

HCD-VP700

SERVICE MANUAL

E Model

Ver 1.0 2001.06



- HCD-VP700 is the tuner, deck, CD and amplifier section in MHC-VP700.

CD Section	Model Name Using Similar Mechanism	HCD-VX555/VX555J
	CD Mechanism Type	CDM58E-30BD61A
	Base Unit Name	BU-30BD61A
	Optical Pick-up Name	A-MAX.3
Tape deck Section	Model Name Using Similar Mechanism	HCD-DP800AV
	Tape Transport Mechanism Type	TCM-230MWR41/AWR41

SPECIFICATIONS

Amplifier section

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

DIN power output (rated) 130 + 130 watts
(6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference)
180 + 180 watts
(6 ohms at 1 kHz, 10% THD)

Inputs
GAME IN: voltage 250 mV,
(phono jacks) impedance 47 kilohms
MD/VIDEO IN: voltage 450 mV/250 mV,
(phono jacks) impedance 47 kilohms
OPTICAL IN: (Square optical connector jacks, front and rear panels)
wavelength —
MIC 1/2: sensitivity 1 mV,
(phone jack) impedance 10 kilohms

Outputs

MD (VIDEO) OUT: voltage 250 mV
(phono jacks) impedance 1 kilohms
VIDEO OUT: max. output level
(phono jack) 1 Vp-p, unbalanced, Sync negative, load impedance 75 ohms

S-VIDEO OUT: Y: 1 Vp-p, unbalanced,
(4-pin/mini-DIN jack) Sync negative,
C: 0.286Vp-p, load impedance 75 ohms
PHONES: accepts headphones of
(stereo mini jack) 8 ohms or more
SPEAKER: accepts impedance of 8 to 16 ohms

SUB WOOFER: Voltage 1 V,
impedance 1 kilohms

— Continued on next page —

MINI HI-FI COMPONENT SYSTEM

9-873-175-01
2001F0200-1
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Sony Corporation
Home Audio Company
Shinagawa Tec Service Manual Production Group

SONY®

VIDEO CD/CD player section

System	Compact disc and digital audio system
Laser	Semiconductor laser ($\lambda=660$ nm)
Frequency response	2 Hz – 20 kHz (± 0.5 dB)
Signal-to-noise ratio	More than 90 dB
Dynamic range	More than 90 dB
Video color system format	NTSC, PAL
DIGITAL OUT OPTICAL	
(Square optical connector jack, rear panel)	
wavelength	660 nm

Tape player section

Recording system	4-track 2-channel stereo
Frequency response (DOLBY NR OFF)	40 – 13,000 Hz (± 3 dB), using Sony TYPE I cassette, 40 – 14,000 Hz (± 3 dB), using Sony TYPE II cassette

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range	
Tourist model:	76.0 – 108.0 MHz
Other models:	87.5 – 108.0 MHz
Antenna	FM lead antenna
Antenna terminals	75 ohm unbalanced
Intermediate frequency	10.7 MHz

AM tuner section

Tuning range	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	
Thailand model:	220 V AC, 50/60 Hz
Other models:	120 V, 220 V or 230 – 240 V AC, 50/60 Hz Adjustable with voltage selector
Power consumption	195 watts
Dimensions (w/h/d)	Approx. 280 x 360 x 365 mm
Mass	Approx. 11.0 kg
Supplied accessories:	AM loop antenna (1) FM lead antenna (1) Remote commander (1) Batteries (2) Video cable (1) Front speaker pads (8)

Design and specifications are subject to change without notice.

SAFETY-RELATED COMPONENT WARNING!!

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

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

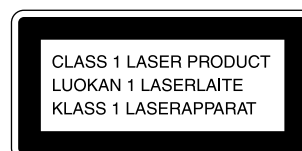
The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter 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 component in this product is capable of emitting radiation exceeding the limit for Class 1.



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

CAUTION

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

Notes on chip component replacement

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

Flexible Circuit Board Repairing

- Keep the temperature of 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.

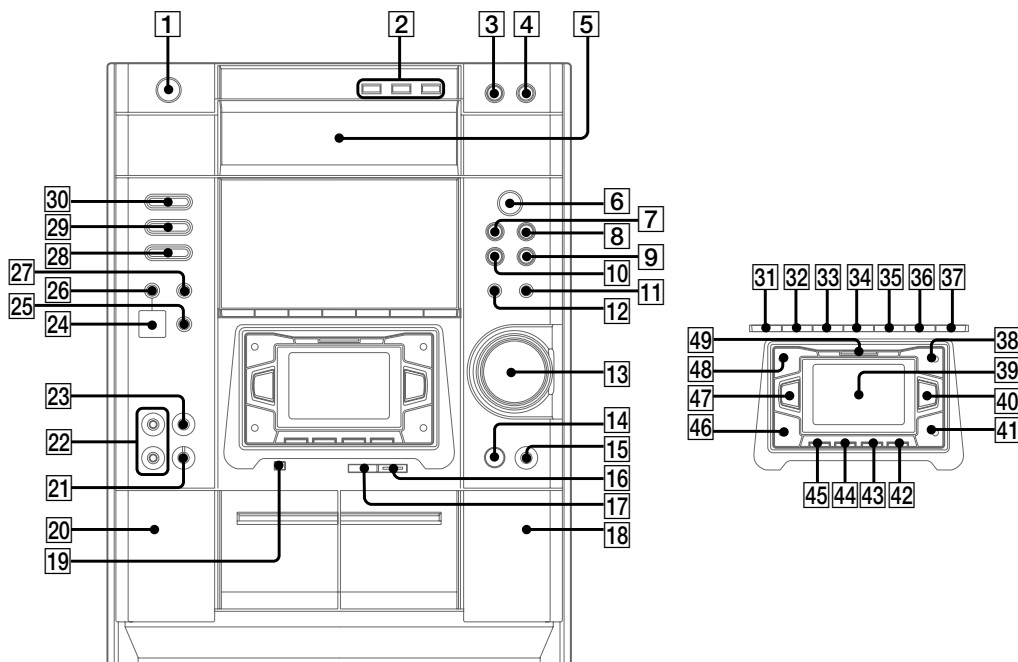
TABLE OF CONTENTS

1. GENERAL	4
2. DISASSEMBLY	6
3. TEST MODE	13
4. MECHANICAL ADJUSTMENTS	17
5. ELECTRICAL ADJUSTMENTS	17
6. DIAGRAMS	
6-1. Circuit Board Location	24
6-2. Block Diagrams	25
6-3. Schematic Diagram BD Section	28
6-4. Printed Wiring Board BD Section	29
6-5. Printed Wiring Board Main Section	30
6-6. Schematic Diagram Main Section (1/3)	31
6-7. Schematic Diagram Main Section (2/3)	32
6-8. Schematic Diagram Main Section (3/3)	33
6-9. Printed Wiring Board DSP Section	34
6-10. Schematic Diagram DSP Section (1/2)	35
6-11. Schematic Diagram DSP Section (2/2)	36
6-12. Printed Wiring Board OPT Section	37
6-13. Schematic Diagram OPT Section	37
6-14. Printed Wiring Board Front Amp Section	38
6-15. Schematic Diagram Front Amp Section	39
6-16. Printed Wiring Board Surround Amp Section	40
6-17. Schematic Diagram Surround Amp Section	41
6-18. Printed Wiring Board Panel Section	42
6-19. Schematic Diagram Panel Section (1/2)	43
6-20. Schematic Diagram Panel Section (2/2)	44
6-21. Printed Wiring Board Leaf SW Section	45
6-22. Schematic Diagram Leaf SW Section	45
6-23. Printed Wiring Board Driver Section	46
6-24. Schematic Diagram Driver Section	46
6-25. Printed Wiring Board Video Section	47
6-26. Schematic Diagram Video Section (1/3)	48
6-27. Schematic Diagram Video Section (2/3)	49
6-28. Schematic Diagram Video Section (3/3)	50
6-29. Printed Wiring Board Trans Section	51
6-30. Schematic Diagram Trans Section	52
6-31. IC Pin Function Description	54
6-32. IC Block Diagrams	63
7. EXPLODED VIEWS	
7-1. Main Section	67
7-2. Front Panel Section	68
7-3. Chassis Section	69
7-4. Tape Mechanism Deck Section-1 (TCM-230MWR41)	70
7-5. Tape Mechanism Deck Section-2 (TCM-230AWR41)	71
7-6. CD Mechanism Deck Section (CDM58E-30BD61A)	72
7-7. Base Unit Section (BU-30BD61A)	73
8. ELECTRICAL PARTS LIST	74

Parts Identification

The items are arranged in alphabetical order.

Main unit



2CH/MULTI **42** (27)
 CD **30** (9, 12-15, 22, 23)
 CD SYNC HI-DUB **17** (22, 23)
 CLOCK/TIMER SET **33** (11, 23, 29)
 DECK A **20** (21)
 DECK B **18** (21)
 digipad **39** (6, 10, 11, 13, 15, 19-21, 24, 26, 30)
 DIGITAL **26** (31)
 DIGITAL IN 2 (OPTICAL) jack **24** (31)
 DIRECTION **35** (21-23, 28)
 DISC 1-3 **2** (12-15, 23)
 DISC SKIP EX-CHANGE **3** (12-14)
 Disc tray **5** (12)
 DISPLAY **31** (11, 16)
 DOLBY NR **36** (21-23)
 DSP EDIT **47** (25)
 ECHO LEVEL control **23** (28)
 EDIT **35** (23)
 EFFECT **43** (25, 26)
 ENTER **40** (11, 14, 15, 19, 20, 23, 24, 26, 29, 30)

FM MODE **36** (20)
 GAME **25** (31)
 GAME MODE **46** (25)
 GROOVE **44** (25)
 IR receptor **14**
 KARAOKE PON **32** (27, 28)
 MD (VIDEO) **27** (31)
 MIC 1/2 jack **22** (27, 28)
 MIC LEVEL control **21** (27, 28)
 MOVIE MODE **38** (25)
 MULTI CHANNEL DECODING indicator **49** (29)
 MUSIC MODE **48** (25)
 P FILE **45** (26)
 PICTURE EFFECT **19** (19)
 PHONES jack **15**
 PLAY MODE **37** (12, 14, 15, 23)
 REC/PAUSE START **16** (22, 23, 28)
 REPEAT **36** (13, 15)
 TAPE A/B **28** (21, 22)
 TIMER SELECT **34** (24, 30)
 TOOL MODE **41** (25)
 TUNER/BAND **29** (20)
 TUNER MEMORY **37** (20)
 VOLUME control **13**

BUTTON DESCRIPTIONS

I/⏻ (power) **1**
 ▲ OPEN/CLOSE (disc tray) **4**
 ▶▶ (play) **6**
 || (pause) **7**
 ■ (stop) **8**
 ◀◀ (go back) **10**
 ▶▶ (go forward) **9**
 ◀◀/- (rewind) **12**
 ▶▶/+ (fast forward) **11**

Setting the time

- 1 Turn on the system.**
- 2 Press CLOCK/TIMER SET.**
When you set the time for the first time,
proceed to step 5.
- 3 Press ◀◀ or ▶▶ repeatedly to select
“CLOCK SET”.**
- 4 Press ENTER.**
- 5 Press ◀◀ or ▶▶ repeatedly to set the
hour.**
- 6 Press ENTER.**
- 7 Press ◀◀ or ▶▶ repeatedly to set the
minutes.**
- 8 Press ENTER.**

Tips

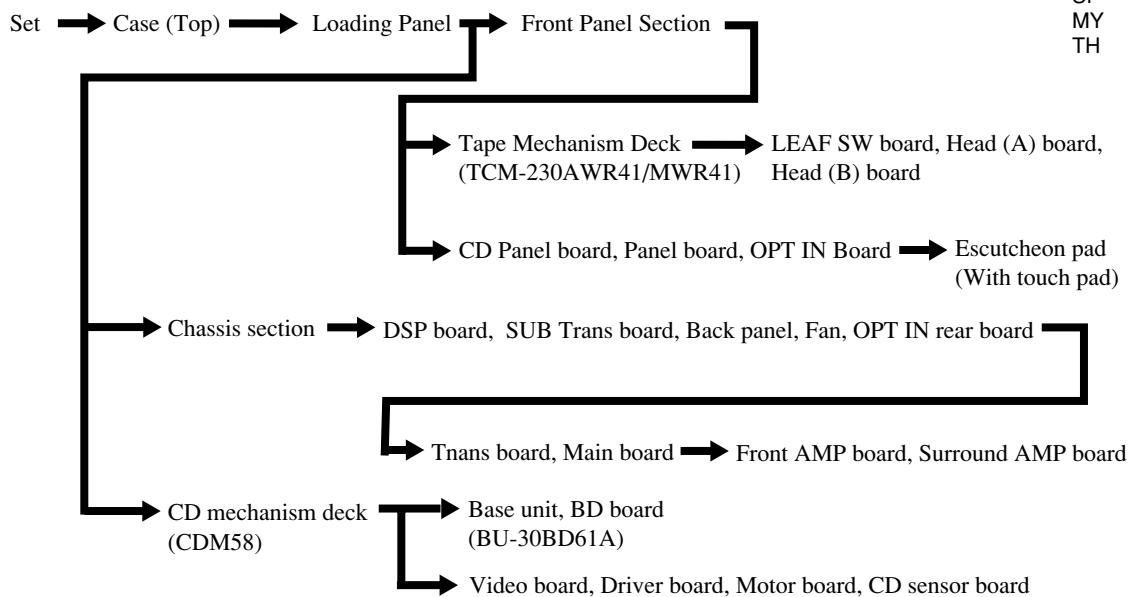
- If you have made a mistake or want to change the time, start over from step 2.
- You can use the digipad instead of ◀◀/▶▶.

Note

The clock settings are canceled when you disconnect the power cord or if a power failure occurs.

SECTION 2 DISASSEMBLY

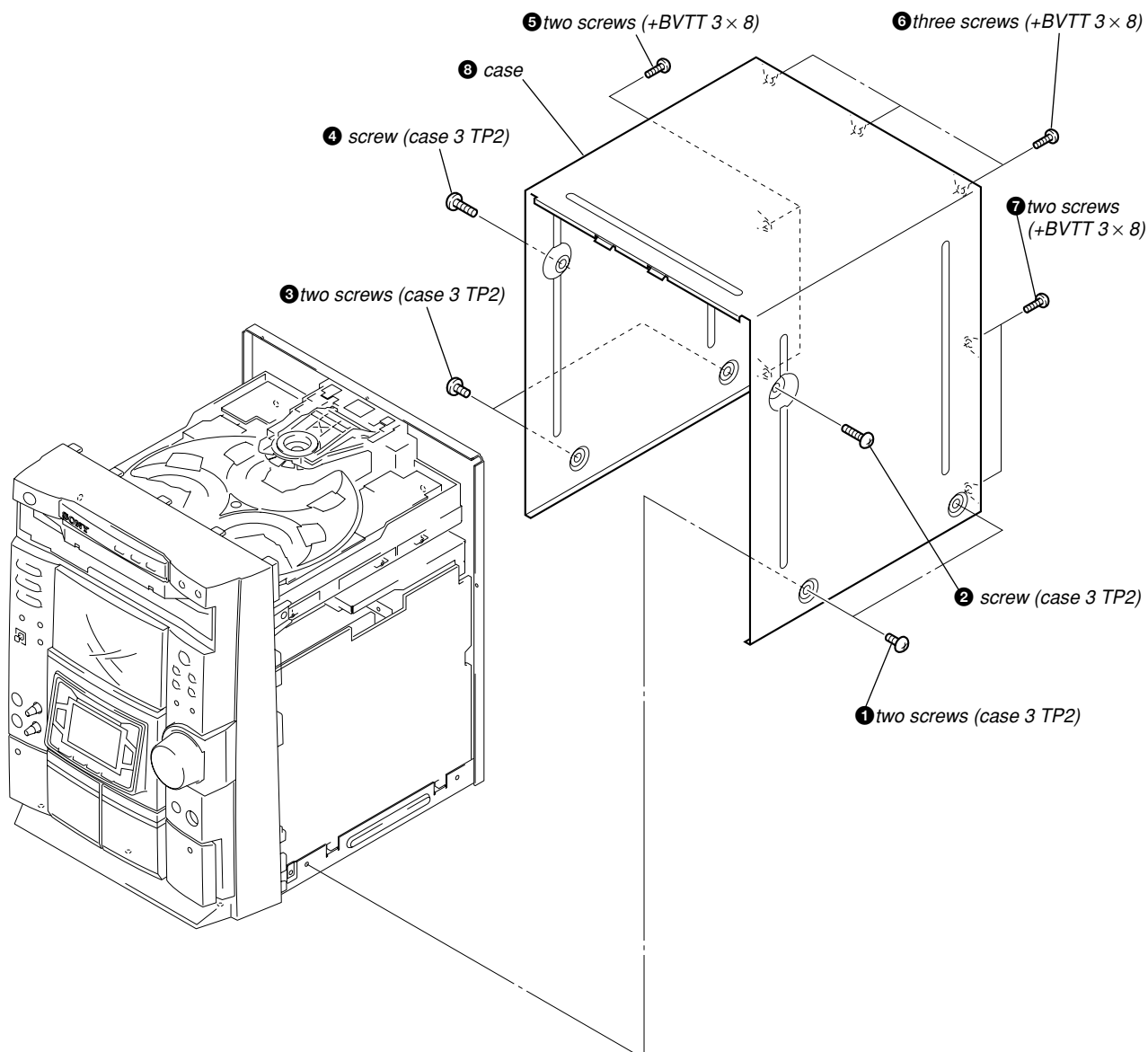
- The equipment can be removed using the following procedure.



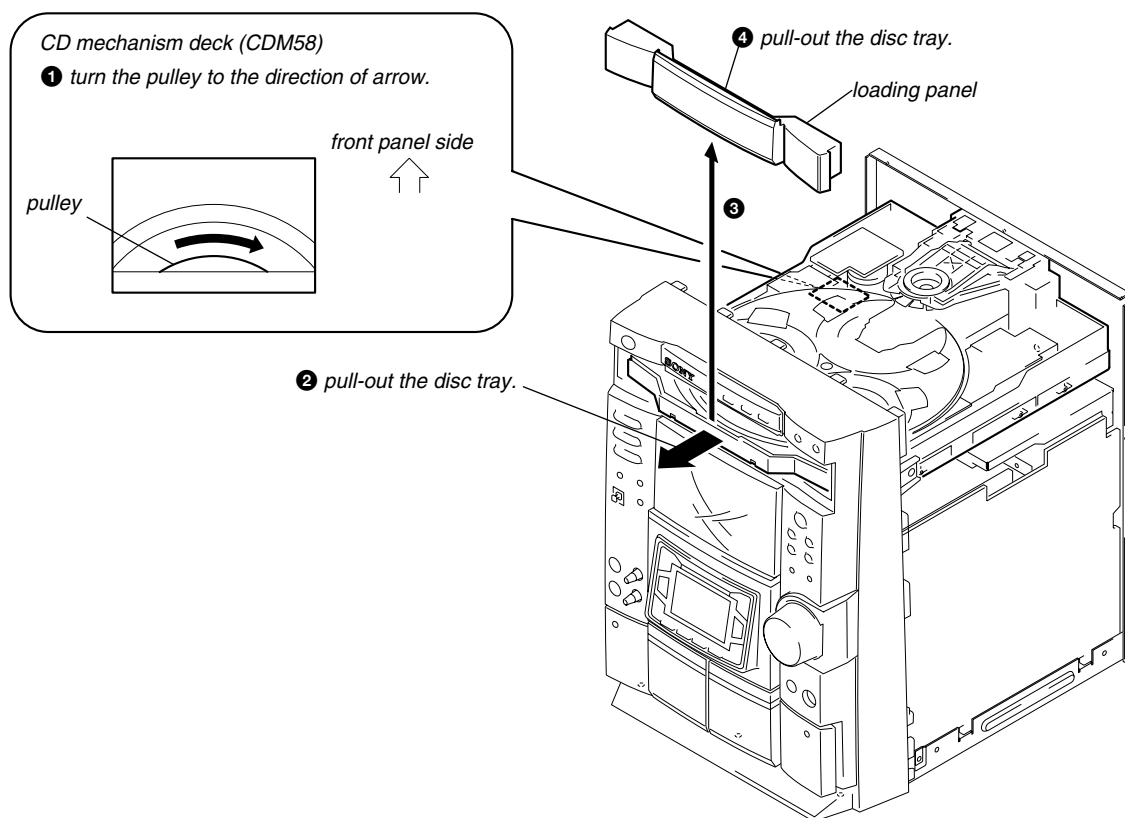
- Abbreviation
- SP : Singapre model
- MY : Malaysia model
- TH : Thai model

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

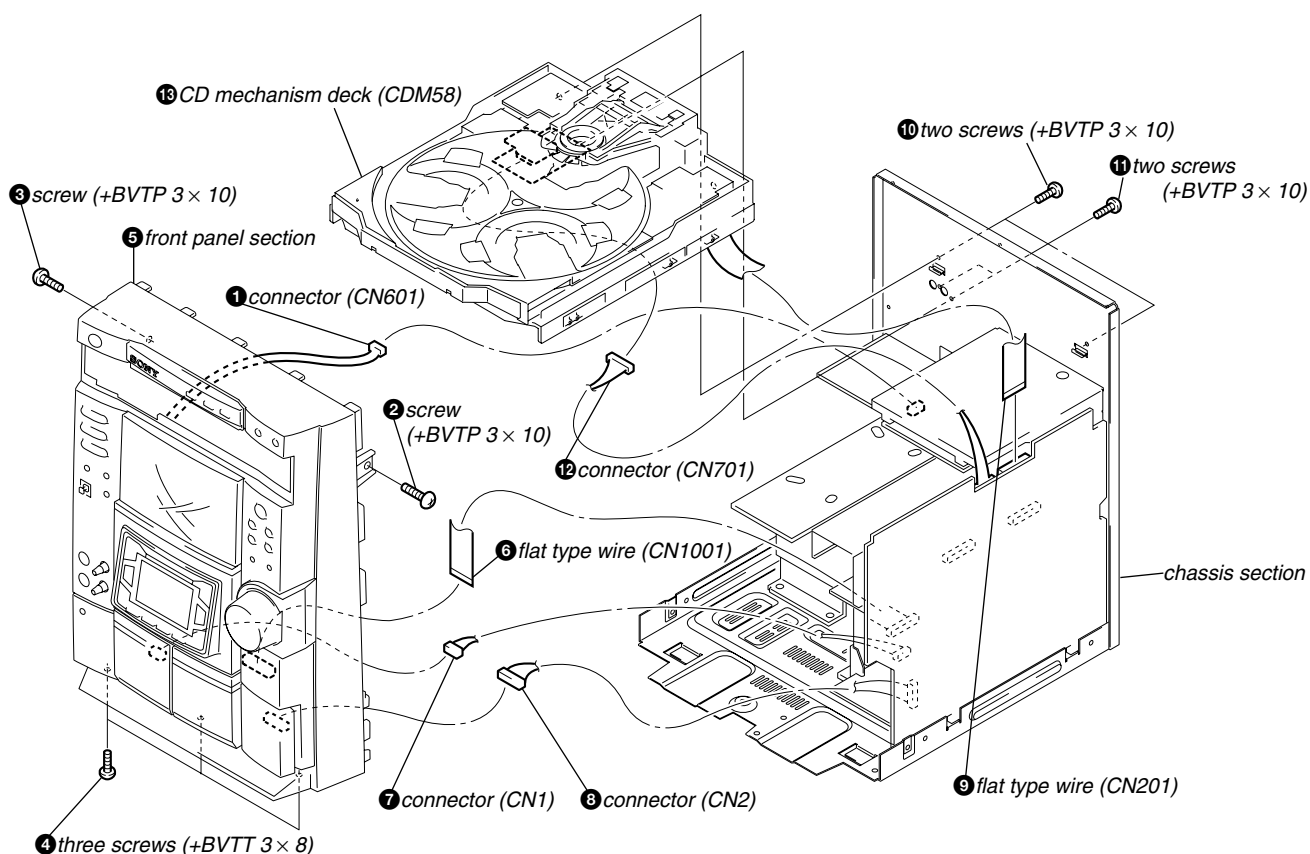
2-1. CASE (TOP)



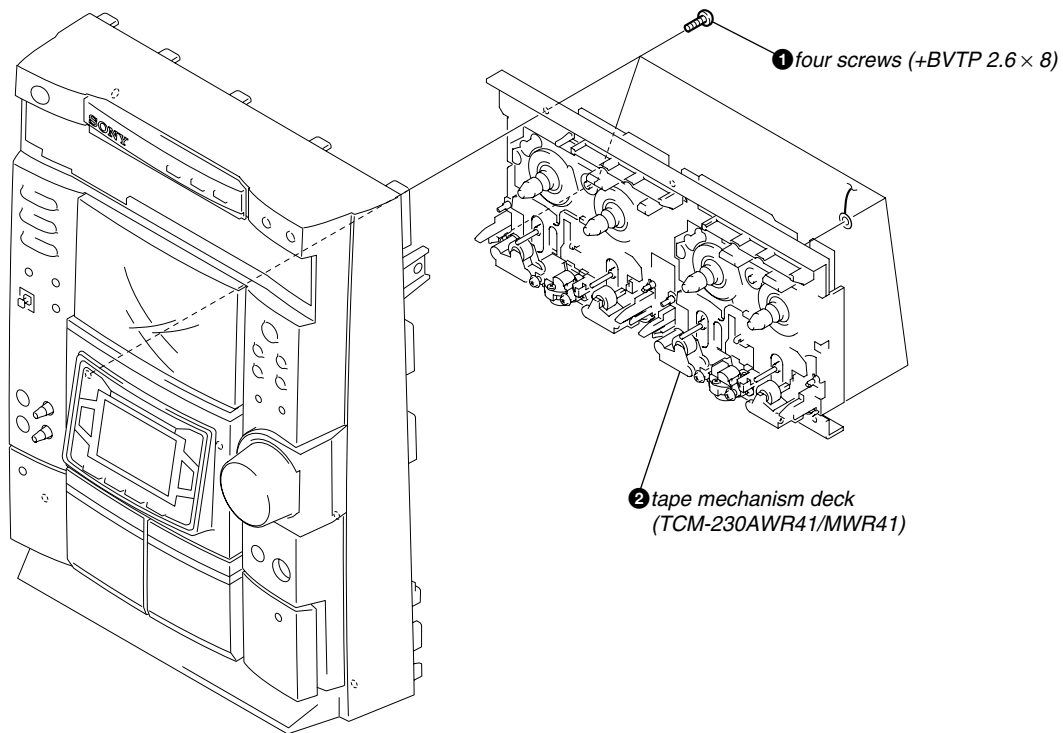
2-2. LOADING PANEL



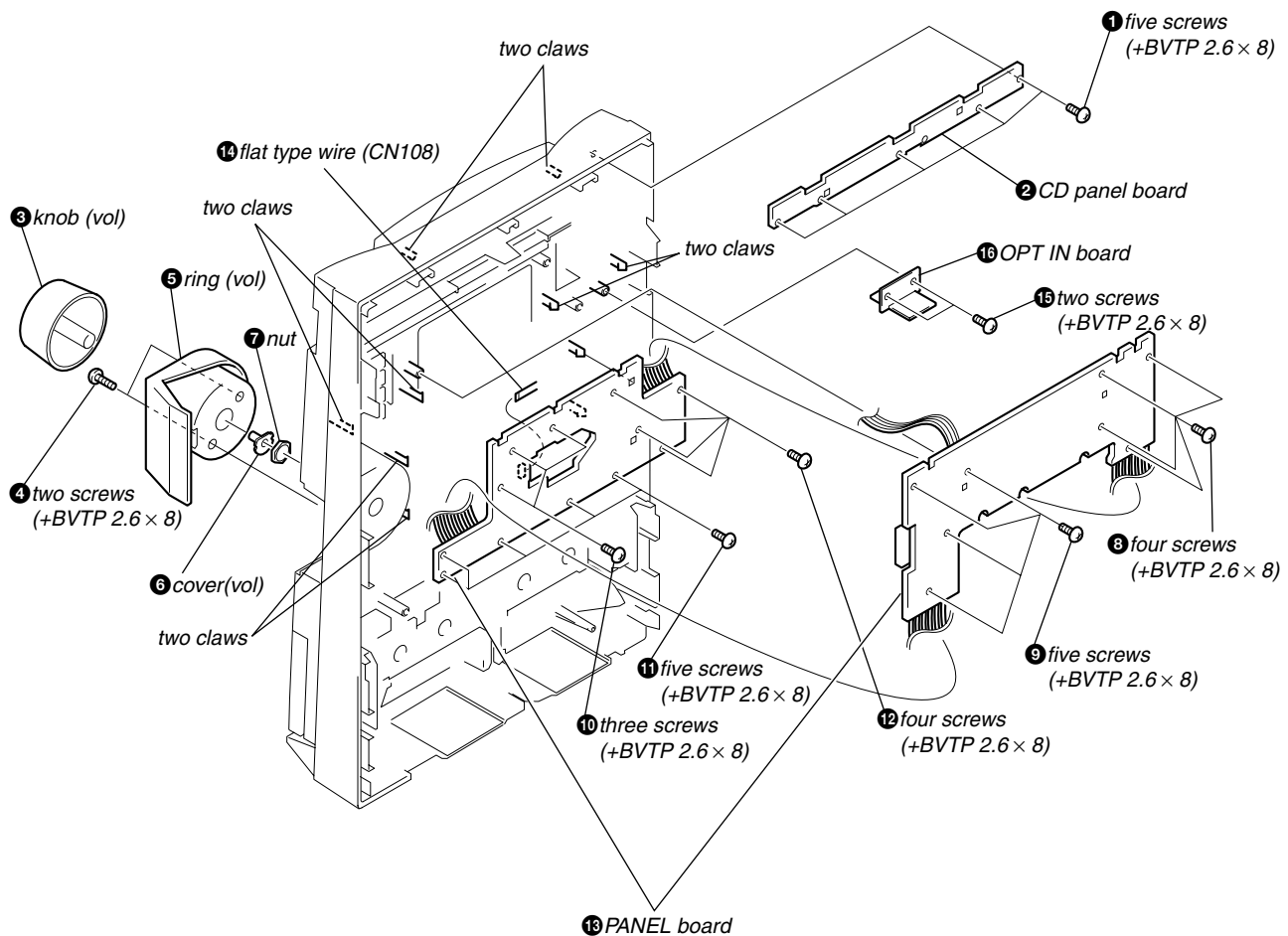
2-3. FRONT PANEL SECTION, CD MECHANISM DECK (CDM58)



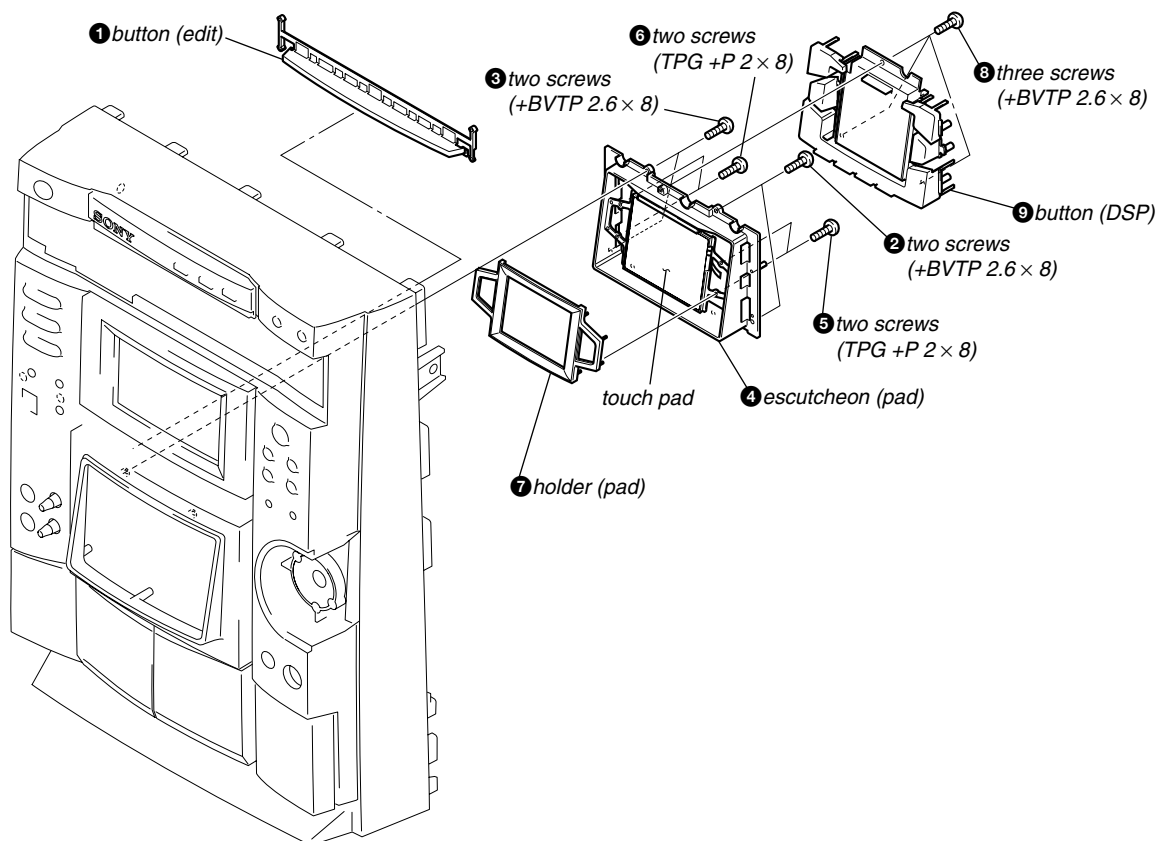
2-4. TAPE MECHANISM DECK (TCM-230AWR41/MWR41)



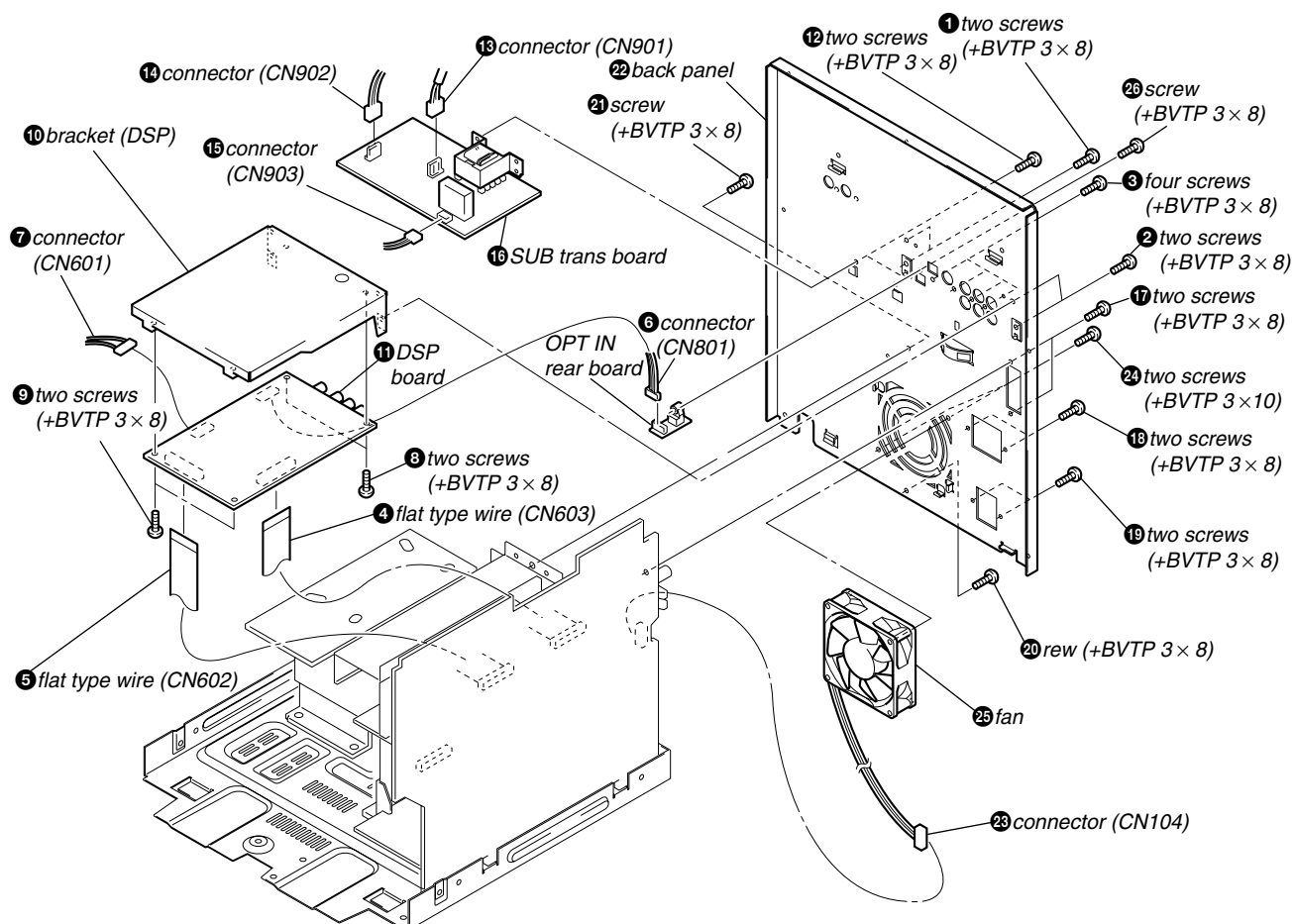
2-5. CD PANEL BOARD, PANEL BOARD, OPT IN BOARD



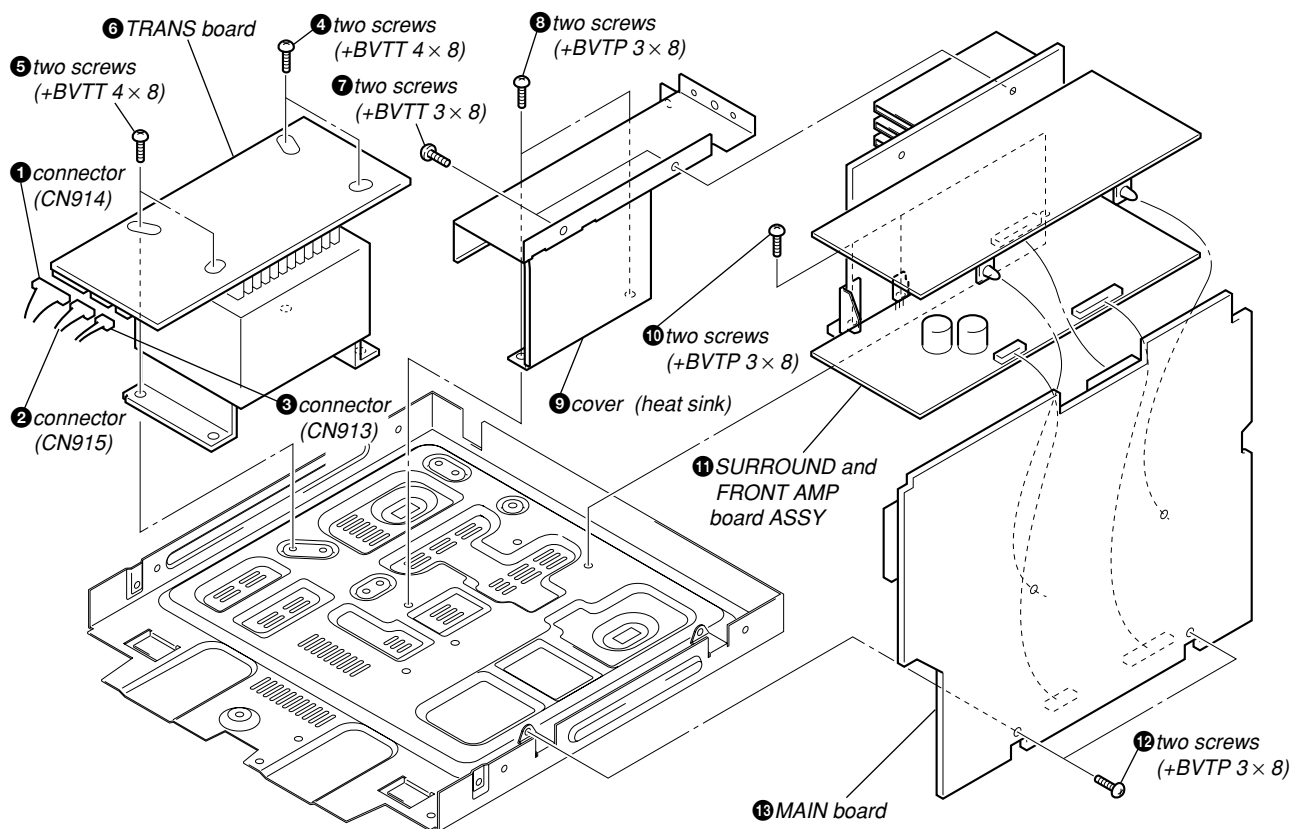
2-6. ESCUTCHEON PAD (WITH TOUCH PAD)



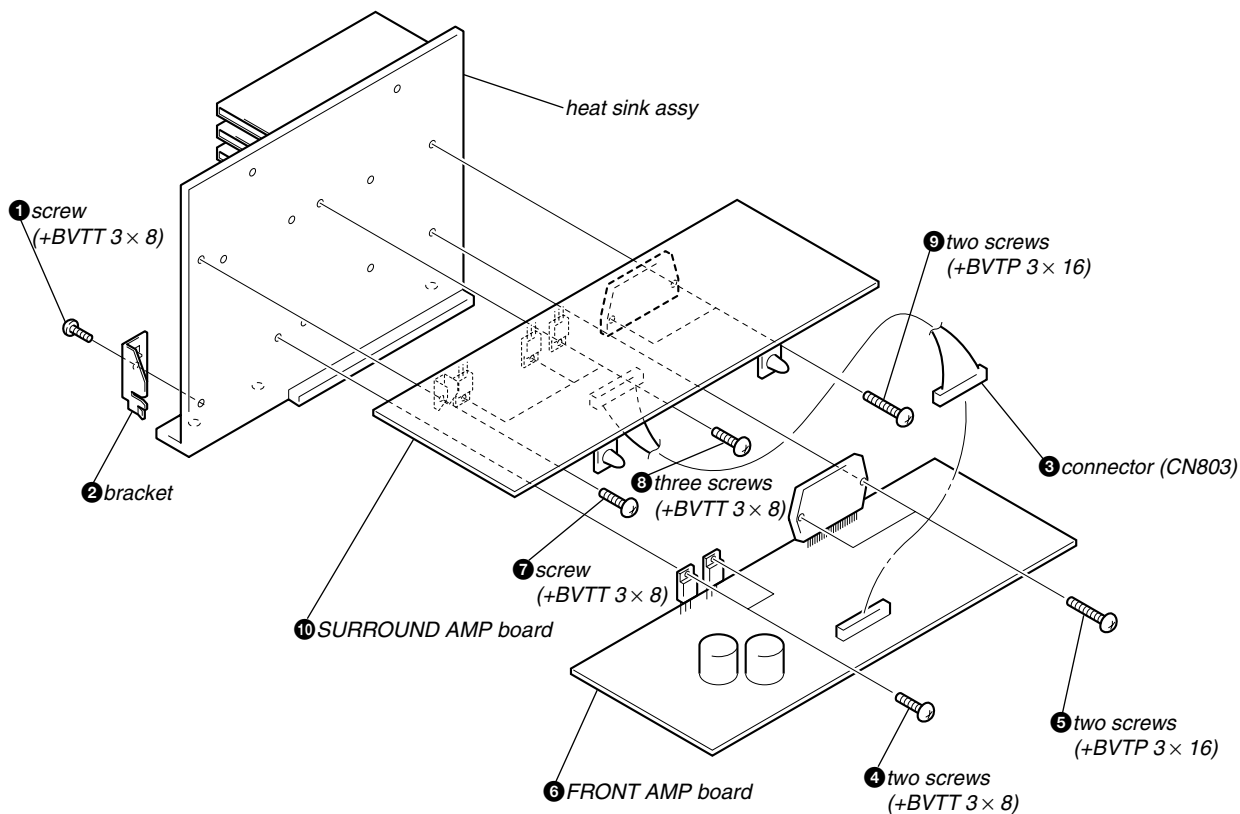
2-7. DSP BOARD, SUB TRANS BOARD, BACK PANEL, FAN, OPT IN REAR BOARD



2-8. TRANS BOARD, MAIN BOARD

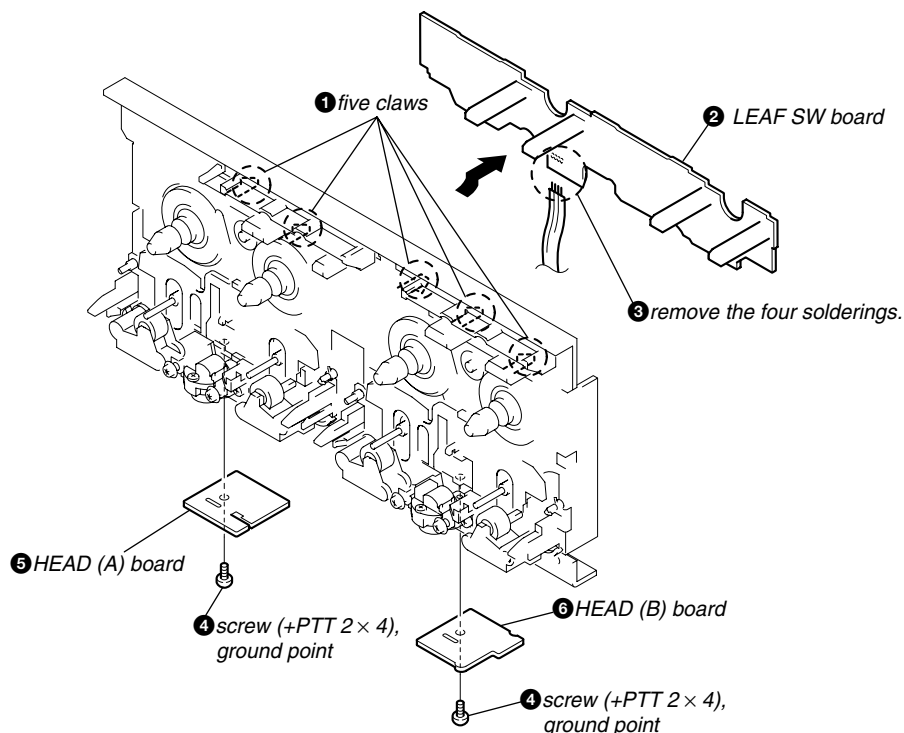


2-9. FRONT AMP BOARD, SURROUND AMP BOARD

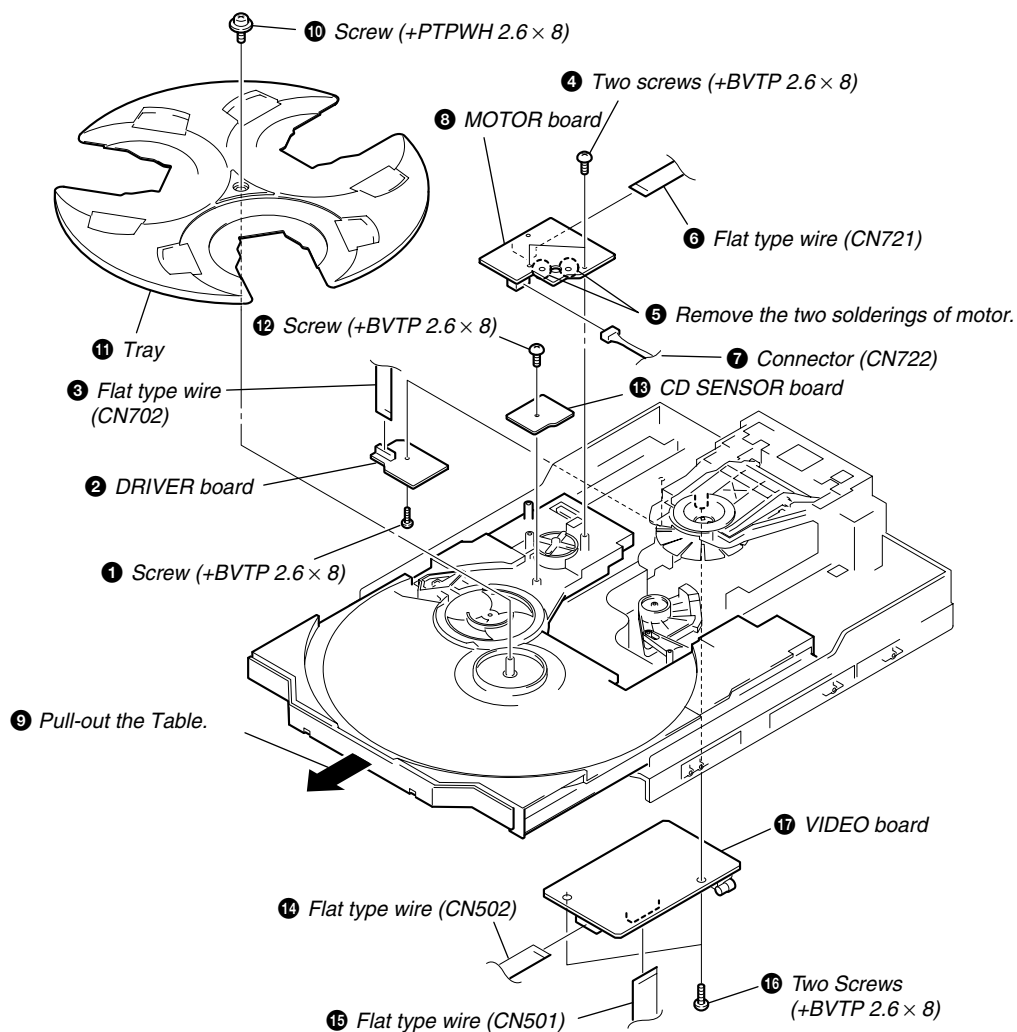


2-10. LEAF SW BOARD, HEAD (A) BOARD, HEAD (B) BOARD (TCM-230AWR41/MWR41)

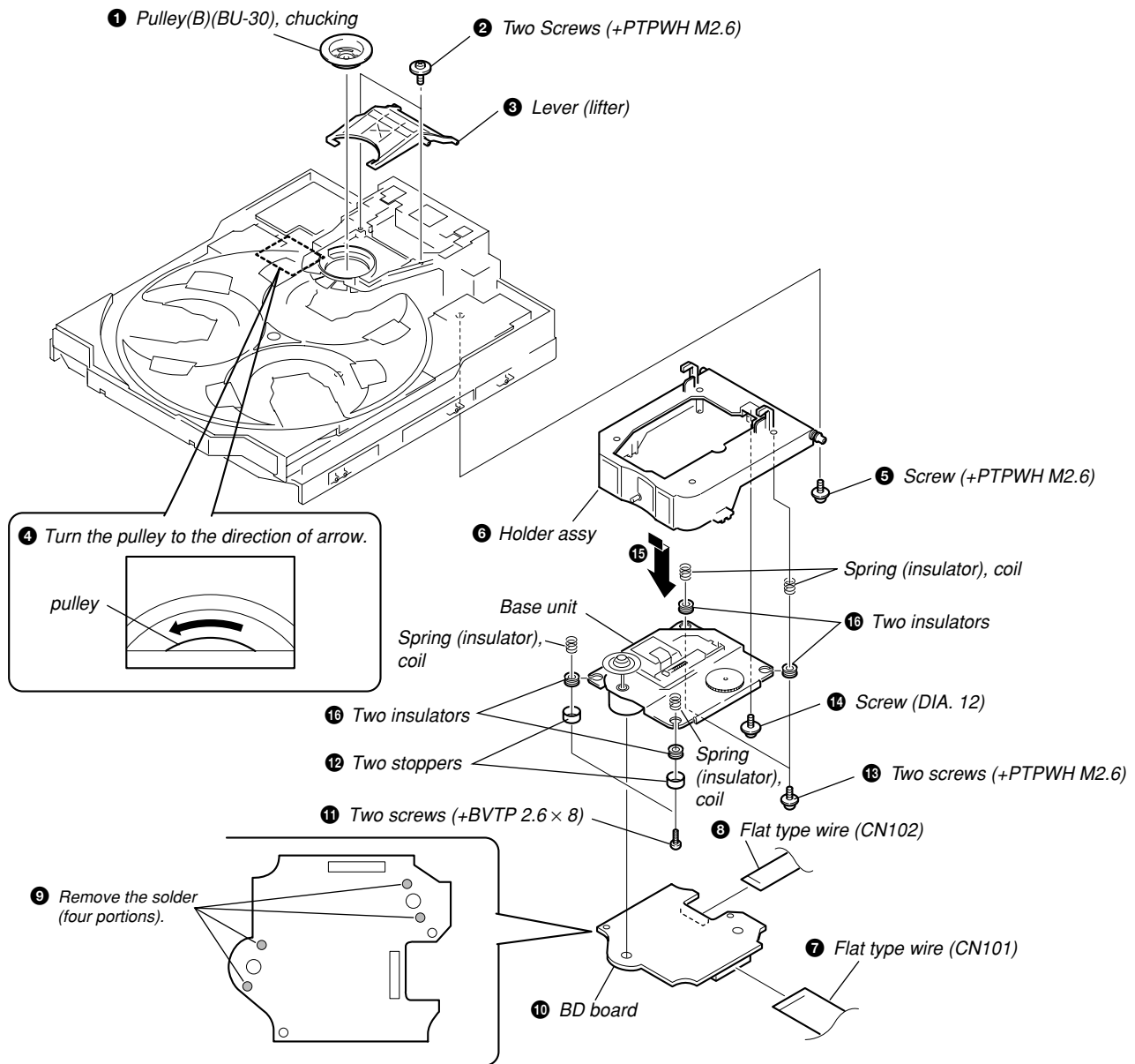
Note: This illustration is for TCM-230MWR, but in case of TCM-230AWR, you can remove them in the same way.



