

HCD-XGV11AV

SERVICE MANUAL

E Model

Ver 1.0 2003.05



- HCD-XGV11AV is the Amplifier, CD player, tape deck and tuner section in LBT-XGV11AV.

CD Section	Model Name Using Similar Mechanism	HCD-XGV6/XGV8/XGV10AV
	CD Mechanism Type	CDM37B-30BD62
	Base Unit Name	BU-30BD62
	Optical Pick-up Name	A-MAX.3
TAPE Section	Model Name Using Similar Mechanism	NEW
	Tape Mechanism Type	CWM43RR23

SPECIFICATIONS

Amplifier section

Front speaker:

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

DIN power output (rated): 150 + 150 watts
(6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference):
200 + 200 watts
(6 ohms at 1 kHz, 10% THD)

Center speaker:

DIN power output (rated): 35 watts
(8 ohms at 1 kHz, DIN)

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

Surround speaker:

DIN power output (rated): 35 + 35 watts
(8 ohms at 1 kHz, DIN)

Continuous RMS power output (reference):
50 + 50 watts
(8 ohms at 1 kHz, 10% THD)

Inputs

PHONO IN (phono jacks): sensitivity 3 mV,
impedance 47 kilohms

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

GAME INPUT AUDIO (phono jacks):
sensitivity 250 mV,
impedance 47 kilohms

GAME INPUT VIDEO (phono jack): 1Vp-p, 75 ohms
MD (VIDEO) IN (phono jacks): sensitivity 450 mV
(250 mV), impedance
47 kilohms

DVD INPUT

FRONT, REAR, CENTER, WOOFER (phono jacks):
sensitivity 450 mV,
impedance 47 kilohms
DVD VIDEO INPUT (phono jack):
1Vp-p, 75 ohms

Outputs

PHONES (stereo phone jack): accepts headphones of
8 ohms or more
voltage 250 mV,
impedance 1 kilohm

MD (VIDEO) OUT (phono jacks):
max. output level 1Vp-p,
load impedance 75 ohms

VIDEO OUT (phono jack):
voltage 1 V,
impedance 1 kilohm

SUB WOOFER OUT (phono jack):
voltage 1 V,
impedance 1 kilohm

FRONT SPEAKER:
accepts impedance of 6 to
16 ohms

CENTER SPEAKER:
accepts impedance of 8 to
16 ohms

— Continued on next page —

COMPONENT Hi-Fi STEREO SYSTEM

9-877-430-01

2003E02-1

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Sony Corporation

Home Audio Company

Published by Sony Engineering Corporation

SONY®

HCD-XGV11AV

SURROUND SPEAKER: accepts impedance of 8 to 16 ohms

CD player section

System Compact disc digital audio system
Laser Semiconductor laser
($\lambda=795$ nm)
Emission duration: continuous
Frequency response 2 Hz – 20 kHz (± 0.5 dB)
Signal-to-noise ratio More than 90 dB
Dynamic range More than 90 dB
Video color system format NTSC, PAL

Tape deck section

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

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range: 87.5 – 108.0 MHz
(50 kHz step)

Antenna FM lead antenna
Antenna terminals 75 ohms unbalanced
Intermediate frequency 10.7 MHz

AM tuner section

Tuning range: 530 – 1,710 kHz
(with the tuning interval set at 10 kHz)
531 – 1,602 kHz
(with the tuning interval set at 9 kHz)
AM loop antenna

Antenna External antenna terminal
Antenna terminals External antenna terminal
Intermediate frequency 450 kHz

General

Power requirements 120 V, 220 V or
230 – 240 V AC, 50/60 Hz
Adjustable with voltage selector
Power consumption 230 watts
Dimensions (w/h/d) Approx. 355 x 425 x 451 mm
Mass Approx. 15.4 kg

Design and specifications are subject to change without notice.

Notes on chip component replacement

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

Flexible Circuit Board Repairing

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

CAUTION

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

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

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

CAUTION : INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.
ADVARSEL : USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.
VORSICHT : UNSICHTBARE LASERSTRALUNG. WENN ABDECKUNG GEÖFFNET UND SICHERHEITSVERRIEGELUNG ÜBERBRÜCKT, NICHT DEM STRAHL AUSSETZEN.
VARO! : AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTIINA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VARNING : OSYNLIG LASERSTRÅLING NÅR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD, BETRÄKTA EJ STRÅLEN.
ADVERSEL : USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES OG SIKKERHEDSLÅS BRYTES. UNNGÅ EKSPONERING FOR STRÅLEN.
VIGYAZAT! : A BURKOLAT NYITÁSAKOR LÁTHATATLAN LÉZERSUGÁRVESZÉLY! KERÜLJE A BESUGÁRZÁST!

SAFETY-RELATED COMPONENT WARNING!!

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

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

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

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

NOTES ON LASER DIODE EMISSION CHECK

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

LASER DIODE AND FOCUS SEARCH OPERATION CHECK

Carry out the "S curve check" in "CD section adjustment" and check that the S curve waveforms is output three times.

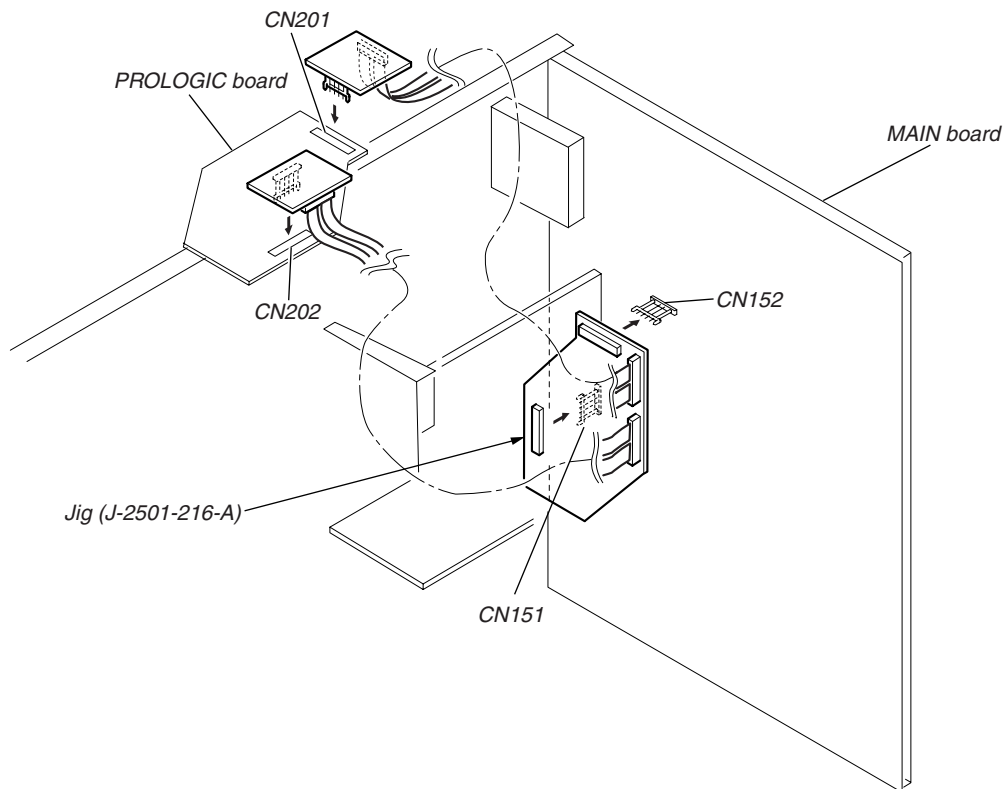
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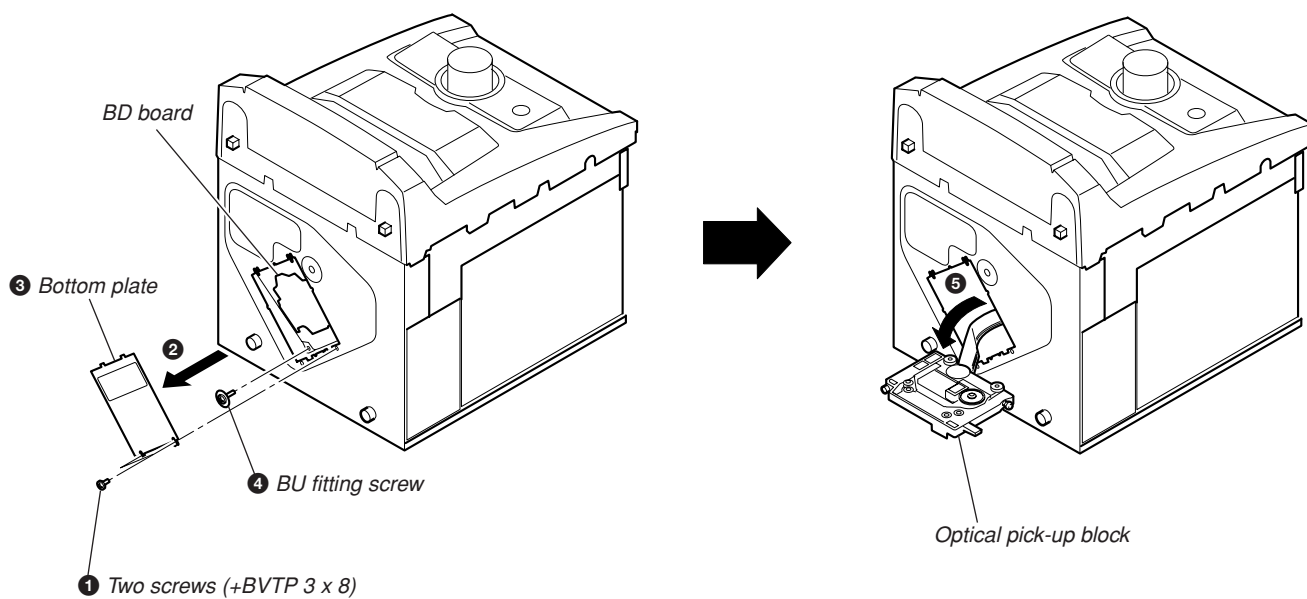
SECTION 1 SERVICING NOTE

JIG FOR CHECKING PROLOGIC BOARD

The special jig (J-2501-216-A) is useful for checking the PROLOGIC board.



SERVICE POSITION FOR BD BOARD AND OPTICAL PICK-UP BLOCK



SECTION 2 GENERAL

HCD-XGV11AV

This section is extracted from instruction manual.

Main unit

ALPHABETICAL ORDER

A - D

ALBUM +/- [16]
 CD SYNC [14]
 Deck A [22]
 Deck B [20]
 Direct equalizer [36]
 SALSA/REGGAE/TANGO/
 MOVIE/GAME/SAMBA/
 ROCK/JAZZ/DANCE/POP
 DIRECTION [28]
 DISC 1 - 5 [40]
 DISC SKIP [40]
 Disc tray [23]
 DISPLAY [2]
 Display window [7]
 DVD 5.1CH [32]

E - L

ECHO LEVEL [27]
 EDIT [24]
 EFFECT [39]
 ENTER [37]
 FM MODE [12]
 FUNCTION [11]
 GAME [31]
 GAME INPUT AUDIO L/R jacks [18]
 GAME INPUT VIDEO jack [18]
 GAME MIXING [30]
 ILLUMINATION [4]
 KARAOKE/MPX [35]

M - R

MEMORY [12]
 MIC-1/MIC-2 jacks [25]
 MIC LEVEL [26]
 P FILE [38]
 PHONES jack [15]
 PLAY MODE [24]
 Power illuminator [5]
 PRO LOGIC [34]
 PUSH OPEN [23]
 Remote sensor [3]
 REPEAT [24]

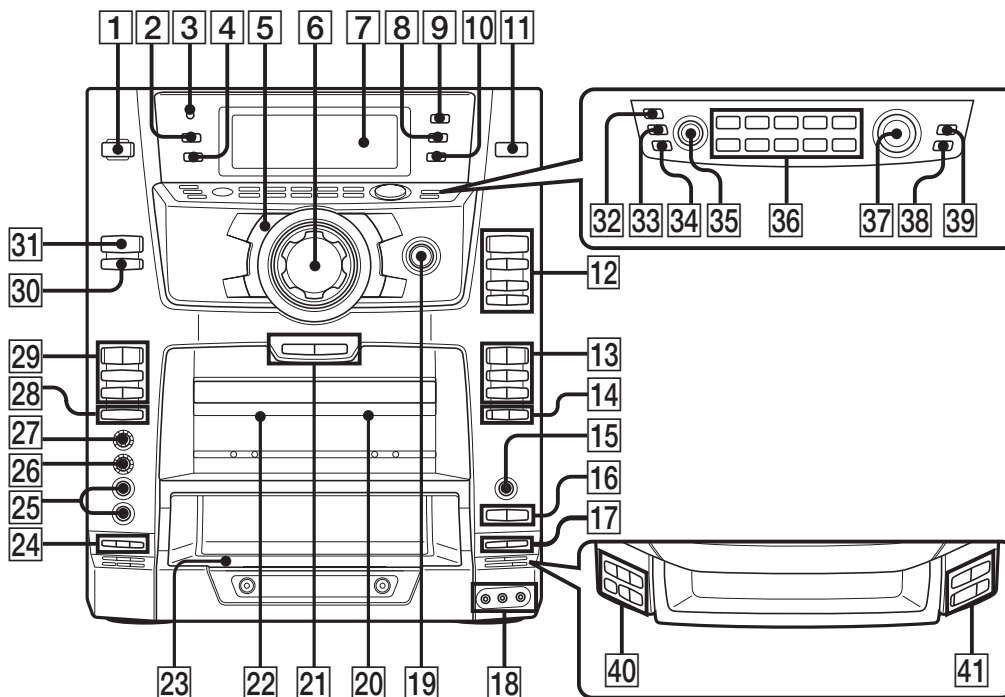
S - Z

SLEEP [9]
 SURROUND [33]
 TIMER SELECT [8]
 TUNER ENTER [12]
 TUNER/BAND [12]
 TUNING MODE [12]
 TUNING +/- [12]
 VOLUME control [6]
 X-GROOVE [19]

BUTTON DESCRIPTIONS

I/⏻ (power) [1]
 ⌚/CLOCK SET [10]
 ⏸ (pause) [13]
 ⏪/▶ (play) [13] [29]
 ■ (stop) [13] [29]
 ⏮⏮⏮/▶▶▶⏭ (rewind/fast forward) [13] [29]
 ● REC [14]

⏮/▶ (go back/go forward) [17]
 ⬆/⬇/⬅/➡ (cursor) [37]
 ⏮/▶ (rewind/fast forward) [41]
 ▶⏸ (play/pause) [41]
 ■ (stop) [41]
 A EJECT ▲/▲ B EJECT (eject) [21]



This section is extracted from instruction manual.

Remote control

ALPHABETICAL ORDER

A - N

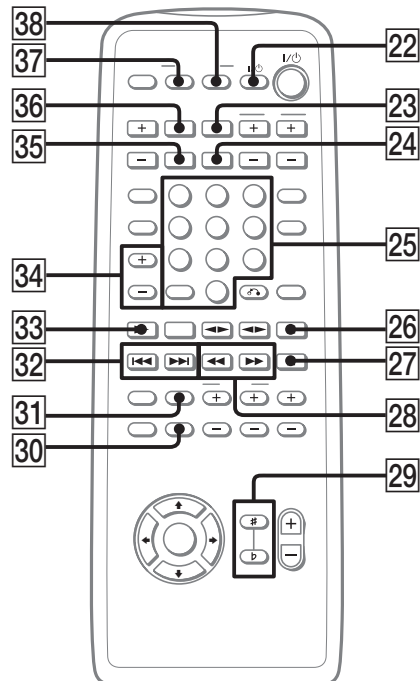
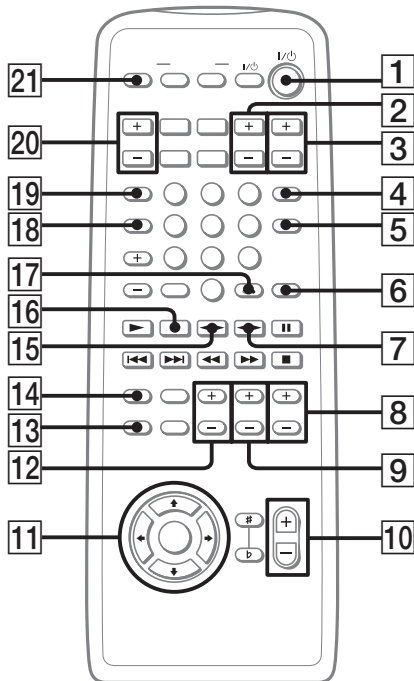
- ALBUM +/- 20
- CENTER LEVEL +/- 12
- CLEAR 24
- CLOCK/TIMER SELECT 37
- CLOCK/TIMER SET 38
- DISC SKIP 35
- DISPLAY 36
- DVD 5.1CH 13
- EFFECT 6
- ENTER 11
- FILE SELECT +/- 8
- FUNCTION +/- 34
- NEXT 32
- Number buttons 25

O - Z

- ON SCREEN 23
- PLAY MODE 19
- PRESET +/- 32
- PREV 32
- PRO LOGIC 31
- REPEAT 18
- SELECT 33
- SLEEP 21
- SPECIAL MENU 5
- SURR 14
- SURR LEVEL +/- 9
- TEST TONE 30
- TUNER/BAND 16
- TUNING +/- 28
- TV CH +/- 3
- TV/VIDEO 4
- TV VOL +/- 2
- VOL +/- 10

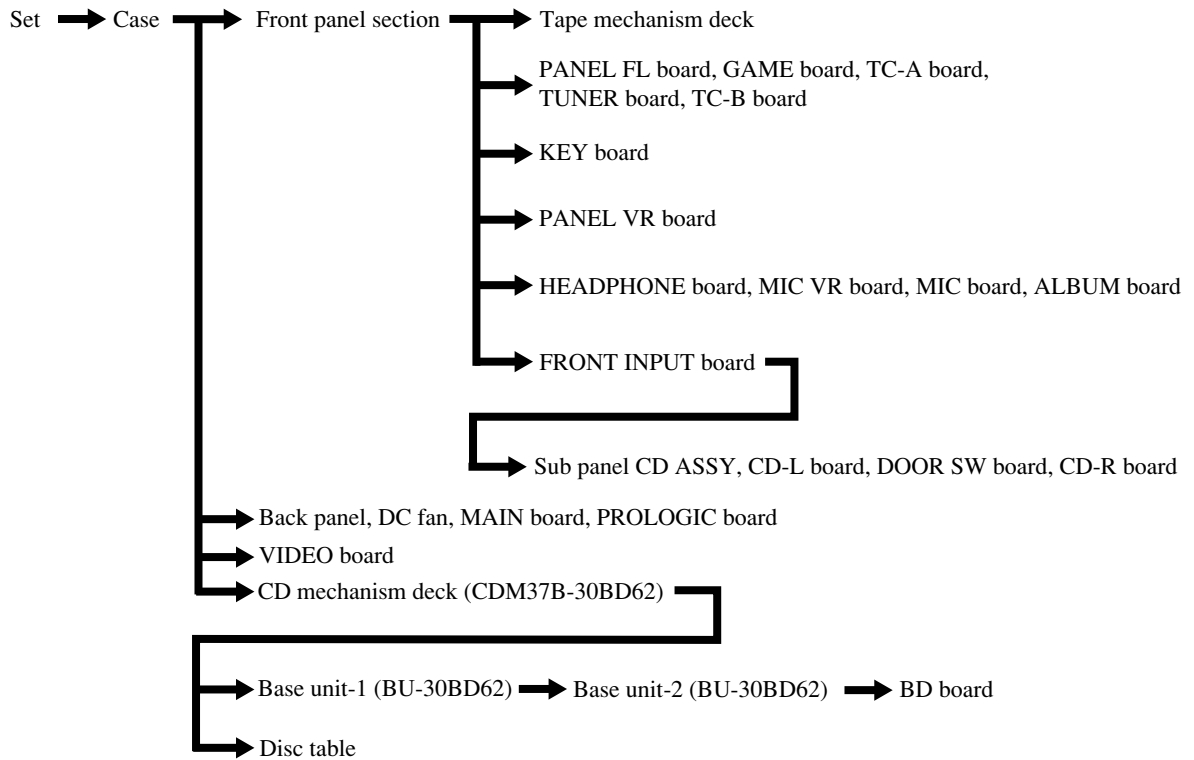
BUTTON DESCRIPTIONS

- I/⏻ (power) 1
- ↑/↓/←/→ (cursor) 11
- ⏸ (pause) 26
- (stop) 27
- ⏮/⏭ (rewind/fast forward) 28
- ⏪/⏩ (go back/go forward) 32
- CD ▶ (play) 33
- KEY CONTROL #/b 29
- RETURN ↶ 17
- TAPE A ◀▶ (play) 15
- TAPE B ◀▶ (play) 7
- TV I/⏻ 22



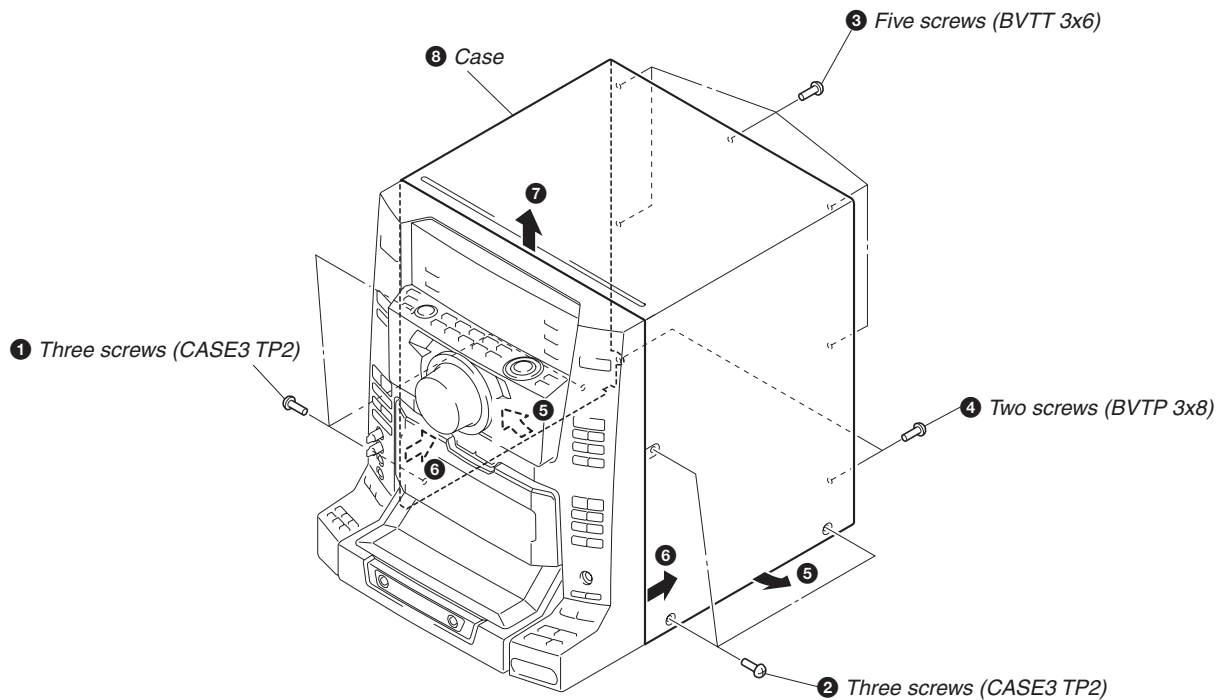
SECTION 3 DISASSEMBLY

• The equipment can be removed using the following procedure.

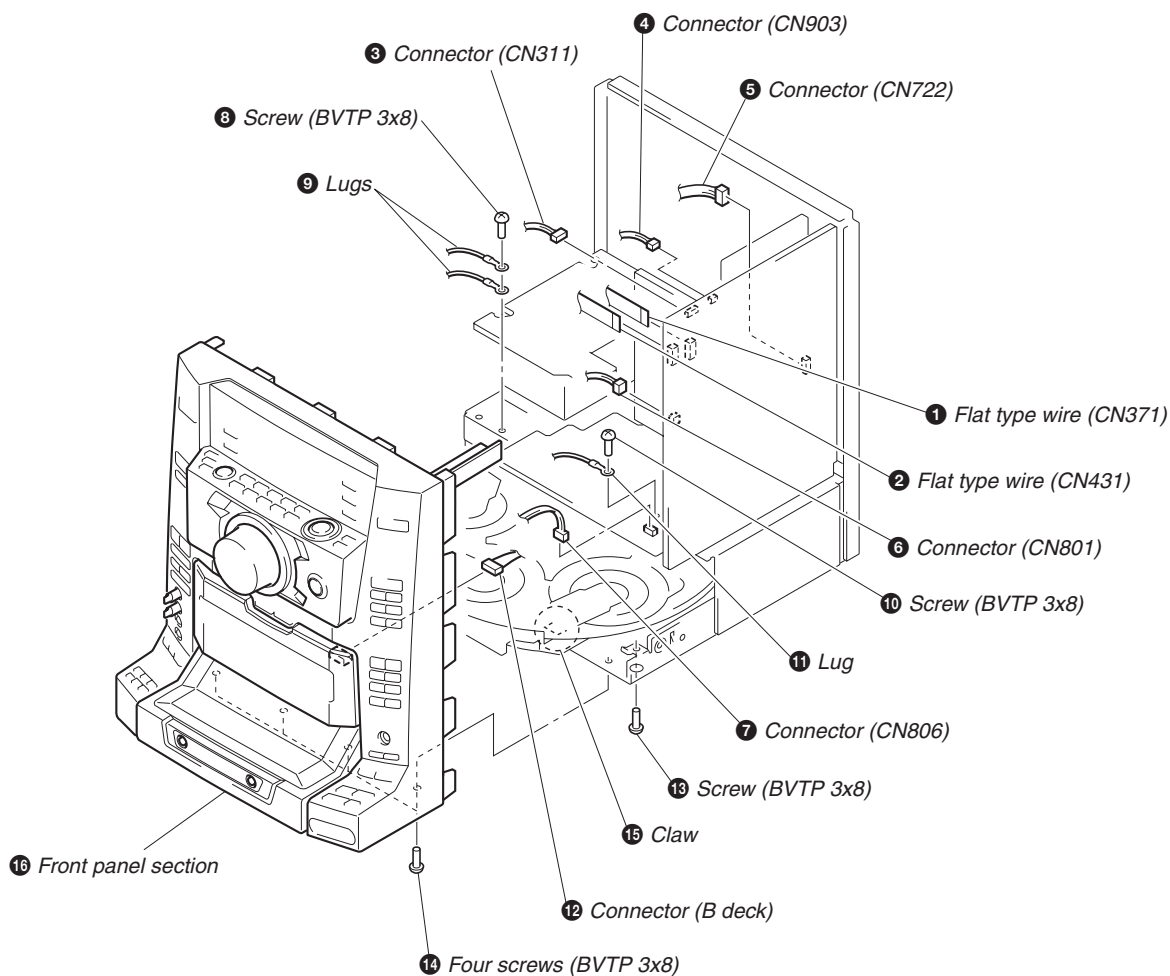


Note : Follow the disassembly procedure in the numerical order given.

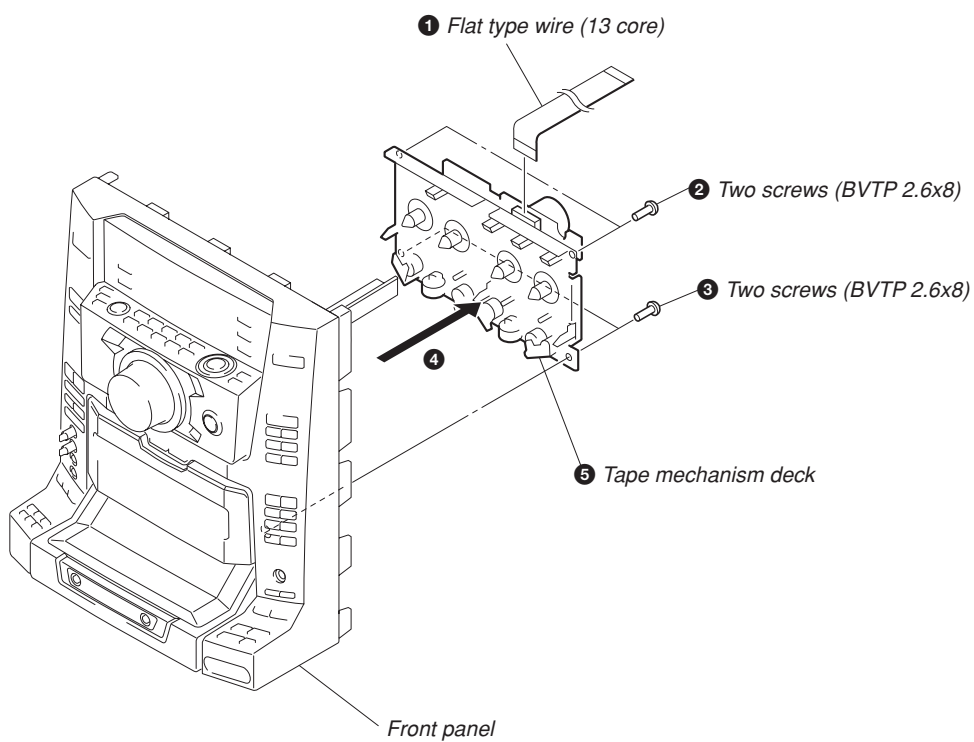
3-1. CASE



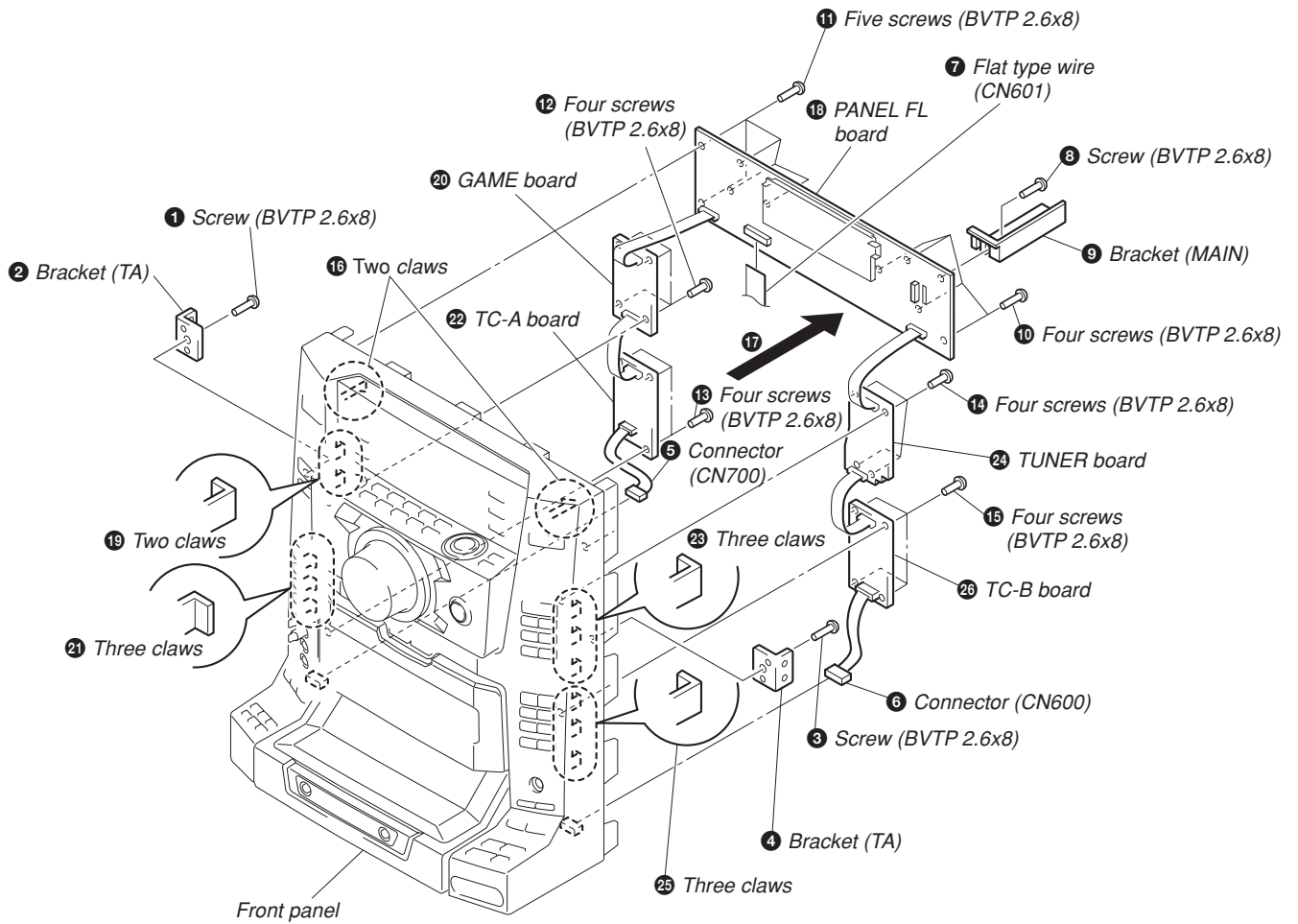
3-2. FRONT PANEL SECTION



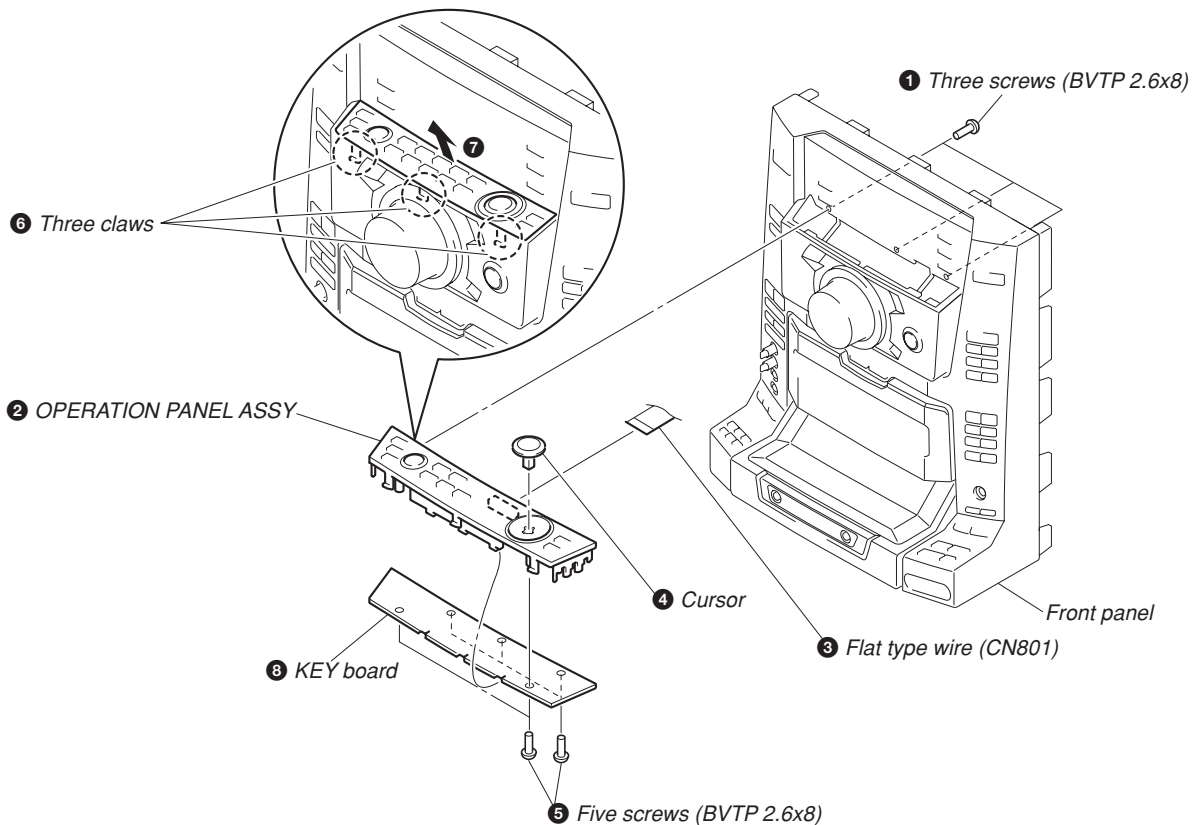
3-3. TAPE MECHANISM DECK



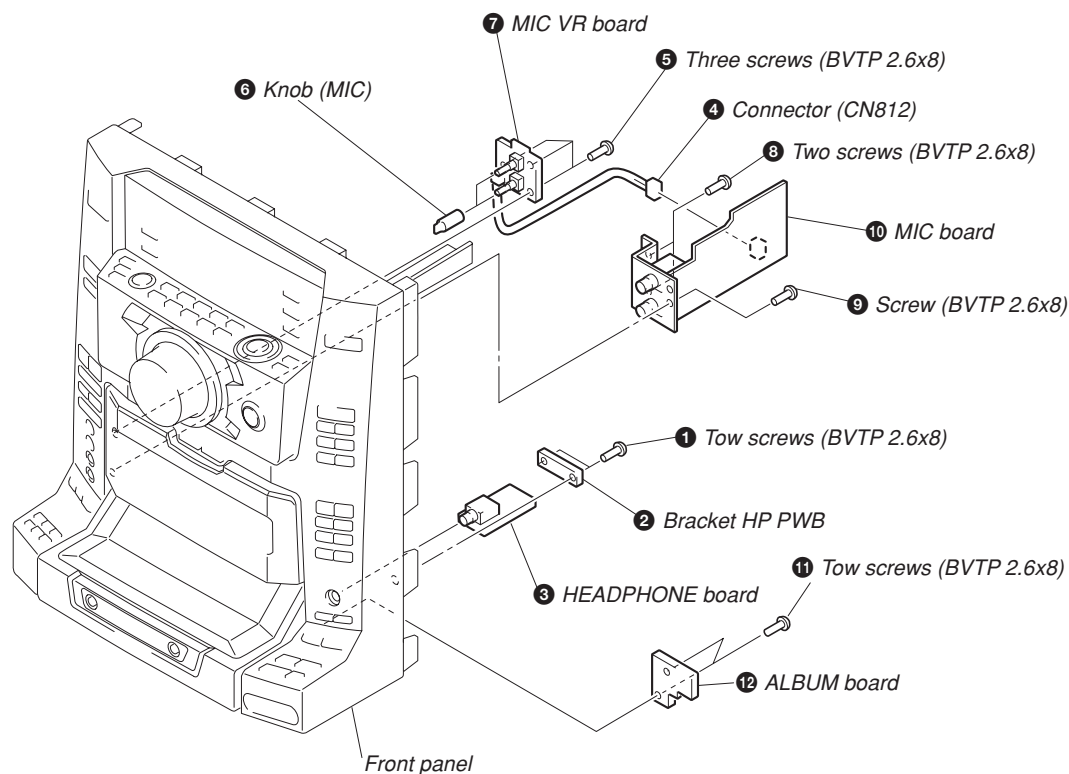
3-4. PANEL FL BOARD, GAME BOARD, TC-A BOARD, TUNER BOARD, TC-B BOARD



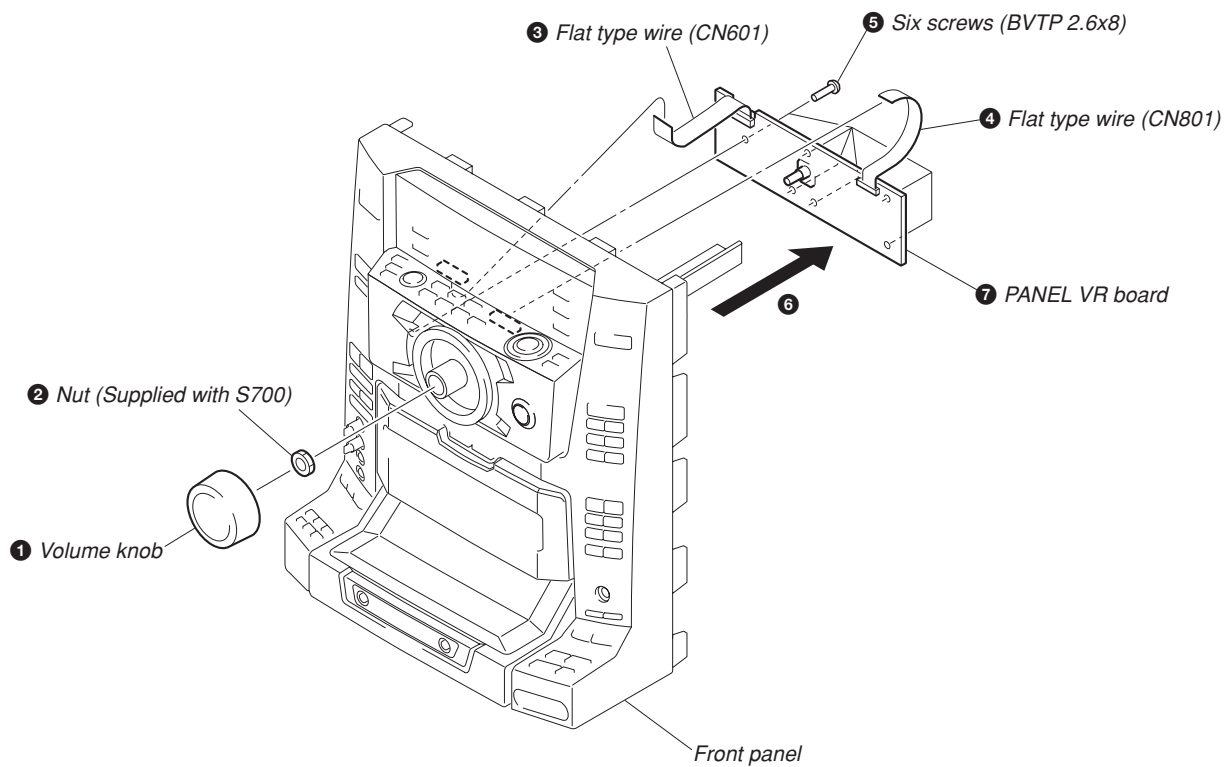
3-5. KEY BOARD



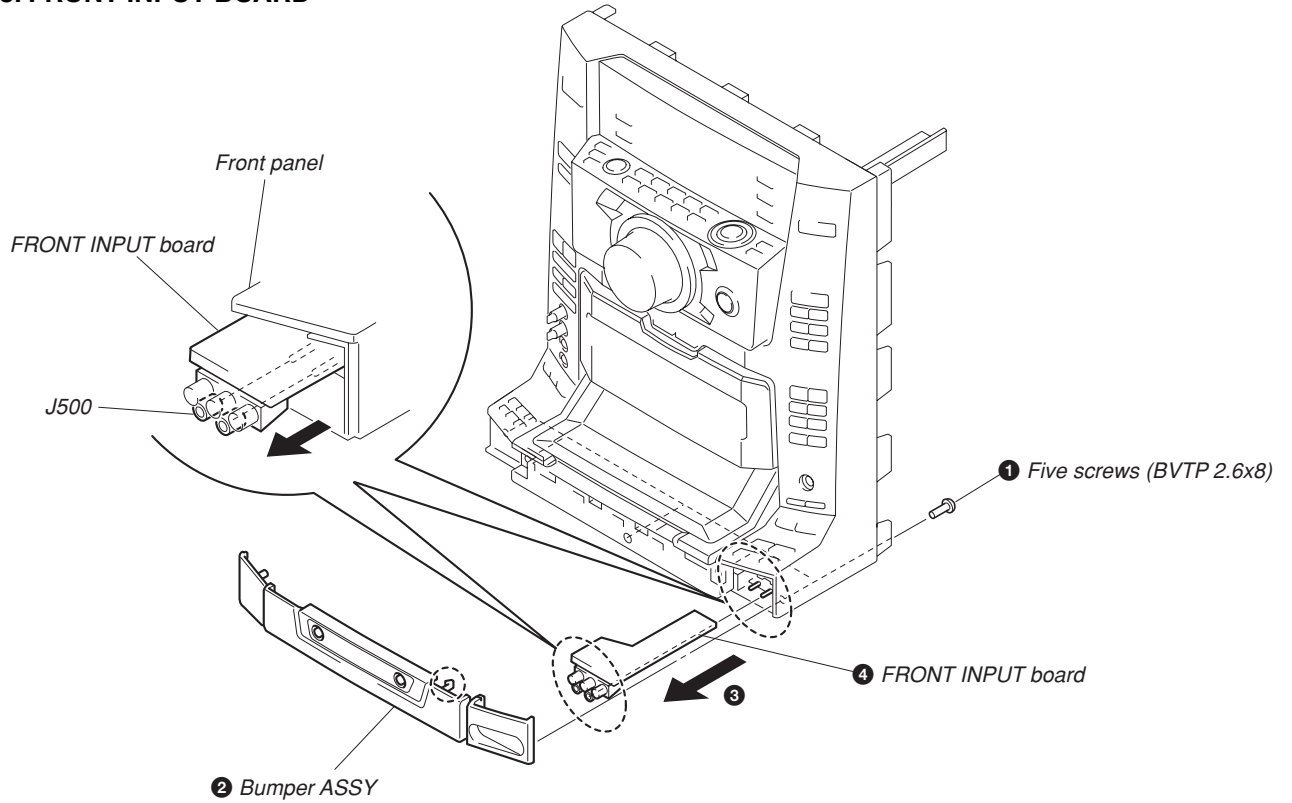
3-6. HEADPHONE BOARD, MIC VR BOARD, MIC BOARD, ALBUM BOARD



