

HCD-VX880AV

SERVICE MANUAL


Chinese Model



HCD-VX880AV is the Amplifier, Video CD player, Tape Deck and Tuner section in MHC-VX880AV.

This stereo system is equipped with the Dolby B-type noise reduction system*.

* Manufactured under license from Dolby Laboratories Licensing Corporation.

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CD SECTION	Model Name Using Similar Mechanism	NEW
	Mechanism Type	CDM38LH-26BD36L
	Base Unit Type	BU-26BD36L
	Optical Pick-up Type	KSS-213D/Q-NP
TAPE DECK SECTION	Model Name Using Similar Mechanism	HTC-5550
	Tape Transport Mechanism Type	TCM-230AWR2

SPECIFICATIONS

Amplifier section

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

Front Speaker:

DIN power output (rated) 95 + 95 watts
(8 ohms at 1 kHz, DIN)

Continuous RMS power output (reference)
120 + 120 watts
(8 ohms at 1 kHz,
10% THD)

Center Speaker:

DIN power output (rated) 30 watts
(8 ohms at 1 kHz, DIN)

Continuous RMS power output (reference)
35 watts
(8 ohms at 1 kHz,
10% THD)

Rear Speaker:

DIN power output (rated) 30 + 30 watts
(8 ohms at 1 kHz, DIN)

Continuous RMS power output (reference)
35 + 35 watts
(8 ohms at 1 kHz,
10% THD)

Inputs

MD IN:
(phono jacks) voltage 450 mV,
impedance 47 kilohms

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

DVD INPUT:

FRONT IN:
(phono jacks) voltage 450 mV,
impedance 47 kilohms

REAR IN:
(phono jacks) voltage 450 mV,
impedance 47 kilohms

CENTER IN:
(phono jacks) voltage 450 mV,
impedance 47 kilohms

WOOFER IN:
(phono jacks) voltage 450 mV,
impedance 47 kilohms

MIC 1/2 (phone jack):
sensitivity 1 mV,
impedance 10 kilohms

Outputs

MD OUT (phono jacks): voltage 250 mV
impedance 1 kilohms

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

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

PHONES (stereo phone jack):
accepts headphones of 8
ohms or more

FRONT SPEAKER:
accepts impedance of 8 to
16 ohms

REAR SURROUND SPEAKER:
accepts impedance of 8 to
16 ohms

CENTER SURROUND SPEAKER:
accepts impedance of 8 to
16 ohms

SUPER WOOFER:
Voltage 1 V, impedance 1
kilohms

SUPER VIDEO CD/VIDEO CD/CD player section

System

Compact disc and digital
audio and video system
Semiconductor laser
($\lambda=780\text{nm}$)

Laser

Emission duration:
continuous
Max. 44.6 μW *
*This output is the value
measured at a distance of
200 mm from the
objective lens surface on
the Optical Pick-up Block
with 7 mm aperture.

Laser output

Wavelength

780 - 790 nm

Frequency response

2 Hz - 20 kHz ($\pm 0.5\text{ dB}$)

Signal-to-noise ratio

More than 90 dB

Dynamic range

More than 90 dB

Video color system format

NTSC, PAL

CD OPTICAL DIGITAL OUT

(Square optical connector jack, rear panel)

Wavelength

660 nm

Output Level

-18 dBm

— Continued on next page —

MINI Hi-Fi COMPONENT SYSTEM



SONY®

Tape player section

Recording system 4-track 2-channel stereo
Frequency response 40 – 13,000 Hz (±3 dB),
(DOLBY NR OFF) 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 87.5 – 108.0 MHz
Antenna FM lead antenna
Antenna terminals 75 ohm unbalanced
Intermediate frequency 10.7 MHz

AM tuner section

Tuning range
2 Band type: 531 – 1,602 kHz
(with the interval set at 9
kHz)
530 – 1,710 kHz
(with the interval set at 10
kHz)

3 Band type:
MW:

SW:

Antenna
Antenna terminals
Intermediate frequency

531 – 1,602 kHz
(with the interval set at 9
kHz)
530 – 1,710 kHz
(with the interval set at 10
kHz)
5.95 – 17.90 MHz
(with the interval set at 5
kHz)
AM loop antenna
External antenna terminal
450 kHz

General

Power requirements
Thai and Chinese models: 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: 240 watts
Dimensions (w/h/d) Approx. 280 x 340 x 395 mm
Mass: Approx. 12.4 kg

Design and specifications are subject to change
without notice.

CAUTION

Use of controls or adjustments or performance of procedures
other than those specified herein may result in hazardous ra-
diation 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.

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 PROD-
UCT MARKING is located on
the rear exterior.



SAFETY-RELATED COMPONENT WARNING !!

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

与安全有关的零部件须知

在原理图上用阴影及 △ 标记来识别的零部件在安全操作
上是具有关键性的。这些零部件要用本手册中所示的部件号
对应的索尼零部件进行更换。

在安全操作上具有关键性的电路调整与索尼公司出版的
维修手册完全一致。在更换关键零部件时或怀疑动作失常
时，请进行这些调整操作。

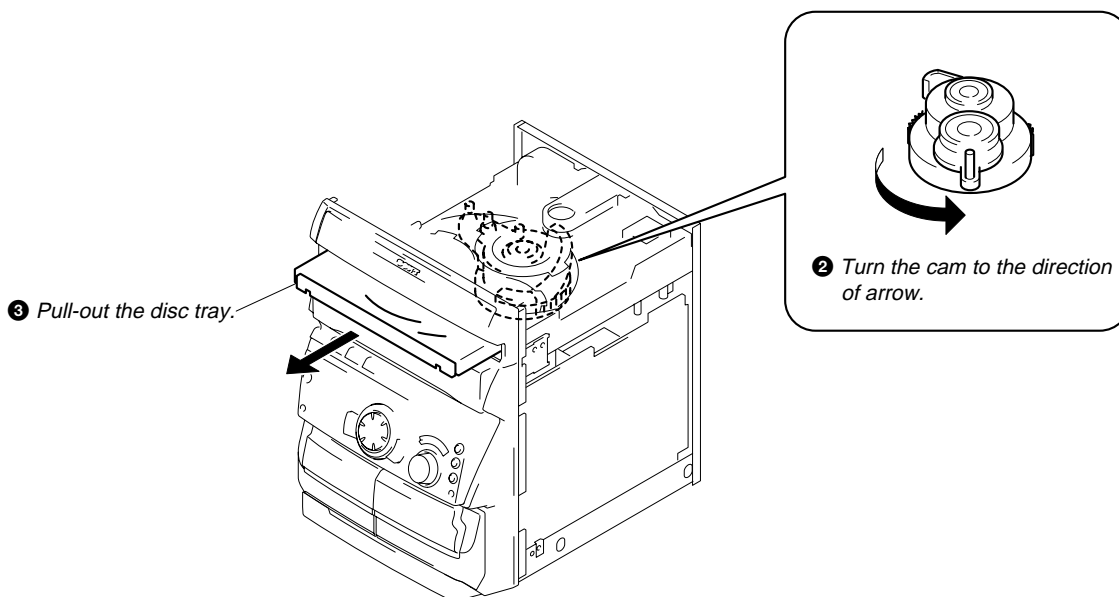
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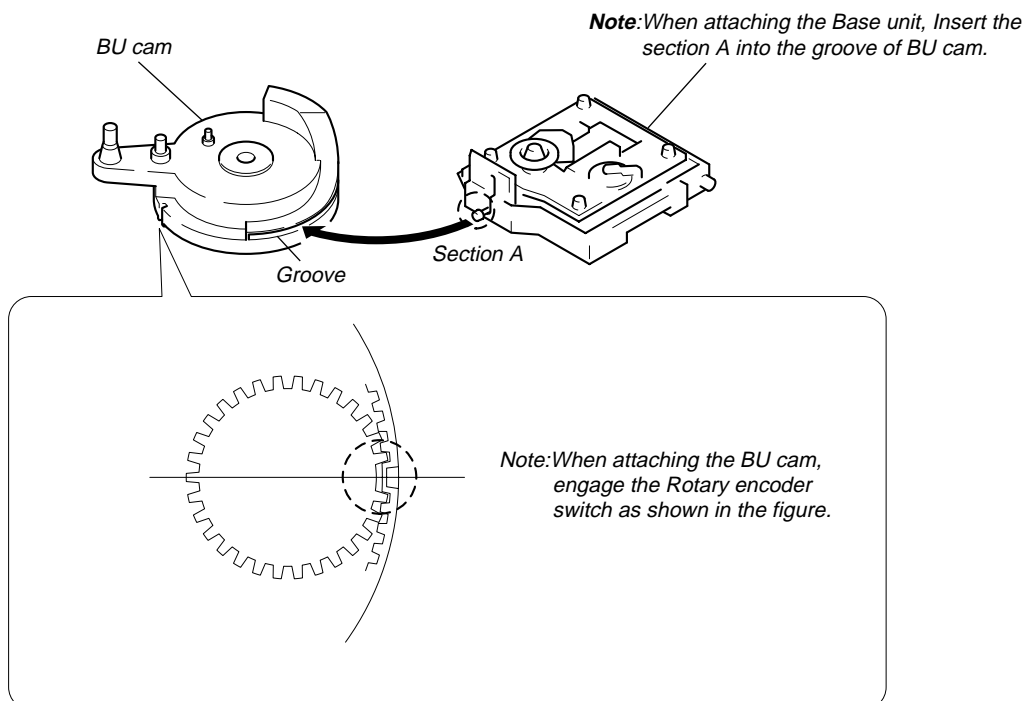
SECTION 1 SERVICING NOTES

HOW TO OPEN THE DISC TRAY WHEN POWER SWITCH TURNS OFF

- 1 Remove the Case.



Note for Installation (ROTARY ENCODER)



CD-TEXT

This unit is provided with a simple CD-TEXT display function.

The CD-TEXT contents of 20 tracks are displayed on the fluorescent display tube.

Since the function is simple, some special characters may not be displayed, or may be displayed as other characters.

SELF-DIAGNOSIS

This unit is equipped with a self-diagnosis function.
The function is used for diagnosing the conditions of the circuits of the VIDEO board.

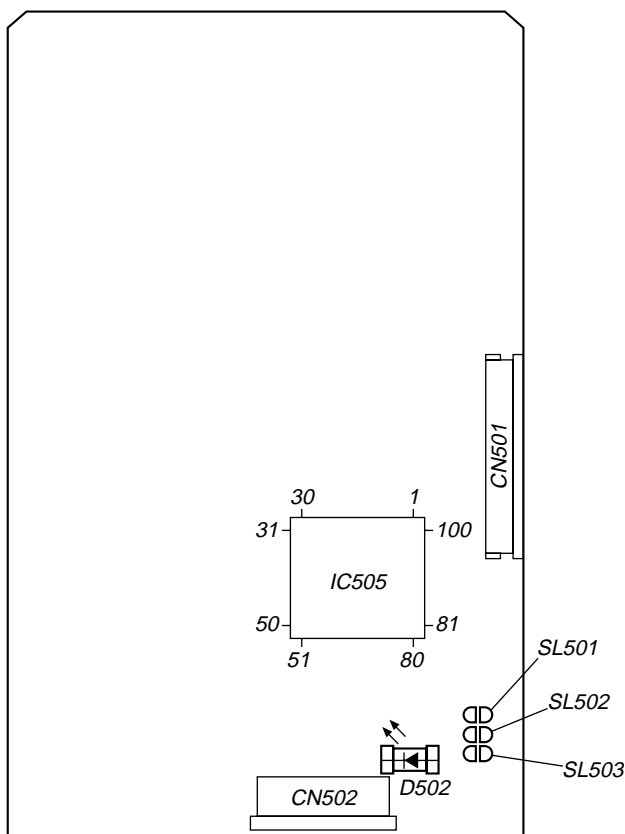
The circuits can be determined if normal or abnormal by the lighting of D502 of the VIDEO board.

Lighting of D502

When lit : Operates normally

Blinks repeatedly : The circuit may be faulty.

[VIDEO BOARD] (SIDE B)



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.

MC Cold Reset

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




Procedure:

1. Press three buttons , , and  simultaneously.
2. "COLD RESET" is displayed on the fluorescent display tube and reset is executed.

CD Delivery Mode

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

Procedure:

1. Press  button to turn the set ON.
2. Press  button and  button simultaneously.
3. A message "LOCK" is displayed on the fluorescent indicator tube, and the CD delivery mode is set.

MC Hot Reset

- This mode resets the set with the preset data kept stored in the memory. The hot reset mode functions same as if the power cord is plugged in and out.










Procedure:

1. Press three buttons , , and  simultaneously.
2. The fluorescent indicator tube becomes blank instantaneously, and the set is reset.

Sled Servo Mode

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

Procedure:

1. Press  button to turn the set ON.
2. Press three buttons , , and  simultaneously.
3. The Sled Servo mode is selected, if "CD" is blanking on the fluorescent indicator tube.
4. With the CD in stop status, When the  button is pressed, the optical pick-up moves outside. When  button is pressed, it moves inside.
5. To exit from this mode, perform as follows:
 - 1) Move the optical pick-up to the most inside track.
 - 2) Execute MC cold reset. (Press the three buttons , , and  button simultaneously.)






Note:

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

Change-over of AM Tuner Step between 9kHz and 10kHz







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

Procedure:

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

LED and Fluorescent Indicator Tube All Lit, Key Check Mode

Procedure:

1. Press three buttons , , and  simultaneously.
2. LEDs and fluorescent indicator tube are all turned on.
Press  button, and the key check mode is activated.
3. In the key check mode, the fluorescent indicator tube displays "K 0 V0 J0". Each time a button is pressed, "K" value increases. However, once a button is pressed, it is no longer taken into account.
"J" Value increases like 1, 2, 3 ... if rotating  knob in "+" direction, or it decreases like 0, 9, 8 ... if rotating in "-" direction.
"V" Value increases like 1, 2, 3 ... if rotating  knob in "+" direction, or it decreases like 0, 9, 8 ... if rotating in "-" direction.
4. To exit from this mode, press three buttons in the same manner as step 1, or disconnect the power cord.







AMS Test Mode



- This mode is used for checking the AMS operations of the tape deck.

JIG

7-819-039-12 Alignment tape, AMS-110A

Procedure:

- Press the  button to turn the unit ON.
- Set the tape (AMS-110A).
- Press the three buttons , , and  button simultaneously.
- "TEST MODE" is displayed on the fluorescent display tube.
- Press the  button and switch the function to the deck with the tape (AMS-110A).
- Press the  button. "AMS CHECK" is displayed on the fluorescent display tube and the tape is rewind.
- AMS starts in the normal direction. If the AMS count is 2 at shut down, proceed to step 8.
"NG" is displayed at other times, and the deck stops.
- AMS starts in the opposite direction. If the AMS count is 2 at shut down again, "OK" is displayed.
"NG" is displayed at other times.

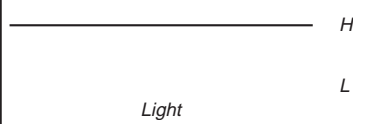
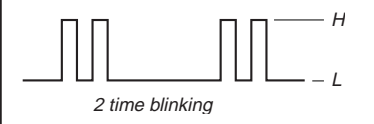
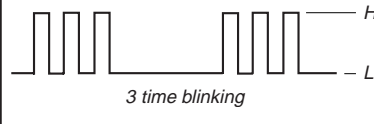
Note: The  button of CD section will become effective and the aging of CD section will stop sometime, if the buttons described in step 3 are not pressed simultaneously. In that case, press  button and operate the CD section.

SELF-DIAGNOSIS

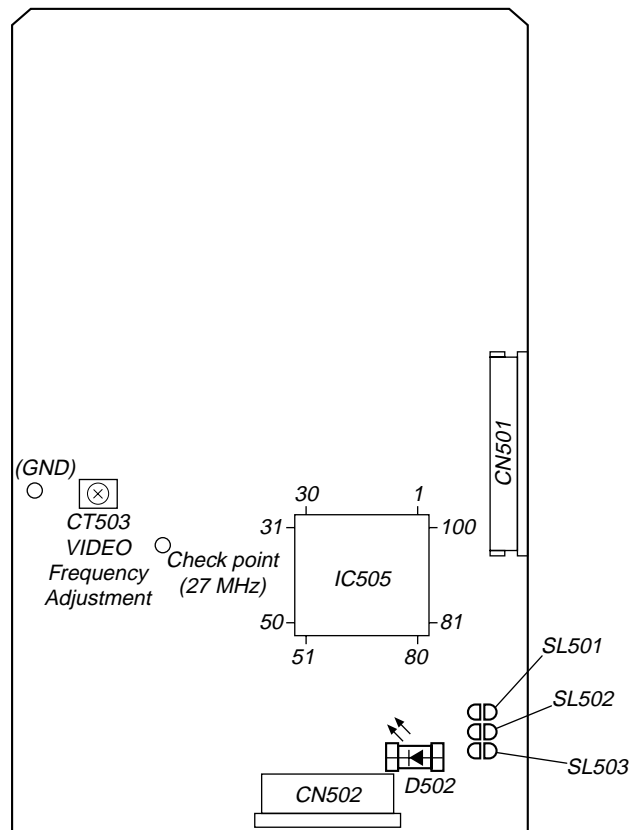
This model has the self-diagnosis function for the VIDEO and AUDIO decoder sections.

Immediately after the power on, the self-diagnosis function searches each operation of IC's around the mechanism control microcomputer (IC701).

The results can be checked by D502 of the VIDEO board.

Oscilloscope (Waveform)	Symptom
	No error
	MPEG decoder (IC506) error
	MPEG decoder (IC506) or DRAM (IC507) error

[VIDEO BOARD] (SIDE B)



Aging Mode

This mode can be used for operation check of tape deck section.

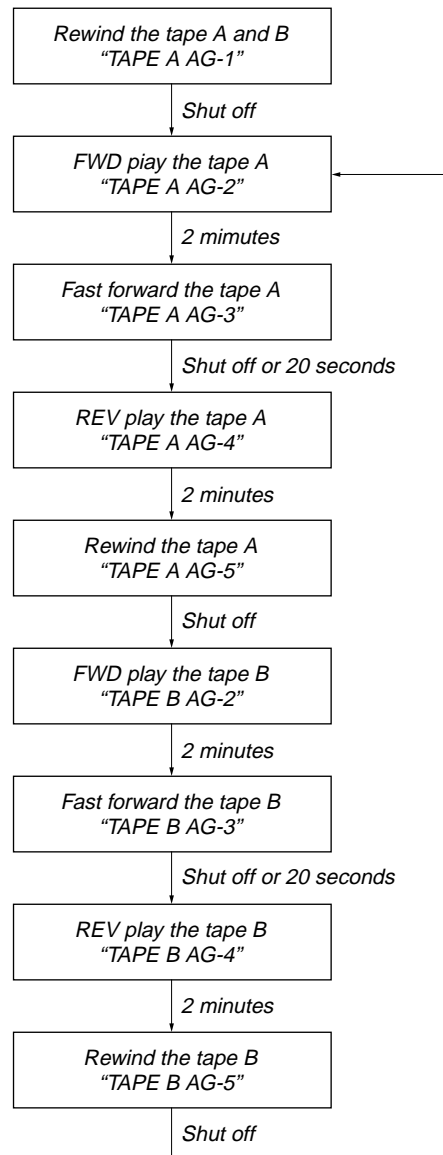
- If an error occurred:
The aging operation stops and display then status.
- If no error occurs:
The aging operation continues repeatedly.

Procedure:

1. Load the tapes into the decks A and B respectively.
2. Press the **FUNCTION** button to select the function "CD".
3. Press the **PLAY MODE** button to set the "ALL DISCS" mode, and press the **REPEAT** button to "REPEAT" off.
4. Press three buttons of **■**, **ENTER/NEXT**, and **DISC SKIP/EX-CHANGE** simultaneously.
5. The aging mode is activated, if the indicator of disc tray number on the fluorescent indicator tube is blinking.
6. To exit from the aging mode, press the **I/⏻** button to turn the power OFF and operate the cold reset. (Refer to the "MC Cold Reset")

- The sequence during the aging mode is following as below.
- If an error occurred, stop display that step.

Aging mode sequence:



Note: "TAPE * AG_*" is display of each step.

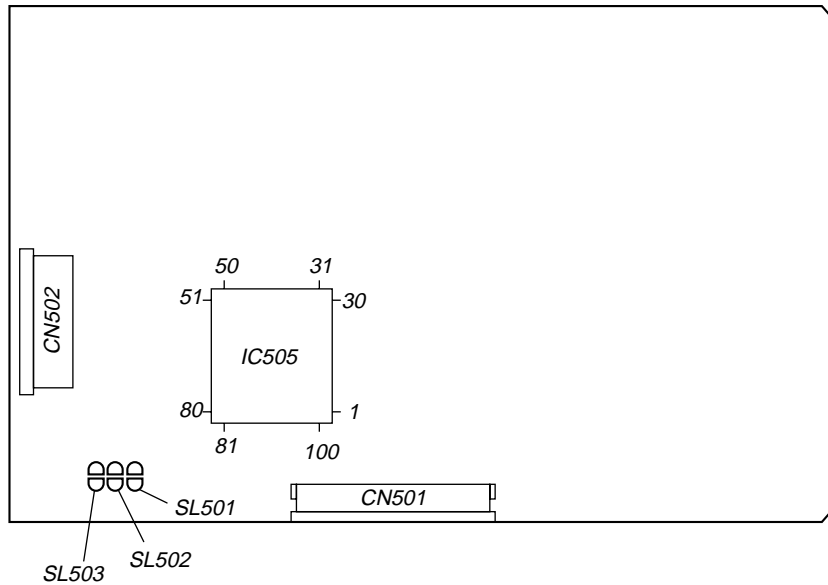
VIDEO CD COLOR-BARS MODE

On this mode, the data of the color-bars signal as a picture signal and the 1kHz sine wave signal as a sound signal are output by the mechanism control microcomputer (IC505) for 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 J502 (VIDEO OUT) and the sound signal can be observed at J101 (VIDEO/MD (AUDIO) OUT) using an oscilloscope.

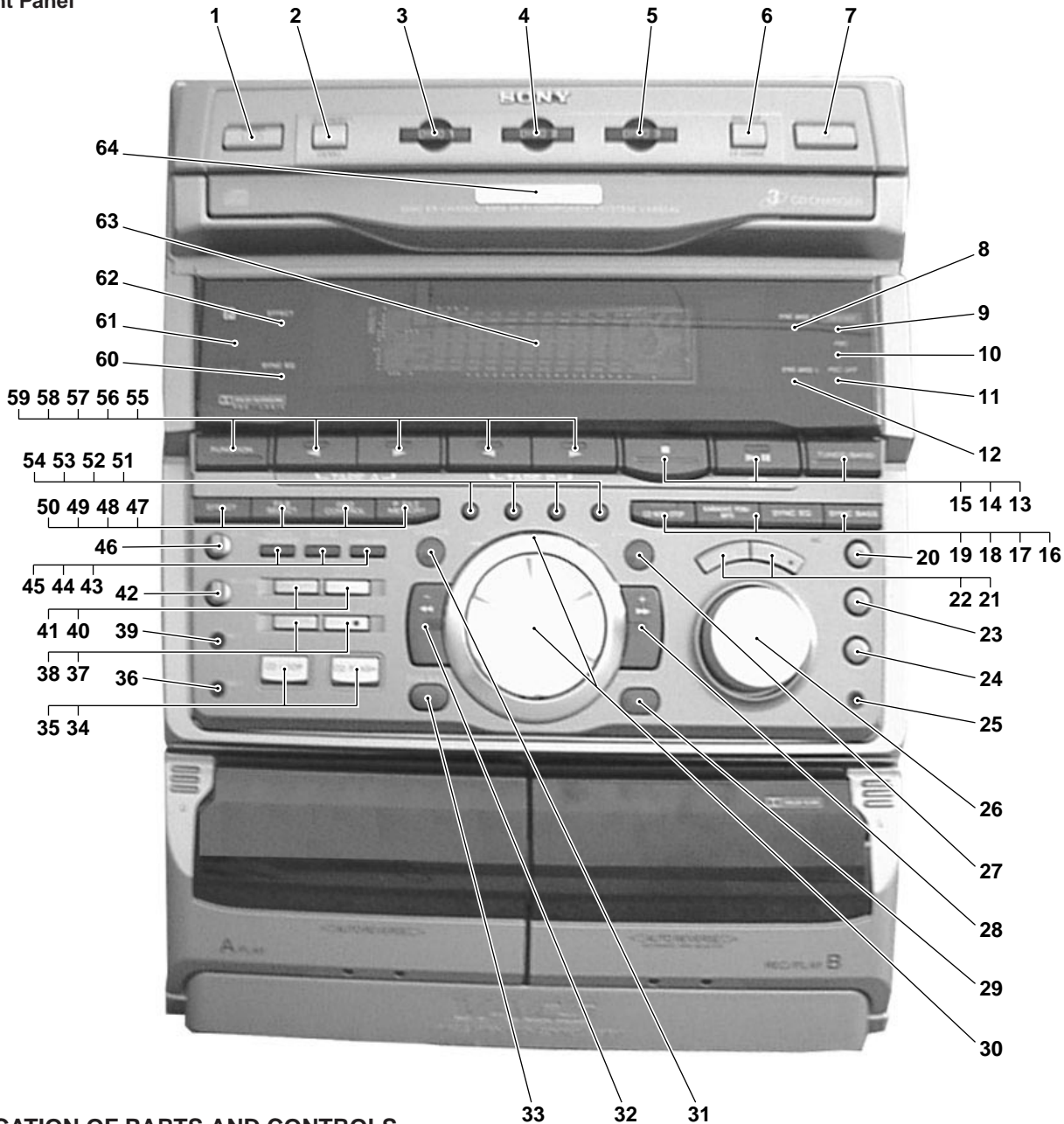
1. Connect the lead wire to both ends of the land of SL503 of the VIDEO board.
2. Turn the power on. Press **FUNCTION** button to select CD.
3. After 2 or 3 seconds later, connect the lead wire.
4. After measuring, remove the lead wire connected.

[VIDEO BOARD] (SIDE B)



SECTION 2 GENERAL

Front Panel

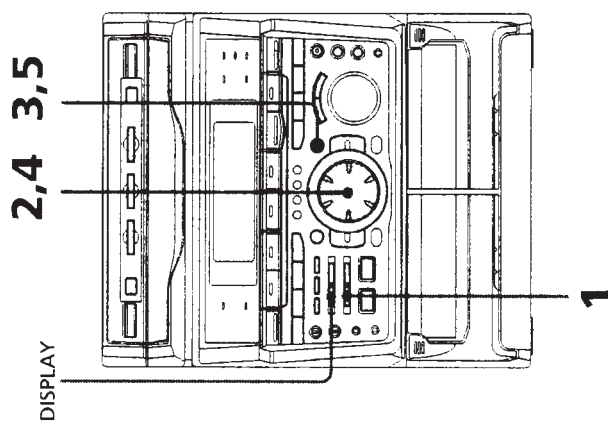


LOCATION OF PARTS AND CONTROLS

- | | | |
|---|--------------------------------------|---------------------------------------|
| 1 I/⏻ button and indicator | 22 DBFB button | 44 PLAY MODE/DOLBY NR button |
| 2 DEMO (STANDBY) button | 23 HI-DUB button | 45 EDIT DIRECTION TUNER MEMORY button |
| 3 DISC 1 button and indicator | 24 CD SYNC button | 46 ECHO LEVEL knob |
| 4 DISC 2 button and indicator | 25 PHONES jack | 47 P FILE MEMORY button |
| 5 DISC 3 button and indicator | 26 VOLUME knob | 48 GEQ CONTROL button |
| 6 DISC SKIP/EX-CHANGE button | 27 ENTER/NEXT button and indicator | 49 FILE SELECT button |
| 7 ⏻ (Eject) button | 28 ►► + button and indicator | 50 EFFECT button |
| 8 SYNC BASS H indicator | 29 PRO LOGIC button and indicator | 51 NEXT button |
| 9 SVIDEO/VCD indicator | 30 JOG/◀◀▶▶▶▶ dial and indicator | 52 PREV button |
| 10 PBC indicator | 31 GROOVE button and indicator | 53 RETURN button |
| 11 PBC OFF indicator | 32 ◀◀ - button and indicator | 54 SELECT button |
| 12 SYNC BASS L indicator | 33 DVD 5.1 CH button | 55 ► (TAPE B) button and indicator |
| 13 TUNER/BAND button | 34 CD FLASH button | 56 ◀ (TAPE B) button and indicator |
| 14 ► (CD) button and indicator | 35 CD LOOP button | 57 ► (TAPE A) button and indicator |
| 15 ■ button | 36 MIC 2 jack | 58 ◀ (TAPE A) button and indicator |
| 16 SYNC BASS button | 37 TIMER SELECT button and indicator | 59 FUNCTION button |
| 17 SYNC EQ button | 38 CLOCK/TIME SET button | 60 SYNC EQ indicator |
| 18 KARAOKE PON/MPX button | 39 MIC 1 jack | 61 Remote sensor |
| 19 CD NON-STOP button and indicator | 40 SPECTRUM ANALYZER button | 62 EFFECT indicator |
| 20 REC PAUSE/START button and indicator | 41 DISPLAY button | 63 Display Window |
| 21 DSP button and indicator | 42 MIC LEVEL knob | 64 Disc tray |
| | 43 REPEAT/STEREO/MONO button | |

Step 3: Setting the time

You must set the time before using the timer functions.



- 1** Press CLOCK/TIMER SET.
The hour indication flashes.



- 2** Turn the jog dial to set the hour.

- 3** Press ENTER/NEXT.

The minute indication flashes.



- 4** Turn the jog dial to set the minute.

- 5** Press ENTER/NEXT.

The clock starts working.

Tip

If you've made a mistake, start over from step 1.

To change the time

The previous explanation shows you how to set the time while the power is off. To change the time while the power is on, do the following:

- 1 Press CLOCK/TIMER SET.
- 2 Turn the jog dial to select SET CLOCK.
- 3 Press ENTER/NEXT.
- 4 Perform steps 2 through 5 above.

Note

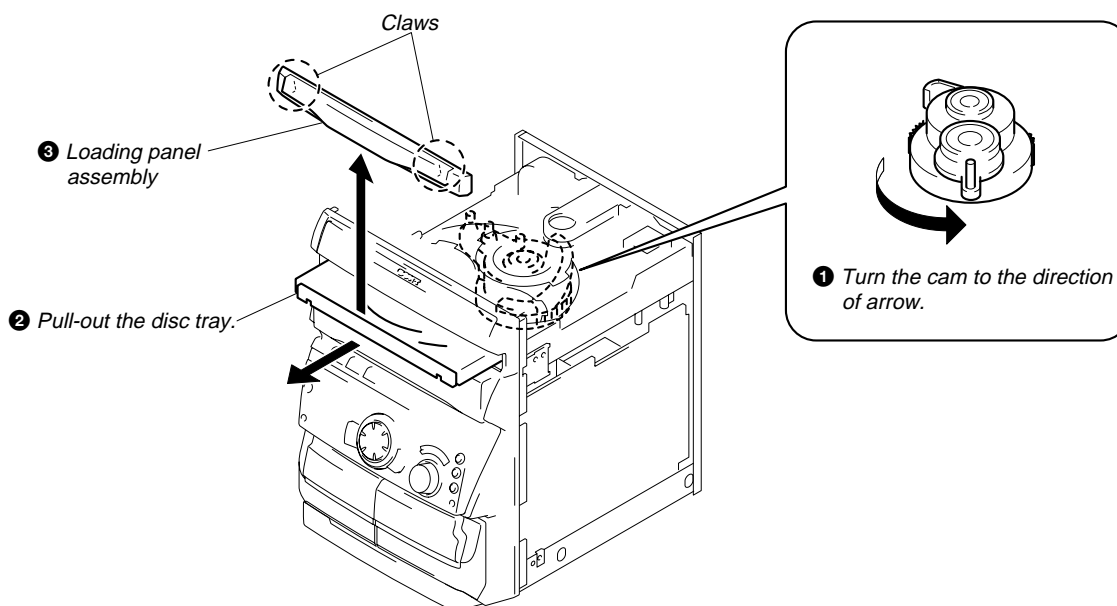
The clock settings are cancelled when you disconnect the power cord or if a power failure occurs.

This section is extracted from instruction manual.

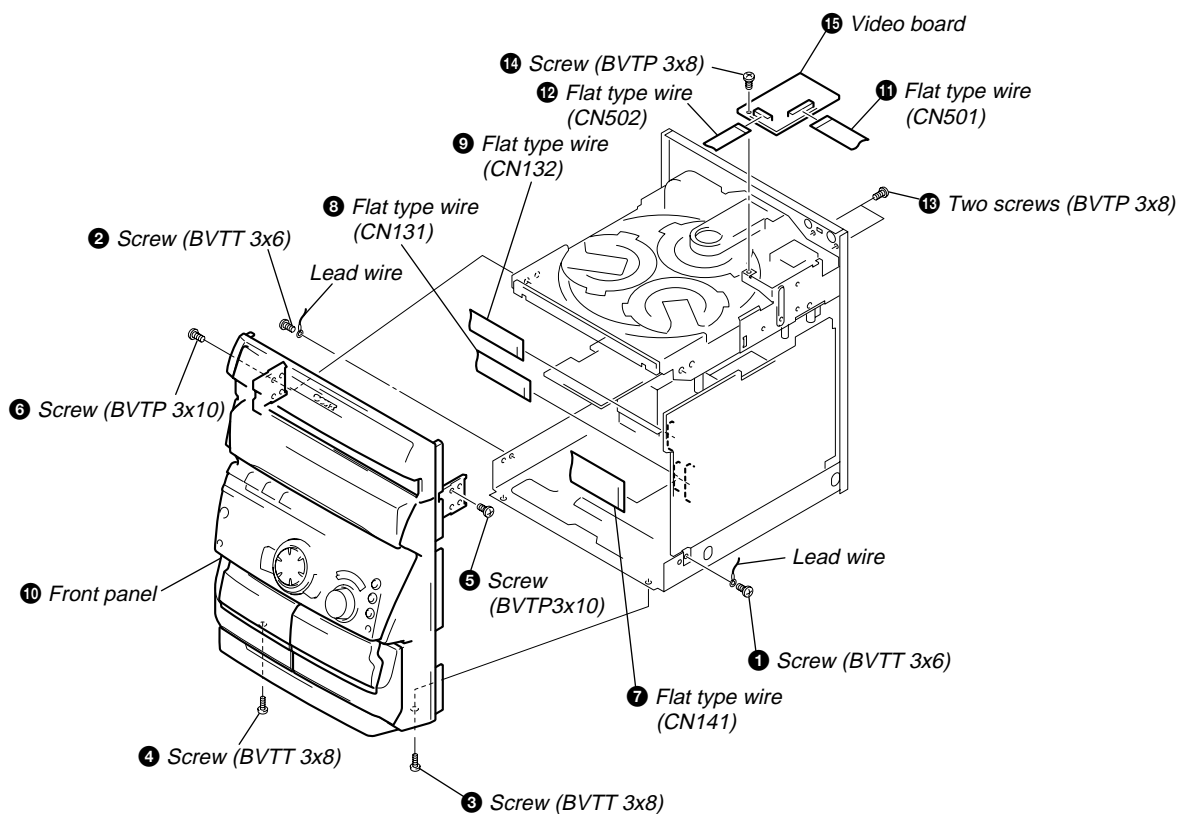
SECTION 3 DISASSEMBLY

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

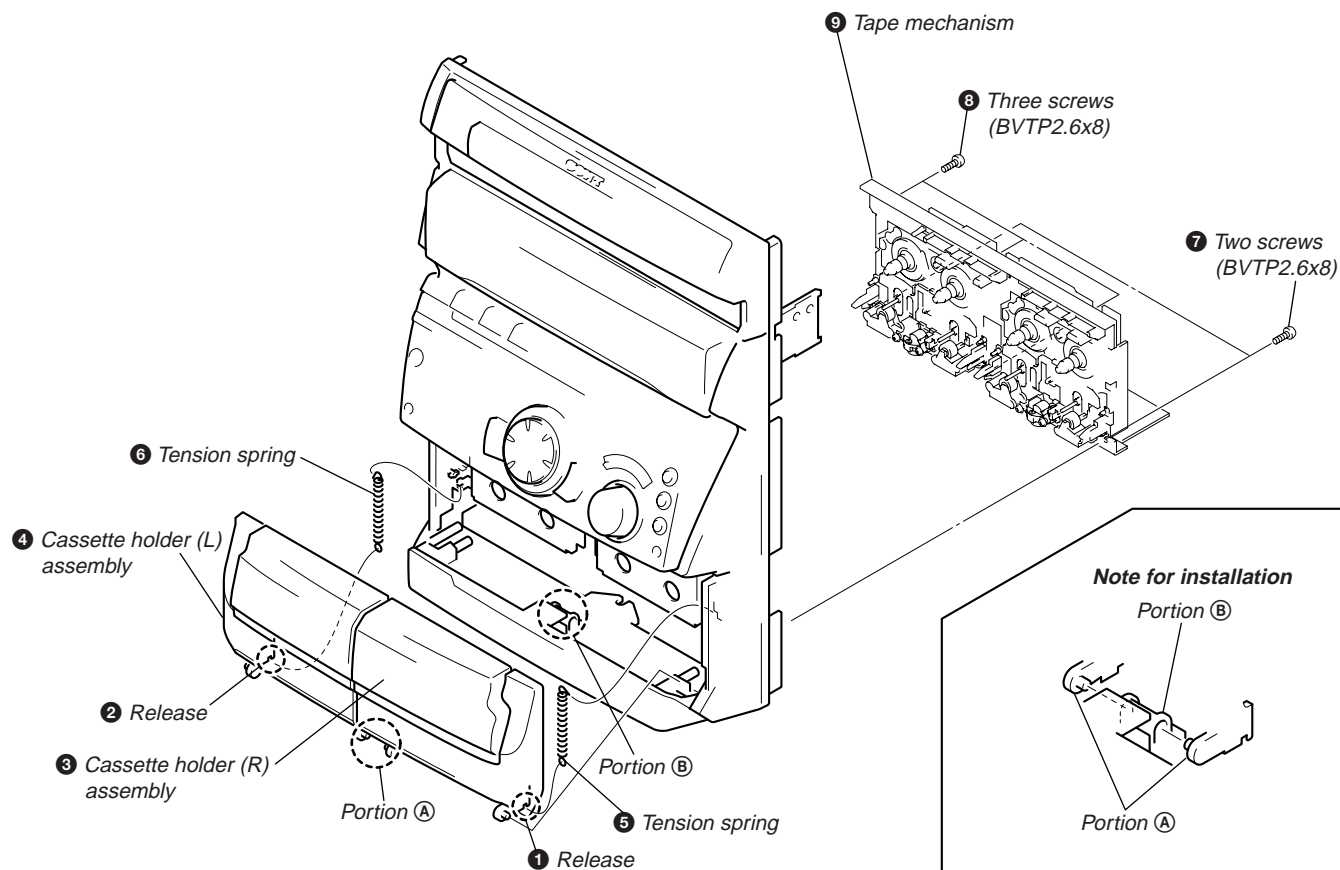
3-1. LOADING PANEL



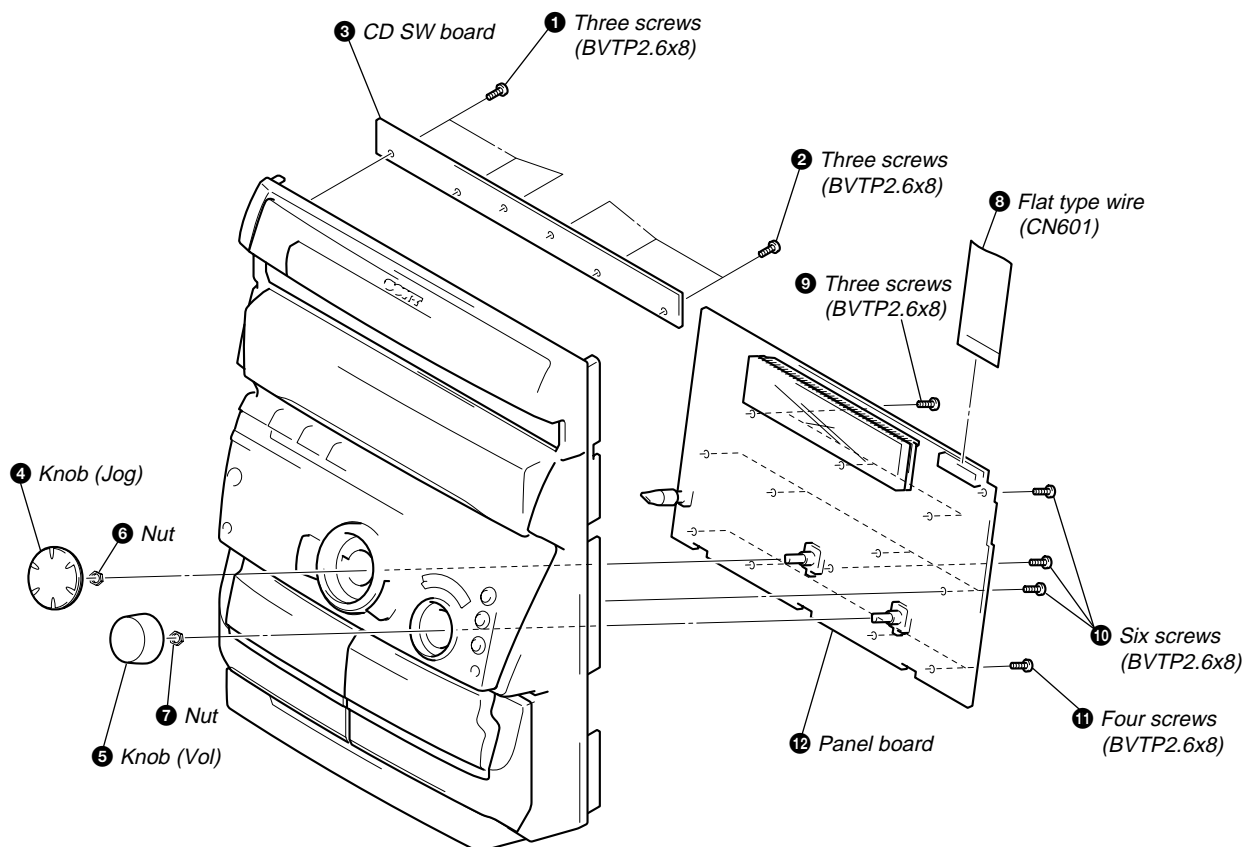
3-2. FRONT PANEL



3-3. CASSETTE LID AND TAPE MECHANISM

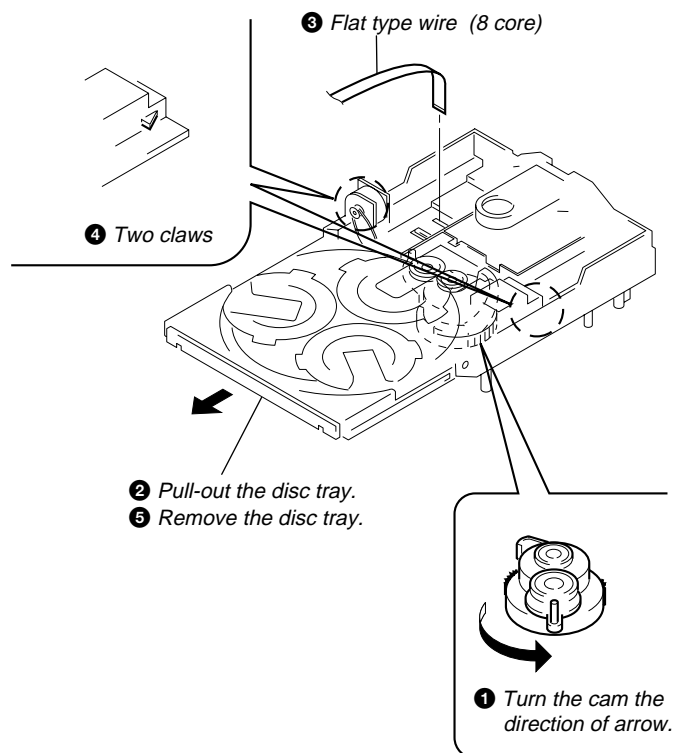


3-4. CD SW BOARD AND PANEL BOARD

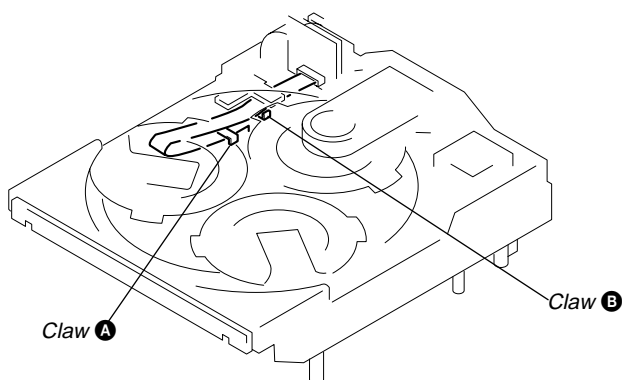


3-5. DISC TRAY

(Perform after removing the front panel.)



Note: When installing the Disc tray, pull around the flat type wire to pass through the claw A and claw B, as shown in the figure.



SECTION 4 MECHANICAL ADJUSTMENTS

Precaution

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

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

Torque Measurement

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

SECTION 5 ELECTRICAL ADJUSTMENTS

DECK SECTION

0 dB=0.775V

- Demagnetize the record/playback head with a head demagnetizer.
- Do not use a magnetized screwdriver for the adjustments.
- After the adjustments, apply suitable locking compound to the parts adjusted.
- The adjustments should be performed with the rated power supply voltage unless otherwise noted.
- 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.)
- The adjustments should be performed for both L-CH and R-CH.
- Switches and controls should be set as follows unless otherwise specified.

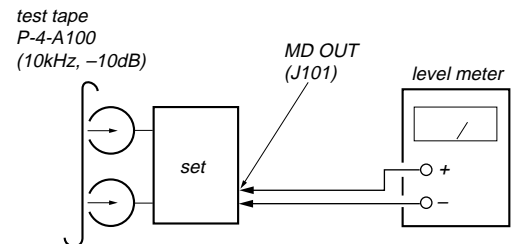
Tape	Signal	Used for
P-4-A100	10 kHz, -10 dB	Azimuth Adjustment
WS-48B	3 kHz, 0 dB	Tape Speed Adjustment
P-4-L300	315 Hz, 0 dB	Level Adjustment

Record/Playback Head Azimuth Adjustment (Deck A, Deck B)

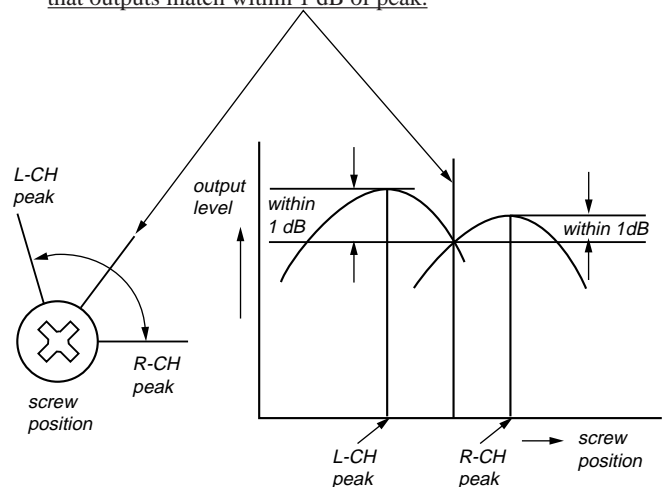
Note: Perform this adjustments for both decks.

Procedure:

- Mode : Playback

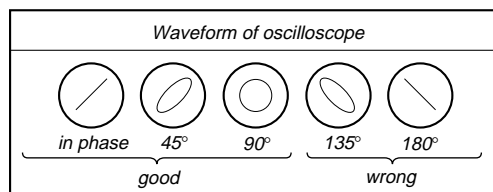
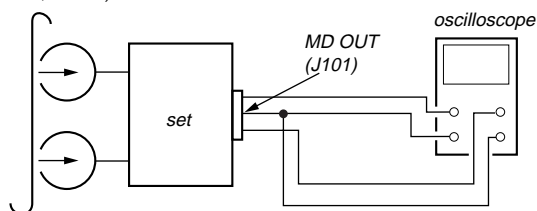


- Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1 dB of peak.



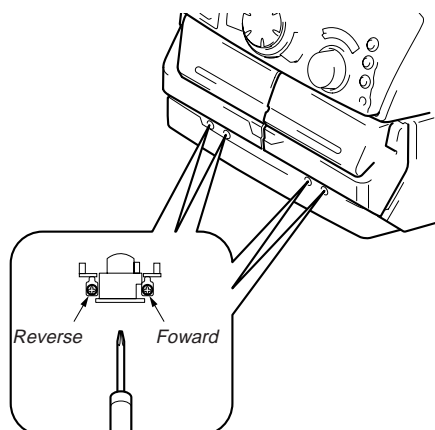
3. Mode: Playback

test tape
P-4-A100
(10kHz, -10dB)



4. 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: Set the test mode using the following method and begin tape speed adjustment.

