

HCD-ZUX9

SERVICE MANUAL

Ver. 1.1 2007.11

US Model
E Model
Australian Model



- HCD-ZUX9 is the tuner, deck, CD and amplifier section in FST-ZUX9, LBT-ZUX9.

AUDIO POWER SPECIFICATION (US model only)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 6-ohm loads, both channels driven, from 120 Hz – 10 kHz; rates 160 watts per channel minimum RMS power, with no more than 10 % total harmonic distortion from 250 milliwatts to rated output.

Amplifier section

The following are measured at

US model:

AC 120 V, 60 Hz

Other models:

AC 120, 220, 240 V, 50/60 Hz

Front/Surround speaker

Power Output (rated):

160 W + 160 W (at 6 Ω , 1 kHz,
1% THD)

RMS output power (reference):

250 W + 250 W (per channel at 6 Ω ,
1 kHz, 10% THD)

Inputs

VIDEO (AUDIO IN) L/R :

Voltage 250 mV, impedance
47 kilohms

AUDIO (AUDIO IN) L/R:

Voltage 450 mV, impedance
47 kilohms

MIC:

Sensitivity 1 mV, impedance
10 kilohms

• (USB) port:

Type A

CD Section	Model Name Using Similar Mechanism	HCD-GTX88
	CD Mechanism Type	CDM74KF-K6BD91UR-WOD
	Base Unit Name	BU-K6BD91UR-WOD
	Optical Pick-up Name	KSM-213DCP
Tape Section	Model Name Using Similar Mechanism	HCD-GTX88

SPECIFICATIONS

Outputs

PHONES:

accepts headphones of 8 ohms or more

Disc player section

System

Compact disc and digital audio system

Laser

Semiconductor laser

($\lambda = 770 - 810$ nm)

Emission duration: continuous

Laser Output

Max. 44.6 μ W*

* 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

Wave length

770 – 810 nm

Signal-to-noise ratio

More than 90 dB

Dynamic range

More than 88 dB

– Continued on next page –

MINI Hi-Fi COMPONENT SYSTEM

9-887-765-02
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Sony Corporation
Audio Business Group
Published by Sony Techno Create Corporation

SONY®

HCD-ZUX9

Ver. 1.1

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
US model:
87.5 – 108.0 MHz (100 kHz step)
Other models:
87.5 – 108.0 MHz (50 kHz step)

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

AM tuner section

Tuning range
US and AUS models:
530 – 1,710 kHz (with the interval set
at 10 kHz)
531 – 1,710 kHz (with the interval set
at 9 kHz)
Other models:
531 – 1,602 kHz (with the interval set
at 9 kHz)
530 – 1,610 kHz (with the interval set
at 10 kHz)

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

USB section

Supported bit rate
MP3 (MPEG 1 Audio Layer 3):
32 – 320 kbps, VBR
Sampling frequencies
MP3 (MPEG 1 Audio Layer 3):
32/44.1/48 kHz
Transfer speed
Full-Speed
Supported USB device
Mass Storage Class
Maximum current
500 mA

General

Power requirements
US model: 120 V AC, 60 Hz
AUS model: 230 – 240 V AC,
50/60 Hz
Other models: 120 V, 220 V or
230 – 240 V AC, 50/60 Hz, adjustable
with voltage selector
Power consumption
420 W
Dimensions (Approx.)
491 × 297.5 × 460 mm (w/h/d)
Mass (Approx.)
20 kg
Supplied accessories:
Remote Commander (2)
R6 (size AA) batteries (4)
AM loop antenna (1)
FM lead antenna (1)
Front speaker pads (8)
Surround speaker pads (8)
Speaker cords (4)

Design and specifications are subject to
change without notice.

- Abbreviation
AUS : Australian model

SAFETY-RELATED COMPONENT WARNING!!

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

Notes on 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 the 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.

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)

LF: 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.

CAUTION

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

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

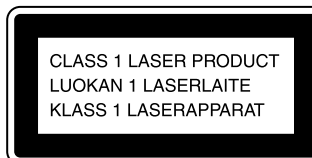
The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter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

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

NOTES ON LASER DIODE EMISSION CHECK

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

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.



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

SAFETY CHECK-OUT (US MODEL)

After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes).

Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

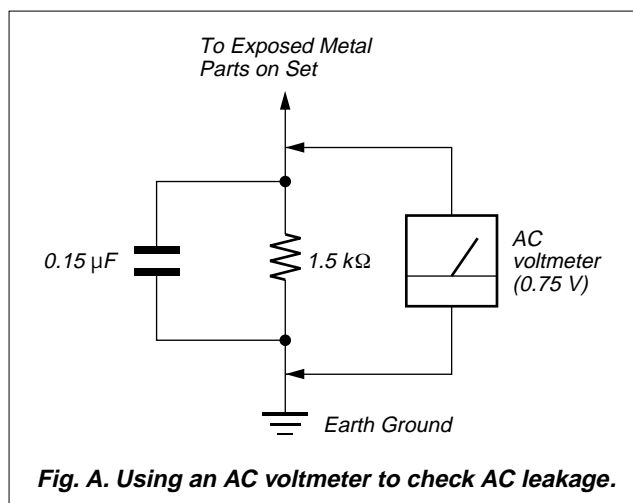
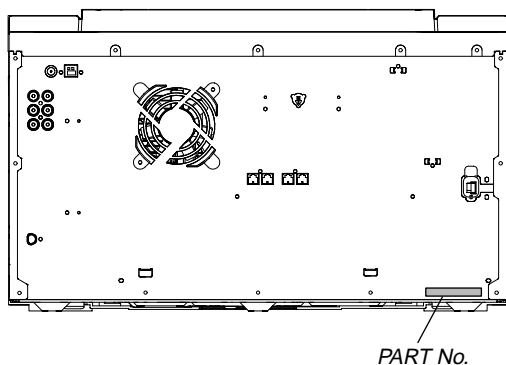


Fig. A. Using an AC voltmeter to check AC leakage.

