HCD-GNX780/GNX880

SERVICE MANUAL

Mexican Model

Ver. 1.1 2006.09

Photo: HCD-GNX880

- HCD-GNX780/GNX880 is the Amplifier, Disc player, tape deck and tuner section in MHC-GNX780/GNX880.

CD Section	Model Name Using Similar Mechanism	HCD-GN880
	CD Mechanism Type	CDM74KF-F1BD84
	Base Unit Name	BU-F1BD84
	Optical Pick-up Name	KSM-215DCP/C2NP
TAPE Section	Model Name Using Similar Mechanism	HCD-GNX80
	Tape Transport Mechanism Type	CWN42FF601

SPECIFICATIONS

Amplifier section

HCD-GNX880

The following are measured at AC 127 V, 60 Hz
Front/Surround speaker
DIN power output (rated) 180 + 180 watts
(6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference)
225 + 225 watts
(6 ohms at 1 kHz, 10% THD)
Subwoofer
Continuous RMS power output (reference)
200 watts
(8 ohms at 100 Hz, 10% THD)

HCD-GNX780

The following are measured at AC 127 V, 60 Hz
Front speaker
DIN power output (rated) 210 + 210 watts
(4 ohms at 1 kHz, DIN)
Continuous RMS power output (reference)
285 + 285 watts
(4 ohms at 1 kHz, 10% THD)

Inputs
VIDEO/MD (AUDIO) IN (phono jacks):
voltage 250/450 mV,
impedance 47 kiloohms
TV (AUDIO) IN (phono jack): voltage 250 mV,
impedance 47 kiloohms
MIC (phone jack): sensitivity 1 mV,
impedance 10 kiloohms

Outputs
VIDEO OUT (phono jack): max. output level
1 Vp-p, unbalanced, Sync negative,
load impedance
75 ohms
PHONES (stereo mini jack): accepts headphones of 8 ohms or more
FRONT SPEAKER/SURROUND SPEAKER/
SUBWOOFER OUT: Use only the supplied speaker

– Continued on next page –

MiNi Hi-Fi COMPONENT SYSTEM

9-887-130-02
2006I02-1

Sony Corporation
Home Audio Division
Published by Sony Techno Create Corporation

SONY

Disc player section

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

OPTICAL CD DIGITAL OUT
(Square optical connector jack, rear panel)

Wave length	660 nm
Output Level	–18 dBm

Tape deck section

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

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range	87.5 – 108.0 MHz
Antenna	FM lead antenna
Antenna terminals	75 ohm unbalanced
Intermediate frequency	10.7 MHz

AM tuner section

Tuning range	530 – 1,710 kHz (with the interval set at 10 kHz) 531 – 1,710 kHz (with the interval set at 9 kHz)
Antenna	AM loop antenna
Antenna terminals	External antenna terminal
Intermediate frequency	450 kHz

General

Power requirements	127 V AC, 60Hz
Power consumption	
MHC-GNX880	350 watts
MHC-GNX780	250 watts
Dimensions (w/h/d) (Approx.)	281 × 362 × 404.5 mm
Mass (Approx.)	
HCD-GNX880	13.7 kg
HCD-GNX780	12.0 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.

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

Unleaded solder

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

: LEAD FREE MARK

Unleaded solder has the following characteristics.

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

SAFETY-RELATED COMPONENT WARNING!!

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

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SECTION 1
SERVICING NOTES

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

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

NOTES ON LASER DIODE EMISSION CHECK

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

LASER DIODE AND FOCUS SEARCH OPERATION CHECK

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

SECTION 2
GENERAL

This section is extracted from instruction manual.

LOCATING THE CONTROLS

Main unit

ALPHABETICAL ORDER

A – D

ALBUM +/– 19
AMP MENU 33
CD 40
CD SYNC 14
Deck A 34
Deck B 22
DELAY 31
DIRECTION 23
DISC 1 ~ 3 1
Disc tray 12
DISPLAY 6
Display 10

E – L

ECHO LEVEL 26
ENTER 25
EQ BAND 24
EX-CHANGE/DISC SKIP 2
FLANGER 7
GROOVE 20
ILLUMINATION 5
IR Receptor 41
KARAOKE 23

M – R

MASTER VOLUME 28
MIC 1/2 (jack) 29
MIC 1/2 LEVEL 27
MP3 BOOSTER 11
OPEN/CLOSE 3
OPERATION DIAL 4
PHONES (jack) 32
Power illuminator 9
REC PAUSE/START 13

S – Z

SOUND FLASH 30
SURROUND[1] 8
SURR SPEAKER MODE[2] 8
TAPE A/B 38
Tape lid 22 34
TUNER/BAND 39
TUNING +/– 18
TV 37
VIDEO/MD 36

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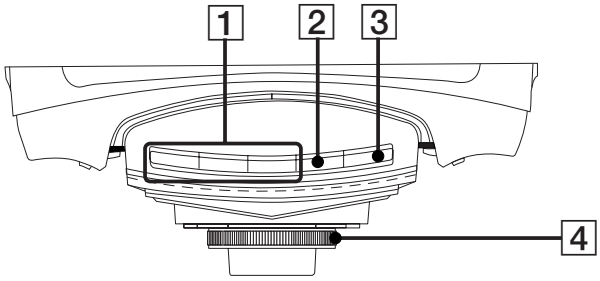
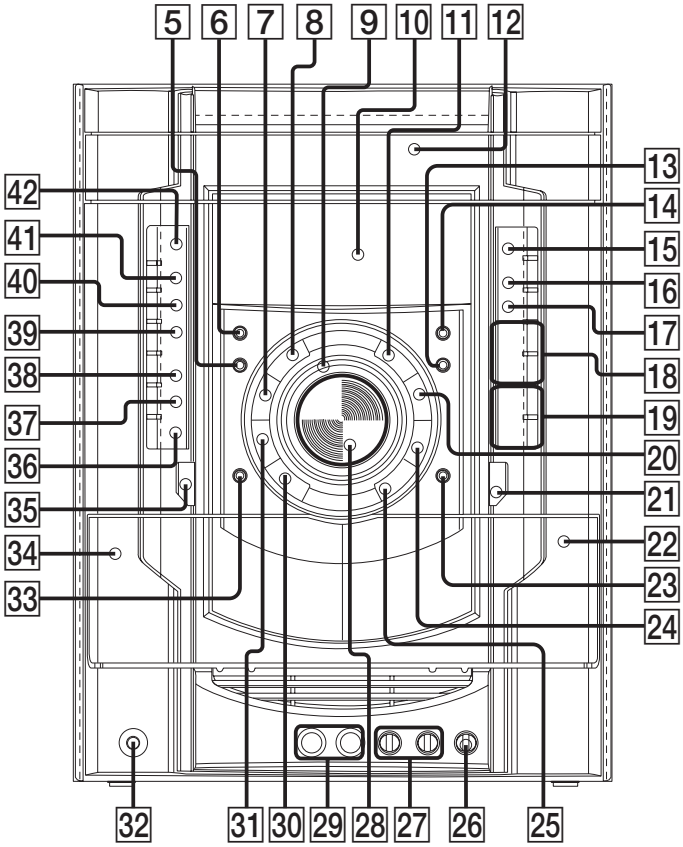
I/⏻ (power) 42
⏏ OPEN/CLOSE 3
► (play) 15
▶▶I/I◀◀ (forward/go backward) 18
▶▶/◀◀ (fast forward/rewind) 19
II (pause) 16
■ (stop) 17
A ⏏ (Eject A) 35
B ⏏ (Eject B) 21

[1] For MHC-GNX780
[2] For MHC-GNX880

Top Panel



Front Panel



This section is extracted from instruction manual.

Remote control

ALPHABETICAL ORDER

A – E

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

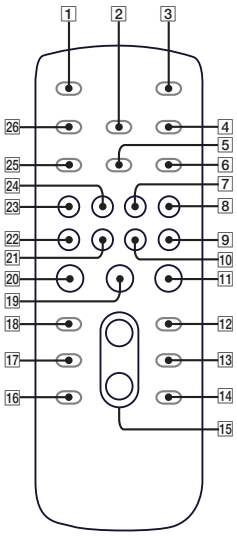
F – Z

FM MODE 6
FUNCTION 8
PLAY MODE 5
REPEAT 6
SLEEP 1
TAPE 23
TUNER/BAND 7
TUNER MEMORY 25
TUNING MODE 5
VOLUME +/– 15
The + button has a tactile dot.*

SYMBOLS

I/⏻ (power) 3
■ (stop) 11
❚❚ (pause) 19
► (play) 20
–I◄◄ (go backward) 22
►►I+ (go forward) 21
◄◄ (rewind) 10
►► (fast forward) 9

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



Setting the clock

Use buttons on the remote for the operation.

1 Press I/⏻ to turn on the system.

2 Press CLOCK/TIMER SET.

"CLOCK" appears in the display. Then, the hour indication flashes in the display.

3 Press –I◄◄ or ►►I+ repeatedly to set the hour.

4 Press ENTER.

The minute indication flashes in the display.

5 Press –I◄◄ or ►►I+ repeatedly to set the minute.

6 Press ENTER.

The clock starts functioning.

To adjust the clock

1 Press CLOCK/TIMER SET.
"SET" appears in the display, then "PLAY SET?" flashes in the display.

2 Press –I◄◄ or ►►I+ repeatedly to select "CLOCK SET?", then press ENTER.
The hour indication flashes in the display.

3 Do the same procedures as step 3 to 6 above.

Notes

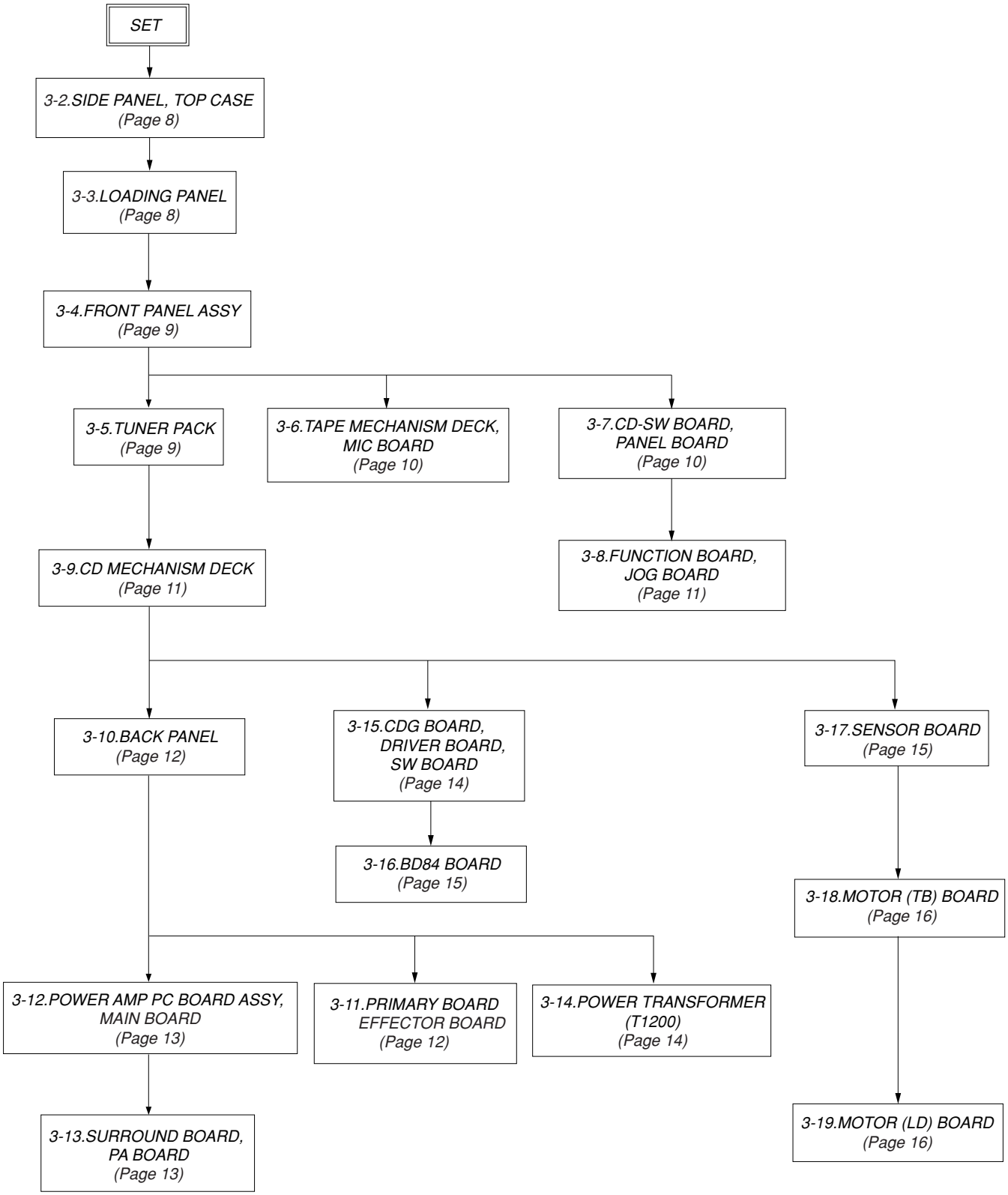
The clock settings are canceled when you disconnect the power cord or if a power failure occurs.

You cannot set the clock in Power Saving Mode.

SECTION 3
DISASSEMBLY

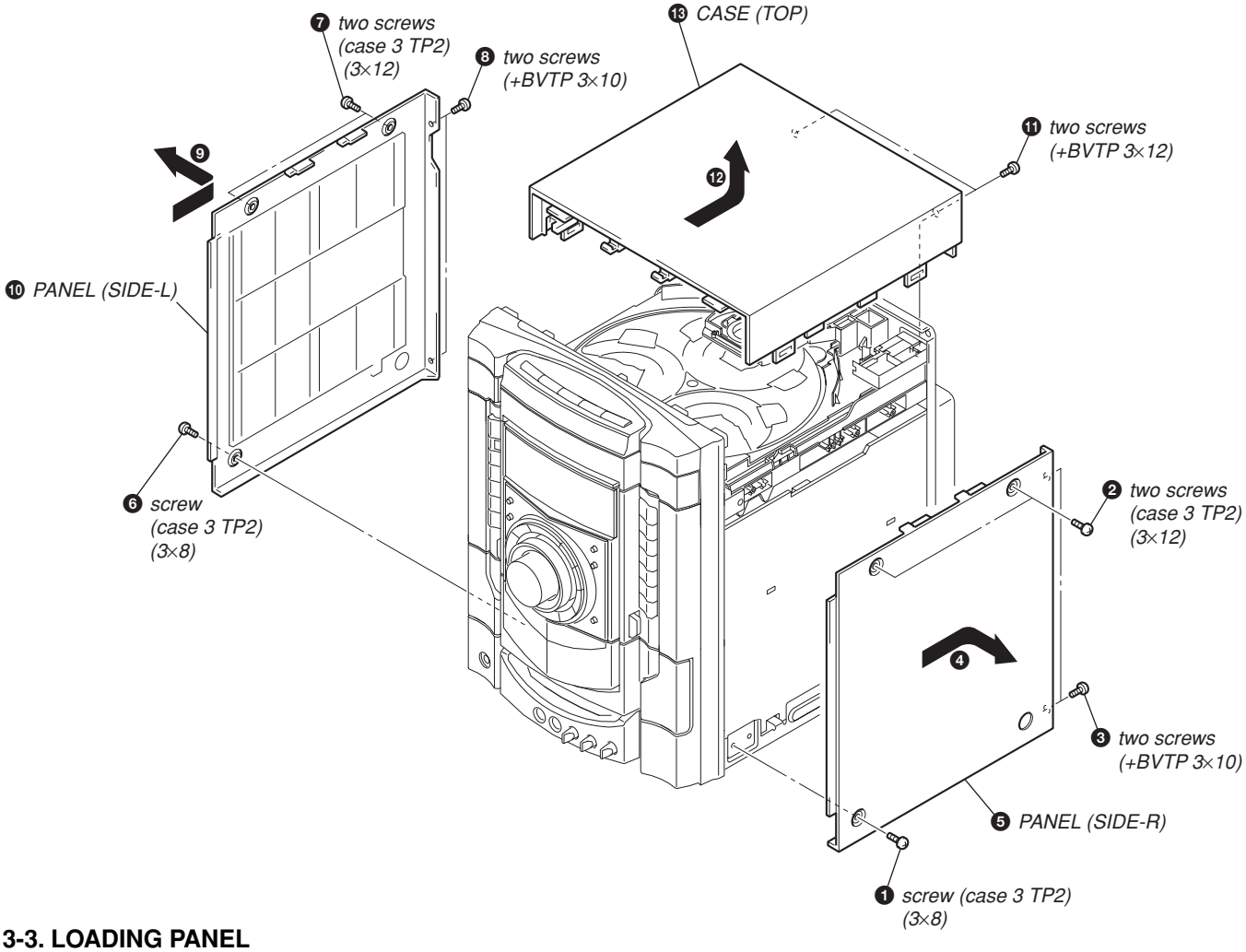
• This set can be disassembled in the order shown below.

3-1. DISASSEMBLY FLOW

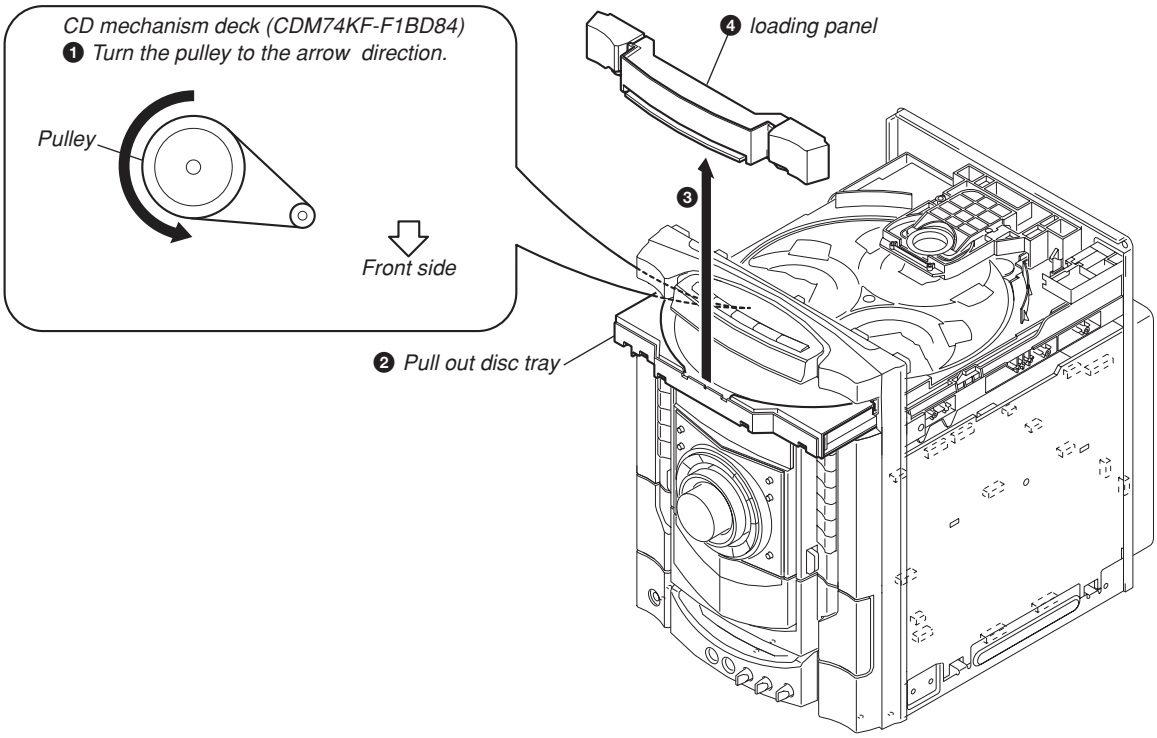


Note: Follow the disassembly procedure in the numerical order given.

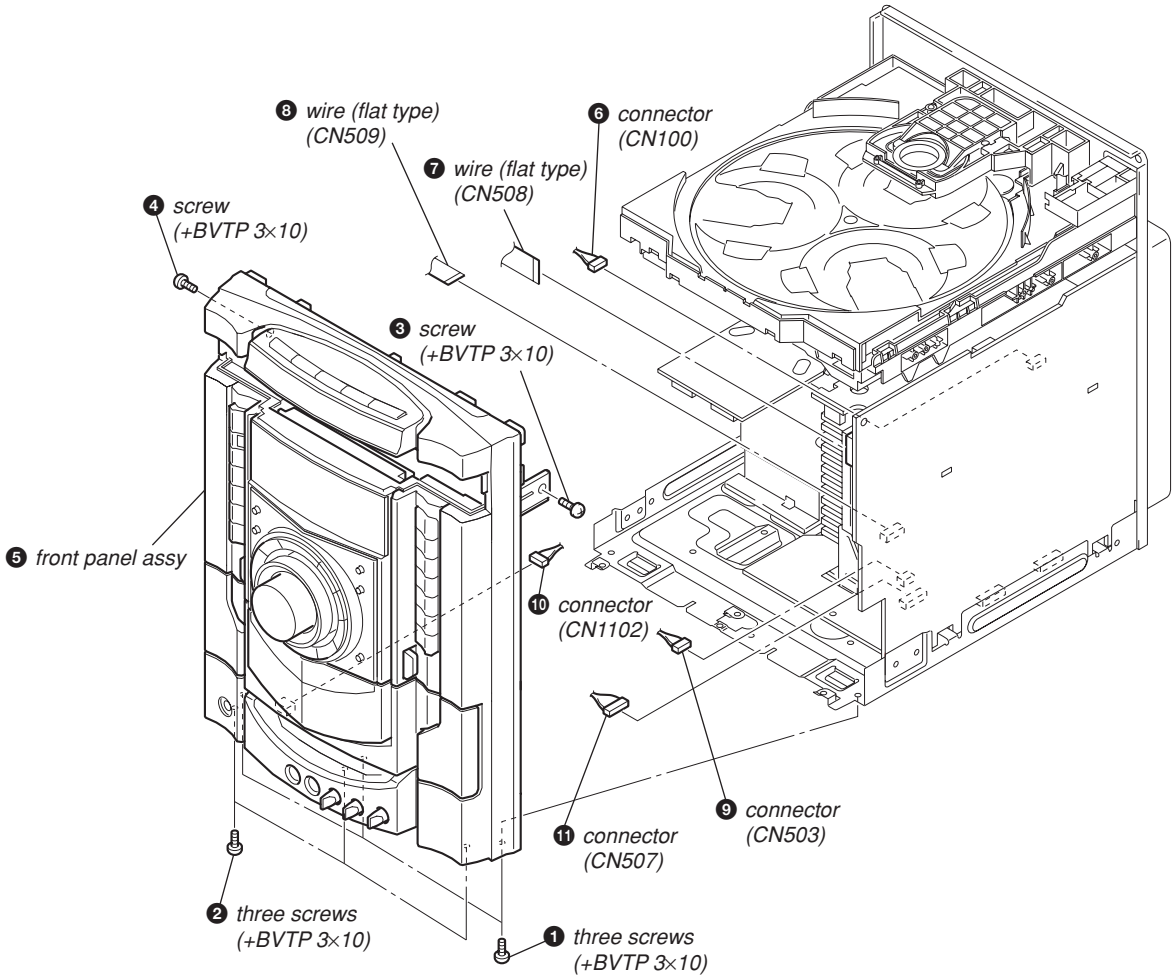
3-2. SIDE PANEL, TOP CASE



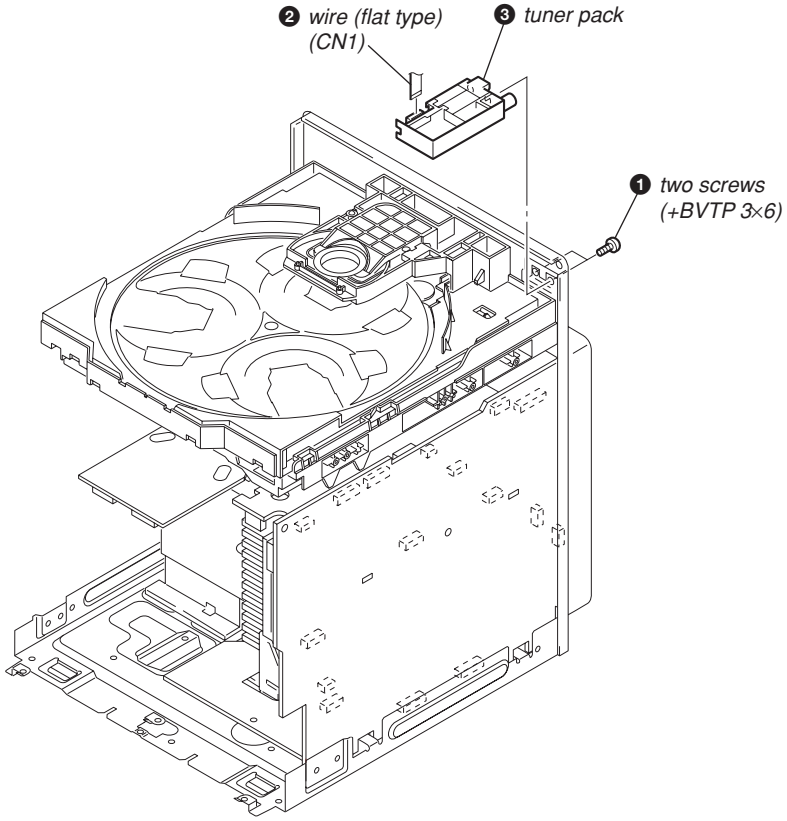
3-3. LOADING PANEL



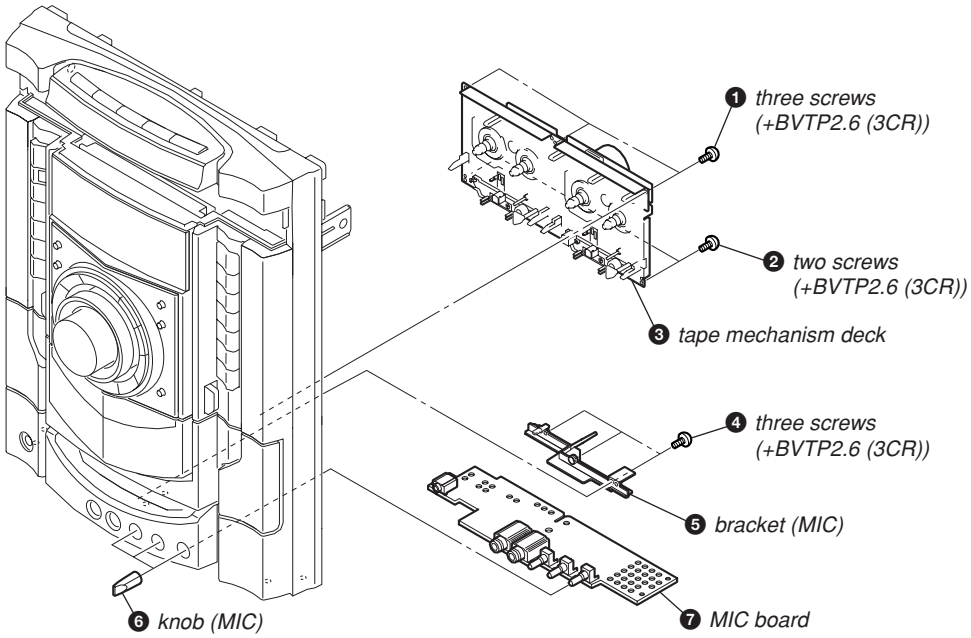
3-4. FRONT PANEL ASSY



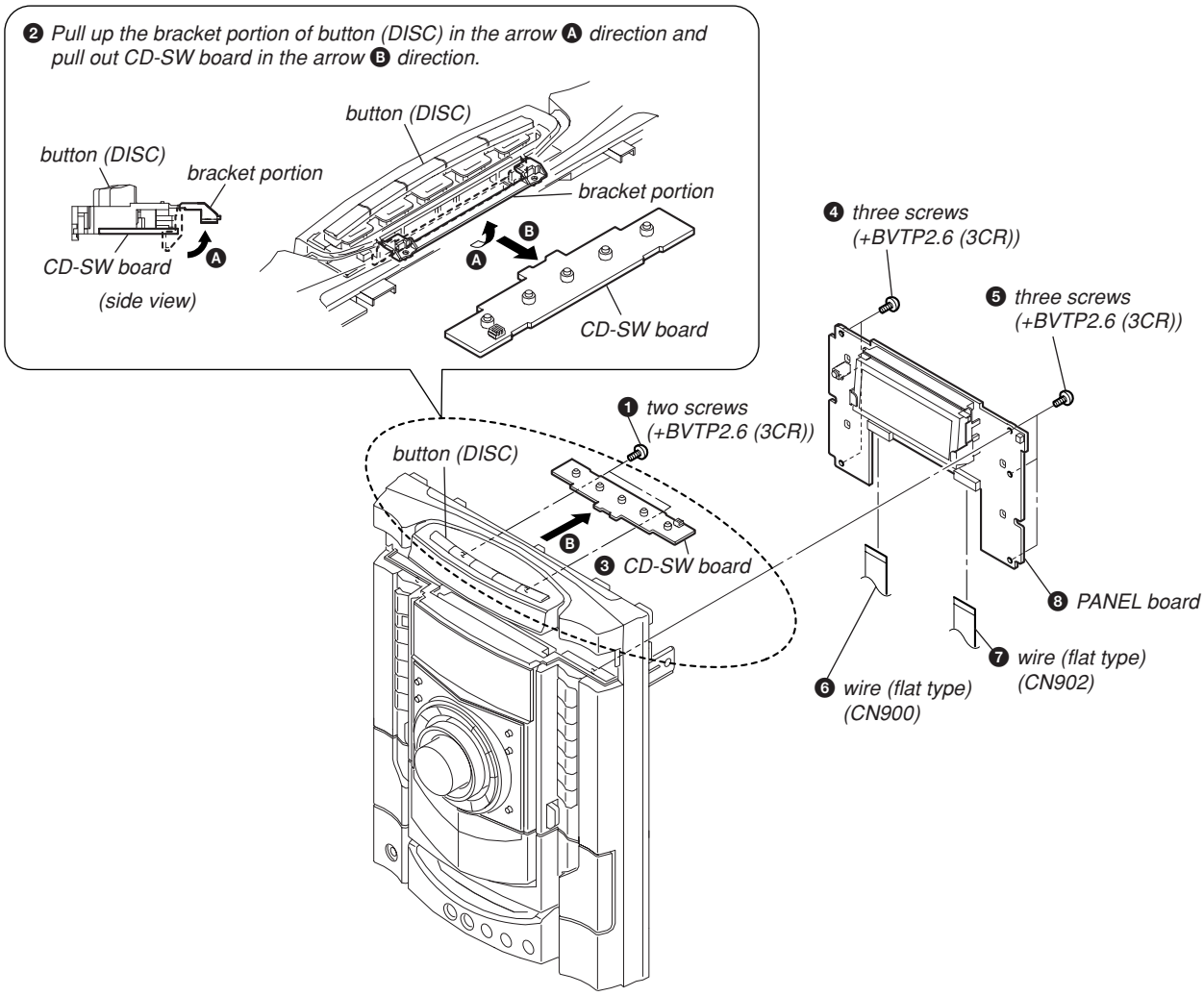
3-5. TUNER PACK



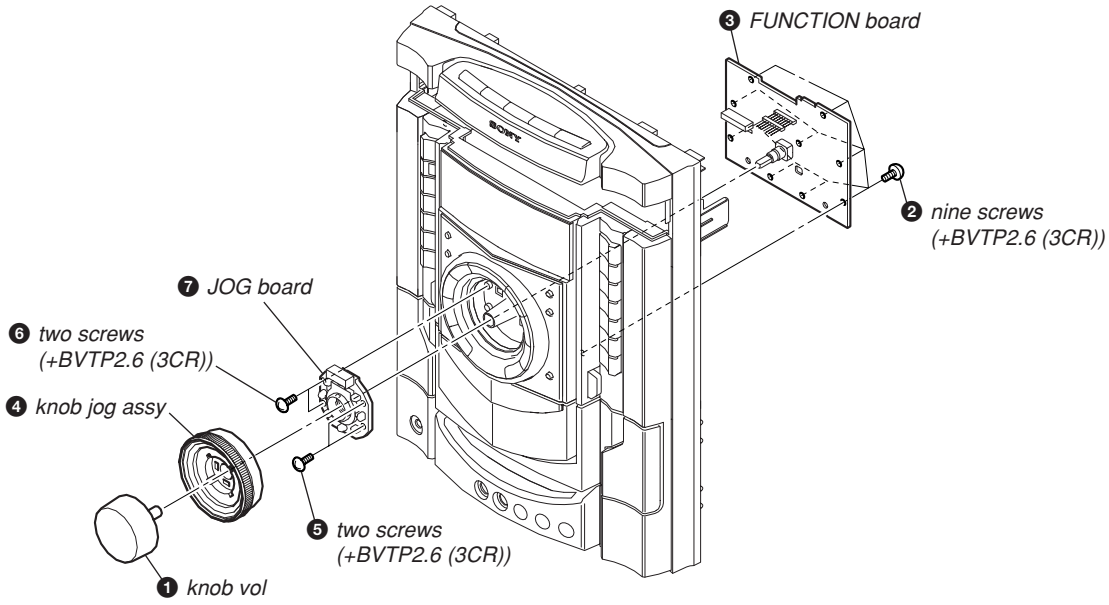
3-6. TAPE MECHANISM DECK, MIC BOARD



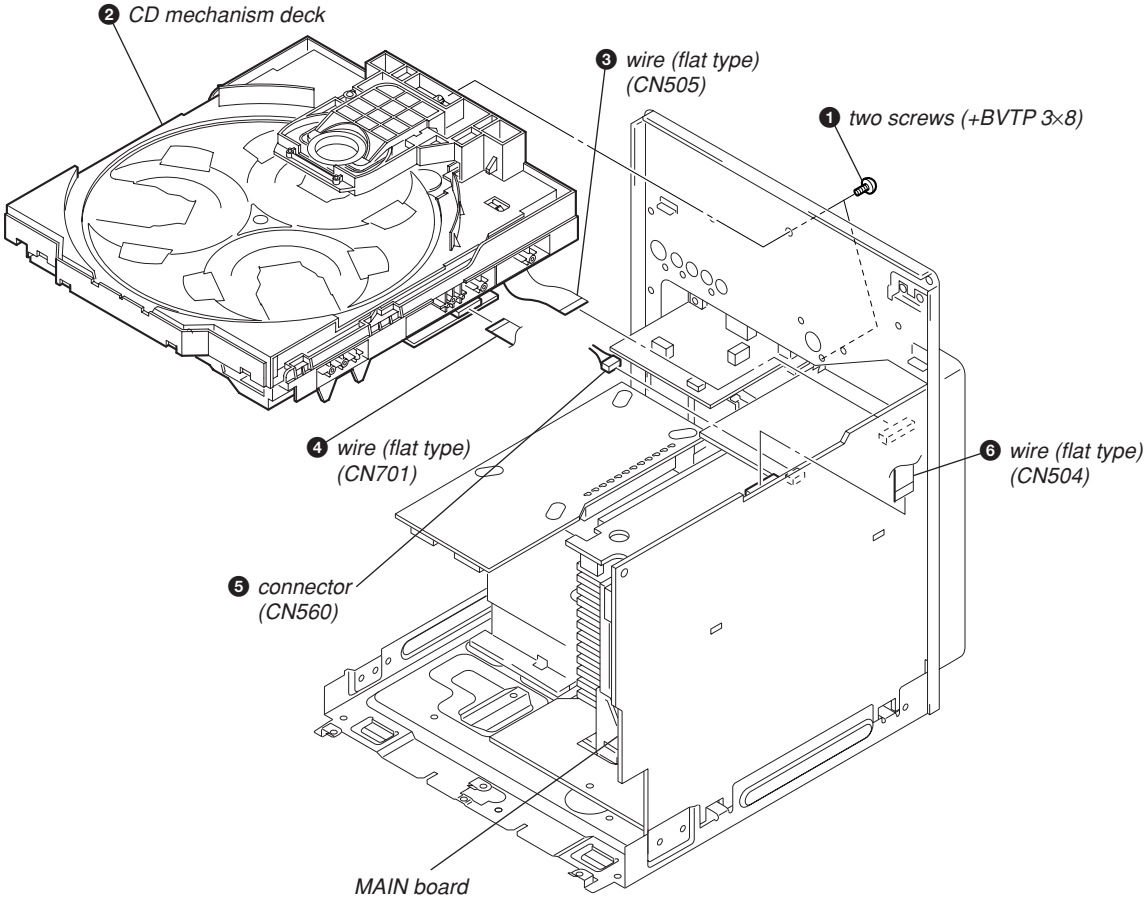
3-7. CD-SW BOARD, PANEL BOARD



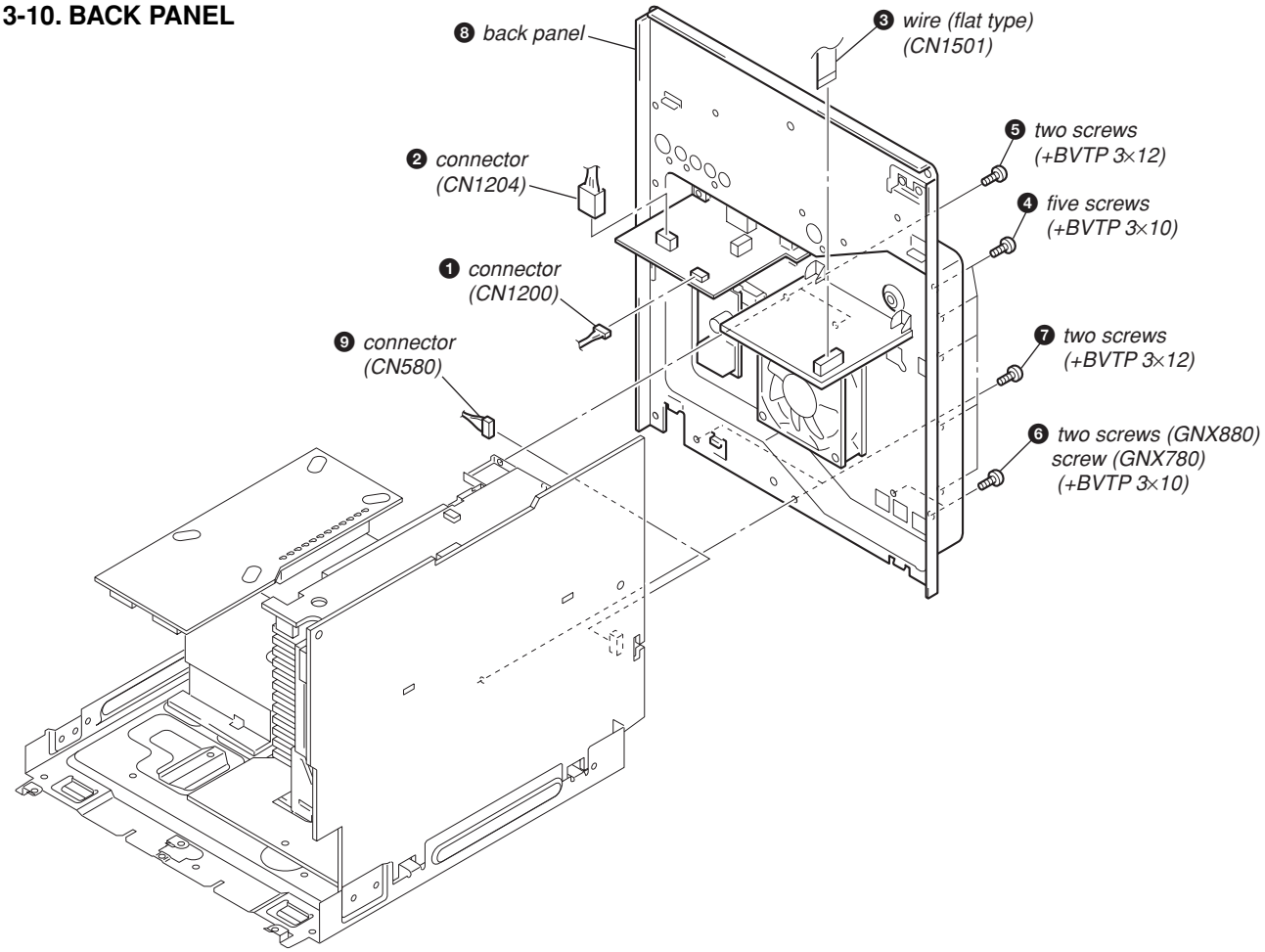
3-8. FUNCTION BOARD, JOG BOARD



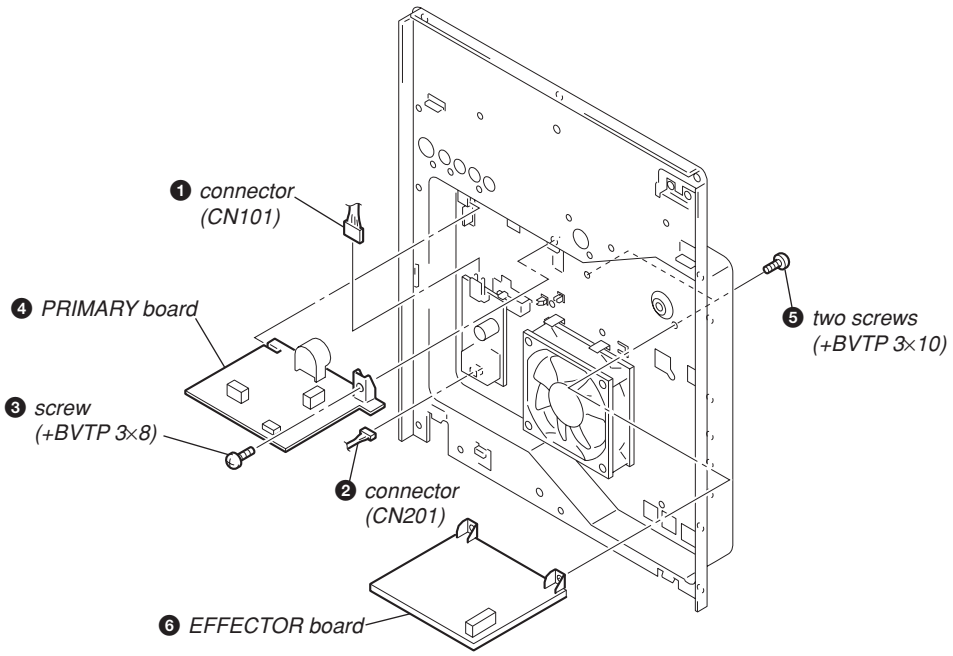
3-9. CD MECHANISM DECK



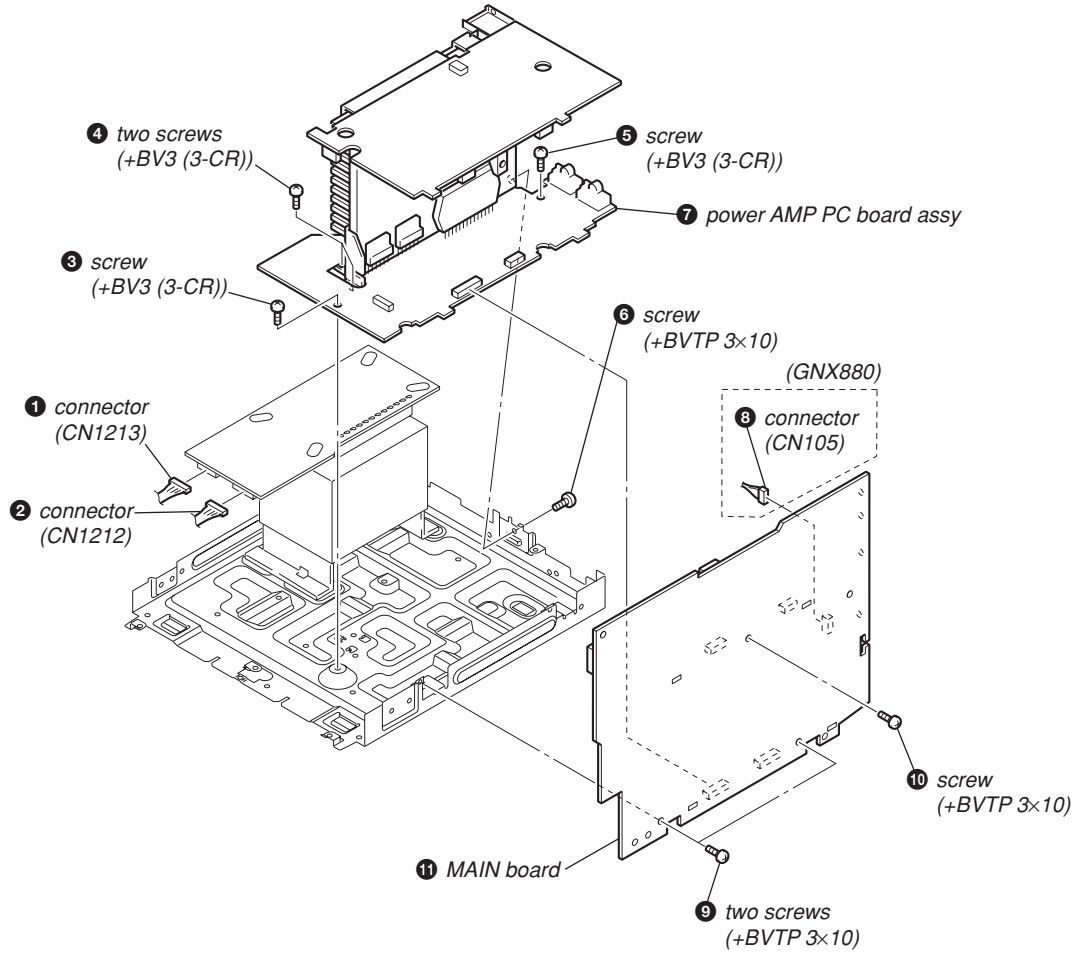
3-10. BACK PANEL



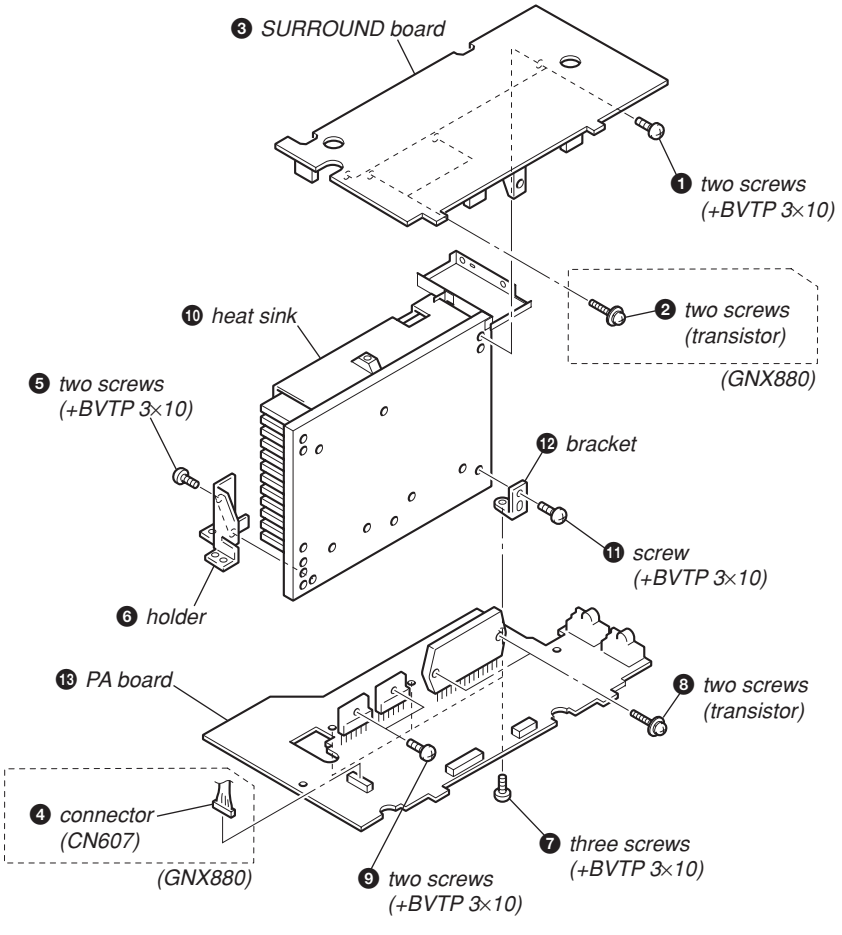
3-11. PRIMARY BOARD, EFFECTOR BOARD



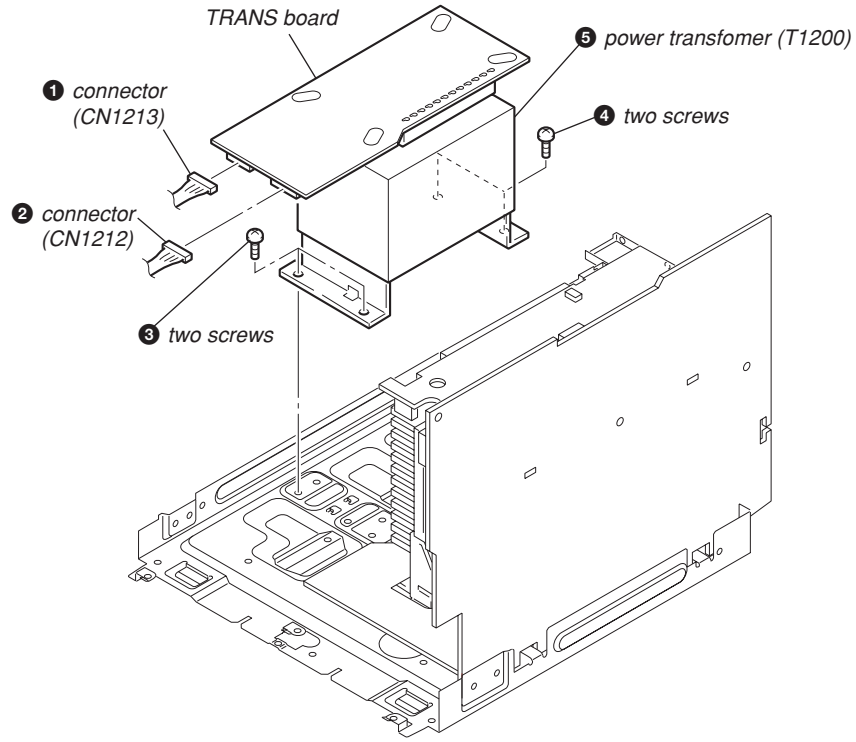
3-12. POWER AMP PC BOARD ASSY, MAIN BOARD