2-11. VIDEO BOARD, DRIVER BOARD, MOTOR BOARD, CD SENSOR BOARD



2-12. BASE UNIT, BD BOARD



SECTION 3 TEST MODE

[Cold Reset]

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

Procedure:

- Press three buttons , **DISPLAY**, and **DISC 1** simultaneously.
- The fluorescent indicator tube becomes blank instantaneously, and the set is reset.

[Tuner Step Change] (Except for European and Middle Eastern models)

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

Procedure:

- Press  button to turn the set ON.
- Select the function "TUNER", and press **TUNER/BAND** button to select the BAND "AM".
- Press  button to turn the set OFF.
- Press **ENTER** and  buttons simultaneously, and the display of fluorescent indicator tube changes to "AM 9 k ST" or "AM 10 k ST", and thus the channel step is changed over.

[GC Test Mode]

- This mode is used to check the software version, FL tube, LED, keyboard and VACS.

Procedure:

- Press three buttons , **DISPLAY**, and **DISC 2** simultaneously.
- LEDs and fluorescent indicator tube are all turned on.
- When you want to enter the software version display mode, press **DISC 1**. The model number and destination are displayed.
- Each time **DISC 1** is pressed, the display changes stating from MC version, GC version, CD version, CDD, CDM version BD, ST version, TA version, TM version, TC version, in this order, and returns to the model number and destination display.
- When **DISC 3** is pressed while the version numbers are being displayed except model number and destination, year, month and day of the software creation appear. When **DISC 3** is pressed again, the display returns to the software version display. When **DISC 1** is pressed while year, month and day of the software creation are being displayed, the year, month and day of creation of the software versions are displayed in the same order of version display.
- Press **DISC 2** button, and the key check mode is activated.
- In the key check mode, the fluorescent indicator tube displays "KOJOVO". Each time a button is pressed, "KEY" value increases. However, once a button is pressed, it is no longer taken into account. "VOL" value increases like 1, 2, 3...if rotating VOLUME knob in "+" direction, or it decreases like 0, 9, 8...if rotating in "-" direction.
- Also when **DISC 3** is pressed after lighting of all LEDs and FL tubes, value of VACS appears.
- To exit from this mode, press three buttons in the same manner as step 1, or disconnect the power cord.

[MC Test Mode]

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

Procedure:

- To enter MC Test Mode
- Press the  button to turn on the set.
 - Press the three buttons of , **DISPLAY** and **DISC 3** simultaneously.

- Cursor segment flash on the FL display tube. The input FUNCTION is changed to GAME.

* Check of Amplifier

Initial settings: Input → GAME
EQ → FLAT
Mode → MUSIC
VA CS → OFF

Output channel switching:

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

- When the **VOLUME** control knob is turned clockwise even slightly, the sound volume increases to its maximum and a message "VOLUME MAX" appears for two seconds, then the display returns to the original display.
- When the **VOLUME** control knob is turned counter-clockwise even slightly, the sound volume decreases to its minimum and a message "VOLUME MIN" appears for two seconds, then the display returns to the original display.

* Tuner function

- In the test mode, the default-preset channel is called even when the TUNER is selected and an attempt is made to call the preset channel that has been stored in memory. (It means that the memory is cleared.)
- The minimum, center and maximum frequency of each band is set then.

* Tape recording test

- To enter the MC Test Mode.
- Load tapes in both tape decks A and B.
- Press the REC button to start recording.
- Pressing the ,  buttons during recording returns the tape to the recording start position and stops it at this position.
- Pressing the "High Speed Dubbing" key while playing back the tape of deck B switches the playback speed between "Normal Speed" and "High Speed".

Note:

When the playback direction of the tape is set to other than "ONLY WAY", the restriction on the number of times playback which can be repeated will be cleared.

* AMS Test Mode

- Set TAPE function
- Select the desired loop by pressing the **PLAY MODE** button. Insert a test tape AMS-110A or AMS-120 to Deck A.
- Press the **SPECTRUM** or **KARAOKE PON** button to enter the AMS test mode.
- After a tape is rewound first, the FF AMS is checked, and the mechanism is shut off after detecting the AMS signal the AMS signal twice.
- Then the REW AMS is checked and the mechanism is shut off after detecting the AMS signal twice.
- When the check is complete, a message of either OK or NG appears.

* To return to normal mode again.

- When you want to exit this mode, press the  button.
- The cold reset is enforced at the same time.

[CD Ship Mode (No Memory Clear)]

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

Procedure:

1. Press  button to turn the set ON.
2. Press three ,  button and  button simultaneously.
3. After the “STANBY” display blinks six times, a message “LOCK” is displayed on the fluorescent indicator tube, and the CD ship mode is set.

[CD Ship Mode (Memory Clear)]

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

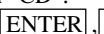
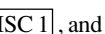
Procedure:

1. Press  button to turn the set ON.
2. Press three buttons  and  button simultaneously.
3. After the “STANDBY” display blinks six times, a message “LOCK” is displayed on the fluorescent indicator tube, and the CD ship mode is set.

[CD Service Mode]

- This mode can run the CD sled motor freely. Use this mode, for instance, when cleaning the pickup.

Procedure:

1. Press  button to turn the set ON.
2. Select the function “CD”.
3. Press three buttons , , and  simultaneously.
4. The CD service mode is selected.
5. With the CD in stop status, press  button to move the pickup to outside track, or press  button to inside track.
6. To exit from this mode, perform as follows:
 - 1) Move the pickup to the most inside track.
 - 2) Press  button to turn the set OFF.

Note:

- Always move the pickup 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.

[VCD COLOR SYSTEM MODE]

- This mode is used for changing the COLOR SYSTEM of the VCD.

Procedure:

- Set the standby mode.
1. Press the two buttons  and  simultaneously to set the COLOR SYSTEM of the VCD to AUTO.
2. Press the two buttons  and  simultaneously to fix the COLOR SYSTEM of the VCD to PAL.
3. Press the two buttons  and  simultaneously to fix the COLOR SYSTEM of the VCD to NTSC.
- The power tune ON automatically and the function sets to "CD".
- The FL tube shows the COLOR SYSTEM mode see .
- The COLOR SYSTEM mode set is maintained (memorized) until COLD RESET is executed.

[VIDEO CD Color-bars Mode]

On this mode, the data of the color-bars signal as a picture signal and the 1 kHz sine wave signal as a sound signal are output by the mechanism controller (IC502) for the video CD signal check. When measurement of the voltage and waveform on the VIDEO board, perform it in this mode.

For reference, the color-bars signal can be observed at J302 using an oscilloscope.

Procedure:

- Short the both ends of the land of SL503 of the VIDEO board.
- Turn the power on. Press the  button to select CD.
- The color-bars appears when the CD is in stop status, and it disappears when the CD goes in play status.
- After measuring, remove the lead wire connected. VIDEO board (SIDE B)

[CD Servo ON/OFF Mode]**Procedure:**

- Short SL502 on the VIDEO board by soldering.
- Turn on the main power. Set a disc on the DISC1 tray. Select CD.
- Press the  button to play back CD.
- When the  button is pressed, 100 track jump is executed.
- Also, every pressing of the  button triggers between ON and OFF of TRACKING SERVO and SLED SERVO.

How to quit the CD servo ON/OFF mode:

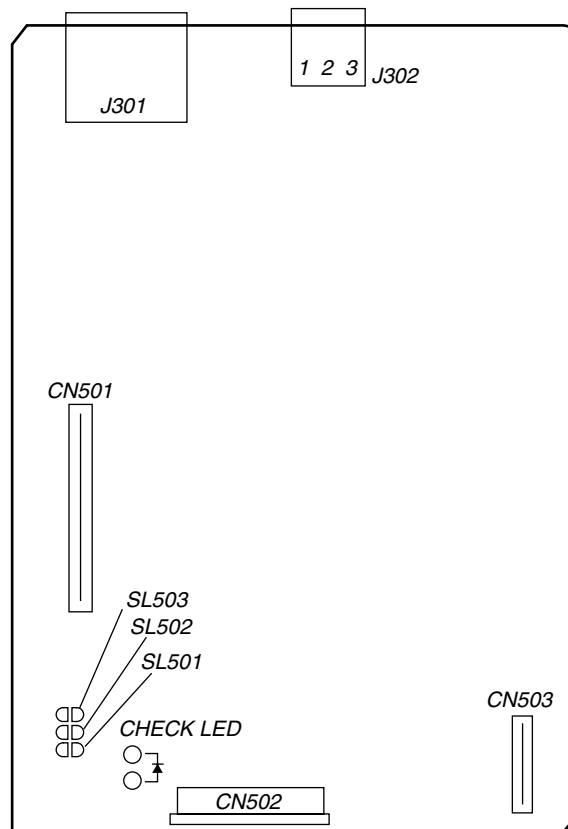
- Press the  button to turn off the main power.
- Remove soldering from SL502.

[REPEAT 5 LIMIT OFF MODE]

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

Procedure:

- Press the  button to turn ON the power supply.
- Set the function "CD".
- Press the three buttons , , and  is simultaneously.
- Infinite repetitions is enabled.
- This state is maintained (memorized) until COLD RESET is executed.

[VIDEO BOARD] (SIDE A)

MEMO

SECTION 4 MECHANICAL ADJUSTMENTS

Precaution

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

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

Torque Measurement

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

SECTION 5 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
WS-48B	3 kHz, 0 dB	Tape Speed Adjustment
P-4-L300	315 Hz, 0 dB	Level Adjustment

Record/Playback Head Azimuth Adjustment

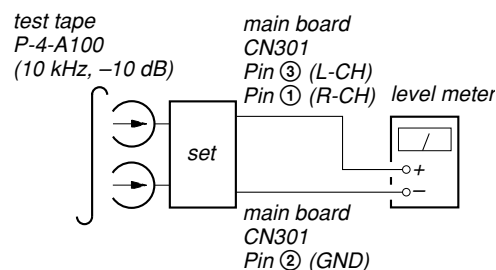
DECK A

DECK B

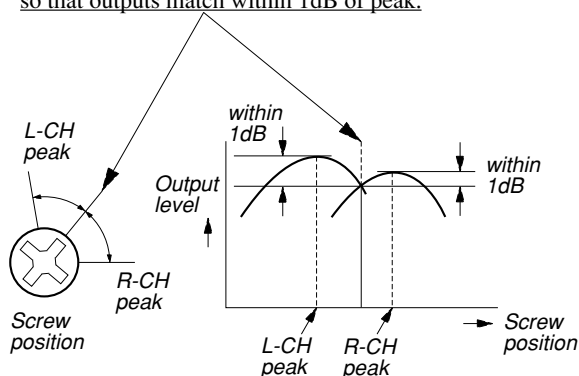
Note: Perform this adjustments for both decks

Procedure:

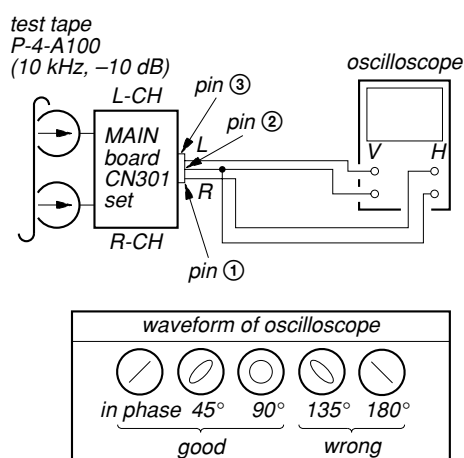
1. Mode: Playback



- 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.

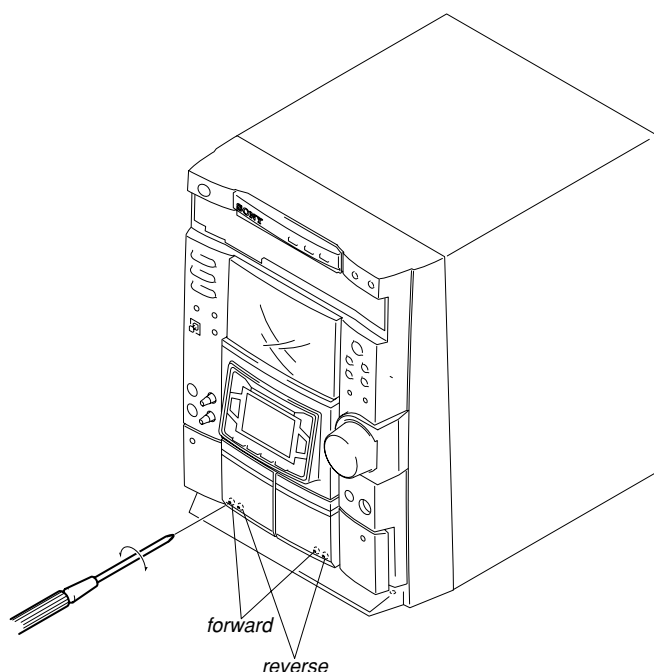


- Mode: Playback



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

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



Tape Speed Adjustment **DECK B**

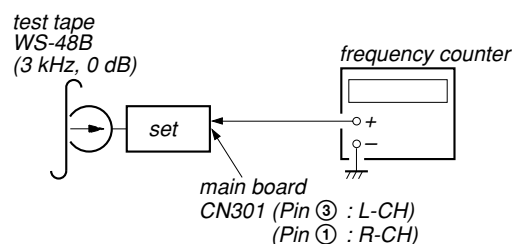
Note: Start the Tape Speed adjustment as below after setting to the test mode.

In the test mode, the tape speed is high during pressing the **CD SYNC HI-DUB** button.

Procedure:

- Turn the power switch on.
- Press the **■** button, **DISPLAY** button and **DISC 3** button simultaneously.
(Cursor segment flash on the FL display tube.)
To exit from the test mode, press the **I/⏻** button.

Mode: Playback



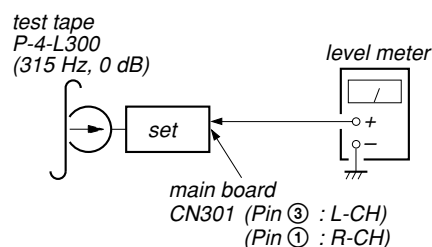
- Insert the WS-48B into the deck B.
- Press the **◀▶** button on the deck B.
- Press the **CD SYNC HI-DUB** button in playback mode.
Then at HIGH speed mode.
- Adjust RV1001 on the LEAF SW board so that frequency counter reads $6,000 \pm 30$ Hz.
- Press the **CD SYNC HI-DUB** button.
Then back to NORMAL speed mode.
- Adjust RV1002 on the LEAF SW board so that frequency counter reads $3,000 \pm 15$ Hz.

Adjustment Location: LEAF SW board

Playback level Adjustment **DECK A** **DECK B**

Procedure:

Mode: Playback



Deck A is RV302 (L-CH), Deck B is RV303 (L-CH) so that adjustment within adjustment level as follows.

Adjustment Level:

CN301 PB level: 334 to 375 mV ($-6.8 \text{ dB} \pm 0.5 \text{ dB}$) level
difference between the channels: within $\pm 0.5 \text{ dB}$

Adjustment Location: MAIN board

Sample Value of Wow and Flutter: 0.3% or less W. RMS
(WS-48B)

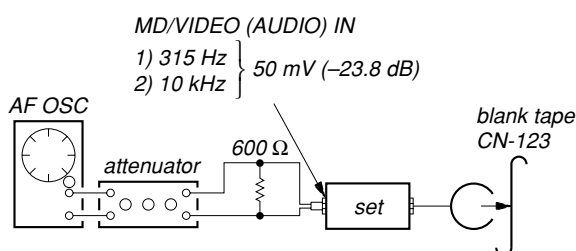
REC Bias Adjustment [DECK B]**Procedure:****INTRODUCTION**

When set to the test mode performed in Tape Speed Adjustment, when the tape is rewound after recording, the "REC memory mode" which rewinds only the recorded portion and playback is set.

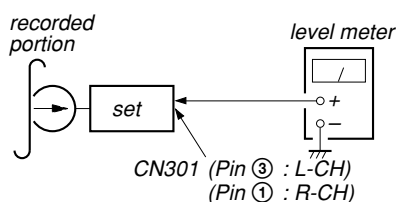
This "REC memory mode" is convenient for performing this adjustment. During recording, the input signal FUNCTION will automatically switch to VIDEO.

(If do not operation of stopped from recording complete, and rotette of shuttle knob then rewind to recording start position.)

1. Press **[MD (VIDEO)]** button to select VIDEO. (This step is not necessary if the above test mode has already been set.)
2. Insert a tape into deck B.
3. After press **[REC PAUSE/START]** button, press **[REC PAUSE/START]** button, then recording start.
4. Mode: Record



5. Mode: Playback



6. Confirm playback the signal recorded in step 3 become adjustable level as follows.
If these levels do not adjustable level, adjustment the RV304 (L-CH) and RV354 (R-CH) on the AUDIO board to repeat steps 4 and 5.

Adjustable level: Playback output of 315 Hz to playback output of 10 kHz: ± 1.0 dB

Adjustment Location: MAIN board

REC Level Adjustment [DECK B]**Procedure:****INTRODUCTION**

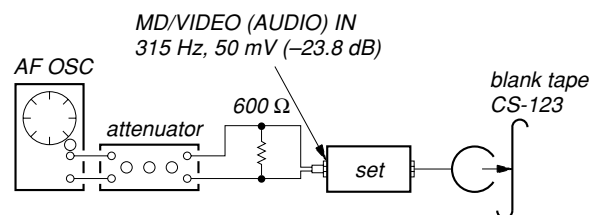
When set to the test mode performed in Tape Speed Adjustment, when the tape is rewound after recording, the "REC memory mode" which rewinds only the recorded portion and playback is set.

This "REC memory mode" is convenient for performing this adjustment. During recording, the input signal FUNCTION will automatically switch to VIDEO.

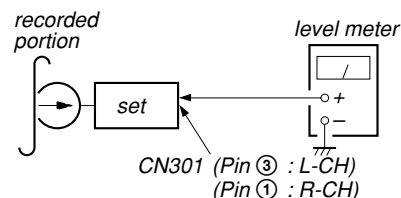
(If do not operation of stopped from recording complete, and rotate of shuttle knob then rewind to recording start position.)

1. Press **[MD (VIDEO)]** button to select VIDEO. (This step is not necessary if the above test mode has already been set.)
2. Insert a tape into deck B.
3. After press **[REC PAUSE/START]** button, press **[REC PAUSE/START]** button, then recording start.

4. Mode: Record



5. Mode: Playback



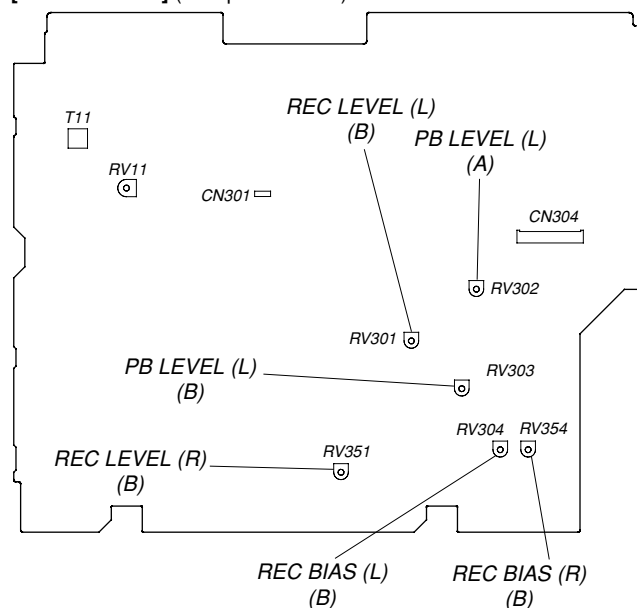
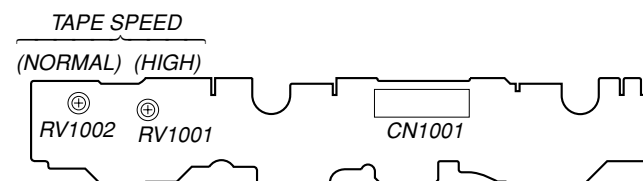
6. Confirm playback the signal recorded in step 3 become adjustable level as follows.

If these levels do not adjustable level, adjustment the RV301 (L-CH) and RV351 (R-CH) on the MAIN board to repeat steps 4 and 5.

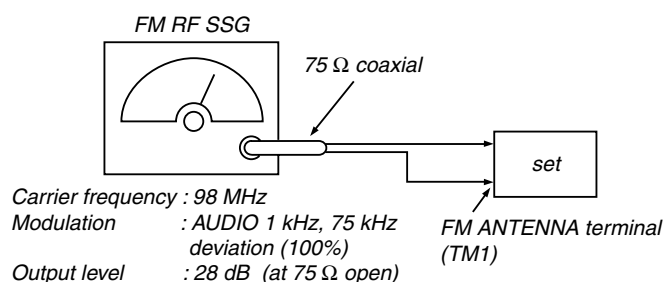
Adjustable level:

CN301 PB level: 33.4 to 37.5 mV (-27.3 to -26.3 dB)

Adjustment Location: MAIN board

[MAIN BOARD] (Component Side)**[LEAF SW BOARD] (Component Side)**

FM Tuned Level Adjustment

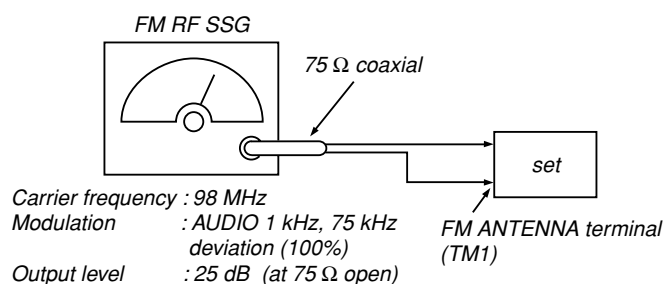


Procedure:

1. Supply a 28 dB 98 MHz signal from the ANTENNA terminal.
2. Tune the set to 98 MHz.
3. Adjust RV11 to the point (moment) when the TUNED indicator will change from going off to going on.

Adjustment Location: MAIN board

Null Adjustment



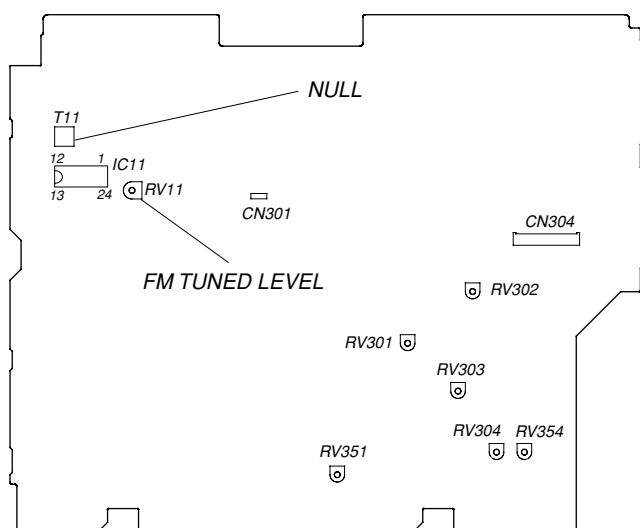
Procedure:

1. Supply a 25 dB 98 MHz signal from the ANTENNA terminal.
2. Tune the set to 98 MHz.
3. Measure voltage between pin 22 and pin 3 of IC 11. Adjust T11 until the voltage becomes 0 V.

Adjustment Location: MAIN board

Adjustment Location

[MAIN BOARD] Component side

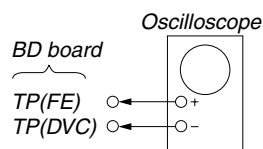


CD SECTION

Note :

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

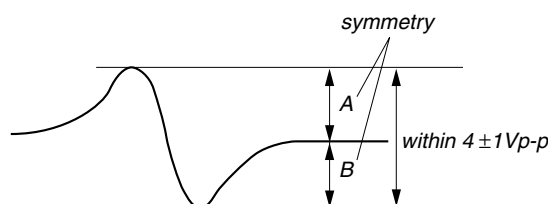
S-Curve Check



Procedure :

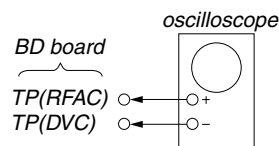
1. Connect oscilloscope to TP (FEO).
2. Connect between TP (FE) and TP (DVC) by lead wire.
3. Turn Power switch on.
4. Load a disc (YEDS-18) and actuate the focus search. (In consequence of open and close the disc tray, actuate the focus search)
5. Confirm that the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 4 ± 1 Vp-p.

S-curve waveform



7. After check, remove the lead wire connected in step 2.
- 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.

RF Level Check

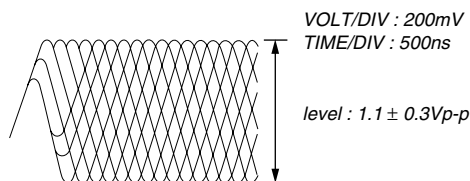


Procedure :

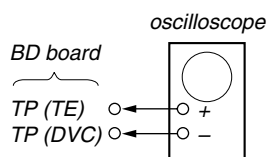
1. Connect oscilloscope to TP (RFAC).
2. Turned Power switch on.
3. Load a disc (YEDS-18) and playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.
5. Measure the RFDC in the same way.

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

RF signal waveform



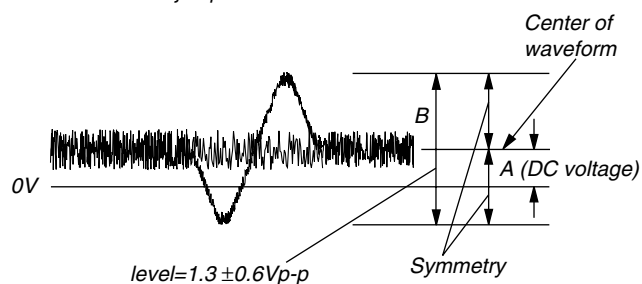
E-F Balance (1 Track jump) Adjustment



Procedure:

1. Connect oscilloscope to TP (TE) and TP (DVC) board.
2. Turned Power switch on.
3. Load a disc (YEDS-18) and playback the number five track.
4. Press the button. (Becomes the 1track jump mode.)
5. Confirm that the level B and A (DC voltage) on the oscilloscope waveform.

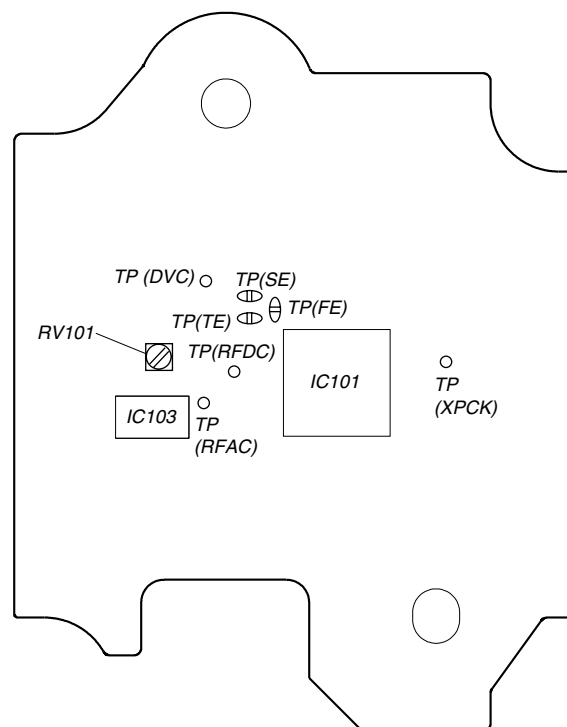
1 track jump waveform



Specification level: $\times 100 = \text{less than } \pm 22\%$

Adjustment Location :

[BD (CD) BOARD] — SIDE B —

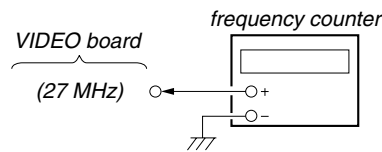


6. Adjust RV101 so that (DC voltage) becomes 0.
7. After check, remove the lead wire connected in step 1.

VIDEO SECTION

Frequency Adjustment

Connection:

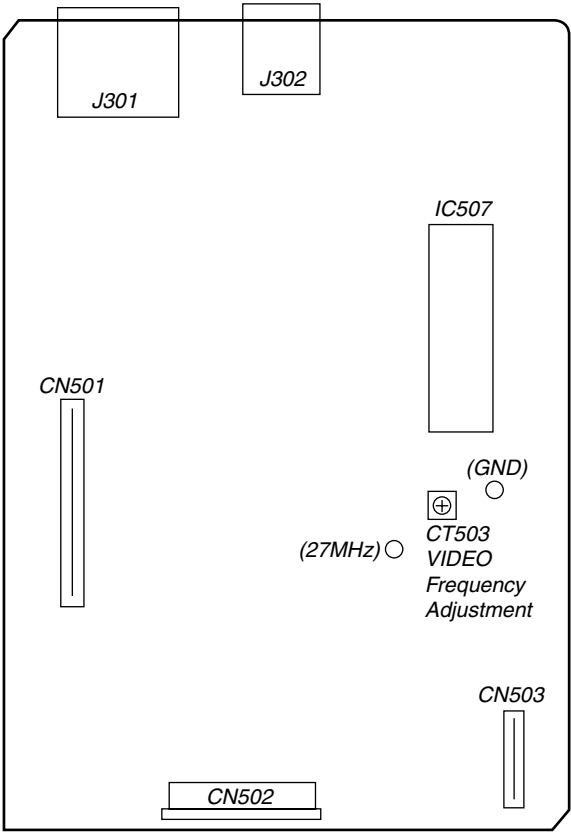


Procedure:

- 1. Connect the frequency counter to check point of the VIDEO board.
- 2. Turned power switch on.
- 3. Press the [CD] button to select the CD.
- 4. Adjust CT503 on the VIDEO board so that the frequency counter reading $27.0\text{ MHz} \pm 80\text{ Hz}$ at stop status.

Adjustment Location:

[VIDEO BOARD] (SIDE A)



SECTION 6 DIAGRAMS

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.

(In addition to this, the necessary note is printed in each block.)

Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF: $\mu\mu\text{F}$ 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4} W$ or less unless otherwise specified.
- $\triangle$: internal component.
- : panel designation.

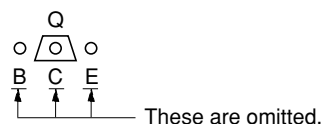
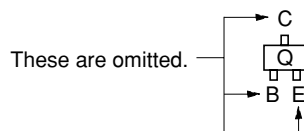
Note:

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

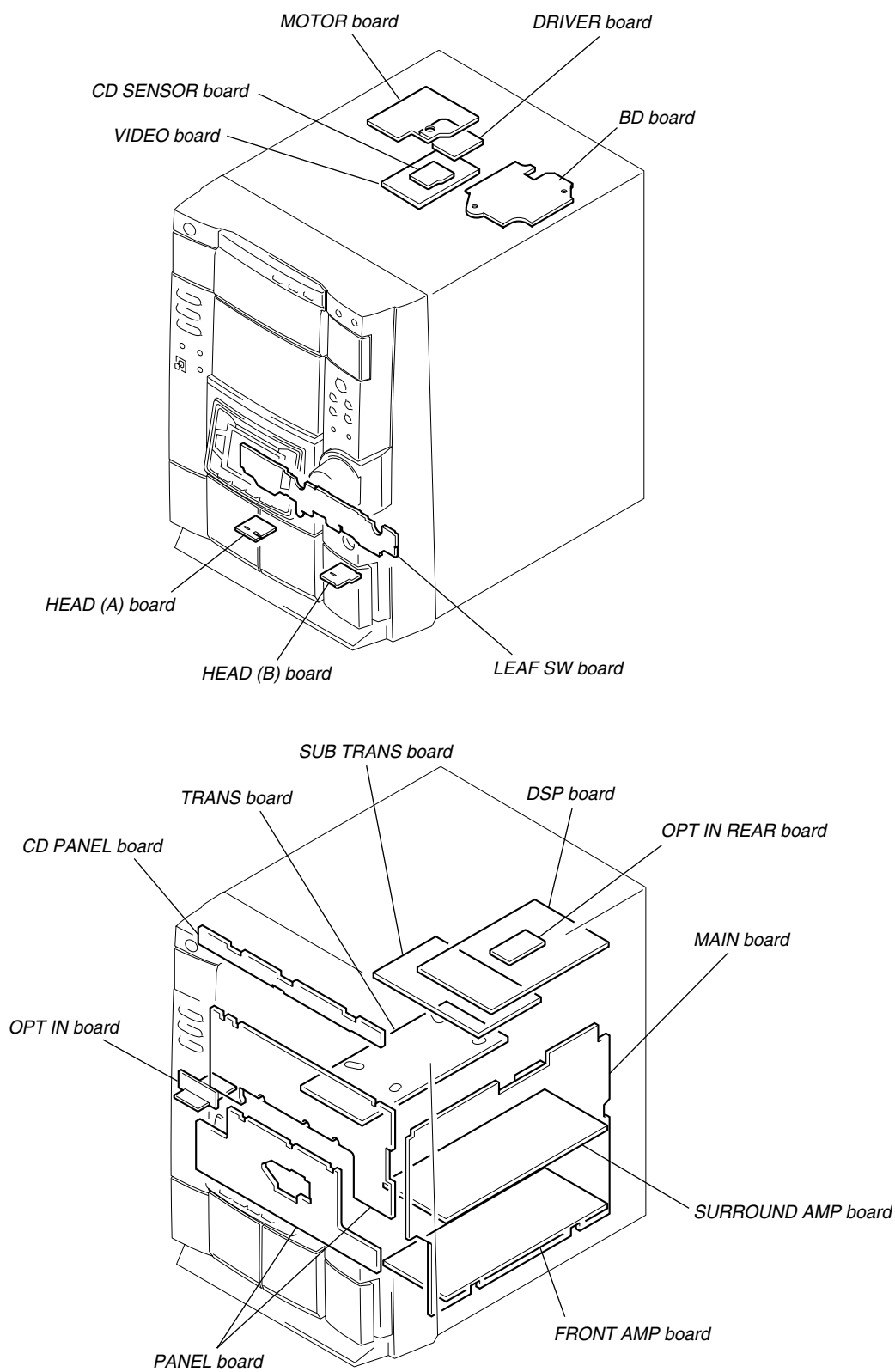
- — : B+ Line.
- - - - : B- Line.
- □ : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance 10 M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 - ⇨ : FM
 - ➡ : AM
 - ⌞ : PB (DECK A)
 - ⌞ : PB (DECK B)
 - ⌞ : REC (DECK B)
 - ⌞ : CD
 - ⌞ : digital out
 - ⌞ : MD (VIDEO)
- Abbreviation
 - SP : Singapore model
 - MY : Malaysia model
 - TH : Thai model

Note on Printed Wiring Boards:

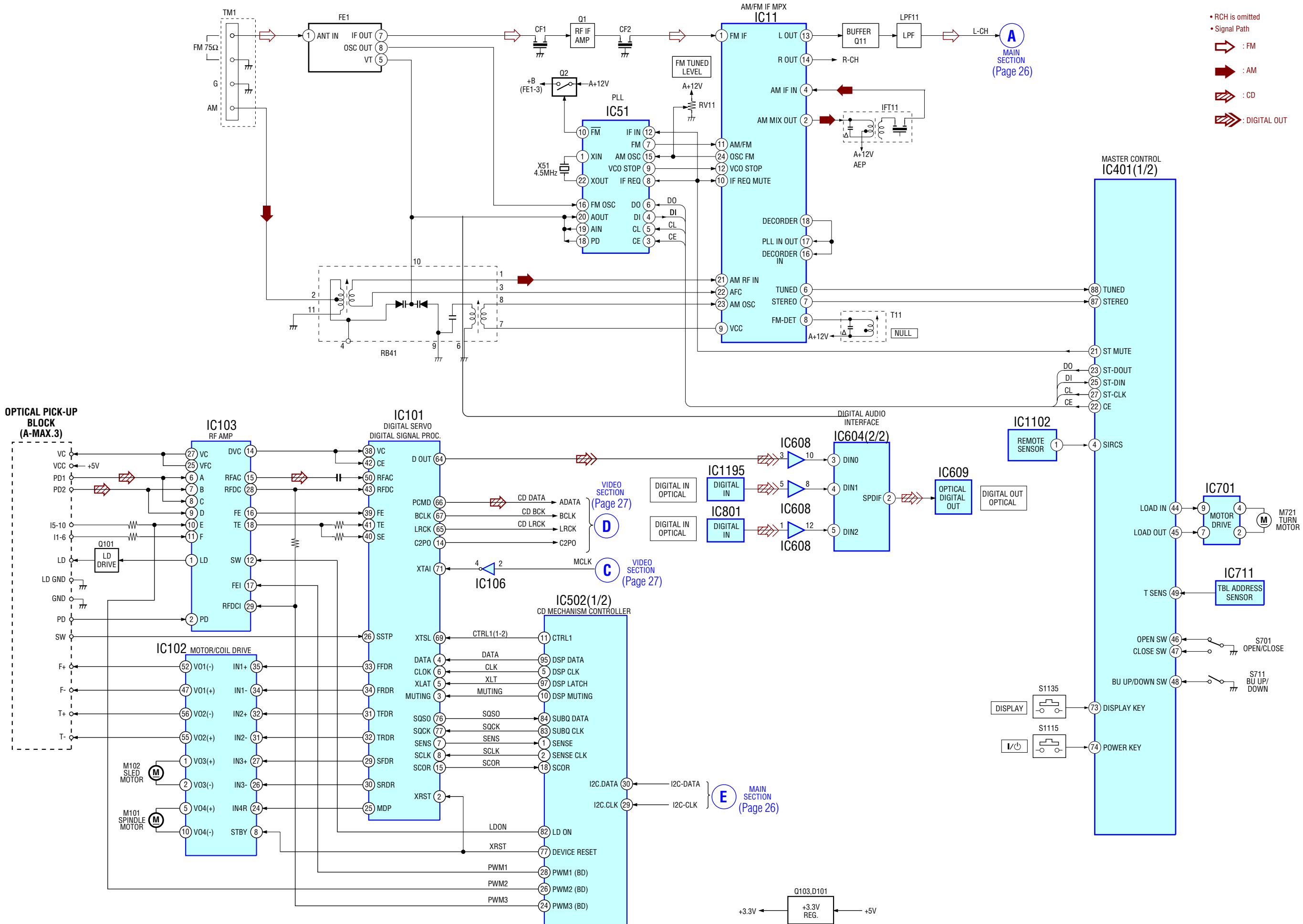
- : parts extracted from the component side.
- : Pattern from the side which enables seeing.
- Indication of transistor.



6-1. CIRCUIT BOARD LOCATION

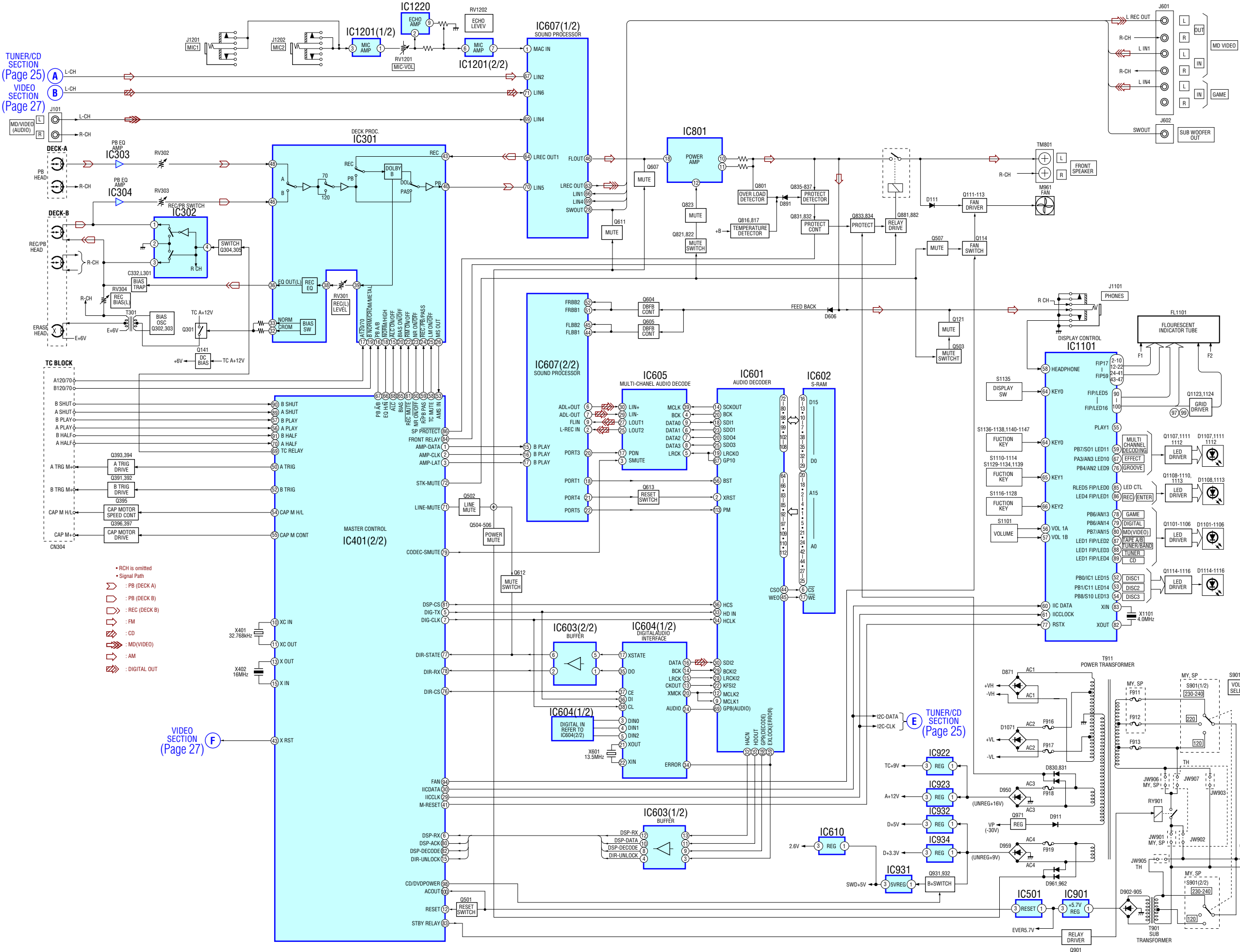


6-2. BLOCK DIAGRAMS
- TUNER/CD SECTION -



HCD-VP700

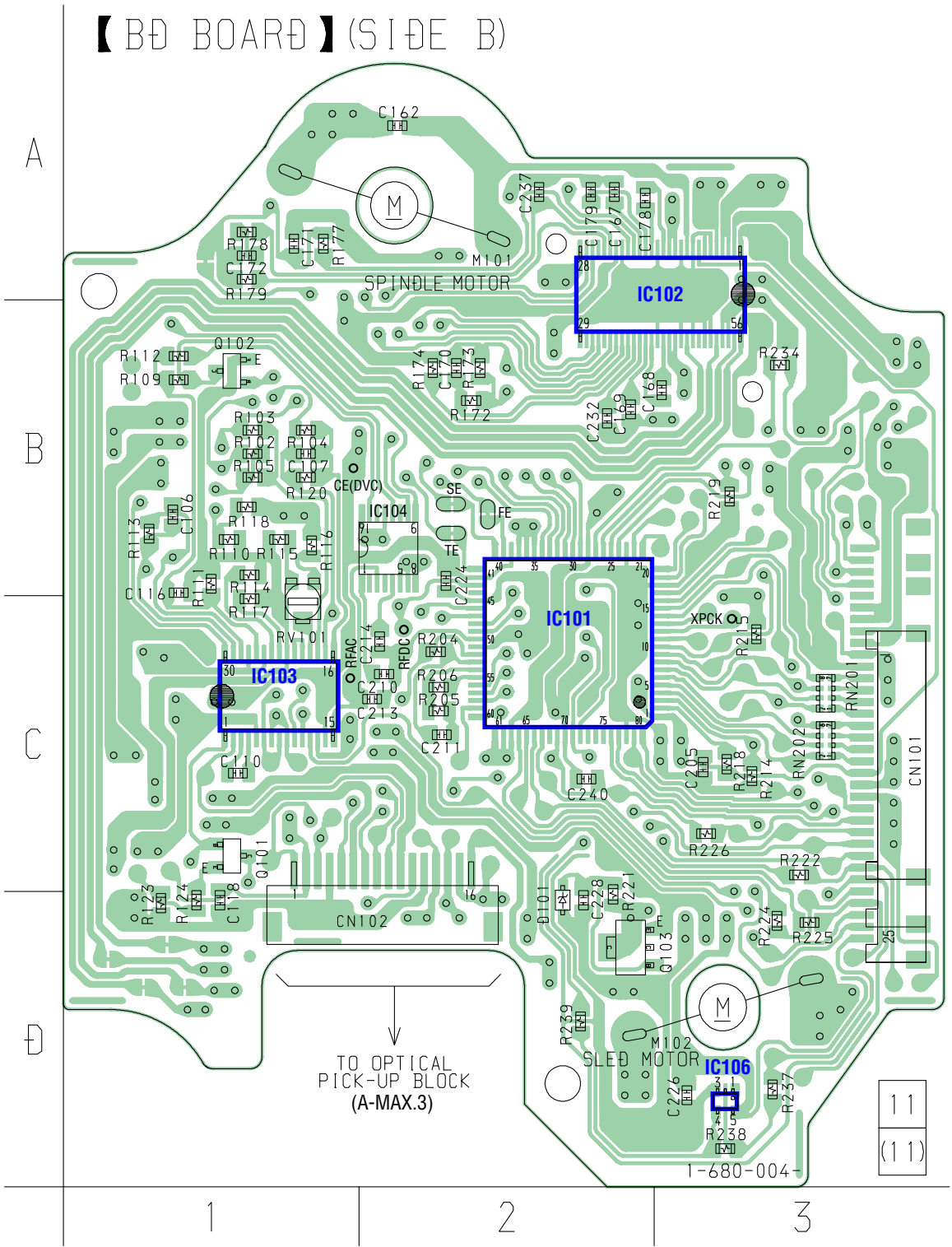
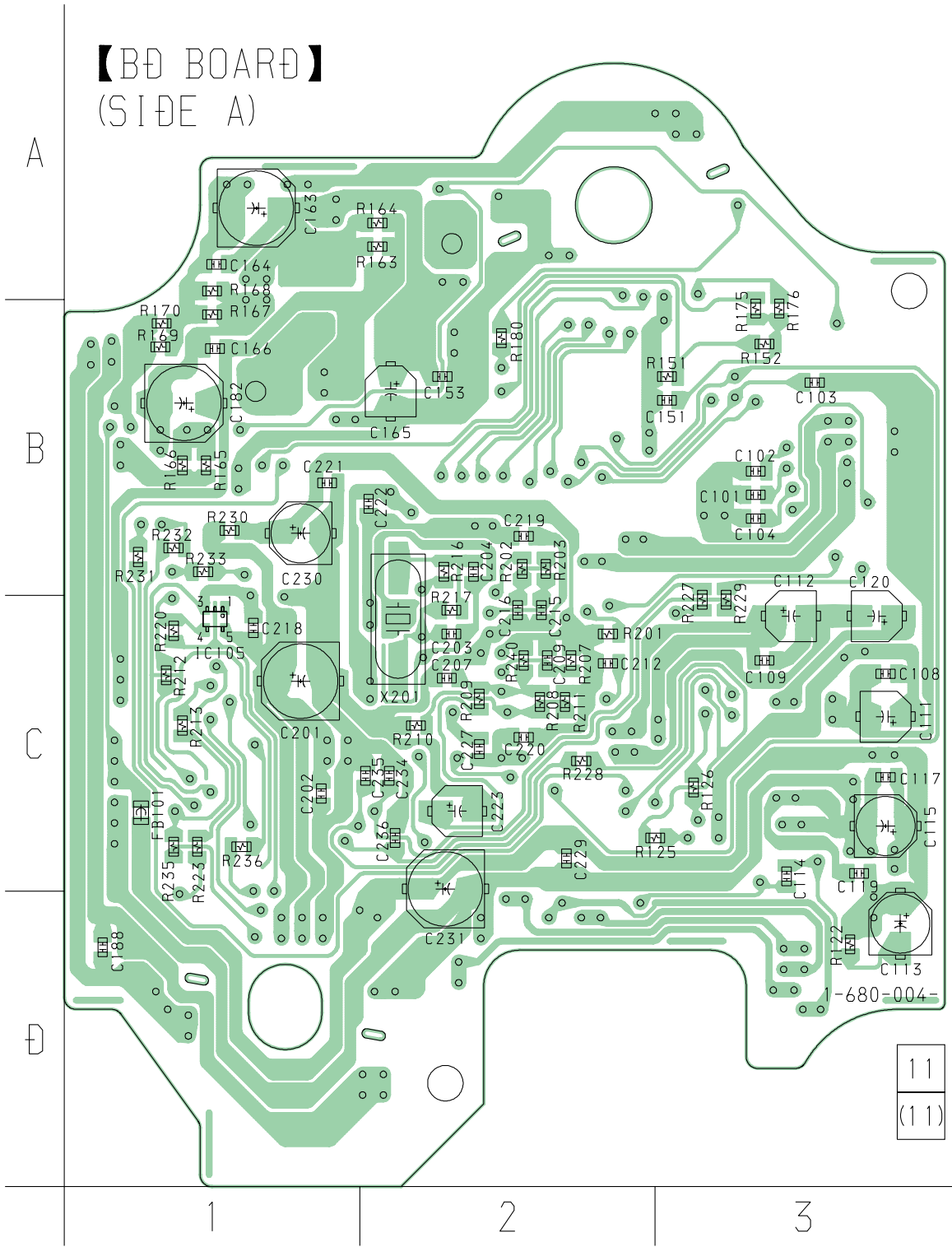
– MAIN SECTION –







6-4. PRINTED WIRING BOARD – BD SECTION – • See page 24 for Circuit Boards Location.