In the test mode, the speed will switch to double speed or normal speed each time the **[HI DUB]** button is pressed.

Procedure:

With the power turned ON, press the **[STOP]** button, **[ENTER/NEXT]** button, and **[DISC 3]** button simultaneously.

(The "CD TYPE INDICATOR" on the fluorescent display tube will blink while in the test mode.)

To exit the test mode, press the **[I/O]** button.

1. Insert the WS-48B into deck B.
2. Press the **[STOP]** button of deck B.
3. Press the **[HI DUB]** button and play the tape at double speed.
4. Adjust RV1001 of the LEAF SW board so that the reading of the frequency counter becomes 6000 ± 180 Hz.
5. Press the **[HI DUB]** button and play the tape at normal speed.
6. Adjust RV1002 of the LEAF SW board so that the reading of the frequency counter becomes 3000 ± 90 Hz.

Adjustment Location: LEAF SW board

Sample Value of Wow and flutter

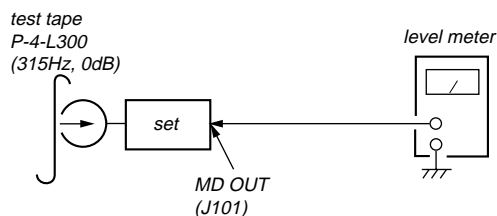
W.RMS (JIS) less than 0.3%

(test tape: WS-48B)

Playback Level Adjustment (Deck A, Deck B)

Procedure:

Mode: Playback



Deck A is RV311 (L-CH) and RV411 (R-CH), deck B is RV301 (L-CH) and RV401 (R-CH)

so that adjustment within the following adjustment level.

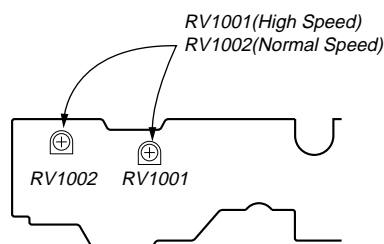
Adjustment level:

J101 playback level: 301.5 to 338.3 mV (-8.2 to -7.2 dB)

level difference between the channels: within ± 0.5 dB

Adjustment Location: AUDIO board

Adjustment Location [LEAF SW BOARD]



Record Bias Adjustment (Deck B)


Procedure:

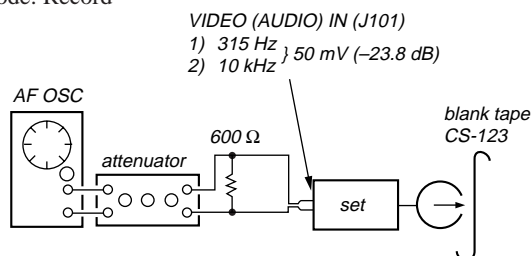
INTRODUCTION

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.

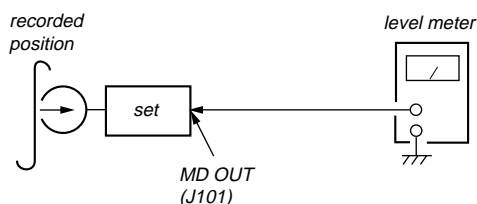
This “REC memory mode” is convenient for performing this adjustment. During recording, the input signal FUNCTION will automatically switch to VIDEO.

(After recording, press the  button without stopping will return to the position where recording was started.)

1. Press **FUNCTION** 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, press the **REC** button, and then press the  button to start recording.
3. Mode: Record



4. Mode: Playback



5. Confirm playback the signal recorded in step 2 become adjustment level as follows.
If these levels do not adjustment level, adjust the RV341 (L-CH) and RV441 (R-CH) on the AUDIO board to repeat steps 3 and 4.

Adjustment level: The playback output of 10 kHz level difference against 315 Hz reference should be ± 1.0 dB.

Adjustment Location: AUDIO board

Record Level Adjustment (Deck B)


Procedure:

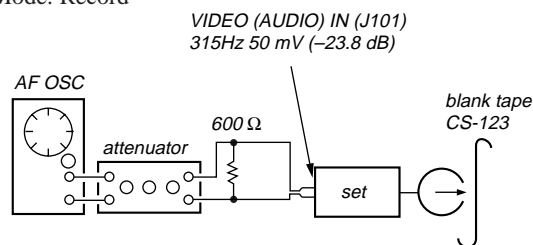
INTRODUCTION

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.

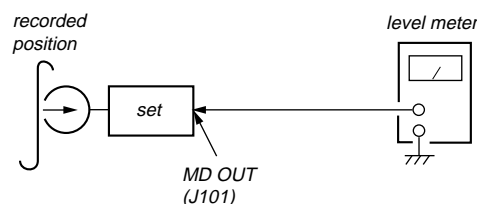
This “REC memory mode” is convenient for performing this adjustment. During recording, the input signal FUNCTION will automatically switch to VIDEO.

(After recording, press the  button without stopping will return to the position where recording was started.)

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



4. Mode: Playback



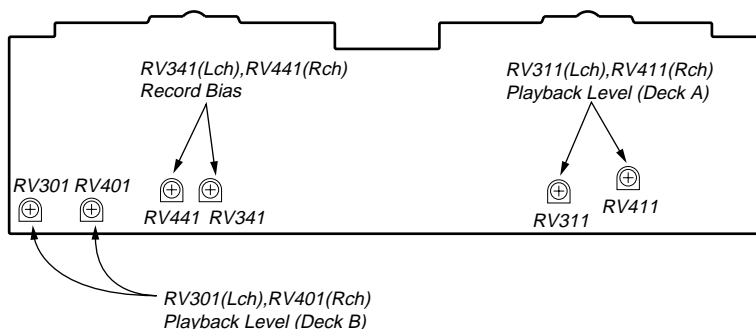
5. Confirm playback the signal recorded in step 2 become adjustment level as follows.
If these levels do not adjustment level, adjust the RV301 (L-CH) and RV351 (R-CH) on the MAIN board to repeat steps 3 and 4.

Adjustment level:
J301 playback level: 47.2 to 53.0 mV (-24.3 to -23.3 dB)

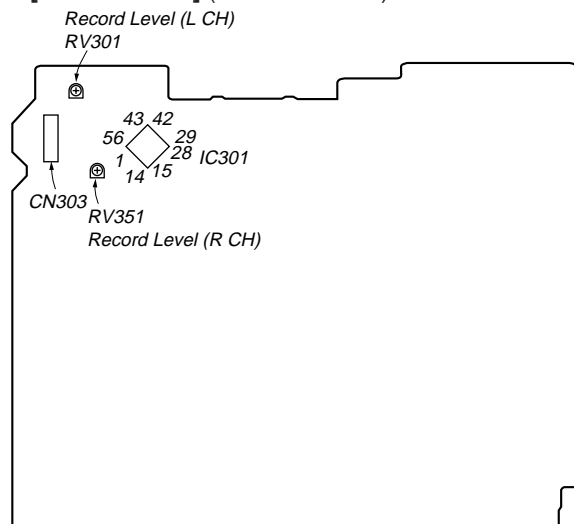
Adjustment Location: MAIN board

Adjustment Location:

[AUDIO BOARD] (Conductor Side)



[MAIN BOARD] (Conductor Side)

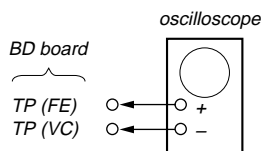


CD SECTION

Note:

1. CD Block is basically constructed 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 $10M\Omega$ 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

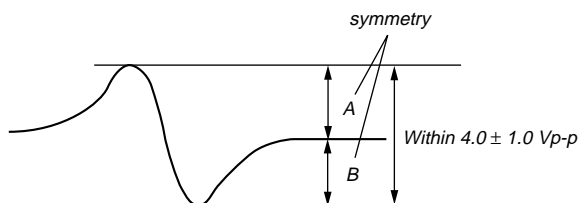


Adjustment Location: BD board

Procedure :

1. Connect the oscilloscope to test points TP (FE) and TP (VC).
2. Connect TP (FE1) and TP (VC), and TP (AGCCON) and GND of the BD board with lead wires.
3. Press the button to turn the set ON.
4. With the disc (YEDS-18) loaded, press the button and perform focus search. (Focus search will be performed in the same way even while the disc table is pushed in and out.)
5. Check the symmetry and peak to peak level of the oscilloscope waveform (S curve) at this time.

S-curve waveform

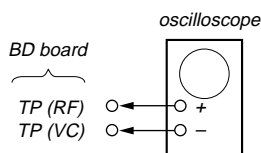


6. After check, remove the lead wire connected in step 2.

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.

Adjustment Location: BD board

RF Level Check

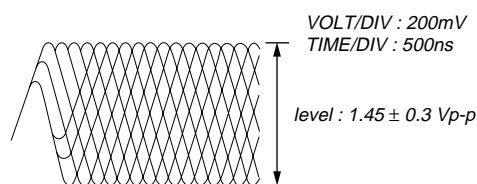


Procedure :

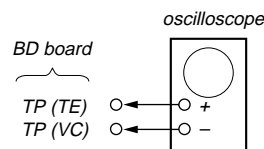
1. Connect oscilloscope to test point TP (RF) and TP (VC) on BD board.
2. Connect TP (AGCCON) and GND of the BD board with lead wires.
3. Press the button to turn the set ON.
4. Put disc (YEDS-18) in and playback 5track.
5. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.
6. After check, remove the lead wire connected in step 2.

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

RF signal waveform



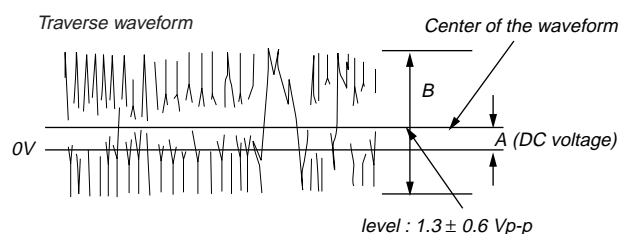
E-F Balance (Traverse) Check



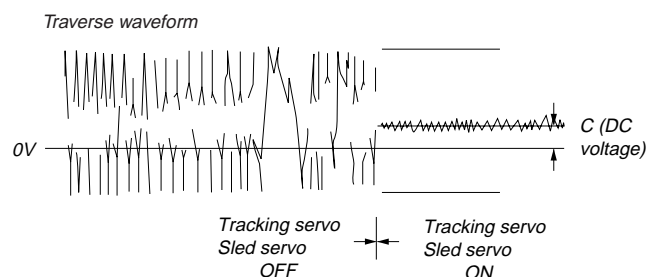
Adjustment Location: BD board

Procedure :

1. Connect oscilloscope to test point TP (TE) and TP (VC) on BD board.
2. Short-circuit SL502 of the video board to GND.
3. Turned Power switch on. Press button to select CD.
4. Put disc (YEDS-18) in to play the number five track.
5. Press the button. (The tracking servo and the sledding servo are turned OFF.)
6. Check the level B of the oscilloscope's waveform and the A (DC voltage) of the center of the Traverse waveform.
Confirm the following :
 $A/B \times 100 = \text{less than } \pm 22\%$



7. Press the button. (The tracking servo and sledding servo are turned ON.) Confirm the C (DC voltage) is almost equal to the A (DC voltage) is step 7.

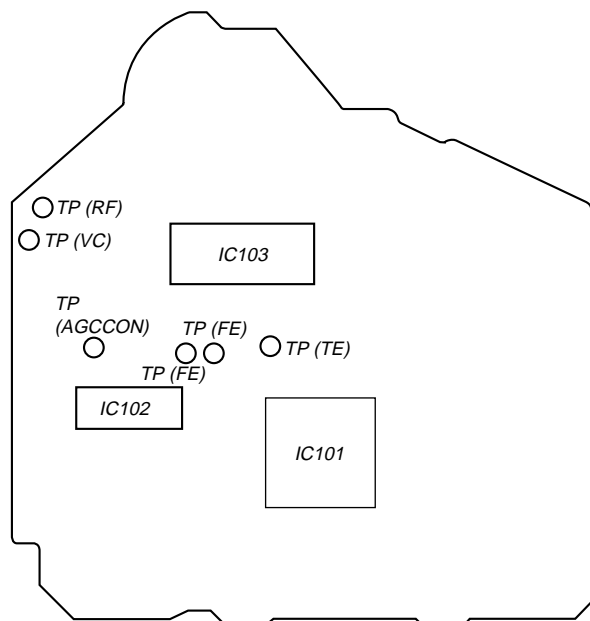


8. Desolder the short-land (SL502) short-circuited at step 2.

Adjustment Location: BD board

Adjustment Location :

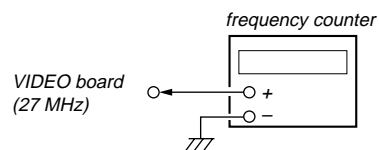
[BD BOARD] (SIDE B)



VIDEO SECTION

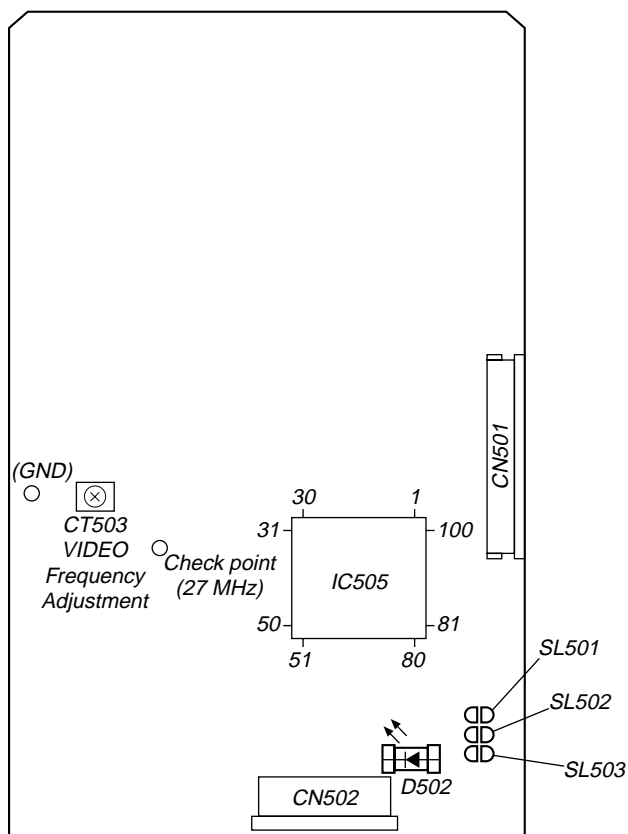
Frequency adjustment

1. Connect the frequency counter to check point (27MHz) of the VIDEO board.
2. Adjust CT503 of the VIDEO board so that the frequency counter read $27\text{MHz} \pm 80\text{Hz}$ at STOP condition.



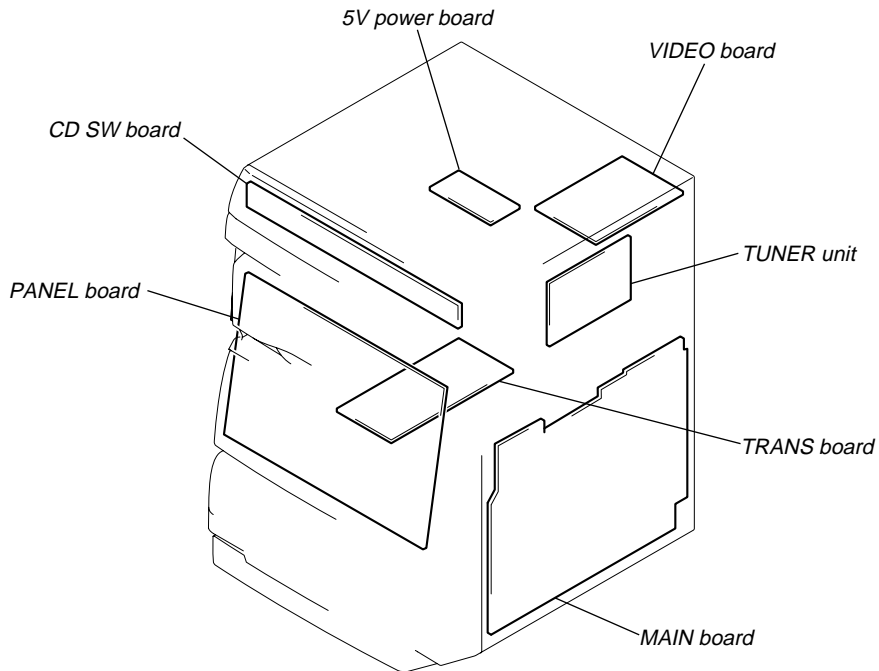
Adjustment Location :

[VIDEO BOARD] (SIDE B)

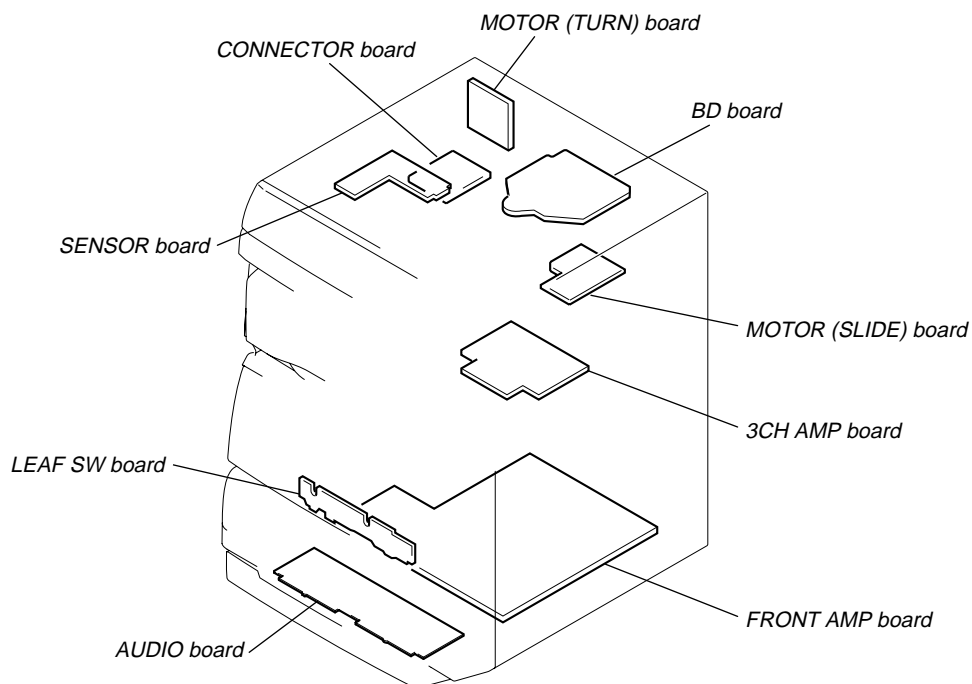


SECTION 6 DIAGRAMS

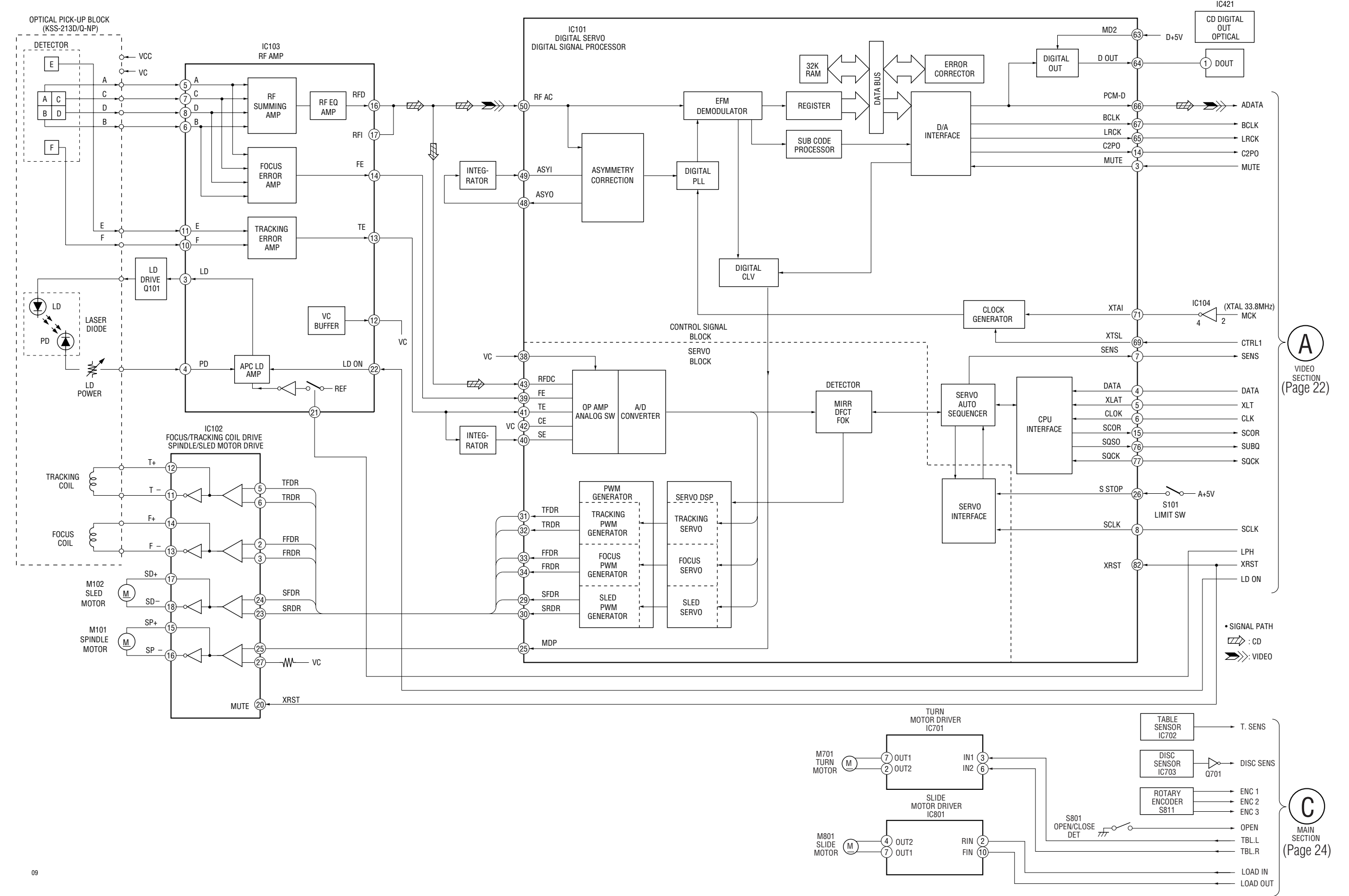
6-1. CIRCUIT BOARDS LOCATION



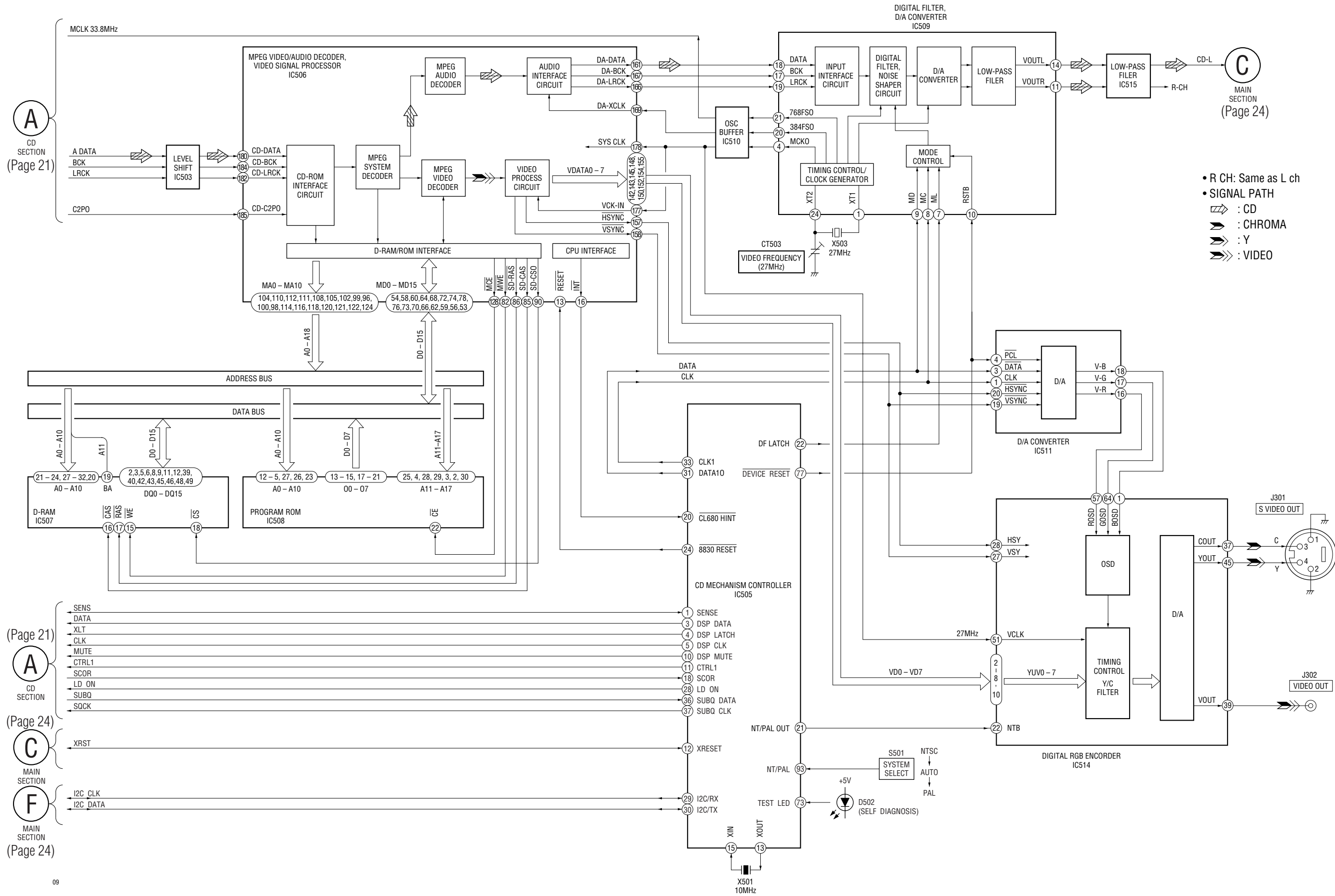
TUNER unit is supplied as the assembled block.



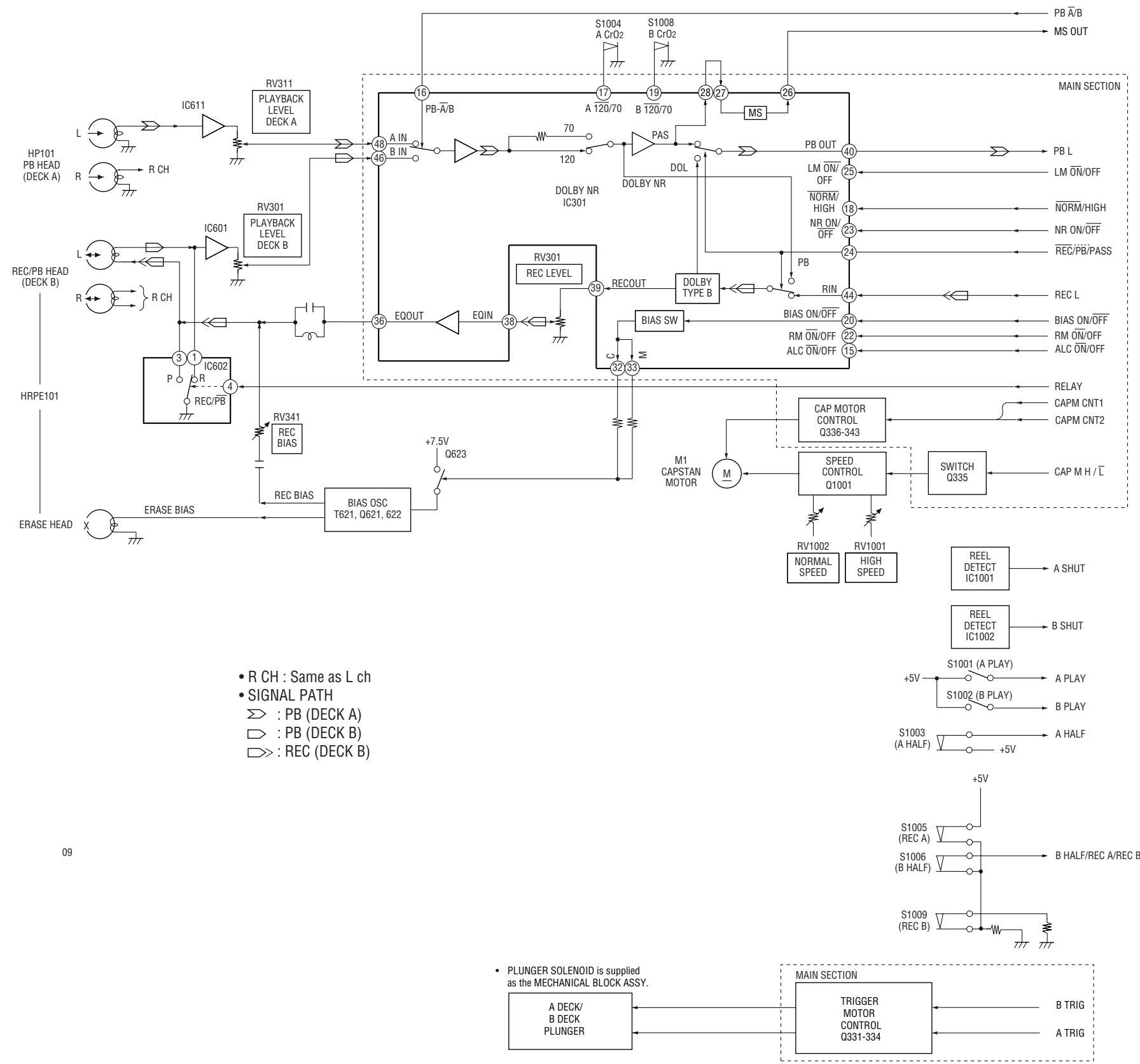
6-2. BLOCK DIAGRAMS
- CD SECTION -



– VIDEO SECTION –



– DECK SECTION –

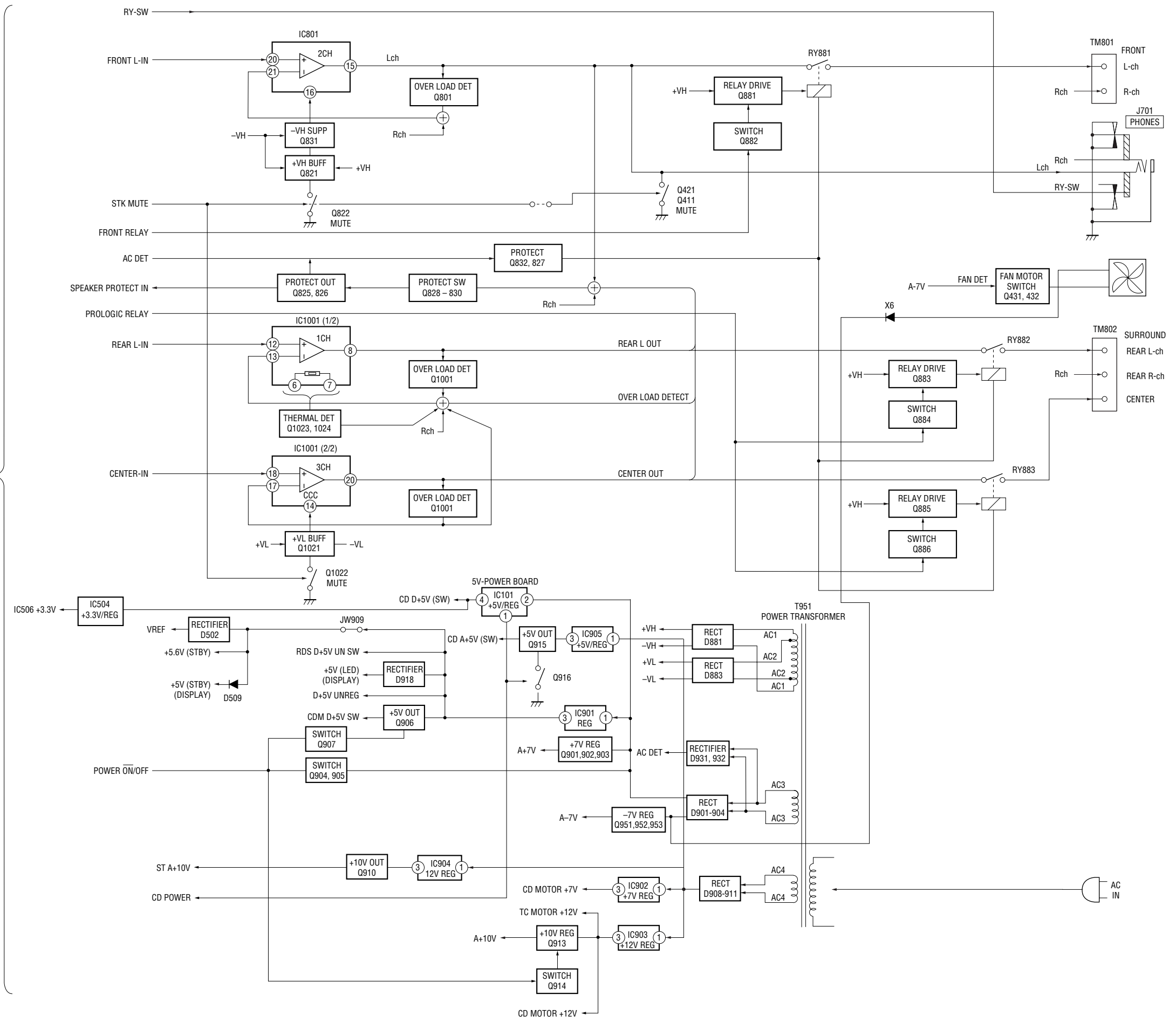


B
MAIN
SECTION
(Page 24)



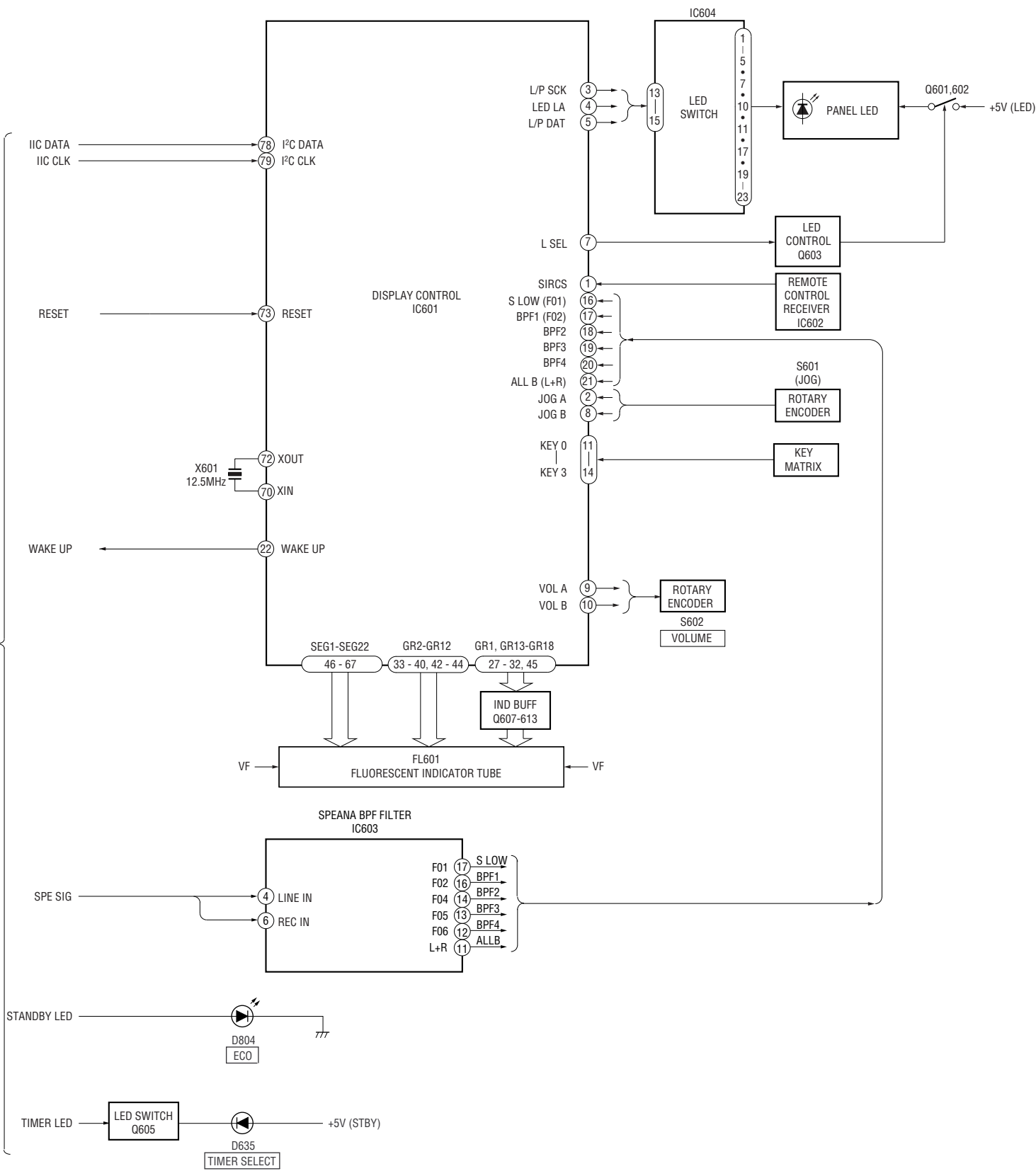
– POWER SECTION –

D
MAIN
SECTION
(Page 24)






– DISPLAY SECTION –

E
MAIN
SECTION
(Page 24)
















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

For schematic diagrams.





- Note:**
- All capacitors are in μF unless otherwise noted. pF : μpF 50 WV or less are not indicated except for electrolytics and tantalums.
 - All resistors are in Ω and $1/4\text{ W}$ or less unless otherwise specified.
 - \triangle : internal component.
 -  : nonflammable resistor.
 -  : fusible resistor.
 -  : 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.

Note:
以阴影和 \triangle 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

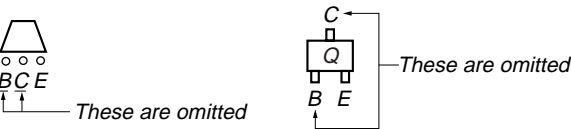
-  : B+ Line.
-  : B- Line.
-  : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance $10\text{ M}\Omega$). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 -  : FM
 -  : VIDEO/MD
 -  : PB (DECK A)
 -  : PB (DECK B)
 -  : REC (DECK B)
 -  : CHROMA
 -  : Y
 -  : VIDEO
 -  : CD
 -  : digital out

For printed wiring boards.

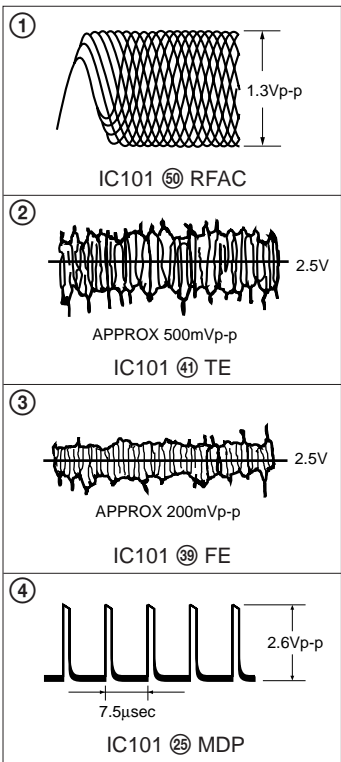
- Note:**
-  : parts extracted from the component side.
 -  : parts extracted from the conductor side.
 -  : Through hole.
 -  : Pattern from the side which enables seeing.
- (The other layers' patterns are not indicated.)

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

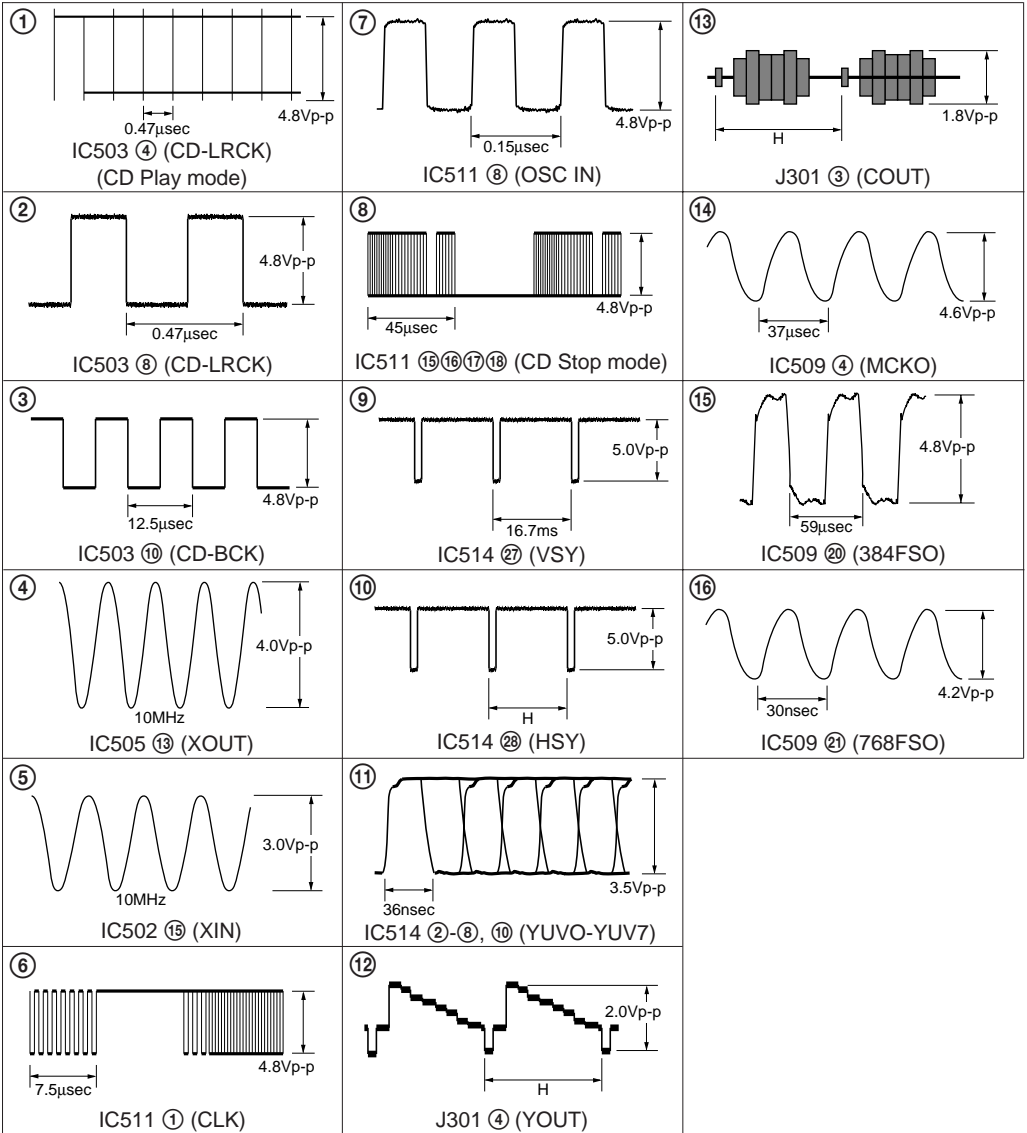
Indication of transistor



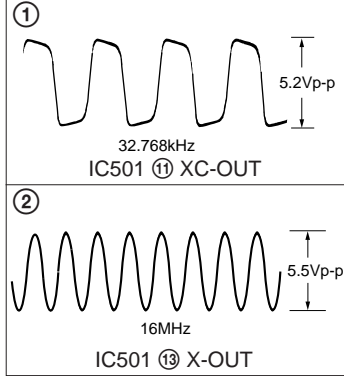
WAVEFORMS
– CD SECTION –



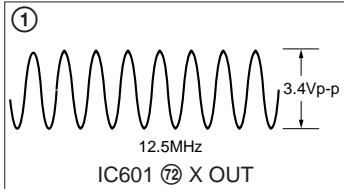
– VIDEO SECTION –



– MAIN (3/4) SECTION –

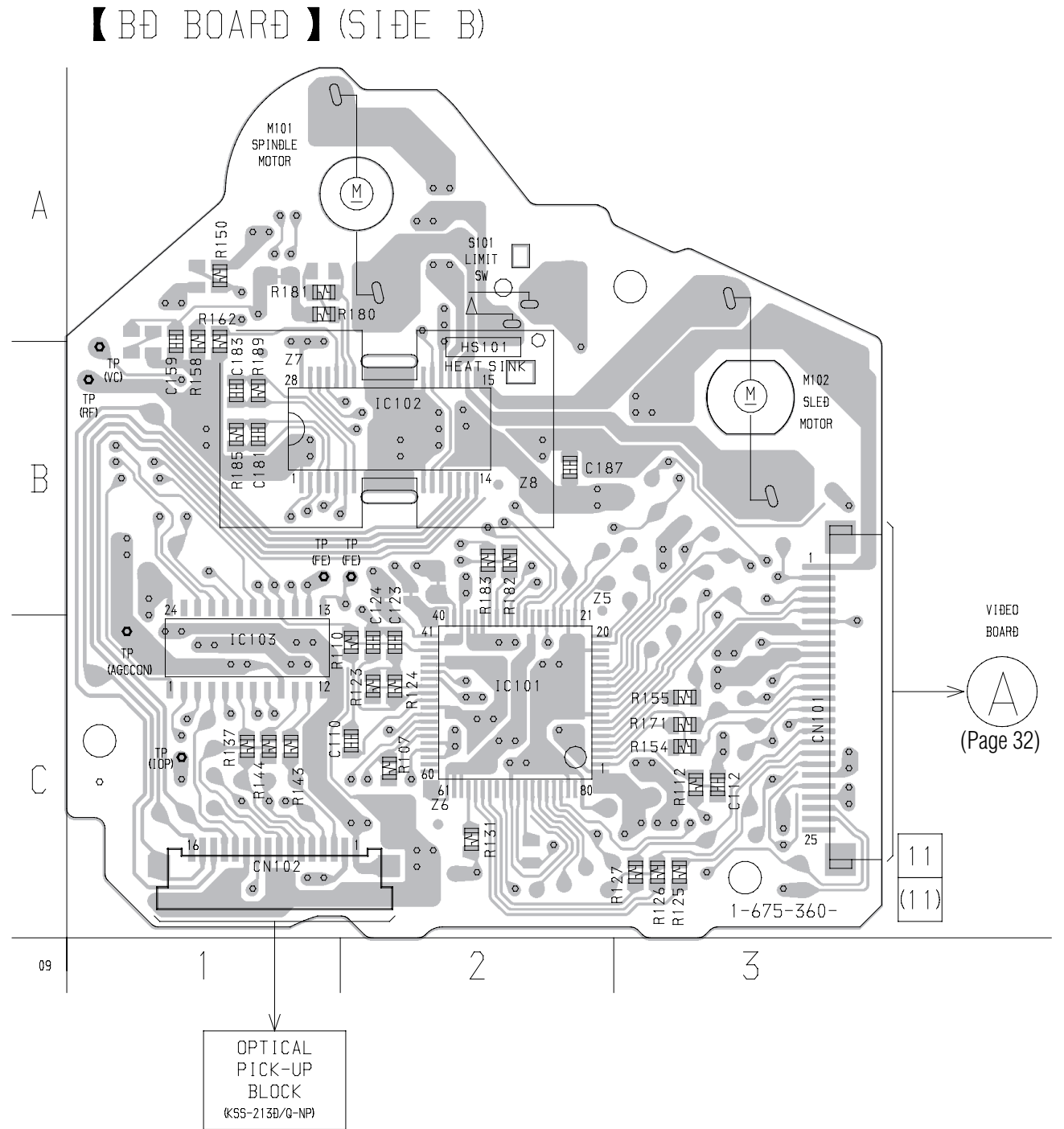
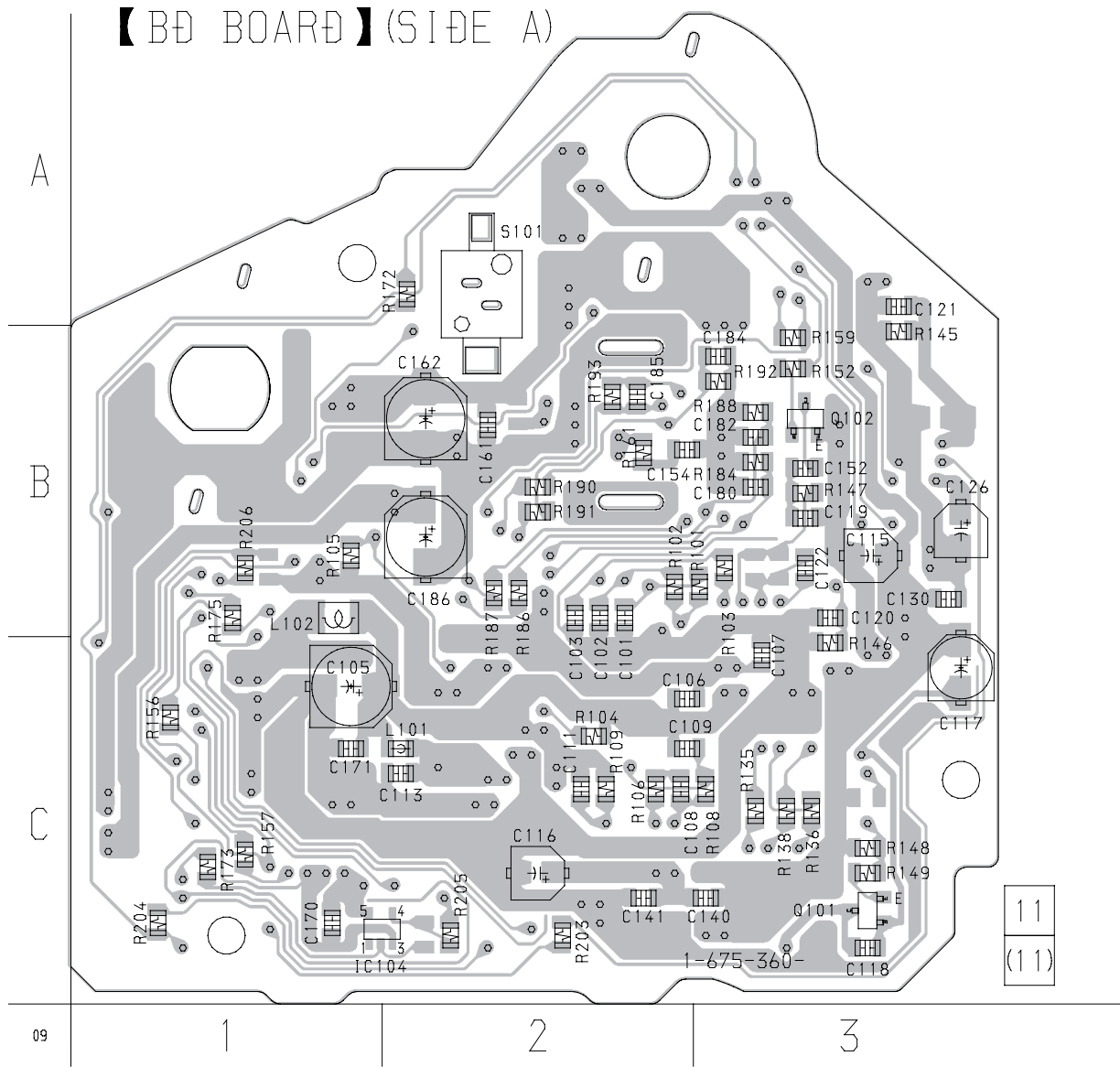


– PANEL (1/2) SECTION –



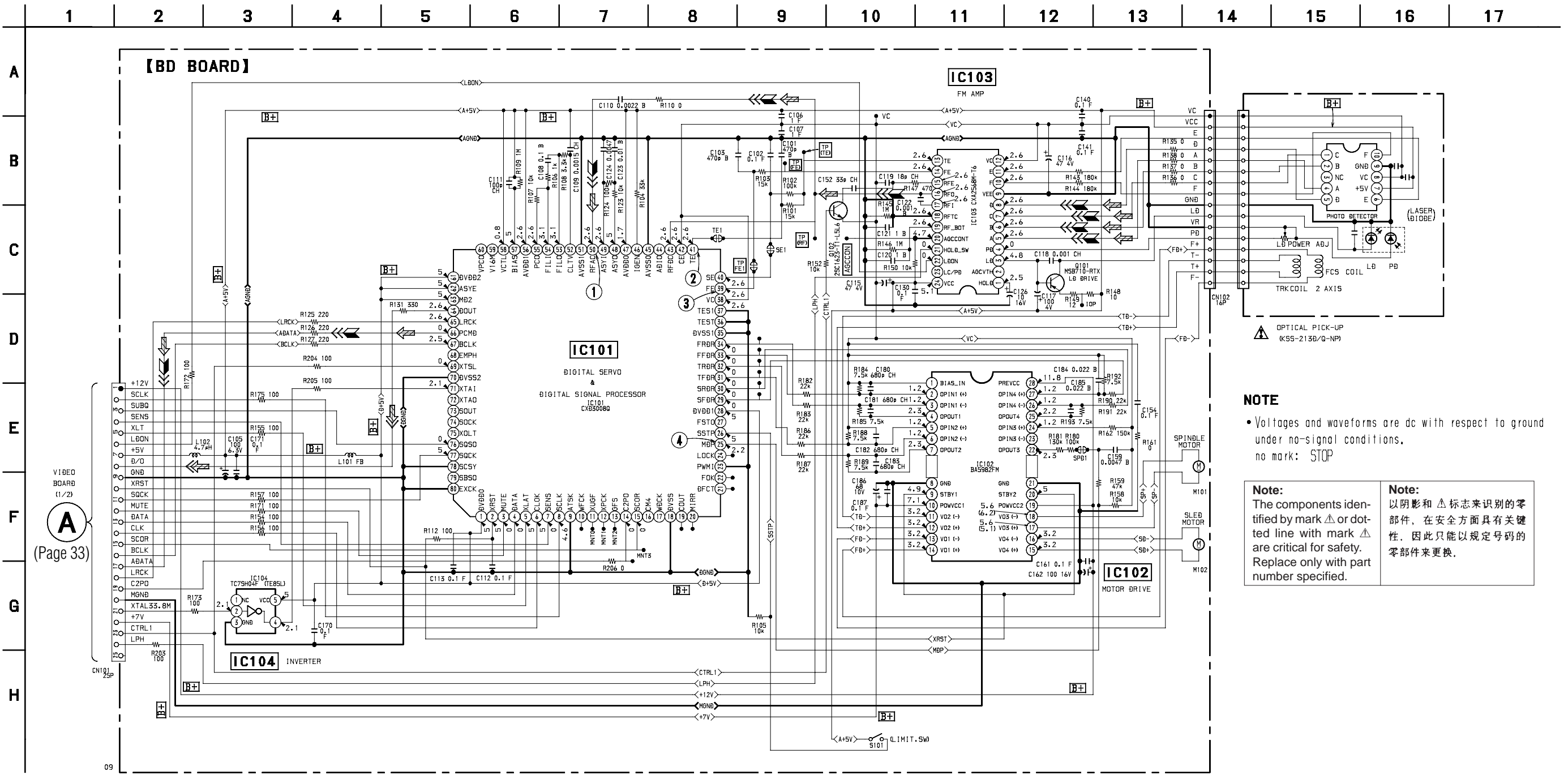
6-3. PRINTED WIRING BOARD – BD SECTION –

- See page 20 for Circuit Boards Location.