MODEL IDENTIFICATION

– BACK PANEL –



Model	Part No.
E2	3-095-364-0□
E51	3-095-364-1□
E13	3-095-364-2□
AUS	3-095-364-5□
US	3-095-364-6□

- Abbreviation
 E2 : 120 V AC area in E model
 E13 : 220-230 V AC area in E model
 E51 : Chilean and Peruvian model
 AUS : Australian model

PLAYABLE DISC

Format of discs	Logo
<ul style="list-style-type: none"> • AUDIO CD 	
<ul style="list-style-type: none"> • CD-R/-RW in AUDIO CD format • CD-R/-RW in DATA CD format, containing MP3 audio tracks ¹⁾ that conforms to ISO 9660 ²⁾ Level 1/Level 2, Joliet (in expansion format), or Multi Session ³⁾ 	

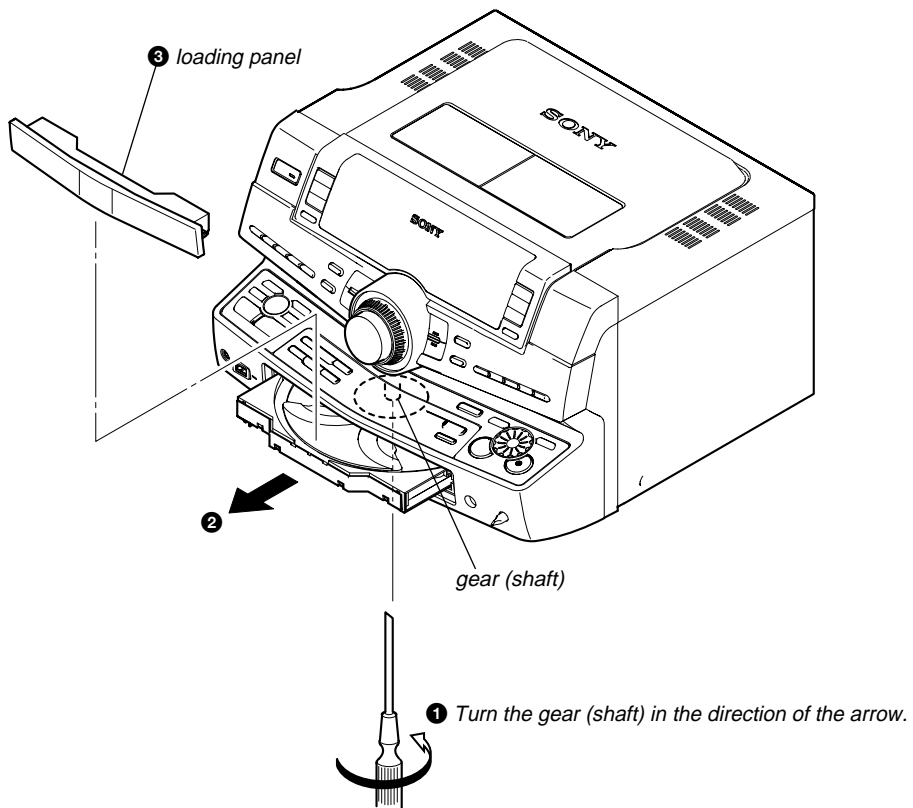
- ¹⁾ MP3 (MPEG 1 Audio Layer 3) is a standard format defined by ISO/MPEG which compresses audio data. MP3 audio tracks must be in MPEG 1 Audio Layer 3 format.
- ²⁾ A logical format of files and folders on CD-ROMs, defined by ISO (International Organization for Standardization).
- ³⁾ This is a recording method that enables adding of data using the Track-At-Once method. Conventional discs begin at a disc control area called the Lead-in and end at an area called Lead-out. A Multi Session disc is a disc having multiple sessions, with each segment from Lead-in to Lead-out regarded as a single session.

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SECTION 1
SERVICING NOTES

LOADING PANEL



SECTION 2 GENERAL

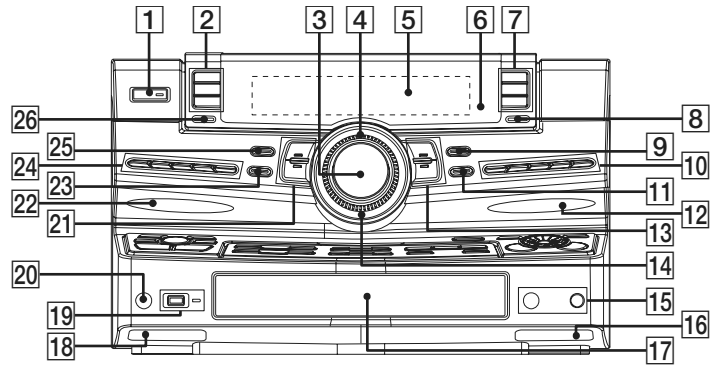
This section is extracted from instruction manual.

Guide to parts and controls

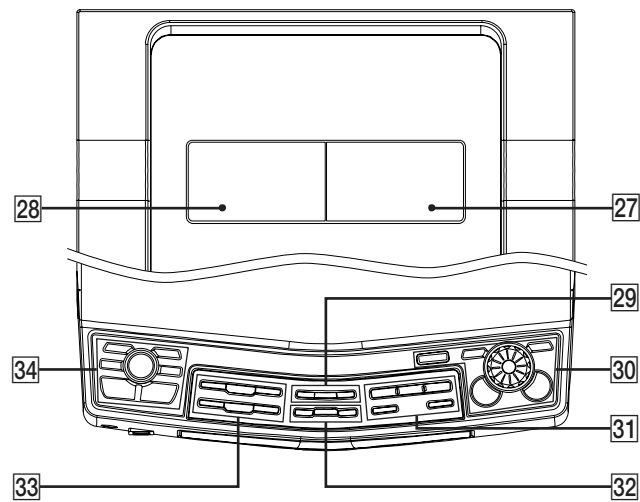
This manual mainly explains operations using the buttons on the unit, but the same operations can also be performed using the buttons on the remote having the same or similar names.

Unit


– Front view



– Top view



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- 1 **I/⏻** (on/standby) (pages 15, 16, 17, 24, 30, 42, 47, 53)
Press to turn the system on or off.
- 2 **Function buttons:**
CD (pages 16, 18, 20, 23, 30, 32, 43)
TUNER/BAND (pages 29, 43)
TAPE A/B (pages 31, 43)
Press to select a function.
- 3 **MASTER VOLUME** (pages 18, 25, 42, 47)
Turn to adjust the volume.
- 4 **OPERATION DIAL** (pages 18, 26, 34, 38, 42)
Turn to select a track or folder.
Turn to select a setting.
- 5 **Display** (pages 10, 42, 44, 54)
- 6 **IR Receptor** (page 48)
- 7 **Function buttons:**
AUDIO (pages 36, 43, 46)
VIDEO (pages 36, 43, 46)
USB (pages 24, 25, 36, 43)
Press to select a function.
- 8 **DISPLAY** (pages 43, 44)
Press to change the information on the display.
- 9 **GROOVE** (page 34)
Press to reinforce the bass.
- 10 **FLAT** (page 34)
SAMBA (page 34)
REGGAE (page 34)
HIP HOP (page 34)
TECHNO (page 34)
Press to select a preset effect.
- 11 **SPEAKERS** (page 40)
Press to select the speaker system.
- 12 **FRONT BEAM (Right)** (page 43)
- 13 **CHORUS** (pages 36, 48, 53)
AQUA (pages 36, 48, 53)
Press to select an effector mode.
- 14 **Power illuminator** (page 42)
- 15 **MIC (jack)** (pages 40, 47, 57)
Connect an optional microphone.
MIC LEVEL (pages 33, 40, 47)
Turn to adjust the microphone volume.
- 16 **BOTTOM BEAM (Right)** (page 43)
- 17 **Disc tray** (pages 16, 18, 49)
- 18 **BOTTOM BEAM (Left)** (page 43)
- 19 ** (USB) port** (pages 23, 24, 25, 51, 57)
Connect an optional USB device (Digital music player or USB storage media).
REC/ERASE (indicator) (pages 24, 26)
Lights up when recording from a disc onto the connected optional USB device (Digital music player or USB storage media).
Lights up when erasing MP3 audio tracks from the connected optional USB device (Digital music player or USB storage media).