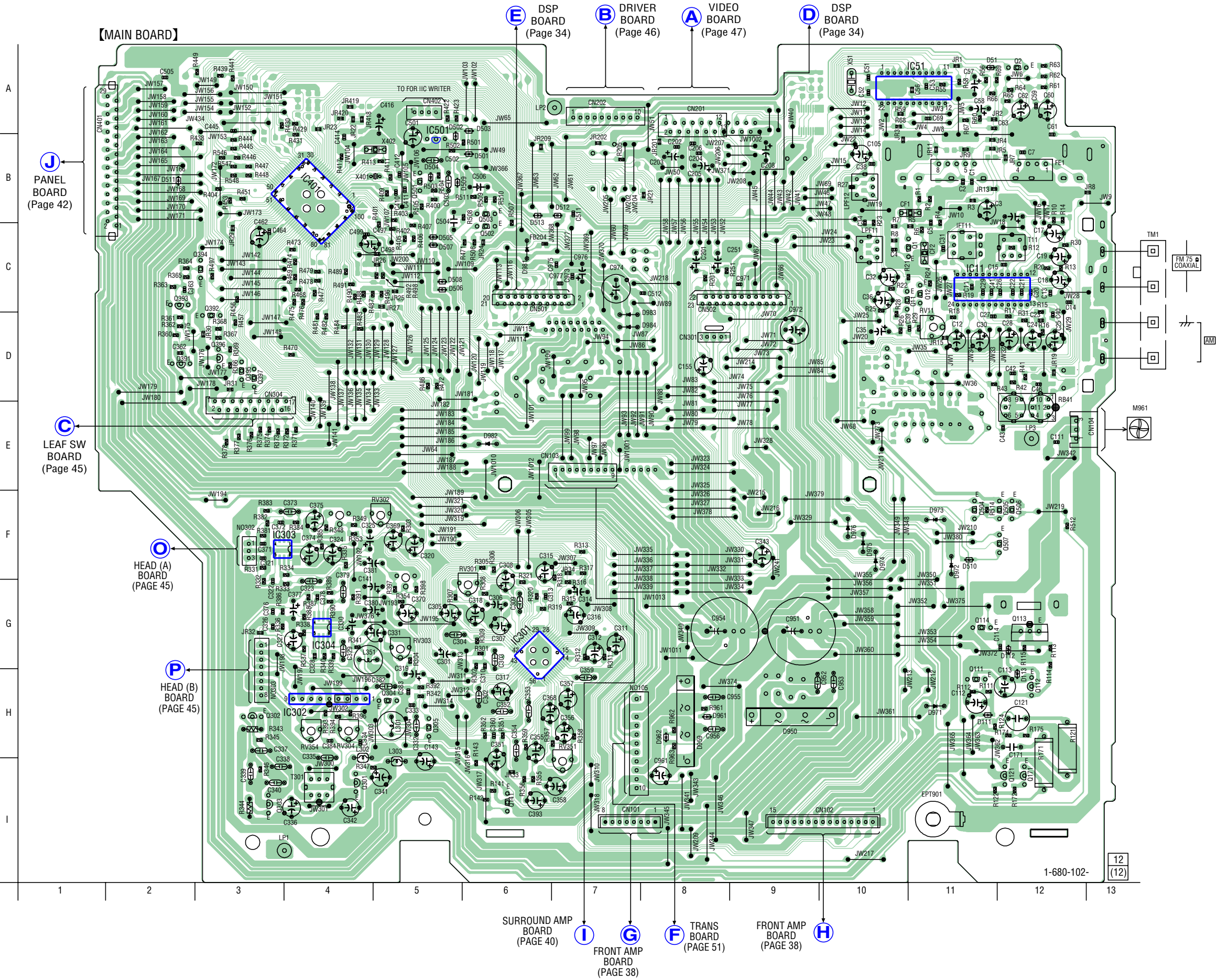
• Semiconductor Location

Ref. No.	Location
D101	D-2
IC101	C-2
IC102	A-3
IC103	C-1
IC106	D-3
Q101	C-1
Q103	D-2

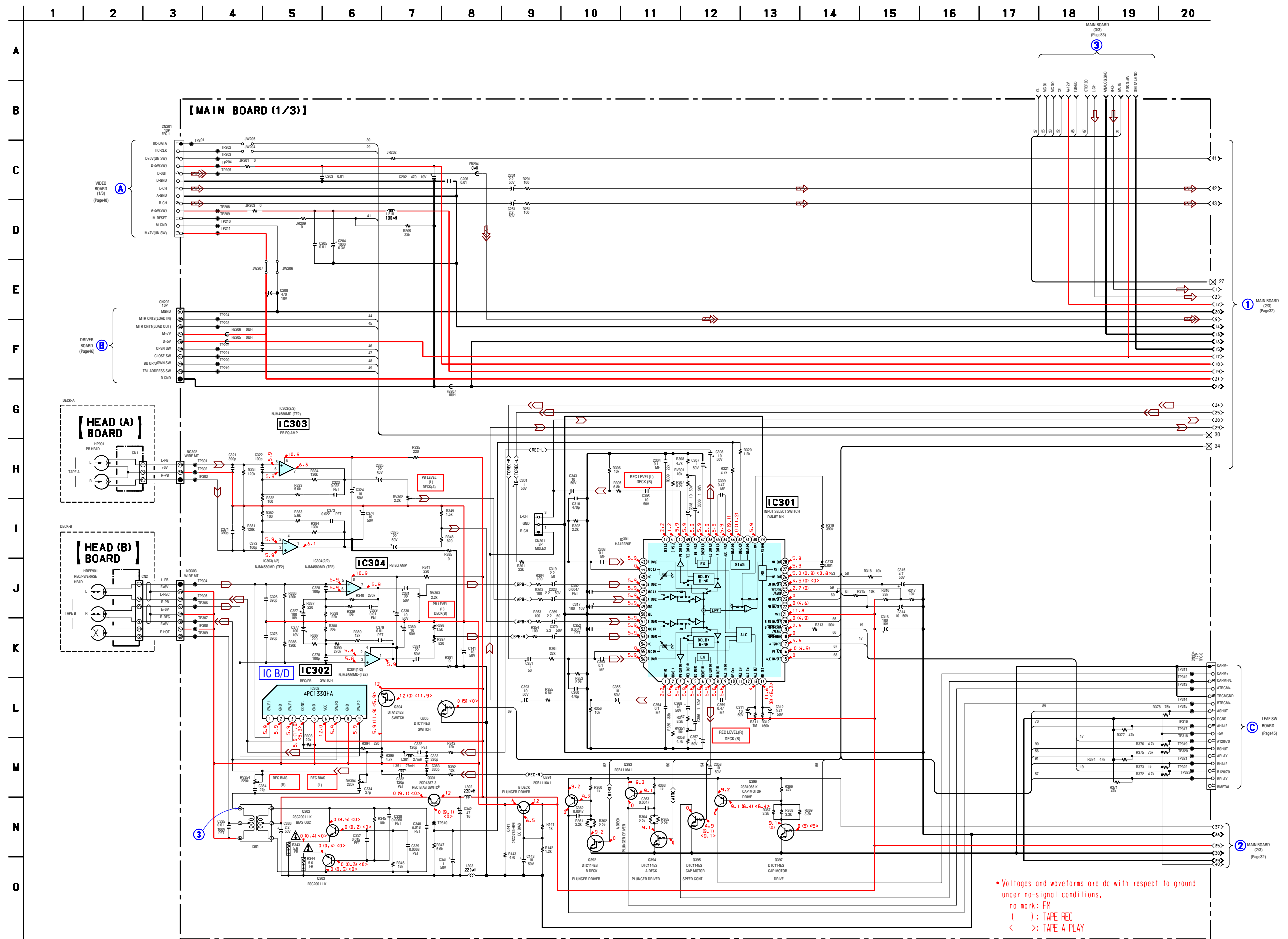
6-5. PRINTED WIRING BOARD – MAIN SECTION – • See page 24 for Circuit Boards Location.

• Semiconductor Location

Ref. No.	Location
D51	A-11
D111	H-11
D112	G-12
D113	H-12
D501	B-5
D502	B-5
D503	B-6
D504	B-5
D505	C-5
D506	C-5
D507	C-5
D508	C-5
D509	B-5
D510	F-11
D511	B-2
D512	B-7
D513	B-6
D950	H-9
D959	H-8
D961	H-8
D962	H-8
D971	H-11
D972	F-11
D973	F-11
D974	F-10
D975	F-10
D976	F-10
D981	C-6
D982	E-6
D983	D-7
D984	D-7
IC11	C-11
IC51	A-10
IC301	G-6
IC302	H-4
IC303	F-3
IC304	G-4
IC401	B-4
IC501	B-5
Q1	C-10
Q2	A-12
Q11	C-10
Q12	C-11
Q111	H-11
Q112	H-12
Q113	G-12
Q114	G-11
Q121	I-12
Q141	I-6
Q171	I-12
Q301	I-4
Q302	H-3
Q303	I-3
Q304	H-5
Q305	H-5
Q391	D-2
Q392	D-3
Q393	C-2
Q394	C-3
Q395	D-3
Q396	D-3
Q397	D-3
Q501	B-5
Q502	C-6
Q503	B-6
Q504	F-11
Q505	F-11
Q506	F-12
Q507	F-12



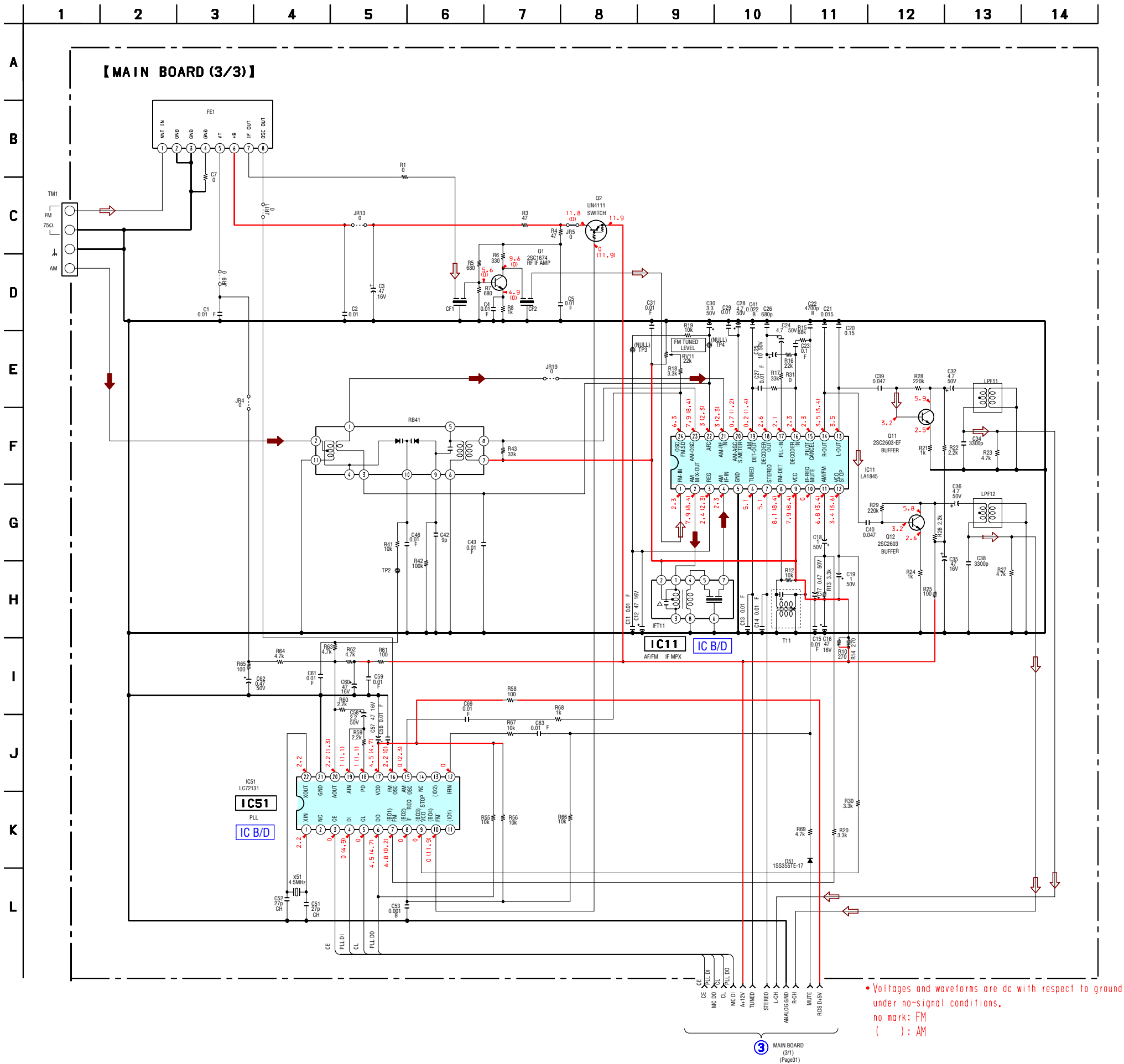
6-6. SCHEMATIC DIAGRAM – MAIN (1/3) SECTION – • See page 53 for Waveforms. • See page 63 for IC Block Diagrams.



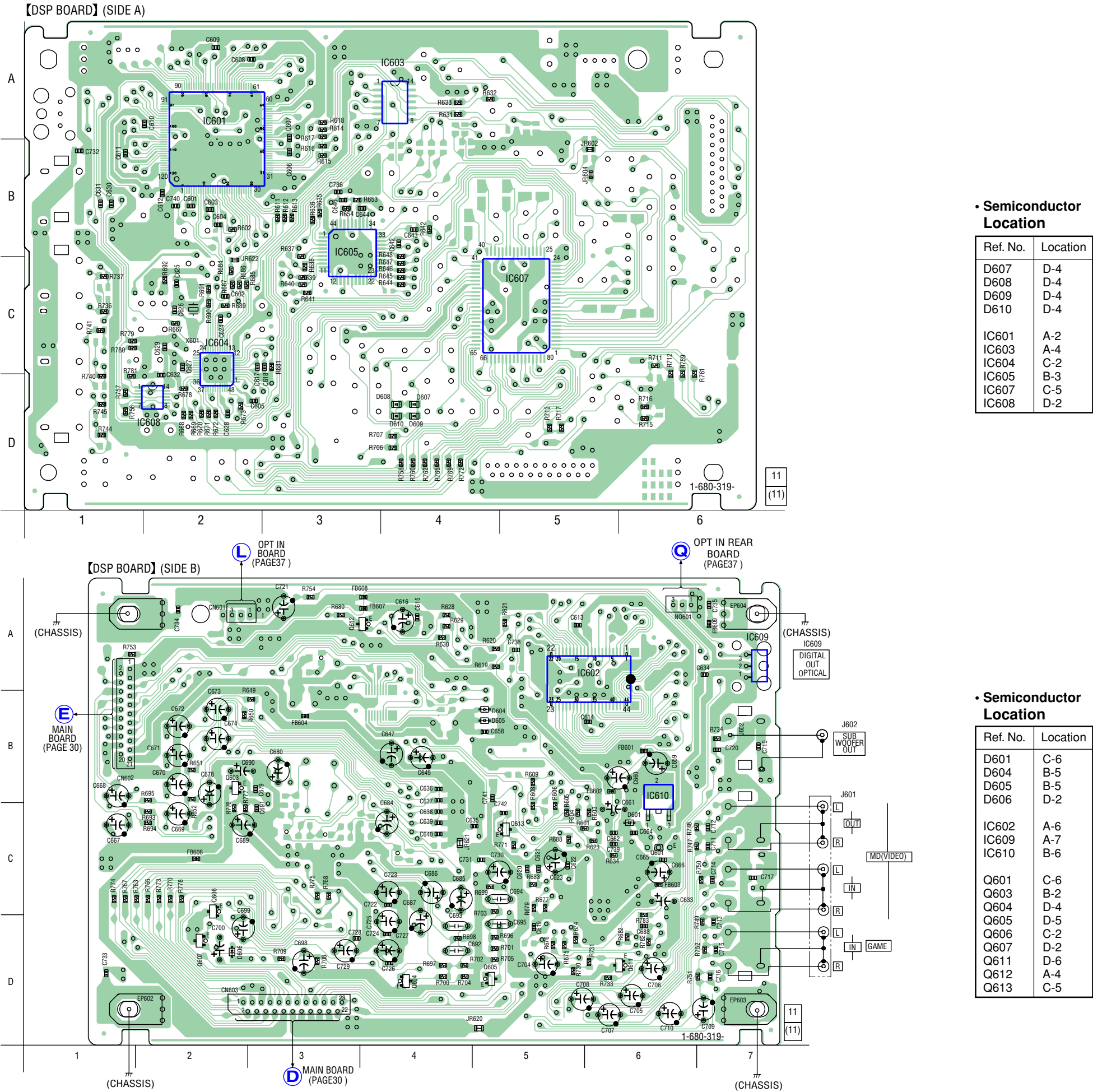
6-7. SCHEMATIC DIAGRAM – MAIN (2/3) SECTION – • See page 53 for Waveforms. • See page 56 for IC Pin Function.



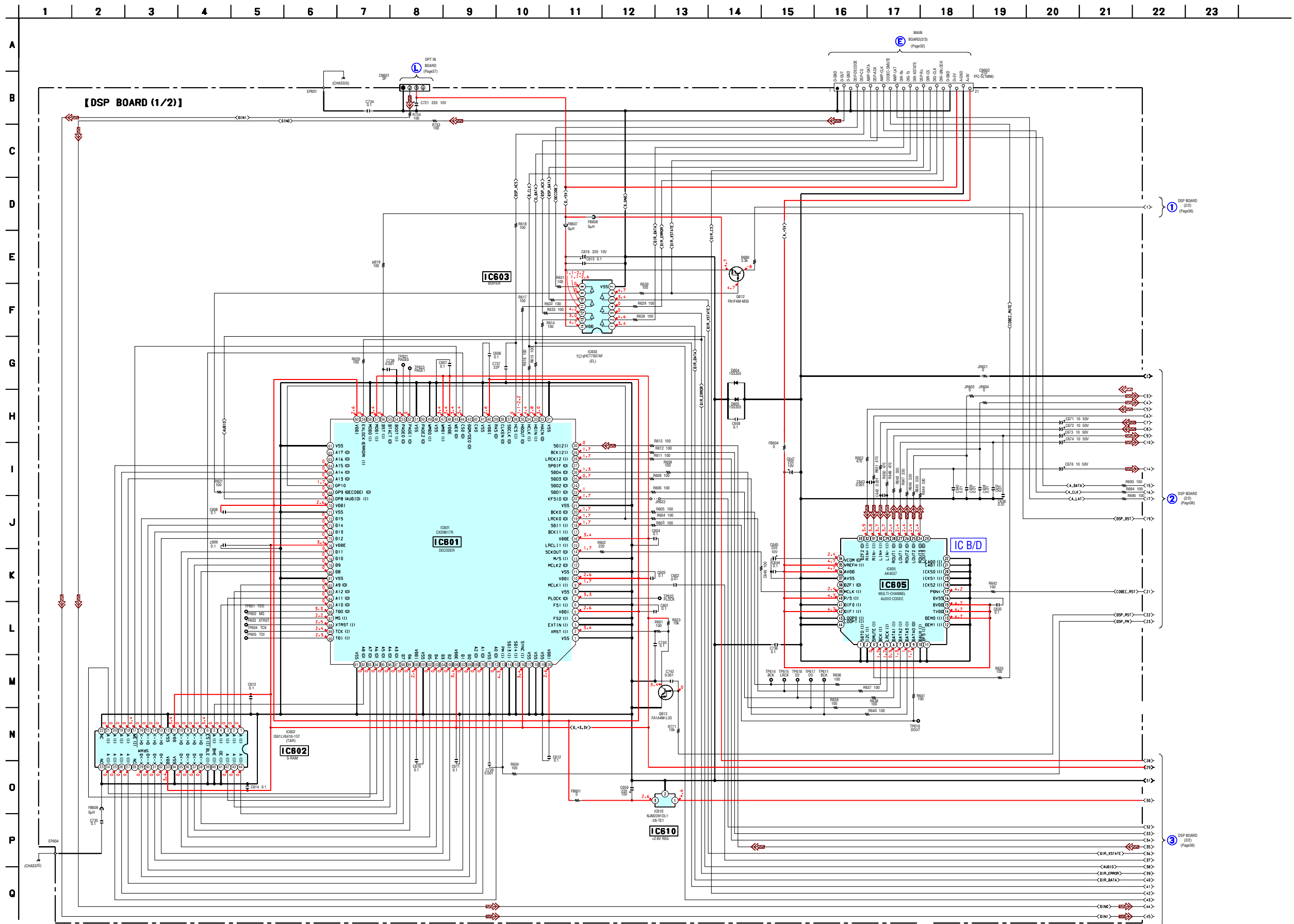
6-8. SCHEMATIC DIAGRAM – MAIN (3/3) SECTION – • See page 63, 64 for IC Block Diagrams.



6-9. PRINTED WIRING BOARD – DSP SECTION – • See page 24 for Circuit Boards Location.

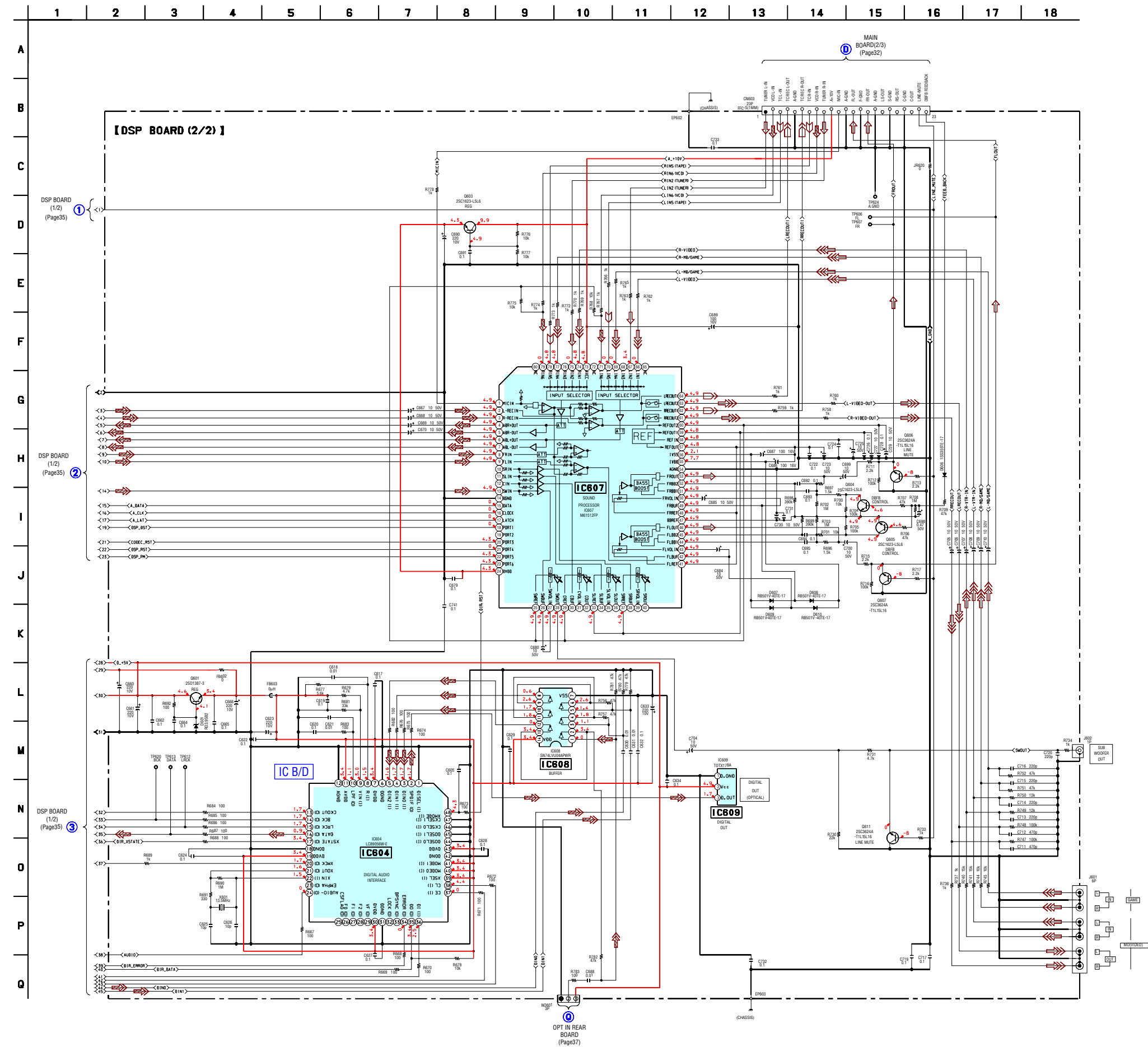


6-10. SCHEMATIC DIAGRAM – DSP (1/2) SECTION – • See page 65 for IC Block Diagrams. • See page 59 for IC Pin Function.

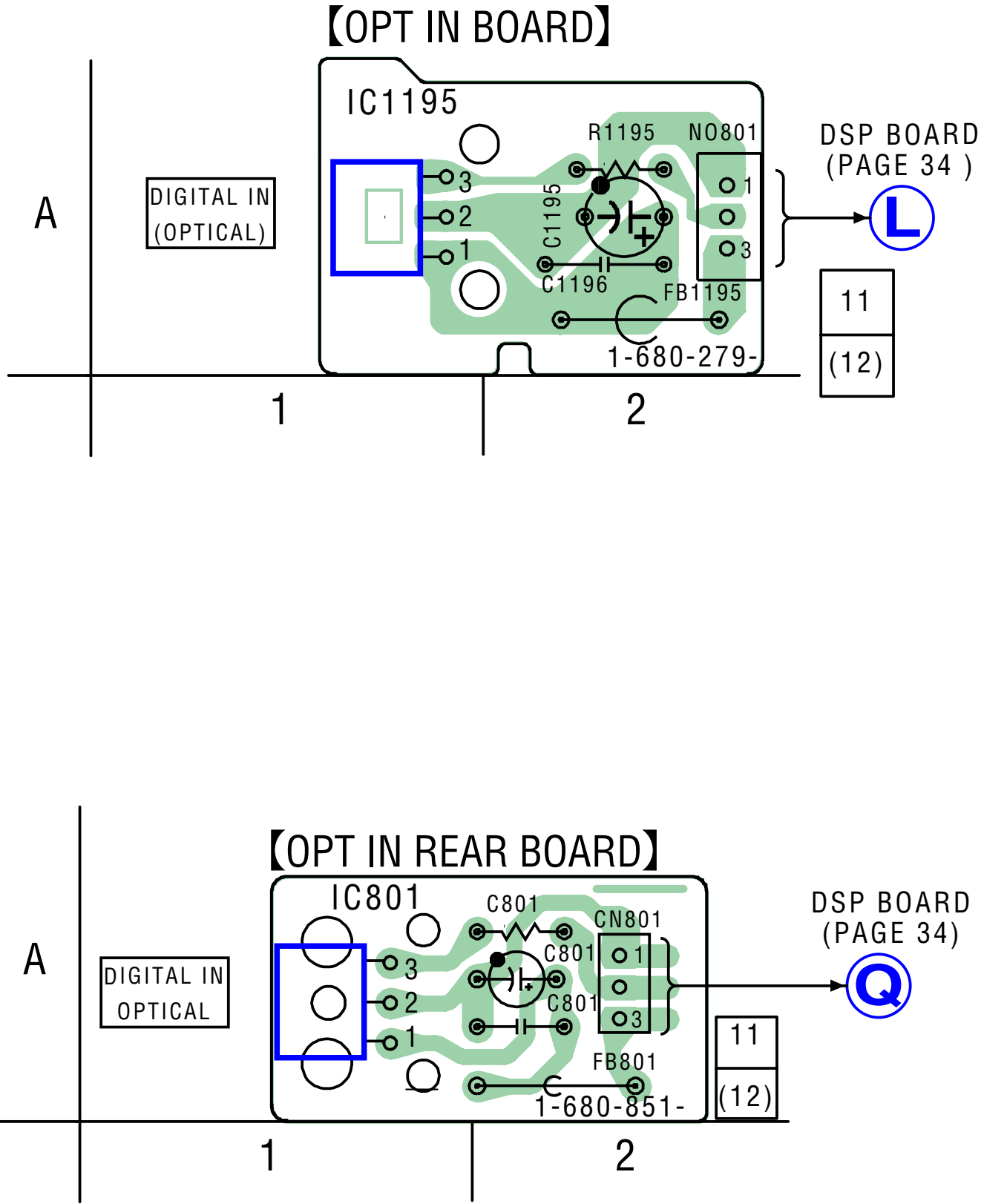


• Voltages and waveforms are dc with respect to ground under no-signal conditions, no mark-CD PLAY

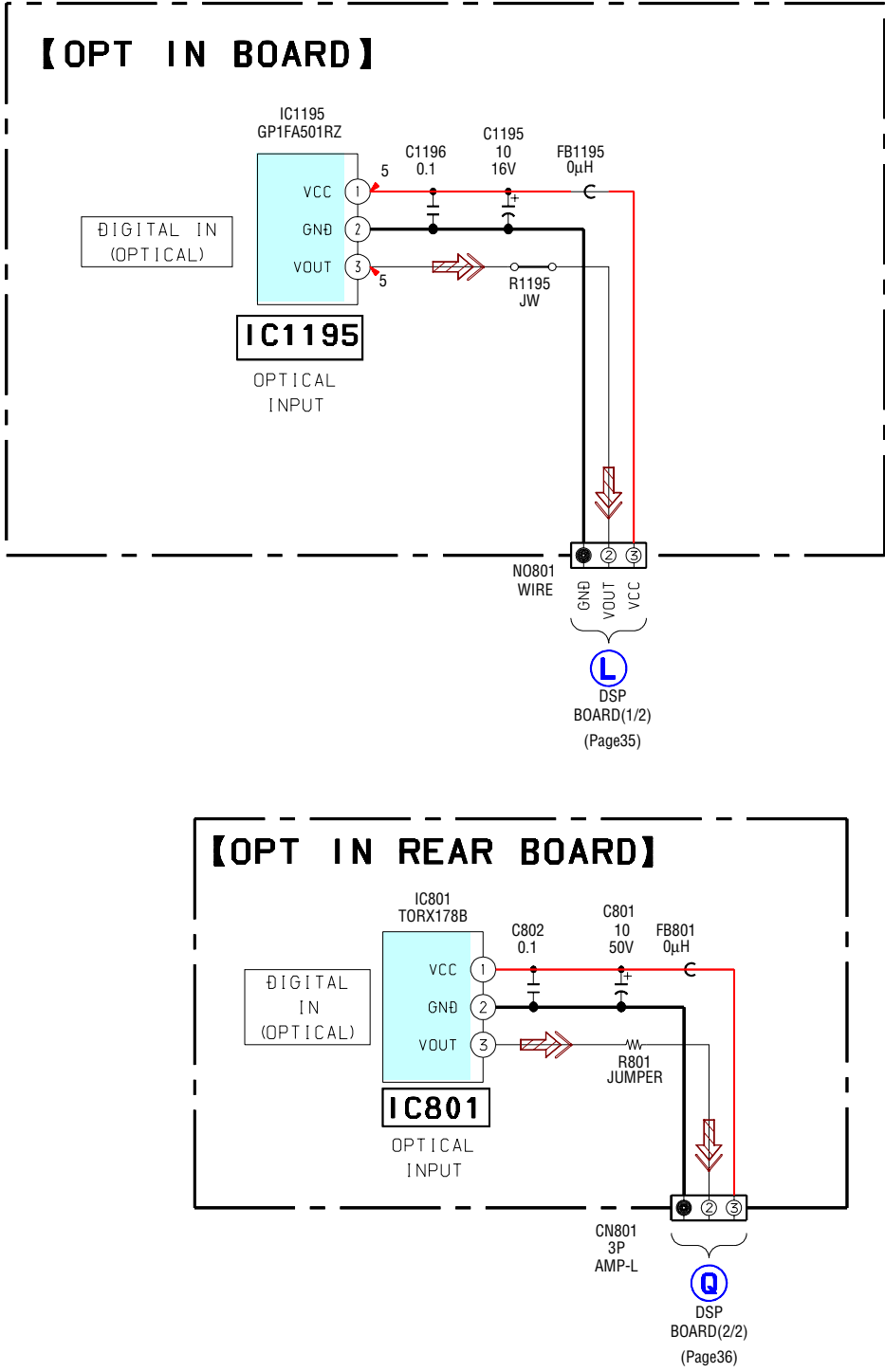
6-11. SCHEMATIC DIAGRAM – DSP (2/2) SECTION – • See page 65 for IC Block Diagrams. –



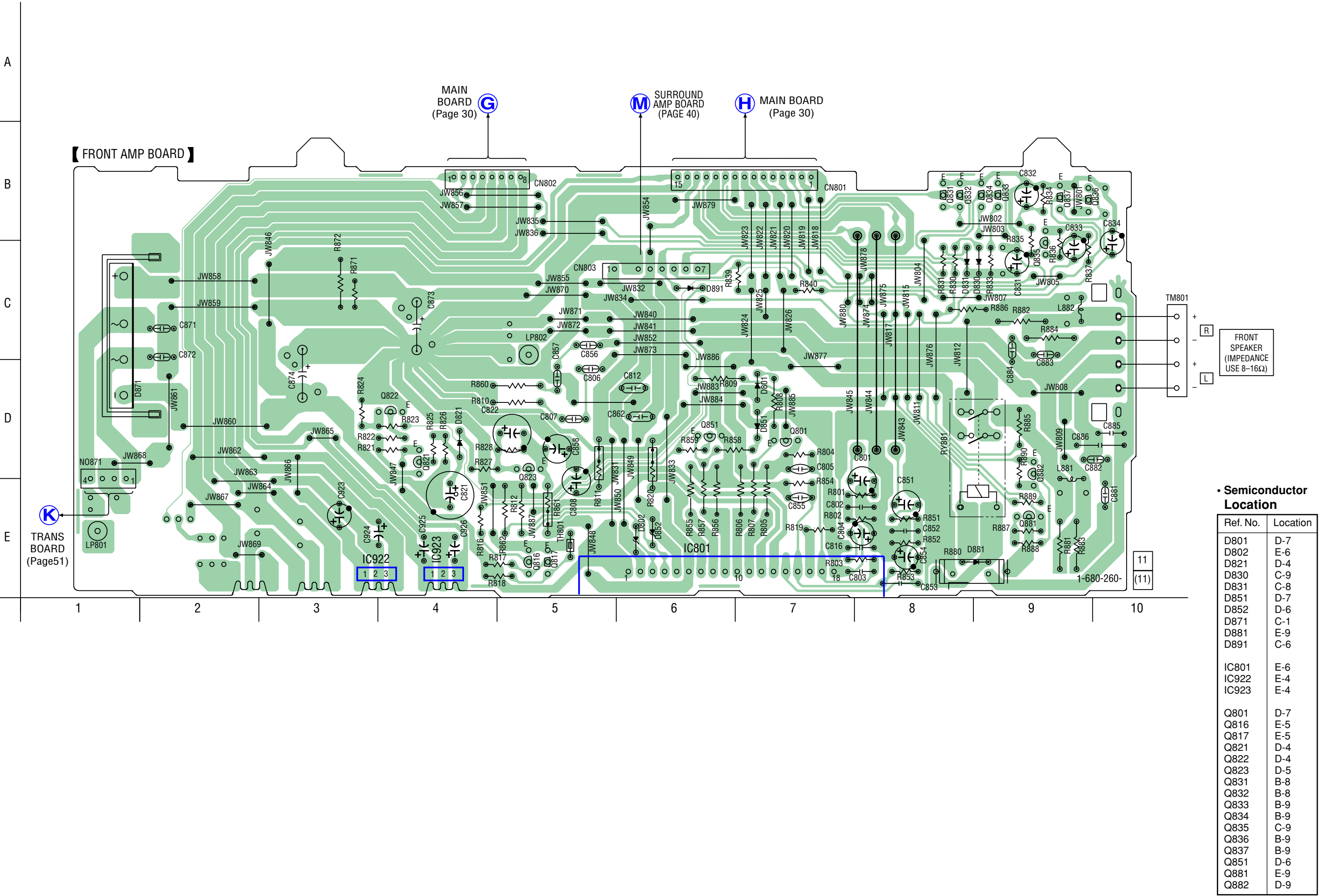
6-12. PRINTED WIRING BOARD – OPT SECTION – • See page 24 for Circuit Boards Location.



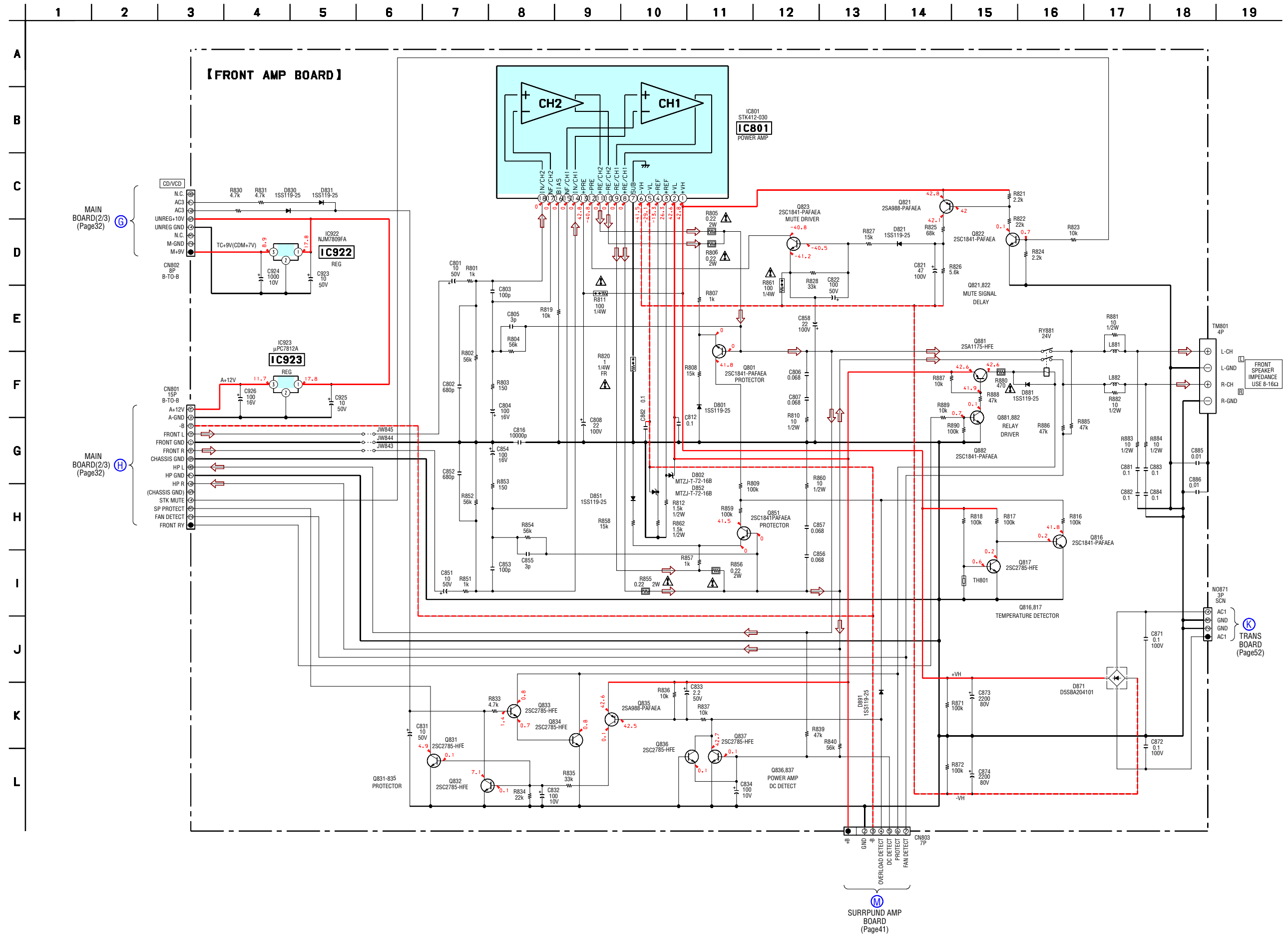
6-13. SCHEMATIC DIAGRAM – OPT SECTION –



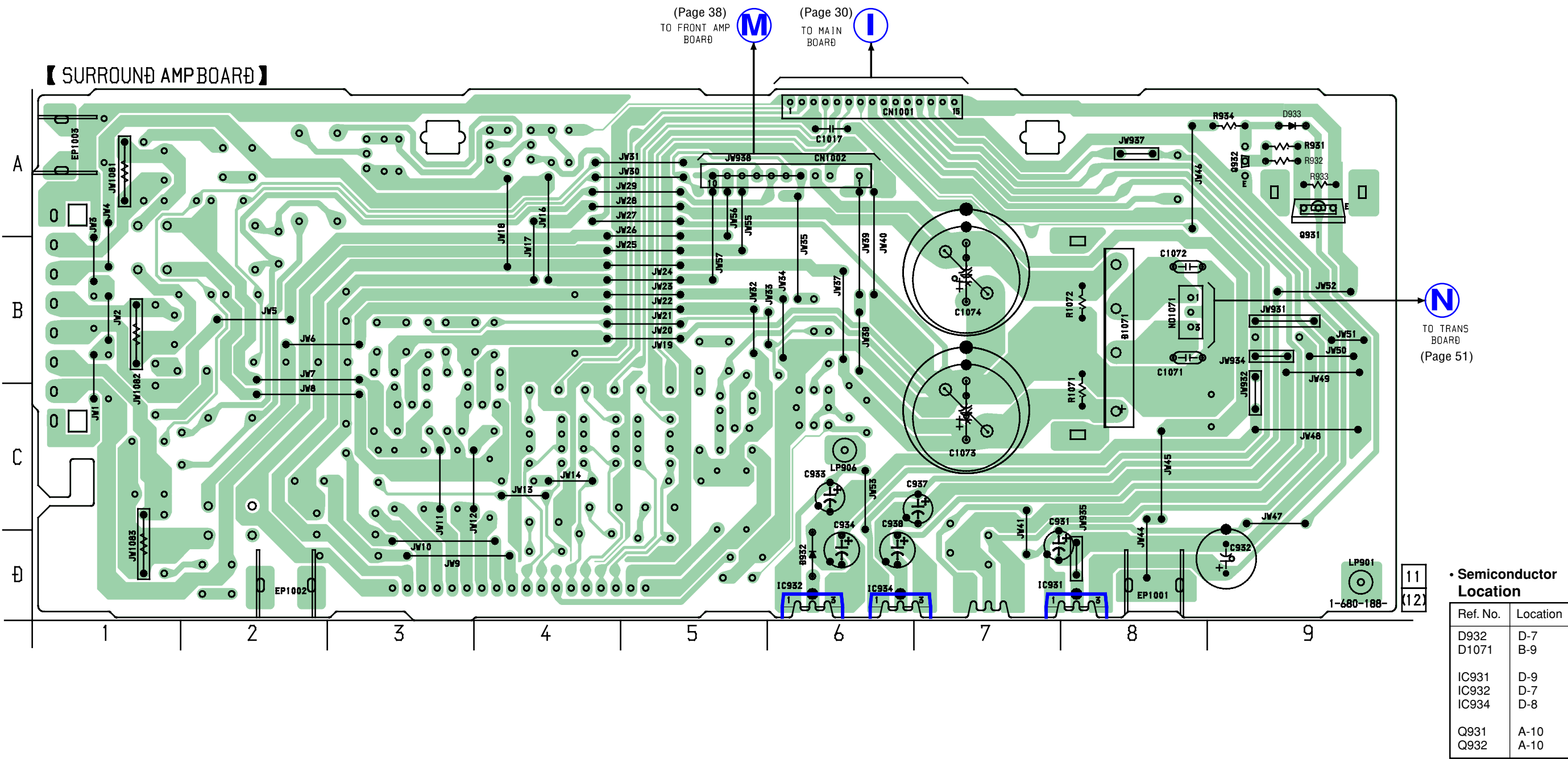
6-14. PRINTED WIRING BOARD – FRONT AMP SECTION – • See page 24 for Circuit Boards Location.