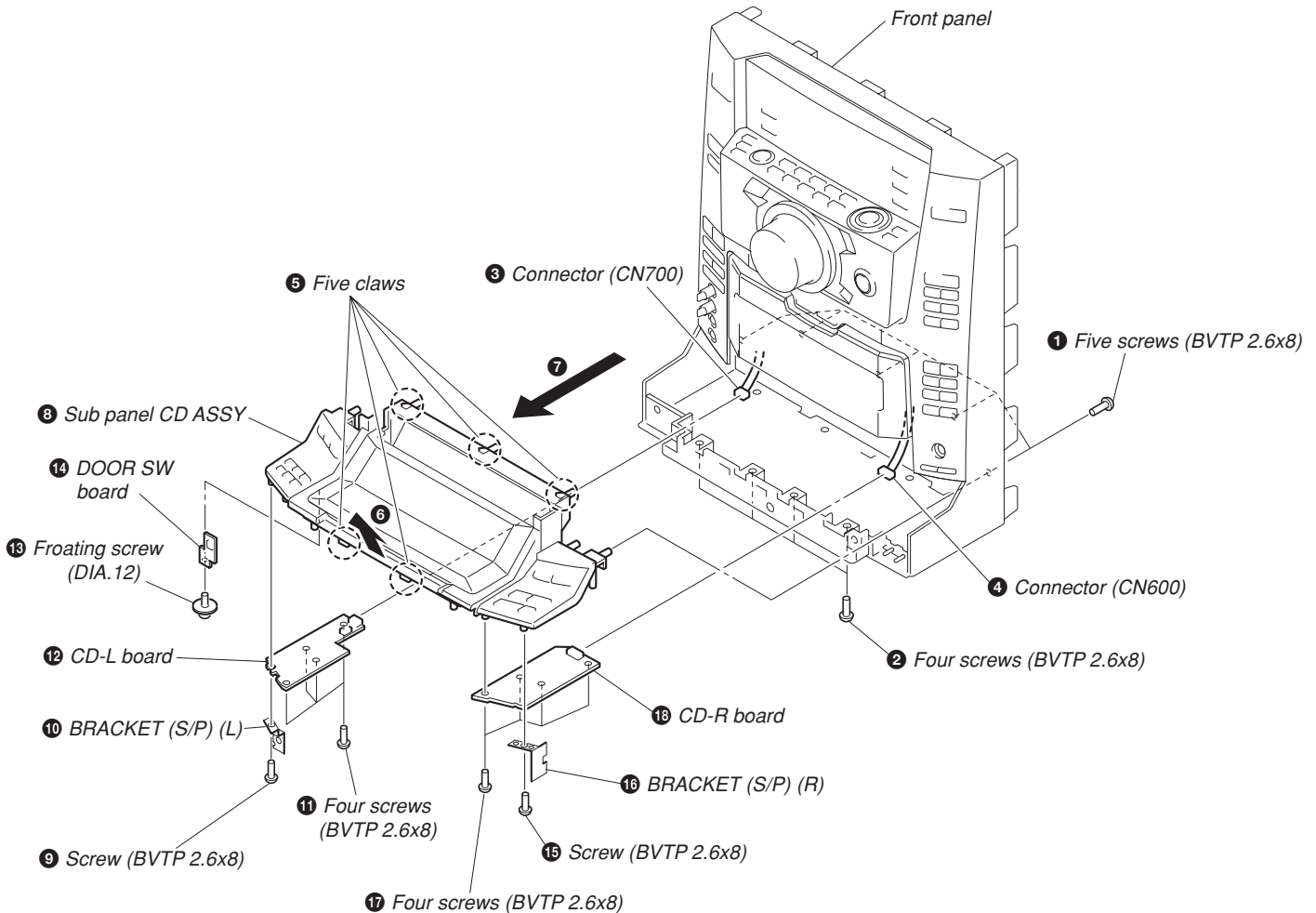
3-7. PANEL VR BOARD



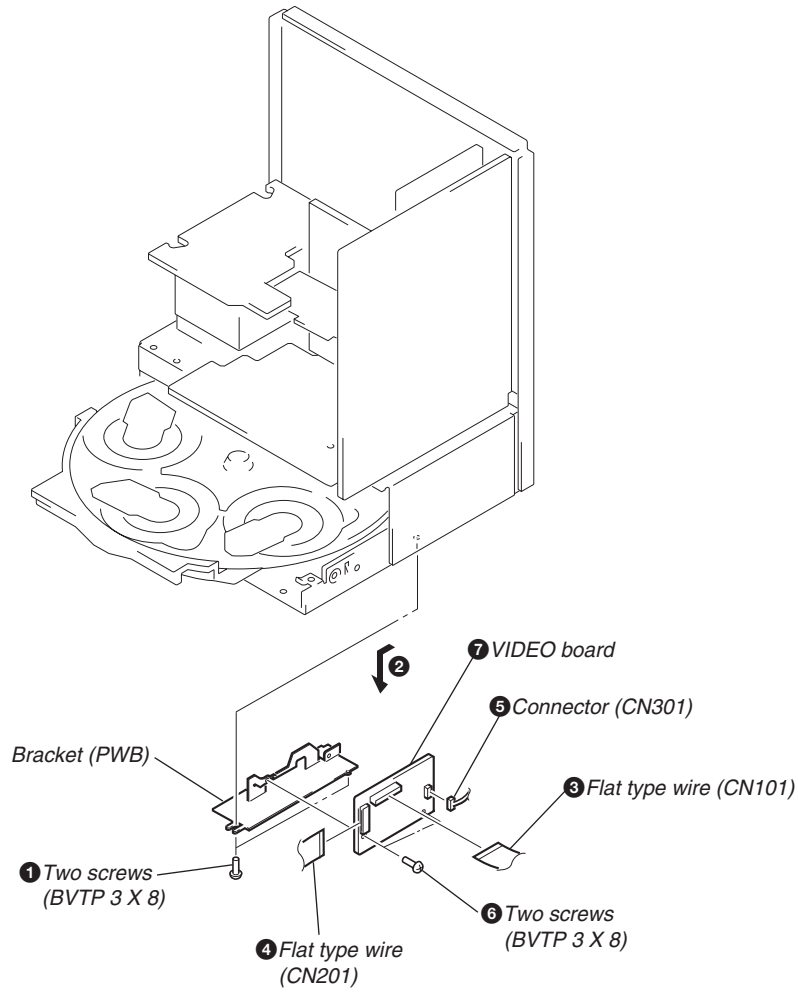
3-8. FRONT INPUT BOARD



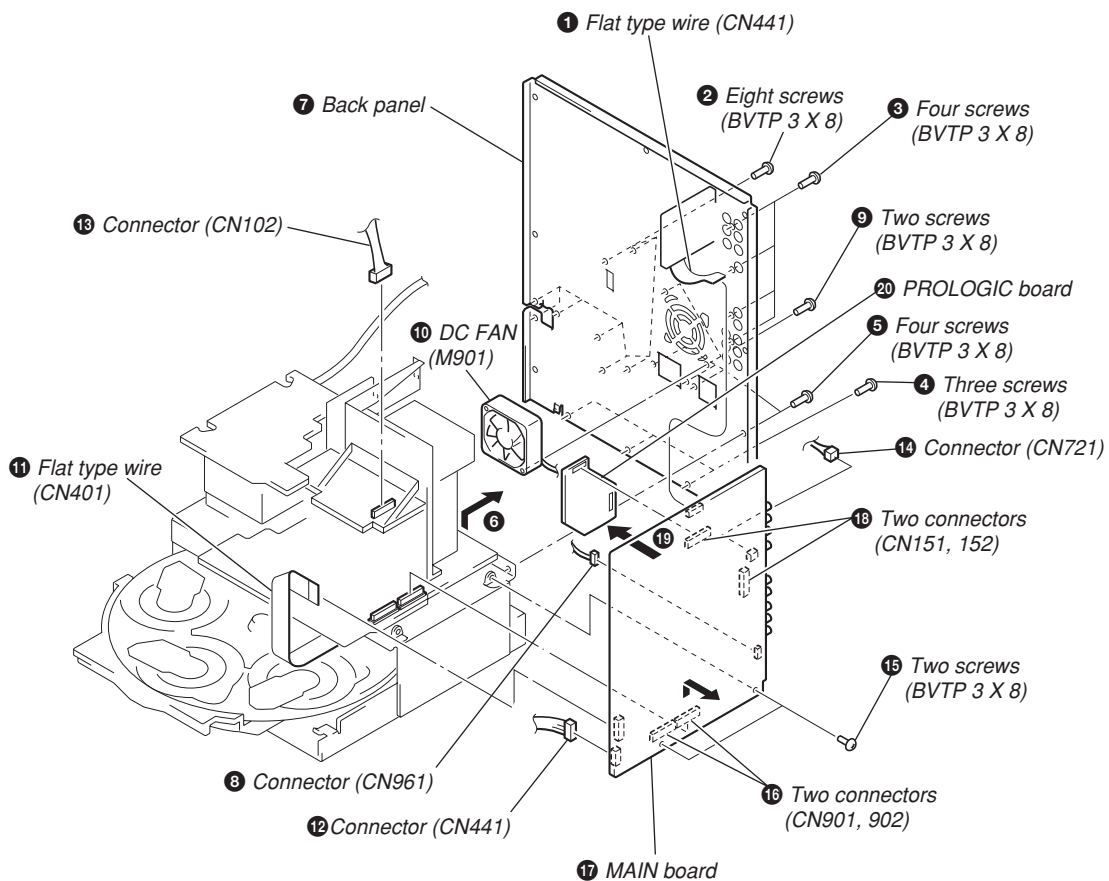
3-9. SUB PANEL CD ASSY, CD-L BOARD, DOOR SW BOARD, CD-R BOARD



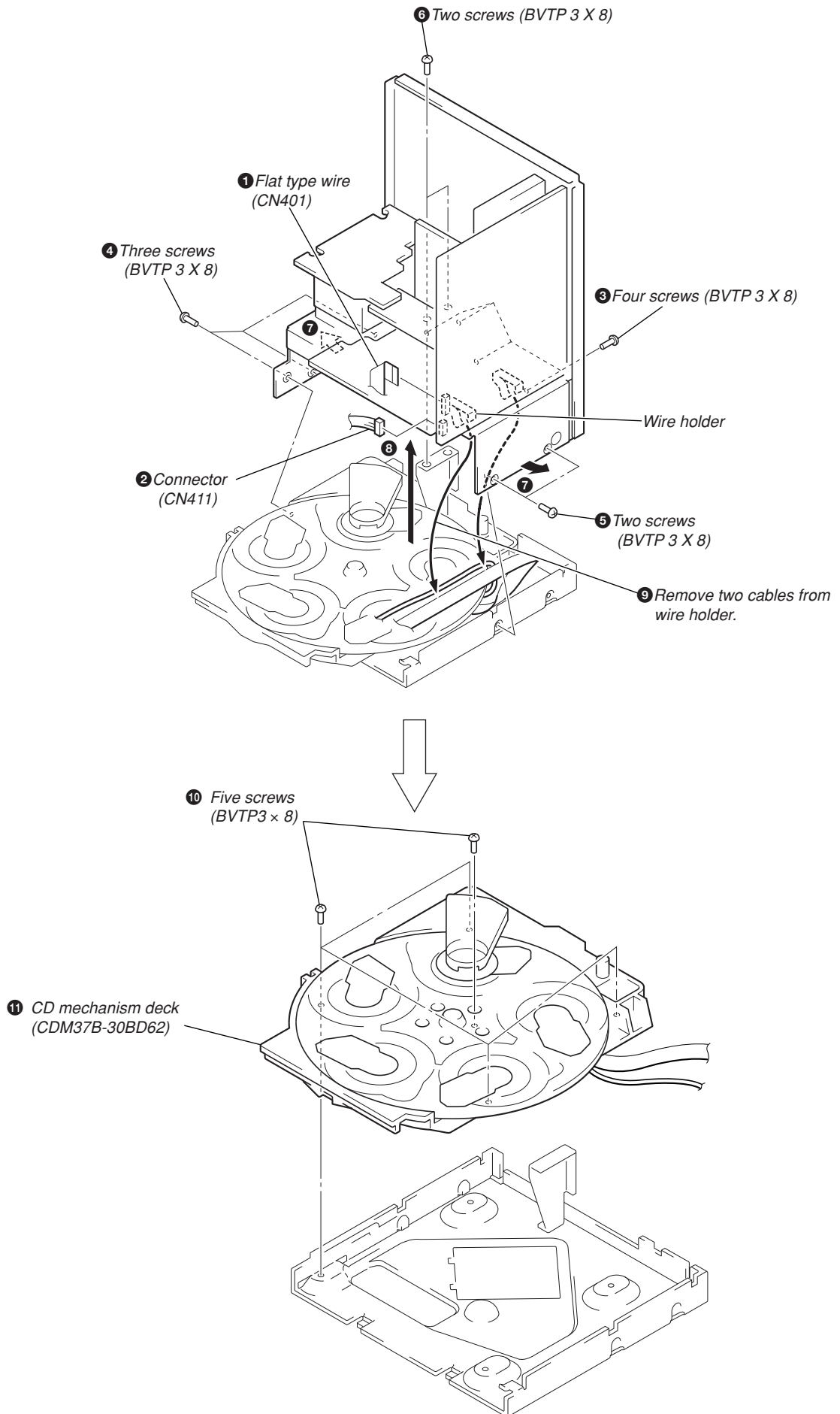
3-10. VIDEO BOARD



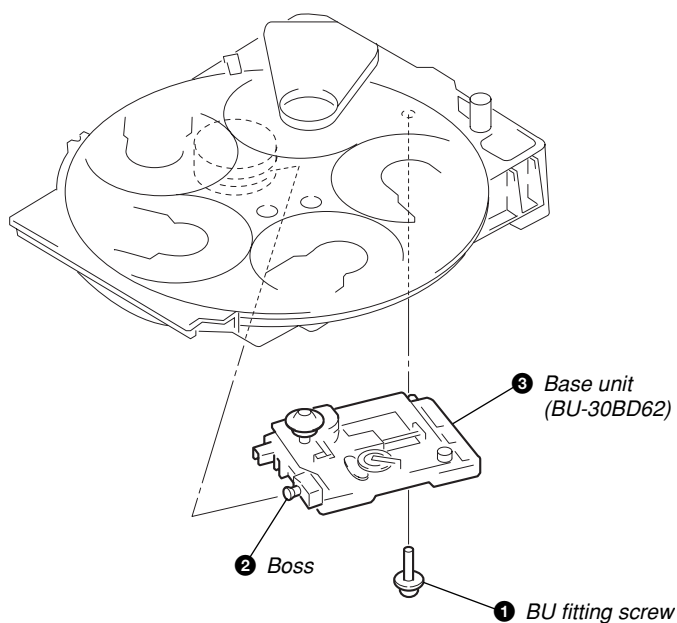
3-11. BACK PANEL, DC FAN, MAIN BOARD, PROLOGIC BOARD



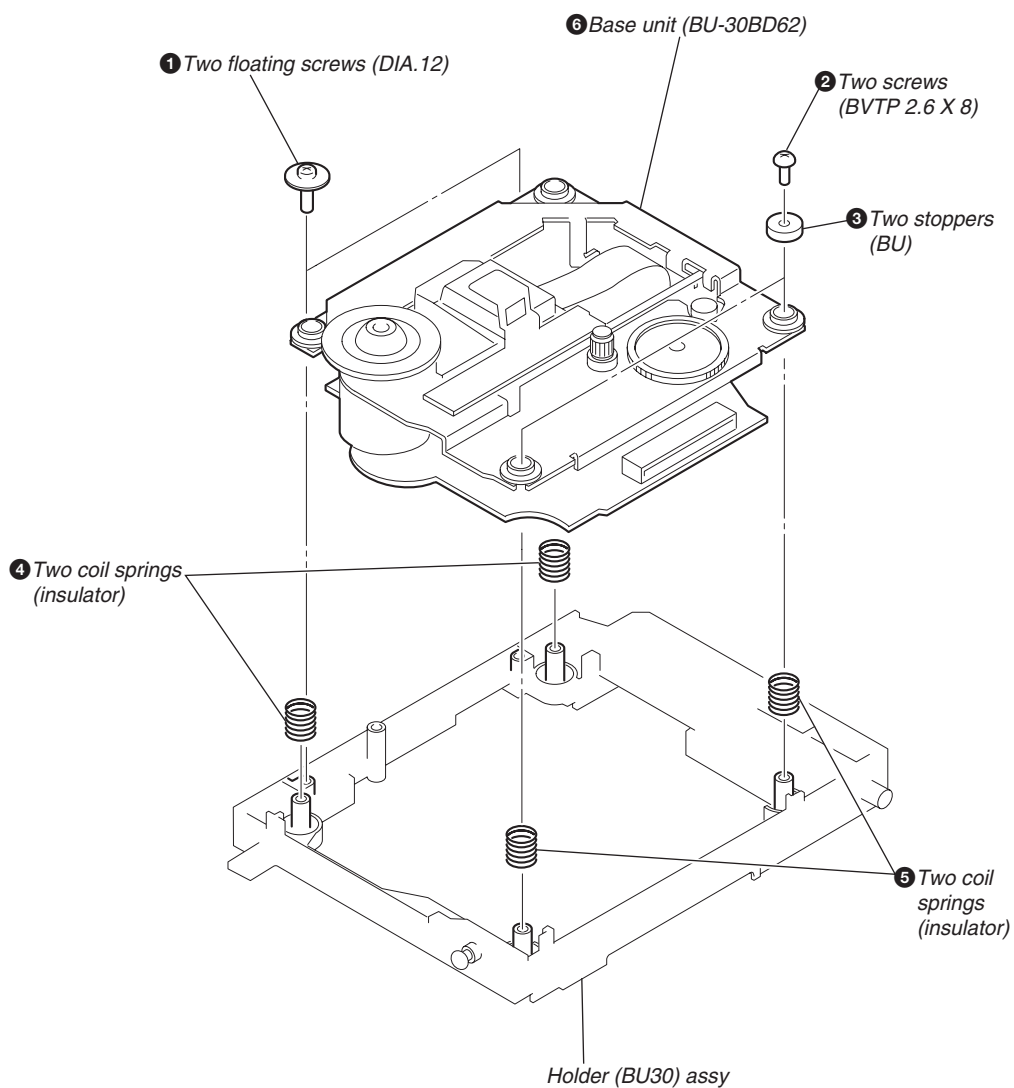
3-12. CD MECHANISM DECK (CDM37B-30BD62)



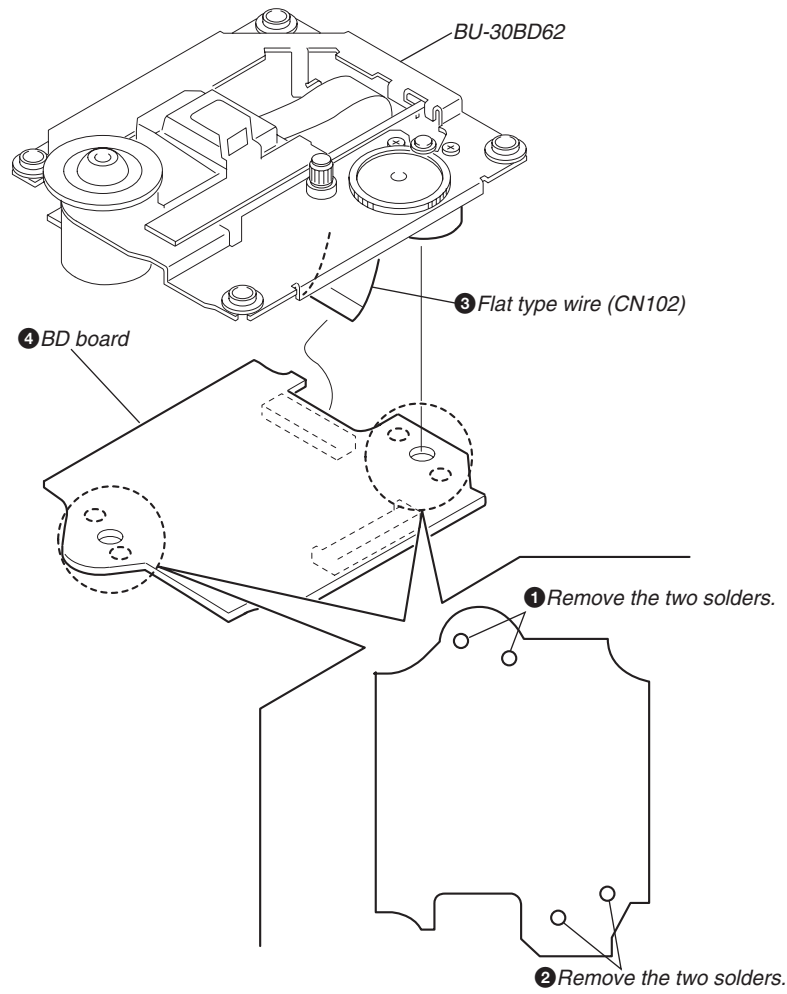
3-13. BASE UNIT-1 (BU-30BD62)



3-14. BASE UNIT-2 (BU-30BD62)

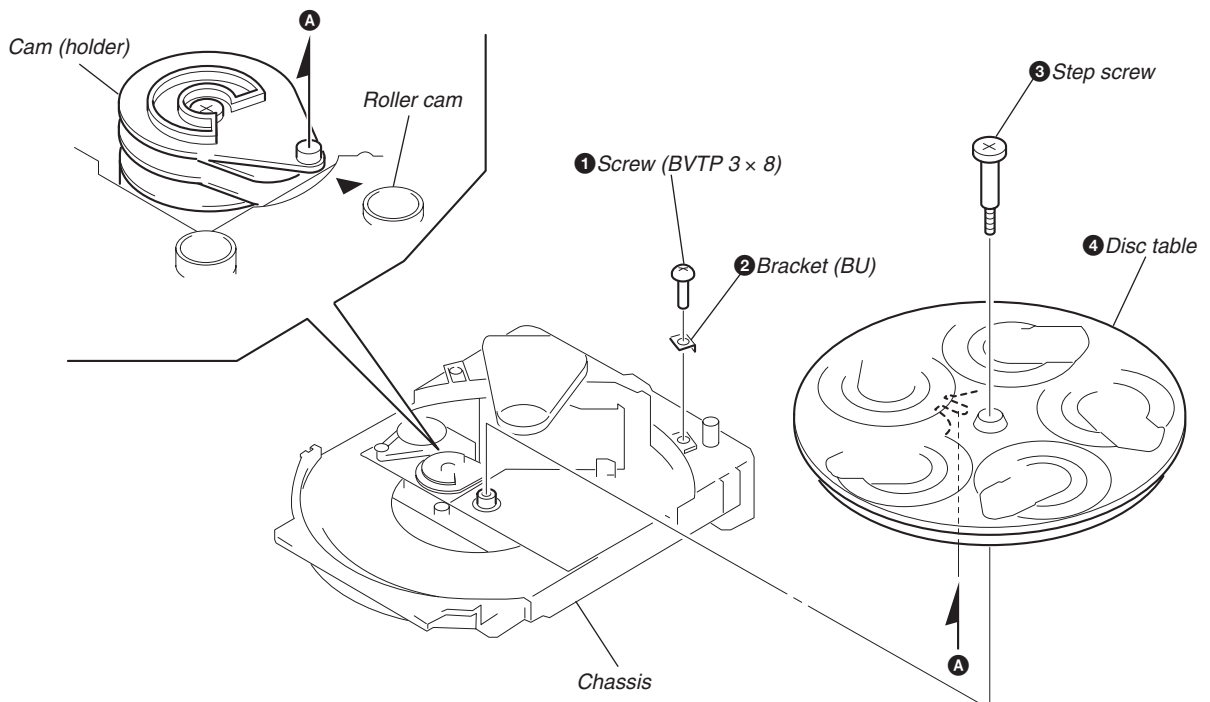


3-15. BD BOARD



3-16. DISC TABLE

Note: When the disc table is installed, adjust the positions of roller cam and mark ► as shown in the figure, then set to the groove of disc table.



SECTION 4 TEST MODE

[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:

- Turn the power ON or set to the DEMO mode.
- Press three buttons of [■ (TC-B)], [TUNER ENTER], and [I/⏻] simultaneously.
- The set is reset, and displays "COLD RESET", then becomes DEMO mode.

[Change-over the AM Tuning Interval]

- The AM tuning interval can be changed over 9 kHz or 10 kHz.

Procedure:

- Press the [I/⏻] button to turn the power ON.
- Select the function "TUNER", and press the [TUNER/BAND] button to select the BAND "AM".
- Press the [I/⏻] button to turn the power OFF.
- Press the [ENTER] and [I/⏻] buttons simultaneously, and the display on the fluorescent indicator tube changes to "AM 9 K STEP" or "AM 10 K STEP", and thus the tuning interval is changed over.

[CD Ship Mode] (No memory clear)

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

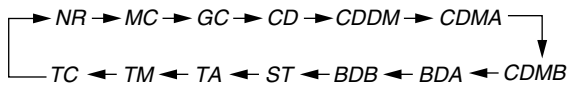
Procedure:

- Press the [I/⏻] button to turn the power ON.
- Press the [EDIT] and [I/⏻] buttons simultaneously.
- A message "LOCK" is displayed on the fluorescent indicator tube, and the CD delivery mode is set.

[LED and Fluorescent Indicator Tube All Lit, Key Check Mode]

Procedure:

- Press three buttons of [■ (TC-B)], [TUNER ENTER], and [DISC 2] simultaneously.
- LEDs and fluorescent indicator tube are all turned on.
- Press the [DISC 1] button, the MODE and DESTINATION are displayed fluorescent indicator tube.
- Each time the [DISC 1] button is pressed, the MC/GC category version is displayed in the following order.



- Press the [DISC 2] button, and the key check mode is activated.
- In the key check mode, the fluorescent indicator tube displays "K 0 J0 V0". Each time a button is pressed, "K" value increases to "K69" call the button is pressed. However, once a button is pressed, it is no longer taken into account. "V" value increases like 1, 2, 3 ... if turn the [VOLUME] dial clockwise ("+" direction), or it decreases like 0, 9, 8 ... if turn the VOLUME dial counterclockwise ("- " direction).
- To release from this mode, press three buttons in the same manner as step 1, or disconnect the power cord.

[Sled Servo Mode] (CD service mode)

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

Procedure:

- Select the function "CD".
- Press three buttons [■ (TC-B)], [TUNER ENTER], and [DISC 5] simultaneously.
- The Sled Servo mode is selected, if "CD" is blanking on the fluorescent indicator tube.
- With the CD in stop status, press [▶▶] button in CD section to move the pick-up to outside track, or [◀◀] button to inside track.
- To exit from this mode, press [I/⏻] button turn to the power OFF.

Note:

- Always move the 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 FUNCTION Name]

- The FUNCTION name of external input terminal can be changed over to VIDEO or MD. With the FUNCTION selected to "MD", about 5dB mute is applied to the input gain.

Procedure:

- Press [I/⏻] button to turn the power OFF.
- Press [I/⏻] button together with [FUNCTION] button for several seconds, and the power is turned on, the display of fluorescent indicator tube changes to "MD" or "VIDEO" instantaneously, and thus the FUNCTION is changed over.

[Aging Mode]

This mode can be used for operation check of tape deck section. Tape deck section work in parallel.

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

Procedure:

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

1. Display at the Aging Mode

- Display operating state of tape deck section alternately.
- If an error occurred, stop display.

[Changeover the color system]

The color system can be changed over PAL, NTSC or AUTO.

Procedure:

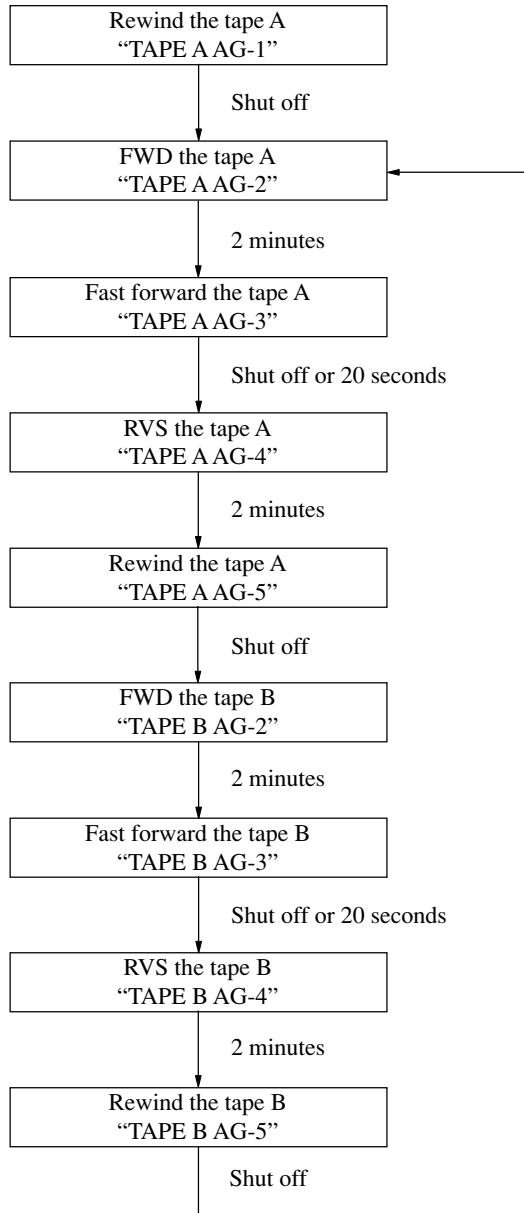
The color system can be changed over PAL, NTSC or AUTO by pressing [I/⏻] button while pressing followings and indication on display changes to "COLOR PAL", "COLOR NTSC" or "COLOR AUTO".

PAL	:	[REGGAE]	+	[I/⏻]
NTSC	:	[MOVIE]	+	[I/⏻]
AUTO	:	[TANGO]	+	[I/⏻]

2. Tape Deck Section

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

Aging mode sequence (Tape deck section):

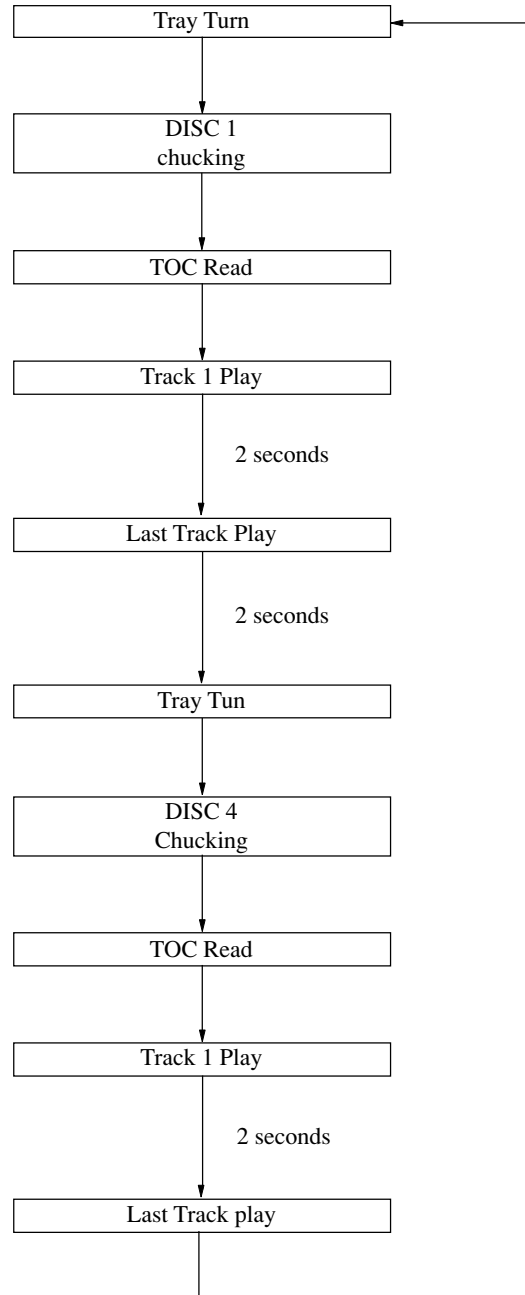


Note: “TAPE * AG- * ” is display of each step.

3. CD Section

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

Aging mode sequence (CD section):



[VACS ON/OFF]

- The volume control by VACS is turned ON/OFF.

Procedure:

1. Press the button to turn the power ON.
2. Press the and buttons simultaneously.
3. The reaction display appears when switching ON/OFF.

SECTION 5 MECHANICAL ADJUSTMENTS

Precaution

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






Torque Measurement

Mode	Torque Meter	Meter Reading
FWD	CQ-102C	2.9~6.9 mN•m (30 to 70 g•cm) (0.42 – 0.97 oz•inch)
FWD back tension		0.19~0.59 mN•m (2 to 6 g•cm) (0.03 – 0.08 oz•inch)
FF/REW	CQ-201B	7.8~16.7 mN•m (80 to 170 g•cm) (1.11 – 2.36 oz • inch)

SECTION 6 ELECTRICAL ADJUSTMENTS

DECK SECTION 0 dB = 0.775 V

Precaution

1. Demagnetize the record/playback head with a head demagnetizer.
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjust.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
5. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
6. The adjustments should be performed for both L-CH and R-CH.
7. Switches and controls should be set as follows unless otherwise specified.
8. Set to the test mode.
 - (1) Press the  button to turn the power ON.
 - (2) Select the function "TAPE A or B".
 - (3) Press the button of , , and  simultaneously, to set the tape deck test mode and displays "TEST MODE" on the fluorescent indicator tube.
 - (4) To release from the test mode, press the  button.

• Test Tape

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

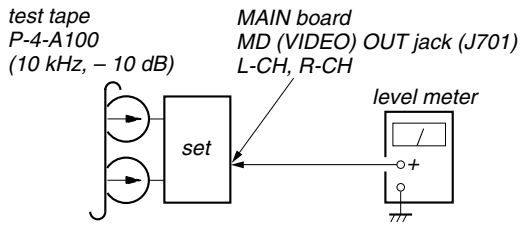
Record/Playback Head Azimuth Adjustment

DECK A **DECK B**

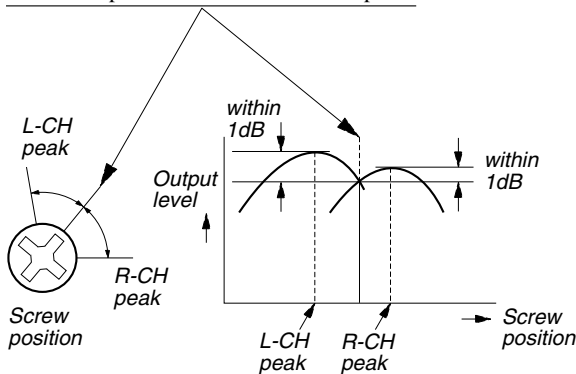
Note: Perform this adjustments for both decks

Procedure:

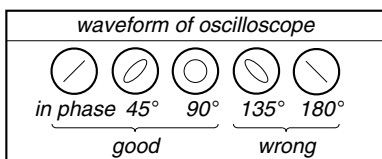
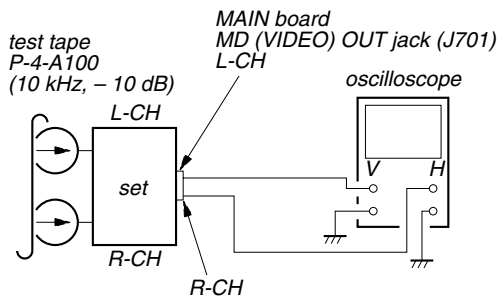
1. Mode: Playback (FWD)



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



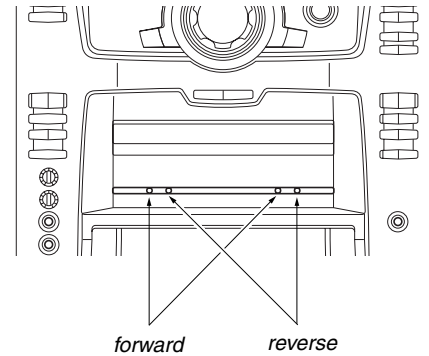
3. Mode: Playback



4. Repeat step 1 to 3 in playback (REV) mode.
5. After the adjustments, apply suitable locking compound to the parts adjusted.

Adjustment Location: Playback Head (Deck A).

Record/Playback/Erase Head (Deck B).

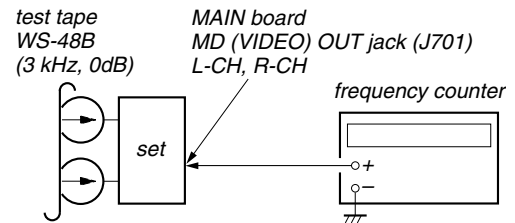


Tape Speed Adjustment

DECK B

Procedure:

Mode: Playback

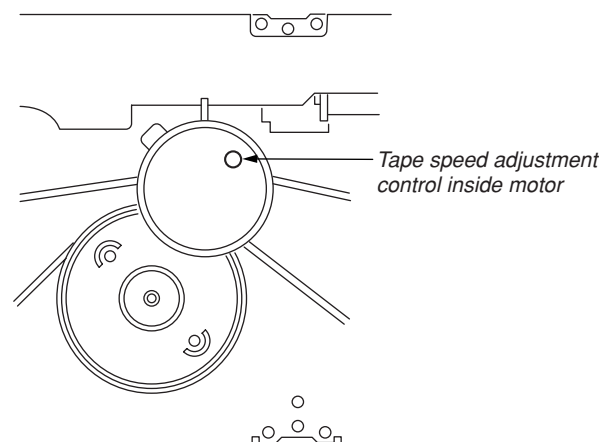


1. Insert the WS-48B into the deck B.
2. Press the button on the deck B.
3. Adjust the tape speed adjustment control inside motor so that frequency counter reads 3,000 ± 90Hz.

Sample value of wow and flutter W.RMS (JIS) less than 0.3% WS-48B

Adjustment Location:

Tape speed Adjustment

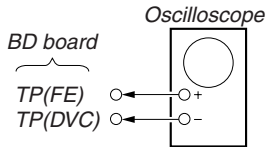


CD SECTION

Note :

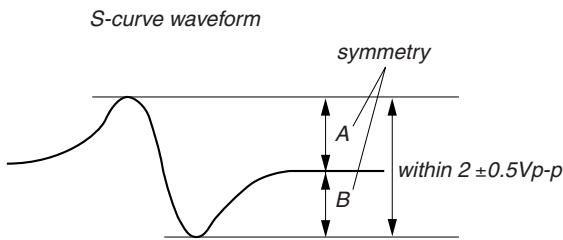
1. CD Block is basically designed to operate without adjustment. Therefore, check each item in order given.
2. Use LUV-P01 (4-999-032-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10MΩ impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

S-Curve Check



Procedure :

1. Connect oscilloscope to TP (FE).
2. Connect between TP (FE) and TP (DVC (≈ 1.65 V)) by lead wire.
3. Press the button to turn the power ON.
4. Load a disc (LUV-P01) and actuate the focus search. (In consequence of open and close the disc tray, actuate the focus search)
5. Confirm that the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 2 ± 0.5 Vp-p.

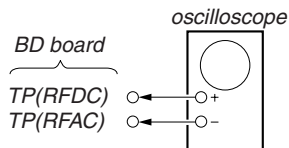


6. After check, remove the lead wire connected in step 2.

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.

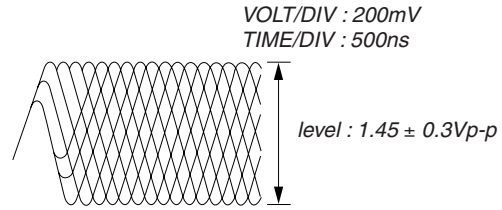
RF Level Check



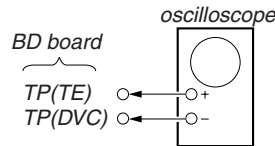
Procedure :

1. Connect oscilloscope to TP (RFDC) and TP (RFAC).
2. Press the button to turn the power ON.
3. Load a disc (LUV-P01) and playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

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

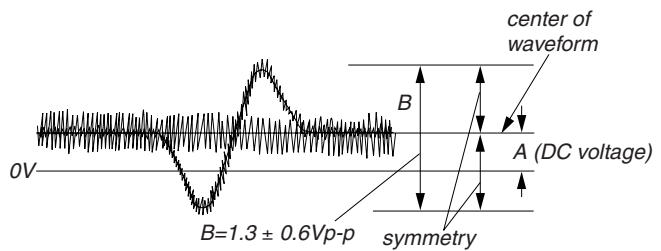


E-F Balance (1 Track jump) Check



Procedure:

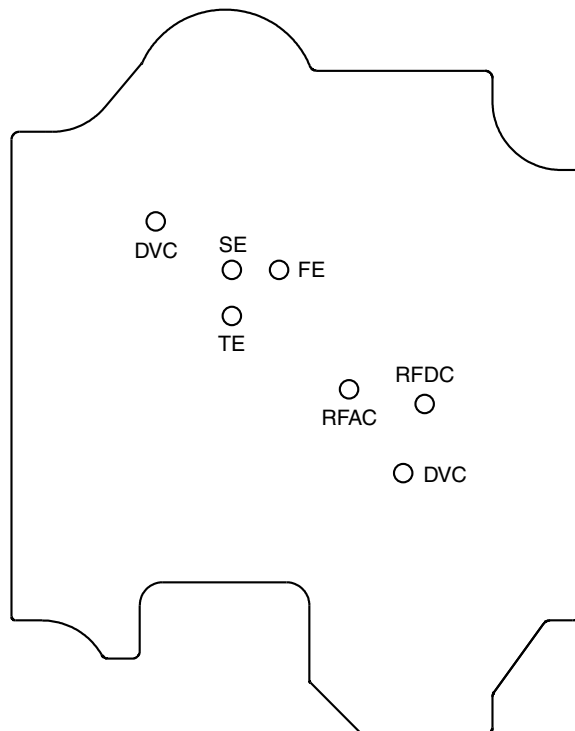
1. Connect oscilloscope to TP (TE) and TP (DVC) board.
2. Press the button to turn the power ON.
3. Load a disc (LUV-P01) and playback the number nine track.
4. Press the button. (Becomes the 1 track jump mode.)
5. Confirm that the level B and A (DC voltage) on the oscilloscope waveform.



Specified level: $\frac{A}{B} \times 100 = \text{less than } -22\%$

Checking Location:

[BD BOARD] (SIDE B)



VIDEO SECTION

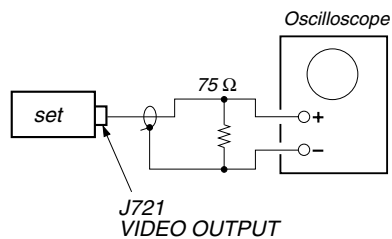
Note :

1. VIDEO board is basically designed to operate without adjustment. Therefore, check each item in order given.
2. Use HLV-402 (8-909-870-00) 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.

Video Level Check (VIDEO BOARD)

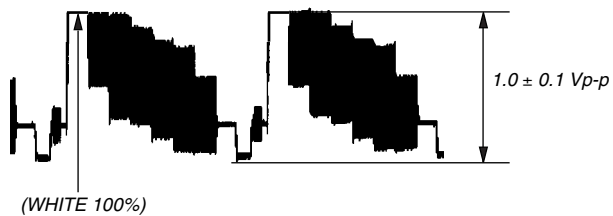
Purpose

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



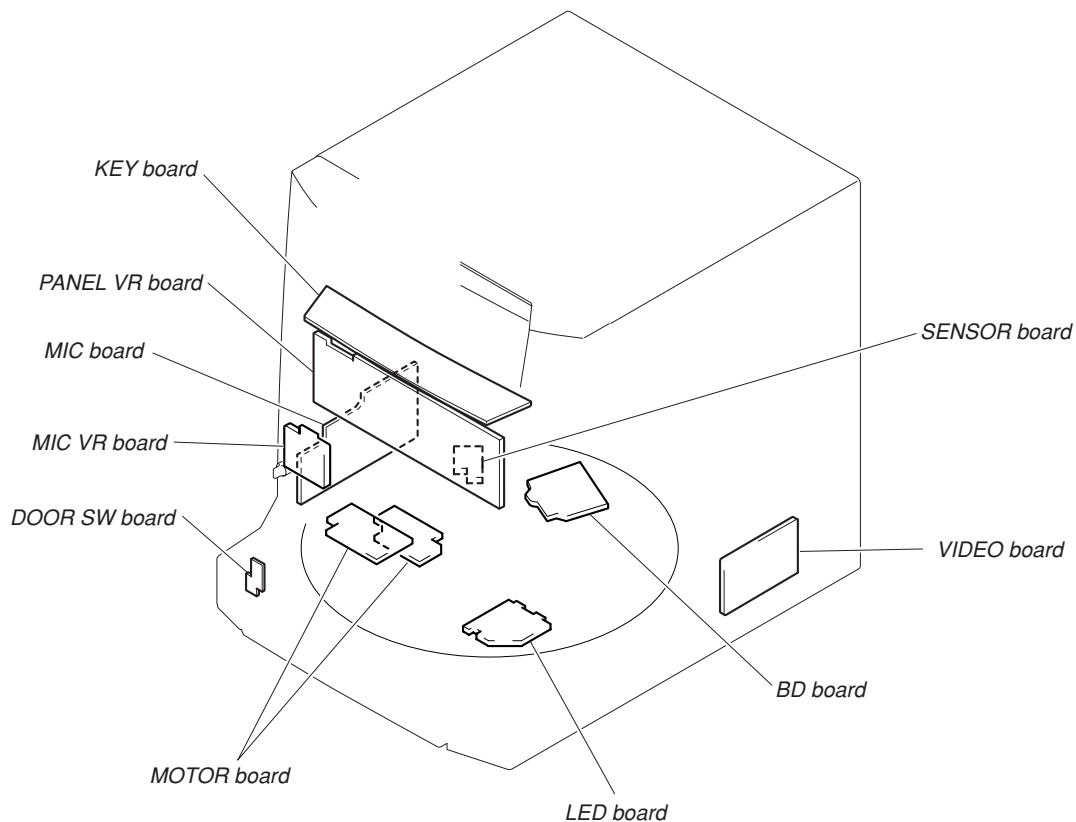
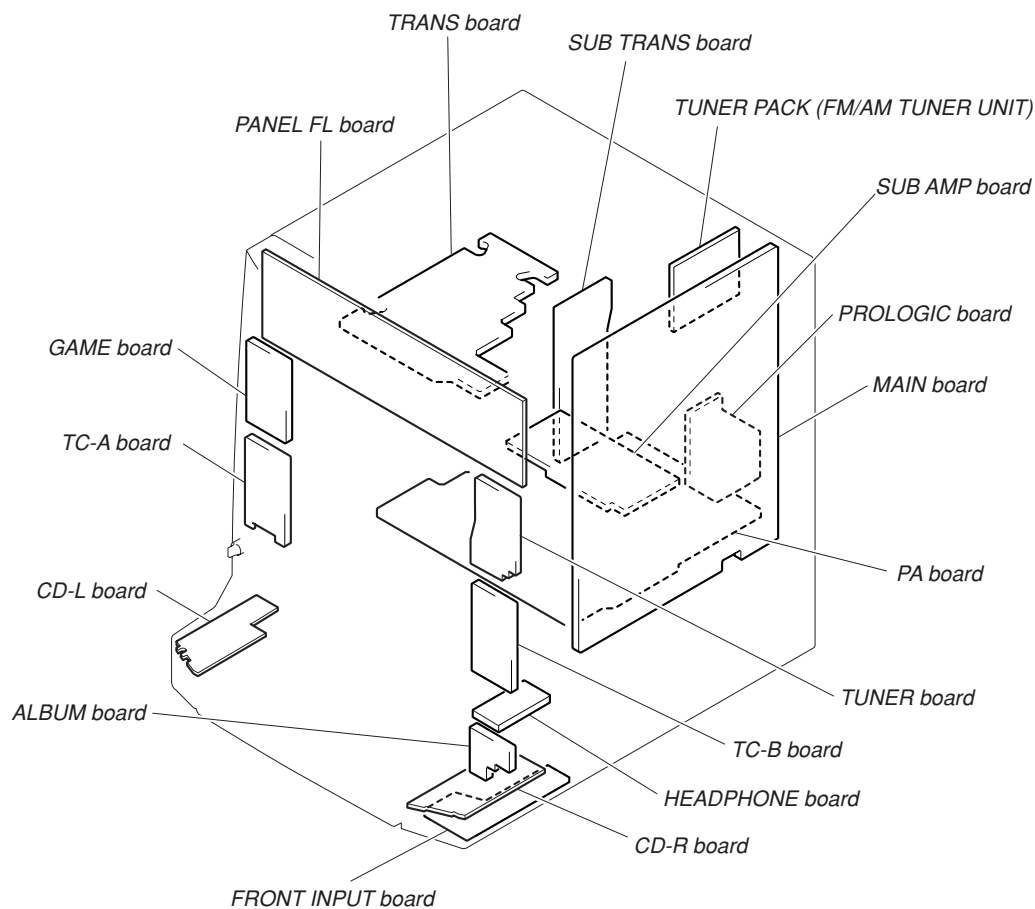
Procedure:

1. Connect oscilloscope to VIDEO output.
2. Load a disc HLV-402 (8-909-870-00) playback.
3. Check that the video level is 1.0 ± 0.1 Vp-p.



**SECTION 7
DIAGRAMS**

7-1. CIRCUIT BOARD LOCATION



Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF: μF
- 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.
- Δ : internal component.
- \square : nonflammable resistor.
- \square : fusible resistor.

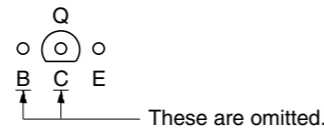
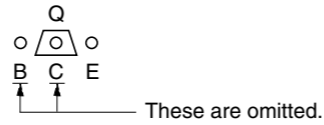
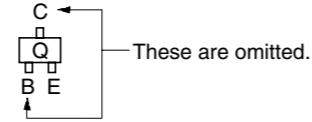
Note:

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

- \square : panel designation.
- --- : B+ Line.
- --- : B- Line.
- --- : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
- BD board section and VIDEO board section.
 - no mark: CD PLAY
 - Other board section
 - no mark: TUNER (FM/AM)
 - (): TAPE PLAY
 - < : TAPE REC
 - > : TAPE REC
 - [] : CD PLAY
- Voltages are taken with a VOM (Input impedance 10 M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 - \rightarrow : TUNER (FM/AM)
 - \rightarrow : TAPE PLAY (DECK A)
 - \rightarrow : TAPE PLAY (DECK B)
 - \rightarrow : RECORD
 - \rightarrow : CD PLAY
 - \rightarrow : MIC INPUT
 - \rightarrow : VIDEO

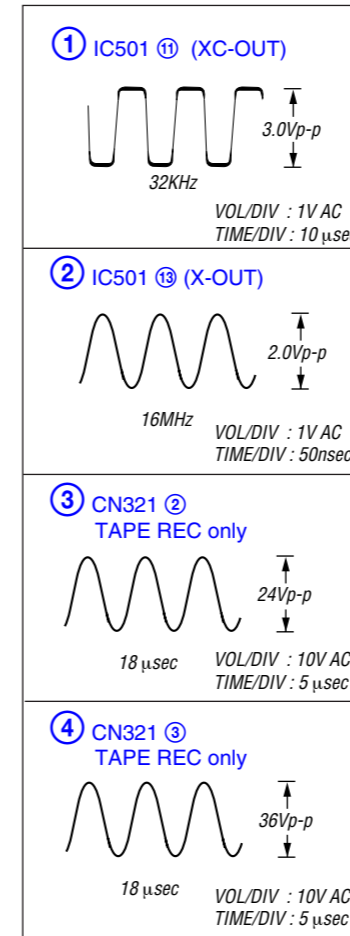
Note on Printed Wiring Boards:

- \circ : parts extracted from the component side.
- \square : Pattern from the side which enables seeing. (The other layers' Patterns are not indicated.)
- Indication of transistor.