Continued 

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- 20** PHONES (jack) (pages 37, 40, 47, 57)
Connect the headphones.
- 21** FLANGER (pages 35, 48, 53)
DELAY (pages 35, 48, 53)
Press to select an effector mode.
- 22** FRONT BEAM (Left) (page 43)
- 23** EQ BAND/MEMORY (page 34)
Press to select a frequency band when adjusting the graphic equalizer.
- 24** ROCK (page 34)
POP (page 34)
JAZZ (page 34)
DANCE (page 34)
Press to select a preset effect.
- USER EQ (page 34)
Press to select a user equalizer setting.
- 25** AMP MENU (page 42)
Press to change the spectrum analyser display, adjust the brightness of the display and built-in beam or change the power illuminator pattern.
- 26** BEAM MODE (page 43)
Press to change the lighting effect of a beam.
- 27** B PUSH ▲ OPEN/CLOSE (Deck B) (page 31)
Press to insert or eject a tape.
Deck B (pages 32, 42, 53)
- 28** A ▲ PUSH OPEN/CLOSE (Deck A) (page 31)
Press to insert or eject a tape.
Deck A (pages 31, 53)
- 29** ENTER (pages 17, 18, 21, 24, 26, 29, 35, 42, 43, 53)
Press to enter the selection.
- ERASE (page 24)
Press to erase MP3 audio tracks or folders on the connected optional USB device (Digital music player or USB storage media).
- RETURN (pages 18, 26)
Press to return to the parent folder.
- 30** X-ROUND ON/OFF (pages 36, 37)
Press to turn on or off the X-ROUND function.
- X-ROUND MODE (pages 36, 37)
Press to select an X-ROUND mode.
- MAX/JUMP MODE (page 37)
Press to select the way of creating "MAX" and "JUMP" effect.
- X-ROUND JOG (page 37)
Turn to change the sound movement or the speed of the sound movement.
- JUMP PAD (page 37)
Press to switch the sound position to the opposite direction instantly.
- MAX PAD (page 37)
Press to enhance the sound.
- 31** DISC SKIP/EX-CHANGE (pages 16, 18, 19, 21)
Press to select the next disc.
Press to exchange other discs during playback.
- ▲ OPEN/CLOSE (pages 16, 18, 49)
Press to load or eject a disc.
- DISC 1 ~ 3 (pages 19, 21)
Press to select a disc.
Press to switch to the CD function from the other functions.

32 **CD- SYNC/REC 1** (page 23)

Press to record from a disc onto the connected optional USB device (Digital music player or USB storage media).


Press to record a track from a disc onto the connected optional USB device (Digital music player or USB storage media).

TAPE REC PAUSE/START
(page 32)


Press to record onto a tape.

CD-TAPE SYNC (page 32)


Press to record a disc onto a tape.

33 **** (play/pause) (pages 18, 20, 23, 25, 31, 49, 52)

Press to start or pause playback.

 (stop) (pages 18, 24, 26, 29, 31, 33, 49, 53)


Press to stop playback or recording.

 (go forward/go backward) (pages 17, 18, 21, 24, 26, 32, 41, 53)


Press to select a track.

TUNING +/- (pages 29, 30)

Press to tune in a radio station.

 +/- (pages 18, 21, 24, 26, 32)

Press to select a folder.

 (rewind/fast forward)
(pages 18, 26, 31)

Press to find a point in a track or tape.

34 **BEAT ON/OFF** (page 38)

Press to turn on or off the rhythms of the beat.

BEAT LEVEL (page 38)

Press to adjust the beat level.

BEAT SPEED (page 39)

Press to change the beat speed.

BEAT PATTE RN (pages 39)

Press to select the rhythms of the beat.

BPM CONTROL (page 39)

Press to input the tempo of the audio source.

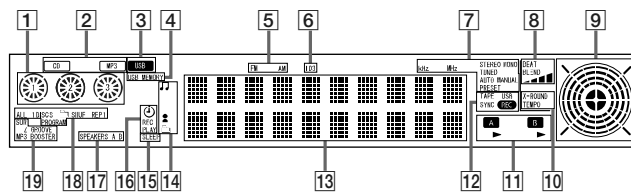
PAD A/PAD B (page 38)

Press to add percussion sound.

Continued 

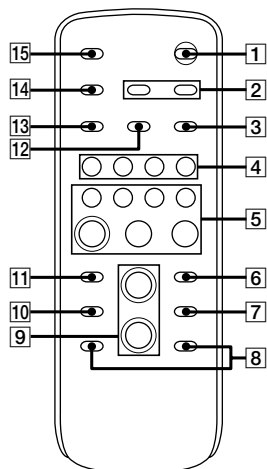
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– Display



- | | |
|---|---|
| <p>1 Indicators for the disc tray (page 18). “○” lights up when the disc is selected. “⊗” lights up when there is a disc on the disc tray.</p> <p>2 “MP3” lights up when an MP3 audio track is recognized. “CD” lights up when a disc is recognized.</p> <p>3 Lights up when the USB function is selected (page 25).</p> <p>4 Lights up when an optional USB device (Digital music player or USB storage media) is recognized.</p> <p>5 Indicators for the tuner band (page 29).</p> <p>6 Lights up when the MP3 audio track contains ID3 tag information.</p> <p>7 Indicators for the TUNER function (page 29).</p> <p>8 Indicators for the BEAT BLEND function (page 38).</p> <p>9 Indicators for the X-ROUND mode (page 36).</p> <p>10 Indicators for the X-ROUND function (page 36).</p> <p>11 Indicators for the TAPE function (page 31). “▶” lights up when there is a tape in the deck.</p> | <p>12 Indicators for the recording type (page 32).</p> <p>13 Displays the current status and information (page 44).</p> <p>14 Indicators for the information type of an MP3 audio track that displayed on 13 (page 44). “♪” lights up when a track name is displayed. “♫” lights up when an artist name is displayed. “□” lights up when a folder name is displayed.</p> <p>15 Lights up when the Sleep Timer is activated (page 41).</p> <p>16 Lights up when the Play Timer or Recording Timer is set (page 41).</p> <p>17 Indicators for the speaker system (page 40).</p> <p>18 Indicators for the selected play mode (page 20).</p> <p>19 Indicators for the activated sound effect (pages 34, 35).</p> |
|---|---|


Remote

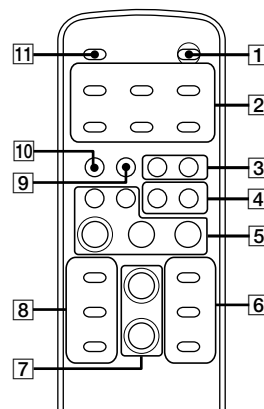



- 1** **I/O** (on/standby) (pages 15, 17, 47)
Press to turn the system on or off.
- 2** **CLOCK/TIMER SELECT** (page 42)
CLOCK/TIMER SET (pages 17, 41)
Press to set the clock and the timers.
- 3** **REPEAT/FM MODE** (pages 22, 30, 52)
Press to change the Repeat Play setting.
Press to select the FM monaural or stereo reception.