6-4. SCHEMATIC DIAGRAM – BD SECTION –

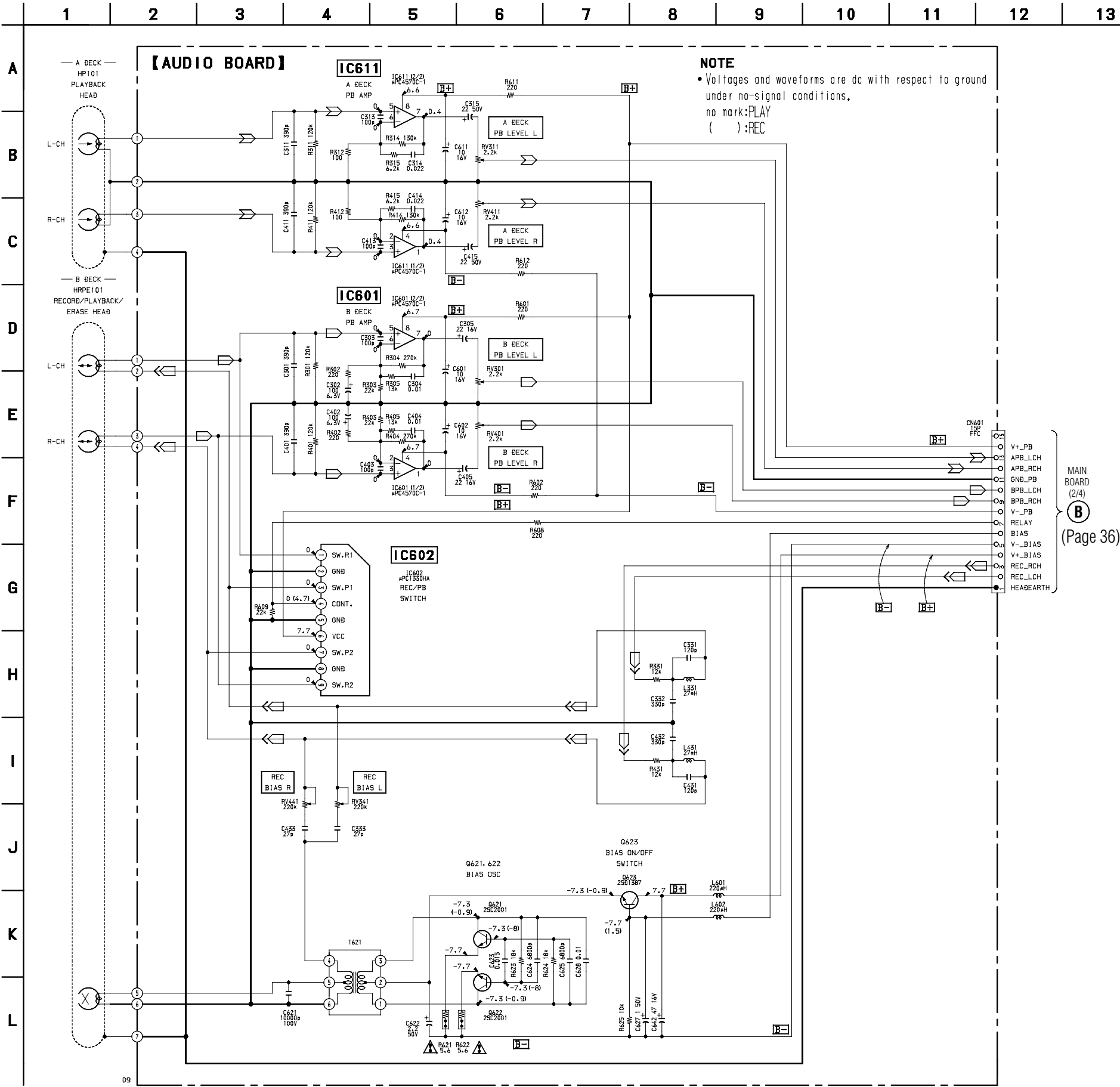
- See page 27 for Waveforms.
- See page 50 for IC Block Diagrams.
- See page 52 for IC Pin Functions.



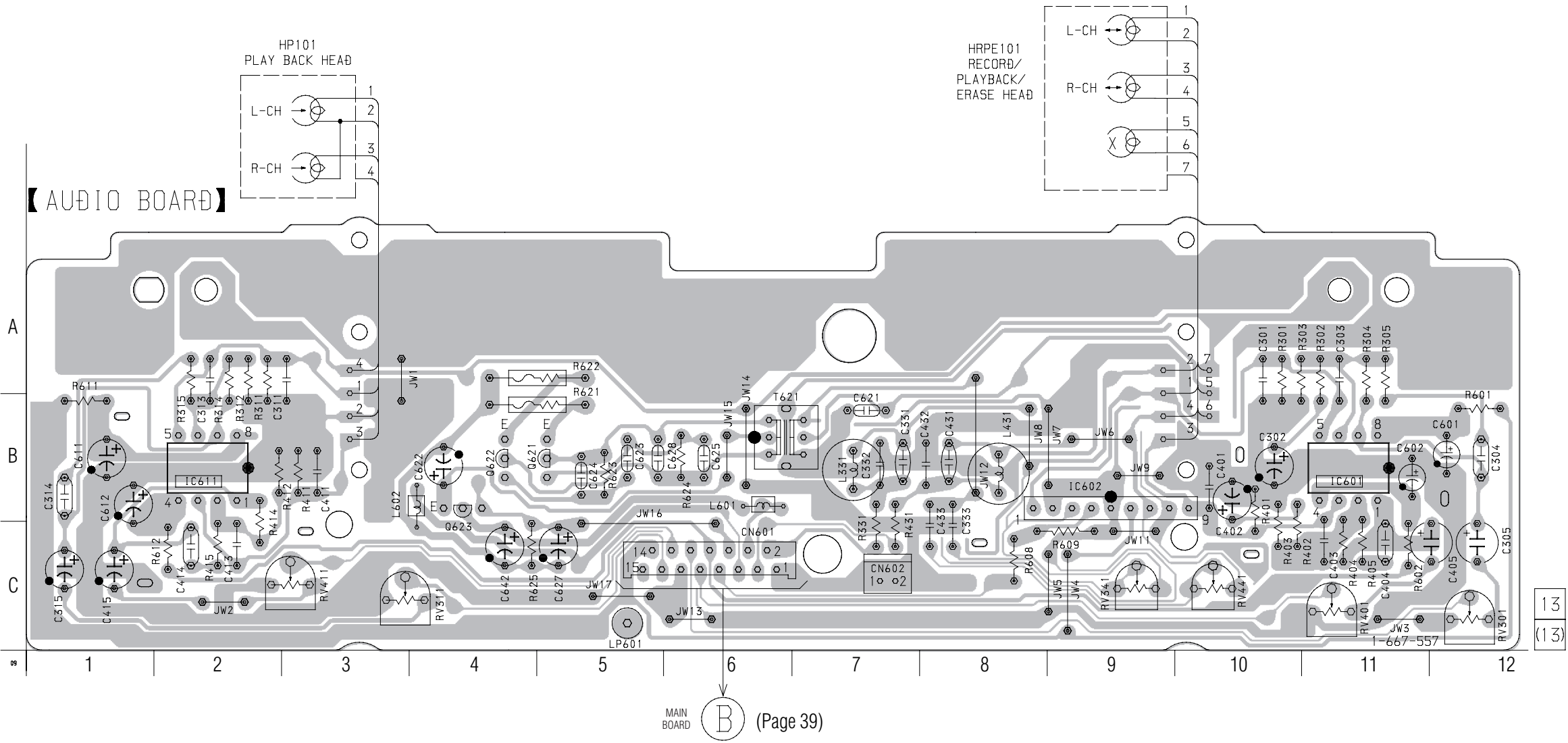
6-5. SCHEMATIC DIAGRAM – DECK SECTION –
• See page 50 for IC Block Diagrams.

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

Note:
以阴影和 \triangle 标志来识别的零部件，在安全方面具有关键性。因此只能以规定号码的零部件来更换。

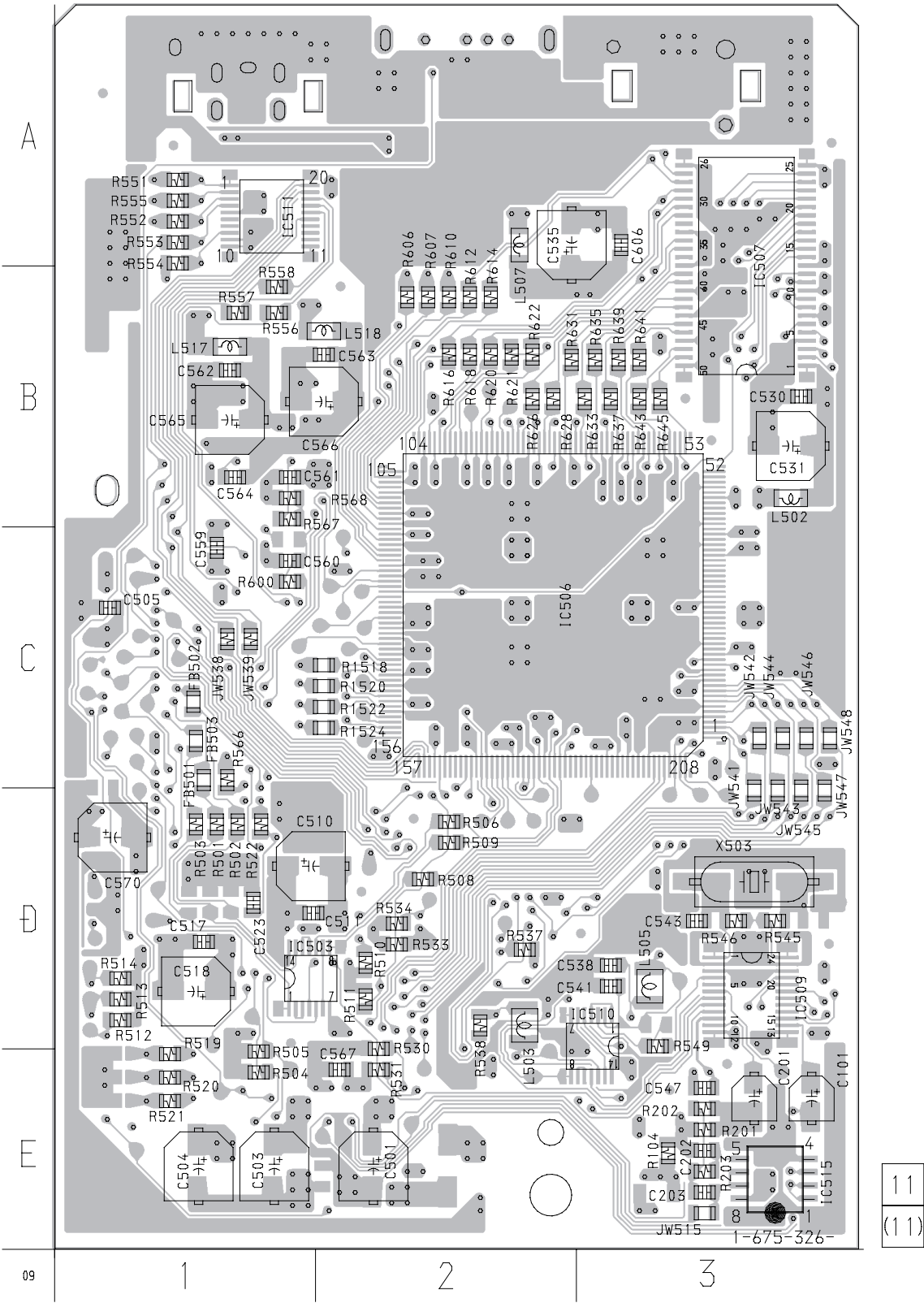


6-6. PRINTED WIRING BOARD – DECK SECTION –
• See page 20 for Circuit Boards Location.



6-7. PRINTED WIRING BOARD – VIDEO SECTION –
• See page 20 for Circuit Boards Location.

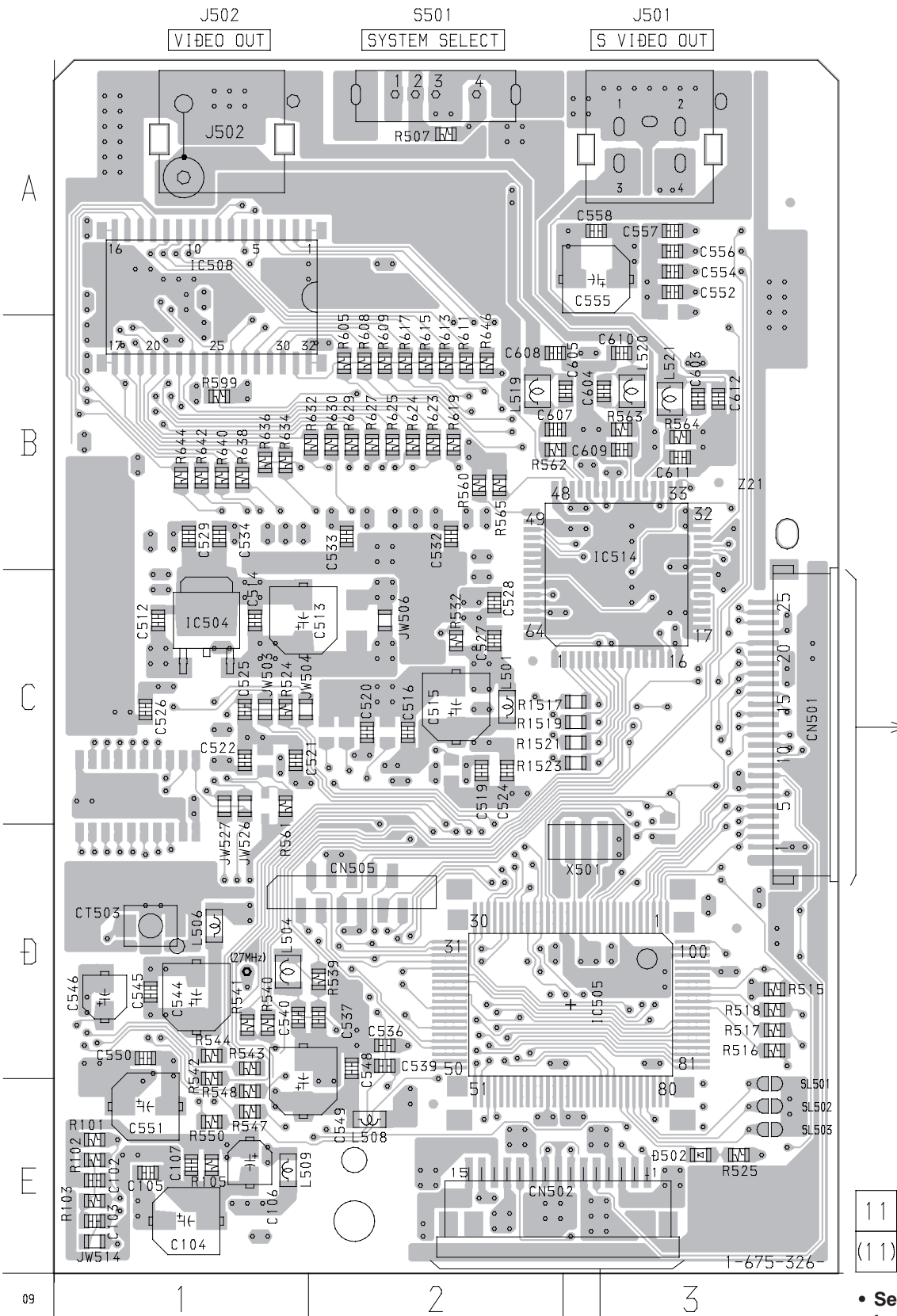
【 VIDEO BOARD 】 (SIDE A)



• Semiconductor Location

Ref. No.	Location
IC503	D-1
IC506	C-2
IC507	B-3
IC509	D-3
IC510	E-3
IC511	A-1
IC515	E-3

【 VIDEO BOARD 】 (SIDE B)

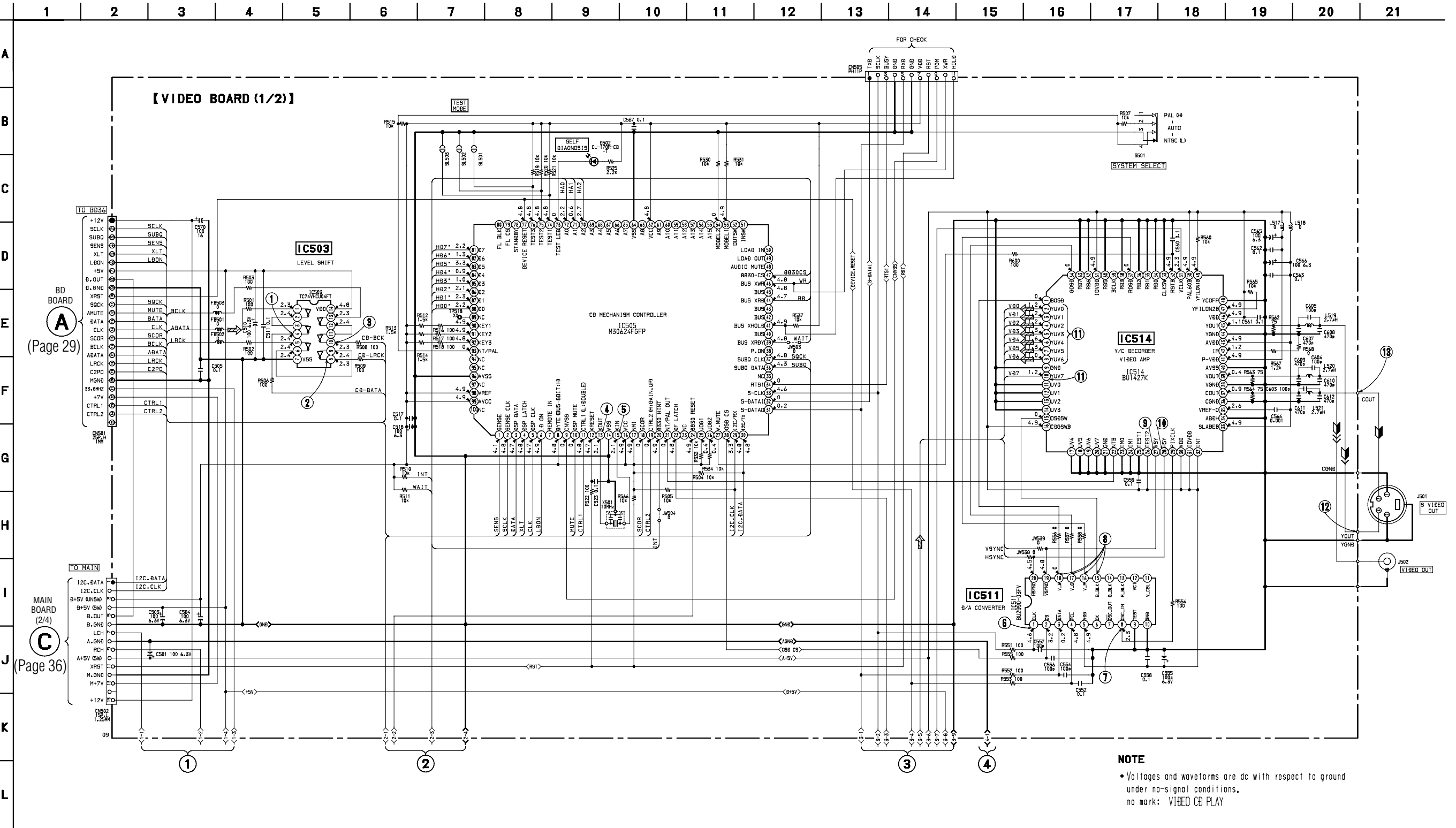


• Semiconductor Location

Ref. No.	Location
D502	E-3
IC504	C-1
IC505	D-3
IC508	A-1
IC514	C-3

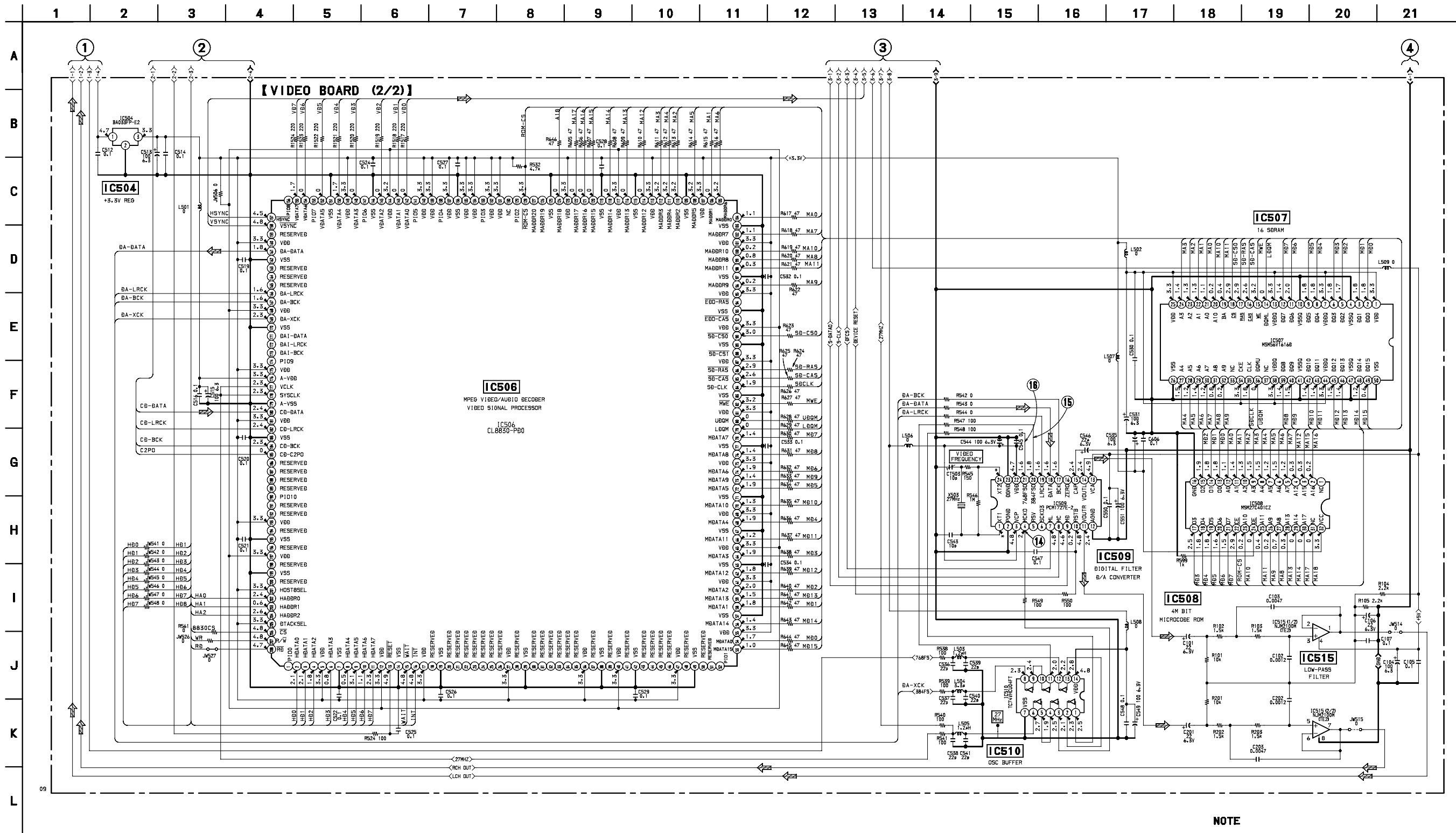
6-8. SCHEMATIC DIAGRAM – VIDEO (1/2) SECTION –

- See page 27 for Waveforms.
- See page 54 for IC Pin Functions.



6-9. SCHEMATIC DIAGRAM – VIDEO (2/2) SECTION –

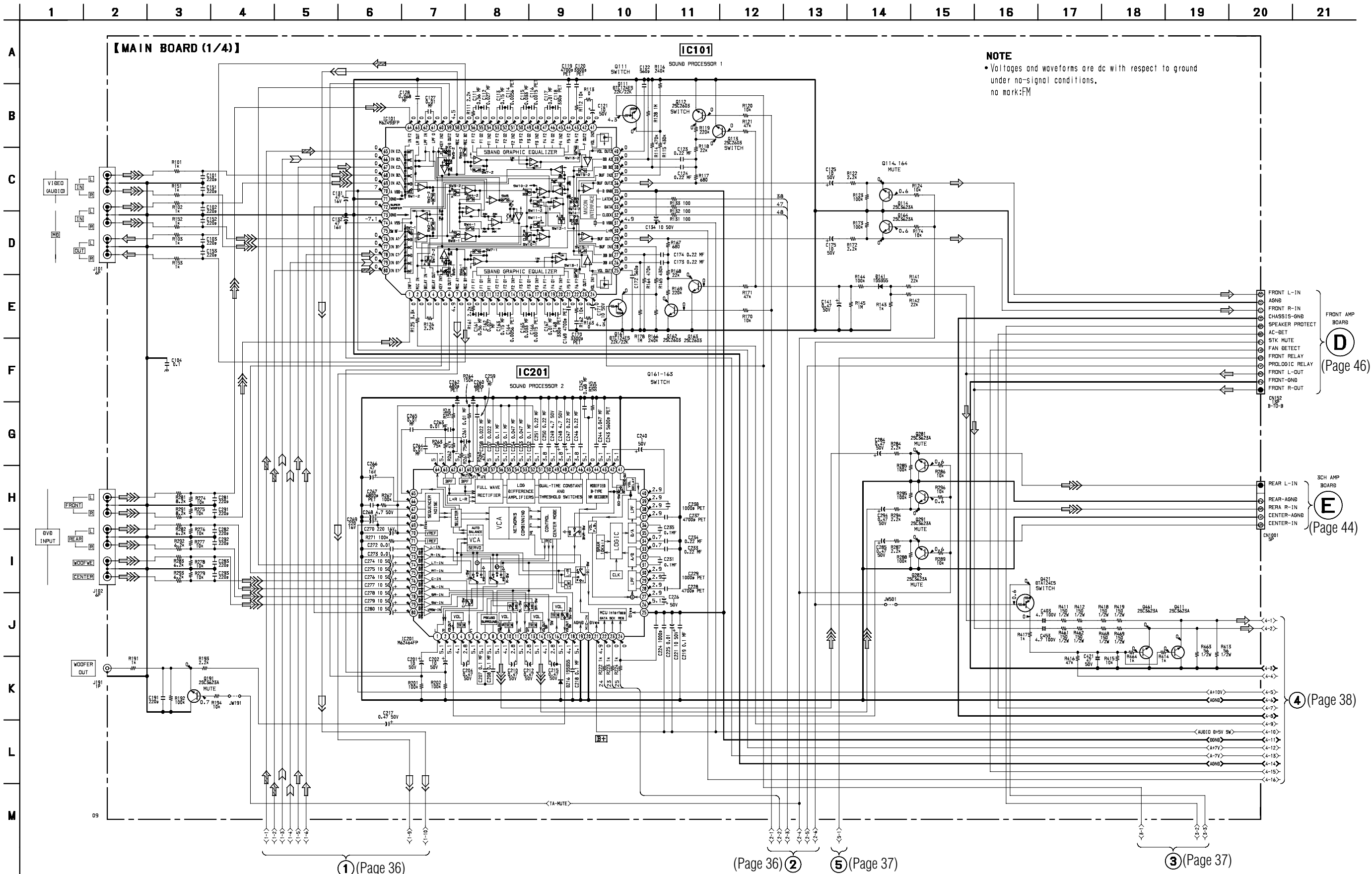
- See page 27 for Waveforms.
- See page 32 for Printed Wiring Board.
- See page 50 for IC Block Diagrams.
- See page 56 for IC Pin Functions.



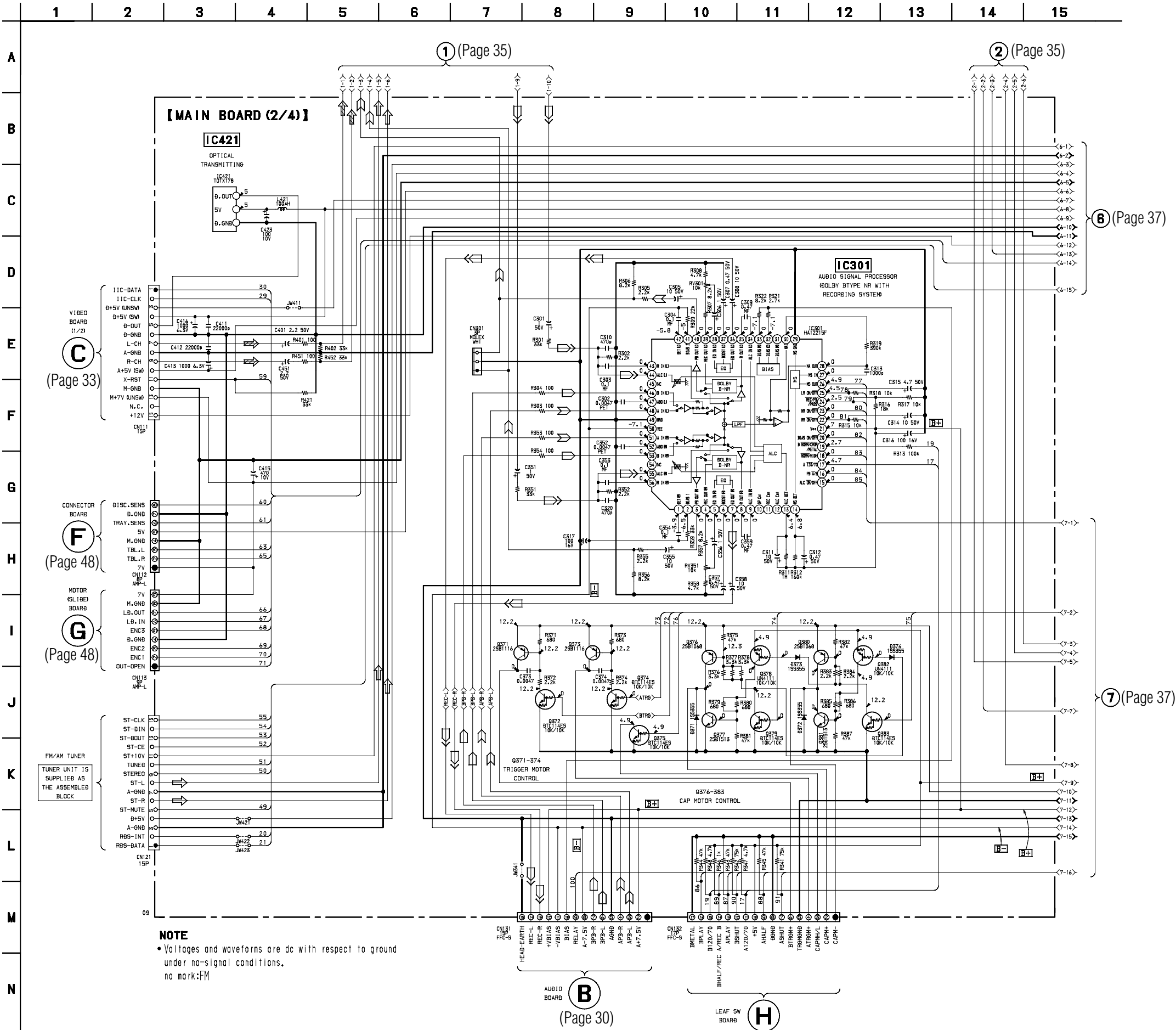
NOTE

- Voltages and waveforms are dc with respect to ground under no-signal conditions.
no mark: VIDEO CD PLAY
* : Impossible to measur

6-10. SCHEMATIC DIAGRAM – MAIN (1/4) SECTION –
• See page 20 for Printed Wiring Board.

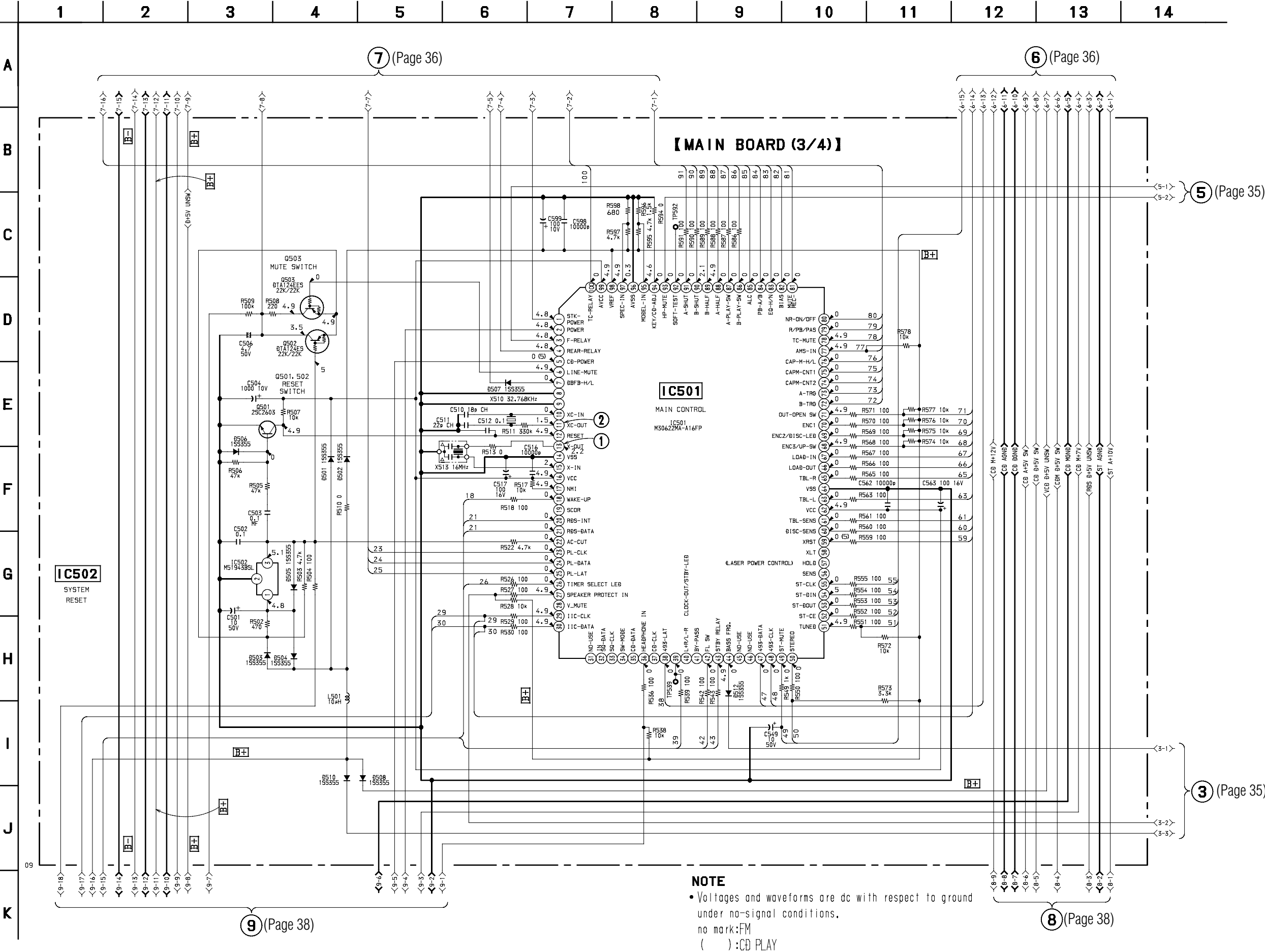


6-11. SCHEMATIC DIAGRAM – MAIN (2/4) SECTION –
• See page 39 for Printed Wiring Board.

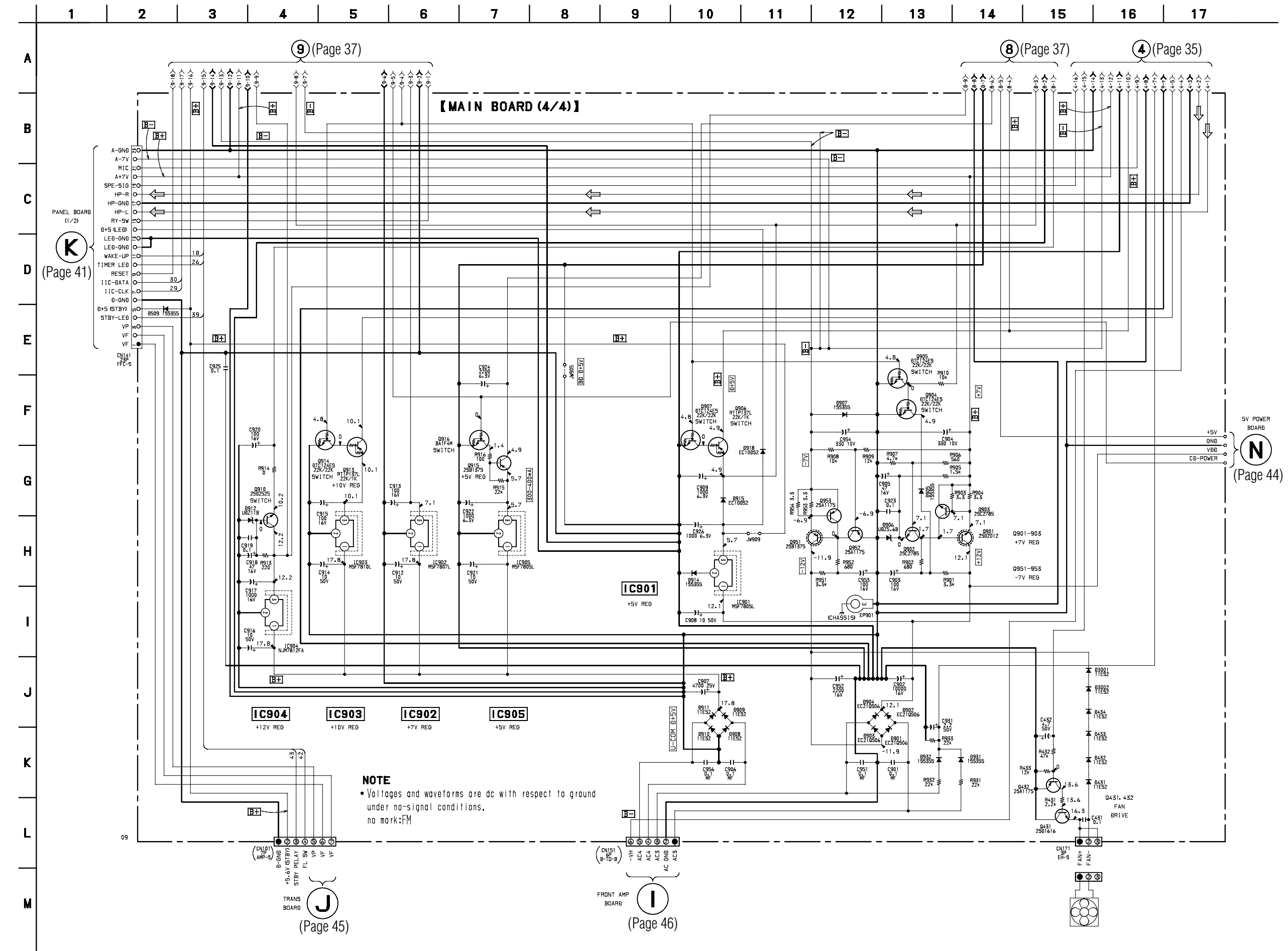


6-12. SCHEMATIC DIAGRAM – MAIN (3/4) SECTION –

- See page 27 for Waveforms.
- See page 39 for Printed Wiring Board.
- See page 60 for IC Pin Functions.