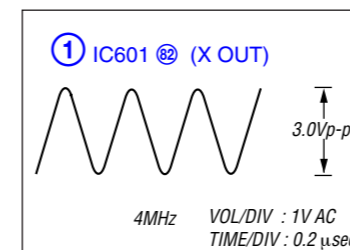


● WAVEFORMS

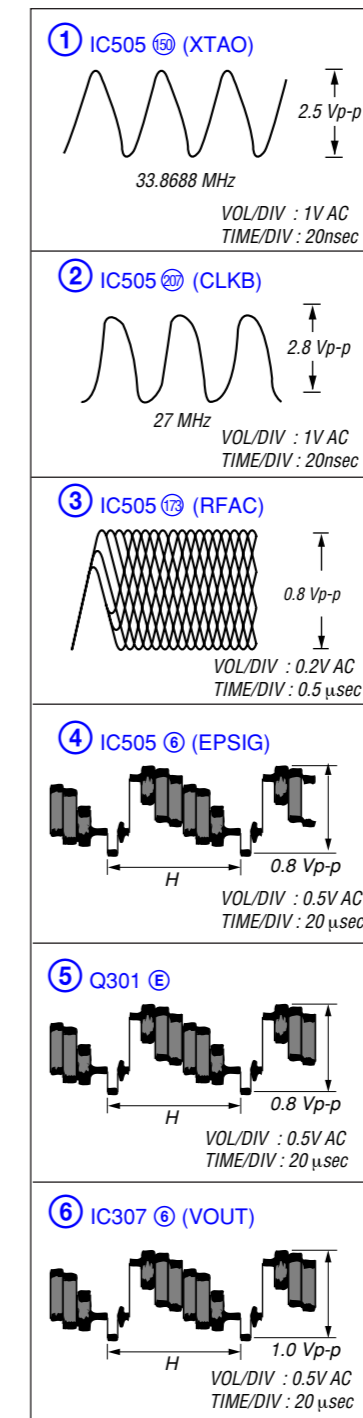
– MAIN BOARD –



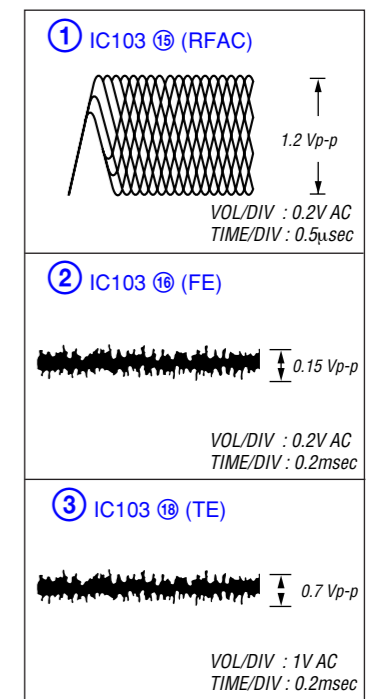
– PANEL FL BOARD –



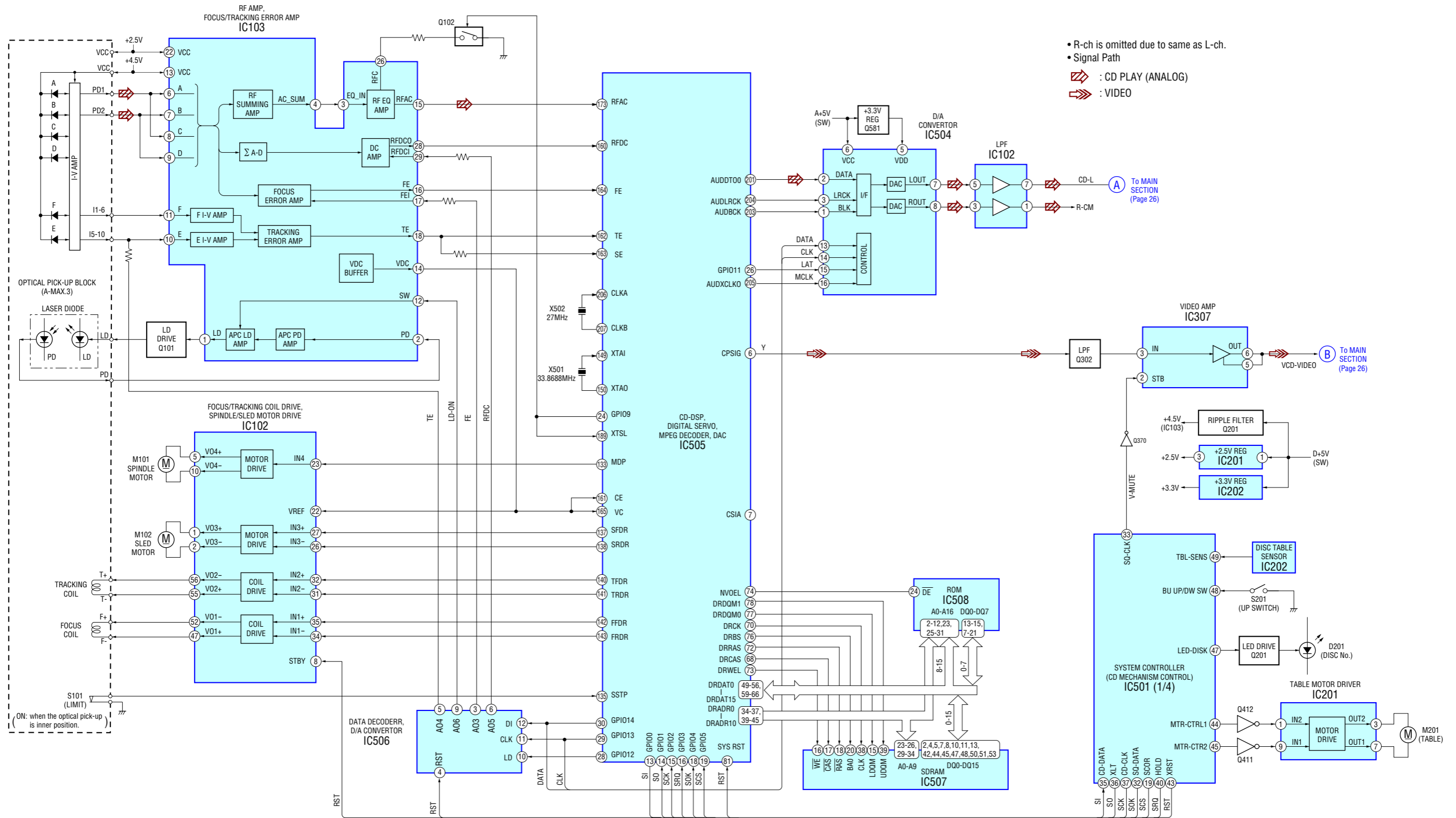
– VIDEO BOARD –



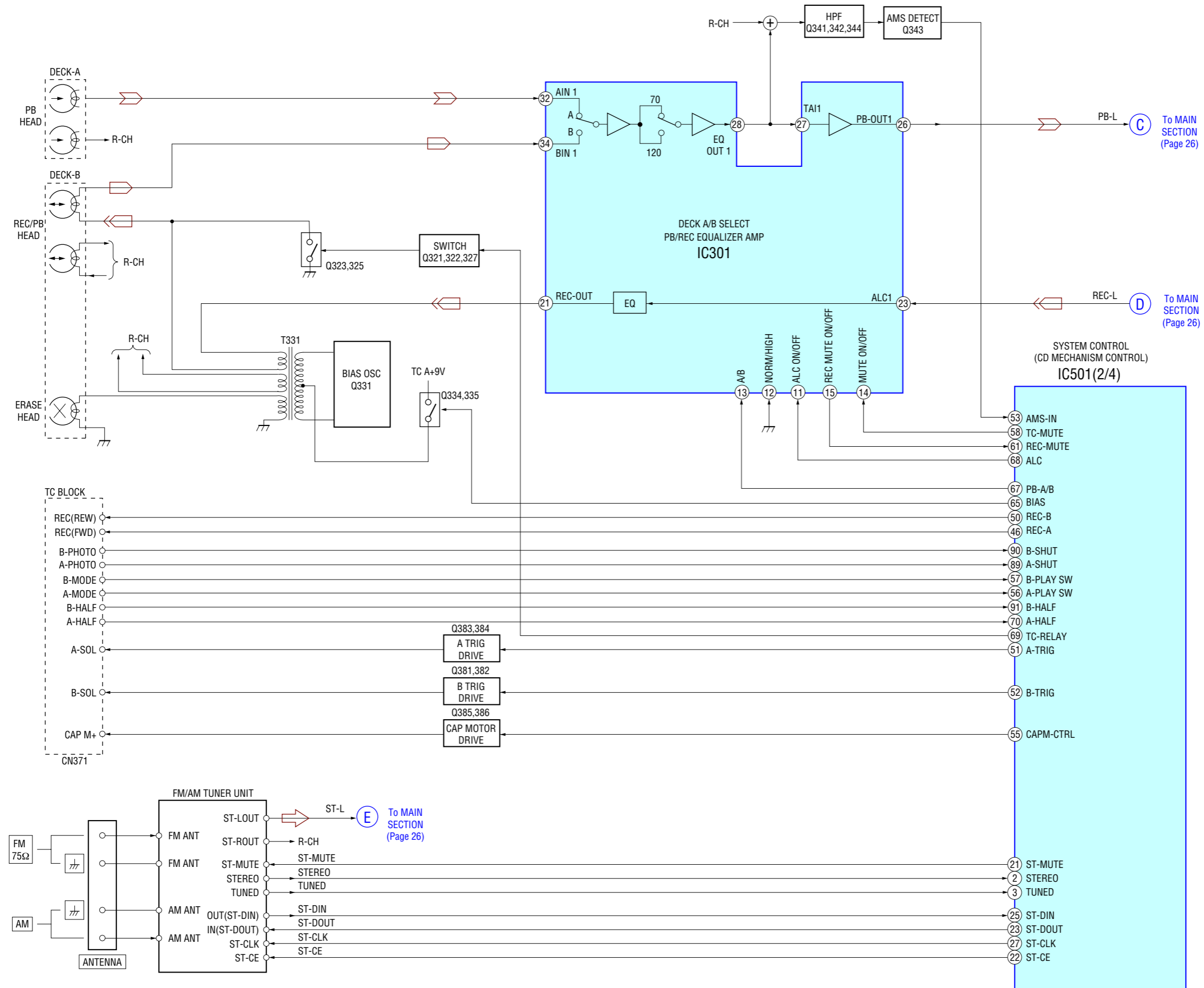
– BD BOARD –



7-2. BLOCK DIAGRAMS
- CD SERVO SECTION -

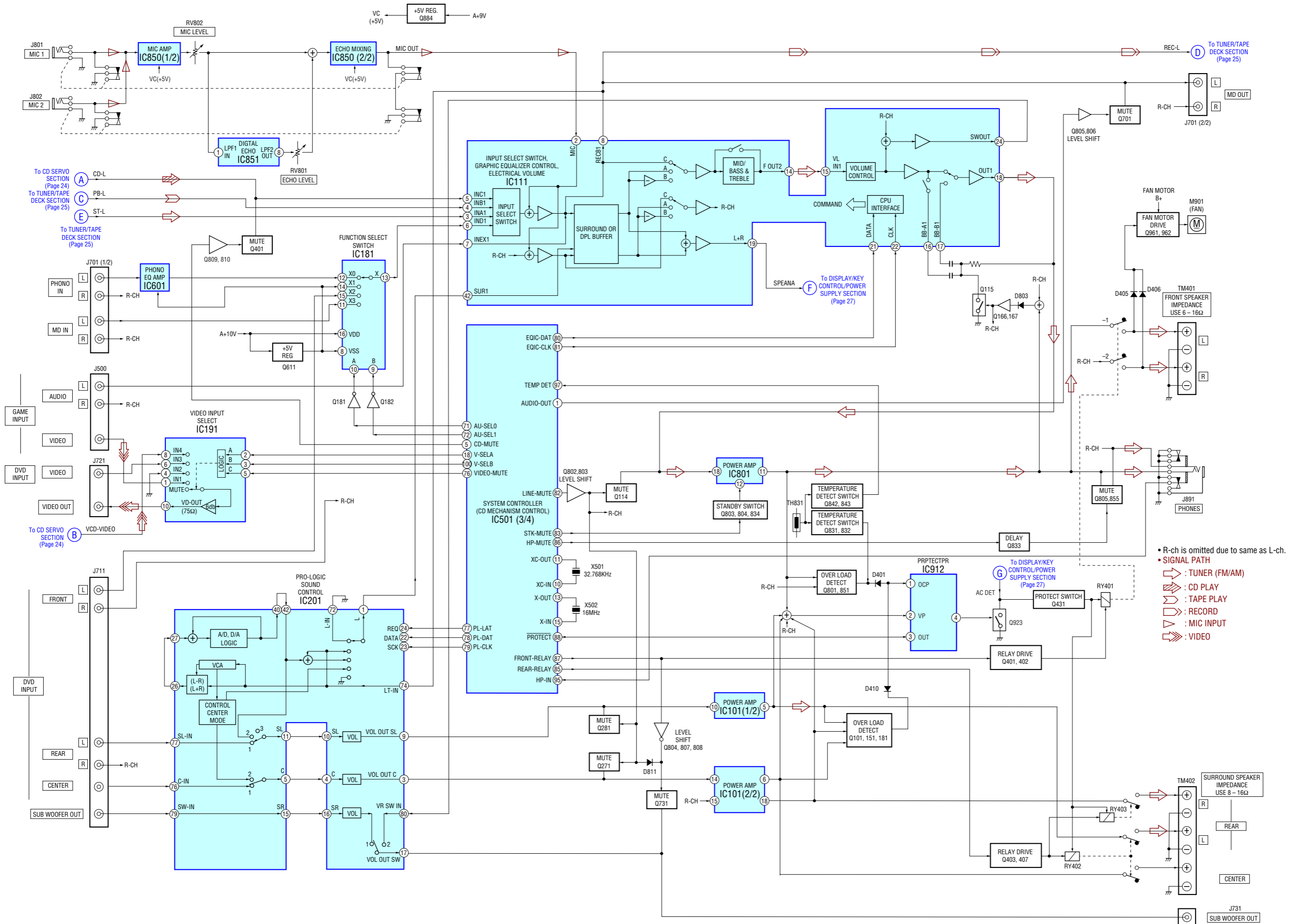


-TUNER/TAPE DECK SECTION -

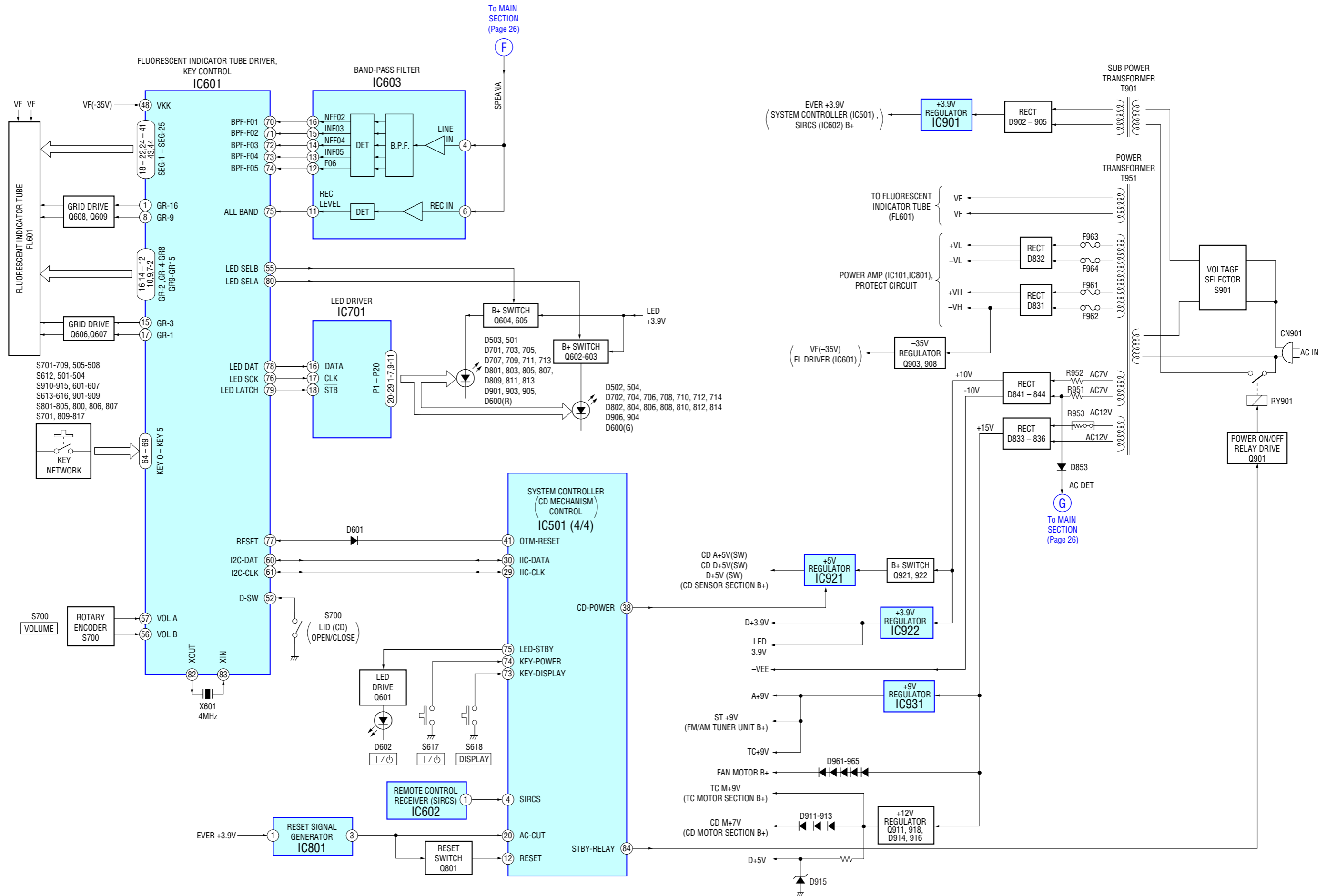


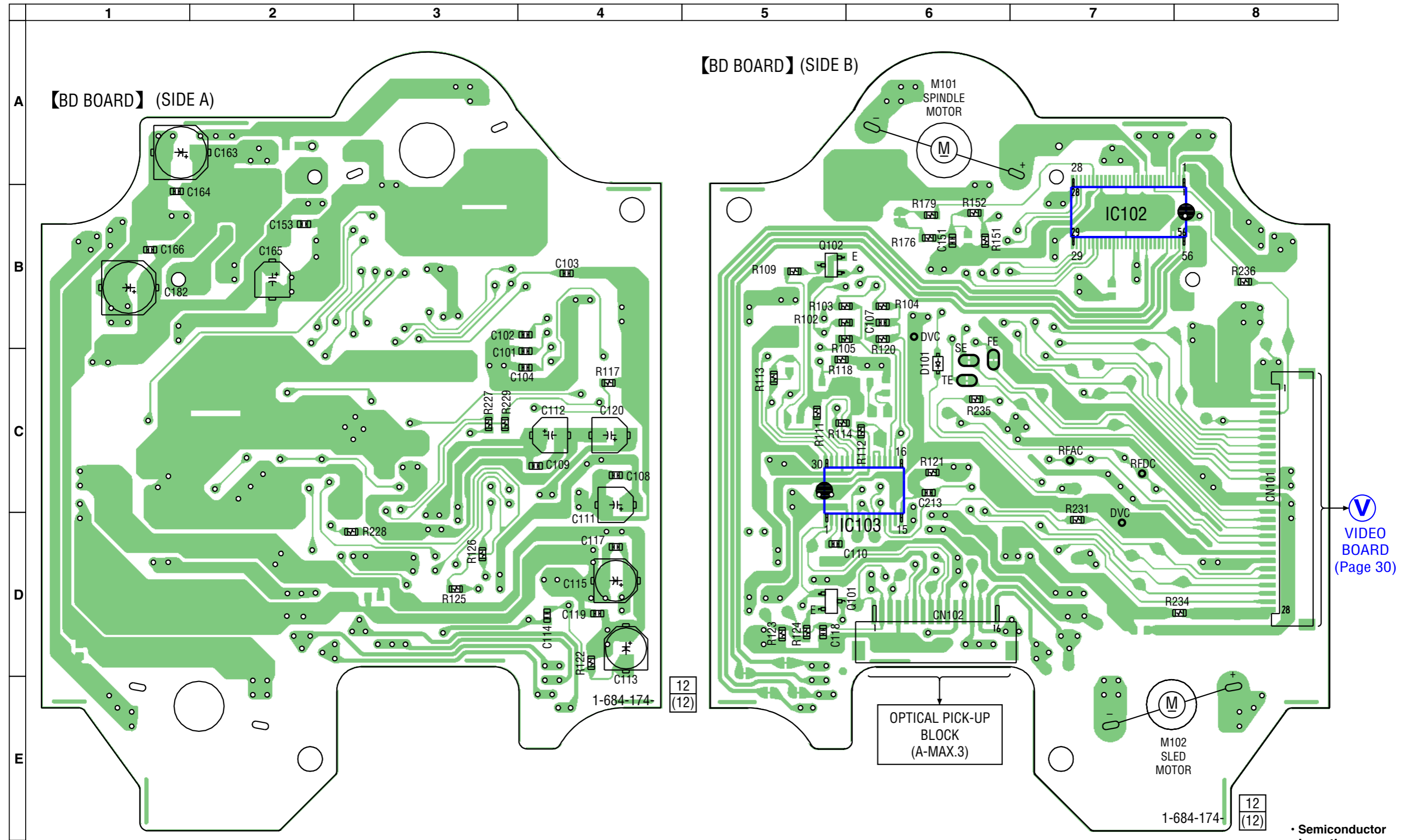
HCD-XGV11AV

- MAIN SECTION -



- DISPLAY/KEY CONTROL/POWER SUPPLY SECTION -

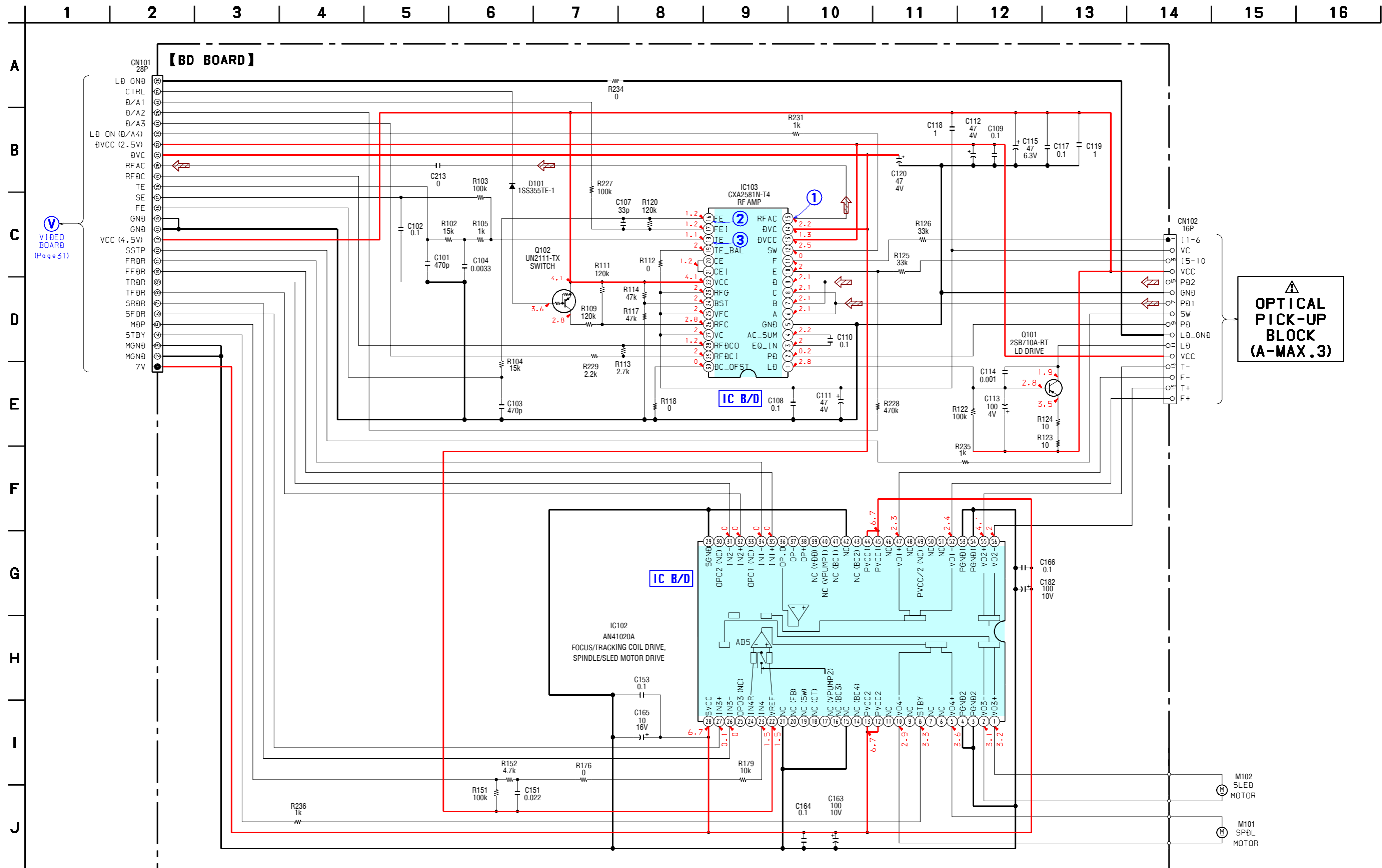


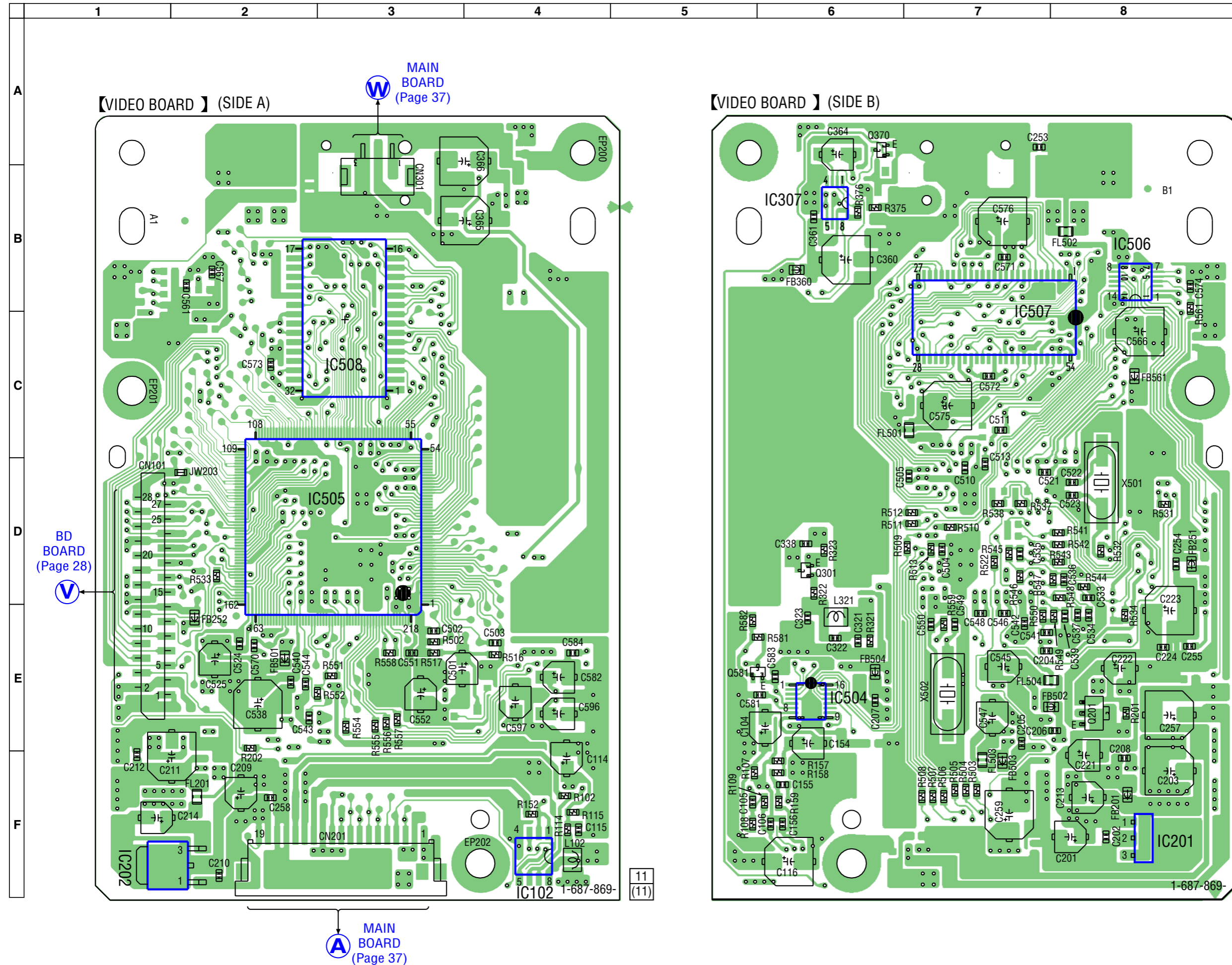


• Semiconductor Location

Ref. No.	Location
D101	C-6
IC102	B-7
IC103	C-6
Q101	D-5
Q102	B-5

7-4. SCHEMATIC DIAGRAM – BD SECTION –

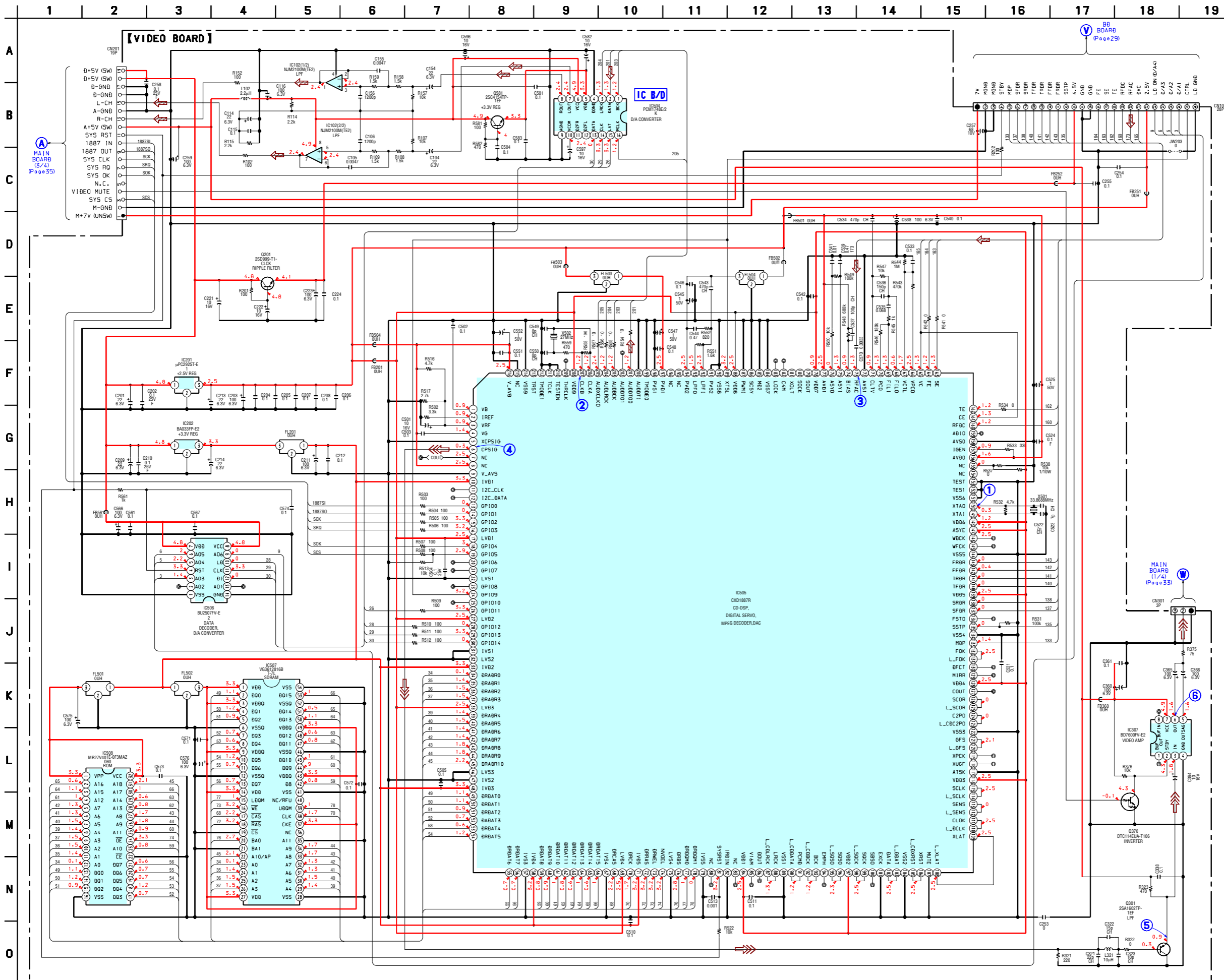




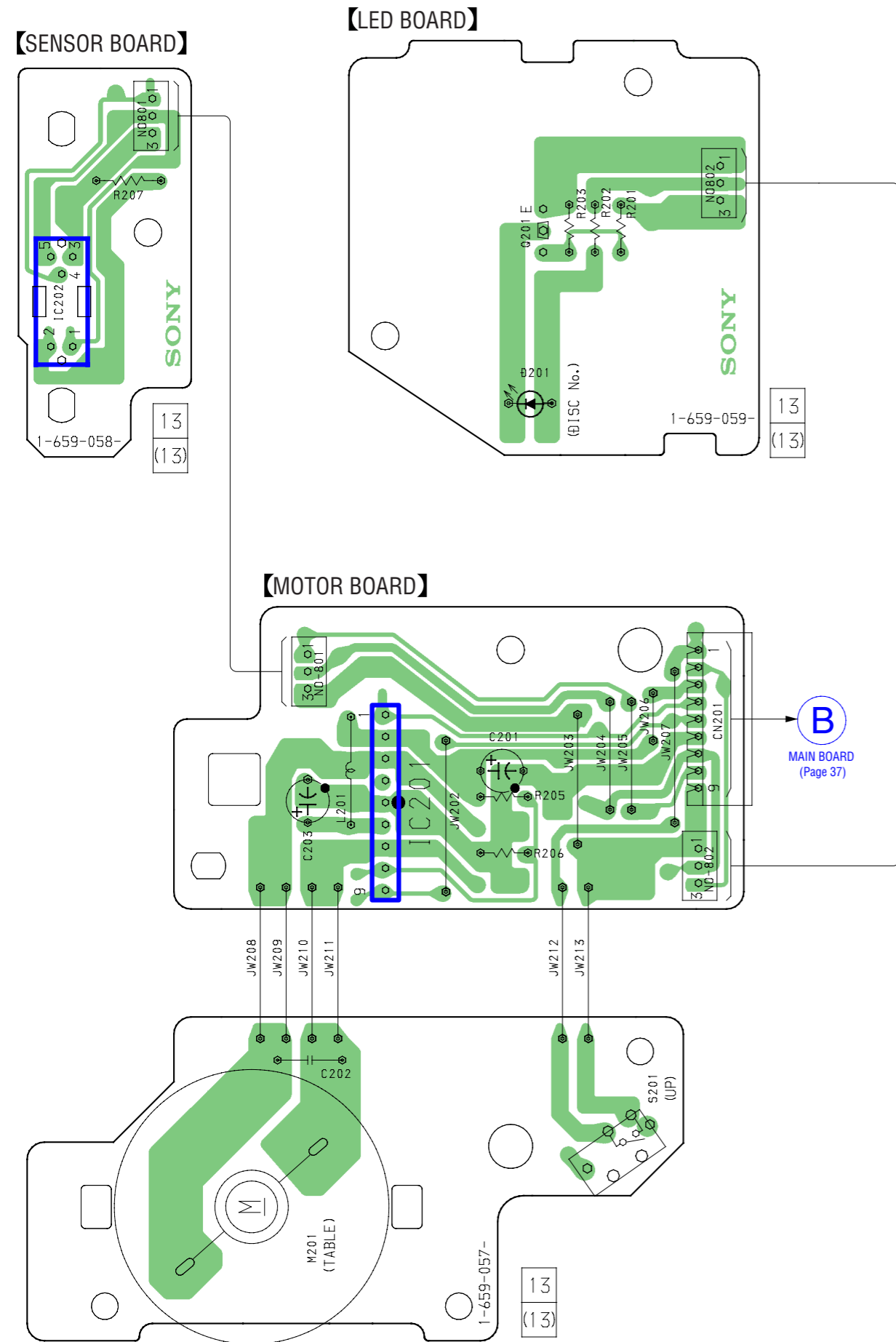
• Semiconductor Location

Ref. No.	Location
IC102	F-4
IC201	F-8
IC202	F-2
IC307	B-6
IC504	E-6
IC505	D-3
IC506	B-8
IC507	C-7
IC508	C-3
Q201	E-8
Q301	D-6
Q370	A-6
Q581	E-5

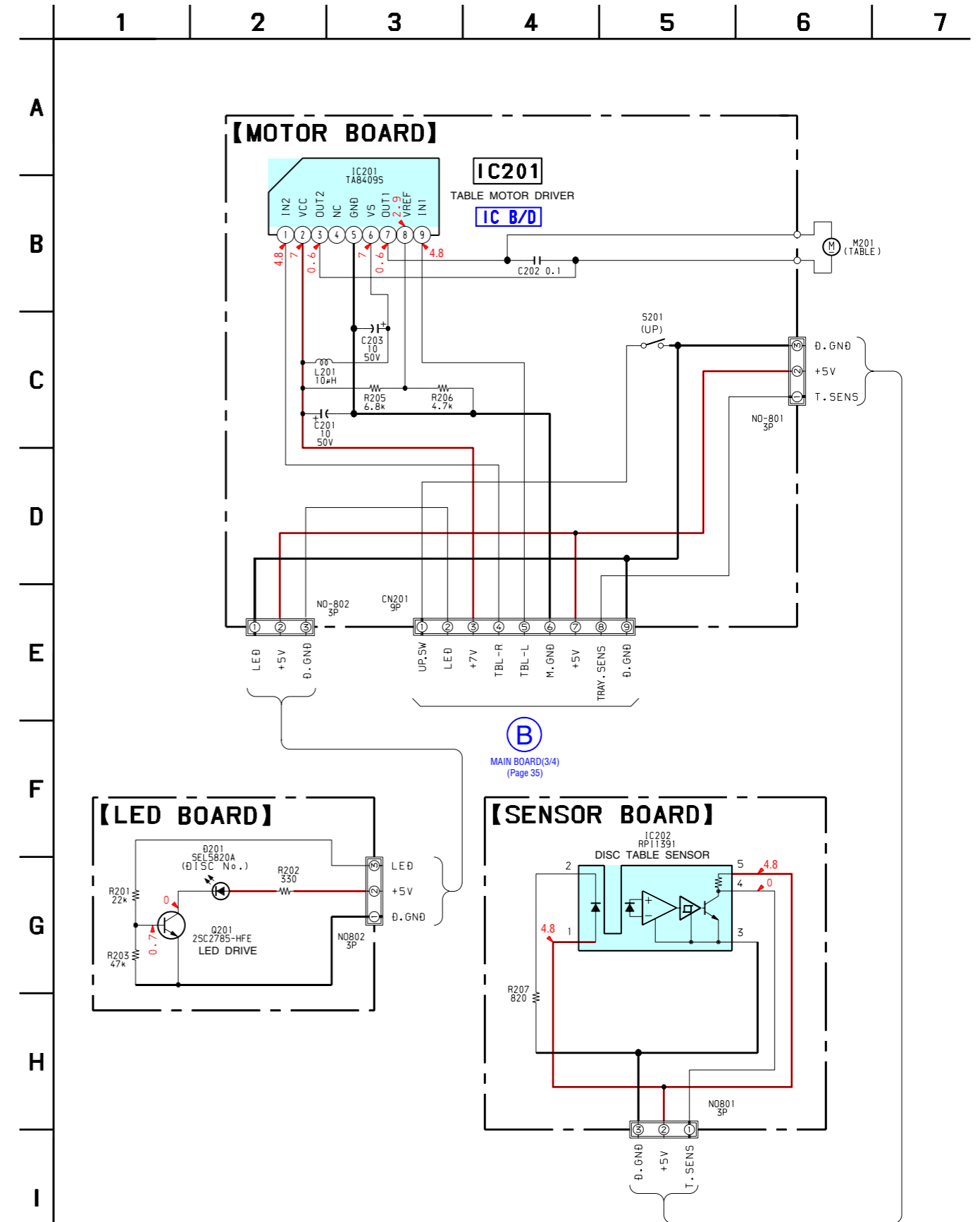
7-6. SCHEMATIC DIAGRAM – VIDEO SECTION – • See page 54 for IC Pin Function.



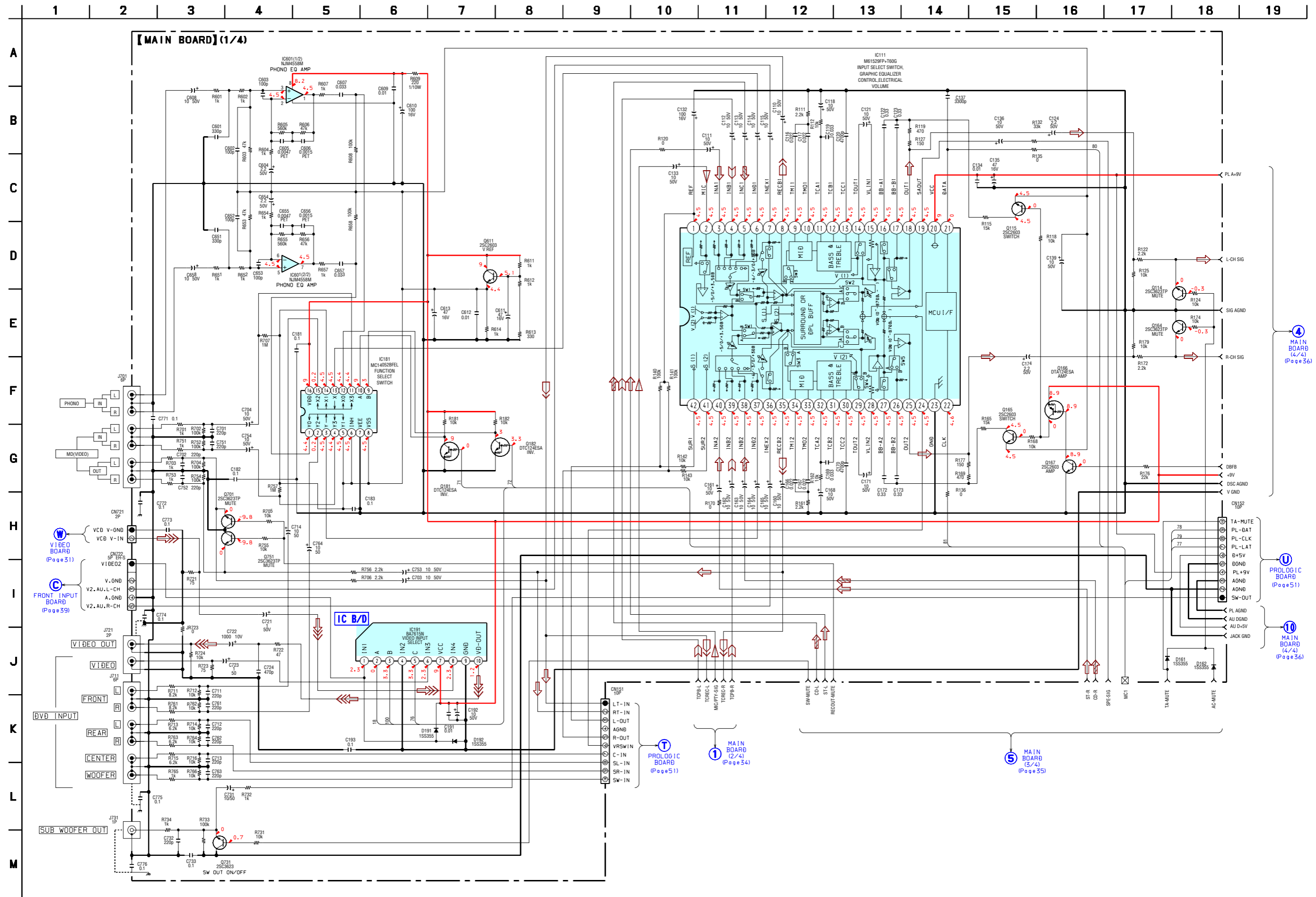
7-7. PRINTED WIRING BOARD – MOTOR LED SECTION – • See page 22 for Circuit Boards Location.



7-8. SCHEMATIC DIAGRAM – MOTOR LED SECTION –



7-9. SCHEMATIC DIAGRAM – MAIN (1/4) SECTION –



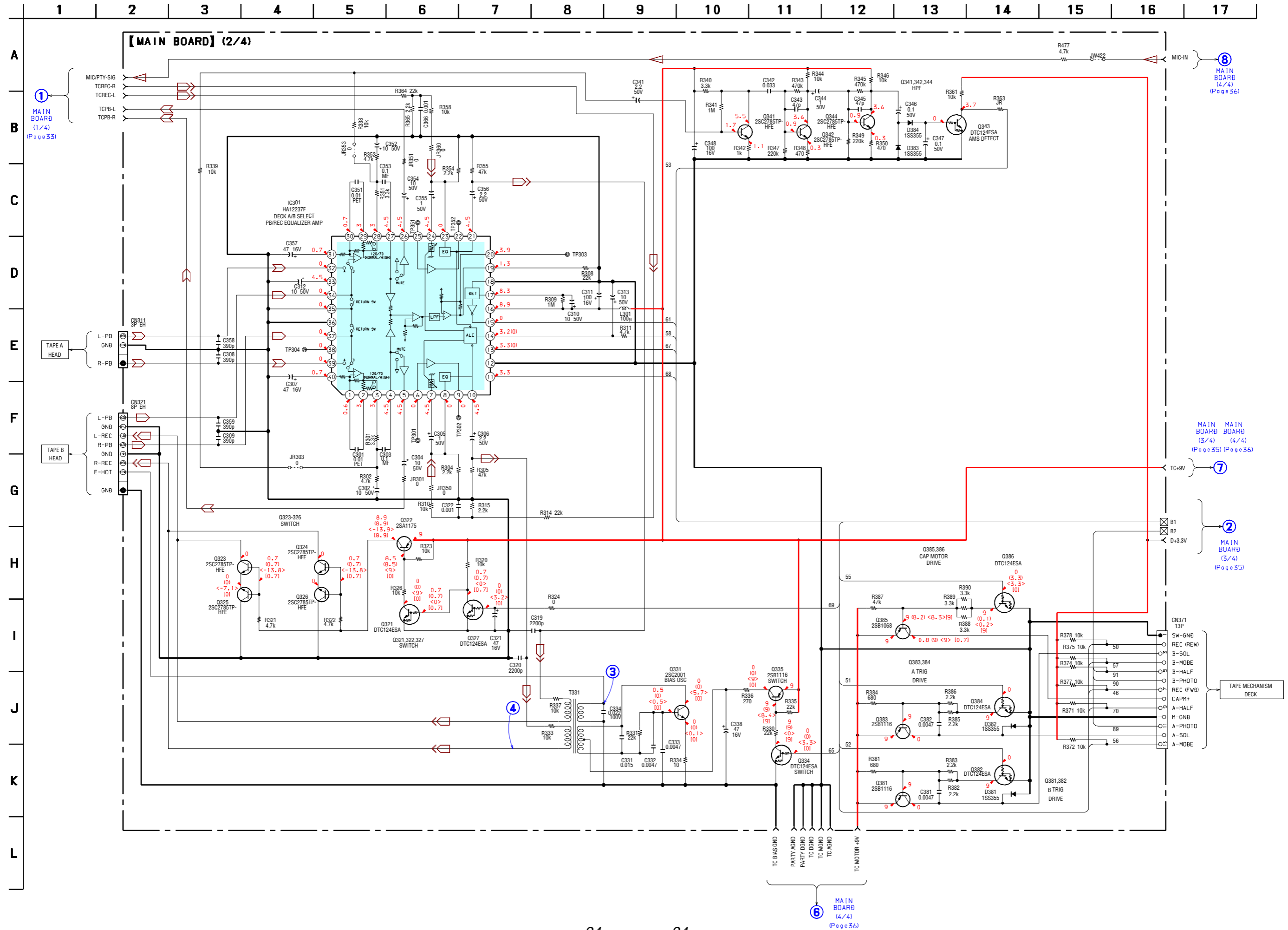
MAIN BOARD (4/4) (Page 36)

PROLOGIC BOARD (Page 51)

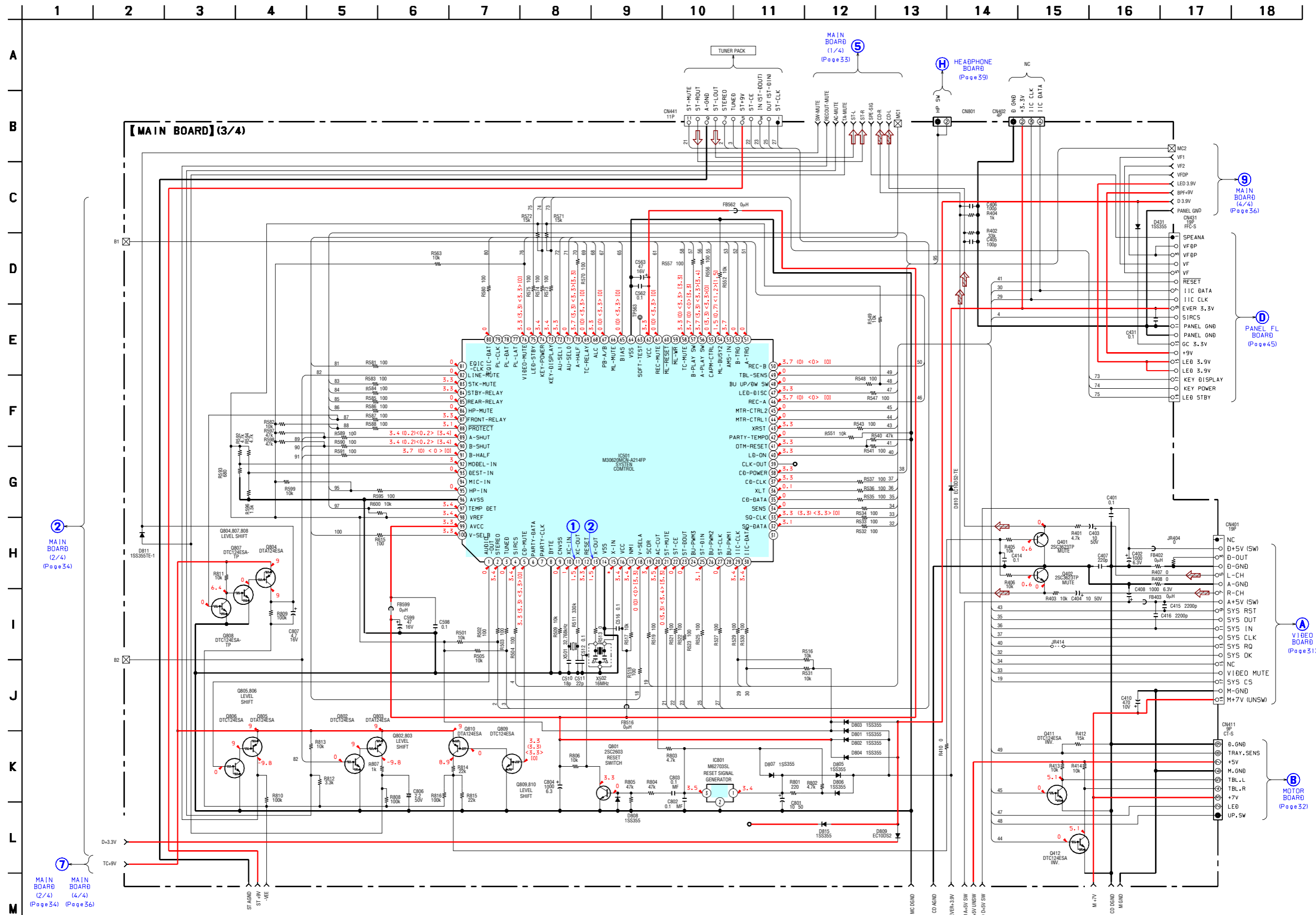
MAIN BOARD (2/4) (Page 34)

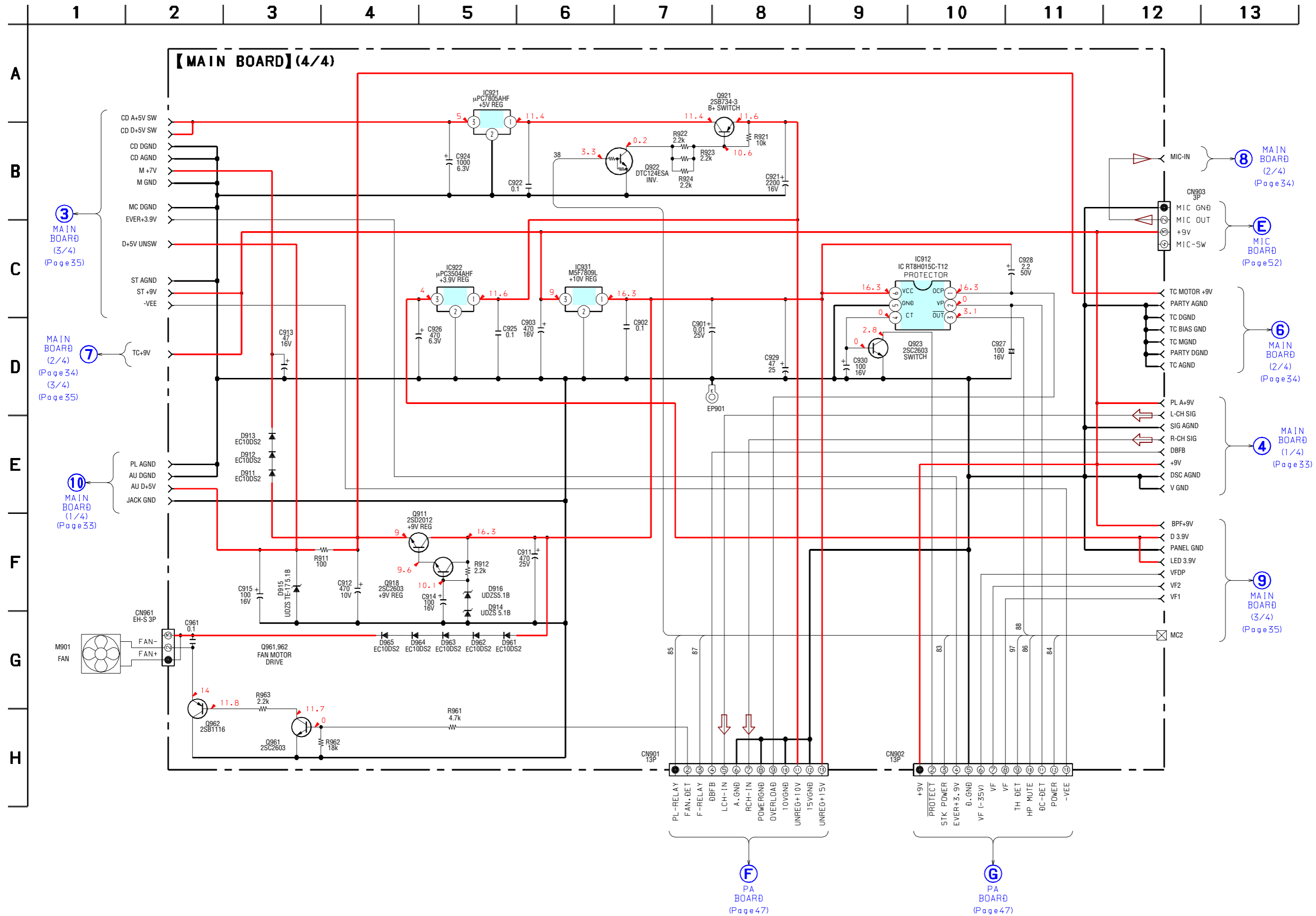
MAIN BOARD (3/4) (Page 35)

MAIN BOARD (4/4) (Page 36)

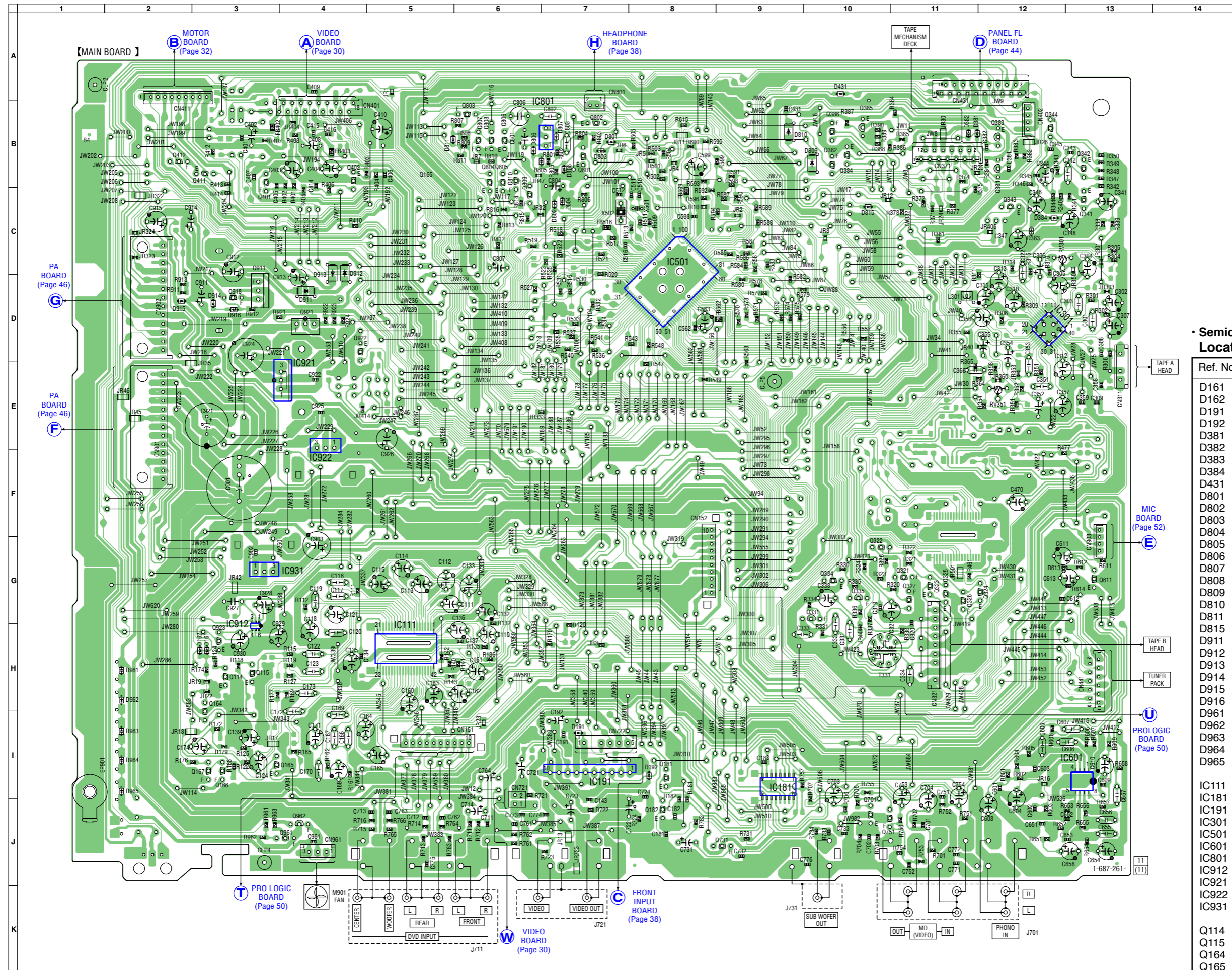


7-11. SCHEMATIC DIAGRAM – MAIN (3/4) SECTION – • See page 57 for IC Pin Function.



