data readout clock input (Connected to +VDD(+3.3v))
109	ATSK	I/O	Not used (Open)
110	WFCK	O	Not used (Open)
111	XUGF	O	Not used (Open)
112	XPCK	O	Not used (Open)
113	GFS	O	Not used (Open)
114	C2PO	O	Not used (Open)
115	SCOR	O	High output when the sub code sync, S0 or S1, is detected
116	VDD	–	Power supply terminal (+2.5V)
117	C4M	O	Not used (Open)
118	WDCK	O	Not used (Open)
119	COUT	I/O	Not used (Open)
120	NC	–	Not used (Open)

• IC401 M30622MGP-A22FPU0 SYSTEM CONTROL (MAIN BOARD)

Pin No.	Pin Name	I/O	Description
1	BD-RST	O	Reset signal output to the digital signal processor (“L”:reset)
2	CD-DATA-OUT	O	Serial data output to the digital signal processor
3	XLAT	O	Serial data latch pulse output to the digital signal processor
4	SIRCS	I	Remote control signal input
5	MP3-DATA-OUT	O	Serial data output signal to MP3 decoder IC
6	MP3-DATA-IN	I	Serial data input signal from MP3 decoder IC
7	MP3-CLK	O	Serial data transfer clock signal to MP3 decoder IC
8	BYTE	-	Ground terminal
9	CNVSS	-	Ground terminal
10	XC-IN	I	Sub system clock input terminal (32.768kHz)
11	XC-OUT	O	Sub system clock output terminal (32.768kHz)
12	RESET	I	System reset signal input from the reset signal IC (“L”: reset) After the power supply rises, “L” is input for several hundreds msec and then change to “H”.
13	X-OUT	O	Main system clock output terminal (5MHz)
14	VSS	-	Ground terminal
15	X-IN	I	Main system clock input terminal (5MHz)
16	VCC	-	Power supply terminal (+3.3V)
17	NMI	I	Non-maskable interrupt input terminal (Pull to +3.3V)
18	NO-USE	I	Unused port (Pull to ground)
19	SCOR	I	Subcode sync (S0+S1) detection signal input from the digital signal processor
20	AC-CUT	I	“C off detection signal input from the reset signal IC (“L”: AC cut detected)
21	SENS	I	Internal status detection monitor input from the digital signal processor
22	MP3-RST	O	Reset signal output to MP3 decoder IC
23	MP3-CS	O	Chip select output signal to MP3 decoder IC (“L”:enable)
24	MP3-LP	O	Latch output signal to MP3 decoder IC (“L”:enable)
25	MP3-ACK	I	Acknowledgement input signal from MP3 decoder IC (“L”:acknowledged)
26	MP3-REQ	I	Request signal from MP3 decoder IC
27	MP3-STB	O	Standby mode signal output to MP3 decoder IC (“L”:standby mode)
28	XTACN	O	BD DSP oscillation on/off control signal output (“H”:on)
29	IIC-CLK	I/O	Clock signal for IIC communication between the microcomputer and the IIC checker
30	IIC-DATA	I/O	Data signal for IIC communication between the microcomputer and the IIC checker
31	VMUTE	O	CDG video signal muting on/off control signal output (“H”: muting on)
32	CDG-DET	I	CDG disc detection signal input from CDG decoder (“H”: CDG disc detected)
33	CDG-RST	O	Reset signal output to the CDG decoder (“L”:reset)
34	CD-MUTE	O	CD analog signal muting on/off control signal output (“H”:muting on)
35	CD-POWER	O	Power on/off control signal output to BU section (“H”:power on)
36	ST-CE	O	PLL chip enable signal output to the tuner unit
37	ST-DOUT/MC-DIN	I	PLL serial data input from the tuner unit
38	ST-CLK	O	PLL serial data transfer clock signal output to the tuner unit
39	ST-DIN/MC-DOUT	O	PLL serial data output to the tuner unit
40	TUNED	I	Tuning detection signal input from the tuner unit (“L”:tuned)
41	OPEN-SW	I	Eject detection signal input from the CD mechanism deck
42	TBL-SENSE	I	Disc tray position detection signal input from the CD mechanism deck
43	E-3	I	Disc tray status detection signal input from the CD mechanism deck
44	E-2	I	Disc tray status detection signal input from the CD mechanism deck
45	E-1	I	Disc tray status detection signal input from the CD mechanism deck
46	TM-F	O	Turning motor control signal output to the CD mechanism deck
47	TM-R	O	Turning motor control signal output to the CD mechanism deck

HCD-GNX600

Pin No.	Pin Name	I/O	Description
48	LM-F	O	Loading motor control signal output to the CD mechanism deck
49	LM-R	O	Loading motor control signal output to the CD mechanism deck
50	LED-ILLUMINATION-1	O	Dynamic LED drive signal output to the ILLUMINATION 1st indicator and 2nd indicator
51	LED-ILLUMINATION-2	O	Dynamic LED drive signal output to the ILLUMINATION 3rd indicator and 4th indicator
52	LED-ILLUMINATION-3	O	Dynamic LED drive signal output to the ILLUMINATION 5th indicator and 6h indicator
53	LED-CTRL	O	Dynamic LED drive select signal output
54	VOL-A	I	Jog dial pulse input from the VOLUME rotary encoder (A phase input)
55	VOL-B	I	Jog dial pulse input from the VOLUME rotary encoder (B phase input)
56	STBY-LED	O	LED drive signal output of POWER indicator (“H”:LED is turned on)
57	FL-DRIVER-DATA	O	Serial data output signal to FL Driver, NJU3427
58	FL-DRIVER-CLK	O	Serial data clock signal to FL Driver, NJU3427
59	FL-DRIVER-RESET	O	Serial data reset signal to FL Driver, NJU3427
60	FL-DRIVER-CS	O	Serial data chip select signal to FL Driver, NJU3427
61	SW-LED	O	LED drive signal output of SUB WOOFER ON indicator (“H”:LED on)
62	VCC	-	Power supply terminal (+3.3V)
63	A-HALF	I	Deck A cassette detection signal input terminal (“H”:cassette detected)
64	VSS	-	Ground terminal
65	SM-RESET	O	Reset signal output to the S-Master Power IC
66	IO-EXP-DATA-OUT	O	Serial data output signal to IO expander, BH2210V
67	NO-USE	I	Unused port (Pull to ground)
68	IO-EXP-RST	O	Reset signal output to the I/O expander, BH2210V
69	IO-EXP-CLK	O	Serial data latch signal to I/O expander, BH2210V
70	IO-EXP-LAT	O	Serial data clock signal to I/O expander, BH2210V
71	NO-USE	I	Unused port (Pull to ground)
72	SM-SD	I	Shutdown (protector) detection signal from the S-Master Power IC
73	DISPLAY-KEY	I	DISPLAY key press detection signal (Interrupt input)
74	POWER-KEY	I	POWER key press detection signal (Interrupt input)
75	NO-USE	I	Unused port (Pull to ground)
76	SM-LATCH-1	O	Serial data latch pulse output to the S-Master Processor IC (Front channel)
77	SM-CLK	O	Serial data transfer clock signal to the S-Master Processor IC
78	SM-DATA	O	Serial data output signal to the S-Master Processor IC
79	SM-LATCH-2	O	Serial data latch pulse output to the S-Master Processor IC (Sub woofer channel)
80	NO-USE	I	Unused port (Pull to ground)
81	NO-USE	I	Unused port (Pull to ground)
82	CD-CLK	O	Serial data transfer clock signal output to the digital signal processor
83	M61537-DATA	O	Serial data output to audio signal processor, M61537FP
84	M61537-CLK	O	Serial data transfer clock signal output to audio signal processor, M61537FP
85	HP DET	I	Headphone connection detection signal input “H”: headphone connected
86	HP-MUTE	O	Headphone muting on/off control signal (“L”: muting on)
87	NO-USE	I	Unused port (Pull to ground)
88	VACS-IN	I	VACS level detection signal (A/D input)
89	A-SHUT	I	Shut off detection signal input from deck A side reel pulse detector (A/D input)
90	B-SHUT	I	Shut off detection signal input from deck B side reel pulse detector (A/D input)
91	B-HALF	I	Deck B cassette detection and forward side recording tab detection signal input terminal (A/D input)
92	MODEL-IN	I	Model setting terminal (A/D input)
93	DEST-IN	I	Destination setting terminal (A/D input)
94	AD-KEY-3	I	Key input terminal (A/D input)
95	AD-KEY-2	I	Key input terminal (A/D input)

Pin No.	Pin Name	I/O	Description
96	AVSS	-	Ground terminal (for A/D conversion)
97	AD-KEY-1	I	Key input terminal (A/D input)
98	VREF	I	A/D Converter reference voltage input terminal (+3.3V)
99	AVCC	-	Power supply terminal (+3.3V) (for A/D conversion)
100	MAIN ON/OFF	O	Main power on/off control signal output (“H”:power on)

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

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

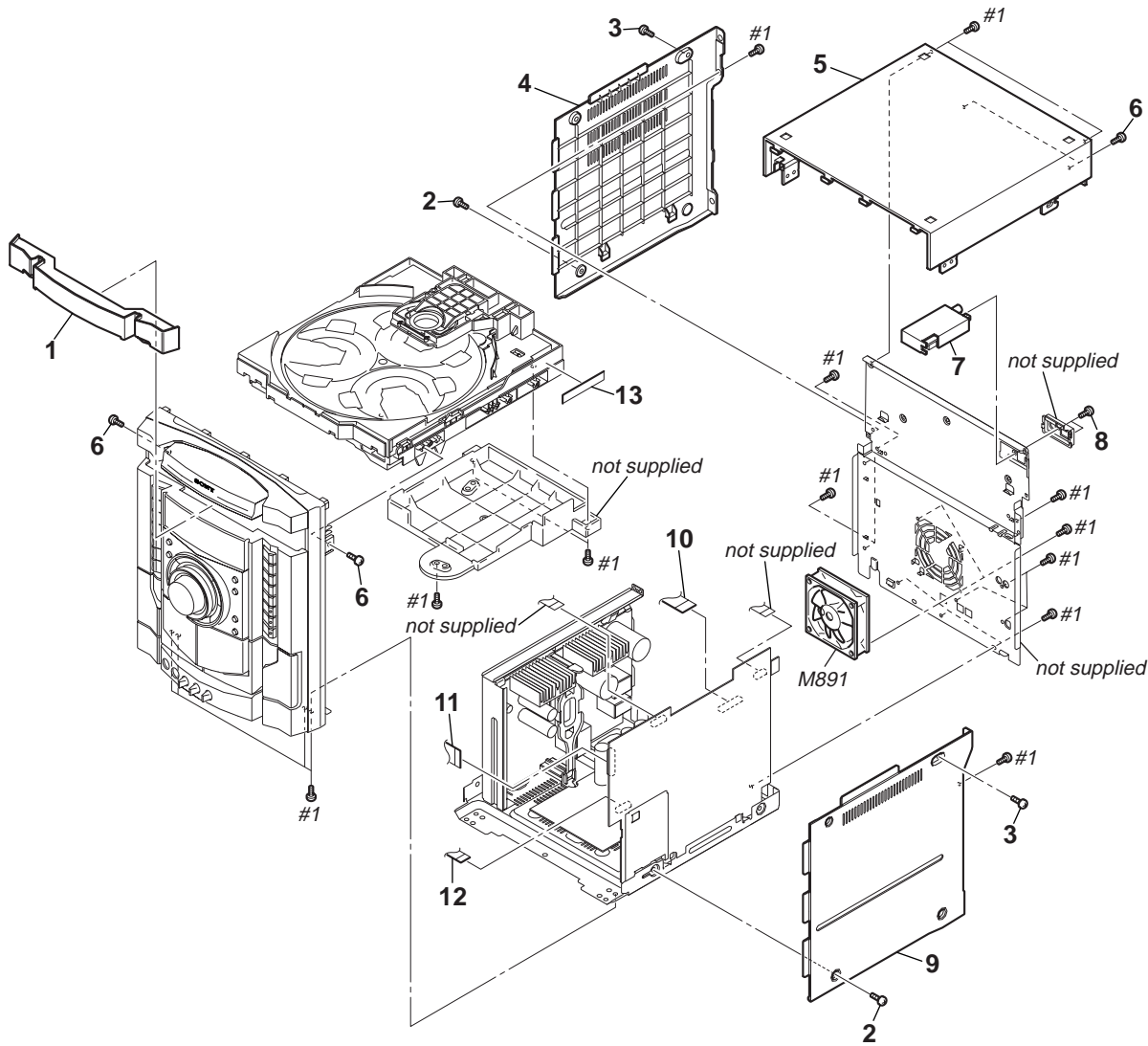
SECTION 8
EXPLODED VIEWS

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories are given in the last of this parts list.
- Abbreviation
AR : Argentina model
AUS : Australian model
E2 : 120V AC Area in E model
E3 : 240V AC Area in E model
E51 : Chilean and Peruvian model

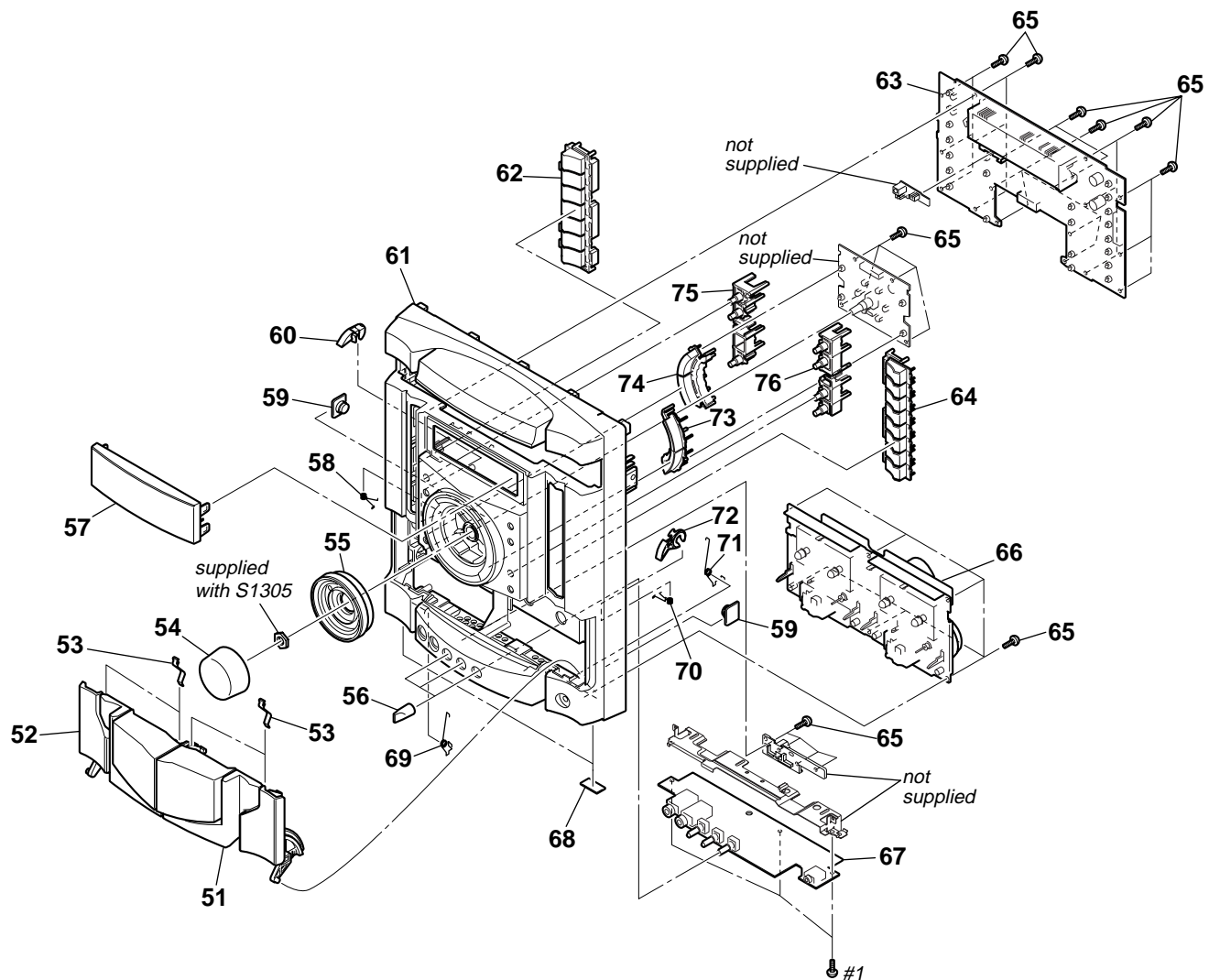
The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.
Replace only with part number specified.