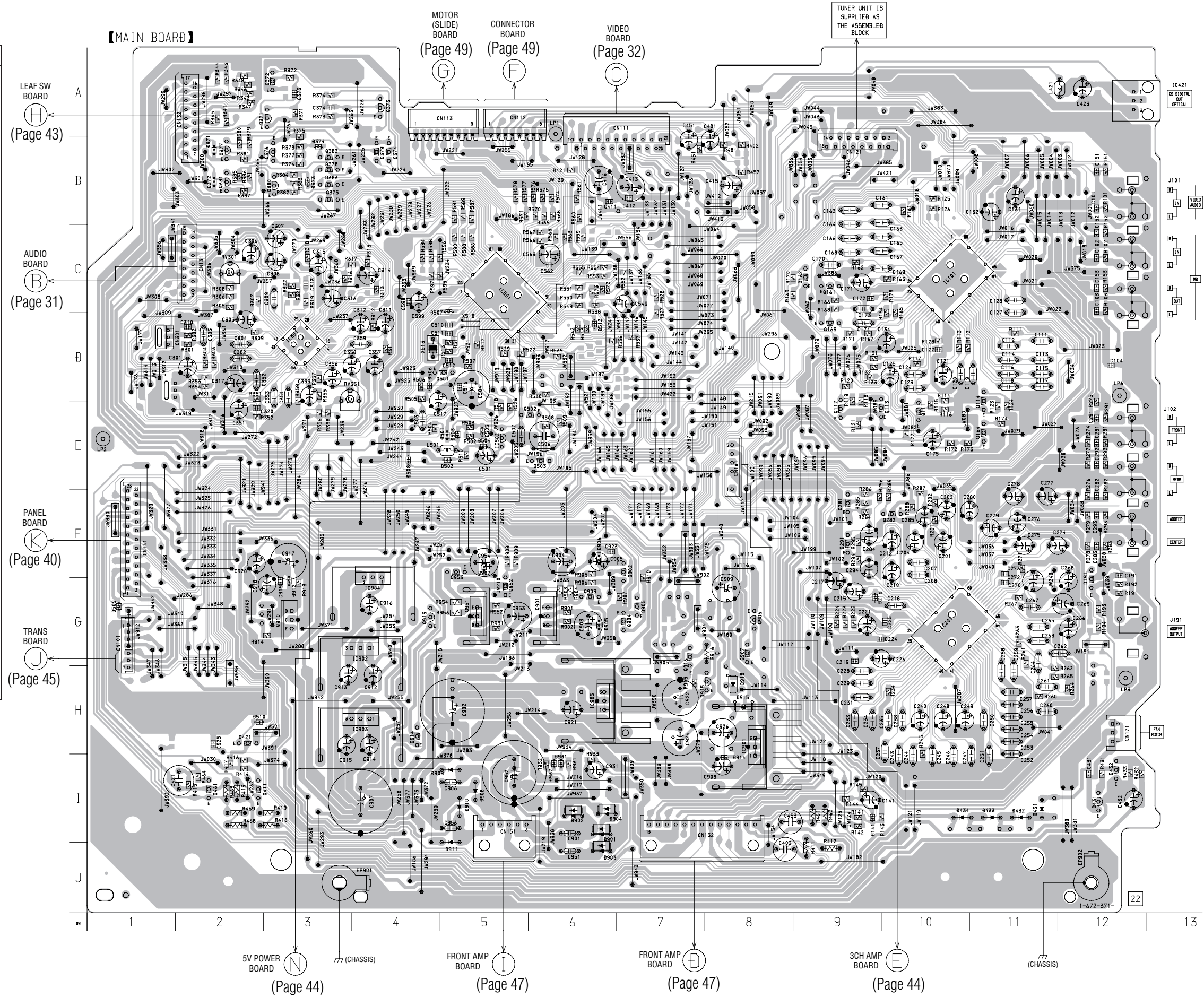
6-13. SCHEMATIC DIAGRAM – MAIN (4/4) SECTION –



6-14. PRINTED WIRING BOARD – MAIN SECTION –
• See page 20 for Circuit Boards Location.

• Semiconductor Location

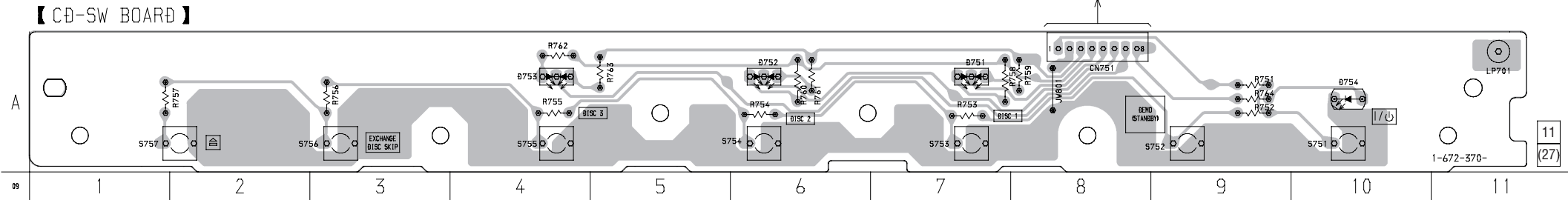
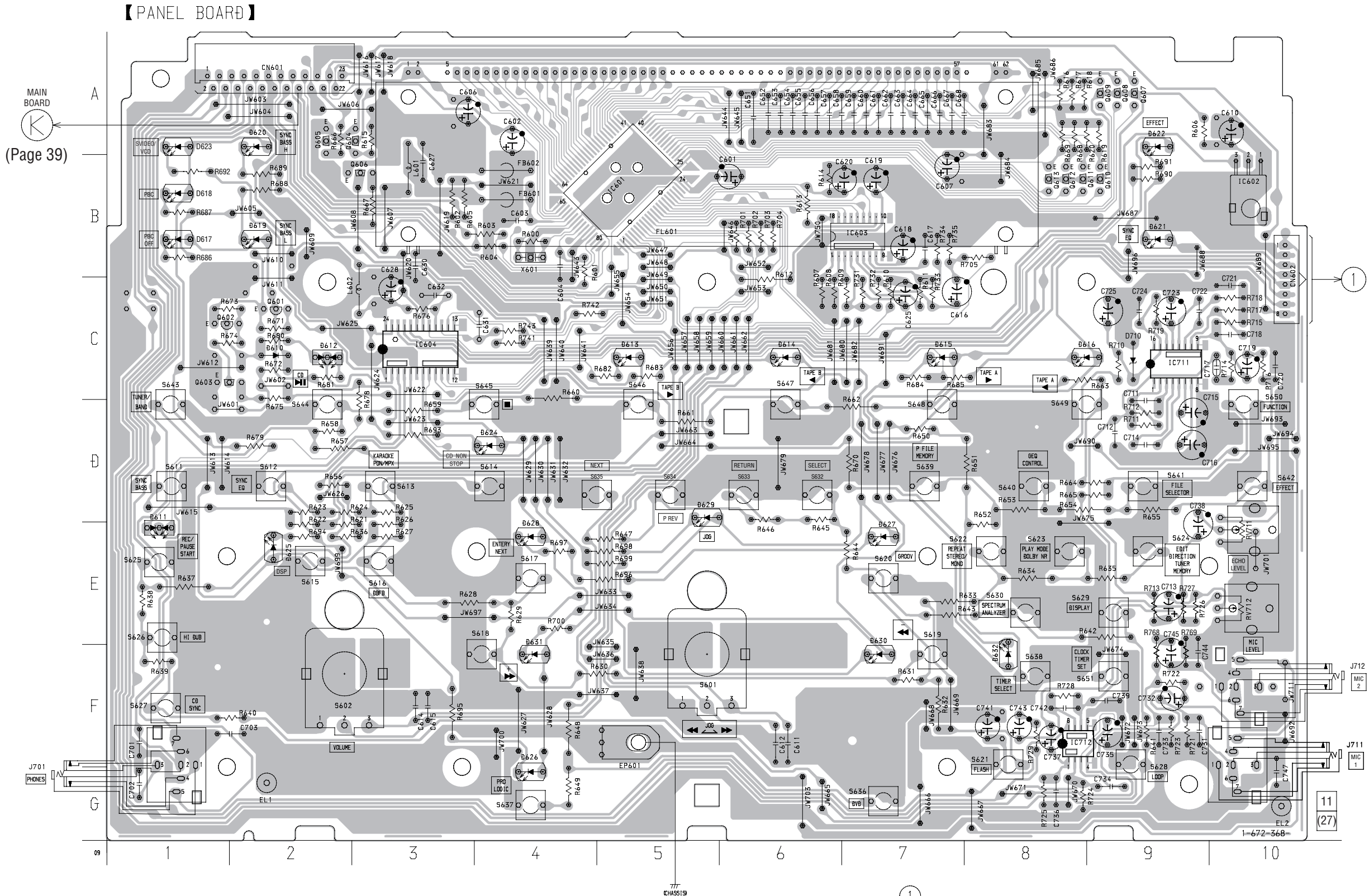
Ref. No.	Location	Ref. No.	Location
D141	I-9	IC905	H-6
D371	B-2	Q111	E-10
D372	B-2	Q112	E-9
D373	B-3	Q113	E-10
D374	B-3	Q114	E-11
D431	I-11	Q161	C-9
D432	I-11	Q162	C-9
D433	I-11	Q163	D-9
D434	I-10	Q164	E-11
D501	E-5	Q191	G-11
D502	E-5	Q281	F-9
D503	E-5	Q282	F-10
D504	E-5	Q291	F-9
D505	E-5	Q371	A-3
D506	D-4	Q372	A-3
D507	C-5	Q373	A-4
D508	E-4	Q374	B-4
D509	G-1	Q375	B-3
D510	H-2	Q376	B-3
D512	D-6	Q377	B-2
D901	I-6	Q378	B-3
D902	I-6	Q379	B-4
D903	J-6	Q380	B-3
D904	I-6	Q381	B-2
D905	G-6	Q382	B-3
D906	F-6	Q383	B-3
D907	F-5	Q411	I-2
D908	I-5	Q421	H-2
D909	I-5	Q431	I-12
D910	I-5	Q432	I-12
D911	J-5	Q461	I-2
D912	G-3	Q501	D-5
D914	I-8	Q502	E-6
D915	H-8	Q503	E-6
D918	H-8	Q901	G-6
D931	I-6	Q902	F-7
D932	I-6	Q903	G-6
D3001		Q904	G-7
		Q905	G-7
IC101	C-10	Q906	G-8
IC201	G-10	Q907	G-8
IC301	D-3	Q910	G-3
IC421	A-13	Q913	G-4
IC501	C-5	Q914	H-4
IC502	E-5	Q915	H-8
IC901	H-8	Q916	G-7
IC902	G-4	Q951	G-5
IC903	H-4	Q952	G-5
IC904	F-4	Q953	F-5



6-15. PRINTED WIRING BOARD – PANEL SECTION –
• See page 20 for Circuit Boards Location.

• Semiconductor
Location

Ref. No.	Location
D610	C-2
D611	D-1
D612	C-2
D613	C-5
D614	C-6
D615	C-7
D616	C-9
D617	B-1
D618	B-1
D619	B-2
D620	A-2
D621	B-9
D622	A-9
D623	A-1
D624	D-4
D625	E-2
D626	F-4
D627	E-7
D628	E-4
D629	D-5
D630	E-7
D631	E-4
D632	F-8
D710	C-9
IC601	B-5
IC602	B-10
IC603	B-7
IC604	C-3
IC711	C-9
IC712	F-8
Q601	C-2
Q602	C-1
Q603	C-1
Q604	A-2
Q605	A-2
Q606	B-3
Q607	A-9
Q608	A-9
Q609	A-9
Q610	B-9
Q611	B-9
Q612	B-8
Q613	B-8

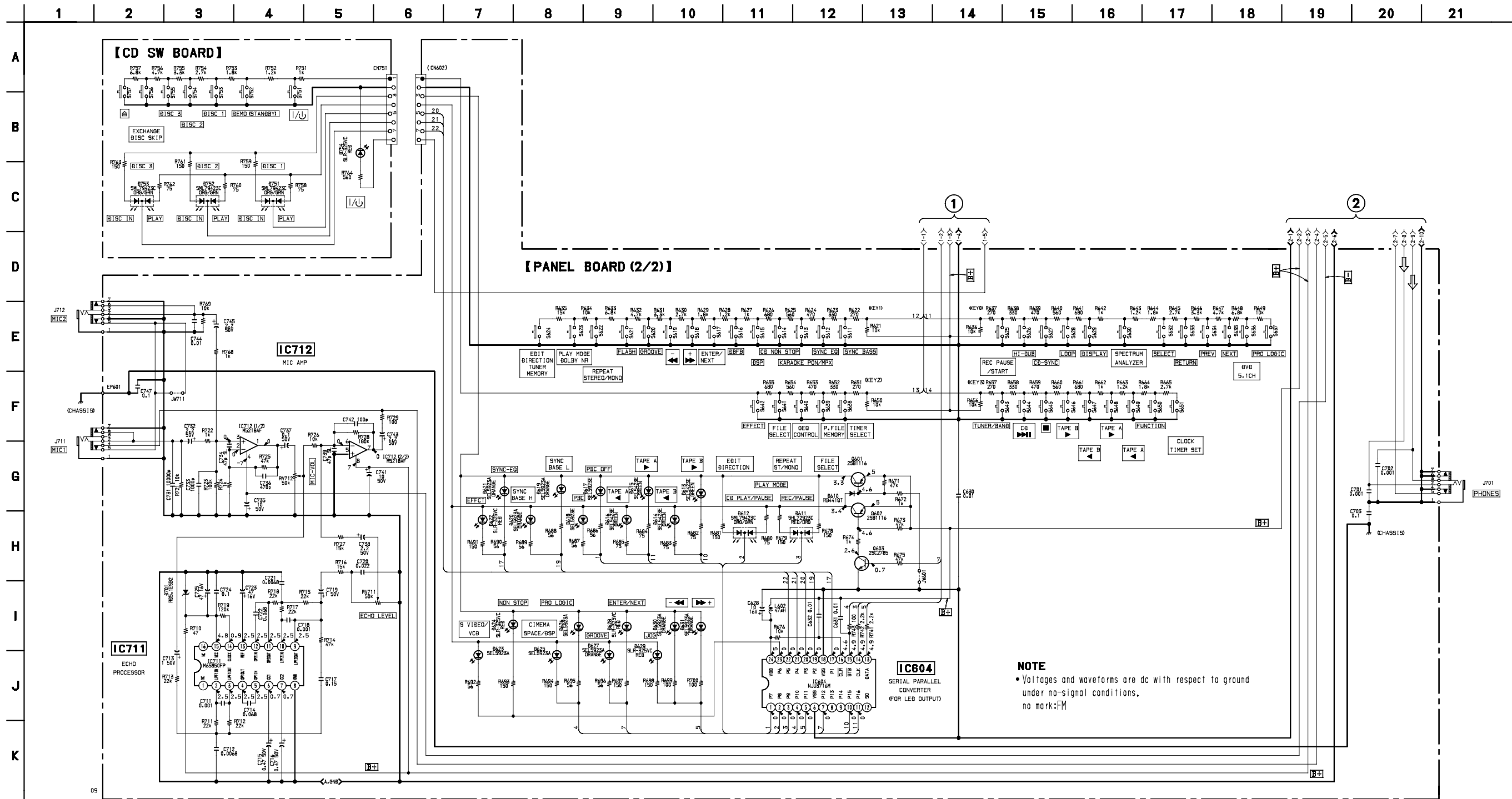


- See page 27 for Waveforms.
- See page 50 for IC Block Diagrams.
- See page 62 for IC Pin Functions.

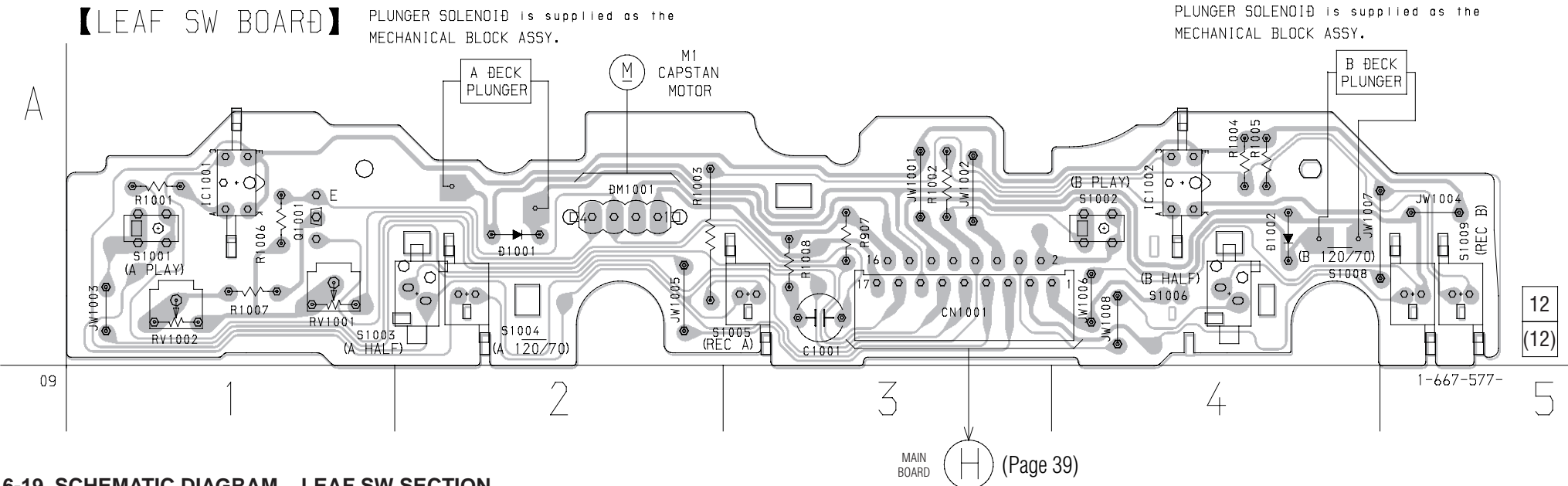


6-17. SCHEMATIC DIAGRAM – PANEL (2/2) SECTION –

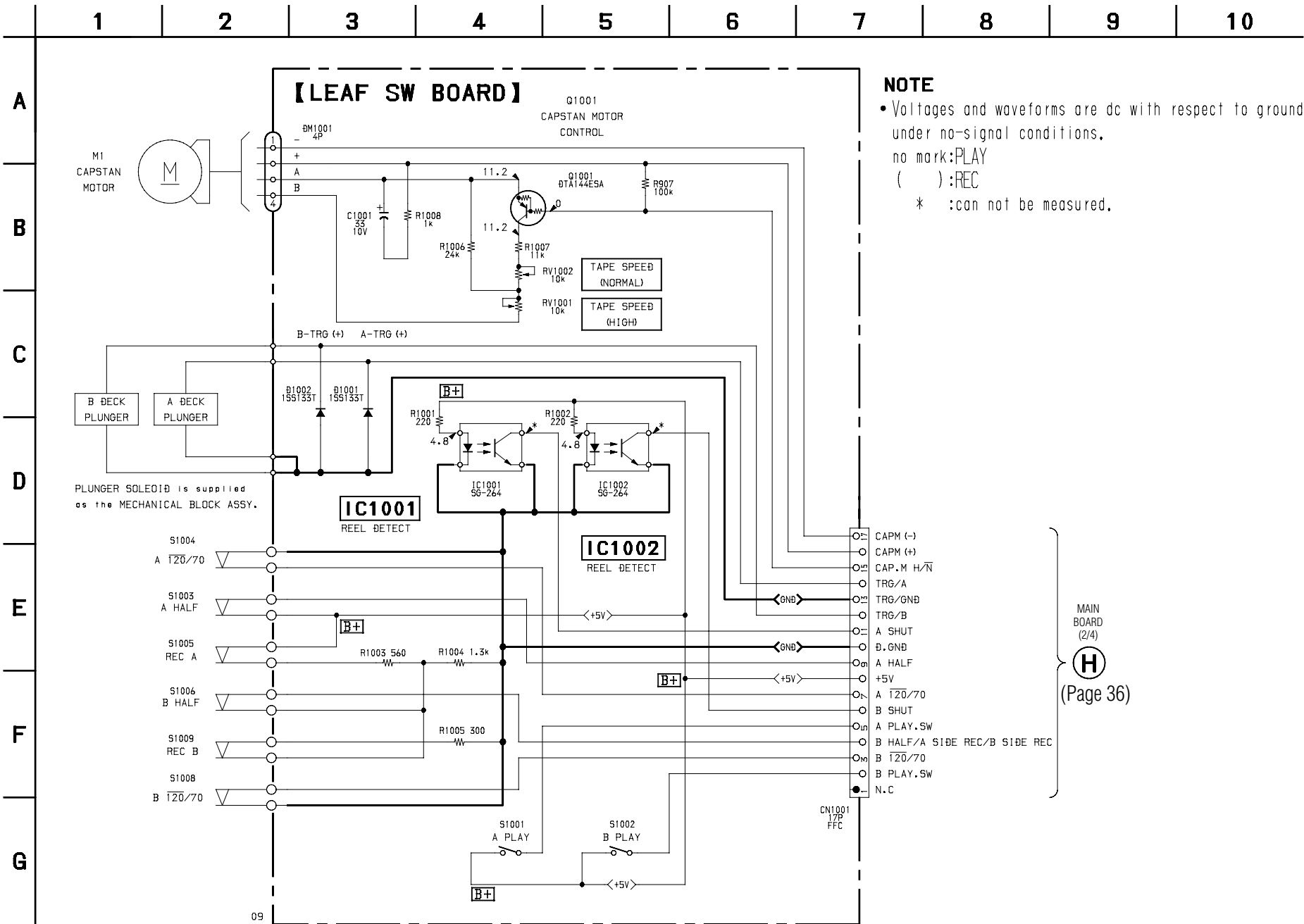
- See page 40 for Printed Wiring Board.
- See page 51 for IC Block Diagrams.



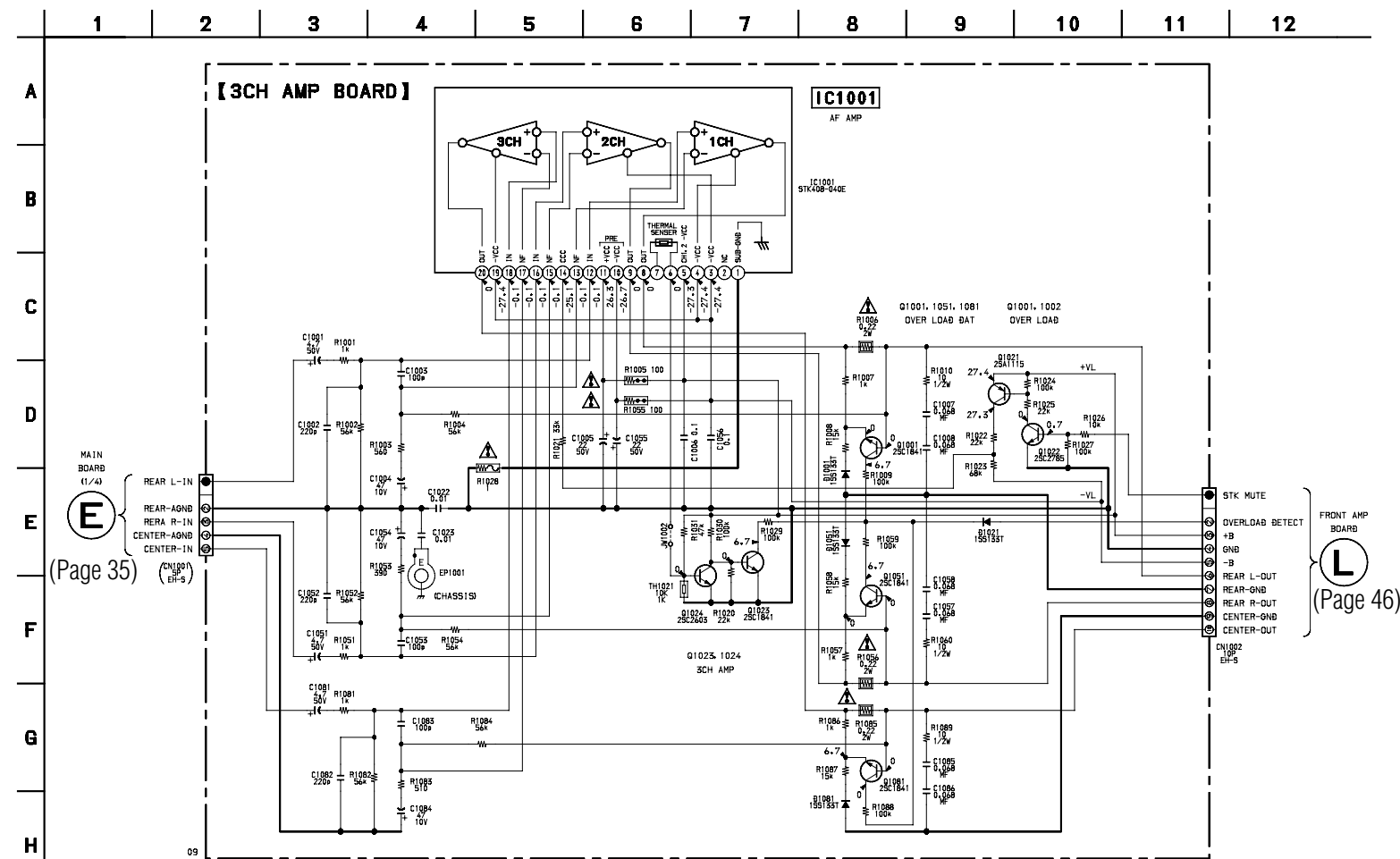
6-18. PRINTED WIRING BOARD – LEAF SW SECTION –
• See page 20 for Circuit Boards Location.






6-19. SCHEMATIC DIAGRAM – LEAF SW SECTION –

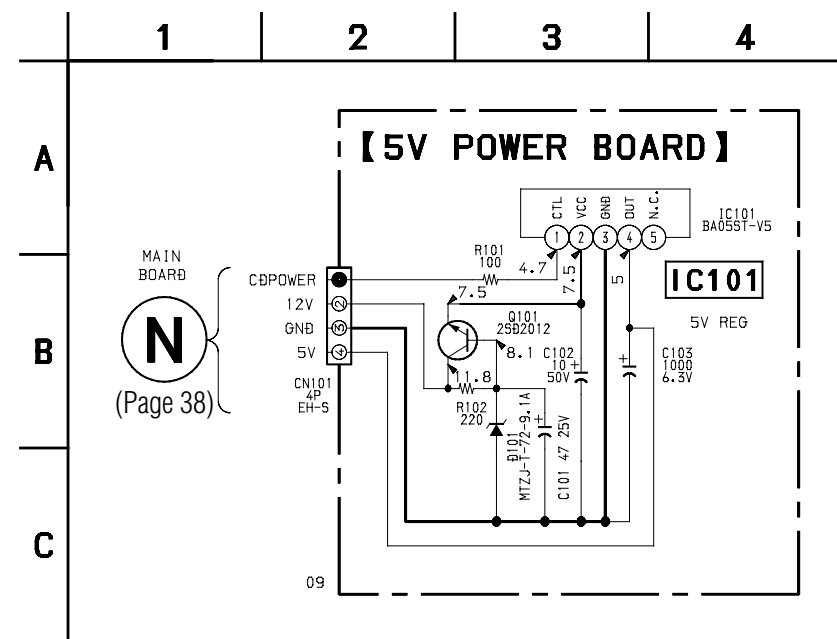


6-20. SCHEMATIC DIAGRAM – SURROUND SECTION –

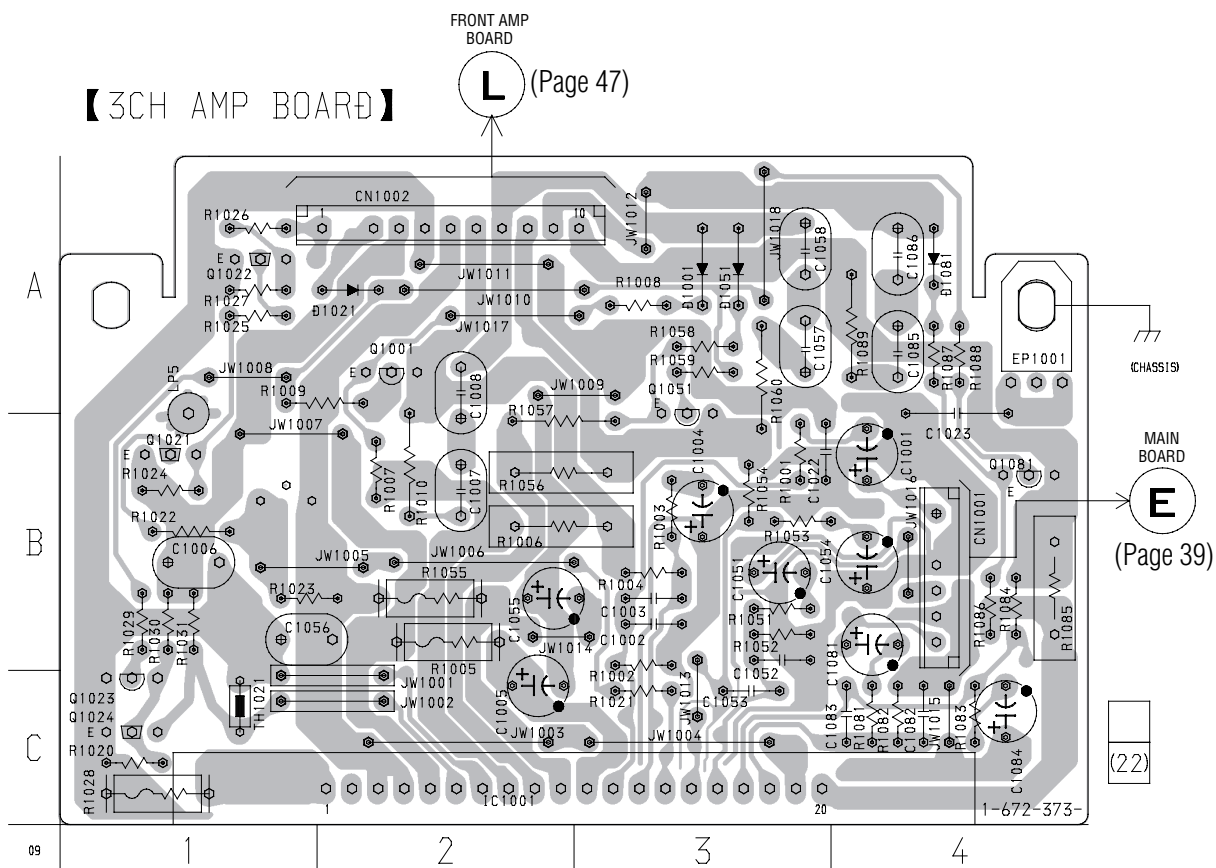


<p>Note: The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.</p>	<p>Note: 以阴影和  标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。</p>
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6-22. SCHEMATIC DIAGRAM – POWER SECTION –



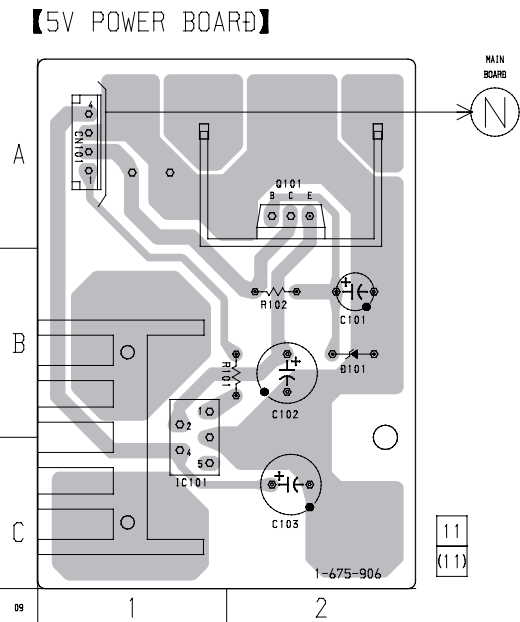
6-21. PRINTED WIRING BOARD – SURROUND SECTION –
• See page 20 for Circuit Boards Location.



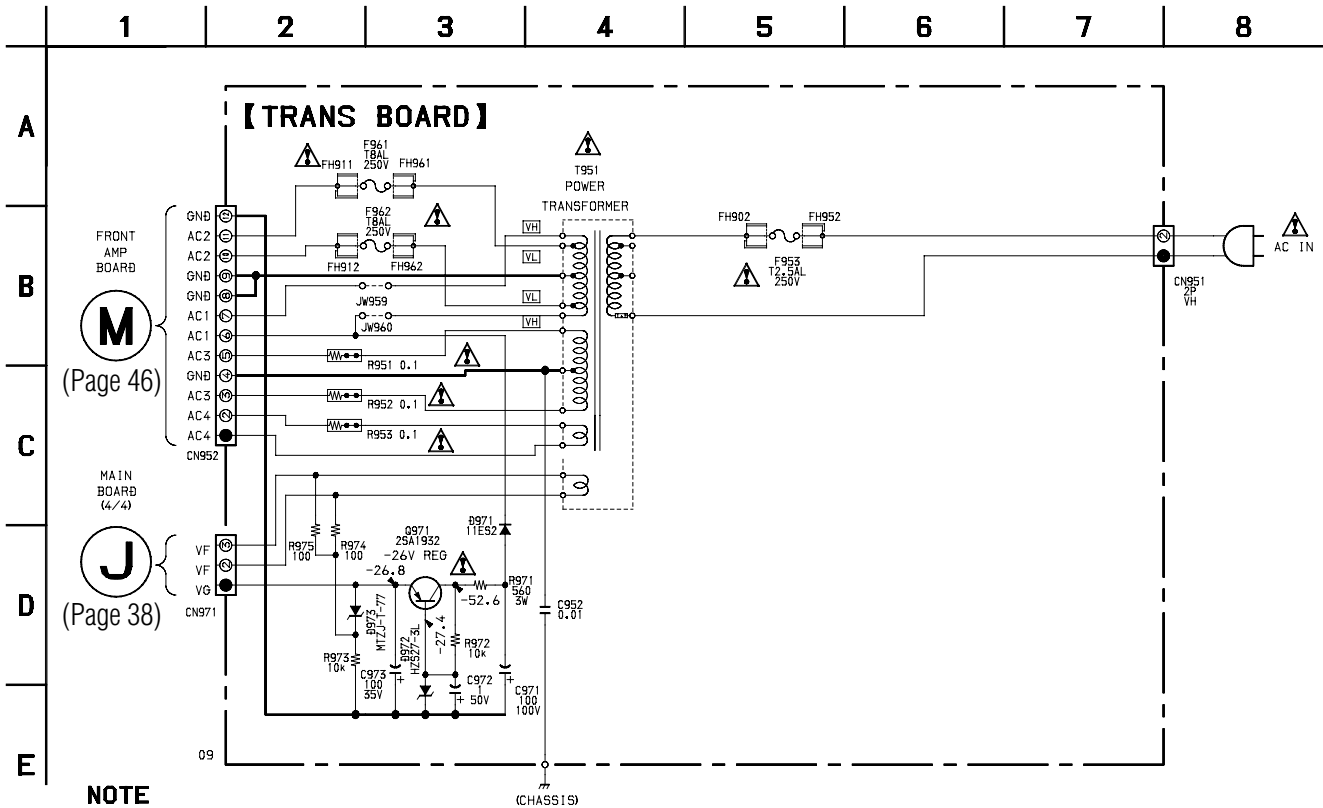
- **Semiconductor Location**

Ref. No.	Location
D1001	A-3
D1021	A-2
D1051	A-3
D1081	A-4
IC1001	C-2
Q1001	A-2
Q1021	B-1
Q1022	A-1
Q1023	C-1
Q1024	C-1
Q1051	B-3
Q1081	B-4

6-23. PRINTED WIRING BOARD – POWER SECTION –
 • See page 20 for Circuit Boards Location.



6-24. SCHEMATIC DIAGRAM – TRANS SECTION –



NOTE

• Voltages and waveforms are dc with respect to ground under no-signal conditions.
no mark:FM

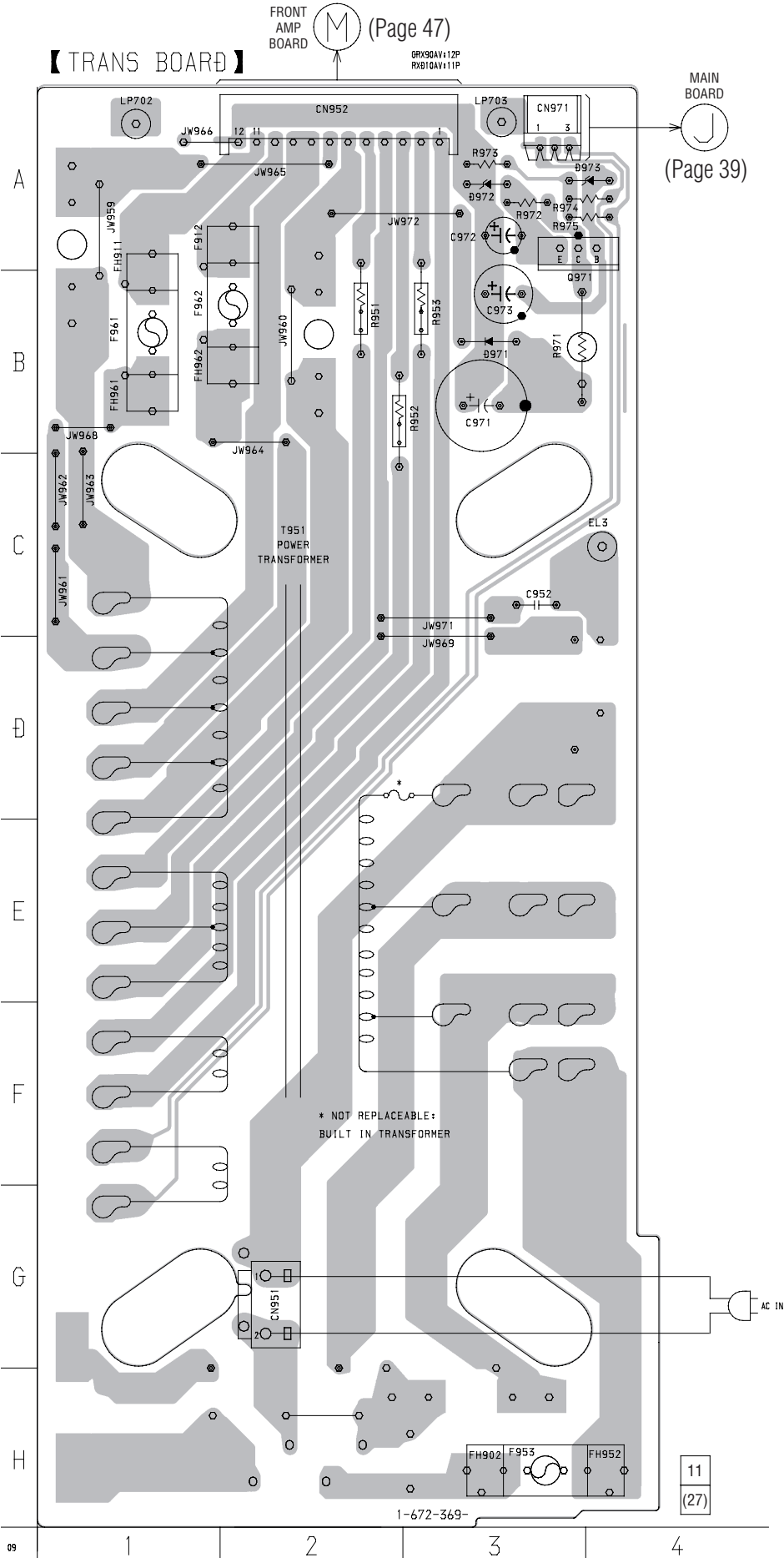
Note:

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

Note:

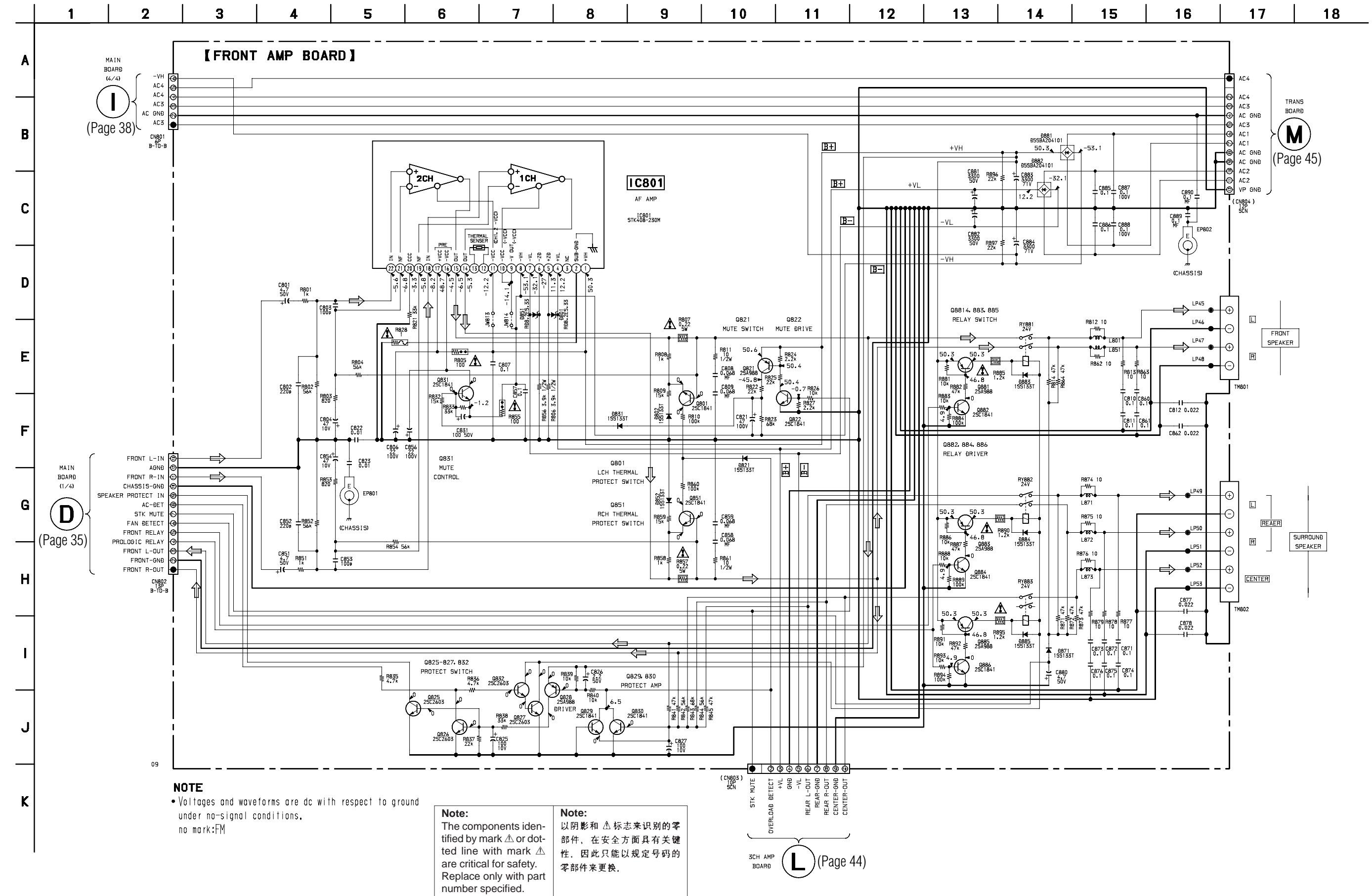
以阴影和 \triangle 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

6-25. PRINTED WIRING BOARD – TRANS SECTION –
• See page 20 for Circuit Boards Location.



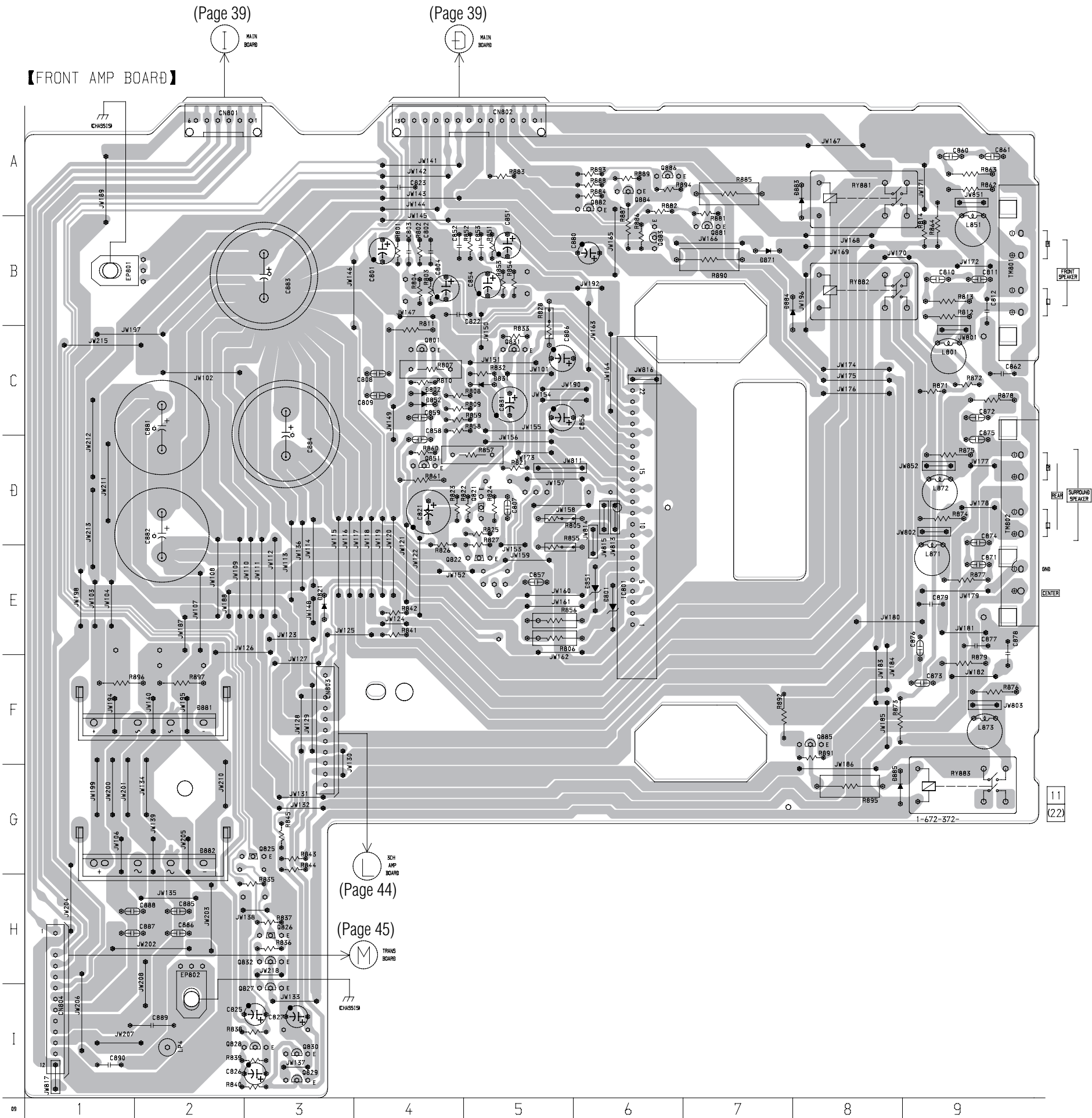
* NOT REPLACEABLE:
BUILT IN TRANSFORMER

6-26. SCHEMATIC DIAGRAM – FRONT AMP SECTION –



6-27. PRINTED WIRING BOARD – FRONT AMP SECTION –

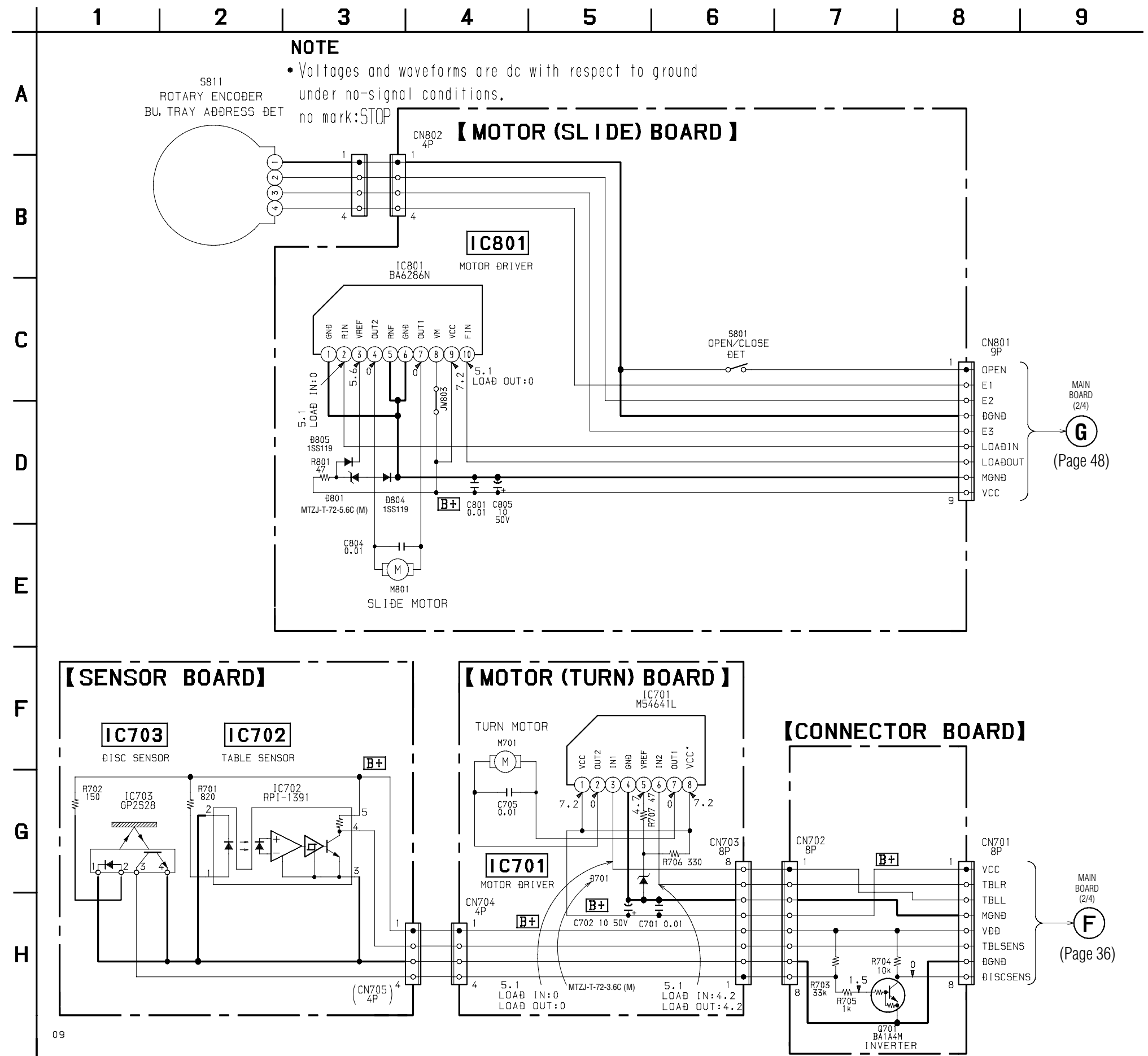
• See page 20 for Circuit Boards Location.