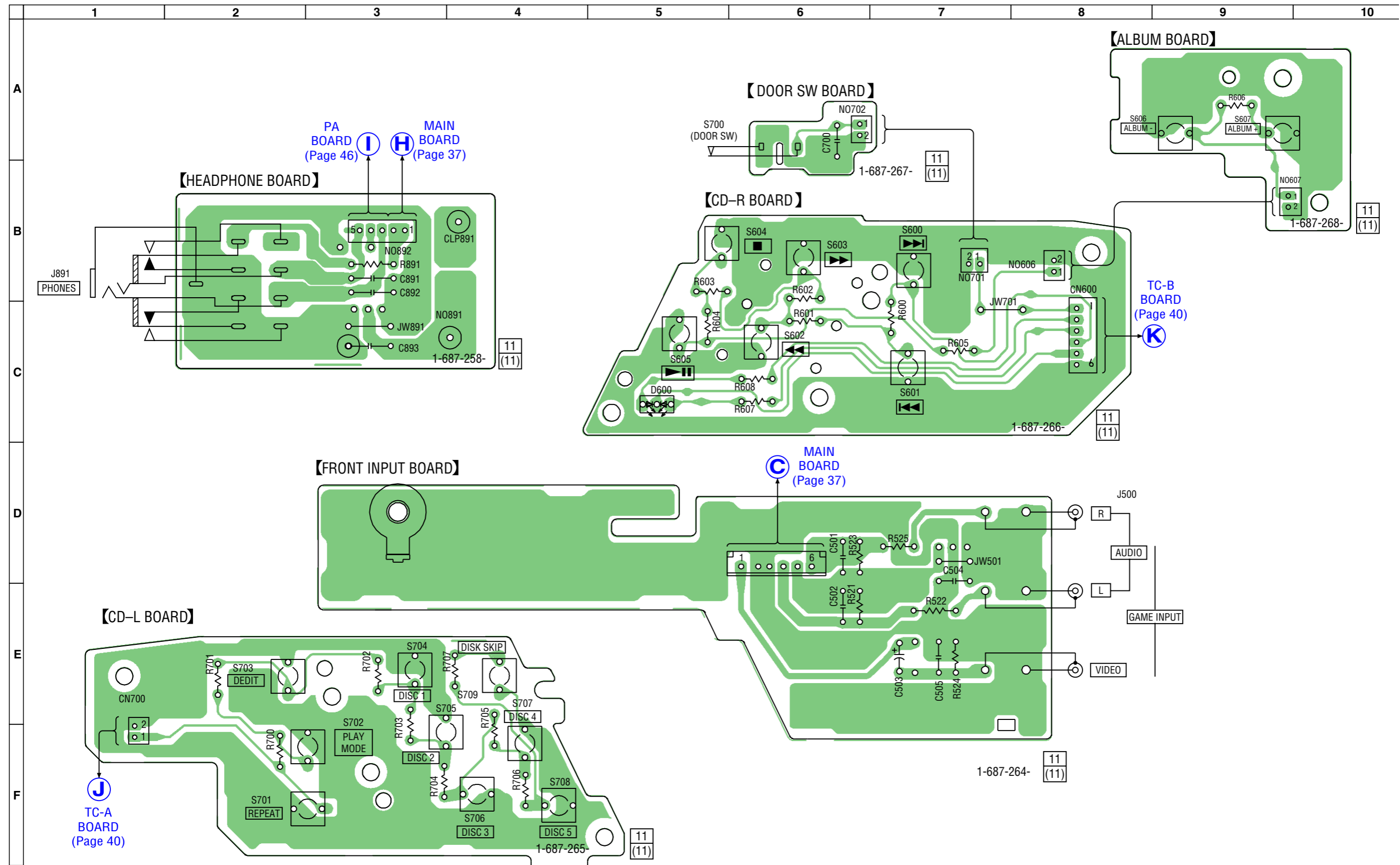


7-13. PRINTED WIRING BOARD – MAIN SECTION – • See page 22 for Circuit Boards Location.

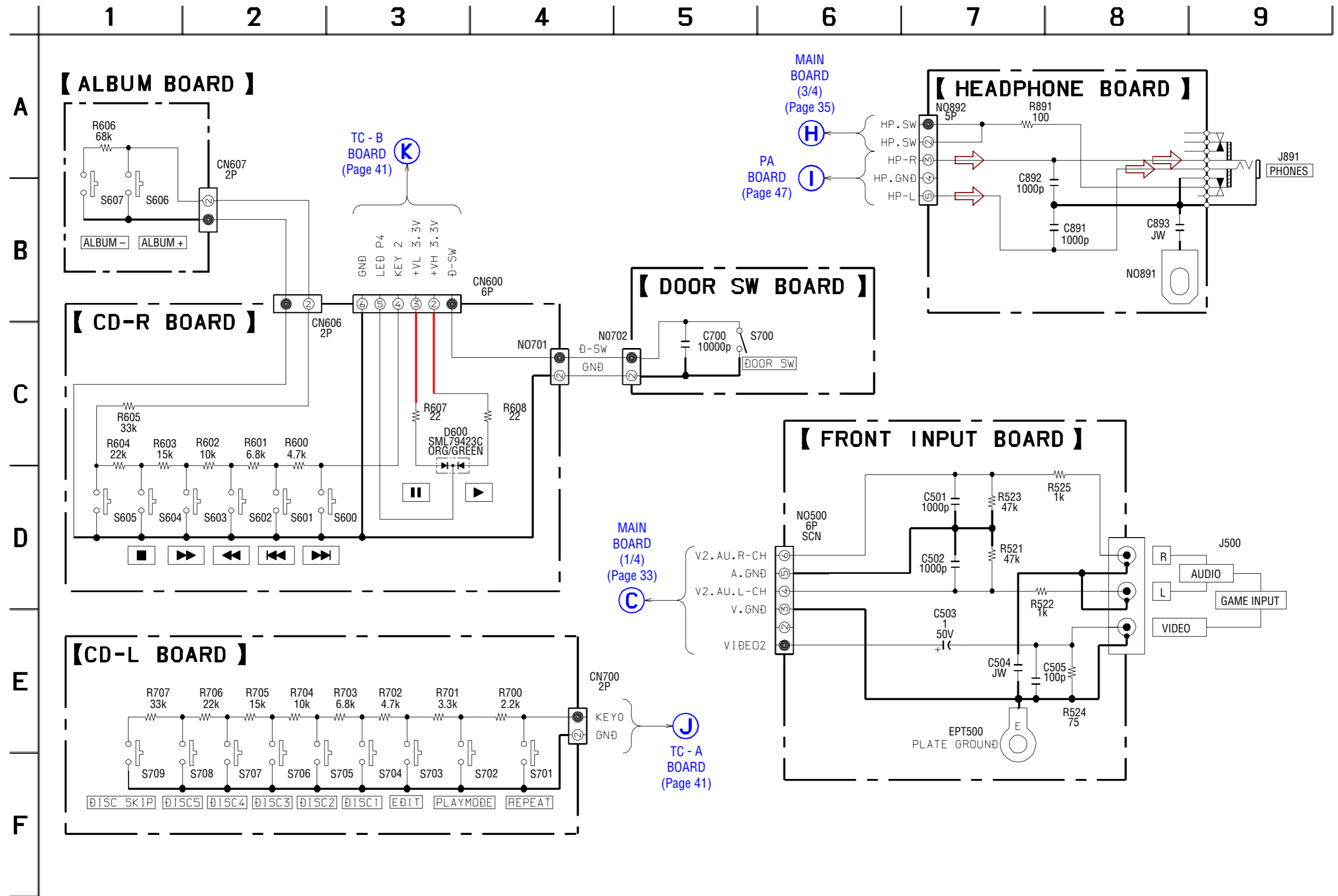


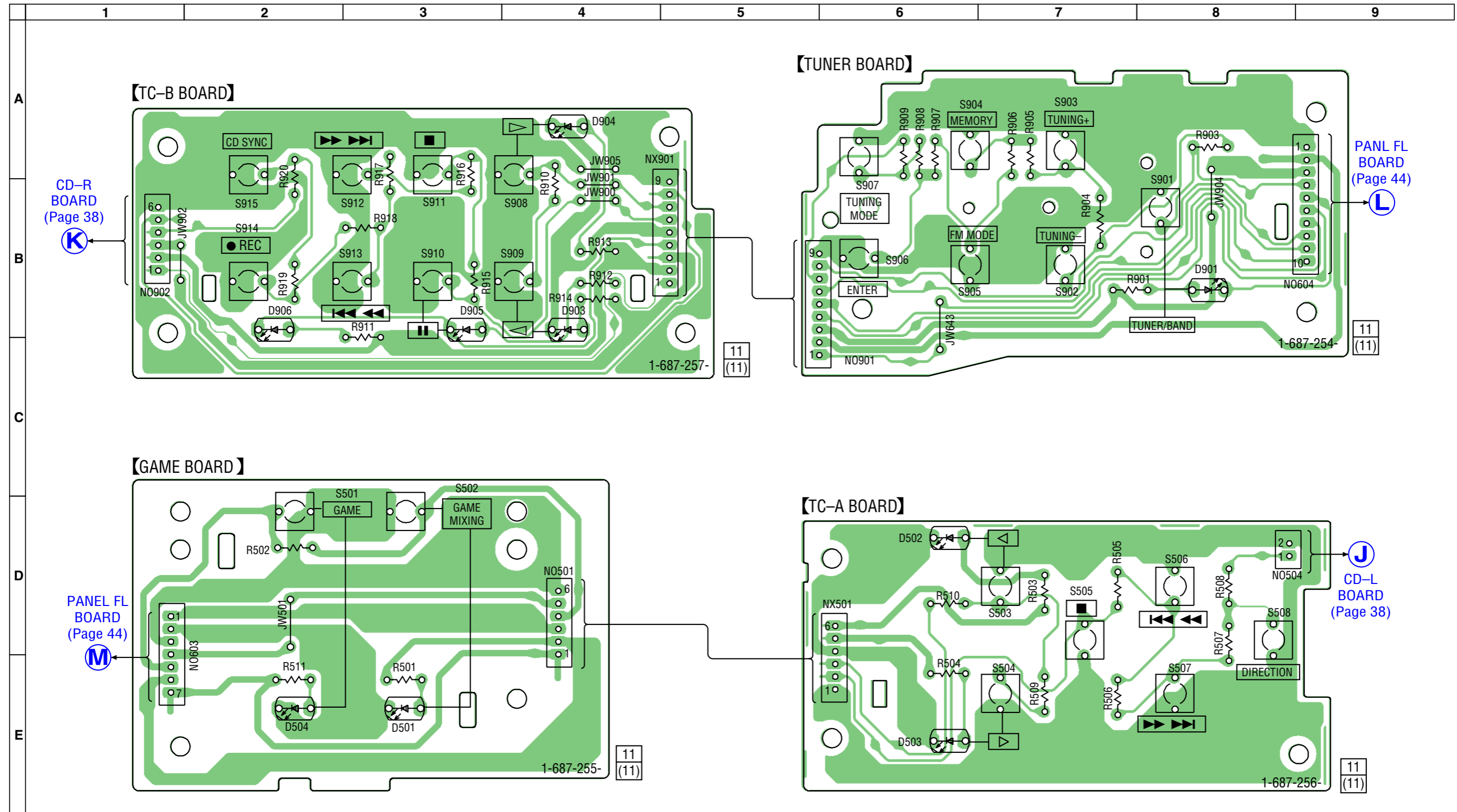
• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D161	H-3	Q166	I-3
D162	H-3	Q167	I-3
D191	I-7	Q181	I-8
D192	I-8	Q182	J-8
D381	B-11	Q321	G-11
D382	B-11	Q322	G-10
D383	C-12	Q323	G-11
D384	C-12	Q324	G-12
D431	A-10	Q325	G-11
D801	B-7	Q326	G-11
D802	C-7	Q327	G-11
D803	B-7	Q331	G-10
D804	C-7	Q334	G-10
D805	B-6	Q335	G-10
D806	B-6	Q341	C-13
D807	B-7	Q342	B-13
D808	B-7	Q343	C-12
D809	B-10	Q344	B-12
D810	B-9	Q381	B-12
D811	B-5	Q382	B-10
D815	C-10	Q383	B-12
D911	D-4	Q384	B-10
D912	D-4	Q385	B-10
D913	D-4	Q386	B-10
D914	D-3	Q401	C-3
D915	D-2	Q402	B-4
D916	D-3	Q411	B-3
D961	H-2	Q412	B-2
D962	H-2	Q611	G-13
D963	I-2	Q701	J-10
D964	I-2	Q731	J-9
D965	I-2	Q751	J-10
IC111	H-5	Q801	B-7
IC181	I-9	Q802	B-7
IC191	I-7	Q803	B-6
IC301	D-12	Q804	B-6
IC501	C-8	Q805	B-6
IC601	I-13	Q806	B-6
IC801	B-7	Q807	B-6
IC912	H-3	Q808	B-6
IC921	E-4	Q809	C-6
IC922	E-4	Q810	B-6
IC931	G-3	Q911	D-3
		Q921	D-4
		Q922	D-4
		Q923	H-3
		Q961	J-4
		Q962	J-4



7-15. SCHEMATIC DIAGRAM – CD-L, CD-R SECTION –

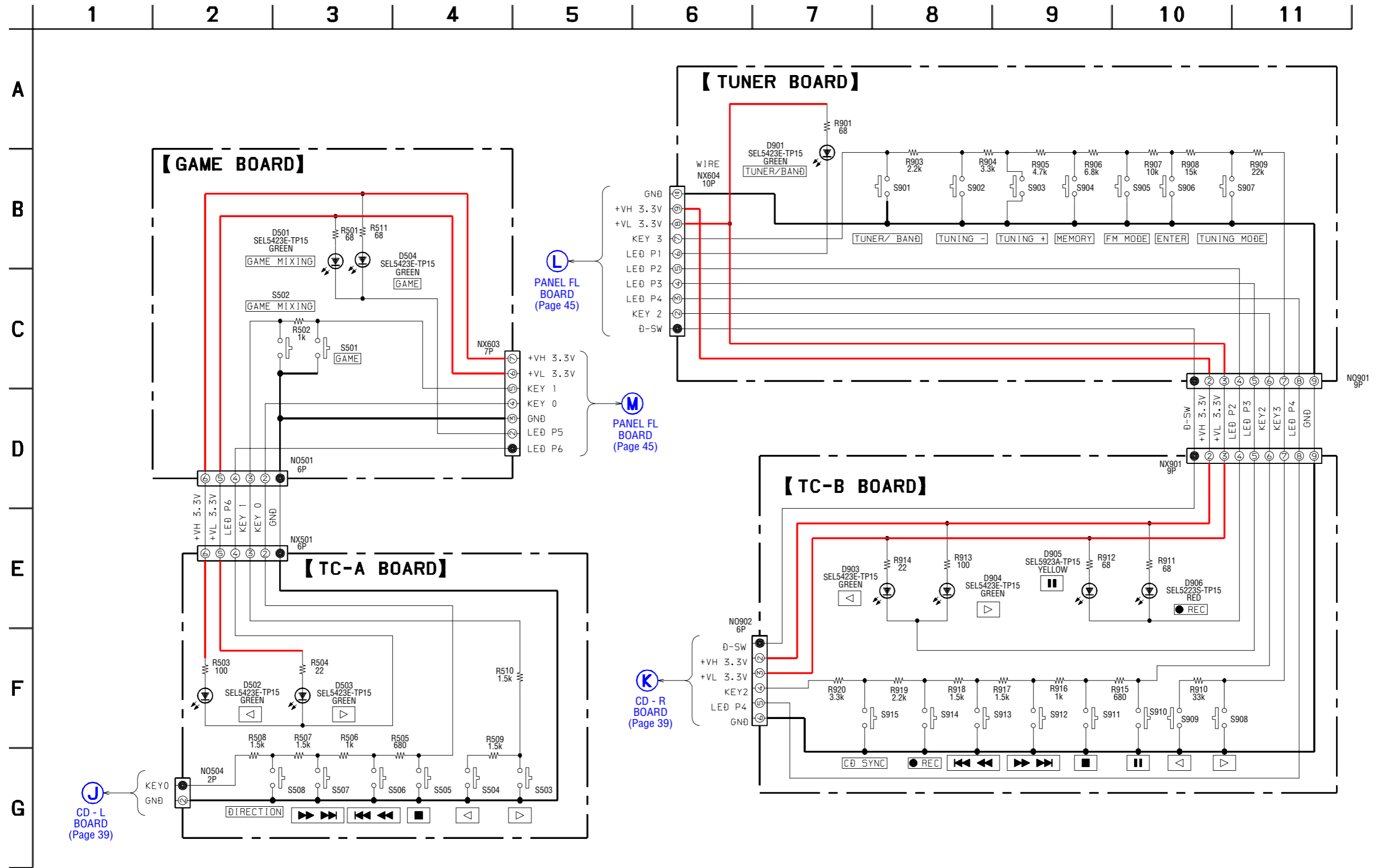




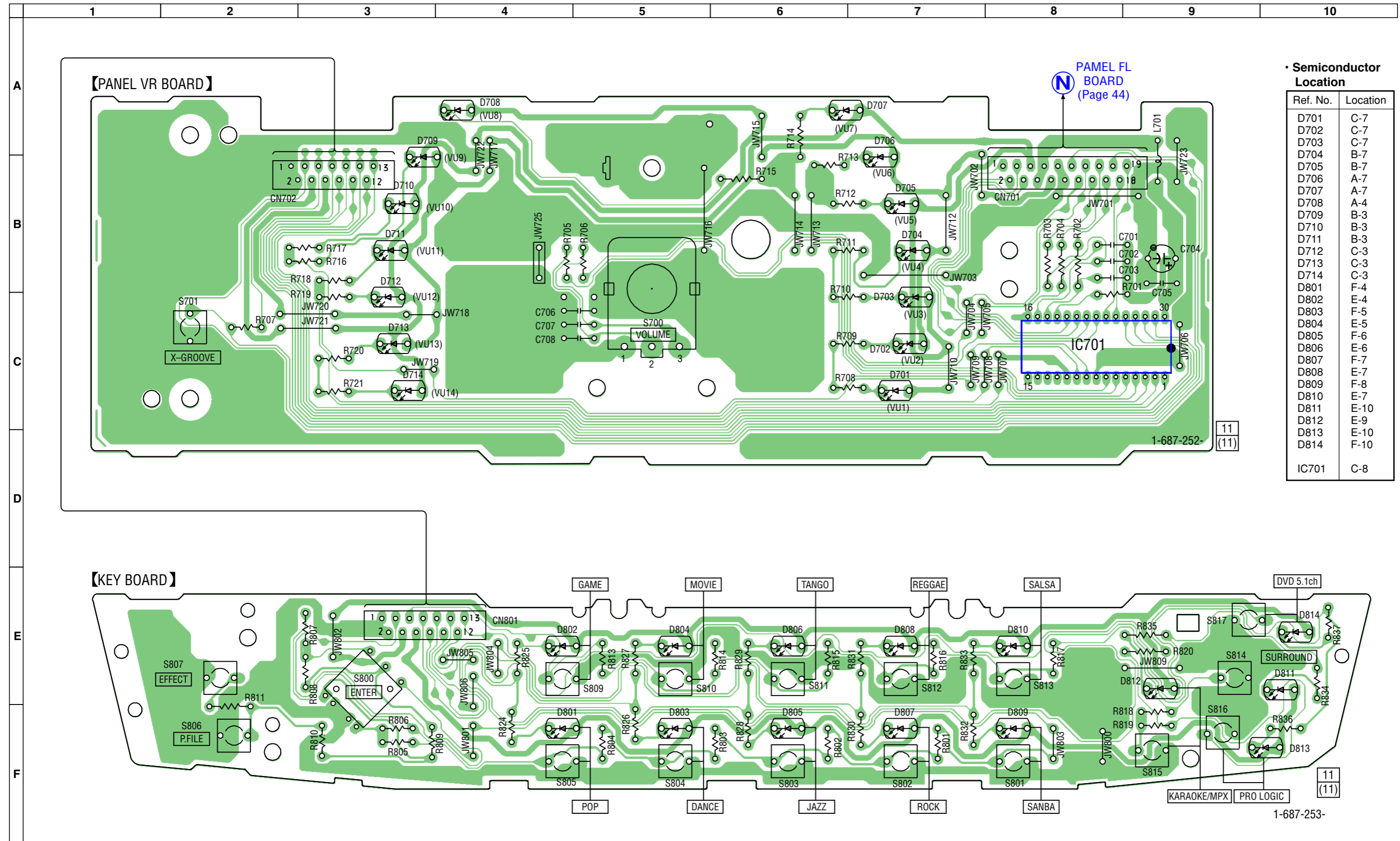
• Semiconductor Location

Ref. No.	Location
D501	E-3
D502	D-6
D503	E-6
D504	E-2
D901	B-8
D903	B-4
D904	A-4
D905	B-3
D906	B-2

7-17. SCHEMATIC DIAGRAM – TC-A, TC-B SECTION –



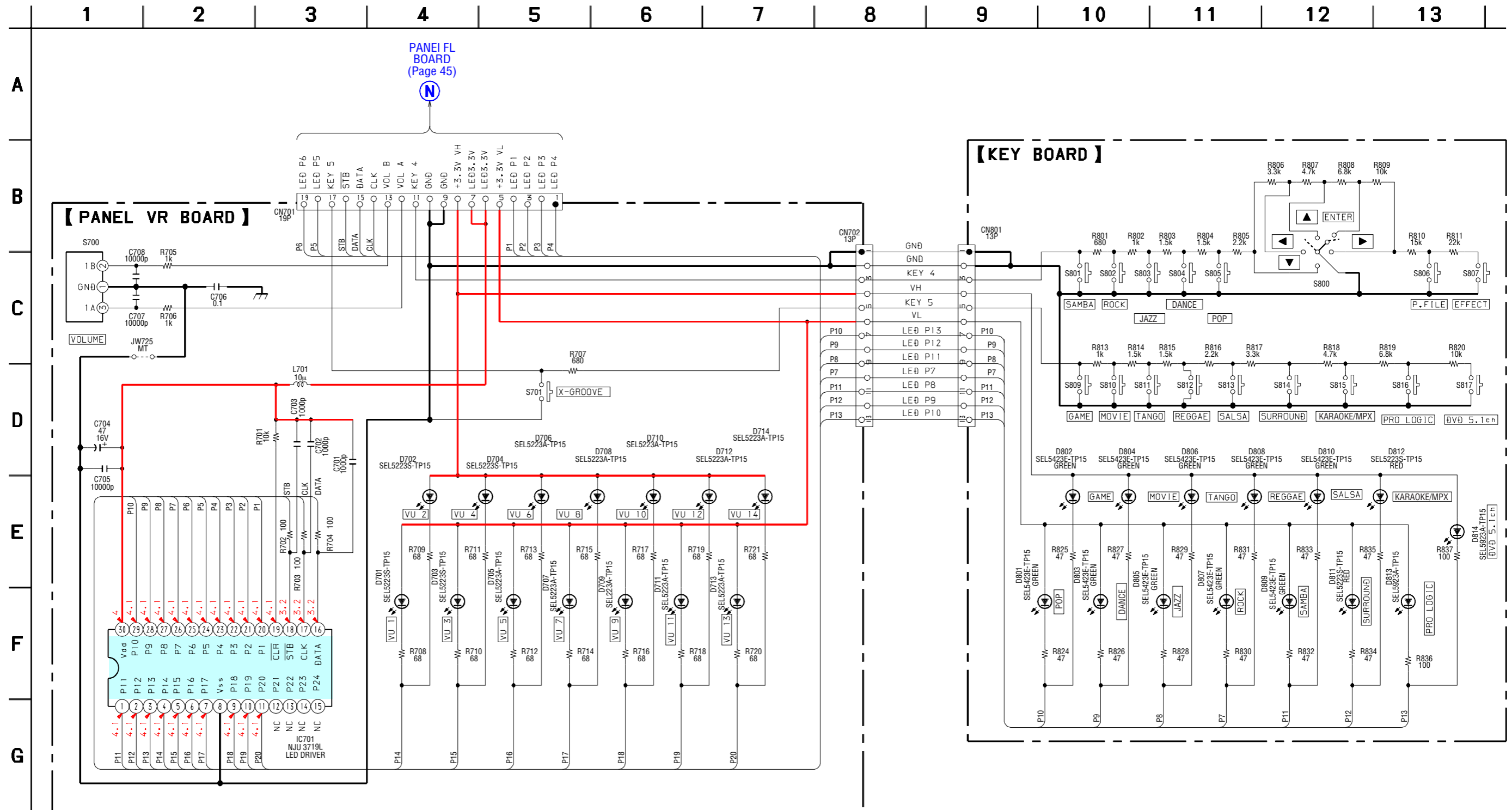
7-18. PRINTED WIRING BOARD – PANEL VR, KEY SECTION – • See page 22 for Circuit Boards Location.

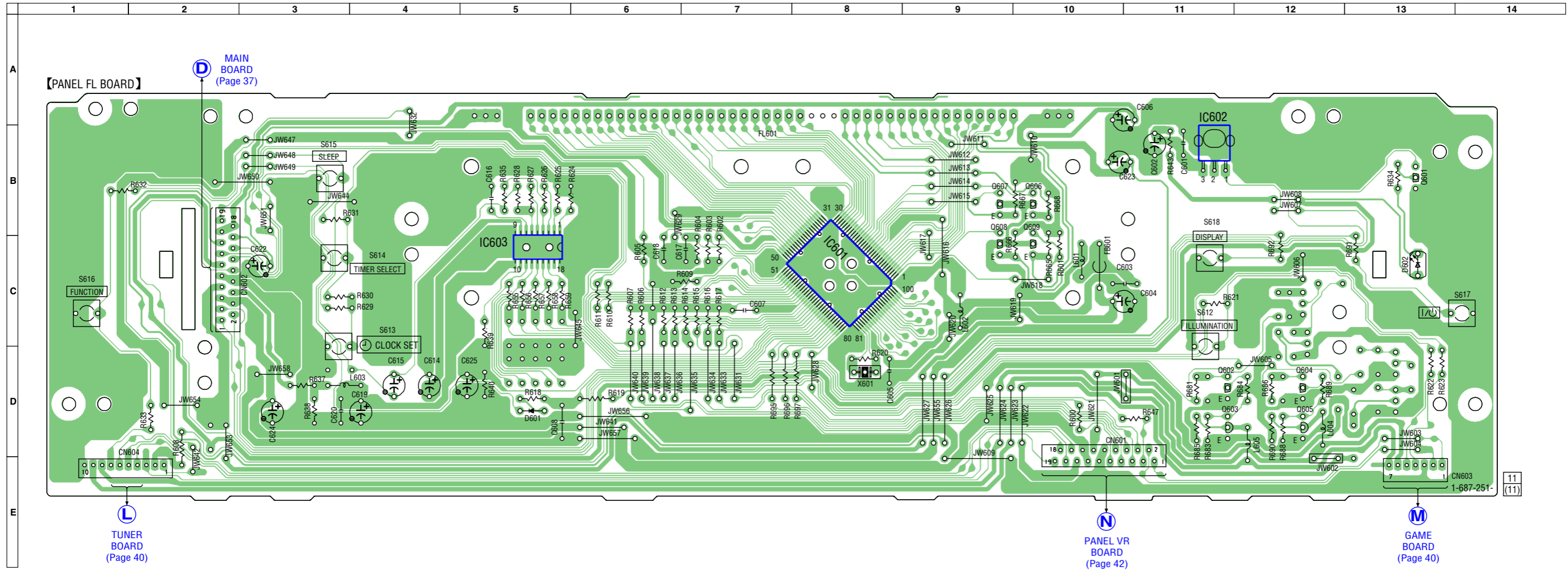


• Semiconductor Location

Ref. No.	Location
D701	C-7
D702	C-7
D703	C-7
D704	B-7
D705	B-7
D706	A-7
D707	A-7
D708	A-4
D709	B-3
D710	B-3
D711	B-3
D712	C-3
D713	C-3
D714	C-3
D801	F-4
D802	E-4
D803	F-5
D804	E-5
D805	F-6
D806	E-6
D807	F-7
D808	E-7
D809	F-8
D810	E-7
D811	E-10
D812	E-9
D813	E-10
D814	F-10
IC701	C-8

7-19. SCHEMATIC DIAGRAM – PANEL VR, KEY SECTION –

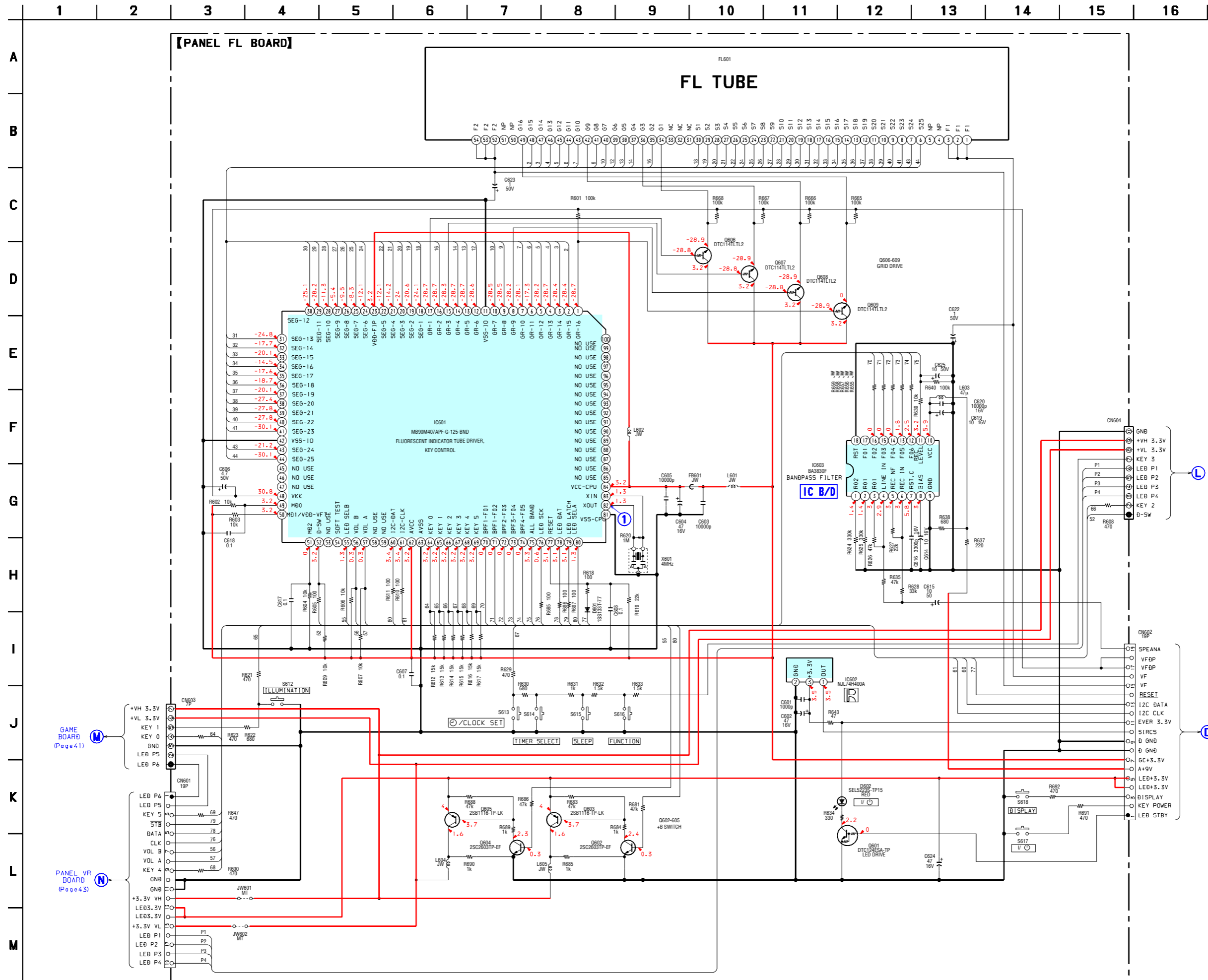


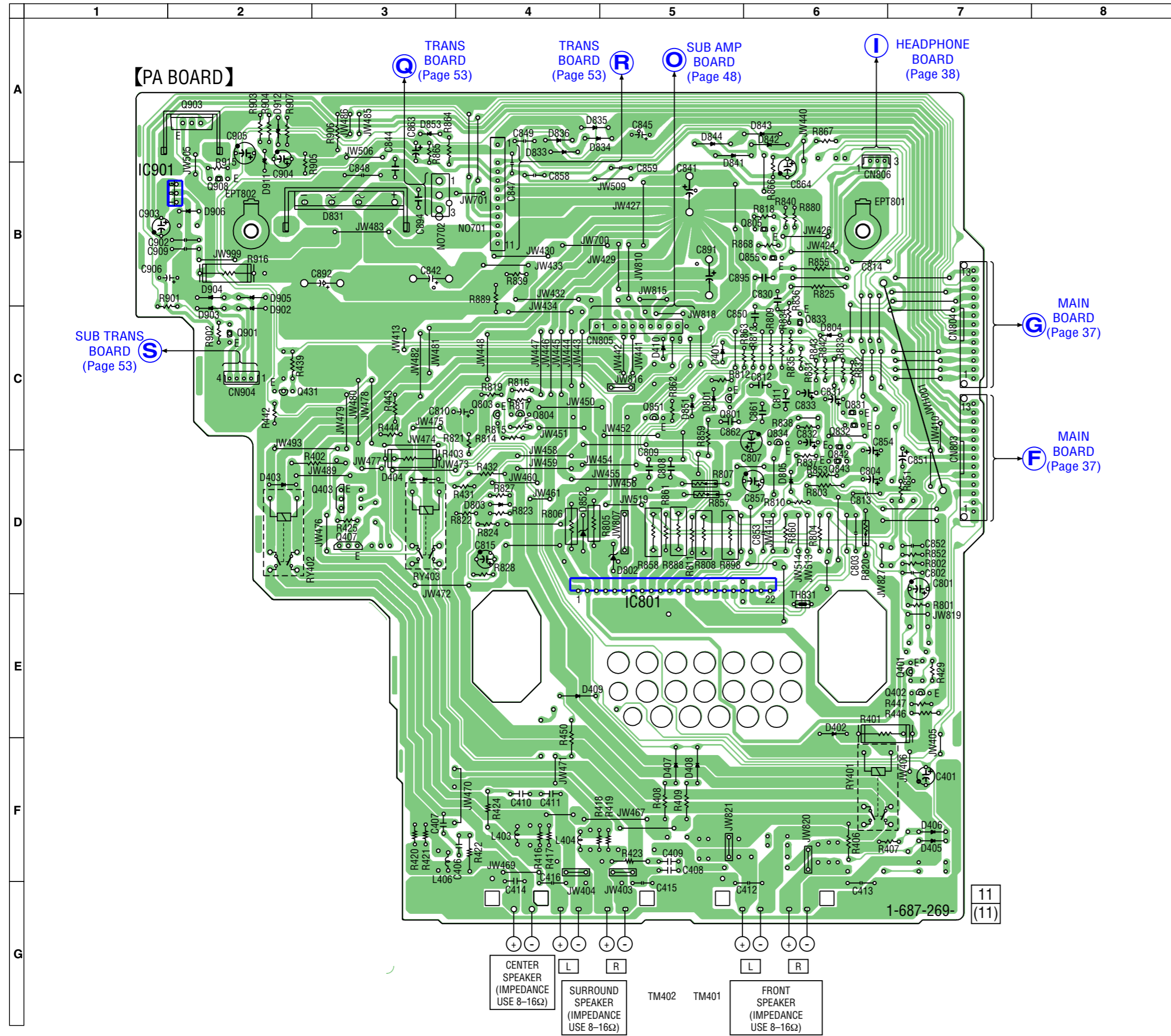


• Semiconductor Location

Ref. No.	Location
D601	D-5
D602	C-13
IC601	C-8
IC602	B-11
IC603	C-5
Q601	B-13
Q602	D-11
Q603	D-11
Q604	D-12
Q605	D-12
Q606	B-10
Q607	B-9
Q608	C-9
Q609	C-10

7-21. SCHEMATIC DIAGRAM – PANEL FL SECTION – • See page 59 for IC Pin Function.