- 4** **USB** (page 25)
Press to select the USB function.
- CD** (page 18)
Press to select the CD function.
- TUNER/BAND** (page 29)
Press to select the TUNER function.
Press to select FM or AM band.
- FUNCTION** (pages 18, 29, 43, 46)
Press to select a function.
- 5** **◀◀/▶▶** (go backward/go forward) (pages 18, 21, 24, 26, 32, 41, 53)
Press to select a track.
Press to adjust the time when setting the clock or timer.
- +/-** (tuning) (pages 29, 30)
Press to tune in a radio station.
- ◀◀/▶▶** (rewind/fast forward) (pages 18, 26, 31)
Press to find a point in a track or tape.
- ▶** (play) (pages 18, 23, 31, 49, 52)
- ||** (pause) (pages 18, 31)
Press to start or pause playback.
- (stop) (pages 18, 29, 31)
Press to stop playback or recording.
- 6** **ENTER** (pages 17, 24, 26, 29, 35, 41)
Press to enter the selection.

Continued

- 7** DISC SKIP (pages 16, 18, 19, 21)
Press to select the next disc.
- 8**  +/- (pages 18, 21, 24, 26, 32)
Press to select a folder.
- 9** VOLUME +/-* (pages 18, 25, 42, 47)
Press to adjust the volume.
- * The VOLUME + button has a tactile dot.
Use the tactile dot as a reference when operating the system.
- 10** EQ (page 34)
Press to select a preset effect.
- 11** CLEAR (page 22)
Press to delete a programmed step.
- 12** PLAY MODE/TUNING MODE (pages 20, 29, 30)
Press to select the play mode of CD or USB function.
Press to select the tuning mode.
- 13** TUNER MEMORY (page 29)
Press to preset a radio station.
- 14** DISPLAY (pages 43, 44)
Press to change the information on the display.
- 15** SLEEP (page 41)
Press to activate the Sleep Timer.

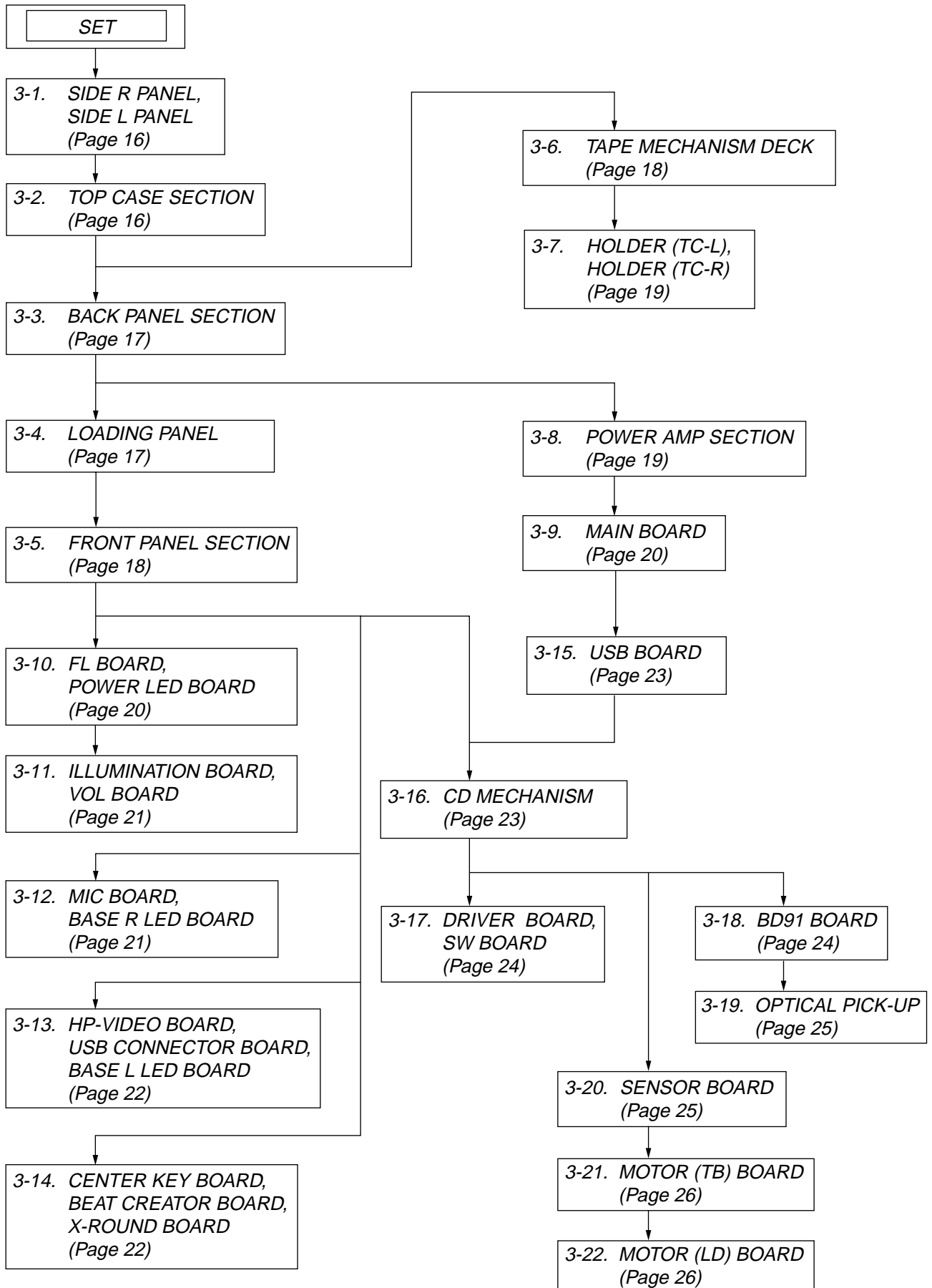
X-TRANCE PRO Remote

- 1**  (on/standby) (pages 15, 17, 47)
Press to turn the system on or off.
- 2** X-ROUND ON/OFF (pages 36, 37)
Press to turn on or off the X-ROUND function.
- MAX PAD (page 37)
Press to enhance the sound.
- JUMP PAD (page 37)
Press to switch the sound position to the opposite direction instantly.
- X-ROUND MODE (pages 36, 37)
Press to select an X-ROUND mode.
- X-ROUND +/- (page 37)
Press to change the sound movement or the speed of the sound movement.