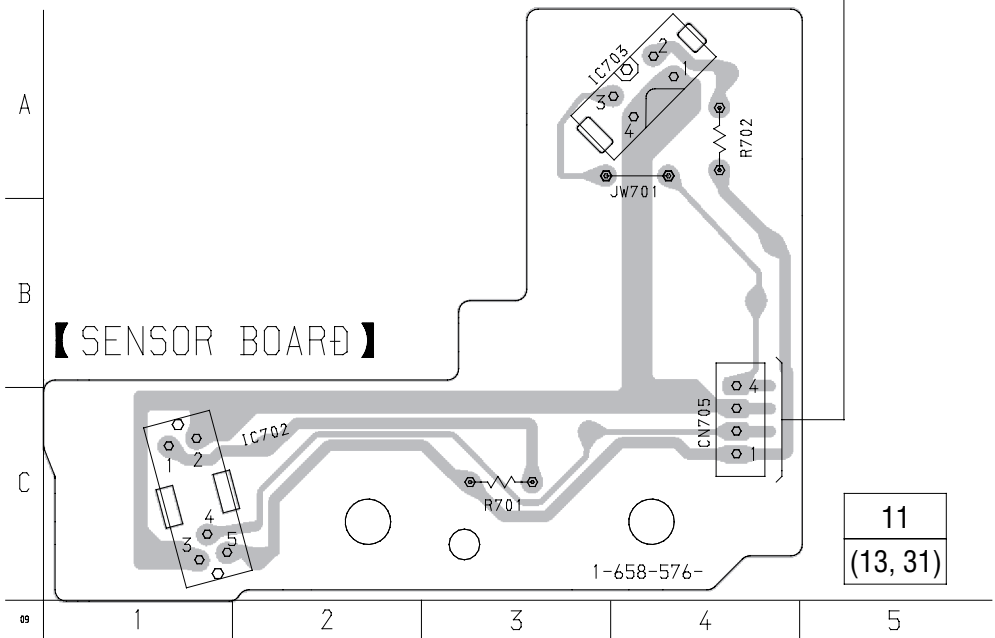
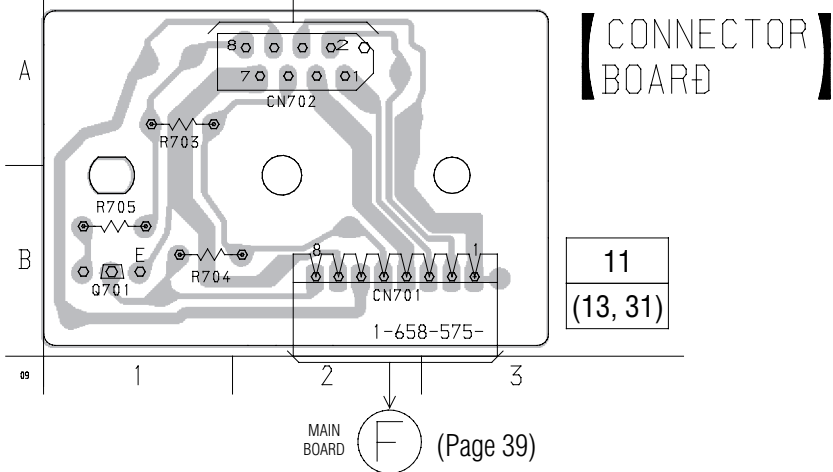
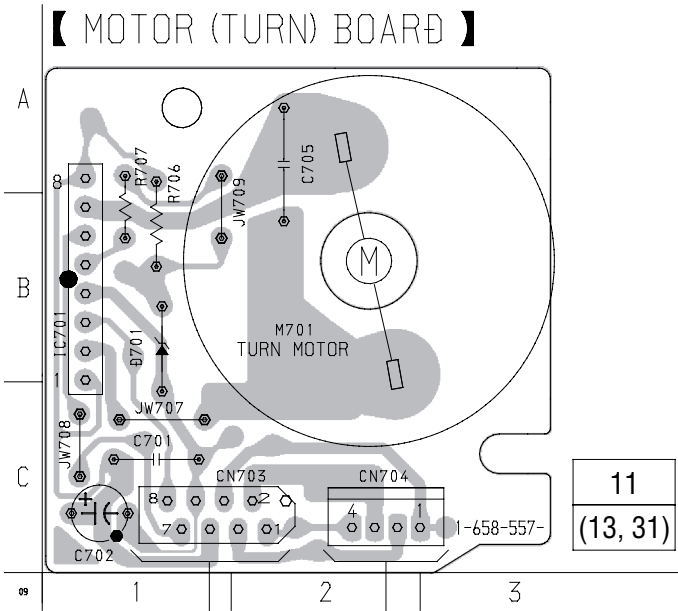
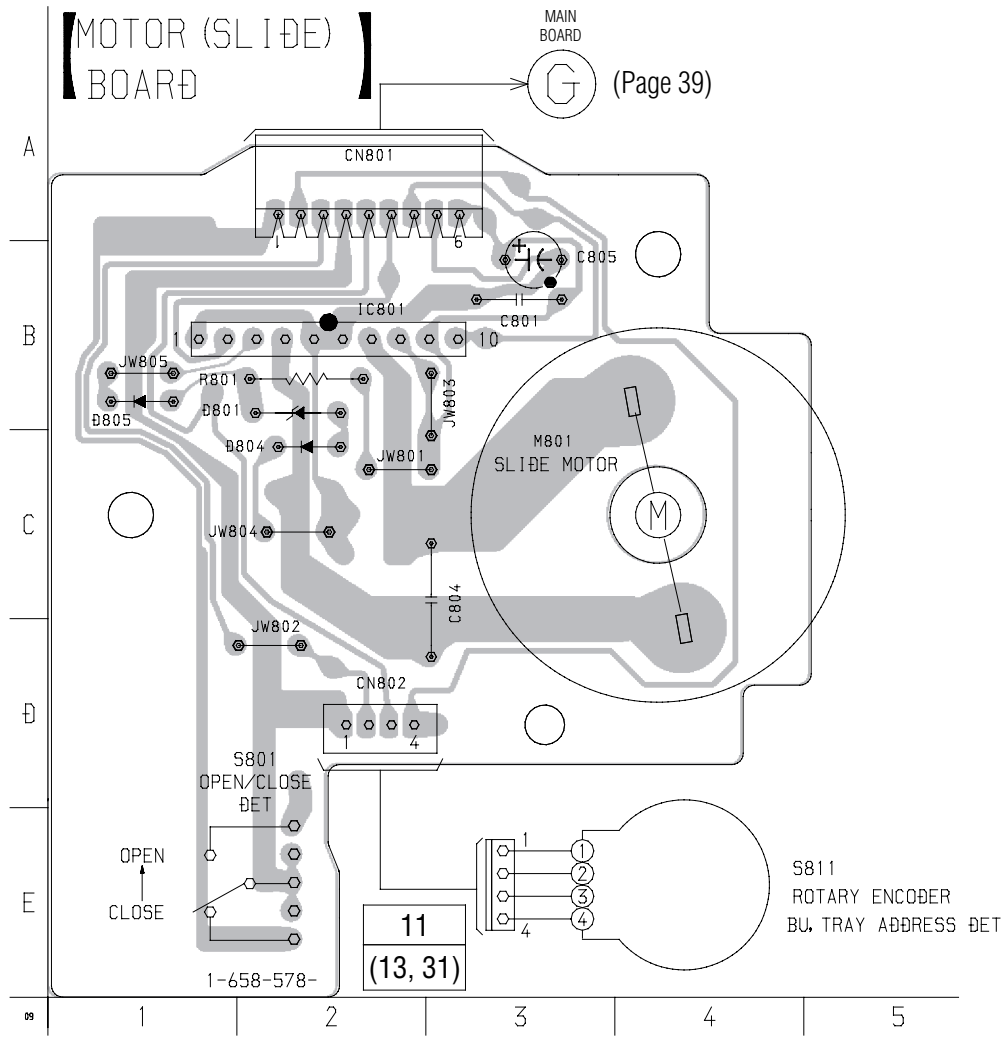
• Semiconductor Location

Ref. No.	Location
D801	E-6
D802	C-4
D821	E-3
D831	C-5
D851	E-6
D852	C-4
D871	B-7
D881	F-2
D882	G-2
D883	B-7
D884	B-7
D885	G-8
IC801	E-6
Q801	C-4
Q821	D-5
Q822	E-5
Q825	G-3
Q826	H-3
Q827	I-3
Q828	I-3
Q829	I-3
Q830	I-3
Q831	C-5
Q832	H-3
Q851	D-4
Q881	B-7
Q882	B-6
Q883	B-6
Q884	A-6
Q885	F-8
Q886	A-6

6-28. SCHEMATIC DIAGRAM – CD MOTOR SECTION –
 • See page 51 for IC Block Diagrams.



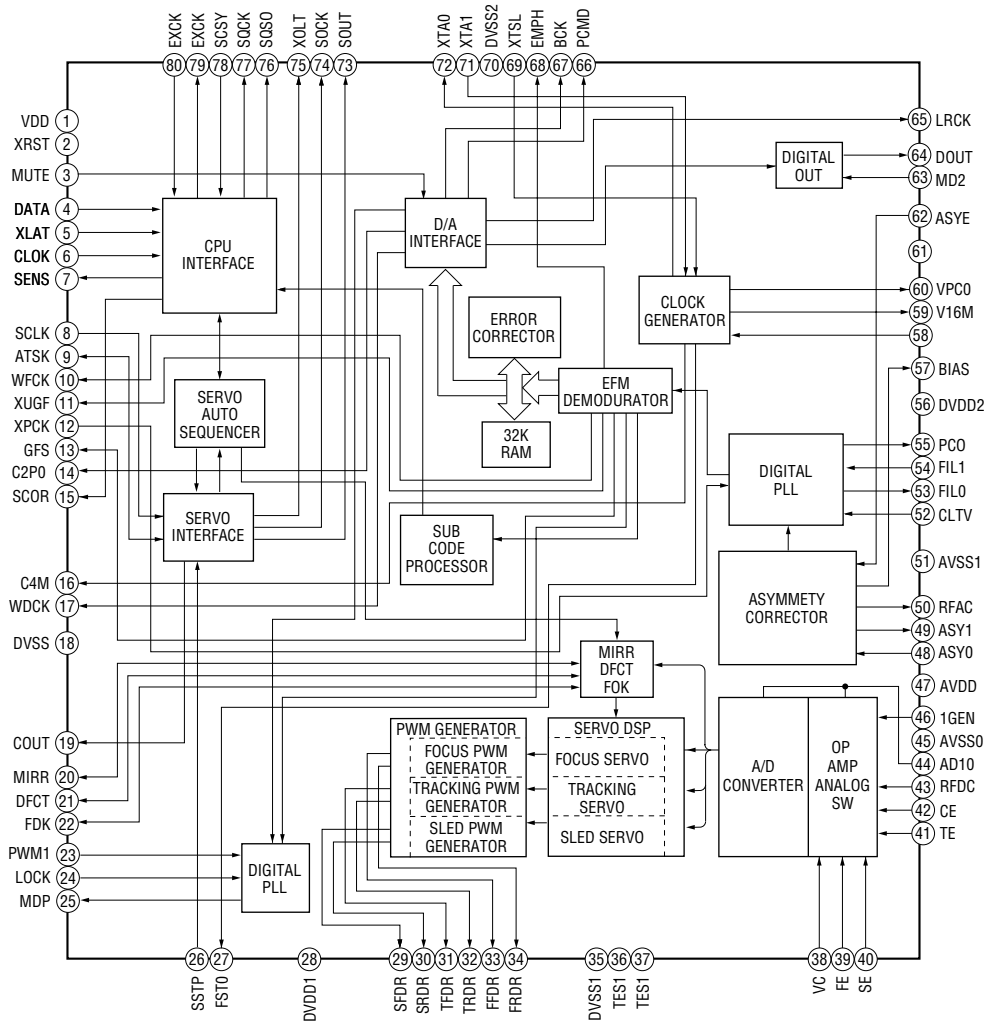
6-29. PRINTED WIRING BOARD – CD MOTOR SECTION –
• See page 20 for Circuit Boards Location.



6-30. IC BLOCK DIAGRAMS

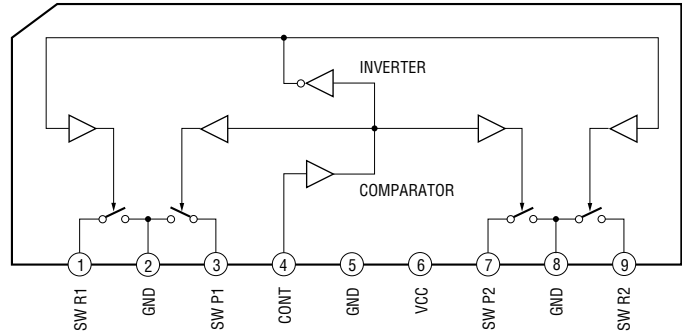
• BD Board

IC101 CXD3008Q



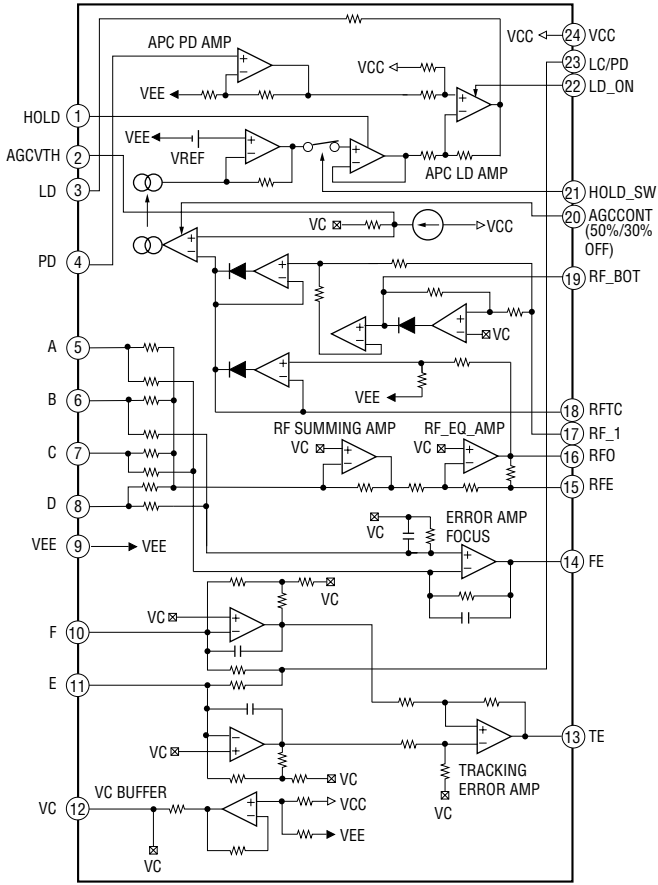
• AUDIO Board

IC602 UPC1330HA



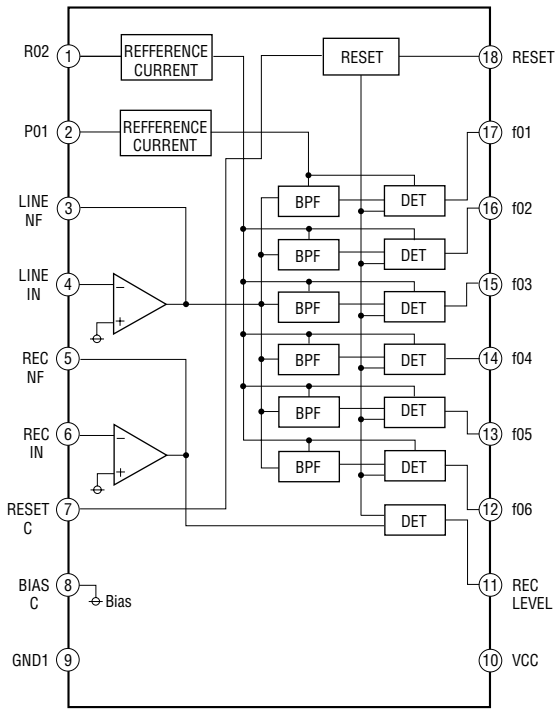
• BD Board

IC103 CXA2568M-T6



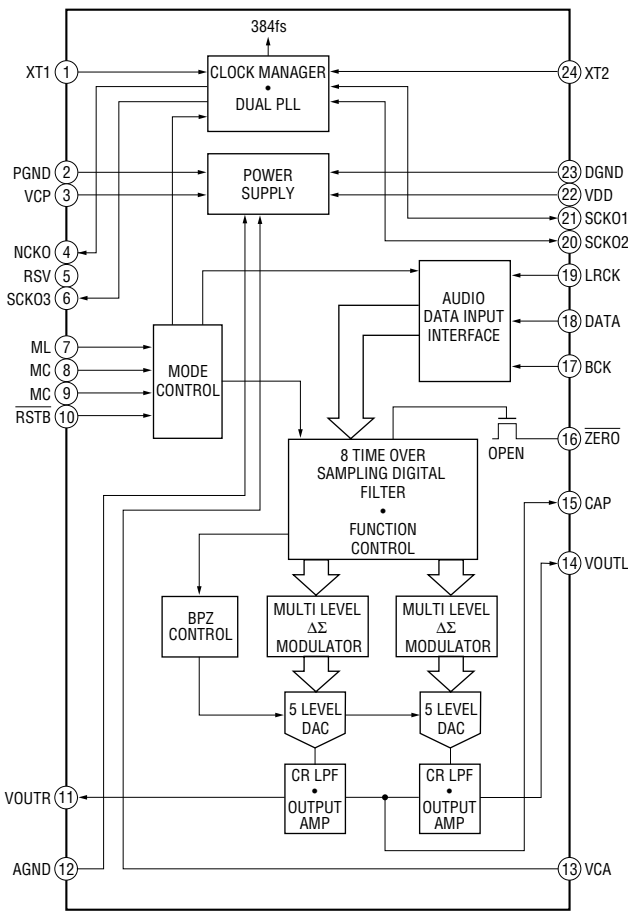
• PANEL Board (1/2)

IC603 BA3830F



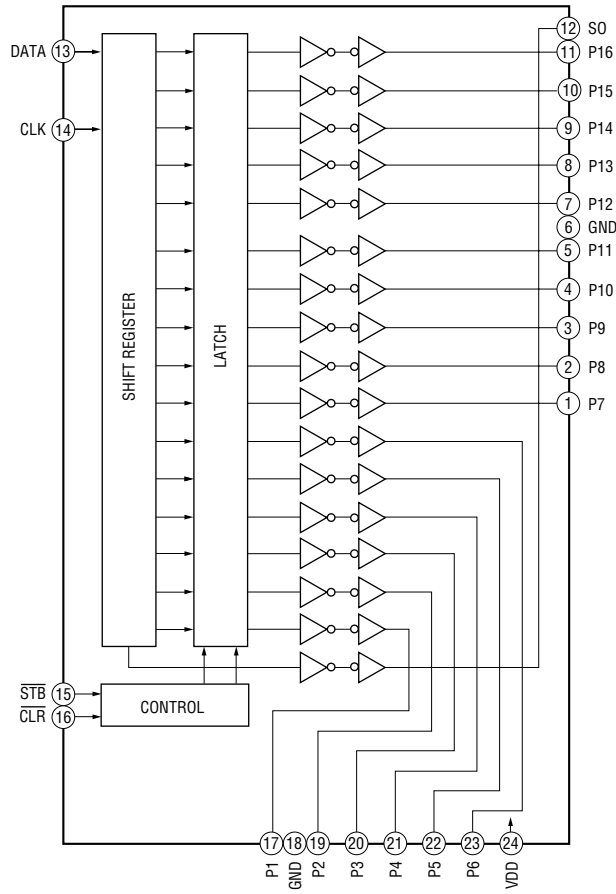
• VIDEO Board (2/2)

IC509 PCM1727E-2/T2



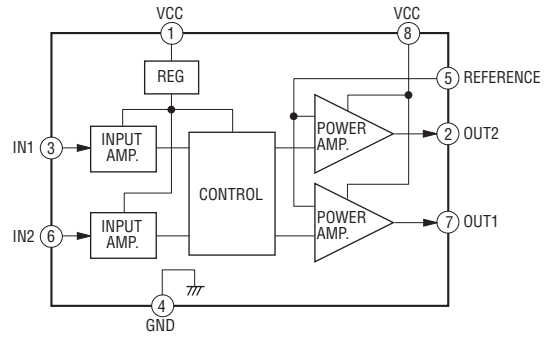
- **PANEL Board (2/2)**

IC604 NJU3716M-T2



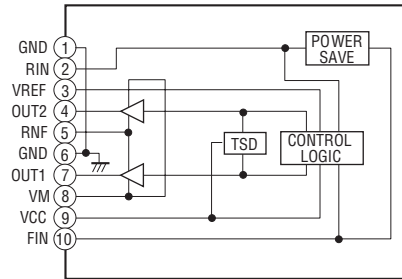
- **MOTOR (TURN) Board**

IC701 M54641L

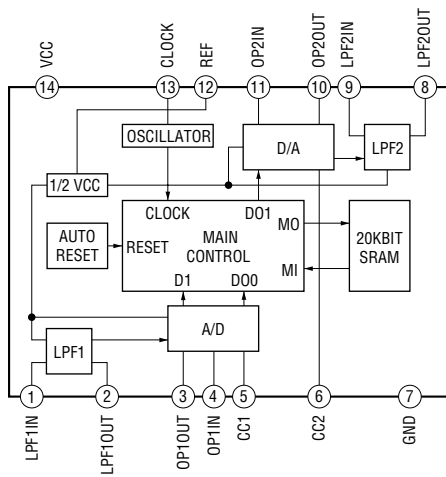


- **MOTOR (SLIDE) Board**

IC801 BA6286N



IC711 M65850FP



6-31. IC PIN FUNCTIONS

• IC101 DIGITAL SIGNAL PROCESSOR (CXD3008Q) (BD Board)

Pin No.	Pin Name	I/O	Function
1	DVDD0	—	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	CLOK	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	XPCCK	O	XPCCK 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	—	Digital power supply
29	SFDR	O	Sled drive output
30	SRDR	O	
31	TFDR	O	Tracking drive output
32	TRDR	O	
33	FFDR	O	Focus drive output
34	FRDR	O	
35	DVSS1	—	Digital ground
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	Function
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	—	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	—	Analog power supply
57	BIAS	I	Asymmetry circuit constant current input
58	VCTL	I	Control voltage input for variable pitch PLL
59	V16M	I/O	16.9344MHz output (Not used)
60	VPCO	O	Charge-pump output for variable pitch PLL (Not used)
61	DVDD2	—	Digital power supply
62	ASYE	I	Asymmetry circuit ON/OFF
63	MD2	I	Digital-out ON/OFF control
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 data 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

• IC505 CD MECHANISM CONTROLLER (M30624FGFP) (VIDEO BOARD (1/2))

Pin No.	Pin Name	I/O	Function
1	SENSE	I	Internal status (SENSE) signal input from the CXD3008Q (IC101)
2	SENSE CLK	O	Sense serial data reading clock signal output to the CXD3008Q (IC101)
3	DSP DATA	O	Serial data output to the CXD3008Q (IC101)
4	DSP LATCH	O	Serial data latch pulse output to the CXD3008Q (IC101)
5	DSP CLK	O	Serial data transfer clock signal output to the CXD3008Q (IC101)
6	LD ON	O	Laser power selection signal output to the CXA2568M (IC103) “H”: laser on
7	REMOTE IN	I	Remote control signal input terminal Not used (open)
8	BYTE	I	“External data bus line byte selection signal input “L”: 16 bit, “H”: 8 bit (fixed at “L”)
9	CN VSS	—	Ground terminal
10	DSP MUTE	O	Muting on/off control signal output to the CXD3008Q (IC101) “H”: mutin on
11	CTRL1	O	Clock selection signal output to the CXD3008Q (IC101) “L”: 16.9344 MHz (double speed), “H”: 33.8688 MHz
12	XRESET	I	Reset signal input from the system controller (IC501) “L”: reset For several hundreds msec. after the power supply rises, “L”: is input, then it changes to “H”
13	XOUT	O	Main system clock output terminal (10 MHz)
14	VSS	—	Ground terminal
15	XIN	I	Main system clock input terminal (10 MHz)
16	VCC	—	Power supply terminal (+5 V)
17	NMI	I	Non-maskable interrupt input terminal (fixed at “H” in this set)
18	SCOR	I	Subcode sync (S0+S1) detection signal input from the CXD3008Q (IC101)
19	CTRL2	O	AGC HOLD signal output.
20	8830 HINT	I	Interrupt request signal input from the MPEG video/audio decoder (IC506)
21	NT/PAL OUT	O	NTSC/PAL select signal output.
22	DF LATCH	O	Serial data latch pulse output to the D/A converter (IC509) “L”: activ
23	NC	—	Not used.
24	8830 RESET	O	Reset signal output to the MPEG video/audio decoder (IC506) “L”: reset
25	JOG1	I	Rotary encoder jog dial pulse input terminal Not used (fixed at “H”)
26	JOG2	I	Rotary encoder jog dial pulse input terminal Not used (fixed at “H”)
27	VMUTE	O	Video muting on/off control signal output terminal “L”: muting on
28	OSD CS	O	Chip select signal of D/A converter (IC511).
29	I2C/RX	I/O	I ² C and serial data input from CD mechanism control (IC501).
30	I2C/TX	I/O	I ² C and serial data output from CD mechanism control (IC501).
31	S-DATA O	O	Serial data output to the MPEG video/audio decoder (IC505) and D/A convertor (IC509)
32	S-DATA I	I	Serial data input from the MPEG video/audio decoder (IC505)
33	S-CLK	O	Serial data transfer clock signal output to the MPEG video/audio decoder (IC505) and D/A converter (IC509)
34	RTS1	O	RTS signal to serial port (check connector).
35	NC	O	Not used (open)
36	SUBQ DATA	I	Sub-code Q data input from the CXD3008Q (IC101)
37	SUBQ CLK	O	Sub-code Q data reading clock signal output to the CXD3008Q (IC101)
38	P. ON	O	Power on/off control signal output terminal Not used (open)
39	BUS XRDY	I	Ready signal input terminal Not used (fixed at “H”)
40	BUS	O	Not used (open)
41	BUS XHOLD	I	Hold signal input terminal Not used (fixed at “H”)

Pin No.	Pin Name	I/O	Function
42, 43	BUS	O	Not used (open)
44	BUS XRD	O	Bus read signal output.
45	BUS	O	Not used.
46	BUS XWR	O	Bus write signal output.
47	8830-CS	O	Chip select signal output. (IC505)
48	AUDIO MUTE	O	Audio muting on/off control signal output terminal “L”: muting on Not used (open)
49	LOAD OUT	O	Loading motor drive signal output terminal Not used (open)
50	LOAD IN	O	Loading motor drive signal output terminal Not used (open)
51	INSW	I	Disc detection (load in) switch input terminal Not used (fixed at “H”)
52	OUTSW	I	Disc detection (load out) switch input terminal Not used (fixed at “H”)
53	MODEL1	I	Destination setting terminal (fixed at “L”)
54	MODEL2	I	Destination setting terminal (fixed at “L”)
55 to 61	A15 to A9	O	Address signal output for the external device. Not used
62	VCC	—	Power supply terminal (+5 V)
63	A8	O	Address signal output for the external device. Not used (open)
64	VSS	—	Ground terminal
65 to 72	A7 to A0	O	Address signal output for the external device.
73	TEST LED	O	LED drive signal output for the self diagnosis indicator (D502) Normally: “L” (LED on)
74	TEST1	I	Setting terminal for the test mode 1 (for VCD check) Normally: fixed at “H” (“L”: test mode)
75	TEST2	I	Setting terminal for the test mode 2 (for SERVO check) Normally: fixed at “H” (“L”: test mode)
76	TEST3	I	Setting terminal for the test mode 3 Normally: fixed at “H” (“L”: test mode) Not used (fixed at “H”)
77	DEVICE RESET	O	System reset signal output to the CXD3008Q (IC101), BA5974FP (IC102) and D/A converter (IC509) “L”: reset
78	STANDBY	O	Standby on/off control signal output terminal Not used (open)
79	FL CS	O	Chip select signal output terminal Not used (open)
80	FLBLK	O	Blank control signal output terminal Not used (open)
81 to 88	D7 to D0	I/O	Two-way data bus with the external device Not used (open)
89	NC	—	Not used.
90 to 92	KEY1 to KEY3	I	Key input terminal Not used (fixed at “H”)
93	NT/PAL	I	Video system select switch (S501) input terminal “L”: PAL, “H”: NTSC, Center voltage: AUTO
94, 95	NC	—	Not used.
96	AVSS	—	Ground terminal (for A/D conversion)
97	NC	—	Not used.
98	VREF	I	Reference voltage (+5 V) input terminal (for A/D conversion)
99	AVCC	—	Power supply terminal (+5 V) (for A/D conversion)
100	NC	—	Not used.

• IC506 MPEG VIDEO/AUDIO DECODER, VIDEO SIGNAL PROCESSOR (CL8830-PD0) (VIDEO BOARD (2/2))

Pin No.	Pin Name	I/O	Function
1	PIO [10:0]	I/O	Programmable I/O pins.
2 to 4	HDATA [7:0]	I/O	8 bit bi-directional host data bus. Host writes data to the decoder Code FIFO via HDATA [7:0]. MSB of the 32-bit word is written first. The host also reads and writes the decoder internal registers and local SDRAM/ROM via HDATA [7:0].
5	VDD	—	3.3-V supply voltage for core logic and I/O signals.
6	HDATA [7:0]	I/O	8 bit bi-directional host data bus. Host writes data to the decoder Code FIFO via HDATA [7:0]. MSB of the 32-bit word is written first. The host also reads and writes the decoder internal registers and local SDRAM/ROM via HDATA [7:0].
7	VSS	—	Ground for core logic and I/O signals.
8 to 11	HDATA [7:0]	I/O	8 bit bi-directional host data bus. Host writes data to the decoder Code FIFO via HDATA [7:0]. MSB of the 32-bit word is written first. The host also reads and writes the decoder internal registers and local SDRAM/ROM via HDATA [7:0].
12	VDD	—	3.3-V supply voltage for core logic and I/O signals.
13	RESET	I	Hardware reset. An external device asserts RESET (active LOW) to execute a decoder hardware reset. To ensure proper initialization after power in stable, assert RESET for at least 20 Ms.
14	VSS	—	Ground for core logic and I/O signals.
15	WAIT	O	Active LOW to indicate host initiated transfer is not complete. WAIT is asserted after the falling edge of CS and reasserted when decoder is ready to complete transfer cycle. Open drain signal, must be pulled-up to 3.3 volts. Driven high for 10 ns before tristate.
16	INT	O	Host interrupt. Open drain signal, must be pulled-up to 3.3 volts. Driven high for 10 ns before tristate.
17	VDD	—	3.3-V supply voltage for core logic and I/O signals.
19	VSS	—	Ground for core logic and I/O signals.
27	VDD	—	3.3-V supply voltage for core logic and I/O signals.
29	VSS	—	Ground for core logic and I/O signals.
36	VDD	—	3.3-V supply voltage for core logic and I/O signals.
38	VSS	—	Ground for core logic and I/O signals.
40	VDD	—	3.3-V supply voltage for core logic and I/O signals.
42	VSS	—	Ground for core logic and I/O signals.
47	VDD	—	3.3-V supply voltage for core logic and I/O signals.
49	VSS	—	Ground for core logic and I/O signals.
52	PIO [10:0]	I/O	Programmable I/O pins.
53, 54	MDATA [15:0]	I/O	Memory address.
55	VDD	—	3.3-V supply voltage for core logic and I/O signals.
56	MDATA [15:0]	I/O	Memory address.
57	VSS	—	Ground for core logic and I/O signals.
58 to 60	MDATA [15:0]	I/O	Memory address.
61	VDD	—	3.3-V supply voltage for core logic and I/O signals.
62	MDATA [15:0]	I/O	Memory address.
63	VSS	—	Ground for core logic and I/O signals.
64	MDATA [15:0]	I/O	Memory address.
65	VDD	—	3.3-V supply voltage for core logic and I/O signals.
66	MDATA [15:0]	I/O	Memory address.
67	VSS	—	Ground for core logic and I/O signals.
68	MDATA [15:0]	I/O	Memory address.
69	VDD	—	3.3-V supply voltage for core logic and I/O signals.
70	MDATA [15:0]	I/O	Memory address.
71	VSS	—	Ground for core logic and I/O signals.
72 to 74	MDATA [15:0]	I/O	Memory address.
75	VDD	—	3.3-V supply voltage for core logic and I/O signals.

Pin No.	Pin Name	I/O	Function
76	MDATA [15:0]	I/O	Memory address.
77	VSS	—	Ground for core logic and I/O signals.
78	MDATA [15:0]	I/O	Memory address.
79	LDQM	O	SDRAM LDQM.
80	UDQM	O	SDRAM UDQM.
81	VDD	—	3.3-V supply voltage for core logic and I/O signals.
82	$\overline{\text{MWE}}$	O	SDRAM/EDO write enable. Decoder asserts active LOW to request a write operation to the SDRAM array.
83	VSS	—	Ground for core logic and I/O signals.
84	SD-CLK	O	SDRAM system clock.
85	$\overline{\text{SD-CAS}}$	O	Active LOW SDRAM column address.
86	$\overline{\text{SD-RAS}}$	O	Active LOW SDRAM row address.
87	VDD	—	3.3-V supply voltage for core logic and I/O signals.
88	$\overline{\text{SD-CS}}$ [1:0]	O	Active LOW SDRAM bank select.
89	VSS	—	Ground for core logic and I/O signals.
90	$\overline{\text{SD-CS}}$ [1:0]	O	Active LOW SDRAM bank select.
91	VDD	—	3.3-V supply voltage for core logic and I/O signals.
92	$\overline{\text{EDO-CAS}}$	O	Active LOW EDO DRAM column address strobe.
93	VSS	—	Ground for core logic and I/O signals.
94	$\overline{\text{EDO-RAS}}$	O	Active LOW EDO DRAM row address strobe.
95	VDD	—	3.3-V supply voltage for core logic and I/O signals.
96	MADDR [20:0]	O	Memory address.
97	VSS	—	Ground for core logic and I/O signals.
98 to 100	MADDR [20:0]	O	Memory address.
101	VDD	—	3.3-V supply voltage for core logic and I/O signals.
102	MADDR [20:0]	O	Memory address.
103	VSS	—	Ground for core logic and I/O signals.
104 to 106	MADDR [20:0]	O	Memory address.
107	VDD	—	3.3-V supply voltage for core logic and I/O signals.
108	MADDR [20:0]	O	Memory address.
109	VSS	—	Ground for core logic and I/O signals.
110 to 112	MADDR [20:0]	O	Memory address.
113	VDD	—	3.3-V supply voltage for core logic and I/O signals.
114	MADDR [20:0]	O	Memory address.
115	VSS	—	Ground for core logic and I/O signals.
116	MADDR [20:0]	O	Memory address.
117	VDD	—	3.3-V supply voltage for core logic and I/O signals.
118	MADDR [20:0]	O	Memory address.
119	VSS	—	Ground for core logic and I/O signals.
120 to 122	MADDR [20:0]	O	Memory address.
123	VDD	—	3.3-V supply voltage for core logic and I/O signals.
124	MADDR [20:0]	O	Memory address.
125	VSS	—	Ground for core logic and I/O signals.
126, 127	MADDR [20:0]	O	Memory address.
128	$\overline{\text{ROM-CS}}$	O	ROM chip select. Open drain signal, must be pulled-up to 3.3 volts.
129	PIO [10:0]	I/O	Programmable I/O pins.
133	PIO [10:0]	I/O	Programmable I/O pins.
134	VDD	—	3.3-V supply voltage for core logic and I/O signals.
136	VSS	—	Ground for core logic and I/O signals.
138	PIO [10:0]	I/O	Programmable I/O pins.

Pin No.	Pin Name	I/O	Function
141	PIO [10:0]	I/O	Programmable I/O pins.
142, 143	VDATA [7:0]	O	Video data bus. Byte serial CdYCrY data synchronous with VCLK. At power-up, the decoder does not drive VDATA. During boot-up, the decoder uses configuration parameters to drive or 3-state VDATA.
144	VDD	—	3.3-V supply voltage for core logic and I/O signals.
145	VDATA [7:0]	O	Video data bus. Byte serial CdYCrY data synchronous with VCLK. At power-up, the decoder does not drive VDATA. During boot-up, the decoder uses configuration parameters to drive or 3-state VDATA.
146	VSS	—	Ground for core logic and I/O signals.
147	PIO [10:0]	I/O	Programmable I/O pins.
148	VDATA [7:0]	O	Video data bus. Byte serial CdYCrY data synchronous with VCLK. At power-up, the decoder does not drive VDATA. During boot-up, the decoder uses configuration parameters to drive or 3-state VDATA.
149	VDD	—	3.3-V supply voltage for core logic and I/O signals.
150	VDATA [7:0]	O	Video data bus. Byte serial CdYCrY data synchronous with VCLK. At power-up, the decoder does not drive VDATA. During boot-up, the decoder uses configuration parameters to drive or 3-state VDATA.
151	VSS	—	Ground for core logic and I/O signals.
152	VDATA [7:0]	O	Video data bus. Byte serial CdYCrY data synchronous with VCLK. At power-up, the decoder does not drive VDATA. During boot-up, the decoder uses configuration parameters to drive or 3-state VDATA.
153	PIO [10:0]	I/O	Programmable I/O pins.
154, 155	VDATA [7:0]	O	Video data bus. Byte serial CdYCrY data synchronous with VCLK. At power-up, the decoder does not drive VDATA. During boot-up, the decoder uses configuration parameters to drive or 3-state VDATA.
157	$\overline{\text{HSYNC}}$	I/O	Horizontal sync. The decoder begins outputting pixel data for a new horizontal line after the falling (active) edge of $\overline{\text{HSYNC}}$.
158	$\overline{\text{VSYNC}}$	I/O	Vertical sync. Bi-directional, the decoder outputs the top border of a new field on the first $\overline{\text{HSYNC}}$ after the falling edge of $\overline{\text{VSYNC}}$. $\overline{\text{VSYNC}}$ can accept vertical synchronization or top/bottom field notification from an external source. ($\overline{\text{VSYNC}}$ HIGH=Bottom field. $\overline{\text{VSYNC}}$ LOW=Top field)
160	VDD	—	3.3-V supply voltage for core logic and I/O signals.
161	DA-DATA	O	Serial audio samples relative to DA-BCK clock.
162	VSS	—	Ground for core logic and I/O signals.
166	DA-LRCK	O	PCM left-right clock. Identifies the channel for each audio sample. The polarity is programmable.
167	DA-BCK	O	PCM bit clock. Divided by 8 from DA-XCX, DA-BCK can be either 48 or 32 times the sampling clock.
168	VDD	—	3.3-V supply voltage for core logic and I/O signals.
169	DA-XCX	I/O	Audio external frequency clock. Used to generate DA-BCK and DA-LRCK. DA-XCX can be either 384 or 256 times the sampling frequency.
170	VSS	—	Ground for core logic and I/O signals.
171	DAI-DATA	I	PCM input data, two channels. Serial audio samples relative to DA-BCK clock, resulting in downmixed audio output.
172	DAI-LRCK	I	PCM input left-right clock.
173	DAI-BCK	I	PCM input bit clock.
174	PIO [10:0]	I/O	Programmable I/O pins.
175	VDD	—	3.3-V supply voltage for core logic and I/O signals.
176	A-VDD	—	3.3-V analog supply voltage.
177	VCLK	I	Video clock. Clocks out data on input. VDATA [7:0]. Clock is typically 27 MHz.
178	SYSCLK	I	System clock. Decoder requires an external 27 MHz TTL oscillator. Drive with the same 27-MHz as VCK.
179	A-VSS	—	Analog ground for PLL.
180	CD-DATA	I	Serial CD data.
181	VDD	—	3.3-V supply voltage for core logic and I/O signals.

Pin No.	Pin Name	I/O	Function
182	CD-LRCK	I	Programmable polarity 16-bit word synchronization to the decoder (right channel HIGH).
183	VSS	—	Ground for core logic and I/O signals.
184	CD-BCK	I	CD bit clock. Decoder accept multiple BCK rates.
185	CD-C2PO	I	Asserted HIGH indicates a corrupted byte. Decoder keeps the previous valid picture on-screen until the next valid picture is decoded.
190	PIO [10:0]	I/O	Programmable I/O pins.
193	VDD	—	3.3-V supply voltage for core logic and I/O signals.
195	VSS	—	Ground for core logic and I/O signals.
197	VDD	—	3.3-V supply voltage for core logic and I/O signals.
199	VSS	—	Ground for core logic and I/O signals.
202 to 204	HADDR [2:0]	I	Host address bus. 3-bit address bus selects one of eight host interface registers.
206	$\overline{\text{CS}}$	I	Host chip select. Host asserts CS to select the decoder for a read or write operation. The falling edge of this signal triggers the read or write operation.
207	R/W	I	Read/write strobe in M mode. Write strobe in I mode. Host asserts R/W LOW to select write and LOW to select Read.
208	RD	I	Read strobe in I mode. Must be held HIGH in M mode.

• IC501 MASTER CONTROL (M30622MA-A16FP) (MAIN Board (3/4))

Pin No.	Pin Name	I/O	Function
1	STK-MUTE	O	Power amp ON/OFF signal output
2	POWER	O	Power ON/OFF signal output
3	F-RELAY	O	Front speaker relay control output
4	REAR-RELAY	O	Rear speaker relay control output (Not used)
5	CD-POWER	O	CD power on signal output
6	LINE-MUTE	O	Line mute ON/OFF selection output
7	DBFB-H/L	O	DBFB H/L select signal output
8, 9	–	–	Not used
10	XC-IN	I	X'tal (32.768MHz)
11	XC-OUT	O	
12	RESET	I	Reset signal input
13	X-OUT	O	X'tal (16MHz)
14	VSS	–	Ground
15	X-IN	I	X'tal (16MHz)
16	VCC	–	Power supply (+5V)
17	NMI	I	Not used (PULL UP EVER+5V)
18	WAKE UP	I	WAKE UP (Fixed at fixed at “L”)
19	SCOR	I	Subcode data request signal output (Not used)
20	RDS-INT	I	RDS data interrupt input
21	RDS-DATA	I	
22	AC-CUT	I	Back up signal input
23	PL-CLK	O	Clock signal to pro-logic (Not used)
24	PL-DATA	O	Data signal to pro-logic (Not used)
25	PL-LAT	O	Latch signal to pro-logic (Not used)
26	TIMER LED	I	Timer LED ON/OF
27	PROTECTOR	I	Speaker protect ON/OF
28	–	–	Not used
29	IIC-CLK	O	Clock output for IC601
30	IIC-DATA	O	Data output for IC601
31	–	–	Not used
32	SQ-DATA	I	Subcode Q data clock input
33	SQ-CLK	I	Not used
34	SW-MODE	O	Not used
35	CD-DATA	O	CD data output (Not used)
36	RY-SW	I	Head phone switch detect
37	CD-CLK	O	CD clock output (Not used)
38	493-LAT	O	Latch signal output for M62493FP (IC101)
39	ST-BY LED/ CLOCK-OUT	O	Clock ond stand by LED signal output
40	L+R/L-R	I	Not used
41	BY-PASS	I	
42	FL-SW	I	FL switch ON/OFF
43	STBY RELAY	I	Stand by relay ON/OFF
44	BASS FREQ	O	FREQ high/low signal for SYNC bass
45, 46	–	–	Not used
47	493-DATA	O	Data output for M62493FP (IC101)
48	493-CLK	O	Clock output for M62493FP (IC101)
49	ST-MUTE	O	Tuned mute signal output

Pin No.	Pin Name	I/O	Function
50	STEREO	I	Stereo detection for tuner
51	TUNED	I	Tuned detection for tuner
52	ST-CE	O	Tuner chip enable output
53	ST-DOUT	O	Tuner data output
54	ST-DIN	I	Tuner data input
55	ST-CLK	O	Tuned clock output
56	SENS	I	BD Condition signal input (Not used)
57	HDLD	O	Mode hold signal output (Not used)
58	XLT	O	CD latch signal output (Not used)
59	XRST	O	CD reset signal output
60	DISC-SENS	I	Slit sensor of disc table input
61	T-SENS	I	CD table detection signal input
62	VCC	–	Power supply (+5V)
63	TBL-L	O	Table motor control output
64	VSS	–	Ground
65	TBL-R	O	Table motor control output
66	LOAD-OUT	O	Loading motor control signal output
67	LOAD-IN	O	
68	ENC 3/UP-SW	I	Disc tray address detect encoder input
69	ENC 2/DISC-LED	I	
70	ENC 1	I	
71	OUT-OPEN	O	Loading out detection signal output
72	B-TRG	O	Trigger motor control output
73	A-TRG	O	
74	CAP-M-COT2	O	Capstan motor control 1(-) signal output
75	CAP-M-COT1	O	Capstan motor control 2(-) signal output
76	CAP-M-H/L	O	Capstan motor H/L speed select signal output
77	AMS-IN	I	Connected to ground
78	TC-MUTE	O	TC mute ON/OFF selection output
79	R/PB/PAS	O	REC/PB/PASS selection output
80	NR-ON/OFF	O	NR ON/OFF signal output
81	REC-MUTE	O	REC mute ON/OFF selection output
82	BIAS	O	Bias ON/OFF selection output
83	EQ-H/N	O	Equalizer H/N select output
84	PB-A/B	O	PB Deck A/Deck B select output
85	ALC	O	ALC ON/OFF output
86	B-PLAY-SW	I	Deck B play detect
87	A-PLAY-SW	I	Deck A play detect
88	A-HALF	I	Deck A cassette detect
89	B-HALF	I	Deck B cassette detect
90	B-SHUT	I	B Deck reel pulse detector
91	A-SHUT	I	A Deck reel pulse detector
92	SOFT-TEST	O	Software test port
93, 94	KEY/CD-ADJ	I	CD adjust point port
95	MODEL IN	I	Version select signal input
96	AVSS	–	Ground
97	SPEC-IN	I	Version select signal input
98	VREF	I	Analog reference voltage input
99	AVCC	–	Analog power supply
100	TC-RELAY	O	REC/PB head selection output for IC602

• IC601 DISPLAY CONTROL (TMP88CS76F-6010) (PANEL Board (1/2))




Pin No.	Pin Name	I/O	Function
1	SIRCS	I	Remote commander signal input
2	JOG A	I	Rotary encoder (S601) pulse input
3	L/P SCK	O	LED/PAD clock output
4	LED LA	O	LED latch output
5	L/P DAT	O	LED/PAD data output
6	PAD LA	O	PAD latch output
7	L SEL	O	LED select signal
8	JOG B	I	Rotary encoder (S601) pulse input
9	VOL A	I	Rotary encoder (S602) pulse input
10	VOL B	I	
11 to 14	KEY 0 to KEY 3	I	Key input
15	GRADATION L	O	LED gradation signal (left)
16	S LOW (F01)	O	Sptctrum analyzer input (Super low flegency) (40Hz)
17	BPF 1 (F02)	O	Sptctrum analyzer input (100Hz)
18	BPF 2	O	Sptctrum analyzer input (400Hz)
19	BPF 3	O	Sptctrum analyzer input (2KHz)
20	BPF 4	O	Sptctrum analyzer input (6KHz)
21	ALL B (L+R)	I	Sptctrum analyzer input (all band)
22	GLADATION R/WAKE UP	O	LED gradation signal (right)/WAKE UP signal
23	VSS I/O	–	Ground
24	VASS	–	Ground
25	VAref	I	Analog reference voltage input
26	VDD I/O	–	Power supply (+5V)
27 to 40	G 18 to G 5	O	FL gride signal output
41	VDD VFT	–	Power supply (+5V)
42 to 45	G 4 to G 1	O	FL gride signal output
46 to 67	S 1 to S 22	O	FL segment signal output
68	VKK	–	Power supply (-30V)
69	VDD for CPU	–	Power supply (+5V)
70	X IN	I	X'tal (12.5MHz)
71	VSS for CPU	–	Ground
72	X OUT	O	X'tal (12.5MHz)
73	RESET	I	Reset signal input from main controller
74	CH for PAD	O	Channel signal output for PAD
75	BUSY for PAD	O	Busy signal output for PAD
76	TEST	I	Connected ground
77	–	–	Not used (to ground)
78	IIC DATA	O	Data output for IC501
79	IIC CLK	O	Clock output for IC501
80	–	–	Not used (to ground)

SECTION 7

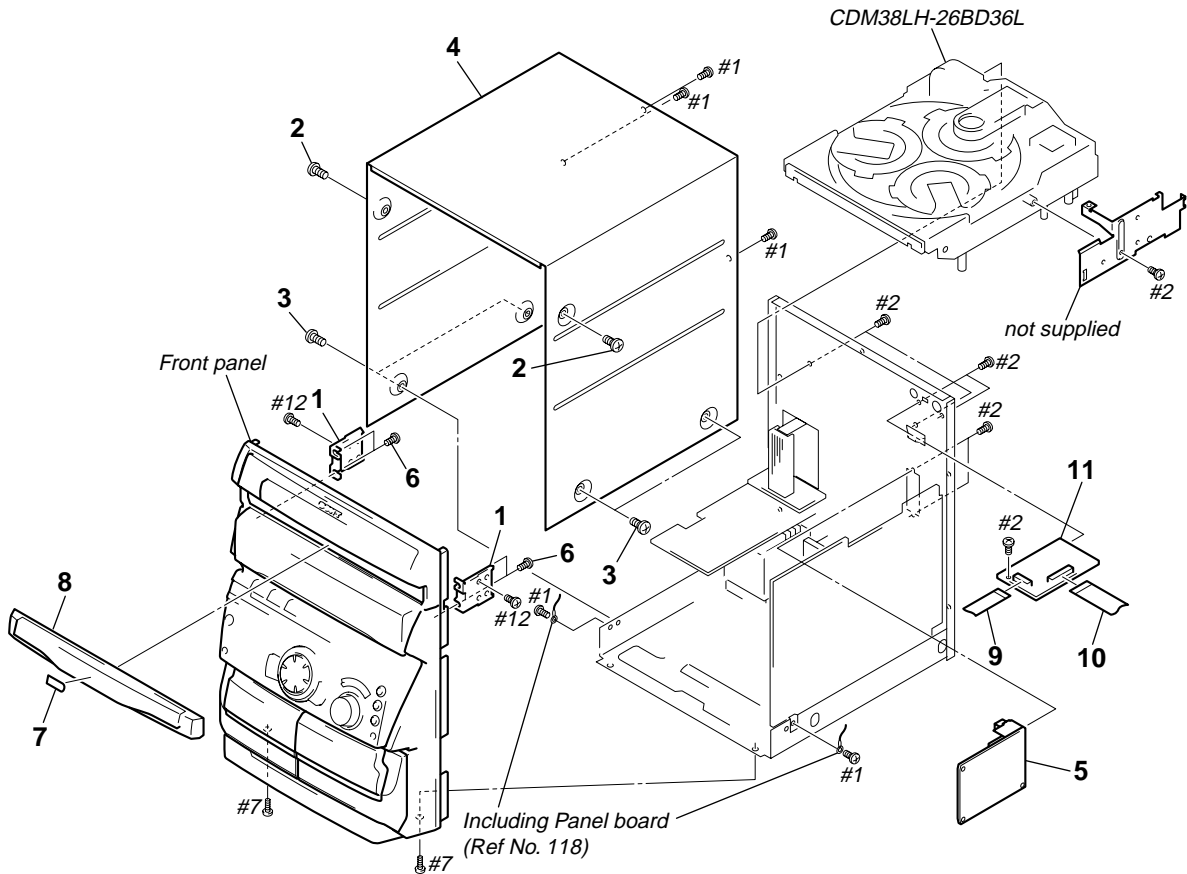
EXPLODED VIEWS

NOTE:

- 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.