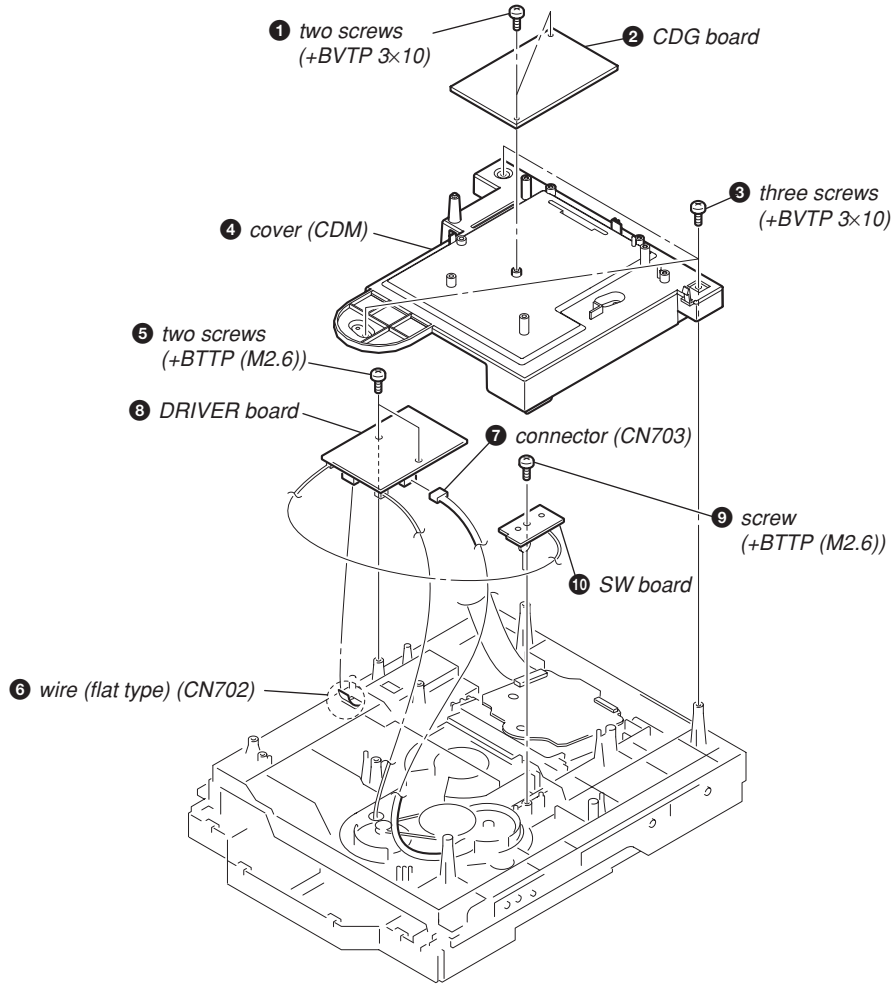
3-13. SURROUND BOARD, PA BOARD



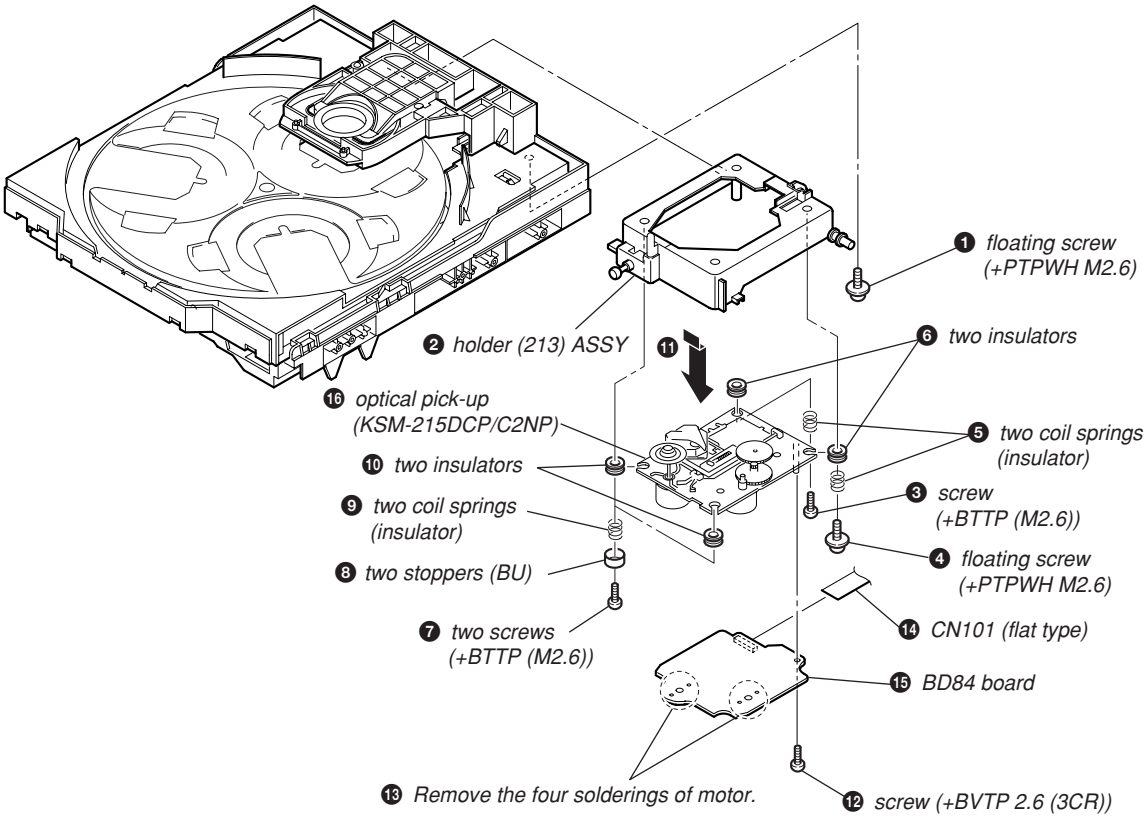
3-14. POWER TRANSFORMER (T1200)



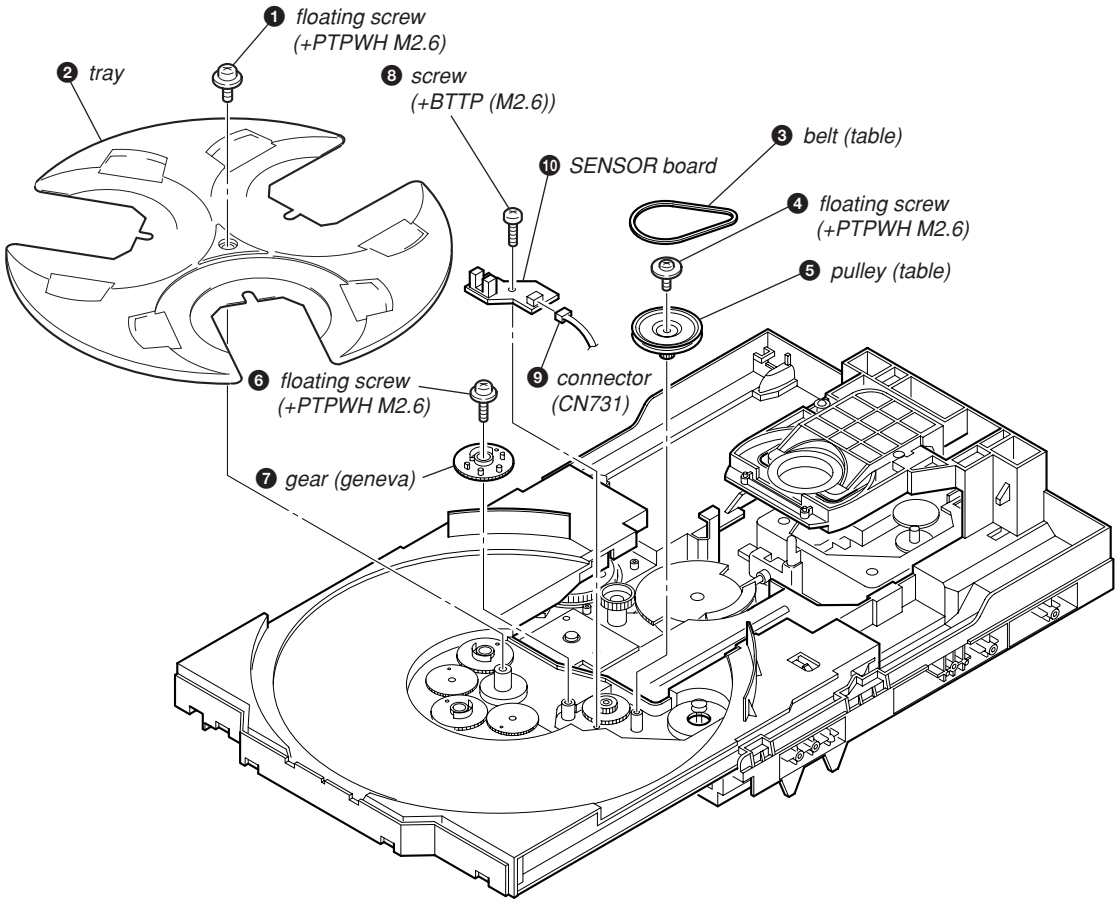
3-15. CDG BOARD, DRIVER BOARD, SW BOARD



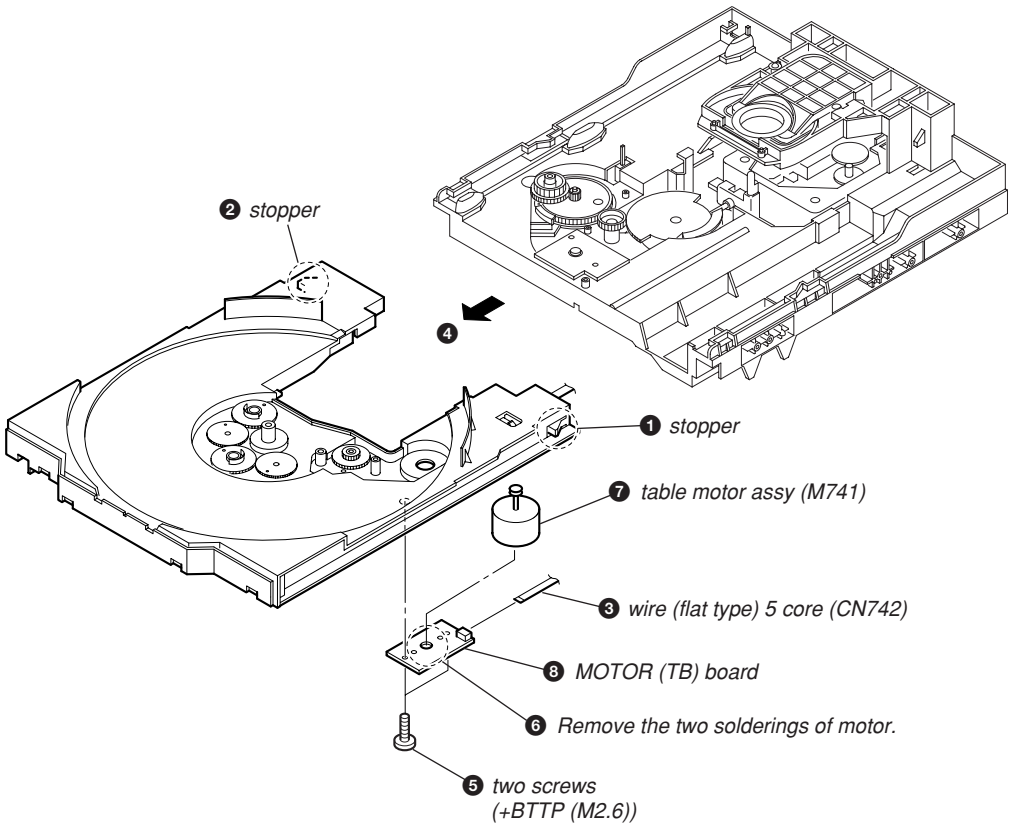
3-16. BD84 BOARD



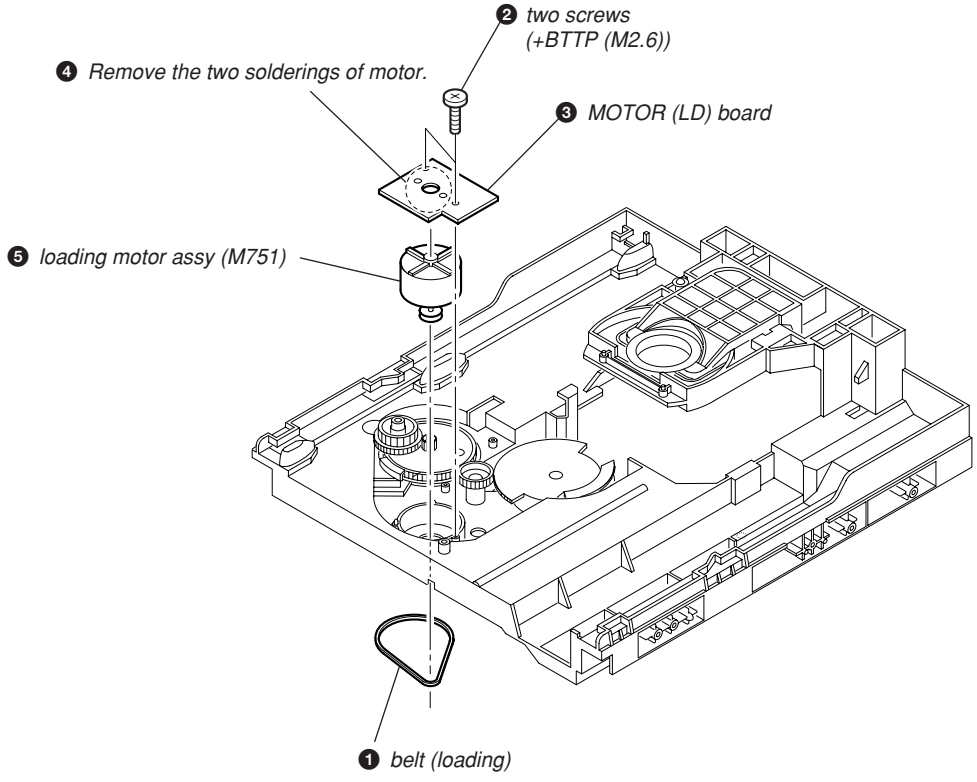
3-17. SENSOR BOARD



3-18. MOTOR (TB) BOARD



3-19. MOTOR (LD) BOARD



SECTION 4
TEST MODE

[GC TEST MODE]

- This mode is used to check the fluorescent indicator tube, LEDs, keys, VOLUME jog, OPERATION DIAL jog, AMS jog, destination, software version and VACS level.

Procedure:

1. Press ■ button, ENTER button and DISC 2 button- simultaneously.
2. All LEDs and segments in fluorescent indicator tube are lighted up. All LEDs are lighted up in red color.
3. When you want to enter the software version display mode, press DISC 1 button. The model is displayed.
   Press DISC 1 button again to show destination.
4. Each time DISC 1 button is pressed, the display changes from MC version, GC version, SYS version, CD version, CDDM version, CDMA version, CDMB version, BDA version, BDB version, ST version, TC version, TA version, TM version in this order, and returns to the MC version display.
5. When DISC 3 button is pressed while the version numbers are being displayed except model and destination, the date of the software creation appear. When DISC 3 button is pressed again, the display returns to the software version display. When DISC 1 button is pressed while the date of the software creation is being displayed, the date of the software creation is displayed in the same order of software version display.
6. Press DISC 2 button, the key check mode is activated.
7. In the key check mode, the fluorescent indicator tube displays "K 0 V0J0".
   Each time a button is pressed, "K" value increases. However, once a button has been pressed, it is no longer taken into account.
   "V" value increases in the manner of 0,1, 2, 3 ... if VOLUME knob is turned clockwise, or it decreases in the manner of 0, 9, 8, 7 ... if VOLUME knob is turned counter-clockwise.
   "J" value increases in the manner of 0,1, 2, 3 ... if OPERATION DIAL knob is turned clockwise, or it decreases in the manner of 0, 9, 8, 7 ... if OPERATION DIAL knob is turned counter-clockwise.
8. When DISC 3 button is pressed after all LEDs and segments in fluorescent indicator tube light up, the fluorescent indicator tube displays "VACS A+B FAPC". A is VACS level which is trigger by signal level, B is VACS level which is trigger by temperature and C is VACS level which is trigger by APVACS (Abuse Protection VACS).
   F is shown if the fan is turned in high speed and vice-versa.
   The signal level, which will trigger VACS A is shown in the center area of fluorescent indicator tube.
9. When EX-CHANGE/DISC SKIP button is pressed after all LEDs and segments in fluorescent indicator tube light up, alternate segments in fluorescent indicator tube would light up. If you press EX-CHANGE/DISC SKIP button again, another half of alternate segments in fluorescent indicator tube would light up. Pressing EX-CHANGE/DISC SKIP button again would cause all segments lights up.
10. To release this mode, press three buttons in the same manner as step 1, or disconnect the power cord.

[MC TEST MODE]

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

Procedure:

* To enter MC Test Mode

1. Press ■ button, ENTER button and DISC 3 button simultaneously.
2. The CD ring indicators TAPE A and B indicators flash on the fluorescent indicator tube. The function is changed to TV.

* Check of Amplifier

1. Press EQ BAND button repeatedly until a message "GEQ MAX" appears on the fluorescent indicator tube. GEQ increases to its maximum.
2. Press EQ BAND button repeatedly until a message "GEQ MIN" appears on the fluorescent indicator tube. GEQ decreases to its minimum.
3. Press EQ BAND button repeatedly until a message "GEQ FLAT" appears on the fluorescent indicator tube. GEQ is set to flat.
4. When the VOLUME knob is turned clockwise even slightly, the sound volume increases to its maximum and a message "VOLUME MAX" appears on the fluorescent indicator tube.
5. When the VOLUME knob is turned counter-clockwise even slightly, the sound volume decreases to its minimum and a message "VOLUME MIN" appears on the fluorescent indicator tube.

* Tape function

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

* To release MC Test mode.

1. To release this mode, press I/⏻ button.
2. The cold reset is enforced at the same time.

[COLD RESET]

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

Procedure:

1. Press ■ button, ENTER button, and I/⏻ button simultaneously.
2. The fluorescent indicator tube becomes blank for a while, and the set is reset.

[VACS ON/OFF]

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

Procedure:

1. Press [I/⏻] button to turn the set ON.
2. Press [■] button and [ILLUMINATION] button simultaneously. The message "VACS OFF" or "VACS ON" appears on the fluorescent indicator tube.

[TUNER STEP CHANGE]

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

Procedure:

1. Press [I/⏻] button to turn the set ON.
2. Press [TUNER/BAND] button to select the "AM".
3. Press [I/⏻] button to turn the set OFF.
4. Press [ENTER] button and [I/⏻] button simultaneously. The system will turn ON automatically. The message "AM 9k STEP" or AM 10k STEP" appears on the fluorescent indicator tube and thus the channel step is changed.

[CD SERVICE MODE]

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

Procedure:

1. Press [I/⏻] button to turn the set ON.
2. Select CD function.
3. Press [■] , [ENTER] button, and [⏏ OPEN/CLOSE] button simultaneously.
4. The CD service mode is activated. The message "SERVICE MODE" appears on the fluorescent indicator tube.
5. With the CD in stop status, press [▶▶] to move the optical pick-up to outside track, or press [◀◀] to move to inside track. The message "SLED OUT" or "SLED IN" appears on the fluorescent indicator tube.
6. To turn on or off the laser, press [DIRECTION] button. The message "LD ON" or "LD OFF" appears on the fluorescent indicator tube.
7. To release this mode, press [I/⏻] button.

[CD AGING MODE]

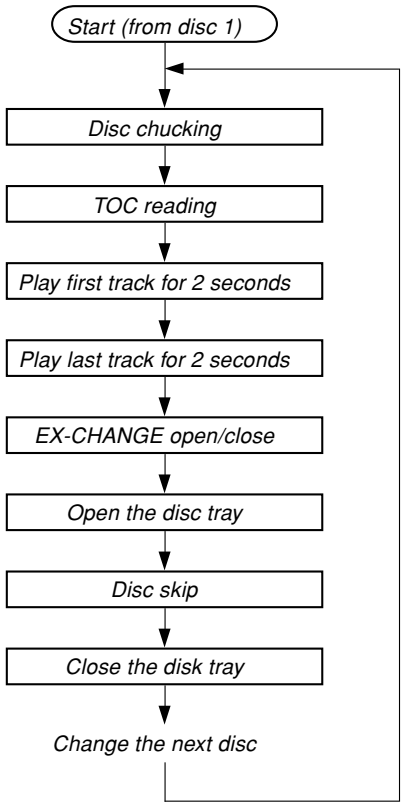
This mode can be used for operation check of CD section.

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

Procedure:

1. Press [I/⏻] button to turn the set ON
2. Select CD function.
3. Load three discs on the disc tray.
4. Press [PLAY MODE] button on the remote repeatedly to select the "ALL DISCS" mode, and press the [REPEAT] button on the remote repeatedly to select "REPEAT OFF" mode.
5. Press [■] button, [ENTER] button, and [EX-CHANGE/DISC SKIP] button simultaneously.
6. Aging operation is started.
7. To release this mode, press [I/⏻] button or disconnect the power cord to turn the power OFF.

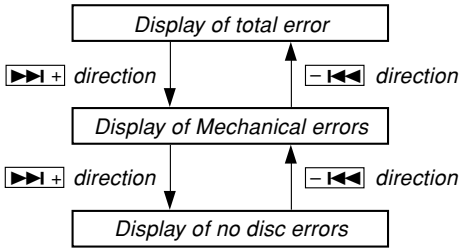
Aging mode sequence:



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

Procedure:

1. Press ■ button, ENTER button and DISC 1 button simultaneously to enter the error code display mode.
2. The fluorescent indicator tube displays the number of total error.
3. Each time ◀◀ ▶▶ knob is rotated, display change as below.



4. To clear the error record, operate the cold reset. (Refer to the "MC COLD RESET")
5. To release this mode, press the I/⏻ button or disconnect the power plug to turn the power OFF.

1) Display of total error

Display

Em**Ed**

Em**: The number of mechanical errors.
Ed **: The number of no disc errors after chucking the disc.

2) Display of mechanical errors

Display

M*$$%&&##00

M*: The number of mechanical error ("00" is latest one)
(Rotate ⏮ ⏭ knob in the direction of either to display next error)
$$: Not used
%%: Loading related error (Second figure is not used)
- D: Stop by the problem other than mechanical problem while closing.
- E: Stop by the problem other than mechanical problem while opening.
- C: Stop by the problem other than mechanical problem while chucking up.
- F: Stop by the problem other than mechanical problem while chucking down.

&&: Emerging error
- 01: Stop while chucking up.
- 02: Stop while chucking up.
- 03: Time-out of EX-CHANGE open.
- 05: Time-out of EX-CHANGE close.

##: Not used

3) Display of no disc errors

Display

D*$$%&&##00

D*: The number of mechanical error ("00" is latest one)
(Rotate ⏮ ⏭ knob in the direction of either to display next error)
$$: Error type
- 01: Focus error
- 02: GFS error
- 03: Setup error

%%: Not used
&&:
- 00: No disc judgment without chucking retry.
- 01: No disc judgment after chucking retry.

##: The state when judged as no disc
- 01: Stop
- 02: Setup
- 03: TOC reading
- 04: Access
- 05: Playback
- 06: Pause
- 07: Manual search (Play)
- 08: Manual search (Pause)

[CD REPEAT 5 LIMIT OFF MODE]

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

Procedure:

1. Press I/⏻ button to turn the set ON.
2. Select CD function.
3. Press ■ button, CD button and DISC 1 button simultaneously to enter the CD repeat 5 limit off mode and the fluorescent indicator tube displays "LIMIT OFF".
4. To release this mode, operate the cold reset. (Refer to the "MC COLD RESET")

[CD SHIP MODE (WITH MEMORY CLEAR)]

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

Procedure:

1. Press I/⏻ button to turn the set ON.
2. Select CD function.
3. Press ■ button, SOUND FLASH button and I/⏻ button simultaneously. The set will power off automatically.
4. After the "STANDBY" blinking display finish, a message "MECHA LOCK" is displayed on the fluorescent indicator tube and the CD ship mode is set.

[CD SHIP MODE (WITHOUT MEMORY CLEAR)]

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

Procedure:

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

[CD POWER MANAGE]

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

Procedure:

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

[CD TRAY LOCK MODE]

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

Procedure:

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

[VIDEO/MD SWITCHING]

- This mode let you switch from VIDEO to MD and vice-versa.

Procedure:

1. Press [I/⏻] button to turn the set ON.
2. Select VIDEO function.
3. Press [VIDEO/MD] button and [I/⏻] button simultaneously. The function will change to MD. Press the same buttons again to change from MD to VIDEO.

[TCM OFFLINE MODE]

- This mode prevents set from power off automatically when TCM is not connected.
  Therefore, measurements can be done even when TCM is not connected during production.
- Procedure:
  1. When the system in turned off, press [EQ BAND] button, [TAPE A/B] button and [I/⏻] button simultaneously. The set will power on automatically.
  2. The message "TCM OFFLINE" will be displayed on the fluorescent indicator tube.

SECTION 5
MECHANICAL ADJUSTMENTS

Precaution

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

Torque Measurement

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

SECTION 6
ELECTRICAL ADJUSTMENTS

DECK SECTION 0 dB=0.775 V

1. Demagnetize the record/playback head with a head demagnetizer.
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjust.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
5. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
6. The adjustments should be performed for both L-CH and R-CH.
7. Switches and controls should be set as follows unless otherwise specified.

- Test Tape

Tape	Signal	Used for
P-4-A100	10 kHz, –10 dB	Azimuth Adjustment

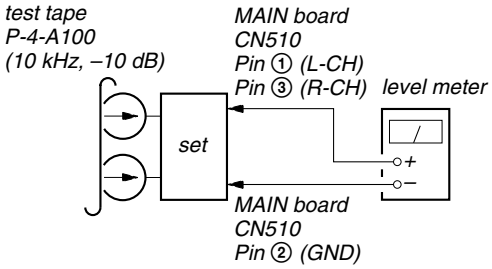
RECORD/PLAYBACK HEAD AZIMUTH ADJUSTMENT

DECK A **DECK B**

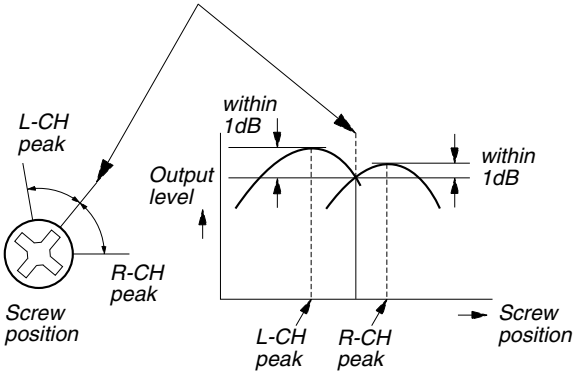
Note: Perform this adjustments for both decks

Procedure:

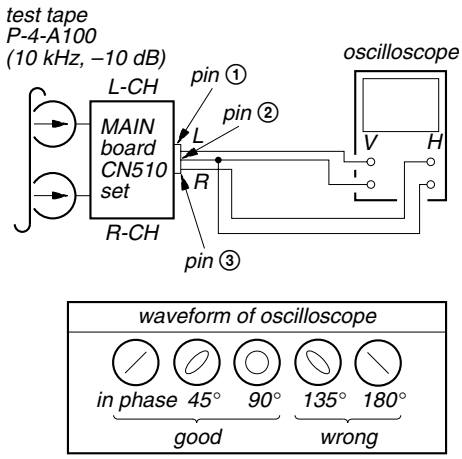
1. Mode: Playback



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

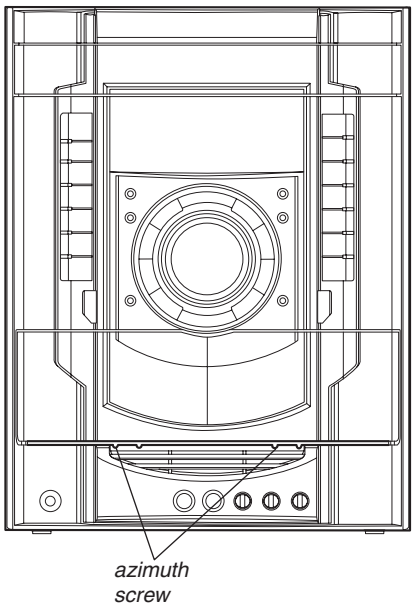


3. Mode: Playback



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

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



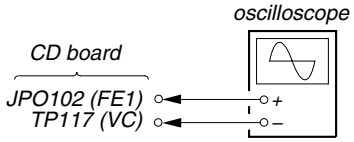
CDG SECTION

Note:

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

S-curve Check

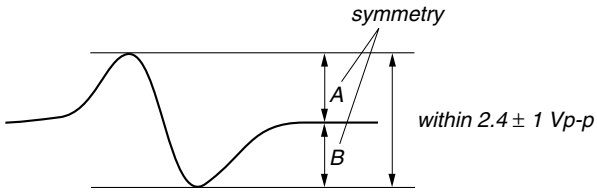
Connection:



Procedure:

1. Connect an oscilloscope to test point JPO102 (FE1) and TP 117(VC) on the CD board.
2. Turn the power on.
3. Put the disc (YEDS-18) in and turned power switch on again and actuate the focus search. (actuate the focus search when disc table is moving in and out)
4. Check the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 2.4 ± 1 Vp-p.

S-curve waveform



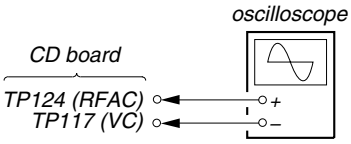
Note:

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

Checking Location: CD board (SIDE B)
(See page 24.)

RFAC Level Check

Connection:

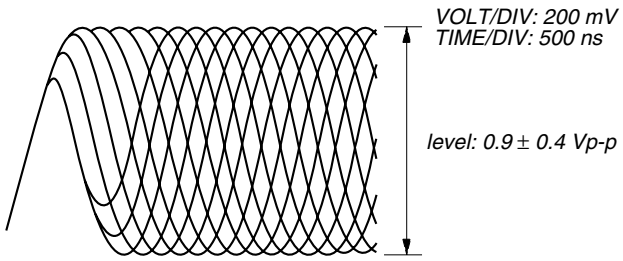


Procedure:

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

Note: A clear RFAC signal waveform means that the shape "◊" can be clearly distinguished at the center of the waveform.

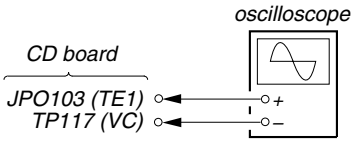
RFAC signal waveform



Checking Location: CD board (SIDE B)
(See page 24.)

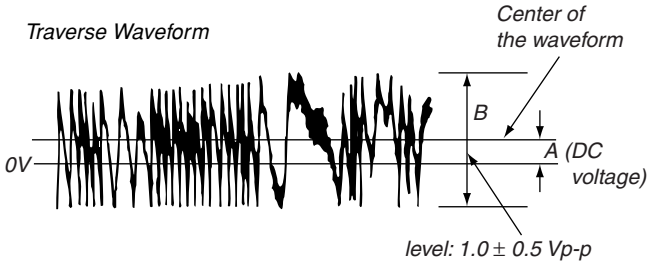
E-F Balance Check

Connection:



Procedure:

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

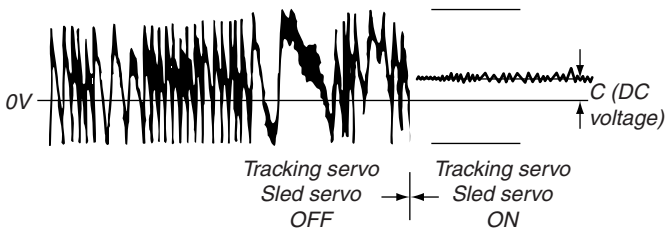


8. Press the [I◀◀] button. The message "TRAVERSE" is displayed. (The tracking servo and sledding servo are turned ON)
   Confirm the C (DC voltage) is almost equal to the A (DC voltage) is step 5.
9. To exit from this mode, perform as follows.
   1) Move the optical pick-up to the most inside track.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

Notes:

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

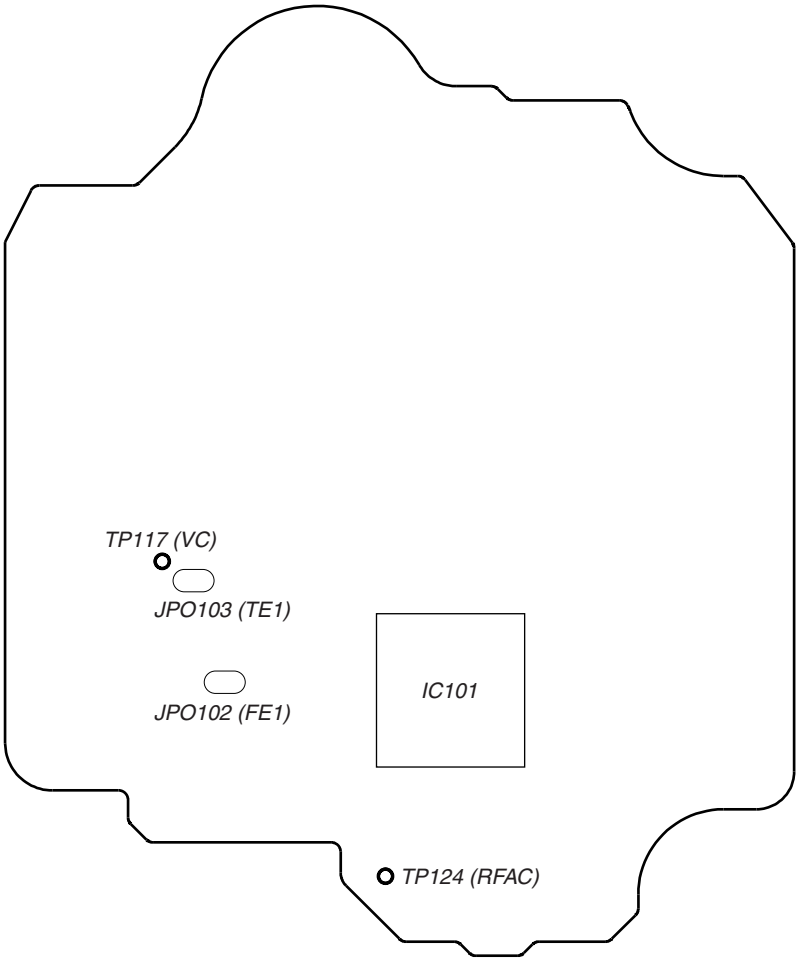
Traverse Waveform



Checking Location: CD board (SIDE B) (See page 24.)

Checking Location:

– BD84 BOARD (SIDE B) –



SECTION 7
DIAGRAMS

For schematic diagrams.
Note:

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

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

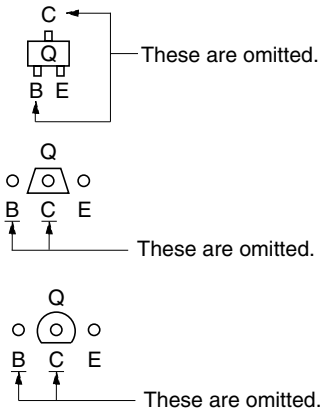
- : panel designation.
- : B+ Line.
- : B– Line.
- : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  BD84 board
  no mark: CD PLAY
  Other boards
  no mark: TUNER (FM/AM)
  ( ) : CD PLAY
  < > : TAPE PLAY
  [ ] : TAPE REC
  * : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Signal path.
  : TUNER (FM/AM)
  : TAPE PLAY (DECK A)
  : TAPE PLAY (DECK B)
  : RECORD
  : CD PLAY
  : MIC INPUT
  : CDG
  : VIDEO

Note on Printed Wiring Boards:
Note:

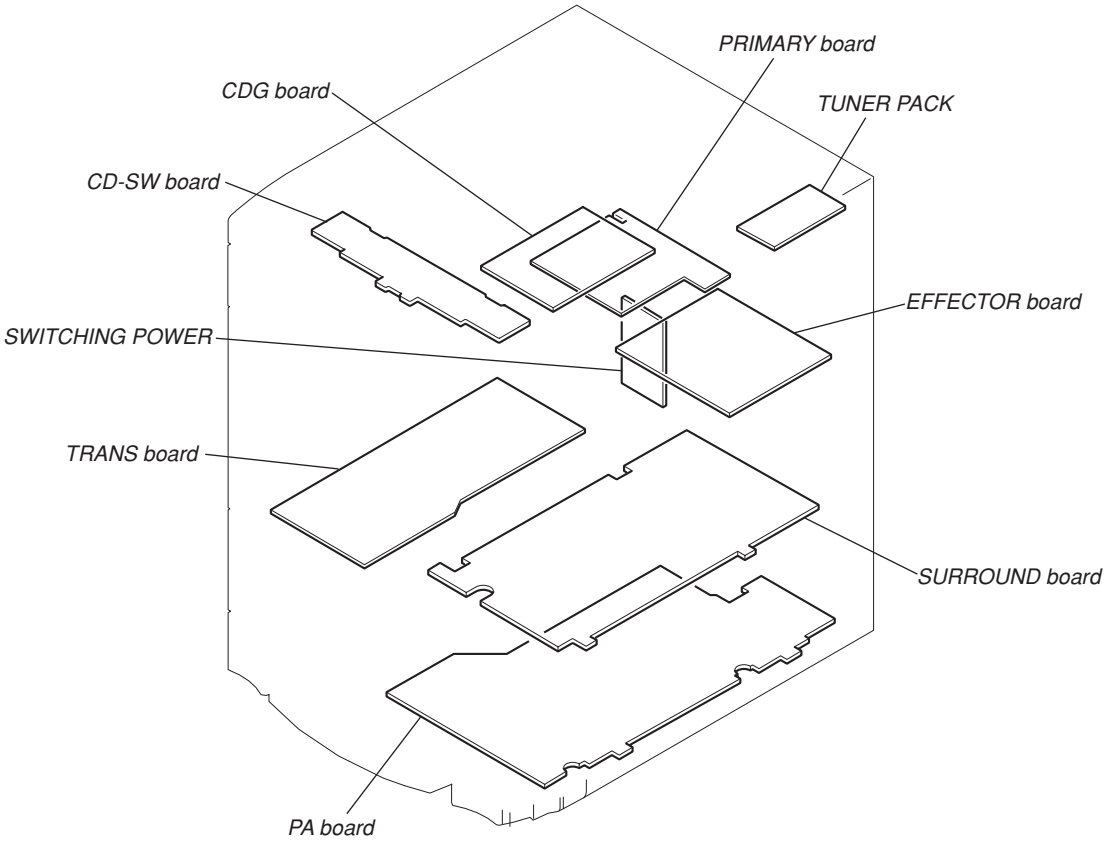
- : parts extracted from the component side.
- : Pattern from the side which enables seeing.
  (The other layers' patterns are not indicated.)