8-1. CASE (TOP), BACK PANEL SECTION



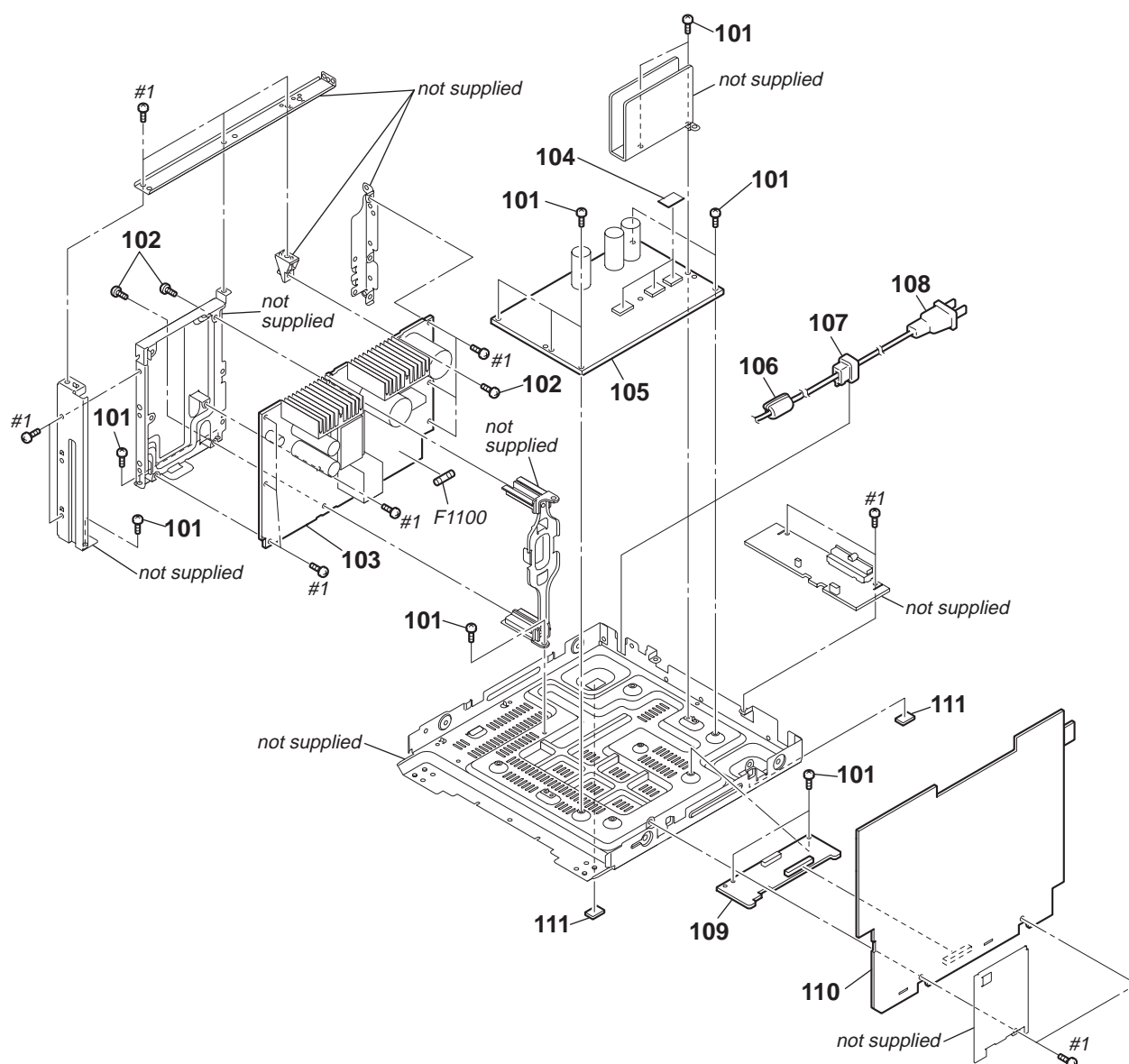
Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
1	2-658-345-01	PANEL, LOADING		9	2-680-201-01	CASE (SIDE-R)	
2	3-363-099-02	SCREW (CASE 3 TP2)		10	1-775-250-11	WIRE (FLAT TYPE) (27 CORE)	
3	3-363-099-32	SCREW (CASE 3 TP2)		11	1-829-030-11	WIRE (FLAT TYPE) (25 CORE)	
4	2-680-202-01	CASE (SIDE-L)		12	1-827-720-11	WIRE (FLAT TYPE) (11 CORE)	
5	2-670-216-01	CASE (TOP)		13	3-378-109-12	CUSHION, SARANET	
6	3-703-136-12	SCREW, TAPPING		M891	1-763-372-11	FAN, DC	
7	1-693-702-11	TUNER (FM/AM) (TM10SE)		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
8	2-630-050-01	+BVTT 3X6 (SUMITITE)					

8-2. FRONT PANEL SECTION



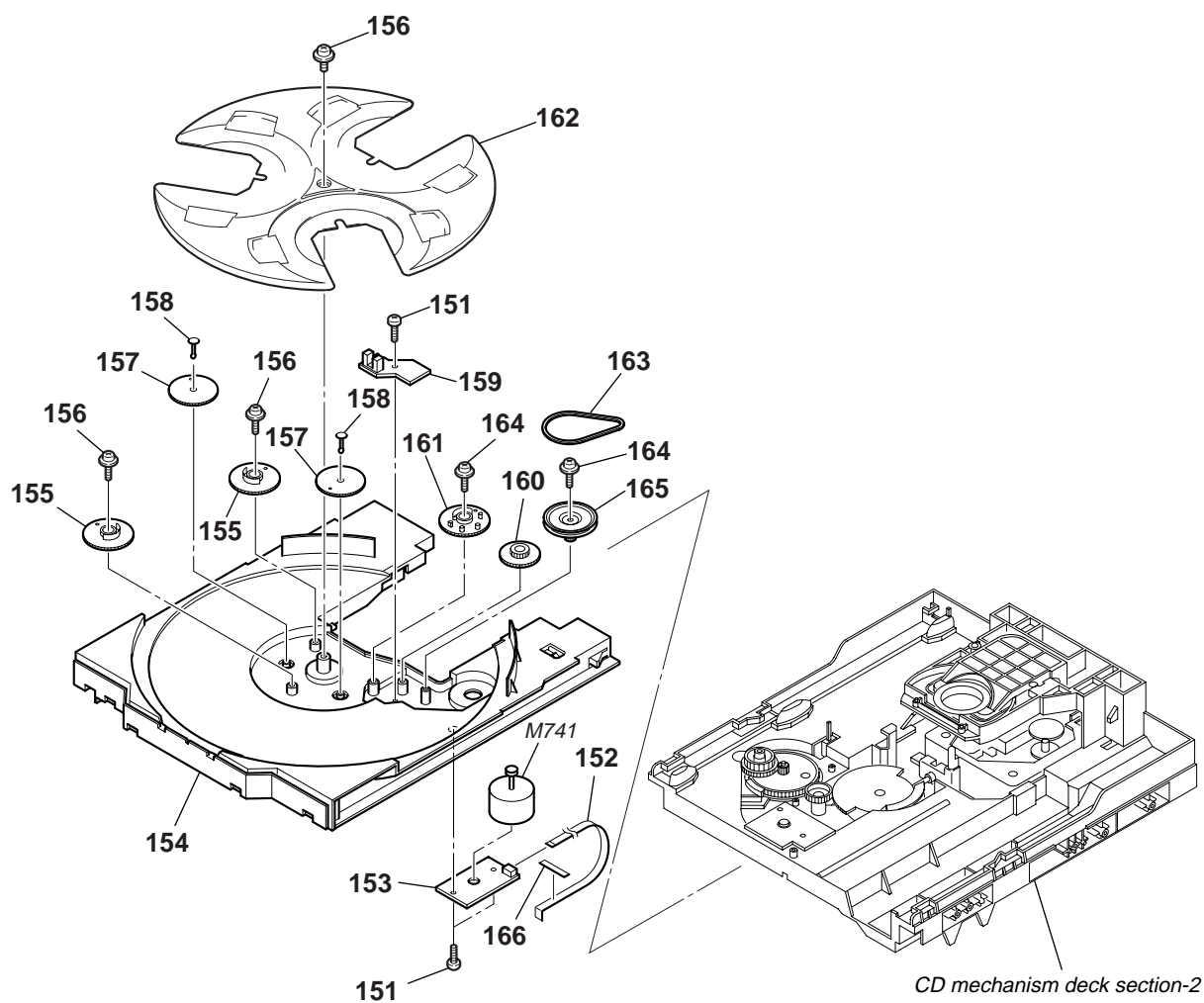
Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
51	2-658-356-01	HOLDER (TC-R)		65	3-087-053-01	+BVTP2.6 (3CR)	
52	2-658-355-01	HOLDER (TC-L)		66	1-417-656-11	MECHA DECK (CWN42FF601)	
53	2-669-613-01	DETENT SPRING		67	A-1167-713-A	MIC BOARD, COMPLETE	
54	2-590-671-01	KNOB (VOL)		68	4-225-252-01	CUSHION (FOOT)	
55	X-2103-595-1	KNOB JOG ASSY		69	2-658-367-01	SPRING (L)	
56	4-238-628-03	MIC KNOB		70	4-231-836-01	SPRING (HEART CAM-A)	
57	2-658-350-01	WINDOW (FL)		71	2-658-368-01	SPRING (R)	
58	4-231-841-01	SPRING (HEART CAM-B)		72	4-231-824-01	CAM (A), HEART	
59	4-224-104-41	DAMPER		73	2-659-548-01	BUTTON (EQ2)	
60	4-231-825-01	CAM (B), HEART		74	2-658-354-01	BUTTON (EQ)	
61	2-658-343-01	PANEL, FRONT		75	2-658-349-01	BUTTON (DISPLAY)	
62	X-2103-443-1	BUTTON (FUNCTION) ASSY		76	2-658-348-01	BUTTON (REC)	
63	A-1167-711-A	PANEL BOARD, COMPLETE		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
64	2-658-347-01	BUTTON (DISC)					

8-3. CHASSIS SECTION



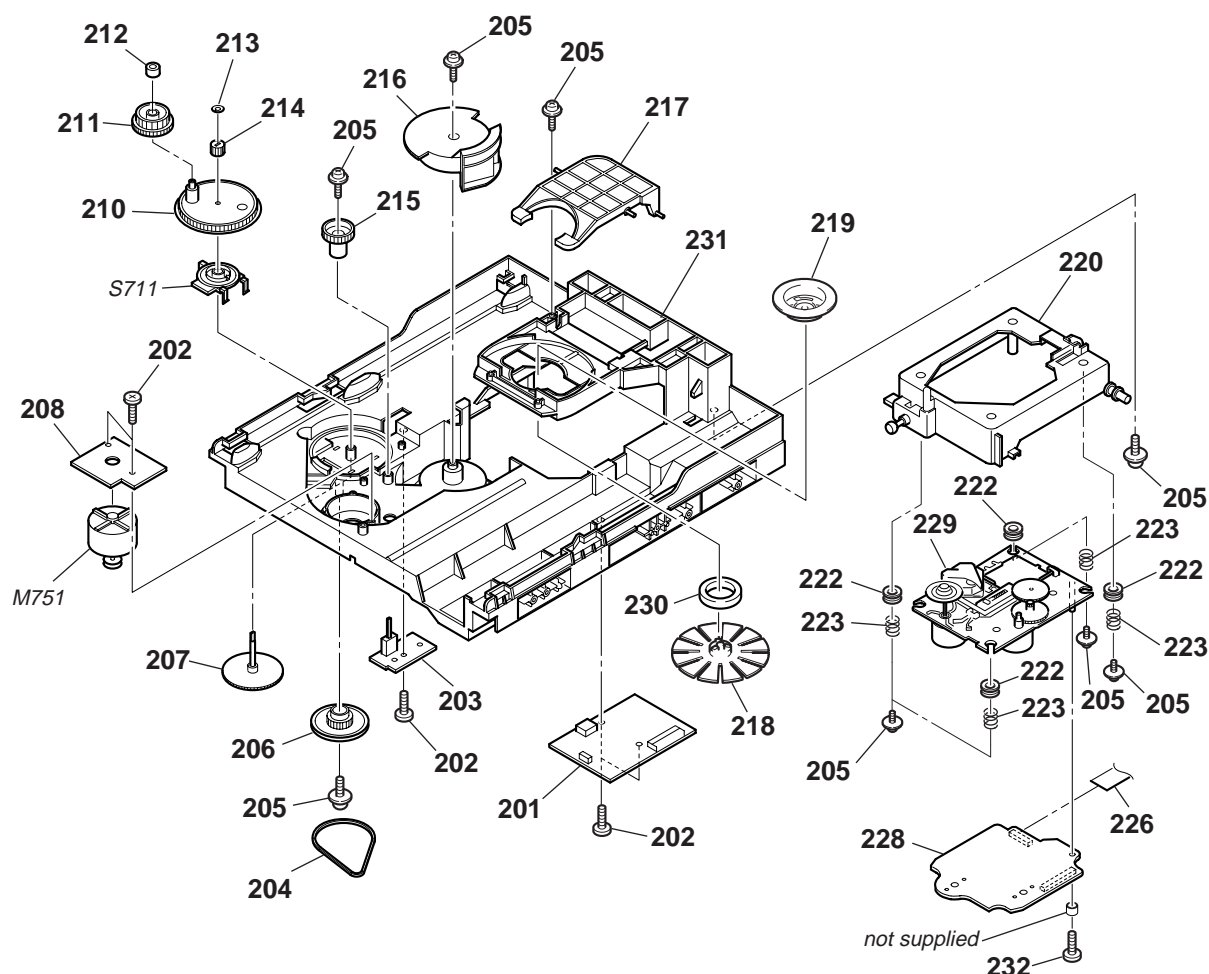
Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
101	2-630-050-01	+BVTT 3X6 (SUMITITE)		△ 108	1-829-259-11	CORD, POWER (AUS)	
102	3-703-136-12	SCREW, TAPPING		△ 108	1-830-188-11	CORD, POWER (E51)	
103	A-1167-594-A	POWER BOARD, COMPLETE (E2, E3, E51)		109	A-1164-115-A	ADC BOARD, COMPLETE	
103	A-1183-818-A	POWER BOARD, COMPLETE (AUS)					
103	A-1183-905-A	POWER BOARD, COMPLETE (AR)		110	A-1159-545-A	MAIN BOARD, COMPLETE (E2)	
104	2-597-972-31	SHEET, RADIATION		110	A-1183-586-A	MAIN BOARD, COMPLETE (AUS)	
105	A-1164-113-A	SMASER BOARD, COMPLETE		110	A-1183-591-A	MAIN BOARD, COMPLETE (E3)	
106	1-500-497-11	FILTER, CLAMP (FERRITE CORE)		110	A-1183-596-A	MAIN BOARD, COMPLETE (E51)	
107	3-703-244-00	BUSHING (2104), CORD (E51, AR, AUS)		110	A-1183-599-A	MAIN BOARD, COMPLETE (AR)	
* 107	3-703-571-12	BUSHING (S) (4516), CORD (E2, E3)		111	4-225-252-01	CUSHION (FOOT)	
△ 108	1-783-941-12	CORD, POWER (AR)		△ F1100	1-532-506-33	FUSE (T6.3AL/250V)	
△ 108	1-827-226-31	CORD, POWER (E2, E3)		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	

8-4. CD MECHANISM DECK SECTION-1



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
151	4-218-253-62	SCREW (M2.6), +BTPP		160	4-243-820-01	GEAR (TABLE)	
152	1-832-798-21	CABLE, FLEXIBLE FLAT (5 CORE)		161	4-243-819-01	GEAR (GENEVA)	
153	1-687-134-12	MOTOR (TB) BOARD		162	4-243-816-11	TRAY	
154	4-243-815-11	TABLE (LOADING)		163	4-243-823-11	BELT (TABLE)	
155	4-245-571-02	GEAR (STOPPER)		164	4-218-252-61	SCREW (+PTPWH M2.6), FLOATING	
156	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING		165	4-243-821-01	PULLEY (TABLE)	
157	4-245-570-01	GEAR (JOINT)		166	3-231-598-01	SHEET (BA)	
158	4-245-572-01	BUSHING (GEAR)		M741	A-1108-965-A	MOTOR ASSY, TABLE (TABLE)	
159	1-687-132-12	SENSOR BOARD					

8-5. CD MECHANISM DECK SECTION-2



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
201	A-1103-756-B	DRIVER BOARD, COMPLETE		217	4-243-822-02	LEVER (LIFTER)	
202	4-218-253-52	SCREW (M2.6), +BTTP		218	X-2102-809-1	PULLEY (KH) ASSY	
203	1-687-669-12	SW BOARD		219	4-231-189-01	PULLEY (B), CHUCKING	
204	4-244-034-11	BELT (LOADING)		220	X-2055-190-1	HOLDER (213) ASSY	
205	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING		222	4-227-549-11	INSULATOR	
206	4-225-844-01	GEAR (LOADING A)		223	4-227-045-31	SPRING (INSULATOR), COIL	
207	4-224-613-11	GEAR (SHAFT)		226	1-832-404-21	CABLE, FLEXIBLE FLAT (16 CORE)	
208	1-687-133-12	MOTOR (LD) BOARD		228	A-4751-431-A	CD BOARD, COMPLETE	
210	4-244-108-01	GEAR, SWING		△229	8-820-244-01	OPTICAL PICK-UP KSM-215DCP/C2NP	
211	4-224-609-01	GEAR (LOADING C)		230	1-471-035-21	MAGNET ASSY	
212	4-224-608-01	COLLAR, SWING		231	4-243-817-22	CHASSIS	
213	3-016-533-11	WASHER (FR), STOPPER		232	3-087-053-01	+BVTP2.6 (3CR)	
214	4-224-611-01	GEAR (LOADING B)		M751	A-1108-966-A	MOTOR ASSY, LOADING (LOADING)	
215	4-224-606-01	GEAR (RV)		S711	1-477-680-12	ENCODER, ROTARY	
216	4-243-818-01	GEAR (U/D)					