- 3** PAD A (page 38)
PAD B (page 38)
Press to add percussion sound.
- 4** FRONT BUILT-IN BEAM (page 43)
BOTTOM BUILT-IN BEAM (page 43)
Press to change the lighting effect of the beam.
- 5**   (go backward/go forward) (pages 18, 53)
Press to select a track.
- +/- (tuning) (page 29)
Press to tune in a radio station.
-  (play) (page 18)
 (pause) (pages 18, 31)
Press to start or pause playback.
-  (stop) (pages 18, 29, 31)
Press to stop playback or recording.
- 6** BEAT LEVEL (page 38)
Press to adjust the beat level.
- BEAT PATT ERN + (pages 39)
BEAT PATT ERN – (pages 39)
Press to select the rhythms of the beat.
- 7** VOLUME +/-* (pages 18, 25, 42, 47)
Press to adjust the volume.
- * The VOLUME + button has a tactile dot. Use the tactile dot as a reference when operating the system.
- 8** BEAT ON/OFF (page 38)
Press to turn on or off the rhythms of the beat.
- BEAT SPEED + (page 39)
BEAT SPEED – (page 39)
Press to change the beat speed.
- 9** GROOVE (page 34)
Press to reinforce the bass.
- 10** SOUND EFFECT (page 36)
Press to select an effector mode.
- 11** FUNCTION (pages 18, 29, 43, 46)
Press to select a function.

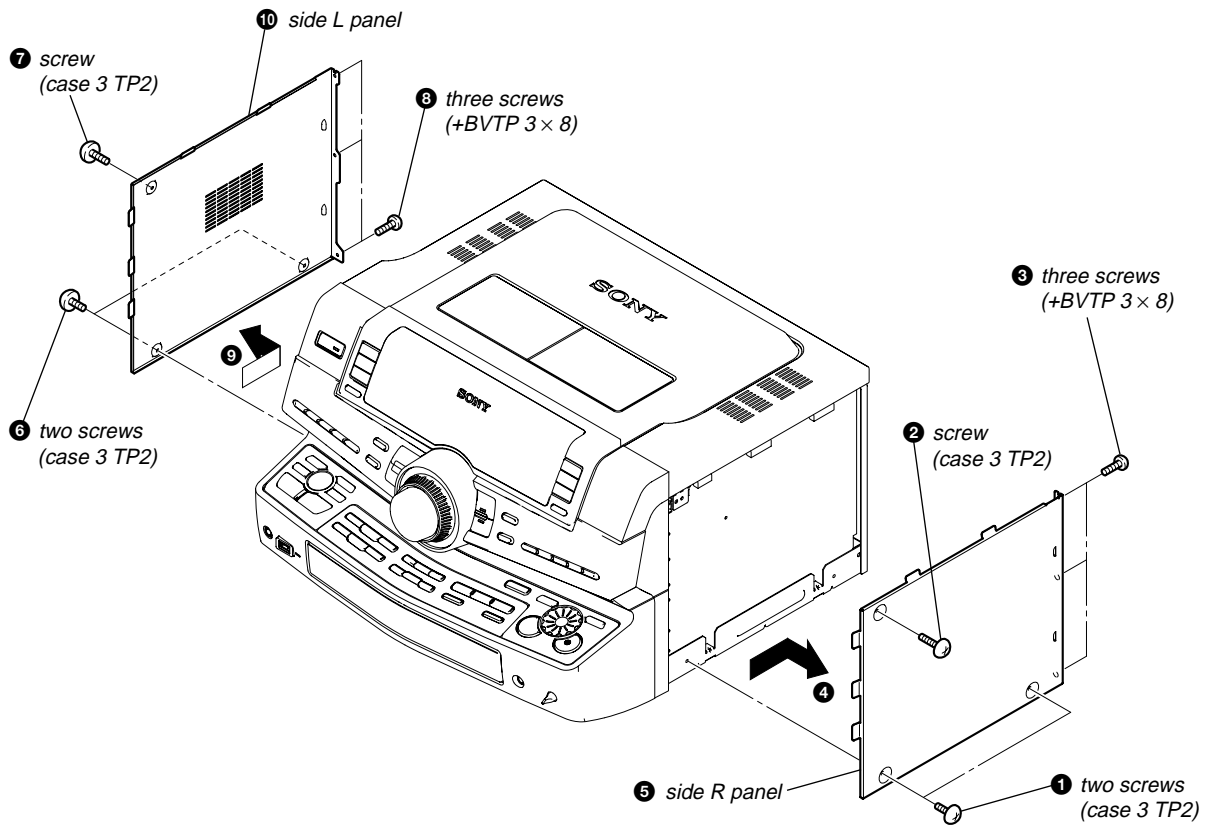
SECTION 3 DISASSEMBLY

Note: Disassemble the unit in the order as shown below.

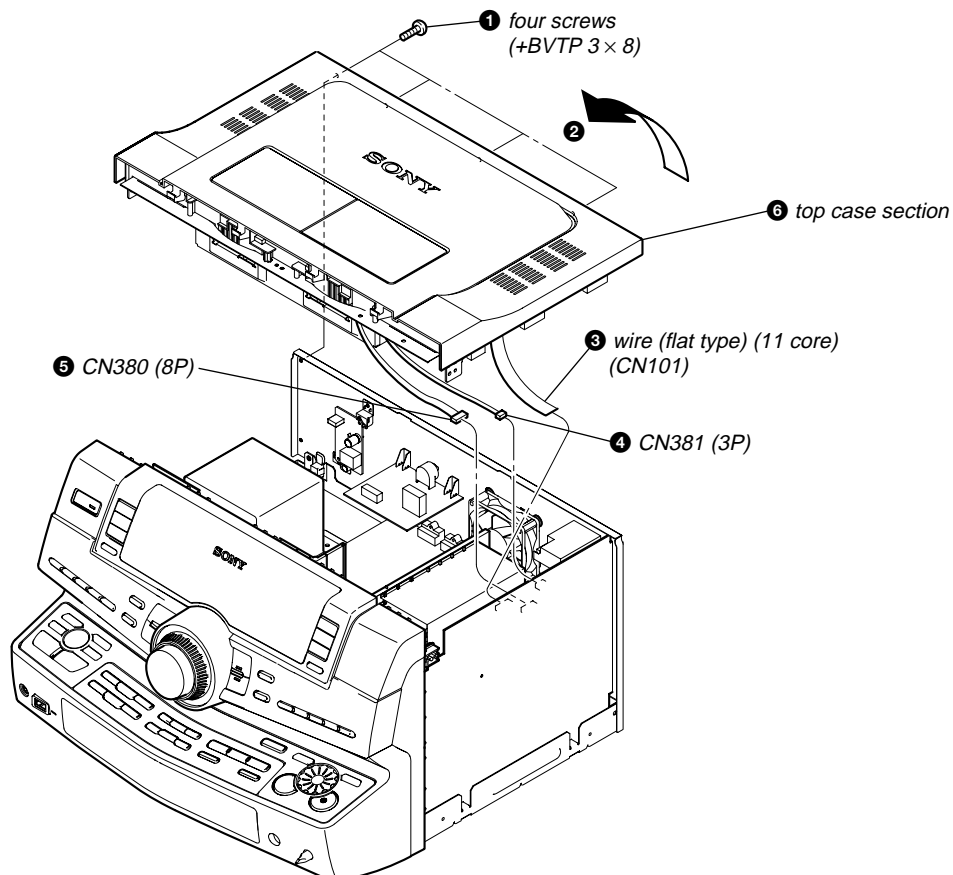


Note: Follow the disassembly procedure in the numerical order given.