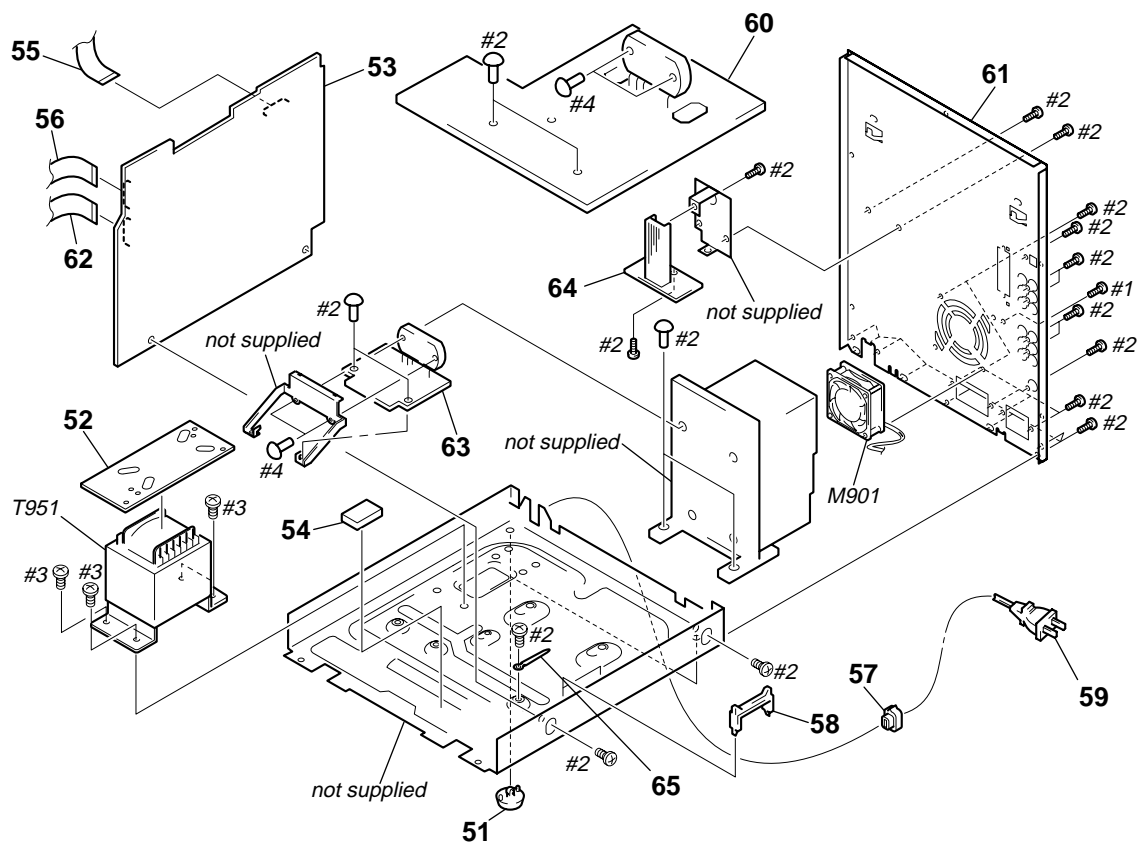
The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.	以阴影和  标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。
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7-1. CASE SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* 1	4-996-716-01	HOLDER (CDM)		6	4-951-620-01	SCREW (2.6X8), +BVTP	
2	3-363-099-71	SCREW (CASE 3 TP2)		7	4-223-216-01	EMBLEM (S-VCD)	
3	3-363-099-11	SCREW (CASE 3 TP2)		8	X-4952-097-1	PANEL ASSY, LOADING	
4	4-215-179-01	CASE		9	1-791-517-11	WIRE (FLAT TYPE) (15 CORE)	
5	1-693-381-11	TUNER UNIT (FM/AM)		10	1-775-229-11	WIRE (FLAT TYPE) (25 CORE)	
				11	A-4724-927-A	VIDEO BOARD, COMPLETE	

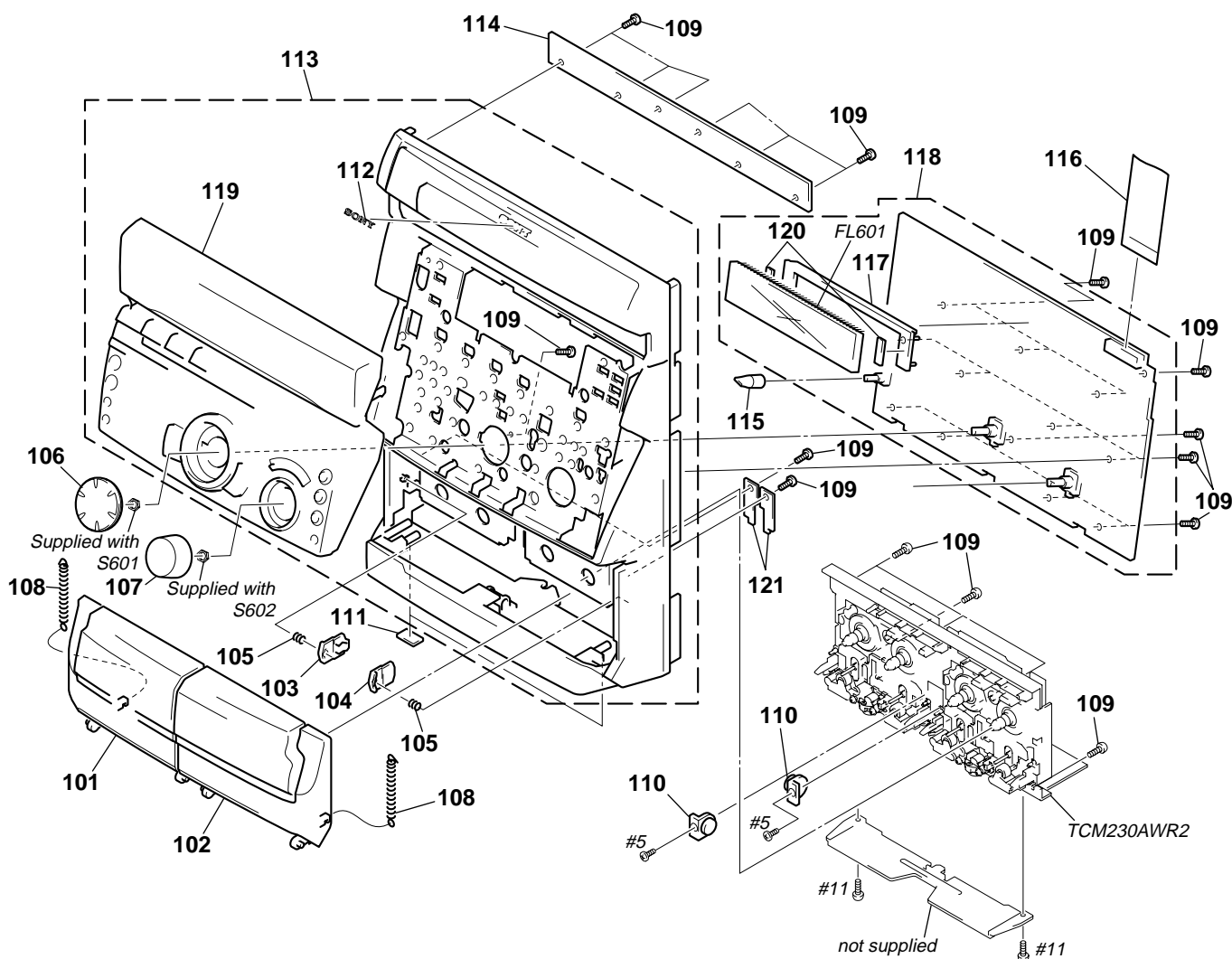
7-2. CHASSIS SECTION



<p>The components identified by mark ▲ or dotted line with mark ▲ are critical for safety. Replace only with part number specified.</p>	<p>以阴影和 ▲ 标志来识别的零部件，在安全方面具有关键性。因此只能以规定号码的零部件来更换。</p>
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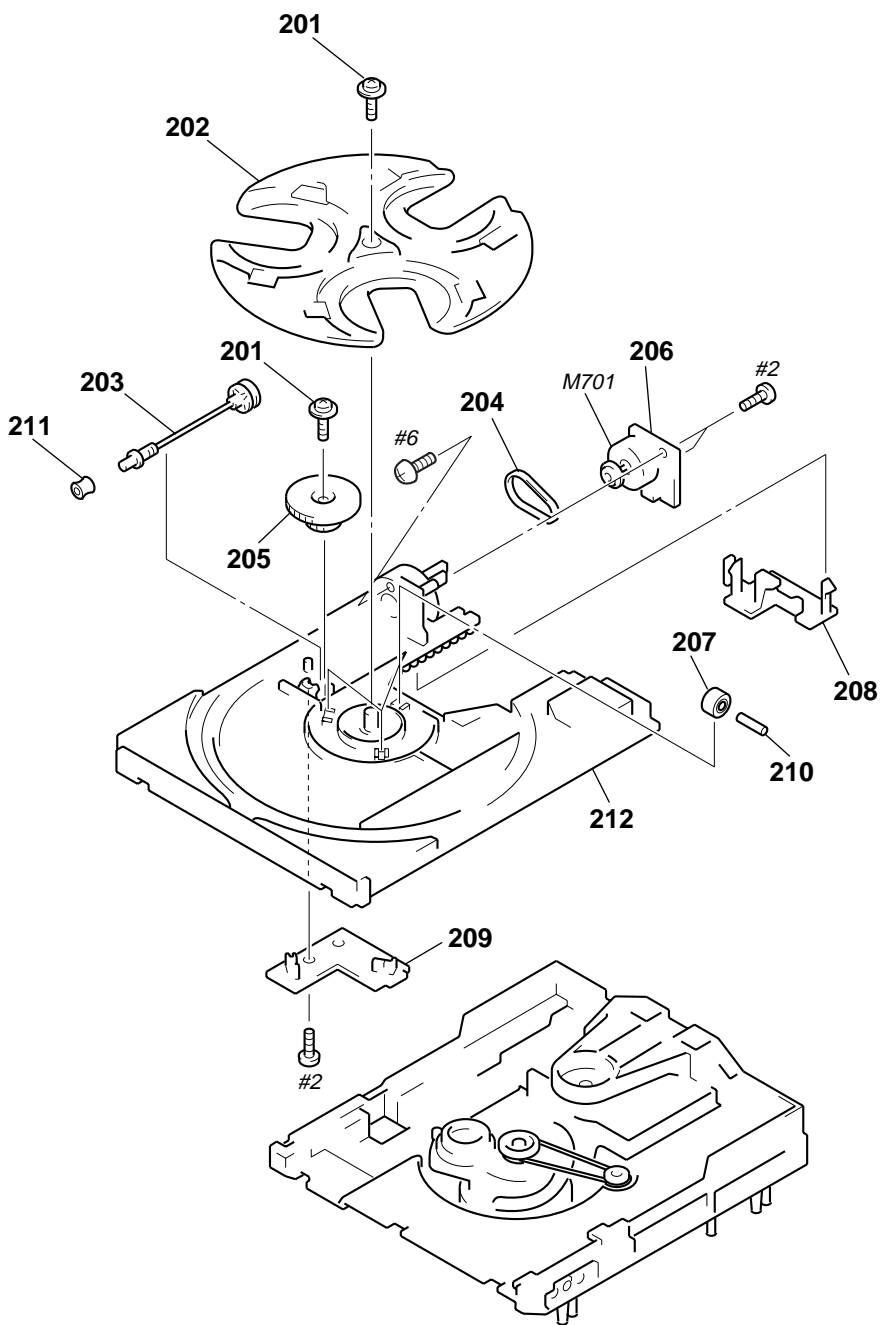
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	4-965-822-01	FOOT		61	4-215-642-71	PANEL, BACK	
* 52	1-672-369-11	TRANS BOARD		62	1-773-023-11	WIRE (FLAT TYPE) (15 CORE) (310 mm)	
53	A-4426-786-A	MAIN BOARD, COMPLETE		63	A-4426-779-A	3CH AMP BOARD, COMPLETE	
54	4-985-642-01	CUSHION		64	1-675-906-11	5V POWER BOARD	
55	1-773-008-11	WIRE (FLAT TYPE) (15 CORE) (140 mm)		65	3-701-822-01	HOLDER, WIRE	
56	1-773-049-11	WIRE (FLAT TYPE) (17 CORE)		M901	1-763-072-11	FAN, D.C.	
* 57	3-703-244-00	BUSHING (2104), CORD		▲ T951	1-433-555-21	TRANSFORMER, POWER	
* 58	4-988-533-01	HOLDER, PWB					
▲ 59	1-782-464-21	CORD, POWER					
60	A-4426-776-A	FRONT AMP BOARD, COMPLETE					

7-3. FRONT PANEL SECTION



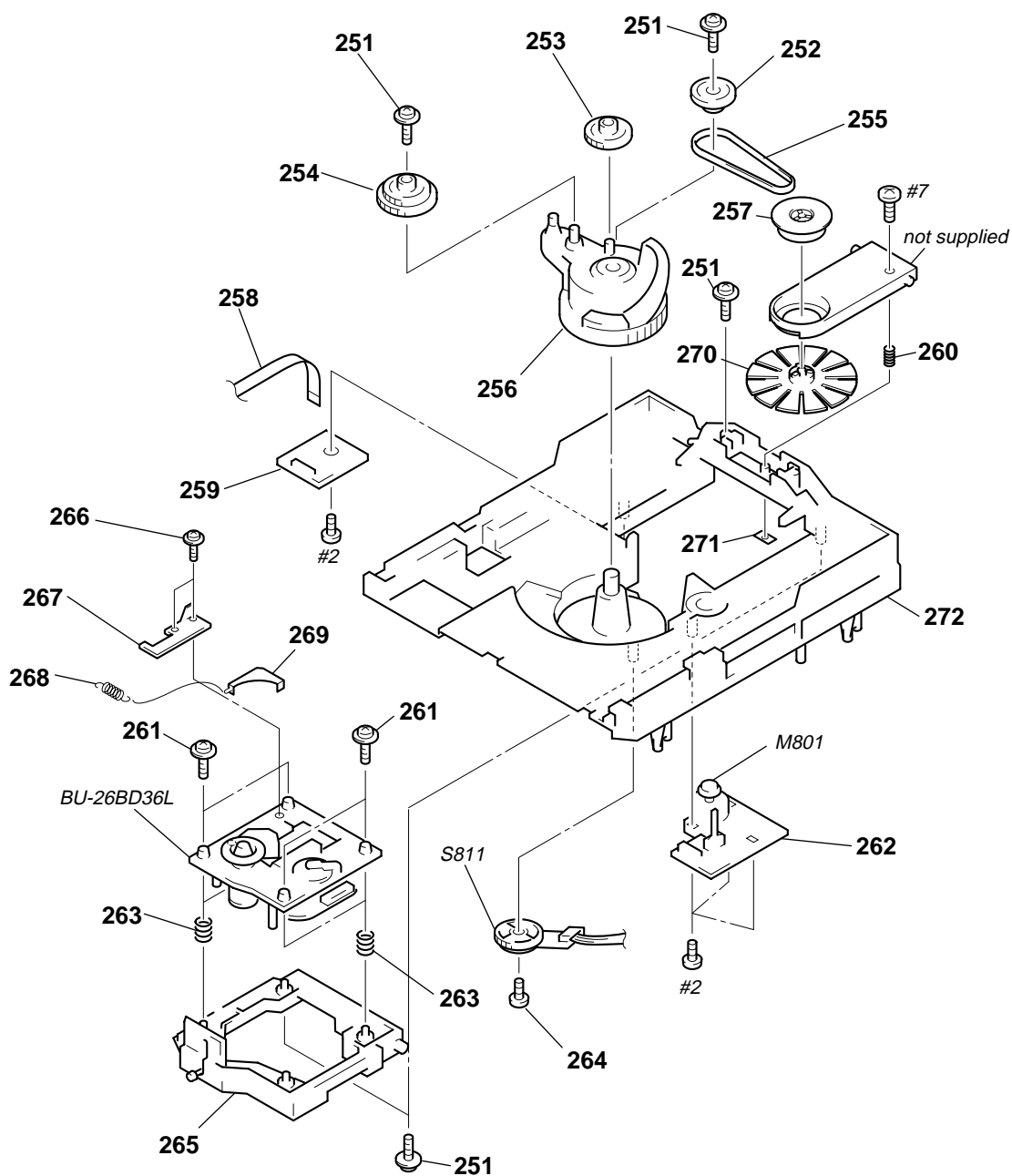
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	X-4950-697-1	HOLDER (L) ASSY, CASSETTE		112	4-962-708-81	EMBLEM (4-A), SONY	
102	X-4951-068-2	HOLDER (R) ASSY, CASSETTE		113	X-4952-128-1	PANEL ASSY, FRONT	
103	4-214-760-11	CATCHER (A), PUSH		114	A-4426-760-A	CD SW BOARD, COMPLETE	
104	4-214-761-11	CATCHER (B), PUSH		115	4-214-385-11	KNOB (MIC)	
105	4-214-775-13	SPRING, PUSH CATCHER RETURN					
106	4-214-383-11	KNOB (JOG)		116	1-773-189-11	WIRE (FLAT TYPE) (23 CORE)	
107	4-214-384-11	KNOB (VOL)		* 117	4-214-439-11	HOLDER, FL TUBE	
108	4-219-087-01	SPRING, TENSION		118	A-4426-782-A	PANEL BOARD, COMPLETE	
109	4-951-620-01	SCREW (2.6X8), +BVTP		119	X-4952-129-1	PANEL ASSY, SUB	
110	4-215-062-01	DAMPER		120	4-949-935-41	CUSHION (FL)	
111	4-988-663-01	FOOT (FELT)		121	1-674-232-11	PUSH CATCH STOP BOARD	
				FL601	1-517-831-31	INDICATOR TUBE, FLUORESCENT	

7-4. CD MECHANISM DECK SECTION-1 (CDM38LH-26BD36L)



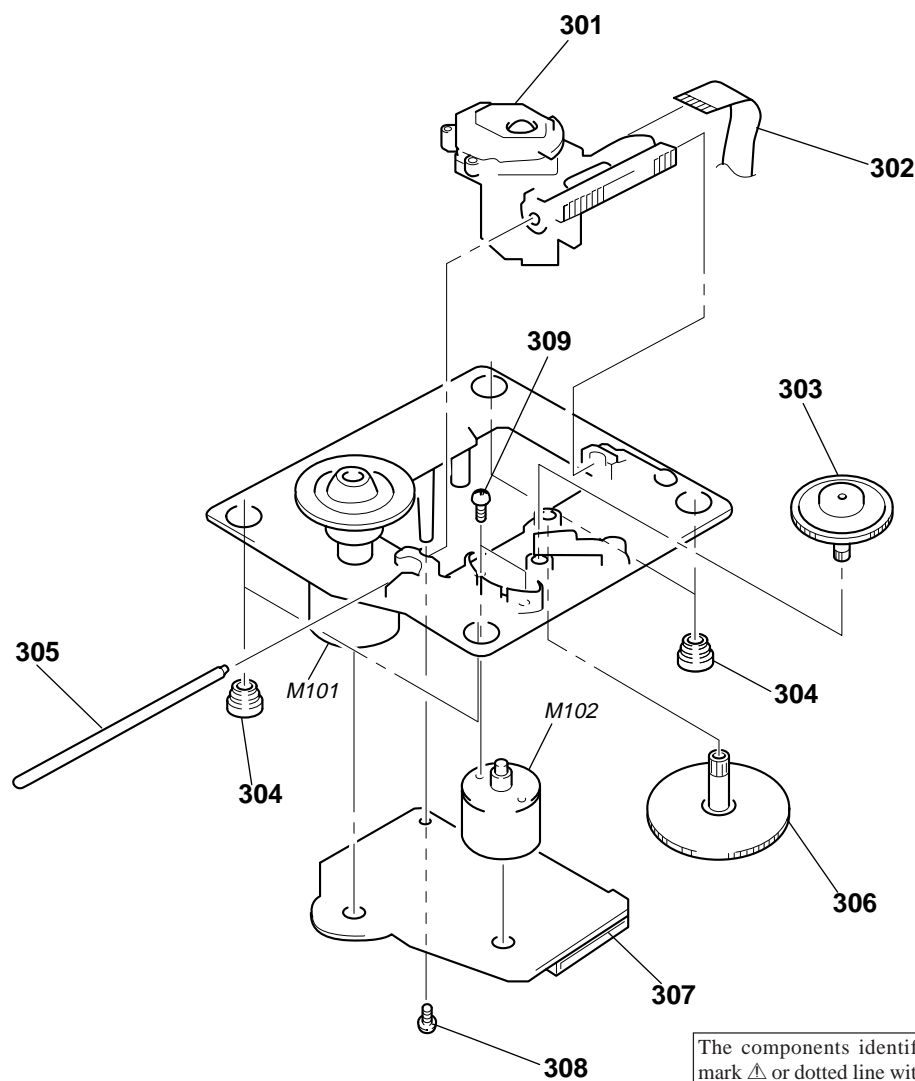
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	4-981-789-01	BRACKET (2), YOKE		207	4-988-162-01	ROLLER	
202	4-977-945-63	TRAY (TURN)		208	4-977-941-01	BEARING (WORM)	
203	X-4946-665-1	SHAFT ASSY, WORM		* 209	1-658-576-11	SENSOR BOARD	
204	4-977-943-01	BELT (TURN) (1.2)		210	4-934-376-01	SHAFT (ROLLER)	
205	4-977-956-01	WHEEL, WORM		211	4-981-187-01	COLLAR (WORM)	
* 206	1-658-577-11	MOTOR (TURN) BOARD		212	4-977-944-01	TRAY (SLIDE)	
				M701	A-4672-004-A	MOTOR ASSY (TURN)	



7-5. CD MECHANISM DECK SECTION-2 (CDM38LH-26BD36L)





Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
251	4-981-789-11	BRACKET (2), YOKE		263	4-982-447-01	SPRING (BU), COMPRESSION	
252	4-977-954-01	PULLEY (SL)		264	4-951-620-41	SCREW (2.6), +BVTP	
253	4-977-953-01	GEAR (SL-A)		265	X-4949-570-1	HOLDER (BU) ASSY	
254	4-977-955-01	GEAR (SL-B)					
255	4-977-942-01	BELT (SL) (1.4)		266	4-989-494-01	SCREW (SLIDER), STEP	
				267	4-989-492-11	SLIDER (38)	
256	X-4946-491-1	CAM ASSY, BU		268	4-989-819-02	SPRING, TENSION	
257	1-452-925-21	MAGNET ASSY		269	4-989-491-01	COVER, LENS	
258	1-776-042-11	WIRE (FLAT TYPE) (8 CORE)		270	4-993-142-03	PULLEY (L), PRESS	
* 259	1-658-575-11	CONNECTOR BOARD		271	4-900-718-01	BRACKET (ADJUSTMENT)	
260	4-900-743-01	SPRING, COMPRESSION		* 272	X-4947-846-1	CHASSIS (CDM) ASSY	
				M801	A-4672-004-A	MOTOR ASSY (SLIDE)	
261	4-985-672-01	SCREW (+PTPWHM2.6), FLOATING		S811	1-473-335-11	ENCODER, ROTARY	
* 262	1-658-578-11	MOTOR (SLIDE) BOARD					

7-6. BASE UNIT SECTION (BU-26BD36L)

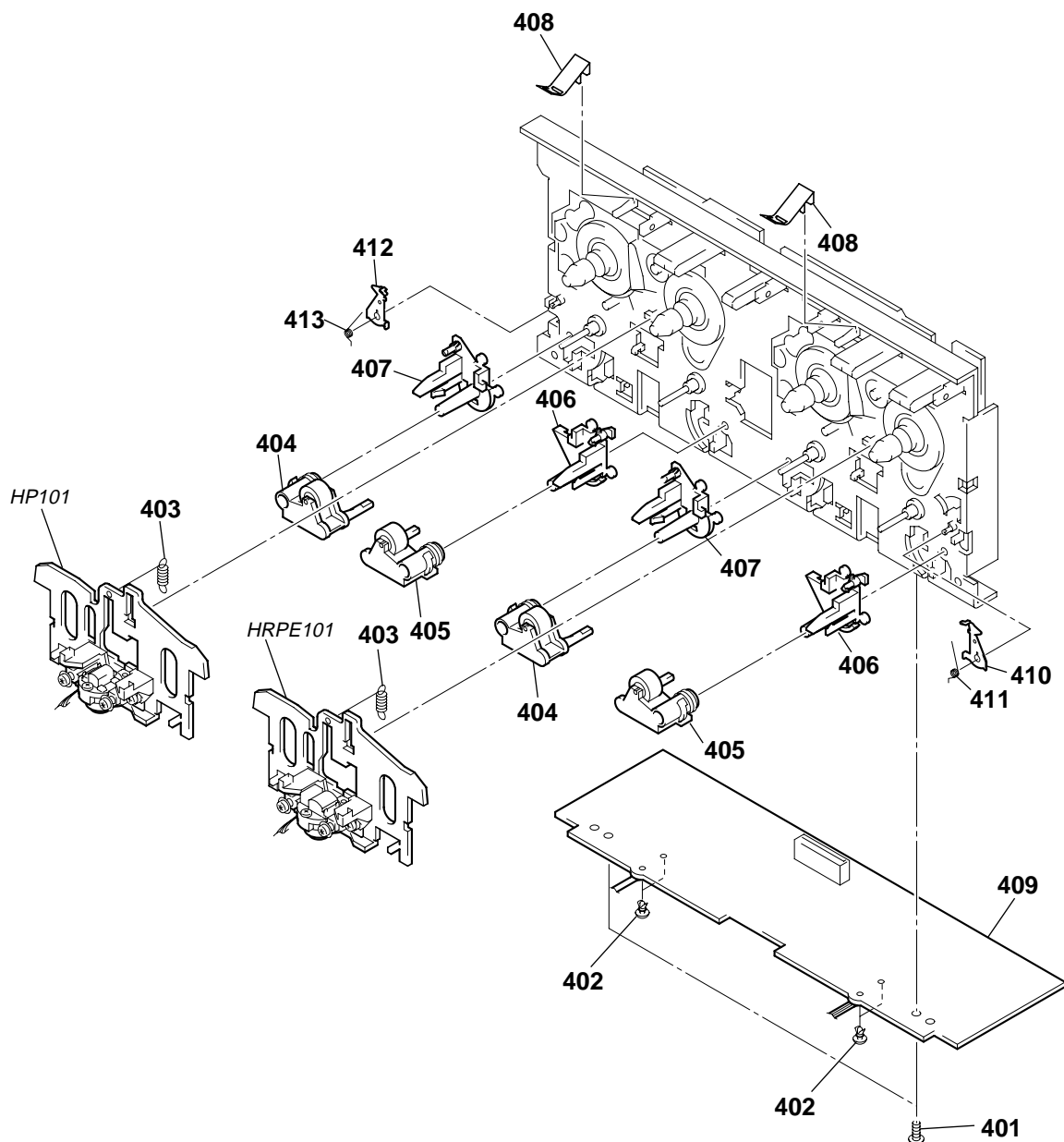


The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

以阴影和  标志来识别的零部件，在安全方面具有关键性。因此只能以规定号码的零部件来更换。

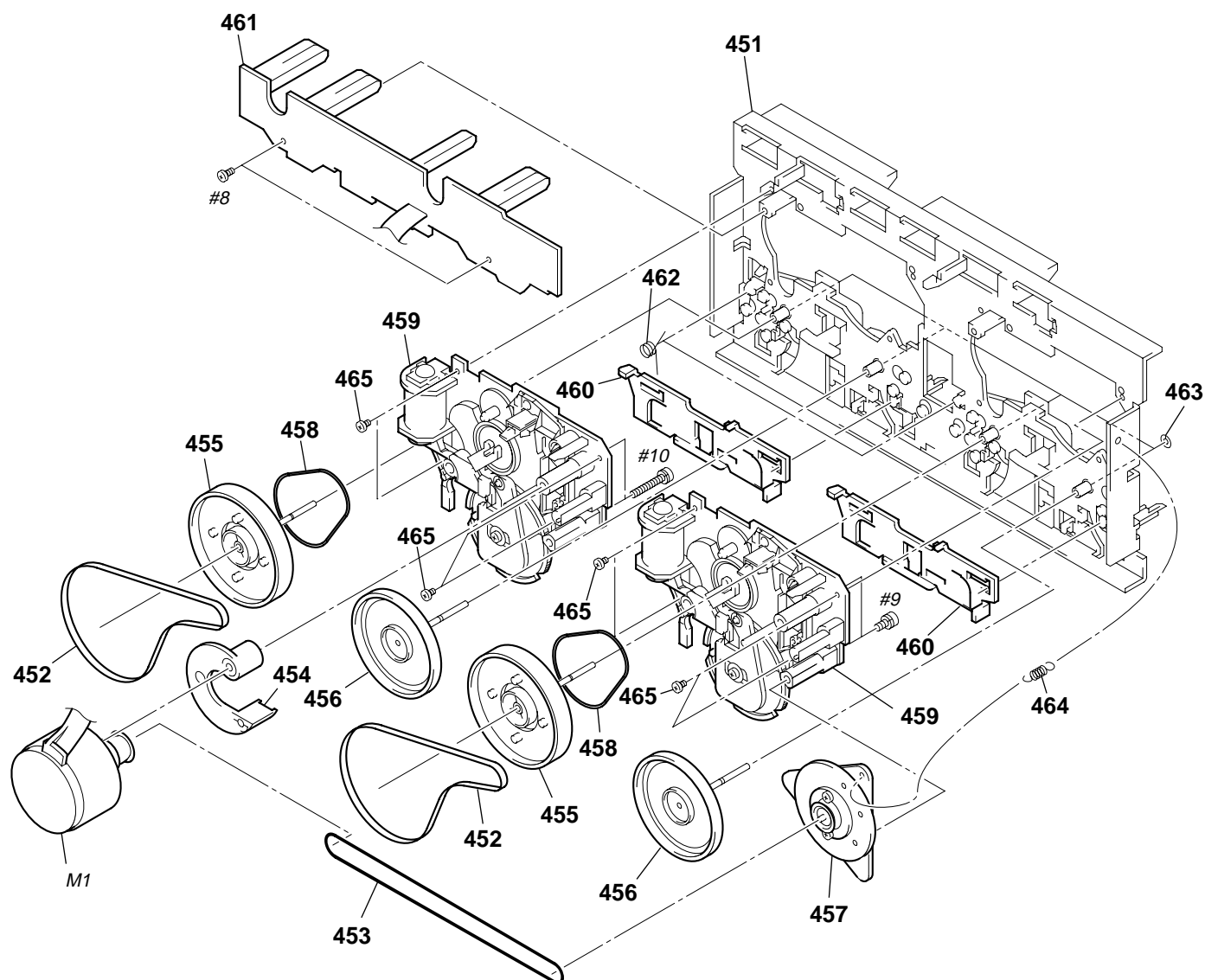
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
 301	8-820-020-02	OPTICAL PICK-UP KSS-213D/Q-NP		306	4-917-564-01	GEAR (P), FLATNESS	
302	1-769-069-11	WIRE (FLAT TYPE) (16 CORE)		307	A-4724-925-A	BD BOARD, COMPLETE	
303	4-917-567-21	GEAR (M)		308	4-951-620-01	SCREW (2.6X8), +BVTP	
304	4-951-940-41	INSULATOR (BU)		309	3-713-786-51	SCREW +P 2X3	
305	4-917-565-01	SHAFT, SLED		M101	X-4917-523-3	MOTOR ASSY (SPINDLE)	
				M102	X-4917-504-1	MOTOR ASSY (SLED)	

7-7. TC MECHANISM SECTION-1 (TCM230AWR2/230PWR2)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
401	3-376-464-11	SCREW(+PTT 2.6X6),GROUND POINT		411	3-032-810-02	SPRING (R), TORSION	
402	3-911-116-42	RIVET, PUSH		412	3-016-572-01	LEVER (EJECT PREVENTION L)	
403	3-016-574-11	SPRING (HEAD), TENSION		413	3-032-809-02	SPRING (L), TORSION	
404	X-3374-156-4	PINCH LEVER (REV) ASSY		HP101	A-2056-681-B	DECK (A) ASSY, HEAD	
405	X-3374-155-4	PINCH LEVER (FWD) ASSY		HRPE101	A-2056-682-B	DECK (B) ASSY, HEAD	
406	3-016-564-01	BASE (PINCH LEVER FWD)					
407	3-016-565-01	BASE (PINCH LEVER REV)					
408	3-026-892-01	SPRING (CASSETTE), LEAF					
409	A-2007-731-A	AUDIO BOARD, COMPLETE					
410	3-016-573-03	LEVER (EJECT PREVENTION R)					

7-8. TC MECHANISM SECTION-2 (TCM230AWR2)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* 451	X-3374-214-4	CHASSIS ASSY, MAIN		461	A-2007-732-A	LEAF SW BOARD, COMPLETE	
452	3-016-570-01	BELT (CAPSTAN)		462	3-016-575-11	SPRING, TORSION	
453	3-016-569-01	BELT (TENSION)		463	3-019-208-01	WASHER, STOPPER	
454	3-017-360-01	BRACKET (MOTOR)		464	3-027-453-01	SPRING (GROUND), TENSION	
455	X-3376-497-3	FLYWHEEL (FWD) ASSY		465	3-030-823-01	SCREW (+BVTT) (2X3.5)	
456	X-3374-235-1	FLYWHEEL (REV) ASSY		M1	A-2004-628-A	MOTOR ASSY, CAPSTAN	
457	X-3374-238-1	PULLEY ASSY, TENSION					
458	3-024-405-01	BELT (FR2)					
459	A-2004-629-A	MECHANICAL BLOCK ASSY					
460	3-016-566-01	SLIDER, REVERSE					

SECTION 8 ELECTRICAL PARTS LIST

3CH AMP

Note:

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

以阴影和 Δ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

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

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

- SEMICONDUCTORS
In each case, u: μ , for example:
uA...: μ A..., uPA...: μ PA..., uPB...: μ PB...,
uPC...: μ PC..., uPD...: μ PD...
- CAPACITORS
uF : μ F
- COILS
uH : μ H

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	A-4426-779-A	3CH AMP BOARD, COMPLETE *****		Q1021	8-729-119-76	TRANSISTOR 2SA1115TP-EF	
		< CAPACITOR >		Q1022	8-729-119-78	TRANSISTOR 2SC2785-HFE	
C1001	1-126-963-11	ELECT 4.7uF 20% 50V		Q1023	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
C1002	1-162-286-31	CERAMIC 220PF 10% 50V		Q1024	8-729-620-05	TRANSISTOR 2SC2603-EF	
C1003	1-162-282-31	CERAMIC 100PF 10% 50V					
C1004	1-104-664-11	ELECT 47uF 20% 10V		Q1051	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
C1005	1-126-965-11	ELECT 22uF 20% 50V		Q1081	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
						< RESISTOR >	
C1006	1-136-165-00	MYLAR 0.1uF 5% 50V		R1001	1-249-417-11	CARBON 1K 5% 1/4W F	
C1007	1-136-495-11	MYLAR 0.068uF 5% 50V		R1002	1-249-438-11	CARBON 56K 5% 1/4W	
C1008	1-136-495-11	MYLAR 0.068uF 5% 50V		R1003	1-249-414-11	CARBON 560 5% 1/4W F	
C1022	1-162-306-11	CERAMIC 0.01uF 30% 16V		R1004	1-249-438-11	CARBON 56K 5% 1/4W	
C1023	1-162-306-11	CERAMIC 0.01uF 30% 16V		Δ R1005	1-212-881-11	FUSIBLE 100 5% 1/4W F	
				Δ R1006	1-217-151-00	METAL 0.22 10% 2W	
C1051	1-126-963-11	ELECT 4.7uF 20% 50V		R1007	1-249-417-11	CARBON 1K 5% 1/4W F	
C1052	1-162-286-31	CERAMIC 220PF 10% 50V		R1008	1-249-431-11	CARBON 15K 5% 1/4W	
C1053	1-162-282-31	CERAMIC 100PF 10% 50V		R1009	1-249-441-11	CARBON 100K 5% 1/4W	
C1054	1-104-664-11	ELECT 47uF 20% 10V		R1010	1-260-076-11	CARBON 10 5% 1/2W	
C1055	1-126-965-11	ELECT 22uF 20% 50V					
C1056	1-136-165-00	MYLAR 0.1uF 5% 50V		R1020	1-249-433-11	CARBON 22K 5% 1/4W	
C1057	1-136-495-11	MYLAR 0.068uF 5% 50V		R1021	1-249-435-11	CARBON 33K 5% 1/4W	
C1058	1-136-495-11	MYLAR 0.068uF 5% 50V		R1022	1-249-433-11	CARBON 22K 5% 1/4W	
C1081	1-126-963-11	ELECT 4.7uF 20% 50V		R1023	1-249-439-11	CARBON 68K 5% 1/4W	
C1082	1-162-286-31	CERAMIC 220PF 10% 50V		R1024	1-249-421-11	CARBON 2.2K 5% 1/4W F	
C1083	1-162-282-31	CERAMIC 100PF 10% 50V		R1025	1-249-433-11	CARBON 22K 5% 1/4W	
C1084	1-104-664-11	ELECT 47uF 20% 10V		R1026	1-249-429-11	CARBON 10K 5% 1/4W	
C1085	1-136-495-11	MYLAR 0.068uF 5% 50V		R1027	1-249-441-11	CARBON 100K 5% 1/4W	
C1086	1-136-495-11	MYLAR 0.068uF 5% 50V		Δ R1028	1-202-972-61	FUSIBLE 1 5% 1/4W F	
				R1029	1-249-441-11	CARBON 100K 5% 1/4W	
		< CONNECTOR >					
CN1001	1-691-767-11	PLUG (MICRO CONNECTOR) 5P		R1030	1-249-441-11	CARBON 100K 5% 1/4W	
CN1002	1-691-772-11	PLUG (MICRO CONNECTOR) 10P		R1031	1-249-437-11	CARBON 47K 5% 1/4W	
				R1051	1-249-417-11	CARBON 1K 5% 1/4W F	
		< DIODE >		R1052	1-249-438-11	CARBON 56K 5% 1/4W	
D1001	8-719-911-19	DIODE 1SS133T-72		R1053	1-249-412-11	CARBON 390 5% 1/4W F	
D1021	8-719-911-19	DIODE 1SS133T-72					
D1051	8-719-911-19	DIODE 1SS133T-72		R1054	1-249-438-11	CARBON 56K 5% 1/4W	
D1081	8-719-911-19	DIODE 1SS133T-72		Δ R1055	1-212-881-11	FUSIBLE 100 5% 1/4W F	
				Δ R1056	1-217-151-00	METAL 0.22 10% 2W	
		< GROUND PLATE >		R1057	1-249-417-11	CARBON 1K 5% 1/4W F	
* EP1001	1-537-738-21	TERMINAL, EARTH		R1058	1-249-431-11	CARBON 15K 5% 1/4W	
		< IC >		R1059	1-249-441-11	CARBON 100K 5% 1/4W	
IC1001	8-749-015-54	IC STK408-040E		R1060	1-260-076-11	CARBON 10 5% 1/2W	
				R1081	1-249-417-11	CARBON 1K 5% 1/4W F	
		< TRANSISTOR >		R1082	1-249-438-11	CARBON 56K 5% 1/4W	
Q1001	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA		R1083	1-249-442-11	CARBON 510 5% 1/4W	
				R1084	1-249-438-11	CARBON 56K 5% 1/4W	
				Δ R1085	1-217-151-00	METAL 0.22 10% 2W	
				R1086	1-249-417-11	CARBON 1K 5% 1/4W F	
				R1087	1-249-431-11	CARBON 15K 5% 1/4W	
				R1088	1-249-441-11	CARBON 100K 5% 1/4W	

3CH AMP

AUDIO

Ref. No.	Part No.	Description	Remark		
R1089	1-260-076-11	CARBON	10	5%	1/2W
< THERMISTOR >					
TH1021	1-807-796-11	THERMISTOR			

A-2007-731-A		AUDIO BOARD, COMPLETE			

< CAPACITOR >					
C301	1-162-289-31	CERAMIC	390PF	10%	50V
C302	1-126-968-11	ELECT	100uF	20%	6.3V
C303	1-162-282-31	CERAMIC	100PF	10%	50V
C304	1-130-483-00	MYLAR	0.01uF	5%	50V
C305	1-107-715-11	ELECT	22uF	20%	16V
C311	1-162-289-31	CERAMIC	390PF	10%	50V
C313	1-162-282-31	CERAMIC	100PF	10%	50V
C314	1-130-487-00	MYLAR	0.022uF	5%	50V
C315	1-126-233-11	ELECT	22uF	20%	50V
C331	1-137-427-11	MYLAR	120PF	5%	50V
C332	1-162-288-31	CERAMIC	330PF	10%	50V
C333	1-162-209-31	CERAMIC	27PF	5%	50V
C401	1-162-289-31	CERAMIC	390PF	10%	50V
C402	1-126-968-11	ELECT	100uF	20%	6.3V
C403	1-162-282-31	CERAMIC	100PF	10%	50V
C404	1-130-483-00	MYLAR	0.01uF	5%	50V
C405	1-107-715-11	ELECT	22uF	20%	16V
C411	1-162-289-31	CERAMIC	390PF	10%	50V
C413	1-162-282-31	CERAMIC	100PF	10%	50V
C414	1-130-487-00	MYLAR	0.022uF	5%	50V
C415	1-126-233-11	ELECT	22uF	20%	50V
C431	1-137-427-11	MYLAR	120PF	5%	50V
C432	1-162-288-31	CERAMIC	330PF	10%	50V
C433	1-162-209-31	CERAMIC	27PF	5%	50V
C601	1-104-396-11	ELECT	10uF	20%	16V
C602	1-104-396-11	ELECT	10uF	20%	16V
C611	1-104-396-11	ELECT	10uF	20%	16V
C612	1-104-396-11	ELECT	10uF	20%	16V
C621	1-137-150-11	FILM	0.01uF	5%	100V
C622	1-126-961-11	ELECT	2.2uF	20%	50V
C623	1-136-155-00	FILM	0.015uF	5%	50V
C624	1-130-481-00	MYLAR	0.0068uF	5%	50V
C625	1-130-481-00	MYLAR	0.0068uF	5%	50V
C627	1-124-903-11	ELECT	1uF	20%	50V
C628	1-136-153-00	FILM	0.01uF	5%	50V
C642	1-104-664-11	ELECT	47uF	20%	16V
< CONNECTOR >					
CN601	1-695-338-11	PIN, CONNECTOR (PC BOARD) 15P			
< IC >					
IC601	8-759-111-44	IC uPC4570C-1			
IC602	8-759-143-54	IC uPC1330HA			
IC611	8-759-111-44	IC uPC4570C-1			

Ref. No.	Part No.	Description	Remark		
< COIL >					
L331	1-410-780-11	INDUCTOR	27mH		
L431	1-410-780-11	INDUCTOR	27mH		
L601	1-414-193-41	INDUCTOR	220uH		
L602	1-414-193-41	INDUCTOR	220uH		
< TRANSISTOR >					
Q621	8-729-142-46	TRANSISTOR	2SC2001TP-LK		
Q622	8-729-142-46	TRANSISTOR	2SC2001TP-LK		
Q623	8-729-801-93	TRANSISTOR	2SD1387-34-TP		
< RESISTOR >					
R301	1-247-881-00	CARBON	120K	5%	1/4W
R302	1-249-409-11	CARBON	220	5%	1/4W F
R303	1-249-433-11	CARBON	22K	5%	1/4W
R304	1-247-889-00	CARBON	270K	5%	1/4W
R305	1-247-858-11	CARBON	13K	5%	1/4W
R311	1-247-881-00	CARBON	120K	5%	1/4W
R312	1-247-807-31	CARBON	100	5%	1/4W
R314	1-247-882-11	CARBON	130K	5%	1/4W
R315	1-247-850-11	CARBON	6.2K	5%	1/4W
R331	1-249-430-11	CARBON	12K	5%	1/4W
R401	1-247-881-00	CARBON	120K	5%	1/4W
R402	1-249-409-11	CARBON	220	5%	1/4W F
R403	1-249-433-11	CARBON	22K	5%	1/4W
R404	1-247-889-00	CARBON	270K	5%	1/4W
R405	1-247-858-11	CARBON	13K	5%	1/4W
R411	1-247-881-00	CARBON	120K	5%	1/4W
R412	1-247-807-31	CARBON	100	5%	1/4W
R414	1-247-882-11	CARBON	130K	5%	1/4W
R415	1-247-850-11	CARBON	6.2K	5%	1/4W
R431	1-249-430-11	CARBON	12K	5%	1/4W
R601	1-249-409-11	CARBON	220	5%	1/4W F
R602	1-249-409-11	CARBON	220	5%	1/4W F
R608	1-249-409-11	CARBON	220	5%	1/4W F
R609	1-249-433-11	CARBON	22K	5%	1/4W
R611	1-249-409-11	CARBON	220	5%	1/4W F
R612	1-249-409-11	CARBON	220	5%	1/4W F
△ R621	1-212-851-00	FUSIBLE	5.6	5%	1/4W F
△ R622	1-212-851-00	FUSIBLE	5.6	5%	1/4W F
R623	1-249-432-11	CARBON	18K	5%	1/4W
R624	1-249-432-11	CARBON	18K	5%	1/4W
R625	1-249-429-11	CARBON	10K	5%	1/4W
< VARIABLE RESISTOR >					
RV301	1-238-598-11	RES, ADJ, CARBON 2.2K (B DECK PB LEVEL L)			
RV311	1-238-598-11	RES, ADJ, CARBON 2.2K (A DECK PB LEVEL L)			
RV341	1-241-768-11	RES, ADJ, CARBON 220K (REC BIAS L)			
RV401	1-238-598-11	RES, ADJ, CARBON 2.2K (B DECK PB LEVEL R)			
RV411	1-238-598-11	RES, ADJ, CARBON 2.2K (A DECK PB LEVEL R)			
RV441	1-241-768-11	RES, ADJ, CARBON 220K (REC BIAS R)			
< TRANSFORMER >					
T621	1-423-980-11	TRANSFORMER, BIAS OSCILLATION			