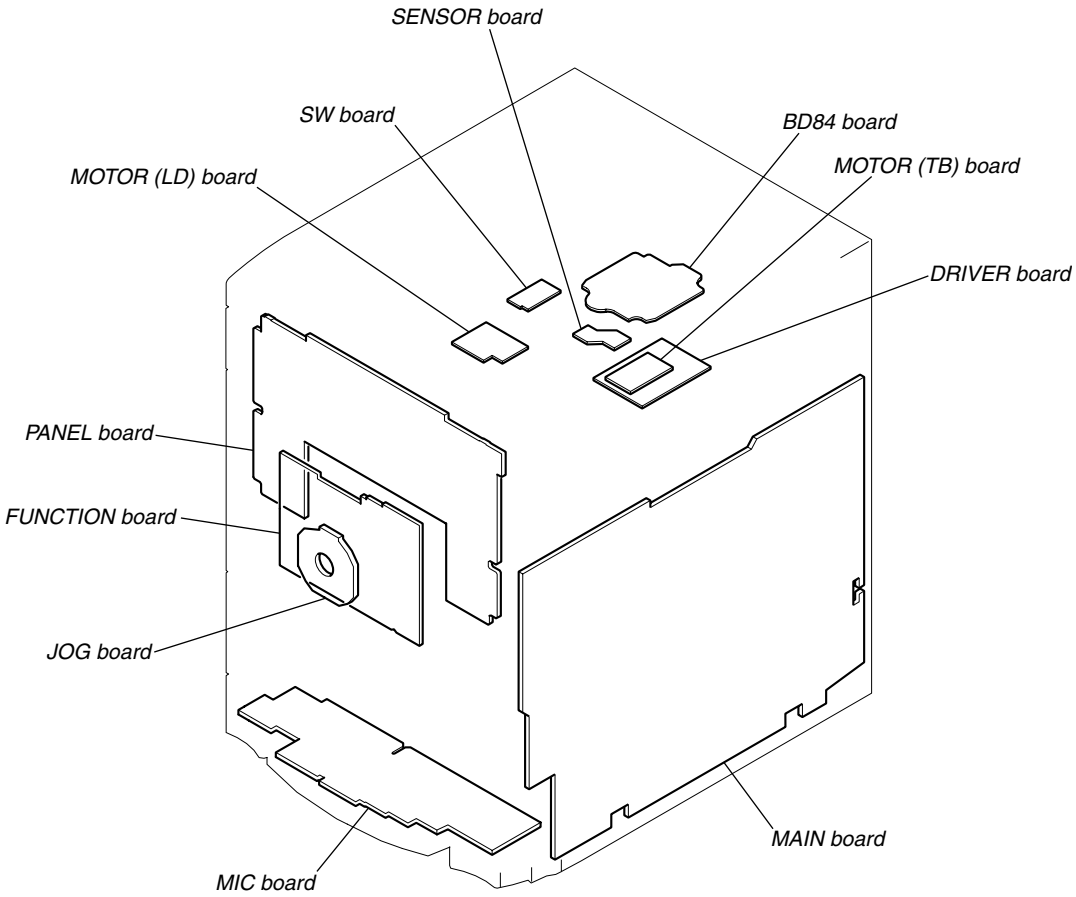
Caution:	
Parts face side: (Side A)	Parts on the parts face side seen from the parts face are indicated.
Pattern face side: (Side B)	Parts on the pattern face side seen from the pattern face are indicated.

- Indication of transistor.

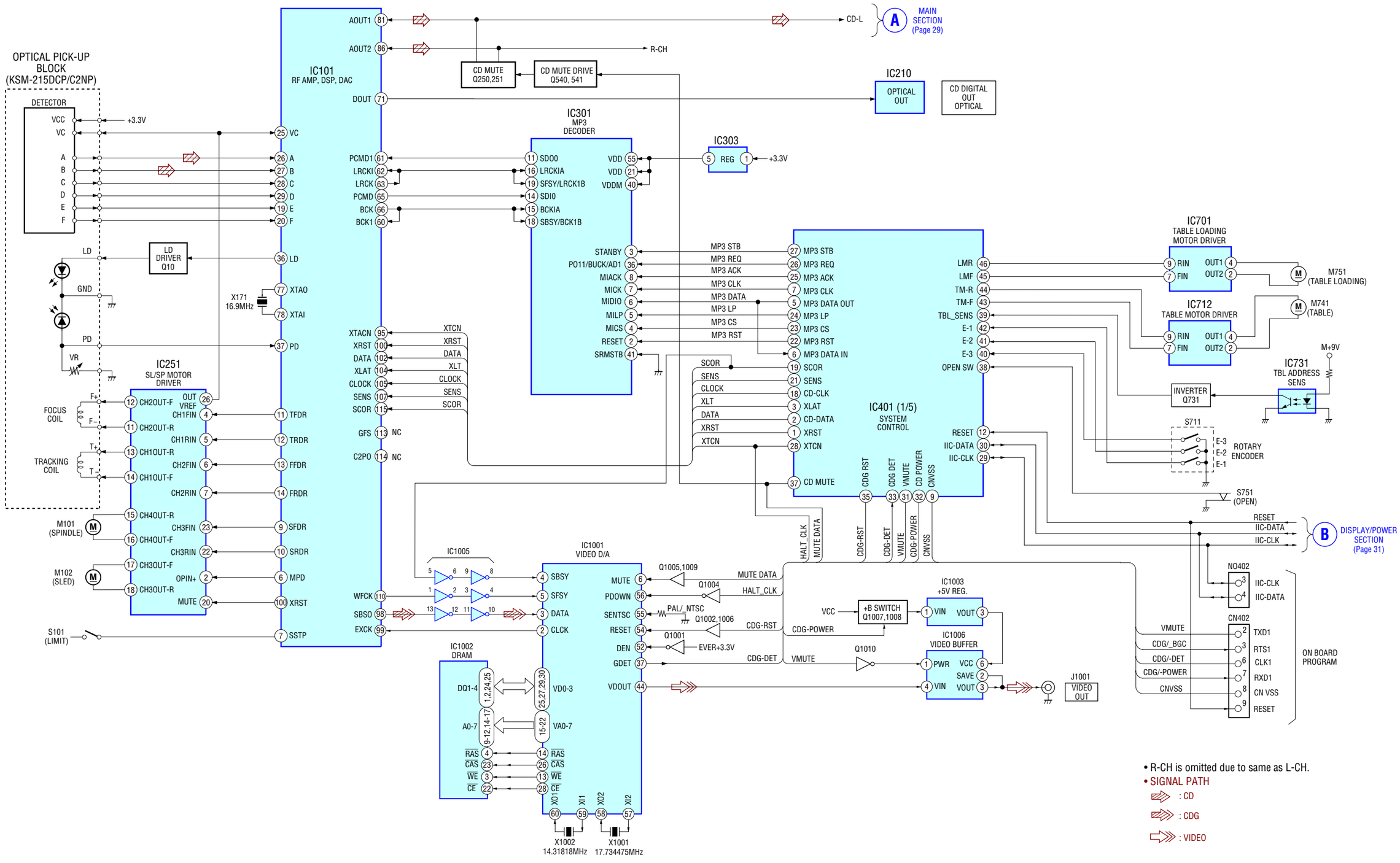


• CIRCUIT BOARDS LOCATION



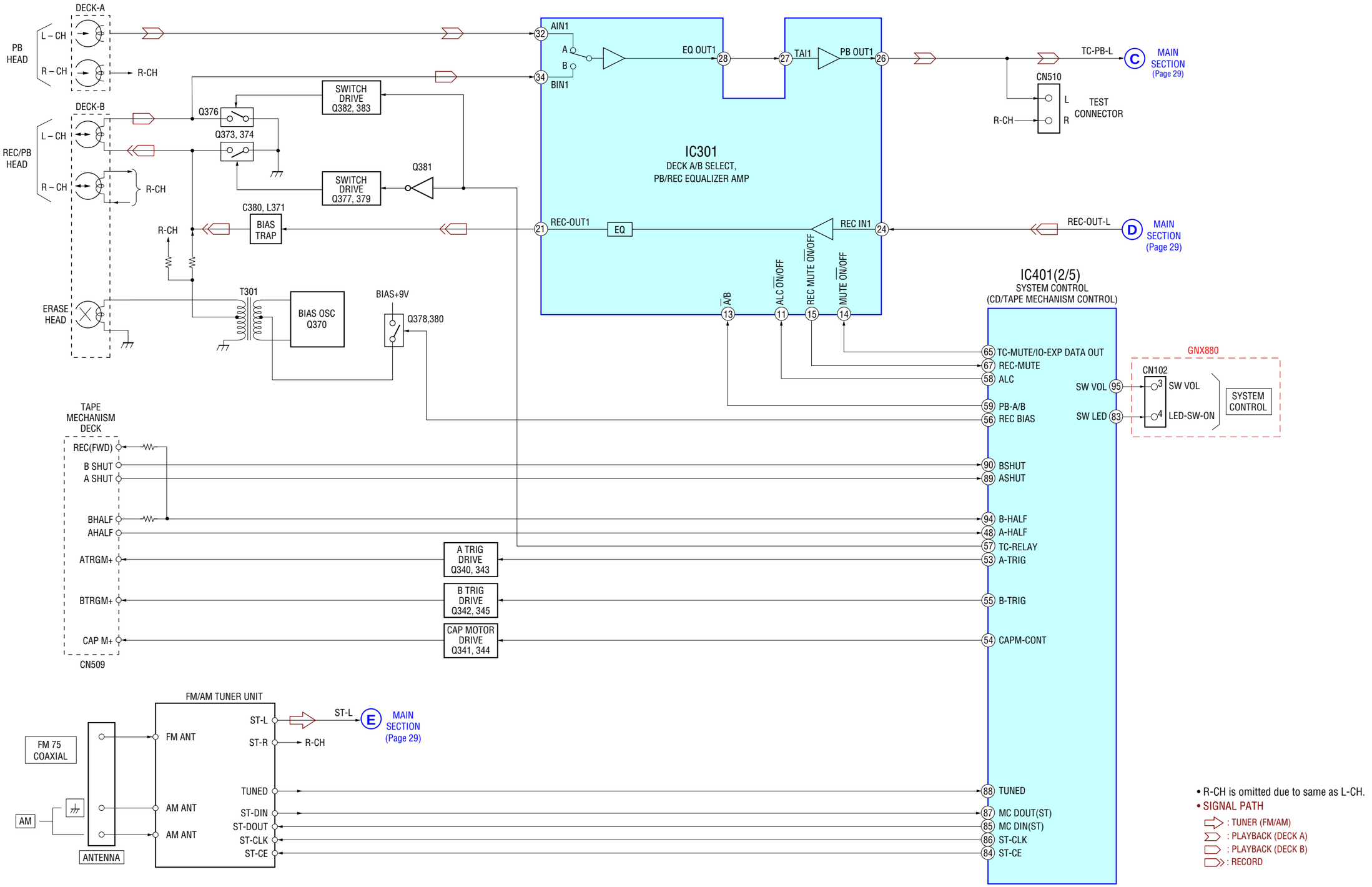


7-1. BLOCK DIAGRAM – CDG SECTION –

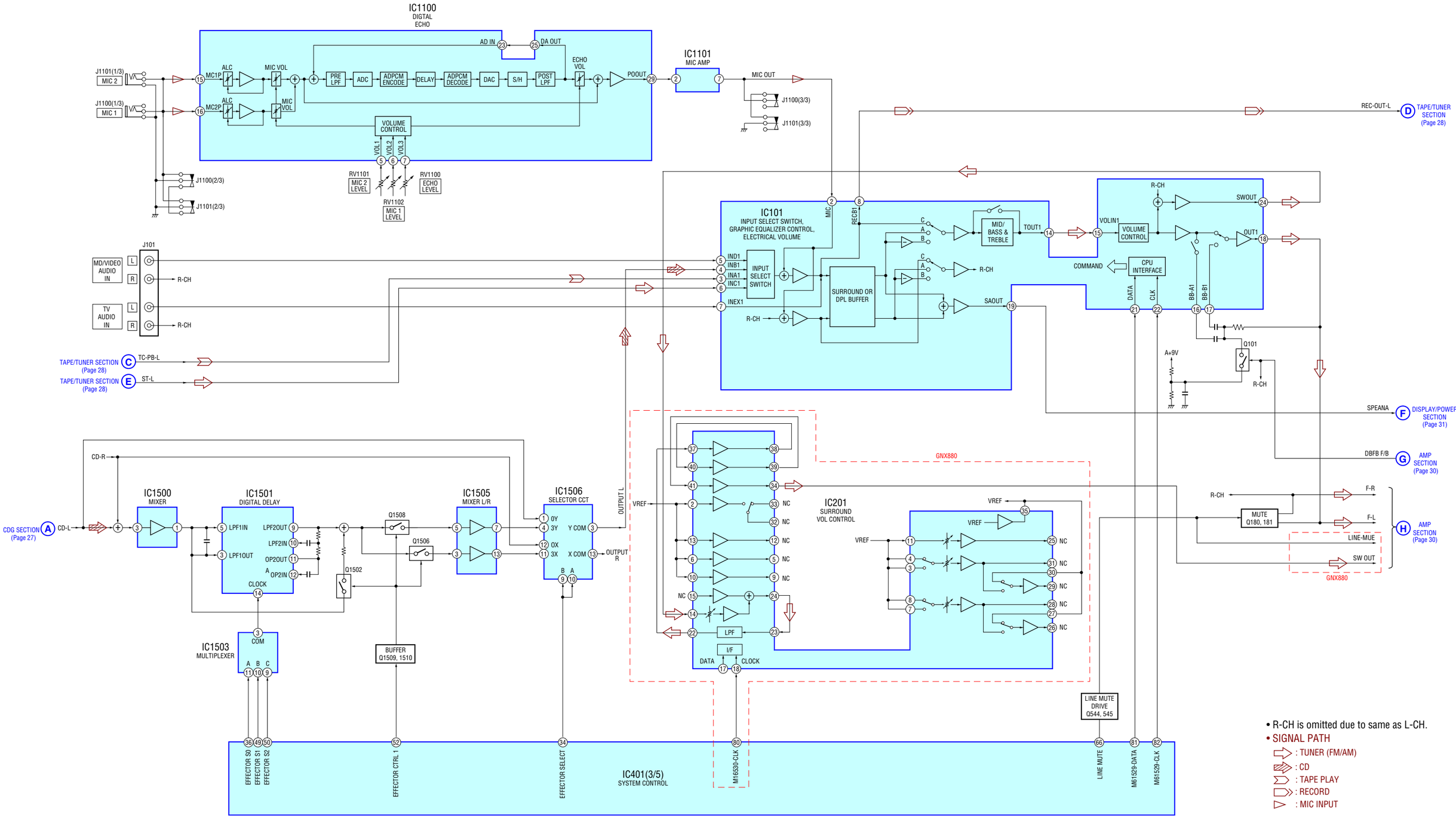


- R-CH is omitted due to same as L-CH.
- SIGNAL PATH
  - : CD
  - : CDG
  - : VIDEO

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

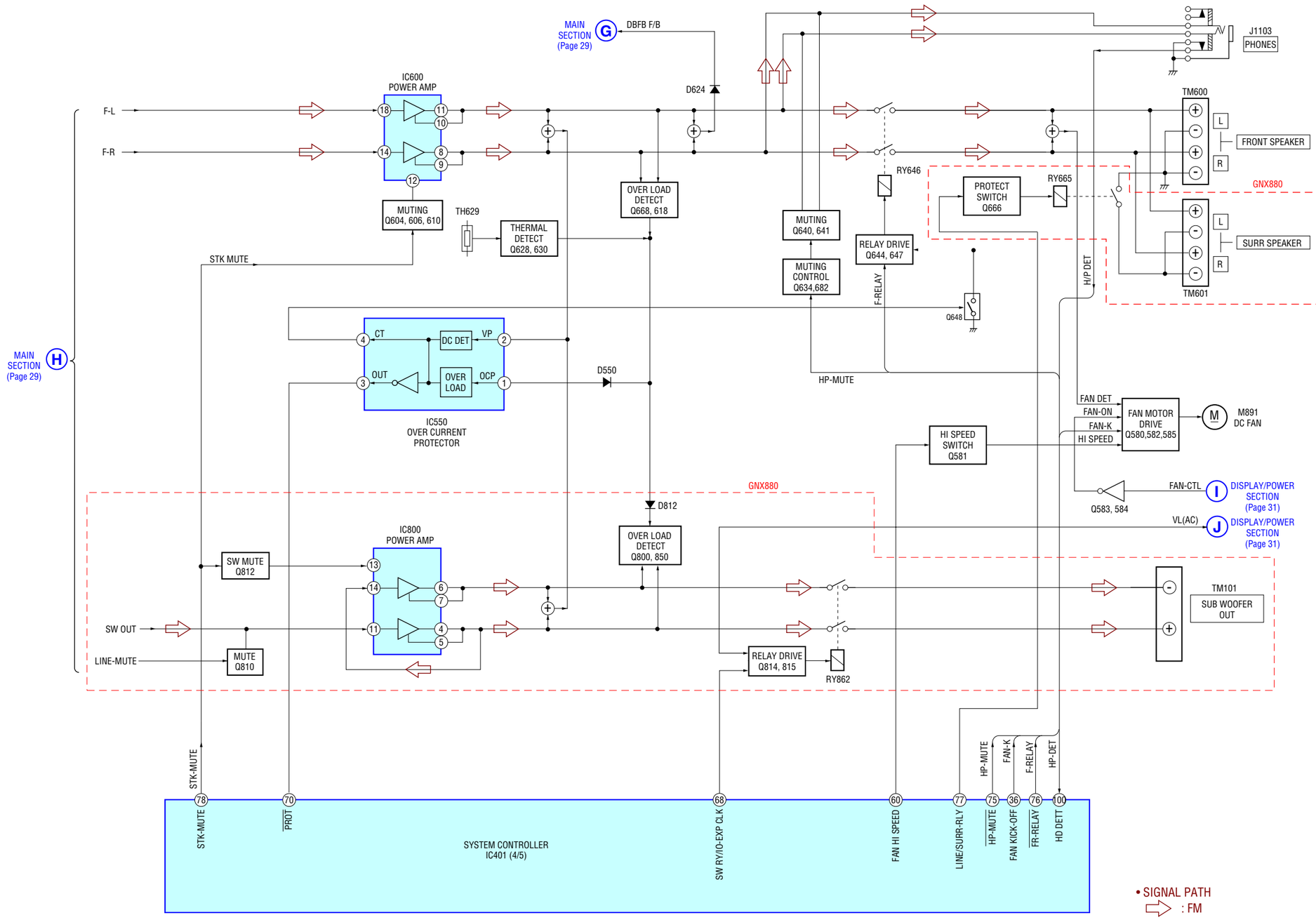


7-3. BLOCK DIAGRAM – MAIN SECTION –

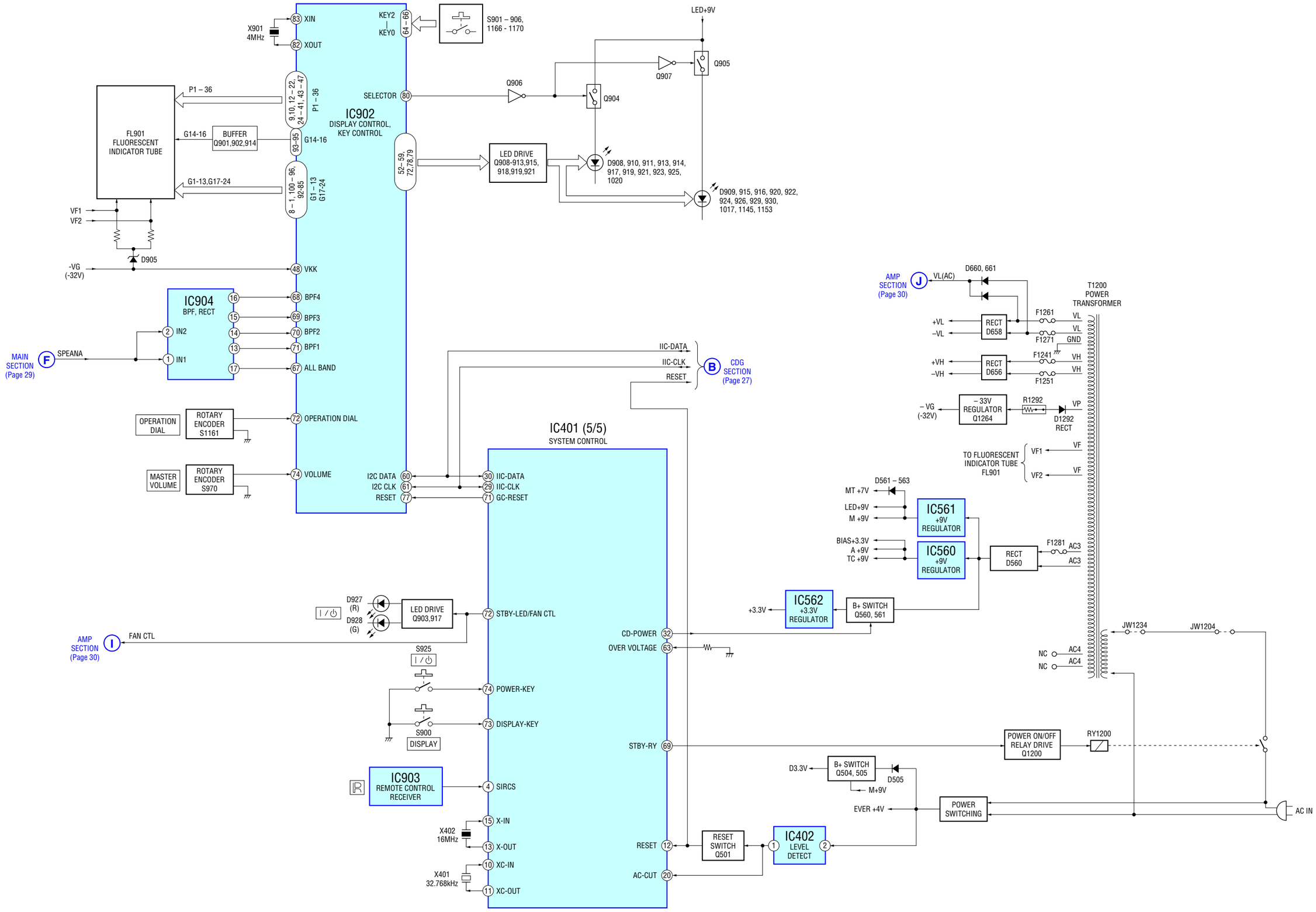


- R-CH is omitted due to same as L-CH.
- SIGNAL PATH
  - : TUNER (FM/AM)
  - : CD
  - : TAPE PLAY
  - : RECORD
  - : MIC INPUT

7-4. BLOCK DIAGRAM – AMP SECTION –



7-5. BLOCK DIAGRAM – DISPLAY/ POWER SECTION –

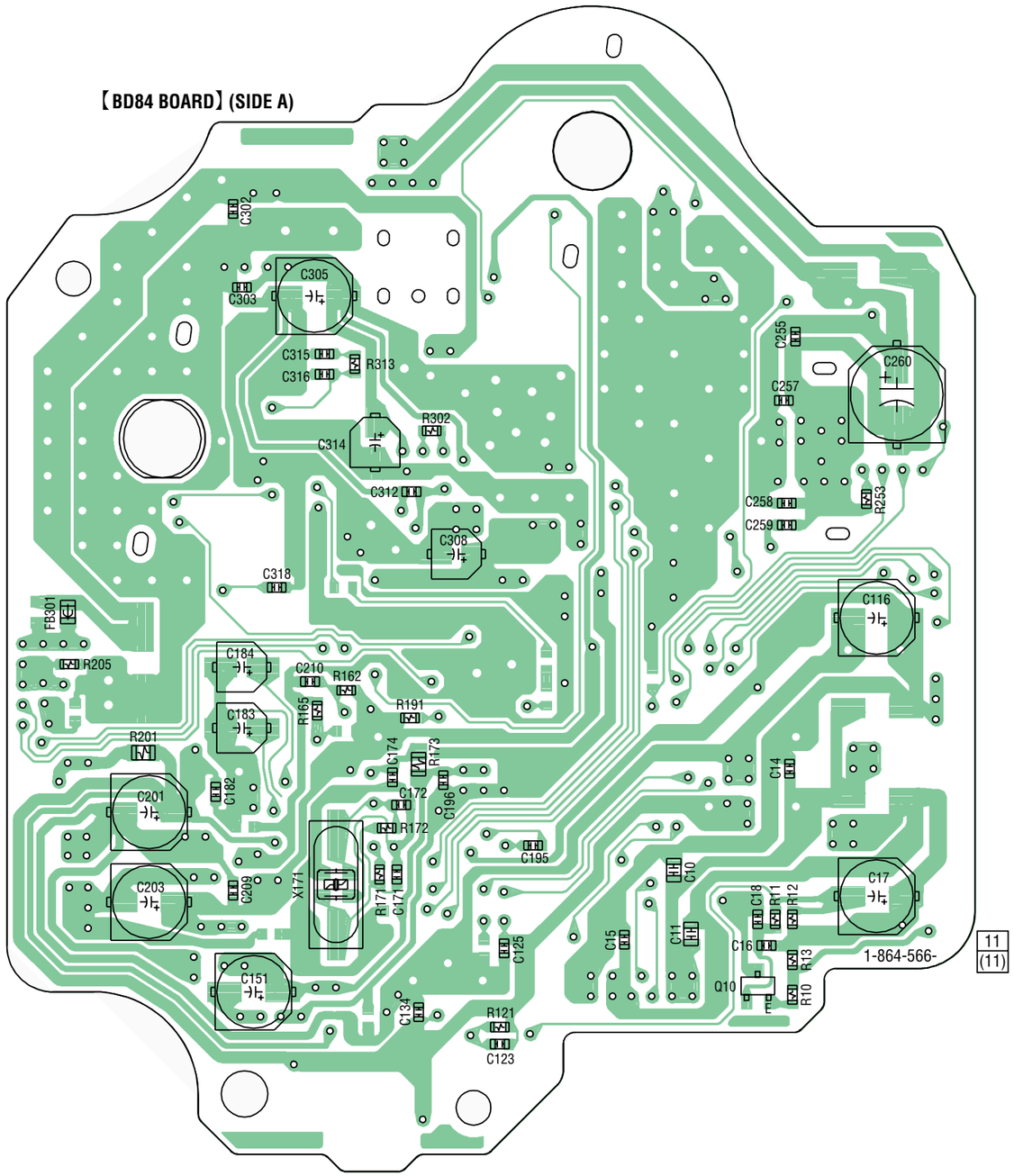


7-6. PRINTED WIRING BOARD – BD84 BOARD –

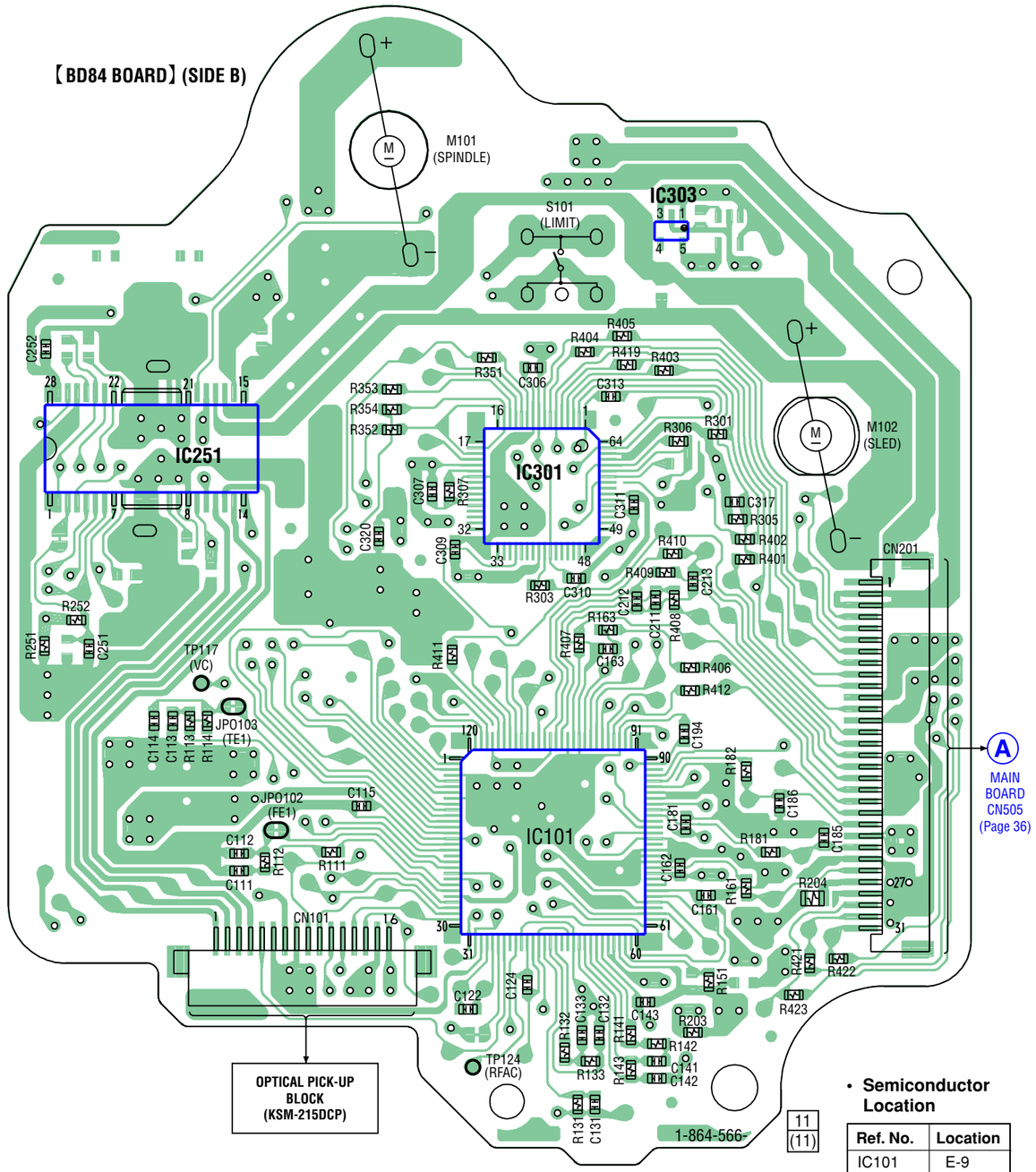
• See page 26 for Circuit Boards Location.

: Uses unleaded solder.

【BD84 BOARD】(SIDE A)



【BD84 BOARD】(SIDE B)

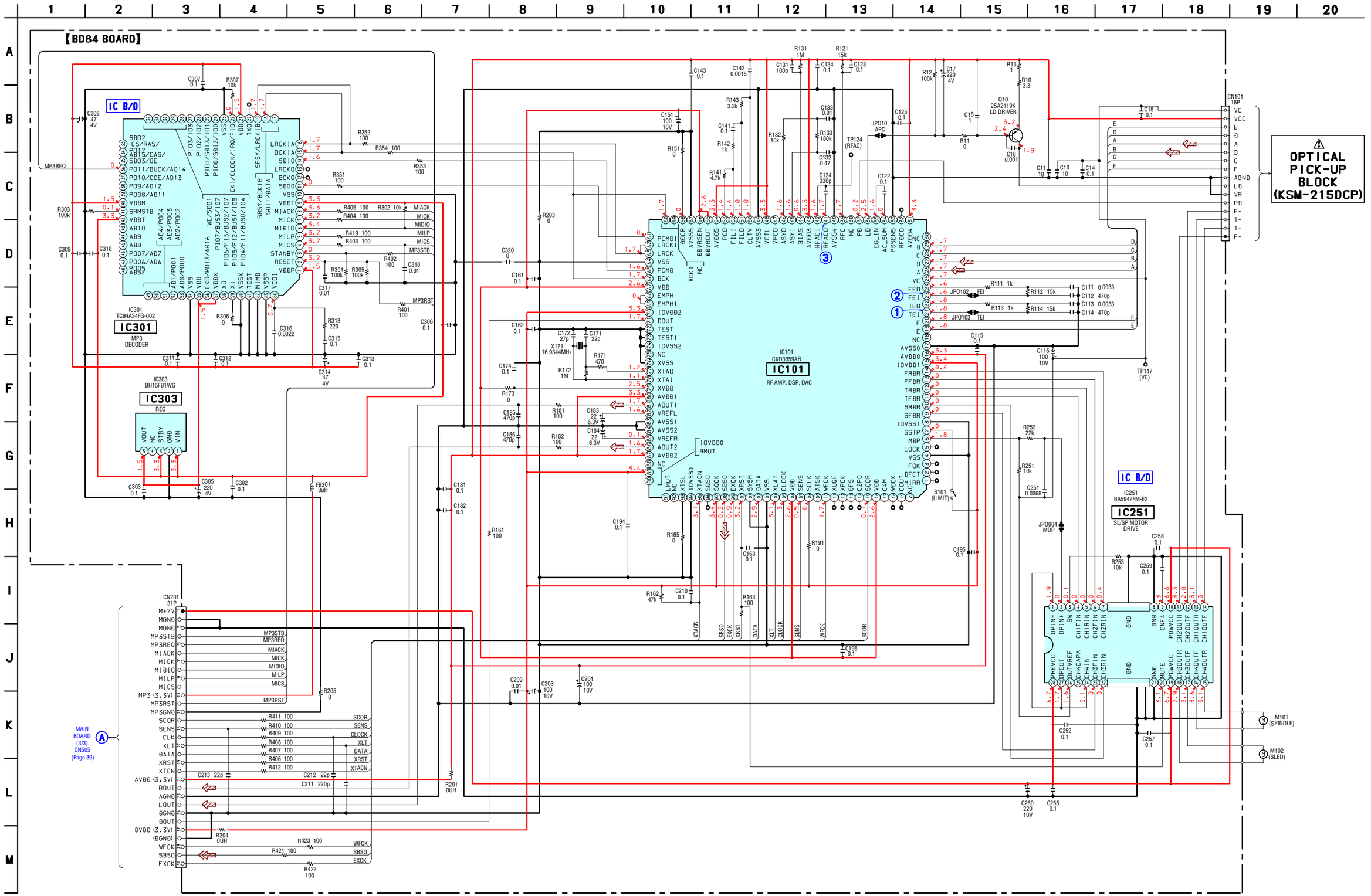


• **Semiconductor Location**

Ref. No.	Location
IC101	E-9
IC251	C-7
IC301	C-9
IC303	B-10
Q10	F-4

7-7. SCHEMATIC DIAGRAM – BD84 BOARD –

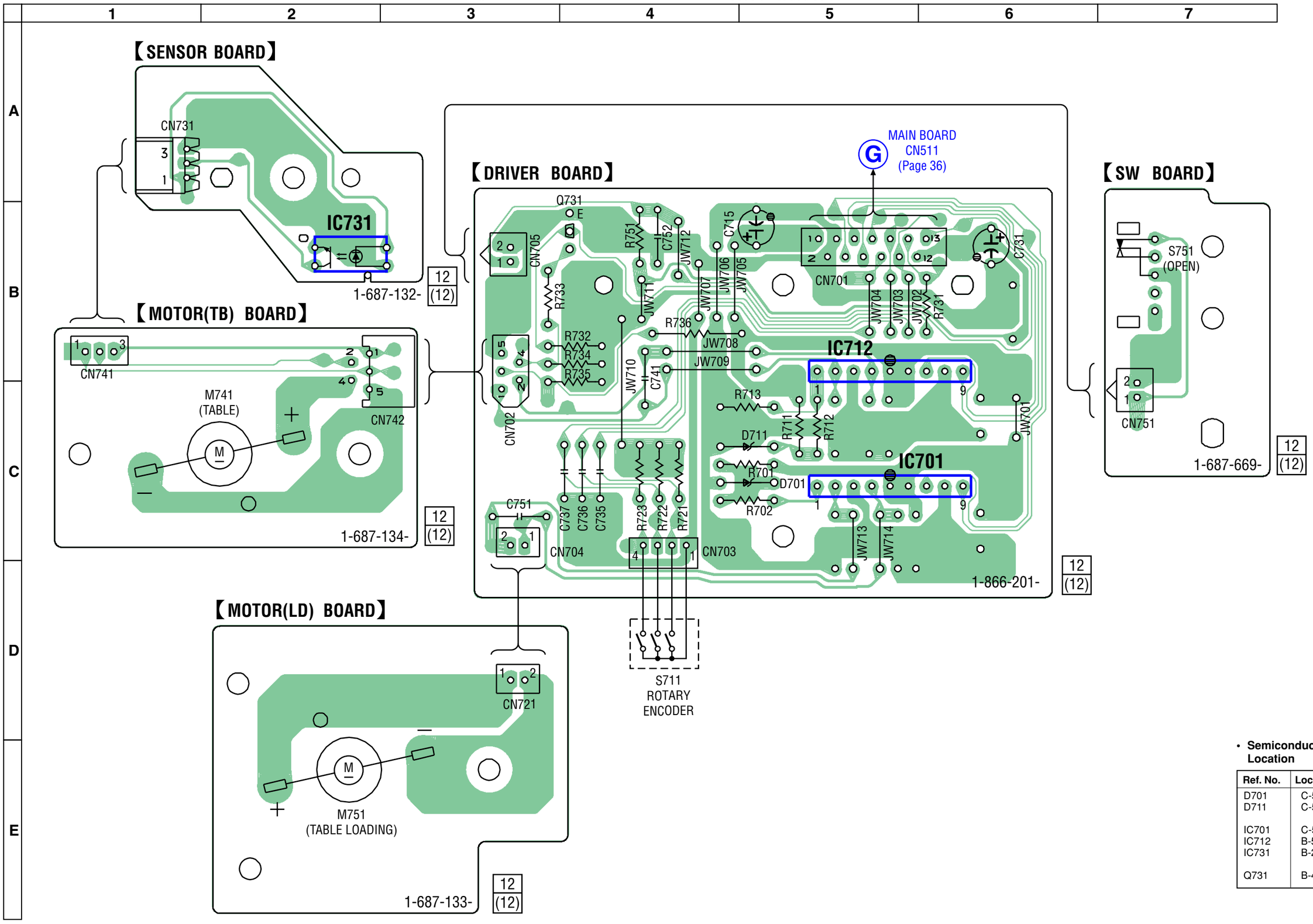
• See page 54 and 55 for IC Block Diagrams. • See page 54 for Waveforms. • See page 58 for IC Pin Function Description.



7-8. PRINTED WIRING BOARDS – CD MECHANISM SECTION –

• See page 26 for Circuit Boards Location.

: Uses unleaded solder.

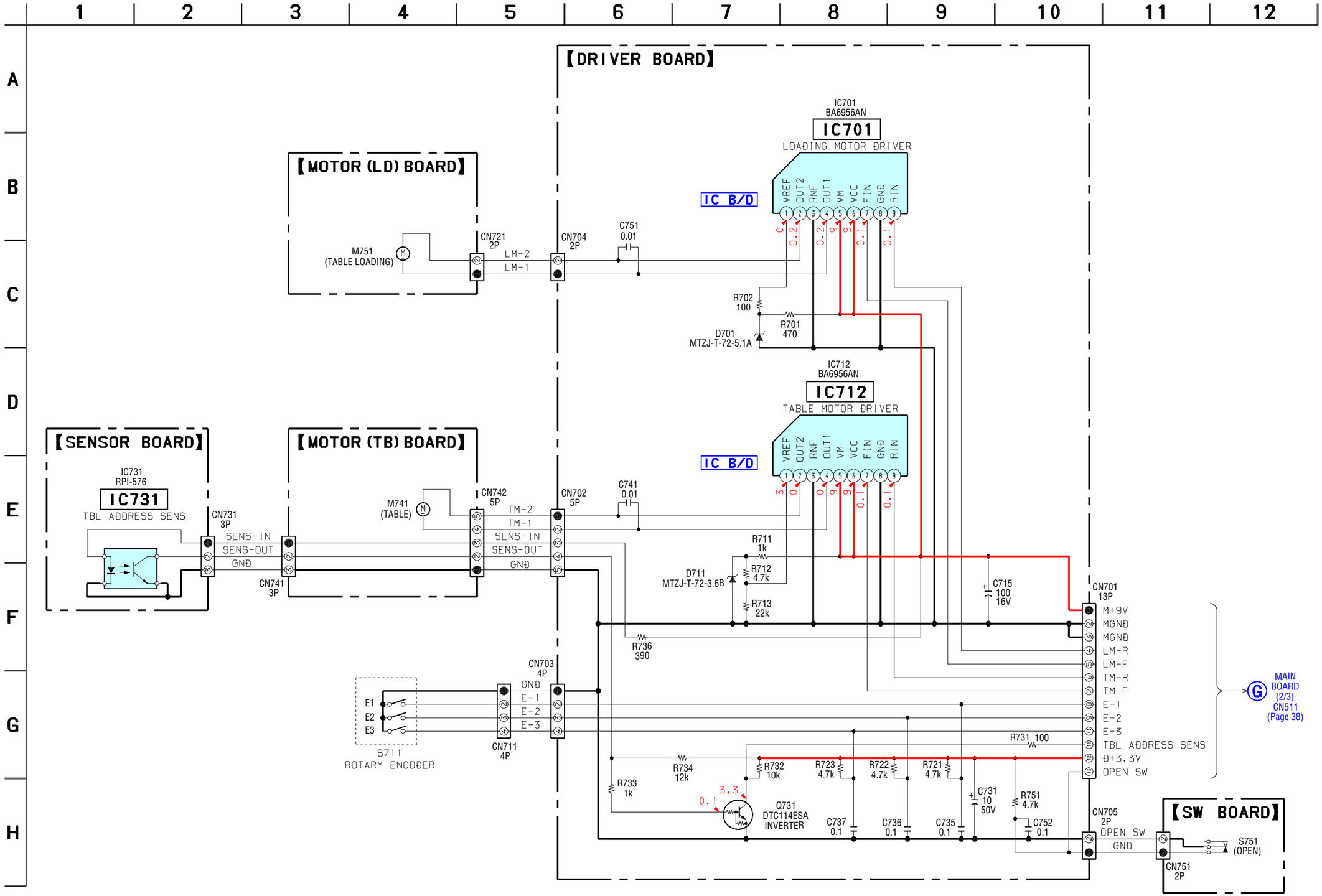


• **Semiconductor Location**

Ref. No.	Location
D701	C-5
D711	C-5
IC701	C-5
IC712	B-5
IC731	B-2
Q731	B-4

7-9. SCHEMATIC DIAGRAM – CD MECHANISM SECTION –

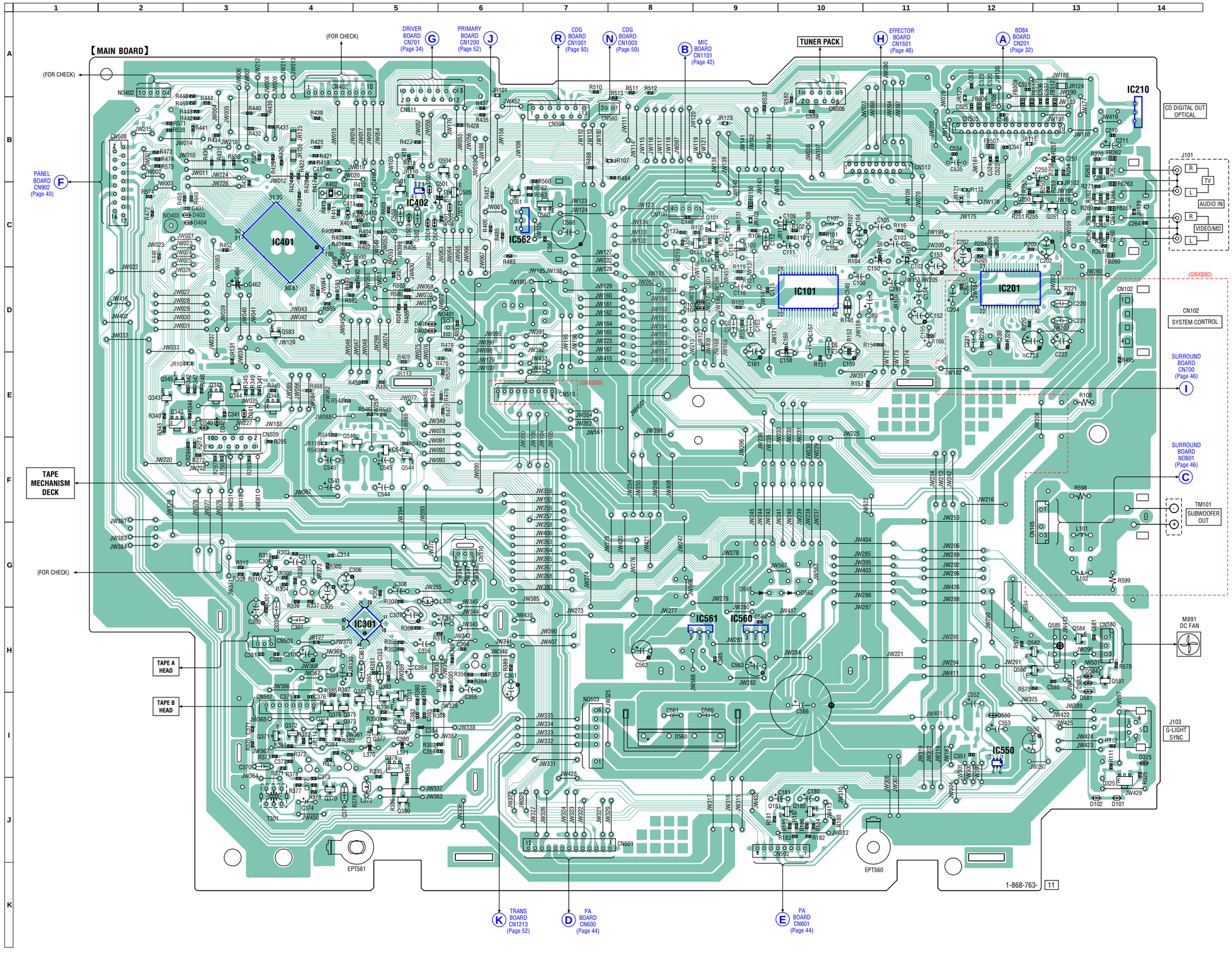
• See page 54 for IC Block Diagrams.