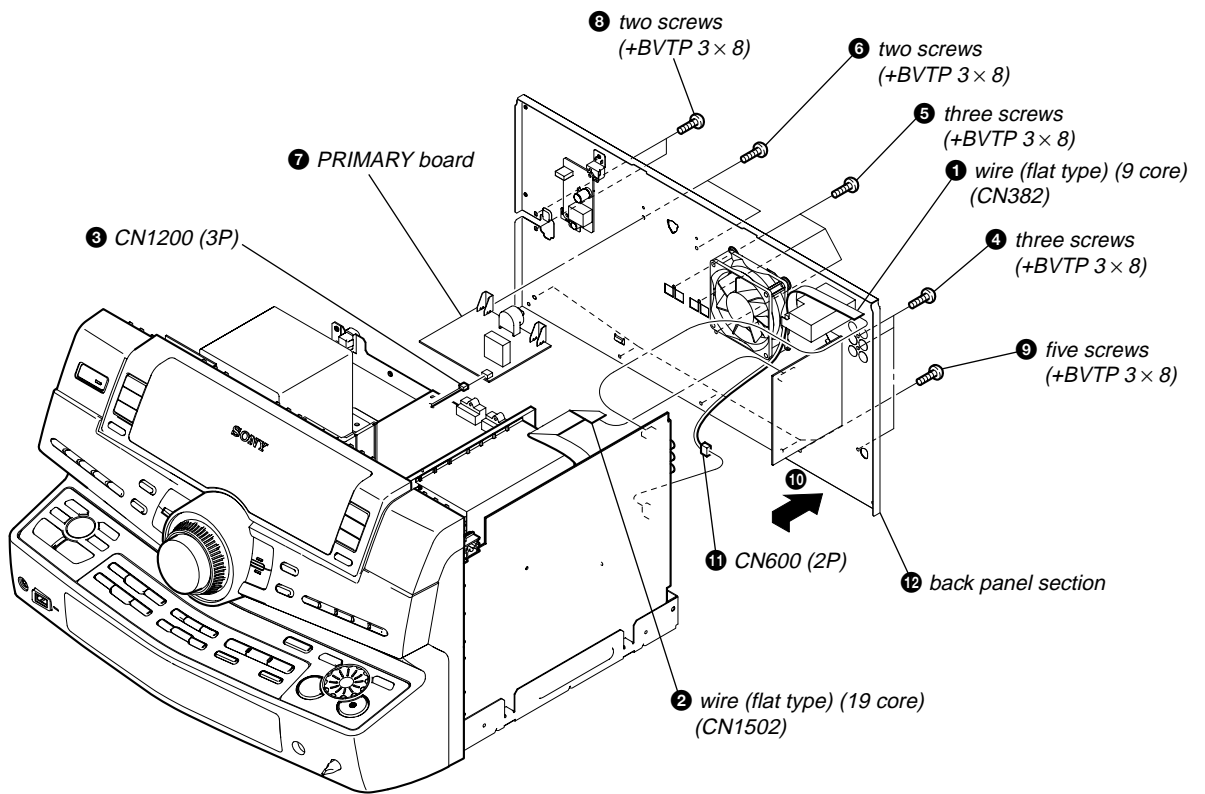
3-1. SIDE R PANEL, SIDE L PANEL



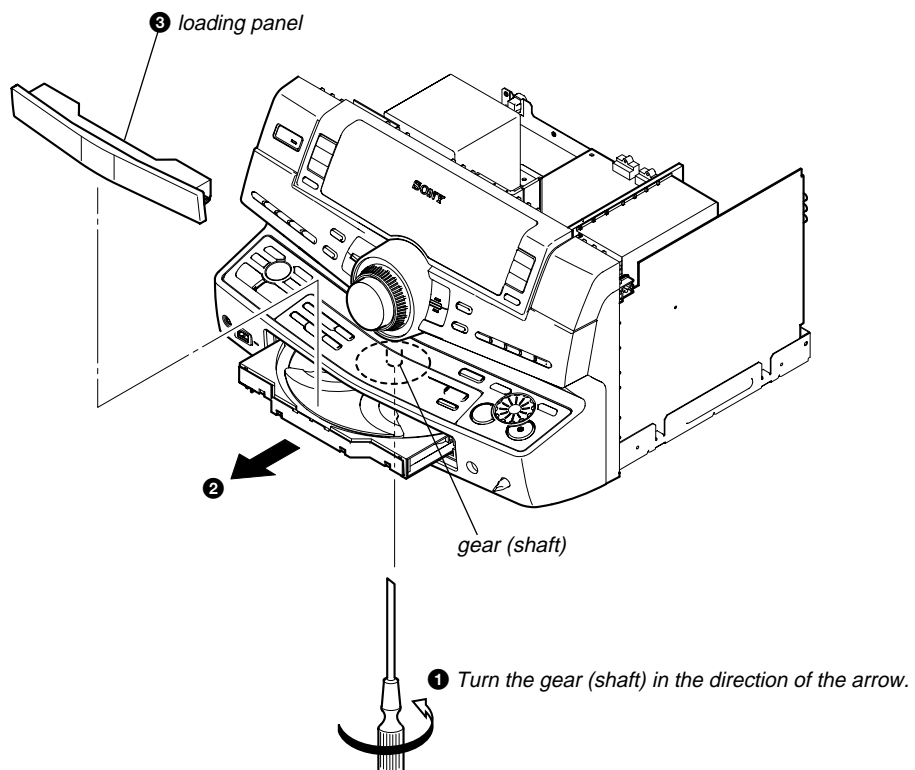
3-2. TOP CASE SECTION



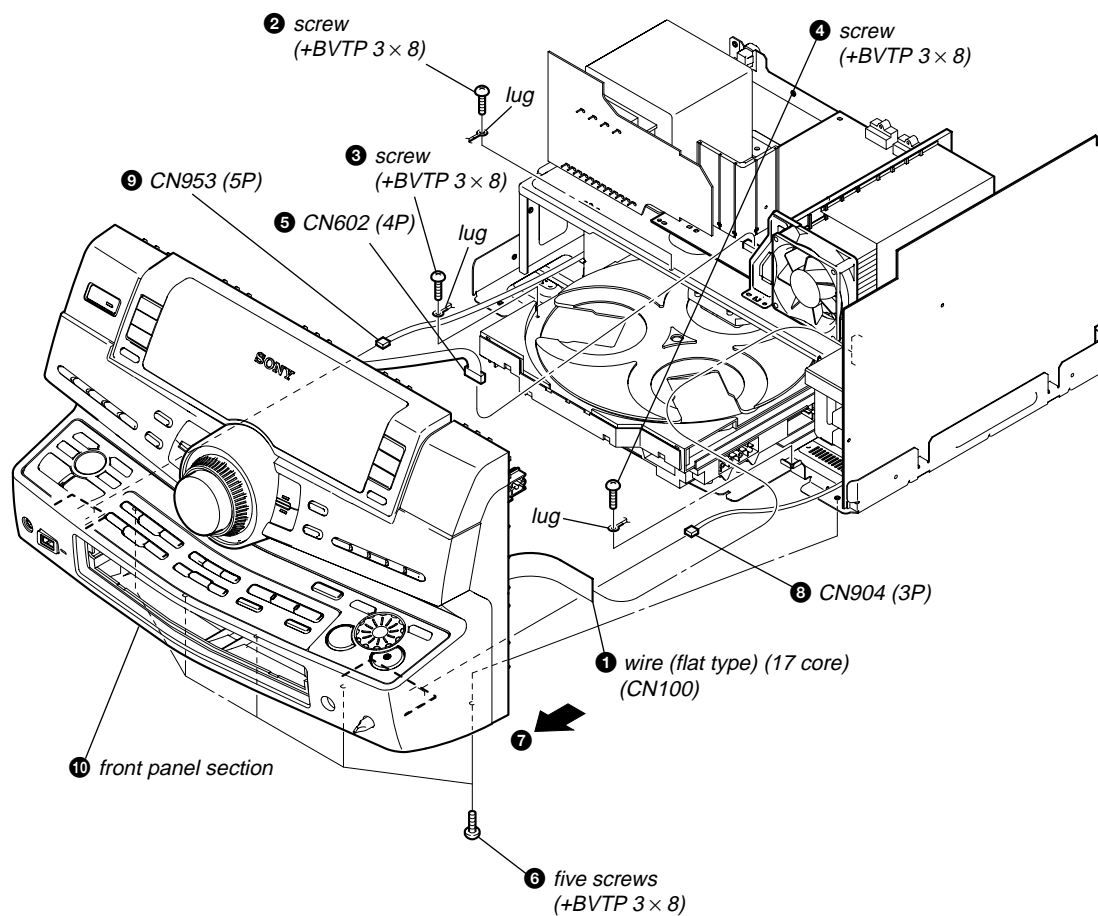