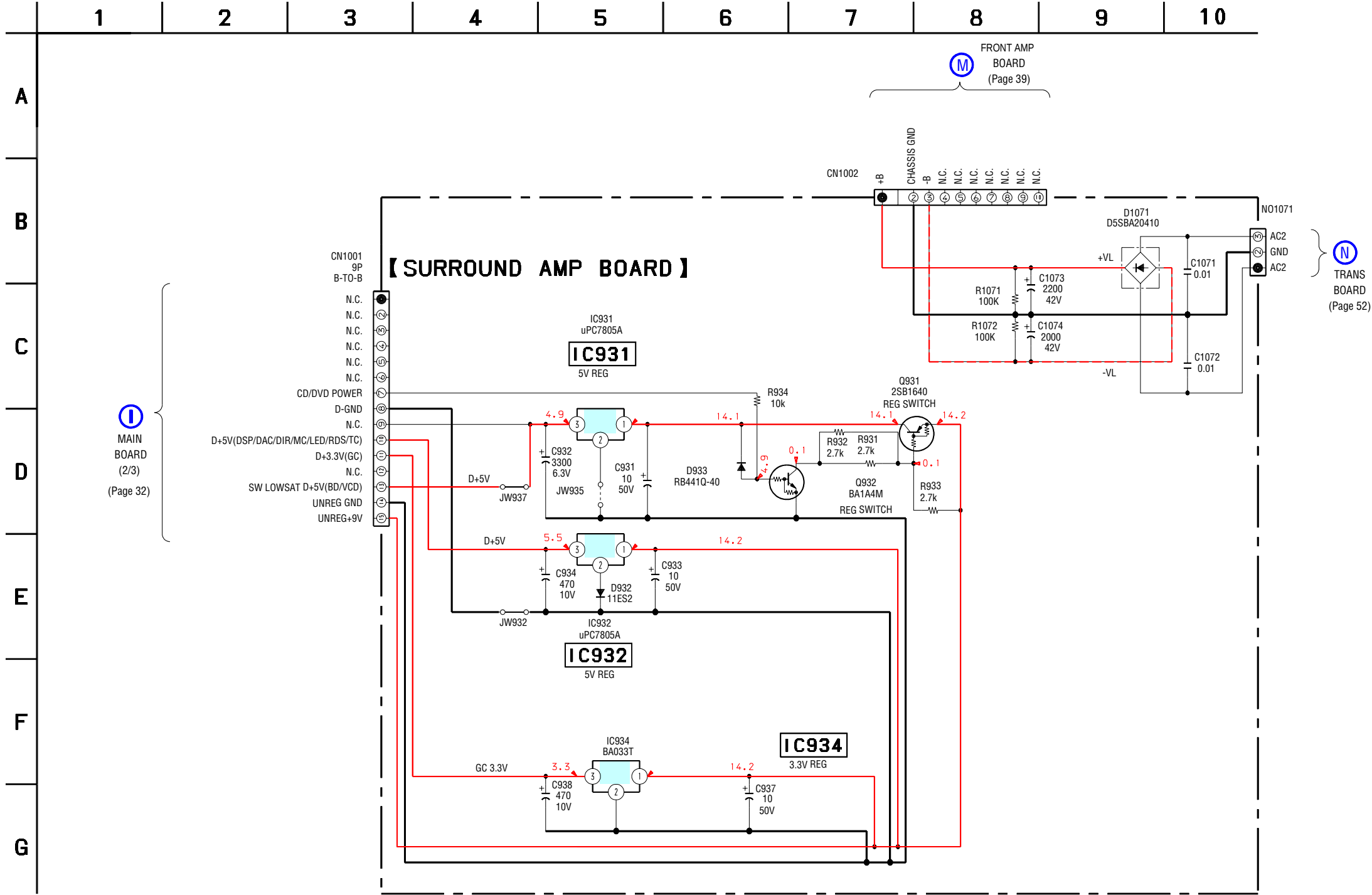
6-15. SCHEMATIC DIAGRAM – FRONT AMP SECTION –



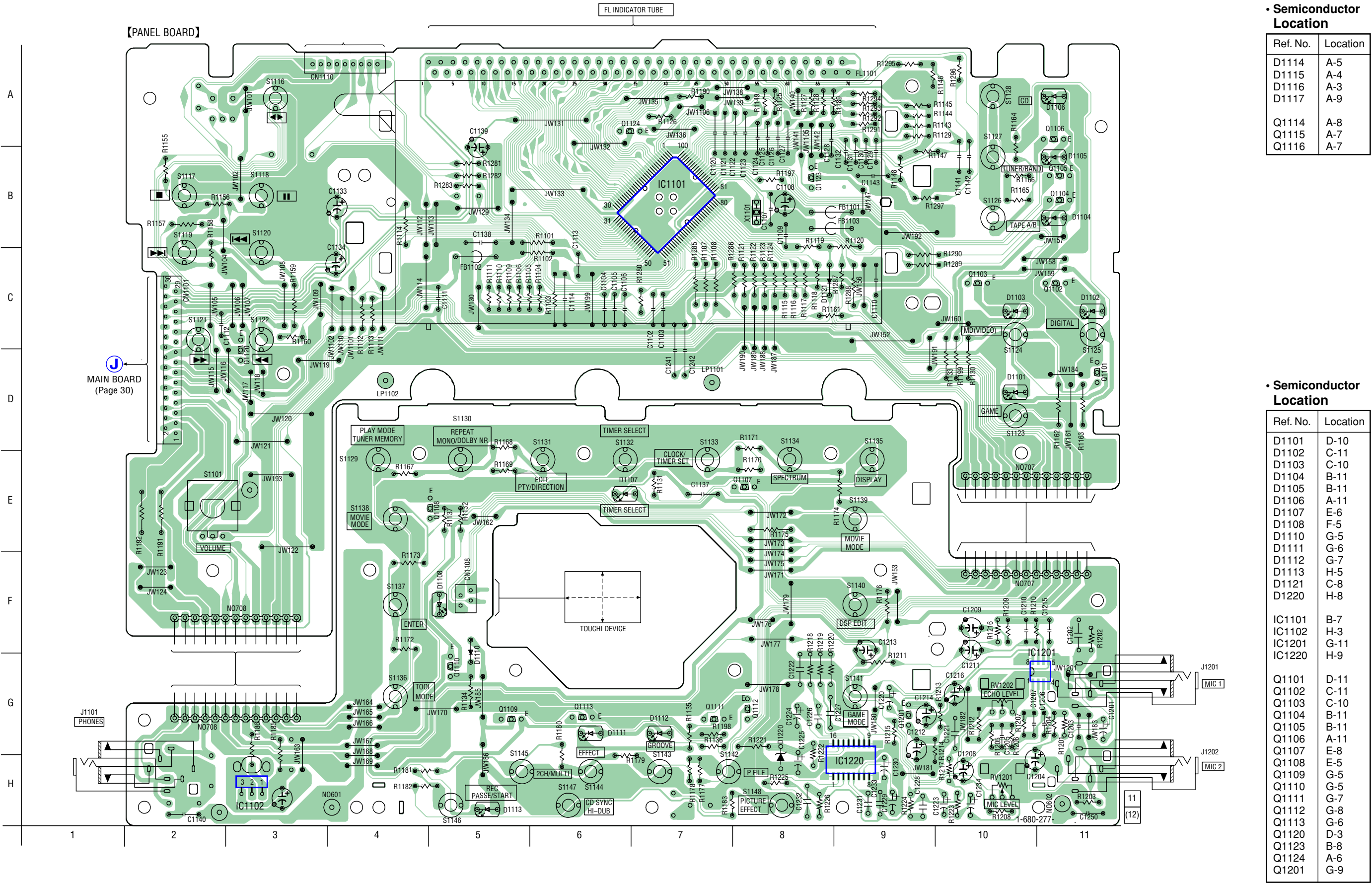
6-16. PRINTED WIRING BOARD – SURROUND AMP SECTION – • See page 24 for Circuit Boards Location.



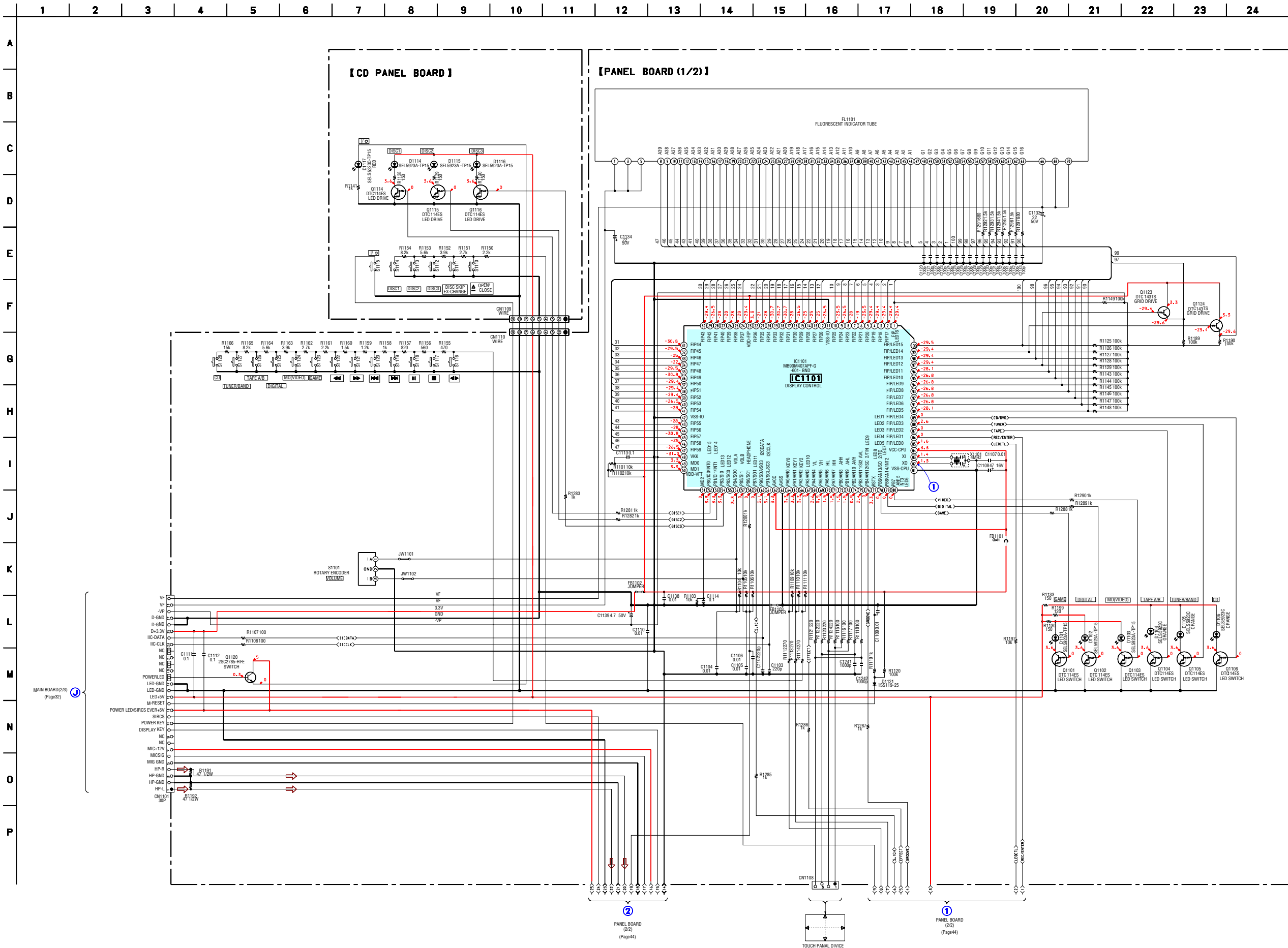
6-17. SCHEMATIC DIAGRAM – SURROUND AMP SECTION –



6-18. PRINTED WIRING BOARD – PANEL SECTION – • See page 24 for Circuit Boards Location.

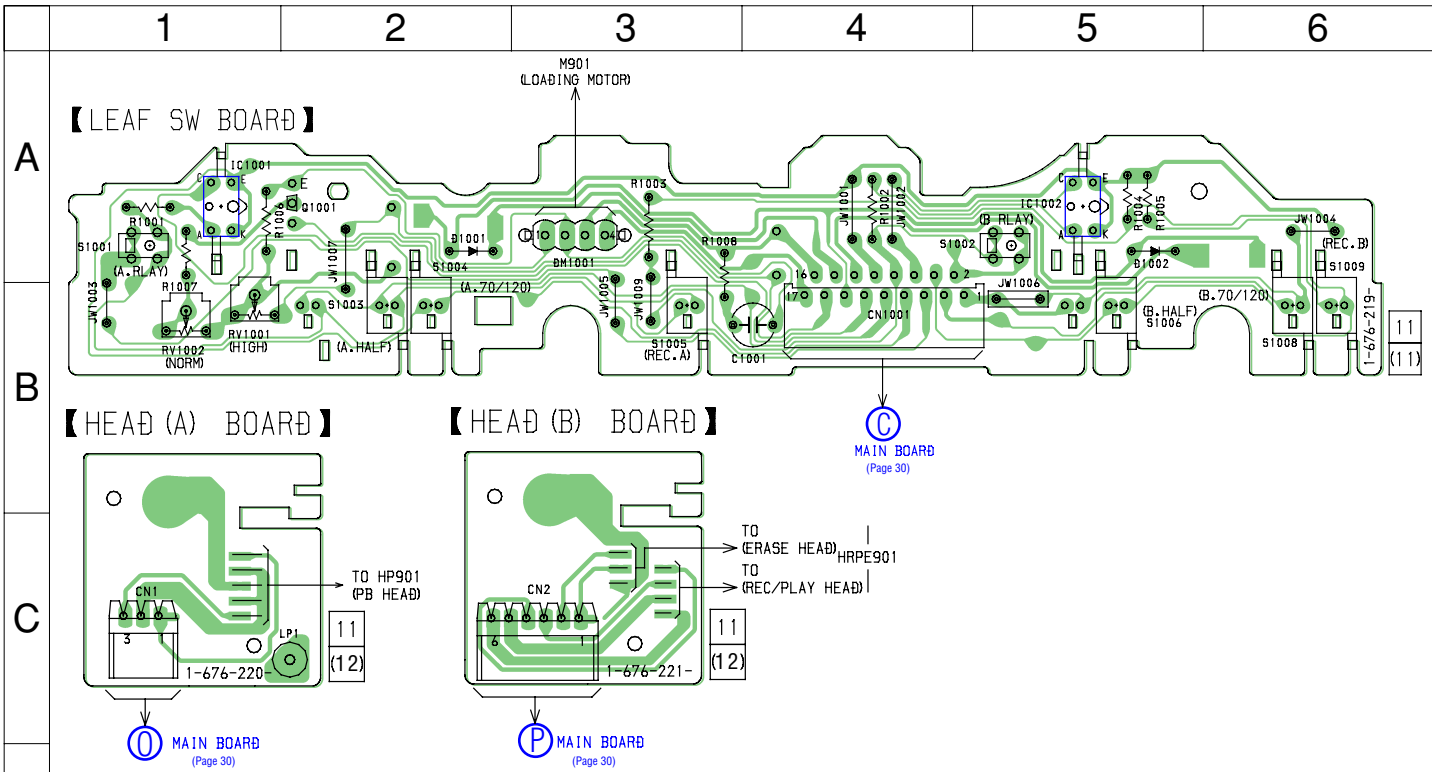


6-19. SCHEMATIC DIAGRAM – PANEL (1/2) SECTION – • See page 53 for Waveforms. • See page 58 for IC Pin Function.





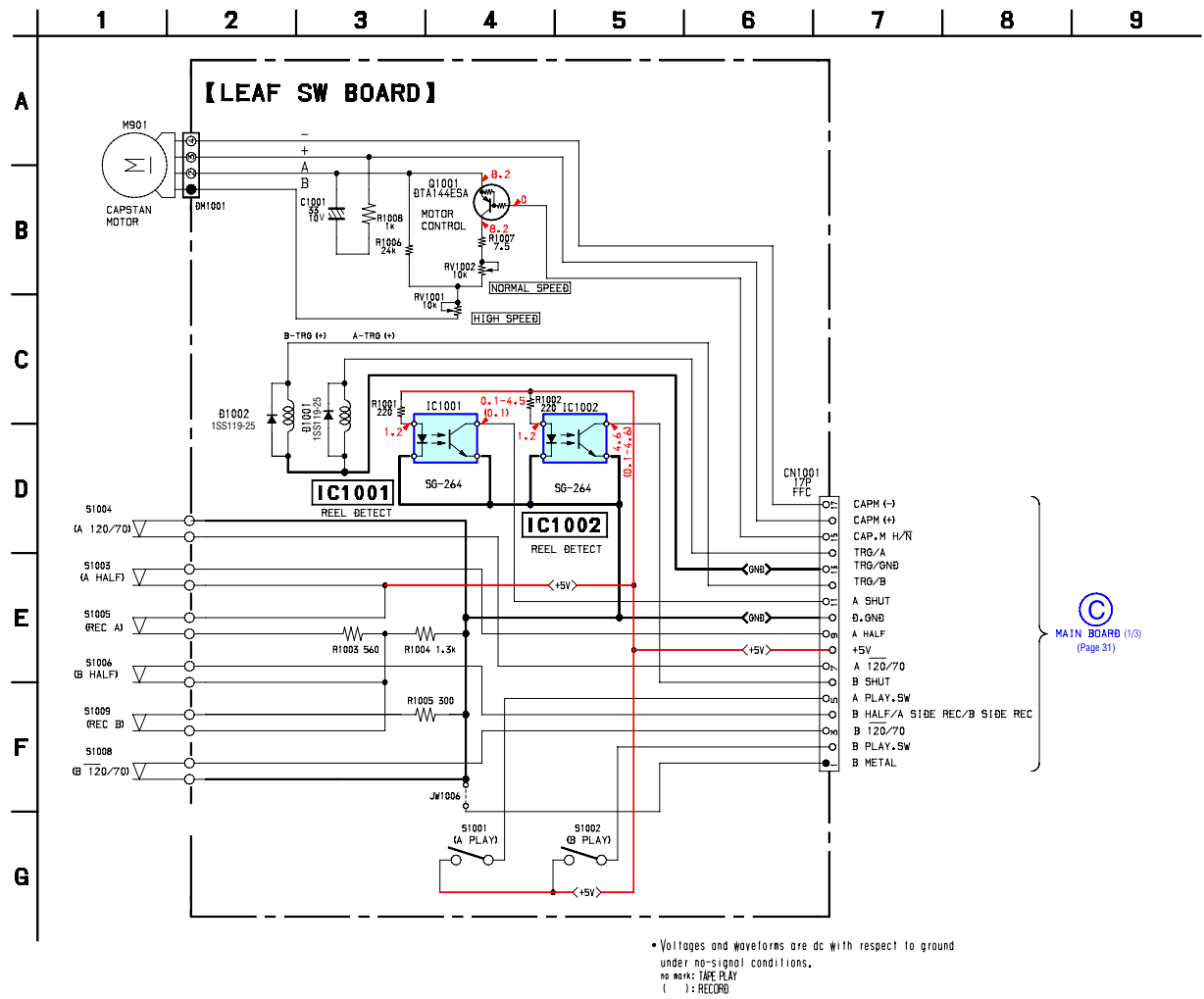
6-21. PRINTED WIRING BOARD – LEAF SW SECTION – • See page 24 for Circuit Boards Location.



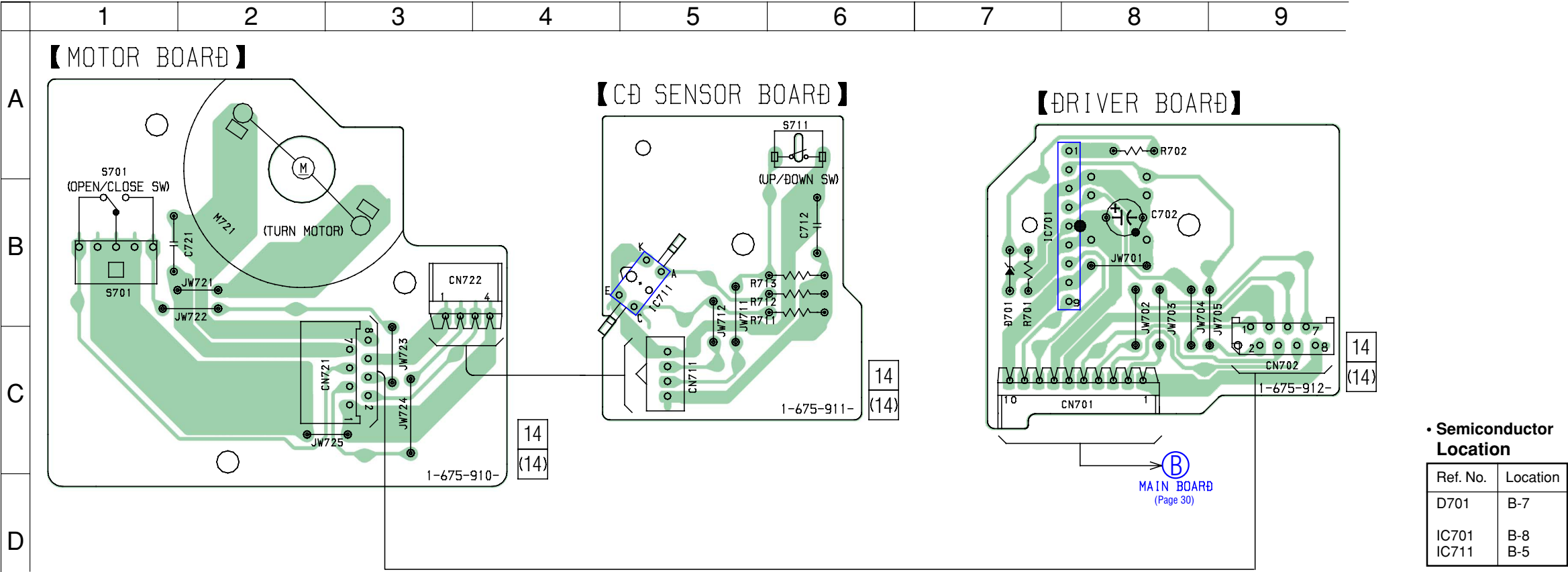
• Semiconductor Location

Ref. No.	Location
D1001	A-2
D1002	A-5
IC1001	A-1
IC1002	A-5
Q1001	A-2

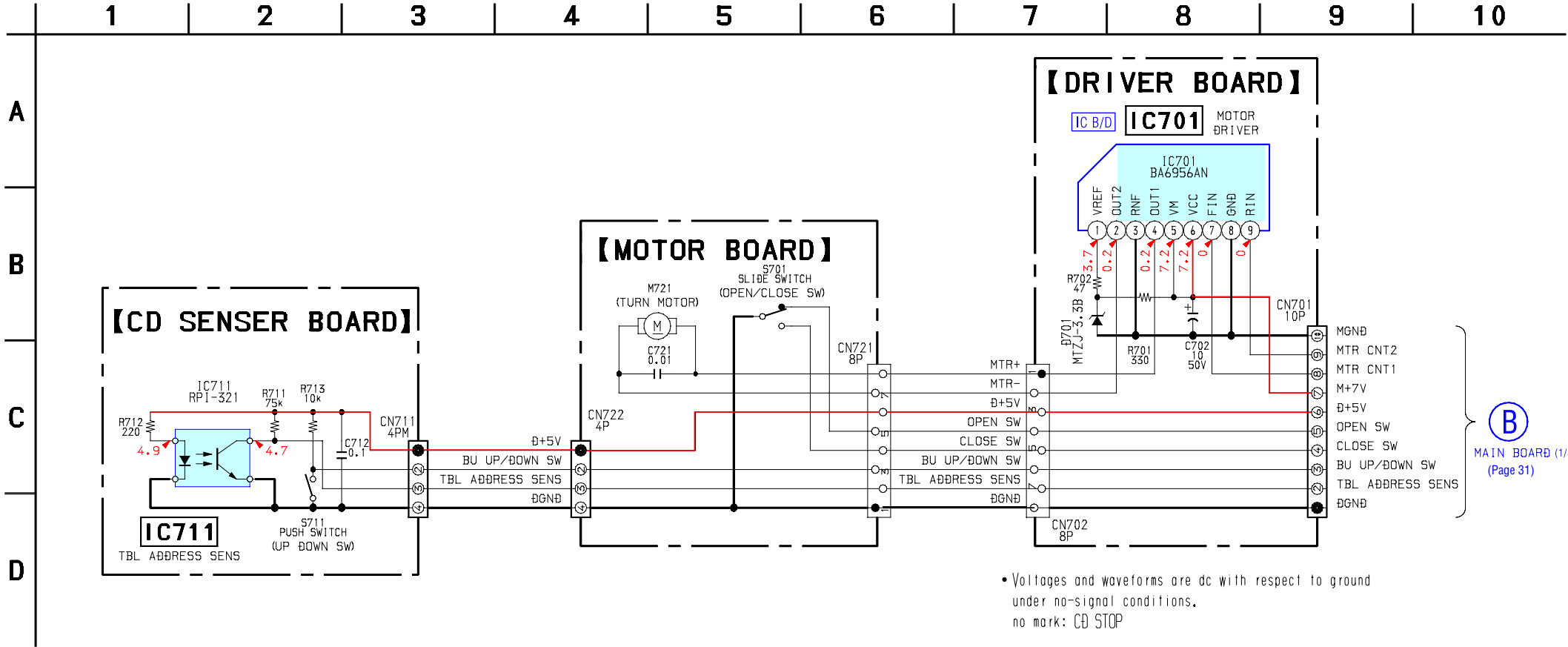
6-22. SCHEMATIC DIAGRAM – LEAF SW SECTION –



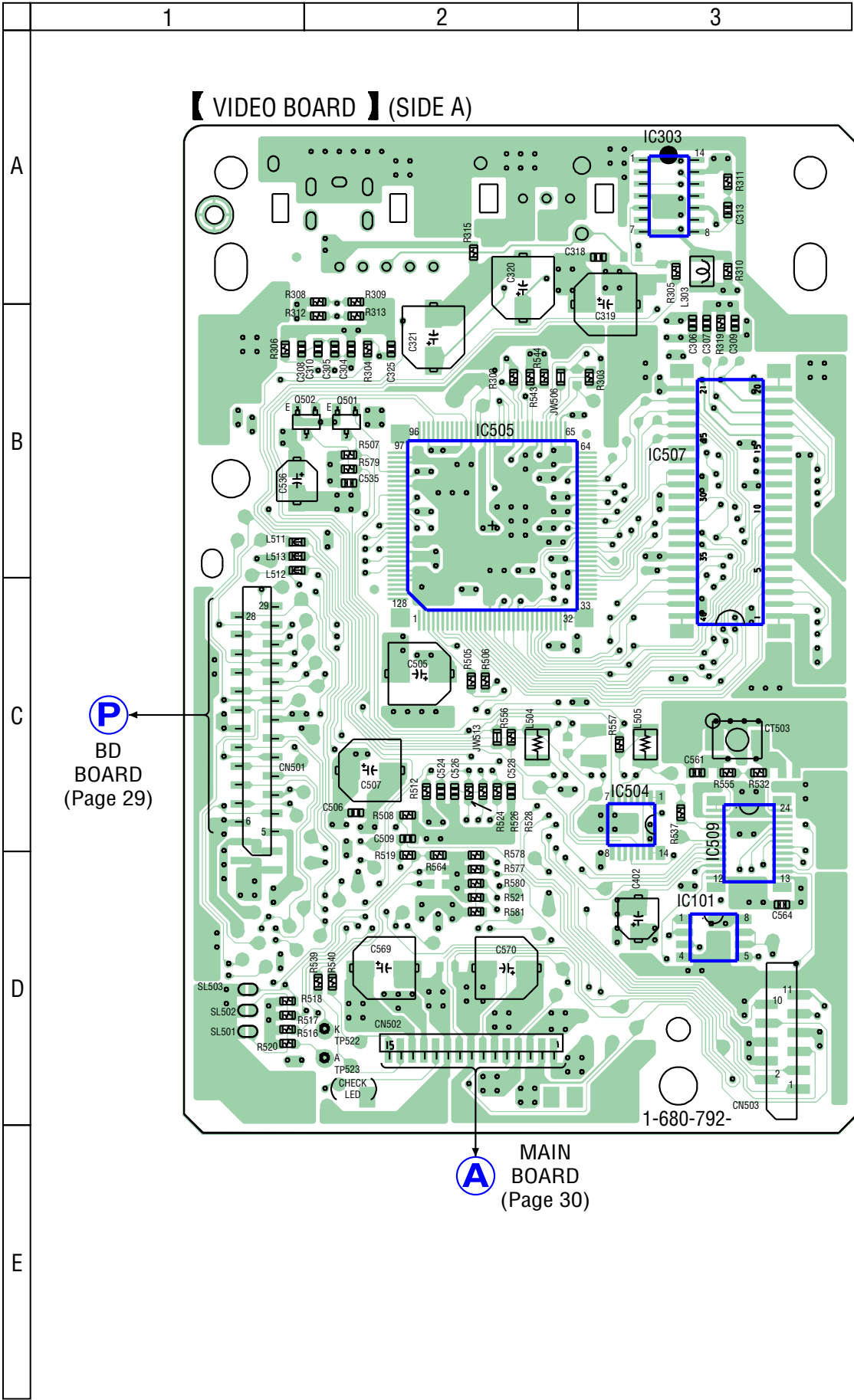
6-23. PRINTED WIRING BOARD – DRIVER SECTION – • See page 24 for Circuit Boards Location.



6-24. SCHEMATIC DIAGRAM – DRIVER SECTION – • See page 64 for IC Block Diagrams.

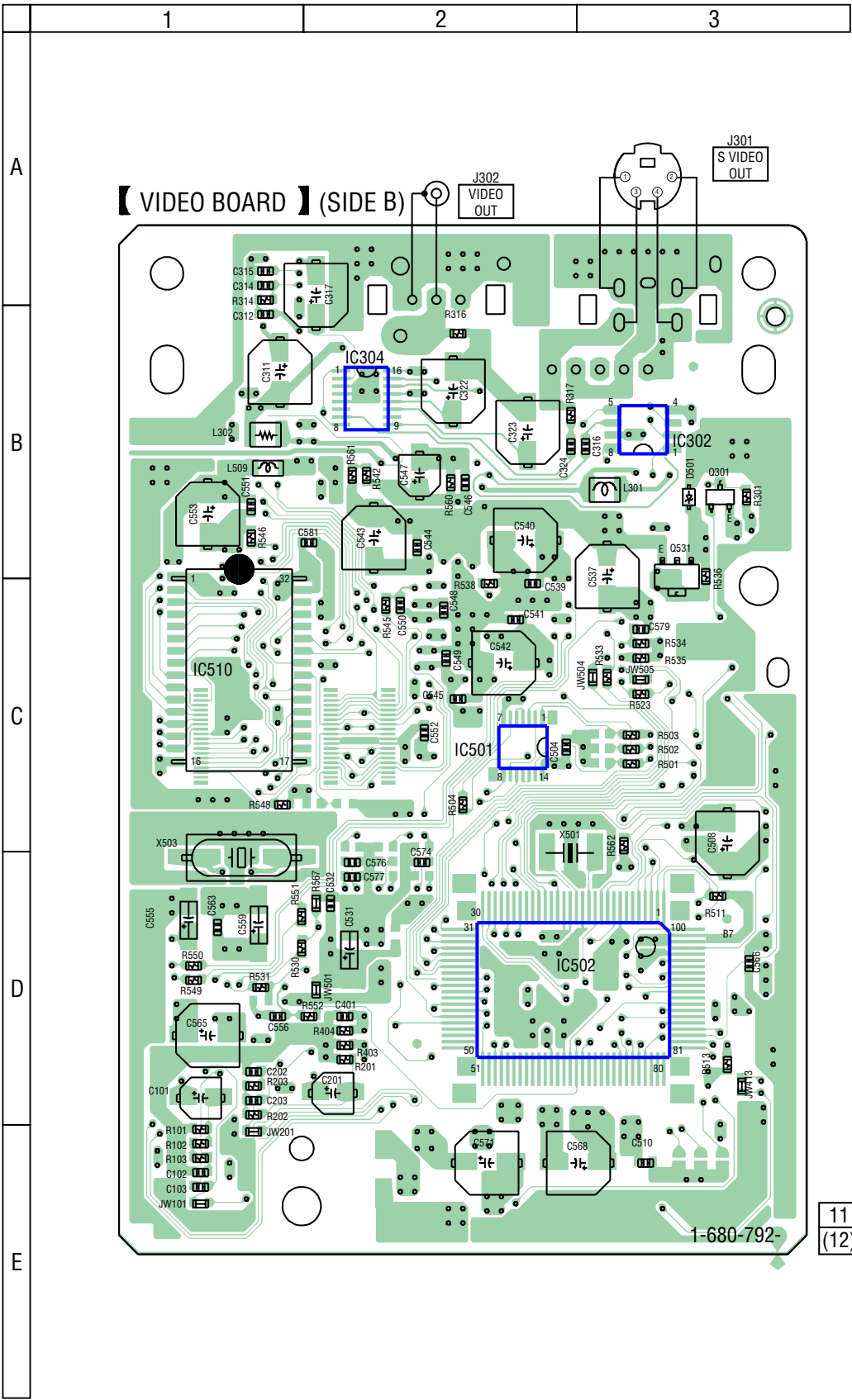


6-25. PRINTED WIRING BOARD – VIDEO SECTION – • See page 24 for Circuit Boards Location.



• Semiconductor Location

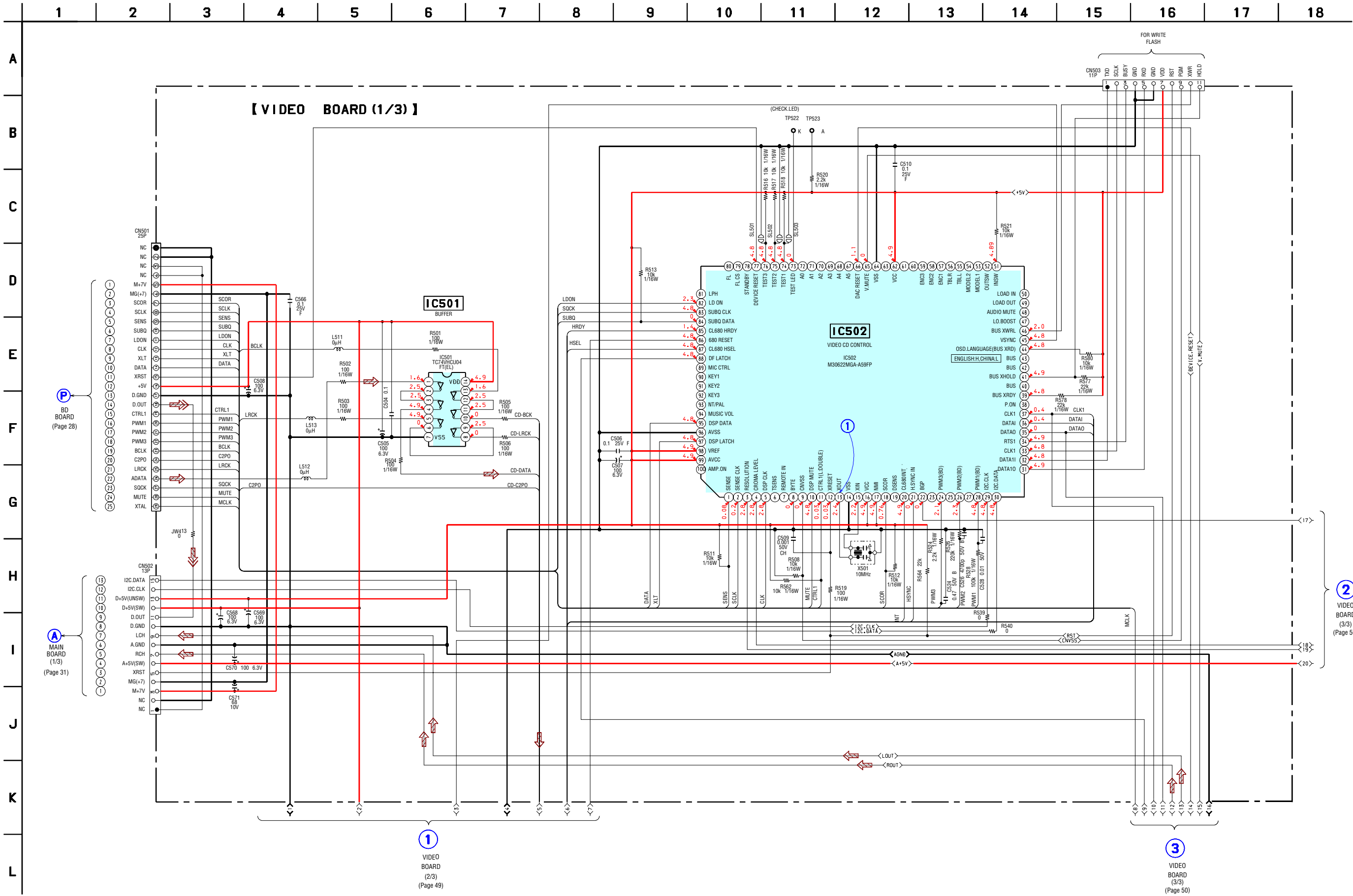
Ref. No.	Location
IC101	D-3
IC303	A-3
IC504	D-3
IC505	B-2
IC507	B-3
IC509	D-4
Q501	B-2
Q502	B-2



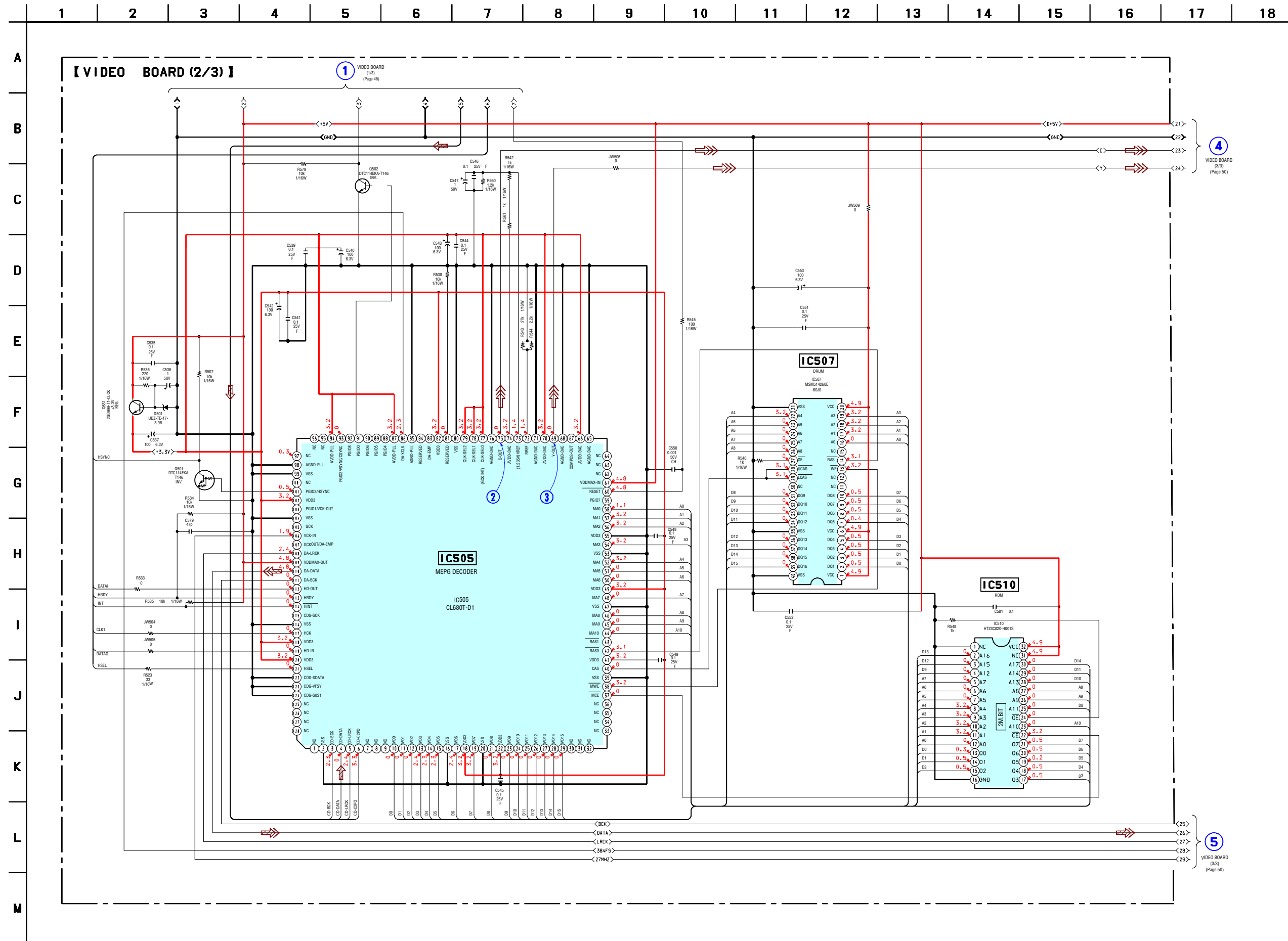
• Semiconductor Location

Ref. No.	Location
D501	B-3
IC302	B-3
IC304	B-2
IC501	C-2
IC502	D-3
IC510	C-1
Q301	B-3
Q531	B-3

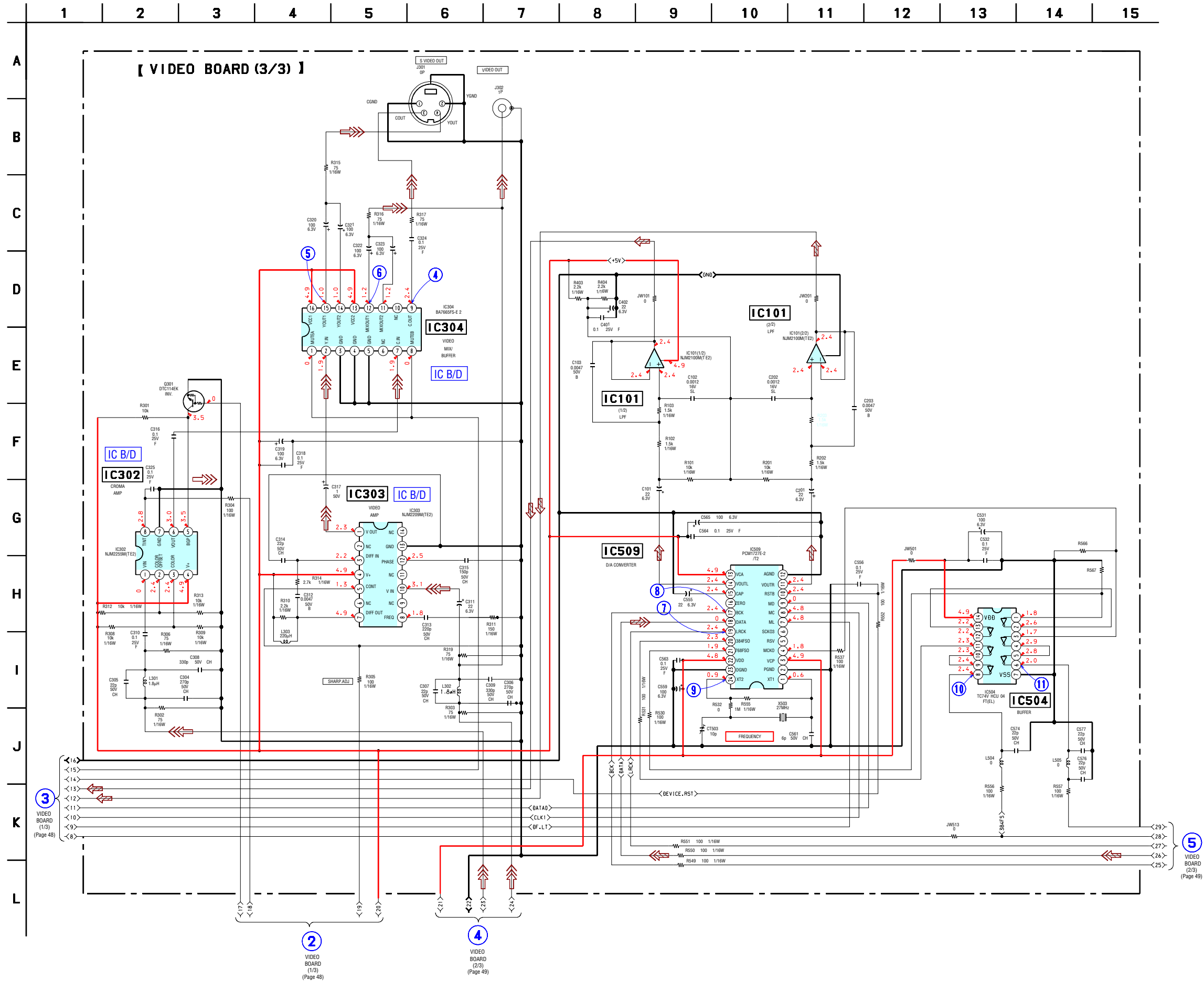
6-26. SCHEMATIC DIAGRAM – VIDEO (1/3) SECTION – • See page 53 for Waveforms. • See page 61 for IC Pin Function.



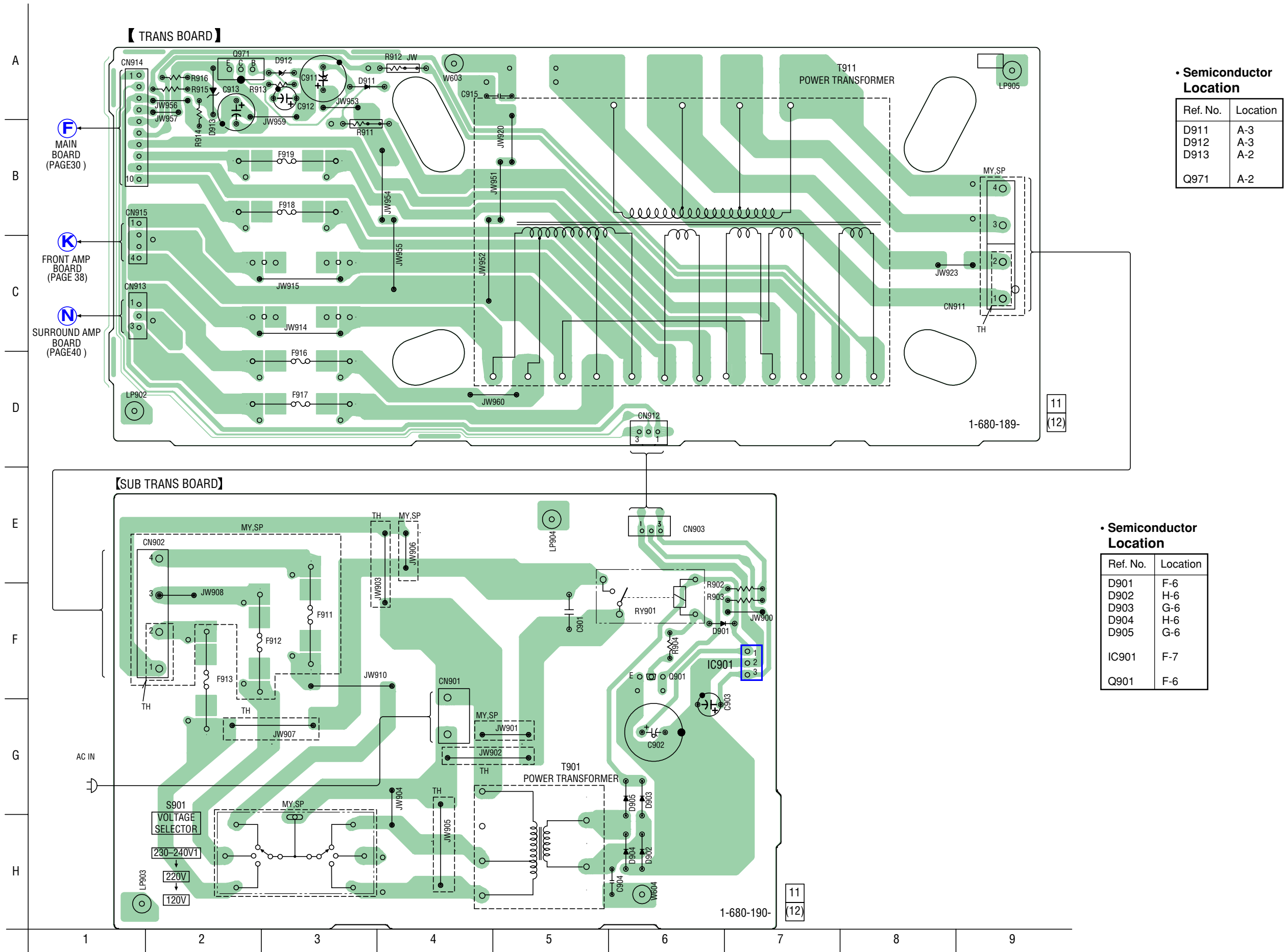
6-27. SCHEMATIC DIAGRAM – VIDEO (2/3) SECTION – • See page 53 for Waveforms.