7-10. PRINTED WIRING BOARD – MAIN BOARD –

• See page 26 for Circuit Boards Location.

: Uses unleaded solder.

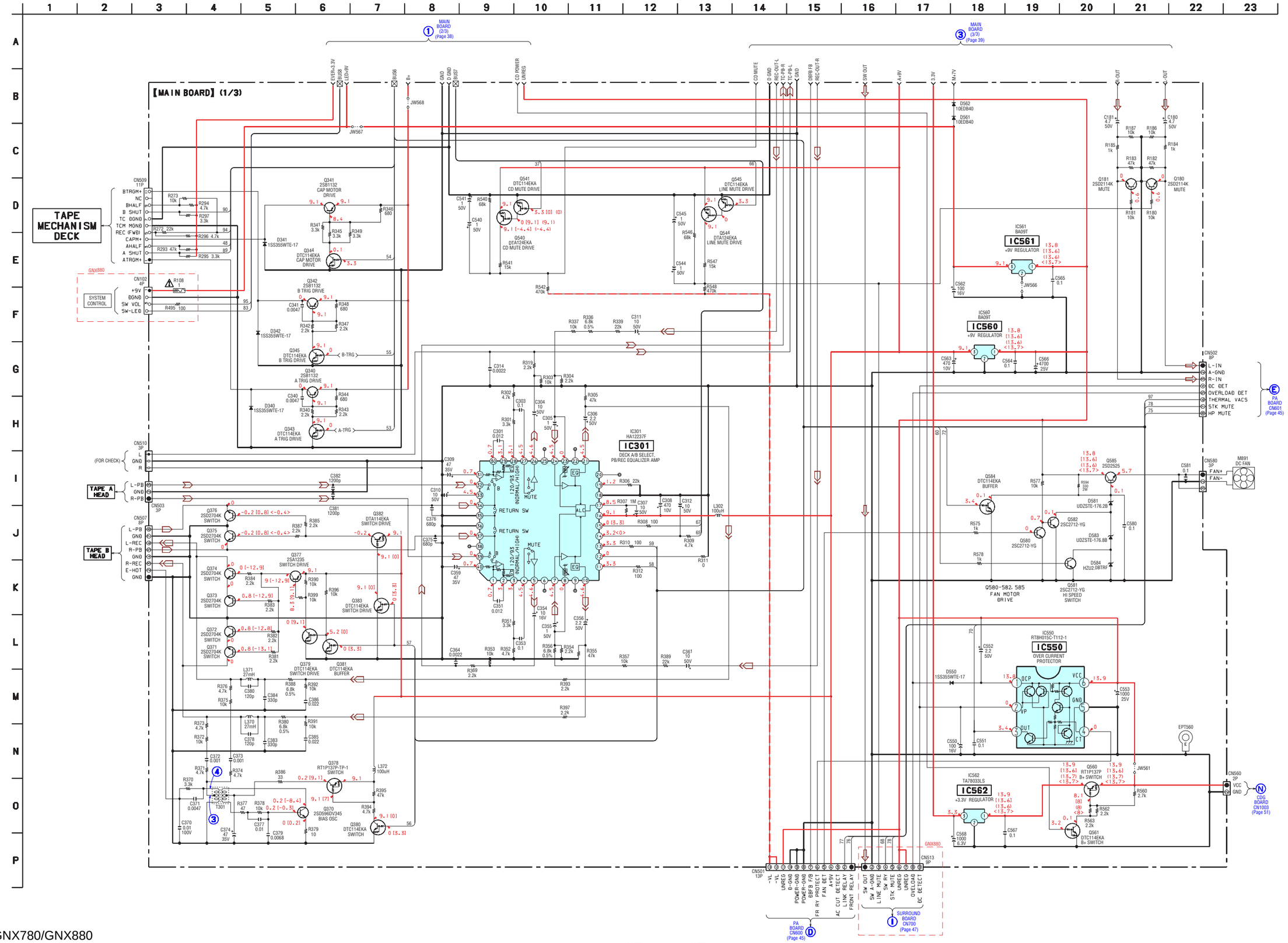


• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D101	J-13	Q181	J-10
D102	J-13	Q250	C-12
D103	D-9	Q251	C-13
D104	D-9	Q325	J-13
D325	I-14	Q340	E-2
D340	E-3	Q341	E-4
D341	E-3	Q342	E-3
D342	E-3	Q343	E-2
D401	D-5	Q344	E-3
D402	D-5	Q345	E-2
D403	C-3	Q370	J-4
D404	C-3	Q371	I-3
D501	C-5	Q372	I-4
D502	C-5	Q373	I-4
D503	C-5	Q374	I-4
D504	C-5	Q375	I-4
D505	C-6	Q376	I-4
D550	I-12	Q377	I-5
D560	I-8	Q378	I-5
D561	G-9	Q379	I-5
D562	G-10	Q380	J-5
D581	H-13	Q381	I-5
D583	H-13	Q382	H-5
D584	H-13	Q383	H-5
		Q501	C-5
IC101	D-10	Q504	B-6
IC201	D-12	Q505	C-6
IC210	A-14	Q540	E-5
IC301	H-5	Q541	F-4
IC401	C-4	Q542	E-5
IC402	C-5	Q545	F-5
IC550	I-12	Q560	C-7
IC560	H-9	Q561	C-6
IC561	H-9	Q580	H-12
IC562	C-6	Q581	H-13
		Q582	H-13
Q101	C-9	Q583	D-4
Q151	C-8	Q584	H-13
Q180	J-10	Q585	H-13

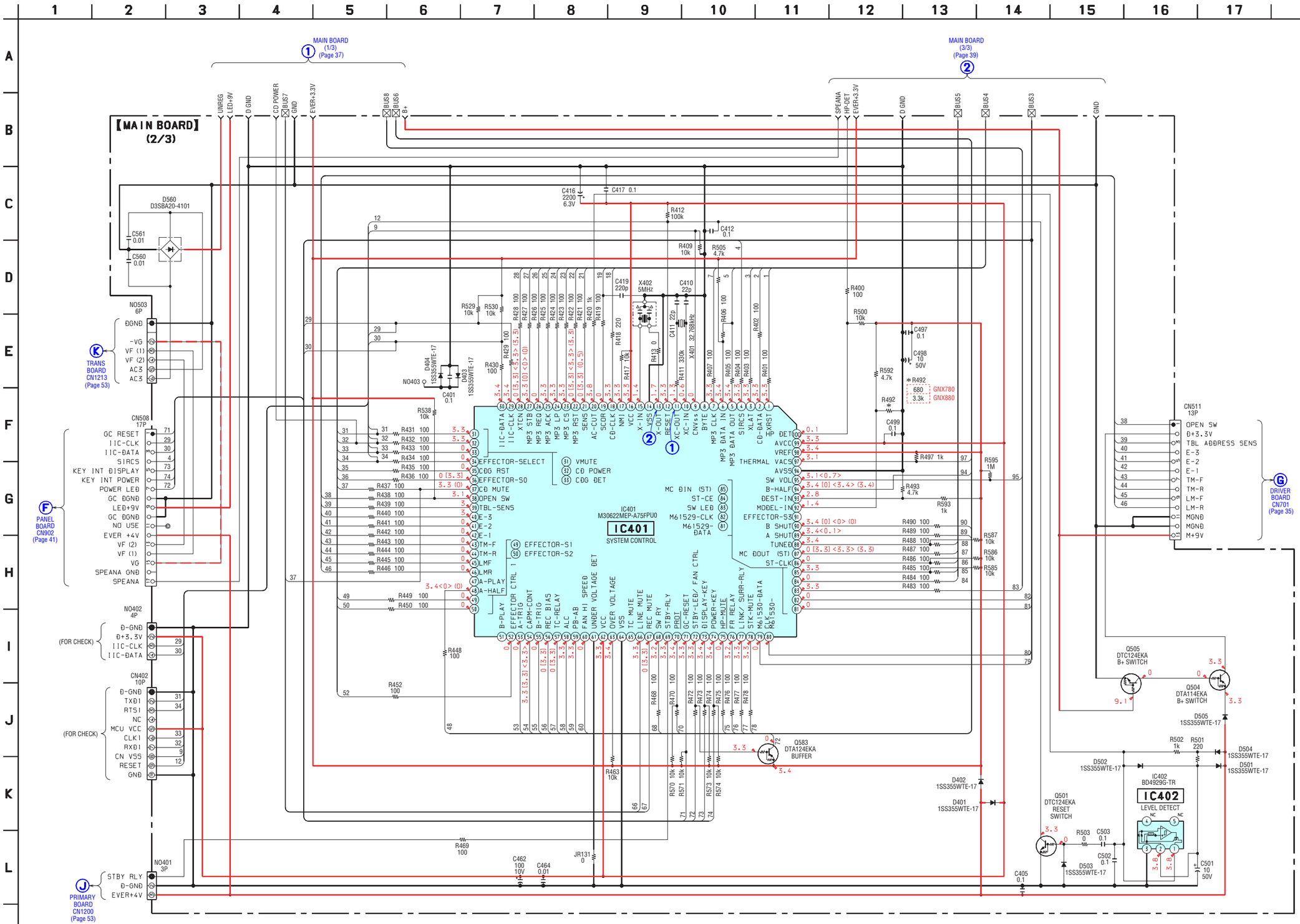
7-11. SCHEMATIC DIAGRAM – MAIN BOARD (1/3) –

• See page 54 for Waveforms.

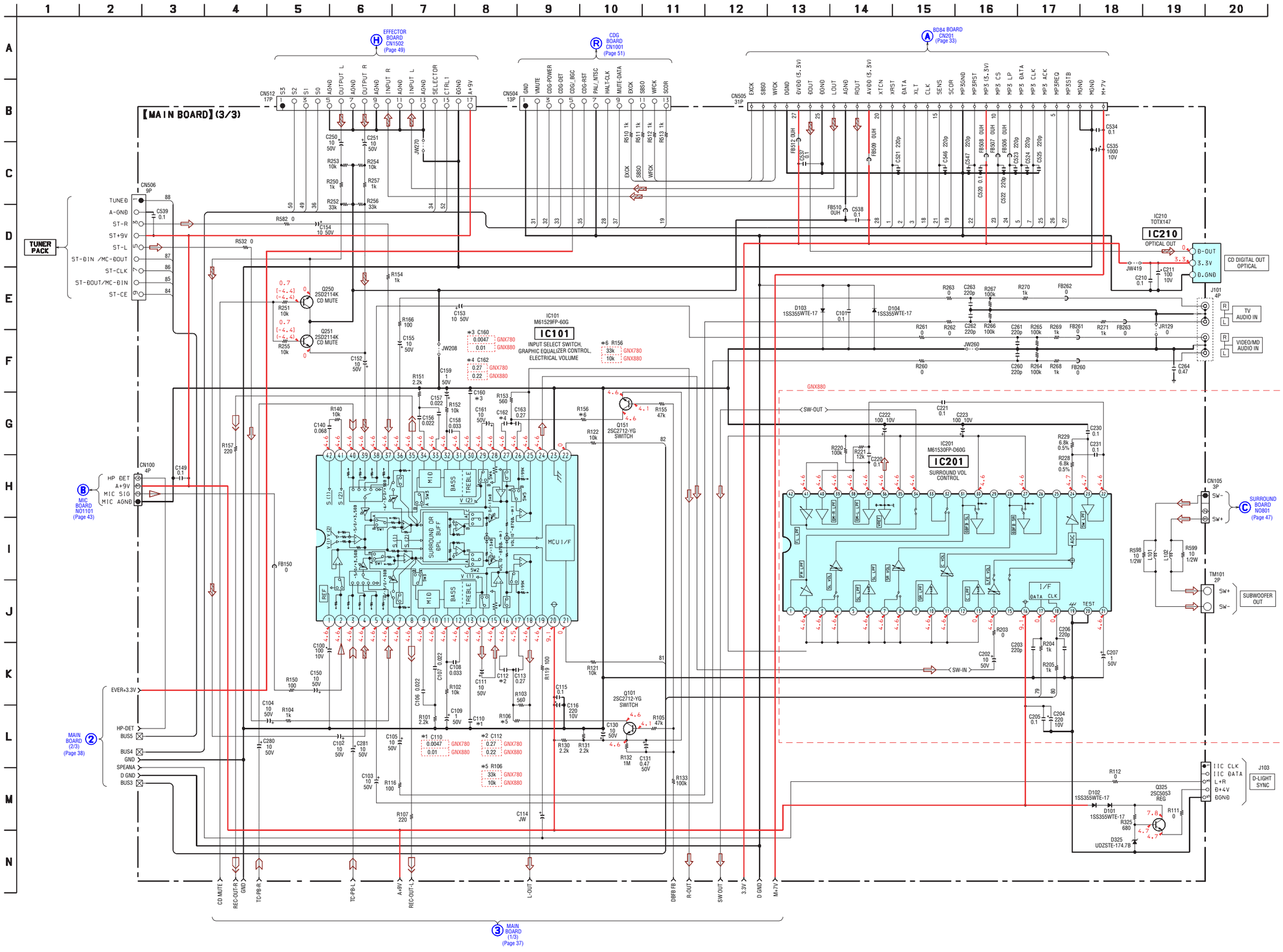


7-12. SCHEMATIC DIAGRAM – MAIN BOARD (2/3) –

• See page 54 for Waveforms. • See page 61 for IC Pin Function Description.



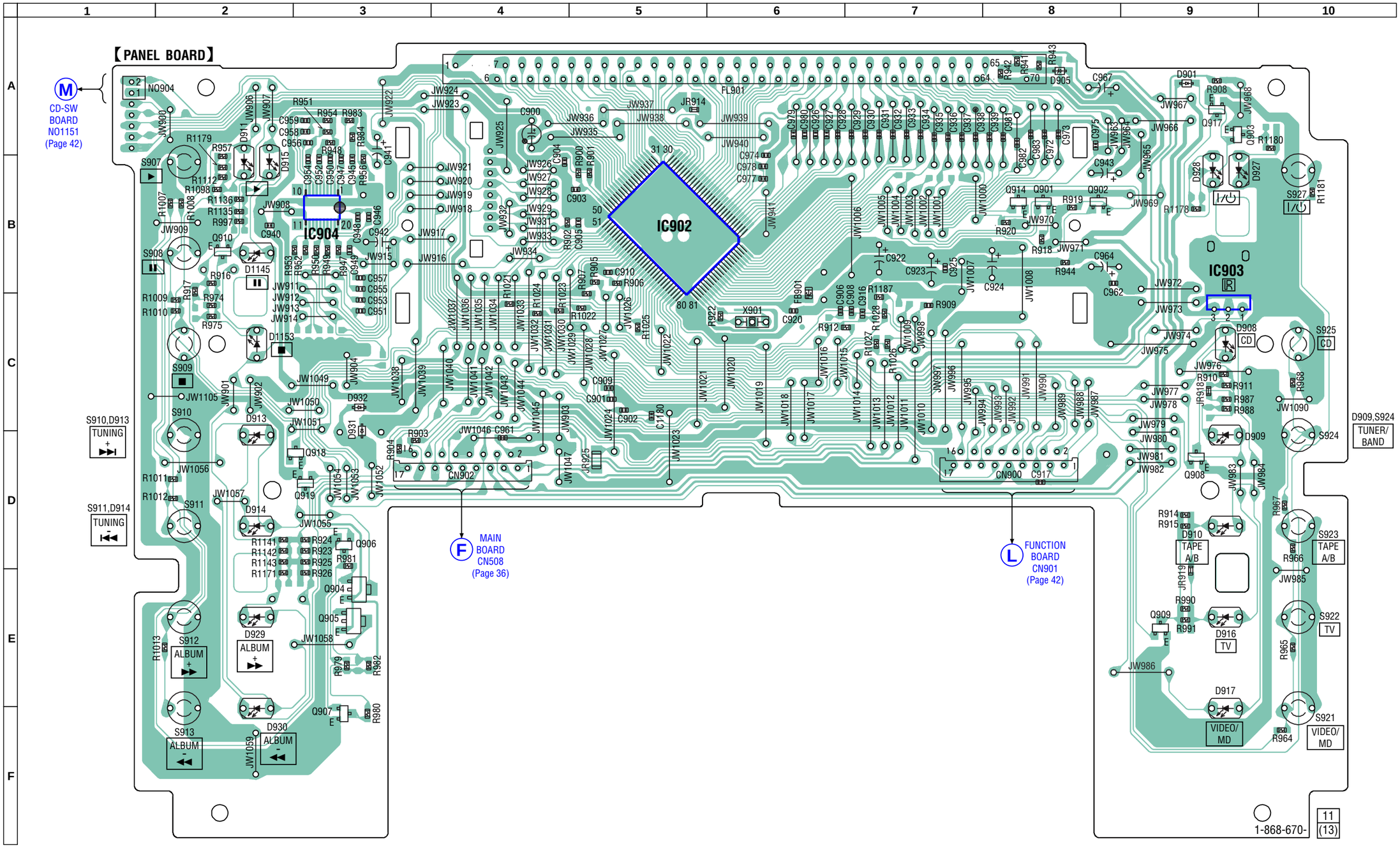
7-13. SCHEMATIC DIAGRAM – MAIN BOARD (3/3)–



7-14. PRINTED WIRING BOARD – PANEL BOARD –

• See page 26 for Circuit Boards Location.

: Uses unleaded solder.

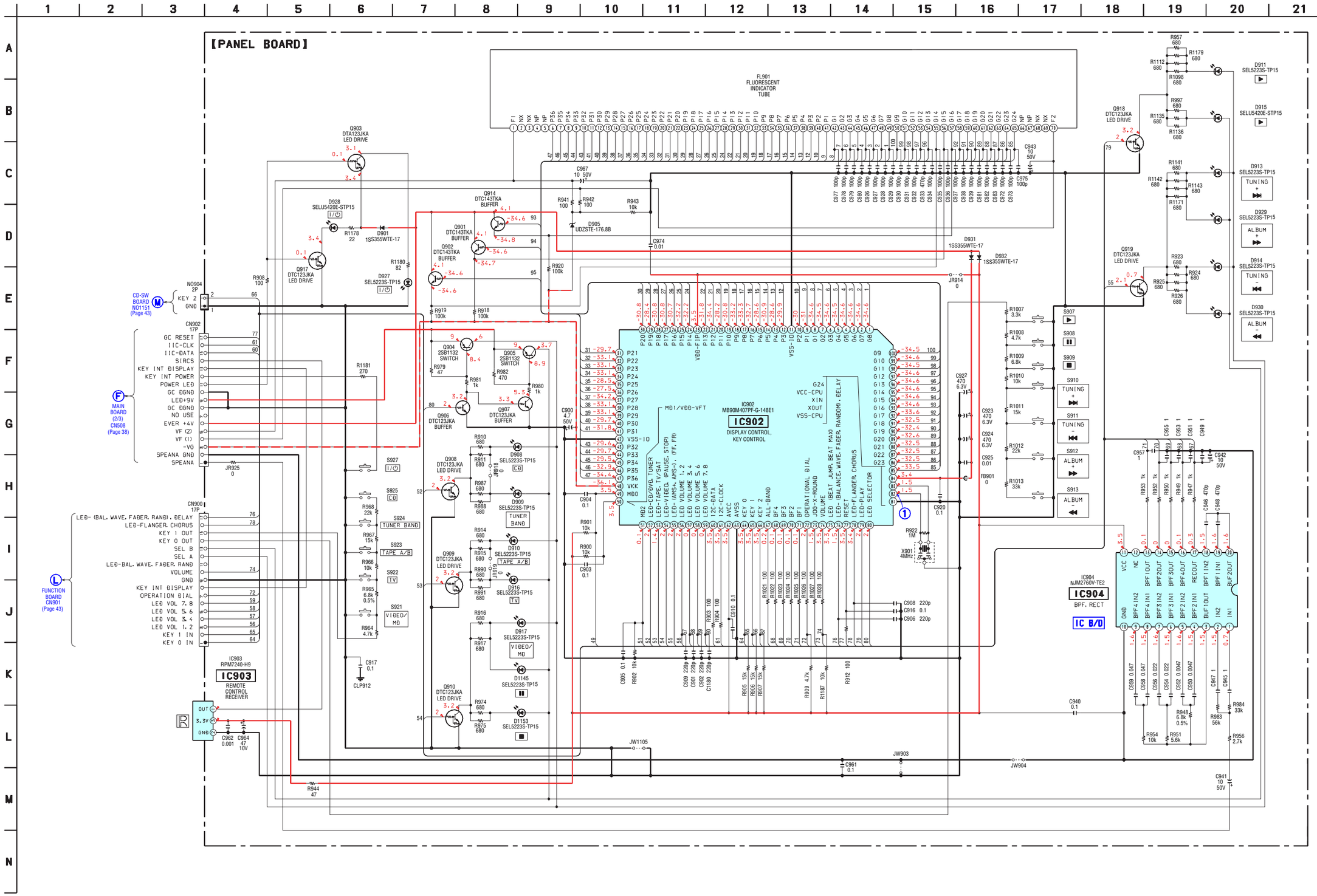


- **Semiconductor Location**

Ref. No.	Location
D901	A-9
D905	A-8
D908	C-9
D909	D-9
D910	D-9
D911	A-2
D913	C-2
D914	D-2
D915	B-2
D916	E-9
D917	E-9
D927	B-9
D928	B-9
D929	E-2
D930	F-2
D931	C-3
D932	C-3
D1145	B-2
D1153	C-2
IC902	B-5
IC903	B-9
IC904	B-3
Q901	B-8
Q902	B-8
Q903	A-9
Q904	E-3
Q905	E-3
Q906	D-3
Q907	F-3
Q908	D-9
Q909	E-9
Q910	B-2
Q914	B-8
Q917	A-9
Q918	D-3
Q919	D-3

7-15. SCHEMATIC DIAGRAM – PANEL BOARD –

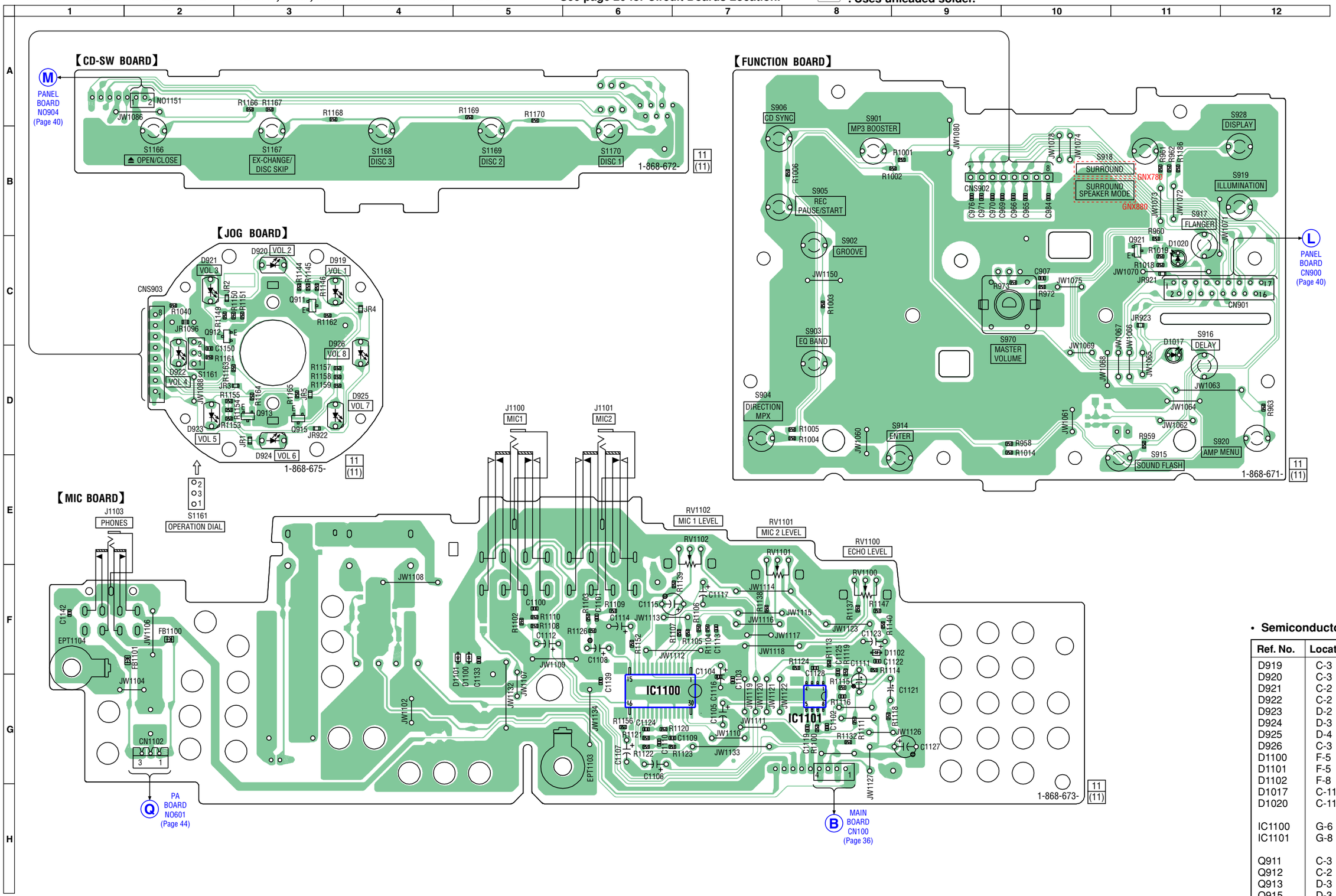
• See page 54 for IC Block Diagrams. • See page 54 for Waveforms. • See page 63 for IC Pin Function Description.



7-16. PRINTED WIRING BOARDS – CD-SW, JOG, MIC and FUNCTION BOARDS –

• See page 26 for Circuit Boards Location.

: Uses unleaded solder.

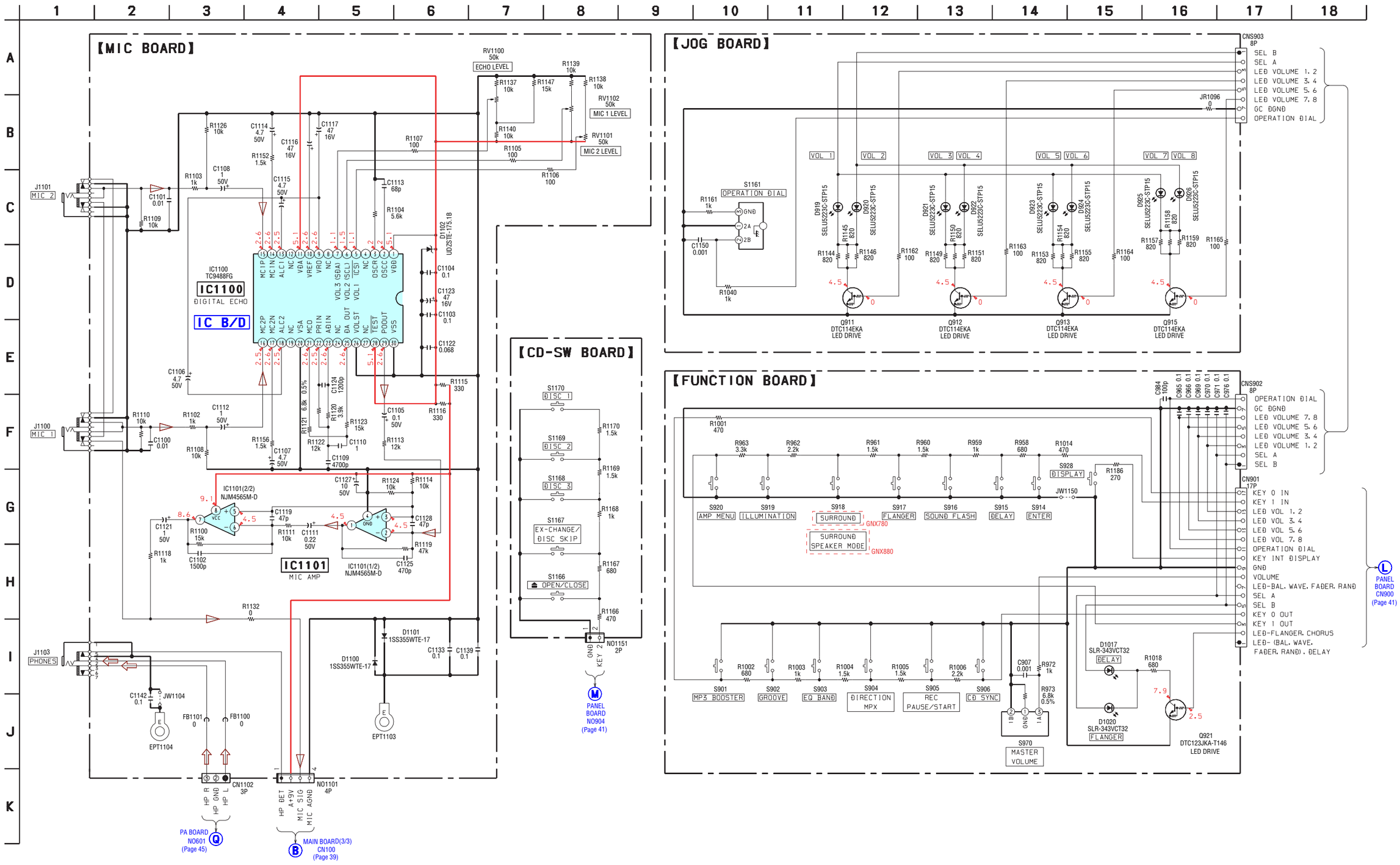


• **Semiconductor Location**

Ref. No.	Location
D919	C-3
D920	C-3
D921	C-2
D922	C-2
D923	D-2
D924	D-3
D925	D-4
D926	C-3
D1100	F-5
D1101	F-5
D1102	F-8
D1017	C-11
D1020	C-11
IC1100	G-6
IC1101	G-8
Q911	C-3
Q912	C-2
Q913	D-3
Q915	D-3
Q921	C-11

7-17. SCHEMATIC DIAGRAM – CD-SW, JOG, MIC and FUNCTION BOARDS –

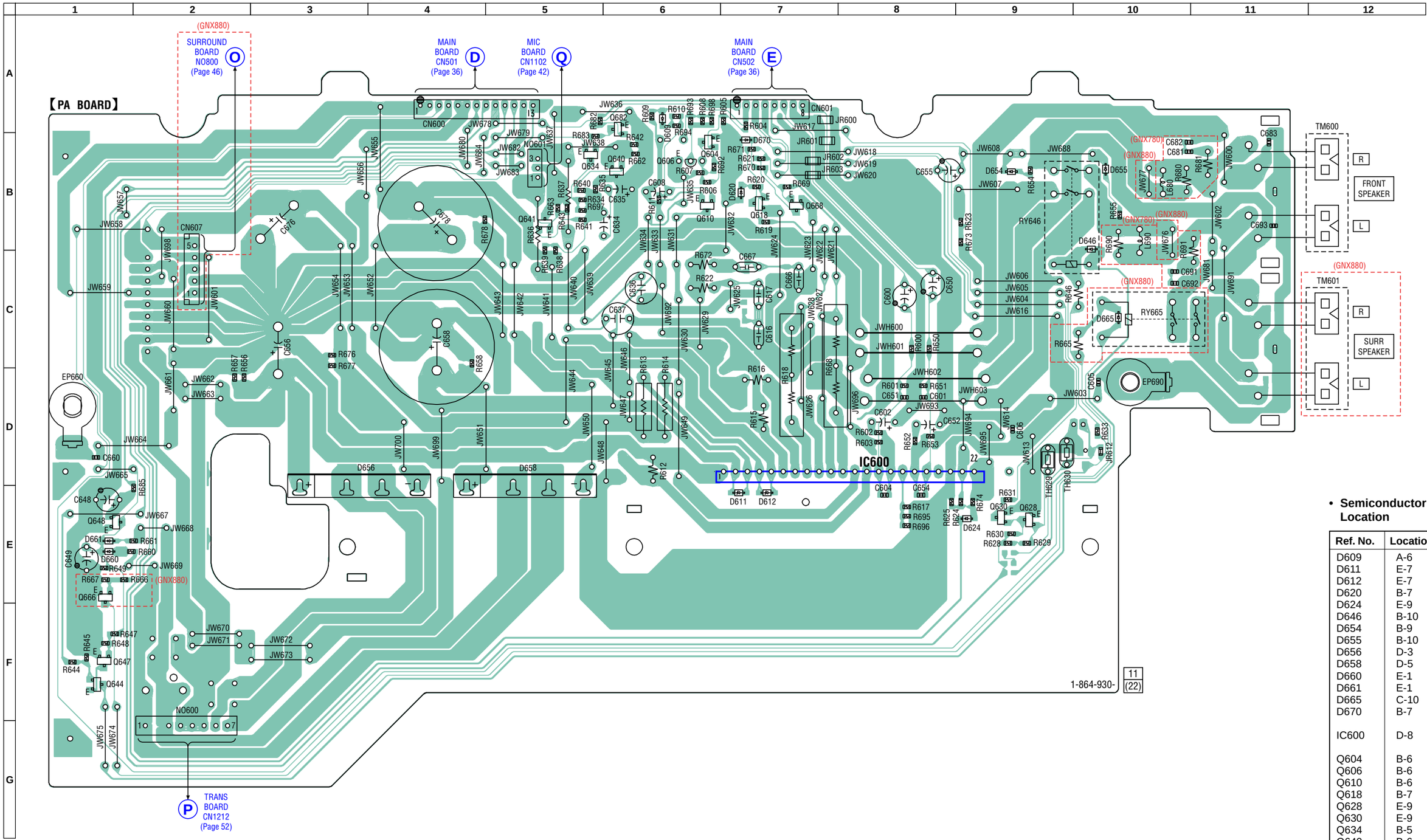
• See page 57 for IC Block Diagrams.



7-18. PRINTED WIRING BOARD – PA BOARD –

• See page 26 for Circuit Boards Location.

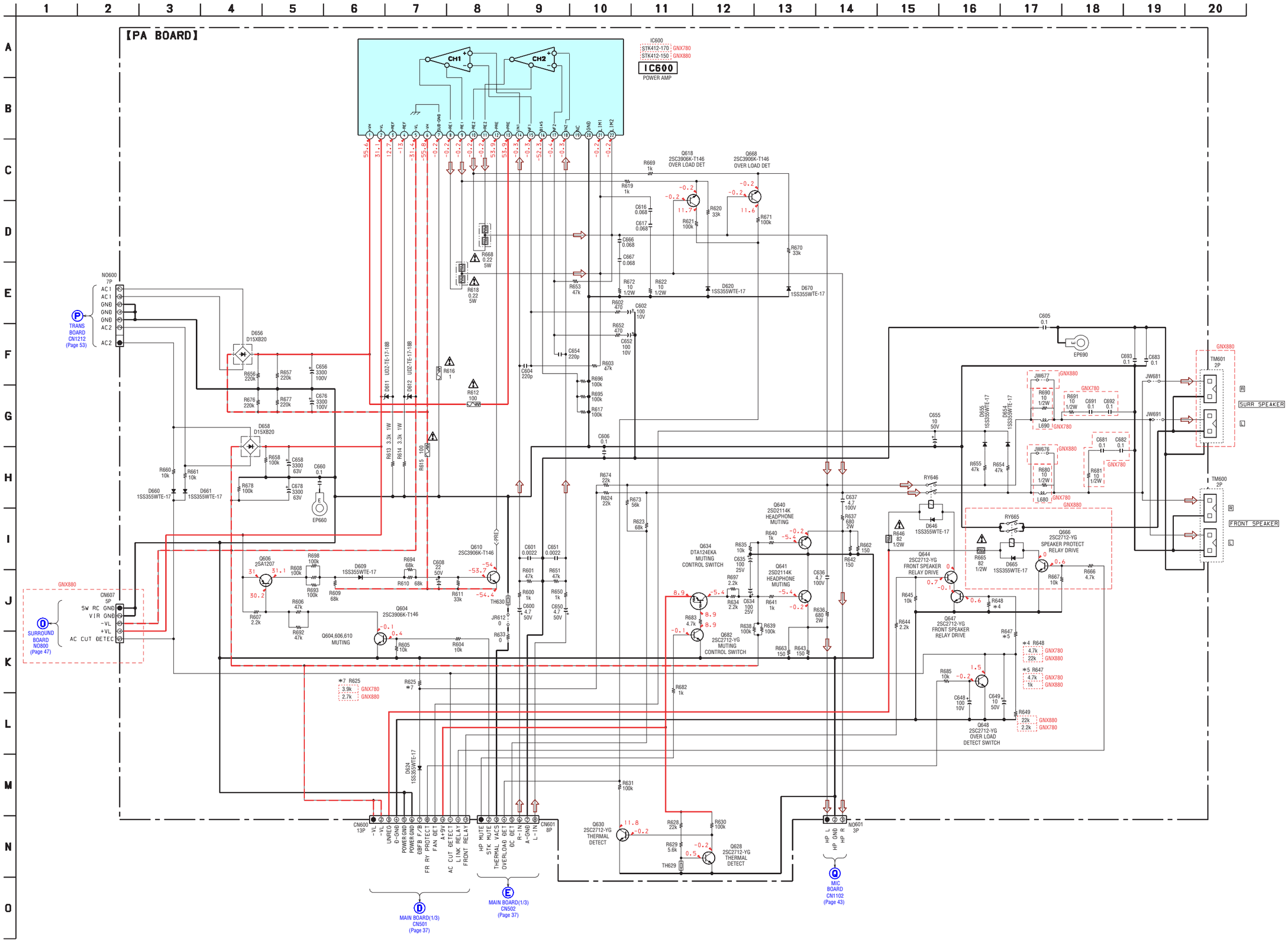
: Uses unleaded solder.



- **Semiconductor Location**

Ref. No.	Location
D609	A-6
D611	E-7
D612	E-7
D620	B-7
D624	E-9
D646	B-10
D654	B-9
D655	B-10
D656	D-3
D658	D-5
D660	E-1
D661	E-1
D665	C-10
D670	B-7
IC600	D-8
Q604	B-6
Q606	B-6
Q610	B-6
Q618	B-7
Q628	E-9
Q630	E-9
Q634	B-5
Q640	B-6
Q641	B-5
Q644	F-1
Q647	F-1
Q648	E-1
Q666	E-1
Q668	B-7
Q682	A-6

7-19. SCHEMATIC DIAGRAM – PA BOARD –

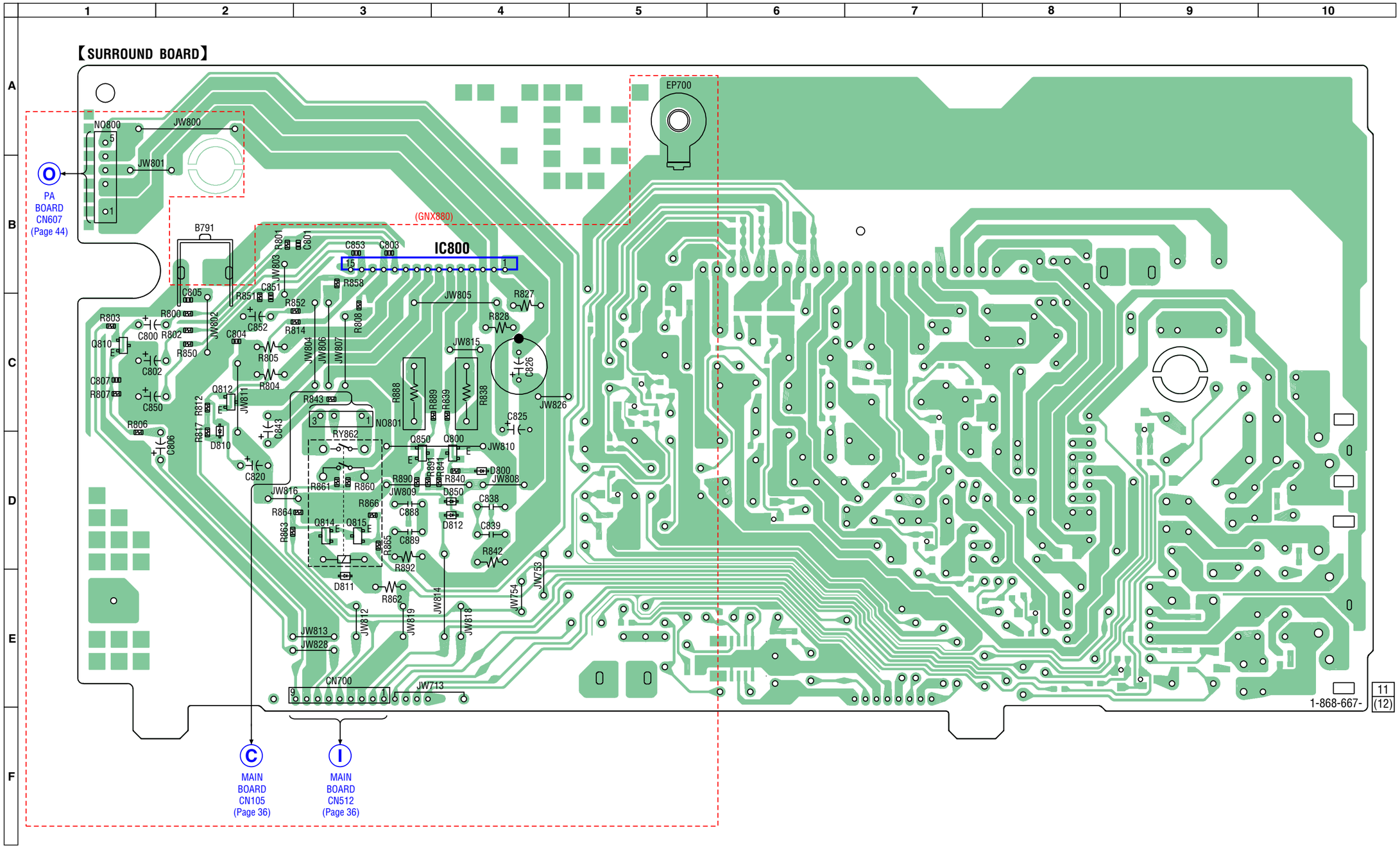


7-20. PRINTED WIRING BOARD – SURROUND BOARD –

• See page 26 for Circuit Boards Location.