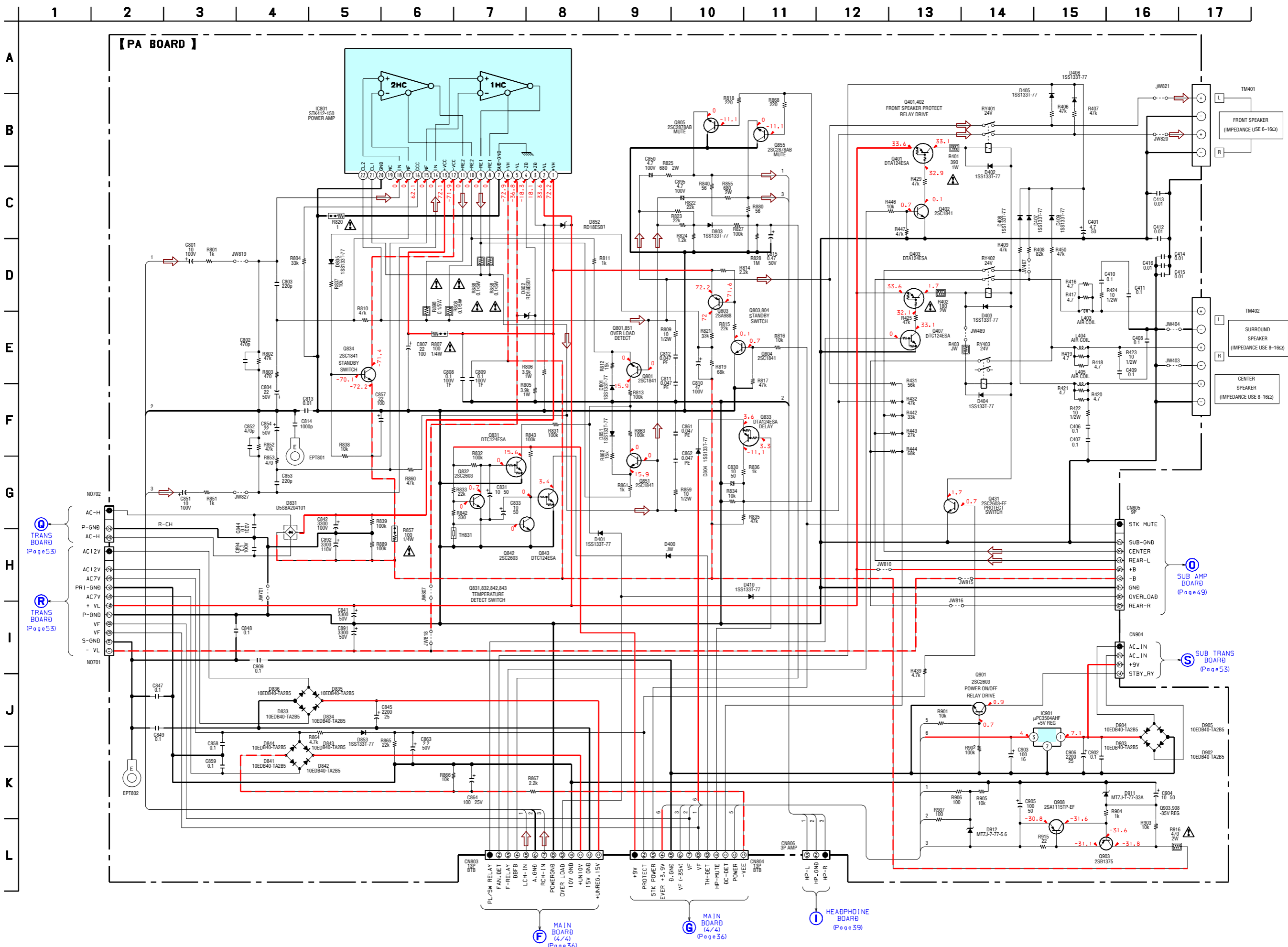


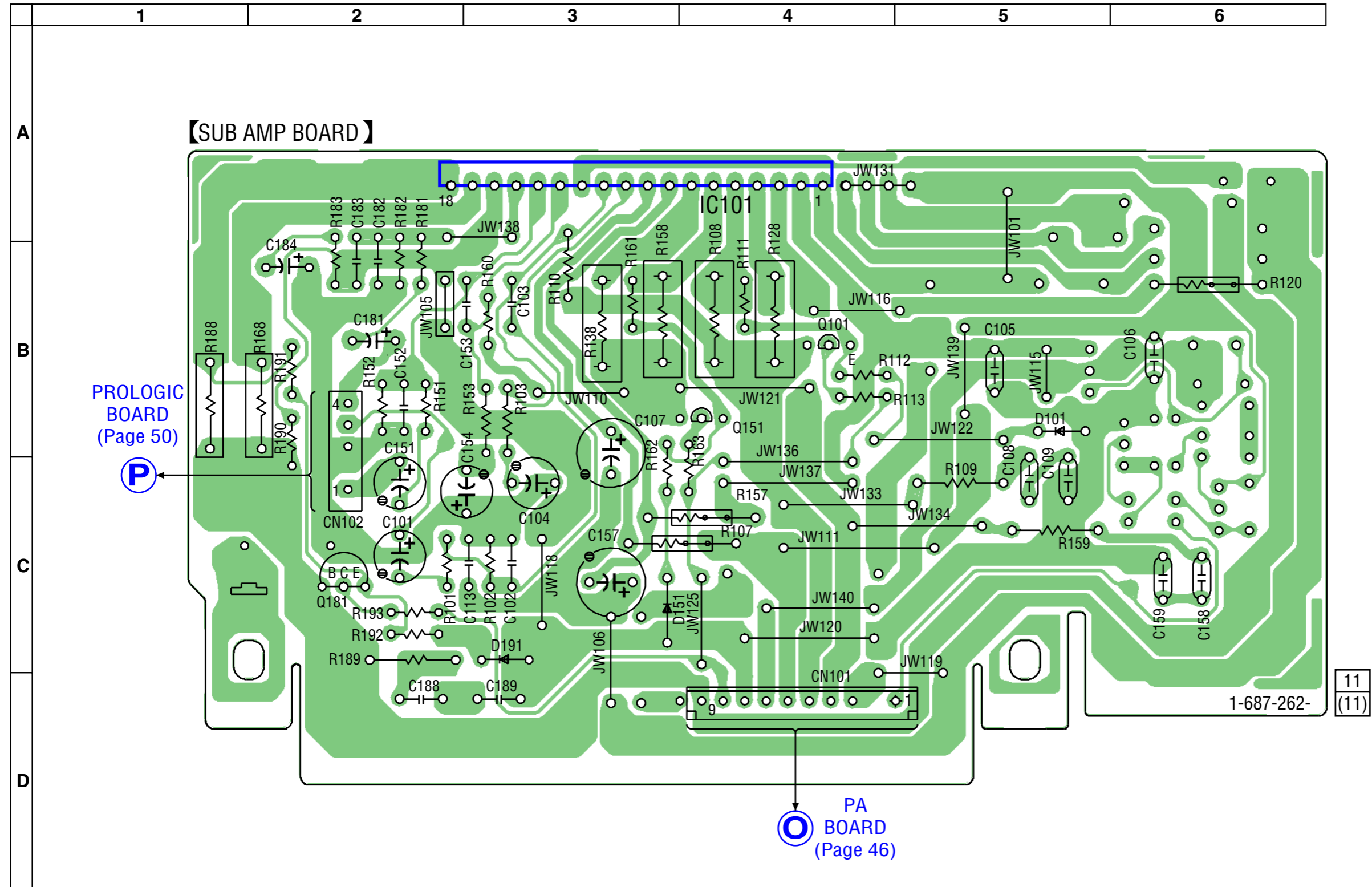


• Semiconductor Location

Ref. No.	Location
D401	C-5
D402	E-6
D403	D-2
D404	D-3
D405	F-7
D406	F-7
D407	F-5
D408	F-5
D409	E-4
D410	C-5
D801	C-5
D802	D-5
D803	D-4
D804	C-6
D805	D-6
D831	B-3
D833	A-4
D834	A-4
D835	A-4
D836	A-4
D841	A-5
D842	A-6
D843	A-6
D844	A-5
D851	C-5
D852	D-4
D853	A-3
D902	C-2
D903	C-2
D904	B-2
D905	B-2
D911	B-2
D912	A-2
IC801	D-5
IC901	B-2
Q401	E-7
Q402	E-7
Q403	D-3
Q407	D-3
Q431	C-2
Q801	C-5
Q803	C-4
Q804	C-4
Q805	B-6
Q831	C-6
Q832	C-6
Q833	C-6
Q834	C-6
Q842	D-6
Q843	D-6
Q851	C-5
Q855	B-6
Q901	C-2
Q903	A-2
Q908	B-2

7-23. SCHEMATIC DIAGRAM – POWER AMP SECTION –

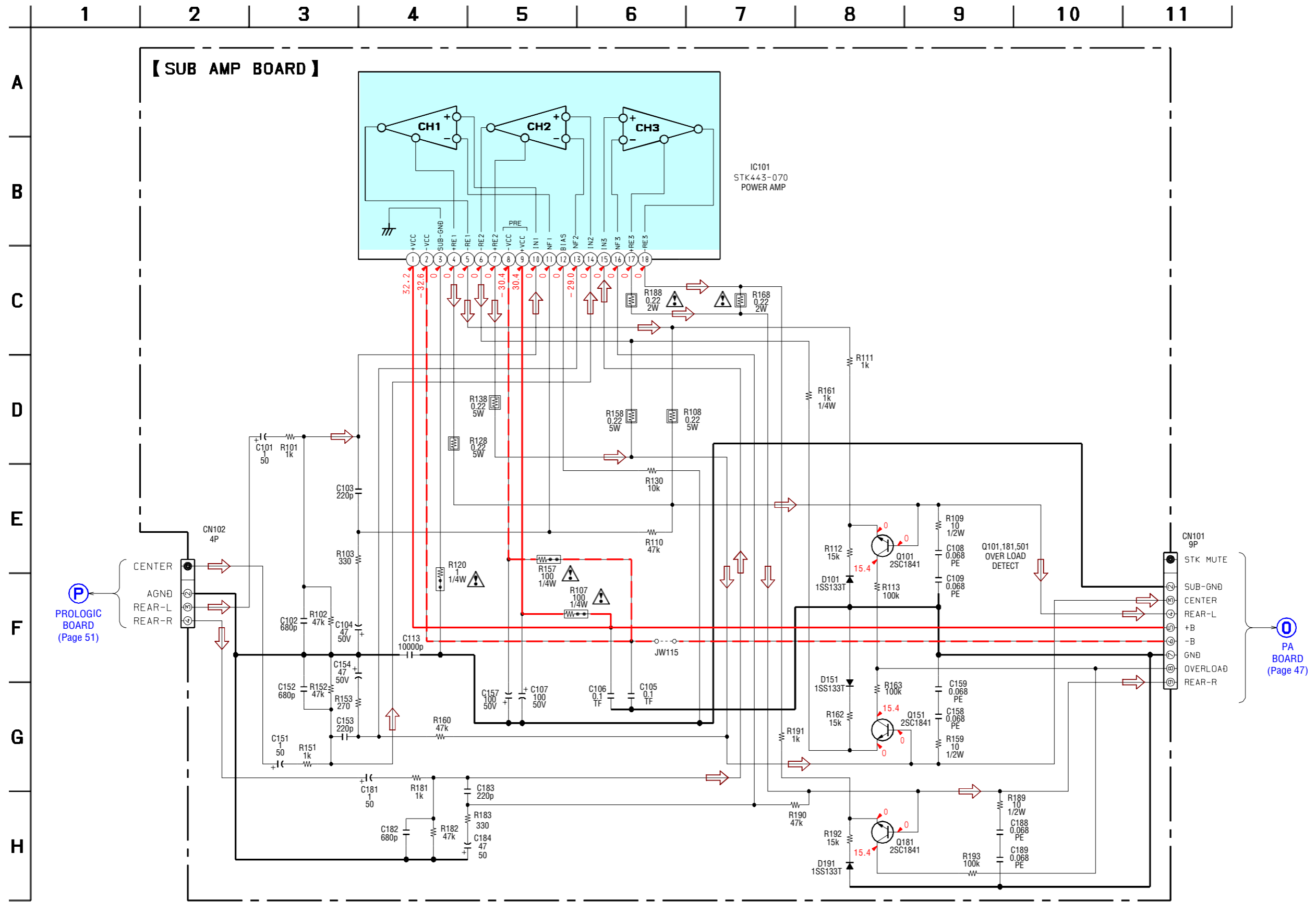


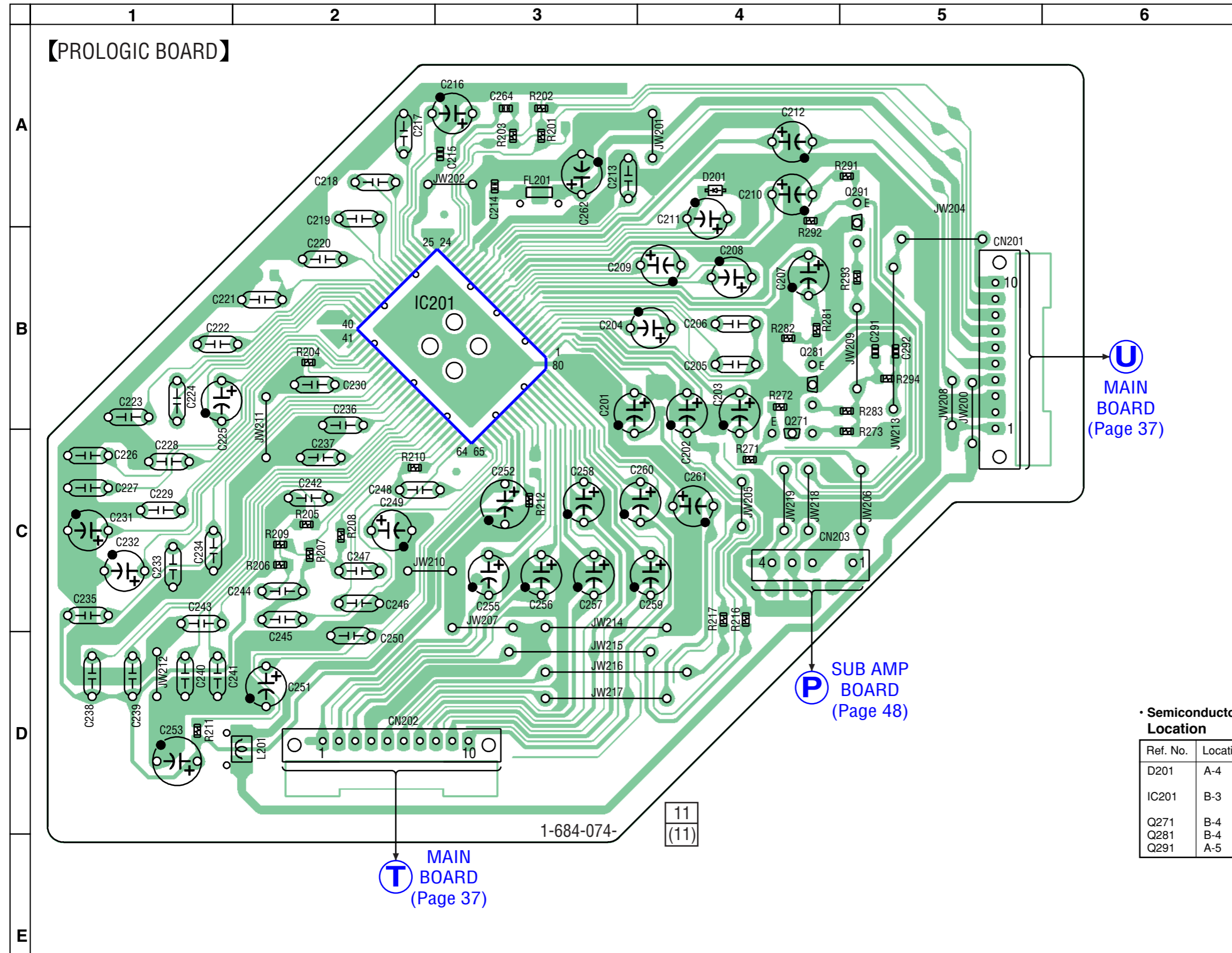


• Semiconductor Location

Ref. No.	Location
D101	B-5
D151	C-3
D191	C-3
IC101	A-4
Q101	B-4
Q151	B-4
Q181	C-2

7-25. SCHEMATIC DIAGRAM – SUB AMP SECTION –



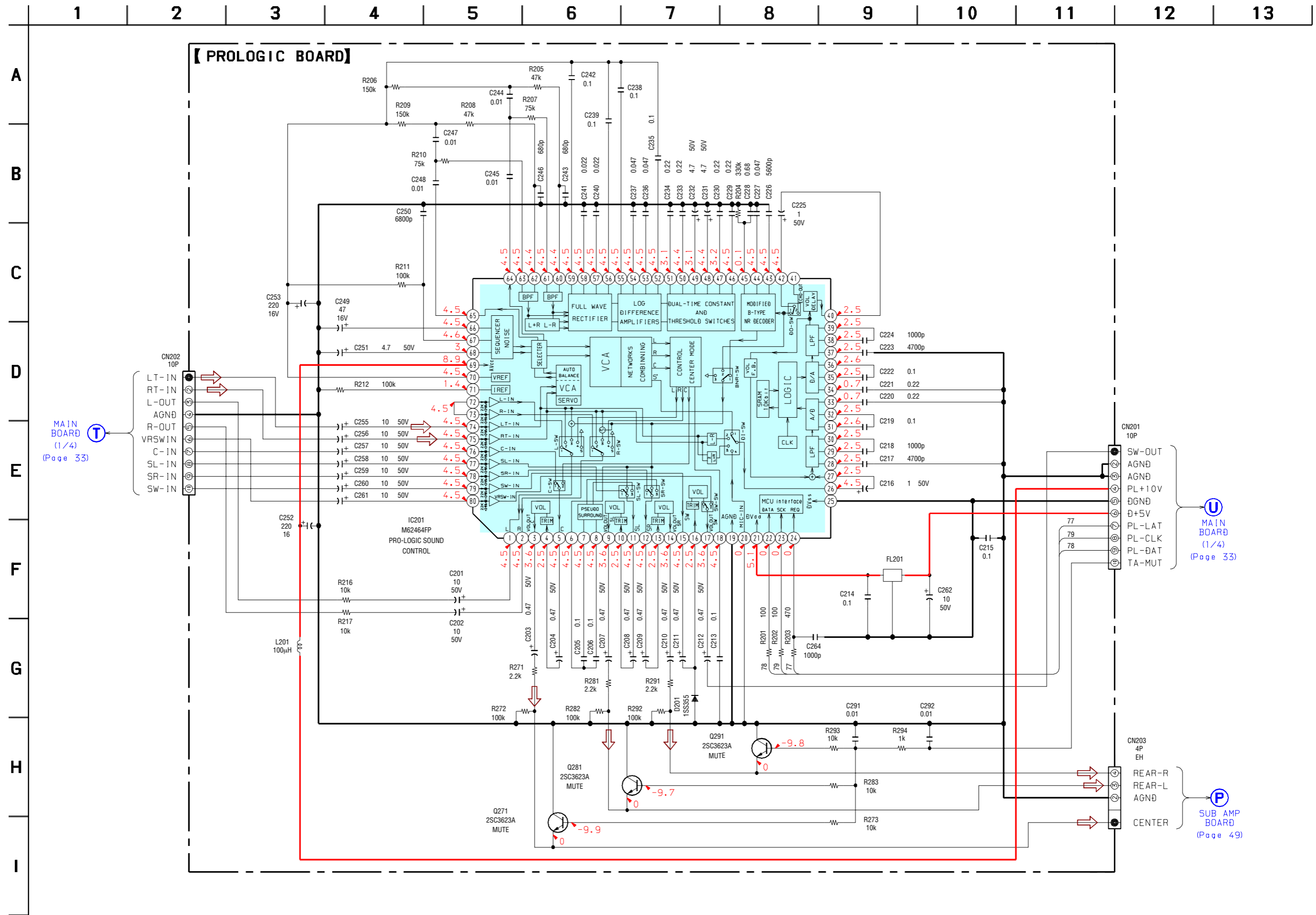


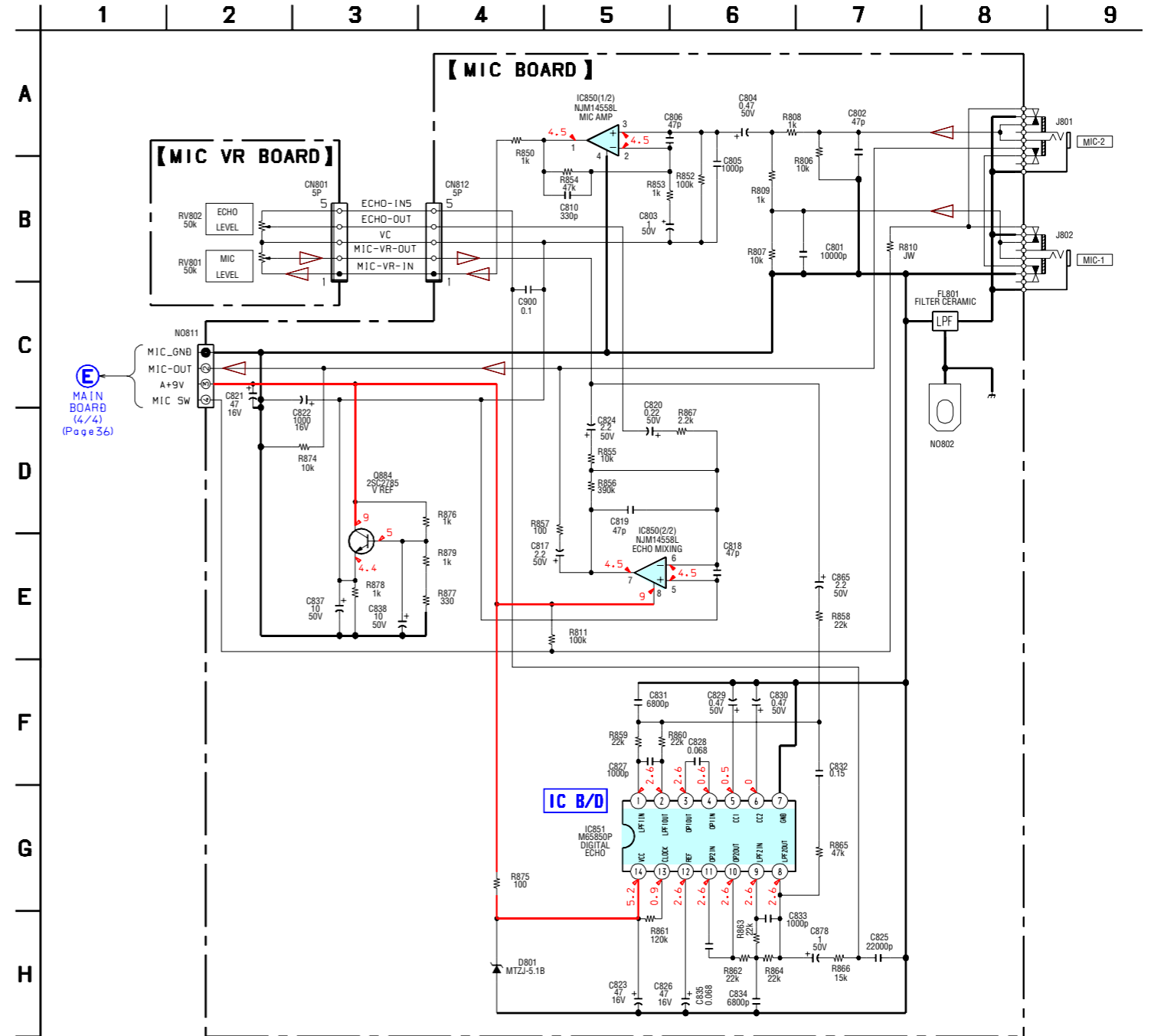
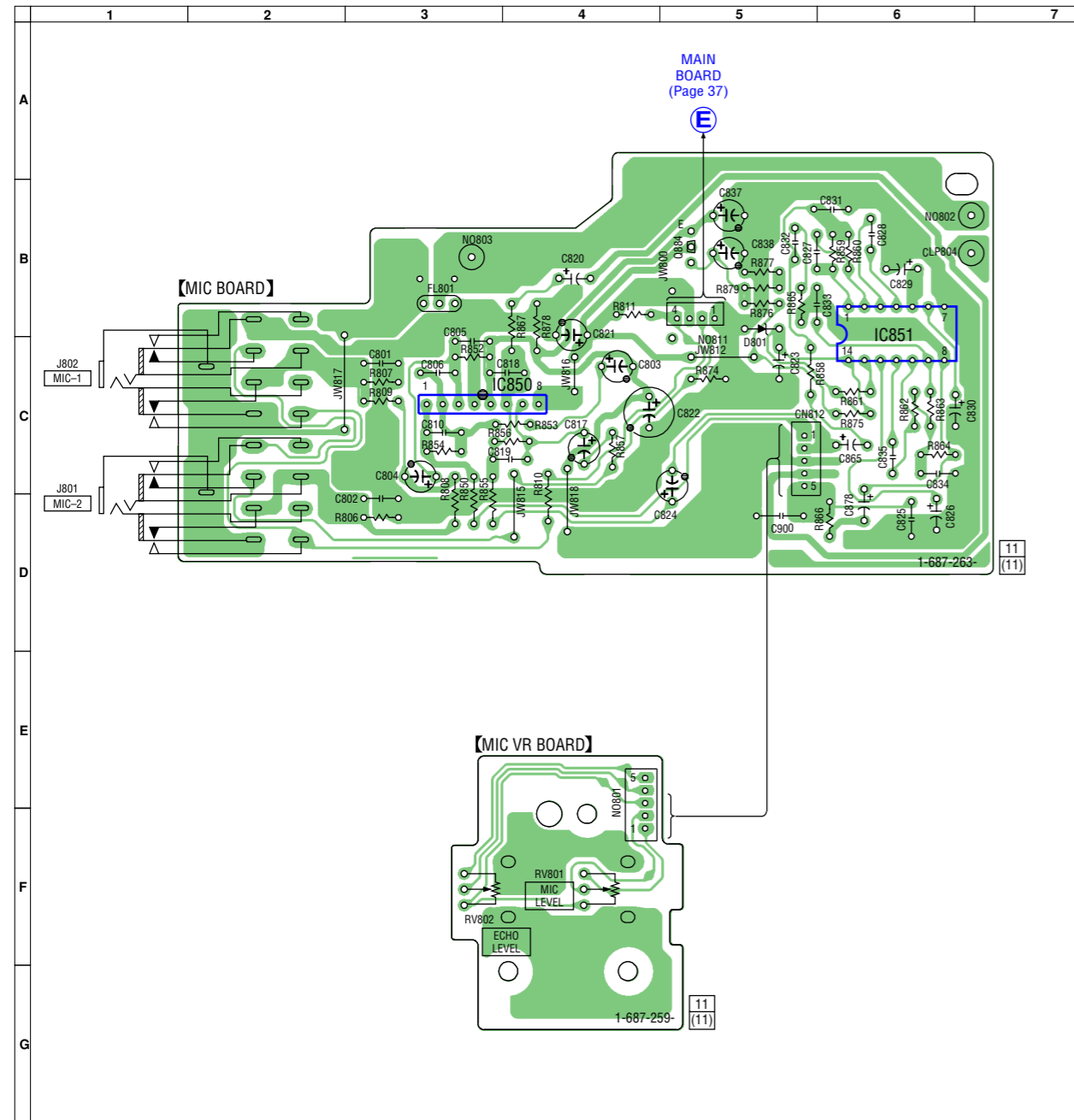
• Semiconductor Location

Ref. No.	Location
D201	A-4
IC201	B-3
Q271	B-4
Q281	B-4
Q291	A-5

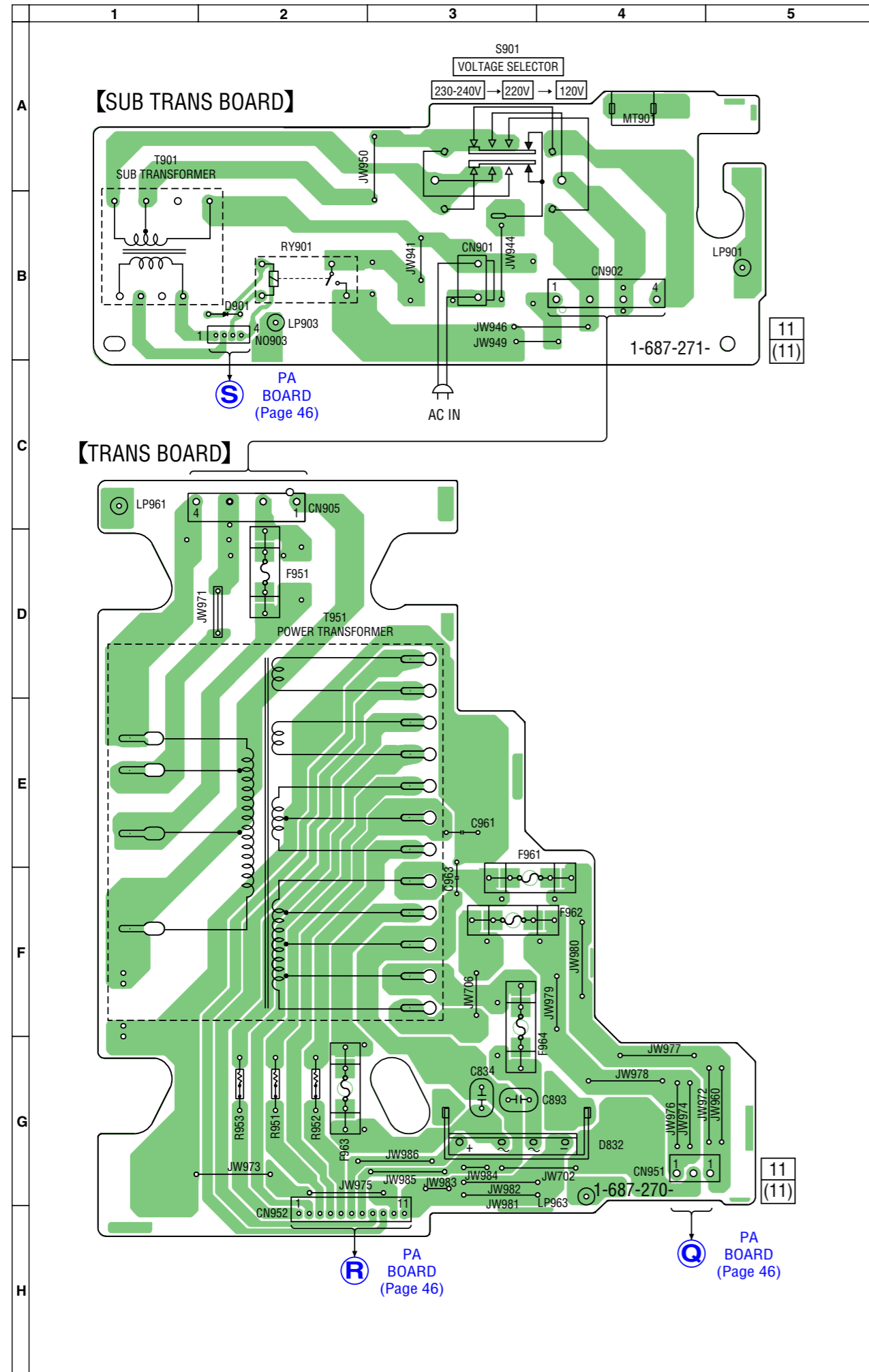
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(11)

7-27. SCHEMATIC DIAGRAM – PROLOGIC SECTION –

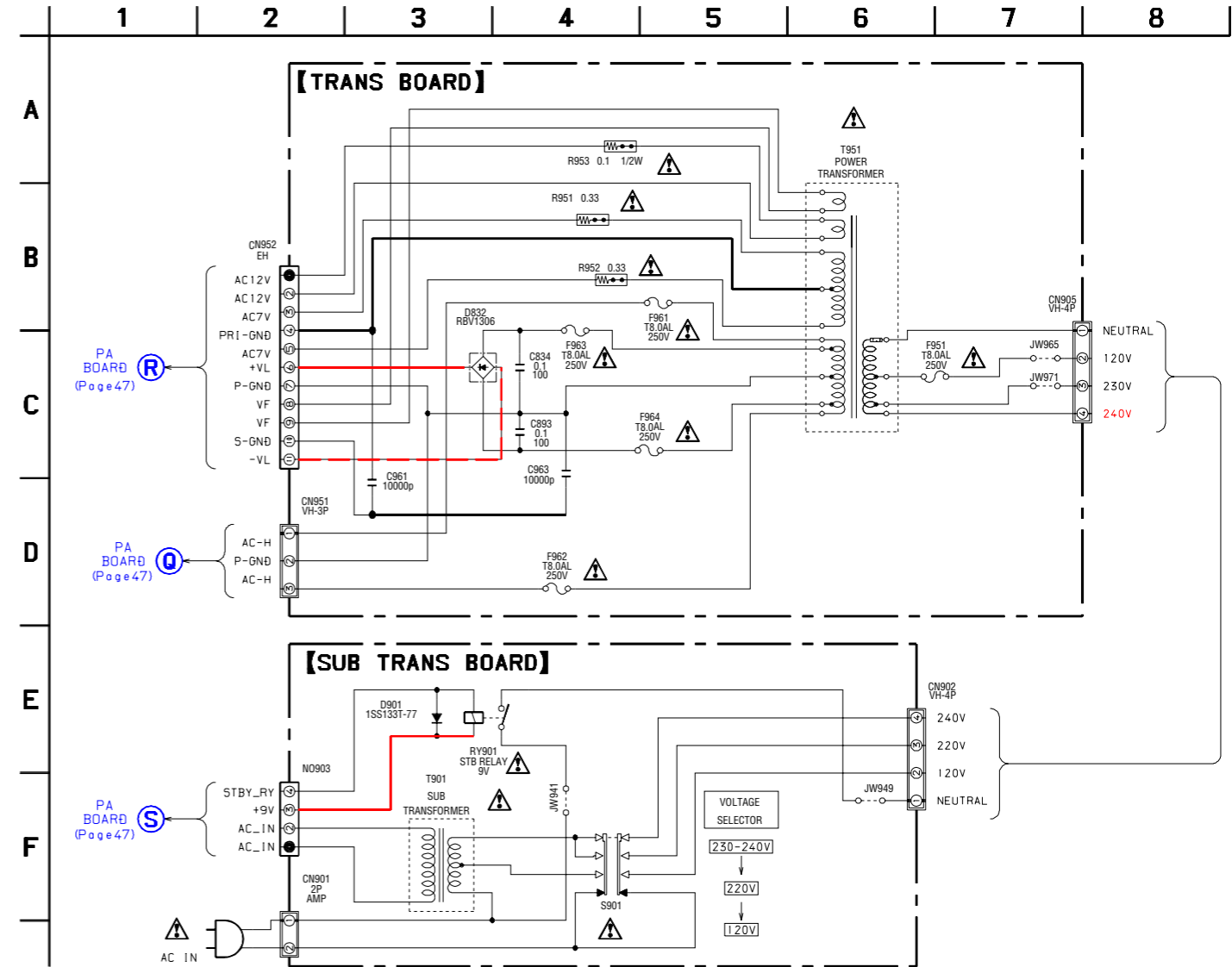




7-30. SCHEMATIC DIAGRAM – POWER SUPPLY SECTION –
 • See page 22 for Circuit Boards Location.



7-31. SCHEMATIC DIAGRAM – POWER SUPPLY SECTION –



7-32. IC PIN FUNCTIONS

• IC505 CXD1887R CD-DSP, DIGITAL SERVO, MPEG DECODER, DAC (VIDEO board)

Pin No.	Pin Name	I/O	Description
1	VB	O	Not used (Connected to ground with capacitor)
2	IREF	O	Reference current output of DAC
3	VRF	I	Reference voltage input of DAC
4	VG	O	Not used (Connected to VDD with capacitor)
5	XCPSIG	O	Not used (Connected to ground)
6	CPSIG	O	Video composite/component (Y) signal output
7	NC	O	Video chroma (C) signal output (Not used)
8	NC	—	Connected to +2.5 V
9	V_AVS	—	Ground
10	IVD1	—	Power supply (+3.3V)
11	I2C_CLK	I/O	Not used (open)
12	I2C_DATA	I/O	Not used (open)
13	GPIO0	I	Serial data input from M30620
14	GPIO1	O	Serial data output to M30620
15	GPIO2	I	Serial clock input from M30620
16	GPIO3	I	Data request signal input
17	LVD1	—	Power supply (+2.5V)
18	GPIO4	O	Ok signal output to M30620
19	GPIO5	I	Chip select signal input from M30620
20	GPIO6	I	Not used (open)
21	GPIO7	O	Not used (open)
22	LVS1	—	Ground
23	GPIO8	O	Not used (open)
24	GPIO9	O	Clock select signal output
25	GPIO10	O	Not used (open)
26	GPIO11	O	Latch signal output to PCM1748
27	LVD2	—	Power supply (+2.5V)
28	GPIO12	O	Data load signal output to BU2507FV
29	GPIO13	O	Serial data output to BU2507FV
30	GPIO14	O	Serial data clock output from BU2507FV
31	IVS1	—	Ground
32	LVS2	—	Ground
33	IVD2	—	Power supply (+3.3V)
34 to 37	DRADR0 to 3	O	Address output to memory
38	LVD3	—	Power supply (+2.5V)
39 to 45	DRADR4 to 10	O	Address output to memory
46	LVS3	—	Ground
47	IVS3	—	Ground
48	IVD3	—	Power supply (+3.3V)
49 to 56	DRDAT0 to 7	I/O	Data input/output to memory
57	IVS3	—	Ground
58	IVD4	—	Power supply (+3.3V)
59 to 66	GRDAT8 to 15	I/O	Data and input/output to memory
67	IVS4	—	Ground
68	DRCAS	O	CAS signal output to memory
69	LVD4	—	Power supply (+2.5V)
70	DRCK	O	Clock output to memory
71	IVD5	—	Power supply (+3.3V)
72	DRRAS	O	RAS signal output
73	DRWEL	O	Write enable signal output to memory

Pin No.	Pin Name	I/O	Description
74	NVOEL	O	Out enable signal output to memory
75	LVS4	—	Ground
76	DRBS	O	Bank select address output to memory
77	DRDQM0	O	Lower byte mask of memory
78	DRDQM1	O	Upper byte mask of memory
79	IV55	—	Ground
80	NC	—	Not used (open)
81	SYSRST	I	System reset signal input
82	IRDIN	I	Not used (Connected to ground)
83	NC	—	Not used (open)
84	VDD1	—	Power supply (+2.5V)
85	V16M	I/O	Not used (open)
86	DOUT	O	Digital audio data output (Not used)
87	L_CDLRCK	I	D/A interface, L/R clock input
88	LRCK	O	D/A interface, L/R clock output
89	VSS1	—	Ground
90	L_CDDATA	I	Serial data input from D/A interface
91	PCMD	O	Serial data output to D/A interface
92	L_CDBCK	I	Bit clock input (2's COMP) from D/A interface
93	BCK	O	Bit clock output (2's COMP) to D/A interface
94	EMPH	O	Not used (open)
95	L_SQSO	I	SubQ 80bit and PCM peak level data input
96	SQSO	O	SubQ 80bit and PCM peak level data output
97	VDD2	—	Power supply (+2.5V)
98	L_SQCK	O	SQSO read out clock output
99	SQCK	I	SQSO read out clock input
100	SBSO	O	Not used (open)
101	EXCK	I	Not used (Connected to ground)
102	DATA	I	Serial data input from CPU
103	L_DATA	O	Serial data output to CPU
104	VSS2	—	Ground
105	L_CDXRST	I	System reset signal input (L:reset)
106	XRST	O	System reset signal output (L:reset)
107	MUTE	I	Not used (Connected to ground)
108	L_XLAT	O	Latch signal output to CPU
109	XLAT	I	Latch signal input from CPU
110	L_DCLK	O	Serial data clock output
111	CLOK	I	Serial data clock input
112	L_SENS	I	SENS signal input
113	SENS	O	SENS signal output
114	L_SCLK	O	SENS serial data read clock output
115	SCLK	I	SENS serial data read clock input
116	VDD3	—	Power supply (+2.5V)
117	ATSK	I/O	Not used (Connected to ground)
118	XUGF	O	Not used (open)
119	XPCK	O	Not used (open)
120	L_GFS	I	GPS signal input
121	GFS	O	GPS signal output
122	VSS3	—	Ground

Pin No.	Pin Name	I/O	Description
123	L_CDC2PO	I	C2PO signal input
124	C2PO	O	C2PO signal output
125	L_SCOR	I	Sub code sink (S0 or S1) detect signal input
126	SCOR	O	Sub code sink (S0 or S1) detect signal output
127	COUT	I/O	Not used (open)
128	VDD4	—	Power supply (+2.5V)
129	MIRR	I/O	Not used (open)
130	DFCT	I/O	Not used (open)
131	L_FOK	I/O	Focus OK signal input/output
132	FOK	I/O	Focus OK signal input/output
133	MDP	O	Servo control signal output of spindle motor
134	VSS4	—	Ground
135	SSTOP	I	Inner position of optical pick-up signal input
136	FSTO	O	Not used (open)
137	SFDR	O	Sled motor control signal output
138	SRDR	O	Sled motor control signal output
139	VDD5	—	Power supply (+2.5V)
140	TFDR	O	Tracking coil control signal output
141	TRDR	O	Tracking coil control signal output
142	FFDR	O	Focus coil control signal output
143	FRDR	O	Focus coil control signal output
144	VSS5	—	Ground
145	WFCK	O	Not used (open)
146	WDCK	O	Not used (open)
147	ASYE	I	Not used (Connected to +2.5V)
148	VDD6	—	Power supply (+2.5V)
149	XTAI	I	Crystal oscillator input (33.8688MHz)
150	XTAO	O	Crystal oscillator output (33.8688MHz)
151	VSS6	—	Ground
152	TES1	I	Not used (Connected to ground)
153	TEST	I	Not used (Connected to ground)
154	NC	—	Not used (open)
155	NC	—	Not used (Connected to ground)
156	AVD0	—	Power supply (+2.5V)
157	IGEN	I	OP AMP current constant setting input
158	AVS0	—	Ground
159	ADIO	O	Not used (open)
160	RFDC	I	RF signal input
161	CE	I	center servo analog signal input
162	TE	I	Tracking error signal input
163	SE	I	Sled error signal input
164	FE	I	Focus error signal input
165	VC	I	Center voltage signal input
166	VPCO	O	EFM PLL charge pump output
167	VCTL	I	EFM PLL charge pump input
168	FILO	O	Master PLL filter output
169	FILI	I	Master PLL filter input
170	PCO	O	Master PLL charge pump output
171	CLTV	I	VCO1 control signal input

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Pin No.	Pin Name	I/O	Discription
172	AVS1	—	Ground
173	RFAC	I	EFM (RF) signal input
174	BIAS	I	Current source input
175	ASYI	I	Comparator voltage input
176	ASYO	O	EFM full swing signal output (L:VSS, H:VDD)
177	AVD1	—	Power supply (+2.5V)
178	VDD7	—	Power supply (+2.5V)
179	SOUT	O	Not used (open)
180	SOCK	O	Not used (open)
181	XOLT	O	Not used (open)
182	C4M	O	Not used (open)
183	LOCK	I/O	Not used (open)
184	VSS7	—	Ground
185	MD2	I	Not used (Connected to ground)
186	SCSY	I	Not used (Connected to ground)
187	PWMI	I	Not used (Connected to ground)
188	VDD8	—	Power supply (+2.5V)
189	XTSL	I	X'tal frequency select input (L:16.9344MHz, H:33.8688MHz)
190	VSS8	—	Ground
191	PVS2	—	Ground
192	LPFI	I	PLL2 filter terminal
193	LPFO	I	PLL2 filter terminal
194	PVD2	—	Power supply (+2.5V)
195	NC	—	Not used (open)
196	NC	—	Not used (open)
197	PVD1	—	Power supply (+2.5V)
198	PVS1	—	Ground
199	TRODE0	I	Not used (Connected to ground)
200	AUDDTI	I	Not used (Connected to ground)
201	AUDDTO0	O	Audio serial data output to PCM1748
202	AUDDTO1	O	Digital audio data output (Not used)
203	AUDBCK	O	Audio serial data bit clock output to PCM1748
204	AUDLRCK	O	Audio serial data L/R clock output to PCM1748
205	AUDXCLKO	O	Audio serial clock output to PCM1748
206	CLKA	I	Crystal oscillator input (27MHz)
207	CLKB	O	Crystal oscillator output (27MHz)
208	VDD9	—	Power supply (+2.5V)
209	THRCLK	I	Not used (open)
210	TESTEN	I	Not used (Connected to ground)
211	TCLK	I	Not used (Connected to ground)
212	TMODE1	I	Not used (Connected to ground)
213	TRST	I	Not used (open)
214	VSS9	—	Ground
215	NC	—	Ground
216	V_AVD	—	Power supply (+2.5V)

• IC501 M30620MCN-A21FP SYSTEM CONTOL (MAIN Board)

Pin No.	Pin Name	I/O	Description
1	AUDIO-OUT	O	MD output mute signal output
2	STEREO	I	Stereo signal input
3	TUNED	I	Tuned signal input
4	SIRCS	I	SIRCS input
5	CD-MUTE	O	CD mute signal output
6	PARTY-DATA	—	Not used (open)
7	PARTY-CLK	—	Not used (open)
8	BYTE	I	Not used (connected to ground)
9	CNVSS	—	Not used (Connected to ground with resistor)
10	XC-IN	I	Sub clock input
11	XC-OUT	O	Sub clock output
12	RESET	I	System reset input
13	X-OUT	O	Main system clock output (16MHz)
14	VSS	—	Ground
15	X-IN	I	Main system clock input (16MHz)
16	VCC	—	Power supply (+3.3V)
17	NMI	I	Not used (Pull up with resistor)
18	V-SELA	I	Video input select signal output.
19	SCOR	O	Chip select signal output to CXD1887R
20	AC-CUT	I	AC cut check signal input
21	ST-MUTE	O	Tuner mute signal output
22	ST-CE	O	Tuner chip enable signal output
23	ST-DOUT	O	Tuner data output
24	BU-PWM3	O	BU PWM 3 (for CD-RW) signal output (Not used)
25	ST-DIN	I	Tuner data input
26	BU-PWM2	O	BU PWM 2 (for CD-RW) signal output (Not used)
27	ST-CLK	O	Tuner clock signal output
28	BU-PWM1	O	BU PWM 1 (for CD-RW) signal output (Not used)
29	IIC-CLK	I	IIC serial data clock input
30	IIC-DATA	I	IIC serial data input
31	–	—	Not used (open)
32	SQ-DATA	I	OK signal input from CXD1887R
33	SQ-CLK	O	Video mute signal output to BD7600FV
34	SENS	I	Not used (open)
35	CD-DATA	O	Serial data output to CXD1887R
36	XLT	I	Serial data input from CXD1887R
37	CD-CLK	O	Serial clock output to CXD1887R
38	CD-POWER	O	CD power on/off signal output
39	CLK-OUT	O	Not used (open)
40	LD-ON	O	Laser diode control signal output
41	OTM-RESET	O	Other micom reset
42	PARTY-TEMPO	—	Not used (open)
43	XRST	O	Reset signal output to AN41020A
44	MTR-CTRL1	O	CD motor control 1 output
45	MTR-CTRL2	O	CD motor control 2 output
46	REC-A	I	Record tab switch for SIDE-A signal input
47	LED-DISC	O	DISC LED on/off signal output
48	BU UP/DW SW	I	BU up switch signal input
49	TBL-SENS	I	Table sensor signal input
50	REC-B	I	Record tab switch for SIDE-B signal input

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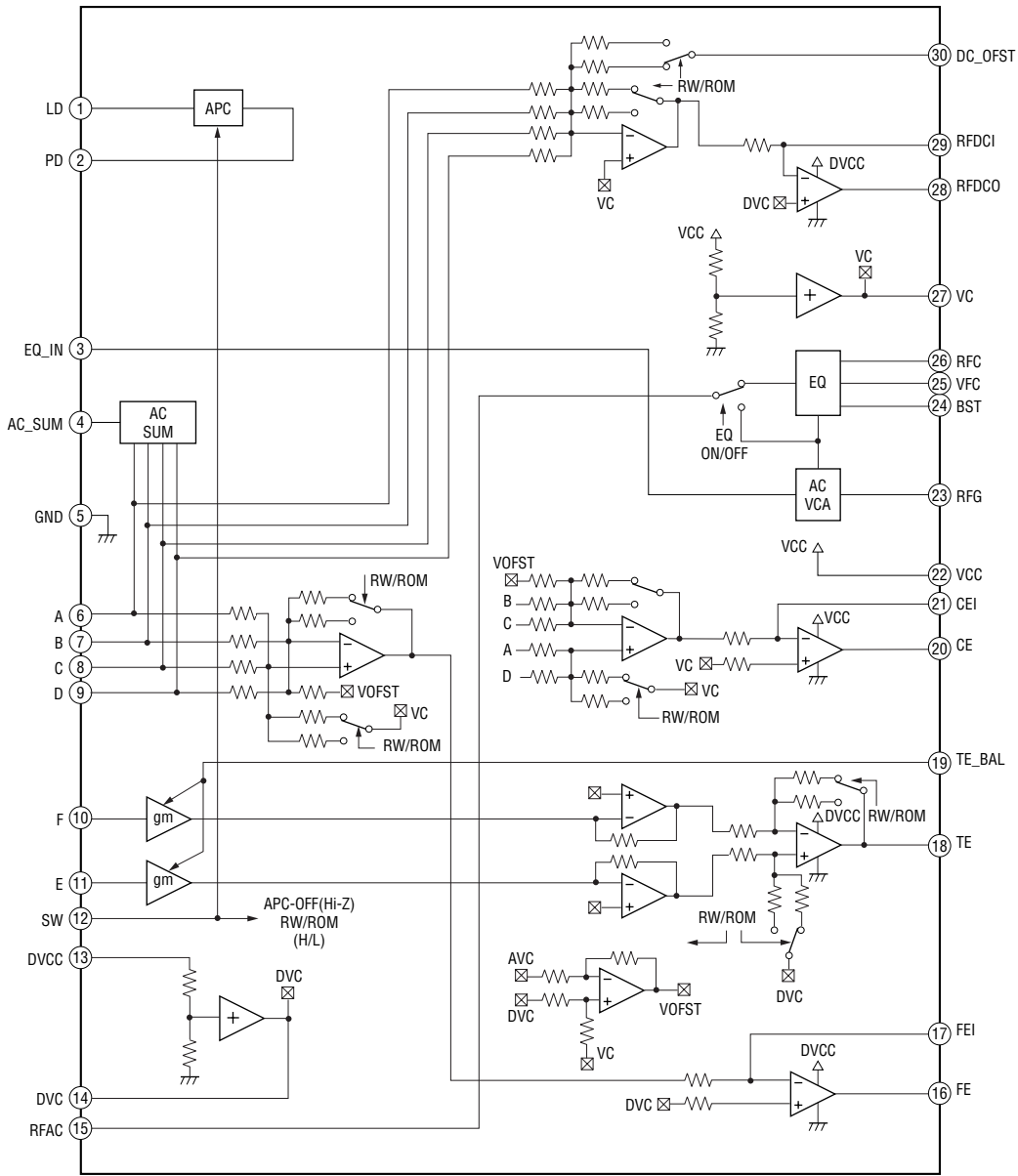
Pin No.	Pin Name	I/O	Discription
51	A-TRG	O	TCM-A trigger output
52	B-TRG	O	TCM-B Trigger output
53	AMS-IN	I	AMS signal input
54	ML-BUSY2	O	Not used (Connected to ground)
55	CAPM-CTRL	O	Capstan motor REV/FWD/STOP control signal output
56	A-PLAY SW	I	TCM-A play switch input
57	B-PLAY SW	I	TCM-B play switch input
58	TC-MUTE	O	TC line mute signal output
59	ML-WR	O	Not used
60	ML-RESET	O	Not used
61	REC-MUTE	O	REC mute signal output
62	VCC	—	Power supply (+3.3V)
63	SOFT-TEST	O	Not used (open)
64	VSS	—	Ground
65	BIAS	O	Bias on/off signal output
66	ML-MUTE	O	Not used
67	PB-A/B	O	TC A/B select signal output
68	ALC	O	ALC signal output
69	TC-RELAY	O	TC relay control signal output
70	A-HALF	I	A deck half detection signal input
71	AU-SEL0	O	Audio input select A signal output
72	AU-SEL1	O	Audio input select B signal output
73	KEY-DISPLAY	I	DISPLAY key signal input
74	KEY-POWER	I	POWER key signal input
75	LED-STBY	O	Standby LED driver signal output
76	VIDEO-MUTE	O	Video input select signal output
77	PL-LAT	O	Prologic sound control LAT signal
78	PL-DAT	O	Prologic sound control data
79	PL-CLK	O	Prologic sound control clock
80	EQIC-DAT	O	Serial data output to Audio EQIC (M61529)
81	EQIC-CLK	O	Serial data clock output to Audio EQIC (M61529)
82	LINE-MUTE	O	TA LINE mute signal output
83	STK-MUTE	O	Mute signal output to power IC
84	STBY-RELAY	O	Standby relay driver signal output
85	REAR-RELAY	O	Rear speaker relay driver signal output
86	HP-MUTE	O	Headphone mute signal output
87	FRONT-RELAY	O	Front speaker relay driver signal output and woofer mute signal
88	PROTECT	I	Speaker protection signal input
89	A-SHUT	I	TCM-A reel pulse input
90	B-SHUT	I	TCM-B reel pulse input
91	B-HALF	I	B deck half detection input
92	MODEL-IN	I	Model input
93	DEST-IN	I	Destination input
94	MIC-IN	O	Not used
95	HP-IN	I	Headphone detect input
96	AVSS	—	Ground
97	TEMP OUT	I	Temperature detect signal input
98	VREF	I	Reference voltage input
99	AVCC	—	Power supply (+3.3V)
100	V-SELB	I	Video input select signal output

• IC601 MB90M407APF-G-125-BND DISPLAY CONTROL (PANEL FL Board)

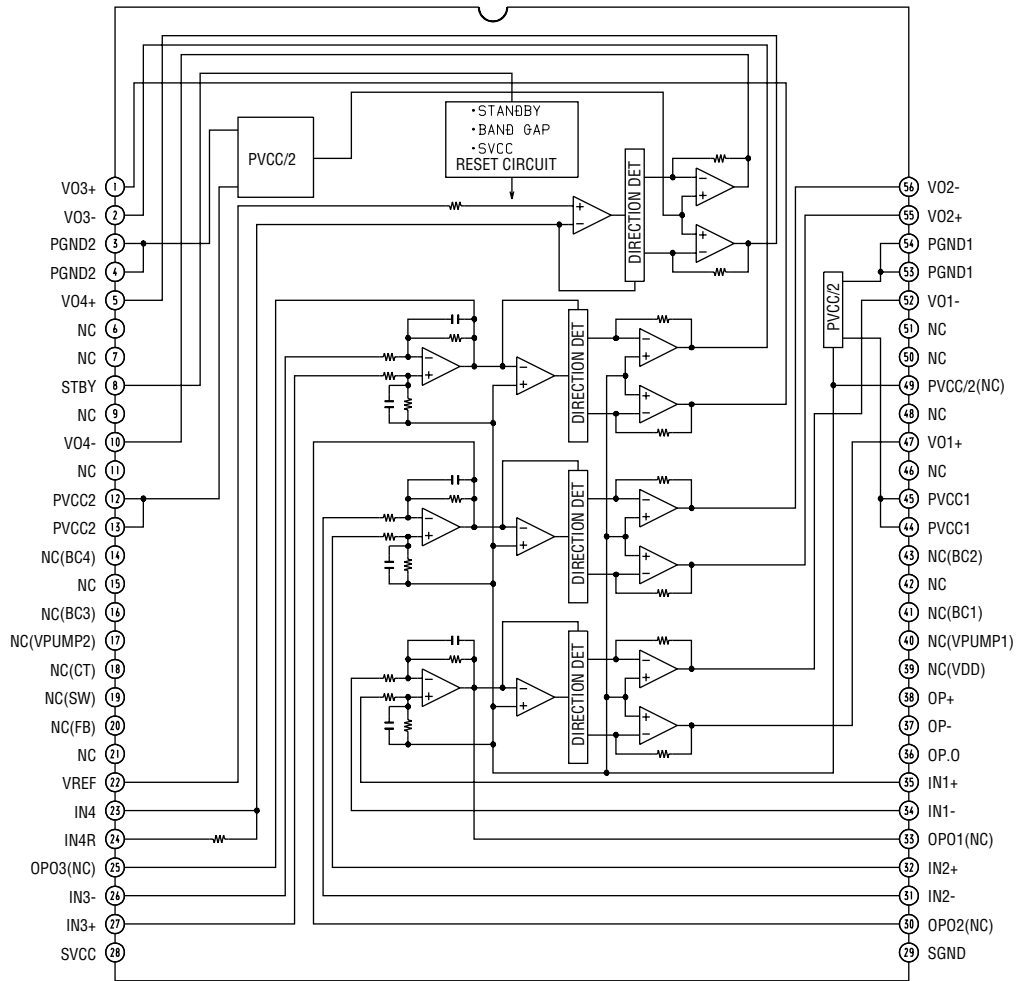
Pin No.	Pin Name	I/O	Description
1 to 10	GR-16 to GR-7	O	FLD grid output
11	VSS-IO	—	Ground
12 to 17	GR-6 to GR-1	O	FLD grid output
18 to 22	SEG-1 to SEG-5	O	FLD segment output
23	VDD-FIP	—	Power supply (+3.3V)
24 to 41	SEG-6 to SEG-23	O	FLD segment output
42	VSS-IO	—	Ground
43,44	SEG-24, SEG-25	O	FLD segment output
45 to 47	NO USE	O	Not used (open)
48	VKK	—	Power supply (-35V)
49	MD0	I	Not used (pull up with resistor)
50	MD1/VDD-VFT	I	Not used (pull up with resistor)
51	MD2	I	Not used (pull down with resistor)
52	D-SW	I	CD lid open/close detect signal input
53	NO USE	O	Not used (open)
54	SOFT TEST	O	Not used (open)
55	LED SELB	O	LED group B select signal output
56	VOL A	I	Volume encoder signal A input
57	VOL B	I	Volume encoder signal B input
58	NO USE	I	Not used (open)
59	NO USE	I	Not used (open)
60	I2C-DATA	O	IIC serial data output
61	I2C-CLOCK	O	IIC clock signal output
62	AVCC	—	Power supply (+3.3V)
63	AVSS	—	Ground
64 to 69	KEY0 to KEY5	I	Key input (A/D port)
70	BPF1-F02	I	Spectrum analyzer BPF signal input
71	BPF2-F03	I	Spectrum analyzer BPF signal input
72	BPF3-F04	I	Spectrum analyzer BPF signal input
73	BPF4-F05	I	Spectrum analyzer BPF signal input
74	BPF5-F06	I	Spectrum analyzer BPF signal input
75	ALL BAND	I	L+R signal input
76	LED-SCK	O	Serial clock output to LED driver
77	RESET	I	Reset input
78	LED-DAT	O	Serial data output to LED driver
79	LED-LATCH	O	Latch signal output to LED driver
80	LED-SELA	O	LED group A select signal output
81	VSS-CPU	—	Ground
82	XOUT	O	Crystal oscillator output (4MHz)
83	XIN	I	Crystal oscillator input (4MHz)
84	VCC-CPU	—	Power supply (+3.3V)
85 to 100	NO USED	O	Not used (open)