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

以阴影和 △ 标志来识别的零部件，在安全方面具有关键性。因此只能以规定号码的零部件来更换。

Ref. No.	Part No.	Description	Remark				Ref. No.	Part No.	Description	Remark			
	A-4724-925-A	BD BOARD, COMPLETE *****							< COIL >				
		< CAPACITOR >					L101	1-414-234-22	INDUCTOR CHIP	0uH			
							L102	1-410-377-31	INDUCTOR CHIP	4.7uH			
									< TRANSISTOR >				
C101	1-163-005-11	CERAMIC CHIP	470PF	10%	50V		Q101	8-729-010-08	TRANSISTOR	MSB710-RT1			
C102	1-163-038-91	CERAMIC CHIP	0.1uF		25V		Q102	8-729-120-28	TRANSISTOR	2SC1623-T1-L5L6			
C103	1-163-005-11	CERAMIC CHIP	470PF	10%	50V				< RESISTOR >				
C105	1-126-206-11	ELECT CHIP	100uF	20%	6.3V		R101	1-216-077-91	RES,CHIP	15K	5%	1/10W	
C106	1-164-346-11	CERAMIC CHIP	1uF		16V		R102	1-216-097-91	RES,CHIP	100K	5%	1/10W	
							R103	1-216-077-91	RES,CHIP	15K	5%	1/10W	
C107	1-164-346-11	CERAMIC CHIP	1uF		16V		R104	1-216-085-00	METAL CHIP	33K	5%	1/10W	
C108	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V		R105	1-216-073-00	METAL CHIP	10K	5%	1/10W	
C109	1-163-145-00	CERAMIC CHIP	0.0015uF	5%	50V		R106	1-216-049-91	RES,CHIP	1K	5%	1/10W	
C110	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V		R107	1-216-073-00	METAL CHIP	10K	5%	1/10W	
C111	1-163-251-11	CERAMIC CHIP	100PF	5%	50V		R108	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
							R109	1-216-121-91	RES,CHIP	1M	5%	1/10W	
C112	1-163-038-91	CERAMIC CHIP	0.1uF		25V		R110	1-216-295-91	SHORT	0			
C113	1-163-038-91	CERAMIC CHIP	0.1uF		25V		R112	1-216-025-91	RES,CHIP	100	5%	1/10W	
C115	1-126-607-11	ELECT CHIP	47uF	20%	4V		R123	1-216-073-00	METAL CHIP	10K	5%	1/10W	
C116	1-126-607-11	ELECT CHIP	47uF	20%	4V		R124	1-216-097-91	RES,CHIP	100K	5%	1/10W	
C117	1-126-209-11	ELECT CHIP	100uF	20%	4V		R125	1-216-033-00	METAL CHIP	220	5%	1/10W	
							R126	1-216-033-00	METAL CHIP	220	5%	1/10W	
C118	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V		R127	1-216-033-00	METAL CHIP	220	5%	1/10W	
C119	1-163-233-11	CERAMIC CHIP	18PF	5%	50V		R131	1-216-037-00	METAL CHIP	330	5%	1/10W	
C120	1-109-982-11	CERAMIC CHIP	1uF	10%	10V		R135	1-216-295-91	SHORT	0			
C121	1-109-982-11	CERAMIC CHIP	1uF	10%	10V		R136	1-216-295-91	SHORT	0			
C122	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V		R137	1-216-295-91	SHORT	0			
							R138	1-216-295-91	SHORT	0			
C123	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V		R143	1-216-103-00	METAL CHIP	180K	5%	1/10W	
C124	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V		R144	1-216-103-00	METAL CHIP	180K	5%	1/10W	
C126	1-124-779-00	ELECT CHIP	10uF	20%	16V		R145	1-216-121-91	RES,CHIP	1M	5%	1/10W	
C130	1-163-038-91	CERAMIC CHIP	0.1uF		25V		R146	1-216-121-91	RES,CHIP	1M	5%	1/10W	
C140	1-163-038-91	CERAMIC CHIP	0.1uF		25V								
							R147	1-216-041-00	METAL CHIP	470	5%	1/10W	
C141	1-163-038-91	CERAMIC CHIP	0.1uF		25V		R148	1-216-001-00	METAL CHIP	10	5%	1/10W	
C152	1-163-239-11	CERAMIC CHIP	33PF	5%	50V		R149	1-216-003-11	RES,CHIP	12	5%	1/10W	
C154	1-163-038-91	CERAMIC CHIP	0.1uF		25V		R150	1-216-073-00	METAL CHIP	10K	5%	1/10W	
C159	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V		R152	1-216-073-00	METAL CHIP	10K	5%	1/10W	
C161	1-163-038-91	CERAMIC CHIP	0.1uF		25V								
							R154	1-216-025-91	RES,CHIP	100	5%	1/10W	
C162	1-117-681-11	ELECT CHIP	100uF	20%	16V		R155	1-216-025-91	RES,CHIP	100	5%	1/10W	
C170	1-163-038-91	CERAMIC CHIP	0.1uF		25V		R156	1-216-025-91	RES,CHIP	100	5%	1/10W	
C171	1-163-038-91	CERAMIC CHIP	0.1uF		25V		R157	1-216-025-91	RES,CHIP	100	5%	1/10W	
C180	1-163-137-00	CERAMIC CHIP	680PF	5%	50V		R158	1-216-073-00	METAL CHIP	10K	5%	1/10W	
C181	1-163-137-00	CERAMIC CHIP	680PF	5%	50V								
							R159	1-216-089-91	RES,CHIP	47K	5%	1/10W	
C182	1-163-137-00	CERAMIC CHIP	680PF	5%	50V		R161	1-216-295-91	SHORT	0			
C183	1-163-137-00	CERAMIC CHIP	680PF	5%	50V		R162	1-216-101-00	METAL CHIP	150K	5%	1/10W	
C184	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V		R171	1-216-025-91	RES,CHIP	100	5%	1/10W	
C185	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V		R172	1-216-025-91	RES,CHIP	100	5%	1/10W	
C186	1-128-065-11	ELECT CHIP	68uF	20%	10V								
							R173	1-216-025-91	RES,CHIP	100	5%	1/10W	
C187	1-163-038-91	CERAMIC CHIP	0.1uF		25V		R175	1-216-025-91	RES,CHIP	100	5%	1/10W	
		< CONNECTOR >					R180	1-216-097-91	RES,CHIP	100K	5%	1/10W	
CN101	1-770-708-11	CONNECTOR, FFC/FPC 25P					R181	1-216-100-00	RES,CHIP	130K	5%	1/10W	
CN102	1-777-937-11	CONNECTOR, FFC/FPC 16P					R182	1-216-081-00	METAL CHIP	22K	5%	1/10W	
		< IC >											
IC101	8-752-397-42	IC CXD3008Q					R183	1-216-081-00	METAL CHIP	22K	5%	1/10W	
IC102	8-759-640-22	IC BA5982FM					R184	1-216-070-00	METAL CHIP	7.5K	5%	1/10W	
IC103	8-752-085-51	IC CXA2568M-T6					R185	1-216-070-00	METAL CHIP	7.5K	5%	1/10W	
IC104	8-759-271-86	IC TC7SH04F(TE85R)											

BD	CD SW	CONNECTOR	FRONT AMP
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Ref. No.	Part No.	Description			Remark
R186	1-216-081-00	METAL CHIP	22K	5%	1/10W
R187	1-216-081-00	METAL CHIP	22K	5%	1/10W
R188	1-216-070-00	METAL CHIP	7.5K	5%	1/10W
R189	1-216-070-00	METAL CHIP	7.5K	5%	1/10W
R190	1-216-081-00	METAL CHIP	22K	5%	1/10W
R191	1-216-081-00	METAL CHIP	22K	5%	1/10W
R192	1-216-070-00	METAL CHIP	7.5K	5%	1/10W
R193	1-216-070-00	METAL CHIP	7.5K	5%	1/10W
R203	1-216-025-91	RES,CHIP	100	5%	1/10W
R204	1-216-025-91	RES,CHIP	100	5%	1/10W
R205	1-216-025-91	RES,CHIP	100	5%	1/10W
R206	1-216-295-91	SHORT	0		
< SWITCH >					
S101	1-572-085-11	SWITCH, LEAF (LIMIT SW)			

A-4426-760-A		CD SW BOARD, COMPLETE			

< DIODE >					
D751	8-719-056-13	DIODE SML79423C-TP15 (DISC 1)			
D752	8-719-056-13	DIODE SML79423C-TP15 (DISC 2)			
D753	8-719-056-13	DIODE SML79423C-TP15 (DISC 3)			
D754	8-719-063-93	DIODE SLR325VC-N-T32 (1/⌢)			
< RESISTOR >					
R751	1-249-417-11	CARBON	1K	5%	1/4W F
R752	1-249-418-11	CARBON	1.2K	5%	1/4W F
R753	1-249-420-11	CARBON	1.8K	5%	1/4W F
R754	1-249-422-11	CARBON	2.7K	5%	1/4W F
R755	1-247-843-11	CARBON	3.3K	5%	1/4W
R756	1-249-425-11	CARBON	4.7K	5%	1/4W F
R757	1-249-427-11	CARBON	6.8K	5%	1/4W F
R758	1-247-804-11	CARBON	75	5%	1/4W
R759	1-249-407-11	CARBON	150	5%	1/4W F
R760	1-247-804-11	CARBON	75	5%	1/4W
R761	1-249-407-11	CARBON	150	5%	1/4W F
R762	1-247-804-11	CARBON	75	5%	1/4W
R763	1-249-407-11	CARBON	150	5%	1/4W F
R764	1-249-414-11	CARBON	560	5%	1/4W F
< SWITCH >					
S751	1-762-875-21	SWITCH, KEYBOARD (1/⌢)			
S752	1-762-875-21	SWITCH, KEYBOARD (DEMO (STANDBY))			
S753	1-762-875-21	SWITCH, KEYBOARD (DISC1)			
S754	1-762-875-21	SWITCH, KEYBOARD (DISC2)			
S755	1-762-875-21	SWITCH, KEYBOARD (DISC3)			
S756	1-762-875-21	SWITCH, KEYBOARD (EXCHAGE DISC SKIP)			
S757	1-762-875-21	SWITCH, KEYBOARD (≡)			

*	1-658-575-11	CONNECTOR BOARD			

< CONNECTOR >					
* CN701	1-568-946-11	PIN, CONNECTOR 8P			
CN702	1-750-413-11	CONNECTOR. FFC/FPC 8P			

Ref. No.	Part No.	Description			Remark
< TRANSISTOR >					
Q701	8-729-900-80	TRANSISTOR	BA1A4M-TP		
< RESISTOR >					
R703	1-249-435-11	CARBON	33K	5%	1/4W
R704	1-249-429-11	CARBON	10K	5%	1/4W
R705	1-249-417-11	CARBON	1K	5%	1/4W F

A-4426-776-A		FRONT AMP BOARD, COMPLETE			

< CAPACITOR >					
C801	1-126-963-11	ELECT	4.7uF	20%	50V
C802	1-162-286-31	CERAMIC	220PF	10%	50V
C803	1-162-282-31	CERAMIC	100PF	10%	50V
C804	1-104-664-11	ELECT	47uF	20%	10V
C806	1-128-560-11	ELECT	22uF	20%	100V
C807	1-130-777-00	MYLAR	0.1uF	10%	100V
C808	1-136-495-11	MYLAR	0.068uF	5%	50V
C809	1-136-495-11	MYLAR	0.068uF	5%	50V
C810	1-136-165-00	MYLAR	0.1uF	5%	50V
C811	1-136-165-00	MYLAR	0.1uF	5%	50V
C812	1-161-494-00	CERAMIC	0.022uF	25V	
C821	1-128-562-11	ELECT	47uF	20%	100V
C822	1-162-306-11	CERAMIC	0.01uF	30%	16V
C823	1-162-306-11	CERAMIC	0.01uF	30%	16V
C825	1-104-665-11	ELECT	100uF	20%	10V
C826	1-126-961-11	ELECT	2.2uF	20%	50V
C827	1-104-665-11	ELECT	100uF	20%	10V
C831	1-126-968-11	ELECT	100uF	20%	50V
C851	1-126-963-11	ELECT	4.7uF	20%	50V
C852	1-162-286-31	CERAMIC	220PF	10%	50V
C853	1-162-282-31	CERAMIC	100PF	10%	50V
C854	1-104-664-11	ELECT	47uF	20%	10V
C856	1-128-560-11	ELECT	22uF	20%	100V
C857	1-130-777-00	MYLAR	0.1uF	10%	100V
C858	1-136-495-11	MYLAR	0.068uF	5%	50V
C859	1-136-495-11	MYLAR	0.068uF	5%	50V
C860	1-136-165-00	MYLAR	0.1uF	5%	50V
C861	1-136-165-00	MYLAR	0.1uF	5%	50V
C862	1-161-494-00	CERAMIC	0.022uF	25V	
C871	1-136-165-00	MYLAR	0.1uF	5%	50V
C872	1-136-165-00	MYLAR	0.1uF	5%	50V
C873	1-136-165-00	MYLAR	0.1uF	5%	50V
C874	1-136-165-00	MYLAR	0.1uF	5%	50V
C875	1-136-165-00	MYLAR	0.1uF	5%	50V
C876	1-136-165-00	MYLAR	0.1uF	5%	50V
C877	1-161-494-00	CERAMIC	0.022uF	25V	
C878	1-161-494-00	CERAMIC	0.022uF	25V	
C879	1-161-494-00	CERAMIC	0.022uF	25V	
C880	1-126-963-11	ELECT	4.7uF	20%	50V
C881	1-127-751-11	ELECT	3300uF	20%	50V
C882	1-127-751-11	ELECT	3300uF	20%	50V
C883	1-127-753-11	ELECT	3300uF	20%	71V
C884	1-127-753-11	ELECT	3300uF	20%	71V
C885	1-136-165-00	MYLAR	0.1uF	5%	50V

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C886	1-136-165-00	MYLAR	0.1uF	5%	50V	< RESISTOR >					
C887	1-130-777-00	MYLAR	0.1uF	10%	100V	R801	1-249-417-11	CARBON	1K	5%	1/4W F
C888	1-130-777-00	MYLAR	0.1uF	10%	100V	R802	1-249-438-11	CARBON	56K	5%	1/4W
C889	1-164-159-11	CERAMIC	0.1uF		50V	R803	1-249-416-11	CARBON	820	5%	1/4W F
C890	1-164-159-11	CERAMIC	0.1uF		50V	R804	1-249-438-11	CARBON	56K	5%	1/4W
< CONNECTOR >						△ R805	1-212-881-11	FUSIBLE	100	5%	1/4W F
CN801	1-770-722-11	CONNECTOR, BOARD TO BOARD 6P				R806	1-260-335-11	CARBON	3.9K	5%	1/2W
CN802	1-778-981-11	CONNECTOR, BOARD TO BOARD 13P				△ R807	1-217-156-00	METAL	0.22	10%	5W
< DIODE >						R808	1-249-417-11	CARBON	1K	5%	1/4W F
						R809	1-249-431-11	CARBON	15K	5%	1/4W
						R810	1-249-441-11	CARBON	100K	5%	1/4W
D801	8-719-110-09	DIODE RD8.2ES-B3				R811	1-260-076-11	CARBON	10	5%	1/2W
D802	8-719-911-19	DIODE 1SS133T-72				R812	1-260-076-11	CARBON	10	5%	1/2W
D821	8-719-911-19	DIODE 1SS133T-72				R813	1-260-076-11	CARBON	10	5%	1/2W
D831	8-719-911-19	DIODE 1SS133T-72				R814	1-249-437-11	CARBON	47K	5%	1/4W
D851	8-719-110-09	DIODE RD8.2ES-B3				R821	1-249-435-11	CARBON	33K	5%	1/4W
D852	8-719-911-19	DIODE 1SS133T-72				R822	1-249-433-11	CARBON	22K	5%	1/4W
D871	8-719-911-19	DIODE 1SS133T-72				R823	1-249-439-11	CARBON	68K	5%	1/4W
D881	8-719-510-68	DIODE D5SBA20F101				R824	1-249-421-11	CARBON	2.2K	5%	1/4W F
D882	8-719-510-68	DIODE D5SBA20F101				R825	1-249-433-11	CARBON	22K	5%	1/4W
D883	8-719-911-19	DIODE 1SS133T-72				R826	1-249-429-11	CARBON	10K	5%	1/4W
D884	8-719-911-19	DIODE 1SS133T-72				R827	1-249-421-11	CARBON	2.2K	5%	1/4W F
D885	8-719-911-19	DIODE 1SS133T-72				△ R828	1-202-972-61	FUSIBLE	1	5%	1/4W F
< GROUND PLATE >						R832	1-249-431-11	CARBON	15K	5%	1/4W
						R833	1-249-435-11	CARBON	33K	5%	1/4W
* EP801	1-537-738-21	TERMINAL, EARTH				R835	1-249-425-11	CARBON	4.7K	5%	1/4W F
* EP802	1-537-738-21	TERMINAL, EARTH				R836	1-249-425-11	CARBON	4.7K	5%	1/4W F
< IC >						R837	1-249-433-11	CARBON	22K	5%	1/4W
						R838	1-249-435-11	CARBON	33K	5%	1/4W
IC801	8-749-016-11	IC STK411-230M				R839	1-249-429-11	CARBON	10K	5%	1/4W
< COIL >						R840	1-249-429-11	CARBON	10K	5%	1/4W
L801	1-420-872-00	COIL, AIR-CORE				R841	1-249-437-11	CARBON	47K	5%	1/4W
L851	1-420-872-00	COIL, AIR-CORE				R842	1-249-438-11	CARBON	56K	5%	1/4W
L871	1-420-872-00	COIL, AIR-CORE				R843	1-249-439-11	CARBON	68K	5%	1/4W
L872	1-420-872-00	COIL, AIR-CORE				R844	1-249-438-11	CARBON	56K	5%	1/4W
L873	1-420-872-00	COIL, AIR-CORE				R845	1-249-437-11	CARBON	47K	5%	1/4W
< TRANSISTOR >						R851	1-249-417-11	CARBON	1K	5%	1/4W F
Q801	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA				R852	1-249-438-11	CARBON	56K	5%	1/4W
Q821	8-729-140-82	TRANSISTOR 2SA988-PAFAEA				R853	1-249-416-11	CARBON	820	5%	1/4W F
Q822	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA				R854	1-249-438-11	CARBON	56K	5%	1/4W
Q825	8-729-620-05	TRANSISTOR 2SC2603-EF				△ R855	1-212-881-11	FUSIBLE	100	5%	1/4W F
Q826	8-729-620-05	TRANSISTOR 2SC2603-EF				R856	1-260-335-11	CARBON	3.9K	5%	1/2W
Q827	8-729-620-05	TRANSISTOR 2SC2603-EF				△ R857	1-217-156-00	METAL	0.22	10%	5W
Q828	8-729-140-82	TRANSISTOR 2SA988-PAFAEA				R858	1-249-417-11	CARBON	1K	5%	1/4W F
Q829	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA				R859	1-249-431-11	CARBON	15K	5%	1/4W
Q830	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA				R860	1-249-441-11	CARBON	100K	5%	1/4W
Q831	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA				R861	1-260-076-11	CARBON	10	5%	1/2W
Q832	8-729-620-05	TRANSISTOR 2SC2603-EF				R862	1-260-076-11	CARBON	10	5%	1/2W
Q851	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA				R863	1-260-076-11	CARBON	10	5%	1/2W
Q881	8-729-140-82	TRANSISTOR 2SA988-PAFAEA				R864	1-249-437-11	CARBON	47K	5%	1/4W
Q882	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA				R871	1-249-437-11	CARBON	47K	5%	1/4W
Q883	8-729-140-82	TRANSISTOR 2SA988-PAFAEA				R872	1-249-437-11	CARBON	47K	5%	1/4W
Q884	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA				R873	1-249-437-11	CARBON	47K	5%	1/4W
Q885	8-729-140-82	TRANSISTOR 2SA988-PAFAEA				R874	1-260-076-11	CARBON	10	5%	1/2W
Q886	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA				R875	1-260-076-11	CARBON	10	5%	1/2W
Q887	8-729-140-82	TRANSISTOR 2SA988-PAFAEA				R876	1-260-076-11	CARBON	10	5%	1/2W
The components identified by								以阴影和△标志来识别的零件			

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

以阴影和 △ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

LEAF SW

MAIN

Ref. No.	Part No.	Description	Remark		
R877	1-260-076-11	CARBON	10	5%	1/2W
R878	1-260-076-11	CARBON	10	5%	1/2W
R879	1-260-076-11	CARBON	10	5%	1/2W
R881	1-249-429-11	CARBON	10K	5%	1/4W
R882	1-249-437-11	CARBON	47K	5%	1/4W
R883	1-249-429-11	CARBON	10K	5%	1/4W
R884	1-249-441-11	CARBON	100K	5%	1/4W
△ R885	1-216-457-00	METAL OXIDE	1.2K	5%	2W F
R886	1-249-429-11	CARBON	10K	5%	1/4W
R887	1-249-437-11	CARBON	47K	5%	1/4W
R888	1-249-429-11	CARBON	10K	5%	1/4W
R889	1-249-441-11	CARBON	100K	5%	1/4W
△ R890	1-216-457-00	METAL OXIDE	1.2K	5%	2W F
R891	1-249-429-11	CARBON	10K	5%	1/4W
R892	1-249-437-11	CARBON	47K	5%	1/4W
R893	1-249-429-11	CARBON	10K	5%	1/4W
R894	1-249-441-11	CARBON	100K	5%	1/4W
△ R895	1-216-457-00	METAL OXIDE	1.2K	5%	2W F
R896	1-249-433-11	CARBON	22K	5%	1/4W
R897	1-249-433-11	CARBON	22K	5%	1/4W

< RELAY >

RY881	1-755-168-11	RELAY
RY882	1-515-920-11	RELAY (24V)
RY883	1-515-920-11	RELAY (24V)

< TERMINAL >

TM801	1-537-842-11	TERMINAL BOARD (FRONT SPEAKER)
TM802	1-537-510-31	TERMINAL BOARD (SPEAKER) (6P) (SURROUND SPEAKER)

A-2007-732-A LEAF SW BOARD, COMPLETE

< CAPACITOR >

C1001	1-107-716-11	ELECT	33uF	20%	10V
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< CONNECTOR >

CN1001	1-784-459-11	CONNECTOR, FFC/FPC 17P
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< DIODE >

D1001	8-719-911-19	DIODE 1SS133T-72
D1002	8-719-911-19	DIODE 1SS133T-72

< CABLE HOLDER >

* DM1001	1-784-581-11	HOLDER, CABLE (2.5MM PITCH) 4P
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< IC >

IC1001	8-749-014-38	PHOTO INTERRUPTER SG-264
IC1002	8-749-014-38	PHOTO INTERRUPTER SG-264

< TRANSISTOR >

Q1001	8-729-029-56	TRANSISTOR DTA144ESA
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Ref. No.	Part No.	Description	Remark		
< RESISTOR >					
R907	1-247-879-11	CARBON	100K	5%	1/4W
R1001	1-249-409-11	CARBON	220	5%	1/4W F
R1002	1-249-409-11	CARBON	220	5%	1/4W F
R1003	1-249-414-11	CARBON	560	5%	1/4W F
R1004	1-247-834-11	CARBON	1.3K	5%	1/4W
R1005	1-247-818-11	CARBON	300	5%	1/4W
R1006	1-247-864-11	CARBON	24K	5%	1/4W
R1007	1-247-856-00	CARBON	11K	5%	1/4W
R1008	1-249-417-11	CARBON	1K	5%	1/4W F

< VARIABLE RESISTOR >

RV1001	1-241-785-11	RES, ADJ, CARBON 10K (TAPE SPEED (NORMAL))
RV1002	1-241-785-11	RES, ADJ, CARBON 10K (TAPE SPEED (HIGH))

< SWITCH >

S1001	1-570-953-11	SWITCH, PUSH (1 KEY) (A PLAY)
S1002	1-570-953-11	SWITCH, PUSH (1 KEY) (B PLAY)
S1003	1-771-333-11	SWITCH, LEAF (A HALF)
S1004	1-771-205-11	SWITCH, LEAF (A 120/70)
S1005	1-771-205-11	SWITCH, LEAF (REC A)

S1006	1-771-333-11	SWITCH, LEAF (B HALF)
S1008	1-771-205-11	SWITCH, LEAF (B 120/70)
S1009	1-771-205-11	SWITCH, LEAF (REC B)

A-4426-786-A MAIN BOARD, COMPLETE

< CAPACITOR >

C101	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C102	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C103	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C104	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C111	1-137-195-11	MYLAR	0.56uF	5%	50V

C112	1-136-158-00	MYLAR	0.027uF	5%	50V
C113	1-136-167-00	MYLAR	0.15uF	5%	50V
C114	1-130-480-00	MYLAR	0.0056uF	5%	50V
C115	1-136-159-00	MYLAR	0.033uF	5%	50V
C116	1-130-473-00	MYLAR	0.0015uF	5%	50V

C117	1-136-153-00	FILM	0.01uF	5%	50V
C118	1-110-341-11	MYLAR	330PF	5%	50V
C119	1-130-479-00	MYLAR	0.0047uF	5%	50V
C120	1-130-477-00	MYLAR	0.0033uF	5%	50V
C121	1-126-964-11	ELECT	10uF	20%	50V

C122	1-163-006-11	CERAMIC CHIP	560PF	10%	50V
C123	1-136-169-00	MYLAR	0.22uF	5%	50V
C124	1-136-169-00	MYLAR	0.22uF	5%	50V
C125	1-126-964-11	ELECT	10uF	20%	50V
C127	1-136-153-00	FILM	0.01uF	5%	50V

C128	1-136-495-11	MYLAR	0.068uF	5%	50V
C131	1-104-664-11	ELECT	47uF	20%	16V
C132	1-104-664-11	ELECT	47uF	20%	16V
C134	1-126-964-11	ELECT	10uF	20%	50V
C141	1-126-959-11	ELECT	0.47uF	20%	50V

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

以阴影和 △ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C151	1-163-001-11	CERAMIC CHIP	220PF	10%	50V	C258	1-136-157-00	MYLAR	0.022uF	5%	50V
C152	1-163-001-11	CERAMIC CHIP	220PF	10%	50V	C259	1-136-165-00	MYLAR	0.1uF	5%	50V
C153	1-163-001-11	CERAMIC CHIP	220PF	10%	50V						
C161	1-137-195-11	MYLAR	0.56uF	5%	50V	C260	1-130-469-00	MYLAR	680PF	5%	50V
C162	1-136-158-00	MYLAR	0.027uF	5%	50V	C261	1-136-153-00	FILM	0.01uF	5%	50V
						C262	1-130-469-00	MYLAR	680PF	5%	50V
C163	1-136-167-00	MYLAR	0.15uF	5%	50V	C263	1-136-153-00	FILM	0.01uF	5%	50V
C164	1-130-480-00	MYLAR	0.0056uF	5%	50V	C264	1-136-153-00	FILM	0.01uF	5%	50V
C165	1-136-159-00	MYLAR	0.033uF	5%	50V						
C166	1-130-473-00	MYLAR	0.0015uF	5%	50V	C265	1-136-153-00	FILM	0.01uF	5%	50V
C167	1-136-153-00	FILM	0.01uF	5%	50V	C266	1-104-664-11	ELECT	47uF	20%	16V
						C267	1-130-481-00	MYLAR	0.0068uF	5%	50V
C168	1-110-341-11	MYLAR	330PF	5%	50V	C268	1-126-963-11	ELECT	4.7uF	20%	50V
C169	1-130-479-00	MYLAR	0.0047uF	5%	50V	C269	1-126-934-11	ELECT	220uF	20%	16V
C170	1-130-477-00	MYLAR	0.0033uF	5%	50V						
C171	1-126-964-11	ELECT	10uF	20%	50V	C270	1-126-934-11	ELECT	220uF	20%	16V
C172	1-163-006-11	CERAMIC CHIP	560PF	10%	50V	C272	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
						C273	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C173	1-136-169-00	MYLAR	0.22uF	5%	50V	C274	1-126-964-11	ELECT	10uF	20%	50V
C174	1-136-169-00	MYLAR	0.22uF	5%	50V	C275	1-126-964-11	ELECT	10uF	20%	50V
C175	1-126-964-11	ELECT	10uF	20%	50V						
C191	1-163-001-11	CERAMIC CHIP	220PF	10%	50V	C276	1-126-964-11	ELECT	10uF	20%	50V
C201	1-126-964-11	ELECT	10uF	20%	50V	C277	1-126-964-11	ELECT	10uF	20%	50V
						C278	1-126-964-11	ELECT	10uF	20%	50V
C202	1-126-964-11	ELECT	10uF	20%	50V	C279	1-126-964-11	ELECT	10uF	20%	50V
C204	1-126-959-11	ELECT	0.47uF	20%	50V	C280	1-126-964-11	ELECT	10uF	20%	50V
C207	1-136-165-00	MYLAR	0.1uF	5%	50V						
C208	1-136-165-00	MYLAR	0.1uF	5%	50V	C281	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C210	1-126-959-11	ELECT	0.47uF	20%	50V	C282	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
						C283	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C212	1-126-959-11	ELECT	0.47uF	20%	50V	C284	1-126-959-11	ELECT	0.47uF	20%	50V
C215	1-126-959-11	ELECT	0.47uF	20%	50V	C285	1-126-959-11	ELECT	0.47uF	20%	50V
C217	1-126-959-11	ELECT	0.47uF	20%	50V						
C218	1-136-165-00	MYLAR	0.1uF	5%	50V	C291	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C219	1-163-038-91	CERAMIC CHIP	0.1uF		25V	C292	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
						C293	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C221	1-126-964-11	ELECT	10uF	20%	50V	C294	1-126-959-11	ELECT	0.47uF	20%	50V
C224	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	C301	1-126-960-11	ELECT	1uF	20%	50V
C225	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V						
C226	1-126-960-11	ELECT	1uF	20%	50V	C302	1-130-479-00	MYLAR	0.0047uF	5%	50V
C228	1-130-479-00	MYLAR	0.0047uF	5%	50V	C303	1-136-165-00	MYLAR	0.1uF	5%	50V
						C304	1-136-165-00	MYLAR	0.1uF	5%	50V
C229	1-130-471-00	MYLAR	0.001uF	5%	50V	C305	1-126-964-11	ELECT	10uF	20%	50V
C231	1-136-165-00	MYLAR	0.1uF	5%	50V	C306	1-126-960-11	ELECT	1uF	20%	50V
C233	1-136-169-00	MYLAR	0.22uF	5%	50V						
C234	1-136-169-00	MYLAR	0.22uF	5%	50V	C307	1-126-959-11	ELECT	0.47uF	20%	50V
C235	1-136-165-00	MYLAR	0.1uF	5%	50V	C308	1-126-964-11	ELECT	10uF	20%	50V
						C309	1-137-194-81	MYLAR	0.47uF	5%	50V
C237	1-130-479-00	MYLAR	0.0047uF	5%	50V	C310	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C238	1-130-471-00	MYLAR	0.001uF	5%	50V	C311	1-126-964-11	ELECT	10uF	20%	50V
C240	1-126-960-11	ELECT	1uF	20%	50V						
C243	1-130-480-00	MYLAR	0.0056uF	5%	50V	C312	1-126-959-11	ELECT	0.47uF	20%	50V
C244	1-136-161-00	MYLAR	0.047uF	5%	50V	C313	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
						C314	1-126-964-11	ELECT	10uF	20%	50V
C245	1-136-175-00	MYLAR	0.68uF	5%	50V	C315	1-126-963-11	ELECT	4.7uF	20%	50V
C246	1-136-169-00	MYLAR	0.22uF	5%	50V	C316	1-126-933-11	ELECT	100uF	20%	16V
C247	1-136-169-00	MYLAR	0.22uF	5%	50V						
C248	1-126-963-11	ELECT	4.7uF	20%	50V	C317	1-126-933-11	ELECT	100uF	20%	16V
C249	1-126-963-11	ELECT	4.7uF	20%	50V	C320	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
						C351	1-126-960-11	ELECT	1uF	20%	50V
C250	1-136-169-00	MYLAR	0.22uF	5%	50V	C352	1-130-479-00	MYLAR	0.0047uF	5%	50V
C251	1-136-169-00	MYLAR	0.22uF	5%	50V	C353	1-136-165-00	MYLAR	0.1uF	5%	50V
C252	1-136-165-00	MYLAR	0.1uF	5%	50V						
C253	1-136-161-00	MYLAR	0.047uF	5%	50V	C354	1-136-165-00	MYLAR	0.1uF	5%	50V
C254	1-136-161-00	MYLAR	0.047uF	5%	50V	C355	1-126-964-11	ELECT	10uF	20%	50V
						C356	1-126-960-11	ELECT	1uF	20%	50V
C255	1-136-165-00	MYLAR	0.1uF	5%	50V	C357	1-126-959-11	ELECT	0.47uF	20%	50V
C256	1-136-165-00	MYLAR	0.1uF	5%	50V	C358	1-126-964-11	ELECT	10uF	20%	50V
C257	1-136-157-00	MYLAR	0.022uF	5%	50V						

Ref. No.	Part No.	Description			Remark
C359	1-137-194-81	MYLAR	0.47uF	5%	50V
C373	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C374	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C401	1-126-961-11	ELECT	2.2uF	20%	50V
C403	1-107-721-11	ELECT	4.7uF	20%	100V
C411	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C412	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C413	1-126-916-11	ELECT	1000uF	20%	6.3V
C415	1-126-925-11	ELECT	470uF	20%	10V
C416	1-126-916-11	ELECT	1000uF	20%	6.3V
C421	1-107-717-11	ELECT	47uF	20%	50V
C423	1-126-933-11	ELECT	100uF	20%	16V
C431	1-163-038-91	CERAMIC CHIP	0.1uF	25V	
C432	1-126-963-11	ELECT	4.7uF	20%	50V
C451	1-126-961-11	ELECT	2.2uF	20%	50V
C453	1-107-721-11	ELECT	4.7uF	20%	100V
C501	1-126-964-11	ELECT	10uF	20%	50V
C502	1-136-165-00	MYLAR	0.1uF	5%	50V
C503	1-136-165-00	MYLAR	0.1uF	5%	50V
C504	1-126-926-11	ELECT	1000uF	20%	10V
C506	1-107-713-11	ELECT	4.7uF	20%	50V
C510	1-163-233-11	CERAMIC CHIP	18PF	5%	50V
C511	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C512	1-163-038-91	CERAMIC CHIP	0.1uF	25V	
C516	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C517	1-126-933-11	ELECT	100uF	20%	16V
C549	1-126-964-11	ELECT	10uF	20%	50V
C562	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C563	1-126-933-11	ELECT	100uF	20%	16V
C598	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C599	1-126-933-11	ELECT	100uF	20%	16V
C901	1-136-165-00	MYLAR	0.1uF	5%	50V
C902	1-126-939-11	ELECT	10000uF	20%	16V
C903	1-126-933-11	ELECT	100uF	20%	16V
C904	1-126-924-11	ELECT	330uF	20%	10V
C905	1-104-664-11	ELECT	47uF	20%	16V
C906	1-136-165-00	MYLAR	0.1uF	5%	50V
C907	1-128-548-11	ELECT	4700uF	20%	25V
C908	1-126-964-11	ELECT	10uF	20%	50V
C909	1-126-916-11	ELECT	1000uF	20%	6.3V
C912	1-126-964-11	ELECT	10uF	20%	50V
C913	1-126-933-11	ELECT	100uF	20%	16V
C914	1-126-964-11	ELECT	10uF	20%	50V
C915	1-126-933-11	ELECT	100uF	20%	16V
C916	1-126-964-11	ELECT	10uF	20%	50V
C917	1-126-767-11	ELECT	1000uF	20%	16V
C918	1-104-664-11	ELECT	47uF	20%	16V
C919	1-163-038-91	CERAMIC CHIP	0.1uF	25V	
C920	1-126-933-11	ELECT	100uF	20%	16V
C921	1-126-964-11	ELECT	10uF	20%	50V
C922	1-126-916-11	ELECT	1000uF	20%	6.3V
C923	1-163-038-91	CERAMIC CHIP	0.1uF	25V	
C924	1-104-656-11	ELECT	2200uF	20%	6.3V
C925	1-163-038-91	CERAMIC CHIP	0.1uF	25V	
C926	1-126-916-11	ELECT	1000uF	20%	6.3V
C931	1-126-961-11	ELECT	2.2uF	20%	50V
C951	1-136-165-00	MYLAR	0.1uF	5%	50V
C952	1-126-768-11	ELECT	2200uF	20%	16V

Ref. No.	Part No.	Description			Remark
C953	1-126-933-11	ELECT	100uF	20%	16V
C954	1-126-924-11	ELECT	330uF	20%	10V
C956	1-136-165-00	MYLAR	0.1uF	5%	50V
C3001	1-164-159-11	CERAMIC	0.1uF		50V
< CONNECTOR >					
CN101	1-785-329-11	PIN, CONNECTOR (LIGHT ANGLE)3P			
CN111	1-750-747-11	CONNECTOR, FFC/FPC 15P			
CN112	1-785-334-11	PIN, CONNECTOR (LIGHT ANGLE)8P			
CN113	1-785-335-11	PIN, CONNECTOR (LIGHT ANGLE)9P			
CN121	1-568-834-11	SOCKET, CONNECTOR 15P			
CN131	1-568-834-11	SOCKET, CONNECTOR 15P			
* CN132	1-568-836-11	SOCKET, CONNECTOR 17P			
* CN141	1-568-839-21	SOCKET, CONNECTOR 23P			
CN151	1-770-726-11	CONNECTOR, BOARD TO BOARD 6P			
CN152	1-778-982-11	CONNECTOR, BOARD TO BOARD 13P			
* CN171	1-564-518-11	PLUG, CONNECTOR 3P			
* CN301	1-568-449-11	HOUSING, CONNECTOR(PC BOARD)3P			
< DIODE >					
D141	8-719-988-61	DIODE 1SS355TE-17			
D216	8-719-988-61	DIODE 1SS355TE-17			
D371	8-719-988-61	DIODE 1SS355TE-17			
D372	8-719-988-61	DIODE 1SS355TE-17			
D373	8-719-988-61	DIODE 1SS355TE-17			
D374	8-719-988-61	DIODE 1SS355TE-17			
D431	8-719-200-82	DIODE 11ES2-TB5			
D432	8-719-200-82	DIODE 11ES2-TB5			
D433	8-719-200-82	DIODE 11ES2-TB5			
D434	8-719-200-82	DIODE 11ES2-TB5			
D501	8-719-988-61	DIODE 1SS355TE-17			
D502	8-719-988-61	DIODE 1SS355TE-17			
D503	8-719-988-61	DIODE 1SS355TE-17			
D504	8-719-988-61	DIODE 1SS355TE-17			
D505	8-719-988-61	DIODE 1SS355TE-17			
D506	8-719-988-61	DIODE 1SS355TE-17			
D507	8-719-988-61	DIODE 1SS355TE-17			
D508	8-719-988-61	DIODE 1SS355TE-17			
D509	8-719-988-61	DIODE 1SS355TE-17			
D510	8-719-988-61	DIODE 1SS355TE-17			
D512	8-719-988-61	DIODE 1SS355TE-17			
D901	8-719-073-81	DIODE EC21QS06-TE12L			
D902	8-719-073-81	DIODE EC21QS06-TE12L			
D903	8-719-073-81	DIODE EC21QS06-TE12L			
D904	8-719-073-81	DIODE EC21QS06-TE12L			
D905	8-719-988-61	DIODE 1SS355TE-17			
D906	8-719-158-15	DIODE UDZ-TE-17-5.6B			
D907	8-719-988-61	DIODE 1SS355TE-17			
D908	8-719-200-82	DIODE 11ES2-TB5			
D909	8-719-200-82	DIODE 11ES2-TB5			
D910	8-719-200-82	DIODE 11ES2-TB5			
D911	8-719-200-82	DIODE 11ES2-TB5			
D912	8-719-056-88	DIODE UDZ-TE-17-11B			
D914	8-719-988-61	DIODE 1SS355TE-17			
D915	8-719-210-33	DIODE EC10DS2TE12L			
D918	8-719-210-33	DIODE EC10DS2TE12L			
D931	8-719-988-61	DIODE 1SS355TE-17			

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
D932	8-719-988-61	DIODE 1SS355TE-17		Q502	8-729-029-40	TRANSISTOR DTA124ESA-TP	
D3001	8-719-200-82	DIODE 11ES2-TB5		Q503	8-729-029-40	TRANSISTOR DTA124ESA-TP	
		< IC >		Q901	8-729-209-15	TRANSISTOR 2SD2012	
IC101	8-759-571-54	IC M62493FP		Q902	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
IC201	8-759-571-51	IC M62464FP		Q903	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
IC301	8-759-495-26	IC HA12215F		Q904	8-729-029-86	TRANSISTOR DTC124ESA-TP	
IC421	8-749-923-04	IC TOTX178A		Q905	8-729-029-86	TRANSISTOR DTC124ESA-TP	
IC501	8-759-639-96	IC M30622MA-A16FP		Q906	8-729-040-20	TRANSISTOR RT1P137L-TP	
				Q906	8-729-049-79	TRANSISTOR RTIP137S-TP	
IC502	8-759-635-63	IC M51943BSL-TP		Q907	8-729-029-86	TRANSISTOR DTC124ESA-TP	
IC901	8-759-231-53	IC M5F7805L		Q910	8-729-026-68	TRANSISTOR 2SD2525(TP)	
IC902	8-759-604-86	IC M5F7807L		Q913	8-729-040-20	TRANSISTOR RT1P137L-TP	
IC903	8-759-604-32	IC M5F7810L		Q914	8-729-029-86	TRANSISTOR DTC124ESA-TP	
IC904	8-759-701-79	IC NJM7812FA		Q915	8-729-141-83	TRANSISTOR 2SB1375	
IC905	8-759-231-53	IC M5F7805L		Q916	8-729-900-36	TRANSISTOR BA1F4M-TP	
		< JACK >		Q951	8-729-141-83	TRANSISTOR 2SB1375	
J101	1-774-411-11	JACK, PIN 6P (VIDEO (AUDIO)/MD IN, OUT)		Q952	8-729-119-76	TRANSISTOR 2SA1175TP-HFE	
J102	1-779-599-11	JACK, PIN 6P (DVD INPUT)		Q953	8-729-119-76	TRANSISTOR 2SA1175TP-HFE	
J191	1-774-785-11	JACK, PIN 1P (WOOFER OUT)				< RESISTOR >	
		< COIL >		R101	1-216-049-91	RES,CHIP 1K 5% 1/10W	
L421	1-410-482-31	INDUCTOR 100uH		R102	1-216-049-91	RES,CHIP 1K 5% 1/10W	
L501	1-410-470-11	INDUCTOR 10uH		R103	1-216-049-91	RES,CHIP 1K 5% 1/10W	
		< TRANSISTOR >		R111	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
Q111	8-729-029-86	TRANSISTOR DTC124ESA-TP		R112	1-216-073-00	METAL CHIP 10K 5% 1/10W	
Q112	8-729-620-05	TRANSISTOR 2SC2603TP-EF		R113	1-216-295-91	SHORT 0	
Q113	8-729-620-05	TRANSISTOR 2SC2603TP-EF		R114	1-216-113-00	METAL CHIP 470K 5% 1/10W	
Q114	8-729-141-30	TRANSISTOR 2SC3623ATP-LK		R115	1-216-112-00	RES,CHIP 430K 5% 1/10W	
Q161	8-729-029-86	TRANSISTOR DTC124ESA-TP		R116	1-216-106-00	METAL CHIP 240K 5% 1/10W	
Q162	8-729-620-05	TRANSISTOR 2SC2603TP-EF		R117	1-216-045-00	METAL CHIP 680 5% 1/10W	
Q163	8-729-620-05	TRANSISTOR 2SC2603TP-EF		R118	1-216-081-00	METAL CHIP 22K 5% 1/10W	
Q164	8-729-141-30	TRANSISTOR 2SC3623ATP-LK		R119	1-216-105-91	RES,CHIP 220K 5% 1/10W	
Q191	8-729-141-30	TRANSISTOR 2SC3623ATP-LK		R120	1-216-073-00	METAL CHIP 10K 5% 1/10W	
Q281	8-729-141-30	TRANSISTOR 2SC3623ATP-LK		R121	1-216-089-91	RES,CHIP 47K 5% 1/10W	
Q282	8-729-141-30	TRANSISTOR 2SC3623ATP-LK		R122	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
Q291	8-729-141-30	TRANSISTOR 2SC3623ATP-LK		R123	1-216-097-91	RES,CHIP 100K 5% 1/10W	
Q371	8-729-118-00	TRANSISTOR 2SB1116-TP-LK		R124	1-216-073-00	METAL CHIP 10K 5% 1/10W	
Q372	8-729-029-66	TRANSISTOR DTC114ESA-TP		R125	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
Q373	8-729-118-00	TRANSISTOR 2SB1116-TP-LK		R126	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
Q374	8-729-029-66	TRANSISTOR DTC114ESA-TP		R128	1-216-121-91	RES,CHIP 1M 5% 1/10W	
Q375	8-729-029-66	TRANSISTOR DTC114ESA-TP		R131	1-216-025-91	RES,CHIP 100 5% 1/10W	
Q376	8-729-116-59	TRANSISTOR 2SB1068TP		R132	1-216-025-91	RES,CHIP 100 5% 1/10W	
Q377	8-729-045-21	TRANSISTOR 2SD1513TP-LK		R133	1-216-025-91	RES,CHIP 100 5% 1/10W	
Q378	8-729-029-21	TRANSISTOR DTA114ESA-TP		R141	1-216-081-00	METAL CHIP 22K 5% 1/10W	
Q379	8-729-029-66	TRANSISTOR DTC114ESA-TP		R142	1-216-081-00	METAL CHIP 22K 5% 1/10W	
Q380	8-729-116-59	TRANSISTOR 2SB1068TP		R143	1-216-049-91	RES,CHIP 1K 5% 1/10W	
Q381	8-729-045-21	TRANSISTOR 2SD1513TP-LK		R144	1-216-097-91	RES,CHIP 100K 5% 1/10W	
Q382	8-729-029-21	TRANSISTOR DTA114ESA-TP		R145	1-216-121-91	RES,CHIP 1M 5% 1/10W	
Q383	8-729-029-66	TRANSISTOR DTC114ESA-TP		R151	1-216-049-91	RES,CHIP 1K 5% 1/10W	
Q411	8-729-141-30	TRANSISTOR 2SC3623ATP-LK		R152	1-216-049-91	RES,CHIP 1K 5% 1/10W	
Q421	8-729-029-40	TRANSISTOR DTA124ESA-TP		R153	1-216-049-91	RES,CHIP 1K 5% 1/10W	
Q431	8-729-111-29	TRANSISTOR 2SD1616-TP-LK		R161	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
Q432	8-729-119-76	TRANSISTOR 2SA1175TP-HFE		R162	1-216-073-00	METAL CHIP 10K 5% 1/10W	
Q461	8-729-141-30	TRANSISTOR 2SC3623ATP-LK		R163	1-216-295-91	SHORT 0	
Q501	8-729-620-05	TRANSISTOR 2SC2603TP-EF		R164	1-216-113-00	METAL CHIP 470K 5% 1/10W	
				R165	1-216-112-00	RES,CHIP 430K 5% 1/10W	
				R166	1-216-106-00	METAL CHIP 240K 5% 1/10W	
				R167	1-216-045-00	METAL CHIP 680 5% 1/10W	