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, -X mean standardized parts, so they may have some difference from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:
uF: μ F
- RESISTORS
All resistors are in ohms.
METAL: metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F: nonflammable
- COILS
uH: μ H
- SEMICONDUCTORS
In each case, u: μ , for example:
uA..., μ A..., uPA..., μ PA...,
uPB..., μ PB..., uPC..., μ PC...,
uPD..., μ PD...
- Abbreviation
AR : Argentina model
AUS: Australian model
E2 : 120V AC Area in E model
E3 : 240V AC Area in E model
E51 : Chilean and Peruvian model

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

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

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
	A-1164-115-A	ADC BOARD, COMPLETE *****				< CONNECTOR >	
		< CAPACITOR >		CN01	1-766-720-41	CONNECTOR, BOARD TO BOARD 17P	
C20	1-126-956-91	ELECT 0.1uF 20%	50V			< DIODE >	
C22	1-104-658-91	ELECT 100uF 20%	10V	D11	8-719-988-61	DIODE 1SS355TE-17	
C23	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	D12	8-719-988-61	DIODE 1SS355TE-17	
C24	1-104-658-91	ELECT 100uF 20%	10V	D13	8-719-988-61	DIODE 1SS355TE-17	
C25	1-107-726-91	CERAMIC CHIP 0.01uF 10%	16V	D14	8-719-988-61	DIODE 1SS355TE-17	
C26	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	D51	8-719-988-61	DIODE 1SS355TE-17	
C27	1-126-963-11	ELECT 4.7uF 20%	50V	D52	8-719-988-61	DIODE 1SS355TE-17	
C28	1-162-915-11	CERAMIC CHIP 10PF 0.5PF	50V	D61	8-719-988-61	DIODE 1SS355TE-17	
C29	1-162-915-11	CERAMIC CHIP 10PF 0.5PF	50V			< EARTH TERMINAL >	
C32	1-107-726-91	CERAMIC CHIP 0.01uF 10%	16V	EP01	1-537-738-21	TERMINAL, GROUND	
C40	1-164-156-11	CERAMIC CHIP 0.1uF	25V	EP02	1-537-738-21	TERMINAL, GROUND	
C41	1-164-156-11	CERAMIC CHIP 0.1uF	25V			< FILTER >	
C42	1-164-156-11	CERAMIC CHIP 0.1uF	25V	FL01	1-234-177-21	FILTER, CHIP EMI	
C50	1-164-156-11	CERAMIC CHIP 0.1uF	25V	FL02	1-234-177-21	FILTER, CHIP EMI	
C51	1-126-964-11	ELECT 10uF 20%	50V			< IC >	
C53	1-104-658-91	ELECT 100uF 20%	10V	IC01	8-759-473-95	IC uPC2905T-E1	
C54	1-164-156-11	CERAMIC CHIP 0.1uF	25V	IC02	8-759-583-47	IC uPC2933T-E2	
C55	1-126-964-11	ELECT 10uF 20%	50V	IC03	8-759-387-77	IC TC7WU04F (TE12R)	
C56	1-164-156-11	CERAMIC CHIP 0.1uF	25V	IC11	6-707-608-01	IC PCM1803DBR	
C57	1-126-964-11	ELECT 10uF 20%	50V	IC12	6-707-608-01	IC PCM1803DBR	
C58	1-164-156-11	CERAMIC CHIP 0.1uF	25V			< JUMPER RESISTOR >	
C59	1-126-960-11	ELECT 1uF 20%	50V	JR21	1-216-864-11	SHORT CHIP 0	
C60	1-126-960-11	ELECT 1uF 20%	50V	JR51	1-216-806-11	METAL CHIP 56	5% 1/10W
C61	1-164-156-11	CERAMIC CHIP 0.1uF	25V	JR52	1-216-864-11	SHORT CHIP 0	
C62	1-126-964-11	ELECT 10uF 20%	50V			< COIL >	
C63	1-126-964-11	ELECT 10uF 20%	50V	L01	1-412-939-11	INDUCTOR 1uH	
C64	1-164-156-11	CERAMIC CHIP 0.1uF	25V	L02	1-412-951-11	INDUCTOR 10uH	
C65	1-126-964-11	ELECT 10uF 20%	50V	L03	1-412-951-11	INDUCTOR 10uH	
C66	1-164-156-11	CERAMIC CHIP 0.1uF	25V			< TRANSISTOR >	
C67	1-104-658-91	ELECT 100uF 20%	10V	Q07	6-550-889-01	TRANSISTOR 2SC5938-T112-1B	
C68	1-164-156-11	CERAMIC CHIP 0.1uF	25V	Q08	6-550-889-01	TRANSISTOR 2SC5938-T112-1B	
C70	1-126-960-11	ELECT 1uF 20%	50V				
C81	1-107-726-91	CERAMIC CHIP 0.01uF 10%	16V				
C90	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V				
C91	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V				
C93	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V				

Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
< RESISTOR >						C151	1-128-995-21	ELECT CHIP	100uF	20%	10V
R25	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	C161	1-164-360-11	CERAMIC CHIP	0.1uF		16V
R27	1-216-845-11	METAL CHIP	100K	5%	1/10W	C162	1-164-360-11	CERAMIC CHIP	0.1uF		16V
R28	1-216-821-11	METAL CHIP	1K	5%	1/10W	C163	1-164-360-11	CERAMIC CHIP	0.1uF		16V
R29	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	C171	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
R31	1-216-845-11	METAL CHIP	100K	5%	1/10W	C172	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
R32	1-216-821-11	METAL CHIP	1K	5%	1/10W	C174	1-164-360-11	CERAMIC CHIP	0.1uF		16V
R36	1-216-864-11	SHORT CHIP	0			C181	1-164-360-11	CERAMIC CHIP	0.1uF		16V
R38	1-216-864-11	SHORT CHIP	0			C182	1-164-360-11	CERAMIC CHIP	0.1uF		16V
R40	1-216-821-11	METAL CHIP	1K	5%	1/10W	C183	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
R41	1-216-857-11	METAL CHIP	1M	5%	1/10W	C184	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
R50	1-216-864-11	SHORT CHIP	0			C185	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
R52	1-216-809-11	METAL CHIP	100	5%	1/10W	C186	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
R53	1-216-809-11	METAL CHIP	100	5%	1/10W	C194	1-164-360-11	CERAMIC CHIP	0.1uF		16V
R55	1-216-864-11	SHORT CHIP	0			C195	1-164-360-11	CERAMIC CHIP	0.1uF		16V
R57	1-216-864-11	SHORT CHIP	0			C196	1-164-360-11	CERAMIC CHIP	0.1uF		16V
R58	1-216-864-11	SHORT CHIP	0			C201	1-128-995-21	ELECT CHIP	100uF	20%	10V
R59	1-216-864-11	SHORT CHIP	0			C203	1-128-995-21	ELECT CHIP	100uF	20%	10V
R60	1-216-864-11	SHORT CHIP	0			C209	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R63	1-216-809-11	METAL CHIP	100	5%	1/10W	C210	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
R64	1-216-864-11	SHORT CHIP	0			C211	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
R65	1-216-864-11	SHORT CHIP	0			C212	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
R67	1-216-864-11	SHORT CHIP	0			C213	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
< VIBRATOR >						C251	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
X001	1-795-843-11	VIBRATOR, CRYSTAL (12.288MHz)				C252	1-164-360-11	CERAMIC CHIP	0.1uF		16V
*****						C255	1-164-360-11	CERAMIC CHIP	0.1uF		16V
A-4751-431-A CD BOARD, COMPLETE						C257	1-164-360-11	CERAMIC CHIP	0.1uF		16V
*****						C258	1-164-360-11	CERAMIC CHIP	0.1uF		16V
< CAPACITOR >						C259	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C10	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V	C260	1-128-394-11	ELECT CHIP	220uF	20%	10V
C11	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V	C302	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C14	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C303	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C15	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C305	1-126-246-11	ELECT CHIP	220uF	20%	4V
C16	1-115-156-11	CERAMIC CHIP	1uF		10V	C306	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C17	1-126-246-11	ELECT CHIP	220uF	20%	4V	C307	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C18	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C308	1-126-208-21	ELECT CHIP	47uF	20%	4V
C111	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V	C309	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C112	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	C310	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C113	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V	C311	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C114	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	C312	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C115	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C313	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C116	1-128-995-21	ELECT CHIP	100uF	20%	10V	C314	1-126-208-21	ELECT CHIP	47uF	20%	4V
C122	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C315	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C123	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C316	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C124	1-162-959-11	CERAMIC CHIP	330PF	5%	50V	C317	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C125	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C318	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C131	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C320	1-216-864-11	SHORT CHIP	0		
C132	1-117-863-11	CERAMIC CHIP	0.47uF	10%	6.3V	< CONNECTOR >					
C133	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	CN101	1-770-425-51	CONNECTOR, FFC/FPC 16P			
C134	1-164-360-11	CERAMIC CHIP	0.1uF		16V	CN201	1-818-350-51	CONNECTOR, FFC (LIF (NON-ZIF)) 27P			
C141	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	< FERRITE BEAD >					
C142	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V	FB301	1-500-445-21	FERRITE, EMI (SMD) (2012)			
C143	1-164-360-11	CERAMIC CHIP	0.1uF		16V						

HCD-GNX600

CD DRIVER

Ref. No.	Part No.	Description	Remarks			
< IC >						
IC101	8-752-425-12	IC CXD3059AR				
IC251	6-705-808-01	IC BA5947FM-E2				
IC301	6-705-365-01	IC TC94A34FG-002				
IC303	6-705-807-01	IC BH15FB1WG				
< TRANSISTOR >						
Q10	6-551-120-01	TRANSISTOR 2SA2119K				
< RESISTOR >						
R10	1-216-791-11	METAL CHIP	3.3	5%	1/10W	
R11	1-216-864-11	SHORT CHIP	0			
R12	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R13	1-218-446-11	METAL CHIP	1	5%	1/10W	
R111	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R112	1-216-835-11	METAL CHIP	15K	5%	1/10W	
R113	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R114	1-216-835-11	METAL CHIP	15K	5%	1/10W	
R121	1-216-835-11	METAL CHIP	15K	5%	1/10W	
R131	1-216-857-11	METAL CHIP	1M	5%	1/10W	
R132	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R133	1-216-848-11	METAL CHIP	180K	5%	1/10W	
R141	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R142	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R143	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	
R151	1-216-864-11	SHORT CHIP	0			
R161	1-216-809-11	METAL CHIP	100	5%	1/10W	
R162	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R163	1-216-809-11	METAL CHIP	100	5%	1/10W	
R165	1-216-864-11	SHORT CHIP	0			
R171	1-216-817-11	METAL CHIP	470	5%	1/10W	
R172	1-216-857-11	METAL CHIP	1M	5%	1/10W	
R173	1-216-295-91	SHORT CHIP	0			
R181	1-216-809-11	METAL CHIP	100	5%	1/10W	
R182	1-216-809-11	METAL CHIP	100	5%	1/10W	
R191	1-216-864-11	SHORT CHIP	0			
R201	1-500-445-21	FERRITE, EMI (SMD) (2012)				
R203	1-216-864-11	SHORT CHIP	0			
R204	1-500-445-21	FERRITE, EMI (SMD) (2012)				
R205	1-216-864-11	SHORT CHIP	0			
R251	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R252	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R253	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R301	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R302	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R303	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R305	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R306	1-216-864-11	SHORT CHIP	0			
R307	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R313	1-216-813-11	METAL CHIP	220	5%	1/10W	
R351	1-216-809-11	METAL CHIP	100	5%	1/10W	
R352	1-216-809-11	METAL CHIP	100	5%	1/10W	
R353	1-216-809-11	METAL CHIP	100	5%	1/10W	
R354	1-216-809-11	METAL CHIP	100	5%	1/10W	
R401	1-216-809-11	METAL CHIP	100	5%	1/10W	
R402	1-216-809-11	METAL CHIP	100	5%	1/10W	

Ref. No.	Part No.	Description	Remarks			
R403	1-216-809-11	METAL CHIP	100	5%	1/10W	
R404	1-216-809-11	METAL CHIP	100	5%	1/10W	
R405	1-216-809-11	METAL CHIP	100	5%	1/10W	
R406	1-216-809-11	METAL CHIP	100	5%	1/10W	
R407	1-216-809-11	METAL CHIP	100	5%	1/10W	
R408	1-216-809-11	METAL CHIP	100	5%	1/10W	
R409	1-216-809-11	METAL CHIP	100	5%	1/10W	
R410	1-216-809-11	METAL CHIP	100	5%	1/10W	
R411	1-216-809-11	METAL CHIP	100	5%	1/10W	
R412	1-216-809-11	METAL CHIP	100	5%	1/10W	
R419	1-216-809-11	METAL CHIP	100	5%	1/10W	
R502	1-216-864-11	SHORT CHIP	0			
< SWITCH >						
S101	1-771-853-11	SWITCH, DETECTION (LIMIT)				
< VIBRATOR >						
X171	1-767-408-21	VIBRATOR, CRYSTAL (16.9344MHz)				

A-1103-756-B DRIVER BOARD, COMPLETE						

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


DRIVER

IR

MAIN

Ref. No.	Part No.	Description	Remarks		
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
R736	1-249-412-11	CARBON	390	5%	1/4W
R751	1-249-425-11	CARBON	4.7K	5%	1/4W

IR BOARD					

< CAPACITOR >					
C1308	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
< CONNECTOR >					
CN1403	1-816-423-11	SOCKET, CONNECTOR 3P			
< IC >					
IC1301	6-600-309-01	IC RPM7240-H9 ()			
< RESISTOR >					
R1306	1-216-805-11	METAL CHIP	47	5%	1/10W

A-1159-545-A MAIN BOARD, COMPLETE (E2)					
A-1183-586-A MAIN BOARD, COMPLETE (AUS)					
A-1183-591-A MAIN BOARD, COMPLETE (E3)					
A-1183-596-A MAIN BOARD, COMPLETE (E51)					
A-1183-599-A MAIN BOARD, COMPLETE (AR)					

7-685-646-79 SCREW +BVPT 3X8 TYPE2 IT-3					
< CAPACITOR >					
C101	1-126-964-11	ELECT	10uF	20%	50V
C103	1-126-964-11	ELECT	10uF	20%	50V
C104	1-126-964-11	ELECT	10uF	20%	50V
C105	1-126-964-11	ELECT	10uF	20%	50V
C106	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C107	1-136-497-81	FILM	0.1uF	5%	50V
C108	1-104-700-11	CERAMIC CHIP	0.027uF	10%	16V
C109	1-104-700-11	CERAMIC CHIP	0.027uF	10%	16V
C110	1-126-964-11	ELECT	10uF	20%	50V
C111	1-100-436-91	CERAMIC CHIP	0.033uF	10%	25V
C112	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C113	1-126-964-11	ELECT	10uF	20%	50V
C114	1-137-196-11	FILM	0.68uF	5%	50V
C115	1-137-195-11	FILM	0.56uF	5%	50V
C116	1-126-963-11	ELECT	4.7uF	20%	50V
C118	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C119	1-126-964-11	ELECT	10uF	20%	50V
C120	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C121	1-126-960-11	ELECT	1uF	20%	50V
C122	1-126-964-11	ELECT	10uF	20%	50V
C123	1-162-957-11	CERAMIC CHIP	220PF	5%	50V