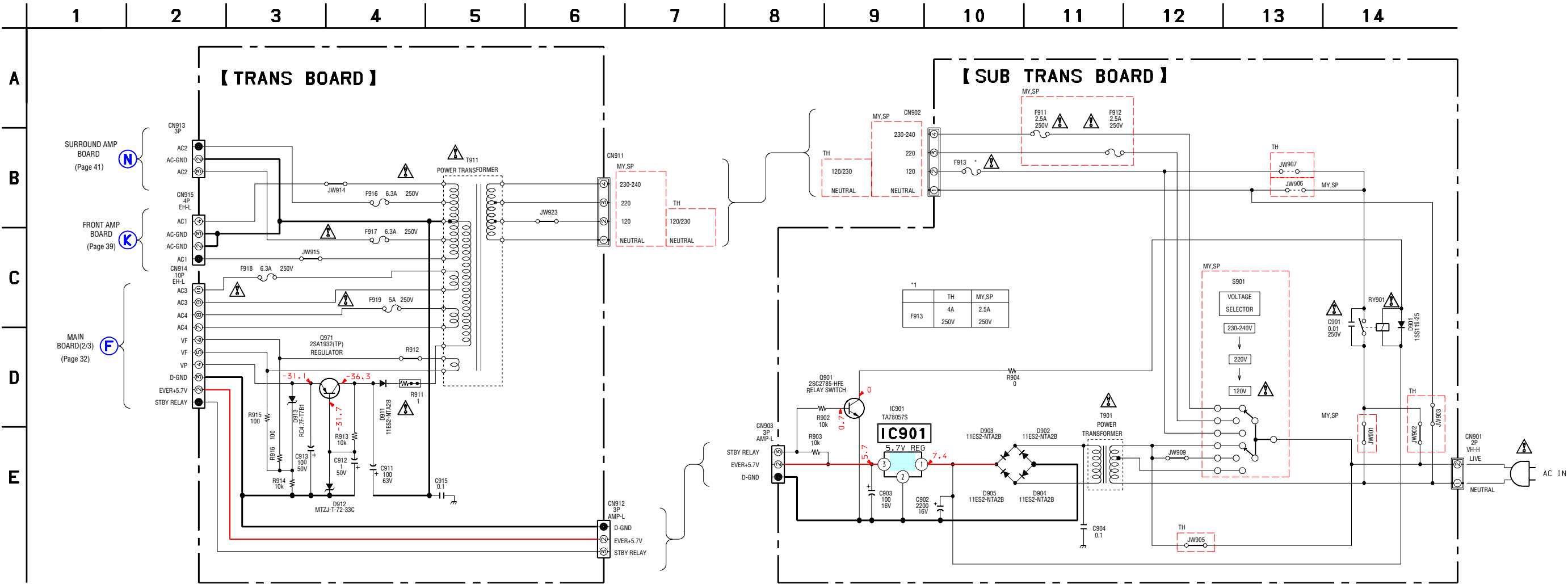
6-28. SCHEMATIC DIAGRAM – VIDEO (3/3) SECTION – • See page 53 for Waveforms. • See page 66 for IC Block Daiagrams.



6-29. PRINTED WIRING BOARD – TRANS SECTION – • See page 24 for Circuit Boards Location.

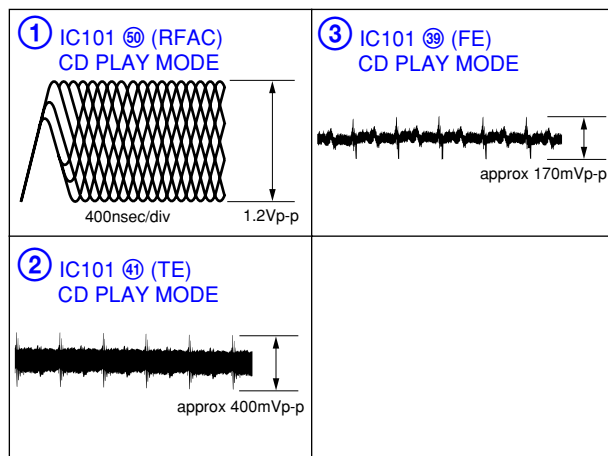


6-30. SCHEMATIC DIAGRAM – TRANS SECTION –

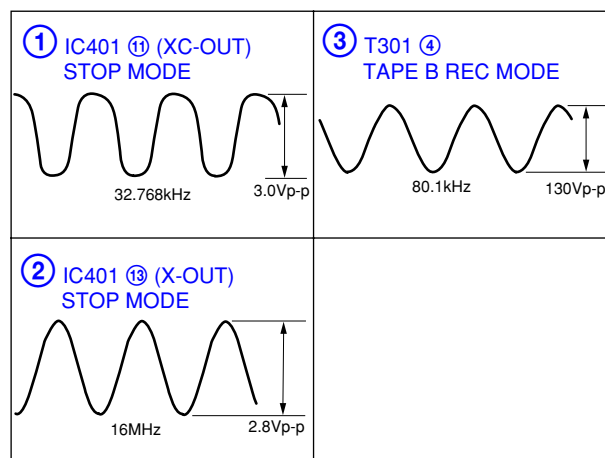


• WAVEFORMS

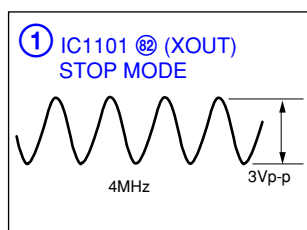
– BD BOARD –



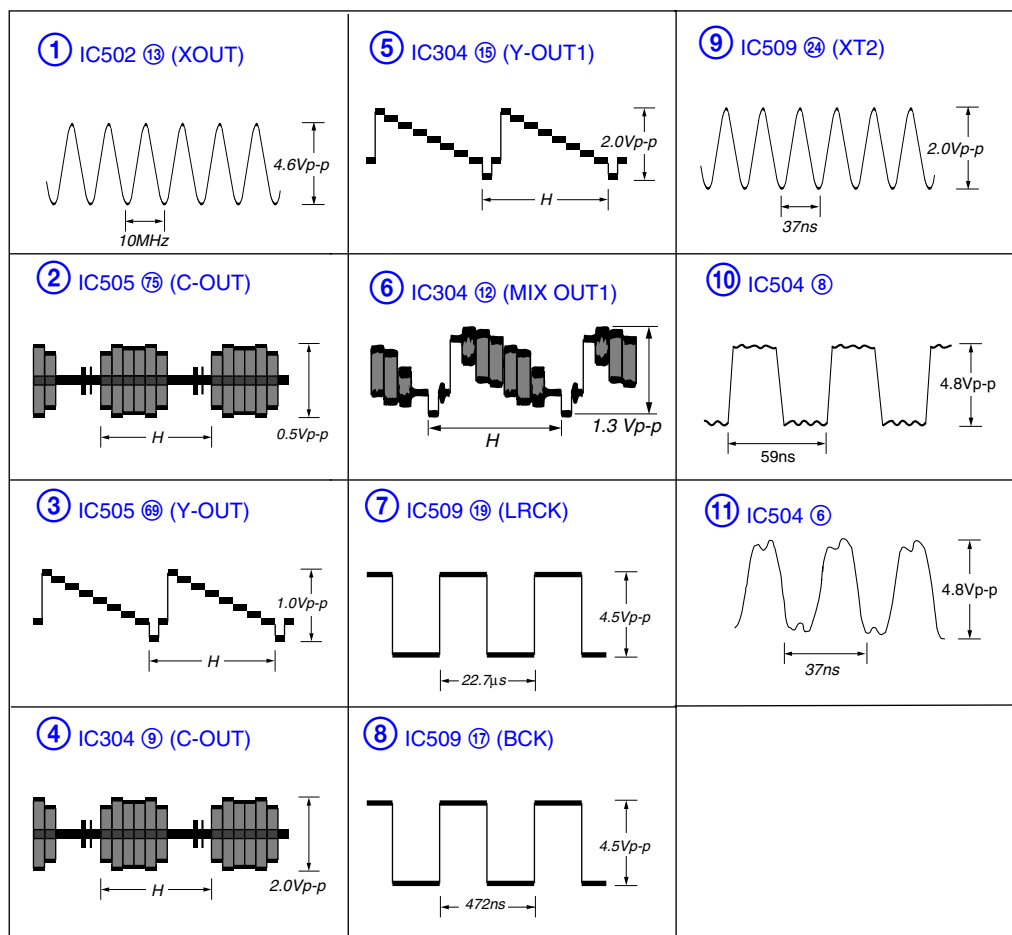
– MAIN BOARD –



– PANEL BOARD –



– VIDEO BOARD –



6-31. IC PIN FUNCTION DESCRIPTION

• IC101 CXD3068Q (DIGITAL SIGNAL PROCESSOR) (BD Board)

Pin No.	Pin Name	I/O	Discription
1	DVDD0	I	Digital power supply
2	XRST	I	System reset
3	MUTE	I	Muting selection pin
4	DATA	I	Serial data input, supplied from CPU
5	XLAT	I	Latch input, supplied from CPU
6	CLOCK	I	Serial data transfer clock input, supplied from CPU
7	SENS	O	SENS output
8	SCLK	I	SENS serial data read-out clock
9	ATSK	I/O	Input pin for anti-shock (Ground)
10	WFCK	O	WFCK (Write Frame Clock) output (Not used)
11	XUGF	O	XUGF output (Not used)
12	XPCK	O	XPCK output (Not used)
13	GFS	O	GFS output (Not used)
14	C2P0	O	C2PO output
15	SCOR	O	Sub-code sync output
16	CM4	O	4.2336MHz output (Not used)
17	WDCK	O	48-bit slot D/A interface word clock (Not used)
18	DVSS	—	Digital ground
19	COUT	O	Numbers of track counted signal output (Not used)
20	MIRR	O	Mirror signal output (Not used)
21	DFCT	O	Defect signal output (Not used)
22	FOK	O	Focus OK output (Not used)
23	PWM1	I	(Not used)
24	LOCK	I/O	GFS in sampled by 460Hz (Not used)
25	MDP	O	Output to control spindle motor servo
26	SSTP	I	Input signal to detect disc inner most trak
27	FST0	O	2/3 divider output (Not used)
28	DVDD1	I	Digital power supply
29	SFDR	O	Sled drive output
30	SRDR	O	
31	TFDR	O	
32	TRDR	O	Tracking drive output
33	FFDR	O	
34	FRDR	O	Focus drive output
35	DVSS1	—	
36	TEST	I	TEST pin connected normally ground
37	TES1	I	
38	VC	I	Center voltage input
39	FE	I	FOCUS error signal input
40	SE	I	Sled error signal input

Pin No.	Pin Name	I/O	Discription
41	TE	I	Tracking error signal input
42	CE	I	Center servo analog input
43	RFDC	I	RF signal input
44	ADI0	O	Test pin (Not used)
45	AVSS0	—	Analog ground
46	IGEN	I	Power supply pin operational amplifiers
47	AVDD	I	Analog power supply
48	ASYO	O	EFM full swing output
49	ASYI	I	Asymmetry compare voltage input
50	RFAC	I	EFM signal input
51	AVSS1	—	Analog ground
52	CLTV	I	Control voltage input for master VCO
53	FILO	O	Filter output for master PLL
54	FILI	I	Filter input for master PLL
55	PCO	O	Charge-pump output for master PLL
56	AVDD1	I	Analog power supply
57	BIAS	I	Asymmetry circuit constant current input
58	VCTL	I	Control voltage input for variable pitch PLL
59	V16M	O	16.9344MHz output (Not used)
60	VPCO	O	Charge-pump output for variable pitch PLL (Not used)
61	DVDD2	I	Digital power supply
62	ASYE	I	Asymmetry circuit ON/OFF (Connected to +5V.)
63	MD2	I	Digital-out ON/OFF control (Connected to +5V.)
64	DOUT	O	Digital-out output
65	LRCK	O	48-bit slot D/A interface, LR clock output
66	PCMD	O	48-bit slot D/A interface, Serial deta output
67	BCLK	O	48-bit slot D/A interface, bit clock output
68	EMPH	O	Playback disc output in emphasis mode (Not used)
69	XTSL	I	X'tal selection input pin
70	DVSS2	—	Digital ground
71	XTAI	I	X'tal oscillator circuit input
72	XTAO	O	X'tal oscillator circuit output (Not used)
73	SOUT	O	(Not used)
74	SOCK	O	
75	XOCT	O	
76	SQSO	O	Sub-Q serial output
77	SQCK	I	Clock input for SQSO read-out
78	SCSY	I	Sub-code input
79	SBSO	O	Sub-P through Sub-W serial output (Not used)
80	EXCR	I	Clock input for SBSO read-out

• IC401 MASTER CONTROL (M30622MGA-A36FP) (MAIN Board (2/3))

Pin No.	Pin Name	I/O	Discription
1	AMP - DATA	O	Amp data signal output
2	AMP - CLK	O	Amp clock signal output
3	AMP - LAT	O	Amp latch signal output
4	SIRCS	I	Remote commander signal input
5	DIG - Tx	O	Digital common Tx signal output
6	DSP - Rx	I	DSP Rx signal input
7	DIG - CLK	O	Digital common clock signal output
8	GND	—	Ground
9	GND	—	Ground
10	Xcin	I	Sub clock input (32.768kHz)
11	Xcout	O	Sub clock output (32.768kHz)
12	RESET	I	System reset signal input
13	Xout	O	Main system clock output (16MHz)
14	Vss	—	Ground
15	Xin	I	Main system clock input (16MHz)
16	Vcc	I	Power supply (EVER+5V)
17	NMI	I	Not used (PULL UP EVER +5V)
18	RDS-INT	I	RDS interrupt signal input
19	SCOR	I	Not used (connected to ground)
20	RDS - DATA	I	Not used (connected to ground)
21	ST - MUTE	O	Tuner mute signal output
22	ST - CE	O	Tuner chip enable output
23	ST - DOUT	O	Tuner data output
24	BU PWM 3	O	Not used
25	ST - DIN	I	Tuner data input
26	BU PWM 2	O	Not used
27	ST - CLK	O	Tuner clock signal output
28	BU PWM 1	O	Not used
29	IIC_ CLK	O	IIC data bus reading clock (SCL signal)
30	IIC_ DATA	O	IIC data bus SDA signal
31	CANT USE	I	Not used
32	SQ - DATA-IN	I	Not used (connected to ground)
33	SQ - CLK	O	Not used
34	SENS	I	Not used
35	CD - DATA	O	Not used
36	CANT USE	—	Not used
37	CD - CLK	O	Not used
38	CD/DVD POWER	O	CD power on/off switch signal output
39	CLOCK - OUT/STBY LED	O	Not used
40	LD - ON	O	Not used
41	M - RESET	O	System reset signal output
42	XLT	O	Not used
43	XRST	O	Not used
44	LOAD - IN	O	CD loading motor contorol signal output
45	LOAD - OUT	O	CD loading motor contorol signal output
46	OPEN	I	Detection input from the tray open switch signal
47	CLOSE	I	Detection input from the tray close switch signal
48	BU UP/DWN SW	I	CD elevator up/down control signal input
49	T - SENS	I	Detection input from the table addres detect sensor
50	A - TRG	O	A deck trigger control signal output

Pin No.	Pin Name	I/O	Discription
51	NO - USE	I	Not used
52	B TRG	O	B deck trigger control signal output
53	AMS - IN	I	AMS signal input
54	CAPM - H/L	O	Capstan moter highi/low speed control signal output
55	CAPM - CONT	O	Capstan moter REV/FWD/STOP control signal output
56	A PLAY	I	A deck play detect signal input
57	B PLAY	I	B deck play detect signal input
58	TC - MUTE	O	Tape deck line mute switch signal output. mute: "H"
59	$\overline{\text{R}}/\text{PB}/\text{PAS}$	I	REC/PB/PASS select signal input
60	NR - $\overline{\text{ON}}/\text{OFF}$	O	DOLBY NR on/off switch signal output
61	$\overline{\text{REC}} - \text{MUTE}$	O	REC mute switch signal output (mute "L")
62	Vcc	I	Power supply(+5V)
63	SOFT - TEST	O	Soft out check point
64	Vss	—	Ground
65	BIAS	O	BIAS on/off switch signal output.
66	EQ - H/N	O	EQ high/low switch serect signal output
67	PB - A/B	O	A/B playback deck select signal output (deck A: "L", deck B "H")
68	$\overline{\text{ALC}}$	O	ALC switch signal output (on: "L", off "H")
69	TC - RELAY	O	Tape deck relay switch signal output
70	A HALF	I	A deck half detect signal input
71	LINE-MUTE	O	Line mute signal output (on "H", off "L")
72	STK - POWER	O	Power amplifier on/off signal output (on "H", off "L")
73	DISPLAY KEY	I	Display key on/off switch signal input
74	POWER KEY	I	Power key on/off switch signal input
75	DIR - UNLOCK	I	Dir pll unlock signal input (analog: "H", CD/Din normal: "L")
76	DIR - CS	O	Dir cs signal output (normal "H")
77	DIR - XSTATE	I	Dir xstate signal input (normal "H")
78	DIR - Rx	I	Dir tx signal input
79	CODEC - SMUTE	I	Codec soft mute signal input (normal "L", mute "H")
80	DSP - ACK	I	DSP ACK signal input
81	DSP - CS	I	DSP CS signal input
82	DSP - DECODE	I	DSP DECODE signal input (AC-3 DTS decode "H")
83	STBY - RELAY	O	Main power on/off switch signal output
84	FRONT - RELAY	O	Front speaker relay switch signal output
85	REAR - RELAY	O	Not used
86	$\overline{\text{SP PROTECT}}$	I	Front speaker protect signal input (on "L")
87	STEREO	I	FM stereo detection signal input (stereo "L")
88	TUNED	I	Tuning detection signal input (tuned "L")
89	A SHUT	I	Shut off detection signal input (A deck reel pulse)
90	B SHUT	I	Shut off detection signal input (B deck reel pulse)
91	HALF/REC A/REC B	I	Detection input from the B deck half signal input
92	MODEL - IN	I	Not used .Destination setting terminal
93	SPEC - IN	I	Destination settng terminal
94	FUN	O	Fun on control signal output
95	V - MUTE	O	Not used
96	AVss	—	Ground
97	POWER	O	Standby LED on/off control signal output
98	VREF	I	Reference voltage(+5V)
99	AVcc	I	Power supply (+5V)
100	AC - CUT	I	AC cut on/off check signal input

• IC1101 DISPLAY CONTROL (MB90M407APF-G-105-BND) (PANEL Board (1/2))

Pin No.	Pin Name	I/O	Discription
1	FIPLED16	O	Grid drive signal output to the fluorescent indicator
2 - 5	FIP17 - 20	O	Grid drive signal output to the fluorescent indicator
6 - 10	A1 - A5	O	Segment drive signal output the flourescent indicator tube
11	Vss IO	—	Ground
12 - 22	A6 - A16	O	Segment drive signal output the flourescent indicator tube
23	Vdd FIP	I	Power supply terminal (B+ VFT)
24 - 41	A17 - A34	O	Segment drive signal output the flourescent indicator tube
42	Vss IO	—	Ground
43 - 47	A35 - A39	O	Segment drive signal output the flourescent indicator tube
48	Vkk	I	Power supply terminal (B- for VFT)
49	MD0	I	Chip Mode Select 0
50	MD1 Vdd-VFT	I	Chip Mode Select 1
51	MD2	I	Chip Mode Select 2
52	LED15	O	LED switch signal output
53	LED14	O	LED switch signal output
54	LED13	O	LED switch signal output
55	LED12	O	Not used (open)
56	VOL A	I	Jog dial pulse input from the rotary encoder(A phase input)
57	VOL B	I	Jog dial pulse input from the rotary encoder(B phase input)
58	HEADPHONE	I	HEAD PHONE check ("H" head phone)
59	MULTI CHANNEL LED	O	LED switch signal output
60	I2C DATE	O	IIC data bus SDA signal
61	I2C CLK	O	IIC data bus reading clock (SCL signal)
62	Avcc	I	Power supply terminal (analog)
63	Avss	—	Ground (analog)
64 - 66	KEY0 - KEY2	I	KEY in terminal (A/D input)
67	LED10	O	LED switch signal
68	YL	I/O	Tuoch pad control signal input/output
69	XL	I/O	Tuoch pad control signal input/output
70	XH	I/O	Tuoch pad control signal input/output
71	YH	I/O	Tuoch pad control signal input/output
72	AHH	I	Tuoch pad signal input(A/D input)
73	AHL	I	Tuoch pad signal input(A/D input)
74	AVH	I	Tuoch pad signal input(A/D input)
75	AVL	I	Tuoch pad signal input(A/D input)
76	LED9	O	LED switch signal output
77	RSTX	I	System reset signal input
78	LED8	O	LED switch signal output
79	LED7	O	LED switch signal output
80	LED6	O	LED switch signal output
81	Vss CPU	—	Ground
82	XO	O	Clock output (4MHz)
83	XI	I	Clock input (4MHz)
84	Vcc - CPU	I	Power supply terminal
85	LED5	O	LED switch signal output
86	LED4	O	LED switch signal output
87	LED3	O	LED switch signal output
88	LED2	O	LED switch signal output
89	LED1	O	LED switch signal output
90 - 100	FIP LED5 - 15	O	Grid drive signal output to the fluorescent indicator

• IC601 DECODER (CXD9617R) (DSP Board (1/2))

Pin No.	Pin Name	I/O	Discription
1	VSS	—	Ground
2	XRST	I	Reset signal input
3	EXTIN	I	Not used (connected to ground)
4	FS2	I	Not used (connected to ground)
5	VDDI	I	Power supply
6	FS1	I	Not used (connected to ground)
7	PLOCK	O	Internal PLL lock signal output (Not used)
8	VSS	—	Ground
9	MCLK1	I	Clock signal input (135 MHz)
10	VDDI	I	Power supply
11	VSS	—	Ground
12	MCLK2	O	Not used (open)
13	M/S	I	Switching of master/slave operation 0 : internal clock, 1 : EXTIN clock is used
14	SCKOUT	O	Internal system clock signal output
15	LRCKI1	I	Not used (open)
16	VDDE	I	Power supply
17	BCKI1	I	Not used (open)
18	SDI1	I	Audio IF data input
19	LRCKO	O	Sampling clock output for audio IF serial data
20	BCKO	O	Bit clock output terminal for audio IF serial data
21	VSS	—	Ground
22	KFSIO	I/O	Audio clock signal (364fs/256fs) input/output
23 - 26	SDO1 - SDO4	O	Audio IF serial data output
27	SPDIF	O	Not used (open)
28	LRCKI2	I	Sampling clock input for audio IF serial data
29	BCKI2	I	Bit clock input terminal for audio IF serial data
30	SDI2	I	Audio IF data input
31	VSS	—	Ground
32	HACN	O	Acknowledge signal output for host IF
33	HDIN	I	Serial data input for host IF
34	HCLK	I	Clock input for host IF
35	HDOUT	O	Serial data output for host IF
36	HCS	I	Chip select input for host IF
37	SDCLK	O	Not used (open)
38	CLKEN	O	Not used (open)
39	RAS	O	Not used (open)
40	VDDI	I	Power supply
41	VSS	—	Ground
42	CAS	O	Not used (open)
43	DQM/OE0	O	Not used (open)
44	CS0	O	External memory chip select (SRAM)
45	WE0	O	SRAM write enable output
46	VDDE	I	Power supply
47	WMD1	I	Not used (connected to "H")
48	VSS	—	Ground
49	WIMD0	I	Not used (connected to ground)
50	PAGE2	O	Not used (open)
51	VSS	—	Ground
52	PAGE1	O	External memory page switching signal output (Not used)
53	PAGE0	O	External memory page switching signal output (Not used)
54	BOOT	I	Not used (connected to ground)
55	BTACT	O	Not used (open)
56	BST	I	Boot stop signal input
57	MOD1	I	Operation mode signal input (L : 386fs, H : 256fs)

Pin No.	Pin Name	I/O	Discription
58	MOD0	I	Operation mode signal input (L : single chip mode, H : use prohibited)
59	EXLOCK	I	Lock signal input
60	VDDI	I	Power supply
61	VSS	—	Ground
62, 63	A17, A16	O	Not used (open)
64 - 66	A15 - A13	O	External memory address output (SRAM)
67	GP10	O	LRCK0
68	GP9 (DECODE)	O	DECODE
69	GP8 (AUDIO)	I	AUDIO
70	VDDI	I	Power supply
71	VSS	—	Ground
72 - 75	D15 - D12	I/O	External memory data input/output (general port)
76	VDDE	I	Power supply
77 - 80	D11 - D8	I/O	External memory data input/output (general port)
81	VSS	—	Ground
82 - 85	A9 - A12	O	External memory address output (SRAM)
86	TDO	O	Simple emulation data output
87	TMS	I	Simple emulation data input start, end terminal
88	XTRST	I	Simple emulation async BREAK signal input terminal
89	TCK	I	Simple emulation clock signal input
90	TDI	I	Simple emulation data input
91	VSS	—	Ground
92 - 97	A8 - A3	O	External memory address output (SRAM)
98 - 99	D7, D6	I/O	External memory data input/output (SRAM)
100	VDDI	I	Power supply
101	VSS	—	Ground
102 - 105	D5 - D2	I/O	External memory data input/output (SRAM)
106	VDDE	I	Power supply
107 - 108	D1, D0	I/O	External memory data input/output (SRAM)
109 - 110	A2, A1	O	External memory address output (SRAM)
111	VSS	—	Ground
112	A0	O	External memory address output (SRAM)
113	PM	I	PLL initialization input terminal
114 - 115	SDI3, SDI4	I	Not used (connected to ground)
116	SYNC	I	Sync/async selection input (L : sync, H : async)
117 - 119	VSS	—	Ground
120	VDDI	I	Power supply

• IC502 M30622MGA-A59FP (CD MECHANISM CONTROLLER) (VIDEO BOARD)

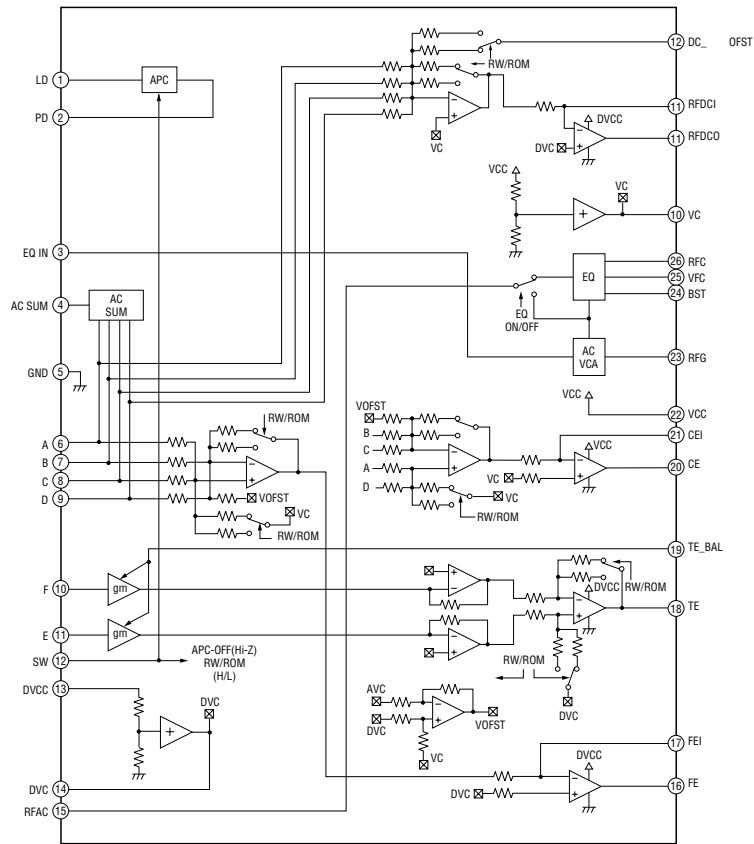
Pin No.	Pin Name	I/O	Discription
1	SENSE	I	Internal state (SENSE) monitor input
2	SENSE CLK	O	Serial data reading clock output
3	RESOLUTION	O	Y resolution output
4	CROMA LEVEL	O	Chroma level controll signal output
5	DSP CLK	O	Serial data clock output
6	TSENS	I	Not used (open)
7	REMOTE IN	I	Not used (open)
8	BYTE	I	Not used (Connected to ground)
9	CNVSS	—	Ground
10	DSP MUTE	O	Muting on/off control signal output “H” : muting on
11	CTRL1 (L : DOUBLE)	O	Clock selection signal output (IC101) “L” : double speed (16.9344MHz)
12	XRESET	I	System reset input “L” : reset
13	XOUT	O	Main clock output terminal (10MHz)
14	VSS	—	Ground
15	XIN	I	Main clock input terminal (10MHz)
16	VCC	I	Power supply (+5V)
17	NMI	I	Not used (Connected to +5V)
18	SCOR	I	Subcode sync input
19	D SENS	I	Not used (open)
20	CL680 INT	I	Video CD interruption input
21	H. SYNC IN	I	H. sync signal input
22	BGP	O	Burst gate pulse signal output
23	—	I	Not used (open)
24	PWM3 (BD)	O	PWM3 signal output
25	—	I	Not used (open)
26	PWM2 (BD)	O	PWM2 signal output
27	—	I	Not used (open)
28	PWM1 (BD)	O	PWM1 signal output
29	I2C. CLK	I	IIC clock input from master control
30	I2C. DATA	I	IIC data input from master control
31	DATA1O	O	Serial data output to the FLASH writer
32	DATA1I	I	Serial data input from the FLASH writer
33	CLK1	O	Serial data transfer signal output the FLASH writer
34	RTS1	O	RTS (BUSY) signal to the FLASH writer
35	DATAO	O	Serial data output to MPEG decoder
36	DATA1	I	Serial data input from MPEG decoder
37	CLK1	O	Serial clock output to MPEG decoder
38	P. ON	I	Not used (open)
39	BUS XRDY	I	Not used (connected to +5V)
40	BUS	I	Not used (open)
41	BUS XHOLD	I	Hold signal input terminal from the FLASH writer
42, 43	BUS	I	Not used (open)
44	BUS XRD	I	Not used
45	V. SYNC	I	V sync signal input
46	BUS XWRL	O	Bus write signal output to the FLASH writer
47	LO. BOOST	I	Not used (open)
48	AUDIO MUTE	O	Not used (open)
49	LOAD OUT	I	Not used (open)
50	LOAD IN	I	Not used (open)

HCD-VP700

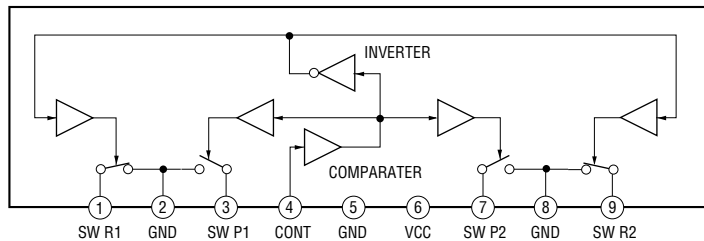
Pin No.	Pin Name	I/O	Discription
51	INSW	I	Not used (connected to +5V)
52	OUTSW	I	Not used (open)
53	MODEL 1	I	Not used (open)
54	MODEL 2	I	Not used (open)
55	TBLL	I	Not used (open)
56	TBLR	I	Not used (open)
57	ENC 1	I	Not used (open)
58	ENC 2	I	Not used (open)
59	ENC 3	I	Not used (open)
60	—	I	Not used (open)
61	—	I	Not used (open)
62	VCC	I	Power supply (+5V)
63	—	I	Not used (open)
64	VSS	—	Ground
65	V. MUTE	O	Video mute signal output
66	DAC RESET	O	Audio DAC reset signal output
67 - 72	A5 to A0	I	Not used (open)
73	TEST LED	O	TEST LED terminal
74	TEST 1	I	Test mode terminal
75	TEST 2	I	Test mode terminal
76	TEST 3	I	Test mode terminal
77	DEVICE RESET	O	Device system rest output
78	STANDBY	I	Not used (open)
79	FL CS	I	Not used (open)
80	FL	I	Not used (open)
81	LPH	O	Not used (open)
82	LD ON	O	Laser diode ON/OFF signal output
83	SUBQ CLK	O	Sub-code Q data reading clock signal output
84	SUBQ DATA	I	Sub-code Q data input
85	CL680 HRDY	I	HRDY serial signal input
86	680 RESET	O	Reset signal output to the CL680 (IC505)
87	CL680 HSEL	O	Video CD select data of the host MPU (IC505)
88	DF LATCH	O	Digital filter latch output (IC509)
89	MIC CTRL	I	Not used (open)
90	KEY 1	I	Not used (open)
91	KEY 2	I	Not used (open)
92	KEY 3	I	Not used (open)
93	NY/PAL	I	Not used (open)
94	MUSIC VOL	I	Not used (open)
95	DSP DATA	O	Serial data output
96	AVSS	—	Ground terminal (for A/D conversion)
97	DSP LATCH	O	Serial data latch output
98	VREF	I	A/D converter reference voltage input (Connected to +5V)
99	AVCC	I	A/D converter +5V power supply (+5V) (for A/D conversion)
100	AMP. ON	I	Not used (open)

6-32. IC BLOCK DIAGRAMS

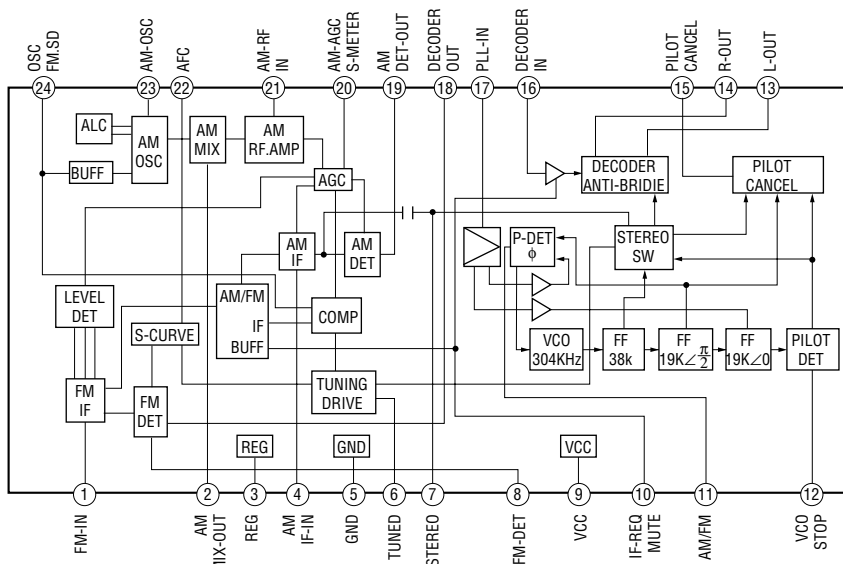
IC103 CXA2581N-T4 (BD BOARD)



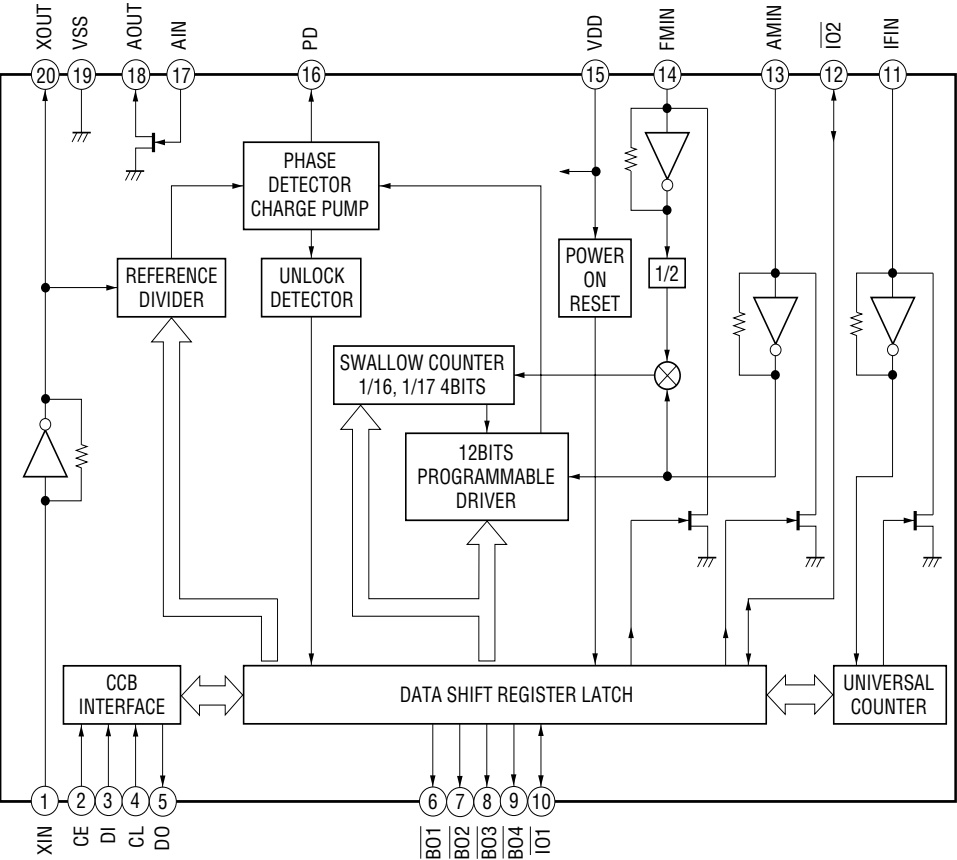
IC302 μ PC1330HA (MAIN BOARD (1/3))



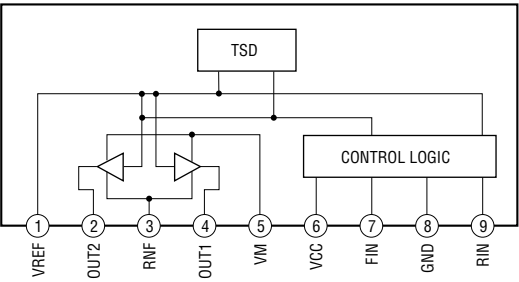
IC11 LA1845 (MAIN BOARD (3/3))

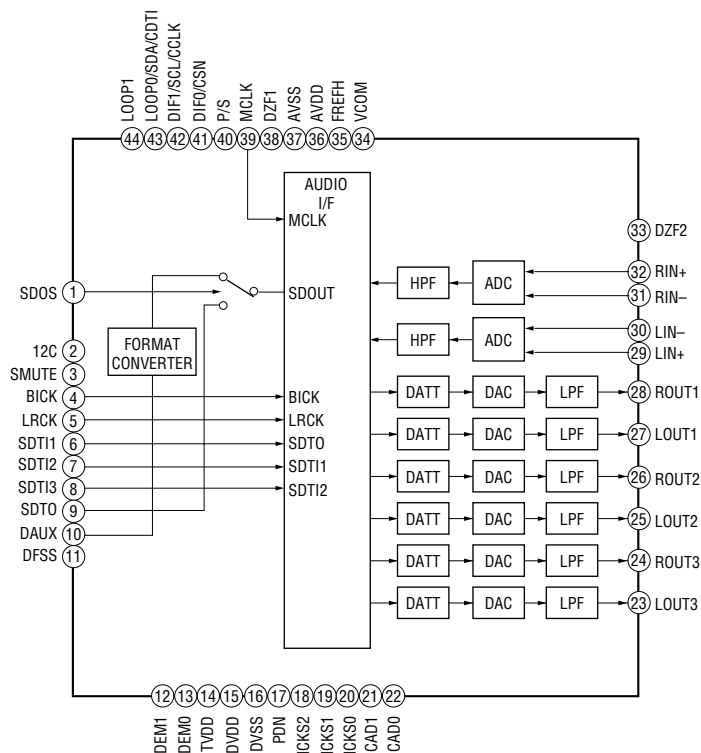
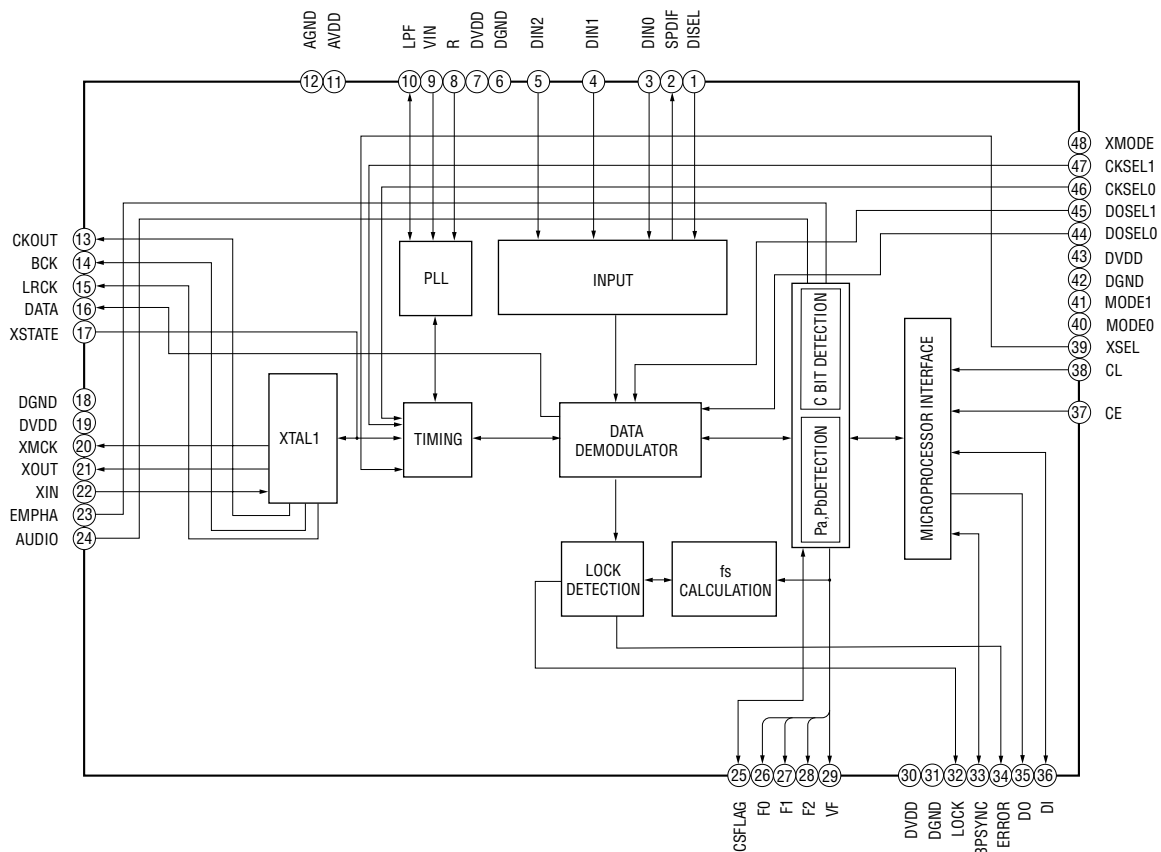


IC51 LC72131D (MAIN BOARD (3/3))

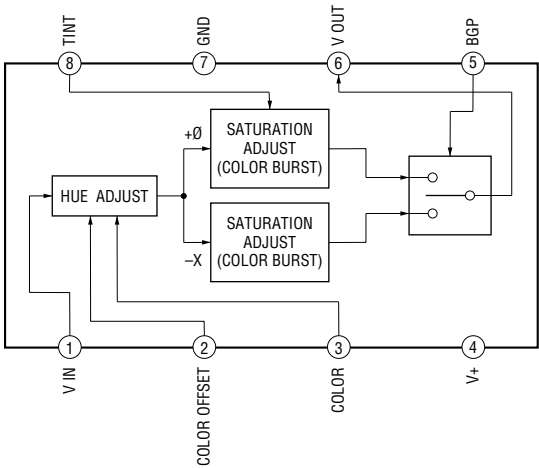


IC701 BA6956AN (DRIVER BOARD)

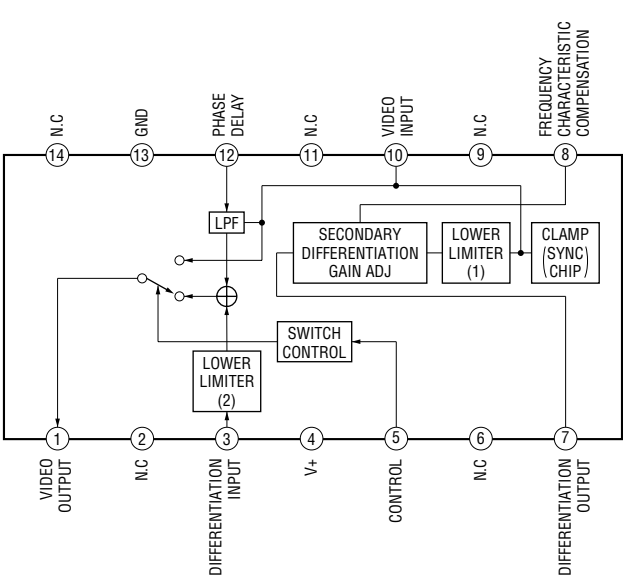


IC605 AK4527 (DSP BOARD (1/2))**IC604 LC89056W-E (DSP BOARD (2/2))**

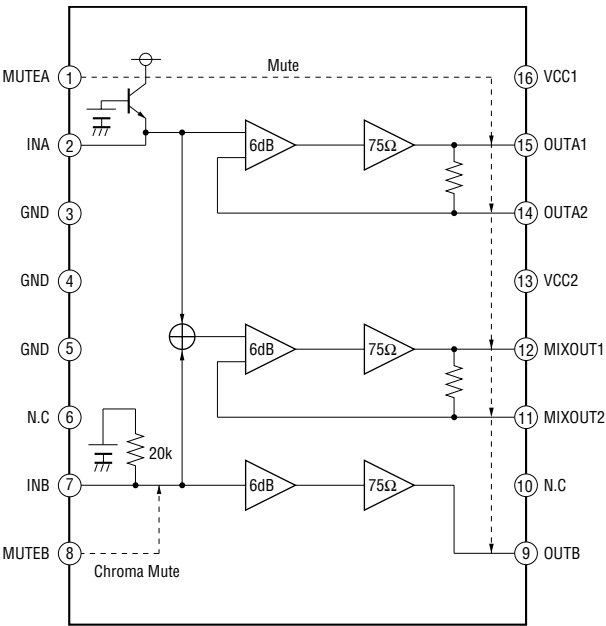
IC302 NJM2255M (VIDEO BOARD)



IC303 NJM2209M (VIDEO BOARD)



IC304 BA7665FS-E2 (VIDEO BOARD)



SECTION 7

EXPLODED VIEWS

NOTE:

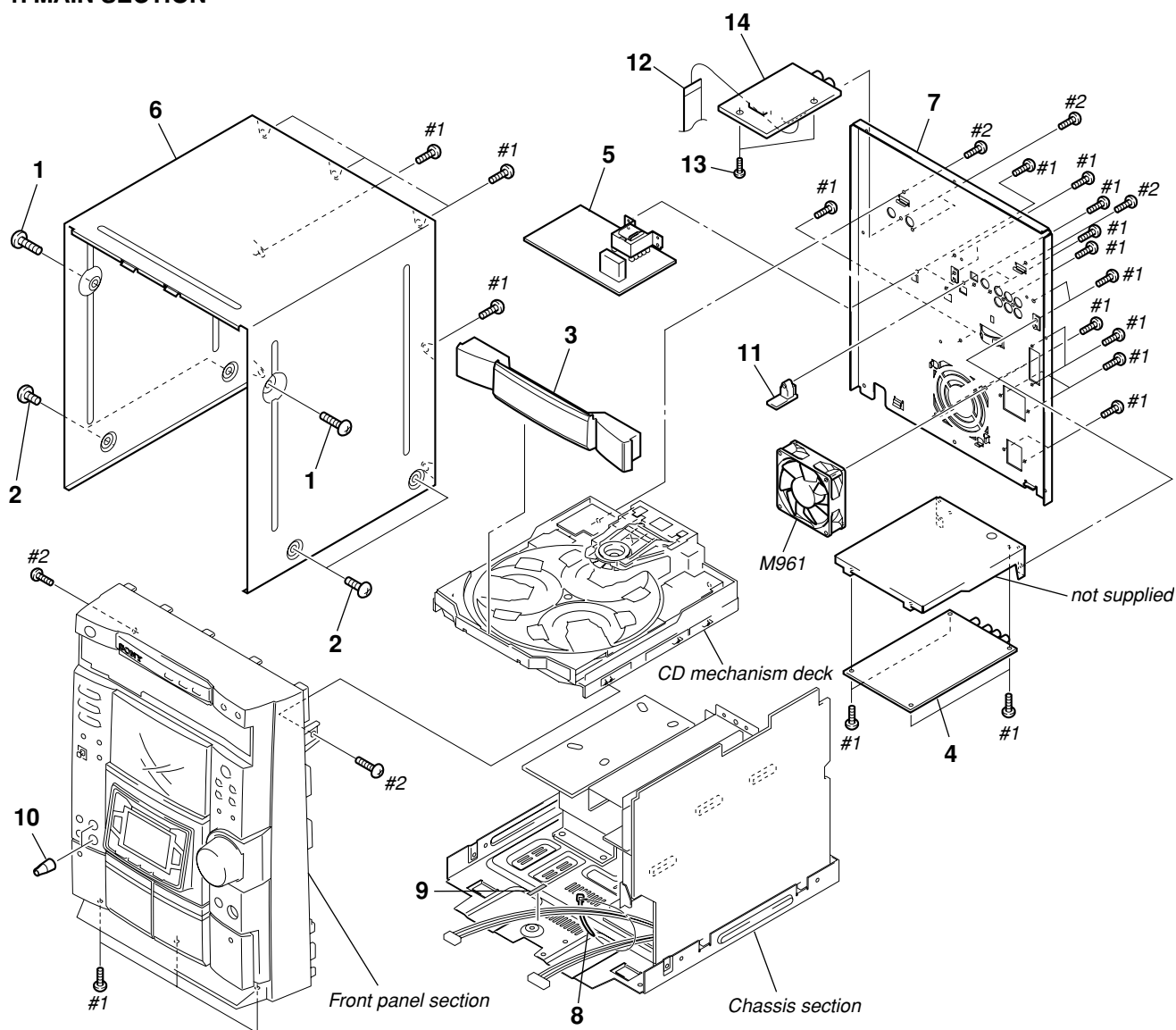
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded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

- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation

SP	: Singapore model
MY	: Malaysia model
TH	: Thai model

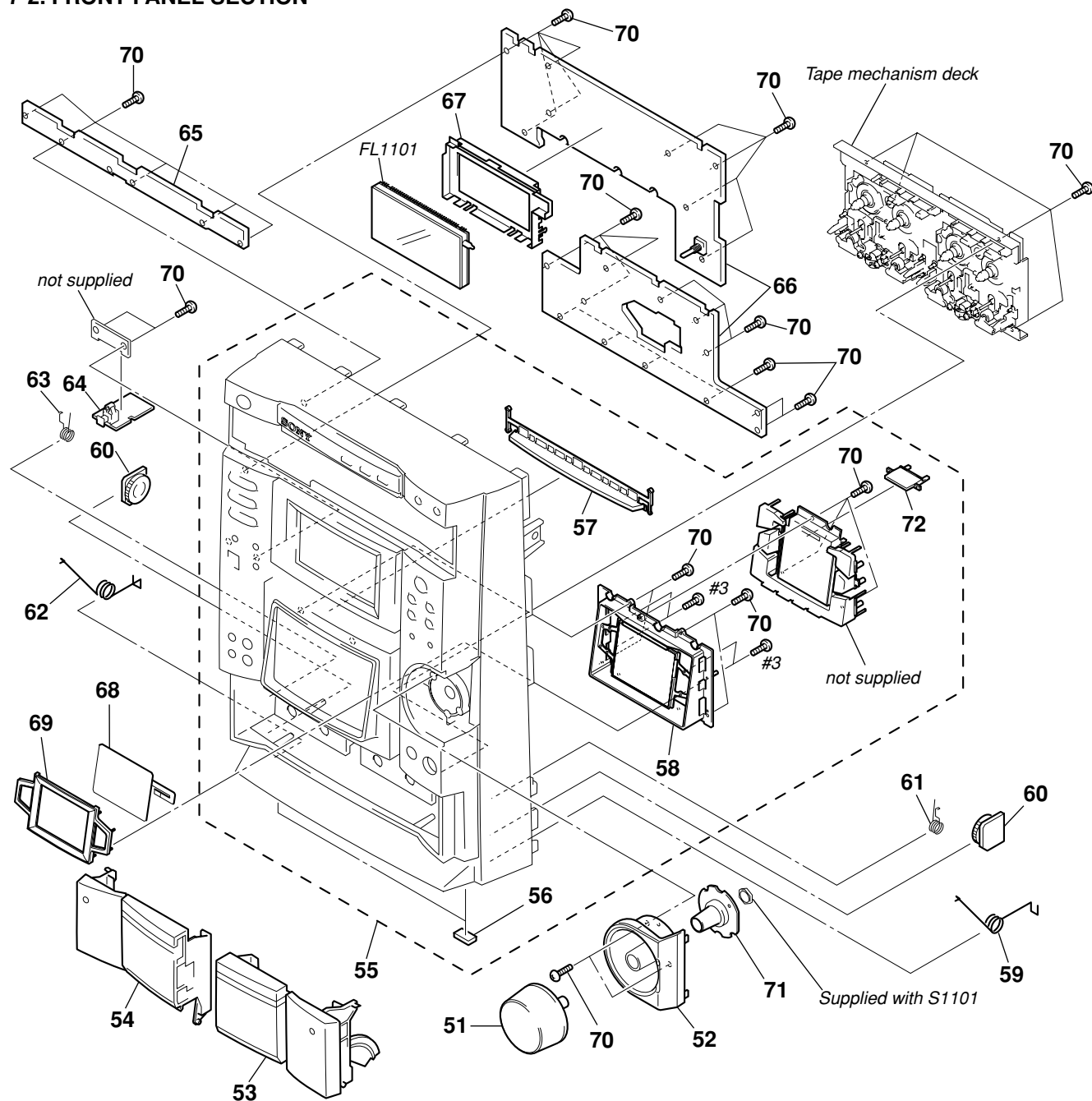
The components identified by mark  or dotted line with mark  are critical for safety.
Replace only with part number specified.