7-33. IC BLOCK DIAGRAMS

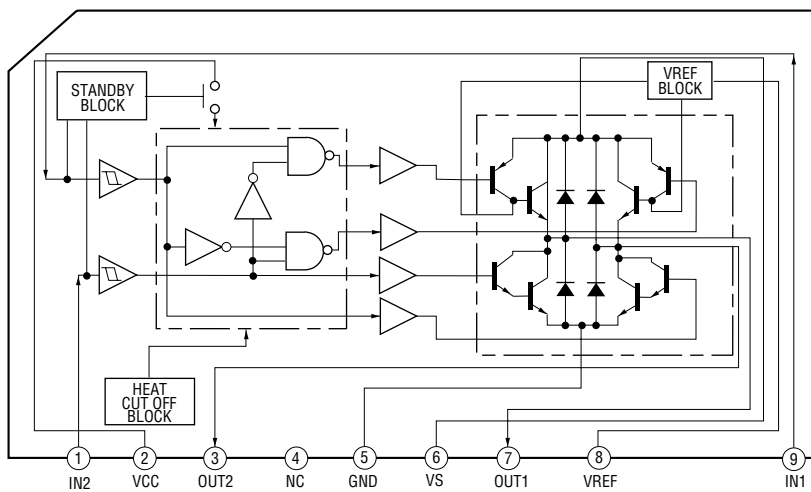
IC103 CXA2581N-T4 (BD BOARD)



IC102 AN41020A (BD BOARD)

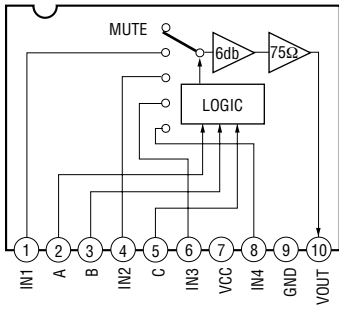


IC201 TA8409S (MOTOR BOARD)

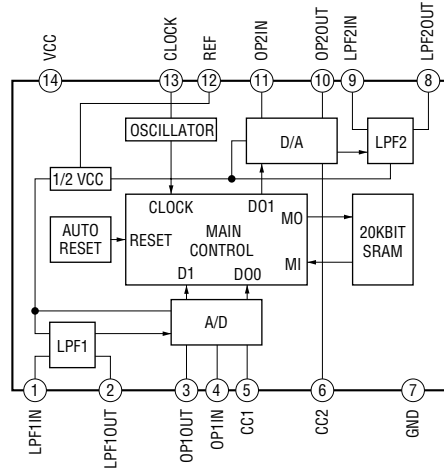


HCD-XGV11AV

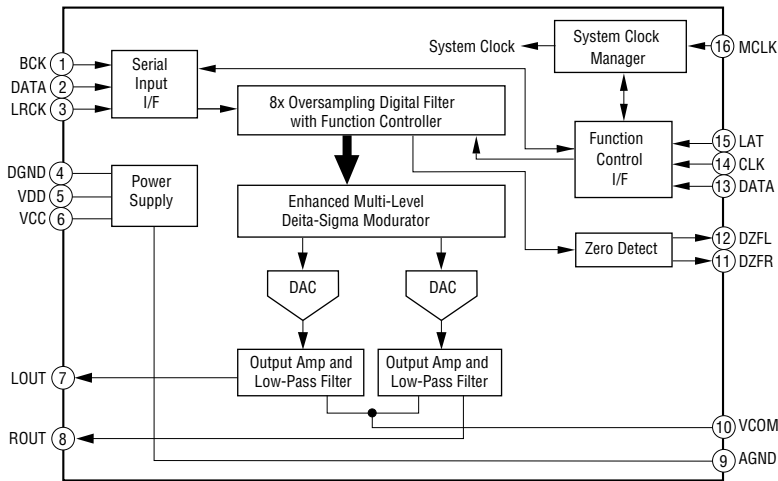
IC191 BA7615N (MAIN BOARD (1/4))



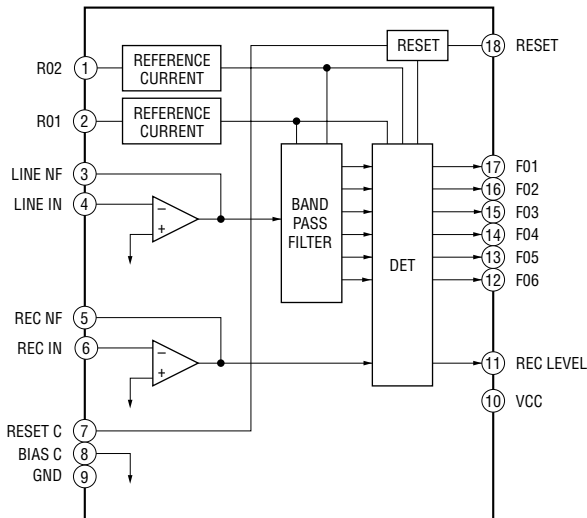
IC851 M65850P (MIC/GUITAR BOARD)



IC504 PCM1748E/2K (VIDEO BOARD)



IC603 BA3830F (PANEL FL BOARD)



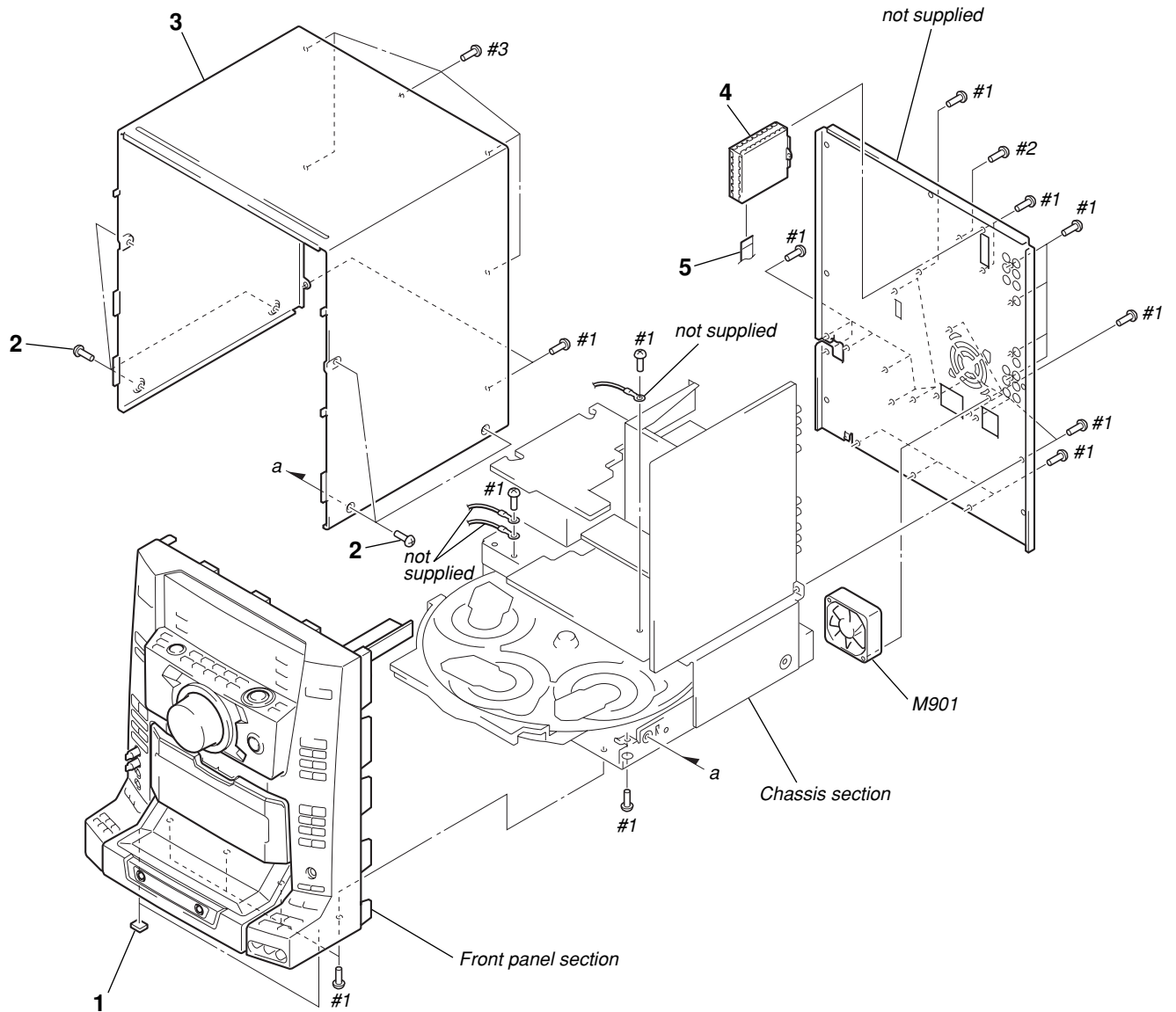
SECTION 8 EXPLODED VIEWS

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories are given in the last of this parts list.

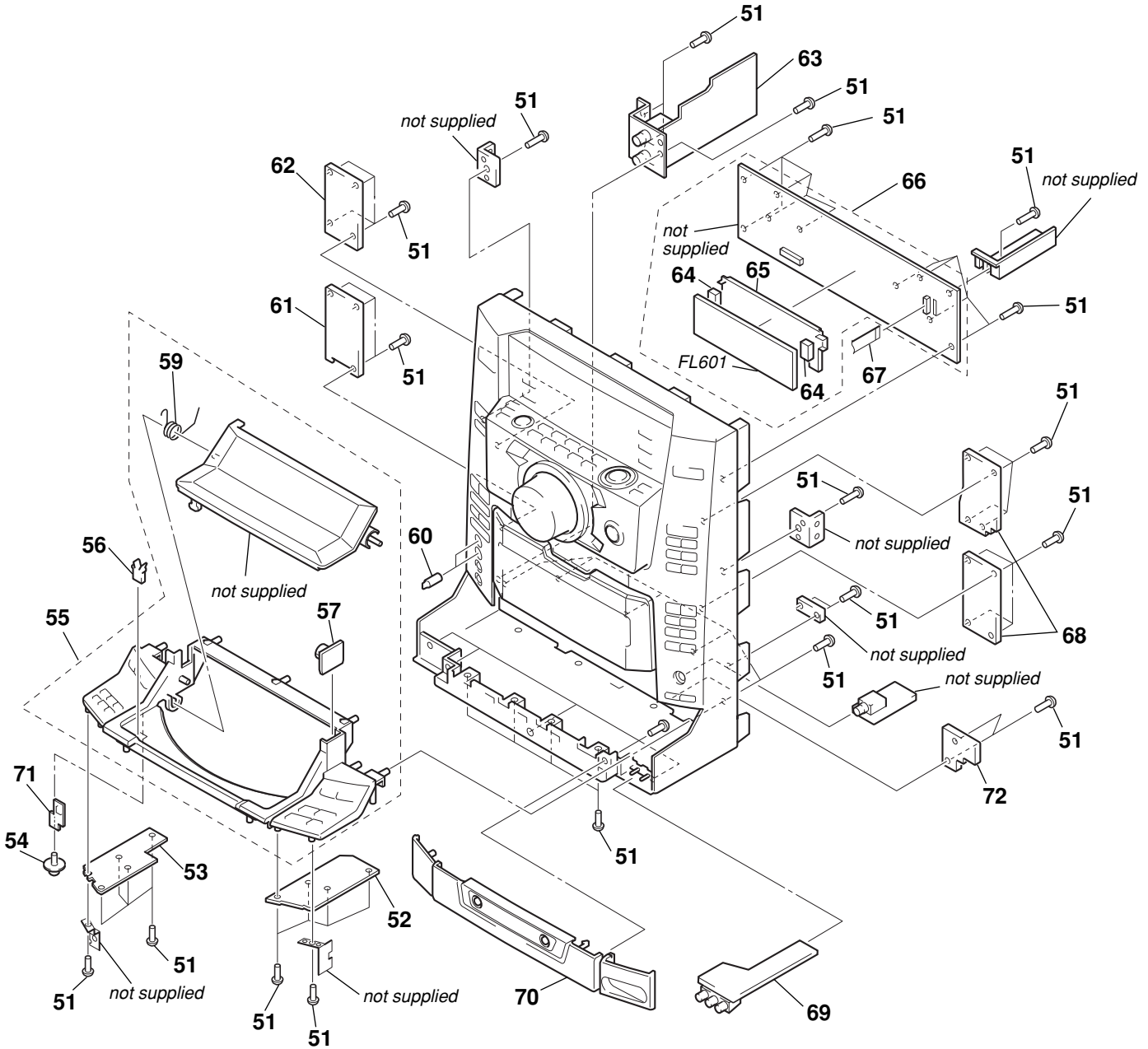
The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

8-1. CASE, BACK PANEL SECTION



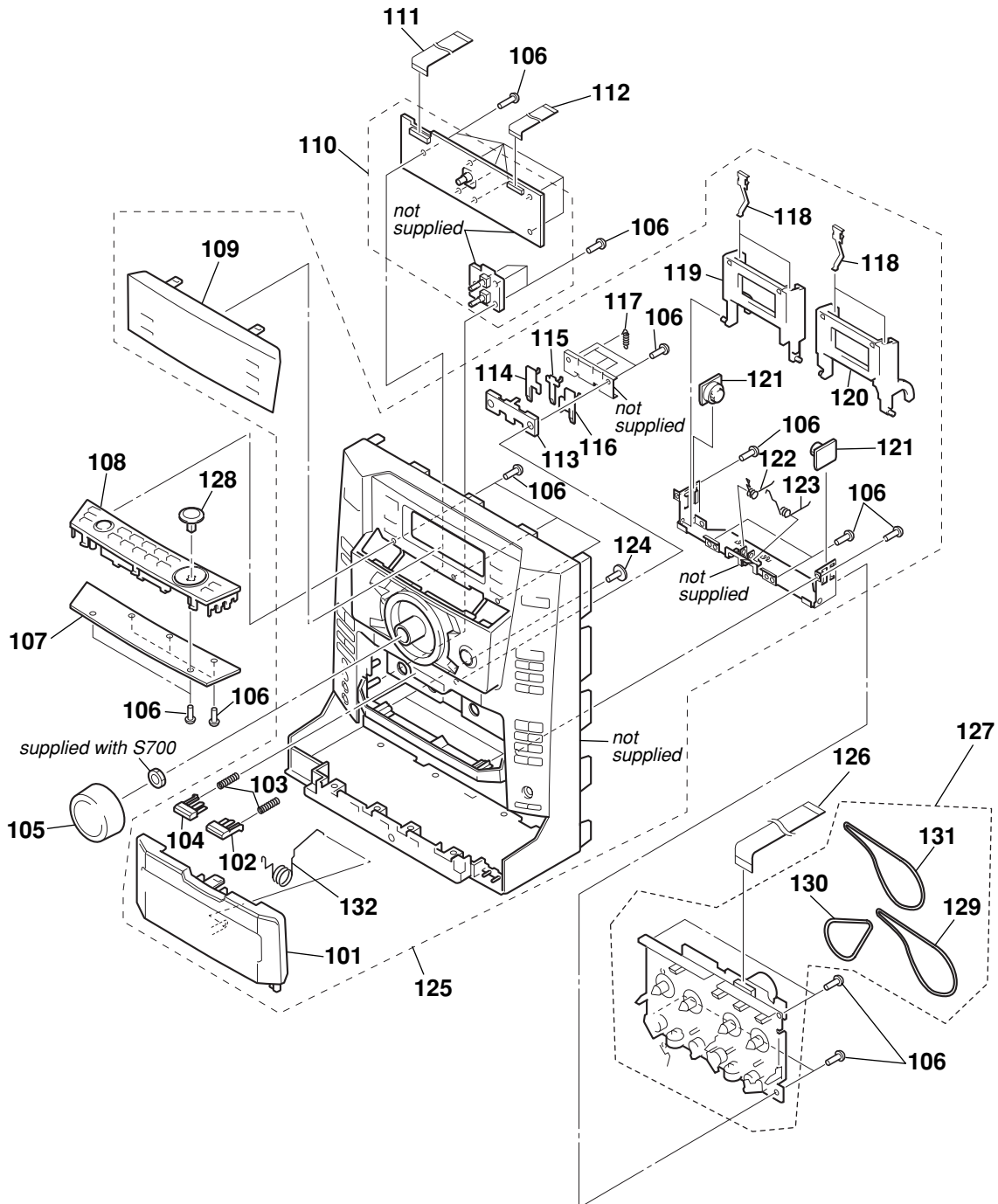
Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
1	4-948-236-01	CUSHION (107)		M901	1-763-072-11	FAN, DC	
2	3-363-099-01	SCREW (CASE 3 TP2)		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
3	4-237-661-11	CASE		#2	7-685-872-09	SCREW +BVTT 3X8 (S)	
4	1-693-603-41	TUNER (FM/AM)		#3	7-685-871-01	SCREW +BVTT 3X6 (S)	
5	1-769-945-11	WIRE (FLAT TYPE) (11 CORE)					

8-2. FRONT PANEL SECTION-1



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
51	4-951-620-01	SCREW (2.6X8), +BVTP		63	A-4732-065-A	MIC BOARD, COMPLETE	
52	1-687-266-11	CD-R BOARD		64	4-949-935-41	CUSHION (FL)	
53	1-687-265-11	CD-L BOARD		65	4-225-511-01	HOLDER FL TUBE	
54	4-227-899-01	SCREW (DIA. 12), FROATING		66	A-4732-037-A	PANEL FL BOARD, COMPLETE	
55	X-4955-802-A	SUB PANEL CD ASSY		67	1-773-114-11	WIRE (FLAT TYPE) (19 CORE) (150mm)	
56	4-040-472-01	LATCH, D.C.		68	A-4732-036-A	TUNER/TC-B BOARD, COMPLETE	
57	4-224-104-01	DAMPER		69	1-687-264-11	FRONT INPUT BOARD	
59	4-244-859-01	SPRING CD LID		70	X-4955-344-1	BUMPER ASSY	
60	4-237-635-03	KNOB (MIC)		71	1-687-267-11	DOOR SW BOARD	
61	1-687-256-11	TC-A BOARD		72	1-687-268-11	ALBUM BOARD	
62	1-687-255-11	GAME BOARD		FL601	1-518-794-11	INDICATOR TUBE, FLUORESCENT	

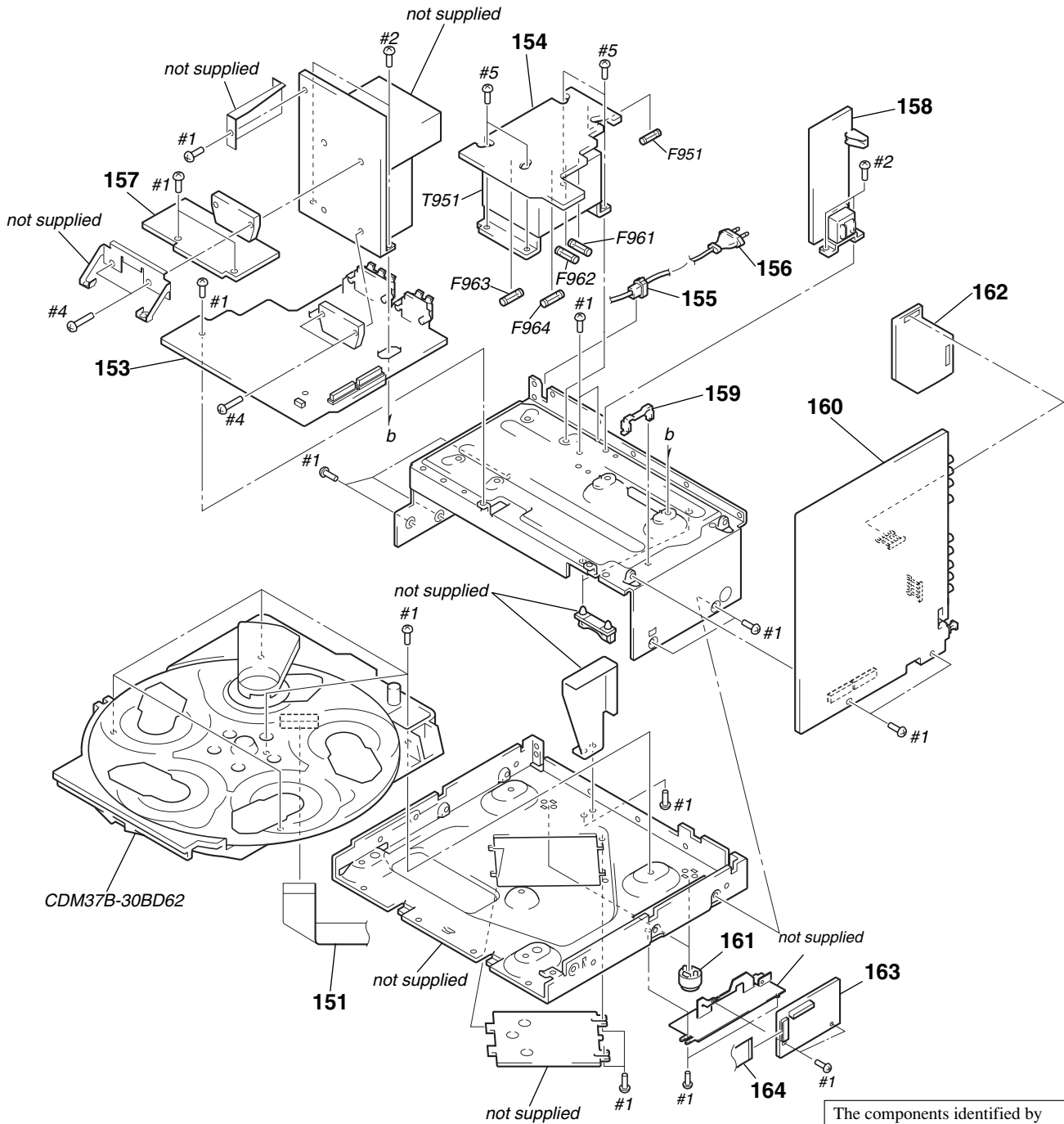
8-3. FRONT PANEL SECTION-2



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
101	X-4955-192-1	LID (TC) ASSY		117	4-226-889-01	SPRING (LEVER), TENSION COIL	
102	4-243-981-01	BUTTON (EJECT B)		118	4-959-229-11	DETENT, CASSETTE	
103	4-248-245-01	SPRING (TC-EJECT), COMPRESSION		119	4-243-969-01	HOLDER (TC L)	
104	4-243-975-01	BUTTON (EJECT A)		120	4-243-970-01	HOLDER (TC R)	
105	4-244-858-01	KNOB VOLUME		121	4-224-104-01	DAMPER	
106	4-951-620-01	SCREW (2.6X8), +BVTP		122	4-243-971-02	SPRING (TC L), TORSION	
107	A-4732-084-A	KEY BOARD, COMPLETE		123	4-243-977-02	SPRING (TC R), TORSION	
108	X-4955-335-1	OPERATION PANEL ASSY		124	4-227-899-01	SCREW (DIA. 12), FLOATING	
109	X-4955-457-1	WINDOW (FL) ASSY		125	X-4955-330-1	FRONT PANEL ASSY	
110	A-4732-062-A	PANEL VR BOARD, COMPLETE (including MIC VR BOARD)		126	1-769-986-11	WIRE (FLAT TYPE) (13 CORE) (270mm)	
111	1-773-108-11	WIRE (FLAT TYPE) (19 CORE) (100mm)		127	1-796-487-31	DECK, MECHANICAL (CWM43RR23)	
112	1-769-977-11	WIRE (FLAT TYPE) (13 CORE) (150mm)		128	4-244-861-01	CURSOR	
113	4-226-883-01	COVER (EJECT)		129	4-243-608-01	BELT (BR)	
114	4-226-880-01	LEVER (EJECT-A)		130	4-243-609-01	BELT (AF)	
115	4-226-882-01	LEVER (EJECT-C)		131	4-243-610-01	BELT (AL)	
116	4-226-881-01	LEVER (EJECT-B)		132	4-248-244-01	SPRING (TC LID)	

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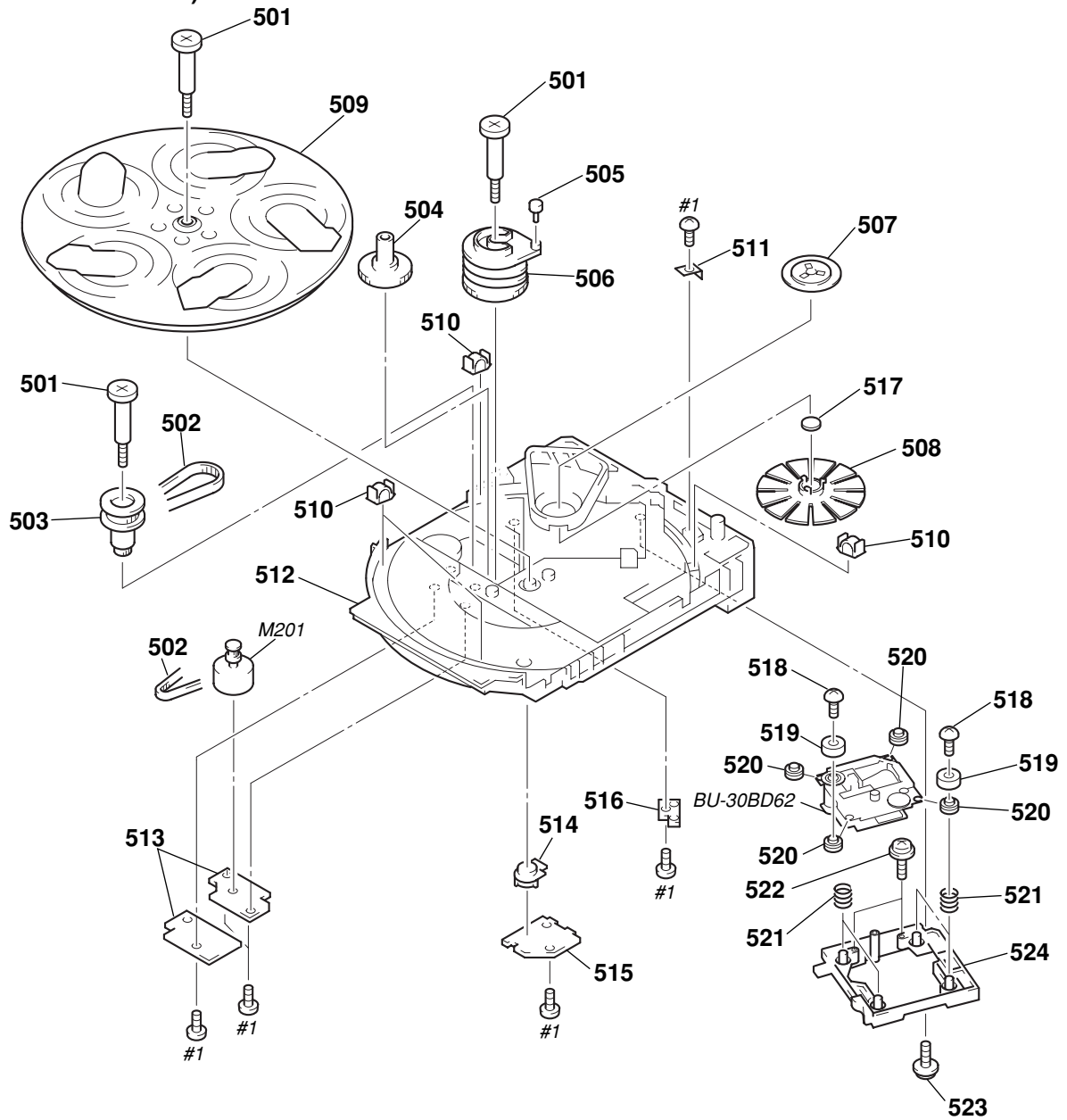
8-4. CHASSIS SECTION



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

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
151	1-925-122-81	WIRE (FLAT TYPE) (28 CORE)		164	1-925-122-71	WIRE (FLAT TYPE) (19 CORE)	
153	A-4732-086-A	PA BOARD, COMPLETE		Δ F951	1-532-506-31	FUSE (T6.3A/250V)	
154	1-687-270-11	TRANS BOARD		Δ F961	1-533-949-31	FUSE, CYLINDRICAL (TIME LUG) (T8.0A/250V)	
* 155	3-703-244-00	BUSHING (2104), CORD		Δ F962	1-533-949-31	FUSE, CYLINDRICAL (TIME LUG) (T8.0A/250V)	
Δ 156	1-777-071-53	CORD, POWER		Δ F963	1-532-506-31	FUSE (T6.3A/250V)	
157	A-4732-075-A	SUB AMP BOARD, COMPLETE		Δ F964	1-532-506-31	FUSE (T6.3A/250V)	
158	1-687-271-11	SUB TRANS BOARD		Δ T951	1-439-875-11	TRANSFORMER, POWER	
* 159	4-988-533-01	HOLDER, PWB		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
160	A-4732-088-A	MAIN BOARD, COMPLETE		#2	7-685-872-09	SCREW +BVTT 3X8 (S)	
161	X-494-122-81	FOOT (F22125H-M)		#4	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3	
162	A-4732-081-A	PROLOGIC BOARD, COMPLETE		#5	7-685-881-09	SCREW +BVTT 4X8 (S)	
163	A-4747-196-A	VIDEO BOARD, COMPLETE					

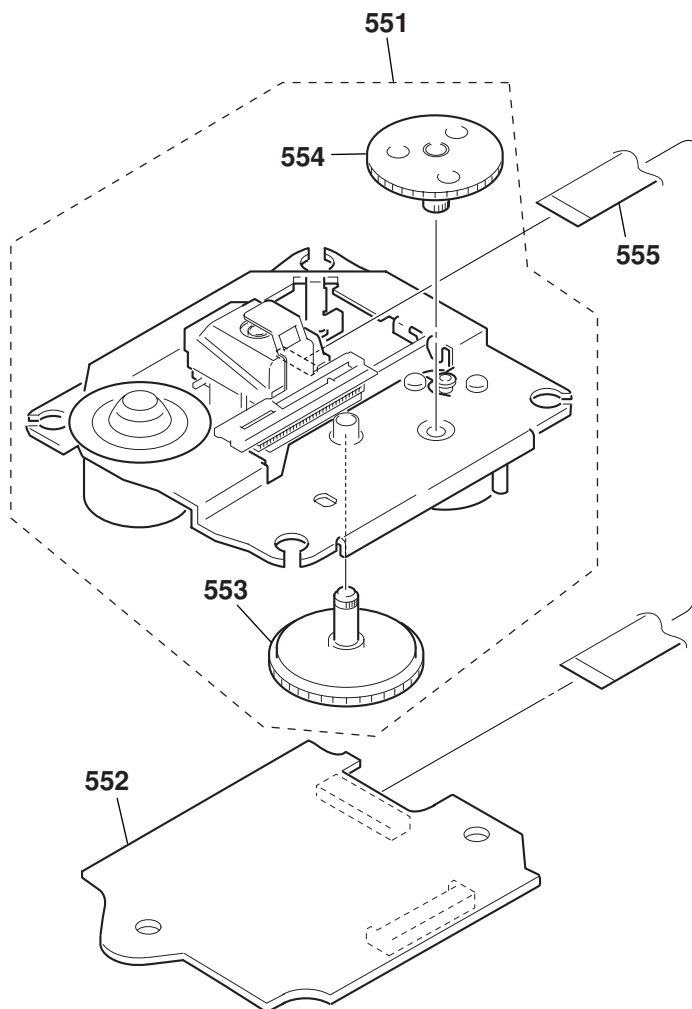
8-5. CD MECHANISM DECK SECTION
(CDM37B-30BD62)



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
501	4-987-976-01	SCREW, STEP		* 515	1-659-059-13	LED BOARD	
502	4-944-490-01	BELT (TIMING)		* 516	1-659-058-13	SENSOR BOARD	
503	A-4660-978-A	GEAR (PULLEY) ASSY		517	4-228-414-01	BRACKET (YOKE)	
504	4-978-421-01	GEAR (MID)		518	4-951-620-01	SCREW (2.6X8), +BVTP	
505	4-978-425-01	ROLLER (CAM)		519	4-231-151-01	STOPPER (BU)	
506	4-978-420-01	CAM (HOLDER)		520	4-231-451-11	INSULATOR (BU-30)	
507	4-237-981-02	PULLEY (B) (30), CHUCKING		521	4-227-045-11	SPRING (INSULATOR), COIL	
508	X-4953-307-1	PULLEY (A) ASSY, CHUCKING		522	4-227-899-01	SCREW (DIA. 12), FLOATING	
509	4-238-261-03	TABLE, DISK		523	4-998-716-01	SCREW, BU FITTING	
510	X-4947-960-1	ROLLER ASSY		524	X-4954-451-1	HOLDER (BU30) ASSY	
* 511	4-978-583-01	BRACKET (BU)		M201	A-4660-977-A	MOTOR ASSY	
512	4-238-260-02	CHASSIS		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
* 513	A-4673-765-A	MOTOR BOARD, COMPLETE					
514	4-978-426-01	INDICATOR (NO.)					

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8-6. BASE UNIT SECTION (BU-30BD62)



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

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
\triangle 551	A-4735-189-A	OP ASSY (A-MAX.3)		554	4-233-831-01	GEAR (LA)	
552	A-4728-371-A	BD BOARD, COMPLETE		555	1-782-817-11	WIRE (FLAT TYPE) (16 CORE)	
553	4-233-832-01	GEAR (LB)					

**SECTION 9
ELECTRICAL PARTS LIST**

ALBUM **BD**

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:
uF: μF
- RESISTORS
All resistors are in ohms.
METAL: metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F: nonflammable

- COILS
uH: μH
- SEMICONDUCTORS
In each case, u: μ, for example:
uA...: μA... , uPA... , μPA... ,
uPB... , μPB... , uPC... , μPC... ,
uPD... , μPD...

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

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

Ref. No.	Part No.	Description	Remarks
	1-687-268-11	ALBUM BOARD *****	
		< RESISTOR >	
R606	1-249-439-11	CARBON 68K 5%	1/4W
		< SWITCH >	
S606	1-762-875-21	SWITCH, KEYBOARD (ALBUM +)	
S607	1-762-875-21	SWITCH, KEYBOARD (ALBUM -)	

	A-4728-371-A	BD BOARD, COMPLETE *****	
		< CAPACITOR >	
C101	1-164-315-11	CERAMIC CHIP 470PF 5%	50V
C102	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C103	1-164-315-11	CERAMIC CHIP 470PF 5%	50V
C104	1-162-967-11	CERAMIC CHIP 0.0033uF 10%	50V
C107	1-162-921-11	CERAMIC CHIP 33PF 5%	50V
C108	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C109	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C110	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C111	1-126-607-11	ELECT CHIP 47uF 20%	4V
C112	1-126-607-11	ELECT CHIP 47uF 20%	4V
C113	1-126-209-11	ELECT CHIP 100uF 20%	4V
C114	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
C115	1-126-205-11	ELECT CHIP 47uF 20%	6.3V
C117	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C118	1-115-156-11	CERAMIC CHIP 1uF	10V
C119	1-115-156-11	CERAMIC CHIP 1uF	10V
C120	1-126-607-11	ELECT CHIP 47uF 20%	4V
C151	1-164-227-11	CERAMIC CHIP 0.022uF 10%	25V
C153	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C163	1-128-995-21	ELECT CHIP 100uF 20%	10V
C164	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C165	1-124-779-00	ELECT CHIP 10uF 20%	16V
C166	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C182	1-128-995-21	ELECT CHIP 100uF 20%	10V
C213	1-216-864-11	METAL CHIP 0 5%	1/10W
		< CONNECTOR >	
CN101	1-784-877-21	CONNECTOR,FFC(LIF(NON-ZIF))28P	
CN102	1-794-424-11	CONNECTOR, FCC/FPC 16P	

Ref. No.	Part No.	Description	Remarks
		< DIODE >	
D101	8-719-988-61	DIODE 1SS355TE-17	
		< IC >	
IC102	8-759-713-70	IC AN41020A	
IC103	8-752-089-74	IC CXA2581N-T4	
		< TRANSISTOR >	
Q101	8-729-049-31	TRANSISTOR 2SB710A-RTX	
Q102	8-729-424-08	TRANSISTOR UN2111-TX	
		< RESISTOR >	
R102	1-216-835-11	METAL CHIP 15K 5%	1/10W
R103	1-216-845-11	METAL CHIP 100K 5%	1/10W
R104	1-216-835-11	METAL CHIP 15K 5%	1/10W
R105	1-216-821-11	METAL CHIP 1K 5%	1/10W
R109	1-216-845-11	METAL CHIP 100K 5%	1/10W
R111	1-216-846-11	METAL CHIP 120K 5%	1/10W
R112	1-216-864-11	METAL CHIP 0 5%	1/10W
R113	1-216-826-11	METAL CHIP 2.7K 5%	1/10W
R114	1-216-841-11	METAL CHIP 47K 5%	1/10W
R117	1-216-841-11	METAL CHIP 47K 5%	1/10W
R118	1-216-864-11	METAL CHIP 0 5%	1/10W
R120	1-216-846-11	METAL CHIP 120K 5%	1/10W
R122	1-216-845-11	METAL CHIP 100K 5%	1/10W
R123	1-216-797-11	METAL CHIP 10 5%	1/10W
R124	1-216-797-11	METAL CHIP 10 5%	1/10W
R125	1-216-839-11	METAL CHIP 33K 5%	1/10W
R126	1-216-839-11	METAL CHIP 33K 5%	1/10W
R151	1-216-845-11	METAL CHIP 100K 5%	1/10W
R152	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R176	1-216-864-11	METAL CHIP 0 5%	1/10W
R179	1-216-833-11	METAL CHIP 10K 5%	1/10W
R227	1-216-845-11	METAL CHIP 100K 5%	1/10W
R228	1-216-853-11	METAL CHIP 470K 5%	1/10W
R229	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R231	1-216-821-11	METAL CHIP 1K 5%	1/10W
R234	1-216-864-11	METAL CHIP 0 5%	1/10W
R235	1-216-821-11	METAL CHIP 1K 5%	1/10W
R236	1-216-821-11	METAL CHIP 1K 5%	1/10W

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CD-L					CD-R					DOOR SW					FRONT INPUT					GAME					HEADPHONE					KEY				
Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description			Remarks																							
	1-687-265-11	CD-L BOARD *****						< SWITCH >																										
		< CONNECTOR >				S700	1-570-953-11	SWITCH, PUSH (1 KEY) (DOOR SW)			*****																							
* CN700	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P					1-687-264-11	FRONT INPUT BOARD *****																										
		< RESISTOR >						< CAPACITOR >																										
R700	1-249-421-11	CARBON	2.2K	5%	1/4W	F																												
R701	1-247-843-11	CARBON	3.3K	5%	1/4W		C501	1-162-294-31	CERAMIC	0.001uF	10%	50V																						
R702	1-249-425-11	CARBON	4.7K	5%	1/4W	F	C502	1-162-294-31	CERAMIC	0.001uF	10%	50V																						
R703	1-249-427-11	CARBON	6.8K	5%	1/4W	F	C503	1-115-871-11	ELECT	1uF	20%	50V																						
R704	1-249-429-11	CARBON	10K	5%	1/4W		C505	1-162-282-31	CERAMIC	100PF	10%	50V																						
		< SWITCH >						< JACK >																										
R705	1-249-431-11	CARBON	15K	5%	1/4W		J500	1-815-310-11	JACK 3P (GAME INPUT)																									
R706	1-249-433-11	CARBON	22K	5%	1/4W				< RESISTOR >																									
R707	1-249-435-11	CARBON	33K	5%	1/4W		R521	1-249-437-11	CARBON	47K	5%	1/4W																						
		< SWITCH >				S702	1-762-875-21	SWITCH, KEYBOARD (PLAY MODE)																										
S701	1-762-875-21	SWITCH, KEYBOARD (REPEAT)				S703	1-762-875-21	SWITCH, KEYBOARD (EDIT)																										
S702	1-762-875-21	SWITCH, KEYBOARD (PLAY MODE)				S704	1-762-875-21	SWITCH, KEYBOARD (DISC1)																										
S703	1-762-875-21	SWITCH, KEYBOARD (EDIT)				S705	1-762-875-21	SWITCH, KEYBOARD (DISC2)																										
S704	1-762-875-21	SWITCH, KEYBOARD (DISC1)						*****																										
S705	1-762-875-21	SWITCH, KEYBOARD (DISC2)						< DIODE >																										
		*****				S706	1-762-875-21	SWITCH, KEYBOARD (DISC3)																										
		*****				S707	1-762-875-21	SWITCH, KEYBOARD (DISC4)																										
		*****				S708	1-762-875-21	SWITCH, KEYBOARD (DISC5)																										
		*****				S709	1-762-875-21	SWITCH, KEYBOARD (DISC SKIP)																										
		*****						*****																										
	1-687-266-11	CD-R BOARD *****						*****																										
		< CONNECTOR >						< DIODE >																										
CN600	1-785-332-11	PIN, CONNECTOR (LIGHT ANGLE)6P				D501	8-719-058-03	DIODE SEL5423E-TP15 (GAME MIXING)																										
		< DIODE >				D504	8-719-058-03	DIODE SEL5423E-TP15 (GAME)																										
		< RESISTOR >						< RESISTOR >																										
		*****				R501	1-249-403-11	CARBON	68	5%	1/4W	F																						
		*****				R502	1-249-417-11	CARBON	1K	5%	1/4W	F																						
		*****				R511	1-249-403-11	CARBON	68	5%	1/4W	F																						
		*****						< SWITCH >																										
D600	8-719-056-13	DIODE SML79423C-TP15 (▶▶)				S501	1-762-875-21	SWITCH, KEYBOARD (GAME)																										
		< RESISTOR >				S502	1-762-875-21	SWITCH, KEYBOARD (GAME MIXING)																										
		*****						*****																										
R600	1-249-425-11	CARBON	4.7K	5%	1/4W	F		HEADPHONE BOARD																										
R601	1-249-427-11	CARBON	6.8K	5%	1/4W	F		*****																										
R602	1-249-429-11	CARBON	10K	5%	1/4W			< CAPACITOR >																										
R603	1-249-431-11	CARBON	15K	5%	1/4W		C891	1-162-294-31	CERAMIC	0.001uF	10%	50V																						
R604	1-249-433-11	CARBON	22K	5%	1/4W		C892	1-162-294-31	CERAMIC	0.001uF	10%	50V																						
		< SWITCH >						< JACK >																										
S600	1-762-875-21	SWITCH, KEYBOARD (▶▶▶)				J891	1-770-226-11	JACK (LARGE TYPE) (PHONES)																										
S601	1-762-875-21	SWITCH, KEYBOARD (▶▶▶)						< RESISTOR >																										
S602	1-762-875-21	SWITCH, KEYBOARD (▶▶▶)						*****																										
S603	1-762-875-21	SWITCH, KEYBOARD (▶▶▶)				R891	1-247-807-31	CARBON	100	5%	1/4W																							
S604	1-762-875-21	SWITCH, KEYBOARD (▶▶▶)						*****																										
		*****						*****																										
S605	1-762-875-21	SWITCH, KEYBOARD (▶▶▶)				A-4732-084-A	KEY BOARD, COMPLETE																											
		*****						*****																										
	1-687-267-11	DOOR SW BOARD *****						< CONNECTOR >																										
		< CAPACITOR >				CN801	1-563-616-11	CONNECTOR, FLEXIBLE 13P																										
C700	1-162-306-11	CERAMIC	0.01uF	30%	16V			*****																										

KEY	LED	MAIN
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Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
		< DIODE >		S811	1-762-875-21	SWITCH, KEYBOARD (TANGO)	
D801	8-719-058-03	DIODE SEL5423E-TP15 (POP)		S812	1-762-875-21	SWITCH, KEYBOARD (REGGAE)	
D802	8-719-058-03	DIODE SEL5423E-TP15 (GAME)		S813	1-762-875-21	SWITCH, KEYBOARD (SALSA)	
D803	8-719-058-03	DIODE SEL5423E-TP15 (DANCE)		S814	1-762-875-21	SWITCH, KEYBOARD (SURROUND)	
D804	8-719-058-03	DIODE SEL5423E-TP15 (MOVIE)		S815	1-762-875-21	SWITCH, KEYBOARD (KARAOKE/MPX)	
D805	8-719-058-03	DIODE SEL5423E-TP15 (JAZZ)		S816	1-762-875-21	SWITCH, KEYBOARD (PRO LOGIC)	
D806	8-719-058-03	DIODE SEL5423E-TP15 (TANGO)		S817	1-762-875-21	SWITCH, KEYBOARD (DVD5.1ch)	
D807	8-719-058-03	DIODE SEL5423E-TP15 (ROCK)		*****			
D808	8-719-058-03	DIODE SEL5423E-TP15 (REGGAE)		*	1-659-059-13	LED BOARD	
D809	8-719-058-03	DIODE SEL5423E-TP15 (SAMBA)				*****	
D810	8-719-058-03	DIODE SEL5423E-TP15 (SALSA)				< DIODE >	
D811	8-719-058-04	DIODE SEL5223S-TP15 (SURROUND)		D201	8-719-032-98	DIODE SEL5820A-TP15 (DISC No.)	
D812	8-719-058-04	DIODE SEL5223S-TP15 (KARAOKE/MPX)				< TRANSISTOR >	
D813	8-719-057-97	DIODE SEL5923A-TP15 (PRO LOGIC)		Q201	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
D814	8-719-057-97	DIODE SEL5923A-TP15 (DVD 5.1ch)				< RESISTOR >	
		< RESISTOR >		R201	1-249-433-11	CARBON 22K 5% 1/4W	
R801	1-249-415-11	CARBON 680 5% 1/4W F		R202	1-249-411-11	CARBON 330 5% 1/4W	
R802	1-249-417-11	CARBON 1K 5% 1/4W F		R203	1-249-437-11	CARBON 47K 5% 1/4W	
R803	1-249-419-11	CARBON 1.5K 5% 1/4W F		*****			
R804	1-249-419-11	CARBON 1.5K 5% 1/4W F		A-4732-088-A	MAIN BOARD, COMPLETE		
R805	1-249-421-11	CARBON 2.2K 5% 1/4W F				*****	
R806	1-247-843-11	CARBON 3.3K 5% 1/4W		4-229-123-01	HEAT SINK, V.OUT		
R807	1-249-425-11	CARBON 4.7K 5% 1/4W F		4-875-327-31	HEAT SINK		
R808	1-249-427-11	CARBON 6.8K 5% 1/4W F		4-948-236-01	CUSHION (107)		
R809	1-249-429-11	CARBON 10K 5% 1/4W		7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S		
R810	1-249-431-11	CARBON 15K 5% 1/4W				< CAPACITOR >	
R811	1-249-433-11	CARBON 22K 5% 1/4W		C110	1-126-795-11	ELECT 10uF 20% 50V	
R813	1-249-417-11	CARBON 1K 5% 1/4W F		C111	1-126-795-11	ELECT 10uF 20% 50V	
R814	1-249-419-11	CARBON 1.5K 5% 1/4W F		C112	1-126-795-11	ELECT 10uF 20% 50V	
R815	1-249-419-11	CARBON 1.5K 5% 1/4W F		C113	1-126-795-11	ELECT 10uF 20% 50V	
R816	1-249-421-11	CARBON 2.2K 5% 1/4W F		C114	1-126-795-11	ELECT 10uF 20% 50V	
R817	1-247-843-11	CARBON 3.3K 5% 1/4W		C115	1-126-795-11	ELECT 10uF 20% 50V	
R818	1-249-425-11	CARBON 4.7K 5% 1/4W F		C116	1-130-487-00	MYLAR 0.022uF 5% 50V	
R819	1-249-427-11	CARBON 6.8K 5% 1/4W F		C117	1-130-487-00	MYLAR 0.022uF 5% 50V	
R820	1-249-429-11	CARBON 10K 5% 1/4W		C118	1-126-795-11	ELECT 10uF 20% 50V	
R824	1-249-401-11	CARBON 47 5% 1/4W F		C119	1-130-489-00	MYLAR 0.033uF 5% 50V	
R825	1-249-401-11	CARBON 47 5% 1/4W F		C120	1-130-479-00	MYLAR 0.0047uF 5% 50V	
R826	1-249-401-11	CARBON 47 5% 1/4W F		C121	1-126-795-11	ELECT 10uF 20% 50V	
R827	1-249-401-11	CARBON 47 5% 1/4W F		C122	1-136-171-00	FILM 0.33uF 5% 50V	
R828	1-249-401-11	CARBON 47 5% 1/4W F		C123	1-136-171-00	FILM 0.33uF 5% 50V	
R829	1-249-401-11	CARBON 47 5% 1/4W F		C124	1-126-961-11	ELECT 2.2uF 20% 50V	
R830	1-249-401-11	CARBON 47 5% 1/4W F		C132	1-126-933-11	ELECT 100uF 20% 16V	
R831	1-249-401-11	CARBON 47 5% 1/4W F		C133	1-126-795-11	ELECT 10uF 20% 50V	
R832	1-249-401-11	CARBON 47 5% 1/4W F		C134	1-162-974-11	CERAMIC CHIP 0.01uF 50V	
R833	1-249-401-11	CARBON 47 5% 1/4W F		C135	1-124-589-11	ELECT 47uF 20% 16V	
R835	1-249-401-11	CARBON 47 5% 1/4W F		C136	1-126-795-11	ELECT 10uF 20% 50V	
R836	1-247-807-31	CARBON 100 5% 1/4W		C137	1-162-967-11	CERAMIC CHIP 0.0033uF 10% 50V	
R837	1-247-807-31	CARBON 100 5% 1/4W		C139	1-126-964-11	ELECT 10uF 20% 50V	
		< SWITCH >		C160	1-126-795-11	ELECT 10uF 20% 50V	
S800	1-786-528-11	SWITCH, ROTARY (ENTER)		C161	1-126-795-11	ELECT 10uF 20% 50V	
S801	1-762-875-21	SWITCH, KEYBOARD (SAMBA)		C162	1-126-795-11	ELECT 10uF 20% 50V	
S802	1-762-875-21	SWITCH, KEYBOARD (ROCK)		C163	1-126-795-11	ELECT 10uF 20% 50V	
S803	1-762-875-21	SWITCH, KEYBOARD (JAZZ)		C164	1-126-795-11	ELECT 10uF 20% 50V	
S804	1-762-875-21	SWITCH, KEYBOARD (DANCE)		C165	1-126-795-11	ELECT 10uF 20% 50V	
S805	1-762-875-21	SWITCH, KEYBOARD (POP)		C166	1-130-487-00	MYLAR 0.022uF 5% 50V	
S806	1-762-875-21	SWITCH, KEYBOARD (P.FILE)		C167	1-130-487-00	MYLAR 0.022uF 5% 50V	
S807	1-762-875-21	SWITCH, KEYBOARD (EFFECT)					
S809	1-762-875-21	SWITCH, KEYBOARD (GAME)					
S810	1-762-875-21	SWITCH, KEYBOARD (MOVIE)					