Ref. No.	Part No.	Description	Remarks		
C124	1-162-928-11	CERAMIC CHIP	120PF	5%	50V
C125	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C126	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C130	1-164-172-11	CERAMIC CHIP	0.0056uF	10%	25V
C132	1-126-933-11	ELECT	100uF	20%	16V
C133	1-126-960-11	ELECT	1uF	20%	50V
C134	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C135	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C136	1-126-933-11	ELECT	100uF	20%	16V
C137	1-126-935-11	ELECT	470uF	20%	16V
C138	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C139	1-137-150-11	FILM	0.01uF	5%	100V
C140	1-126-947-11	ELECT	47uF	20%	35V
C141	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C142	1-130-481-00	MYLAR	0.0068uF	5%	50V
C144	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C145	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C147	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C148	1-126-961-11	ELECT	2.2uF	20%	50V
C150	1-126-964-11	ELECT	10uF	20%	50V
C151	1-126-964-11	ELECT	10uF	20%	50V
C153	1-126-964-11	ELECT	10uF	20%	50V
C154	1-126-964-11	ELECT	10uF	20%	50V
C156	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C157	1-136-497-81	FILM	0.1uF	5%	50V
C158	1-104-700-11	CERAMIC CHIP	0.027uF	10%	16V
C159	1-104-700-11	CERAMIC CHIP	0.027uF	10%	16V
C160	1-126-964-11	ELECT	10uF	20%	50V
C161	1-100-436-91	CERAMIC CHIP	0.033uF	10%	25V
C162	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C163	1-126-964-11	ELECT	10uF	20%	50V
C164	1-137-196-11	FILM	0.68uF	5%	50V
C165	1-137-195-11	FILM	0.56uF	5%	50V
C166	1-126-963-11	ELECT	4.7uF	20%	50V
C168	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C169	1-126-964-11	ELECT	10uF	20%	50V
C170	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C171	1-126-960-11	ELECT	1uF	20%	50V
C172	1-126-964-11	ELECT	10uF	20%	50V
C173	1-162-957-11	CERAMIC CHIP	220PF	5%	50V
C174	1-162-928-11	CERAMIC CHIP	120PF	5%	50V
C175	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C176	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C177	1-137-194-81	FILM	0.47uF	5%	50V
C178	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C179	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C180	1-164-172-11	CERAMIC CHIP	0.0056uF	10%	25V
C184	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C185	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C186	1-110-563-11	CERAMIC CHIP	0.068uF	10%	16V
C187	1-104-658-91	ELECT	100uF	20%	10V
C188	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C189	1-162-957-11	CERAMIC CHIP	220PF	5%	50V
C190	1-162-957-11	CERAMIC CHIP	220PF	5%	50V
C191	1-137-189-11	FILM	0.18uF	5%	50V
C192	1-126-960-11	ELECT	1uF	20%	50V
C193	1-137-189-11	FILM	0.18uF	5%	50V

HCD-GNX600

MAIN

Ref. No.	Part No.	Description			Remarks
C194	1-126-964-11	ELECT	10uF	20%	50V
C195	1-126-960-11	ELECT	1uF	20%	50V
C197	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C198	1-126-961-11	ELECT	2.2uF	20%	50V
C199	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C200	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C201	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C202	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C203	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C204	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C213	1-136-497-81	FILM	0.1uF	5%	50V
C214	1-136-497-81	FILM	0.1uF	5%	50V
C215	1-126-964-11	ELECT	10uF	20%	50V
C216	1-136-497-81	FILM	0.1uF	5%	50V
C226	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C228	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C230	1-126-961-11	ELECT	2.2uF	20%	50V
C238	1-126-964-11	ELECT	10uF	20%	50V
C267	1-126-964-11	ELECT	10uF	20%	50V
C288	1-126-964-11	ELECT	10uF	20%	50V
C301	1-126-961-11	ELECT	2.2uF	20%	50V
C302	1-126-961-11	ELECT	2.2uF	20%	50V
C303	1-126-961-11	ELECT	2.2uF	20%	50V
C304	1-126-961-11	ELECT	2.2uF	20%	50V
C307	1-126-961-11	ELECT	2.2uF	20%	50V
C308	1-126-961-11	ELECT	2.2uF	20%	50V
C410	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C411	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C412	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C414	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C416	1-126-917-11	ELECT	3300uF	20%	6.3V
C462	1-104-658-91	ELECT	100uF	20%	10V
C464	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C486	1-126-935-11	ELECT	470uF	20%	16V
C496	1-126-964-11	ELECT	10uF	20%	50V
C498	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C499	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C504	1-126-926-11	ELECT	1000uF	20%	10V
C520	1-126-964-11	ELECT	10uF	20%	50V
C521	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C522	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C523	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C526	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C527	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C531	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C534	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C535	1-126-928-11	ELECT	3300uF	20%	10V
C536	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C537	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C538	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C539	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C546	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C547	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C550	1-128-547-11	ELECT	6800uF	20%	16V
C551	1-126-960-11	ELECT	1uF	20%	50V
C552	1-126-925-91	ELECT	470uF	20%	10V
C553	1-126-960-11	ELECT	1uF	20%	50V

Ref. No.	Part No.	Description			Remarks
C554	1-126-925-91	ELECT	470uF	20%	10V
C555	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C556	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C566	1-126-960-11	ELECT	1uF	20%	50V
C567	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C568	1-126-916-11	ELECT	1000uF	20%	6.3V
C570	1-126-964-11	ELECT	10uF	20%	50V
C571	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C580	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C581	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C582	1-128-547-11	ELECT	6800uF	20%	16V
C583	1-126-963-11	ELECT	4.7uF	20%	50V
C585	1-164-156-11	CERAMIC CHIP	0.1uF		25V
< CONNECTOR >					
CN101	1-568-830-11	CONNECTOR, FFC 11P			
CN105	1-784-780-11	CONNECTOR, FFC 19P			
* CN111	1-568-449-11	HOUSING, CONNECTOR (PC BOARD) 3P			
CN121	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P			
* CN131	1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P			
CN201	1-784-786-11	CONNECTOR, FFC 25P			
CN205	1-785-317-11	PIN, CONNECTOR (STRAIGHT) 5P			
CN351	1-779-295-11	CONNECTOR, FFC (LIF (NON-ZIF)) 27P			
* CN381	1-766-718-21	CONNECTOR, BOARD TO BOARD 17P			
CN402	1-785-336-11	PIN, CONNECTOR (LIGHT ANGLE) 10P			
CN405	1-784-774-11	CONNECTOR, FFC 13P			
CN406	1-568-828-11	CONNECTOR, FFC 9P			
CN580	1-564-506-11	PLUG, CONNECTOR 3P			
* CN590	1-564-512-11	PLUG, CONNECTOR 9P			
< DIODE >					
D101	6-501-193-01	DIODE 1SS355WTE-17			
D102	6-501-193-01	DIODE 1SS355WTE-17			
D104	6-501-193-01	DIODE 1SS355WTE-17			
D213	6-501-193-01	DIODE 1SS355WTE-17			
D214	6-501-193-01	DIODE 1SS355WTE-17			
D215	6-501-193-01	DIODE 1SS355WTE-17			
D216	6-501-193-01	DIODE 1SS355WTE-17			
D230	6-501-193-01	DIODE 1SS355WTE-17			
D231	6-501-193-01	DIODE 1SS355WTE-17			
D232	6-501-193-01	DIODE 1SS355WTE-17			
D393	6-501-193-01	DIODE 1SS355WTE-17			
D394	6-501-193-01	DIODE 1SS355WTE-17			
D395	6-501-193-01	DIODE 1SS355WTE-17			
D396	6-501-193-01	DIODE 1SS355WTE-17			
D486	6-501-193-01	DIODE 1SS355WTE-17			
D506	6-501-193-01	DIODE 1SS355WTE-17			
D561	6-500-522-21	DIODE 10EDB40-TB3			
D562	6-500-522-21	DIODE 10EDB40-TB3			
D563	6-500-522-21	DIODE 10EDB40-TB3			
D580	6-501-193-01	DIODE 1SS355WTE-17			
D581	8-719-069-56	DIODE UDZSTE-176.2B			
D582	6-501-193-01	DIODE 1SS355WTE-17			
D583	8-719-978-33	DIODE DTZ-TT11-6.8B			
D586	6-500-522-21	DIODE 10EDB40-TB3			
D594	6-500-522-21	DIODE 10EDB40-TB3			

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
< FERRITE BEAD >				JR027	1-216-864-11	SHORT CHIP	0
				JR028	1-216-864-11	SHORT CHIP	0
FB101	1-216-864-11	SHORT CHIP	0	JR029	1-216-864-11	SHORT CHIP	0
FB102	1-469-125-21	FERRITE, EMI (SMD) (1608)		JR030	1-216-864-11	SHORT CHIP	0
FB103	1-216-864-11	SHORT CHIP	0	JR031	1-216-864-11	SHORT CHIP	0
FB104	1-469-125-21	FERRITE, EMI (SMD) (1608)		JR032	1-216-864-11	SHORT CHIP	0
FB151	1-216-864-11	SHORT CHIP	0	JR033	1-216-864-11	SHORT CHIP	0
FB152	1-469-125-21	FERRITE, EMI (SMD) (1608)		JR036	1-216-864-11	SHORT CHIP	0
FB153	1-216-864-11	SHORT CHIP	0	JR037	1-216-864-11	SHORT CHIP	0
FB505	1-216-864-11	SHORT CHIP	0	JR042	1-216-864-11	SHORT CHIP	0
FB506	1-500-283-11	INDUCTOR, FERRITE BEAD		JR043	1-216-864-11	SHORT CHIP	0
FB507	1-500-283-11	INDUCTOR, FERRITE BEAD		JR044	1-216-864-11	SHORT CHIP	0
FB508	1-500-283-11	INDUCTOR, FERRITE BEAD		JR046	1-216-864-11	SHORT CHIP	0
FB509	1-500-283-11	INDUCTOR, FERRITE BEAD		JR047	1-216-864-11	SHORT CHIP	0
FB510	1-500-283-11	INDUCTOR, FERRITE BEAD		JR048	1-216-296-11	SHORT CHIP	0
FB512	1-500-283-11	INDUCTOR, FERRITE BEAD		JR049	1-216-864-11	SHORT CHIP	0
FB513	1-414-235-22	INDUCTOR, FERRITE BEAD		JR050	1-216-864-11	SHORT CHIP	0
FB514	1-414-235-22	INDUCTOR, FERRITE BEAD		JR051	1-216-864-11	SHORT CHIP	0
FB555	1-216-864-11	SHORT CHIP	0	JR055	1-216-296-11	SHORT CHIP	0
< IC >				JR056	1-216-296-11	SHORT CHIP	0
IC101	6-705-667-01	IC M61537FP-RF0G		JR057	1-216-296-11	SHORT CHIP	0
IC401	6-806-204-01	IC M30622MGP-A22FPU0		JR059	1-216-296-11	SHORT CHIP	0
IC402	6-701-680-01	IC PST3629NR		JR126	1-216-864-11	SHORT CHIP	0
IC403	6-707-095-01	IC BH2210FV-E2		JR152	1-216-296-11	SHORT CHIP	0
IC551	6-703-550-01	IC TA7809LS		JR153	1-216-296-11	SHORT CHIP	0
IC552	6-703-550-01	IC TA7809LS		JR176	1-216-864-11	SHORT CHIP	0
IC562	6-703-546-01	IC TA7804LS		JR228	1-216-864-11	SHORT CHIP	0
< JACK >				JR261	1-216-864-11	SHORT CHIP	0
J501	1-815-045-11	JACK, PIN 2P (AUDIO IN)		JR267	1-216-864-11	SHORT CHIP	0
J506	1-820-048-11	CONNECTOR (LIGHTING) (D-LIGHT SYNC OUT)		JR318	1-216-864-11	SHORT CHIP	0
< JUMPER RESISTOR >				JR381	1-216-864-11	SHORT CHIP	0
JR001	1-216-296-11	SHORT CHIP	0	JR467	1-216-864-11	SHORT CHIP	0
JR002	1-216-864-11	SHORT CHIP	0	JR480	1-216-864-11	SHORT CHIP	0
JR003	1-216-864-11	SHORT CHIP	0	JR481	1-216-864-11	SHORT CHIP	0
JR004	1-216-864-11	SHORT CHIP	0	JR487	1-216-864-11	SHORT CHIP	0
JR005	1-216-864-11	SHORT CHIP	0	JR550	1-216-864-11	SHORT CHIP	0
JR006	1-216-864-11	SHORT CHIP	0	JR555	1-216-864-11	SHORT CHIP	0
JR007	1-216-864-11	SHORT CHIP	0	< COIL >			
JR008	1-216-864-11	SHORT CHIP	0	L103	1-410-780-11	INDUCTOR	27mH
JR009	1-216-864-11	SHORT CHIP	0	L104	1-410-780-11	INDUCTOR	27mH
JR011	1-216-864-11	SHORT CHIP	0	L105	1-414-189-31	INDUCTOR	100uH
JR012	1-216-864-11	SHORT CHIP	0	< TRANSISTOR >			
JR013	1-216-296-11	SHORT CHIP	0	Q101	8-729-901-81	TRANSISTOR	2SC2412K-T-146-R
JR014	1-216-296-11	SHORT CHIP	0	Q103	8-729-802-80	TRANSISTOR	2SC3661
JR015	1-216-864-11	SHORT CHIP	0	Q104	8-729-802-80	TRANSISTOR	2SC3661
JR016	1-216-864-11	SHORT CHIP	0	Q105	8-729-802-80	TRANSISTOR	2SC3661
JR017	1-216-864-11	SHORT CHIP	0	Q106	8-729-802-80	TRANSISTOR	2SC3661
JR018	1-216-864-11	SHORT CHIP	0	Q107	8-729-216-22	TRANSISTOR	2SA1162-G
JR019	1-216-864-11	SHORT CHIP	0	Q108	8-729-027-43	TRANSISTOR	DTC114EKA-T146
JR020	1-216-864-11	SHORT CHIP	0	Q109	8-729-027-43	TRANSISTOR	DTC114EKA-T146
JR021	1-216-296-11	SHORT CHIP	0	Q110	8-729-027-23	TRANSISTOR	DTA114EKA-T146
JR022	1-216-864-11	SHORT CHIP	0	Q111	8-729-027-43	TRANSISTOR	DTC114EKA-T146
JR024	1-216-296-11	SHORT CHIP	0	Q112	8-729-141-75	TRANSISTOR	2SD596DV345
JR026	1-216-864-11	SHORT CHIP	0	Q113	6-550-185-01	TRANSISTOR	RT1P137P-TP-1
				Q114	8-729-027-43	TRANSISTOR	DTC114EKA-T146

HCD-GNX600

MAIN

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
Q118	8-729-903-46	TRANSISTOR 2SB1132-P		R126	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
Q119	8-729-027-43	TRANSISTOR DTC114EKA-T146		R127	1-216-830-11	METAL CHIP 5.6K 5%	1/10W
Q120	8-729-903-46	TRANSISTOR 2SB1132-P		R128	1-216-837-11	METAL CHIP 22K 5%	1/10W
Q121	8-729-027-43	TRANSISTOR DTC114EKA-T146		R129	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
Q122	8-729-903-46	TRANSISTOR 2SB1132-P		R130	1-216-841-11	METAL CHIP 47K 5%	1/10W
Q123	8-729-027-43	TRANSISTOR DTC114EKA-T146		R131	1-216-827-11	METAL CHIP 3.3K 5%	1/10W
Q125	8-729-802-80	TRANSISTOR 2SC3661		R133	1-216-857-11	METAL CHIP 1M 5%	1/10W
Q151	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R		R138	1-216-841-11	METAL CHIP 47K 5%	1/10W
Q153	8-729-802-80	TRANSISTOR 2SC3661		R139	1-216-864-11	SHORT CHIP 0	
Q154	8-729-802-80	TRANSISTOR 2SC3661		R140	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q155	8-729-802-80	TRANSISTOR 2SC3661		R141	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q166	8-729-802-80	TRANSISTOR 2SC3661		R142	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q175	8-729-802-80	TRANSISTOR 2SC3661		R143	1-216-827-11	METAL CHIP 3.3K 5%	1/10W
Q213	8-729-901-00	TRANSISTOR DTC124EK		R144	1-216-805-11	METAL CHIP 47 5%	1/10W
Q237	8-729-802-80	TRANSISTOR 2SC3661		R145	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q287	8-729-802-80	TRANSISTOR 2SC3661		R146	1-216-797-11	METAL CHIP 10 5%	1/10W
Q301	8-729-027-31	TRANSISTOR DTA124EKA-T146		R147	1-216-803-11	METAL CHIP 33 5%	1/10W
Q302	8-729-027-43	TRANSISTOR DTC114EKA-T146		R148	1-216-841-11	METAL CHIP 47K 5%	1/10W
Q303	8-729-027-31	TRANSISTOR DTA124EKA-T146		R149	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
Q304	8-729-027-43	TRANSISTOR DTC114EKA-T146		R150	1-216-841-11	METAL CHIP 47K 5%	1/10W
Q307	8-729-027-31	TRANSISTOR DTA124EKA-T146		R151	1-216-812-11	METAL CHIP 180 5%	1/10W
Q308	8-729-027-43	TRANSISTOR DTC114EKA-T146		R152	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
Q486	8-729-027-43	TRANSISTOR DTC114EKA-T146		R153	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q560	6-550-185-01	TRANSISTOR RT1P137P-TP-1		R155	1-216-841-11	METAL CHIP 47K 5%	1/10W
Q561	8-729-027-43	TRANSISTOR DTC114EKA-T146		R156	1-216-830-11	METAL CHIP 5.6K 5%	1/10W
Q580	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R		R157	1-216-836-11	METAL CHIP 18K 5%	1/10W
Q582	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R		R158	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
Q584	8-729-027-43	TRANSISTOR DTC114EKA-T146		R159	1-469-125-21	FERRITE, EMI (SMD) (1608)	
Q585	8-729-026-68	TRANSISTOR 2SD2525 (TP)		R160	1-216-851-11	METAL CHIP 330K 5%	1/10W
< RESISTOR >				R161	1-216-821-11	METAL CHIP 1K 5%	1/10W
R101	1-216-812-11	METAL CHIP 180 5%	1/10W	R162	1-216-833-11	METAL CHIP 10K 5%	1/10W
R102	1-216-825-11	METAL CHIP 2.2K 5%	1/10W	R163	1-216-833-11	METAL CHIP 10K 5%	1/10W
R103	1-216-833-11	METAL CHIP 10K 5%	1/10W	R164	1-216-864-11	SHORT CHIP 0	
R104	1-216-841-11	METAL CHIP 47K 5%	1/10W	R165	1-469-125-21	FERRITE, EMI (SMD) (1608)	
R105	1-216-841-11	METAL CHIP 47K 5%	1/10W	R166	1-216-833-11	METAL CHIP 10K 5%	1/10W
R106	1-216-830-11	METAL CHIP 5.6K 5%	1/10W	R167	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R107	1-216-829-11	METAL CHIP 4.7K 5%	1/10W	R168	1-216-835-11	METAL CHIP 15K 5%	1/10W
R108	1-216-825-11	METAL CHIP 2.2K 5%	1/10W	R169	1-216-817-11	METAL CHIP 470 5%	1/10W
R109	1-216-836-11	METAL CHIP 18K 5%	1/10W	R172	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R110	1-216-851-11	METAL CHIP 330K 5%	1/10W	R173	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R111	1-216-821-11	METAL CHIP 1K 5%	1/10W	R174	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R112	1-216-833-11	METAL CHIP 10K 5%	1/10W	R175	1-216-838-11	METAL CHIP 27K 5%	1/10W
R113	1-216-833-11	METAL CHIP 10K 5%	1/10W	R176	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R114	1-216-864-11	SHORT CHIP 0		R177	1-216-830-11	METAL CHIP 5.6K 5%	1/10W
R115	1-216-833-11	METAL CHIP 10K 5%	1/10W	R178	1-216-819-11	METAL CHIP 680 5%	1/10W
R116	1-216-833-11	METAL CHIP 10K 5%	1/10W	R179	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R117	1-216-825-11	METAL CHIP 2.2K 5%	1/10W	R180	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R118	1-216-835-11	METAL CHIP 15K 5%	1/10W	R181	1-216-819-11	METAL CHIP 680 5%	1/10W
R119	1-216-817-11	METAL CHIP 470 5%	1/10W	R182	1-216-827-11	METAL CHIP 3.3K 5%	1/10W
R120	1-216-829-11	METAL CHIP 4.7K 5%	1/10W	R183	1-216-827-11	METAL CHIP 3.3K 5%	1/10W
R121	1-216-827-11	METAL CHIP 3.3K 5%	1/10W	R184	1-216-827-11	METAL CHIP 3.3K 5%	1/10W
R122	1-216-825-11	METAL CHIP 2.2K 5%	1/10W	R186	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R123	1-216-825-11	METAL CHIP 2.2K 5%	1/10W	R188	1-216-841-11	METAL CHIP 47K 5%	1/10W
R124	1-216-825-11	METAL CHIP 2.2K 5%	1/10W	R189	1-216-864-11	SHORT CHIP 0	
R125	1-216-838-11	METAL CHIP 27K 5%	1/10W	R190	1-216-833-11	METAL CHIP 10K 5%	1/10W
				R191	1-216-817-11	METAL CHIP 470 5%	1/10W
				R192	1-216-817-11	METAL CHIP 470 5%	1/10W

Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
R193	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R374	1-216-833-11	METAL CHIP	10K	5%	1/10W
R194	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R385	1-216-833-11	METAL CHIP	10K	5%	1/10W
R195	1-216-857-11	METAL CHIP	1M	5%	1/10W	R393	1-216-819-11	METAL CHIP	680	5%	1/10W
R196	1-216-825-11	METAL CHIP	2.2K	5%	1/10W						(AR)
R197	1-216-819-11	METAL CHIP	680	5%	1/10W	R393	1-216-821-11	METAL CHIP	1K	5%	1/10W
											(E2, E51)
R198	1-469-125-21	FERRITE, EMI (SMD) (1608)				R393	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R199	1-469-125-21	FERRITE, EMI (SMD) (1608)									(E3, AUS)
R200	1-216-841-11	METAL CHIP	47K	5%	1/10W	R394	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R202	1-216-809-11	METAL CHIP	100	5%	1/10W	R395	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R203	1-216-809-11	METAL CHIP	100	5%	1/10W	R397	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
						R401	1-216-809-11	METAL CHIP	100	5%	1/10W
R204	1-216-809-11	METAL CHIP	100	5%	1/10W	R402	1-216-809-11	METAL CHIP	100	5%	1/10W
R205	1-216-809-11	METAL CHIP	100	5%	1/10W	R403	1-216-809-11	METAL CHIP	100	5%	1/10W
R207	1-216-809-11	METAL CHIP	100	5%	1/10W	R404	1-216-809-11	METAL CHIP	100	5%	1/10W
R209	1-216-809-11	METAL CHIP	100	5%	1/10W	R405	1-216-809-11	METAL CHIP	100	5%	1/10W
R210	1-216-809-11	METAL CHIP	100	5%	1/10W	R406	1-216-809-11	METAL CHIP	100	5%	1/10W
R212	1-216-809-11	METAL CHIP	100	5%	1/10W	R407	1-216-809-11	METAL CHIP	100	5%	1/10W
R214	1-216-864-11	SHORT CHIP	0			R411	1-216-851-11	METAL CHIP	330K	5%	1/10W
R215	1-216-821-11	METAL CHIP	1K	5%	1/10W	R412	1-216-845-11	METAL CHIP	100K	5%	1/10W
R216	1-216-813-11	METAL CHIP	220	5%	1/10W	R413	1-216-864-11	SHORT CHIP	0		
R220	1-216-809-11	METAL CHIP	100	5%	1/10W	R417	1-216-833-11	METAL CHIP	10K	5%	1/10W
R221	1-216-809-11	METAL CHIP	100	5%	1/10W	R419	1-216-809-11	METAL CHIP	100	5%	1/10W
R222	1-216-809-11	METAL CHIP	100	5%	1/10W	R420	1-216-821-11	METAL CHIP	1K	5%	1/10W
R224	1-216-809-11	METAL CHIP	100	5%	1/10W	R421	1-216-809-11	METAL CHIP	100	5%	1/10W
R225	1-216-839-11	METAL CHIP	33K	5%	1/10W	R422	1-216-809-11	METAL CHIP	100	5%	1/10W
R226	1-216-809-11	METAL CHIP	100	5%	1/10W	R423	1-216-809-11	METAL CHIP	100	5%	1/10W
R227	1-216-864-11	SHORT CHIP	0			R424	1-216-809-11	METAL CHIP	100	5%	1/10W
R230	1-216-809-11	METAL CHIP	100	5%	1/10W	R425	1-216-809-11	METAL CHIP	100	5%	1/10W
R231	1-216-841-11	METAL CHIP	47K	5%	1/10W	R426	1-216-809-11	METAL CHIP	100	5%	1/10W
R244	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R427	1-216-809-11	METAL CHIP	100	5%	1/10W
R245	1-216-841-11	METAL CHIP	47K	5%	1/10W	R428	1-216-809-11	METAL CHIP	100	5%	1/10W
R246	1-216-833-11	METAL CHIP	10K	5%	1/10W	R429	1-216-809-11	METAL CHIP	100	5%	1/10W
R267	1-216-864-11	SHORT CHIP	0			R430	1-216-809-11	METAL CHIP	100	5%	1/10W
R294	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R431	1-216-809-11	METAL CHIP	100	5%	1/10W
R295	1-216-841-11	METAL CHIP	47K	5%	1/10W	R432	1-216-809-11	METAL CHIP	100	5%	1/10W
R296	1-216-833-11	METAL CHIP	10K	5%	1/10W	R433	1-216-809-11	METAL CHIP	100	5%	1/10W
R301	1-216-833-11	METAL CHIP	10K	5%	1/10W	R435	1-216-809-11	METAL CHIP	100	5%	1/10W
R302	1-216-837-11	METAL CHIP	22K	5%	1/10W	R436	1-216-809-11	METAL CHIP	100	5%	1/10W
R303	1-216-845-11	METAL CHIP	100K	5%	1/10W	R437	1-216-809-11	METAL CHIP	100	5%	1/10W
R304	1-216-835-11	METAL CHIP	15K	5%	1/10W	R438	1-216-809-11	METAL CHIP	100	5%	1/10W
R305	1-216-843-11	METAL CHIP	68K	5%	1/10W	R439	1-216-809-11	METAL CHIP	100	5%	1/10W
R306	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R440	1-216-809-11	METAL CHIP	100	5%	1/10W
R308	1-216-853-11	METAL CHIP	470K	5%	1/10W	R441	1-216-809-11	METAL CHIP	100	5%	1/10W
R309	1-216-833-11	METAL CHIP	10K	5%	1/10W	R442	1-216-809-11	METAL CHIP	100	5%	1/10W
R310	1-216-835-11	METAL CHIP	15K	5%	1/10W	R443	1-216-809-11	METAL CHIP	100	5%	1/10W
R311	1-216-843-11	METAL CHIP	68K	5%	1/10W	R444	1-216-809-11	METAL CHIP	100	5%	1/10W
R312	1-216-853-11	METAL CHIP	470K	5%	1/10W	R445	1-216-809-11	METAL CHIP	100	5%	1/10W
R329	1-216-833-11	METAL CHIP	10K	5%	1/10W	R446	1-216-809-11	METAL CHIP	100	5%	1/10W
R330	1-216-833-11	METAL CHIP	10K	5%	1/10W	R447	1-216-809-11	METAL CHIP	100	5%	1/10W
R337	1-216-833-11	METAL CHIP	10K	5%	1/10W	R448	1-216-809-11	METAL CHIP	100	5%	1/10W
R338	1-216-833-11	METAL CHIP	10K	5%	1/10W	R449	1-216-809-11	METAL CHIP	100	5%	1/10W
R340	1-216-833-11	METAL CHIP	10K	5%	1/10W	R450	1-216-809-11	METAL CHIP	100	5%	1/10W
R341	1-216-833-11	METAL CHIP	10K	5%	1/10W	R451	1-216-809-11	METAL CHIP	100	5%	1/10W
R354	1-216-833-11	METAL CHIP	10K	5%	1/10W	R452	1-216-809-11	METAL CHIP	100	5%	1/10W
R355	1-216-833-11	METAL CHIP	10K	5%	1/10W	R453	1-216-809-11	METAL CHIP	100	5%	1/10W
R372	1-216-833-11	METAL CHIP	10K	5%	1/10W	R454	1-216-809-11	METAL CHIP	100	5%	1/10W
R373	1-216-833-11	METAL CHIP	10K	5%	1/10W						

HCD-GNX600

MAIN

MIC

Ref. No.	Part No.	Description	Remarks		
R455	1-216-809-11	METAL CHIP	100	5%	1/10W
R456	1-216-812-11	METAL CHIP	180	5%	1/10W
R457	1-216-809-11	METAL CHIP	100	5%	1/10W
R458	1-216-809-11	METAL CHIP	100	5%	1/10W
R459	1-216-809-11	METAL CHIP	100	5%	1/10W
R460	1-216-809-11	METAL CHIP	100	5%	1/10W
R461	1-216-809-11	METAL CHIP	100	5%	1/10W
R463	1-216-809-11	METAL CHIP	100	5%	1/10W
R465	1-216-809-11	METAL CHIP	100	5%	1/10W
R472	1-216-809-11	METAL CHIP	100	5%	1/10W
R473	1-216-809-11	METAL CHIP	100	5%	1/10W
R474	1-216-809-11	METAL CHIP	100	5%	1/10W
R476	1-216-809-11	METAL CHIP	100	5%	1/10W
R477	1-216-809-11	METAL CHIP	100	5%	1/10W
R478	1-216-809-11	METAL CHIP	100	5%	1/10W
R479	1-216-809-11	METAL CHIP	100	5%	1/10W
R482	1-216-809-11	METAL CHIP	100	5%	1/10W
R483	1-216-809-11	METAL CHIP	100	5%	1/10W
R484	1-216-809-11	METAL CHIP	100	5%	1/10W
R485	1-216-809-11	METAL CHIP	100	5%	1/10W
R486	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R488	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R489	1-216-809-11	METAL CHIP	100	5%	1/10W
R490	1-216-809-11	METAL CHIP	100	5%	1/10W
R491	1-216-809-11	METAL CHIP	100	5%	1/10W
R492	1-216-864-11	SHORT CHIP	0		
R493	1-216-815-11	METAL CHIP	330	5%	1/10W (E3)
R493	1-216-823-11	METAL CHIP	1.5K	5%	1/10W (AUS)
R493	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (E2, E51, AR)
R494	1-216-813-11	METAL CHIP	220	5%	1/10W
R495	1-216-813-11	METAL CHIP	220	5%	1/10W
R497	1-216-813-11	METAL CHIP	220	5%	1/10W
R500	1-216-809-11	METAL CHIP	100	5%	1/10W
⚠ R506	1-219-153-11	FUSIBLE	10	5%	1/4W
R508	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R509	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R524	1-216-821-11	METAL CHIP	1K	5%	1/10W
R525	1-216-845-11	METAL CHIP	100K	5%	1/10W
R531	1-216-833-11	METAL CHIP	10K	5%	1/10W
R532	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R560	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R563	1-216-821-11	METAL CHIP	1K	5%	1/10W
R574	1-216-821-11	METAL CHIP	1K	5%	1/10W
R575	1-216-845-11	METAL CHIP	100K	5%	1/10W
R576	1-216-841-11	METAL CHIP	47K	5%	1/10W
R577	1-216-845-11	METAL CHIP	100K	5%	1/10W
R578	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R579	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R580	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R581	1-216-833-11	METAL CHIP	10K	5%	1/10W
R582	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R583	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R584	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R585	1-216-833-11	METAL CHIP	10K	5%	1/10W
R586	1-216-830-11	METAL CHIP	5.6K	5%	1/10W

Ref. No.	Part No.	Description	Remarks		
R587	1-216-833-11	METAL CHIP	10K	5%	1/10W
R590	1-216-833-11	METAL CHIP	10K	5%	1/10W
R591	1-216-833-11	METAL CHIP	10K	5%	1/10W
R592	1-216-845-11	METAL CHIP	100K	5%	1/10W
R593	1-216-845-11	METAL CHIP	100K	5%	1/10W
< TRANSFORMER >					
T101	1-433-372-11	TRANSFORMER, BIAS OSCILLATION			
< VIBRATOR >					
X401	1-760-252-12	VIBRATOR, CRYSTAL (32.768kHz)			
X402	1-795-058-21	VIBRATOR, CERAMIC (5MHz)			

A-1167-713-A		MIC BOARD, COMPLETE			

< CAPACITOR >					
C1400	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1401	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C1403	1-109-864-91	CERAMIC CHIP	68PF	2%	50V
C1404	1-119-772-11	ELECT	47uF	20%	35V
C1405	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1406	1-124-589-11	ELECT	47uF	20%	16V
C1407	1-124-589-11	ELECT	47uF	20%	16V
C1408	1-126-163-11	ELECT	4.7uF	20%	50V
C1409	1-126-160-11	ELECT	1uF	20%	50V
C1410	1-126-160-11	ELECT	1uF	20%	50V
C1411	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1412	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1413	1-164-730-11	CERAMIC CHIP	0.0012uF	10%	50V
C1415	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C1416	1-128-131-11	ELECT	22uF	20%	50V
C1418	1-164-392-11	CERAMIC CHIP	390PF	5%	50V
C1419	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C1424	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C1427	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C1429	1-124-463-00	ELECT	0.1uF	20%	50V
C1430	1-124-463-00	ELECT	0.1uF	20%	50V
C1433	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1434	1-124-261-00	ELECT	10uF	20%	50V
C1435	1-126-176-11	ELECT	220uF	20%	10V
C1436	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C1437	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1458	1-126-163-11	ELECT	4.7uF	20%	50V
C1459	1-126-160-11	ELECT	1uF	20%	50V
C1460	1-126-160-11	ELECT	1uF	20%	50V
C1461	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1468	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C1479	1-126-163-11	ELECT	4.7uF	20%	50V
C1486	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C1487	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
< DIODE >					
D1400	8-719-069-54	DIODE UDZSTE-175.1B			