7-1. MAIN SECTION



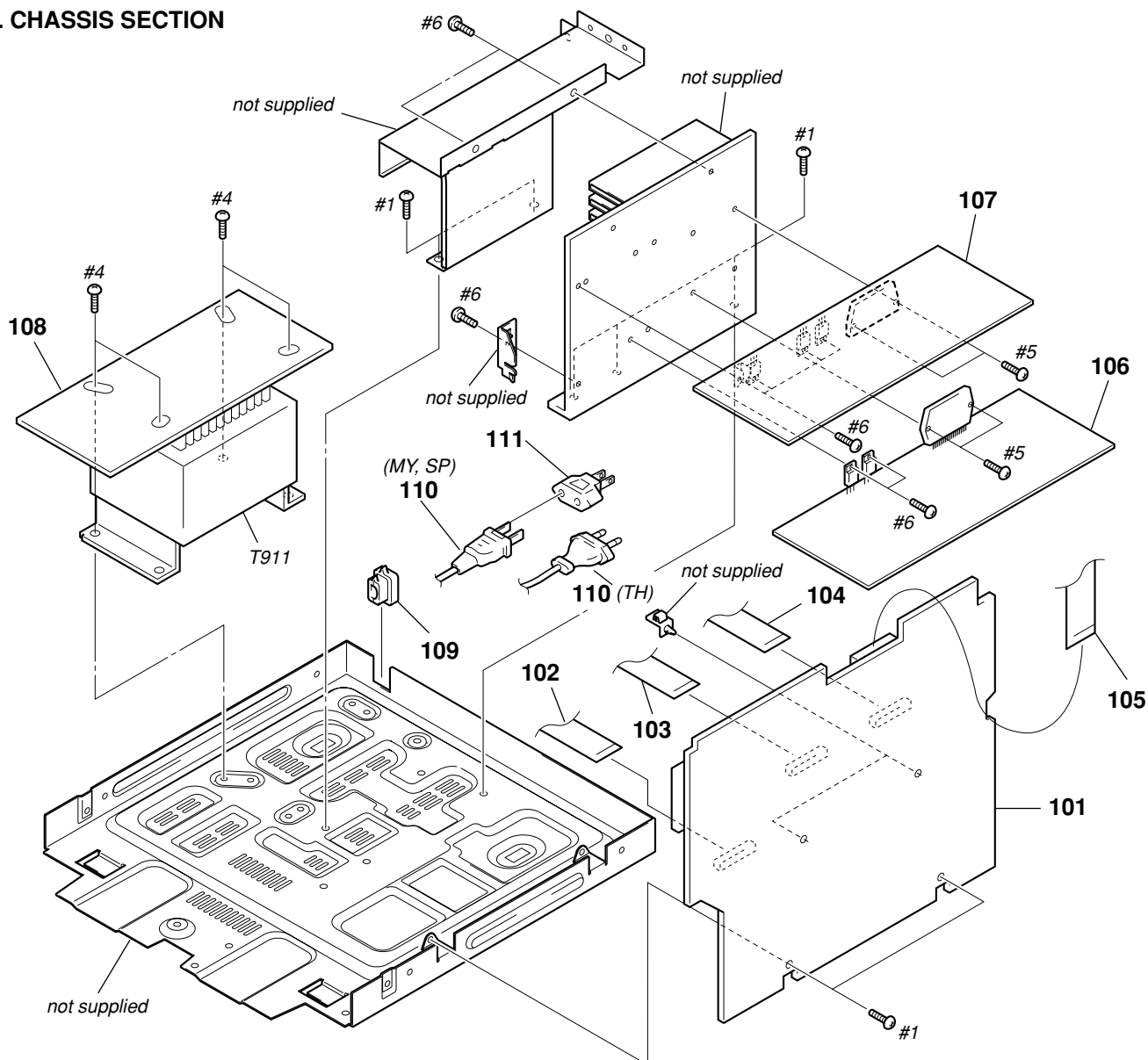
Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
1	3-363-099-41	SCREW (CASE 3 TP2)		8	3-701-748-00	CLAMP	
2	3-363-099-01	SCREW (CASE 3 TP2)					
3	4-231-795-11	PANEL, LOADING		* 9	3-378-109-01	CUSHION, SARANET	
4	A-4475-667-A	DSP BOARD, COMPLETE (SP,MY)		10	4-231-805-01	KNOB (MIC)	
4	A-4475-988-A	DSP BOARD, COMPLETE (TH)		11	1-680-851-11	OPT IN REAR BOARD	
				12	1-757-421-11	WIRE (FLAT TYPE) (25 CORE)	
5	1-680-190-11	SUB TRANS BOARD		13	4-951-620-01	SCREW (2.6X8), +BVTP	
6	4-231-828-31	CASE					
7	4-231-893-01	PANEL, BACK (SP,MY)		14	A-4725-612-A	VIDEO BOARD, COMPLETE	
7	4-231-893-11	PANEL, BACK (TH)		M961	1-763-072-11	FAN. DC	

7-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
51	4-231-804-01	KNOB (VOL)		63	4-231-836-01	SPRING (HEART CAM-A)	
52	4-231-803-01	RING (VOL)		64	1-680-279-11	OPT IN BOARD	
53	X-4953-340-1	LID (B) ASSY, CASSETTE		65	1-680-278-11	CD-PANEL BOARD	
54	X-4953-339-1	LID (A) ASSY, CASSETTE		66	A-4475-695-A	PANEL BOARD, COMPLETE (SP,MY)	
55	X-4953-343-1	PANEL ASSY, FRONT (AR, AUS, KR, MX)		66	A-4476-001-A	PANEL BOARD, COMPLETE (TH)	
56	4-225-252-01	CUSHION (FOOT)		67	4-224-584-01	HOLDER FL	
57	4-231-810-11	BUTTON (EDIT)		68	1-796-001-11	TOUCH PAD	
58	4-231-814-01	ESCUTCHEON (PAD)		69	4-231-815-01	HOLDER (PAD)	
59	4-231-838-01	SPRING (TC-B)		70	4-951-620-01	SCREW (2.6X8), +BVTP	
60	4-224-104-11	DAMPER		71	4-234-763-01	COVER (VOL)	
61	4-231-841-01	SPRING (HEART CAM-B)		72	4-231-818-01	INDICATOR (BLUE)	
62	4-231-837-01	SPRING (TC-A)		FL1101	1-518-722-11	INDICATOR TUBE, FLUORESCENT	

7-3. CHASSIS SECTION



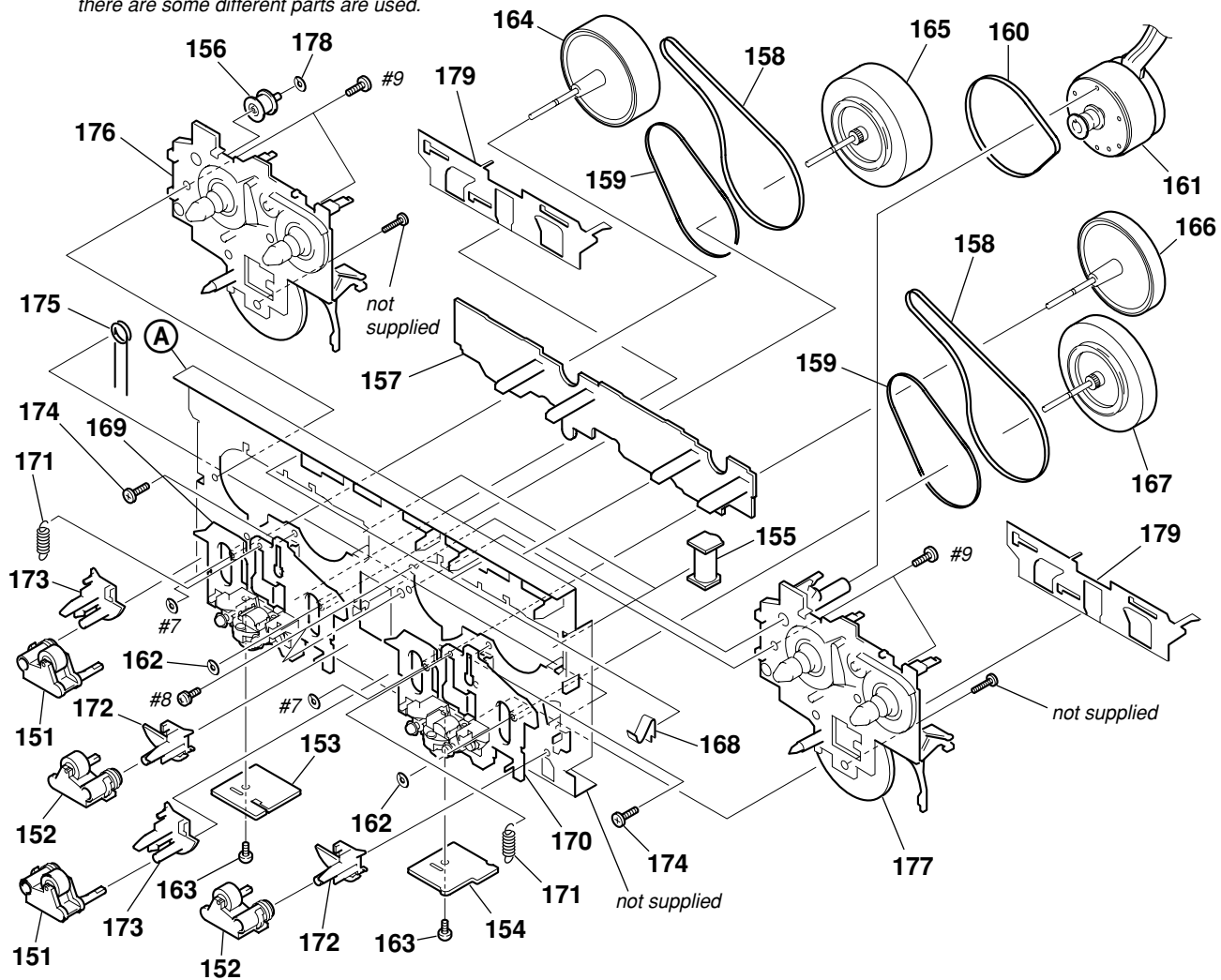
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
101	A-4475-698-A	MAIN BOARD, COMPLETE (SP,MY)		108	1-680-189-11	TRANS BOARD	
101	A-4476-011-A	MAIN BOARD, COMPLETE (TH)					
102	1-773-042-11	WIRE (FLAT TYPE) (17 CORE)		109	3-703-571-11	BUSHING (S) (4516), CORD (TH)	
103	1-757-419-11	WIRE (FLAT TYPE) (21 CORE)		* 109	3-703-244-00	BUSHING (2104), CORD(SP, MY)	
104	1-757-420-11	WIRE (FLAT TYPE) (23 CORE)		⚠ 110	1-575-651-11	CORD, POWER (SP, MY)	
				⚠ 110	1-791-901-11	CORD, POWER (TH)	
				⚠ 111	1-569-008-21	ADAPTOR, CONVERSION (SP, MY)	
105	1-769-986-11	WIRE (FLAT TYPE) (13 CORE)					
106	A-4475-675-A	FRONT AMP BOARD, COMPLETE (SP,MY)		⚠ T911	1-435-814-11	TRANSFORMER, POWER	
106	A-4475-997-A	FRONT AMP BOARD, COMPLETE (TH)					
107	1-680-188-11	SURROUND AMP BOARD					

7-4. TAPE MECHANISM DECK SECTION-1 (TCM-230MWR41)

- The thing that a part (A) curves is TCM-230MWR41.

Note: Two different types of tape mechanism are used depending on models.
They maintain compatibility as an entire mechanism even though
there are some different parts are used.

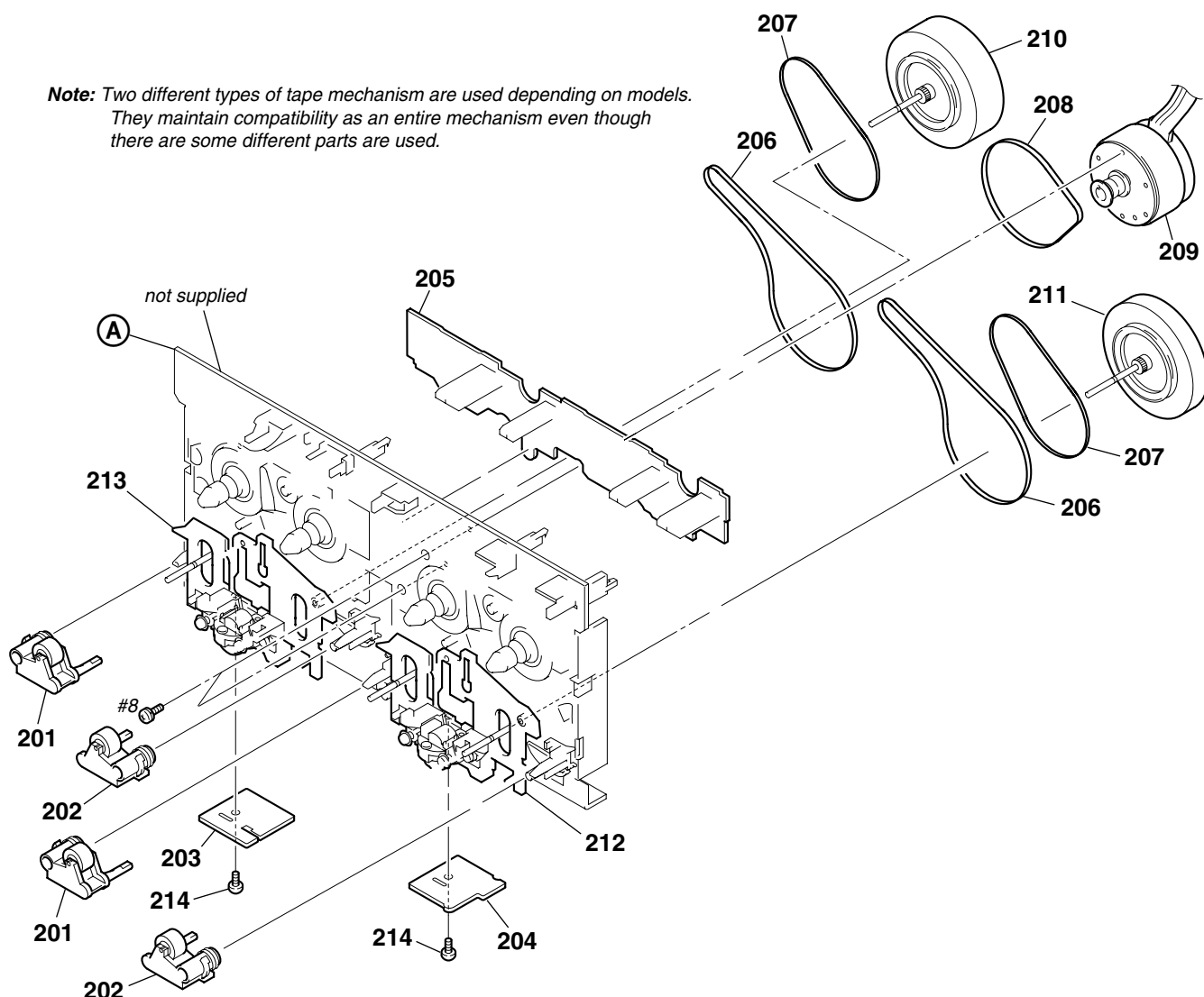


Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
151	X-3374-156-1	PINCH LEVER (REV) ASSY		165	X-3378-040-1	FLYWHEEL (A-FWD) ASSY	
152	X-3374-155-1	PINCH LEVER (FWD) ASSY		166	X-3378-043-1	FLYWHEEL (B-REV) ASSY	
153	A-2007-839-A	HEAD (A) BOARD, COMPLETE		167	X-3378-042-1	FLYWHEEL (B-FWD) ASSY	
154	A-2007-840-A	HEAD (B) BOARD, COMPLETE		168	4-229-083-01	SPRING (CASSETTE), LEAF	
155	1-454-887-11	SOLENOID, PLUNGER		169	A-2004-771-A	BASE (A) ASSY, HEAD	
				170	A-2004-772-A	BASE (B) ASSY, HEAD	
156	3-040-580-11	PULLEY (TENSION)		171	3-016-574-11	SPRING (HEAD), TENSION	
157	A-2007-838-A	LEAF SW BOARD, COMPLETE		172	3-016-564-01	BASE (PINCH LEVER FWD)	
158	3-041-946-01	BELT (CAPSTAN B)		173	3-016-565-01	BASE (PINCH LEVER REV)	
159	3-041-947-01	BELT (FR)		174	3-703-454-21	SCREW (1.7X6), TAPPING	
160	4-227-239-01	BELT (CAPSTAN C)		175	4-228-449-01	SPRING (REVERSE SLIDER)	
161	X-3378-241-1	MOTOR ASSY		176	A-2004-793-A	CHASSIS (A) ASSY, SUB	
162	3-019-208-01	WASHER, STOPPER		177	A-2004-794-A	CHASSIS (B) ASSY, SUB	
163	4-227-872-11	SCREW (+PTT 2X4), GROUND POINT		178	3-016-533-01	WASHER (FR), STOPPER	
164	X-3378-041-1	FLYWHEEL (A-REV) ASSY		179	3-016-566-01	SLIDER, REVERSE	

7-5. TAPE MECHANISM DECK SECTION-2 (TCM-230AWR41)

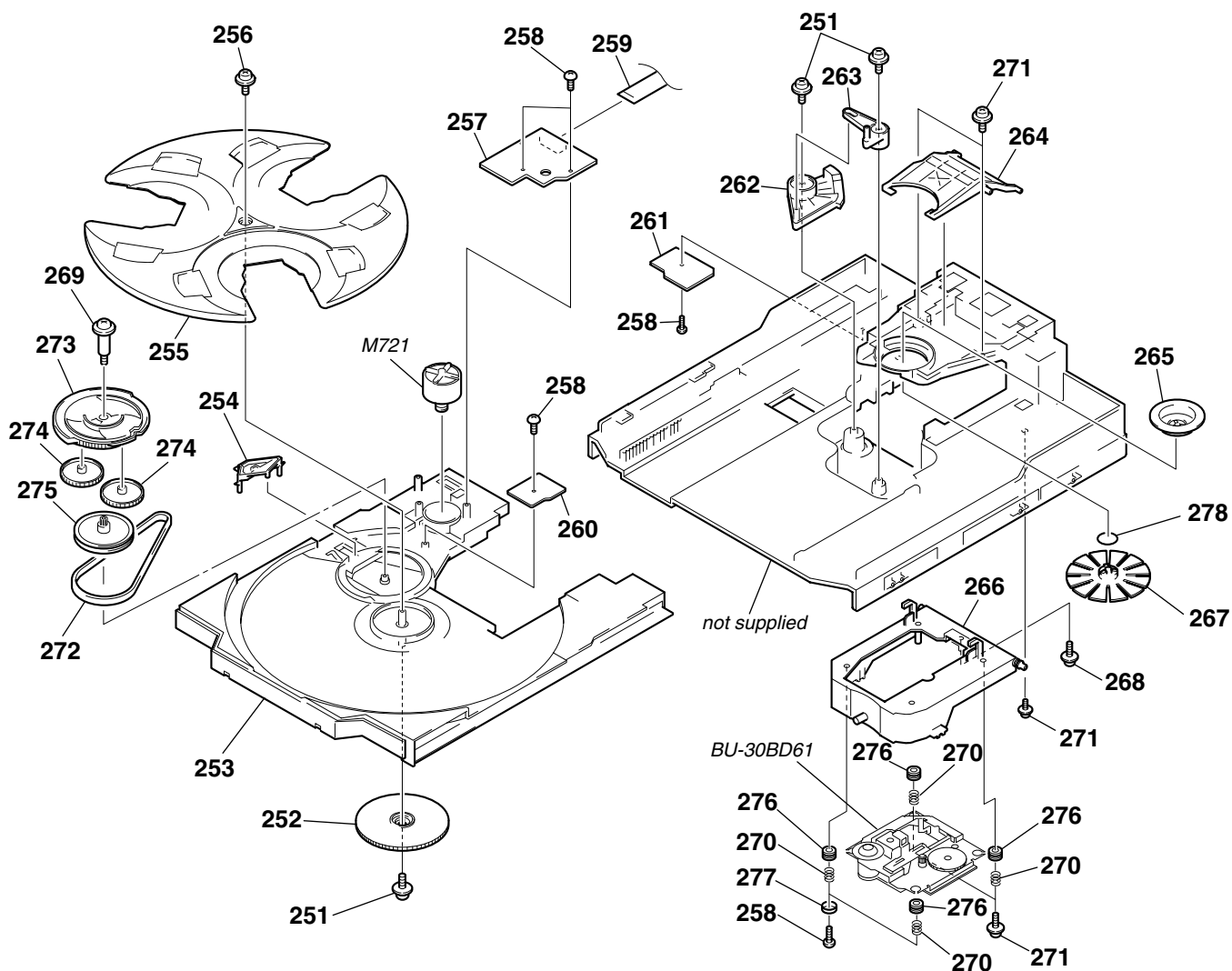
- The thing that a part (A) doesn't curve is TCM-230AWR41.

Note: Two different types of tape mechanism are used depending on models.
They maintain compatibility as an entire mechanism even though there are some different parts are used.



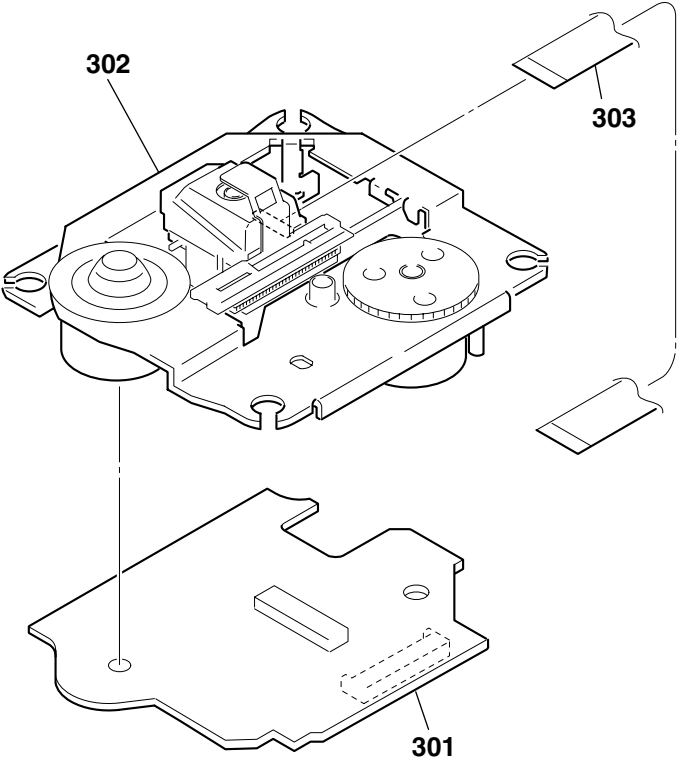
Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
201	X-3374-156-1	PINCH LEVER (REV) ASSY		208	4-227-239-01	BELT (CAPSTAN C)	
202	X-3374-155-1	PINCH LEVER (FWD) ASSY		209	X-3378-241-1	MOTOR ASSY	
203	A-2007-839-A	HEAD (A) BOARD, COMPLETE		210	X-3378-040-1	FLYWHEEL (A-FWD) ASSY	
204	A-2007-840-A	HEAD (B) BOARD, COMPLETE		211	X-3378-042-1	FLYWHEEL (B-FWD) ASSY	
205	A-2007-838-A	LEAF SW BOARD, COMPLETE		212	A-2004-755-A	BASE (B) ASSY, HEAD	
206	3-041-946-01	BELT (CAPSTAN B)		213	A-2004-754-A	BASE (A) ASSY, HEAD	
207	3-041-947-01	BELT (FR)		214	4-227-872-11	SCREW (+PTT 2X4),GROUND POINT	

7-6. CD MECHANISM DECK SECTION (CDM58E-30BD61A)



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
251	4-933-134-11	SCREW (+PTPWH M2.6X8)		266	X-4953-306-1	HOLDER (BU) (BU-30) ASSY	
252	4-221-679-01	CAM (RELAY)		267	X-4953-307-1	PULLEY (A) ASSY, CHUCKING	
253	4-231-452-01	TABLE (NEW)		268	4-227-899-01	SCREW (DIA. 12), FLOATING	
254	4-221-686-01	LEVER (CHANGE)		269	4-222-097-01	SCREW, STEP	
255	4-221-676-01	TRAY		270	4-227-045-11	SPRING (INSULATOR), COIL	
256	4-933-134-51	SCREW (+PTPWH 2.6X8)		271	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING	
257	1-675-910-14	MOTOR BOARD		272	4-222-095-01	BELT	
258	4-951-620-01	SCREW (2.6X8), +BVTP		273	4-221-678-01	CAM (CONTROL)	
259	1-791-983-11	WIRE (FLAT TYPE) (8 CORE)		274	4-221-683-01	GEAR (U)	
260	1-675-911-14	CD SENSOR BOARD		275	4-221-685-01	PULLEY (S)	
261	1-675-912-14	DRIVER BOARD		276	4-231-451-01	INSULATOR (BU-30)	
262	X-4952-608-1	CAM (U/D) ASSY		277	4-231-151-01	STOPPER (BU)	
263	4-221-681-01	LEVER (EX)		278	4-228-414-01	BRACKET (YOKE)	
264	4-221-682-01	LEVER (LIFTER)		M721	A-4672-826-A	MOTOR ASSY	
265	4-231-513-01	PULLEY (B) (BU-30), CHUCKING					

7-7. BASE UNIT SECTION (BU-30BD61A)



<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
301	A-4725-561-A	BD BOARD, COMPLETE		303	1-782-817-11	WIRE (FLAT TYPE) (16 CORE)	
302	A-4735-189-A	BU-30 (61) ASSY					

SECTION 8 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: μF
- RESISTORS
All resistors are in ohms.
METAL: metal-film resistor
METALOXIDE: Metal Oxide-film resistor
F: nonflammable

- COILS
uH: μH
- SEMICONDUCTORS
In each case, u: μ , for example:
uA..., μA ..., uPA..., μPA ...,
uPB..., μPB ..., uPC..., μPC ...,
uPD..., μPD ...
- Abbreviation
SP : Singapore model
MY : Malaysia model
TH : Thai 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 name.

Ref. No.	Part No.	Description	Remarks			
	A-4725-561-A	BD BOARD, COMPLETE *****				
		< CAPACITOR >				
C101	1-164-315-11	CERAMIC CHIP 470PF	5%	50V		
C102	1-107-826-11	CERAMIC CHIP 0.1uF	10%	16V		
C103	1-164-315-11	CERAMIC CHIP 470PF	5%	50V		
C104	1-162-967-11	CERAMIC CHIP 0.0033uF	10%	50V		
C107	1-162-921-11	CERAMIC CHIP 33PF	5%	50V		
C108	1-164-360-11	CERAMIC CHIP 0.1uF		16V		
C109	1-164-360-11	CERAMIC CHIP 0.1uF		16V		
C110	1-107-826-11	CERAMIC CHIP 0.1uF	10%	16V		
C111	1-126-607-11	ELECT CHIP 47uF	20%	4V		
C112	1-126-607-11	ELECT CHIP 47uF	20%	4V		
C113	1-126-209-11	ELECT CHIP 100uF	20%	4V		
C114	1-162-964-11	CERAMIC CHIP 0.001uF	10%	50V		
C115	1-126-205-11	ELECT CHIP 47uF	20%	6.3V		
C117	1-164-360-11	CERAMIC CHIP 0.1uF		16V		
C118	1-115-156-11	CERAMIC CHIP 1uF		10V		
C119	1-115-156-11	CERAMIC CHIP 1uF		10V		
C120	1-126-607-11	ELECT CHIP 47uF	20%	4V		
C151	1-164-227-11	CERAMIC CHIP 0.022uF	10%	25V		
C153	1-164-360-11	CERAMIC CHIP 0.1uF		16V		
C163	1-117-681-11	ELECT CHIP 100uF	20%	16V		
C164	1-164-360-11	CERAMIC CHIP 0.1uF		16V		
C165	1-124-779-00	ELECT CHIP 10uF	20%	16V		
C166	1-164-360-11	CERAMIC CHIP 0.1uF		16V		
C182	1-128-995-21	ELECT CHIP 100uF	20%	10V		
C201	1-126-246-11	ELECT CHIP 220uF	20%	4V		
C202	1-164-360-11	CERAMIC CHIP 0.1uF		16V		
C205	1-164-360-11	CERAMIC CHIP 0.1uF		16V		
C209	1-162-927-11	CERAMIC CHIP 100PF	5%	50V		
C211	1-107-826-11	CERAMIC CHIP 0.1uF	10%	16V		
C212	1-162-965-11	CERAMIC CHIP 0.0015uF	10%	50V		
C213	1-162-967-11	CERAMIC CHIP 0.0033uF	10%	50V		
C215	1-117-863-11	CERAMIC CHIP 0.47uF	10%	6.3V		
C216	1-162-970-11	CERAMIC CHIP 0.01uF	10%	25V		
C221	1-164-360-11	CERAMIC CHIP 0.1uF		16V		
C222	1-164-360-11	CERAMIC CHIP 0.1uF		16V		
C224	1-164-360-11	CERAMIC CHIP 0.1uF		16V		
C226	1-164-360-11	CERAMIC CHIP 0.1uF		16V		
C227	1-164-360-11	CERAMIC CHIP 0.1uF		16V		
C228	1-115-156-11	CERAMIC CHIP 1uF		10V		
C229	1-164-360-11	CERAMIC CHIP 0.1uF		16V		
C231	1-128-995-21	ELECT CHIP 100uF	20%	10V		

Ref. No.	Part No.	Description	Remarks			
C234	1-162-968-11	CERAMIC CHIP 0.0047uF	10%	50V		
C235	1-162-968-11	CERAMIC CHIP 0.0047uF	10%	50V		
C236	1-117-863-11	CERAMIC CHIP 0.47uF	10%	6.3V		
		< CONNECTOR >				
CN101	1-784-875-21	CONNECTOR,FFC(LIF(NON-ZIF))25P				
CN102	1-794-424-11	CONNECTOR, FCC/FPC 16P				
		< DIODE >				
D101	8-719-083-58	DIODE UDZSTE-173.9B				
		< FERRITE BEAD >				
FB101	1-500-445-21	FERRITE 0UH				
		< IC >				
IC101	8-752-408-73	IC CXD3068Q				
IC102	8-759-713-70	IC AN41020A				
IC103	8-752-089-74	IC CXA2581N-T4				
IC106	8-759-834-29	IC MC74VHC1G04DFT1				
		< TRANSISTOR >				
Q101	8-729-049-31	TRANSISTOR 2SB710A-RTX				
Q103	8-729-920-85	TRANSISTOR 2SD1664-QR				
		< RESISTOR >				
R102	1-216-835-11	METAL CHIP 15K	5%	1/16W		
R103	1-216-845-11	METAL CHIP 100K	5%	1/16W		
R104	1-216-835-11	METAL CHIP 15K	5%	1/16W		
R105	1-216-821-11	METAL CHIP 1K	5%	1/16W		
R111	1-216-846-11	METAL CHIP 120K	5%	1/16W		
R113	1-216-826-11	METAL CHIP 2.7K	5%	1/16W		
R114	1-218-745-11	RES-CHIP 160K	5%	1/16W		
R115	1-216-839-11	METAL CHIP 33K	5%	1/16W		
R116	1-216-839-11	METAL CHIP 33K	5%	1/16W		
R118	1-216-864-11	METAL CHIP 0	5%	1/16W		
R120	1-216-846-11	METAL CHIP 120K	5%	1/16W		
R122	1-216-845-11	METAL CHIP 100K	5%	1/16W		
R123	1-216-797-11	METAL CHIP 10	5%	1/16W		
R124	1-216-797-11	METAL CHIP 10	5%	1/16W		
R125	1-216-839-11	METAL CHIP 33K	5%	1/16W		
R126	1-216-839-11	METAL CHIP 33K	5%	1/16W		
R151	1-216-845-11	METAL CHIP 100K	5%	1/16W		
R152	1-216-829-11	METAL CHIP 4.7K	5%	1/16W		
R163	1-216-864-11	METAL CHIP 0	5%	1/16W		
R164	1-216-864-11	METAL CHIP 0	5%	1/16W		

BD

CD PANEL

CD SENSOR

DRIVER

DSP

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
R167	1-216-864-11	METAL CHIP	0 5% 1/16W	R1151	1-249-422-11	CARBON	2.7K 5% 1/4W F
R168	1-216-864-11	METAL CHIP	0 5% 1/16W	R1152	1-249-424-11	CARBON	3.9K 5% 1/4W F
R176	1-216-864-11	METAL CHIP	0 5% 1/16W	R1153	1-249-426-11	CARBON	5.6K 5% 1/4W
R179	1-216-864-11	METAL CHIP	0 5% 1/16W	R1154	1-249-428-11	CARBON	8.2K 5% 1/4W F
R201	1-216-839-11	METAL CHIP	33K 5% 1/16W	< SWITCH >			
R202	1-216-833-11	METAL CHIP	10K 5% 1/16W	S1110	1-762-875-21	SWITCH, KEYBOARD (OPEN/CLOSE ▲)	
R203	1-216-845-11	METAL CHIP	100K 5% 1/16W	S1111	1-762-875-21	SWITCH, KEYBOARD (DISK SKIP EX-CHANGE)	
R204	1-216-827-11	METAL CHIP	3.3K 5% 1/16W	S1112	1-762-875-21	SWITCH, KEYBOARD (DISC 3)	
R205	1-216-821-11	METAL CHIP	1K 5% 1/16W	S1113	1-762-875-21	SWITCH, KEYBOARD (DISC 2)	
R206	1-216-829-11	METAL CHIP	4.7K 5% 1/16W	S1114	1-762-875-21	SWITCH, KEYBOARD (DISK 1)	
R207	1-216-857-11	METAL CHIP	1M 5% 1/16W	S1115	1-762-875-21	SWITCH, KEYBOARD (I/⏻)	
R212	1-216-813-11	METAL CHIP	220 5% 1/16W	*****			
R215	1-216-864-11	METAL CHIP	0 5% 1/16W	1-675-911-14	CD SENSOR BOARD	*****	
R218	1-216-821-11	METAL CHIP	1K 5% 1/16W	< CAPACITOR >			
R219	1-216-821-11	METAL CHIP	1K 5% 1/16W	C712	1-164-159-11	CERAMIC	0.1uF 50V
R220	1-216-864-11	METAL CHIP	0 5% 1/16W	< IC >			
R221	1-216-813-11	METAL CHIP	220 5% 1/16W	IC711	8-749-016-76	IC RPI-321	
R222	1-216-813-11	METAL CHIP	220 5% 1/16W	< RESISTOR >			
R223	1-216-809-11	METAL CHIP	100 5% 1/16W	R711	1-247-876-11	CARBON	75K 5% 1/4W
R224	1-216-813-11	METAL CHIP	220 5% 1/16W	R712	1-249-409-11	CARBON	220 5% 1/4W F
R225	1-216-813-11	METAL CHIP	220 5% 1/16W	R713	1-249-429-11	CARBON	10K 5% 1/4W
R226	1-216-809-11	METAL CHIP	100 5% 1/16W	< SWITCH >			
R227	1-216-845-11	METAL CHIP	100K 5% 1/16W	S711	1-771-821-11	SWITCH, PUSH (1 KEY) (UP/DOWN SW)	
R228	1-216-853-11	METAL CHIP	470K 5% 1/16W	*****			
R229	1-216-825-11	METAL CHIP	2.2K 5% 1/16W	1-675-912-14	DRIVER BOARD	*****	
R230	1-216-864-11	METAL CHIP	0 5% 1/16W	< CAPACITOR >			
R235	1-216-809-11	METAL CHIP	100 5% 1/16W	C702	1-126-964-51	ELECT	10uF 20% 50V
R236	1-216-809-11	METAL CHIP	100 5% 1/16W	< CONNECTOR >			
R237	1-216-809-11	METAL CHIP	100 5% 1/16W	CN701	1-785-336-11	PIN, CONNECTOR(LIGHT ANGLE)10P	
R239	1-216-814-11	METAL CHIP	270 5% 1/16W	CN702	1-785-550-11	CONNECTOR, FFC/FPC 8P	
R240	1-216-864-11	METAL CHIP	0 5% 1/16W	< DIODE >			
< RESISTOR NETWORK >				D701	8-719-983-68	DIODE MTZJ-T-72-3.9A	
RN201	1-233-576-11	RES, CHIP NETWORK 100		< IC >			
RN202	1-233-576-11	RES, CHIP NETWORK 100		IC701	8-759-598-69	IC BA6956AN	
< VARIABLE RESISTOR >				< RESISTOR >			
RV101	1-223-997-21	RES, CARBON ADJ VAR 47K (E-F BALANCE)		R701	1-249-411-11	CARBON	330 5% 1/4W
*****				R702	1-249-401-11	CARBON	47 5% 1/4W F
1-680-278-11	CD PANEL BOARD	*****		*****			
< DIODE >				A-4475-667-A	DSP BOARD, COMPLETE (SP,MY)		
D1114	8-719-057-97	DIODE SEL5923A-TP15 (DISC 1)		A-4475-988-A	DSP BOARD, COMPLETE (TH)	*****	
D1115	8-719-057-97	DIODE SEL5923A-TP15 (DISC 2)		< CAPASITOR >			
D1116	8-719-057-97	DIODE SEL5923A-TP15 (DISC 3)		C601	1-164-156-11	CERAMIC CHIP	0.1uF 25V
D1117	8-719-071-44	DIODE SELS5223C-TP15 (I/⏻)		C602	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
< TRANSISTOR >				< RESISTOR >			
Q1114	8-729-900-80	TRANSISTOR DTC114ES		< CAPASITOR >			
Q1115	8-729-900-80	TRANSISTOR DTC114ES		< CAPASITOR >			
Q1116	8-729-900-80	TRANSISTOR DTC114ES		< CAPASITOR >			
< RESISTOR >				< CAPASITOR >			
R1138	1-249-407-11	CARBON	150 5% 1/4W F	< CAPASITOR >			
R1139	1-249-407-11	CARBON	150 5% 1/4W F	< CAPASITOR >			
R1140	1-249-407-11	CARBON	150 5% 1/4W F	< CAPASITOR >			
R1141	1-249-417-11	CARBON	1K 5% 1/4W F	< CAPASITOR >			
R1150	1-249-421-11	CARBON	2.2K 5% 1/4W F	< CAPASITOR >			

HCD-VP700

DSP

Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
C603	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C678	1-126-964-11	ELECT	10uF	20%	50V
C604	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C679	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C605	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C680	1-126-964-11	ELECT	10uF	20%	50V
C606	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C684	1-126-964-11	ELECT	10uF	20%	50V
C607	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C685	1-126-964-11	ELECT	10uF	20%	50V
C608	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C686	1-126-933-11	ELECT	100uF	20%	16V
C609	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C687	1-126-933-11	ELECT	100uF	20%	16V
C610	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C688	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C611	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C689	1-126-933-11	ELECT	100uF	20%	16V
C612	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C690	1-126-934-11	ELECT	220uF	20%	10V
C613	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C691	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C614	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C692	1-136-165-00	MYLAR	0.1uF	5%	50V
C615	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C693	1-136-165-00	MYLAR	0.1uF	5%	50V
C616	1-126-934-11	ELECT	220uF	20%	10V	C694	1-136-165-00	MYLAR	0.1uF	5%	50V
C617	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C695	1-136-165-00	MYLAR	0.1uF	5%	50V
C618	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C698	1-126-959-11	ELECT	0.47uF	20%	50V
C619	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C699	1-126-964-11	ELECT	10uF	20%	50V
C620	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C700	1-126-964-11	ELECT	10uF	20%	50V
C621	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C704	1-126-961-11	ELECT	2.2uF	20%	50V
C622	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C705	1-126-964-11	ELECT	10uF	20%	50V
C623	1-126-934-11	ELECT	220uF	20%	10V	C706	1-126-964-11	ELECT	10uF	20%	50V
C624	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C707	1-126-964-11	ELECT	10uF	20%	50V
C625	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	C708	1-126-964-11	ELECT	10uF	20%	50V
C626	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	C709	1-126-964-11	ELECT	10uF	20%	50V
C627	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C710	1-126-964-11	ELECT	10uF	20%	50V
C628	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C711	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C629	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C712	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C630	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C713	1-162-957-11	CERAMIC CHIP	220PF	5%	50V
C631	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C714	1-162-957-11	CERAMIC CHIP	220PF	5%	50V
C632	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C715	1-162-957-11	CERAMIC CHIP	220PF	5%	50V
C633	1-126-934-11	ELECT	220uF	20%	10V	C716	1-162-957-11	CERAMIC CHIP	220PF	5%	50V
C634	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C717	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C635	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C719	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C636	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C720	1-162-957-11	CERAMIC CHIP	220PF	5%	50V
C637	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C721	1-126-934-11	ELECT	220uF	20%	10V
C638	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C722	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C639	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C723	1-126-964-11	ELECT	10uF	20%	50V
C640	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C724	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C642	1-162-971-11	CERAMIC CHIP	0.001uF	10%	50V	C725	1-126-964-11	ELECT	10uF	20%	50V
C643	1-162-971-11	CERAMIC CHIP	0.001uF	10%	50V	C726	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C644	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C727	1-126-964-11	ELECT	10uF	20%	50V
C645	1-126-934-11	ELECT	220uF	20%	10V	C728	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C646	1-216-809-11	METAL CHIP	100	5%	1/16W	C729	1-126-964-11	ELECT	10uF	20%	50V
C647	1-126-934-11	ELECT	220uF	20%	10V	C730	1-126-964-11	ELECT	10uF	20%	50V
C658	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C731	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C659	1-126-934-11	ELECT	220uF	20%	10V	C732	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C660	1-126-934-11	ELECT	220uF	20%	10V	C733	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C661	1-126-934-11	ELECT	220uF	20%	10V	C734	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C662	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C735	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C664	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C736	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C665	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C738	1-164-357-11	CERAMIC CHIP	0.001uF	5%	50V
C666	1-126-934-11	ELECT	220uF	20%	10V	C739	1-164-357-11	CERAMIC CHIP	0.001uF	5%	50V
C667	1-126-964-11	ELECT	10uF	20%	50V	C740	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C668	1-126-964-11	ELECT	10uF	20%	50V	C741	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C669	1-126-964-11	ELECT	10uF	20%	50V	C742	1-164-357-11	CERAMIC CHIP	0.001uF	5%	50V
C670	1-126-964-11	ELECT	10uF	20%	50V	< CONNECTOR >					
C671	1-126-964-11	ELECT	10uF	20%	50V						
C672	1-126-964-11	ELECT	10uF	20%	50V						
C673	1-126-964-11	ELECT	10uF	20%	50V	* CN601	1-568-941-11	PIN, CONNECTOR 3P			
C674	1-126-964-11	ELECT	10uF	20%	50V	CN602	1-779-289-11	CONNECTOR,FFC(LIF(NON-ZIF))21P			
						CN603	1-779-291-11	CONNECTOR,FFC(LIF(NON-ZIF))23P			