3-3. BACK PANEL SECTION



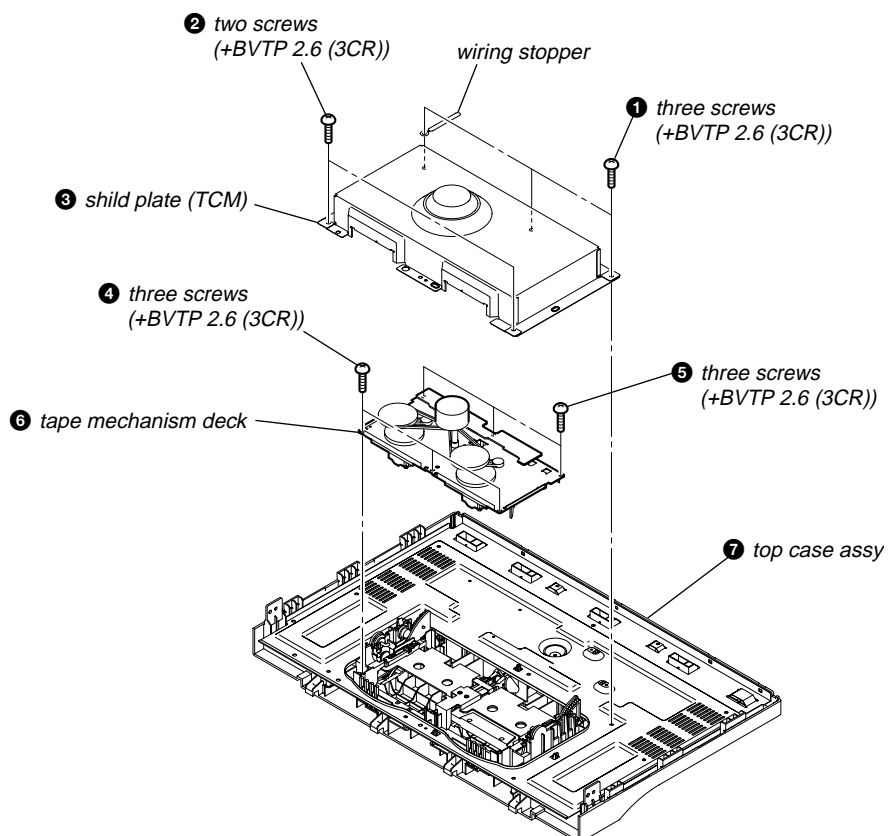
3-4. LOADING PANEL



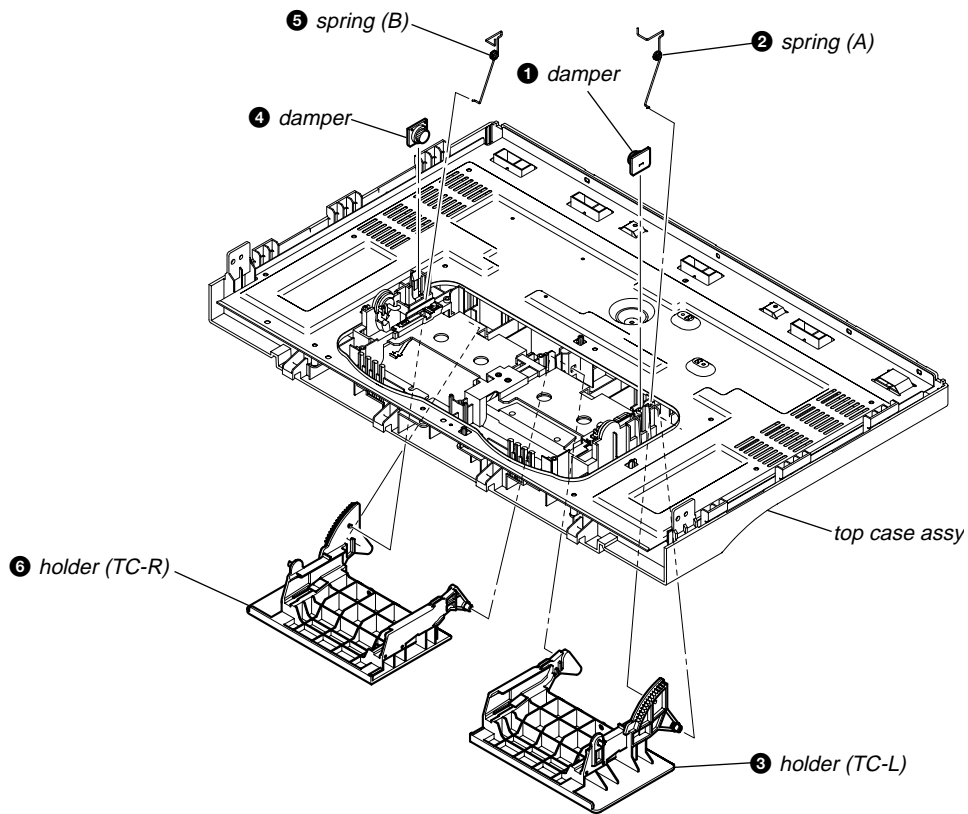