MIC	MOTOR(LD)	MOTOR(TB)	PANEL
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Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
		< IC >					
IC1400	6-709-116-01	IC TC9488FG		R1441	1-216-864-11	SHORT CHIP 0	
IC1401	8-759-710-97	IC NJM4565M-D		R1442	1-216-821-11	METAL CHIP 1K 5% 1/10W	
		< JACK >		R1443	1-216-821-11	METAL CHIP 1K 5% 1/10W	
J1400	1-817-629-11	JACK (LARGE TYPE) (MIC 1)		R1457	1-216-823-11	METAL CHIP 1.5K 5% 1/10W	
J1401	1-794-702-11	JACK, HEADPHONE (PHONES)		R1459	1-216-833-11	METAL CHIP 10K 5% 1/10W	
J1450	1-817-629-11	JACK (LARGE TYPE) (MIC 2)		R1460	1-216-821-11	METAL CHIP 1K 5% 1/10W	
		< JUMPER RESISTOR >		R1461	1-216-833-11	METAL CHIP 10K 5% 1/10W	
JR1401	1-216-864-11	SHORT CHIP 0		R1476	1-216-837-11	METAL CHIP 22K 5% 1/10W	
JR1403	1-216-296-11	SHORT CHIP 0		R1477	1-216-835-11	METAL CHIP 15K 5% 1/10W	
JR1417	1-216-864-11	SHORT CHIP 0		R1482	1-216-797-11	METAL CHIP 10 5% 1/10W	
JR1427	1-216-864-11	SHORT CHIP 0		R1483	1-216-797-11	METAL CHIP 10 5% 1/10W	
JR1433	1-216-864-11	SHORT CHIP 0		R1484	1-216-797-11	METAL CHIP 10 5% 1/10W	
JR1483	1-216-864-11	SHORT CHIP 0		R1485	1-216-797-11	METAL CHIP 10 5% 1/10W	
		< TRANSISTOR >		R1486	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
Q1400	8-729-802-80	TRANSISTOR 2SC3661		R1492	1-216-821-11	METAL CHIP 1K 5% 1/10W	
Q1401	8-729-802-80	TRANSISTOR 2SC3661		R1493	1-216-821-11	METAL CHIP 1K 5% 1/10W	
Q1450	8-729-802-80	TRANSISTOR 2SC3661				< VARIABLE RESISTOR >	
Q1451	8-729-802-80	TRANSISTOR 2SC3661		RV1400	1-223-983-11	RES, VAR, CARBON 50K (MIC 1 LEVEL)	
		< RESISTOR >		RV1401	1-223-983-11	RES, VAR, CARBON 50K (MIC 2 LEVEL)	
R1401	1-216-829-11	METAL CHIP 4.7K 5% 1/10W		RV1402	1-223-983-11	RES, VAR, CARBON 50K (ECHO LEVEL)	
R1402	1-216-809-11	METAL CHIP 100 5% 1/10W		*****			
R1403	1-216-809-11	METAL CHIP 100 5% 1/10W		1-687-133-12	MOTOR (LD) BOARD		
R1404	1-216-809-11	METAL CHIP 100 5% 1/10W		*****			
R1405	1-216-815-11	METAL CHIP 330 5% 1/10W		1-687-134-12	MOTOR (TB) BOARD		
R1406	1-216-815-11	METAL CHIP 330 5% 1/10W		*****			
R1407	1-216-823-11	METAL CHIP 1.5K 5% 1/10W		< CONNECTOR >			
R1409	1-216-833-11	METAL CHIP 10K 5% 1/10W		CN742	1-784-727-11	CONNECTOR, FFC 5P	
R1410	1-216-821-11	METAL CHIP 1K 5% 1/10W		*****			
R1411	1-216-833-11	METAL CHIP 10K 5% 1/10W		A-1167-711-A	PANEL BOARD, COMPLETE		
R1412	1-216-828-11	METAL CHIP 3.9K 5% 1/10W		*****			
R1413	1-218-867-11	METAL CHIP 6.8K 0.5% 1/10W		< CAPACITOR >			
R1414	1-216-834-11	METAL CHIP 12K 5% 1/10W		C1300	1-128-131-11	ELECT 22uF 20% 50V	
R1415	1-216-835-11	METAL CHIP 15K 5% 1/10W		C1301	1-162-995-11	CERAMIC CHIP 0.022uF 50V	
R1416	1-216-833-11	METAL CHIP 10K 5% 1/10W		C1302	1-162-974-11	CERAMIC CHIP 0.01uF 50V	
R1417	1-216-833-11	METAL CHIP 10K 5% 1/10W		C1304	1-126-969-11	ELECT 220uF 20% 50V	
R1418	1-216-821-11	METAL CHIP 1K 5% 1/10W		C1305	1-124-261-00	ELECT 10uF 20% 50V	
R1422	1-216-864-11	SHORT CHIP 0		C1306	1-162-974-11	CERAMIC CHIP 0.01uF 50V	
R1424	1-216-864-11	SHORT CHIP 0		C1307	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
R1425	1-216-833-11	METAL CHIP 10K 5% 1/10W		C1309	1-124-589-11	ELECT 47uF 20% 16V	
R1426	1-216-842-11	METAL CHIP 56K 5% 1/10W		C1310	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
R1427	1-216-837-11	METAL CHIP 22K 5% 1/10W		C1311	1-126-157-11	ELECT 10uF 20% 16V	
R1431	1-216-864-11	SHORT CHIP 0		C1312	1-115-416-11	CERAMIC CHIP 0.001uF 5% 25V	
R1432	1-216-797-11	METAL CHIP 10 5% 1/10W		C1313	1-115-416-11	CERAMIC CHIP 0.001uF 5% 25V	
R1433	1-216-797-11	METAL CHIP 10 5% 1/10W		C1314	1-115-416-11	CERAMIC CHIP 0.001uF 5% 25V	
R1434	1-216-797-11	METAL CHIP 10 5% 1/10W		C1315	1-115-416-11	CERAMIC CHIP 0.001uF 5% 25V	
R1435	1-216-797-11	METAL CHIP 10 5% 1/10W		C1316	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
R1436	1-216-829-11	METAL CHIP 4.7K 5% 1/10W		C1317	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
R1437	1-216-845-11	METAL CHIP 100K 5% 1/10W		C1318	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
R1438	1-216-864-11	SHORT CHIP 0		C1319	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
R1439	1-216-825-11	METAL CHIP 2.2K 5% 1/10W		C1320	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
R1440	1-216-826-11	METAL CHIP 2.7K 5% 1/10W		C1321	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	

HCD-GNX600

PANEL

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
C1322	1-162-927-11	CERAMIC CHIP 100PF 5% 50V		Q1315	8-729-027-56	TRANSISTOR DTC143TKA-T146	
C1323	1-162-927-11	CERAMIC CHIP 100PF 5% 50V		Q1316	8-729-027-56	TRANSISTOR DTC143TKA-T146	
C1324	1-162-927-11	CERAMIC CHIP 100PF 5% 50V		< RESISTOR >			
C1325	1-162-927-11	CERAMIC CHIP 100PF 5% 50V		R1300	1-216-827-11	METAL CHIP 3.3K 5% 1/10W	
C1326	1-162-927-11	CERAMIC CHIP 100PF 5% 50V		R1301	1-216-837-11	METAL CHIP 22K 5% 1/10W	
C1327	1-162-927-11	CERAMIC CHIP 100PF 5% 50V		R1302	1-216-837-11	METAL CHIP 22K 5% 1/10W	
C1328	1-162-927-11	CERAMIC CHIP 100PF 5% 50V		R1303	1-216-809-11	METAL CHIP 100 5% 1/10W	
C1329	1-162-927-11	CERAMIC CHIP 100PF 5% 50V		R1304	1-216-809-11	METAL CHIP 100 5% 1/10W	
C1330	1-162-927-11	CERAMIC CHIP 100PF 5% 50V		R1305	1-215-871-11	METAL OXIDE 2.2K 5% 1W	
C1331	1-162-927-11	CERAMIC CHIP 100PF 5% 50V		R1307	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
C1357	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		R1308	1-216-821-11	METAL CHIP 1K 5% 1/10W	
< CONNECTOR >				R1311	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
CN1402	1-784-747-11	CONNECTOR, FFC 25P		R1313	1-216-814-11	METAL CHIP 270 5% 1/10W	
CN1452	1-785-337-11	PIN, CONNECTOR (LIGHT ANGLE) 11P		R1314	1-216-864-11	SHORT CHIP 0	
CN1453	1-818-282-11	PIN, CONNECTOR (FOR PWB) 3P		R1317	1-216-833-11	METAL CHIP 10K 5% 1/10W	
< DIODE >				R1318	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
D1300	6-501-193-01	DIODE 1SS355WTE-17		R1319	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
D1301	6-501-193-01	DIODE 1SS355WTE-17		R1320	1-216-823-11	METAL CHIP 1.5K 5% 1/10W	
D1302	6-501-193-01	DIODE 1SS355WTE-17		R1321	1-216-821-11	METAL CHIP 1K 5% 1/10W	
D1303	6-501-193-01	DIODE 1SS355WTE-17		R1322	1-216-819-11	METAL CHIP 680 5% 1/10W	
D1304	6-500-809-01	DIODE SELU5223C-STP15 (I/⏻)		R1323	1-216-817-11	METAL CHIP 470 5% 1/10W	
D1305	8-719-059-18	DIODE RD6.2FM-T1		R1324	1-216-815-11	METAL CHIP 330 5% 1/10W	
D1306	6-501-193-01	DIODE 1SS355WTE-17		R1325	1-216-815-11	METAL CHIP 330 5% 1/10W	
D1313	6-501-228-01	DIODE SELU5420E-STP15 (SUB WOOFER ON/OFF)		R1326	1-216-817-11	METAL CHIP 470 5% 1/10W	
D1314	6-501-193-01	DIODE 1SS355WTE-17		R1327	1-216-819-11	METAL CHIP 680 5% 1/10W	
< FLUORESCENT INDICATOR >				R1328	1-216-821-11	METAL CHIP 1K 5% 1/10W	
FL1300	1-519-859-11	VACUUM FLUORESCENT DISPLAYS		R1330	1-216-815-11	METAL CHIP 330 5% 1/10W	
< IC >				R1331	1-216-817-11	METAL CHIP 470 5% 1/10W	
IC1300	6-709-115-11	IC NJU3427FA2		R1332	1-216-819-11	METAL CHIP 680 5% 1/10W	
< JUMPER RESISTOR >				R1345	1-216-809-11	METAL CHIP 100 5% 1/10W	
JR1305	1-216-864-11	SHORT CHIP 0		R1346	1-216-821-11	METAL CHIP 1K 5% 1/10W	
< COIL >				R1347	1-216-817-11	METAL CHIP 470 5% 1/10W	
L1300	1-410-671-31	INDUCTOR 47uH		R1348	1-216-821-11	METAL CHIP 1K 5% 1/10W	
< TRANSISTOR >				R1351	1-216-809-11	METAL CHIP 100 5% 1/10W	
Q1300	6-550-065-01	TRANSISTOR CPH5504-TL-E		R1352	1-216-809-11	METAL CHIP 100 5% 1/10W	
Q1303	8-729-903-46	TRANSISTOR 2SB1132-P		R1353	1-216-809-11	METAL CHIP 100 5% 1/10W	
Q1304	8-729-903-46	TRANSISTOR 2SB1132-P		R1355	1-216-809-11	METAL CHIP 100 5% 1/10W	
Q1305	8-729-027-50	TRANSISTOR DTC123JKA-T146		R1356	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
Q1306	8-729-027-50	TRANSISTOR DTC123JKA-T146		R1357	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
Q1307	8-729-027-50	TRANSISTOR DTC123JKA-T146		R1358	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
Q1308	8-729-027-43	TRANSISTOR DTC114EKA-T146		R1359	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
Q1309	8-729-027-50	TRANSISTOR DTC123JKA-T146		R1360	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
Q1310	8-729-027-43	TRANSISTOR DTC114EKA-T146		R1361	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
Q1311	8-729-027-56	TRANSISTOR DTC143TKA-T146		< SWITCH >			
Q1312	8-729-027-56	TRANSISTOR DTC143TKA-T146		S1300	1-762-875-21	SWITCH, KEYBOARD (DISPLAY)	
Q1313	8-729-027-56	TRANSISTOR DTC143TKA-T146		S1301	1-762-875-21	SWITCH, KEYBOARD (I/⏻)	
Q1314	8-729-027-56	TRANSISTOR DTC143TKA-T146		S1302	1-762-875-21	SWITCH, KEYBOARD (SUB WOOFER ON/OFF)	
				S1307	1-762-875-21	SWITCH, KEYBOARD (TV)	
				S1309	1-762-875-21	SWITCH, KEYBOARD (TAPE A/B)	
				S1310	1-762-875-21	SWITCH, KEYBOARD (■)	
				S1311	1-762-875-21	SWITCH, KEYBOARD (▶)	
				S1312	1-762-875-21	SWITCH, KEYBOARD (DISC SKIP, EX-CHANGE)	
				S1313	1-762-875-21	SWITCH, KEYBOARD (DISC 3)	
				S1314	1-762-875-21	SWITCH, KEYBOARD (DISC 2)	
				S1315	1-762-875-21	SWITCH, KEYBOARD (DISC 1)	

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
S1316	1-762-875-21	SWITCH, KEYBOARD (▲ OPEN/CLOSE)		C1148	1-162-979-11	CERAMIC CHIP 0.0027uF 10%	50V
S1317	1-762-875-21	SWITCH, KEYBOARD (■)		C1149	1-104-663-11	ELECT 33uF 20%	25V
S1320	1-762-875-21	SWITCH, KEYBOARD (DIRECTION)		C1200	1-165-136-11	CERAMIC 3300PF 10%	500V
S1321	1-762-875-21	SWITCH, KEYBOARD (ILLUMINATION/SUB WOOFER LEVEL)		△C1202	1-107-444-11	CERAMIC 100PF 5%	2KV
				△C1203	1-100-566-91	CERAMIC CHIP 0.1uF 10%	25V
S1322	1-762-875-21	SWITCH, KEYBOARD (TUNER/BAND)		△C1206	1-162-923-11	CERAMIC CHIP 47PF 5%	50V
S1323	1-762-875-21	SWITCH, KEYBOARD (CD)		△C1207	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
S1324	1-762-875-21	SWITCH, KEYBOARD (CD SYNC)		△C1208	1-162-969-11	CERAMIC CHIP 0.0068uF 10%	25V
S1325	1-762-875-21	SWITCH, KEYBOARD (ALBUM- ◀◀)		△C1209	1-104-665-11	ELECT 100uF 20%	25V
S1326	1-762-875-21	SWITCH, KEYBOARD (ALBUM+ ▶▶)		△C1210	1-126-965-11	ELECT 22uF 20%	50V
S1327	1-762-875-21	SWITCH, KEYBOARD (REC PAUSE/START)		△C1212	1-112-868-11	CERAMIC 330PF 10%	125V
< TRANSFORMER >				C1213	1-135-372-11	ELECT 470uF 20%	10V
T1300	1-443-894-11	DC/DC CONVERTER TRANSFORMER		C1214	1-100-566-91	CERAMIC CHIP 0.1uF 10%	25V
*****				C1216	1-128-951-21	ELECT 2200uF 20%	16V
A-1167-594-A		POWER BOARD, COMPLETE (E2, E3, E51)		C1217	1-100-566-91	CERAMIC CHIP 0.1uF 10%	25V
A-1183-818-A		POWER BOARD, COMPLETE (AUS)		C1218	1-100-566-91	CERAMIC CHIP 0.1uF 10%	25V
A-1183-905-A		POWER BOARD, COMPLETE (AR)		C1219	1-100-566-91	CERAMIC CHIP 0.1uF 10%	25V
*****				C1221	1-126-935-11	ELECT 470uF 20%	16V
1-533-313-11		FUSE HOLDER		C1222	1-126-964-11	ELECT 10uF 20%	50V
< CAPACITOR >				< CONNECTOR >			
△C1101	1-165-529-11	MYLAR 0.22uF 10	275V	* CN1101	1-564-243-11	PIN, CONNECTOR (3.96mm PITCH) 6P	
△C1107	1-165-529-11	MYLAR 0.22uF 10	275V	* CN1200	1-564-510-11	PLUG, CONNECTOR 7P	
△C1109	1-112-868-11	CERAMIC 330PF 10%	125V	CNP1100	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P	
△C1110	1-112-868-11	CERAMIC 330PF 10%	125V	< DIODE >			
△C1112	1-112-529-11	ELECT (BLOCK) 390uF 20%	450V (AR,AUS)	△D1100	8-719-082-57	DIODE D5SBA60F01	
△C1112	1-114-206-11	ELECT (BLOCK) 680uF 20%	220V (E2, E3, E51)	△D1101	6-501-496-01	DIODE R4KLB-LF015-303 (E2, E3, E51)	
△C1113	1-114-206-11	ELECT (BLOCK) 680uF 20%	220V (E2, E3, E51)	△D1102	6-501-496-01	DIODE R4KLB-LF015-303 (E2, E3, E51)	
△C1115	1-112-867-11	CERAMIC 220PF 10%	125V	△D1103	6-500-241-01	DIODE SARS03	
C1116	1-117-370-11	CERAMIC CHIP 10uF	10V	△D1106	8-719-030-33	DIODE EG01CV1	
△C1117	1-112-335-91	FILM 0.0033uF 5%	400V	△D1107	8-719-947-79	DIODE MTZJ-T-72-22D	
△C1118	1-112-841-11	CAP, METALIZED PP FILM 820PF		△D1108	8-719-947-79	DIODE MTZJ-T-72-22D	
△C1119	1-100-566-91	CERAMIC CHIP 0.1uF 10%	25V	△D1109	8-719-947-79	DIODE MTZJ-T-72-22D	
△C1120	1-162-925-11	CERAMIC CHIP 68PF 5%	50V	△D1110	8-719-063-74	DIODE D1NL20U-TR2	
△C1121	1-126-949-11	ELECT 220uF 20%	35V	△D1111	8-719-083-52	DIODE UDZSTE-1716B	
△C1122	1-162-967-11	CERAMIC CHIP 0.0033uF 10%	50V	△D1112	8-719-063-74	DIODE D1NL20U-TR2	
C1123	1-136-203-11	MYLAR 0.01uF 5%	630V	D1113	6-501-398-01	DIODE FCH20A20	
C1124	1-100-623-91	CERAMIC CHIP 0.1uF 10%	100V	D1114	6-501-411-01	DIODE SF20NC15M	
C1125	1-165-761-21	ELECT 1200uF 20%	63V	D1115	8-719-069-54	DIODE UDZSTE-175.1B	
C1126	1-165-761-21	ELECT 1200uF 20%	63V	D1116	8-719-080-53	DIODE RK36LF-B3	
C1127	1-165-744-11	ELECT 1200uF 20%	35V	D1117	8-719-947-79	DIODE MTZJ-T-72-22D	
C1129	1-100-566-91	CERAMIC CHIP 0.1uF 10%	25V	△D1118	6-500-593-41	DIODE 10EDB60-TA2B5	
C1130	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V	△D1119	8-719-063-74	DIODE D1NL20U-TR2	
C1131	1-164-362-11	CERAMIC CHIP 470PF 5%	50V	D1120	8-719-069-54	DIODE UDZSTE-175.1B	
C1134	1-131-976-11	ELECT 820uF 20%	25V	D1122	8-719-071-94	DIODE HRU0103ATRF	
C1135	1-128-555-11	ELECT 470uF 20%	63V	△D1200	6-500-849-01	DIODE ERA22-08KFLB	
C1136	1-128-555-11	ELECT 470uF 20%	63V	△D1202	8-719-063-74	DIODE D1NL20U-TR2	
C1137	1-100-623-91	CERAMIC CHIP 0.1uF 10%	100V	△D1203	8-719-947-79	DIODE MTZJ-T-72-22D	
C1138	1-126-935-11	ELECT 470uF 20%	16V	△D1204	8-719-063-74	DIODE D1NL20U-TR2	
C1139	1-100-566-91	CERAMIC CHIP 0.1uF 10%	25V	△D1205	8-719-947-79	DIODE MTZJ-T-72-22D	
C1140	1-115-339-11	CERAMIC CHIP 0.1uF 10%	50V	△D1206	8-719-947-79	DIODE MTZJ-T-72-22D	
C1147	1-128-551-11	ELECT 22uF 20%	63V	△D1207	8-719-063-74	DIODE D1NL20U-TR2	
				△D1208	8-719-083-61	DIODE UDZSTE-1711B	
				△D1211	8-719-063-74	DIODE D1NL20U-TR2	
				D1212	6-501-412-01	DIODE SF5S6	