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
< DIODE >				R602	1-216-813-11	METAL CHIP	220 5% 1/16W
D601	8-719-158-02	DIODE RD3.9SB2		R603	1-216-809-11	METAL CHIP	100 5% 1/16W
D604	8-719-988-61	DIODE 1SS355TE-17		R604	1-216-809-11	METAL CHIP	100 5% 1/16W
D605	8-719-988-61	DIODE 1SS355TE-17		R605	1-216-809-11	METAL CHIP	100 5% 1/16W
D606	8-719-988-61	DIODE 1SS355TE-17		R606	1-216-809-11	METAL CHIP	100 5% 1/16W
D607	8-719-058-24	DIODE RB501V-40TE-17		R608	1-216-809-11	METAL CHIP	100 5% 1/16W
D608	8-719-058-24	DIODE RB501V-40TE-17		R609	1-216-809-11	METAL CHIP	100 5% 1/16W
D609	8-719-058-24	DIODE RB501V-40TE-17		R611	1-216-809-11	METAL CHIP	100 5% 1/16W
D610	8-719-058-24	DIODE RB501V-40TE-17		R612	1-216-809-11	METAL CHIP	100 5% 1/16W
< EARTH TERMINAL >				R613	1-216-809-11	METAL CHIP	100 5% 1/16W
* EP601	1-537-738-21	TERMINAL, EARTH		R614	1-216-809-11	METAL CHIP	100 5% 1/16W
* EP602	1-537-738-21	TERMINAL, EARTH		R615	1-216-809-11	METAL CHIP	100 5% 1/16W
* EP603	1-537-738-21	TERMINAL, EARTH		R616	1-216-809-11	METAL CHIP	100 5% 1/16W
* EP604	1-537-738-21	TERMINAL, EARTH		R617	1-216-809-11	METAL CHIP	100 5% 1/16W
< FERRITE BEAD >				R618	1-216-809-11	METAL CHIP	100 5% 1/16W
FB601	1-216-864-11	METAL CHIP	0 5% 1/16W	R619	1-216-809-11	METAL CHIP	100 5% 1/16W
FB602	1-216-864-11	METAL CHIP	0 5% 1/16W	R620	1-216-809-11	METAL CHIP	100 5% 1/16W
FB603	1-500-445-21	FERRITE	0UH	R621	1-216-809-11	METAL CHIP	100 5% 1/16W
FB604	1-216-864-11	METAL CHIP	0 5% 1/16W	R623	1-216-833-11	METAL CHIP	10K 5% 1/16W
FB606	1-216-805-11	METAL CHIP	47 5% 1/16W	R628	1-216-809-11	METAL CHIP	100 5% 1/16W
FB607	1-500-445-21	FERRITE	0UH	R629	1-216-809-11	METAL CHIP	100 5% 1/16W
FB608	1-500-445-21	FERRITE	0UH	R630	1-216-809-11	METAL CHIP	100 5% 1/16W
FB609	1-500-445-21	FERRITE	0UH	R631	1-216-809-11	METAL CHIP	100 5% 1/16W
< IC >				R632	1-216-809-11	METAL CHIP	100 5% 1/16W
IC601	8-759-698-76	IC CXD9617R		R633	1-216-809-11	METAL CHIP	100 5% 1/16W
IC602	8-759-827-81	IC IS61LV6416-15T(T&R)		R634	1-216-809-11	METAL CHIP	100 5% 1/16W
IC603	8-759-238-47	IC TC74HCT7007AF(EL)		R635	1-216-809-11	METAL CHIP	100 5% 1/16W
IC604	8-759-825-15	IC LC89056W-E		R636	1-216-809-11	METAL CHIP	100 5% 1/16W
IC605	8-759-657-47	IC AK4527		R637	1-216-809-11	METAL CHIP	100 5% 1/16W
IC607	8-749-018-85	IC M61512FP		R638	1-216-809-11	METAL CHIP	100 5% 1/16W
IC608	8-759-549-25	IC SN74LVU04APWR		R639	1-216-809-11	METAL CHIP	100 5% 1/16W
IC609	8-749-923-04	IC TOTX178A (DIGITAL OUT (OPTICAL))		R640	1-216-809-11	METAL CHIP	100 5% 1/16W
IC610	8-759-835-63	IC NJM2391DL1-26-TE1		R641	1-216-809-11	METAL CHIP	100 5% 1/16W
< JACK >				R642	1-216-809-11	METAL CHIP	100 5% 1/16W
J601	1-770-890-11	JACK, PIN 6P (GAME/MD(VIDEO))		R644	1-216-815-11	METAL CHIP	330 5% 1/16W
J602	1-774-785-11	JACK, PIN 1P (SUB WOOFER OUT)		R645	1-216-815-11	METAL CHIP	330 5% 1/16W
< JUMPER RESISTOR >				R646	1-216-815-11	METAL CHIP	330 5% 1/16W
JR602	1-216-864-11	METAL CHIP	0 5% 1/16W	R647	1-216-815-11	METAL CHIP	330 5% 1/16W
JR604	1-216-864-11	METAL CHIP	0 5% 1/16W	R648	1-216-815-11	METAL CHIP	330 5% 1/16W
JR620	1-216-864-11	METAL CHIP	0 5% 1/16W	R649	1-216-817-11	METAL CHIP	470 5% 1/16W
JR621	1-216-864-11	METAL CHIP	0 5% 1/16W	R650	1-216-817-11	METAL CHIP	470 5% 1/16W
JR622	1-216-864-11	METAL CHIP	0 5% 1/16W	R651	1-216-817-11	METAL CHIP	470 5% 1/16W
< TRANSISTOR >				R652	1-216-817-11	METAL CHIP	470 5% 1/16W
Q601	8-729-801-93	TRANSISTOR 2SD1387-3		R667	1-216-809-11	METAL CHIP	100 5% 1/16W
Q603	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R668	1-216-809-11	METAL CHIP	100 5% 1/16W
Q604	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R669	1-216-809-11	METAL CHIP	100 5% 1/16W
Q605	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R670	1-216-809-11	METAL CHIP	100 5% 1/16W
Q606	8-729-141-73	TRANSISTOR 2SC3624A-T1L15L16		R671	1-216-809-11	METAL CHIP	100 5% 1/16W
Q607	8-729-141-73	TRANSISTOR 2SC3624A-T1L15L16		R672	1-216-809-11	METAL CHIP	100 5% 1/16W
Q611	8-729-141-73	TRANSISTOR 2SC3624A-T1L15L16		R673	1-216-809-11	METAL CHIP	100 5% 1/16W
Q612	8-729-113-69	TRANSISTOR FN1F4M-M32		R674	1-216-809-11	METAL CHIP	100 5% 1/16W
Q613	8-729-113-13	TRANSISTOR FA1A4M-L33		R675	1-216-809-11	METAL CHIP	100 5% 1/16W
< RESISTOR >				R676	1-216-809-11	METAL CHIP	100 5% 1/16W
R601	1-216-809-11	METAL CHIP	100 5% 1/16W	R677	1-216-830-11	METAL CHIP	5.6K 5% 1/16W
				R678	1-216-833-11	METAL CHIP	10K 5% 1/16W
				R679	1-216-829-11	METAL CHIP	4.7K 5% 1/16W
				R680	1-216-827-11	METAL CHIP	3.3K 5% 1/16W
				R681	1-216-839-11	METAL CHIP	33K 5% 1/16W
				R682	1-216-809-11	METAL CHIP	100 5% 1/16W
				R683	1-216-809-11	METAL CHIP	100 5% 1/16W
				R684	1-216-809-11	METAL CHIP	100 5% 1/16W

HCD-VP700

DSP	FRONT AMP
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Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description			Remarks
R685	1-216-809-11	METAL CHIP	100	5%	1/16W	R768	1-216-833-11	METAL CHIP	10K	5%	1/16W
R686	1-216-809-11	METAL CHIP	100	5%	1/16W	R769	1-216-821-11	METAL CHIP	1K	5%	1/16W
R687	1-216-809-11	METAL CHIP	100	5%	1/16W	R770	1-216-821-11	METAL CHIP	1K	5%	1/16W
R688	1-216-809-11	METAL CHIP	100	5%	1/16W	R771	1-216-833-11	METAL CHIP	10K	5%	1/16W
R689	1-216-821-11	METAL CHIP	1K	5%	1/16W	R772	1-216-821-11	METAL CHIP	1K	5%	1/16W
R690	1-216-857-11	METAL CHIP	1M	5%	1/16W	R773	1-216-821-11	METAL CHIP	1K	5%	1/16W
R691	1-216-815-11	METAL CHIP	330	5%	1/16W	R774	1-216-821-11	METAL CHIP	1K	5%	1/16W
R692	1-216-809-11	METAL CHIP	100	5%	1/16W	R775	1-216-833-11	METAL CHIP	10K	5%	1/16W
R693	1-216-809-11	METAL CHIP	100	5%	1/16W	R776	1-216-833-11	METAL CHIP	10K	5%	1/16W
R694	1-216-809-11	METAL CHIP	100	5%	1/16W	R777	1-216-833-11	METAL CHIP	10K	5%	1/16W
R695	1-216-809-11	METAL CHIP	100	5%	1/16W	R778	1-216-821-11	METAL CHIP	1K	5%	1/16W
R696	1-216-823-11	METAL CHIP	1.5K	5%	1/16W	R779	1-216-841-11	METAL CHIP	47K	5%	1/16W
R697	1-216-823-11	METAL CHIP	1.5K	5%	1/16W	R780	1-216-841-11	METAL CHIP	47K	5%	1/16W
R698	1-216-852-11	METAL CHIP	390K	5%	1/16W	R781	1-216-841-11	METAL CHIP	47K	5%	1/16W
R699	1-216-852-11	METAL CHIP	390K	5%	1/16W	R782	1-216-841-11	METAL CHIP	47K	5%	1/16W
R700	1-216-833-11	METAL CHIP	10K	5%	1/16W	R783	1-216-809-11	METAL CHIP	100	5%	1/16W
R701	1-216-833-11	METAL CHIP	10K	5%	1/16W						
R702	1-216-857-11	METAL CHIP	1M	5%	1/16W			< VIBRATOR >			
R703	1-216-857-11	METAL CHIP	1M	5%	1/16W	X601	1-579-993-21	VIBRATOR, CERAMIC (13.5MHz)			
R704	1-216-845-11	METAL CHIP	100K	5%	1/16W	*****					
R705	1-216-845-11	METAL CHIP	100K	5%	1/16W						
R706	1-216-841-11	METAL CHIP	47K	5%	1/16W		A-4475-675-A	FRONT AMP BOARD, COMPLETE (SP,MY)			
R707	1-216-841-11	METAL CHIP	47K	5%	1/16W		A-4475-997-A	FRONT AMP BOARD, COMPLETE (TH)			

R708	1-216-857-11	METAL CHIP	1M	5%	1/16W						
R709	1-216-841-11	METAL CHIP	47K	5%	1/16W						
R711	1-216-825-11	METAL CHIP	2.2K	5%	1/16W		7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S			
R712	1-216-845-11	METAL CHIP	100K	5%	1/16W						
R713	1-216-825-11	METAL CHIP	2.2K	5%	1/16W			< CAPASITOR >			
						C801	1-126-964-11	ELECT	10uF	20%	50V
R715	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	C802	1-162-292-31	CERAMIC	680PF	10%	50V
R716	1-216-845-11	METAL CHIP	100K	5%	1/16W	C803	1-162-282-31	CERAMIC	100PF	10%	50V
R717	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	C804	1-126-933-11	ELECT	100uF	20%	16V
R730	1-216-837-11	METAL CHIP	22K	5%	1/16W	C805	1-102-936-00	CERAMIC	3.0PF	+-0.25PF50V	
R731	1-216-829-11	METAL CHIP	4.7K	5%	1/16W						
						C806	1-136-495-11	FILM	0.068uF	5%	50V
R733	1-216-821-11	METAL CHIP	1K	5%	1/16W	C807	1-136-495-11	FILM	0.068uF	5%	50V
R734	1-216-821-11	METAL CHIP	1K	5%	1/16W	C808	1-128-560-11	ELECT	22uF	20%	100V
R736	1-216-821-11	METAL CHIP	1K	5%	1/16W	C812	1-136-165-00	FILM	0.1uF	5%	50V
R737	1-216-821-11	METAL CHIP	1K	5%	1/16W	C816	1-162-306-11	CERAMIC	0.01uF	30%	16V
R740	1-216-835-11	METAL CHIP	15K	5%	1/16W						
						C821	1-128-562-11	ELECT	47uF	20%	100V
R741	1-216-835-11	METAL CHIP	15K	5%	1/16W	C822	1-126-968-11	ELECT	100uF	20%	50V
R744	1-216-833-11	METAL CHIP	10K	5%	1/16W	C831	1-126-964-11	ELECT	10uF	20%	50V
R745	1-216-833-11	METAL CHIP	10K	5%	1/16W	C832	1-126-382-11	ELECT	100uF	20%	10V
R747	1-216-845-11	METAL CHIP	100K	5%	1/16W	C833	1-126-961-11	ELECT	2.2uF	20%	50V
R748	1-216-845-11	METAL CHIP	100K	5%	1/16W						
						C834	1-104-665-11	ELECT	100uF	20%	10V
R749	1-216-834-11	METAL CHIP	12K	5%	1/16W	C851	1-126-964-11	ELECT	10uF	20%	50V
R750	1-216-834-11	METAL CHIP	12K	5%	1/16W	C852	1-162-292-31	CERAMIC	680PF	10%	50V
R751	1-216-841-11	METAL CHIP	47K	5%	1/16W	C853	1-162-282-31	CERAMIC	100PF	10%	50V
R752	1-216-841-11	METAL CHIP	47K	5%	1/16W	C854	1-126-933-11	ELECT	100uF	20%	16V
R753	1-216-809-11	METAL CHIP	100	5%	1/16W						
						C855	1-102-936-00	CERAMIC	3.0PF	+-0.25PF50V	
R754	1-216-809-11	METAL CHIP	100	5%	1/16W	C856	1-136-495-11	FILM	0.068uF	5%	50V
R756	1-216-841-11	METAL CHIP	47K	5%	1/16W	C857	1-136-495-11	FILM	0.068uF	5%	50V
R757	1-216-841-11	METAL CHIP	47K	5%	1/16W	C858	1-128-560-11	ELECT	22uF	20%	100V
R758	1-216-821-11	METAL CHIP	1K	5%	1/16W	C862	1-136-165-00	FILM	0.1uF	5%	50V
R759	1-216-821-11	METAL CHIP	1K	5%	1/16W						
						C871	1-137-749-11	MYLAR	0.1uF		100V
R760	1-216-821-11	METAL CHIP	1K	5%	1/16W	C872	1-137-749-11	MYLAR	0.1uF		100V
R761	1-216-821-11	METAL CHIP	1K	5%	1/16W	C873	1-137-842-11	ELECT	2200uF	20%	80V
R762	1-216-821-11	METAL CHIP	1K	5%	1/16W	C874	1-137-842-11	ELECT	2200uF	20%	80V
R763	1-216-821-11	METAL CHIP	1K	5%	1/16W	C881	1-136-165-00	FILM	0.1uF	5%	50V
R765	1-216-821-11	METAL CHIP	1K	5%	1/16W						
						C882	1-136-165-00	FILM	0.1uF	5%	50V
R766	1-216-821-11	METAL CHIP	1K	5%	1/16W	C883	1-136-165-00	FILM	0.1uF	5%	50V
R767	1-216-821-11	METAL CHIP	1K	5%	1/16W	C884	1-136-165-00	FILM	0.1uF	5%	50V
						C885	1-162-306-11	CERAMIC	0.01uF	30%	16V

HCD-VP700

FRONT AMP

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
C886	1-162-306-11	CERAMIC	0.01uF 30% 16V	R810	1-260-076-11	CARBON	10 5% 1/2W
C923	1-126-964-11	ELECT	10uF 20% 50V	△ R811	1-212-881-11	FUSIBLE	100 5% 1/4W
C924	1-126-926-11	ELECT	1000uF 20% 10V	R812	1-260-330-11	CARBON	1.5K 5% 1/2W
C925	1-126-964-11	ELECT	10uF 20% 50V	R816	1-249-441-11	CARBON	100K 5% 1/4W
C926	1-126-933-11	ELECT	100uF 20% 16V	R817	1-249-441-11	CARBON	100K 5% 1/4W
< CONNECTOR >				R818	1-249-441-11	CARBON	100K 5% 1/4W
CN801	1-573-829-11	CONNECTOR, BOARD TO BOARD 15P		R819	1-249-429-11	CARBON	10K 5% 1/4W
CN802	1-784-031-21	CONNECTOR, BOARD TO BOARD 8P		△ R820	1-202-972-61	FUSIBLE	1 5% 1/4W
CN803	1-691-765-11	PLUG (MICRO CONNECTOR) 3P		R821	1-249-421-11	CARBON	2.2K 5% 1/4W F
< DIODE >				R822	1-249-433-11	CARBON	22K 5% 1/4W
D801	8-719-911-19	DIODE 1SS119-25		R823	1-249-429-11	CARBON	10K 5% 1/4W
D802	8-719-947-65	DIODE MTZJ-T-72-16B		R824	1-249-421-11	CARBON	2.2K 5% 1/4W F
D821	8-719-911-19	DIODE 1SS119-25		R825	1-249-439-11	CARBON	68K 5% 1/4W
D830	8-719-911-19	DIODE 1SS119-25		R826	1-249-426-11	CARBON	5.6K 5% 1/4W
D831	8-719-911-19	DIODE 1SS119-25		R827	1-249-431-11	CARBON	15K 5% 1/4W
D851	8-719-911-19	DIODE 1SS119-25		R828	1-249-435-11	CARBON	33K 5% 1/4W
D852	8-719-947-65	DIODE MTZJ-T-72-16B		R830	1-249-425-11	CARBON	4.7K 5% 1/4W F
D871	8-719-510-68	DIODE D5SBA204101		R831	1-249-425-11	CARBON	4.7K 5% 1/4W F
D881	8-719-911-19	DIODE 1SS119-25		R833	1-249-425-11	CARBON	4.7K 5% 1/4W F
D891	8-719-911-19	DIODE 1SS119-25		R834	1-249-433-11	CARBON	22K 5% 1/4W
< IC >				R835	1-249-435-11	CARBON	33K 5% 1/4W
IC801	8-749-017-04	IC STK412-030		R836	1-249-429-11	CARBON	10K 5% 1/4W
IC922	8-759-701-59	IC NJM7809FA		R837	1-249-429-11	CARBON	10K 5% 1/4W
IC923	8-759-088-08	IC UPC7812AHF		R839	1-249-437-11	CARBON	47K 5% 1/4W
< COIL >				R840	1-249-438-11	CARBON	56K 5% 1/4W
L881	1-420-872-00	COIL, AIR-CORE		R851	1-249-417-11	CARBON	1K 5% 1/4W F
L882	1-420-872-00	COIL, AIR-CORE		R852	1-249-438-11	CARBON	56K 5% 1/4W
< TRANSISTOR >				R853	1-249-407-11	CARBON	150 5% 1/4W F
Q801	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA		R854	1-249-438-11	CARBON	56K 5% 1/4W
Q816	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA		△ R855	1-220-755-11	METAL	0.22 10% 2W
Q817	8-729-119-78	TRANSISTOR 2SC2785-HFE		△ R856	1-220-755-11	METAL	0.22 10% 2W
Q821	8-729-140-82	TRANSISTOR 2SA988-PAFAEA		R857	1-249-417-11	CARBON	1K 5% 1/4W F
Q822	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA		R858	1-249-431-11	CARBON	15K 5% 1/4W
Q823	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA		R859	1-249-441-11	CARBON	100K 5% 1/4W
Q831	8-729-119-78	TRANSISTOR 2SC2785-HFE		R860	1-260-076-11	CARBON	10 5% 1/2W
Q832	8-729-119-78	TRANSISTOR 2SC2785-HFE		△ R861	1-212-881-11	FUSIBLE	100 5% 1/4W
Q833	8-729-119-78	TRANSISTOR 2SC2785-HFE		R862	1-260-330-11	CARBON	1.5K 5% 1/2W
Q834	8-729-119-78	TRANSISTOR 2SC2785-HFE		R871	1-249-441-11	CARBON	100K 5% 1/4W
Q835	8-729-140-82	TRANSISTOR 2SA988-PAFAEA		R872	1-249-441-11	CARBON	100K 5% 1/4W
Q836	8-729-119-78	TRANSISTOR 2SC2785-HFE		△ R880	1-215-890-11	METAL OXIDE	470 5% 2W
Q837	8-729-119-78	TRANSISTOR 2SC2785-HFE		R881	1-260-076-11	CARBON	10 5% 1/2W
Q851	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA		R882	1-260-076-11	CARBON	10 5% 1/2W
Q881	8-729-119-76	TRANSISTOR 2SA1175-HFE		R883	1-260-076-11	CARBON	10 5% 1/2W
Q882	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA		R884	1-260-076-11	CARBON	10 5% 1/2W
< RESISTOR >				R885	1-249-437-11	CARBON	47K 5% 1/4W
R801	1-249-417-11	CARBON	1K 5% 1/4W F	R886	1-249-437-11	CARBON	47K 5% 1/4W
R802	1-249-438-11	CARBON	56K 5% 1/4W	R887	1-249-429-11	CARBON	10K 5% 1/4W
R803	1-249-407-11	CARBON	150 5% 1/4W F	R888	1-249-437-11	CARBON	47K 5% 1/4W
R804	1-249-438-11	CARBON	56K 5% 1/4W	R889	1-249-429-11	CARBON	10K 5% 1/4W
△ R805	1-220-755-11	METAL	0.22 10% 2W	R890	1-249-441-11	CARBON	100K 5% 1/4W
△ R806	1-220-755-11	METAL	0.22 10% 2W	< RELAY >			
R807	1-249-417-11	CARBON	1K 5% 1/4W F	RY881	1-515-920-11	RELAY	
R808	1-249-431-11	CARBON	15K 5% 1/4W	< THERMISTOR >			
R809	1-249-441-11	CARBON	100K 5% 1/4W	TH801	1-807-796-11	THERMISTOR	

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

HCD-VP700

FRONT AMP	HEAD (A)	HEAD (B)	LEAF SW	MAIN
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Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
< TERMINAL >				*****			
TM801	1-694-677-12	TERMINAL BOARD (4P) (FRONT SPEAKER)		A-4475-698-A	MAIN BOARD, COMPLETE (SP,MY)		
*****				A-4476-011-A	MAIN BOARD, COMPLETE (TH)		
A-2007-839-A	HEAD (A) BOARD, COMPLETE	*****		C1	1-162-974-11	CERAMIC CHIP	0.01uF 50V
< CONNECTOR >				C2	1-162-974-11	CERAMIC CHIP	0.01uF 50V
* CN1	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P		C3	1-126-947-11	ELECT	47uF 20% 16V
*****				C4	1-162-974-11	CERAMIC CHIP	0.01uF 50V
A-2007-840-A	HEAD (B) BOARD, COMPLETE			C5	1-162-974-11	CERAMIC CHIP	0.01uF 50V
< CONNECTOR >				C7	1-216-864-11	METAL CHIP	0 5% 1/16W
* CN2	1-564-722-11	PIN, CONNECTOR (SMALL TYPE) 6P		C11	1-162-974-11	CERAMIC CHIP	0.01uF 50V
*****				C12	1-126-947-11	ELECT	47uF 20% 16V
A-2007-838-A	LEAF SW BOARD, COMPLETE	*****		C13	1-162-974-11	CERAMIC CHIP	0.01uF 50V
C1001	1-107-716-11	ELECT	33uF 20% 10V	C14	1-162-974-11	CERAMIC CHIP	0.01uF 50V
< CONNECTOR >				C15	1-162-974-11	CERAMIC CHIP	0.01uF 50V
CN1001	1-784-459-11	CONNECTOR, FFC/FPC 17P		C16	1-126-947-11	ELECT	47uF 20% 16V
< DIODE >				C17	1-126-959-11	ELECT	0.47uF 20% 50V
D1001	8-719-911-19	DIODE 1SS119-25		C18	1-126-960-11	ELECT	1uF 20% 50V
D1002	8-719-911-19	DIODE 1SS119-25		C19	1-126-960-11	ELECT	1uF 20% 50V
< IC >				C20	1-164-245-11	CERAMIC CHIP	0.015uF 10% 25V
IC1001	8-749-016-76	IC RPI-321		C21	1-164-245-11	CERAMIC CHIP	0.015uF 10% 25V
IC1002	8-749-016-76	IC RPI-321		C22	1-162-968-11	CERAMIC CHIP	0.0047uF 10% 50V
< TRANSISTOR >				C23	1-164-360-11	CERAMIC CHIP	0.1uF 16V
Q1001	8-729-029-56	TRANSISTOR DTA144ESA		C24	1-126-963-11	ELECT	4.7uF 20% 50V
< RESISTOR >				C25	1-126-964-11	ELECT	10uF 20% 50V
R907	1-247-879-11	CARBON	100K 5% 1/4W	C26	1-164-471-11	CERAMIC CHIP	680PF 5% 50V
R1001	1-249-409-11	CARBON	220 5% 1/4W F	C27	1-162-974-11	CERAMIC CHIP	0.01uF 50V
R1002	1-249-409-11	CARBON	220 5% 1/4W F	C28	1-126-963-11	ELECT	4.7uF 20% 50V
R1003	1-249-414-11	CARBON	560 5% 1/4W F	C29	1-162-974-11	CERAMIC CHIP	0.01uF 50V
R1004	1-247-834-11	CARBON	1.3K 5% 1/4W	C30	1-126-962-11	ELECT	3.3uF 20% 50V
R1005	1-247-818-11	CARBON	300 5% 1/4W	C31	1-162-974-11	CERAMIC CHIP	0.01uF 50V
R1006	1-247-864-11	CARBON	24K 5% 1/4W	C32	1-126-963-11	ELECT	4.7uF 20% 50V
R1007	1-247-780-00	CARBON	7.5 5% 1/4W	C34	1-162-967-11	CERAMIC CHIP	0.0033uF 10% 50V
R1008	1-249-417-11	CARBON	1K 5% 1/4W F	C35	1-126-947-11	ELECT	47uF 20% 16V
< VARIABLE RESISTOR >				C36	1-126-963-11	ELECT	4.7uF 20% 50V
RV1001	1-241-785-11	RES, ADJ, CARBON 10K (HIGH SPEED)		C38	1-162-967-11	CERAMIC CHIP	0.0033uF 10% 50V
RV1002	1-241-785-11	RES, ADJ, CARBON 10K (NORM SPEED)		C39	1-164-361-11	CERAMIC CHIP	0.047uF 16V
< SWITCH >				C40	1-164-361-11	CERAMIC CHIP	0.047uF 16V
S1001	1-570-953-11	SWITCH, PUSH (1 KEY) (DECK A PLAY)		C41	1-164-227-11	CERAMIC CHIP	0.022uF 10% 25V
S1002	1-570-953-11	SWITCH, PUSH (1 KEY) (DECK B PLAY)		C42	1-162-940-11	CERAMIC CHIP	9PF 0.5PF 50V
S1003	1-771-333-11	SWITCH, LEAF (DECK A HALF)		C43	1-162-974-11	CERAMIC CHIP	0.01uF 50V
S1004	1-771-536-12	SWITCH, LEAF (DECK A 120/70)		C46	1-162-974-11	CERAMIC CHIP	0.01uF 50V
S1005	1-771-536-12	SWITCH, LEAF (DECK A REC)		C51	1-162-920-11	CERAMIC CHIP	27PF 5% 50V
S1006	1-771-333-11	SWITCH, LEAF (DECK B HALF)		C52	1-162-920-11	CERAMIC CHIP	27PF 5% 50V
S1008	1-771-536-12	SWITCH, LEAF (DECK B 120/70)		C53	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
S1009	1-771-536-12	SWITCH, LEAF (DECK B REC)		C56	1-162-974-11	CERAMIC CHIP	0.01uF 50V
				C57	1-126-947-11	ELECT	47uF 20% 16V
				C58	1-126-961-11	ELECT	2.2uF 20% 50V
				C59	1-162-974-11	CERAMIC CHIP	0.01uF 50V
				C60	1-126-947-11	ELECT	47uF 20% 16V
				C61	1-162-974-11	CERAMIC CHIP	0.01uF 50V
				C62	1-126-959-11	ELECT	0.47uF 20% 50V
				C63	1-162-974-11	CERAMIC CHIP	0.01uF 50V
				C69	1-162-974-11	CERAMIC CHIP	0.01uF 50V
				C105	1-126-964-11	ELECT	10uF 20% 50V
				C111	1-162-974-11	CERAMIC CHIP	0.01uF 50V
				C112	1-126-963-11	ELECT	4.7uF 20% 50V
				C113	1-126-965-11	ELECT	22uF 20% 50V
				C114	1-162-974-11	CERAMIC CHIP	0.01uF 50V
				C121	1-107-721-11	ELECT	4.7uF 20% 100V

Ref. No.	Part No.	Description				Remarks	Ref. No.	Part No.	Description				Remarks
C141	1-126-964-11	ELECT	10uF	20%	50V		C357	1-126-960-11	ELECT	1uF	20%	50V	
C143	1-126-964-11	ELECT	10uF	20%	50V		C358	1-126-964-11	ELECT	10uF	20%	50V	
C155	1-126-964-11	ELECT	10uF	20%	50V		C359	1-137-194-11	FILM	0.47uF	5%	50V	
C171	1-107-721-11	ELECT	4.7uF	20%	100V								
C201	1-126-961-11	ELECT	2.2uF	20%	50V		C360	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	
C202	1-126-935-11	ELECT	470uF	20%	10V		C362	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	
C203	1-162-974-11	CERAMIC CHIP	0.01uF		50V		C363	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	
C204	1-126-916-11	ELECT	1000uF	20%	6.3V		C368	1-126-964-11	ELECT	10uF	20%	50V	
C205	1-162-974-11	CERAMIC CHIP	0.01uF		50V		C369	1-126-961-11	ELECT	2.2uF	20%	50V	
C206	1-162-974-11	CERAMIC CHIP	0.01uF		50V		C370	1-126-961-11	ELECT	2.2uF	20%	50V	
C208	1-126-935-11	ELECT	470uF	20%	10V		C371	1-164-392-11	CERAMIC CHIP	390PF	10%	50V	
C251	1-126-961-11	ELECT	2.2uF	20%	50V		C372	1-162-953-11	CERAMIC CHIP	100PF	5%	50V	
C301	1-126-960-11	ELECT	1uF	20%	50V		C373	1-130-487-00	MYLAR	0.022uF	5%	50V	
C302	1-130-479-00	MYLAR	0.0047uF	5%	50V		C374	1-126-964-11	ELECT	10uF	20%	50V	
C303	1-136-165-00	FILM	0.1uF	5%	50V		C375	1-126-965-11	ELECT	22uF	20%	50V	
C304	1-136-165-00	FILM	0.1uF	5%	50V		C376	1-164-392-11	CERAMIC CHIP	390PF	10%	50V	
C305	1-126-964-11	ELECT	10uF	20%	50V		C377	1-104-665-11	ELECT	100uF	20%	10V	
C306	1-126-960-11	ELECT	1uF	20%	50V		C378	1-162-953-11	CERAMIC CHIP	100PF	5%	50V	
C307	1-126-960-11	ELECT	1uF	20%	50V		C379	1-130-483-00	MYLAR	0.01uF	5%	50V	
C308	1-126-964-11	ELECT	10uF	20%	50V		C380	1-126-964-11	ELECT	10uF	20%	50V	
C309	1-137-194-11	FILM	0.47uF	5%	50V		C381	1-126-965-11	ELECT	22uF	20%	50V	
C310	1-162-962-11	CERAMIC CHIP	470PF	10%	50V		C382	1-137-427-11	MYLAR	120PF	5%	50V	
C311	1-126-964-11	ELECT	10uF	20%	50V		C383	1-162-961-11	CERAMIC CHIP	330PF	10%	50V	
C312	1-126-959-11	ELECT	0.47uF	20%	50V		C384	1-162-920-11	CERAMIC CHIP	27PF	5%	50V	
C313	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V		C393	1-126-964-11	ELECT	10uF	20%	50V	
C314	1-126-964-11	ELECT	10uF	20%	50V		C410	1-162-918-11	CERAMIC CHIP	18PF	5%	50V	
C315	1-126-963-11	ELECT	4.7uF	20%	50V		C411	1-162-917-11	CERAMIC CHIP	15PF	5%	50V	
C316	1-126-933-11	ELECT	100uF	20%	16V		C412	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C317	1-104-665-11	ELECT	100uF	20%	10V		C414	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C318	1-126-964-11	ELECT	10uF	20%	50V		C416	1-126-916-11	ELECT	1000uF	20%	6.3V	
C319	1-126-961-11	ELECT	2.2uF	20%	50V		C445	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C320	1-126-961-11	ELECT	2.2uF	20%	50V		C462	1-104-665-11	ELECT	100uF	20%	10V	
C321	1-164-392-11	CERAMIC CHIP	390PF	10%	50V		C464	1-162-974-11	CERAMIC CHIP	0.01uF		50V	
C322	1-162-953-11	CERAMIC CHIP	100PF	5%	50V		C497	1-126-964-11	ELECT	10uF	20%	50V	
C323	1-130-487-00	MYLAR	0.022uF	5%	50V		C498	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C324	1-126-964-11	ELECT	10uF	20%	50V		C499	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C325	1-126-965-11	ELECT	22uF	20%	50V		C501	1-126-964-11	ELECT	10uF	20%	50V	
C326	1-164-392-11	CERAMIC CHIP	390PF	10%	50V		C502	1-136-165-00	FILM	0.1uF	5%	50V	
C327	1-104-665-11	ELECT	100uF	20%	10V		C503	1-136-165-00	FILM	0.1uF	5%	50V	
C328	1-162-953-11	CERAMIC CHIP	100PF	5%	50V		C504	1-109-953-11	ELECT	2.2uF	20%	50V	
C329	1-130-483-00	MYLAR	0.01uF	5%	50V		C505	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C330	1-126-964-11	ELECT	10uF	20%	50V		C506	1-107-717-11	ELECT	47uF	20%	50V	
C331	1-126-965-11	ELECT	22uF	20%	50V		C511	1-162-974-11	CERAMIC CHIP	0.01uF		50V	
C332	1-137-427-11	MYLAR	120PF	5%	50V		C512	1-162-974-11	CERAMIC CHIP	0.01uF		50V	
C333	1-162-961-11	CERAMIC CHIP	330PF	10%	50V		C951	1-128-549-11	ELECT	3300uF	20%	35V	
C334	1-162-920-11	CERAMIC CHIP	27PF	5%	50V		C952	1-130-483-00	MYLAR	0.01uF	5%	50V	
C335	1-137-150-11	MYLAR	0.01uF	5%	100V		C953	1-130-483-00	MYLAR	0.01uF	5%	50V	
C336	1-126-961-11	ELECT	2.2uF	20%	50V		C954	1-126-944-11	ELECT	3300uF	20%	25V	
C337	1-130-485-00	MYLAR	0.015uF	5%	50V		C955	1-130-483-00	MYLAR	0.01uF	5%	50V	
C338	1-130-481-00	MYLAR	0.0068uF	5%	50V		C956	1-130-483-00	MYLAR	0.01uF	5%	50V	
C339	1-130-481-00	MYLAR	0.0068uF	5%	50V		C961	1-126-961-11	ELECT	2.2uF	20%	50V	
C340	1-130-486-00	MYLAR	0.018uF	10%	50V		C971	1-162-974-11	CERAMIC CHIP	0.01uF		50V	
C341	1-126-960-11	ELECT	1uF	20%	50V		C972	1-126-935-11	ELECT	470uF	20%	16V	
C342	1-126-947-11	ELECT	47uF	20%	16V		C973	1-162-974-11	CERAMIC CHIP	0.01uF		50V	
C343	1-126-964-11	ELECT	10uF	20%	50V		C974	1-126-916-11	ELECT	1000uF	20%	6.3V	
C351	1-126-960-11	ELECT	1uF	20%	50V		C975	1-162-974-11	CERAMIC CHIP	0.01uF		50V	
C352	1-130-479-00	MYLAR	0.0047uF	5%	50V		C976	1-126-916-11	ELECT	1000uF	20%	6.3V	
C353	1-136-165-00	FILM	0.1uF	5%	50V		C977	1-162-974-11	CERAMIC CHIP	0.01uF		50V	
C354	1-136-165-00	FILM	0.1uF	5%	50V		< FILTER >						
C355	1-126-964-11	ELECT	10uF	20%	50V		CF1	1-760-233-71	FILTER, CERAMIC				
C356	1-126-960-11	ELECT	1uF	20%	50V		CF2	1-760-233-71	FILTER, CERAMIC				

HCD-VP700

MAIN

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
< CONNECTOR >				IC301	8-759-652-02	IC HA12226F	
* CN101	1-774-876-21	CONNECTOR, BOARD TO BOARD 8P		IC302	8-759-143-54	IC uPC1330HA	
CN102	1-573-847-11	CONNECTOR, BOARD TO BOARD 15P		IC303	8-759-656-83	IC NJM4580MD-(TE2)	
CN103	1-784-038-21	CONNECTOR, BOARD TO BOARD 9P		IC304	8-759-656-83	IC NJM4580MD-(TE2)	
* CN104	1-564-518-11	PLUG, CONNECTOR 3P		IC401	8-759-712-89	IC M30622MGA-A36FP	
CN201	1-784-735-11	CONNECTOR, FFC 13P		IC501	8-759-635-63	IC M51943BSL-TP	
CN202	1-785-336-11	PIN, CONNECTOR(LIGHT ANGLE)10P		< IFT >			
CN304	1-784-778-11	CONNECTOR, FFC 17P		IFT11	1-435-848-11	TRANSFORMER,IF(CERAMIC FILTER)	
CN401	1-793-766-11	CONNECTOR, BOARD TO BOARD 30P		< JUMPER RESISTOR >			
CN402	1-506-469-11	PIN, CONNECTOR 4P		JR1	1-216-864-11	METAL CHIP 0 5%	1/16W
CN501	1-779-289-11	CONNECTOR,FFC(LIF(NON-ZIF))21P		JR2	1-216-864-11	METAL CHIP 0 5%	1/16W
CN502	1-779-291-11	CONNECTOR,FFC(LIF(NON-ZIF))23P		JR3	1-216-864-11	METAL CHIP 0 5%	1/16W
< DIODE >				JR4	1-216-864-11	METAL CHIP 0 5%	1/16W
D51	8-719-988-61	DIODE 1SS355TE-17		JR5	1-216-864-11	METAL CHIP 0 5%	1/16W
D111	8-719-988-61	DIODE 1SS355TE-17		JR7	1-216-864-11	METAL CHIP 0 5%	1/16W
D112	8-719-056-82	DIODE UDZ-TE-17-6.2B		JR8	1-216-864-11	METAL CHIP 0 5%	1/16W
D113	8-719-056-83	DIODE UDZ-TE-17-6.8B		JR9	1-216-864-11	METAL CHIP 0 5%	1/16W
D501	8-719-988-61	DIODE 1SS355TE-17		JR11	1-216-864-11	METAL CHIP 0 5%	1/16W
D502	8-719-988-61	DIODE 1SS355TE-17		JR13	1-216-864-11	METAL CHIP 0 5%	1/16W
D503	8-719-988-61	DIODE 1SS355TE-17		JR15	1-216-864-11	METAL CHIP 0 5%	1/16W
D504	8-719-988-61	DIODE 1SS355TE-17		JR19	1-216-864-11	METAL CHIP 0 5%	1/16W
D505	8-719-988-61	DIODE 1SS355TE-17		JR21	1-216-864-11	METAL CHIP 0 5%	1/16W
D506	8-719-988-61	DIODE 1SS355TE-17		JR22	1-216-864-11	METAL CHIP 0 5%	1/16W
D507	8-719-988-61	DIODE 1SS355TE-17		JR23	1-216-864-11	METAL CHIP 0 5%	1/16W
D508	8-719-988-61	DIODE 1SS355TE-17		JR24	1-216-864-11	METAL CHIP 0 5%	1/16W
D509	8-719-988-61	DIODE 1SS355TE-17		JR25	1-216-864-11	METAL CHIP 0 5%	1/16W
D510	8-719-988-61	DIODE 1SS355TE-17		JR26	1-216-864-11	METAL CHIP 0 5%	1/16W
D511	8-719-988-61	DIODE 1SS355TE-17		JR27	1-216-864-11	METAL CHIP 0 5%	1/16W
D512	8-719-988-61	DIODE 1SS355TE-17		JR29	1-216-864-11	METAL CHIP 0 5%	1/16W
D513	8-719-988-61	DIODE 1SS355TE-17		JR30	1-216-864-11	METAL CHIP 0 5%	1/16W
D950	8-719-028-23	DIODE D3SBA20-4101		JR31	1-216-864-11	METAL CHIP 0 5%	1/16W
D959	8-719-028-23	DIODE D3SBA20-4101		JR32	1-216-864-11	METAL CHIP 0 5%	1/16W
D961	8-719-988-61	DIODE 1SS355TE-17		JR33	1-216-864-11	METAL CHIP 0 5%	1/16W
D962	8-719-988-61	DIODE 1SS355TE-17		JR34	1-216-864-11	METAL CHIP 0 5%	1/16W
D971	8-719-200-82	DIODE 11ES2		JR201	1-216-864-11	METAL CHIP 0 5%	1/16W
D972	8-719-200-82	DIODE 11ES2		JR202	1-216-864-11	METAL CHIP 0 5%	1/16W
D973	8-719-200-82	DIODE 11ES2		JR203	1-216-864-11	METAL CHIP 0 5%	1/16W
D974	8-719-200-82	DIODE 11ES2		JR209	1-216-864-11	METAL CHIP 0 5%	1/16W
D975	8-719-200-82	DIODE 11ES2		JR400	1-216-864-11	METAL CHIP 0 5%	1/16W
D976	8-719-200-82	DIODE 11ES2		JR416	1-216-864-11	METAL CHIP 0 5%	1/16W
D981	8-719-200-82	DIODE 11ES2		JR418	1-216-864-11	METAL CHIP 0 5%	1/16W
D982	8-719-200-82	DIODE 11ES2		JR419	1-216-864-11	METAL CHIP 0 5%	1/16W
D983	8-719-200-82	DIODE 11ES2		JR420	1-216-864-11	METAL CHIP 0 5%	1/16W
D984	8-719-200-82	DIODE 11ES2		JR462	1-216-864-11	METAL CHIP 0 5%	1/16W
< FERRITE BEAD >				JR499	1-216-864-11	METAL CHIP 0 5%	1/16W
FB204	1-500-445-21	FERRITE 0UH		< COIL >			
FB205	1-500-445-21	FERRITE 0UH		L210	1-410-482-31	INDUCTOR 100uH	
FB206	1-412-473-51	INDUCTOR 0UH		L301	1-410-780-11	INDUCTOR 27MH	
FB207	1-412-473-51	INDUCTOR 0UH		L302	1-414-193-41	INDUCTOR 220uH	
< FRONT END >				L303	1-414-193-41	INDUCTOR 220uH	
FE1	1-693-477-12	FRONT END (3 GANGS)		L351	1-410-780-11	INDUCTOR 27MH	
< IC >				L971	1-410-478-11	INDUCTOR 47uH	
IC11	8-759-828-33	IC LA1845		< FILTER >			
IC51	8-759-590-13	IC LC72131D		LPF11	1-234-612-11	FILTER, LOW PASS	
				LPF12	1-234-612-11	FILTER, LOW PASS	

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
< TRANSISTOR >				R31	1-216-864-11	METAL CHIP	0 5% 1/16W
Q1	8-729-055-80	TRANSISTOR	2SC1674LK-TP	R41	1-216-833-11	METAL CHIP	10K 5% 1/16W
Q2	8-729-422-57	TRANSISTOR	UN4111	R42	1-216-845-11	METAL CHIP	100K 5% 1/16W
Q11	8-729-620-05	TRANSISTOR	2SC2603-EF	R43	1-216-839-11	METAL CHIP	33K 5% 1/16W
Q12	8-729-620-05	TRANSISTOR	2SC2603-EF	R55	1-216-833-11	METAL CHIP	10K 5% 1/16W
Q111	8-729-119-78	TRANSISTOR	2SC2785-HFE	R56	1-216-833-11	METAL CHIP	10K 5% 1/16W
Q112	8-729-119-78	TRANSISTOR	2SC2785-HFE	R58	1-216-809-11	METAL CHIP	100 5% 1/16W
Q113	8-729-026-68	TRANSISTOR	2SD2525(TP)	R59	1-216-825-11	METAL CHIP	2.2K 5% 1/16W
Q114	8-729-900-36	TRANSISTOR	DTC124ES	R60	1-216-825-11	METAL CHIP	2.2K 5% 1/16W
Q121	8-729-141-30	TRANSISTOR	2SC3623A-LK	R61	1-216-809-11	METAL CHIP	100 5% 1/16W
Q141	8-729-119-78	TRANSISTOR	2SC2785-HFE	R62	1-216-829-11	METAL CHIP	4.7K 5% 1/16W
Q171	8-729-141-30	TRANSISTOR	2SC3623A-LK	R63	1-216-829-11	METAL CHIP	4.7K 5% 1/16W
Q301	8-729-801-93	TRANSISTOR	2SD1387-3	R64	1-216-829-11	METAL CHIP	4.7K 5% 1/16W
Q302	8-729-142-46	TRANSISTOR	2SC2001-LK	R65	1-216-809-11	METAL CHIP	100 5% 1/16W
Q303	8-729-142-46	TRANSISTOR	2SC2001-LK	R66	1-216-833-11	METAL CHIP	10K 5% 1/16W
Q304	8-729-900-63	TRANSISTOR	DTA124ES	R67	1-216-833-11	METAL CHIP	10K 5% 1/16W
Q305	8-729-900-80	TRANSISTOR	DTC114ES	R68	1-216-821-11	METAL CHIP	1K 5% 1/16W
Q391	8-729-140-04	TRANSISTOR	2SB1116A-L	R69	1-216-829-11	METAL CHIP	4.7K 5% 1/16W
Q392	8-729-900-80	TRANSISTOR	DTC114ES	R111	1-216-829-11	METAL CHIP	4.7K 5% 1/16W
Q393	8-729-140-04	TRANSISTOR	2SB1116A-L	R112	1-216-841-11	METAL CHIP	47K 5% 1/16W
Q394	8-729-900-80	TRANSISTOR	DTC114ES	R113	1-216-837-11	METAL CHIP	22K 5% 1/16W
Q395	8-729-900-80	TRANSISTOR	DTC114ES	R114	1-216-849-11	METAL CHIP	220K 5% 1/16W
Q396	8-729-116-57	TRANSISTOR	2SB1068-K	R115	1-216-837-11	METAL CHIP	22K 5% 1/16W
Q397	8-729-900-80	TRANSISTOR	DTC114ES	R121	1-215-891-11	METAL OXIDE	680 5% 2W
Q501	8-729-119-78	TRANSISTOR	2SC2785-HFE	R122	1-216-821-11	METAL CHIP	1K 5% 1/16W
Q502	8-729-900-63	TRANSISTOR	DTA124ES	R124	1-216-837-11	METAL CHIP	22K 5% 1/16W
Q503	8-729-900-63	TRANSISTOR	DTA124ES	R141	1-216-821-11	METAL CHIP	1K 5% 1/16W
Q504	8-729-900-63	TRANSISTOR	DTA124ES	R142	1-216-822-11	METAL CHIP	1.2K 5% 1/16W
Q505	8-729-900-36	TRANSISTOR	DTC124ES	R143	1-216-817-11	METAL CHIP	470 5% 1/16W
Q506	8-729-119-78	TRANSISTOR	2SC2785-HFE	R171	1-215-891-11	METAL OXIDE	680 5% 2W
Q507	8-729-422-57	TRANSISTOR	UN4111	R172	1-216-821-11	METAL CHIP	1K 5% 1/16W
< RESISTOR >				R174	1-216-837-11	METAL CHIP	22K 5% 1/16W
R1	1-216-864-11	METAL CHIP	0 5% 1/16W	R175	1-216-826-11	METAL CHIP	2.7K 5% 1/16W
R3	1-216-805-11	METAL CHIP	47 5% 1/16W	R201	1-216-809-11	METAL CHIP	100 5% 1/16W
R4	1-216-805-11	METAL CHIP	47 5% 1/16W	R205	1-216-839-11	METAL CHIP	33K 5% 1/16W
R5	1-216-819-11	METAL CHIP	680 5% 1/16W	R251	1-216-809-11	METAL CHIP	100 5% 1/16W
R6	1-216-815-11	METAL CHIP	330 5% 1/16W	R301	1-216-837-11	METAL CHIP	22K 5% 1/16W
R7	1-216-819-11	METAL CHIP	680 5% 1/16W	R302	1-216-825-11	METAL CHIP	2.2K 5% 1/16W
R8	1-216-821-11	METAL CHIP	1K 5% 1/16W	R303	1-216-809-11	METAL CHIP	100 5% 1/16W
R10	1-216-814-11	METAL CHIP	270 5% 1/16W	R304	1-216-809-11	METAL CHIP	100 5% 1/16W
R12	1-216-833-11	METAL CHIP	10K 5% 1/16W	R305	1-216-831-11	METAL CHIP	6.8K 5% 1/16W
R13	1-216-827-11	METAL CHIP	3.3K 5% 1/16W	R306	1-216-833-11	METAL CHIP	10K 5% 1/16W
R14	1-216-814-11	METAL CHIP	270 5% 1/16W	R307	1-216-832-11	METAL CHIP	8.2K 5% 1/16W
R15	1-216-843-11	METAL CHIP	68K 5% 1/16W	R308	1-216-829-11	METAL CHIP	4.7K 5% 1/16W
R16	1-216-837-11	METAL CHIP	22K 5% 1/16W	R309	1-216-837-11	METAL CHIP	22K 5% 1/16W
R17	1-216-839-11	METAL CHIP	33K 5% 1/16W	R311	1-216-857-11	METAL CHIP	1M 5% 1/16W
R18	1-216-827-11	METAL CHIP	3.3K 5% 1/16W	R312	1-218-745-11	RES-CHIP	160K 5% 1/16W
R19	1-216-833-11	METAL CHIP	10K 5% 1/16W	R313	1-216-845-11	METAL CHIP	100K 5% 1/16W
R20	1-216-827-11	METAL CHIP	3.3K 5% 1/16W	R315	1-216-833-11	METAL CHIP	10K 5% 1/16W
R21	1-216-821-11	METAL CHIP	1K 5% 1/16W	R316	1-216-839-11	METAL CHIP	33K 5% 1/16W
R22	1-216-825-11	METAL CHIP	2.2K 5% 1/16W	R317	1-216-833-11	METAL CHIP	10K 5% 1/16W
R23	1-216-829-11	METAL CHIP	4.7K 5% 1/16W	R318	1-216-833-11	METAL CHIP	10K 5% 1/16W
R24	1-216-821-11	METAL CHIP	1K 5% 1/16W	R319	1-216-852-11	METAL CHIP	390K 5% 1/16W
R25	1-216-809-11	METAL CHIP	100 5% 1/16W	R320	1-216-822-11	METAL CHIP	1.2K 5% 1/16W
R26	1-216-825-11	METAL CHIP	2.2K 5% 1/16W	R321	1-216-829-11	METAL CHIP	4.7K 5% 1/16W
R27	1-216-829-11	METAL CHIP	4.7K 5% 1/16W	R331	1-216-846-11	METAL CHIP	120K 5% 1/16W
R28	1-216-849-11	METAL CHIP	220K 5% 1/16W	R332	1-216-809-11	METAL CHIP	100 5% 1/16W
R29	1-216-849-11	METAL CHIP	220K 5% 1/16W	R333	1-216-830-11	METAL CHIP	5.6K 5% 1/16W
R30	1-216-827-11	METAL CHIP	3.3K 5% 1/16W	R334	1-218-332-11	RES-CHIP	130K 5% 1/16W
				R335	1-216-813-11	METAL CHIP	220 5% 1/16W