: Uses unleaded solder.

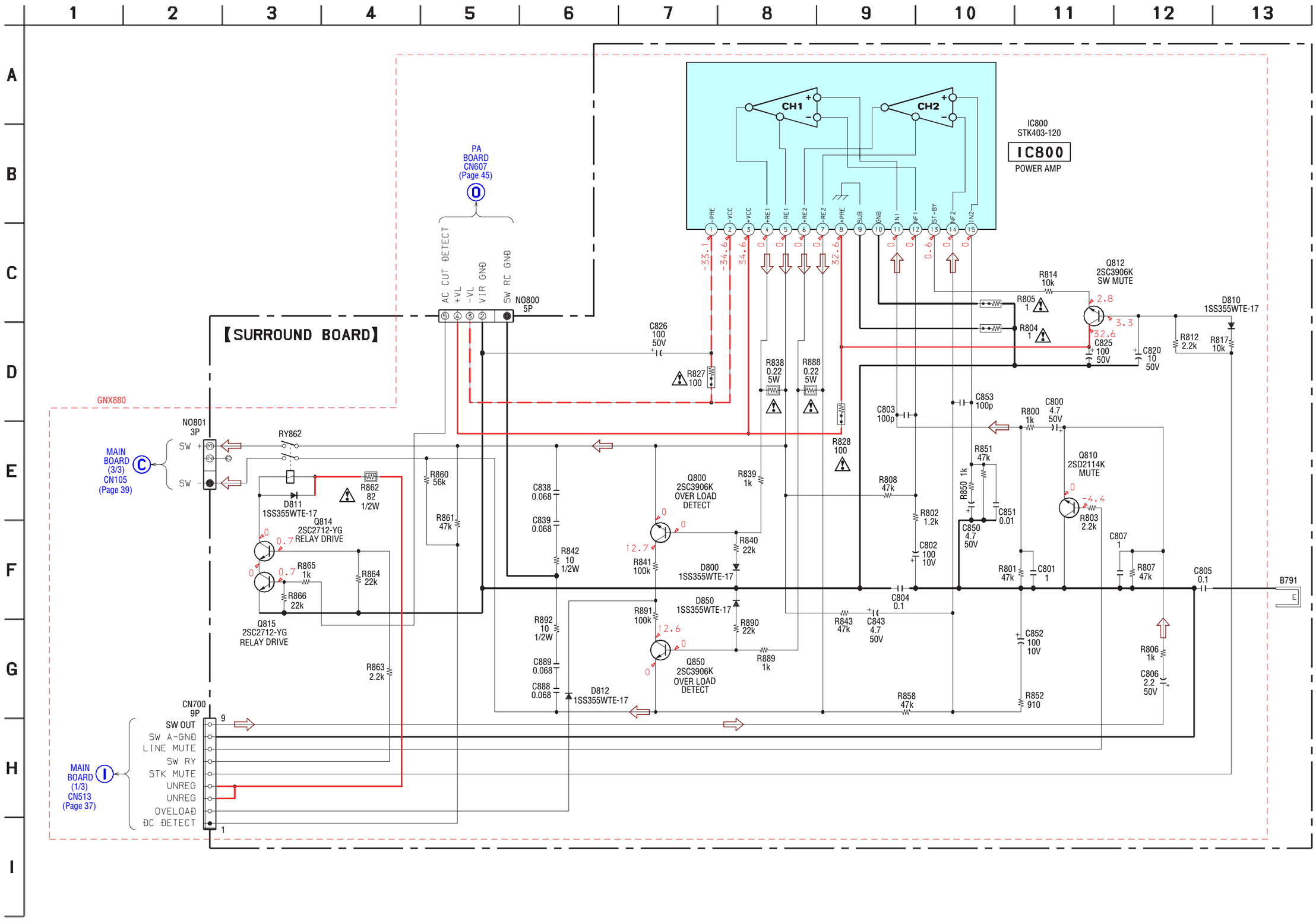
【SURROUND BOARD】



• **Semiconductor Location**

Ref. No.	Location
D800	D-4
D810	D-2
D811	E-3
D812	D-4
D850	D-4
IC800	B-4
Q800	D-4
Q810	C-1
Q812	C-2
Q814	D-3
Q815	D-3
Q850	D-3

7-21. SCHEMATIC DIAGRAM –SURROUND BOARD –

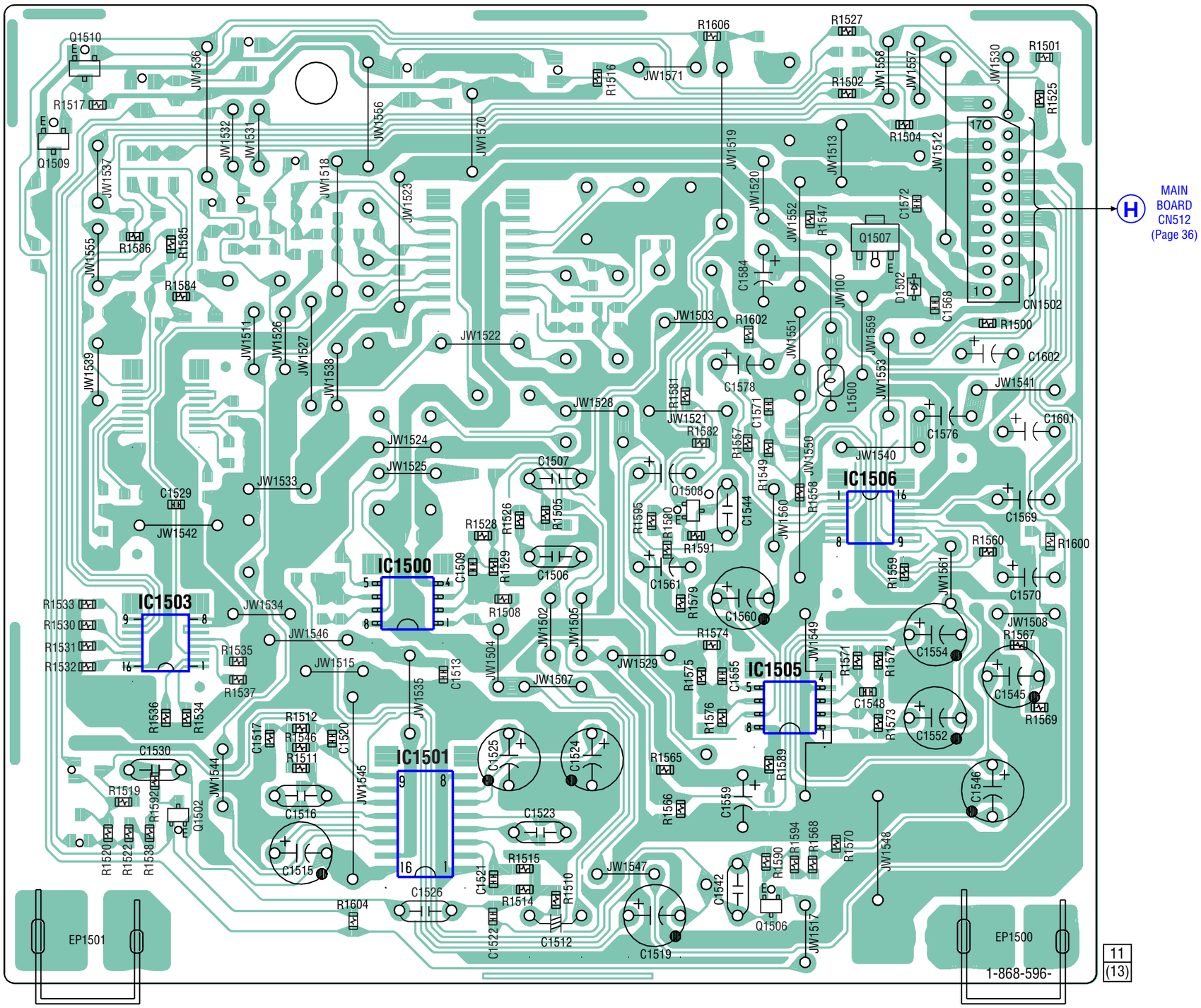


7-22. PRINTED WIRING BOARD – EFFECTOR BOARD –

• See page 26 for Circuit Boards Location.

: Uses unleaded solder.

【EFFECTOR BOARD】

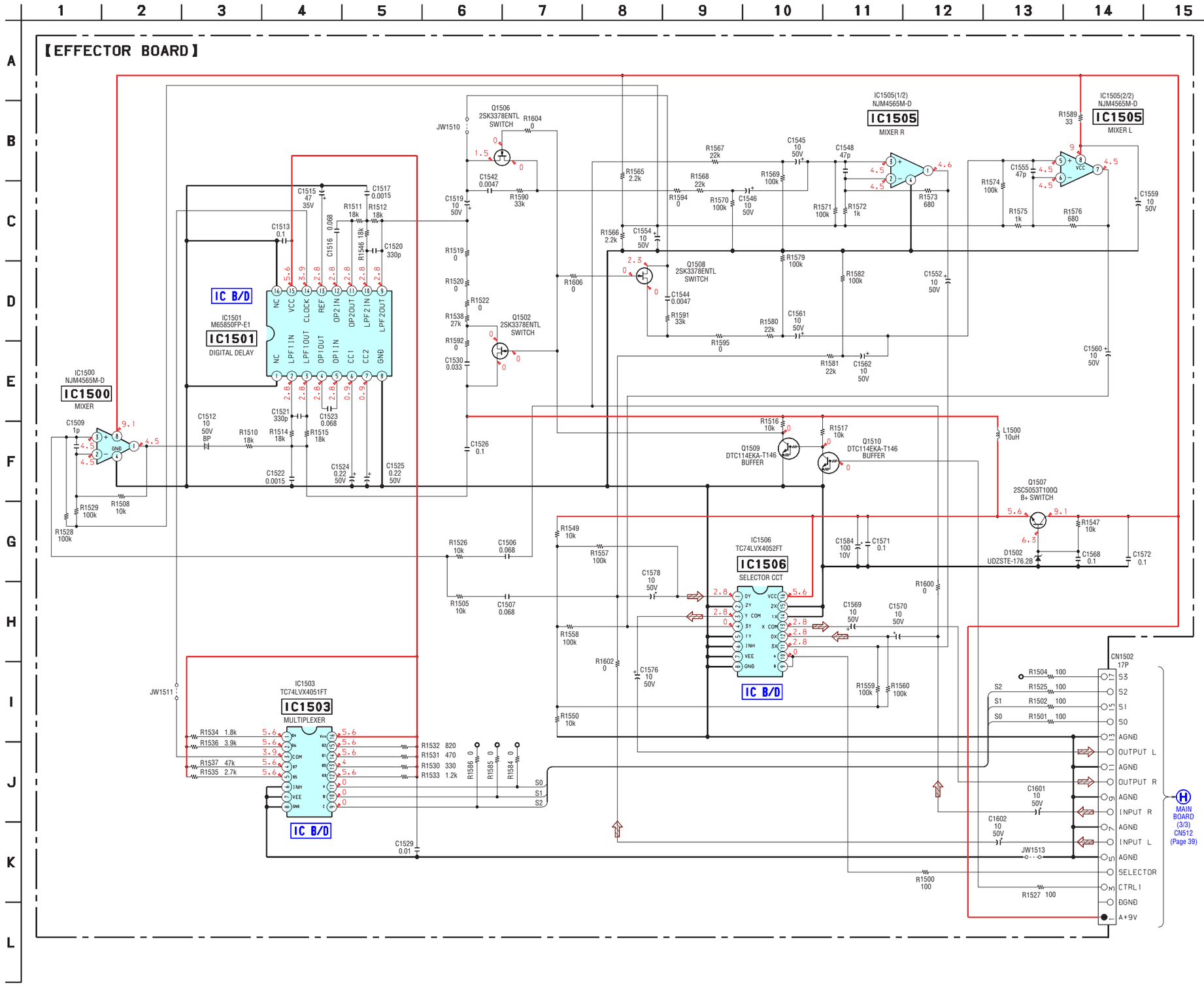


• Semiconductor Location

Ref. No.	Location
D1502	B-6
IC1500	D-3
IC1501	E-3
IC1503	D-2
IC1505	E-5
IC1506	C-6
Q1502	E-2
Q1506	F-5
Q1507	B-6
Q1508	D-5
Q1509	B-1
Q1510	A-1

7-23. SCHEMATIC DIAGRAM – EFFECTOR BOARD –

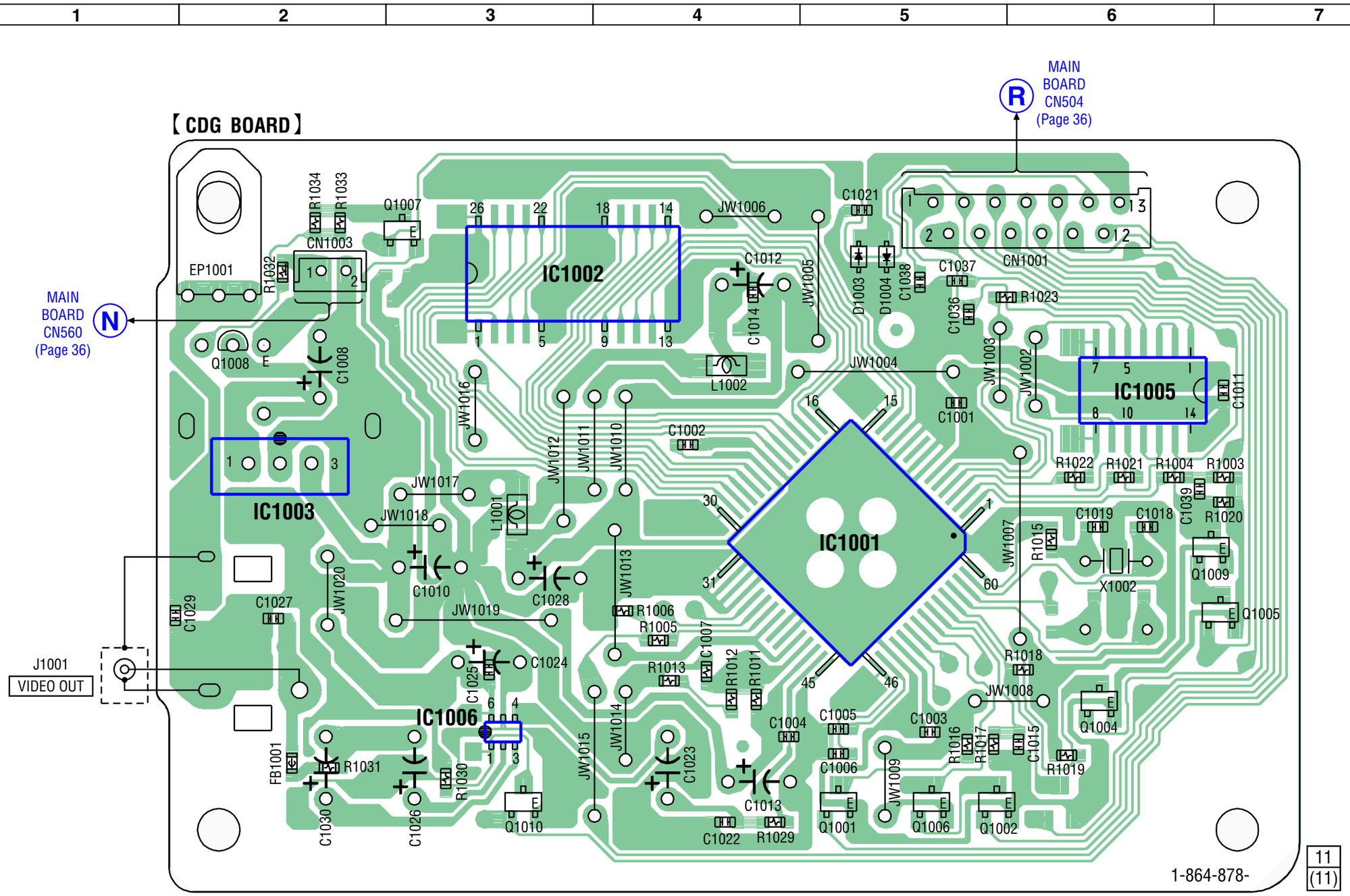
• See page 56 for IC Block Diagrams.



7-24. PRINTED WIRING BOARD – CDG BOARD –

• See page 26 for Circuit Boards Location. : Uses unleaded solder.

【CDG BOARD】

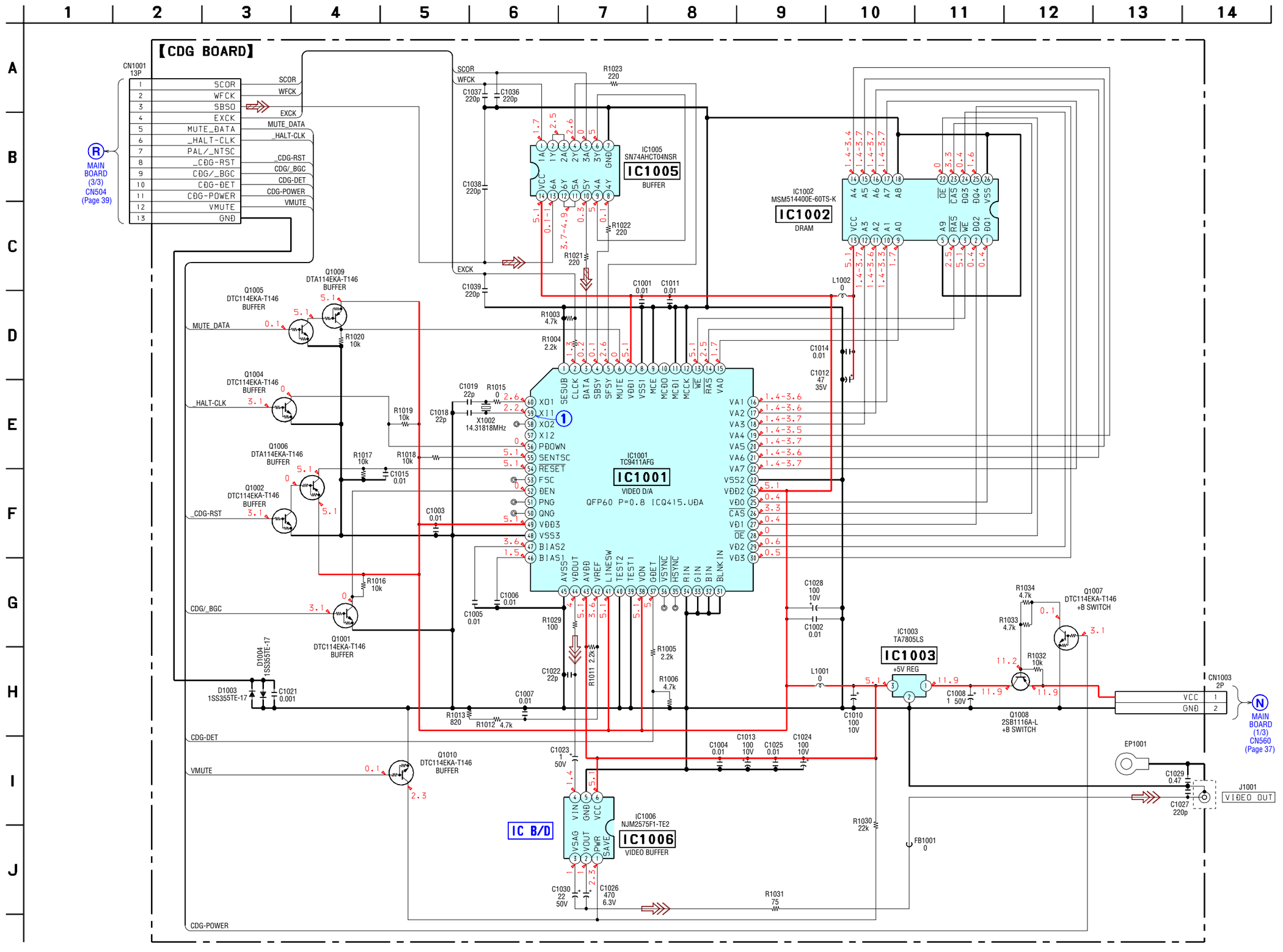


• **Semiconductor Location**

Ref. No.	Location
D1003	B-5
D1004	B-5
IC1001	C-5
IC1002	B-3
IC1003	C-2
IC1005	B-6
IC1006	D-3
Q1001	D-5
Q1002	D-5
Q1004	D-6
Q1005	C-7
Q1006	D-5
Q1007	A-3
Q1008	B-2
Q1009	C-6
Q1010	D-3

7-25. SCHEMATIC DIAGRAM – CDG BOARD –

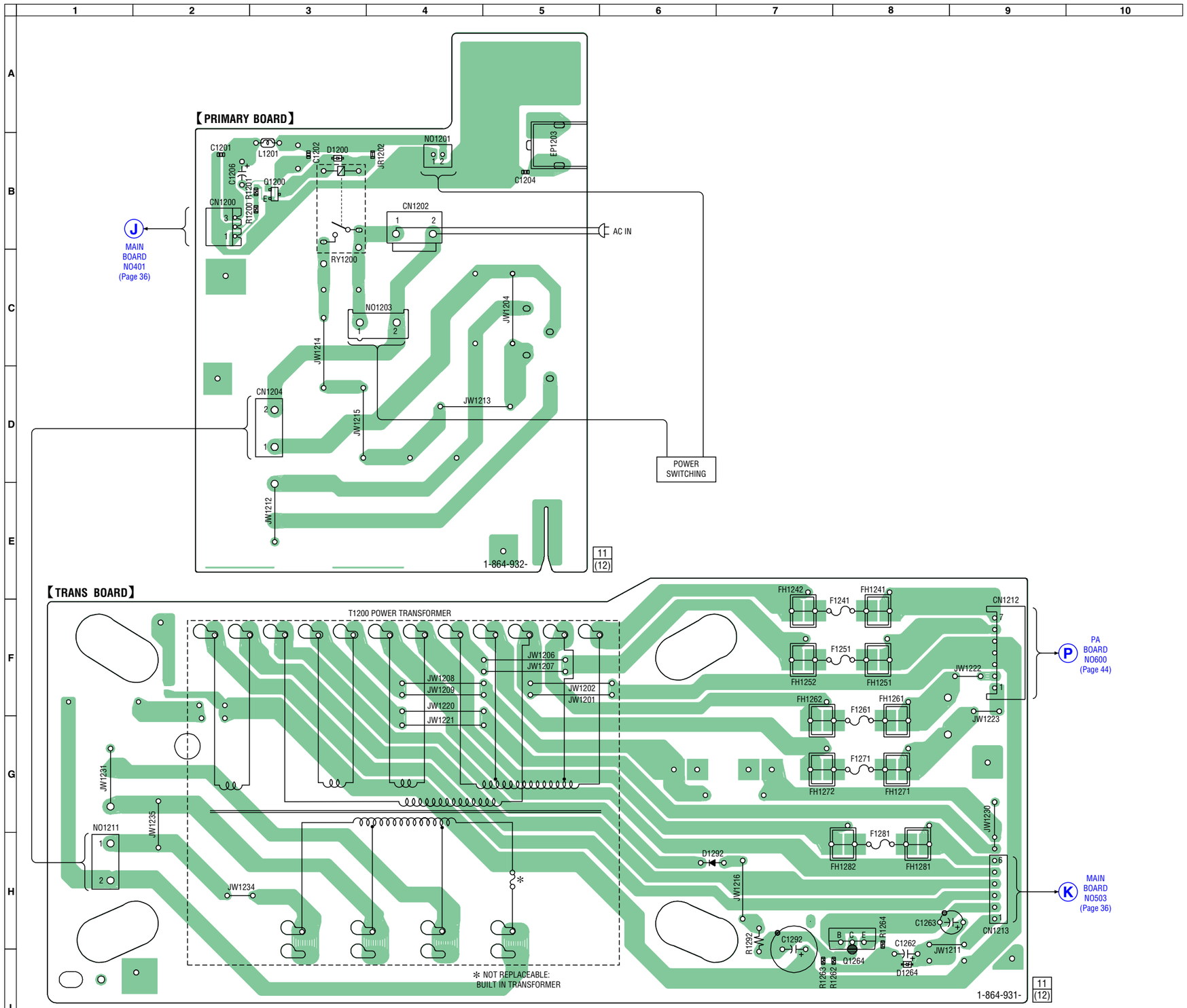
• See page 57 for IC Block Diagrams. • See page 54 for Waveforms.



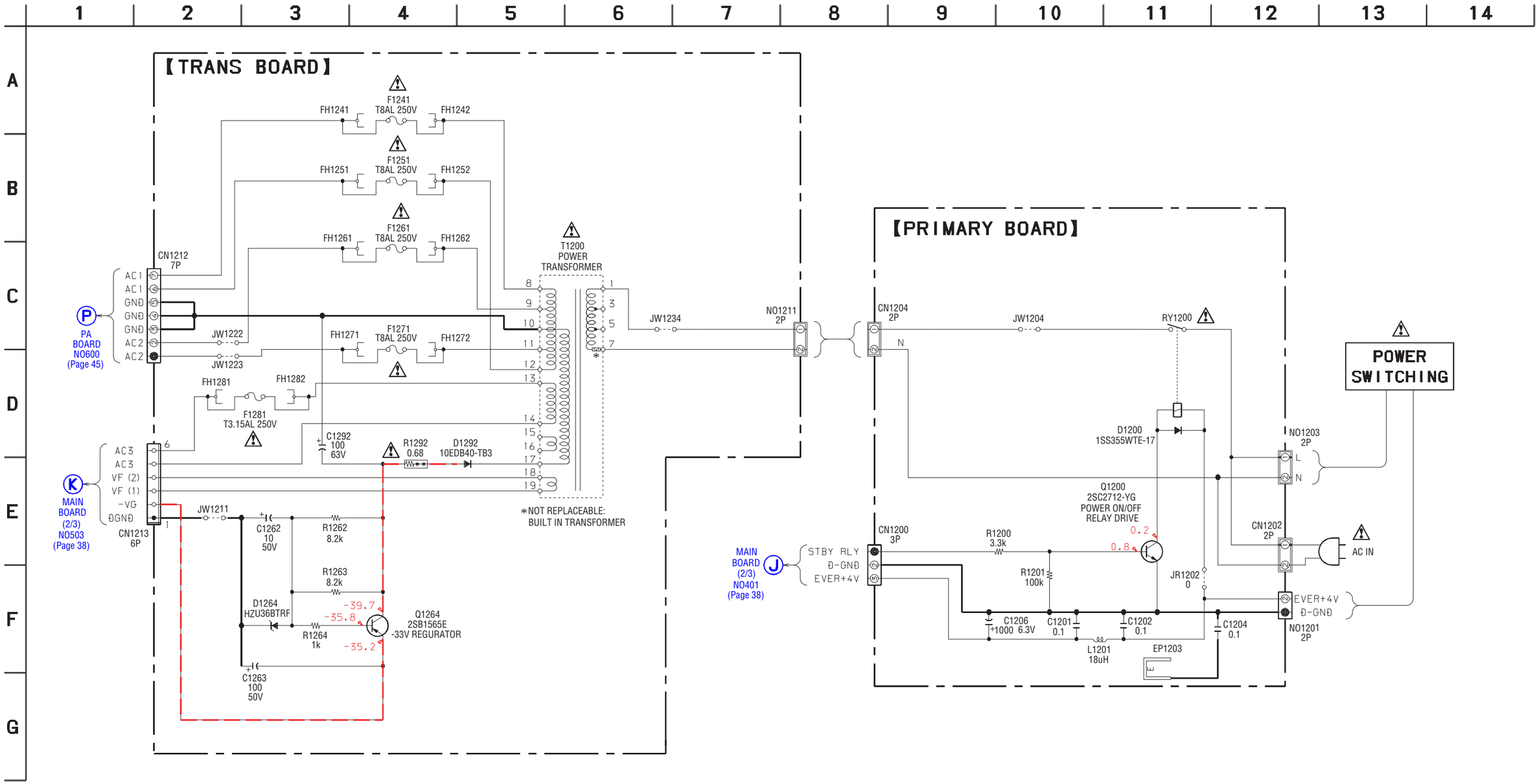
7-26. PRINTED WIRING BOARDS – POWER SECTION –

• See page 26 for Circuit Boards Location.

: Uses unleaded solder.



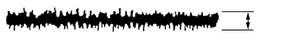
7-27. SCHEMATIC DIAGRAM – POWER SECTION –



• WAVEFORMS

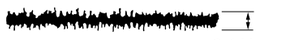
– CD BOARD –

① IC101 ㉑ TEI



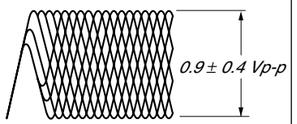
0.2V/DIV, 0.2 msec/DIV

② IC101 ㉓ FEI



0.1V/DIV, 1 msec/DIV

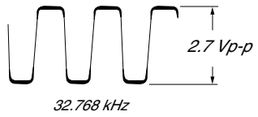
③ IC101 ㊶ RFAC



0.2V/DIV, 0.5 µsec/DIV

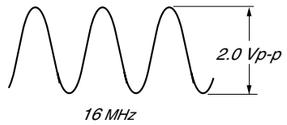
– MAIN BOARD –

① IC401 ⑪ XC-OUT



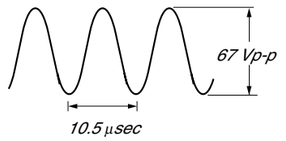
1V/DIV, 10 µsec/DIV

② IC401 ⑬ X-OUT



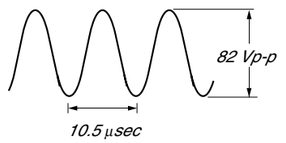
1V/DIV, 50 nsec/DIV

③ T301 ⑤ TAPE REC only



50V/DIV, 10 µsec/DIV

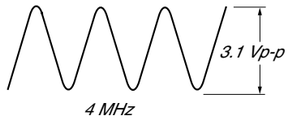
④ T301 ④ TAPE REC only



50V/DIV, 10 µsec/DIV

– PANEL BOARD –

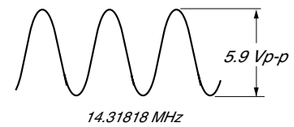
① IC902 ㉜ X OUT



1V/DIV, 0.2 µsec/DIV

– CDG BOARD –

① IC1001 ㊾ XI1

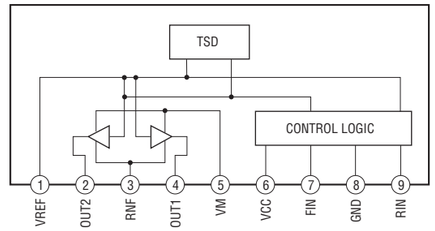


2V/DIV, 50 nsec/DIV

• IC Block Diagram

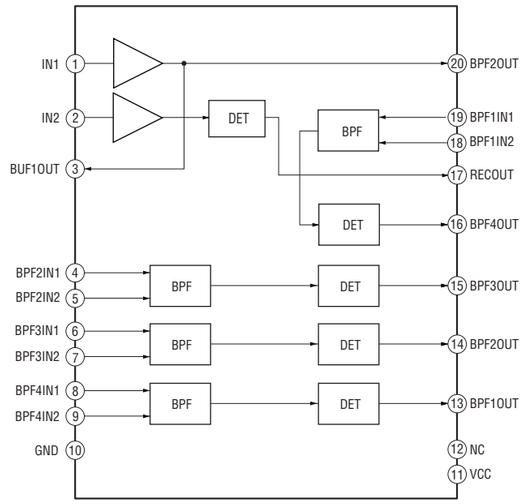
– DRIVER Board –

IC701, 712 BA6956AN



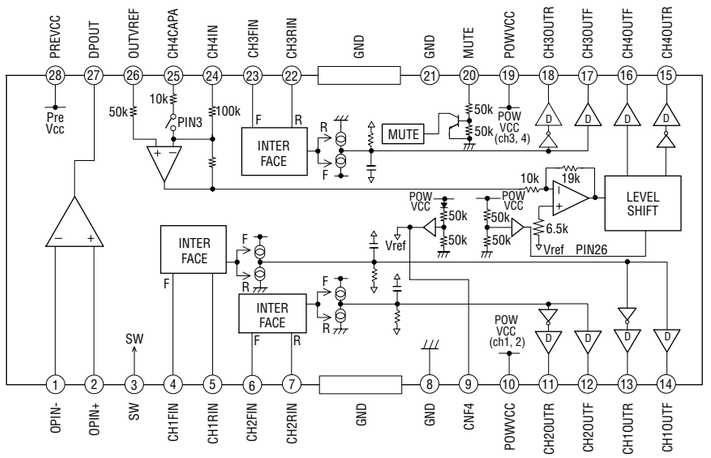
– PANEL Board –

IC904 NJM2760V-TE2



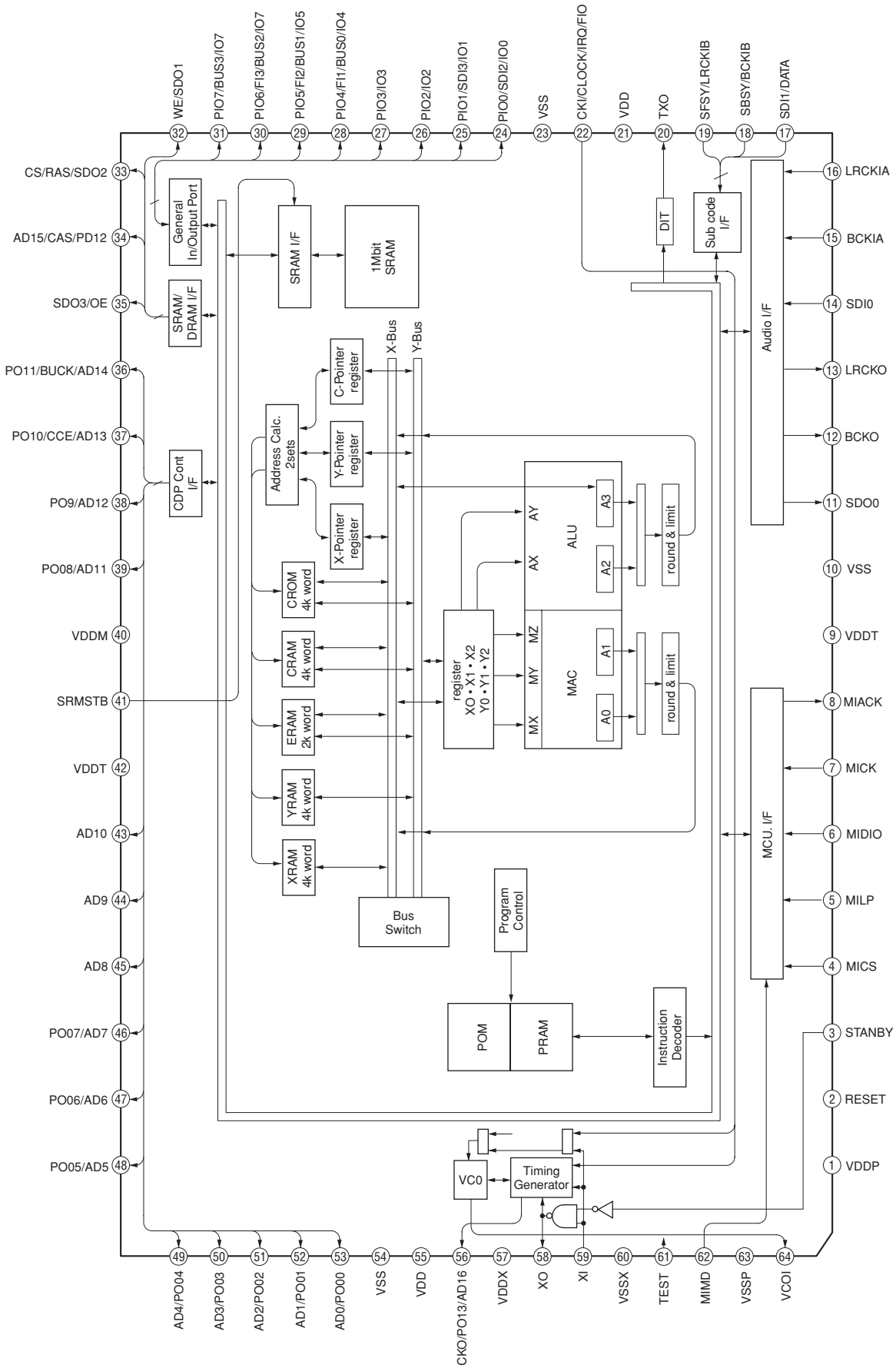
– BD84 Board –

IC251 BA5947FM-E2



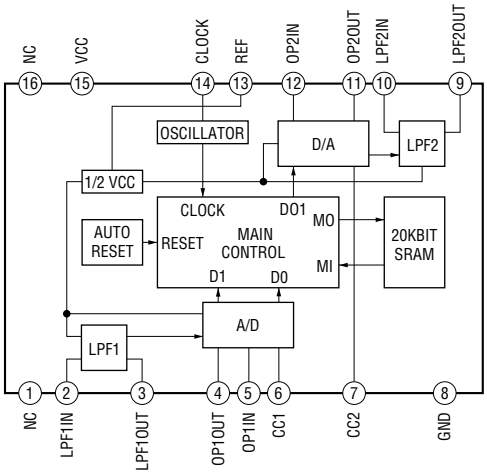
– BD84 Board –

IC301 TC94A34FG-002

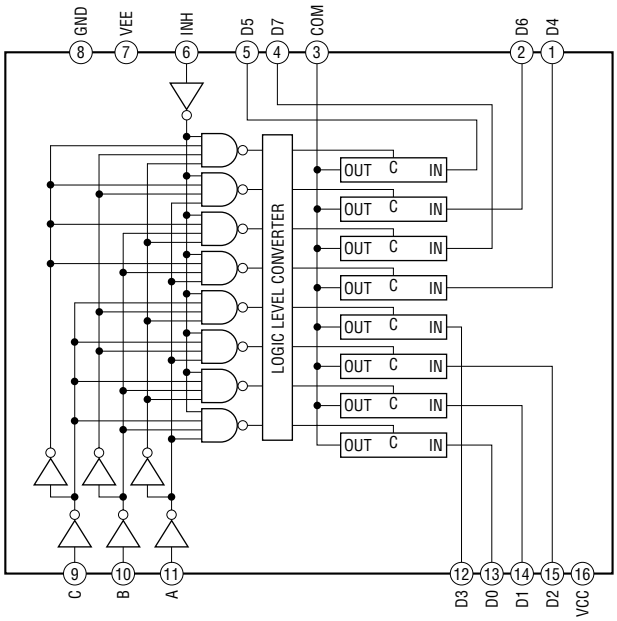


– EFFECTOR Board –

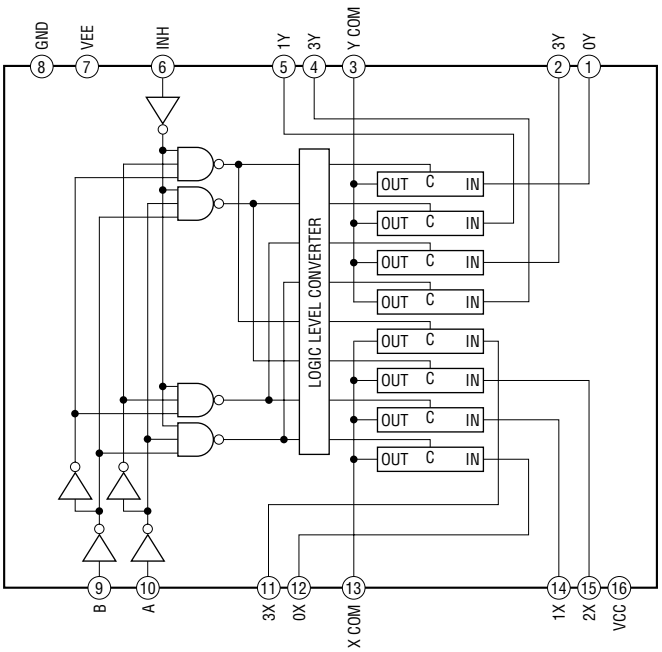
IC1501 M65850FP-E1



IC1503 TC74LVX4051FT

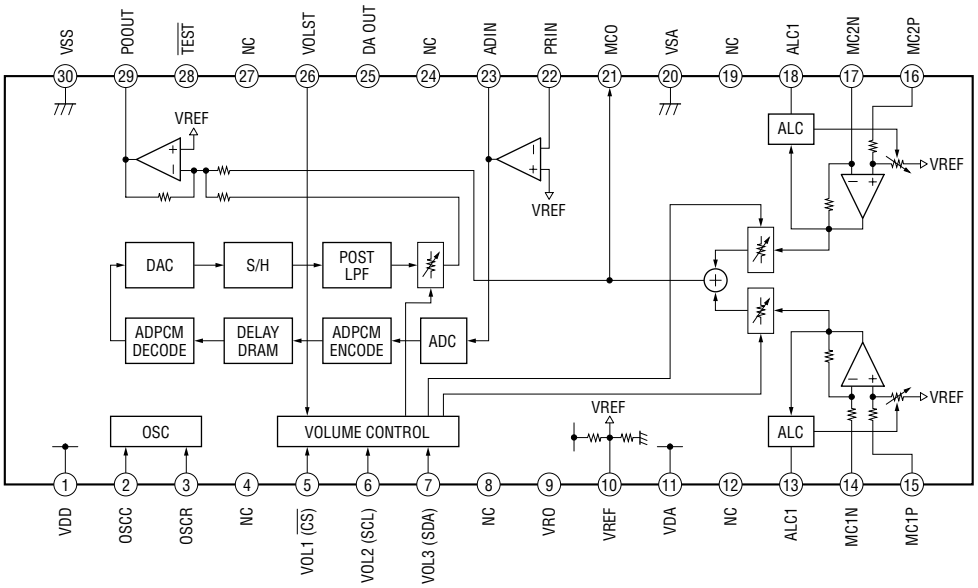


IC1506 TC74LVX4052FT



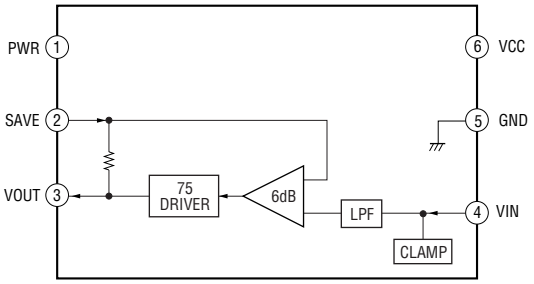
– MIC Board –

IC1100 TC9488FG



– CDG Board –

IC1006 NJM2575F1-TE2



7-28. IC Pin Function Descriptions

• IC101 CXD3059AR (RF AMP) (BD84 BOARD)

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

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

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

• IC401 M30622MEP-A75FPUO SYSTEM CONTROL (MAIN BOARD)