HCD-GNX600

POWER

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
D1213	8-719-080-53	DIODE RK36LF-B3		< RESISTOR >			
△ D1214	8-719-921-40	DIODE MTZJ-4.7C		△ R1103	1-220-886-11	FUSIBLE 0.1	10% 1W
D1215	8-719-947-79	DIODE MTZJ-T-72-22D		△ R1105	1-215-929-11	METAL OXIDE 100K	5% 3W
< EARTH TERMINAL >				△ R1106	1-215-929-11	METAL OXIDE 100K	5% 3W
* EP1100	1-537-738-21	TERMINAL, EARTH		△ R1108	1-216-343-00	METAL OXIDE 0.33	5% 1W
* EP1101	1-537-738-21	TERMINAL, EARTH		△ R1109	1-243-665-11	METAL 0.05	5% 5W
* EP1102	1-537-738-21	TERMINAL, EARTH		△ R1110	1-216-835-11	METAL CHIP 15K	5% 1/10W
* EP1103	1-537-738-21	TERMINAL, EARTH		△ R1111	1-216-838-11	METAL CHIP 27K	5% 1/10W
* EP1104	1-537-738-21	TERMINAL, EARTH		△ R1112	1-216-841-11	METAL CHIP 47K	5% 1/10W
* EP1105	1-537-738-21	TERMINAL, EARTH		△ R1113	1-249-389-11	CARBON 4.7	5% 1/4W
* EP1106	1-537-738-21	TERMINAL, EARTH		△ R1114	1-216-837-11	METAL CHIP 22K	5% 1/10W
* EP1200	1-537-738-21	TERMINAL, EARTH		△ R1115	1-216-829-11	METAL CHIP 4.7K	5% 1/10W
< IC >				△ R1116	1-216-864-11	SHORT CHIP 0	
△ IC1100	6-709-168-01	IC MR5060		R1117	1-218-859-11	METAL CHIP 3.3K	0.5% 1/10W
IC1101	6-707-743-01	IC TA76L431S (TPE6, Q)		△ R1118	1-246-097-31	METAL OXIDE 1	5% 2W
IC1102	6-701-021-01	IC SI-8120JF		△ R1120	1-219-769-11	METAL 3.3M	5% 1/2W
△ IC1200	6-707-962-01	IC MR1722		R1121	1-218-867-11	METAL CHIP 6.8K	0.5% 1/10W
IC1201	6-707-743-01	IC TA76L431S (TPE6, Q)		R1122	1-218-855-11	METAL CHIP 2.2K	0.5% 1/10W
< JUMPER RESISTOR >				R1123	1-218-861-11	METAL CHIP 3.9K	0.5% 1/10W
JR1101	1-216-864-11	SHORT CHIP 0		R1124	1-218-889-11	METAL CHIP 56K	0.5% 1/10W
JR1103	1-216-864-11	SHORT CHIP 0		R1126	1-216-864-11	SHORT CHIP 0	
JR1105	1-216-864-11	SHORT CHIP 0		R1127	1-216-841-11	METAL CHIP 47K	5% 1/10W
JR1106	1-216-296-11	SHORT CHIP 0		R1128	1-218-853-11	METAL CHIP 1.8K	0.5% 1/10W
JR1107	1-216-296-11	SHORT CHIP 0		R1129	1-218-867-11	METAL CHIP 6.8K	0.5% 1/10W
△ JR1108	1-216-296-11	SHORT CHIP 0		R1130	1-218-867-11	METAL CHIP 6.8K	0.5% 1/10W
< COIL >				R1131	1-216-833-11	METAL CHIP 10K	5% 1/10W
L1100	1-457-058-21	COIL, CHOKE 10uH		R1132	1-216-833-11	METAL CHIP 10K	5% 1/10W
L1102	1-456-545-11	INDUCTOR 100uH		R1133	1-216-833-11	METAL CHIP 10K	5% 1/10W
L1200	1-410-470-11	INDUCTOR 10uH		R1135	1-216-864-11	SHORT CHIP 0	
L1201	1-456-545-11	INDUCTOR 100uH		R1136	1-216-864-11	SHORT CHIP 0	
< LINE FILTER >				△ R1137	1-247-895-00	CARBON 470K	5% 1/4W
△ LF1100	1-457-268-11	LINE FILTER COIL (AUS)		△ R1138	1-247-895-00	CARBON 470K	5% 1/4W
△ LF1101	1-457-268-11	LINE FILTER COIL		R1139	1-216-833-11	METAL CHIP 10K	5% 1/10W
< PHOTO COUPLER >				R1140	1-216-821-11	METAL CHIP 1K	5% 1/10W
△ PC1100	6-600-438-01	IC TLP421F (D4-GR)		△ R1141	1-216-831-11	METAL CHIP 6.8K	5% 1/10W
△ PC1101	6-600-438-01	IC TLP421F (D4-GR)		△ R1142	1-216-841-11	METAL CHIP 47K	5% 1/10W
△ PC1102	6-600-438-01	IC TLP421F (D4-GR)		R1144	1-216-833-11	METAL CHIP 10K	5% 1/10W
△ PC1200	6-600-438-01	IC TLP421F (D4-GR)		R1145	1-216-809-11	METAL CHIP 100	5% 1/10W
< TRANSISTOR >				R1146	1-218-867-11	METAL CHIP 6.8K	0.5% 1/10W
Q1100	8-729-271-31	TRANSISTOR 2SC2713-G		△ R1200	1-215-904-61	METAL OXIDE 100K	5% 2W
Q1101	8-729-271-31	TRANSISTOR 2SC2713-G		△ R1201	1-249-478-11	CARBON 2.2	5% 1/2W
△ Q1102	8-729-271-31	TRANSISTOR 2SC2713-G		△ R1202	1-216-839-11	METAL CHIP 33K	5% 1/10W
△ Q1200	8-729-271-31	TRANSISTOR 2SC2713-G		△ R1203	1-249-393-11	CARBON 10	5% 1/4W
Q1203	6-551-460-01	TRANSISTOR RSR25P03TL		△ R1207	1-216-829-11	METAL CHIP 4.7K	5% 1/10W
Q1204	8-729-271-31	TRANSISTOR 2SC2713-G		△ R1208	1-216-834-11	METAL CHIP 12K	5% 1/10W
Q1205	8-729-271-31	TRANSISTOR 2SC2713-G		△ R1209	1-216-825-11	METAL CHIP 2.2K	5% 1/10W
Q1206	6-551-460-01	TRANSISTOR RSR25P03TL		△ R1210	1-216-835-11	METAL CHIP 15K	5% 1/10W
				△ R1211	1-216-821-11	METAL CHIP 1K	5% 1/10W
				R1212	1-216-833-11	METAL CHIP 10K	5% 1/10W
				△ R1214	1-249-381-11	CARBON 1	5% 1/4W
				R1215	1-216-821-11	METAL CHIP 1K	5% 1/10W
				R1216	1-216-813-11	METAL CHIP 220	5% 1/10W
				R1217	1-216-841-11	METAL CHIP 47K	5% 1/10W
				R1218	1-218-867-11	METAL CHIP 6.8K	0.5% 1/10W
				R1219	1-218-855-11	METAL CHIP 2.2K	0.5% 1/10W
				R1220	1-218-831-11	METAL CHIP 220	0.5% 1/10W

POWER	SENSOR	SMASTER
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Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
R1221	1-218-861-11	METAL CHIP	3.9K	0.5%	1/10W	C524	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
△ R1223	1-216-833-11	METAL CHIP	10K	5%	1/10W						
△ R1224	1-216-843-11	METAL CHIP	68K	5%	1/10W	C525	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
R1225	1-216-809-11	METAL CHIP	100	5%	1/10W	C526	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
						C527	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
R1226	1-216-857-11	METAL CHIP	1M	5%	1/10W	C528	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
R1227	1-216-845-11	METAL CHIP	100K	5%	1/10W						
R1228	1-216-815-11	METAL CHIP	330	5%	1/10W	C529	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
R1229	1-216-833-11	METAL CHIP	10K	5%	1/10W	C531	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
R1230	1-216-821-11	METAL CHIP	1K	5%	1/10W	C532	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
						C533	1-104-662-91	ELECT	22uF	20%	25V
△ R1231	1-215-866-11	METAL OXIDE	330	5%	1W	C534	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
R1232	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R1233	1-216-833-11	METAL CHIP	10K	5%	1/10W	C535	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
R1234	1-216-841-11	METAL CHIP	47K	5%	1/10W	C536	1-100-436-91	CERAMIC CHIP	0.033uF	10%	25V
		< SWITCH >				C537	1-100-623-91	CERAMIC CHIP	0.1uF	10%	100V
△ SW1100	1-762-753-11	SWITCH, VOLTAGE SELECTION (VOLTAGE SELECTOR) (E2,E3,E51)				C538	1-114-119-31	ELECT	120uF	20%	63V
		< TRANSFORMER >				C544	1-100-623-91	CERAMIC CHIP	0.1uF	10%	100V
						C545	1-114-119-31	ELECT	120uF	20%	63V
△ T1100	1-443-893-11	POWER TRANSFORMER				C547	1-100-436-91	CERAMIC CHIP	0.033uF	10%	25V
△ T1200	1-443-895-11	POWER TRANSFORMER				C548	1-100-623-91	CERAMIC CHIP	0.1uF	10%	100V
		< THERMISTOR >				C549	1-135-632-51	ELECT	2200uF	20%	63V
△ TH1100	1-805-841-21	THERMISTOR, NTC 3.0				C551	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
		< VARISTOR >				C552	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
△ VD1100	1-805-482-11	VARISTOR				C553	1-124-248-00	ELECT	22uF	20%	25V
*****						C554	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
	1-687-132-12	SENSOR BOARD				C555	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
		*****				C556	1-100-436-91	CERAMIC CHIP	0.033uF	10%	25V
		< CONNECTOR >				C557	1-100-623-91	CERAMIC CHIP	0.1uF	10%	100V
CN731	1-785-329-21	PIN, CONNECTOR (LIGHT ANGLE) 3P				C558	1-114-119-31	ELECT	120uF	20%	63V
		< IC >				C564	1-100-623-91	CERAMIC CHIP	0.1uF	10%	100V
IC731	6-600-022-01	IC RPI-576				C565	1-114-119-31	ELECT	120uF	20%	63V
*****						C567	1-100-436-91	CERAMIC CHIP	0.033uF	10%	25V
	A-1164-113-A	SMASTER BOARD, COMPLETE				C568	1-100-623-91	CERAMIC CHIP	0.1uF	10%	100V
		*****				C569	1-135-632-51	ELECT	2200uF	20%	63V
		< CAPACITOR >				C574	1-114-160-91	CHIP CERAMIC	1uF	10%	100V
C504	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C575	1-114-160-91	CHIP CERAMIC	1uF	10%	100V
C505	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C576	1-114-160-91	CHIP CERAMIC	1uF	10%	100V
C506	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V						
C507	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C577	1-114-160-91	CHIP CERAMIC	1uF	10%	100V
C508	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C578	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C509	1-104-658-91	ELECT	100uF	20%	10V	C579	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C510	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C580	1-135-618-11	MYLAR	1uF	5%	63V
C511	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C581	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C512	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V						
C513	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C582	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C520	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C583	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C521	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C584	1-135-618-11	MYLAR	1uF	5%	63V
C522	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C585	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C523	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C586	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
						C587	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
						C590	1-135-618-11	MYLAR	1uF	5%	63V
						C591	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
						C592	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
						C593	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
						C594	1-135-618-11	MYLAR	1uF	5%	63V
						C595	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
						C596	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
						C597	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
						C604	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
						C605	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V

HCD-GNX600

SMASTER

Ref. No.	Part No.	Description			Remarks
C606	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C607	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C608	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C609	1-104-658-91	ELECT	100uF	20%	10V
C610	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C611	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C612	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C613	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C620	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C621	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C622	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C623	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C626	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C629	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C651	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C652	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C653	1-104-662-91	ELECT	22uF	20%	25V
C654	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C655	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C656	1-100-436-91	CERAMIC CHIP	0.033uF	10%	25V
C657	1-100-623-91	CERAMIC CHIP	0.1uF	10%	100V
C658	1-114-119-31	ELECT	120uF	20%	63V
C664	1-100-623-91	CERAMIC CHIP	0.1uF	10%	100V
C665	1-114-119-31	ELECT	120uF	20%	63V
C667	1-100-436-91	CERAMIC CHIP	0.033uF	10%	25V
C668	1-100-623-91	CERAMIC CHIP	0.1uF	10%	100V
C669	1-135-632-51	ELECT	2200uF	20%	63V
C676	1-114-160-91	CHIP CERAMIC	1uF	10%	100V
C677	1-114-160-91	CHIP CERAMIC	1uF	10%	100V
C690	1-135-618-11	MYLAR	1uF	5%	63V
C691	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C692	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C693	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C694	1-135-618-11	MYLAR	1uF	5%	63V
C695	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C696	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C697	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C800	1-124-248-00	ELECT	22uF	20%	25V
C801	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C802	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V
C803	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C804	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C805	1-104-658-91	ELECT	100uF	20%	10V
C806	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C809	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C810	1-104-658-91	ELECT	100uF	20%	10V
C811	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C830	1-126-964-11	ELECT	10uF	20%	50V
C840	1-164-337-11	CERAMIC CHIP	2.2uF		16V
C850	1-117-370-11	CERAMIC CHIP	10uF		10V
C855	1-117-370-11	CERAMIC CHIP	10uF		10V
C865	1-117-370-11	CERAMIC CHIP	10uF		10V
C871	1-216-864-11	SHORT CHIP	0		
C872	1-216-864-11	SHORT CHIP	0		
C873	1-216-864-11	SHORT CHIP	0		
C876	1-216-864-11	SHORT CHIP	0		
C877	1-216-864-11	SHORT CHIP	0		
C878	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V