HCD-VP700

MAIN

Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description			Remarks
R336	1-216-846-11	METAL CHIP	120K	5%	1/16W	R402	1-216-809-11	METAL CHIP	100	5%	1/16W
R337	1-216-813-11	METAL CHIP	220	5%	1/16W	R403	1-216-809-11	METAL CHIP	100	5%	1/16W
R338	1-216-837-11	METAL CHIP	22K	5%	1/16W	R404	1-216-809-11	METAL CHIP	100	5%	1/16W
R339	1-216-834-11	METAL CHIP	12K	5%	1/16W	R405	1-216-809-11	METAL CHIP	100	5%	1/16W
R340	1-216-850-11	METAL CHIP	270K	5%	1/16W	R406	1-216-809-11	METAL CHIP	100	5%	1/16W
R341	1-216-813-11	METAL CHIP	220	5%	1/16W	R407	1-216-809-11	METAL CHIP	100	5%	1/16W
R342	1-216-834-11	METAL CHIP	12K	5%	1/16W	R409	1-216-833-11	METAL CHIP	10K	5%	1/16W
△ R343	1-219-787-11	FUSIBLE	5.6	5%	1/4W	R411	1-216-851-11	METAL CHIP	330K	5%	1/16W
△ R344	1-219-787-11	FUSIBLE	5.6	5%	1/4W	R413	1-216-864-11	METAL CHIP	0	5%	1/16W
R345	1-216-836-11	METAL CHIP	18K	5%	1/16W	R417	1-216-833-11	METAL CHIP	10K	5%	1/16W
R346	1-216-836-11	METAL CHIP	18K	5%	1/16W	R422	1-216-833-11	METAL CHIP	10K	5%	1/16W
R347	1-216-830-11	METAL CHIP	5.6K	5%	1/16W	R423	1-216-833-11	METAL CHIP	10K	5%	1/16W
R348	1-216-820-11	METAL CHIP	820	5%	1/16W	R429	1-216-817-11	METAL CHIP	470	5%	1/16W
R349	1-216-823-11	METAL CHIP	1.5K	5%	1/16W	R430	1-216-817-11	METAL CHIP	470	5%	1/16W
R351	1-216-837-11	METAL CHIP	22K	5%	1/16W	R431	1-216-841-11	METAL CHIP	47K	5%	1/16W
R352	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	R438	1-216-809-11	METAL CHIP	100	5%	1/16W
R353	1-216-809-11	METAL CHIP	100	5%	1/16W	R439	1-216-809-11	METAL CHIP	100	5%	1/16W
R354	1-216-809-11	METAL CHIP	100	5%	1/16W	R441	1-216-833-11	METAL CHIP	10K	5%	1/16W
R355	1-216-831-11	METAL CHIP	6.8K	5%	1/16W	R444	1-216-809-11	METAL CHIP	100	5%	1/16W
R356	1-216-833-11	METAL CHIP	10K	5%	1/16W	R445	1-216-809-11	METAL CHIP	100	5%	1/16W
R357	1-216-832-11	METAL CHIP	8.2K	5%	1/16W	R446	1-216-809-11	METAL CHIP	100	5%	1/16W
R358	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R447	1-216-809-11	METAL CHIP	100	5%	1/16W
R359	1-216-839-11	METAL CHIP	33K	5%	1/16W	R448	1-216-809-11	METAL CHIP	100	5%	1/16W
R360	1-216-821-11	METAL CHIP	1K	5%	1/16W	R449	1-216-809-11	METAL CHIP	100	5%	1/16W
R361	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	R451	1-216-833-11	METAL CHIP	10K	5%	1/16W
R362	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	R453	1-216-833-11	METAL CHIP	10K	5%	1/16W
R363	1-216-821-11	METAL CHIP	1K	5%	1/16W	R456	1-216-809-11	METAL CHIP	100	5%	1/16W
R364	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	R457	1-216-809-11	METAL CHIP	100	5%	1/16W
R365	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	R468	1-216-833-11	METAL CHIP	10K	5%	1/16W
R366	1-216-841-11	METAL CHIP	47K	5%	1/16W	R469	1-216-833-11	METAL CHIP	10K	5%	1/16W
R367	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	R470	1-216-809-11	METAL CHIP	100	5%	1/16W
R368	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	R471	1-216-809-11	METAL CHIP	100	5%	1/16W
R369	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	R472	1-216-809-11	METAL CHIP	100	5%	1/16W
R371	1-216-841-11	METAL CHIP	47K	5%	1/16W	R473	1-216-809-11	METAL CHIP	100	5%	1/16W
R372	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R474	1-216-809-11	METAL CHIP	100	5%	1/16W
R373	1-216-821-11	METAL CHIP	1K	5%	1/16W	R475	1-216-809-11	METAL CHIP	100	5%	1/16W
R374	1-216-841-11	METAL CHIP	47K	5%	1/16W	R476	1-216-809-11	METAL CHIP	100	5%	1/16W
R375	1-218-296-11	RES-CHIP	75K	5%	1/16W	R477	1-216-809-11	METAL CHIP	100	5%	1/16W
R376	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R478	1-216-809-11	METAL CHIP	100	5%	1/16W
R377	1-216-841-11	METAL CHIP	47K	5%	1/16W	R479	1-216-809-11	METAL CHIP	100	5%	1/16W
R378	1-218-296-11	RES-CHIP	75K	5%	1/16W	R480	1-216-809-11	METAL CHIP	100	5%	1/16W
R381	1-216-846-11	METAL CHIP	120K	5%	1/16W	R481	1-216-809-11	METAL CHIP	100	5%	1/16W
R382	1-216-809-11	METAL CHIP	100	5%	1/16W	R482	1-216-809-11	METAL CHIP	100	5%	1/16W
R383	1-216-830-11	METAL CHIP	5.6K	5%	1/16W	R483	1-216-809-11	METAL CHIP	100	5%	1/16W
R384	1-218-332-11	RES-CHIP	130K	5%	1/16W	R484	1-216-809-11	METAL CHIP	100	5%	1/16W
R385	1-216-864-11	METAL CHIP	0	5%	1/16W	R486	1-216-809-11	METAL CHIP	100	5%	1/16W
R386	1-216-846-11	METAL CHIP	120K	5%	1/16W	R487	1-216-833-11	METAL CHIP	10K	5%	1/16W
R387	1-216-813-11	METAL CHIP	220	5%	1/16W	R488	1-216-833-11	METAL CHIP	10K	5%	1/16W
R388	1-216-837-11	METAL CHIP	22K	5%	1/16W	R489	1-216-833-11	METAL CHIP	10K	5%	1/16W
R389	1-216-834-11	METAL CHIP	12K	5%	1/16W	R490	1-216-833-11	METAL CHIP	10K	5%	1/16W
R390	1-216-850-11	METAL CHIP	270K	5%	1/16W	R491	1-216-833-11	METAL CHIP	10K	5%	1/16W
R391	1-216-864-11	METAL CHIP	0	5%	1/16W	R492	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R392	1-216-834-11	METAL CHIP	12K	5%	1/16W	R496	1-216-833-11	METAL CHIP	10K	5%	1/16W
R393	1-216-837-11	METAL CHIP	22K	5%	1/16W	R497	1-216-833-11	METAL CHIP	10K	5%	1/16W
R394	1-216-813-11	METAL CHIP	220	5%	1/16W	R498	1-216-811-11	METAL CHIP	150	5%	1/16W
R396	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R501	1-216-821-11	METAL CHIP	1K	5%	1/16W
R397	1-216-820-11	METAL CHIP	820	5%	1/16W	R502	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R398	1-216-823-11	METAL CHIP	1.5K	5%	1/16W	R503	1-216-841-11	METAL CHIP	47K	5%	1/16W
R400	1-216-829-11	METAL CHIP	4.7K	5%	1/16W						
R401	1-216-809-11	METAL CHIP	100	5%	1/16W						

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

85

HCD-VP700

PANEL

Ref. No.	Part No.	Description				Remarks	Ref. No.	Part No.	Description				Remarks
C1130	1-162-282-31	CERAMIC	100PF	10%	50V		D1110	8-719-050-84	DIODE	RB441Q-40T-77			
C1131	1-162-282-31	CERAMIC	100PF	10%	50V		D1111	8-719-057-97	DIODE	SEL5923A-TP15 (EFFECT)			
C1132	1-162-282-31	CERAMIC	100PF	10%	50V		D1112	8-719-057-97	DIODE	SEL5923A-TP15 (GROOVE)			
C1133	1-126-796-11	ELECT	22uF	20%	50V		D1113	8-719-063-93	DIODE	SLR325VC-N-T32 (REC PAUSE/START)			
C1134	1-126-796-11	ELECT	22uF	20%	50V		D1121	8-719-911-19	DIODE	1SS119-25			
C1135	1-126-513-11	ELECT	47uF	20%	6.3V		D1220	8-719-109-85	DIODE	RD5.1ESB2			
C1137	1-162-294-31	CERAMIC	0.001uF	10%	50V				< FERRITE BEAD >				
C1138	1-162-306-11	CERAMIC	0.01uF	30%	16V								
C1139	1-126-163-11	ELECT	4.7uF	20%	50V		FB1101	1-412-473-21	INDUCTOR	0UH			
C1140	1-164-159-11	CERAMIC	0.1uF		50V				<FLUORESCENT INDICATOR TUBE>				
C1141	1-162-282-31	CERAMIC	100PF	10%	50V								
C1142	1-162-282-31	CERAMIC	100PF	10%	50V		FL1101	1-518-722-11	INDICATOR TUBE, FLUORESCENT				
C1143	1-162-282-31	CERAMIC	100PF	10%	50V				< IC >				
C1201	1-115-868-11	ELECT	0.22uF	20%	50V								
C1202	1-162-306-11	CERAMIC	0.01uF	30%	16V								
C1203	1-162-306-11	CERAMIC	0.01uF	30%	16V		IC1101	6-800-320-01	IC	MB90M407APF-G-105-BND			
C1204	1-115-868-11	ELECT	0.22uF	20%	50V		IC1102	8-759-827-69	IC	NJL63H400A-1			
							IC1201	8-759-636-55	IC	M5218AFP-TE1			
							IC1220	8-759-496-41	IC	M65850FP-E1			
C1205	1-162-294-31	CERAMIC	0.001uF	10%	50V				< JACK >				
C1206	1-162-215-31	CERAMIC	47PF	5%	50V								
C1207	1-162-286-31	CERAMIC	220PF	10%	50V								
C1208	1-115-867-11	ELECT	0.1uF	20%	50V								
C1209	1-115-872-11	ELECT	2.2uF	20%	50V		J1101	1-691-293-21	JACK (PHONES)				
							J1201	1-815-603-11	JACK (MIC 1)				
C1210	1-162-284-31	CERAMIC	150PF	10%	50V		J1202	1-815-603-11	JACK (MIC 2)				
C1211	1-115-872-11	ELECT	2.2uF	20%	50V				< TRANSISTOR >				
C1212	1-124-584-00	ELECT	100uF	20%	10V								
C1213	1-126-157-11	ELECT	10uF	20%	16V								
C1214	1-126-157-11	ELECT	10uF	20%	16V		Q1101	8-729-900-80	TRANSISTOR	DTC114ES			
							Q1102	8-729-900-80	TRANSISTOR	DTC114ES			
C1215	1-162-215-31	CERAMIC	47PF	5%	50V		Q1103	8-729-900-80	TRANSISTOR	DTC114ES			
C1216	1-126-791-11	ELECT	10uF	20%	16V		Q1104	8-729-900-80	TRANSISTOR	DTC114ES			
C1220	1-115-872-11	ELECT	2.2uF	20%	50V		Q1105	8-729-900-80	TRANSISTOR	DTC114ES			
C1221	1-161-494-00	CERAMIC	0.022uF		25V								
C1222	1-162-305-11	CERAMIC	0.0068uF	30%	16V		Q1106	8-729-900-80	TRANSISTOR	DTC114ES			
							Q1107	8-729-900-80	TRANSISTOR	DTC114ES			
C1223	1-115-871-11	ELECT	1uF	20%	50V		Q1108	8-729-900-80	TRANSISTOR	DTC114ES			
C1224	1-126-785-11	ELECT	47uF	20%	10V		Q1109	8-729-422-57	TRANSISTOR	UN4111			
C1225	1-126-785-11	ELECT	47uF	20%	10V		Q1110	8-729-119-76	TRANSISTOR	2SA1175-HFE			
C1226	1-136-495-11	FILM	0.068uF	5%	50V								
C1227	1-162-294-31	CERAMIC	0.001uF	10%	50V		Q1111	8-729-900-80	TRANSISTOR	DTC114ES			
							Q1112	8-729-900-80	TRANSISTOR	DTC114ES			
C1228	1-136-167-00	FILM	0.15uF	5%	50V		Q1113	8-729-119-78	TRANSISTOR	2SC2785-HFE			
C1229	1-115-870-11	ELECT	0.47uF	20%	50V		Q1120	8-729-119-78	TRANSISTOR	2SC2785-HFE			
C1230	1-115-870-11	ELECT	0.47uF	20%	50V		Q1123	8-729-900-74	TRANSISTOR	DTC143TS			
C1231	1-136-495-11	FILM	0.068uF	5%	50V								
C1232	1-162-294-31	CERAMIC	0.001uF	10%	50V		Q1124	8-729-900-74	TRANSISTOR	DTC143TS			
							Q1201	8-729-119-78	TRANSISTOR	2SC2785-HFE			
C1233	1-162-305-11	CERAMIC	0.0068uF	30%	16V				< RESISTOR >				
C1234	1-115-871-11	ELECT	1uF	20%	50V								
C1241	1-162-294-31	CERAMIC	0.001uF	10%	50V								
C1242	1-162-294-31	CERAMIC	0.001uF	10%	50V		R1101	1-249-429-11	CARBON	10K	5%	1/4W	
C1250	1-164-159-11	CERAMIC	0.1uF		50V		R1102	1-249-429-11	CARBON	10K	5%	1/4W	
		< CONNECTOR >					R1103	1-249-429-11	CARBON	10K	5%	1/4W	
							R1104	1-249-429-11	CARBON	10K	5%	1/4W	
							R1105	1-249-429-11	CARBON	10K	5%	1/4W	
CN1101	1-793-767-11	CONNECTOR, BOARD TO BOARD 30P											
CN1108	1-784-726-11	CONNECTOR, FFC 4P					R1106	1-249-429-11	CARBON	10K	5%	1/4W	
		< DIODE >					R1107	1-247-807-31	CARBON	100	5%	1/4W	
							R1108	1-247-807-31	CARBON	100	5%	1/4W	
							R1109	1-249-429-11	CARBON	10K	5%	1/4W	
D1101	8-719-057-97	DIODE	SEL5923A-TP15 (GAME)				R1110	1-249-429-11	CARBON	10K	5%	1/4W	
D1102	8-719-057-97	DIODE	SEL5923A-TP15 (DIGITAL)										
D1103	8-719-057-97	DIODE	SEL5923A-TP15 (MD (VIDEO))				R1111	1-249-429-11	CARBON	10K	5%	1/4W	
D1104	8-719-071-41	DIODE	SELS5923C-TP15 (TAPE A/B)				R1112	1-249-410-11	CARBON	270	5%	1/4W	
D1105	8-719-071-41	DIODE	SELS5923C-TP15 (TUNER/BAND)				R1113	1-249-410-11	CARBON	270	5%	1/4W	
							R1114	1-249-410-11	CARBON	270	5%	1/4W	
D1106	8-719-071-41	DIODE	SELS5923C-TP15 (CD)				R1115	1-247-807-31	CARBON	100	5%	1/4W	
D1107	8-719-072-76	DIODE	SEL5E23C-TP15										
			(MULTI CHANNEL DECORDING)				R1116	1-247-807-31	CARBON	100	5%	1/4W	
D1108	8-719-063-93	DIODE	SLR325VC-N-T32 (ENTER)										

PANEL

Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description			Remarks
R1117	1-247-807-31	CARBON	100	5%	1/4W	R1190	1-249-441-11	CARBON	100K	5%	1/4W
R1118	1-247-807-31	CARBON	100	5%	1/4W	R1191	1-260-083-11	CARBON	47	5%	1/2W
R1119	1-249-417-11	CARBON	1K	5%	1/4W F	R1192	1-260-083-11	CARBON	47	5%	1/2W
R1120	1-249-441-11	CARBON	100K	5%	1/4W	R1197	1-249-429-11	CARBON	10K	5%	1/4W
R1121	1-249-409-11	CARBON	220	5%	1/4W F	R1198	1-249-441-11	CARBON	100K	5%	1/4W
R1122	1-249-409-11	CARBON	220	5%	1/4W F	R1199	1-249-406-11	CARBON	120	5%	1/4W F
R1123	1-249-409-11	CARBON	220	5%	1/4W F	R1201	1-249-417-11	CARBON	1K	5%	1/4W F
R1124	1-249-409-11	CARBON	220	5%	1/4W F	R1202	1-249-429-11	CARBON	10K	5%	1/4W
R1125	1-249-441-11	CARBON	100K	5%	1/4W	R1203	1-249-429-11	CARBON	10K	5%	1/4W
R1126	1-249-441-11	CARBON	100K	5%	1/4W	R1204	1-249-417-11	CARBON	1K	5%	1/4W F
R1127	1-249-441-11	CARBON	100K	5%	1/4W	R1205	1-249-441-11	CARBON	100K	5%	1/4W
R1128	1-249-441-11	CARBON	100K	5%	1/4W	R1206	1-249-417-11	CARBON	1K	5%	1/4W F
R1129	1-249-441-11	CARBON	100K	5%	1/4W	R1207	1-249-437-11	CARBON	47K	5%	1/4W
R1130	1-249-407-11	CARBON	150	5%	1/4W F	R1208	1-247-807-31	CARBON	100	5%	1/4W
R1131	1-249-412-11	CARBON	390	5%	1/4W F	R1209	1-249-429-11	CARBON	10K	5%	1/4W
R1132	1-249-407-11	CARBON	150	5%	1/4W F	R1210	1-247-883-00	CARBON	150K	5%	1/4W
R1133	1-249-407-11	CARBON	150	5%	1/4W F	R1211	1-247-807-31	CARBON	100	5%	1/4W
R1134	1-249-429-11	CARBON	10K	5%	1/4W	R1212	1-249-417-11	CARBON	1K	5%	1/4W F
R1135	1-249-407-11	CARBON	150	5%	1/4W F	R1213	1-249-429-11	CARBON	10K	5%	1/4W
R1136	1-249-407-11	CARBON	150	5%	1/4W F	R1214	1-249-431-11	CARBON	15K	5%	1/4W
R1137	1-249-407-11	CARBON	150	5%	1/4W F	R1215	1-249-441-11	CARBON	100K	5%	1/4W
R1143	1-249-441-11	CARBON	100K	5%	1/4W	R1216	1-249-431-11	CARBON	15K	5%	1/4W
R1144	1-249-441-11	CARBON	100K	5%	1/4W	R1217	1-249-431-11	CARBON	15K	5%	1/4W
R1145	1-249-441-11	CARBON	100K	5%	1/4W	R1218	1-249-433-11	CARBON	22K	5%	1/4W
R1146	1-249-441-11	CARBON	100K	5%	1/4W	R1219	1-249-433-11	CARBON	22K	5%	1/4W
R1147	1-249-441-11	CARBON	100K	5%	1/4W	R1220	1-249-433-11	CARBON	22K	5%	1/4W
R1148	1-249-441-11	CARBON	100K	5%	1/4W	R1221	1-249-410-11	CARBON	270	5%	1/4W F
R1149	1-249-441-11	CARBON	100K	5%	1/4W	R1222	1-247-881-00	CARBON	120K	5%	1/4W
R1155	1-249-413-11	CARBON	470	5%	1/4W F	R1223	1-249-433-11	CARBON	22K	5%	1/4W
R1156	1-249-414-11	CARBON	560	5%	1/4W F	R1224	1-249-437-11	CARBON	47K	5%	1/4W
R1157	1-249-416-11	CARBON	820	5%	1/4W F	R1225	1-249-433-11	CARBON	22K	5%	1/4W
R1158	1-249-417-11	CARBON	1K	5%	1/4W F	R1226	1-249-433-11	CARBON	22K	5%	1/4W
R1159	1-249-418-11	CARBON	1.2K	5%	1/4W F	R1280	1-249-417-11	CARBON	1K	5%	1/4W F
R1160	1-249-419-11	CARBON	1.5K	5%	1/4W F	R1281	1-249-417-11	CARBON	1K	5%	1/4W F
R1161	1-249-421-11	CARBON	2.2K	5%	1/4W F	R1282	1-249-417-11	CARBON	1K	5%	1/4W F
R1162	1-249-422-11	CARBON	2.7K	5%	1/4W F	R1283	1-249-417-11	CARBON	1K	5%	1/4W F
R1163	1-249-424-11	CARBON	3.9K	5%	1/4W F	R1285	1-249-417-11	CARBON	1K	5%	1/4W F
R1164	1-249-426-11	CARBON	5.6K	5%	1/4W	R1286	1-249-417-11	CARBON	1K	5%	1/4W F
R1165	1-249-428-11	CARBON	8.2K	5%	1/4W F	R1287	1-249-417-11	CARBON	1K	5%	1/4W F
R1166	1-249-431-11	CARBON	15K	5%	1/4W	R1288	1-249-417-11	CARBON	1K	5%	1/4W F
R1167	1-249-413-11	CARBON	470	5%	1/4W F	R1289	1-249-417-11	CARBON	1K	5%	1/4W F
R1168	1-249-414-11	CARBON	560	5%	1/4W F	R1290	1-249-417-11	CARBON	1K	5%	1/4W F
R1169	1-249-416-11	CARBON	820	5%	1/4W F	R1291	1-249-415-11	CARBON	680	5%	1/4W F
R1170	1-249-417-11	CARBON	1K	5%	1/4W F	R1292	1-249-419-11	CARBON	1.5K	5%	1/4W F
R1171	1-249-418-11	CARBON	1.2K	5%	1/4W F	R1293	1-249-419-11	CARBON	1.5K	5%	1/4W F
R1172	1-249-413-11	CARBON	470	5%	1/4W F	R1294	1-249-419-11	CARBON	1.5K	5%	1/4W F
R1173	1-249-414-11	CARBON	560	5%	1/4W F	R1295	1-249-419-11	CARBON	1.5K	5%	1/4W F
R1174	1-249-419-11	CARBON	1.5K	5%	1/4W F	R1296	1-249-419-11	CARBON	1.5K	5%	1/4W F
R1175	1-249-416-11	CARBON	820	5%	1/4W F	R1297	1-249-415-11	CARBON	680	5%	1/4W F
R1176	1-249-417-11	CARBON	1K	5%	1/4W F	< VARIABLE RESISTOR >					
R1177	1-249-418-11	CARBON	1.2K	5%	1/4W F	RV1201	1-227-309-11	RES, VAR, CARBON 50K (MIC LEVEL)			
R1178	1-249-419-11	CARBON	1.5K	5%	1/4W F	RV1202	1-227-309-11	RES, VAR, CARBON 50K (ECHO LEVEL)			
R1179	1-249-421-11	CARBON	2.2K	5%	1/4W F	< SWITCH >					
R1180	1-249-422-11	CARBON	2.7K	5%	1/4W F	S1101	1-418-725-11	ENCODER, ROTARY (12 TYPE) (VOLUME)			
R1181	1-249-424-11	CARBON	3.9K	5%	1/4W F	S1116	1-762-875-21	SWITCH, KEYBOARD (◀▶)			
R1182	1-249-426-11	CARBON	5.6K	5%	1/4W	S1117	1-762-875-21	SWITCH, KEYBOARD (■)			
R1183	1-249-428-11	CARBON	8.2K	5%	1/4W F	S1118	1-762-875-21	SWITCH, KEYBOARD (▣)			
R1185	1-249-401-11	CARBON	47	5%	1/4W F	S1119	1-762-875-21	SWITCH, KEYBOARD (▶▶)			
R1186	1-249-401-11	CARBON	47	5%	1/4W F	S1120	1-762-875-21	SWITCH, KEYBOARD (◀▶▶)			
R1189	1-249-441-11	CARBON	100K	5%	1/4W						

HCD-VP700

PANEL	SUB TRANS	SURROUND AMP
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Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
S1121	1-762-875-21	SWITCH, KEYBOARD (▶▶)				< IC >	
S1122	1-762-875-21	SWITCH, KEYBOARD (◀◀)					
S1123	1-762-875-21	SWITCH, KEYBOARD (GAME)					
S1124	1-762-875-21	SWITCH, KEYBOARD (MD (VIDEO))		IC901	8-759-158-62	IC TA78057S	
S1125	1-762-875-21	SWITCH, KEYBOARD (DIGITAL)				< TRANSISTOR >	
S1126	1-762-875-21	SWITCH, KEYBOARD (TAPE A/B)					
S1127	1-762-875-21	SWITCH, KEYBOARD (TUNER/BAND)		Q901	8-729-119-78	TRANSISTOR 2SC2785-HFE	
S1128	1-762-875-21	SWITCH, KEYBOARD (CD)				< RESISTOR >	
S1129	1-762-875-21	SWITCH, KEYBOARD (EDIT)					
S1130	1-762-875-21	SWITCH, KEYBOARD (REPEAT)		R902	1-249-429-11	CARBON 10K 5% 1/4W	
S1131	1-762-875-21	SWITCH, KEYBOARD (PLAY MODE)		R903	1-249-429-11	CARBON 10K 5% 1/4W	
S1132	1-762-875-21	SWITCH, KEYBOARD (TIMER SELECT)				< RELAY >	
S1133	1-762-875-21	SWITCH, KEYBOARD (CLOCK/TIMER SET)					
S1134	1-762-875-21	SWITCH, KEYBOARD (SPECTRUM)		△RY901	1-755-276-11	RELAY, POWER	
S1135	1-762-875-21	SWITCH, KEYBOARD (DISPLAY)				< SWITCH >	
S1136	1-762-875-21	SWITCH, KEYBOARD (TOOL MODE)					
S1137	1-762-875-21	SWITCH, KEYBOARD (ENTER)		△S901	1-786-055-21	SELECTOR, VOLTAGE (VOLTAGE SELECTOR) (SP,MY)	
S1138	1-762-875-21	SWITCH, KEYBOARD (MOVIE MODE)				< TRANSFORMER >	
S1139	1-762-875-21	SWITCH, KEYBOARD (MUSIC MODE)					
S1140	1-762-875-21	SWITCH, KEYBOARD (DSP EDIT)		△T901	1-435-825-11	TRANSFORMER, POWER	
S1141	1-762-875-21	SWITCH, KEYBOARD (GAME MODE)				*****	
S1142	1-762-875-21	SWITCH, KEYBOARD (P.FILE)					
S1143	1-762-875-21	SWITCH, KEYBOARD (GROOVE)					
S1144	1-762-875-21	SWITCH, KEYBOARD (EFFECT)					
S1145	1-762-875-21	SWITCH, KEYBOARD (2CH/MULTI)			1-680-188-11	SURROUND AMP BOARD	
S1146	1-762-875-21	SWITCH, KEYBOARD (REC PAUSE/START)				*****	
S1147	1-762-875-21	SWITCH, KEYBOARD (CD SYNC HI-DUB)					
S1148	1-762-875-21	SWITCH, KEYBOARD (PICTURE EFFECT)			7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
		< VIBRATOR >				< CAPACITOR >	
X1101	1-795-054-51	VIBRATOR, CERAMIC (4MHz)		C931	1-126-964-11	ELECT 10uF 20% 50V	
		*****		C932	1-126-917-11	ELECT 3300uF 20% 6.3V	
				C933	1-126-964-11	ELECT 10uF 20% 50V	
				C934	1-126-935-11	ELECT 470uF 20% 10V	
				C937	1-126-964-11	ELECT 10uF 20% 50V	
	1-680-190-11	SUB TRANS BOARD		C938	1-126-935-11	ELECT 470uF 20% 10V	
		*****		C1071	1-136-153-00	FILM 0.01uF 5% 50V	
				C1072	1-136-153-00	FILM 0.01uF 5% 50V	
	1-533-217-41	HOLDER, FUSE		C1073	1-137-844-11	ELECT 2200uF 20% 42V	
		< CAPASITOR >		C1074	1-137-844-11	ELECT 2200uF 20% 42V	
△C901	1-113-925-11	CERAMIC 0.01uF 20% 250V				< DIODE >	
C902	1-126-768-11	ELECT 2200uF 20% 16V		D932	8-719-024-99	DIODE 11ES2-NTA2B	
C903	1-126-933-11	ELECT 100uF 20% 16V		D933	8-719-050-84	DIODE RB441Q-40T-77	
C904	1-164-159-11	CERAMIC 0.1uF 50V		D1071	8-719-510-68	DIODE D5SBA204101	
		< CONNECTOR >				< IC >	
CN901	1-564-321-00	PIN, CONNECTOR 2P					
CN902	1-564-321-21	PIN, CONNECTOR 2P (TH)		IC931	8-759-039-69	IC UPC7805AHF	
CN902	1-568-106-11	PIN, CONNECTOR 4P (SP,MY)		IC932	8-759-039-69	IC UPC7805AHF	
CN903	1-785-329-11	PIN, CONNECTOR (LIGHT ANGLE)3P		IC934	8-759-445-59	IC BA033T	
		< DIODE >				< TRANSISTOR >	
D901	8-719-911-19	DIODE 1SS119-25					
D902	8-719-024-99	DIODE 11ES2-NTA2B		Q931	8-729-030-19	TRANSISTOR 2SB1640	
D903	8-719-024-99	DIODE 11ES2-NTA2B		Q932	8-729-900-80	TRANSISTOR DTC114ES	
D904	8-719-024-99	DIODE 11ES2-NTA2B				< RESISTOR >	
D905	8-719-024-99	DIODE 11ES2-NTA2B					
		< FUSE >		R931	1-249-422-11	CARBON 2.7K 5% 1/4W F	
△F911	1-533-470-11	FUSE, GLASS TUBE (DIA. 5) 3.15A/250V(SP,MY)		R932	1-249-422-11	CARBON 2.7K 5% 1/4W F	
△F912	1-533-471-11	FUSE, GLASS TUBE (DIA. 5) 4A/250V (SP,MY)					
△F913	1-533-471-11	FUSE, GLASS TUBE (DIA. 5) 4A/250V (TH)					
△F913	1-533-473-11	FUSE, GLASS TUBE (DIA. 5) 6.3A/250V(SP,MY)					

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

SURROUND AMP

TRANS

VIDEO

Ref. No.	Part No.	Description	Remarks
R933	1-249-422-11	CARBON 2.7K 5%	1/4W F
R934	1-249-429-11	CARBON 10K 5%	1/4W
R1071	1-249-441-11	CARBON 100K 5%	1/4W
R1072	1-249-441-11	CARBON 100K 5%	1/4W

	1-680-189-11	TRANS BOARD	*****
	1-533-217-41	HOLDER, FUSE	
		< CAPACITOR >	
C911	1-128-576-11	ELECT 100uF 20%	63V
C912	1-126-960-11	ELECT 1uF 20%	50V
C913	1-126-968-11	ELECT 100uF 20%	50V
C915	1-164-159-11	CERAMIC 0.1uF	50V
		< CONNECTOR >	
* CN913	1-564-518-11	PLUG, CONNECTOR 3P	
* CN914	1-564-525-11	PLUG, CONNECTOR 10P	
* CN915	1-564-519-11	PLUG, CONNECTOR 4P	
		< DIODE >	
D911	8-719-024-99	DIODE 11ES2-NTA2B	
D912	8-719-983-88	DIODE MTZJ-T-72-33C	
D913	8-719-118-56	DIODE RD4.7F-T7B1	
		< FUSE >	
△ F916	1-533-473-11	FUSE, GLASS TUBE (DIA. 5) 6.3A/250V	
△ F917	1-533-473-11	FUSE, GLASS TUBE (DIA. 5) 6.3A/250V	
△ F918	1-533-473-11	FUSE, GLASS TUBE (DIA. 5) 6.3A/250V	
△ F919	1-533-472-11	FUSE, GLASS TUBE (DIA. 5) 5A/250V	
		< TRANSISTOR >	
Q971	8-729-048-52	TRANSISTOR 2SA1932(TP)	
		< RESISTOR >	
△ R911	1-217-637-00	FUSIBLE 1 5%	1/4W
R913	1-249-429-11	CARBON 10K 5%	1/4W
R914	1-249-429-11	CARBON 10K 5%	1/4W
R915	1-247-807-31	CARBON 100 5%	1/4W
R916	1-247-807-31	CARBON 100 5%	1/4W
		< TRANSFORMER >	
△ T911	1-435-814-11	TRANSFORMER, POWER	

	A-4725-612-A	VIDEO BOARD, COMPLETE	*****
		< CAPACITOR >	
C101	1-124-778-00	ELECT CHIP 22uF 20%	6.3V
C102	1-164-670-11	CERAMIC CHIP 1200PF 5%	16V
C103	1-162-968-11	CERAMIC CHIP 0.0047uF 10%	50V
C201	1-124-778-00	ELECT CHIP 22uF 20%	6.3V
C202	1-164-670-11	CERAMIC CHIP 1200PF 5%	16V
C203	1-162-968-11	CERAMIC CHIP 0.0047uF 10%	50V
C304	1-164-388-11	CERAMIC CHIP 270PF 5%	50V
C305	1-162-919-11	CERAMIC CHIP 22PF 5%	50V
C306	1-164-388-11	CERAMIC CHIP 270PF 5%	50V
C307	1-162-919-11	CERAMIC CHIP 22PF 5%	50V

Ref. No.	Part No.	Description	Remarks
C308	1-162-959-11	CERAMIC CHIP 330PF 5%	50V
C309	1-162-959-11	CERAMIC CHIP 330PF 5%	50V
C310	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C311	1-124-778-00	ELECT CHIP 22uF 20%	6.3V
C312	1-162-968-11	CERAMIC CHIP 0.0047uF 10%	50V
C313	1-164-816-11	CERAMIC CHIP 220PF 2%	50V
C314	1-162-919-11	CERAMIC CHIP 22PF 5%	50V
C315	1-164-217-11	CERAMIC CHIP 150PF 5%	50V
C316	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C317	1-126-193-11	ELECT 1uF 20%	50V
C318	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C319	1-126-206-11	ELECT CHIP 100uF 20%	6.3V
C320	1-126-206-11	ELECT CHIP 100uF 20%	6.3V
C321	1-126-206-11	ELECT CHIP 100uF 20%	6.3V
C322	1-126-206-11	ELECT CHIP 100uF 20%	6.3V
C323	1-126-206-11	ELECT CHIP 100uF 20%	6.3V
C324	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C325	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C401	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C402	1-124-778-00	ELECT CHIP 22uF 20%	6.3V
C504	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C505	1-126-206-11	ELECT CHIP 100uF 20%	6.3V
C506	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C507	1-126-206-11	ELECT CHIP 100uF 20%	6.3V
C508	1-126-206-11	ELECT CHIP 100uF 20%	6.3V
C509	1-115-416-11	CERAMIC CHIP 0.001uF 5%	25V
C510	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C524	1-125-891-11	CERAMIC CHIP 0.47uF 10%	10V
C526	1-162-968-11	CERAMIC CHIP 0.0047uF 10%	50V
C528	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C531	1-126-206-11	ELECT CHIP 100uF 20%	6.3V
C532	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C535	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C536	1-126-193-11	ELECT 1uF 20%	50V
C537	1-126-206-11	ELECT CHIP 100uF 20%	6.3V
C539	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C540	1-126-206-11	ELECT CHIP 100uF 20%	6.3V
C541	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C542	1-126-206-11	ELECT CHIP 100uF 20%	6.3V
C543	1-126-206-11	ELECT CHIP 100uF 20%	6.3V
C544	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C545	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C546	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C547	1-126-193-11	ELECT 1uF 20%	50V
C548	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C549	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C550	1-115-416-11	CERAMIC CHIP 0.001uF 5%	25V
C551	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C552	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C553	1-126-206-11	ELECT CHIP 100uF 20%	6.3V
C555	1-124-778-00	ELECT CHIP 22uF 20%	6.3V
C556	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C559	1-126-206-11	ELECT CHIP 100uF 20%	6.3V
C561	1-162-911-11	CERAMIC CHIP 6PF 0.50PF	50V
C563	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C564	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C565	1-126-206-11	ELECT CHIP 100uF 20%	6.3V
C566	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C568	1-126-206-11	ELECT CHIP 100uF 20%	6.3V

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HCD-VP700

VIDEO

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
C569	1-126-206-11	ELECT CHIP	100uF 20% 6.3V	< TRANSISTOR >			
C570	1-126-206-11	ELECT CHIP	100uF 20% 6.3V	Q301	8-729-900-53	TRANSISTOR DTC114EKA-T146	
C571	1-128-065-11	ELECT CHIP	68uF 20% 10V	Q501	8-729-900-53	TRANSISTOR DTC114EKA-T146	
C574	1-162-919-11	CERAMIC CHIP	22PF 5% 50V	Q502	8-729-900-53	TRANSISTOR DTC114EKA-T146	
C576	1-162-919-11	CERAMIC CHIP	22PF 5% 50V	Q531	8-729-140-75	TRANSISTOR 2SD999-T1-CLCK	
C577	1-162-919-11	CERAMIC CHIP	22PF 5% 50V	< RESISTOR >			
C579	1-162-923-11	CERAMIC CHIP	47PF 5% 50V	R101	1-216-833-11	METAL CHIP 10K 5% 1/16W	
C581	1-164-156-11	CERAMIC CHIP	0.1uF 25V	R102	1-218-851-11	METAL CHIP 1.5K 0.5% 1/16W	
< CONNECTOR >				R103	1-218-851-11	METAL CHIP 1.5K 0.5% 1/16W	
CN501	1-774-769-11	CONNECTOR, FFC/FPC 25P		R201	1-216-833-11	METAL CHIP 10K 5% 1/16W	
CN502	1-779-416-11	CONNECTOR, FFC(LIF(NON-ZIF))13P		R202	1-218-851-11	METAL CHIP 1.5K 0.5% 1/16W	
CN503	1-774-766-21	CONNECTOR, FFC/FPC 11P		R203	1-218-851-11	METAL CHIP 1.5K 0.5% 1/16W	
< TRIMMER >				R301	1-216-833-11	METAL CHIP 10K 5% 1/16W	
CT503	1-141-539-11	CAP, ADJ 10PF (FREQUENCY)		R302	1-211-990-11	METAL CHIP 75 0.5% 1/16W	
< DIODE >				R303	1-211-990-11	METAL CHIP 75 0.5% 1/16W	
D501	8-719-056-77	DIODE UDZ-TE-17-3.9B		R304	1-216-809-11	METAL CHIP 100 5% 1/16W	
< IC >				R305	1-216-809-11	METAL CHIP 100 5% 1/16W	
IC101	8-759-701-40	IC NJM2100M(TE2)		R306	1-211-990-11	METAL CHIP 75 0.5% 1/16W	
IC302	8-759-662-94	IC NJM2255M(TE2)		R308	1-216-833-11	METAL CHIP 10K 5% 1/16W	
IC303	8-759-711-47	IC NJM2209M(TE2)		R309	1-216-833-11	METAL CHIP 10K 5% 1/16W	
IC304	8-759-662-95	IC BA7665FS-E2		R310	1-216-825-11	METAL CHIP 2.2K 5% 1/16W	
IC501	8-759-530-30	IC TC74VHCU04FT(EL)		R311	1-216-811-11	METAL CHIP 150 5% 1/16W	
IC502	6-800-399-01	IC M30622MGA-A59FP		R312	1-216-833-11	METAL CHIP 10K 5% 1/16W	
IC504	8-759-530-30	IC TC74VHCU04FT(EL)		R313	1-216-833-11	METAL CHIP 10K 5% 1/16W	
IC505	8-759-535-48	IC CL680T-D1		R314	1-216-826-11	METAL CHIP 2.7K 5% 1/16W	
IC507	8-759-342-01	IC MSM514260E-60JS-7R		R315	1-218-285-11	RES-CHIP 75 5% 1/16W	
IC509	8-759-535-62	IC PCM1727E-2/T2		R316	1-218-285-11	RES-CHIP 75 5% 1/16W	
IC510	6-800-133-01	IC HT23C020-H001S		R317	1-218-285-11	RES-CHIP 75 5% 1/16W	
< JACK >				R319	1-211-990-11	METAL CHIP 75 0.5% 1/16W	
J301	1-537-943-11	TERMINAL, S (S VIDEO OUT)		R403	1-216-825-11	METAL CHIP 2.2K 5% 1/16W	
J302	1-774-227-11	JACK, PIN 1P (VIDEO OUT)		R404	1-216-825-11	METAL CHIP 2.2K 5% 1/16W	
< JUMPER RESISTOR >				R501	1-216-809-11	METAL CHIP 100 5% 1/16W	
JW101	1-216-864-11	METAL CHIP	0 5% 1/16W	R502	1-216-809-11	METAL CHIP 100 5% 1/16W	
JW201	1-216-864-11	METAL CHIP	0 5% 1/16W	R503	1-216-809-11	METAL CHIP 100 5% 1/16W	
JW413	1-216-864-11	METAL CHIP	0 5% 1/16W	R504	1-216-809-11	METAL CHIP 100 5% 1/16W	
JW501	1-216-864-11	METAL CHIP	0 5% 1/16W	R505	1-216-809-11	METAL CHIP 100 5% 1/16W	
JW504	1-216-864-11	METAL CHIP	0 5% 1/16W	R506	1-216-809-11	METAL CHIP 100 5% 1/16W	
JW505	1-216-864-11	METAL CHIP	0 5% 1/16W	R507	1-216-833-11	METAL CHIP 10K 5% 1/16W	
JW506	1-216-864-11	METAL CHIP	0 5% 1/16W	R508	1-216-833-11	METAL CHIP 10K 5% 1/16W	
JW513	1-216-864-11	METAL CHIP	0 5% 1/16W	R511	1-216-833-11	METAL CHIP 10K 5% 1/16W	
< COIL >				R512	1-216-833-11	METAL CHIP 10K 5% 1/16W	
L301	1-410-372-21	INDUCTOR	1.8uH	R513	1-216-833-11	METAL CHIP 10K 5% 1/16W	
L302	1-410-372-21	INDUCTOR	1.8uH	R516	1-216-833-11	METAL CHIP 10K 5% 1/16W	
L303	1-410-658-31	INDUCTOR CHIP	220uH	R517	1-216-833-11	METAL CHIP 10K 5% 1/16W	
L504	1-216-296-11	SHORT	0	R518	1-216-833-11	METAL CHIP 10K 5% 1/16W	
L505	1-216-296-11	SHORT	0	R519	1-216-809-11	METAL CHIP 100 5% 1/16W	
L509	1-216-296-00	METAL CHIP	0 5% 1/8W	R520	1-216-825-11	METAL CHIP 2.2K 5% 1/16W	
L511	1-469-680-21	INDUCTOR	0uH	R521	1-216-833-11	METAL CHIP 10K 5% 1/16W	
L512	1-469-680-21	INDUCTOR	0uH	R523	1-216-803-11	METAL CHIP 33 5% 1/16W	
L513	1-469-680-21	INDUCTOR	0uH	R524	1-216-825-11	METAL CHIP 2.2K 5% 1/16W	
				R526	1-216-849-11	METAL CHIP 220K 5% 1/16W	
				R528	1-216-845-11	METAL CHIP 100K 5% 1/16W	
				R530	1-216-809-11	METAL CHIP 100 5% 1/16W	
				R531	1-216-809-11	METAL CHIP 100 5% 1/16W	
				R532	1-216-864-11	METAL CHIP 0 5% 1/16W	
				R533	1-216-864-11	METAL CHIP 0 5% 1/16W	
				R534	1-216-833-11	METAL CHIP 10K 5% 1/16W	
				R535	1-216-833-11	METAL CHIP 10K 5% 1/16W	
				R536	1-216-813-11	METAL CHIP 220 5% 1/16W	

Ref. No.	Part No.	Description	Quantity	Percentage	Remarks	Ref. No.	Part No.	Description	Remarks
R537	1-216-809-11	METAL CHIP	100	5%	1/16W	#6	7-685-872-09	SCREW +BVTT 3X8 (S)	
R538	1-216-833-11	METAL CHIP	10K	5%	1/16W	#7	7-623-921-01	RING, RETAINING, CAPSTAN	
R539	1-216-864-11	METAL CHIP	0	5%	1/16W	#8	7-628-254-05	SCREW +PS 2.6X5	
R540	1-216-864-11	METAL CHIP	0	5%	1/16W	#9	7-685-781-09	SCREW +PTT 2X4 (S)	
R542	1-218-847-11	METAL CHIP	1K	0.5%	1/16W	#10	7-627-853-28	SCREW, PRECISION +P 2X3 TYPE3	
R543	1-218-881-11	METAL CHIP	27K	0.5%	1/16W				
R544	1-218-855-11	METAL CHIP	2.2K	0.5%	1/16W				
R545	1-216-809-11	METAL CHIP	100	5%	1/16W				
R546	1-216-821-11	METAL CHIP	1K	5%	1/16W				
R548	1-216-821-11	METAL CHIP	1K	5%	1/16W				
R549	1-216-809-11	METAL CHIP	100	5%	1/16W				
R550	1-216-809-11	METAL CHIP	100	5%	1/16W				
R551	1-216-809-11	METAL CHIP	100	5%	1/16W				
R552	1-216-809-11	METAL CHIP	100	5%	1/16W				
R555	1-216-857-11	METAL CHIP	1M	5%	1/16W				
R556	1-216-809-11	METAL CHIP	100	5%	1/16W				
R557	1-216-809-11	METAL CHIP	100	5%	1/16W				
R560	1-218-849-11	METAL CHIP	1.2K	0.5%	1/16W				
R561	1-218-847-11	METAL CHIP	1K	0.5%	1/16W				
R562	1-216-833-11	METAL CHIP	10K	5%	1/16W				
R564	1-216-837-11	METAL CHIP	22K	5%	1/16W				
R577	1-216-837-11	METAL CHIP	22K	5%	1/16W				
R578	1-216-837-11	METAL CHIP	22K	5%	1/16W				
R579	1-216-833-11	METAL CHIP	10K	5%	1/16W				
R580	1-216-833-11	METAL CHIP	10K	5%	1/16W				
<VIBRATOR>									
X501	1-781-155-21	VIBRATOR, CERAMIC (10MHz)							
X503	1-767-519-11	VIBRATOR, CRYSTAL (27MHz)							

MISCELLANEOUS									

12	1-757-421-11	WIRE (FLAT TYPE) (25 CORE)							
68	1-796-001-11	TOUCH PAD							
102	1-773-042-11	WIRE (FLAT TYPE) (17 CORE)							
103	1-757-419-11	WIRE (FLAT TYPE) (21 CORE)							
104	1-757-420-11	WIRE (FLAT TYPE) (23 CORE)							
105	1-769-986-11	WIRE (FLAT TYPE) (13 CORE)							
△ 110	1-575-651-11	CORD, POWER (SP,MY)							
△ 110	1-791-901-11	CORD, POWER (TH)							
△ 111	1-569-008-21	ADAPTOR, CONVERSION (SP,MY)							
155	1-454-887-32	SOLENOID, PLUNGER							
161	X-3378-241-1	MOTOR ASSY							
209	X-3378-241-1	MOTOR ASSY							
259	1-791-983-11	WIRE (FLAT TYPE) (8 CORE)							
303	1-782-817-11	WIRE (FLAT TYPE) (16 CORE)							
FL1101	1-518-722-11	INDICATOR TUBE, FLUORESCENT							
M721	A-4672-826-A	MOTOR ASSY							
M961	1-763-072-11	FAN, DC							
△ T911	1-435-814-11	TRANSFORMER, POWER							

HARDWARE LIST									

#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S							
#2	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S							
#3	7-685-105-19	TPG +P 2X8, TYPE 2, NON-SLIT							
#4	7-685-881-09	SCREW +BVTT 4X8 (S)							
#5	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3							

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

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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