MAIN

Ref. No.	Part No.	Description			Remark
R168	1-216-081-00	METAL CHIP	22K	5%	1/10W
R169	1-216-105-91	RES,CHIP	220K	5%	1/10W
R170	1-216-073-00	METAL CHIP	10K	5%	1/10W
R171	1-216-089-91	RES,CHIP	47K	5%	1/10W
R172	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R173	1-216-097-91	RES,CHIP	100K	5%	1/10W
R174	1-216-073-00	METAL CHIP	10K	5%	1/10W
R178	1-216-121-91	RES,CHIP	1M	5%	1/10W
R191	1-216-049-91	RES,CHIP	1K	5%	1/10W
R192	1-216-097-91	RES,CHIP	100K	5%	1/10W
R193	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R194	1-216-073-00	METAL CHIP	10K	5%	1/10W
R201	1-216-097-91	RES,CHIP	100K	5%	1/10W
R202	1-216-097-91	RES,CHIP	100K	5%	1/10W
R222	1-216-049-91	RES,CHIP	1K	5%	1/10W
R223	1-216-049-91	RES,CHIP	1K	5%	1/10W
R224	1-216-049-91	RES,CHIP	1K	5%	1/10W
R245	1-216-109-00	METAL CHIP	330K	5%	1/10W
R260	1-216-089-91	RES,CHIP	47K	5%	1/10W
R261	1-216-094-00	RES,CHIP	75K	5%	1/10W
R262	1-216-089-91	RES,CHIP	47K	5%	1/10W
R263	1-216-094-00	RES,CHIP	75K	5%	1/10W
R264	1-216-101-00	METAL CHIP	150K	5%	1/10W
R265	1-216-101-00	METAL CHIP	150K	5%	1/10W
R267	1-216-097-91	RES,CHIP	100K	5%	1/10W
R271	1-216-097-91	RES,CHIP	100K	5%	1/10W
R274	1-216-073-00	METAL CHIP	10K	5%	1/10W
R275	1-216-073-00	METAL CHIP	10K	5%	1/10W
R276	1-216-073-00	METAL CHIP	10K	5%	1/10W
R277	1-216-073-00	METAL CHIP	10K	5%	1/10W
R278	1-216-073-00	METAL CHIP	10K	5%	1/10W
R279	1-216-073-00	METAL CHIP	10K	5%	1/10W
R281	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R282	1-216-068-00	METAL CHIP	6.2K	5%	1/10W
R283	1-216-068-00	METAL CHIP	6.2K	5%	1/10W
R284	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R285	1-216-097-91	RES,CHIP	100K	5%	1/10W
R286	1-216-073-00	METAL CHIP	10K	5%	1/10W
R287	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R288	1-216-097-91	RES,CHIP	100K	5%	1/10W
R289	1-216-073-00	METAL CHIP	10K	5%	1/10W
R291	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R292	1-216-068-00	METAL CHIP	6.2K	5%	1/10W
R293	1-216-068-00	METAL CHIP	6.2K	5%	1/10W
R294	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R295	1-216-097-91	RES,CHIP	100K	5%	1/10W
R296	1-216-073-00	METAL CHIP	10K	5%	1/10W
R301	1-216-085-00	METAL CHIP	33K	5%	1/10W
R302	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R303	1-216-025-91	RES,CHIP	100	5%	1/10W
R304	1-216-025-91	RES,CHIP	100	5%	1/10W
R305	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R306	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R307	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R308	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R309	1-216-081-00	METAL CHIP	22K	5%	1/10W
R311	1-216-121-91	RES,CHIP	1M	5%	1/10W

Ref. No.	Part No.	Description			Remark
R312	1-216-102-00	RES,CHIP	160K	5%	1/10W
R313	1-216-097-91	RES,CHIP	100K	5%	1/10W
R315	1-216-073-00	METAL CHIP	10K	5%	1/10W
R316	1-216-079-00	METAL CHIP	18K	5%	1/10W
R317	1-216-073-00	METAL CHIP	10K	5%	1/10W
R318	1-216-073-00	METAL CHIP	10K	5%	1/10W
R319	1-216-111-00	METAL CHIP	390K	5%	1/10W
R321	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R322	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R341	1-216-094-00	RES,CHIP	75K	5%	1/10W
R342	1-216-094-00	RES,CHIP	75K	5%	1/10W
R343	1-216-089-91	RES,CHIP	47K	5%	1/10W
R344	1-216-089-91	RES,CHIP	47K	5%	1/10W
R345	1-216-089-91	RES,CHIP	47K	5%	1/10W
R346	1-216-049-91	RES,CHIP	1K	5%	1/10W
R347	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R348	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R351	1-216-085-00	METAL CHIP	33K	5%	1/10W
R352	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R353	1-216-025-91	RES,CHIP	100	5%	1/10W
R354	1-216-025-91	RES,CHIP	100	5%	1/10W
R355	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R356	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R357	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R358	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R359	1-216-085-00	METAL CHIP	33K	5%	1/10W
R371	1-216-045-00	METAL CHIP	680	5%	1/10W
R372	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R373	1-216-045-00	METAL CHIP	680	5%	1/10W
R374	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R375	1-216-089-91	RES,CHIP	47K	5%	1/10W
R376	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R377	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R378	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R379	1-216-045-00	METAL CHIP	680	5%	1/10W
R380	1-216-045-00	METAL CHIP	680	5%	1/10W
R381	1-216-089-91	RES,CHIP	47K	5%	1/10W
R382	1-216-089-91	RES,CHIP	47K	5%	1/10W
R383	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R384	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R385	1-216-045-00	METAL CHIP	680	5%	1/10W
R386	1-216-045-00	METAL CHIP	680	5%	1/10W
R387	1-216-089-91	RES,CHIP	47K	5%	1/10W
R401	1-216-025-91	RES,CHIP	100	5%	1/10W
R402	1-216-085-00	METAL CHIP	33K	5%	1/10W
R411	1-260-089-11	CARBON	150	5%	1/2W
R412	1-260-089-11	CARBON	150	5%	1/2W
R413	1-260-313-51	CARBON	56	5%	1/2W
R414	1-216-049-91	RES,CHIP	1K	5%	1/10W
R415	1-216-073-00	METAL CHIP	10K	5%	1/10W
R416	1-216-089-91	RES,CHIP	47K	5%	1/10W
R417	1-216-049-91	RES,CHIP	1K	5%	1/10W
R418	1-260-089-11	CARBON	150	5%	1/2W
R419	1-260-089-11	CARBON	150	5%	1/2W
R421	1-216-085-00	METAL CHIP	33K	5%	1/10W
R431	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R432	1-216-089-91	RES,CHIP	47K	5%	1/10W
R433	1-216-075-91	RES,CHIP	12K	5%	1/10W

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R451	1-216-025-91	RES,CHIP	100	5%	1/10W	R586	1-216-025-91	RES,CHIP	100	5%	1/10W
R452	1-216-085-00	METAL CHIP	33K	5%	1/10W	R587	1-216-025-91	RES,CHIP	100	5%	1/10W
						R588	1-216-025-91	RES,CHIP	100	5%	1/10W
R461	1-260-089-11	CARBON	150	5%	1/2W	R589	1-216-025-91	RES,CHIP	100	5%	1/10W
R462	1-260-089-11	CARBON	150	5%	1/2W	R590	1-216-025-91	RES,CHIP	100	5%	1/10W
R463	1-260-313-51	CARBON	56	5%	1/2W						
R464	1-216-049-91	RES,CHIP	1K	5%	1/10W	R591	1-216-025-91	RES,CHIP	100	5%	1/10W
R468	1-260-089-11	CARBON	150	5%	1/2W	R594	1-216-295-91	SHORT	0		
						R595	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R469	1-260-089-11	CARBON	150	5%	1/2W	R596	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R502	1-216-041-00	METAL CHIP	470	5%	1/10W	R597	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R503	1-216-065-91	RES,CHIP	4.7K	5%	1/10W						
R504	1-216-025-91	RES,CHIP	100	5%	1/10W	R598	1-216-045-00	METAL CHIP	680	5%	1/10W
R505	1-216-089-91	RES,CHIP	47K	5%	1/10W	R901	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
						R902	1-216-045-00	METAL CHIP	680	5%	1/10W
R506	1-216-089-91	RES,CHIP	47K	5%	1/10W	R903	1-216-138-00	METAL CHIP	3.3	5%	1/8W
R507	1-216-073-00	METAL CHIP	10K	5%	1/10W	R904	1-216-138-00	METAL CHIP	3.3	5%	1/8W
R508	1-216-033-00	METAL CHIP	220	5%	1/10W						
R509	1-216-097-91	RES,CHIP	100K	5%	1/10W	R905	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R510	1-216-295-91	SHORT	0			R906	1-216-043-91	RES,CHIP	560	5%	1/10W
						R907	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R511	1-216-109-00	METAL CHIP	330K	5%	1/10W	R908	1-216-073-00	METAL CHIP	10K	5%	1/10W
R513	1-216-295-91	SHORT	0			R909	1-216-075-00	METAL CHIP	12K	5%	1/10W
R517	1-216-073-00	METAL CHIP	10K	5%	1/10W						
R518	1-216-025-91	RES,CHIP	100	5%	1/10W	R910	1-216-073-00	METAL CHIP	10K	5%	1/10W
R522	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R913	1-216-033-00	METAL CHIP	220	5%	1/10W
						R914	1-216-295-91	SHORT	0		
R526	1-216-025-91	RES,CHIP	100	5%	1/10W	R915	1-216-081-00	METAL CHIP	22K	5%	1/10W
R527	1-216-025-91	RES,CHIP	100	5%	1/10W	R916	1-260-087-81	CARBON	100	5%	1/2W
R528	1-216-073-00	METAL CHIP	10K	5%	1/10W						
R529	1-216-025-91	RES,CHIP	100	5%	1/10W	R917	1-216-295-91	SHORT	0		
R530	1-216-025-91	RES,CHIP	100	5%	1/10W	R931	1-216-081-00	METAL CHIP	22K	5%	1/10W
						R932	1-216-081-00	METAL CHIP	22K	5%	1/10W
R536	1-216-025-91	RES,CHIP	100	5%	1/10W	R933	1-216-081-00	METAL CHIP	22K	5%	1/10W
R538	1-216-073-00	METAL CHIP	10K	5%	1/10W	R951	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R539	1-216-025-91	RES,CHIP	100	5%	1/10W						
R542	1-216-025-91	RES,CHIP	100	5%	1/10W	R952	1-216-045-00	METAL CHIP	680	5%	1/10W
R543	1-216-025-91	RES,CHIP	100	5%	1/10W	R953	1-216-138-00	METAL CHIP	3.3	5%	1/8W
						R954	1-216-138-00	METAL CHIP	3.3	5%	1/8W
R549	1-216-049-91	RES,CHIP	1K	5%	1/10W	< VARIABLE RESISTOR >					
R550	1-216-025-91	RES,CHIP	100	5%	1/10W	RV301	1-238-600-11	RES, ADJ, CARBON 10K			
R551	1-216-025-91	RES,CHIP	100	5%	1/10W	RV351	1-238-600-11	RES, ADJ, CARBON 10K			
R552	1-216-025-91	RES,CHIP	100	5%	1/10W						
R553	1-216-025-91	RES,CHIP	100	5%	1/10W	< VIBRATOR >					
						X510	1-567-098-41	VIBRATOR, CRYSTAL (32.768MHz)			
R554	1-216-025-91	RES,CHIP	100	5%	1/10W	X513	1-781-107-21	VIBRATOR, SERAMIC (16MHz)			
R555	1-216-025-91	RES,CHIP	100	5%	1/10W	*****					
R559	1-216-025-91	RES,CHIP	100	5%	1/10W						
R560	1-216-025-91	RES,CHIP	100	5%	1/10W	1-675-906-11	5V POWER BOARD				
R561	1-216-025-91	RES,CHIP	100	5%	1/10W	*****					
						< CAPACITOR >					
R563	1-216-025-91	RES,CHIP	100	5%	1/10W	C101	1-104-664-11	ELECT	47uF	20%	25V
R565	1-216-025-91	RES,CHIP	100	5%	1/10W	C102	1-126-964-11	ELECT	10uF	20%	50V
R566	1-216-025-91	RES,CHIP	100	5%	1/10W	C103	1-126-916-11	ELECT	1000uF	20%	6.3V
R567	1-216-025-91	RES,CHIP	100	5%	1/10W	< CONNECTOR >					
R568	1-216-025-91	RES,CHIP	100	5%	1/10W	* CN101	1-564-507-11	PLUG, CONNECTOR 4P			
						< DIODE >					
R569	1-216-025-91	RES,CHIP	100	5%	1/10W	D101	8-719-110-12	DIODE MTZJ-T-72-9.1A			
R570	1-216-025-91	RES,CHIP	100	5%	1/10W						
R571	1-216-025-91	RES,CHIP	100	5%	1/10W						
R572	1-216-073-00	METAL CHIP	10K	5%	1/10W						
R573	1-216-061-00	METAL CHIP	3.3K	5%	1/10W						
R574	1-216-073-00	METAL CHIP	10K	5%	1/10W						
R575	1-216-073-00	METAL CHIP	10K	5%	1/10W						
R576	1-216-073-00	METAL CHIP	10K	5%	1/10W						
R577	1-216-073-00	METAL CHIP	10K	5%	1/10W						
R578	1-216-073-00	METAL CHIP	10K	5%	1/10W						

5V POWER

MOTOR (SLIDE)

MOTOR (TURN)

PANEL

Ref. No.	Part No.	Description	Remark			
< IC >						
IC101	8-759-496-15	IC BA05ST-V5				
< TRANSISTOR >						
Q101	8-729-209-15	TRANSISTOR	2SD2012			
< RESISTOR >						
R101	1-247-807-31	CARBON	100	5%	1/4W	
R102	1-249-409-11	CARBON	220	5%	1/4W	F

*	1-658-578-11	MOTOR (SLIDE) BOARD	*****			
< CAPACITOR >						
C801	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C804	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C805	1-126-964-11	ELECT	10uF	20%	50V	
< CONNECTOR >						
* CN801	1-568-947-11	PIN, CONNECTOR 9P				
< DIODE >						
D801	8-719-109-93	DIODE MTZJ-T-77-6.2C				
D804	8-719-991-33	DIODE 1SS133T-77				
D805	8-719-991-33	DIODE 1SS133T-77				
< IC >						
IC801	8-759-274-09	IC BA6286N				
< RESISTOR >						
R801	1-249-401-11	CARBON	47	5%	1/4W	F
< SWITCH >						
S801	1-762-527-11	SWITCH, ROTARY (OPEN/CLOSE)				

*	1-658-577-11	MOTOR (TURN) BOARD	*****			
< CAPACITOR >						
C701	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C702	1-126-964-11	ELECT	10uF	20%	50V	
C705	1-162-306-11	CERAMIC	0.01uF	30%	16V	
< CONNECTOR >						
CN703	1-750-413-11	CONNECTOR, FFC/FPC 8P				
CN704	1-506-469-11	PIN, CONNECTOR 4P				
< DIODE >						
D701	8-719-109-69	DIODE MTZJ-T-77-3.6B				
< IC >						
IC701	8-759-633-65	IC M54641L				

Ref. No.	Part No.	Description	Remark			
< RESISTOR >						
R706	1-249-411-11	CARBON	330	5%	1/4W	
R707	1-249-401-11	CARBON	47	5%	1/4W	F

	A-4426-782-A	PANEL BOARD, COMPLETE	*****			
*	4-214-439-11	HOLDER, FL TUBE				
	4-949-935-41	CUSHION (FL)				
< CAPACITOR >						
C601	1-124-589-11	ELECT	47uF	20%	16V	
C602	1-126-163-11	ELECT	4.7uF	20%	50V	
C603	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C604	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C606	1-126-160-11	ELECT	1uF	20%	50V	
C607	1-126-160-11	ELECT	1uF	20%	50V	
C610	1-124-589-11	ELECT	47uF	20%	16V	
C611	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C612	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C614	1-162-306-11	CERAMIC	0.01uF	30%	6V	
C615	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C616	1-126-157-11	ELECT	10uF	20%	16V	
C617	1-162-303-11	CERAMIC	0.0033uF	30%	16V	
C618	1-126-157-11	ELECT	10uF	20%	16V	
C619	1-126-157-11	ELECT	10uF	20%	16V	
C620	1-126-163-11	ELECT	4.7uF	20%	50V	
C625	1-126-157-11	ELECT	10uF	20%	16V	
C627	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C628	1-126-157-11	ELECT	10uF	20%	16V	
C630	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C631	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C632	1-162-306-11	CERAMIC	0.01uF	30%	6V	
C651	1-162-282-31	CERAMIC	100PF	10%	50V	
C652	1-162-282-31	CERAMIC	100PF	10%	50V	
C653	1-162-282-31	CERAMIC	100PF	10%	50V	
C654	1-162-282-31	CERAMIC	100PF	10%	50V	
C655	1-162-282-31	CERAMIC	100PF	10%	50V	
C656	1-162-282-31	CERAMIC	100PF	10%	50V	
C657	1-162-282-31	CERAMIC	100PF	10%	50V	
C658	1-162-282-31	CERAMIC	100PF	10%	50V	
C659	1-162-282-31	CERAMIC	100PF	10%	50V	
C660	1-162-282-31	CERAMIC	100PF	10%	50V	
C661	1-162-282-31	CERAMIC	100PF	10%	50V	
C662	1-162-282-31	CERAMIC	100PF	10%	50V	
C663	1-162-282-31	CERAMIC	100PF	10%	50V	
C664	1-162-282-31	CERAMIC	100PF	10%	50V	
C665	1-162-282-31	CERAMIC	100PF	10%	50V	
C666	1-162-282-31	CERAMIC	100PF	10%	50V	
C667	1-162-282-31	CERAMIC	100PF	10%	50V	
C668	1-162-282-31	CERAMIC	100PF	10%	50V	
C701	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C702	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C703	1-164-159-11	CERAMIC	0.1uF	50V		
C711	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C712	1-162-305-11	CERAMIC	0.0068uF	30%	16V	

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
C713	1-126-160-11	ELECT	1uF	20%	50V			< GROUND PLATE >					
C714	1-136-495-11	MYLAR	0.068uF	5%	50V								
C715	1-124-465-00	ELECT	0.47uF	20%	50V		* EP601	1-537-738-21	TERMINAL, EARTH				
C716	1-124-465-00	ELECT	0.47uF	20%	50V			< FERRITE BEAD >					
C717	1-136-167-00	MYLAR	0.15uF	5%	50V								
C718	1-162-294-31	CERAMIC	0.001uF	10%	50V		FB601	1-412-473-21	INDUCTOR	0UH			
C719	1-126-160-11	ELECT	1uF	20%	50V		FB602	1-412-473-21	INDUCTOR	0UH			
C720	1-161-494-00	CERAMIC	0.022uF	25V				< FLUORESCENT TUBE >					
C721	1-162-305-11	CERAMIC	0.0068uF	30%	16V								
C722	1-136-495-11	MYLAR	0.068uF	5%	50V		FL601	1-517-831-31	INDICATOR TUBE, FLUORESCENT				
C723	1-124-589-11	ELECT	47uF	20%	16V			< IC >					
C724	1-136-165-00	MYLAR	0.1uF	5%	50V								
C725	1-124-589-11	ELECT	47uF	20%	16V		IC601	8-759-589-14	IC TMP88CS76F-6010				
C731	1-162-306-11	CERAMIC	0.01uF	30%	16V		IC602	8-749-011-05	IC GP1U28X (REMOCON CONTROL RECEIVER)				
C732	1-124-257-00	ELECT	2.2uF	20%	50V		IC603	8-759-570-21	IC BA3830F				
C733	1-162-294-31	CERAMIC	0.001uF	10%	50V		IC604	8-759-587-81	IC NJU3716M-T2				
C734	1-162-215-31	CERAMIC	47PF	5%	50V		IC711	8-759-496-40	IC M65850FP				
C735	1-124-261-00	ELECT	10uF	20%	50V								
C736	1-162-290-31	CERAMIC	470PF	10%	50V		IC712	8-759-636-55	IC M5218AFP				
C737	1-124-463-00	ELECT	0.1uF	20%	50V			< JACK >					
C738	1-124-257-00	ELECT	2.2uF	20%	50V		J701	1-785-569-11	JACK (SMALL TYPE) (PHONES)				
C739	1-162-215-31	CERAMIC	47PF	5%	50V		J711	1-785-569-11	JACK (SMALL TYPE) (MIC2)				
C741	1-124-261-00	ELECT	10uF	20%	50V		J712	1-785-569-11	JACK (SMALL TYPE) (MIC1)				
C742	1-162-282-31	CERAMIC	100PF	10%	50V			< COIL >					
C743	1-124-257-00	ELECT	2.2uF	20%	50V								
C744	1-162-306-11	CERAMIC	0.01uF	30%	16V		L601	1-410-509-11	INDUCTOR	10uH			
C745	1-124-257-00	ELECT	2.2uF	20%	50V		L602	1-410-517-11	INDUCTOR	47uH			
C747	1-164-159-11	CERAMIC	0.1uF	50V				< TRANSISTOR >					
< CONNECTOR >													
CN601	1-784-745-11	CONNECTOR, FFC 23P					Q601	8-729-118-00	TRANSISTOR	2SB1116-L			
< DIODE >							Q602	8-729-118-00	TRANSISTOR	2SB1116-L			
D610	8-719-050-84	DIODE	RB441Q-40T-72				Q603	8-729-119-78	TRANSISTOR	2SC403SP-51			
D611	8-719-073-47	DIODE	SML72923C-TP15 (REC/PAUSE START)				Q604	8-729-422-57	TRANSISTOR	UN4111			
D612	8-719-056-13	DIODE	SML79423C-TP15 (▶ CD)				Q605	8-729-422-57	TRANSISTOR	UN4111			
D613	8-719-058-03	DIODE	SEL5423E-TP15 (TAPE B ▶▶)				Q606	8-729-900-80	TRANSISTOR	DTC114ES			
D614	8-719-058-03	DIODE	SEL5423E-TP15 (TAPE B ◀◀)				Q607	8-729-900-74	TRANSISTOR	DTC143TS			
D615	8-719-058-03	DIODE	SEL5423E-TP15 (TAPE A ▶▶)				Q608	8-729-900-74	TRANSISTOR	DTC143TS			
D616	8-719-058-03	DIODE	SEL5423E-TP15 (TAPE A ◀◀)				Q609	8-729-900-74	TRANSISTOR	DTC143TS			
D617	8-719-057-97	DIODE	SEL5923A-TP15 (PBC OFF)				Q610	8-729-900-74	TRANSISTOR	DTC143TS			
D618	8-719-057-97	DIODE	SEL5923A-TP15 (PBC)				Q611	8-729-900-74	TRANSISTOR	DTC143TS			
D619	8-719-057-97	DIODE	SEL5923A-TP15 (SYNC BASE L)				Q612	8-729-900-74	TRANSISTOR	DTC143TS			
D620	8-719-057-97	DIODE	SEL5923A-TP15 (SYNC BASE H)				Q613	8-729-900-74	TRANSISTOR	DTC143TS			
D621	8-719-057-97	DIODE	SEL5923A-TP15 (SYNC EQ)					< RESISTOR >					
D622	8-719-063-93	DIODE	SLR325VC-N-T32 (EFFECT)				R600	1-247-903-00	CARBON	1M	5%	1/4W	
D623	8-719-057-97	DIODE	SEL5923A-TP15 (S VIDEO /VCD)				R601	1-247-807-31	CARBON	100	5%	1/4W	
D624	8-719-063-93	DIODE	SLR325VC-N-T32 (NON STOP)				R602	1-249-429-11	CARBON	10K	5%	1/4W	
D625	8-719-057-97	DIODE	SEL5923A-TP15 (CIMEMA SPACE/DSP)				R603	1-247-807-31	CARBON	100	5%	1/4W	
D626	8-719-057-97	DIODE	SEL5923A-TP15 (PRO LOGIC)				R604	1-247-807-31	CARBON	100	5%	1/4W	
D627	8-719-057-97	DIODE	SEL5923A-TP15 (GROOVE)				R605	1-249-429-11	CARBON	10K	5%	1/4W	
D628	8-719-063-93	DIODE	SLR325VC-N-T32 (ENTERY NEXT)				R606	1-249-401-11	CARBON	47	5%	1/4W	F
D629	8-719-063-93	DIODE	SLR325VC-N-T32				R607	1-247-893-11	CARBON	390K	5%	1/4W	
(JOG ◀◀◀▶▶▶)							R608	1-247-893-11	CARBON	390K	5%	1/4W	
D630	8-719-057-97	DIODE	SEL5923A-TP15 (–◀◀)				R609	1-249-441-11	CARBON	100K	5%	1/4W	
D631	8-719-057-97	DIODE	SEL5923A-TP15 (+▶▶)				R610	1-249-429-11	CARBON	10K	5%	1/4W	
D632	8-719-063-93	DIODE	SLR325VC-N-T32 (TIMER SELECT)				R611	1-249-441-11	CARBON	100K	5%	1/4W	
D701	8-719-109-85	DIODE	MTZJ-T-72-5.1B				R612	1-249-401-11	CARBON	47	5%	1/4W	F

PANEL

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
R613	1-249-435-11	CARBON	33K	5%	1/4W		R670	1-249-414-11	CARBON	560	5%	1/4W	F
R614	1-247-895-00	CARBON	470K	5%	1/4W		R671	1-249-437-11	CARBON	47K	5%	1/4W	
							R672	1-249-417-11	CARBON	1K	5%	1/4W	F
R615	1-249-429-11	CARBON	10K	5%	1/4W		R673	1-249-437-11	CARBON	47K	5%	1/4W	
R616	1-249-441-11	CARBON	100K	5%	1/4W		R674	1-249-417-11	CARBON	1K	5%	1/4W	F
R617	1-249-441-11	CARBON	100K	5%	1/4W								
R618	1-249-441-11	CARBON	100K	5%	1/4W		R675	1-249-437-11	CARBON	47K	5%	1/4W	
R619	1-249-441-11	CARBON	100K	5%	1/4W		R676	1-249-429-11	CARBON	10K	5%	1/4W	
							R678	1-249-407-11	CARBON	150	5%	1/4W	F
R620	1-249-441-11	CARBON	100K	5%	1/4W		R679	1-249-407-11	CARBON	150	5%	1/4W	F
R621	1-249-429-11	CARBON	10K	5%	1/4W		R680	1-247-804-11	CARBON	75	5%	1/4W	
R622	1-249-410-11	CARBON	270	5%	1/4W	F							
R623	1-249-411-11	CARBON	330	5%	1/4W		R681	1-249-407-11	CARBON	150	5%	1/4W	F
R624	1-249-413-11	CARBON	470	5%	1/4W	F	R682	1-247-804-11	CARBON	75	5%	1/4W	
							R683	1-247-804-11	CARBON	75	5%	1/4W	
R625	1-249-414-11	CARBON	560	5%	1/4W	F	R684	1-247-804-11	CARBON	75	5%	1/4W	
R626	1-249-415-11	CARBON	680	5%	1/4W	F	R685	1-247-804-11	CARBON	75	5%	1/4W	
R627	1-249-417-11	CARBON	1K	5%	1/4W	F							
R628	1-249-418-11	CARBON	1.2K	5%	1/4W	F	R686	1-249-402-11	CARBON	56	5%	1/4W	F
R629	1-249-420-11	CARBON	1.8K	5%	1/4W	F	R687	1-249-402-11	CARBON	56	5%	1/4W	F
							R688	1-249-402-11	CARBON	56	5%	1/4W	F
R630	1-249-422-11	CARBON	2.7K	5%	1/4W	F	R689	1-249-402-11	CARBON	56	5%	1/4W	F
R631	1-247-843-11	CARBON	3.3K	5%	1/4W		R690	1-249-402-11	CARBON	56	5%	1/4W	F
R632	1-249-425-11	CARBON	4.7K	5%	1/4W	F							
R633	1-249-427-11	CARBON	6.8K	5%	1/4W	F	R691	1-249-407-11	CARBON	150	5%	1/4W	F
R634	1-249-429-11	CARBON	10K	5%	1/4W		R692	1-249-402-11	CARBON	56	5%	1/4W	F
							R693	1-249-407-11	CARBON	150	5%	1/4W	F
R635	1-249-431-11	CARBON	15K	5%	1/4W		R694	1-249-407-11	CARBON	150	5%	1/4W	F
R636	1-249-429-11	CARBON	10K	5%	1/4W		R695	1-249-402-11	CARBON	56	5%	1/4W	F
R637	1-249-410-11	CARBON	270	5%	1/4W	F							
R638	1-249-411-11	CARBON	330	5%	1/4W		R696	1-249-402-11	CARBON	56	5%	1/4W	F
R639	1-249-413-11	CARBON	470	5%	1/4W	F	R697	1-249-407-11	CARBON	150	5%	1/4W	F
							R698	1-249-407-11	CARBON	150	5%	1/4W	F
R640	1-249-414-11	CARBON	560	5%	1/4W	F	R699	1-247-807-31	CARBON	100	5%	1/4W	
R641	1-249-415-11	CARBON	680	5%	1/4W	F	R700	1-247-807-31	CARBON	100	5%	1/4W	
R642	1-249-417-11	CARBON	1K	5%	1/4W	F							
R643	1-249-418-11	CARBON	1.2K	5%	1/4W	F	R701	1-249-429-11	CARBON	10K	5%	1/4W	
R644	1-249-420-11	CARBON	1.8K	5%	1/4W	F	R702	1-249-429-11	CARBON	10K	5%	1/4W	
							R703	1-249-429-11	CARBON	10K	5%	1/4W	
R645	1-249-422-11	CARBON	2.7K	5%	1/4W	F	R704	1-249-429-11	CARBON	10K	5%	1/4W	
R646	1-247-843-11	CARBON	3.3K	5%	1/4W		R705	1-249-429-11	CARBON	10K	5%	1/4W	
R647	1-249-425-11	CARBON	4.7K	5%	1/4W	F							
R648	1-249-427-11	CARBON	6.8K	5%	1/4W	F	R710	1-249-401-11	CARBON	47	5%	1/4W	F
R649	1-249-429-11	CARBON	10K	5%	1/4W		R711	1-249-433-11	CARBON	22K	5%	1/4W	
							R712	1-249-433-11	CARBON	22K	5%	1/4W	
R650	1-249-429-11	CARBON	10K	5%	1/4W		R713	1-249-433-11	CARBON	22K	5%	1/4W	
R651	1-249-410-11	CARBON	270	5%	1/4W	F	R714	1-249-437-11	CARBON	47K	5%	1/4W	
R652	1-249-411-11	CARBON	330	5%	1/4W								
R653	1-249-413-11	CARBON	470	5%	1/4W	F	R715	1-249-433-11	CARBON	22K	5%	1/4W	
R654	1-249-414-11	CARBON	560	5%	1/4W	F	R716	1-249-431-11	CARBON	15K	5%	1/4W	
							R717	1-249-433-11	CARBON	22K	5%	1/4W	
R655	1-249-415-11	CARBON	680	5%	1/4W	F	R718	1-249-433-11	CARBON	22K	5%	1/4W	
R656	1-249-429-11	CARBON	10K	5%	1/4W		R719	1-247-881-00	CARBON	120K	5%	1/4W	
R657	1-249-410-11	CARBON	270	5%	1/4W	F							
R658	1-249-411-11	CARBON	330	5%	1/4W		R721	1-249-429-11	CARBON	10K	5%	1/4W	
R659	1-249-413-11	CARBON	470	5%	1/4W	F	R722	1-249-417-11	CARBON	1K	5%	1/4W	F
							R723	1-249-441-11	CARBON	100K	5%	1/4W	
R660	1-249-414-11	CARBON	560	5%	1/4W	F	R724	1-249-417-11	CARBON	1K	5%	1/4W	F
R661	1-249-415-11	CARBON	680	5%	1/4W	F	R725	1-249-437-11	CARBON	47K	5%	1/4W	
R662	1-249-417-11	CARBON	1K	5%	1/4W	F							
R663	1-249-418-11	CARBON	1.2K	5%	1/4W	F	R726	1-249-429-11	CARBON	10K	5%	1/4W	
R664	1-249-420-11	CARBON	1.8K	5%	1/4W	F	R727	1-249-431-11	CARBON	15K	5%	1/4W	
							R728	1-247-885-00	CARBON	180K	5%	1/4W	
R665	1-249-422-11	CARBON	2.7K	5%	1/4W	F	R729	1-247-807-31	CARBON	100	5%	1/4W	
R666	1-249-417-11	CARBON	1K	5%	1/4W	F	R731	1-249-440-11	CARBON	82K	5%	1/4W	
R667	1-249-417-11	CARBON	1K	5%	1/4W	F							
R668	1-249-441-11	CARBON	100K	5%	1/4W		R732	1-249-437-11	CARBON	47K	5%	1/4W	
R669	1-249-441-11	CARBON	100K	5%	1/4W		R733	1-249-440-11	CARBON	82K	5%	1/4W	
							R734	1-249-417-11	CARBON	1K	5%	1/4W	F

TRANS

以阴影和 \triangle 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

VIDEO

Ref. No.	Part No.	Description	Remark			
	A-4724-927-A	VIDEO BOARD, COMPLETE	*****			
		< CAPACITOR >				
C101	1-124-778-00	ELECT CHIP	22uF	20%	6.3V	
C102	1-163-143-00	CERAMIC CHIP	0.0012uF	5%	50V	
C103	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V	
C104	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	
C105	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C106	1-124-778-00	ELECT CHIP	22uF	20%	6.3V	
C107	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C201	1-124-778-00	ELECT CHIP	22uF	20%	6.3V	
C202	1-163-143-00	CERAMIC CHIP	0.0012uF	5%	50V	
C203	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V	
C501	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	
C503	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	
C504	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	
C505	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C510	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	
C511	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
C512	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C513	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	
C514	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C515	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	
C516	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C517	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C518	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	
C519	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C520	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C521	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C522	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C523	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C524	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C525	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C526	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C527	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C528	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C529	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C530	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C531	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	
C532	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C533	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C534	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C535	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	
C536	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	
C537	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	
C538	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	
C539	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	
C540	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	
C541	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	
C543	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V	
C544	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	
C545	1-165-319-11	CERAMIC CHIP	0.1uF	50V		
C546	1-124-778-00	ELECT CHIP	22uF	20%	6.3V	
C547	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
C548	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
C549	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	
C550	1-165-319-11	CERAMIC CHIP	0.1uF	50V		

Ref. No.	Part No.	Description	Remark		
C551	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C552	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C554	1-104-527-11	FILM CHIP	100PF	5%	50V
C555	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C556	1-104-527-11	FILM CHIP	100PF	5%	50V
C557	1-104-527-11	FILM CHIP	100PF	5%	50V
C558	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C559	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C560	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C561	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C562	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C563	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C564	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C565	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C566	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C567	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C570	1-117-681-11	ELECT CHIP	100uF	20%	16V
C603	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C604	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C605	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C606	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C607	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C608	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C609	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C610	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C611	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C612	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
		< CONNECTOR >			
CN501	1-770-708-11	CONNECTOR, FFC/FPC 25P			
CN502	1-793-580-11	CONNECTOR (LIF) (NON-Z1F)(15P)			
CN505	1-774-766-11	CONNECTOR, FFC/FPC 11P			
		< TRIMMER >			
CT503	1-141-539-11	CAP, ADJ 10PF			
		< DIODE >			
D502	8-719-018-51	DIODE CL-170R-CD-T			
		< FERRITE BEAD >			
FB501	1-469-145-21	FERRITE	0UH		
FB502	1-469-145-21	FERRITE	0UH		
FB503	1-469-145-21	FERRITE	0UH		
		< IC >			
IC503	8-759-530-30	IC TC74VHC04FT(EL)			
IC504	8-759-460-72	IC BA033FP-E2			
IC505	8-759-646-72	IC M30624FGFP			
IC506	8-759-644-61	IC CL8830-PD0			
IC507	8-759-573-19	IC MSM56V16160D-10TS-K			
IC508	8-759-646-85	IC MSM27C401CZ-A4GSKDR1			
IC509	8-759-535-62	IC PCM1727E-2/T2			
IC510	8-759-530-30	IC TC74VHC04FT(EL)			
IC511	8-759-646-38	IC BU2990-03FV			
IC514	8-759-643-06	IC BU1427K			
IC515	8-759-701-39	IC NJM2100M(TE2)			

Ref. No.	Part No.	Description	Remark				Ref. No.	Part No.	Description	Remark			
< JACK >							R510	1-216-073-00	METAL CHIP	10K	5%	1/10W	
							R511	1-216-073-00	METAL CHIP	10K	5%	1/10W	
							R512	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	
J501	1-537-943-11	TERMINAL, S (S VIDEO OUT)					R513	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	
J502	1-774-227-11	JACK, PIN 1P (VIDEO OUT)					R514	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	
< JUMPER RESISTOR >							R515	1-216-073-00	METAL CHIP	10K	5%	1/10W	
							R516	1-216-025-91	RES,CHIP	100	5%	1/10W	
							R517	1-216-025-91	RES,CHIP	100	5%	1/10W	
JW503	1-216-295-91	SHORT	0				R518	1-216-025-91	RES,CHIP	100	5%	1/10W	
JW504	1-216-295-91	SHORT	0				R519	1-216-073-00	METAL CHIP	10K	5%	1/10W	
JW506	1-216-295-91	SHORT	0				R520	1-216-073-00	METAL CHIP	10K	5%	1/10W	
JW514	1-216-295-91	SHORT	0				R521	1-216-073-00	METAL CHIP	10K	5%	1/10W	
JW515	1-216-295-91	SHORT	0				R522	1-216-025-91	RES,CHIP	100	5%	1/10W	
JW526	1-216-295-91	SHORT	0				R524	1-216-025-91	RES,CHIP	100	5%	1/10W	
JW527	1-216-295-91	SHORT	0				R525	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
JW538	1-216-295-91	SHORT	0				R530	1-216-073-00	METAL CHIP	10K	5%	1/10W	
JW539	1-216-295-91	SHORT	0				R531	1-216-073-00	METAL CHIP	10K	5%	1/10W	
JW541	1-216-295-91	SHORT	0				R532	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	
JW542	1-216-295-91	SHORT	0				R533	1-216-073-00	METAL CHIP	10K	5%	1/10W	
JW543	1-216-295-91	SHORT	0				R534	1-216-073-00	METAL CHIP	10K	5%	1/10W	
JW544	1-216-295-91	SHORT	0				R537	1-216-073-00	METAL CHIP	10K	5%	1/10W	
JW545	1-216-295-91	SHORT	0				R538	1-216-025-91	RES,CHIP	100	5%	1/10W	
JW546	1-216-295-91	SHORT	0				R539	1-216-025-91	RES,CHIP	100	5%	1/10W	
JW547	1-216-295-91	SHORT	0				R540	1-216-025-91	RES,CHIP	100	5%	1/10W	
JW548	1-216-295-91	SHORT	0				R541	1-216-025-91	RES,CHIP	100	5%	1/10W	
< COIL >							R542	1-216-295-91	SHORT	0			
							R543	1-216-295-91	SHORT	0			
							R544	1-216-295-91	SHORT	0			
L501	1-216-296-91	SHORT	0				R545	1-216-029-00	METAL CHIP	150	5%	1/10W	
L502	1-216-296-91	SHORT	0				R546	1-216-121-91	RES,CHIP	1M	5%	1/10W	
L503	1-410-370-31	INDUCTOR CHIP	1.2uH				R547	1-216-025-91	RES,CHIP	100	5%	1/10W	
L504	1-410-375-11	INDUCTOR CHIP	3.3uH				R548	1-216-025-91	RES,CHIP	100	5%	1/10W	
L505	1-410-370-31	INDUCTOR CHIP	1.2uH				R549	1-216-025-91	RES,CHIP	100	5%	1/10W	
L506	1-216-296-91	SHORT	0				R550	1-216-025-91	RES,CHIP	100	5%	1/10W	
L507	1-216-296-91	SHORT	0				R551	1-216-025-91	RES,CHIP	100	5%	1/10W	
L508	1-216-296-91	SHORT	0				R552	1-216-025-91	RES,CHIP	100	5%	1/10W	
L509	1-216-296-91	SHORT	0				R553	1-216-025-91	RES,CHIP	100	5%	1/10W	
L517	1-216-296-91	SHORT	0				R554	1-216-025-91	RES,CHIP	100	5%	1/10W	
L518	1-216-296-91	SHORT	0				R555	1-216-025-91	RES,CHIP	100	5%	1/10W	
L519	1-410-374-11	INDUCTOR CHIP	2.7uH				R556	1-216-295-91	SHORT	0			
L520	1-410-374-11	INDUCTOR CHIP	2.7uH				R557	1-216-295-91	SHORT	0			
L521	1-410-374-11	INDUCTOR CHIP	2.7uH				R558	1-216-295-91	SHORT	0			
< RESISTOR >							R559	1-216-073-00	METAL CHIP	10K	5%	1/10W	
							R560	1-216-073-00	METAL CHIP	10K	5%	1/10W	
							R561	1-216-295-91	SHORT	0			
R101	1-216-073-00	METAL CHIP	10K	5%	1/10W	R562	1-216-022-00	METAL CHIP	75	5%	1/10W		
R102	1-208-441-61	RES,CHIP	1.5K	2%	1/10W	R563	1-216-022-00	METAL CHIP	75	5%	1/10W		
R103	1-208-441-61	RES,CHIP	1.5K	2%	1/10W	R564	1-216-022-00	METAL CHIP	75	5%	1/10W		
R104	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	R565	1-216-073-00	METAL CHIP	10K	5%	1/10W		
R105	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	R566	1-216-073-00	METAL CHIP	10K	5%	1/10W		
R201	1-216-073-00	METAL CHIP	10K	5%	1/10W	R567	1-216-051-00	METAL CHIP	1.2K	5%	1/10W		
R202	1-208-441-61	RES,CHIP	1.5K	2%	1/10W	R568	1-216-295-91	SHORT	0				
R203	1-208-441-61	RES,CHIP	1.5K	2%	1/10W	R569	1-216-073-00	METAL CHIP	10K	5%	1/10W		
R501	1-216-025-91	RES,CHIP	100	5%	1/10W	R599	1-216-049-91	RES,CHIP	1K	5%	1/10W		
R502	1-216-025-91	RES,CHIP	100	5%	1/10W	R600	1-216-025-91	RES,CHIP	100	5%	1/10W		
R503	1-216-025-91	RES,CHIP	100	5%	1/10W	R605	1-216-017-91	RES,CHIP	47	5%	1/10W		
R504	1-216-073-00	METAL CHIP	10K	5%	1/10W	R606	1-216-017-91	RES,CHIP	47	5%	1/10W		
R505	1-216-073-00	METAL CHIP	10K	5%	1/10W	R607	1-216-017-91	RES,CHIP	47	5%	1/10W		
R506	1-216-025-91	RES,CHIP	100	5%	1/10W	R608	1-216-017-91	RES,CHIP	47	5%	1/10W		
R507	1-216-073-00	METAL CHIP	10K	5%	1/10W								

VIDEO

Ref. No.	Part No.	Description			Remark
R609	1-216-017-91	RES,CHIP	47	5%	1/10W
R610	1-216-017-91	RES,CHIP	47	5%	1/10W
R611	1-216-017-91	RES,CHIP	47	5%	1/10W
R612	1-216-017-91	RES,CHIP	47	5%	1/10W
R613	1-216-017-91	RES,CHIP	47	5%	1/10W
R614	1-216-017-91	RES,CHIP	47	5%	1/10W
R615	1-216-017-91	RES,CHIP	47	5%	1/10W
R616	1-216-017-91	RES,CHIP	47	5%	1/10W
R617	1-216-017-91	RES,CHIP	47	5%	1/10W
R618	1-216-017-91	RES,CHIP	47	5%	1/10W
R619	1-216-017-91	RES,CHIP	47	5%	1/10W
R620	1-216-017-91	RES,CHIP	47	5%	1/10W
R621	1-216-017-91	RES,CHIP	47	5%	1/10W
R622	1-216-017-91	RES,CHIP	47	5%	1/10W
R623	1-216-017-91	RES,CHIP	47	5%	1/10W
R624	1-216-017-91	RES,CHIP	47	5%	1/10W
R625	1-216-017-91	RES,CHIP	47	5%	1/10W
R626	1-216-017-91	RES,CHIP	47	5%	1/10W
R627	1-216-017-91	RES,CHIP	47	5%	1/10W
R628	1-216-017-91	RES,CHIP	47	5%	1/10W
R629	1-216-017-91	RES,CHIP	47	5%	1/10W
R630	1-216-017-91	RES,CHIP	47	5%	1/10W
R631	1-216-017-91	RES,CHIP	47	5%	1/10W
R632	1-216-017-91	RES,CHIP	47	5%	1/10W
R633	1-216-017-91	RES,CHIP	47	5%	1/10W
R634	1-216-017-91	RES,CHIP	47	5%	1/10W
R635	1-216-017-91	RES,CHIP	47	5%	1/10W
R636	1-216-017-91	RES,CHIP	47	5%	1/10W
R637	1-216-017-91	RES,CHIP	47	5%	1/10W
R638	1-216-017-91	RES,CHIP	47	5%	1/10W
R639	1-216-017-91	RES,CHIP	47	5%	1/10W
R640	1-216-017-91	RES,CHIP	47	5%	1/10W
R641	1-216-017-91	RES,CHIP	47	5%	1/10W
R642	1-216-017-91	RES,CHIP	47	5%	1/10W
R643	1-216-017-91	RES,CHIP	47	5%	1/10W
R644	1-216-017-91	RES,CHIP	47	5%	1/10W
R645	1-216-017-91	RES,CHIP	47	5%	1/10W
R646	1-216-017-91	RES,CHIP	47	5%	1/10W
R1517	1-216-033-00	METAL CHIP	220	5%	1/10W
R1518	1-216-033-00	METAL CHIP	220	5%	1/10W
R1519	1-216-033-00	METAL CHIP	220	5%	1/10W
R1520	1-216-033-00	METAL CHIP	220	5%	1/10W
R1521	1-216-033-00	METAL CHIP	220	5%	1/10W
R1522	1-216-033-00	METAL CHIP	220	5%	1/10W
R1523	1-216-033-00	METAL CHIP	220	5%	1/10W
R1524	1-216-033-00	METAL CHIP	220	5%	1/10W
< SWITCH >					
S501	1-571-395-11	SWITCH, SLIDE (SYSTEM SELECT)			
< VIBRATOR >					
X501	1-767-510-11	VIBRATOR, CERAMIC (10MHz)			
X503	1-767-519-11	VIBRATOR, CRYSTAL (27MHz)			

Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	

5	1-693-381-11	TUNER UNIT (FM/AM)	
9	1-791-517-11	WIRE (FLAT TYPE) (15 CORE)	
10	1-775-229-11	WIRE (FLAT TYPE) (25 CORE)	
55	1-773-008-11	WIRE (FLAT TYPE) (15 CORE) (140 mm)	
56	1-773-049-11	WIRE (FLAT TYPE) (17 CORE)	
△ 59	1-782-464-21	CORD, POWER	
62	1-773-023-11	WIRE (FLAT TYPE) (15 CORE) (310 mm)	
116	1-773-189-11	WIRE (FLAT TYPE) (23 CORE)	
121	1-674-232-11	PUSH CATCH STOP BOARD	
257	1-452-925-21	MAGNET ASSY	
258	1-776-042-11	WIRE (FLAT TYPE) (8 CORE)	
△ 301	8-820-020-02	OPTICAL PICK-UP KSS-213D/Q-NP	
302	1-769-069-11	WIRE (FLAT TYPE) (16 CORE)	
FL601	1-517-831-31	INDICATOR TUBE, FLUORESCENT	
HP101	A-2056-681-B	DECK (A) ASSY, HEAD	
HRPE101	A-2056-682-B	DECK (B) ASSY, HEAD	
M1	A-2004-628-A	MOTOR ASSY, CAPSTAN	
M101	X-4917-523-3	MOTOR ASSY (SPINDLE)	
M102	X-4917-504-1	MOTOR ASSY (SLED)	
M701	A-4672-004-A	MOTOR ASSY (TURN)	
M801	A-4672-004-A	MOTOR ASSY (SLIDE)	
M901	1-763-072-11	FAN, D.C.	
S811	1-473-335-11	ENCODER, ROTARY	
△ T951	1-433-555-21	TRANSFORMER, POWER	

HARDWARE LIST			

#1	7-685-871-01	SCREW +BVTT 3X6 (S)	
#2	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#3	7-685-881-09	SCREW +BVTT 4X8 (S)	
#4	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3	
#5	7-685-852-04	SCREW +BVTT 2X5 (S)	
#6	7-621-775-10	SCREW +B 2.6X4	
#7	7-685-872-09	SCREW +BVTT 3X8 (S)	
#8	7-685-851-04	SCREW +BVTT 2X4 (S)	
#9	7-628-254-15	SCREW +PS 2.6X6	
#10	7-628-254-50	SCREW +PS 2.6X16	
#11	7-685-861-01	SCREW +BVTT 2.6X5 (S)	
#12	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.	以阴影和 △ 标志来识别的零部件，在安全方面具有关键性。因此只能以规定号码的零部件来更换。
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