Ref. No.	Part No.	Description			Remarks
C879	1-216-864-11	SHORT CHIP	0		
C880	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C881	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C882	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C883	1-126-925-91	ELECT	470uF	20%	10V
C884	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C885	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C886	1-126-935-11	ELECT	470uF	20%	16V
C887	1-126-925-91	ELECT	470uF	20%	10V
C888	1-119-774-11	ELECT	100uF	20%	16V
C889	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C890	1-119-774-11	ELECT	100uF	20%	16V
C891	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C892	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
< CONNECTOR >					
CN500	1-784-780-11	CONNECTOR, FFC 19P			
* CN501	1-564-712-11	PIN, CONNECTOR (SMALL TYPE) 10P			
* CN502	1-564-243-11	PIN, CONNECTOR (3.96mm PITCH) 6P			
CN503	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P			
< DIODE >					
D533	6-501-484-01	DIODE P6SMB62AT3			
D534	6-501-484-01	DIODE P6SMB62AT3			
D535	6-501-485-01	DIODE EC10UA20			
D536	6-501-485-01	DIODE EC10UA20			
D553	6-501-484-01	DIODE P6SMB62AT3			
D554	6-501-484-01	DIODE P6SMB62AT3			
D555	6-501-485-01	DIODE EC10UA20			
D556	6-501-485-01	DIODE EC10UA20			
D653	6-501-484-01	DIODE P6SMB62AT3			
D654	6-501-484-01	DIODE P6SMB62AT3			
D655	6-501-485-01	DIODE EC10UA20			
D656	6-501-485-01	DIODE EC10UA20			
D820	8-719-988-61	DIODE 1SS355TE-17			
D880	1-216-295-91	SHORT CHIP	0		
D881	1-216-295-91	SHORT CHIP	0		
D882	1-216-295-91	SHORT CHIP	0		
D883	1-216-295-91	SHORT CHIP	0		
D884	1-216-295-91	SHORT CHIP	0		
D885	1-216-295-91	SHORT CHIP	0		
D888	1-216-295-91	SHORT CHIP	0		
D889	1-216-295-91	SHORT CHIP	0		
D890	1-216-295-91	SHORT CHIP	0		
D891	1-216-295-91	SHORT CHIP	0		
D892	8-719-988-61	DIODE 1SS355TE-17			
D893	8-719-988-61	DIODE 1SS355TE-17			
D895	1-216-295-91	SHORT CHIP	0		
D896	1-216-295-91	SHORT CHIP	0		
< EARTH TERMINAL >					
EP880	1-537-738-21	TERMINAL, GROUND			
EP881	1-537-738-21	TERMINAL, GROUND			
EP882	1-537-738-21	TERMINAL, GROUND			
EP884	1-537-738-21	TERMINAL, GROUND			
EP885	1-537-738-21	TERMINAL, GROUND			

SMASTER

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
EP886	1-537-738-21	TERMINAL, GROUND		R517	1-216-809-11	METAL CHIP 100	5% 1/10W
		< FERRITE BEAD >		R519	1-216-821-11	METAL CHIP 1K	5% 1/10W
FB800	1-216-864-11	SHORT CHIP 0		R520	1-216-821-11	METAL CHIP 1K	5% 1/10W
FB801	1-216-864-11	SHORT CHIP 0		R521	1-216-821-11	METAL CHIP 1K	5% 1/10W
FB881	1-216-295-91	SHORT CHIP 0		R523	1-216-864-11	SHORT CHIP 0	
		< FILTER >		R524	1-216-864-11	SHORT CHIP 0	
				R526	1-216-864-11	SHORT CHIP 0	
FL800	1-234-177-21	FILTER, CHIP EMI		R529	1-216-864-11	SHORT CHIP 0	
FL801	1-234-177-21	FILTER, CHIP EMI		R530	1-216-797-11	METAL CHIP 10	5% 1/10W
FL810	1-234-177-21	FILTER, CHIP EMI		R531	1-216-809-11	METAL CHIP 100	5% 1/10W
		< IC >		R532	1-216-821-11	METAL CHIP 1K	5% 1/10W
				R533	1-216-809-11	METAL CHIP 100	5% 1/10W
IC500	6-707-939-01	IC CXD9843AR		R535	1-216-839-11	METAL CHIP 33K	5% 1/10W
IC530	6-709-087-01	IC CXD9879M		R541	1-216-797-11	METAL CHIP 10	5% 1/10W
IC550	6-709-087-01	IC CXD9879M		R542	1-216-797-11	METAL CHIP 10	5% 1/10W
IC600	6-707-939-01	IC CXD9843AR		R547	1-219-107-91	RES-CHIP 1.5	5% 1/8W
IC650	6-709-087-01	IC CXD9879M		R548	1-219-107-91	RES-CHIP 1.5	5% 1/8W
IC800	6-701-189-01	IC MC74VHC1GU04DFT1		R549	1-216-791-11	METAL CHIP 3.3	5% 1/10W
IC802	6-701-189-01	IC MC74VHC1GU04DFT1		R550	1-216-797-11	METAL CHIP 10	5% 1/10W
IC810	6-700-263-01	IC NJM2870F18 (TE2)		R551	1-216-809-11	METAL CHIP 100	5% 1/10W
IC880	8-759-422-21	IC NJM4580V (TE2)		R552	1-216-821-11	METAL CHIP 1K	5% 1/10W
		< COIL >		R553	1-216-809-11	METAL CHIP 100	5% 1/10W
L580	1-457-237-11	CHOKE COIL 10uH		R555	1-216-839-11	METAL CHIP 33K	5% 1/10W
L581	1-457-237-11	CHOKE COIL 10uH		R557	1-216-142-00	RES-CHIP 4.7	5% 1/8W
L590	1-457-237-11	CHOKE COIL 10uH		R558	1-216-142-00	RES-CHIP 4.7	5% 1/8W
L591	1-457-237-11	CHOKE COIL 10uH		R559	1-216-142-00	RES-CHIP 4.7	5% 1/8W
L690	1-457-237-11	CHOKE COIL 10uH		R560	1-216-142-00	RES-CHIP 4.7	5% 1/8W
L691	1-457-237-11	CHOKE COIL 10uH		R561	1-216-797-11	METAL CHIP 10	5% 1/10W
L800	1-216-295-91	SHORT CHIP 0		R562	1-216-797-11	METAL CHIP 10	5% 1/10W
L801	1-412-939-11	INDUCTOR 1uH		R567	1-219-107-91	RES-CHIP 1.5	5% 1/8W
L802	1-216-295-91	SHORT CHIP 0		R568	1-219-107-91	RES-CHIP 1.5	5% 1/8W
		< TRANSISTOR >		R569	1-216-791-11	METAL CHIP 3.3	5% 1/10W
Q840	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R581	1-216-790-11	METAL CHIP 2.7	5% 1/10W
Q850	8-729-602-36	TRANSISTOR 2SA1602-F		R583	1-216-790-11	METAL CHIP 2.7	5% 1/10W
Q851	8-729-602-36	TRANSISTOR 2SA1602-F		R591	1-216-790-11	METAL CHIP 2.7	5% 1/10W
Q855	8-729-602-36	TRANSISTOR 2SA1602-F		R593	1-216-790-11	METAL CHIP 2.7	5% 1/10W
Q856	8-729-602-36	TRANSISTOR 2SA1602-F		R600	1-216-864-11	SHORT CHIP 0	
Q865	8-729-602-36	TRANSISTOR 2SA1602-F		R601	1-216-864-11	SHORT CHIP 0	
Q866	8-729-602-36	TRANSISTOR 2SA1602-F		R602	1-216-833-11	METAL CHIP 10K	5% 1/10W
		< RESISTOR >		R603	1-216-809-11	METAL CHIP 100	5% 1/10W
R500	1-216-864-11	SHORT CHIP 0		R605	1-216-817-11	METAL CHIP 470	5% 1/10W
R501	1-216-864-11	SHORT CHIP 0		R606	1-216-817-11	METAL CHIP 470	5% 1/10W
R502	1-216-833-11	METAL CHIP 10K	5% 1/10W	R607	1-216-817-11	METAL CHIP 470	5% 1/10W
R503	1-216-809-11	METAL CHIP 100	5% 1/10W	R609	1-216-864-11	SHORT CHIP 0	
R505	1-216-817-11	METAL CHIP 470	5% 1/10W	R610	1-216-864-11	SHORT CHIP 0	
R506	1-216-817-11	METAL CHIP 470	5% 1/10W	R612	1-216-833-11	METAL CHIP 10K	5% 1/10W
R507	1-216-817-11	METAL CHIP 470	5% 1/10W	R615	1-216-864-11	SHORT CHIP 0	
R509	1-216-864-11	SHORT CHIP 0		R616	1-216-809-11	METAL CHIP 100	5% 1/10W
R510	1-216-864-11	SHORT CHIP 0		R617	1-216-809-11	METAL CHIP 100	5% 1/10W
R511	1-216-864-11	SHORT CHIP 0		R619	1-216-821-11	METAL CHIP 1K	5% 1/10W
R512	1-216-833-11	METAL CHIP 10K	5% 1/10W	R620	1-216-821-11	METAL CHIP 1K	5% 1/10W
R515	1-216-864-11	SHORT CHIP 0		R621	1-216-821-11	METAL CHIP 1K	5% 1/10W
R516	1-216-809-11	METAL CHIP 100	5% 1/10W	R623	1-216-864-11	SHORT CHIP 0	
				R624	1-216-864-11	SHORT CHIP 0	
				R650	1-216-797-11	METAL CHIP 10	5% 1/10W
				R651	1-216-809-11	METAL CHIP 100	5% 1/10W
				R652	1-216-821-11	METAL CHIP 1K	5% 1/10W

HCD-GNX600

SMASTER **SPEAKER** **SW** **VOL**

Ref. No.	Part No.	Description	Remarks
R653	1-216-809-11	METAL CHIP	100 5% 1/10W
R655	1-216-839-11	METAL CHIP	33K 5% 1/10W
R657	1-216-142-00	RES-CHIP	4.7 5% 1/8W
R658	1-216-142-00	RES-CHIP	4.7 5% 1/8W
R661	1-216-797-11	METAL CHIP	10 5% 1/10W
R662	1-216-797-11	METAL CHIP	10 5% 1/10W
R667	1-219-107-91	RES-CHIP	1.5 5% 1/8W
R668	1-219-107-91	RES-CHIP	1.5 5% 1/8W
R669	1-216-791-11	METAL CHIP	3.3 5% 1/10W
R691	1-216-790-11	METAL CHIP	2.7 5% 1/10W
R693	1-216-790-11	METAL CHIP	2.7 5% 1/10W
R800	1-216-857-11	METAL CHIP	1M 5% 1/10W
R801	1-216-809-11	METAL CHIP	100 5% 1/10W
R802	1-216-864-11	SHORT CHIP	0
R804	1-216-864-11	SHORT CHIP	0
R805	1-216-864-11	SHORT CHIP	0
R806	1-216-864-11	SHORT CHIP	0
R807	1-216-864-11	SHORT CHIP	0
R809	1-216-864-11	SHORT CHIP	0
R811	1-216-845-11	METAL CHIP	100K 5% 1/10W
R820	1-216-837-11	METAL CHIP	22K 5% 1/10W
R821	1-216-823-11	METAL CHIP	1.5K 5% 1/10W
R822	1-216-837-11	METAL CHIP	22K 5% 1/10W
R823	1-216-837-11	METAL CHIP	22K 5% 1/10W
R840	1-216-845-11	METAL CHIP	100K 5% 1/10W
R841	1-216-864-11	SHORT CHIP	0
R850	1-216-845-11	METAL CHIP	100K 5% 1/10W
R851	1-216-845-11	METAL CHIP	100K 5% 1/10W
R852	1-216-845-11	METAL CHIP	100K 5% 1/10W
R855	1-216-845-11	METAL CHIP	100K 5% 1/10W
R856	1-216-845-11	METAL CHIP	100K 5% 1/10W
R857	1-216-845-11	METAL CHIP	100K 5% 1/10W
R858	1-216-841-11	METAL CHIP	47K 5% 1/10W
R859	1-216-841-11	METAL CHIP	47K 5% 1/10W
R865	1-216-845-11	METAL CHIP	100K 5% 1/10W
R866	1-216-845-11	METAL CHIP	100K 5% 1/10W
R867	1-216-845-11	METAL CHIP	100K 5% 1/10W
R868	1-216-841-11	METAL CHIP	47K 5% 1/10W
R880	1-216-837-11	METAL CHIP	22K 5% 1/10W
R881	1-216-837-11	METAL CHIP	22K 5% 1/10W
R882	1-216-837-11	METAL CHIP	22K 5% 1/10W
R883	1-216-837-11	METAL CHIP	22K 5% 1/10W
R884	1-216-837-11	METAL CHIP	22K 5% 1/10W
R885	1-216-839-11	METAL CHIP	33K 5% 1/10W
R886	1-216-864-11	SHORT CHIP	0
R887	1-216-837-11	METAL CHIP	22K 5% 1/10W
R888	1-216-837-11	METAL CHIP	22K 5% 1/10W
R889	1-216-837-11	METAL CHIP	22K 5% 1/10W
R890	1-216-837-11	METAL CHIP	22K 5% 1/10W
R891	1-216-839-11	METAL CHIP	33K 5% 1/10W
R892	1-216-864-11	SHORT CHIP	0
R893	1-216-826-11	METAL CHIP	2.7K 5% 1/10W
R894	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R895	1-216-837-11	METAL CHIP	22K 5% 1/10W

Ref. No.	Part No.	Description	Remarks
< VIBRATOR >			
X800	1-795-660-21	QUARTZ CRYSTAL UNIT (49.152MHz)	

SPEAKER BOARD			

< CAPACITOR >			
C1502	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
C1512	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
C1522	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
C1532	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
C1602	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
C1612	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
< CONNECTOR >			
* CN1500	1-564-241-11	PIN, CONNECTOR (3.96mm PITCH) 4P	
CN1600	1-564-320-00	PIN, CONNECTOR (3.96mm PITCH) 2P	
< EARTH TERMINAL >			
* EP1500	1-537-738-21	TERMINAL, EARTH	
* EP1501	1-537-738-21	TERMINAL, EARTH	
< TERMINAL >			
TM1500	1-820-057-11	CONNECTOR (SPEAKER) 3P	
(SUB WOOFER, FRONT SPEAKER)			

1-687-669-12 SW BOARD			

< SWITCH >			
S751	1-786-514-31	SWITCH, LEVER (SLIDE) (OPEN)	

VOL BOARD			

< CAPACITOR >			
C1334	1-164-360-11	CERAMIC CHIP	0.1uF 16V
< DIODE >			
D1307	6-500-809-01	DIODE SELU5223C-STP15 (LED 1)	
D1308	6-500-809-01	DIODE SELU5223C-STP15 (LED 2)	
D1309	6-500-809-01	DIODE SELU5223C-STP15 (LED 3)	
D1310	6-500-809-01	DIODE SELU5223C-STP15 (LED 6)	
D1311	6-500-809-01	DIODE SELU5223C-STP15 (LED 5)	
D1312	6-500-809-01	DIODE SELU5223C-STP15 (LED 4)	
< JUMPER RESISTOR >			
JR1300	1-216-864-11	SHORT CHIP	0
JR1301	1-216-864-11	SHORT CHIP	0
JR1302	1-216-864-11	SHORT CHIP	0
< RESISTOR >			
R1329	1-216-823-11	METAL CHIP	1.5K 5% 1/10W

Ref. No.	Part No.	Description	Remarks		
R1333	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1334	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R1335	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1336	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1337	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1362	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1363	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1364	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1365	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1366	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1367	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1368	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1369	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1370	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1371	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1372	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1373	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1374	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1375	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1376	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1377	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1378	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1379	1-216-821-11	METAL CHIP	1K	5%	1/10W
< SWITCH >					
S1305	1-418-725-41	ENCODER, ROTARY (12 TYPE)	(MASTER VOLUME)		
S1306	1-786-289-11	SWITCH, DETECTION (OPERATION DIAL)			
S1318	1-762-875-21	SWITCH, KEYBOARD (EQ BAND/MEMORY)			
S1319	1-762-875-21	SWITCH, KEYBOARD (MP3 BOOSTER)			
S1328	1-762-875-21	SWITCH, KEYBOARD (PRESET EQ)			
S1331	1-762-875-21	SWITCH, KEYBOARD (GROOVE)			

MISCELLANEOUS					

7	1-693-702-11	TUNER (FM/AM) (TM10SE)			
10	1-775-250-11	WIRE (FLAT TYPE) (27 CORE)			
11	1-829-030-11	WIRE (FLAT TYPE) (25 CORE)			
12	1-827-720-11	WIRE (FLAT TYPE) (11 CORE)			
66	1-417-656-11	MECHA DECK (CWN42FF601)			
106	1-500-497-11	FILTER, CLAMP (FERRITE CORE)			
△ 108	1-783-941-12	CORD, POWER (AR)			
△ 108	1-827-226-31	CORD, POWER (E2, E3)			
△ 108	1-829-259-11	CORD, POWER (AUS)			
△ 108	1-830-188-11	CORD, POWER (E51)			
152	1-832-798-21	CABLE, FLEXIBLE FLAT (5 CORE)			
226	1-832-404-21	CABLE, FLEXIBLE FLAT (16 CORE)			
△ 229	8-820-244-01	OPTICAL PICK-UP KSM-215DCP/C2NP			
230	1-471-035-21	MAGNET ASSY			
△ F1100	1-532-506-33	FUSE (T6.3AL/250V)			
M741	A-1108-965-A	MOTOR ASSY, TABLE (TABLE)			
M751	A-1108-966-A	MOTOR ASSY, LOADING (LOADING)			
M891	1-763-372-11	FAN, DC			
S711	1-477-680-12	ENCODER, ROTARY			

REVISION HISTORY

Clicking the version allows you to jump to the revised page.

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

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