HCD-XGV11AV

MAIN

Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description			Remarks
C168	1-126-795-11	ELECT	10uF	20%	50V	C407	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C169	1-130-489-00	MYLAR	0.033uF	5%	50V	C408	1-126-916-11	ELECT	1000uF	20%	6.3V
C170	1-130-479-00	MYLAR	0.0047uF	5%	50V	C410	1-126-935-11	ELECT	470uF	20%	10V
C171	1-126-795-11	ELECT	10uF	20%	50V	C414	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C172	1-136-171-00	FILM	0.33uF	5%	50V						
C173	1-136-171-00	FILM	0.33uF	5%	50V	C415	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C174	1-126-961-11	ELECT	2.2uF	20%	50V	C416	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C181	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C431	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C182	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C510	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C183	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C511	1-162-945-11	CERAMIC CHIP	22PF	5%	50V
C191	1-162-974-11	CERAMIC CHIP	0.01uF		50V	C512	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C192	1-126-964-11	ELECT	10uF	20%	50V	C516	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C193	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C562	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C301	1-130-483-00	MYLAR	0.01uF	5%	50V	C563	1-126-947-11	ELECT	47uF	20%	16V
C302	1-126-964-11	ELECT	10uF	20%	50V	C598	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C303	1-136-165-00	FILM	0.1uF	5%	50V	C599	1-126-947-11	ELECT	47uF	20%	16V
C304	1-126-964-11	ELECT	10uF	20%	50V	C601	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C305	1-126-960-11	ELECT	1uF	20%	50V	C602	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C306	1-126-961-11	ELECT	2.2uF	20%	50V	C603	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C307	1-126-947-11	ELECT	47uF	20%	16V	C604	1-126-961-11	ELECT	2.2uF	20%	50V
C308	1-164-392-11	CERAMIC CHIP	390PF	10%	50V	C605	1-130-479-00	MYLAR	0.0047uF	5%	50V
C309	1-164-392-11	CERAMIC CHIP	390PF	10%	50V	C606	1-130-473-00	MYLAR	0.0015uF	5%	50V
C310	1-126-964-11	ELECT	10uF	20%	50V	C607	1-136-159-00	FILM	0.033uF	5%	50V
C311	1-126-933-11	ELECT	100uF	20%	16V	C608	1-126-964-11	ELECT	10uF	20%	50V
C312	1-126-964-11	ELECT	10uF	20%	50V	C609	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C313	1-126-964-11	ELECT	10uF	20%	50V	C610	1-126-933-11	ELECT	100uF	20%	16V
C319	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	C611	1-126-947-11	ELECT	47uF	20%	16V
C320	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	C612	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C321	1-126-947-11	ELECT	47uF	20%	16V	C613	1-126-947-11	ELECT	47uF	20%	16V
C322	1-130-471-00	MYLAR	0.001uF	5%	50V	C651	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C331	1-137-350-11	MYLAR	0.015uF	5%	50V	C652	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C332	1-130-479-00	MYLAR	0.0047uF	5%	50V	C653	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C333	1-130-479-00	MYLAR	0.0047uF	5%	50V	C654	1-126-961-11	ELECT	2.2uF	20%	50V
C334	1-137-395-91	MYLAR	0.022uF	5%	100V	C655	1-130-479-00	MYLAR	0.0047uF	5%	50V
C338	1-126-947-11	ELECT	47uF	20%	16V	C656	1-130-473-00	MYLAR	0.0015uF	5%	50V
C341	1-126-961-11	ELECT	2.2uF	20%	50V	C657	1-136-159-00	FILM	0.033uF	5%	50V
C342	1-130-489-00	MYLAR	0.033uF	5%	50V	C658	1-126-964-11	ELECT	10uF	20%	50V
C343	1-162-949-11	CERAMIC CHIP	47PF	5%	50V	C701	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C344	1-126-960-11	ELECT	1uF	20%	50V	C702	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C345	1-162-949-11	CERAMIC CHIP	47PF	5%	50V	C703	1-126-964-11	ELECT	10uF	20%	50V
C346	1-126-956-91	ELECT	0.1uF	20%	50V	C704	1-126-964-11	ELECT	10uF	20%	50V
C347	1-126-956-91	ELECT	0.1uF	20%	50V	C711	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C348	1-126-933-11	ELECT	100uF	20%	16V	C712	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C351	1-130-483-00	MYLAR	0.01uF	5%	50V	C713	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C352	1-126-964-11	ELECT	10uF	20%	50V	C714	1-126-964-11	ELECT	10uF	20%	50V
C353	1-136-165-00	FILM	0.1uF	5%	50V	C721	1-126-960-11	ELECT	1uF	20%	50V
C354	1-126-964-11	ELECT	10uF	20%	50V	C722	1-126-926-11	ELECT	1000uF	20%	10V
C355	1-126-960-11	ELECT	1uF	20%	50V	C723	1-109-889-11	ELECT	1uF	20%	50V
C356	1-126-961-11	ELECT	2.2uF	20%	50V	C724	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C357	1-126-947-11	ELECT	47uF	20%	16V	C731	1-126-964-11	ELECT	10uF	20%	50V
C358	1-164-392-11	CERAMIC CHIP	390PF	10%	50V	C732	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C359	1-164-392-11	CERAMIC CHIP	390PF	10%	50V	C733	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C366	1-130-471-00	MYLAR	0.001uF	5%	50V	C751	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C381	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	C752	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C382	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	C753	1-126-964-11	ELECT	10uF	20%	50V
C401	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C754	1-126-964-11	ELECT	10uF	20%	50V
C402	1-126-916-11	ELECT	1000uF	20%	6.3V	C761	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C403	1-126-964-11	ELECT	10uF	20%	50V	C762	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C404	1-126-964-11	ELECT	10uF	20%	50V	C763	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C405	1-162-953-11	CERAMIC CHIP	100PF	5%	50V	C764	1-126-964-11	ELECT	10uF	20%	50V
C406	1-162-953-11	CERAMIC CHIP	100PF	5%	50V	C771	1-164-156-11	CERAMIC CHIP	0.1uF		25V
						C772	1-164-156-11	CERAMIC CHIP	0.1uF		25V

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
C773	1-164-156-11	CERAMIC CHIP	0.1uF 25V	D807	8-719-988-61	DIODE 1SS355TE-17	
C774	1-164-156-11	CERAMIC CHIP	0.1uF 25V	D808	8-719-988-61	DIODE 1SS355TE-17	
C775	1-164-156-11	CERAMIC CHIP	0.1uF 25V	D809	8-719-210-33	DIODE EC10DS2	
C776	1-164-156-11	CERAMIC CHIP	0.1uF 25V	D810	8-719-210-33	DIODE EC10DS2	
C801	1-126-964-11	ELECT	10uF 20% 50V	D811	8-719-988-61	DIODE 1SS355TE-17	
C802	1-136-165-00	FILM	0.1uF 5% 50V	D815	8-719-988-61	DIODE 1SS355TE-17	
C803	1-136-165-00	FILM	0.1uF 5% 50V	D911	8-719-210-33	DIODE EC10DS2	
C804	1-126-916-11	ELECT	1000uF 20% 6.3V	D912	8-719-210-33	DIODE EC10DS2	
C806	1-109-953-11	ELECT	2.2uF 20% 50V	D913	8-719-210-33	DIODE EC10DS2	
C807	1-126-963-11	ELECT	4.7uF 10% 20V	D914	8-719-069-54	DIODE UdzSTE-175.1B	
C901	1-111-235-61	ELECT	10000uF 20% 25V	D915	8-719-069-54	DIODE UdzSTE-175.1B	
C902	1-164-156-11	CERAMIC CHIP	0.1uF 25V	D916	8-719-069-54	DIODE UdzSTE-175.1B	
C903	1-126-935-11	ELECT	470uF 20% 16V	D961	8-719-210-33	DIODE EC10DS2	
C911	1-126-941-11	ELECT	470uF 20% 25V	D962	8-719-210-33	DIODE EC10DS2	
C912	1-126-935-11	ELECT	470uF 20% 16V	D963	8-719-210-33	DIODE EC10DS2	
C913	1-126-947-11	ELECT	47uF 20% 16V	D964	8-719-210-33	DIODE EC10DS2	
C914	1-126-933-11	ELECT	100uF 20% 16V	D965	8-719-210-33	DIODE EC10DS2	
C915	1-126-933-11	ELECT	100uF 20% 16V			< FERRITE BEAD >	
C921	1-126-768-11	ELECT	2200uF 20% 16V	FB402	1-414-772-11	FERRITE 0UH	
C922	1-164-156-11	CERAMIC CHIP	0.1uF 25V	FB403	1-414-772-11	FERRITE 0UH	
C924	1-126-917-11	ELECT	3300uF 20% 6.3V	FB516	1-414-772-11	FERRITE 0UH	
C925	1-164-156-11	CERAMIC CHIP	0.1uF 25V	FB562	1-414-772-11	FERRITE 0UH	
C926	1-126-935-11	ELECT	470uF 20% 6.3V	FB599	1-414-772-11	FERRITE 0UH	
C927	1-126-933-11	ELECT	100uF 20% 16V			< IC >	
C928	1-126-961-11	ELECT	2.2uF 20% 50V	IC111	6-703-650-01	IC M61529FP-T60G	
C929	1-126-947-11	ELECT	47uF 20% 25V	IC181	8-759-009-06	IC MC14052BFEL	
C930	1-126-933-11	ELECT	100uF 20% 16V	IC191	8-759-571-53	IC BA7615N	
C961	1-164-156-11	CERAMIC CHIP	0.1uF 25V	IC301	6-702-130-01	IC HA12237F	
		< CONNECTOR >		IC501	6-802-674-01	IC M30620MCN-A21FP	
CN151	1-770-863-11	CONNECTOR, BOARD TO BOARD 10P		IC601	8-759-100-96	IC NJM4558M-TE2	
CN152	1-770-863-11	CONNECTOR, BOARD TO BOARD 10P		IC801	8-759-532-64	IC M62703SL-Tp	
CN321	1-691-770-11	PLUG (MICRO CONNECTOR) 8P		IC912	6-703-610-01	IC RT8H015C-T112-1	
CN371	1-784-774-11	CONNECTOR, FFC 13P		IC921	8-759-039-69	IC uPC7805AHF	
CN401	1-784-780-11	CONNECTOR, FFC 19P		IC922	6-701-760-01	IC uPC3504AHF	
CN411	1-785-321-11	PIN, CONNECTOR (STRAIGHT) 9P		IC931	8-759-701-59	IC TA7809S	
CN431	1-784-780-11	CONNECTOR, FFC 19P				< JACK >	
CN441	1-568-830-11	CONNECTOR, FFC 11P		J701	1-774-411-11	JACK, PIN 6P (PHONO/MD(VIDEO))	
CN721	1-564-505-11	PLUG, CONNECTOR 2P		J711	1-779-599-11	JACK, PIN 6P (DVD INPUT)	
* CN801	1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P		J721	1-518-043-11	JACK, PIN 2P (VIDEO OUT/DVD INPUT)	
CN901	1-778-982-21	CONNECTOR, BOARD TO BOARD 13P		J731	1-770-377-31	JACK, PIN 1P (SUB WOOFER OUT)	
CN902	1-778-982-21	CONNECTOR, BOARD TO BOARD 13P				< JUMPER RESISTOR >	
CN903	1-785-315-11	PIN, CONNECTOR (STRAIGHT) 3P		JR1	1-216-295-91	SHORT CHIP 0	
CN961	1-564-506-11	PLUG, CONNECTOR 3P		JR2	1-216-295-91	SHORT CHIP 0	
		< DIODE >		JR3	1-216-295-91	SHORT CHIP 0	
D161	8-719-988-61	DIODE 1SS355TE-17		JR4	1-216-295-91	SHORT CHIP 0	
D162	8-719-988-61	DIODE 1SS355TE-17		JR5	1-216-295-91	SHORT CHIP 0	
D191	8-719-988-61	DIODE 1SS355TE-17		JR6	1-216-295-91	SHORT CHIP 0	
D192	8-719-988-61	DIODE 1SS355TE-17		JR7	1-216-295-91	SHORT CHIP 0	
D381	8-719-988-61	DIODE 1SS355TE-17		JR8	1-216-295-91	SHORT CHIP 0	
D382	8-719-988-61	DIODE 1SS355TE-17		JR10	1-216-295-91	SHORT CHIP 0	
D383	8-719-988-61	DIODE 1SS355TE-17		JR11	1-216-296-11	SHORT CHIP 0	
D384	8-719-988-61	DIODE 1SS355TE-17		JR12	1-216-295-91	SHORT CHIP 0	
D431	8-719-988-61	DIODE 1SS355TE-17		JR13	1-216-296-11	SHORT CHIP 0	
D801	8-719-988-61	DIODE 1SS355TE-17		JR14	1-216-295-91	SHORT CHIP 0	
D802	8-719-988-61	DIODE 1SS355TE-17		JR16	1-216-295-91	SHORT CHIP 0	
D803	8-719-988-61	DIODE 1SS355TE-17		JR17	1-216-296-11	SHORT CHIP 0	
D804	8-719-988-61	DIODE 1SS355TE-17		JR18	1-216-296-11	SHORT CHIP 0	
D805	8-719-988-61	DIODE 1SS355TE-17					
D806	8-719-988-61	DIODE 1SS355TE-17					

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MAIN

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
JR19	1-216-295-91	SHORT CHIP	0	Q344	8-729-119-78	TRANSISTOR 2SC2785-HFE	
JR22	1-216-295-91	SHORT CHIP	0	Q381	8-729-140-04	TRANSISTOR 2SB1116A-L	
JR23	1-216-295-91	SHORT CHIP	0	Q382	8-729-029-86	TRANSISTOR DTC124ESA	
JR24	1-216-295-91	SHORT CHIP	0	Q383	8-729-140-04	TRANSISTOR 2SB1116A-L	
JR25	1-216-295-91	SHORT CHIP	0	Q384	8-729-029-86	TRANSISTOR DTC124ESA	
JR26	1-216-296-11	SHORT CHIP	0	Q385	8-729-116-59	TRANSISTOR 2SB1068TP	
JR29	1-216-295-91	SHORT CHIP	0	Q386	8-729-029-86	TRANSISTOR DTC124ESA	
JR30	1-216-296-11	SHORT CHIP	0	Q401	8-729-141-30	TRANSISTOR 2SC3623A-LK	
JR32	1-216-295-91	SHORT CHIP	0	Q402	8-729-141-30	TRANSISTOR 2SC3623A-LK	
JR35	1-216-296-11	SHORT CHIP	0	Q411	8-729-029-86	TRANSISTOR DTC124ESA	
JR36	1-216-296-11	SHORT CHIP	0	Q412	8-729-029-86	TRANSISTOR DTC124ESA	
JR39	1-216-295-91	SHORT CHIP	0	Q611	8-729-620-05	TRANSISTOR 2SC2603-EF	
JR40	1-216-295-91	SHORT CHIP	0	Q701	8-729-141-30	TRANSISTOR 2SC3623A-LK	
JR42	1-216-296-11	SHORT CHIP	0	Q731	8-729-141-30	TRANSISTOR 2SC3623A-LK	
JR44	1-216-295-91	SHORT CHIP	0	Q751	8-729-141-30	TRANSISTOR 2SC3623A-LK	
JR45	1-216-296-11	SHORT CHIP	0	Q801	8-729-620-05	TRANSISTOR 2SC2603-EF	
JR46	1-216-296-11	SHORT CHIP	0	Q802	8-729-029-86	TRANSISTOR DTC124ESA	
JR47	1-216-295-91	SHORT CHIP	0	Q803	8-729-029-40	TRANSISTOR DTA124ESA	
JR301	1-216-295-91	SHORT CHIP	0	Q804	8-729-029-40	TRANSISTOR DTA124ESA	
JR303	1-216-295-91	SHORT CHIP	0	Q805	8-729-029-40	TRANSISTOR DTA124ESA	
JR322	1-216-296-11	SHORT CHIP	0	Q806	8-729-029-86	TRANSISTOR DTC124ESA	
JR323	1-216-295-91	SHORT CHIP	0	Q807	8-729-029-86	TRANSISTOR DTC124ESA	
JR324	1-216-296-11	SHORT CHIP	0	Q808	8-729-029-86	TRANSISTOR DTC124ESA	
JR325	1-216-295-91	SHORT CHIP	0	Q809	8-729-029-86	TRANSISTOR DTC124ESA	
JR333	1-216-295-91	SHORT CHIP	0	Q810	8-729-029-40	TRANSISTOR DTA124ESA	
JR350	1-216-295-91	SHORT CHIP	0	Q911	8-729-209-15	TRANSISTOR 2SD2012	
JR351	1-216-295-91	SHORT CHIP	0	Q918	8-729-620-05	TRANSISTOR 2SC2603-EF	
JR353	1-216-295-91	SHORT CHIP	0	Q921	8-729-140-97	TRANSISTOR 2SB734-34	
JR360	1-216-295-91	SHORT CHIP	0	Q922	8-729-029-86	TRANSISTOR DTC124ESA	
JR404	1-216-295-91	SHORT CHIP	0	Q923	8-729-620-05	TRANSISTOR 2SC2603-EF	
JR405	1-216-295-91	SHORT CHIP	0	Q961	8-729-620-05	TRANSISTOR 2SC2603-EF	
JR406	1-216-295-91	SHORT CHIP	0	Q962	8-729-140-04	TRANSISTOR 2SB1116A-L	
JR407	1-216-295-91	SHORT CHIP	0			< RESISTOR >	
JR414	1-216-295-91	SHORT CHIP	0				
JR723	1-216-295-91	SHORT CHIP	0	R111	1-216-825-11	METAL CHIP 2.2K	5% 1/10W
		< COIL >		R112	1-216-833-11	METAL CHIP 10K	5% 1/10W
				R115	1-216-835-11	METAL CHIP 15K	5% 1/10W
				R118	1-216-833-11	METAL CHIP 10K	5% 1/10W
L301	1-412-032-11	INDUCTOR CHIP 100uH		R119	1-216-817-11	METAL CHIP 470	5% 1/10W
		< TRANSISTOR >		R120	1-216-295-91	SHORT CHIP	0
Q114	8-729-141-30	TRANSISTOR 2SC3623A-LK		R122	1-216-825-11	METAL CHIP 2.2K	5% 1/10W
Q115	8-729-620-05	TRANSISTOR 2SC2603-EF		R124	1-216-833-11	METAL CHIP 10K	5% 1/10W
Q164	8-729-141-30	TRANSISTOR 2SC3623A-LK		R125	1-216-833-11	METAL CHIP 10K	5% 1/10W
Q165	8-729-620-05	TRANSISTOR 2SC2603-EF		R127	1-216-811-11	METAL CHIP 150	5% 1/10W
Q166	8-729-029-40	TRANSISTOR DTA124ESA		R132	1-216-839-11	METAL CHIP 33K	5% 1/10W
Q167	8-729-620-05	TRANSISTOR 2SC2603-EF		R135	1-216-295-91	SHORT CHIP	0
Q181	8-729-029-86	TRANSISTOR DTC124ESA		R136	1-216-295-91	SHORT CHIP	0
Q182	8-729-029-86	TRANSISTOR DTC124ESA		R140	1-216-845-11	METAL CHIP 100K	5% 1/10W
Q321	8-729-029-86	TRANSISTOR DTC124ESA		R141	1-216-845-11	METAL CHIP 100K	5% 1/10W
Q322	8-729-119-76	TRANSISTOR 2SA1175-HFE		R142	1-216-833-11	METAL CHIP 10K	5% 1/10W
Q323	8-729-119-78	TRANSISTOR 2SC2785-HFE		R143	1-216-833-11	METAL CHIP 10K	5% 1/10W
Q324	8-729-119-78	TRANSISTOR 2SC2785-HFE		R161	1-216-825-11	METAL CHIP 2.2K	5% 1/10W
Q325	8-729-119-78	TRANSISTOR 2SC2785-HFE		R162	1-216-833-11	METAL CHIP 10K	5% 1/10W
Q326	8-729-119-78	TRANSISTOR 2SC2785-HFE		R165	1-216-835-11	METAL CHIP 15K	5% 1/10W
Q327	8-729-029-86	TRANSISTOR DTC124ESA		R168	1-216-833-11	METAL CHIP 10K	5% 1/10W
Q331	8-729-142-46	TRANSISTOR 2SC2001-LK		R169	1-216-817-11	METAL CHIP 470	5% 1/10W
Q334	8-729-029-86	TRANSISTOR DTC124ESA		R170	1-216-295-91	SHORT CHIP	0
Q335	8-729-140-04	TRANSISTOR 2SB1116A-L		R172	1-216-825-11	METAL CHIP 2.2K	5% 1/10W
Q341	8-729-119-78	TRANSISTOR 2SC2785-HFE		R174	1-216-833-11	METAL CHIP 10K	5% 1/10W
Q342	8-729-119-78	TRANSISTOR 2SC2785-HFE		R176	1-216-837-11	METAL CHIP 22K	5% 1/10W
Q343	8-729-029-86	TRANSISTOR DTC124ESA		R177	1-216-811-11	METAL CHIP 150	5% 1/10W

Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description			Remarks
R179	1-216-833-11	METAL CHIP	10K	5%	1/10W	R389	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R181	1-216-833-11	METAL CHIP	10K	5%	1/10W	R390	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R182	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R301	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R401	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R302	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R402	1-216-833-11	METAL CHIP	10K	5%	1/10W
R304	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R403	1-216-833-11	METAL CHIP	10K	5%	1/10W
R305	1-216-841-11	METAL CHIP	47K	5%	1/10W	R404	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R308	1-216-837-11	METAL CHIP	22K	5%	1/10W	R405	1-216-833-11	METAL CHIP	10K	5%	1/10W
R309	1-216-857-11	METAL CHIP	1M	5%	1/10W	R406	1-216-833-11	METAL CHIP	10K	5%	1/10W
R310	1-216-833-11	METAL CHIP	10K	5%	1/10W	R407	1-216-295-91	SHORT CHIP	0		
R311	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R408	1-216-295-91	SHORT CHIP	0		
R314	1-216-837-11	METAL CHIP	22K	5%	1/10W	R410	1-216-295-91	SHORT CHIP	0		
R315	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R412	1-216-835-11	METAL CHIP	15K	5%	1/10W
R320	1-216-833-11	METAL CHIP	10K	5%	1/10W	R413	1-216-833-11	METAL CHIP	10K	5%	1/10W
R321	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R414	1-216-833-11	METAL CHIP	10K	5%	1/10W
R322	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R477	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R323	1-216-833-11	METAL CHIP	10K	5%	1/10W	R501	1-216-833-11	METAL CHIP	10K	5%	1/10W
R324	1-216-295-91	SHORT CHIP	0			R502	1-216-809-11	METAL CHIP	100	5%	1/10W
R326	1-216-833-11	METAL CHIP	10K	5%	1/10W	R503	1-216-809-11	METAL CHIP	100	5%	1/10W
R330	1-216-837-11	METAL CHIP	22K	5%	1/10W	R504	1-216-809-11	METAL CHIP	100	5%	1/10W
R331	1-216-837-11	METAL CHIP	22K	5%	1/10W	R505	1-216-833-11	METAL CHIP	10K	5%	1/10W
R333	1-216-833-11	METAL CHIP	10K	5%	1/10W	R509	1-216-833-11	METAL CHIP	10K	5%	1/10W
R334	1-216-797-11	METAL CHIP	10	5%	1/10W	R511	1-216-851-11	METAL CHIP	330K	5%	1/10W
R335	1-216-837-11	METAL CHIP	22K	5%	1/10W	R513	1-216-295-91	SHORT CHIP	0		
R336	1-216-814-11	METAL CHIP	270	5%	1/10W	R516	1-216-833-11	METAL CHIP	10K	5%	1/10W
R337	1-216-833-11	METAL CHIP	10K	5%	1/10W	R517	1-216-833-11	METAL CHIP	10K	5%	1/10W
R338	1-216-833-11	METAL CHIP	10K	5%	1/10W	R518	1-216-809-11	METAL CHIP	100	5%	1/10W
R339	1-216-833-11	METAL CHIP	10K	5%	1/10W	R519	1-216-809-11	METAL CHIP	100	5%	1/10W
R340	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R521	1-216-809-11	METAL CHIP	100	5%	1/10W
R341	1-216-857-11	METAL CHIP	1M	5%	1/10W	R522	1-216-809-11	METAL CHIP	100	5%	1/10W
R342	1-216-821-11	METAL CHIP	1K	5%	1/10W	R523	1-216-809-11	METAL CHIP	100	5%	1/10W
R343	1-216-853-11	METAL CHIP	470K	5%	1/10W	R525	1-216-809-11	METAL CHIP	100	5%	1/10W
R344	1-216-833-11	METAL CHIP	10K	5%	1/10W	R527	1-216-809-11	METAL CHIP	100	5%	1/10W
R345	1-216-853-11	METAL CHIP	470K	5%	1/10W	R529	1-216-809-11	METAL CHIP	100	5%	1/10W
R346	1-216-833-11	METAL CHIP	10K	5%	1/10W	R530	1-216-809-11	METAL CHIP	100	5%	1/10W
R347	1-216-849-11	METAL CHIP	220K	5%	1/10W	R531	1-216-833-11	METAL CHIP	10K	5%	1/10W
R348	1-216-817-11	METAL CHIP	470	5%	1/10W	R532	1-216-809-11	METAL CHIP	100	5%	1/10W
R349	1-216-849-11	METAL CHIP	220K	5%	1/10W	R533	1-216-809-11	METAL CHIP	100	5%	1/10W
R350	1-216-817-11	METAL CHIP	470	5%	1/10W	R534	1-216-809-11	METAL CHIP	100	5%	1/10W
R351	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R535	1-216-809-11	METAL CHIP	100	5%	1/10W
R352	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R536	1-216-809-11	METAL CHIP	100	5%	1/10W
R354	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R537	1-216-809-11	METAL CHIP	100	5%	1/10W
R355	1-216-841-11	METAL CHIP	47K	5%	1/10W	R540	1-216-841-11	METAL CHIP	47K	5%	1/10W
R358	1-216-833-11	METAL CHIP	10K	5%	1/10W	R541	1-216-809-11	METAL CHIP	100	5%	1/10W
R361	1-216-833-11	METAL CHIP	10K	5%	1/10W	R543	1-216-809-11	METAL CHIP	100	5%	1/10W
R364	1-216-837-11	METAL CHIP	22K	5%	1/10W	R547	1-216-809-11	METAL CHIP	100	5%	1/10W
R365	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R548	1-216-809-11	METAL CHIP	100	5%	1/10W
R371	1-216-833-11	METAL CHIP	10K	5%	1/10W	R549	1-216-833-11	METAL CHIP	10K	5%	1/10W
R372	1-216-833-11	METAL CHIP	10K	5%	1/10W	R551	1-216-833-11	METAL CHIP	10K	5%	1/10W
R374	1-216-833-11	METAL CHIP	10K	5%	1/10W	R552	1-216-833-11	METAL CHIP	10K	5%	1/10W
R375	1-216-833-11	METAL CHIP	10K	5%	1/10W	R556	1-216-809-11	METAL CHIP	100	5%	1/10W
R377	1-216-833-11	METAL CHIP	10K	5%	1/10W	R563	1-216-809-11	METAL CHIP	100	5%	1/10W
R378	1-216-833-11	METAL CHIP	10K	5%	1/10W	R549	1-216-833-11	METAL CHIP	10K	5%	1/10W
R381	1-216-819-11	METAL CHIP	680	5%	1/10W	R570	1-216-809-11	METAL CHIP	100	5%	1/10W
R382	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R571	1-216-835-11	METAL CHIP	15K	5%	1/10W
R383	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R572	1-216-835-11	METAL CHIP	15K	5%	1/10W
R384	1-216-819-11	METAL CHIP	680	5%	1/10W	R573	1-216-809-11	METAL CHIP	100	5%	1/10W
R385	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R574	1-216-809-11	METAL CHIP	100	5%	1/10W
R386	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R575	1-216-809-11	METAL CHIP	100	5%	1/10W
R387	1-216-841-11	METAL CHIP	47K	5%	1/10W	R577	1-216-809-11	METAL CHIP	100	5%	1/10W
R388	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R578	1-216-809-11	METAL CHIP	100	5%	1/10W
						R579	1-216-809-11	METAL CHIP	100	5%	1/10W

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MAIN **MIC**

Ref. No.	Part No.	Description	Quantity	Percentage	Remarks	Ref. No.	Part No.	Description	Quantity	Percentage	Remarks
R580	1-216-809-11	METAL CHIP	100	5%	1/10W	R732	1-216-821-11	METAL CHIP	1K	5%	1/10W
R581	1-216-809-11	METAL CHIP	100	5%	1/10W	R733	1-216-845-11	METAL CHIP	100K	5%	1/10W
R582	1-216-833-11	METAL CHIP	10K	5%	1/10W	R734	1-216-821-11	METAL CHIP	1K	5%	1/10W
R583	1-216-809-11	METAL CHIP	100	5%	1/10W	R751	1-216-821-11	METAL CHIP	1K	5%	1/10W
R584	1-216-809-11	METAL CHIP	100	5%	1/10W	R752	1-216-845-11	METAL CHIP	100K	5%	1/10W
R585	1-216-809-11	METAL CHIP	100	5%	1/10W	R753	1-216-821-11	METAL CHIP	1K	5%	1/10W
R586	1-216-809-11	METAL CHIP	100	5%	1/10W	R754	1-216-845-11	METAL CHIP	100K	5%	1/10W
R587	1-216-809-11	METAL CHIP	100	5%	1/10W	R755	1-216-833-11	METAL CHIP	10K	5%	1/10W
R588	1-216-809-11	METAL CHIP	100	5%	1/10W	R756	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R589	1-216-809-11	METAL CHIP	100	5%	1/10W	R757	1-216-857-11	METAL CHIP	1M	5%	1/10W
R590	1-216-809-11	METAL CHIP	100	5%	1/10W	R761	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R591	1-216-809-11	METAL CHIP	100	5%	1/10W	R762	1-216-833-11	METAL CHIP	10K	5%	1/10W
R592	1-216-819-11	METAL CHIP	680	5%	1/10W	R763	1-218-866-11	METAL CHIP	6.2K	0.5%	1/10W
R593	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R764	1-216-833-11	METAL CHIP	10K	5%	1/10W
R594	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R765	1-216-821-11	METAL CHIP	1K	0.5%	1/10W
R595	1-216-809-11	METAL CHIP	100	5%	1/10W	R766	1-216-833-11	METAL CHIP	10K	5%	1/10W
R596	1-216-295-91	SHORT CHIP	0			R801	1-216-813-11	METAL CHIP	220	5%	1/10W
R597	1-216-841-11	METAL CHIP	47K	5%	1/10W	R802	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R598	1-216-841-11	METAL CHIP	47K	5%	1/10W	R803	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R599	1-216-833-11	METAL CHIP	10K	5%	1/10W	R804	1-216-841-11	METAL CHIP	47K	5%	1/10W
R600	1-216-833-11	METAL CHIP	10K	5%	1/10W	R805	1-216-841-11	METAL CHIP	47K	5%	1/10W
R601	1-216-821-11	METAL CHIP	1K	5%	1/10W	R806	1-216-833-11	METAL CHIP	10K	5%	1/10W
R602	1-216-821-11	METAL CHIP	1K	5%	1/10W	R807	1-216-821-11	METAL CHIP	1K	5%	1/10W
R603	1-216-841-11	METAL CHIP	47K	5%	1/10W	R808	1-216-845-11	METAL CHIP	100K	5%	1/10W
R604	1-216-821-11	METAL CHIP	1K	5%	1/10W	R809	1-216-845-11	METAL CHIP	100K	5%	1/10W
R605	1-216-854-11	METAL CHIP	560K	5%	1/10W	R810	1-216-845-11	METAL CHIP	100K	5%	1/10W
R606	1-216-841-11	METAL CHIP	47K	5%	1/10W	R811	1-216-833-11	METAL CHIP	10K	5%	1/10W
R607	1-216-821-11	METAL CHIP	1K	5%	1/10W	R812	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R608	1-216-845-11	METAL CHIP	100K	5%	1/10W	R813	1-216-833-11	METAL CHIP	10K	5%	1/10W
R609	1-216-813-11	METAL CHIP	220	5%	1/10W	R814	1-216-837-11	METAL CHIP	22K	5%	1/10W
R611	1-216-821-11	METAL CHIP	1K	5%	1/10W	R815	1-216-837-11	METAL CHIP	22K	5%	1/10W
R612	1-216-821-11	METAL CHIP	1K	5%	1/10W	R816	1-216-845-11	METAL CHIP	100K	5%	1/10W
R613	1-216-815-11	METAL CHIP	330	5%	1/10W	R911	1-215-863-11	METAL OXIDE	100	5%	1W
R614	1-216-821-11	METAL CHIP	1K	5%	1/10W	R912	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R615	1-216-809-11	METAL CHIP	100	5%	1/10W	R921	1-216-833-11	METAL CHIP	10K	5%	1/10W
R651	1-216-821-11	METAL CHIP	1K	5%	1/10W	R922	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R652	1-216-821-11	METAL CHIP	1K	5%	1/10W	R923	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R653	1-216-841-11	METAL CHIP	47K	5%	1/10W	R924	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R654	1-216-821-11	METAL CHIP	1K	5%	1/10W	R961	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R655	1-216-854-11	METAL CHIP	560K	5%	1/10W	R962	1-216-836-11	METAL CHIP	18K	5%	1/10W
R656	1-216-841-11	METAL CHIP	47K	5%	1/10W	R963	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R657	1-216-821-11	METAL CHIP	1K	5%	1/10W			< TRANSFORMER >			
R658	1-216-845-11	METAL CHIP	100K	5%	1/10W	T331	1-437-220-11	TRANSFORMER, BIAS OSCILLATION			
R701	1-216-821-11	METAL CHIP	1K	5%	1/10W			< VIBRATOR >			
R702	1-216-845-11	METAL CHIP	100K	5%	1/10W	X501	1-567-098-41	VIBRATOR, CRYSTAL (32.768kHz)			
R703	1-216-821-11	METAL CHIP	1K	5%	1/10W	X502	1-781-107-21	VIBRATOR, SERAMIC (16MHz)			
R704	1-216-845-11	METAL CHIP	100K	5%	1/10W	*****					
R705	1-216-833-11	METAL CHIP	10K	5%	1/10W	A-4732-065-A	MIC BOARD, COMPLETE				
R706	1-216-825-11	METAL CHIP	2.2K	5%	1/10W			< CAPACITOR >			
R707	1-216-857-11	METAL CHIP	1M	5%	1/10W	C801	1-162-306-11	CERAMIC	0.01uF	30%	16V
R711	1-216-832-11	METAL CHIP	8.2K	5%	1/10W	C802	1-162-306-11	CERAMIC	0.01uF	30%	16V
R712	1-216-833-11	METAL CHIP	10K	5%	1/10W	C803	1-126-960-11	ELECT	1uF	20%	50V
R713	1-218-866-11	METAL CHIP	6.2K	0.5%	1/10W	C804	1-126-959-11	ELECT	0.47uF	20%	50V
R714	1-216-833-11	METAL CHIP	10K	5%	1/10W	C805	1-162-294-31	CERAMIC	0.001uF	10%	50V
R715	1-218-866-11	METAL CHIP	6.2K	0.5%	1/10W	C806	1-162-215-31	CERAMIC	47PF	5%	50V
R716	1-216-833-11	METAL CHIP	10K	5%	1/10W	C810	1-162-288-31	CERAMIC	330PF	10%	50V
R721	1-218-285-11	METAL CHIP	75	5%	1/10W						
R722	1-216-805-11	METAL CHIP	47	5%	1/10W						
R723	1-218-285-11	METAL CHIP	75	5%	1/10W						
R724	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R731	1-216-833-11	METAL CHIP	10K	5%	1/10W						

						MIC		MOTOR		PA	
Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description			Remarks
C817	1-126-961-11	ELECT	2.2uF	20%	50V	R859	1-249-433-11	CARBON	22K	5%	1/4W
C818	1-162-215-31	CERAMIC	47PF	5%	50V	R860	1-249-433-11	CARBON	22K	5%	1/4W
C819	1-162-215-31	CERAMIC	47PF	5%	50V						
C820	1-126-957-11	ELECT	0.22uF	20%	50V	R861	1-247-881-00	CARBON	120K	5%	1/4W
C821	1-126-947-11	ELECT	47uF	20%	16V	R862	1-249-433-11	CARBON	22K	5%	1/4W
C822	1-126-767-11	ELECT	1000uF	20%	16V	R863	1-249-433-11	CARBON	22K	5%	1/4W
C823	1-126-947-11	ELECT	47uF	20%	16V	R864	1-249-433-11	CARBON	22K	5%	1/4W
C824	1-126-961-11	ELECT	2.2uF	20%	50V	R865	1-249-437-11	CARBON	47K	5%	1/4W
C825	1-161-494-00	CERAMIC	0.022uF		25V	R866	1-249-431-11	CARBON	15K	5%	1/4W
C826	1-126-947-11	ELECT	47uF	20%	16V	R867	1-249-421-11	CARBON	2.2K	5%	1/4W F
C827	1-162-294-31	CERAMIC	0.001uF	10%	50V	R874	1-249-429-11	CARBON	10K	5%	1/4W
C828	1-136-495-11	FILM	0.068uF	5%	50V	R875	1-247-807-31	CARBON	100	5%	1/4W
C829	1-126-959-11	ELECT	0.47uF	20%	50V	R876	1-249-417-11	CARBON	1K	5%	1/4W F
C830	1-126-959-11	ELECT	0.47uF	20%	50V	R877	1-249-411-11	CARBON	330	5%	1/4W
C831	1-162-305-11	CERAMIC	0.0068uF	30%	16V	R878	1-249-417-11	CARBON	1K	5%	1/4W F
C832	1-136-167-00	FILM	0.15uF	5%	50V	R879	1-249-417-11	CARBON	1K	5%	1/4W F
C833	1-162-294-31	CERAMIC	0.001uF	10%	50V	*****					
C834	1-162-305-11	CERAMIC	0.0068uF	30%	16V	*	A-4673-765-A	MOTOR BOARD, COMPLETE	*****		
C835	1-136-495-11	FILM	0.068uF	5%	50V						
C837	1-126-964-11	ELECT	10uF	20%	50V	*	4-980-385-01	HOLDER (SW)			
C838	1-126-964-11	ELECT	10uF	20%	50V						
C865	1-126-961-11	ELECT	2.2uF	20%	50V						
C878	1-126-960-11	ELECT	1uF	20%	50V						
C900	1-164-159-11	CERAMIC	0.1uF		50V						
		< CONNECTOR >									
CN812	1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P									
		< DIODE >									
D801	8-719-109-85	DIODE RD5.1ESB2									
		< FILTER >									
FL801	1-424-228-11	FILTER, NOISE									
		< IC >									
IC850	8-759-505-55	IC NJM4558L									
IC851	8-759-450-96	IC M65850P									
		< JACK >									
J801	1-770-226-11	JACK (LARGE TYPE) (MIC-2)									
J802	1-770-226-11	JACK (LARGE TYPE) (MIC-1)									
		< TRANSISTOR >									
Q884	8-729-119-78	TRANSISTOR 2SC2785-HFE									
		< RESISTOR >									
R806	1-249-429-11	CARBON	10K	5%	1/4W						
R807	1-249-429-11	CARBON	10K	5%	1/4W						
R808	1-249-417-11	CARBON	1K	5%	1/4W F						
R809	1-249-417-11	CARBON	1K	5%	1/4W F						
R811	1-249-441-11	CARBON	100K	5%	1/4W						
R850	1-249-417-11	CARBON	1K	5%	1/4W F						
R852	1-249-441-11	CARBON	100K	5%	1/4W						
R853	1-249-417-11	CARBON	1K	5%	1/4W F						
R854	1-249-437-11	CARBON	47K	5%	1/4W						
R855	1-249-429-11	CARBON	10K	5%	1/4W						
R856	1-247-893-11	CARBON	390K	5%	1/4W						
R857	1-247-807-31	CARBON	100	5%	1/4W						
R858	1-249-433-11	CARBON	22K	5%	1/4W						
		< CAPACITOR >									
C401	1-126-963-11	ELECT	4.7uF	20%	50V						
C406	1-164-159-11	CERAMIC	0.1uF		50V						
C407	1-164-159-11	CERAMIC	0.1uF		50V						
C408	1-164-159-11	CERAMIC	0.1uF		50V						
C409	1-164-159-11	CERAMIC	0.1uF		50V						
C410	1-164-159-11	CERAMIC	0.1uF		50V						
C411	1-164-159-11	CERAMIC	0.1uF		50V						
C412	1-162-306-11	CERAMIC	0.01uF	30%	16V						
C413	1-162-306-11	CERAMIC	0.01uF	30%	16V						
C414	1-162-306-11	CERAMIC	0.01uF	30%	16V						
		< SWITCH >									
S201	1-762-587-11	SWITCH, PUSH (1 KEY) (UP)									
		< PA BOARD >									
		A-4732-086-A	PA BOARD, COMPLETE	*****							
		4-875-327-31	HEAT SINK								
		7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S								

HCD-XGV11AV

PA

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
C415	1-162-306-11	CERAMIC	0.01uF 30% 16V	D406	8-719-991-33	DIODE 1SS133T-77	
C416	1-162-306-11	CERAMIC	0.01uF 30% 16V	D407	8-719-991-33	DIODE 1SS133T-77	
C801	1-128-582-11	ELECT	10uF 20% 100V	D408	8-719-991-33	DIODE 1SS133T-77	
C802	1-162-290-31	CERAMIC	470PF 10% 50V	D409	8-719-991-33	DIODE 1SS133T-77	
C803	1-162-286-31	CERAMIC	220PF 10% 50V	D410	8-719-991-33	DIODE 1SS133T-77	
C804	1-126-965-91	ELECT	22uF 20% 50V	D801	8-719-991-33	DIODE 1SS133T-77	
C807	1-128-560-11	ELECT	22uF 20% 100V	D802	8-719-110-48	DIODE RD18ESB1	
C808	1-137-749-11	MYLAR	0.1uF 100V	D803	8-719-991-33	DIODE 1SS133T-77	
C809	1-137-749-11	MYLAR	0.1uF 100V	D804	8-719-991-33	DIODE 1SS133T-77	
C810	1-128-562-11	ELECT	47uF 20% 100V	D805	8-719-991-33	DIODE 1SS133T-77	
C811	1-130-491-00	MYLAR	0.047uF 5% 50V	D831	8-719-510-68	DIODE D5SBA204101	
C812	1-130-491-00	MYLAR	0.047uF 5% 50V	D833	6-500-522-11	DIODE 10EDB40-TA2B5	
C813	1-162-306-11	CERAMIC	0.01uF 30% 16V	D834	6-500-522-11	DIODE 10EDB40-TA2B5	
C814	1-162-294-31	CERAMIC	0.001uF 10% 50V	D835	6-500-522-11	DIODE 10EDB40-TA2B5	
C815	1-126-959-11	ELECT	0.47uF 20% 50V	D836	6-500-522-11	DIODE 10EDB40-TA2B5	
C830	1-107-714-11	ELECT	10uF 20% 50V	D841	6-500-522-11	DIODE 10EDB40-TA2B5	
C831	1-126-964-11	ELECT	10uF 20% 50V	D842	6-500-522-11	DIODE 10EDB40-TA2B5	
C833	1-126-964-11	ELECT	10uF 20% 50V	D843	6-500-522-11	DIODE 10EDB40-TA2B5	
C841	1-127-811-11	ELECT	3300uF 20% 50V	D844	6-500-522-11	DIODE 10EDB40-TA2B5	
C842	1-127-815-11	ELECT	3300uF 20% 100V	D851	8-719-991-33	DIODE 1SS133T-77	
C844	1-137-749-11	MYLAR	0.1uF 100V	D852	8-719-110-48	DIODE RD18ESB1	
C845	1-126-943-11	ELECT	2200uF 20% 25V	D853	8-719-991-33	DIODE 1SS133T-77	
C847	1-164-159-11	CERAMIC	0.1uF 50V	D902	6-500-522-11	DIODE 10EDB40-TA2B5	
C848	1-164-159-11	CERAMIC	0.1uF 50V	D903	6-500-522-11	DIODE 10EDB40-TA2B5	
C849	1-164-159-11	CERAMIC	0.1uF 50V	D904	6-500-522-11	DIODE 10EDB40-TA2B5	
C850	1-107-721-11	ELECT	4.7uF 20% 100V	D905	6-500-522-11	DIODE 10EDB40-TA2B5	
C851	1-128-582-11	ELECT	10uF 20% 100V	D911	8-719-983-86	DIODE MTZJ-T-72-33A	
C852	1-162-290-31	CERAMIC	470PF 10% 50V	D912	8-719-109-89	DIODE RD5.6ESB2	
C853	1-162-286-31	CERAMIC	220PF 10% 50V			< IC >	
C854	1-126-965-91	ELECT	22uF 20% 50V	IC801	8-749-017-06	IC STK412-150	
C857	1-128-560-11	ELECT	22uF 20% 100V	IC901	6-701-760-01	IC uPC3504AHF	
C858	1-164-159-11	CERAMIC	0.1uF 50V			< COIL >	
C859	1-164-159-11	CERAMIC	0.1uF 50V	L403	1-422-009-13	COIL, AIR-CORE	
C861	1-130-491-00	MYLAR	0.047uF 5% 50V	L404	1-422-009-13	COIL, AIR-CORE	
C862	1-130-491-00	MYLAR	0.047uF 5% 50V	L405	1-422-009-13	COIL, AIR-CORE	
C863	1-126-961-11	ELECT	2.2uF 20% 50V			< TRANSISTOR >	
C864	1-104-665-11	ELECT	100uF 20% 25V	Q401	8-729-029-40	TRANSISTOR DTA124ESA	
C891	1-127-811-11	ELECT	3300uF 20% 50V	Q402	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
C892	1-127-815-11	ELECT	3300uF 20% 100V	Q403	8-729-029-40	TRANSISTOR DTA124ESA	
C894	1-137-749-11	MYLAR	0.1uF 100V	Q407	8-729-029-86	TRANSISTOR DTC124ESA	
C895	1-107-721-11	ELECT	4.7uF 20% 100V	Q431	8-729-620-05	TRANSISTOR 2SC2603-EF	
C902	1-164-159-11	CERAMIC	0.1uF 50V	Q801	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
C903	1-126-933-11	ELECT	100uF 20% 16V	Q803	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
C904	1-126-964-11	ELECT	10uF 20% 50V	Q804	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
C905	1-126-968-11	ELECT	100uF 20% 50V	Q805	8-729-231-55	TRANSISTOR 2SC2878-AB	
C906	1-126-943-11	ELECT	2200uF 20% 25V	Q831	8-729-029-86	TRANSISTOR DTC124ESA	
C909	1-164-159-11	CERAMIC	0.1uF 50V	Q832	8-729-620-05	TRANSISTOR 2SC2603-EF	
		< CONNECTOR >		Q833	8-729-029-40	TRANSISTOR DTA124ESA	
CN803	1-778-981-21	CONNECTOR, BOARD TO BOARD 13P		Q834	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
CN804	1-778-981-21	CONNECTOR, BOARD TO BOARD 13P		Q842	8-729-620-05	TRANSISTOR 2SC2603-EF	
* CN806	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P		Q843	8-729-029-86	TRANSISTOR DTC124ESA	
CN904	1-785-316-11	PIN, CONNECTOR (STRAIGHT) 4P		Q851	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
		< DIODE >		Q855	8-729-231-55	TRANSISTOR 2SC2878-AB	
D401	8-719-991-33	DIODE 1SS133T-77		Q901	8-729-620-05	TRANSISTOR 2SC2603-EF	
D402	8-719-991-33	DIODE 1SS133T-77		Q903	8-729-209-60	TRANSISTOR 2SB1375	
D403	8-719-991-33	DIODE 1SS133T-77		Q908	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D404	8-719-991-33	DIODE 1SS133T-77					
D405	8-719-991-33	DIODE 1SS133T-77					