Pin No.	Pin Name	I/O	Description
1	XRST	O	Reset signal output to CXD3059AR (“L”: reset)
2	CD-DATA	O	Serial data output to CXD3059AR
3	XLAT	O	Serial data latch signal output to CXD3059AR
4	SIRCS	I	Remote control signal input
5	MP3 DATA OUT	O	Serial data output to TC94A34FG
6	MP3 DATA IN	I	Serial data input from TC94A34FG
7	MP3 CLK	O	Serial data transfer clock output to TC94A34FG
8	BYTE	I	Not used (Connected to ground)
9	CNVSS	–	Ground at test (Pull down)
10	XC-IN	I	Sub system clock input (32.768KHz)
11	XC-OUT	O	Sub system clock output (32.768KHz)
12	RESET	I	System reset signal input
13	X-OUT	O	Main system clock output (5MHz)
14	VSS	–	Ground terminal
15	X-IN	I	Main system clock input (5MHz)
16	VCC	–	Power supply terminal (+3.3V)
17	NMI	I	Non-maskable interrupt input (Not used) (Pull up with resistor)
18	CD-CLK	O	Serial data transfer clock output to CXD3059AR
19	SCOR	I	Sub code sync (S0+S1) detection signal input from CXD3059AR
20	AC-CUT	I	AC off detection signal input (“L”: AC cut detected)
21	SENS	I	Internal status detection monitor input from CXD3059AR
22	MP3 RST	O	Reset signal output to TC94A34FG
23	MP3 CS	O	Chip select signal output to TC94A34FG (“L”: enable)
24	MP3 LP	O	Latch pulse output to TC94A34FG (“L”: enable)
25	MP3 ACK	I	Acknowledgement signal input from TC94A34FG (“L”: acknowledged)
26	MP3 REQ	I	Request signal input to TC94A34FG
27	MP3 STB	O	Standby mode signal output to TC94A34FG (“L”: standby mode)
28	XTCN	O	Oscillation on/off control signal output to CXD3059AR (“H”: on)
29	IIC-CLK	I/O	IIC bus serial clock input/output
30	IIC-DATA	I/O	IIC bus serial data input/output
31	VMUTE	O	CDG video signal muting on/off control signal output (“H”: muting on)
32	CD POWER	O	Power on/off control signal output (“H”: power on)
33	CDG DET	I	CDG disc detection signal input (“H”: CDG disc detected)
34	EFFECTOR-SELECT	O	Effector circuitry bypass control signal output (“L”: bypass)
35	CDG RST	O	Reset signal output to the CDG decoder (“L”: reset)
36	EFFECTOR-S0	O	Effector circuitry delay time selection bit 0 output
37	CD MUTE	O	CD analog signal muting on/off control signal output “H”: muting on)
38	OPEN SW	I	Eject detection signal input from CD mechanism deck
39	TBL-SENS	I	Disc tray position detection signal input from CD mechanism deck
40	E-3	I	Disc tray status detection signal input from CD mechanism deck
41	E-2	I	Disc tray status detection signal input from CD mechanism deck
42	E-1	I	Disc tray status detection signal input from CD mechanism deck
43	TM-F	O	Table motor control signal output
44	TM-R	O	Table motor control signal output
45	LMF	O	Table loading motor control signal output
46	LMR	O	Table loading motor control signal output
47	NO USE	I	Not used
48	A-HALF	I	Deck A cassette detection signal input (“H”: Cassette detected)
49	EFFECTOR-S1	O	Effector circuitry delay time selection bit 1 output

Pin No.	Pin Name	I/O	Description
50	EFFECTOR-S2	O	Effector circuitry delay time selection bit 2 output
51	NO USE	I	Not used
52	EFFECTOR CTRL 1	O	Flanger on/off signal output (“H”: on)
53	A-TRIG	O	Deck A side trigger plunger drive signal output (“H”: plunger on)
54	CAPM-CONT	O	Capstan motor drive signal output
55	B-TRIG	O	Deck B side trigger plunger drive signal output (“H”: plunger on)
56	REC BIAS	O	Recording bias on/off control signal output (“H”: bias on)
57	TC-RELAY	O	Recording/playback selection signal output (“H”: recording “L”: playback)
58	ALC	O	Automatic limiter control signal output (“H”: limiter on)
59	PB-AB	O	“Deck A/B playback selection signal output (“H”: deck A “L”: deck B)
60	FAN HI SPEED	O	Fan speed control signal output (“L”: high speed)
61	UNDER VOLTAGE DET	I	Under-voltage protection detection input (“H”: under-voltage detected)
62	VCC	–	Power supply terminal (+3.3V)
63	$\overline{\text{OVER VOLTAGE}}$	I	Over-voltage protection detection input (“L”: over-voltage detected) (Fixed at “L”)
64	VSS	–	Ground terminal
65	TC MUTE	O	Tape playback muting on/off control signal output (“H”: muting on)
66	LINE MUTE	O	Line muting on/off control signal output (“H”: muting on)
67	REC MUTE	O	Recording muting on/off control signal output (“H”: muting on)
68	SW RY	O	Sub woofer relay drive signal output (“H”: relay on)
69	STBY-RLY	O	Main power on/off control signal output (“H”: power on)
70	$\overline{\text{PROT}}$	I	Speaker protect detection signal input (“L”: protector on)
71	GC-RESET	O	Reset signal output to MB90M407PF (“L”: reset)
72	STBY-LED/FAN CTRL	O	POWER indicator LED drive signal output (“H”: green color “L”: red color)
73	DISPLAY-KEY	I	DISPLAY key press detection Interrupt signal input
74	POWER-KEY	I	POWER key press detection Interrupt signal input
75	$\overline{\text{HP-MUTE}}$	O	Headphone muting on/off control signal output (“H”: muting on)
76	FR RELAY	O	Front speakers relay drive signal output (“H”:relay on)
77	LINK/SURR-RLY	O	Surround speaker mode control signal output (“H”: LINK “L”: MATRIX SURROUND1/2)
78	STK-MUTE	O	Power amplifier and sub woofer amplifier on/off control signal output (“H”: amplifier on)
79	M61530-DATA	O	Serial data output to M61530FP
80	M61530-CLK	O	Serial data transfer clock output to M61530FP
81	M61529-DATA	O	Serial data output to M61529FP
82	M61529-CLK	O	Serial data transfer clock output to M61529FP
83	SW ON LED	O	SUB WOOFER ON LED drive signal output (“H”: LED on)
84	ST-CE	O	PLL chip enable signal output to the tuner unit
85	MC DIN (ST)	I	PLL serial data input to the tuner unit
86	ST-CLK	O	PLL serial data transfer clock output to the tuner unit
87	MC DOUT (ST)	O	PLL serial data output from the tuner unit (“L”: tuned)
88	TUNED	I	Tuning detection signal input from the tuner unit
89	A SHUT	I	Shut off detection signal input from deck A side reel pulse detector
90	B SHUT	I	Shut off detection signal input from deck A side reel pulse detector
91	NO USE	I	Not used
92	MODEL-IN	I	Model setting input
93	DEST-IN	I	Destination input
94	B-HALF	I	Deck B cassette , forward side recording tab and reverse side recording tab detection signal input
95	SW VOL IN	I	Subwoofer volume level detect signal input from subwoofer volume jog
96	AVSS	–	Ground terminal (for A/D conversion)
97	THERMAL VACS	I	Temperature detection signal input from thermistor
98	VREF	I	A/D converter reference voltage input terminal (+3.3V)
99	AVCC	–	Power supply terminal (+3.3V) (for A/D conversion)
100	HP DET	I	Headphone connection detection signal input (“H”: headphone connected)

• **IC902 MB90M407PF-G-148E1 DISPLAY CONTROL (PANEL BOARD)**

Pin No.	Pin Name	I/O	Description
1 to 8	G8 to G1	O	FLD grid signal output
9, 10	P1,P2	O	FLD segment signal output
11	VSS-IO	–	Ground terminal
12 to 22	P3 to P13	O	FLD segment signal output
23	VDD-FIP	–	Power supply terminal(+3.3V)
24 to 41	P14 to P31	O	FLD segment signal output
42	VSS-IO	–	Ground terminal
43 to 47	P32 to P36	O	FLD segment signal output
48	VKK	–	Power supply terminal (-35V)
49	MD0	I	Micom operating mode (Pull up)
50	MD1/VDD-VFT	I	Micom operating mode (Pull up)
51	MD2	I	Micom operating mode (Pull down)
52	LED-CD/DVD,TUNER	O	LED drive signal output
53	LED-TAPE,TV/SAT	O	LED drive signal output
54	LED-VIDEO (PAUSE,STOP)	O	LED drive signal output
55	LED-(AMS+,AMS-),(FF,FR)	O	LED drive signal output
56	LED-VOLUME 1,2	O	LED drive signal output
57	LED-VOLUME 3,4	O	LED drive signal output
58	LED-VOLUME 5,6	O	LED drive signal output
59	LED-VOLUME 7,8	O	LED drive signal output
60	IIC DATA	I/O	IIC bus serial data input/output
61	IIC CLOCK	I/O	IIC bus serial clock input/output
62	AVCC	–	Power supply terminal (+3.3V)
63	AVSS	–	Ground terminal
64 to 66	KEY0 to KEY2	I	Key input (A/D)
67	ALL BAND	I	Audio L+R signal input
68 to 71	BPF4 to BPF1	I	Spectrum analyzer signal input
72	OPERATION DIAL	I	OPERATION DIAL encoder signal input
73	JOG X-ROUND	I	X-ROUND JOG encoder signal input (Not used)
74	VOLUME	I	Volume encoder signal input
75	LED-(BEAT JUMP,BEAT MAX)	O	LED drive signal output (Not used)
76	LED-(BALANCE,WAVE, FADER,RANDOM),DELAY	O	LED drive signal output (Not used)
77	RESET	I	Reset signal input
78	LED-FLANGER,CHORUS	O	LED drive signal output
79	LED-PLAY	O	LED drive signal output
80	LED-SELECTOR	O	LED group select signal output
81	VSS-CPU	–	Ground terminal
82	XOUT	O	Crystal oscillator output (4MHz)
83	XIN	I	Crystal oscillator input (4MHz)
84	VCC-CPU	–	Power supply terminal (+3.3V)
85 to 100	G24 to G9	O	FLD grid signal output

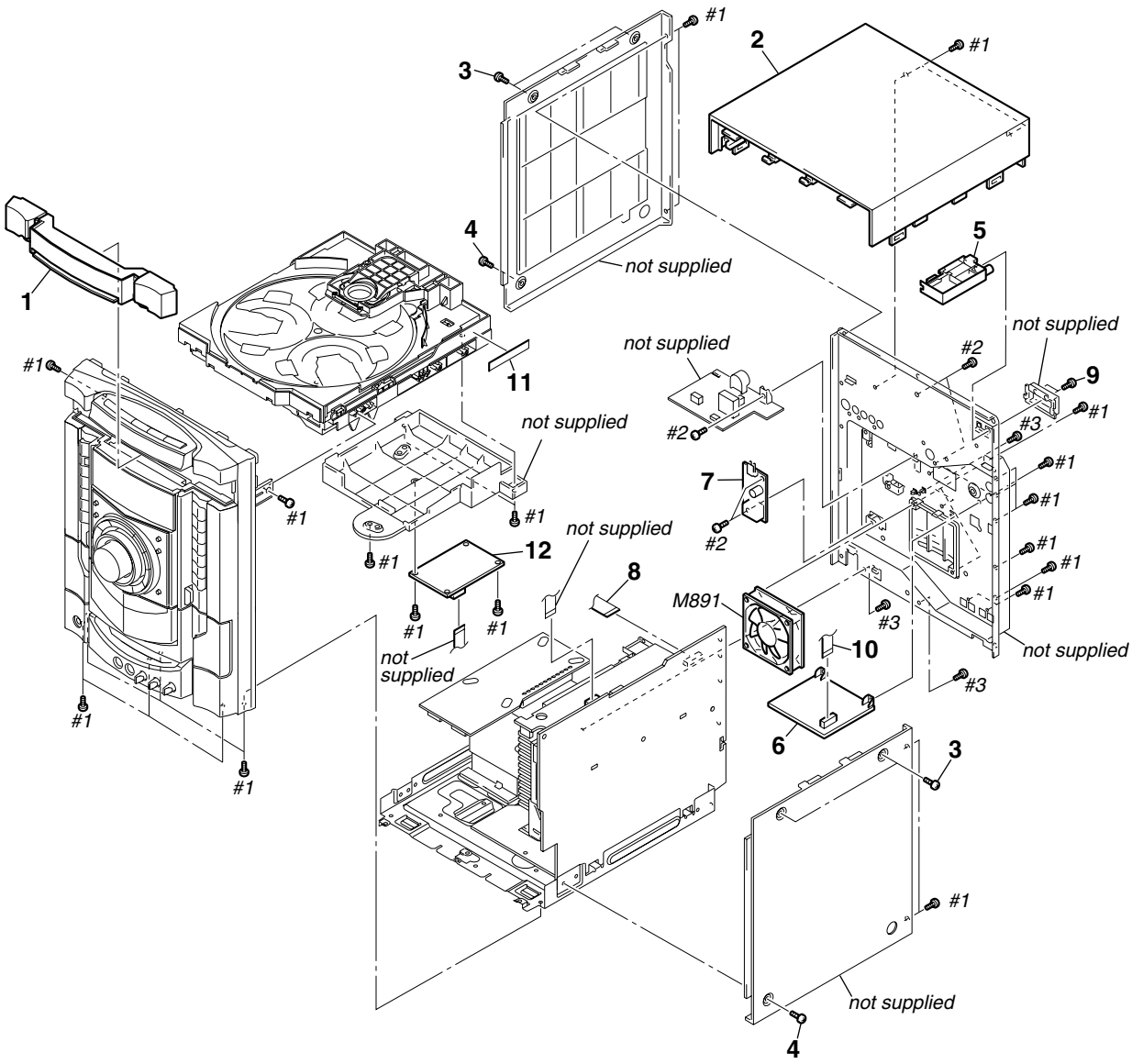
SECTION 8
EXPLODED VIEWS

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

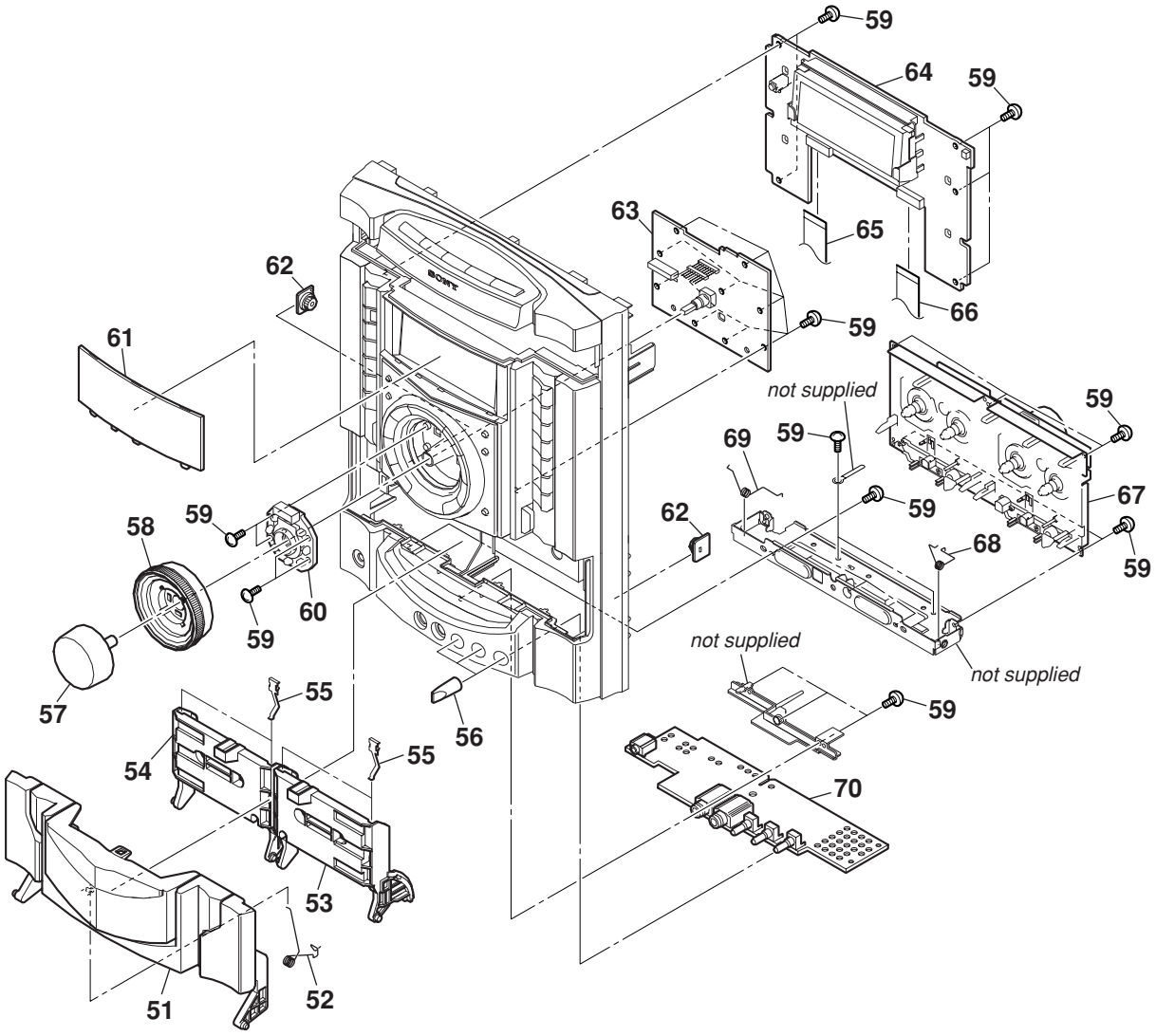
8-1. CASE (TOP), BACK PANEL SECTION



Ref. No.	Part No.	Description	Remarks
1	2-655-708-21	PANEL, LOADING (GNX880)	
1	2-655-708-31	PANEL, LOADING (GNX780)	
2	2-342-117-01	CASE (TOP)	
3	3-363-099-32	SCREW (CASE 3 TP2)	
4	3-363-099-02	SCREW (CASE 3 TP2)	
5	1-693-702-21	TUNER (FM/AM) (TM10SE)	
6	A-1156-257-A	EFFECTOR BOARD, COMPLETE	
⚠7	1-468-737-51	POWER SWITCHING	
8	1-775-280-11	WIRE (FLAT TYPE) (31 CORE)	

Ref. No.	Part No.	Description	Remarks
9	3-077-331-21	+BV3 (3-CR)	
10	1-823-718-11	WIRE (FLAT TYPE) (17 CORE) (100mm)	
11	3-378-109-12	CUSHION, SARANET	
12	A-1156-284-A	CDG BOARD, COMPLETE	
M891	1-787-400-11	D.C. FAN	
#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	
#2	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
#3	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	

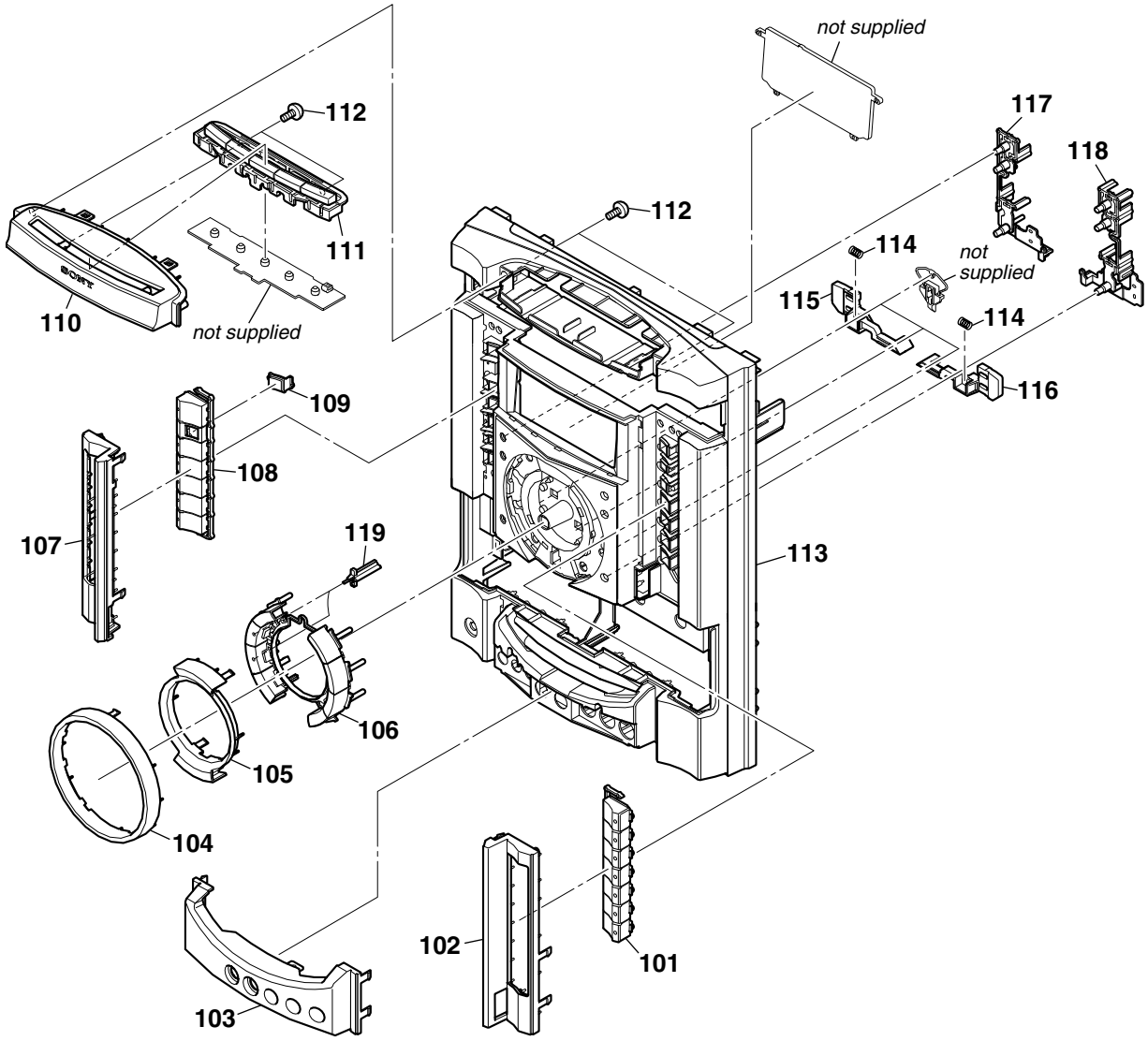
8-2. FRONT PANEL SECTION-1



Ref. No.	Part No.	Description	Remarks
51	2-655-724-01	LID (TC)	
52	2-655-732-01	SPRING (LID)	
53	4-252-579-11	HOLDER TC-R	
54	4-252-578-11	HOLDER TC-L	
55	4-959-229-11	DETENT, CASSETTE	
56	4-224-578-31	KNOB (MIC)	
57	4-252-575-01	KNOB VOL	
58	X-2103-230-1	KNOB JOG ASSY	
59	3-087-053-01	+BVTP2.6 (3CR)	
60	A-1156-244-A	JOG BOARD, COMPLETE	

Ref. No.	Part No.	Description	Remarks
61	2-655-717-01	WINDOW (FL)	
62	4-224-104-11	DAMPER	
63	A-1156-227-A	FUNCTION BOARD, COMPLETE	
64	A-1156-224-A	PANEL BOARD, COMPLETE	
65	1-828-990-11	WIRE (FLAT TYPE) (17 CORE) (80mm)	
66	1-828-991-11	WIRE (FLAT TYPE) (17 CORE) (100mm)	
67	1-417-656-11	MECHA DECK (CWN42FF601)	
68	2-655-734-01	SPRING (R)	
69	2-655-733-01	SPRING (L)	
70	A-1156-233-A	MIC BOARD, COMPLETE	

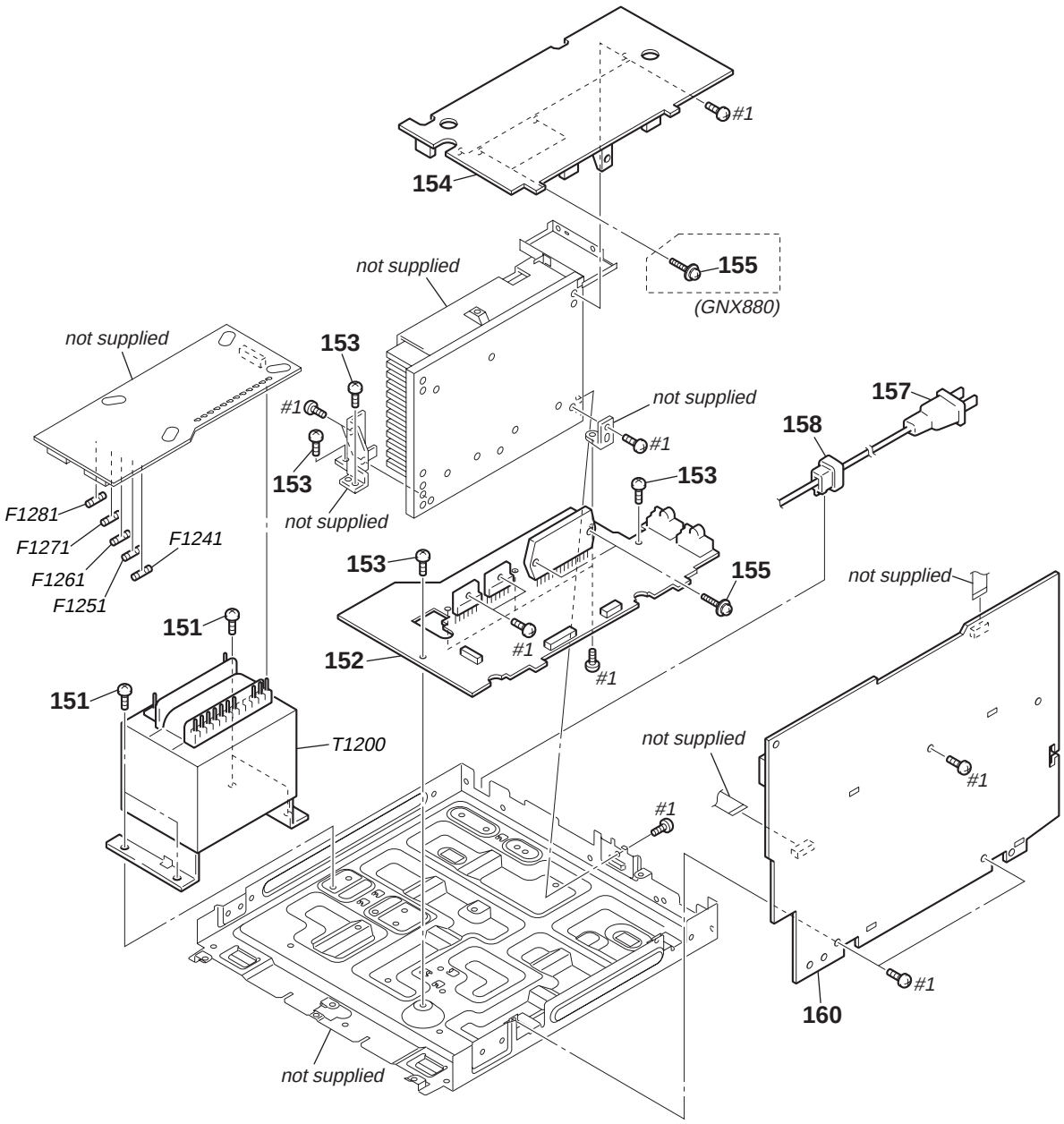
8-3. FRONT PANEL SECTION-2



Ref. No.	Part No.	Description	Remarks
101	2-655-711-01	BUTTON (PLAY)	
102	2-655-713-01	ESCUTCHEON (R)	
103	2-655-730-01	ESCUTCHEON (MIC)	
104	2-655-718-01	RING (VOL)	
105	2-655-722-01	BASE (VOL)	
106	2-655-723-01	BUTTON (EQ) (GNX880)	
106	2-655-723-11	BUTTON (EQ) (GNX780)	
107	2-655-712-01	ESCUTCHEON (L)	
108	2-655-710-01	BUTTON (POWER)	
109	2-655-716-01	INDICATOR (REMOTE)	

Ref. No.	Part No.	Description	Remarks
110	2-655-707-01	ESCUTCHEON (CD)	
111	2-655-709-01	BUTTON (DISC)	
112	3-087-053-01	+BVTP2.6 (3CR)	
113	2-655-705-11	PANEL, FRONT	
114	4-244-092-01	SPRING (EJECT)	
115	2-655-728-01	BUTTON (EJECT A)	
116	2-655-729-01	BUTTON (EJECT B)	
117	2-655-715-01	BUTTON (DISPLAY)	
118	2-655-714-01	BUTTON (MODE)	
119	2-655-731-01	INDICATOR (EQ)	

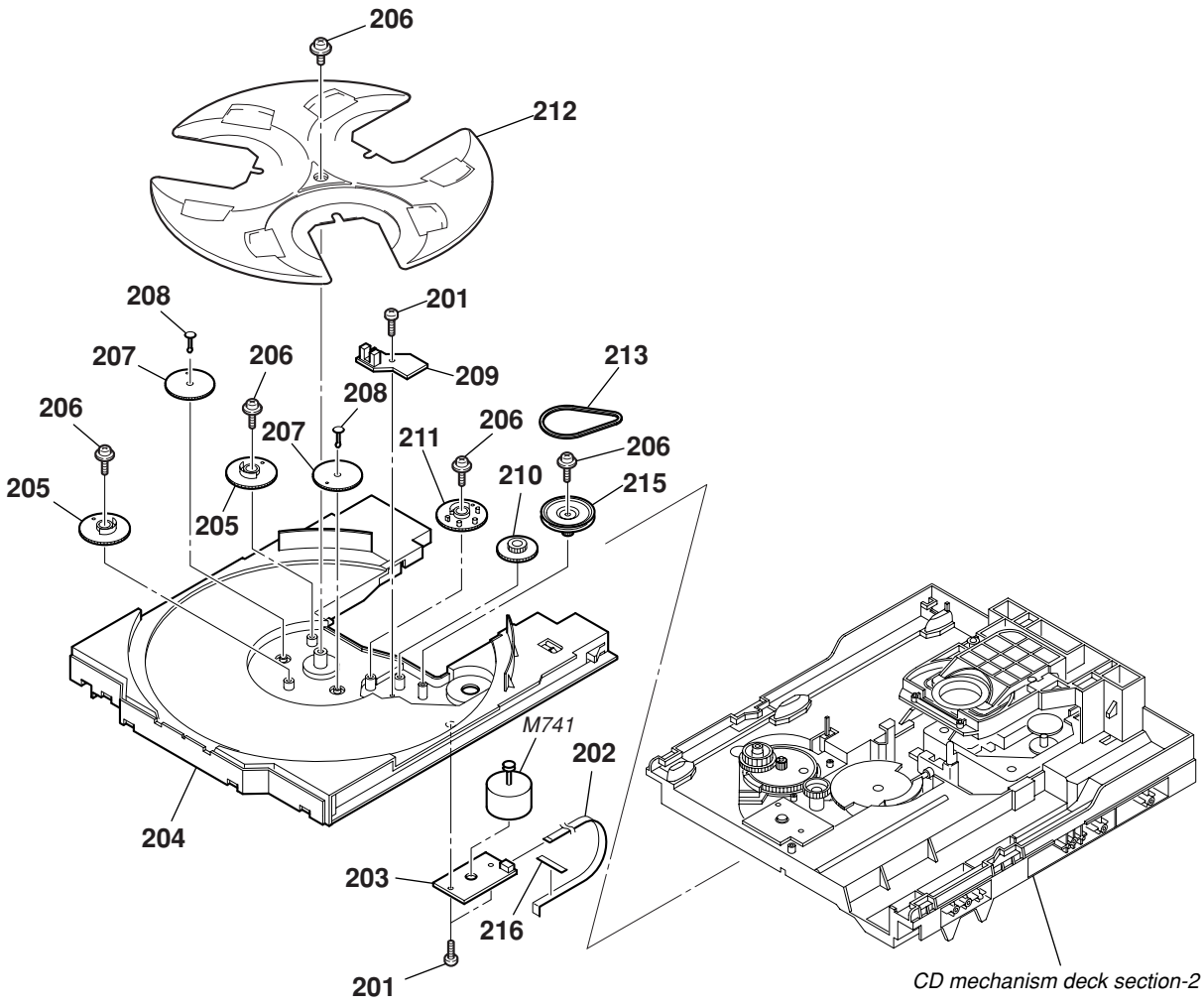
8-4. CHASSIS SECTION



Ref. No.	Part No.	Description	Remarks
151	4-900-386-01	SCREW	
152	A-1174-309-A	PA BOARD, COMPLETE (GNX780)	
152	A-1181-956-A	PA BOARD, COMPLETE (GNX880)	
153	3-077-331-21	+BV3 (3-CR)	
154	A-1156-249-A	SURROUND BOARD, COMPLETE (GNX880)	
155	3-905-609-31	SCREW (TRANSISTOR)	
⚠157	1-829-627-31	POWER-SUPPLY CORD	
158	3-703-571-11	BUSHING (S) (4516), CORD	
160	A-1156-276-A	MAIN BOARD, COMPLETE (GNX880)	
160	A-1174-064-A	MAIN BOARD, COMPLETE (GNX780)	

Ref. No.	Part No.	Description	Remarks
⚠F1241	1-533-949-33	FUSE, CYLINDRICAL (TIME LUG) (T8AL/250V)	
⚠F1251	1-533-949-33	FUSE, CYLINDRICAL (TIME LUG) (T8AL/250V)	
⚠F1261	1-533-949-33	FUSE, CYLINDRICAL (TIME LUG) (T8AL/250V)	
⚠F1271	1-533-949-33	FUSE, CYLINDRICAL (TIME LUG) (T8AL/250V)	
⚠F1281	1-532-465-33	FUSE (T3.15AL/250V)	
⚠T1200	1-443-584-11	POWER TRANSFORMER (GNX880)	
⚠T1200	1-443-973-11	POWER TRANSFORMER (GNX780)	
#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	

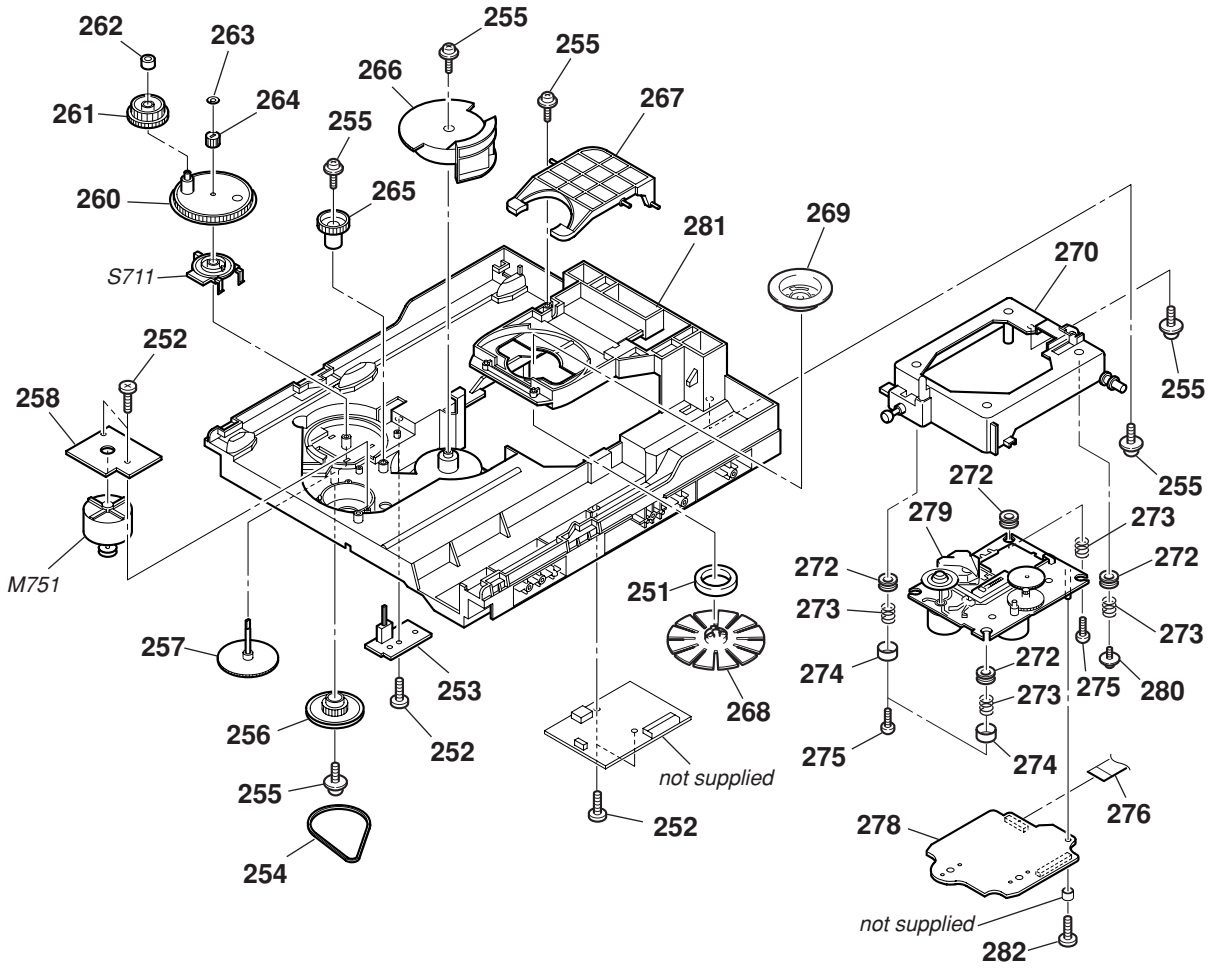
8-5. CD MECHANISM DECK SECTION-1 (CDM74KF-F1BD84)



Ref. No.	Part No.	Description	Remarks
201	4-218-253-32	SCREW (M2.6), +BTTP	
202	1-776-182-11	WIRE (FLAT TYPE) (5 CORE)	
203	1-687-134-12	MOTOR (TB) BOARD	
204	4-243-815-01	TABLE (LOADING)	
205	4-245-571-02	GEAR (STOPPER)	
206	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING	
207	4-245-570-01	GEAR (JOINT)	
208	4-245-572-01	BUSHING (GEAR)	

Ref. No.	Part No.	Description	Remarks
209	1-687-132-12	SENSOR BOARD	
210	4-243-820-01	GEAR (TABLE)	
211	4-243-819-01	GEAR (GENEVA)	
212	4-243-816-01	TRAY	
213	4-243-823-01	BELT (TABLE)	
215	4-243-821-01	PULLEY (TABLE)	
216	3-231-598-01	SHEET (BA)	
M741	A-1108-965-A	MOTOR ASSY, TABLE (TABLE)	

8-6. CD MECHANISM DECK SECTION-2 (CDM74KF-F1BD84)



Ref. No.	Part No.	Description	Remarks
251	1-471-035-11	MAGNET ASSY	
252	4-218-253-52	SCREW (M2.6), +BTTP	
253	1-687-669-12	SW BOARD	
254	4-244-034-01	BELT (LOADING)	
255	4-218-252-52	SCREW (+PTPWH M2.6), FLOATING	
256	4-225-844-01	GEAR (LOADING A)	
257	4-224-613-01	GEAR (SHAFT)	
258	1-687-133-12	MOTOR (LD) BOARD	
260	4-244-108-01	GEAR, SWING	
261	4-224-609-01	GEAR (LOADING C)	
262	4-224-608-01	COLLAR, SWING	
263	3-016-533-11	WASHER (FR), STOPPER	
264	4-224-611-01	GEAR (LOADING B)	
265	4-224-606-01	GEAR (RV)	
266	4-243-818-01	GEAR (U/D)	
267	4-243-822-02	LEVER (LIFTER)	

Ref. No.	Part No.	Description	Remarks
268	X-4955-774-2	PULLEY (SM) ASSY, CHUCKING	
269	4-221-688-01	PULLEY (B), CHUCKING	
270	X-2055-190-1	HOLDER (213) ASSY	
272	4-227-549-11	INSULATOR	
273	4-227-045-11	SPRING (INSULATOR), COIL	
274	4-231-151-01	STOPPER (BU)	
275	4-218-253-32	SCREW (M2.6), +BTTP	
276	1-827-992-11	WIRE (FLAT TYPE) (16 CORE)	
278	A-1084-901-A	BD84 BOARD, COMPLETE	
⚠279	8-820-244-01	OPTICAL PICK-UP KSM-215DCP/C2NP	
280	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING	
281	4-243-817-22	CHASSIS	
282	3-087-053-01	+BVTP2.6 (3CR)	
M751	A-4737-553-A	MOTOR ASSY, LOADING	
S711	1-477-680-12	ENCODER, ROTARY	

BD84

SECTION 9
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:
  uF: 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 ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

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

Ref. No.	Part No.	Description			Remarks
	A-1084-901-A	BD84 BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C10	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C11	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C14	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C15	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C16	1-115-156-11	CERAMIC CHIP	1uF		10V
C17	1-126-246-11	ELECT CHIP	220uF	20%	4V
C18	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C111	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C112	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C113	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C114	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C115	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C116	1-128-995-21	ELECT CHIP	100uF	20%	10V
C122	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C123	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C124	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C125	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C131	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C132	1-117-863-11	CERAMIC CHIP	0.47uF	10%	6.3V
C133	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C134	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C141	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C142	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C143	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C151	1-128-995-21	ELECT CHIP	100uF	20%	10V
C161	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C162	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C163	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C171	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C172	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C174	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C181	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C182	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C183	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C184	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C185	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C186	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C194	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C195	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C196	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C201	1-128-995-21	ELECT CHIP	100uF	20%	10V
C203	1-128-995-21	ELECT CHIP	100uF	20%	10V
C209	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C210	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C211	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C212	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C213	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C251	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C252	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C255	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C257	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C258	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C259	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C260	1-128-394-11	ELECT CHIP	220uF	20%	10V
C302	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C303	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C305	1-126-246-11	ELECT CHIP	220uF	20%	4V
C306	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C307	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C308	1-126-208-21	ELECT CHIP	47uF	20%	4V
C309	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C310	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C311	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C312	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C313	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C314	1-126-208-21	ELECT CHIP	47uF	20%	4V
C315	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C316	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C317	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C318	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C320	1-216-864-11	SHORT CHIP	0		
		< CONNECTOR >			
CN101	1-770-425-51	CONNECTOR, FFC/FPC 16P			
CN201	1-784-879-21	CONNECTOR, FFC (LIF (NON-ZIF)) 31P			
		< FERRITE BEAD >			
FB301	1-500-445-21	FERRITE, EMI (SMD) (2012)			

Ref. No.	Part No.	Description			Remarks
		< IC >			
IC101	8-752-425-12	IC CXD3059AR			
IC251	6-705-808-01	IC BA5947FM-E2			
IC301	6-705-365-01	IC TC94A34FG-002			
IC303	6-705-807-01	IC BH15FB1WG			
		< TRANSISTOR >			
Q10	6-551-120-01	TRANSISTOR 2SA2119K			
		< RESISTOR >			
R10	1-216-791-11	METAL CHIP	3.3	5%	1/10W
R11	1-216-864-11	SHORT CHIP	0		
R12	1-216-845-11	METAL CHIP	100K	5%	1/10W
R13	1-218-446-11	METAL CHIP	1	5%	1/10W
R111	1-216-821-11	METAL CHIP	1K	5%	1/10W
R112	1-216-835-11	METAL CHIP	15K	5%	1/10W
R113	1-216-821-11	METAL CHIP	1K	5%	1/10W
R114	1-216-835-11	METAL CHIP	15K	5%	1/10W
R121	1-216-835-11	METAL CHIP	15K	5%	1/10W
R131	1-216-857-11	METAL CHIP	1M	5%	1/10W
R132	1-216-833-11	METAL CHIP	10K	5%	1/10W
R133	1-216-848-11	METAL CHIP	180K	5%	1/10W
R141	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R142	1-216-821-11	METAL CHIP	1K	5%	1/10W
R143	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R151	1-216-864-11	SHORT CHIP	0		
R161	1-216-809-11	METAL CHIP	100	5%	1/10W
R162	1-216-841-11	METAL CHIP	47K	5%	1/10W
R163	1-216-809-11	METAL CHIP	100	5%	1/10W
R165	1-216-864-11	SHORT CHIP	0		
R171	1-216-817-11	METAL CHIP	470	5%	1/10W
R172	1-216-857-11	METAL CHIP	1M	5%	1/10W
R173	1-216-295-91	SHORT CHIP	0		
R181	1-216-809-11	METAL CHIP	100	5%	1/10W
R182	1-216-809-11	METAL CHIP	100	5%	1/10W
R191	1-216-864-11	SHORT CHIP	0		
R201	1-500-445-21	FERRITE, EMI (SMD) (2012)			
R203	1-216-864-11	SHORT CHIP	0		
R204	1-500-445-21	FERRITE, EMI (SMD) (2012)			
R205	1-216-864-11	SHORT CHIP	0		
R251	1-216-833-11	METAL CHIP	10K	5%	1/10W
R252	1-216-837-11	METAL CHIP	22K	5%	1/10W
R253	1-216-833-11	METAL CHIP	10K	5%	1/10W
R301	1-216-845-11	METAL CHIP	100K	5%	1/10W
R302	1-216-833-11	METAL CHIP	10K	5%	1/10W
R303	1-216-845-11	METAL CHIP	100K	5%	1/10W
R305	1-216-845-11	METAL CHIP	100K	5%	1/10W
R306	1-216-864-11	SHORT CHIP	0		
R307	1-216-833-11	METAL CHIP	10K	5%	1/10W
R313	1-216-813-11	METAL CHIP	220	5%	1/10W
R351	1-216-809-11	METAL CHIP	100	5%	1/10W
R352	1-216-809-11	METAL CHIP	100	5%	1/10W
R353	1-216-809-11	METAL CHIP	100	5%	1/10W
R354	1-216-809-11	METAL CHIP	100	5%	1/10W
R401	1-216-809-11	METAL CHIP	100	5%	1/10W
R402	1-216-809-11	METAL CHIP	100	5%	1/10W
R403	1-216-809-11	METAL CHIP	100	5%	1/10W
R404	1-216-809-11	METAL CHIP	100	5%	1/10W
R405	1-216-809-11	METAL CHIP	100	5%	1/10W
R406	1-216-809-11	METAL CHIP	100	5%	1/10W
R407	1-216-809-11	METAL CHIP	100	5%	1/10W
R408	1-216-809-11	METAL CHIP	100	5%	1/10W
R409	1-216-809-11	METAL CHIP	100	5%	1/10W
R410	1-216-809-11	METAL CHIP	100	5%	1/10W
R411	1-216-809-11	METAL CHIP	100	5%	1/10W
R412	1-216-809-11	METAL CHIP	100	5%	1/10W
R419	1-216-809-11	METAL CHIP	100	5%	1/10W
R421	1-216-809-11	METAL CHIP	100	5%	1/10W
R422	1-216-809-11	METAL CHIP	100	5%	1/10W
R423	1-216-809-11	METAL CHIP	100	5%	1/10W
		< SWITCH >			
S101	1-771-853-11	SWITCH, DETECTION (LIMIT)			
		< VIBRATOR >			
X171	1-767-408-21	VIBRATOR, CRYSTAL (16.9344 MHz)			
**********					
	A-1156-284-A	CDG BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C1001	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1002	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1003	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1004	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1005	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1006	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1007	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1008	1-126-960-11	ELECT	1uF	20%	50V
C1010	1-104-658-91	ELECT	100uF	20%	10V
C1011	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1012	1-126-947-11	ELECT	47uF	20%	35V
C1013	1-104-658-91	ELECT	100uF	20%	10V
C1014	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1015	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1018	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C1019	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C1021	1-162-971-11	CERAMIC CHIP	0.001uF	10%	50V
C1022	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C1023	1-126-960-11	ELECT	1uF	20%	50V
C1024	1-104-658-91	ELECT	100uF	20%	10V
C1025	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1026	1-104-655-91	ELECT	470uF	20%	6.3V
C1027	1-162-957-11	CERAMIC CHIP	220PF	5%	50V
C1028	1-104-658-91	ELECT	100uF	20%	10V
C1029	1-165-647-91	CERAMIC CHIP	0.47uF	10%	6.3V
C1030	1-126-965-91	ELECT	22uF	20%	50V
C1036	1-162-957-11	CERAMIC CHIP	220PF	5%	50V
C1037	1-162-957-11	CERAMIC CHIP	220PF	5%	50V
C1038	1-162-957-11	CERAMIC CHIP	220PF	5%	50V
C1039	1-162-957-11	CERAMIC CHIP	220PF	5%	50V
		< CONNECTOR >			
* CN1001	1-569-930-11	SOCKET, CONNECTOR 13P			

CDG **CD-SW** **DRIVER**

Ref. No.	Part No.	Description			Remarks
CN1003	1-785-314-11	PIN, CONNECTOR (STRAIGHT) 2P			
		< DIODE >			
D1003	6-501-193-01	DIODE 1SS355WTE-17			
D1004	6-501-193-01	DIODE 1SS355WTE-17			
		< FERRITE BEAD >			
FB1001	1-216-864-11	SHORT CHIP 0			
		< IC >			
IC1001	6-707-420-01	IC TC9411AFG (BS, K)			
IC1002	6-704-474-01	IC MSM514400E-60TS-K			
IC1003	6-703-547-01	IC TA7805LS			
IC1005	8-759-584-98	IC SN74AHCT04NSR			
IC1006	6-703-378-01	IC NJM2575F1-TE2			
		< JACK >			
J1001	1-794-970-11	JACK, PIN 1P (VIDEO OUT)			
		< COIL >			
L1001	1-216-296-11	SHORT CHIP 0			
L1002	1-216-296-11	SHORT CHIP 0			
		< TRANSISTOR >			
Q1001	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q1002	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q1004	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q1005	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q1006	8-729-027-23	TRANSISTOR DTA114EKA-T146			
Q1007	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q1009	8-729-027-23	TRANSISTOR DTA114EKA-T146			
Q1010	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q1008	8-729-140-04	TRANSISTOR 2SB1116A-L			
		< RESISTOR >			
R1003	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1004	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1005	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1006	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1011	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1012	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1013	1-216-820-11	METAL CHIP	820	5%	1/10W
R1015	1-216-864-11	SHORT CHIP	0		
R1016	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1017	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1018	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1019	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1020	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1021	1-216-813-11	METAL CHIP	220	5%	1/10W
R1022	1-216-813-11	METAL CHIP	220	5%	1/10W
R1023	1-216-813-11	METAL CHIP	220	5%	1/10W
R1029	1-216-809-11	METAL CHIP	100	5%	1/10W
R1030	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1031	1-218-285-11	METAL CHIP	75	5%	1/10W
R1032	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1033	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1034	1-216-829-11	METAL CHIP	4.7K	5%	1/10W

Ref. No.	Part No.	Description			Remarks
		< VIBRATOR >			
X1002	1-795-153-11	VIBRATOR, CRYSTAL (14.31818 MHz)			
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		CD-SW BOARD			
		**********			
		< RESISTOR >			
R1166	1-216-817-11	METAL CHIP	470	5%	1/10W
R1167	1-216-819-11	METAL CHIP	680	5%	1/10W
R1168	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1169	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R1170	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
		< SWITCH >			
S1166	1-762-875-21	SWITCH, KEYBOARD (⏏ OPEN/CLOSE)			
S1167	1-762-875-21	SWITCH, KEYBOARD (EX-CHANGE/DISC SKIP)			
S1168	1-762-875-21	SWITCH, KEYBOARD (DISC 3)			
S1169	1-762-875-21	SWITCH, KEYBOARD (DISC 2)			
S1170	1-762-875-21	SWITCH, KEYBOARD (DISC 1)			
**********					
		DRIVER BOARD			
		**********			
		< CAPACITOR >			
C715	1-126-933-11	ELECT	100uF	20%	16V
C731	1-126-964-11	ELECT	10uF	20%	50V
C735	1-164-159-11	CERAMIC	0.1uF		50V
C736	1-164-159-11	CERAMIC	0.1uF		50V
C737	1-164-159-11	CERAMIC	0.1uF		50V
C741	1-162-306-11	CERAMIC	0.01uF	20%	16V
C751	1-162-306-11	CERAMIC	0.01uF	20%	16V
C752	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
CN701	1-784-735-11	CONNECTOR, FFC 13P			
CN702	1-784-766-11	CONNECTOR, FFC 5P			
* CN703	1-564-720-11	PIN, CONNECTOR (SMALL TYPE) 4P			
CN704	1-785-328-11	PIN, CONNECTOR (LIGHT ANGRE) 2P			
		< DIODE >			
D701	8-719-947-16	DIODE MTZJ-T-72-5.1A			
D711	8-719-983-66	DIODE MTZJ-T-72-3.6B			
		< IC >			
IC701	8-759-598-69	IC BA6956AN			
IC712	8-759-598-69	IC BA6956AN			
		< TRANSISTOR >			
Q731	8-729-029-66	TRANSISTOR DTC114ESA			
		< RESISTOR >			
R701	1-249-413-11	CARBON	470	5%	1/4W
R702	1-247-807-31	CARBON	100	5%	1/4W
R711	1-247-831-91	CARBON	1K	5%	1/4W
R712	1-247-847-91	CARBON	4.7K	5%	1/4W
R713	1-247-863-91	CARBON	22K	5%	1/4W

Ref. No.	Part No.	Description			Remarks
R721	1-247-847-91	CARBON	4.7K	5%	1/4W
R722	1-247-847-91	CARBON	4.7K	5%	1/4W
R723	1-247-847-91	CARBON	4.7K	5%	1/4W
R731	1-247-807-31	CARBON	100	5%	1/4W
R732	1-249-429-11	CARBON	10K	5%	1/4W
R733	1-247-831-91	CARBON	1K	5%	1/4W
R734	1-249-430-11	CARBON	12K	5%	1/4W
R736	1-249-412-11	CARBON	390	5%	1/4W
R751	1-247-847-91	CARBON	4.7K	5%	1/4W
**********					
	A-1156-257-A	EFFECTOR BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C1506	1-136-495-11	FILM	0.068uF	5%	50V
C1507	1-136-495-11	FILM	0.068uF	5%	50V
C1509	1-162-905-11	CERAMIC CHIP	1PF	0.25PF	50V
C1512	1-107-714-11	ELECT	10uF	20%	50V
C1513	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1515	1-126-947-11	ELECT	47uF	20%	35V
C1516	1-136-495-11	FILM	0.068uF	5%	50V
C1517	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C1519	1-126-964-11	ELECT	10uF	20%	50V
C1520	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C1521	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C1522	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C1523	1-136-495-11	FILM	0.068uF	5%	50V
C1524	1-126-957-11	ELECT	0.22uF	20%	50V
C1525	1-126-957-11	ELECT	0.22uF	20%	50V
C1526	1-136-497-81	FILM	0.1uF	5%	50V
C1529	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C1530	1-136-159-00	FILM	0.033uF	5%	50V
C1542	1-130-479-00	MYLAR	0.0047uF	5%	50V
C1544	1-130-479-00	MYLAR	0.0047uF	5%	50V
C1545	1-126-964-11	ELECT	10uF	20%	50V
C1546	1-126-964-11	ELECT	10uF	20%	50V
C1548	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1552	1-126-964-11	ELECT	10uF	20%	50V
C1554	1-126-964-11	ELECT	10uF	20%	50V
C1555	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1559	1-126-964-11	ELECT	10uF	20%	50V
C1560	1-126-964-11	ELECT	10uF	20%	50V
C1561	1-126-964-11	ELECT	10uF	20%	50V
C1562	1-126-964-11	ELECT	10uF	20%	50V
C1568	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1569	1-126-964-11	ELECT	10uF	20%	50V
C1570	1-126-964-11	ELECT	10uF	20%	50V
C1571	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1572	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1576	1-126-964-11	ELECT	10uF	20%	50V
C1578	1-126-964-11	ELECT	10uF	20%	50V
C1584	1-104-658-91	ELECT	100uF	20%	10V
C1601	1-126-964-11	ELECT	10uF	20%	50V
C1602	1-126-964-11	ELECT	10uF	20%	50V
		< CONNECTOR >			
CN1502	1-779-285-11	CONNECTOR, FFC (LIF (NON-ZIF)) 17P			

Ref. No.	Part No.	Description			Remarks
		< DIODE >			
D1502	8-719-069-56	DIODE UDZSTE-176.2B			
		< IC >			
IC1500	8-759-710-97	IC NJM4565M-D			
IC1501	8-759-496-41	IC M65850FP-E1			
IC1503	6-709-217-01	IC TC74LVX4051FT			
IC1505	8-759-710-97	IC NJM4565M-D			
IC1506	6-709-218-01	IC TC74LVX4052FT			
		< COIL >			
L1500	1-414-183-41	INDUCTOR 10uH			
		< TRANSISTOR >			
Q1502	8-729-055-10	TRANSISTOR 2SK3378ENTL			
Q1506	8-729-055-10	TRANSISTOR 2SK3378ENTL			
Q1507	8-729-056-46	TRANSISTOR 2SC5053T100Q			
Q1508	8-729-055-10	TRANSISTOR 2SK3378ENTL			
Q1509	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q1510	8-729-027-43	TRANSISTOR DTC114EKA-T146			
		< RESISTOR >			
R1500	1-216-809-11	METAL CHIP	100	5%	1/10W
R1501	1-216-809-11	METAL CHIP	100	5%	1/10W
R1502	1-216-809-11	METAL CHIP	100	5%	1/10W
R1504	1-216-809-11	METAL CHIP	100	5%	1/10W
R1505	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1508	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1510	1-216-836-11	METAL CHIP	18K	5%	1/10W
R1511	1-216-836-11	METAL CHIP	18K	5%	1/10W
R1512	1-216-836-11	METAL CHIP	18K	5%	1/10W
R1514	1-216-836-11	METAL CHIP	18K	5%	1/10W
R1515	1-216-836-11	METAL CHIP	18K	5%	1/10W
R1516	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1517	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1519	1-216-864-11	SHORT CHIP	0		
R1520	1-216-864-11	SHORT CHIP	0		
R1522	1-216-864-11	SHORT CHIP	0		
R1525	1-216-809-11	METAL CHIP	100	5%	1/10W
R1526	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1527	1-216-809-11	METAL CHIP	100	5%	1/10W
R1528	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1529	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1530	1-216-815-11	METAL CHIP	330	5%	1/10W
R1531	1-216-817-11	METAL CHIP	470	5%	1/10W
R1532	1-216-820-11	METAL CHIP	820	5%	1/10W
R1533	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R1534	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R1535	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R1536	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R1537	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1538	1-216-838-11	METAL CHIP	27K	5%	1/10W
R1546	1-216-836-11	METAL CHIP	18K	5%	1/10W
R1547	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1549	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1550	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1557	1-216-845-11	METAL CHIP	100K	5%	1/10W

Ref. No.	Part No.	Description			Remarks
R1558	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1559	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1560	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1565	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1566	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1567	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1568	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1569	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1570	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1571	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1572	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1573	1-216-819-11	METAL CHIP	680	5%	1/10W
R1574	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1575	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1576	1-216-819-11	METAL CHIP	680	5%	1/10W
R1579	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1580	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1581	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1582	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1584	1-216-864-11	SHORT CHIP	0		
R1585	1-216-864-11	SHORT CHIP	0		
R1586	1-216-864-11	SHORT CHIP	0		
R1589	1-216-803-11	METAL CHIP	33	5%	1/10W
R1590	1-216-839-11	METAL CHIP	33K	5%	1/10W
R1591	1-216-839-11	METAL CHIP	33K	5%	1/10W
R1592	1-216-864-11	SHORT CHIP	0		
R1594	1-216-864-11	SHORT CHIP	0		
R1595	1-216-864-11	SHORT CHIP	0		
R1600	1-216-864-11	SHORT CHIP	0		
R1602	1-216-864-11	SHORT CHIP	0		
R1604	1-216-864-11	SHORT CHIP	0		
R1606	1-216-864-11	SHORT CHIP	0		

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A-1156-227-A FUNCTION BOARD, COMPLETE
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< CAPACITOR >

C907	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C965	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C966	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C969	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C970	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C971	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C976	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C984	1-162-953-11	CERAMIC CHIP	100PF	5%	50V

< CONNECTOR >

* CN901	1-569-934-11	SOCKET, CONNECTOR 17P	
CNS902	1-820-050-11	BOARD TO BOARD HEADER (8P)	

< DIODE >

D1017	6-500-725-01	DIODE	SLR-343VCT32 (DELAY)
D1020	6-500-725-01	DIODE	SLR-343VCT32 (FLANGER)

< JUMPER RESISTOR >

JR921	1-216-864-11	SHORT CHIP	0		
JR923	1-216-864-11	SHORT CHIP	0		

Ref. No.	Part No.	Description			Remarks

< TRANSISTOR >

Q921	8-729-027-50	TRANSISTOR DTC123JKA-T146			

< RESISTOR >

R958	1-216-819-11	METAL CHIP	680	5%	1/10W
R959	1-216-821-11	METAL CHIP	1K	5%	1/10W
R960	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R961	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R962	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R963	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R972	1-216-821-11	METAL CHIP	1K	5%	1/10W
R973	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1001	1-216-817-11	METAL CHIP	470	5%	1/10W
R1002	1-216-819-11	METAL CHIP	680	5%	1/10W
R1003	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1004	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R1005	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R1006	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1014	1-216-817-11	METAL CHIP	470	5%	1/10W
R1018	1-216-819-11	METAL CHIP	680	5%	1/10W
R1186	1-216-814-11	METAL CHIP	270	5%	1/10W

< SWITCH >

S901	1-762-875-21	SWITCH, KEYBOARD (MP3 BOOSTER)
S902	1-762-875-21	SWITCH, KEYBOARD (GROOVE)
S903	1-762-875-21	SWITCH, KEYBOARD (EQ BAND)
S904	1-762-875-21	SWITCH, KEYBOARD (DIRECTION MPX)
S905	1-762-875-21	SWITCH, KEYBOARD (REC PAUSE/START)
S906	1-762-875-21	SWITCH, KEYBOARD (CD SYNC)
S914	1-762-875-21	SWITCH, KEYBOARD (ENTER)
S915	1-762-875-21	SWITCH, KEYBOARD (SOUND FLASH)
S916	1-762-875-21	SWITCH, KEYBOARD (DELAY)
S917	1-762-875-21	SWITCH, KEYBOARD (FLANGER)
S918	1-762-875-21	SWITCH, KEYBOARD (SURROUND) (GNX780)
S918	1-762-875-21	SWITCH, KEYBOARD (SURROUND SPEAKER MODE) (GNX880)
S919	1-762-875-21	SWITCH, KEYBOARD (ILLUMINATION)
S920	1-762-875-21	SWITCH, KEYBOARD (AMP MENU)
S928	1-762-875-21	SWITCH, KEYBOARD (DISPLAY)
S970	1-418-725-51	ENCODER, ROTARY (12 TYPE) (MASTER VOLUME)

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A-1156-244-A JOG BOARD, COMPLETE
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< CAPACITOR >

C1150	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V

< CONNECTOR >

CNS903	1-562-573-31	SOCKET, CONNECTOR 8P

< DIODE >

D919	6-500-809-01	DIODE	SELU5223C-STP15 (VOL 1)
D920	6-500-809-01	DIODE	SELU5223C-STP15 (VOL 2)
D921	6-500-809-01	DIODE	SELU5223C-STP15 (VOL 3)

JOG MAIN

Ref. No.	Part No.	Description			Remarks
D926	6-500-809-01	DIODE SELU5223C-STP15 (VOL 8)			
		< JUMPER RESISTOR >			
JR1	1-216-864-11	SHORT CHIP	0		
JR2	1-216-864-11	SHORT CHIP	0		
JR3	1-216-864-11	SHORT CHIP	0		
JR4	1-216-864-11	SHORT CHIP	0		
JR5	1-216-864-11	SHORT CHIP	0		
JR922	1-216-864-11	SHORT CHIP	0		
JR1096	1-216-864-11	SHORT CHIP	0		
		< TRANSISTOR >			
Q911	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q912	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q913	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q915	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
		< RESISTOR >			
R1040	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1144	1-216-820-11	METAL CHIP	820	5%	1/10W
R1145	1-216-820-11	METAL CHIP	820	5%	1/10W
R1146	1-216-820-11	METAL CHIP	820	5%	1/10W
R1149	1-216-820-11	METAL CHIP	820	5%	1/10W
R1150	1-216-820-11	METAL CHIP	820	5%	1/10W
R1151	1-216-820-11	METAL CHIP	820	5%	1/10W
R1153	1-216-820-11	METAL CHIP	820	5%	1/10W
R1154	1-216-820-11	METAL CHIP	820	5%	1/10W
R1155	1-216-820-11	METAL CHIP	820	5%	1/10W
R1157	1-216-820-11	METAL CHIP	820	5%	1/10W
R1158	1-216-820-11	METAL CHIP	820	5%	1/10W
R1159	1-216-820-11	METAL CHIP	820	5%	1/10W
R1161	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1162	1-216-809-11	METAL CHIP	100	5%	1/10W
R1163	1-216-809-11	METAL CHIP	100	5%	1/10W
R1164	1-216-809-11	METAL CHIP	100	5%	1/10W
R1165	1-216-809-11	METAL CHIP	100	5%	1/10W
		< SWITCH >			
S1161	1-479-203-11	ENCODER (ROTARY) (OPERATION DIAL)			
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	A-1156-276-A	MAIN BOARD, COMPLETE (GNX880)			
	A-1174-064-A	MAIN BOARD, COMPLETE (GNX780)			
		**********			
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3			
		< CAPACITOR >			
C100	1-104-658-91	ELECT	100uF	20%	10V
C101	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C102	1-126-964-11	ELECT	10uF	20%	50V
C103	1-126-964-11	ELECT	10uF	20%	50V
C104	1-126-964-11	ELECT	10uF	20%	50V
C105	1-126-964-11	ELECT	10uF	20%	50V
C106	1-130-487-00	MYLAR	0.022uF	5%	50V
C107	1-130-487-00	MYLAR	0.022uF	5%	50V
C108	1-130-489-00	MYLAR	0.033uF	5%	50V
C109	1-126-960-11	ELECT	1uF	20%	50V

Ref. No.	Part No.	Description			Remarks
C110	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V (GNX780)
C110	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (GNX880)
C111	1-126-964-11	ELECT	10uF	20%	50V
C112	1-137-190-91	FILM	0.22uF	5%	50V (GNX880)
C112	1-136-170-00	FILM	0.27uF	5%	50V (GNX780)
C113	1-136-170-00	FILM	0.27uF	5%	50V
C115	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C116	1-126-176-11	ELECT	220uF	20%	10V
C130	1-126-964-11	ELECT	10uF	20%	50V
C131	1-126-959-11	ELECT	0.47uF	20%	50V
C140	1-130-493-00	MYLAR	0.068uF	5%	50V
C149	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C150	1-126-964-11	ELECT	10uF	20%	50V
C152	1-126-964-11	ELECT	10uF	20%	50V
C153	1-126-964-11	ELECT	10uF	20%	50V
C154	1-126-964-11	ELECT	10uF	20%	50V
C155	1-126-964-11	ELECT	10uF	20%	50V
C156	1-130-487-00	MYLAR	0.022uF	5%	50V
C157	1-130-487-00	MYLAR	0.022uF	5%	50V
C158	1-130-489-00	MYLAR	0.033uF	5%	50V
C159	1-126-960-11	ELECT	1uF	20%	50V
C160	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V (GNX780)
C160	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (GNX880)
C161	1-126-964-11	ELECT	10uF	20%	50V
C162	1-137-190-91	FILM	0.22uF	5%	50V (GNX880)
C162	1-136-170-00	FILM	0.27uF	5%	50V (GNX780)
C163	1-136-170-00	FILM	0.27uF	5%	50V
C180	1-126-963-11	ELECT	4.7uF	20%	50V
C181	1-126-963-11	ELECT	4.7uF	20%	50V
C202	1-126-964-11	ELECT	10uF	20%	50V (GNX880)
C203	1-162-960-11	CERAMIC CHIP	220PF	10%	50V (GNX880)
C204	1-126-923-91	ELECT	220uF	20%	10V (GNX880)
C205	1-164-156-11	CERAMIC CHIP	0.1uF		25V (GNX880)
C206	1-162-960-11	CERAMIC CHIP	220PF	10%	50V (GNX880)
C207	1-126-960-11	ELECT	1uF	20%	50V (GNX880)
C210	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C211	1-104-658-91	ELECT	100uF	20%	10V
C220	1-136-497-81	FILM	0.1uF	5%	50V (GNX880)
C221	1-136-497-81	FILM	0.1uF	5%	50V (GNX880)
C222	1-104-658-91	ELECT	100uF	20%	10V (GNX880)
C223	1-104-658-91	ELECT	100uF	20%	10V (GNX880)
C230	1-136-497-81	FILM	0.1uF	5%	50V (GNX880)

Ref. No.	Part No.	Description			Remarks
C223	1-104-658-91	ELECT	100uF	20%	10V (GNX880)
C230	1-136-497-81	FILM	0.1uF	5%	50V (GNX880)
C231	1-136-497-81	FILM	0.1uF	5%	50V (GNX880)
C250	1-126-964-11	ELECT	10uF	20%	50V
C251	1-126-964-11	ELECT	10uF	20%	50V
C260	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C261	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C262	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C263	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C264	1-165-647-91	CERAMIC CHIP	0.47uF	10%	6.3V
C280	1-126-964-11	ELECT	10uF	20%	50V
C281	1-126-964-11	ELECT	10uF	20%	50V
C301	1-136-967-11	FILM	0.012uF	5%	100V
C303	1-136-497-81	FILM	0.1uF	5%	50V
C304	1-126-964-11	ELECT	10uF	20%	50V
C305	1-126-960-11	ELECT	1uF	20%	50V
C306	1-126-961-11	ELECT	2.2uF	20%	50V
C307	1-126-964-11	ELECT	10uF	20%	50V
C308	1-126-925-91	ELECT	470uF	20%	10V
C309	1-126-947-11	ELECT	47uF	20%	35V
C310	1-126-964-11	ELECT	10uF	20%	50V
C311	1-126-964-11	ELECT	10uF	20%	50V
C312	1-126-964-11	ELECT	10uF	20%	50V
C314	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C340	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C341	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C351	1-136-967-11	FILM	0.012uF	5%	100V
C353	1-136-497-81	FILM	0.1uF	5%	50V
C354	1-126-157-11	ELECT	10uF	20%	16V
C355	1-126-960-11	ELECT	1uF	20%	50V
C356	1-126-961-11	ELECT	2.2uF	20%	50V
C359	1-126-947-11	ELECT	47uF	20%	35V
C361	1-126-964-11	ELECT	10uF	20%	50V
C364	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C370	1-137-150-11	FILM	0.01uF	5%	100V
C371	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C372	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C373	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C374	1-126-947-11	ELECT	47uF	20%	35V
C375	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C376	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C377	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C378	1-162-928-11	CERAMIC CHIP	120PF	5%	50V
C379	1-130-481-00	MYLAR	0.0068uF	5%	50V
C380	1-162-928-11	CERAMIC CHIP	120PF	5%	50V
C381	1-164-670-11	CERAMIC CHIP	1200PF	5%	16V
C382	1-164-670-11	CERAMIC CHIP	1200PF	5%	16V
C383	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C384	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C385	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C386	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C401	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C405	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C410	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C411	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C412	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C416	1-104-656-11	ELECT	2200uF	20%	6.3V
C417	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C419	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C462	1-104-658-91	ELECT	100uF	20%	10V
C464	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C497	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C498	1-126-964-11	ELECT	10uF	20%	50V
C499	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C501	1-126-964-11	ELECT	10uF	20%	50V
C502	1-136-497-81	FILM	0.1uF	5%	50V
C503	1-136-497-81	FILM	0.1uF	5%	50V
C520	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C521	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C522	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C523	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C524	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C525	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C534	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C535	1-126-926-11	ELECT	1000uF	20%	10V
C537	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C538	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C539	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C540	1-126-960-11	ELECT	1uF	20%	50V
C541	1-126-960-11	ELECT	1uF	20%	50V
C544	1-126-960-11	ELECT	1uF	20%	50V
C545	1-126-960-11	ELECT	1uF	20%	50V
C546	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C547	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C550	1-126-933-11	ELECT	100uF	20%	16V
C551	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C552	1-126-961-11	ELECT	2.2uF	20%	50V
C553	1-126-942-61	ELECT	1000uF	20%	25V
C560	1-130-483-00	MYLAR	0.01uF	5%	50V
C561	1-130-483-00	MYLAR	0.01uF	5%	50V
C562	1-126-933-11	ELECT	100uF	20%	16V
C563	1-126-925-91	ELECT	470uF	20%	10V
C564	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C565	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C566	1-128-548-11	ELECT	4700uF	20%	25V
C567	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C568	1-126-916-11	ELECT	1000uF	20%	6.3V
C580	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C581	1-164-156-11	CERAMIC CHIP	0.1uF		25V
		< CONNECTOR >			
CN100	1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P			
CN102	1-820-049-11	CONNECTOR (SUBWOOFER) (SYSTEM CONTROL) (GNX880)			
CN105	1-691-765-11	PLUG (MICRO CONNECTOR) 3P (GNX880)			
CN402	1-785-336-11	PIN, CONNECTOR (LIGHT ANGLE) 10P			
CN501	1-573-845-11	CONNECTOR, BOARD TO BOARD 13P			
* CN502	1-774-876-21	CONNECTOR, BOARD TO BOARD 8P			
CN503	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P			
CN504	1-565-937-11	SOCKET, CONNECTOR 13P			
CN505	1-779-299-11	CONNECTOR, FFC (LIF (NON-ZIF)) 31P			
CN506	1-568-441-11	SOCKET, CONNECTOR 9P			

Ref. No.	Part No.	Description	Remarks
* CN507	1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P	
* CN508	1-569-934-11	SOCKET, CONNECTOR 17P	
CN509	1-569-928-11	SOCKET, CONNECTOR 11P	
* CN510	1-568-449-11	HOUSING, CONNECTOR (PC BOARD) 3P	
CN511	1-784-735-11	CONNECTOR, FFC 13P	
CN512	1-779-285-11	CONNECTOR, FFC (LIF (NON-ZIF)) 17P	
CN513	1-784-038-21	CONNECTOR, BOARD TO BOARD 9P (GNX880)	
CN560	1-785-314-11	PIN, CONNECTOR (STRAIGHT) 2P	
CN580	1-564-506-11	PLUG, CONNECTOR 3P	
		< DIODE >	
D101	6-501-193-01	DIODE 1SS355WTE-17	
D102	6-501-193-01	DIODE 1SS355WTE-17	
D103	6-501-193-01	DIODE 1SS355WTE-17	
D104	6-501-193-01	DIODE 1SS355WTE-17	
D325	8-719-083-60	DIODE UDZSTE-174.7B	
D340	6-501-193-01	DIODE 1SS355WTE-17	
D341	6-501-193-01	DIODE 1SS355WTE-17	
D342	6-501-193-01	DIODE 1SS355WTE-17	
D401	6-501-193-01	DIODE 1SS355WTE-17	
D402	6-501-193-01	DIODE 1SS355WTE-17	
D403	6-501-193-01	DIODE 1SS355WTE-17	
D404	6-501-193-01	DIODE 1SS355WTE-17	
D501	6-501-193-01	DIODE 1SS355WTE-17	
D502	6-501-193-01	DIODE 1SS355WTE-17	
D503	6-501-193-01	DIODE 1SS355WTE-17	
D504	6-501-193-01	DIODE 1SS355WTE-17	
D505	6-501-193-01	DIODE 1SS355WTE-17	
D550	6-501-193-01	DIODE 1SS355WTE-17	
D560	8-719-028-23	DIODE D3SBA20-4101	
D561	6-500-522-21	DIODE 10EDB40-TB3	
D562	6-500-522-21	DIODE 10EDB40-TB3	
D581	8-719-069-56	DIODE UDZSTE-176.2B	
D583	8-719-978-33	DIODE DTZ-TT11-6.8B	
D584	8-719-071-54	DIODE HZU2.0BTRF	
		< FERRITE BEAD >	
FB150	1-216-864-11	SHORT CHIP 0	
FB260	1-216-864-11	SHORT CHIP 0	
FB261	1-216-864-11	SHORT CHIP 0	
FB262	1-216-864-11	SHORT CHIP 0	
FB263	1-216-864-11	SHORT CHIP 0	
FB506	1-500-283-11	INDUCTOR, FERRITE BEAD	
FB507	1-500-283-11	INDUCTOR, FERRITE BEAD	
FB508	1-500-283-11	INDUCTOR, FERRITE BEAD	
FB509	1-500-283-11	INDUCTOR, FERRITE BEAD	
FB510	1-500-283-11	INDUCTOR, FERRITE BEAD	
FB512	1-500-283-11	INDUCTOR, FERRITE BEAD	
		< IC >	
IC101	6-703-650-11	IC M61529FP-D60G	
IC201	6-703-651-11	IC M61530FP-D60G (GNX880)	
IC210	6-600-465-11	IC TOTX147 (CD DIGITAL OUT OPTICAL)	
IC301	6-702-130-01	IC HA12237F	
IC401	6-806-610-01	IC M30622MEP-A75FPU0	
IC402	6-705-809-01	IC BD4929G-TR	
IC550	6-703-610-01	IC RT8H015C-T112-1	
IC560	8-759-394-36	IC BA09T	
IC561	8-759-394-36	IC BA09T	
IC562	6-702-771-01	IC TA78033LS	
		< JACK >	
J101	1-794-981-11	JACK, PIN 4P (AUDIO IN)	
J103	1-820-048-11	CONNECTOR (LIGHTING) (D-LIGHT SYNC)	
		< JUMPER RESISTOR >	
JR101	1-216-864-11	SHORT CHIP 0	
JR102	1-216-864-11	SHORT CHIP 0	
JR104	1-216-864-11	SHORT CHIP 0	
JR107	1-216-864-11	SHORT CHIP 0	
JR108	1-216-864-11	SHORT CHIP 0	
JR109	1-216-864-11	SHORT CHIP 0	
JR110	1-216-864-11	SHORT CHIP 0	
JR112	1-216-864-11	SHORT CHIP 0	
JR113	1-216-864-11	SHORT CHIP 0	
JR114	1-216-864-11	SHORT CHIP 0	
JR115	1-216-864-11	SHORT CHIP 0	
JR116	1-216-864-11	SHORT CHIP 0	
JR117	1-216-864-11	SHORT CHIP 0	
JR119	1-216-864-11	SHORT CHIP 0	
JR120	1-216-864-11	SHORT CHIP 0	
JR121	1-216-864-11	SHORT CHIP 0	
JR122	1-216-864-11	SHORT CHIP 0	
JR123	1-216-864-11	SHORT CHIP 0	
JR124	1-216-296-11	SHORT CHIP 0	
JR125	1-216-296-11	SHORT CHIP 0	
JR126	1-216-296-11	SHORT CHIP 0	
JR127	1-216-864-11	SHORT CHIP 0	
JR129	1-216-864-11	SHORT CHIP 0	
JR130	1-216-864-11	SHORT CHIP 0	
JR131	1-216-864-11	SHORT CHIP 0	
		< COIL >	
L101	1-420-872-52	COIL, AIR-CORE (GNX880)	
L102	1-420-872-52	COIL, AIR-CORE (GNX880)	
L302	1-414-189-31	INDUCTOR 100uH	
L370	1-410-780-11	INDUCTOR 27mH	
L371	1-410-780-11	INDUCTOR 27mH	
L372	1-414-189-31	INDUCTOR 100uH	
		< TRANSISTOR >	
Q101	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q151	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q180	8-729-023-22	TRANSISTOR 2SD2114K	
Q181	8-729-023-22	TRANSISTOR 2SD2114K	
Q250	8-729-023-22	TRANSISTOR 2SD2114K	
Q251	8-729-023-22	TRANSISTOR 2SD2114K	
Q325	8-729-056-46	TRANSISTOR 2SC5053T100Q	
Q340	8-729-903-46	TRANSISTOR 2SB1132-P	
Q341	8-729-903-46	TRANSISTOR 2SB1132-P	
Q342	8-729-903-46	TRANSISTOR 2SB1132-P	
Q343	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q344	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q345	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q370	8-729-141-75	TRANSISTOR 2SD596DV345	
Q371	6-551-287-01	TRANSISTOR 2SD2704K-T146	

Ref. No.	Part No.	Description			Remarks
Q372	6-551-287-01	TRANSISTOR	2SD2704K-T146		
Q373	6-551-287-01	TRANSISTOR	2SD2704K-T146		
Q374	6-551-287-01	TRANSISTOR	2SD2704K-T146		
Q375	6-551-287-01	TRANSISTOR	2SD2704K-T146		
Q376	6-551-287-01	TRANSISTOR	2SD2704K-T146		
Q377	8-729-216-22	TRANSISTOR	2SA1162-G		
Q378	6-550-185-01	TRANSISTOR	RT1P137P-TP-1		
Q379	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q380	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q381	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q382	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q383	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q501	8-729-901-00	TRANSISTOR	DTC124EK		
Q504	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q505	8-729-901-00	TRANSISTOR	DTC124EK		
Q540	8-729-027-31	TRANSISTOR	DTA124EKA-T146		
Q541	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q544	8-729-027-31	TRANSISTOR	DTA124EKA-T146		
Q545	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q560	6-550-185-01	TRANSISTOR	RT1P137P-TP-1		
Q561	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q580	8-729-230-49	TRANSISTOR	2SC2712-YG		
Q581	8-729-230-49	TRANSISTOR	2SC2712-YG		
Q582	8-729-230-49	TRANSISTOR	2SC2712-YG		
Q583	8-729-027-31	TRANSISTOR	DTA124EKA-T146		
Q584	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q585	8-729-026-68	TRANSISTOR	2SD2525 (TP)		
		< RESISTOR >			
R101	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R102	1-216-833-11	METAL CHIP	10K	5%	1/10W
R103	1-216-818-11	METAL CHIP	560	5%	1/10W
R104	1-216-821-11	METAL CHIP	1K	5%	1/10W
R105	1-216-841-11	METAL CHIP	47K	5%	1/10W
R106	1-216-833-11	METAL CHIP	10K	5%	1/10W (GNX880)
R106	1-216-839-11	METAL CHIP	33K	5%	1/10W (GNX780)
R107	1-216-813-11	METAL CHIP	220	5%	1/10W
⚠R108	1-217-637-00	FUSIBLE	1	5%	1/4W (GNX880)
R111	1-216-864-11	SHORT CHIP	0		
R112	1-216-864-11	SHORT CHIP	0		
R116	1-216-809-11	METAL CHIP	100	5%	1/10W
R119	1-216-809-11	METAL CHIP	100	5%	1/10W
R121	1-216-833-11	METAL CHIP	10K	5%	1/10W
R122	1-216-833-11	METAL CHIP	10K	5%	1/10W
R130	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R131	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R132	1-216-857-11	METAL CHIP	1M	5%	1/10W
R133	1-216-845-11	METAL CHIP	100K	5%	1/10W
R140	1-216-833-11	METAL CHIP	10K	5%	1/10W
R150	1-216-809-11	METAL CHIP	100	5%	1/10W
R151	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R152	1-216-833-11	METAL CHIP	10K	5%	1/10W
R153	1-216-818-11	METAL CHIP	560	5%	1/10W
R154	1-216-821-11	METAL CHIP	1K	5%	1/10W
R155	1-216-841-11	METAL CHIP	47K	5%	1/10W
R156	1-216-833-11	METAL CHIP	10K	5%	1/10W (GNX880)
R156	1-216-839-11	METAL CHIP	33K	5%	1/10W (GNX780)
R157	1-216-813-11	METAL CHIP	220	5%	1/10W
R166	1-216-809-11	METAL CHIP	100	5%	1/10W
R180	1-216-833-11	METAL CHIP	10K	5%	1/10W
R181	1-216-833-11	METAL CHIP	10K	5%	1/10W
R182	1-216-841-11	METAL CHIP	47K	5%	1/10W
R183	1-216-841-11	METAL CHIP	47K	5%	1/10W
R184	1-216-821-11	METAL CHIP	1K	5%	1/10W
R185	1-216-821-11	METAL CHIP	1K	5%	1/10W
R186	1-216-833-11	METAL CHIP	10K	5%	1/10W
R187	1-216-833-11	METAL CHIP	10K	5%	1/10W
R203	1-216-864-11	SHORT CHIP	0 (GNX880)		
R204	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNX880)
R205	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNX880)
R220	1-216-845-11	METAL CHIP	100K	5%	1/10W (GNX880)
R221	1-216-834-11	METAL CHIP	12K	5%	1/10W (GNX880)
R228	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W (GNX880)
R229	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W (GNX880)
R250	1-216-821-11	METAL CHIP	1K	5%	1/10W
R251	1-216-833-11	METAL CHIP	10K	5%	1/10W
R252	1-216-839-11	METAL CHIP	33K	5%	1/10W
R253	1-216-833-11	METAL CHIP	10K	5%	1/10W
R254	1-216-833-11	METAL CHIP	10K	5%	1/10W
R255	1-216-833-11	METAL CHIP	10K	5%	1/10W
R256	1-216-839-11	METAL CHIP	33K	5%	1/10W
R257	1-216-821-11	METAL CHIP	1K	5%	1/10W
R260	1-216-864-11	SHORT CHIP	0		
R261	1-216-864-11	SHORT CHIP	0		
R262	1-216-864-11	SHORT CHIP	0		
R263	1-216-864-11	SHORT CHIP	0		
R264	1-216-845-11	METAL CHIP	100K	5%	1/10W
R265	1-216-845-11	METAL CHIP	100K	5%	1/10W
R266	1-216-845-11	METAL CHIP	100K	5%	1/10W
R267	1-216-845-11	METAL CHIP	100K	5%	1/10W
R268	1-216-821-11	METAL CHIP	1K	5%	1/10W
R269	1-216-821-11	METAL CHIP	1K	5%	1/10W
R270	1-216-821-11	METAL CHIP	1K	5%	1/10W
R271	1-216-821-11	METAL CHIP	1K	5%	1/10W
R272	1-216-837-11	METAL CHIP	22K	5%	1/10W
R273	1-216-833-11	METAL CHIP	10K	5%	1/10W
R293	1-216-841-11	METAL CHIP	47K	5%	1/10W
R294	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R295	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R296	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R297	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R301	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R302	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R303	1-216-833-11	METAL CHIP	10K	5%	1/10W
R304	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R305	1-216-841-11	METAL CHIP	47K	5%	1/10W