PA	PANEL FL
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Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
		< RESISTOR >		R839	1-249-441-11	CARBON 100K 5%	1/4W
△ R401	1-216-430-11	METAL OXIDE 390 5%	1W	R840	1-249-402-11	CARBON 56 5%	1/4W F
△ R402	1-216-452-11	METAL OXIDE 180 5%	2W	R842	1-249-411-11	CARBON 330 5%	1/4W
R406	1-249-437-11	CARBON 47K 5%	1/4W	R843	1-249-441-11	CARBON 100K 5%	1/4W
R407	1-249-437-11	CARBON 47K 5%	1/4W	R851	1-249-417-11	CARBON 1K 5%	1/4W F
R408	1-249-440-11	CARBON 82K 5%	1/4W	R852	1-249-437-11	CARBON 47K 5%	1/4W
R409	1-249-437-11	CARBON 47K 5%	1/4W	R853	1-249-413-11	CARBON 470 5%	1/4W F
R416	1-249-389-11	CARBON 4.7 5%	1/4W F	R855	1-215-891-11	METAL OXIDE 680 5%	2W
R417	1-249-389-11	CARBON 4.7 5%	1/4W F	△ R857	1-212-881-11	FUSIBLE 100 5%	1/4W
R418	1-249-389-11	CARBON 4.7 5%	1/4W F	△ R858	1-219-718-11	METAL 0.1 10%	5W
R419	1-249-389-11	CARBON 4.7 5%	1/4W F	R859	1-260-076-11	CARBON 10 5%	1/2W
R420	1-249-389-11	CARBON 4.7 5%	1/4W F	R860	1-249-437-11	CARBON 47K 5%	1/4W
R421	1-249-389-11	CARBON 4.7 5%	1/4W F	R861	1-249-417-11	CARBON 1K 5%	1/4W F
R422	1-260-076-11	CARBON 10 5%	1/2W	R862	1-249-431-11	CARBON 15K 5%	1/4W
R423	1-260-076-11	CARBON 10 5%	1/2W	R863	1-249-441-11	CARBON 100K 5%	1/4W
R424	1-260-076-11	CARBON 10 5%	1/2W	R864	1-249-425-11	CARBON 4.7K 5%	1/4W F
R425	1-249-437-11	CARBON 47K 5%	1/4W	R865	1-249-433-11	CARBON 22K 5%	1/4W
R429	1-249-437-11	CARBON 47K 5%	1/4W	R866	1-249-429-11	CARBON 10K 5%	1/4W
R431	1-249-438-11	CARBON 56K 5%	1/4W	R867	1-249-421-11	CARBON 2.2K 5%	1/4W F
R432	1-249-437-11	CARBON 47K 5%	1/4W	R868	1-249-409-11	CARBON 220 5%	1/4W F
R439	1-249-425-11	CARBON 4.7K 5%	1/4W F	R880	1-249-402-11	CARBON 56 5%	1/4W F
R442	1-249-435-11	CARBON 33K 5%	1/4W	△ R888	1-219-718-11	METAL 0.1 10%	5W
R443	1-249-434-11	CARBON 27K 5%	1/4W	R889	1-249-441-11	CARBON 100K 5%	1/4W
R444	1-249-439-11	CARBON 68K 5%	1/4W	△ R898	1-219-718-11	METAL 0.1 10%	5W
R446	1-249-429-11	CARBON 10K 5%	1/4W	R901	1-249-429-11	CARBON 10K 5%	1/4W
R447	1-249-437-11	CARBON 47K 5%	1/4W	R902	1-249-441-11	CARBON 100K 5%	1/4W
R450	1-249-437-11	CARBON 47K 5%	1/4W	R903	1-249-429-11	CARBON 10K 5%	1/4W
R801	1-249-417-11	CARBON 1K 5%	1/4W F	R904	1-249-417-11	CARBON 1K 5%	1/4W F
R802	1-249-437-11	CARBON 47K 5%	1/4W	R905	1-249-429-11	CARBON 10K 5%	1/4W
R803	1-249-413-11	CARBON 470 5%	1/4W F	R906	1-247-807-31	CARBON 100 5%	1/4W
R804	1-249-435-11	CARBON 33K 5%	1/4W	R907	1-247-807-31	CARBON 100 5%	1/4W
R805	1-216-436-00	METAL OXIDE 3.9K 5%	1W	R915	1-249-397-11	CARBON 22 5%	1/4W F
R806	1-216-436-00	METAL OXIDE 3.9K 5%	1W	△ R916	1-215-915-11	METAL OXIDE 470 5%	3W
△ R807	1-212-881-11	FUSIBLE 100 5%	1/4W			< RELAY >	
△ R808	1-219-718-11	METAL 0.1 10%	5W	RY401	1-515-920-11	RELAY	
R809	1-260-076-11	CARBON 10 5%	1/2W	RY402	1-515-920-11	RELAY (24V)	
R810	1-249-437-11	CARBON 47K 5%	1/4W	RY403	1-515-920-11	RELAY (24V)	
R811	1-249-417-11	CARBON 1K 5%	1/4W F			< THERMISTOR >	
R812	1-249-431-11	CARBON 15K 5%	1/4W	TH831	1-807-796-11	THERMISTOR	
R813	1-249-441-11	CARBON 100K 5%	1/4W			< TERMINAL >	
R814	1-249-421-11	CARBON 2.2K 5%	1/4W F	TM401	1-537-925-62	TERMINAL BOARD (FRONT SPEAKER)	
R815	1-249-433-11	CARBON 22K 5%	1/4W	TM402	1-537-510-31	TERMINAL BOARD (SPEAKER) (6P)	
R816	1-249-429-11	CARBON 10K 5%	1/4W			(SURROUND/CENTER SPEAKER)	
R817	1-249-437-11	CARBON 47K 5%	1/4W	*****			
R818	1-249-409-11	CARBON 220 5%	1/4W F	A-4732-037-A	PANEL FL BOARD, COMPLETE		
R819	1-249-439-11	CARBON 68K 5%	1/4W	*****			
△ R820	1-217-637-00	FUSIBLE 1 5%	1/4W	4-225-511-01	HOLDER FL TUBE		
R821	1-249-435-11	CARBON 33K 5%	1/4W	4-949-935-41	CUSHION (FL)		
R822	1-249-433-11	CARBON 22K 5%	1/4W			< CAPACITOR >	
R823	1-249-433-11	CARBON 22K 5%	1/4W	C601	1-162-294-31	CERAMIC 0.001uF 10%	50V
R824	1-249-416-11	CARBON 820 5%	1/4W F	C602	1-126-947-11	ELECT 47uF 20%	16V
R825	1-215-891-11	METAL OXIDE 680 5%	2W	C603	1-162-306-11	CERAMIC 0.01uF 30%	16V
R827	1-249-441-11	CARBON 100K 5%	1/4W	C604	1-126-947-11	ELECT 47uF 20%	16V
R828	1-247-903-00	CARBON 1M 5%	1/4W	C605	1-162-306-11	CERAMIC 0.01uF 30%	16V
R831	1-249-441-11	CARBON 100K 5%	1/4W			The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.	
R832	1-249-441-11	CARBON 100K 5%	1/4W				
R833	1-249-433-11	CARBON 22K 5%	1/4W				
R834	1-249-429-11	CARBON 10K 5%	1/4W				
R835	1-249-437-11	CARBON 47K 5%	1/4W				
R836	1-249-417-11	CARBON 1K 5%	1/4W F				
R837	1-249-429-11	CARBON 10K 5%	1/4W				
R838	1-249-429-11	CARBON 10K 5%	1/4W				

HCD-XGV11AV

PANEL FL

Ref. No.	Part No.	Description		Remarks	Ref. No.	Part No.	Description		Remarks
C606	1-126-963-11	ELECT	4.7uF	20%	50V	R613	1-249-431-11	CARBON	15K 5% 1/4W
C607	1-164-159-11	CERAMIC	0.1uF		50V	R614	1-249-431-11	CARBON	15K 5% 1/4W
C608	1-164-159-11	CERAMIC	0.1uF		50V				
C614	1-126-157-11	ELECT	10uF	20%	16V	R615	1-249-431-11	CARBON	15K 5% 1/4W
C615	1-126-964-11	ELECT	10uF	20%	50V	R616	1-249-431-11	CARBON	15K 5% 1/4W
						R617	1-249-431-11	CARBON	15K 5% 1/4W
C616	1-162-303-11	CERAMIC	0.0033uF	30%	16V	R618	1-247-807-31	CARBON	100 5% 1/4W
C617	1-164-159-11	CERAMIC	0.1uF		50V	R619	1-249-433-11	CARBON	22K 5% 1/4W
C618	1-164-159-11	CERAMIC	0.1uF		50V				
C619	1-126-157-11	ELECT	10uF	20%	16V	R620	1-247-903-00	CARBON	1M 5% 1/4W
C620	1-162-306-11	CERAMIC	0.01uF	30%	16V	R621	1-249-413-11	CARBON	470 5% 1/4W F
						R622	1-249-415-11	CARBON	680 5% 1/4W F
C622	1-126-960-11	ELECT	1uF	20%	50V	R623	1-249-413-11	CARBON	470 5% 1/4W F
C623	1-126-960-11	ELECT	1uF	20%	50V	R624	1-247-891-00	CARBON	330K 5% 1/4W
C624	1-126-947-11	ELECT	47uF	20%	16V				
C625	1-126-964-11	ELECT	10uF	20%	50V	R625	1-247-891-00	CARBON	330K 5% 1/4W
		< CONNECTOR >				R626	1-249-437-11	CARBON	47K 5% 1/4W
CN601	1-784-741-11	CONNECTOR, FFC 19P				R627	1-249-433-11	CARBON	22K 5% 1/4W
CN602	1-784-780-11	CONNECTOR, FFC 19P				R628	1-249-435-11	CARBON	33K 5% 1/4W
		< DIODE >				R629	1-249-413-11	CARBON	470 5% 1/4W F
D601	8-719-991-33	DIODE 1SS133T-77				R630	1-249-415-11	CARBON	680 5% 1/4W F
D602	8-719-058-04	DIODE SEL5223S-TP15 (I/Ⓢ)				R631	1-249-417-11	CARBON	1K 5% 1/4W F
		< FLUORESCENT INDICATOR TUBE >				R632	1-249-419-11	CARBON	1.5K 5% 1/4W F
FL601	1-518-794-11	INDICATOR TUBE, FLUORESCENT				R633	1-249-419-11	CARBON	1.5K 5% 1/4W F
		< IC >				R634	1-249-411-11	CARBON	330 5% 1/4W
IC601	6-802-683-01	IC MB90M407APF-G-125-BND				R635	1-249-437-11	CARBON	47K 5% 1/4W
IC602	8-759-826-34	IC NJL74H400A				R637	1-249-409-11	CARBON	220 5% 1/4W F
IC603	8-759-083-77	IC BA3830F				R638	1-249-415-11	CARBON	680 5% 1/4W F
		< COIL >				R639	1-249-429-11	CARBON	10K 5% 1/4W
L603	1-410-517-11	INDUCTOR	47uH			R640	1-249-441-11	CARBON	100K 5% 1/4W
		< TRANSISTOR >				R643	1-249-401-11	CARBON	47 5% 1/4W F
Q601	8-729-029-86	TRANSISTOR DTC124ESA				R647	1-249-413-11	CARBON	470 5% 1/4W F
Q602	8-729-620-05	TRANSISTOR 2SC2603-EF				R665	1-249-441-11	CARBON	100K 5% 1/4W
Q603	8-729-140-04	TRANSISTOR 2SB1116A-L				R666	1-249-441-11	CARBON	100K 5% 1/4W
Q604	8-729-620-05	TRANSISTOR 2SC2603-EF				R667	1-249-441-11	CARBON	100K 5% 1/4W
Q605	8-729-140-04	TRANSISTOR 2SB1116A-L							
Q606	8-729-047-58	TRANSISTOR DTC114TLTL2				R668	1-249-441-11	CARBON	100K 5% 1/4W
Q607	8-729-047-58	TRANSISTOR DTC114TLTL2				R681	1-249-437-11	CARBON	47K 5% 1/4W
Q608	8-729-047-58	TRANSISTOR DTC114TLTL2				R683	1-249-437-11	CARBON	47K 5% 1/4W
Q609	8-729-047-58	TRANSISTOR DTC114TLTL2				R684	1-249-417-11	CARBON	1K 5% 1/4W F
		< RESISTOR >				R685	1-249-417-11	CARBON	1K 5% 1/4W F
R600	1-249-413-11	CARBON	470	5%	1/4W F				
R601	1-249-441-11	CARBON	100K	5%	1/4W				
R602	1-249-429-11	CARBON	10K	5%	1/4W				
R603	1-249-429-11	CARBON	10K	5%	1/4W				
R604	1-249-429-11	CARBON	10K	5%	1/4W				
R605	1-247-807-31	CARBON	100	5%	1/4W				
R606	1-249-429-11	CARBON	10K	5%	1/4W				
R607	1-249-429-11	CARBON	10K	5%	1/4W				
R608	1-249-413-11	CARBON	470	5%	1/4W F				
R609	1-249-429-11	CARBON	10K	5%	1/4W				
R610	1-247-807-31	CARBON	100	5%	1/4W				
R611	1-247-807-31	CARBON	100	5%	1/4W				
R612	1-249-431-11	CARBON	15K	5%	1/4W				
		< SWITCH >				S612	1-762-875-21	SWITCH, KEYBOARD (ILLUMINATION)	
						S613	1-762-875-21	SWITCH, KEYBOARD (Ⓢ CLOCK SET)	
						S614	1-762-875-21	SWITCH, KEYBOARD (TIMER SELECT)	
						S615	1-762-875-21	SWITCH, KEYBOARD (SLEEP)	
						S616	1-762-875-21	SWITCH, KEYBOARD (FUNCTION)	
						S617	1-762-875-21	SWITCH, KEYBOARD (I/Ⓢ)	
						S618	1-762-875-21	SWITCH, KEYBOARD (DISPLAY)	
		< VIBRATOR >							
						X601	1-795-737-21	VIBRATOR, CERAMIC (4MHz)	

PANEL VR	PROLOGIC
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Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
	A-4732-062-A	PANEL VR BOARD, COMPLETE (including MIC VR BOARD)		R721	1-249-403-11	CARBON	68 5% 1/4W F
		*****				< RELAY >	
		< CAPACITOR >		RV801	1-225-739-11	RES, VAR CARBON 50K (MIC LEVEL)	
				RV802	1-225-739-11	RES, VAR CARBON 50K (ECHO LEVEL)	
						< SWITCH >	
C701	1-162-294-31	CERAMIC	0.001uF 10% 50V	S700	1-473-392-11	ENCODER, ROTARY (VOLUME)	
C702	1-162-294-31	CERAMIC	0.001uF 10% 50V	S701	1-762-875-21	SWITCH, KEYBOARD (X-GROOVE)	
C703	1-162-294-31	CERAMIC	0.001uF 10% 50V			*****	
C704	1-126-947-11	ELECT	47uF 20% 16V		A-4732-081-A	PROLOGIC BOARD, COMPLETE	
C705	1-162-306-11	CERAMIC	0.01uF 30% 16V			*****	
C706	1-164-159-11	CERAMIC	0.1uF 50V			< CAPACITOR >	
C707	1-162-306-11	CERAMIC	0.01uF 30% 16V				
C708	1-162-306-11	CERAMIC	0.01uF 30% 16V				
		< CONNECTOR >		C201	1-126-795-11	ELECT	10uF 20% 50V
CN701	1-784-741-11	CONNECTOR, FFC 19P		C202	1-126-795-11	ELECT	10uF 20% 50V
CN702	1-563-616-11	CONNECTOR, FLEXIBLE 13P		C203	1-115-870-11	ELECT	0.47uF 20% 50V
		< DIODE >		C204	1-126-959-11	ELECT	0.47uF 20% 50V
D701	8-719-058-04	DIODE SEL5223S-TP15 (VU 1)		C205	1-136-165-00	FILM	0.1uF 5% 50V
D702	8-719-058-04	DIODE SEL5223S-TP15 (VU 2)		C206	1-136-165-00	FILM	0.1uF 5% 50V
D703	8-719-058-04	DIODE SEL5223S-TP15 (VU 3)		C207	1-126-959-11	ELECT	0.47uF 20% 50V
D704	8-719-058-04	DIODE SEL5223S-TP15 (VU 4)		C208	1-126-959-11	ELECT	0.47uF 20% 50V
D705	8-719-058-04	DIODE SEL5223S-TP15 (VU 5)		C209	1-126-959-11	ELECT	0.47uF 20% 50V
D706	8-719-058-04	DIODE SEL5223S-TP15 (VU 6)		C210	1-126-959-11	ELECT	0.47uF 20% 50V
D707	8-719-058-04	DIODE SEL5223S-TP15 (VU 7)		C211	1-126-959-11	ELECT	0.47uF 20% 50V
D708	8-719-058-04	DIODE SEL5223S-TP15 (VU 8)		C212	1-126-959-11	ELECT	0.47uF 20% 50V
D709	8-719-058-04	DIODE SEL5223S-TP15 (VU 9)		C213	1-136-165-00	FILM	0.1uF 5% 50V
D710	8-719-058-04	DIODE SEL5223S-TP15 (VU 10)		C214	1-164-156-11	CERAMIC CHIP	0.1uF 25V
D711	8-719-058-04	DIODE SEL5223S-TP15 (VU 11)		C215	1-164-156-11	CERAMIC CHIP	0.1uF 25V
D712	8-719-058-04	DIODE SEL5223S-TP15 (VU 12)		C216	1-126-960-11	ELECT	1uF 20% 50V
D713	8-719-058-04	DIODE SEL5223S-TP15 (VU 13)		C217	1-130-479-00	MYLAR	0.0047uF 5% 50V
D714	8-719-058-04	DIODE SEL5223S-TP15 (VU 14)		C218	1-130-471-00	MYLAR	0.001uF 5% 50V
		< IC >		C219	1-136-165-00	FILM	0.1uF 5% 50V
IC701	8-759-373-50	IC NJU3719L		C220	1-136-169-00	FILM	0.22uF 5% 50V
		< COIL >		C221	1-136-169-00	FILM	0.22uF 5% 50V
L701	1-410-509-11	INDUCTOR 10uH		C222	1-136-165-00	FILM	0.1uF 5% 50V
		< RESISTOR >		C223	1-130-479-00	MYLAR	0.0047uF 5% 50V
R701	1-249-429-11	CARBON	10K 5% 1/4W	C224	1-130-471-00	MYLAR	0.001uF 5% 50V
R702	1-247-807-31	CARBON	100 5% 1/4W	C225	1-115-871-11	ELECT	1uF 20% 50V
R703	1-247-807-31	CARBON	100 5% 1/4W	C226	1-130-480-00	MYLAR	0.0056uF 5% 50V
R704	1-247-807-31	CARBON	100 5% 1/4W	C227	1-136-161-00	FILM	0.047uF 5% 50V
R705	1-249-417-11	CARBON	1K 5% 1/4W F	C228	1-136-175-00	FILM	0.68uF 5% 50V
R706	1-249-417-11	CARBON	1K 5% 1/4W F	C229	1-136-169-00	FILM	0.22uF 5% 50V
R707	1-249-415-11	CARBON	680 5% 1/4W F	C230	1-136-169-00	FILM	0.22uF 5% 50V
R708	1-249-403-11	CARBON	68 5% 1/4W F	C231	1-126-963-11	ELECT	4.7uF 20% 50V
R709	1-249-403-11	CARBON	68 5% 1/4W F	C232	1-126-963-11	ELECT	4.7uF 20% 50V
R710	1-249-403-11	CARBON	68 5% 1/4W F	C233	1-136-169-00	FILM	0.22uF 5% 50V
R711	1-249-403-11	CARBON	68 5% 1/4W F	C234	1-136-169-00	FILM	0.22uF 5% 50V
R712	1-249-403-11	CARBON	68 5% 1/4W F	C235	1-136-165-00	FILM	0.1uF 5% 50V
R713	1-249-403-11	CARBON	68 5% 1/4W F	C236	1-136-161-00	FILM	0.047uF 5% 50V
R714	1-249-403-11	CARBON	68 5% 1/4W F	C237	1-136-161-00	FILM	0.047uF 5% 50V
R715	1-249-403-11	CARBON	68 5% 1/4W F	C238	1-136-165-00	FILM	0.1uF 5% 50V
R716	1-249-403-11	CARBON	68 5% 1/4W F	C239	1-136-165-00	FILM	0.1uF 5% 50V
R717	1-249-403-11	CARBON	68 5% 1/4W F	C240	1-136-157-00	FILM	0.022uF 5% 50V
R718	1-249-403-11	CARBON	68 5% 1/4W F	C241	1-136-157-00	FILM	0.022uF 5% 50V
R719	1-249-403-11	CARBON	68 5% 1/4W F	C242	1-136-165-00	FILM	0.1uF 5% 50V
R720	1-249-403-11	CARBON	68 5% 1/4W F	C243	1-130-469-00	MYLAR	680PF 5% 50V
				C244	1-136-153-00	FILM	0.01uF 5% 50V
				C245	1-136-153-00	FILM	0.01uF 5% 50V
				C246	1-130-469-00	MYLAR	680PF 5% 50V

HCD-XGV11AV

PROLOGIC	SENSOR	SUB AMP
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Ref. No.	Part No.	Description	Remarks
C247	1-136-153-00	FILM 0.01uF 5%	50V
C248	1-136-153-00	FILM 0.01uF 5%	50V
C249	1-126-947-11	ELECT 47uF 20%	16V
C250	1-130-481-00	MYLAR 0.0068uF 5%	50V
C251	1-126-963-11	ELECT 4.7uF 20%	50V
C252	1-126-934-11	ELECT 220uF 20%	16V
C253	1-126-934-11	ELECT 220uF 20%	16V
C255	1-126-964-11	ELECT 10uF 20%	50V
C256	1-126-964-11	ELECT 10uF 20%	50V
C257	1-126-964-11	ELECT 10uF 20%	50V
C258	1-126-964-11	ELECT 10uF 20%	50V
C259	1-126-964-11	ELECT 10uF 20%	50V
C260	1-126-964-11	ELECT 10uF 20%	50V
C261	1-126-964-11	ELECT 10uF 20%	50V
C262	1-126-964-11	ELECT 10uF 20%	50V
C264	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
C291	1-162-974-11	CERAMIC CHIP 0.01uF	50V
C292	1-162-974-11	CERAMIC CHIP 0.01uF	50V
< CONNECTOR >			
CN201	1-766-797-11	CONNECTOR, BOARD TO BOARD 10P	
CN202	1-766-797-11	CONNECTOR, BOARD TO BOARD 10P	
< DIODE >			
D201	8-719-988-61	DIODE 1SS355TE-17	
< FLUORESCENT INDICATOR TUBE >			
FL201	1-233-289-21	FILTER, EMI (SMD)	
< IC >			
IC201	8-759-571-51	IC M62464FP	
< COIL >			
L201	1-412-032-11	INDUCTOR CHIP 100uH	
< TRANSISTOR >			
Q271	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q281	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q291	8-729-141-30	TRANSISTOR 2SC3623A-LK	
< RESISTOR >			
R201	1-216-809-11	METAL CHIP 100 5%	1/10W
R202	1-216-809-11	METAL CHIP 100 5%	1/10W
R203	1-216-817-11	METAL CHIP 470 5%	1/10W
R204	1-216-851-11	METAL CHIP 330K 5%	1/10W
R205	1-216-841-11	METAL CHIP 47K 5%	1/10W
R206	1-216-847-11	METAL CHIP 150K 5%	1/10W
R207	1-218-892-11	METAL CHIP 75K 0.5%	1/10W
R208	1-216-841-11	METAL CHIP 47K 5%	1/10W
R209	1-216-847-11	METAL CHIP 150K 5%	1/10W
R210	1-218-892-11	METAL CHIP 75K 0.5%	1/10W
R211	1-216-845-11	METAL CHIP 100K 5%	1/10W
R212	1-216-845-11	METAL CHIP 100K 5%	1/10W
R216	1-216-833-11	METAL CHIP 10K 5%	1/10W
R217	1-216-833-11	METAL CHIP 10K 5%	1/10W
R271	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R272	1-216-845-11	METAL CHIP 100K 5%	1/10W
R273	1-216-833-11	METAL CHIP 10K 5%	1/10W
R281	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R282	1-216-845-11	METAL CHIP 100K 5%	1/10W

Ref. No.	Part No.	Description	Remarks
R283	1-216-833-11	METAL CHIP 10K 5%	1/10W
R291	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R292	1-216-845-11	METAL CHIP 100K 5%	1/10W
R293	1-216-833-11	METAL CHIP 10K 5%	1/10W
R294	1-216-821-11	METAL CHIP 1K 5%	1/10W

*	1-659-058-13	SENSOR BOARD	*****
< IC >			
IC202	8-749-924-18	PHOTO INTERRUPTER RPI-1391	
< RESISTOR >			
R207	1-249-416-11	CARBON 820 5%	1/4W F

A-4732-075-A	SUB AMP BOARD, COMPLETE		

< CAPACITOR >			
C101	1-126-960-11	ELECT 1uF 20%	50V
C102	1-162-292-31	CERAMIC 680PF 10%	50V
C103	1-162-286-31	CERAMIC 220PF 10%	50V
C104	1-126-967-11	ELECT 47uF 20%	50V
C105	1-136-165-00	MYLAR 0.1uF 5%	50V
C106	1-136-165-00	MYLAR 0.1uF 5%	50V
C107	1-126-968-11	ELECT 100uF 20%	50V
C108	1-136-495-11	FILM 0.068uF 5%	50V
C109	1-136-495-11	FILM 0.068uF 5%	50V
C113	1-162-306-11	CERAMIC 0.01uF 30%	16V
C151	1-126-960-11	ELECT 1uF 20%	50V
C152	1-162-292-31	CERAMIC 680PF 10%	50V
C153	1-162-286-31	CERAMIC 220PF 10%	50V
C154	1-126-967-11	ELECT 47uF 20%	50V
C157	1-126-968-11	ELECT 100uF 20%	50V
C158	1-136-495-11	FILM 0.068uF 5%	50V
C159	1-136-495-11	FILM 0.068uF 5%	50V
C181	1-126-960-11	ELECT 1uF 20%	50V
C182	1-162-292-31	CERAMIC 680PF 10%	50V
C183	1-162-286-31	CERAMIC 220PF 10%	50V
C184	1-126-967-11	ELECT 47uF 20%	50V
C188	1-136-495-11	FILM 0.068uF 5%	50V
C189	1-136-495-11	FILM 0.068uF 5%	50V
< CONNECTOR >			
CN101	1-691-771-11	PLUG (MICRO CONNECTOR) 9P	
CN102	1-691-766-11	PLUG (MICRO CONNECTOR) 4P	
< DIODE >			
D101	8-719-991-33	DIODE 1SS133T-77	
D151	8-719-991-33	DIODE 1SS133T-77	
D191	8-719-991-33	DIODE 1SS133T-77	
< IC >			
IC101	8-749-017-20	IC STK443-070	
< TRANSISTOR >			
Q101	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q151	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q181	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	

SUB AMP	SUB TRANS	TC-A	TRANS	TUNER/TC-B
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Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
		< RESISTOR >			1-687-256-11	TC-A BOARD *****	
R101	1-249-417-11	CARBON	1K 5% 1/4W F				
R102	1-249-437-11	CARBON	47K 5% 1/4W			< DIODE >	
R103	1-249-411-11	CARBON	330 5% 1/4W				
△ R107	1-212-881-11	FUSIBLE	100 5% 1/4W	D502	8-719-058-03	DIODE SEL5423E-TP15 (<=)	
△ R108	1-220-755-11	METAL	0.22 10% 2W	D503	8-719-058-03	DIODE SEL5423E-TP15 (>=)	
						< RESISTOR >	
R109	1-260-076-11	CARBON	10 5% 1/2W				
R110	1-249-437-11	CARBON	47K 5% 1/4W				
R111	1-249-417-11	CARBON	1K 5% 1/4W F	R503	1-247-807-31	CARBON	100 5% 1/4W
R112	1-249-431-11	CARBON	15K 5% 1/4W	R504	1-249-397-11	CARBON	22 5% 1/4W F
R113	1-249-441-11	CARBON	100K 5% 1/4W	R505	1-249-415-11	CARBON	680 5% 1/4W F
				R506	1-249-417-11	CARBON	1K 5% 1/4W F
△ R120	1-217-637-00	FUSIBLE	1 5% 1/4W	R507	1-249-419-11	CARBON	1.5K 5% 1/4W F
△ R128	1-220-755-11	METAL	0.22 10% 2W				
R130	1-249-429-11	CARBON	10K 5% 1/4W	R508	1-249-419-11	CARBON	1.5K 5% 1/4W F
△ R138	1-220-755-11	METAL	0.22 10% 2W	R509	1-249-419-11	CARBON	1.5K 5% 1/4W F
R151	1-249-417-11	CARBON	1K 5% 1/4W F	R510	1-249-419-11	CARBON	1.5K 5% 1/4W F
						< SWITCH >	
R152	1-249-437-11	CARBON	47K 5% 1/4W				
R153	1-249-410-11	CARBON	270 5% 1/4W F	S503	1-762-875-21	SWITCH, KEYBOARD (<=)	
△ R157	1-212-881-11	FUSIBLE	100 5% 1/4W	S504	1-762-875-21	SWITCH, KEYBOARD (>=)	
△ R158	1-220-755-11	METAL	0.22 10% 2W	S505	1-762-875-21	SWITCH, KEYBOARD (■)	
R159	1-260-076-11	CARBON	10 5% 1/2W	S506	1-762-875-21	SWITCH, KEYBOARD (◀◀◀◀)	
				S507	1-762-875-21	SWITCH, KEYBOARD (▶▶▶▶)	
R160	1-249-437-11	CARBON	47K 5% 1/4W				
R161	1-249-417-11	CARBON	1K 5% 1/4W F	S508	1-762-875-21	SWITCH, KEYBOARD (DIRECTION)	
R162	1-249-431-11	CARBON	15K 5% 1/4W				
R163	1-249-441-11	CARBON	100K 5% 1/4W				
△ R168	1-220-755-11	METAL	0.22 10% 2W				
R181	1-249-417-11	CARBON	1K 5% 1/4W F		1-687-270-11	TRANS BOARD *****	
R182	1-249-437-11	CARBON	47K 5% 1/4W				
R183	1-249-411-11	CARBON	330 5% 1/4W		1-533-217-31	HOLDER, FUSE	
△ R188	1-220-755-11	METAL	0.22 10% 2W		7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
R189	1-260-076-11	CARBON	10 5% 1/2W			< CAPACITOR >	
R190	1-249-437-11	CARBON	47K 5% 1/4W	C834	1-137-749-11	MYLAR	0.1uF 100V
R191	1-249-417-11	CARBON	1K 5% 1/4W F	C893	1-137-749-11	MYLAR	0.1uF 100V
R192	1-249-431-11	CARBON	15K 5% 1/4W	C961	1-162-306-11	CERAMIC	0.01uF 30% 16V
R193	1-249-441-11	CARBON	100K 5% 1/4W	C963	1-162-306-11	CERAMIC	0.01uF 30% 16V
	1-687-271-11	SUB TRANS BOARD *****				< CONNECTOR >	
				* CN951	1-564-214-11	PIN, CONNECTOR(3.96MM PITCH)3P	
		< CONNECTOR >		* CN952	1-564-526-11	PLUG, CONNECTOR 11P	
CN901	1-564-321-00	PIN, CONNECTOR(3.96MM PITCH)2P				< DIODE >	
CN902	1-568-106-11	PIN, CONNECTOR(3.96MM PITCH)4P					
				D832	8-719-066-42	DIODE RBV1306	
		< DIODE >				< RESISTOR >	
D901	8-719-991-33	DIODE 1SS133T-77		△ R951	1-219-122-11	FUSEBLE	0.33 1/4W
				△ R952	1-219-122-11	FUSEBLE	0.33 1/4W
		< RELAY >		△ R953	1-219-591-11	FUSEBLE	0.1 1/2W
△ RY901	1-755-467-11	RELAY (POWER)					
		< SWITCH >			A-4732-036-A	TUNER/TC-B BOARD, COMPLETE *****	
△ S901	1-786-055-21	SELECTOR, VOLTAGE (VOLTAGE SELECTOR)				< DIODE >	
		< TRANSFORMER >		D901	8-719-058-03	DIODE SEL5423E-TP15 (TUNER/BAND)	
△ T901	1-437-674-11	TRANSFORMER, POWER		D903	8-719-058-03	DIODE SEL5423E-TP15 (<=)	
				D904	8-719-058-03	DIODE SEL5423E-TP15 (>=)	

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

HCD-XGV11AV

TUNER/TC-B

VIDEO

Ref. No.	Part No.	Description	Remarks
D905	8-719-057-97	DIODE SEL5923A-TP15 (■)	
D906	8-719-058-04	DIODE SEL5223S-TP15 (●REC)	
< RESISTOR >			
R901	1-249-403-11	CARBON 68 5% 1/4W F	
R903	1-249-421-11	CARBON 2.2K 5% 1/4W F	
R904	1-247-843-11	CARBON 3.3K 5% 1/4W	
R905	1-249-425-11	CARBON 4.7K 5% 1/4W F	
R906	1-249-427-11	CARBON 6.8K 5% 1/4W F	
R907	1-249-429-11	CARBON 10K 5% 1/4W	
R908	1-249-431-11	CARBON 15K 5% 1/4W	
R909	1-249-433-11	CARBON 22K 5% 1/4W	
R910	1-249-435-11	CARBON 33K 5% 1/4W	
R911	1-249-403-11	CARBON 68 5% 1/4W F	
R912	1-249-403-11	CARBON 68 5% 1/4W F	
R913	1-247-807-31	CARBON 100 5% 1/4W	
R914	1-249-397-11	CARBON 22 5% 1/4W F	
R915	1-249-415-11	CARBON 680 5% 1/4W F	
R916	1-249-417-11	CARBON 1K 5% 1/4W F	
R917	1-249-419-11	CARBON 1.5K 5% 1/4W F	
R918	1-249-419-11	CARBON 1.5K 5% 1/4W F	
R919	1-249-421-11	CARBON 2.2K 5% 1/4W F	
R920	1-247-843-11	CARBON 3.3K 5% 1/4W	
< SWITCH >			
S901	1-762-875-21	SWITCH, KEYBOARD (TUNER/BAND)	
S902	1-762-875-21	SWITCH, KEYBOARD (TUNING -)	
S903	1-762-875-21	SWITCH, KEYBOARD (TUNING +)	
S904	1-762-875-21	SWITCH, KEYBOARD (MEMORY)	
S905	1-762-875-21	SWITCH, KEYBOARD (FM MODE)	
S906	1-762-875-21	SWITCH, KEYBOARD (ENTER)	
S907	1-762-875-21	SWITCH, KEYBOARD (TUNING MODE)	
S908	1-762-875-21	SWITCH, KEYBOARD (◀)	
S909	1-762-875-21	SWITCH, KEYBOARD (▶)	
S910	1-762-875-21	SWITCH, KEYBOARD (■)	
S911	1-762-875-21	SWITCH, KEYBOARD (■)	
S912	1-762-875-21	SWITCH, KEYBOARD (▶▶▶▶▶)	
S913	1-762-875-21	SWITCH, KEYBOARD (◀◀◀◀◀)	
S914	1-762-875-21	SWITCH, KEYBOARD (● REC)	
S915	1-762-875-21	SWITCH, KEYBOARD (CD SYNC)	

A-4748-118-A	VIDEO BOARD, COMPLETE		

< CAPACITOR >			
C104	1-124-778-00	ELECT CHIP 22uF 20% 6.3V	
C105	1-162-968-11	CERAMIC CHIP 0.0047uF 10% 50V	
C106	1-164-670-11	CERAMIC CHIP 1200PF 5% 16V	
C114	1-124-778-00	ELECT CHIP 22uF 20% 6.3V	
C115	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C116	1-126-206-11	ELECT CHIP 100uF 20% 6.3V	
C154	1-124-778-00	ELECT CHIP 22uF 20% 6.3V	
C155	1-162-968-11	CERAMIC CHIP 0.0047uF 10% 50V	
C156	1-164-670-11	CERAMIC CHIP 1200PF 5% 16V	
C201	1-124-778-00	ELECT CHIP 22uF 20% 6.3V	
C202	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C203	1-126-206-11	ELECT CHIP 100uF 20% 6.3V	
C204	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C205	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C206	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C207	1-164-156-11	CERAMIC CHIP 0.1uF 25V	

Ref. No.	Part No.	Description	Remarks
C208	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C209	1-124-778-00	ELECT CHIP 22uF 20% 6.3V	
C210	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C211	1-126-206-11	ELECT CHIP 100uF 20% 6.3V	
C212	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C213	1-124-778-00	ELECT CHIP 22uF 20% 6.3V	
C214	1-124-778-00	ELECT CHIP 22uF 20% 6.3V	
C221	1-124-779-00	ELECT CHIP 10uF 20% 16V	
C222	1-124-779-00	ELECT CHIP 10uF 20% 16V	
C223	1-126-206-11	ELECT CHIP 100uF 20% 6.3V	
C224	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C253	1-216-864-11	METAL CHIP 0 5% 1/10W	
C254	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C255	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C257	1-128-065-11	ELECT CHIP 68uF 20% 10V	
C258	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C259	1-126-206-11	ELECT CHIP 100uF 20% 6.3V	
C321	1-162-919-11	CERAMIC CHIP 22PF 5% 50V	
C322	1-162-917-11	CERAMIC CHIP 15PF 5% 50V	
C323	1-162-915-11	CERAMIC CHIP 10PF 0.5PF 50V	
C338	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C360	1-126-206-11	ELECT CHIP 100uF 20% 6.3V	
C361	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C364	1-124-779-00	ELECT CHIP 10uF 20% 16V	
C365	1-126-206-11	ELECT CHIP 100uF 20% 6.3V	
C366	1-126-206-11	ELECT CHIP 100uF 20% 6.3V	
C501	1-124-779-00	ELECT CHIP 10uF 20% 16V	
C502	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C503	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C504	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C505	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C510	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C511	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C513	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C521	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C522	1-162-912-11	CERAMIC CHIP 7PF 0.5PF 50V	
C523	1-162-912-11	CERAMIC CHIP 7PF 0.5PF 50V	
C524	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C525	1-126-193-11	ELECT 1uF 20% 50V	
C533	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C534	1-164-315-11	CERAMIC CHIP 470PF 5% 50V	
C535	1-110-563-11	CERAMIC CHIP 0.068uF 10% 16V	
C536	1-164-217-11	CERAMIC CHIP 150PF 5% 50V	
C537	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
C538	1-126-206-11	ELECT CHIP 100uF 20% 6.3V	
C539	1-117-863-11	CERAMIC CHIP 0.47uF 10% 6.3V	
C540	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C541	1-162-974-11	CERAMIC CHIP 0.01uF 50V	
C542	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C543	1-164-315-11	CERAMIC CHIP 470PF 5% 50V	
C544	1-117-863-11	CERAMIC CHIP 0.47uF 10% 6.3V	
C545	1-126-193-11	ELECT 1uF 20% 50V	
C546	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C547	1-126-193-11	ELECT 1uF 20% 50V	
C548	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C549	1-162-913-11	CERAMIC CHIP 8PF 0.50PF 50V	
C550	1-162-913-11	CERAMIC CHIP 8PF 0.50PF 50V	
C551	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C552	1-126-193-11	ELECT 1uF 20% 50V	
C561	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C566	1-126-206-11	ELECT CHIP 100uF 20% 6.3V	

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
C567	1-164-156-11	CERAMIC CHIP	0.1uF	25V			
C570	1-162-967-11	CERAMIC CHIP	0.0033uF	10%			
C571	1-164-156-11	CERAMIC CHIP	0.1uF	25V			
C572	1-164-156-11	CERAMIC CHIP	0.1uF	25V			
C573	1-164-156-11	CERAMIC CHIP	0.1uF	25V			
C574	1-164-156-11	CERAMIC CHIP	0.1uF	25V			
C575	1-126-206-11	ELECT CHIP	100uF	20%	6.3V		
C576	1-126-206-11	ELECT CHIP	100uF	20%	6.3V		
C581	1-164-156-11	CERAMIC CHIP	0.1uF	25V			
C582	1-124-779-00	ELECT CHIP	10uF	20%	16V		
C583	1-164-156-11	CERAMIC CHIP	0.1uF	25V			
C584	1-164-156-11	CERAMIC CHIP	0.1uF	25V			
C596	1-124-779-00	ELECT CHIP	10uF	20%	16V		
C597	1-124-779-00	ELECT CHIP	10uF	20%	16V		
< CONNECTOR >							
CN101	1-784-327-21	CONNECTOR, FFC/FPC 28P					
CN201	1-778-874-11	CONNECTOR, FFC(LIF(NON-ZIF))19P					
CN301	1-794-509-11	PIN, CONNECTOR (PC BOARD) (3P)					
< FERRITE BEAD >							
FB201	1-469-869-21	FERRITE	0uH				
FB251	1-469-869-21	FERRITE	0uH				
FB252	1-469-869-21	FERRITE	0uH				
FB360	1-469-869-21	FERRITE	0uH				
FB501	1-469-869-21	FERRITE	0uH				
FB502	1-469-869-21	FERRITE	0uH				
FB503	1-469-869-21	FERRITE	0uH				
FB504	1-469-869-21	FERRITE	0uH				
FB561	1-469-869-21	FERRITE	0uH				
< FILTER >							
FL201	1-234-177-21	FERRITE	0uH				
FL501	1-234-177-21	FERRITE	0uH				
FL502	1-234-177-21	FERRITE	0uH				
FL503	1-234-177-21	FERRITE	0uH				
FL504	1-234-177-21	FERRITE	0uH				
< IC >							
IC102	8-759-701-40	IC NJM2100M(TE2)					
IC201	6-700-399-01	IC uPC2925T-E1					
IC202	8-759-460-72	IC BA033FP-E2					
IC307	6-702-001-01	IC BD7600FV-E2					
IC504	8-759-825-13	IC PCM1748E/2K					
IC505	8-752-417-93	IC CXD1887R					
IC506	6-702-000-01	IC BU2507FV-E2					
IC507	6-702-571-01	IC VG3612816BT-7L					
IC508	6-803-237-01	IC MR27V401E-OF3MAZ060					
< JUMPER WIRE >							
JW203	1-216-864-11	METAL CHIP	0	5%	1/10W		
< COIL >							
L102	1-410-373-31	INDUCTOR	2.2uH				
L321	1-410-381-11	INDUCTOR CHIP	10uH				
< TRANSISTOR >							
Q201	8-729-140-75	TRANSISTOR	2SD999-CLCK				
Q301	8-729-602-36	TRANSISTOR	2SA1602-F				
Q370	8-729-028-96	TRANSISTOR	DTC114EUA-T106				
Q581	8-729-602-21	TRANSISTOR	2SC4154-F				
						< RESISTOR >	
R102	1-216-809-11	METAL CHIP	100	5%	1/10W		
R107	1-216-833-11	METAL CHIP	10K	5%	1/10W		
R108	1-216-823-11	METAL CHIP	1.5K	5%	1/10W		
R109	1-216-823-11	METAL CHIP	1.5K	5%	1/10W		
R114	1-216-825-11	METAL CHIP	2.2K	5%	1/10W		
R115	1-216-825-11	METAL CHIP	2.2K	5%	1/10W		
R152	1-216-809-11	METAL CHIP	100	5%	1/10W		
R157	1-216-833-11	METAL CHIP	10K	5%	1/10W		
R158	1-216-823-11	METAL CHIP	1.5K	5%	1/10W		
R159	1-216-823-11	METAL CHIP	1.5K	5%	1/10W		
R201	1-216-809-11	METAL CHIP	100	5%	1/10W		
R202	1-216-809-11	METAL CHIP	100	5%	1/10W		
R321	1-216-813-11	METAL CHIP	220	5%	1/10W		
R322	1-216-864-11	METAL CHIP	0	5%	1/10W		
R323	1-216-817-11	METAL CHIP	470	5%	1/10W		
R375	1-211-990-11	METAL CHIP	75	0.5%	1/10W		
R376	1-216-833-11	METAL CHIP	10K	5%	1/10W		
R502	1-216-827-11	METAL CHIP	3.3K	5%	1/10W		
R503	1-216-809-11	METAL CHIP	100	5%	1/10W		
R504	1-216-809-11	METAL CHIP	100	5%	1/10W		
R505	1-216-809-11	METAL CHIP	100	5%	1/10W		
R506	1-216-809-11	METAL CHIP	100	5%	1/10W		
R507	1-216-809-11	METAL CHIP	100	5%	1/10W		
R508	1-216-809-11	METAL CHIP	100	5%	1/10W		
R509	1-216-809-11	METAL CHIP	100	5%	1/10W		
R510	1-216-809-11	METAL CHIP	100	5%	1/10W		
R511	1-216-809-11	METAL CHIP	100	5%	1/10W		
R512	1-216-809-11	METAL CHIP	100	5%	1/10W		
R513	1-216-833-11	METAL CHIP	10K	5%	1/10W		
R516	1-216-829-11	METAL CHIP	4.7K	5%	1/10W		
R517	1-216-826-11	METAL CHIP	2.7K	5%	1/10W		
R522	1-216-833-11	METAL CHIP	10K	5%	1/10W		
R531	1-216-845-11	METAL CHIP	100K	5%	1/10W		
R532	1-216-829-11	METAL CHIP	4.7K	5%	1/10W		
R533	1-216-839-11	METAL CHIP	33K	5%	1/10W		
R534	1-216-864-11	METAL CHIP	0	5%	1/10W		
R537	1-216-864-11	METAL CHIP	0	5%	1/10W		
R538	1-216-833-11	METAL CHIP	10K	5%	1/10W		
R541	1-216-864-11	METAL CHIP	0	5%	1/10W		
R542	1-216-864-11	METAL CHIP	0	5%	1/10W		
R543	1-216-853-11	METAL CHIP	470K	5%	1/10W		
R544	1-216-857-11	METAL CHIP	1M	5%	1/10W		
R545	1-216-821-11	METAL CHIP	1K	5%	1/10W		
R546	1-216-848-11	METAL CHIP	180K	5%	1/10W		
R547	1-216-833-11	METAL CHIP	10K	5%	1/10W		
R548	1-216-855-11	METAL CHIP	680K	5%	1/10W		
R549	1-216-845-11	METAL CHIP	100K	5%	1/10W		
R550	1-216-833-11	METAL CHIP	10K	5%	1/10W		
R551	1-218-852-11	METAL CHIP	1.6K	5%	1/10W		
R552	1-216-820-11	METAL CHIP	820	5%	1/10W		
R554	1-216-797-11	METAL CHIP	10	5%	1/10W		
R555	1-216-797-11	METAL CHIP	10	5%	1/10W		
R556	1-216-797-11	METAL CHIP	10	5%	1/10W		
R557	1-216-797-11	METAL CHIP	10	5%	1/10W		
R558	1-216-857-11	METAL CHIP	1M	5%	1/10W		
R559	1-216-817-11	METAL CHIP	470	5%	1/10W		
R561	1-216-821-11	METAL CHIP	1K	5%	1/10W		
R581	1-216-809-11	METAL CHIP	100	5%	1/10W		
R582	1-216-817-11	METAL CHIP	470	5%	1/10W		

HCD-XGV11AV

VIDEO

Ref. No.	Part No.	Description	Remarks
		< VIBRATOR >	
X501	1-767-518-11	VIBRATOR, CRYSTAL (33.8688MMHz)	
X502	1-767-519-11	VIBRATOR, CRYSTAL (27MHz)	

MISCELLANEOUS			

△	1-569-008-22	ADAPTOR, CONVERSION 2P	
4	1-693-603-41	TUNER (FM/AM)	
5	1-769-945-11	WIRE (FLAT TYPE) (11 CORE)	
67	1-773-114-11	WIRE (FLAT TYPE) (19 CORE) (150mm)	
111	1-773-108-11	WIRE (FLAT TYPE) (19 CORE) (100mm)	
112	1-769-977-11	WIRE (FLAT TYPE) (13 CORE) (150mm)	
126	1-769-986-11	WIRE (FLAT TYPE) (13 CORE) (270mm)	
127	1-796-487-31	DECK, MECHANICAL (CWM43RR23)	
151	1-925-122-81	WIRE (FLAT TYPE) (28 CORE)	
△ 156	1-777-071-53	CORD, POWER	
164	1-925-122-71	WIRE (FLAT TYPE) (19 CORE)	
△ 551	A-4735-189-A	OP ASSY (A-MAX.3)	
555	1-782-817-11	WIRE (FLAT TYPE) (16 CORE)	
△ F951	1-532-506-31	FUSE (T6.3A/250V)	
△ F961	1-533-949-31	FUSE, CYLINDRICAL (TIME LUG) (T8.0A/250V)	
△ F962	1-533-949-31	FUSE, CYLINDRICAL (TIME LUG) (T8.0A/250V)	
△ F963	1-532-506-31	FUSE (T6.3A/250V)	
△ F964	1-532-506-31	FUSE (T6.3A/250V)	
FL601	1-518-794-11	INDICATOR TUBE, FLUORESCENT	
M201	A-4660-977-A	MOTOR ASSY	
M901	1-763-072-11	FAN, DC	
△ T951	1-439-875-11	TRANSFORMER, POWER	

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

MEMO