Ref. No.	Part No.	Description			Remarks
R306	1-216-837-11	METAL CHIP	22K	5%	1/10W
R307	1-216-857-11	METAL CHIP	1M	5%	1/10W
R308	1-216-809-11	METAL CHIP	100	5%	1/10W
R309	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R310	1-216-809-11	METAL CHIP	100	5%	1/10W
R311	1-216-864-11	SHORT CHIP	0		
R312	1-216-809-11	METAL CHIP	100	5%	1/10W
R319	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R325	1-216-819-11	METAL CHIP	680	5%	1/10W
R336	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R337	1-216-833-11	METAL CHIP	10K	5%	1/10W
R339	1-216-837-11	METAL CHIP	22K	5%	1/10W
R340	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R341	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R342	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R343	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R344	1-216-819-11	METAL CHIP	680	5%	1/10W
R345	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R346	1-216-819-11	METAL CHIP	680	5%	1/10W
R347	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R348	1-216-819-11	METAL CHIP	680	5%	1/10W
R349	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R351	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R352	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R353	1-216-833-11	METAL CHIP	10K	5%	1/10W
R354	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R355	1-216-841-11	METAL CHIP	47K	5%	1/10W
R356	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R357	1-216-833-11	METAL CHIP	10K	5%	1/10W
R369	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R370	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R371	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R372	1-216-833-11	METAL CHIP	10K	5%	1/10W
R373	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R374	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R375	1-216-833-11	METAL CHIP	10K	5%	1/10W
R376	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R377	1-216-805-11	METAL CHIP	47	5%	1/10W
R378	1-216-833-11	METAL CHIP	10K	5%	1/10W
R379	1-216-797-11	METAL CHIP	10	5%	1/10W
R380	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R381	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R382	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R383	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R384	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R385	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R386	1-216-803-11	METAL CHIP	33	5%	1/10W
R387	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R388	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R389	1-216-837-11	METAL CHIP	22K	5%	1/10W
R390	1-216-833-11	METAL CHIP	10K	5%	1/10W
R391	1-216-833-11	METAL CHIP	10K	5%	1/10W
R392	1-216-833-11	METAL CHIP	10K	5%	1/10W
R393	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R394	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R395	1-216-841-11	METAL CHIP	47K	5%	1/10W
R396	1-216-833-11	METAL CHIP	10K	5%	1/10W
R397	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R399	1-216-833-11	METAL CHIP	10K	5%	1/10W
R400	1-216-809-11	METAL CHIP	100	5%	1/10W
R401	1-216-809-11	METAL CHIP	100	5%	1/10W
R402	1-216-809-11	METAL CHIP	100	5%	1/10W
R403	1-216-809-11	METAL CHIP	100	5%	1/10W
R404	1-216-809-11	METAL CHIP	100	5%	1/10W
R405	1-216-809-11	METAL CHIP	100	5%	1/10W
R406	1-216-809-11	METAL CHIP	100	5%	1/10W
R407	1-216-809-11	METAL CHIP	100	5%	1/10W
R409	1-216-833-11	METAL CHIP	10K	5%	1/10W
R411	1-216-851-11	METAL CHIP	330K	5%	1/10W
R412	1-216-845-11	METAL CHIP	100K	5%	1/10W
R413	1-216-864-11	SHORT CHIP	0		
R417	1-216-833-11	METAL CHIP	10K	5%	1/10W
R418	1-216-813-11	METAL CHIP	220	5%	1/10W
R419	1-216-809-11	METAL CHIP	100	5%	1/10W
R420	1-216-821-11	METAL CHIP	1K	5%	1/10W
R421	1-216-809-11	METAL CHIP	100	5%	1/10W
R422	1-216-809-11	METAL CHIP	100	5%	1/10W
R423	1-216-809-11	METAL CHIP	100	5%	1/10W
R424	1-216-809-11	METAL CHIP	100	5%	1/10W
R425	1-216-809-11	METAL CHIP	100	5%	1/10W
R426	1-216-809-11	METAL CHIP	100	5%	1/10W
R427	1-216-809-11	METAL CHIP	100	5%	1/10W
R428	1-216-809-11	METAL CHIP	100	5%	1/10W
R429	1-216-809-11	METAL CHIP	100	5%	1/10W
R430	1-216-809-11	METAL CHIP	100	5%	1/10W
R431	1-216-809-11	METAL CHIP	100	5%	1/10W
R432	1-216-809-11	METAL CHIP	100	5%	1/10W
R433	1-216-809-11	METAL CHIP	100	5%	1/10W
R434	1-216-809-11	METAL CHIP	100	5%	1/10W
R435	1-216-809-11	METAL CHIP	100	5%	1/10W
R436	1-216-809-11	METAL CHIP	100	5%	1/10W
R437	1-216-809-11	METAL CHIP	100	5%	1/10W
R438	1-216-809-11	METAL CHIP	100	5%	1/10W
R439	1-216-809-11	METAL CHIP	100	5%	1/10W
R440	1-216-809-11	METAL CHIP	100	5%	1/10W
R441	1-216-809-11	METAL CHIP	100	5%	1/10W
R442	1-216-809-11	METAL CHIP	100	5%	1/10W
R443	1-216-809-11	METAL CHIP	100	5%	1/10W
R444	1-216-809-11	METAL CHIP	100	5%	1/10W
R445	1-216-809-11	METAL CHIP	100	5%	1/10W
R446	1-216-809-11	METAL CHIP	100	5%	1/10W
R448	1-216-809-11	METAL CHIP	100	5%	1/10W
R449	1-216-809-11	METAL CHIP	100	5%	1/10W
R450	1-216-809-11	METAL CHIP	100	5%	1/10W
R452	1-216-809-11	METAL CHIP	100	5%	1/10W
R463	1-216-833-11	METAL CHIP	10K	5%	1/10W
R468	1-216-809-11	METAL CHIP	100	5%	1/10W
R469	1-216-809-11	METAL CHIP	100	5%	1/10W
R470	1-216-809-11	METAL CHIP	100	5%	1/10W
R472	1-216-809-11	METAL CHIP	100	5%	1/10W
R473	1-216-809-11	METAL CHIP	100	5%	1/10W
R474	1-216-809-11	METAL CHIP	100	5%	1/10W
R475	1-216-809-11	METAL CHIP	100	5%	1/10W
R476	1-216-809-11	METAL CHIP	100	5%	1/10W
R477	1-216-809-11	METAL CHIP	100	5%	1/10W
R478	1-216-809-11	METAL CHIP	100	5%	1/10W

Ref. No.	Part No.	Description			Remarks
R483	1-216-809-11	METAL CHIP	100	5%	1/10W
R484	1-216-809-11	METAL CHIP	100	5%	1/10W
R485	1-216-809-11	METAL CHIP	100	5%	1/10W
R486	1-216-809-11	METAL CHIP	100	5%	1/10W
R487	1-216-809-11	METAL CHIP	100	5%	1/10W
R488	1-216-809-11	METAL CHIP	100	5%	1/10W
R489	1-216-809-11	METAL CHIP	100	5%	1/10W
R490	1-216-809-11	METAL CHIP	100	5%	1/10W
R492	1-216-819-11	METAL CHIP	680	5%	1/10W (GNX780)
R492	1-216-827-11	METAL CHIP	3.3K	5%	1/10W (GNX880)
R493	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R495	1-216-809-11	METAL CHIP	100	5%	1/10W (GNX880)
R497	1-216-821-11	METAL CHIP	1K	5%	1/10W
R500	1-216-833-11	METAL CHIP	10K	5%	1/10W
R501	1-216-813-11	METAL CHIP	220	5%	1/10W
R502	1-216-821-11	METAL CHIP	1K	5%	1/10W
R503	1-216-864-11	SHORT CHIP	0		
R505	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R510	1-216-821-11	METAL CHIP	1K	5%	1/10W
R511	1-216-821-11	METAL CHIP	1K	5%	1/10W
R512	1-216-821-11	METAL CHIP	1K	5%	1/10W
R513	1-216-821-11	METAL CHIP	1K	5%	1/10W
R529	1-216-833-11	METAL CHIP	10K	5%	1/10W
R530	1-216-833-11	METAL CHIP	10K	5%	1/10W
R532	1-216-864-11	SHORT CHIP	0		
R538	1-216-833-11	METAL CHIP	10K	5%	1/10W
R540	1-216-843-11	METAL CHIP	68K	5%	1/10W
R541	1-216-835-11	METAL CHIP	15K	5%	1/10W
R542	1-216-853-11	METAL CHIP	470K	5%	1/10W
R546	1-216-843-11	METAL CHIP	68K	5%	1/10W
R547	1-216-835-11	METAL CHIP	15K	5%	1/10W
R548	1-216-853-11	METAL CHIP	470K	5%	1/10W
R560	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R562	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R563	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R570	1-216-833-11	METAL CHIP	10K	5%	1/10W
R571	1-216-833-11	METAL CHIP	10K	5%	1/10W
R573	1-216-833-11	METAL CHIP	10K	5%	1/10W
R574	1-216-833-11	METAL CHIP	10K	5%	1/10W
R575	1-216-821-11	METAL CHIP	1K	5%	1/10W
R577	1-216-833-11	METAL CHIP	10K	5%	1/10W
R578	1-216-821-11	METAL CHIP	1K	5%	1/10W
R582	1-216-864-11	SHORT CHIP	0		
R585	1-216-833-11	METAL CHIP	10K	5%	1/10W
R586	1-216-833-11	METAL CHIP	10K	5%	1/10W
R587	1-216-833-11	METAL CHIP	10K	5%	1/10W
R592	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R593	1-216-821-11	METAL CHIP	1K	5%	1/10W
R594	1-215-889-00	METAL OXIDE	330	5%	2W
R595	1-216-857-11	METAL CHIP	1M	5%	1/10W
R598	1-245-711-31	CARBON	10	5%	1/2W (GNX880)
R599	1-245-711-31	CARBON	10	5%	1/2W (GNX880)

< TRANSFORMER >

Ref. No.	Part No.	Description	Remarks
T301	1-433-372-11	TRANSFORMER, BIAS OSCILLATION	

< TERMINAL BOARD >

TM101	1-780-170-21	TERMINAL BOARD (SPEAKER) (SUBWOOFER OUT)	(GNX880)

< VIBRATOR >

X401	1-760-252-12	VIBRATOR, CRYSTAL (32.768 kHz)	
X402	1-795-058-21	VIBRATOR, CERAMIC (5 MHz)	

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	A-1156-233-A	MIC BOARD, COMPLETE			
		**********			

< CAPACITOR >

C1100	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1101	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1102	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C1103	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1104	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1105	1-124-463-00	ELECT	0.1uF	20%	50V
C1106	1-126-163-11	ELECT	4.7uF	20%	50V
C1107	1-126-163-11	ELECT	4.7uF	20%	50V
C1108	1-126-160-11	ELECT	1uF	20%	50V
C1109	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C1110	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C1111	1-124-464-11	ELECT	0.22uF	20%	50V
C1112	1-126-160-11	ELECT	1uF	20%	50V
C1113	1-162-925-11	CERAMIC CHIP	68PF	5%	50V
C1114	1-126-163-11	ELECT	4.7uF	20%	50V
C1115	1-126-163-11	ELECT	4.7uF	20%	50V
C1116	1-124-589-11	ELECT	47uF	20%	16V
C1117	1-124-589-11	ELECT	47uF	20%	16V
C1119	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1121	1-126-160-11	ELECT	1uF	20%	50V
C1122	1-110-563-11	CERAMIC CHIP	0.068uF	10%	16V
C1123	1-124-589-11	ELECT	47uF	20%	16V
C1124	1-164-730-11	CERAMIC CHIP	0.0012uF	10%	50V
C1125	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C1127	1-124-261-00	ELECT	10uF	20%	50V
C1128	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1133	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1139	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1142	1-164-156-11	CERAMIC CHIP	0.1uF		25V

< CONNECTOR >

CN1102	1-785-329-11	PIN, CONNECTOR (LIGHT ANGLE) 3P	

< DIODE >

D1100	6-501-193-01	DIODE 1SS355WTE-17	
D1101	6-501-193-01	DIODE 1SS355WTE-17	
D1102	8-719-069-54	DIODE UDZSTE-175.1B	

< FERRITE BEAD >

FB1100	1-216-864-11	SHORT CHIP	0
FB1101	1-216-864-11	SHORT CHIP	0

Ref. No.	Part No.	Description			Remarks
		< IC >			
IC1100	6-709-116-01	IC TC9488FG			
IC1101	8-759-710-97	IC NJM4565M-D			
		< JACK >			
J1100	1-817-630-11	JACK (LARGE TYPE) (MIC 1)			
J1101	1-817-630-11	JACK (LARGE TYPE) (MIC 2)			
J1103	1-794-702-11	JACK, HEADPHONE (PHONES)			
		< RESISTOR >			
R1100	1-216-835-11	METAL CHIP	15K	5%	1/10W
R1102	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1103	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1104	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1105	1-216-809-11	METAL CHIP	100	5%	1/10W
R1106	1-216-809-11	METAL CHIP	100	5%	1/10W
R1107	1-216-809-11	METAL CHIP	100	5%	1/10W
R1108	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1109	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1110	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1111	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1113	1-216-834-11	METAL CHIP	12K	5%	1/10W
R1114	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1115	1-216-815-11	METAL CHIP	330	5%	1/10W
R1116	1-216-815-11	METAL CHIP	330	5%	1/10W
R1118	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1119	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1120	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R1121	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1122	1-216-834-11	METAL CHIP	12K	5%	1/10W
R1123	1-216-835-11	METAL CHIP	15K	5%	1/10W
R1124	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1126	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1132	1-216-864-11	SHORT CHIP	0		
R1137	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1138	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1139	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1140	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1147	1-216-835-11	METAL CHIP	15K	5%	1/10W
R1152	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R1156	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
		< VARIABLE RESISTOR >			
RV1100	1-227-452-11	RES, VAR, CARBON		50K	(ECHO LEVEL)
RV1101	1-227-452-11	RES, VAR, CARBON		50K	(MIC 2 LEVEL)
RV1102	1-227-452-11	RES, VAR, CARBON		50K	(MIC 1 LEVEL)
**********					
	1-687-133-12	MOTOR (LD) BOARD			
		**********			
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Ref. No.	Part No.	Description			Remarks
	1-687-134-12	MOTOR (TB) BOARD			
		**********			
		< CONNECTOR >			
CN742	1-784-727-11	CONNECTOR, FFC 5P			
**********					
	A-1174-309-A	PA BOARD, COMPLETE (GNX780)			
	A-1181-956-A	PA BOARD, COMPLETE (GNX880)			
		**********			
		< CAPACITOR >			
C600	1-126-963-11	ELECT	4.7uF	20%	50V
C601	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C602	1-104-658-91	ELECT	100uF	20%	10V
C604	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C605	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C606	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C608	1-126-965-91	ELECT	22uF	20%	50V
C616	1-136-495-11	FILM	0.068uF	5%	50V
C617	1-136-495-11	FILM	0.068uF	5%	50V
C634	1-104-665-11	ELECT	100uF	20%	25V
C635	1-104-665-11	ELECT	100uF	20%	25V
C636	1-107-721-11	ELECT	4.7uF	20%	100V
C637	1-107-721-11	ELECT	4.7uF	20%	100V
C648	1-104-658-91	ELECT	100uF	20%	10V
C649	1-126-964-11	ELECT	10uF	20%	50V
C650	1-126-963-11	ELECT	4.7uF	20%	50V
C651	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C652	1-104-658-91	ELECT	100uF	20%	10V
C654	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C655	1-126-964-11	ELECT	10uF	20%	50V
C656	1-127-815-11	ELECT	3300uF	20%	100V
C658	1-127-812-11	ELECT	3300uF	20%	63V
C660	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C666	1-136-495-11	FILM	0.068uF	5%	50V
C667	1-136-495-11	FILM	0.068uF	5%	50V
C676	1-127-815-11	ELECT	3300uF	20%	100V
C678	1-127-812-11	ELECT	3300uF	20%	63V
C681	1-131-992-91	CERAMIC CHIP	100000PF		35V (GNX780)
C682	1-131-992-91	CERAMIC CHIP	100000PF		35V (GNX780)
C683	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C691	1-131-992-91	CERAMIC CHIP	100000PF		35V (GNX780)
C692	1-131-992-91	CERAMIC CHIP	100000PF		35V (GNX780)
C693	1-164-156-11	CERAMIC CHIP	0.1uF		25V
		< CONNECTOR >			
CN600	1-764-865-41	CONNECTOR, BOARD TO BOARD 13P			
CN601	1-784-031-41	CONNECTOR, BOARD TO BOARD 8P			
* CN607	1-564-508-11	PLUG, CONNECTOR 5P (GNX880)			
		< DIODE >			
D609	6-501-193-01	DIODE 1SS355WTE-17			
D611	8-719-056-93	DIODE UDZ-TE-17-18B			

Ref. No.	Part No.	Description	Remarks
D612	8-719-056-93	DIODE UDZ-TE-17-18B	
D620	6-501-193-01	DIODE 1SS355WTE-17	
D624	6-501-193-01	DIODE 1SS355WTE-17	
D646	6-501-193-01	DIODE 1SS355WTE-17	
D654	6-501-193-01	DIODE 1SS355WTE-17	
D655	6-501-193-01	DIODE 1SS355WTE-17	
D656	6-500-249-01	DIODE D15XB20	
D658	6-500-249-01	DIODE D15XB20	
D660	6-501-193-01	DIODE 1SS355WTE-17	
D661	6-501-193-01	DIODE 1SS355WTE-17	
D665	6-501-193-01	DIODE 1SS355WTE-17 (GNX880)	
D670	6-501-193-01	DIODE 1SS355WTE-17	
		< IC >	
IC600	8-749-017-06	IC STK412-150 (GNX880)	
IC600	8-749-017-07	IC STK412-170 (GNX780)	
		< JUMPER RESISTOR >	
JR600	1-216-296-11	SHORT CHIP 0	
JR601	1-216-296-11	SHORT CHIP 0	
JR602	1-216-296-11	SHORT CHIP 0	
JR603	1-216-296-11	SHORT CHIP 0	
JR612	1-216-864-11	SHORT CHIP 0	
		< COIL >	
L680	1-420-872-52	COIL, AIR-CORE (GNX780)	
L690	1-420-872-52	COIL, AIR-CORE (GNX780)	
		< TRANSISTOR >	
Q604	8-729-924-99	TRANSISTOR 2SC3722K-E	
Q606	8-729-821-00	TRANSISTOR 2SA1207	
Q610	8-729-924-99	TRANSISTOR 2SC3722K-E	
Q618	8-729-924-99	TRANSISTOR 2SC3722K-E	
Q628	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q630	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q634	8-729-027-31	TRANSISTOR DTA124EKA-T146	
Q640	8-729-023-22	TRANSISTOR 2SD2114K	
Q641	8-729-023-22	TRANSISTOR 2SD2114K	
Q644	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q647	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q648	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q666	8-729-230-49	TRANSISTOR 2SC2712-YG (GNX880)	
Q668	8-729-924-99	TRANSISTOR 2SC3722K-E	
Q682	8-729-230-49	TRANSISTOR 2SC2712-YG	
		< RESISTOR >	
R600	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R601	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R602	1-216-817-11	METAL CHIP 470 5% 1/10W	
R603	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R604	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R605	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R606	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R607	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R608	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R609	1-216-843-11	METAL CHIP 68K 5% 1/10W	
R610	1-216-843-11	METAL CHIP 68K 5% 1/10W	
R611	1-216-839-11	METAL CHIP 33K 5% 1/10W	

Ref. No.	Part No.	Description	Remarks
⚠R612	1-245-605-51	FUSIBLE 100 5% 1/4W	
R613	1-215-872-11	METAL OXIDE 3.3K 5% 1W	
R614	1-215-872-11	METAL OXIDE 3.3K 5% 1W	
⚠R615	1-245-605-51	FUSIBLE 100 5% 1/4W	
⚠R616	1-217-637-00	FUSIBLE 1 5% 1/4W	
R617	1-216-845-11	METAL CHIP 100K 5% 1/10W	
⚠R618	1-234-798-11	ENCAPSULATED COMPONENT	
R619	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R620	1-216-839-11	METAL CHIP 33K 5% 1/10W	
R621	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R622	1-245-711-31	CARBON 10 5% 1/2W	
R623	1-216-843-11	METAL CHIP 68K 5% 1/10W	
R624	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R625	1-216-826-11	METAL CHIP 2.7K 5% 1/10W	(GNX880)
R625	1-216-828-11	METAL CHIP 3.9K 5% 1/10W	(GNX780)
R628	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R629	1-216-830-11	METAL CHIP 5.6K 5% 1/10W	
R630	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R631	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R633	1-216-864-11	SHORT CHIP 0	
R634	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R635	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R636	1-215-891-11	METAL OXIDE 680 5% 2W	
R637	1-215-891-11	METAL OXIDE 680 5% 2W	
R638	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R639	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R640	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R641	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R642	1-216-811-11	METAL CHIP 150 5% 1/10W	
R643	1-216-811-11	METAL CHIP 150 5% 1/10W	
R644	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R645	1-216-833-11	METAL CHIP 10K 5% 1/10W	
⚠R646	1-260-086-31	CARBON 82 5% 1/2W	
R647	1-216-821-11	METAL CHIP 1K 5% 1/10W	(GNX880)
R647	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	(GNX780)
R648	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	(GNX780)
R648	1-216-837-11	METAL CHIP 22K 5% 1/10W	(GNX880)
R649	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	(GNX780)
R649	1-216-837-11	METAL CHIP 22K 5% 1/10W	(GNX880)
R650	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R651	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R652	1-216-817-11	METAL CHIP 470 5% 1/10W	
R653	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R654	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R655	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R656	1-216-849-11	METAL CHIP 220K 5% 1/10W	
R657	1-216-849-11	METAL CHIP 220K 5% 1/10W	
R658	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R660	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R661	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R662	1-216-811-11	METAL CHIP 150 5% 1/10W	

Ref. No.	Part No.	Description			Remarks
R663	1-216-811-11	METAL CHIP	150	5%	1/10W
⚠R665	1-260-086-31	CARBON	82	5%	1/2W (GNX880)
R666	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GNX880)
R667	1-216-833-11	METAL CHIP	10K	5%	1/10W (GNX880)
⚠R668	1-234-798-11	ENCAPSULATED COMPONENT			
R669	1-216-821-11	METAL CHIP	1K	5%	1/10W
R670	1-216-839-11	METAL CHIP	33K	5%	1/10W
R671	1-216-845-11	METAL CHIP	100K	5%	1/10W
R672	1-245-711-31	CARBON	10	5%	1/2W
R673	1-216-842-11	METAL CHIP	56K	5%	1/10W
R674	1-216-837-11	METAL CHIP	22K	5%	1/10W
R676	1-216-849-11	METAL CHIP	220K	5%	1/10W
R677	1-216-849-11	METAL CHIP	220K	5%	1/10W
R678	1-216-845-11	METAL CHIP	100K	5%	1/10W
R680	1-245-711-31	CARBON	10	5%	1/2W (GNX780)
R681	1-245-711-31	CARBON	10	5%	1/2W (GNX780)
R682	1-216-821-11	METAL CHIP	1K	5%	1/10W
R683	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R685	1-216-833-11	METAL CHIP	10K	5%	1/10W
R690	1-245-711-31	CARBON	10	5%	1/2W (GNX780)
R691	1-245-711-31	CARBON	10	5%	1/2W (GNX780)
R692	1-216-841-11	METAL CHIP	47K	5%	1/10W
R693	1-216-845-11	METAL CHIP	100K	5%	1/10W
R694	1-216-843-11	METAL CHIP	68K	5%	1/10W
R695	1-216-845-11	METAL CHIP	100K	5%	1/10W
R696	1-216-845-11	METAL CHIP	100K	5%	1/10W
R697	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R698	1-216-845-11	METAL CHIP	100K	5%	1/10W
		< RELAY >			
RY646	1-755-500-11	RELAY			
RY665	1-755-500-11	RELAY (GNX880)			
		< THERMISTOR >			
TH629	1-807-796-11	THERMISTOR			
TH630	1-807-796-11	THERMISTOR			
		< TERMINAL >			
TM600	1-780-001-21	TERMINAL BOARD (FRONT SPEAKER)			
TM601	1-780-001-21	TERMINAL BOARD (SURR SPEAKER) (GNX880)			
**********					
	A-1156-224-A	PANEL BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C900	1-126-163-11	ELECT	4.7uF	20%	50V
C901	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C902	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C903	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C904	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C905	1-164-156-11	CERAMIC CHIP	0.1uF		25V

Ref. No.	Part No.	Description			Remarks
C906	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C908	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C909	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C910	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C916	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C917	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C920	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C922	1-119-941-91	ELECT	470uF	20%	6.3V
C923	1-119-941-91	ELECT	470uF	20%	6.3V
C924	1-119-941-91	ELECT	470uF	20%	6.3V
C925	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C926	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C927	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C928	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C929	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C930	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C931	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C932	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C933	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C934	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C935	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C936	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C937	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C938	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C939	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C940	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C941	1-124-261-00	ELECT	10uF	20%	50V
C942	1-124-261-00	ELECT	10uF	20%	50V
C943	1-124-261-00	ELECT	10uF	20%	50V
C945	1-115-156-11	CERAMIC CHIP	1uF		10V
C946	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C947	1-115-156-11	CERAMIC CHIP	1uF		10V
C948	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C949	1-115-156-11	CERAMIC CHIP	1uF		10V
C950	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C951	1-115-156-11	CERAMIC CHIP	1uF		10V
C952	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C953	1-115-156-11	CERAMIC CHIP	1uF		10V
C954	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C955	1-115-156-11	CERAMIC CHIP	1uF		10V
C956	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C957	1-115-156-11	CERAMIC CHIP	1uF		10V
C958	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C959	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C961	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C962	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C964	1-124-589-11	ELECT	47uF	20%	16V
C967	1-124-261-00	ELECT	10uF	20%	50V
C972	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C973	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C974	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C975	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C977	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C978	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C979	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C980	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C981	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C982	1-162-927-11	CERAMIC CHIP	100PF	5%	50V

PANEL

Ref. No.	Part No.	Description			Remarks
C983	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1180	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
		< CONNECTOR >			
CN900	1-784-739-11	CONNECTOR, FFC 17P			
CN902	1-784-739-11	CONNECTOR, FFC 17P			
CNS901	1-770-401-11	HOUSING, CONNECTOR (PC BOARD) 8P			
		< DIODE >			
D901	6-501-193-01	DIODE 1SS355WTE-17			
D905	8-719-978-33	DIODE DTZ-TT11-6.8B			
D908	8-719-058-04	DIODE SEL5223S-TP15 (CD)			
D909	8-719-058-04	DIODE SEL5223S-TP15 (TUNER BAND)			
D910	8-719-058-04	DIODE SEL5223S-TP15 (TAPE A/B)			
D911	8-719-058-04	DIODE SEL5223S-TP15 (▶)			
D913	8-719-058-04	DIODE SEL5223S-TP15 (TUNING+ ▶▶I)			
D914	8-719-058-04	DIODE SEL5223S-TP15 (TUNING- I◀◀)			
D915	6-501-228-01	DIODE SELU5420E-STP15 (▶)			
D916	8-719-058-04	DIODE SEL5223S-TP15 (TV)			
D917	8-719-058-04	DIODE SEL5223S-TP15 (VIDEO/MD)			
D927	8-719-058-04	DIODE SEL5223S-TP15 (I/⏻)			
D928	6-501-228-01	DIODE SELU5420E-STP15 (I/⏻)			
D929	8-719-058-04	DIODE SEL5223S-TP15 (ALBUM+ ▶▶)			
D930	8-719-058-04	DIODE SEL5223S-TP15 (ALBUM- ◀◀)			
D931	6-501-193-01	DIODE 1SS355WTE-17			
D932	6-501-193-01	DIODE 1SS355WTE-17			
D1145	8-719-058-04	DIODE SEL5223S-TP15 (❚❚)			
D1153	8-719-058-04	DIODE SEL5223S-TP15 (■)			
		< FERRITE BEAD >			
FB901	1-216-864-11	SHORT CHIP	0		
		< FLUORESCENT INDICATOR >			
FL901	1-519-794-21	VACUUM FLUORESCENT DISPLAYS			
		< IC >			
IC902	6-806-205-01	IC MB90M407PF-G-148E1			
IC903	6-600-309-01	IC RPM7240-H9 (B)			
IC904	6-705-678-01	IC NJM2760V-TE2			
		< JUMPER RESISTOR >			
JR914	1-216-864-11	SHORT CHIP	0		
JR918	1-216-864-11	SHORT CHIP	0		
JR919	1-216-864-11	SHORT CHIP	0		
JR925	1-216-296-11	SHORT CHIP	0		
		< TRANSISTOR >			
Q901	8-729-027-56	TRANSISTOR DTC143TKA-T146			
Q902	8-729-027-56	TRANSISTOR DTC143TKA-T146			
Q903	8-729-027-29	TRANSISTOR DTA123JKA-T146			
Q904	8-729-106-60	TRANSISTOR 2SB1115A-YQ			
Q905	8-729-106-60	TRANSISTOR 2SB1115A-YQ			
Q906	8-729-027-50	TRANSISTOR DTC123JKA-T146			
Q907	8-729-027-50	TRANSISTOR DTC123JKA-T146			
Q908	8-729-027-50	TRANSISTOR DTC123JKA-T146			
Q909	8-729-027-50	TRANSISTOR DTC123JKA-T146			
Q910	8-729-027-50	TRANSISTOR DTC123JKA-T146			
Q914	8-729-027-56	TRANSISTOR DTC143TKA-T146			
Q917	8-729-027-50	TRANSISTOR DTC123JKA-T146			
Q918	8-729-027-50	TRANSISTOR DTC123JKA-T146			
Q919	8-729-027-50	TRANSISTOR DTC123JKA-T146			
		< RESISTOR >			
R900	1-216-833-11	METAL CHIP	10K	5%	1/10W
R901	1-216-833-11	METAL CHIP	10K	5%	1/10W
R902	1-216-833-11	METAL CHIP	10K	5%	1/10W
R903	1-216-809-11	METAL CHIP	100	5%	1/10W
R904	1-216-809-11	METAL CHIP	100	5%	1/10W
R905	1-216-835-11	METAL CHIP	15K	5%	1/10W
R906	1-216-835-11	METAL CHIP	15K	5%	1/10W
R907	1-216-835-11	METAL CHIP	15K	5%	1/10W
R908	1-216-809-11	METAL CHIP	100	5%	1/10W
R909	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R910	1-216-819-11	METAL CHIP	680	5%	1/10W
R911	1-216-819-11	METAL CHIP	680	5%	1/10W
R912	1-216-809-11	METAL CHIP	100	5%	1/10W
R914	1-216-819-11	METAL CHIP	680	5%	1/10W
R915	1-216-819-11	METAL CHIP	680	5%	1/10W
R916	1-216-819-11	METAL CHIP	680	5%	1/10W
R917	1-216-819-11	METAL CHIP	680	5%	1/10W
R918	1-216-845-11	METAL CHIP	100K	5%	1/10W
R919	1-216-845-11	METAL CHIP	100K	5%	1/10W
R920	1-216-845-11	METAL CHIP	100K	5%	1/10W
R922	1-216-857-11	METAL CHIP	1M	5%	1/10W
R923	1-216-819-11	METAL CHIP	680	5%	1/10W
R924	1-216-819-11	METAL CHIP	680	5%	1/10W
R925	1-216-819-11	METAL CHIP	680	5%	1/10W
R926	1-216-819-11	METAL CHIP	680	5%	1/10W
R941	1-216-809-11	METAL CHIP	100	5%	1/10W
R942	1-216-809-11	METAL CHIP	100	5%	1/10W
R943	1-216-833-11	METAL CHIP	10K	5%	1/10W
R944	1-216-805-11	METAL CHIP	47	5%	1/10W
R947	1-216-821-11	METAL CHIP	1K	5%	1/10W
R948	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R949	1-216-821-11	METAL CHIP	1K	5%	1/10W
R950	1-216-821-11	METAL CHIP	1K	5%	1/10W
R951	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R952	1-216-821-11	METAL CHIP	1K	5%	1/10W
R953	1-216-821-11	METAL CHIP	1K	5%	1/10W
R954	1-216-833-11	METAL CHIP	10K	5%	1/10W
R956	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R957	1-216-819-11	METAL CHIP	680	5%	1/10W
R964	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R965	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R966	1-216-833-11	METAL CHIP	10K	5%	1/10W
R967	1-216-835-11	METAL CHIP	15K	5%	1/10W
R968	1-216-837-11	METAL CHIP	22K	5%	1/10W
R974	1-216-819-11	METAL CHIP	680	5%	1/10W
R975	1-216-819-11	METAL CHIP	680	5%	1/10W
R979	1-216-805-11	METAL CHIP	47	5%	1/10W
R980	1-216-821-11	METAL CHIP	1K	5%	1/10W
R981	1-216-809-11	METAL CHIP	100	5%	1/10W
R982	1-216-817-11	METAL CHIP	470	5%	1/10W
R983	1-216-842-11	METAL CHIP	56K	5%	1/10W
R984	1-216-839-11	METAL CHIP	33K	5%	1/10W

Ref. No.	Part No.	Description			Remarks
R987	1-216-819-11	METAL CHIP	680	5%	1/10W
R988	1-216-819-11	METAL CHIP	680	5%	1/10W
R990	1-216-819-11	METAL CHIP	680	5%	1/10W
R991	1-216-819-11	METAL CHIP	680	5%	1/10W
R997	1-216-819-11	METAL CHIP	680	5%	1/10W
R1007	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1008	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1009	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1010	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1011	1-216-835-11	METAL CHIP	15K	5%	1/10W
R1012	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1013	1-216-839-11	METAL CHIP	33K	5%	1/10W
R1021	1-216-809-11	METAL CHIP	100	5%	1/10W
R1022	1-216-809-11	METAL CHIP	100	5%	1/10W
R1023	1-216-809-11	METAL CHIP	100	5%	1/10W
R1024	1-216-809-11	METAL CHIP	100	5%	1/10W
R1025	1-216-809-11	METAL CHIP	100	5%	1/10W
R1026	1-216-809-11	METAL CHIP	100	5%	1/10W
R1027	1-216-809-11	METAL CHIP	100	5%	1/10W
R1028	1-216-809-11	METAL CHIP	100	5%	1/10W
R1098	1-216-819-11	METAL CHIP	680	5%	1/10W
R1112	1-216-819-11	METAL CHIP	680	5%	1/10W
R1135	1-216-819-11	METAL CHIP	680	5%	1/10W
R1136	1-216-819-11	METAL CHIP	680	5%	1/10W
R1141	1-216-819-11	METAL CHIP	680	5%	1/10W
R1142	1-216-819-11	METAL CHIP	680	5%	1/10W
R1143	1-216-819-11	METAL CHIP	680	5%	1/10W
R1171	1-216-819-11	METAL CHIP	680	5%	1/10W
R1178	1-216-801-11	METAL CHIP	22	5%	1/10W
R1179	1-216-819-11	METAL CHIP	680	5%	1/10W
R1180	1-216-808-11	METAL CHIP	82	5%	1/10W
R1181	1-216-814-11	METAL CHIP	270	5%	1/10W
R1187	1-216-833-11	METAL CHIP	10K	5%	1/10W
		< SWITCH >			
S907	1-762-875-21	SWITCH, KEYBOARD (▶)			
S908	1-762-875-21	SWITCH, KEYBOARD (❚❚)			
S909	1-762-875-21	SWITCH, KEYBOARD (■)			
S910	1-762-875-21	SWITCH, KEYBOARD (TUNING+ ▶▶❙)			
S911	1-762-875-21	SWITCH, KEYBOARD (TUNING- ❙◀◀)			
S912	1-762-875-21	SWITCH, KEYBOARD (ALBUM+ ▶▶)			
S913	1-762-875-21	SWITCH, KEYBOARD (ALBUM- ◀◀)			
S921	1-762-875-21	SWITCH, KEYBOARD (VIDEO/MD)			
S922	1-762-875-21	SWITCH, KEYBOARD (TV)			
S923	1-762-875-21	SWITCH, KEYBOARD (TAPE A/B)			
S924	1-762-875-21	SWITCH, KEYBOARD (TUNER BAND)			
S925	1-762-875-21	SWITCH, KEYBOARD (CD)			
S927	1-762-875-21	SWITCH, KEYBOARD (❙/⏻)			
		< VIBRATOR >			
X901	1-781-282-51	VIBRATOR, CERAMIC (4 MHz)			
**********					
		PRIMARY BOARD			
		**********			
		< CAPACITOR >			
C1201	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1202	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1204	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1206	1-126-916-11	ELECT	1000uF	20%	6.3V
		< CONNECTOR >			
CN1200	1-785-329-11	PIN, CONNECTOR (LIGHT ANGLE) 3P			
CN1202	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P			
CN1204	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P			
		< DIODE >			
D1200	6-501-193-01	DIODE 1SS355WTE-17			
		< JUMPER RESISTOR >			
JR1202	1-216-864-11	SHORT CHIP	0		
		< COIL >			
L1201	1-410-666-31	INDUCTOR	18uH		
		< TRANSISTOR >			
Q1200	8-729-230-49	TRANSISTOR	2SC2712-YG		
		< RESISTOR >			
R1200	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1201	1-216-845-11	METAL CHIP	100K	5%	1/10W
		< RELAY >			
⚠RY1200	1-755-299-11	RELAY			
**********					
	1-687-132-12	SENSOR BOARD			
		**********			
		< CONNECTOR >			
CN731	1-785-329-21	PIN, CONNECTOR (LIGHT ANGLE) 3P			
		< IC >			
IC731	6-600-022-01	IC RPI-576			
**********					
	A-1156-249-A	SURROUND BOARD, COMPLETE (GNX880)			
		**********			
		< CAPACITOR >			
C800	1-126-963-11	ELECT	4.7uF	20%	50V (GNX880)
C801	1-100-717-91	CERAMIC CHIP	1uF		16V (GNX880)
C802	1-104-658-91	ELECT	100uF	20%	10V (GNX880)
C803	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (GNX880)
C804	1-164-156-91	CERAMIC CHIP	0.1uF		25V (GNX880)
C805	1-164-156-91	CERAMIC CHIP	0.1uF		25V (GNX880)
C806	1-126-961-11	ELECT	2.2uF	20%	50V (GNX880)

Ref. No.	Part No.	Description			Remarks
C807	1-100-717-91	CERAMIC CHIP	1uF		16V (GNX880)
C820	1-126-964-11	ELECT	10uF	20%	50V (GNX880)
C825	1-126-968-11	ELECT	100uF	20%	50V (GNX880)
C826	1-126-968-11	ELECT	100uF	20%	50V (GNX880)
C838	1-136-495-11	FILM	0.068uF	5%	50V (GNX880)
C839	1-136-495-11	FILM	0.068uF	5%	50V (GNX880)
C843	1-126-963-11	ELECT	4.7uF	20%	50V (GNX880)
C850	1-126-963-11	ELECT	4.7uF	20%	50V (GNX880)
C851	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (GNX880)
C852	1-104-658-91	ELECT	100uF	20%	10V (GNX880)
C853	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (GNX880)
C888	1-136-495-11	FILM	0.068uF	5%	50V (GNX880)
C889	1-136-495-11	FILM	0.068uF	5%	50V (GNX880)
		< CONNECTOR >			
CN700	1-784-041-41	CONNECTOR, BOARD TO BOARD 9P (GNX880)			
		< DIODE >			
D800	6-501-193-01	DIODE 1SS355WTE-17 (GNX880)			
D810	6-501-193-01	DIODE 1SS355WTE-17 (GNX880)			
D811	6-501-193-01	DIODE 1SS355WTE-17 (GNX880)			
D812	6-501-193-01	DIODE 1SS355WTE-17 (GNX880)			
D850	6-501-193-01	DIODE 1SS355WTE-17 (GNX880)			
		< IC >			
IC800	6-705-853-01	IC STK403-120 (GNX880)			
		< TRANSISTOR >			
Q800	8-729-924-99	TRANSISTOR 2SC3722K-E (GNX880)			
Q810	8-729-023-22	TRANSISTOR 2SD2114K (GNX880)			
Q812	8-729-924-99	TRANSISTOR 2SC3722K-E (GNX880)			
Q814	8-729-230-49	TRANSISTOR 2SC2712-YG (GNX880)			
Q815	8-729-230-49	TRANSISTOR 2SC2712-YG (GNX880)			
Q850	8-729-924-99	TRANSISTOR 2SC3722K-E (GNX880)			
		< RESISTOR >			
R800	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNX880)
R801	1-216-841-11	METAL CHIP	47K	5%	1/10W (GNX880)
R802	1-216-822-11	METAL CHIP	1.2K	5%	1/10W (GNX880)
R803	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GNX880)
⚠R804	1-217-637-00	FUSIBLE	1	5%	1/4W (GNX880)
⚠R805	1-217-637-00	FUSIBLE	1	5%	1/4W (GNX880)

Ref. No.	Part No.	Description			Remarks
R806	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNX880)
R807	1-216-841-11	METAL CHIP	47K	5%	1/10W (GNX880)
R808	1-216-841-11	METAL CHIP	47K	5%	1/10W (GNX880)
R812	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GNX880)
R814	1-216-833-11	METAL CHIP	10K	5%	1/10W (GNX880)
R817	1-216-833-11	METAL CHIP	10K	5%	1/10W (GNX880)
⚠R827	1-245-605-51	FUSIBLE	100	5%	1/4W (GNX880)
⚠R828	1-245-605-51	FUSIBLE	100	5%	1/4W (GNX880)
⚠R838	1-220-893-11	METAL	0.22	10%	5W (GNX880)
R839	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNX880)
R840	1-216-837-11	METAL CHIP	22K	5%	1/10W (GNX880)
R841	1-216-845-11	METAL CHIP	100K	5%	1/10W (GNX880)
R842	1-245-711-31	CARBON	10	5%	1/2W (GNX880)
R843	1-216-841-11	METAL CHIP	47K	5%	1/10W (GNX880)
R850	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNX880)
R851	1-216-841-11	METAL CHIP	47K	5%	1/10W (GNX880)
R852	1-218-457-11	METAL CHIP	910	5%	1/10W (GNX880)
R858	1-216-841-11	METAL CHIP	47K	5%	1/10W (GNX880)
R860	1-216-842-11	METAL CHIP	56K	5%	1/10W (GNX880)
R861	1-216-841-11	METAL CHIP	47K	5%	1/10W (GNX880)
⚠R862	1-260-086-31	CARBON	82	5%	1/2W (GNX880)
R863	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GNX880)
R864	1-216-837-11	METAL CHIP	22K	5%	1/10W (GNX880)
R865	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNX880)
R866	1-216-837-11	METAL CHIP	22K	5%	1/10W (GNX880)
⚠R888	1-220-893-11	METAL	0.22	10%	5W (GNX880)
R889	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNX880)
R890	1-216-837-11	METAL CHIP	22K	5%	1/10W (GNX880)
R891	1-216-845-11	METAL CHIP	100K	5%	1/10W (GNX880)
R892	1-245-711-31	CARBON	10	5%	1/2W (GNX880)

Ref. No.	Part No.	Description			Remarks
		< RELAY >			
RY862	1-755-500-11	RELAY (GNX880)			
**********					
	1-687-669-12	SW BOARD			
		*********			
		< SWITCH >			
S751	1-786-514-11	SWITCH, LEVER (SLIDE) (LEVEL)			
**********					
		TRANS BOARD			
		**********			
	1-533-217-41	HOLDER, FUSE			
		< CAPACITOR >			
C1262	1-126-964-11	ELECT	10uF	20%	50V
C1263	1-126-968-11	ELECT	100uF	20%	50V
C1292	1-128-576-11	ELECT	100uF	20%	63V
		< CONNECTOR >			
* CN1212	1-564-522-11	PLUG, CONNECTOR 7P			
* CN1213	1-564-521-11	PLUG, CONNECTOR 6P			
		< DIODE >			
D1264	8-719-071-83	DIODE HZU36BTRF			
D1292	6-500-522-21	DIODE 10EDB40-TB3			
		< TRANSISTOR >			
Q1264	8-729-024-93	TRANSISTOR 2SB1565E			
		< RESISTOR >			
R1262	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R1263	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R1264	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1292	1-219-124-11	FUSIBLE	0.68	5%	1/4W
**********					
		MISCELLANEOUS			
		**********			
5	1-693-702-21	TUNER (FM/AM) (TM10SE)			
⚠7	1-468-737-51	POWER SWITCHING			
8	1-775-280-11	WIRE (FLAT TYPE) (31 CORE)			
10	1-823-718-11	WIRE (FLAT TYPE) (17 CORE) (100mm)			
65	1-828-990-11	WIRE (FLAT TYPE) (17 CORE) (80mm)			
66	1-828-991-11	WIRE (FLAT TYPE) (17 CORE) (100mm)			
67	1-417-656-11	MECHA DECK (CWN42FF601)			
⚠157	1-829-627-31	POWER-SUPPLY CORD			
202	1-776-182-11	WIRE (FLAT TYPE) (5 CORE)			
251	1-471-035-11	MAGNET ASSY			
276	1-827-992-11	WIRE (FLAT TYPE) (16 CORE)			
⚠279	8-820-244-01	OPTICAL PICK-UP KSM-215DCP/C2NP			
⚠F1241	1-533-949-33	FUSE, CYLINDRICAL (TIME LUG) (T8AL/250V)			
⚠F1251	1-533-949-33	FUSE, CYLINDRICAL (TIME LUG) (T8AL/250V)			
⚠F1261	1-533-949-33	FUSE, CYLINDRICAL (TIME LUG) (T8AL/250V)			
⚠F1271	1-533-949-33	FUSE, CYLINDRICAL (TIME LUG) (T8AL/250V)			
⚠F1281	1-532-465-33	FUSE (T3.15AL/250V)			

Ref. No.	Part No.	Description	Remarks
M741	A-1108-965-A	MOTOR ASSY, TABLE (TABLE)	
M751	A-4737-553-A	MOTOR ASSY, LOADING	
M891	1-787-400-11	D.C. FAN	
S711	1-477-680-12	ENCODER, ROTARY	
⚠T1200	1-443-584-11	POWER TRANSFORMER (GNX880)	
⚠T1200	1-443-973-11	POWER TRANSFORMER (GNX780)	

REVISION HISTORY

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

Ver.	Date	Description of Revision
1.0	2006.03	New
1.1	2006.09	Change of IC401 (microprocessor). (ECB-47190)
		Addition of C101, D103, 104, 403, 404, R531 and 581 to main board. Change of R532 and 582 in main board. (ECB-50136)
		Change of C658 and C678 on PA board. (ECB-51303)
		Addition of C1142 to MIC board. (ECB-51550)
		Addition of R1600, 1602, 1604 and 1606 to effector board. (ECB-54582)
		Change of R577 on main board. (ECB-55962)
		Change of C804 and 805 on surround board. (ECB-56587)
		Change of R680, 681, 690, 691 on PA board. (ECB-58664)
		Change of R602, 625, 652 on PA board. (ECB-61224)
		Change of R802 on surround board. (ECB-64486)
		Change of R1200 on primary board. (ECB-66013)
		Suffix change for effector combind board from -12 to -13. (ECB-66252)
		Addition of C1601, 1602, R1604 and 1606 to effector board. (ECB-66783)
		Suffix change of S970 on function board. (ECB-66838)
		Change of R602, 625, 652, R649, 660, 661 on PA board. (ECB-74903)