3-5. FRONT PANEL SECTION



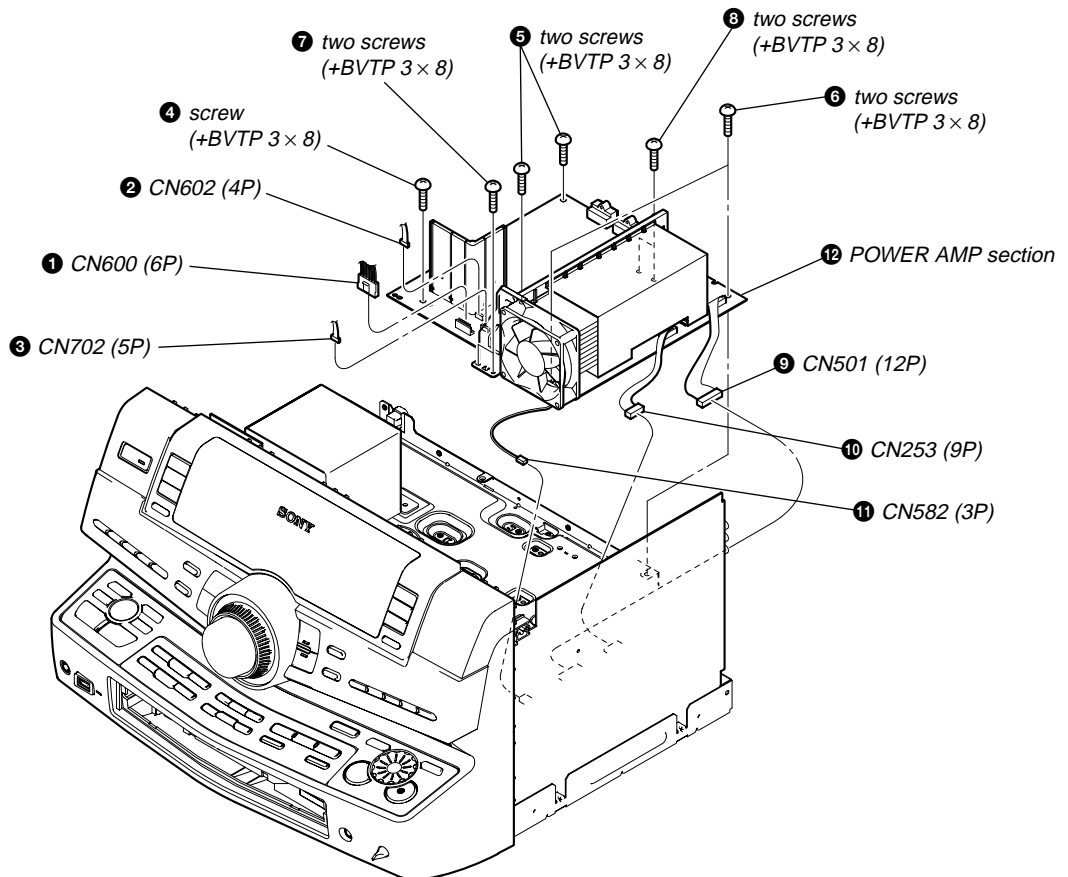
3-6. TAPE MECHANISM DECK



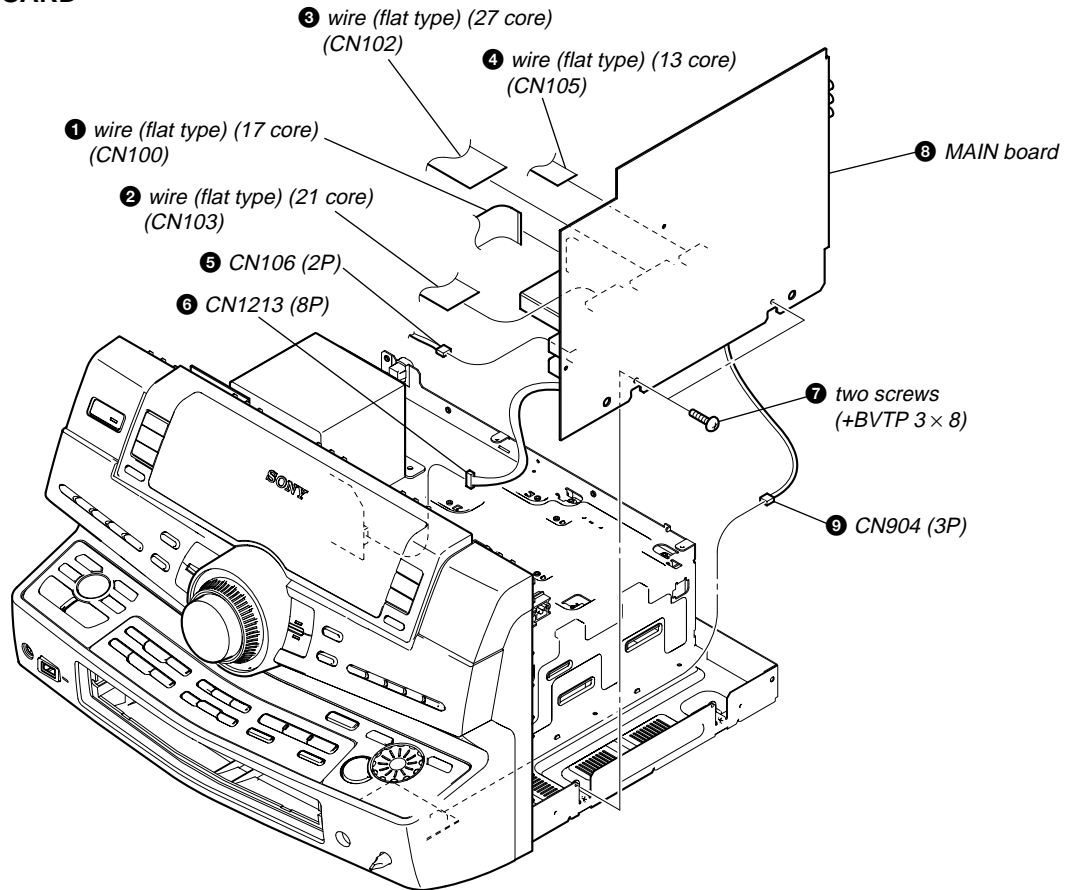
3-7. HOLDER (TC-L), HOLDER (TC-R)



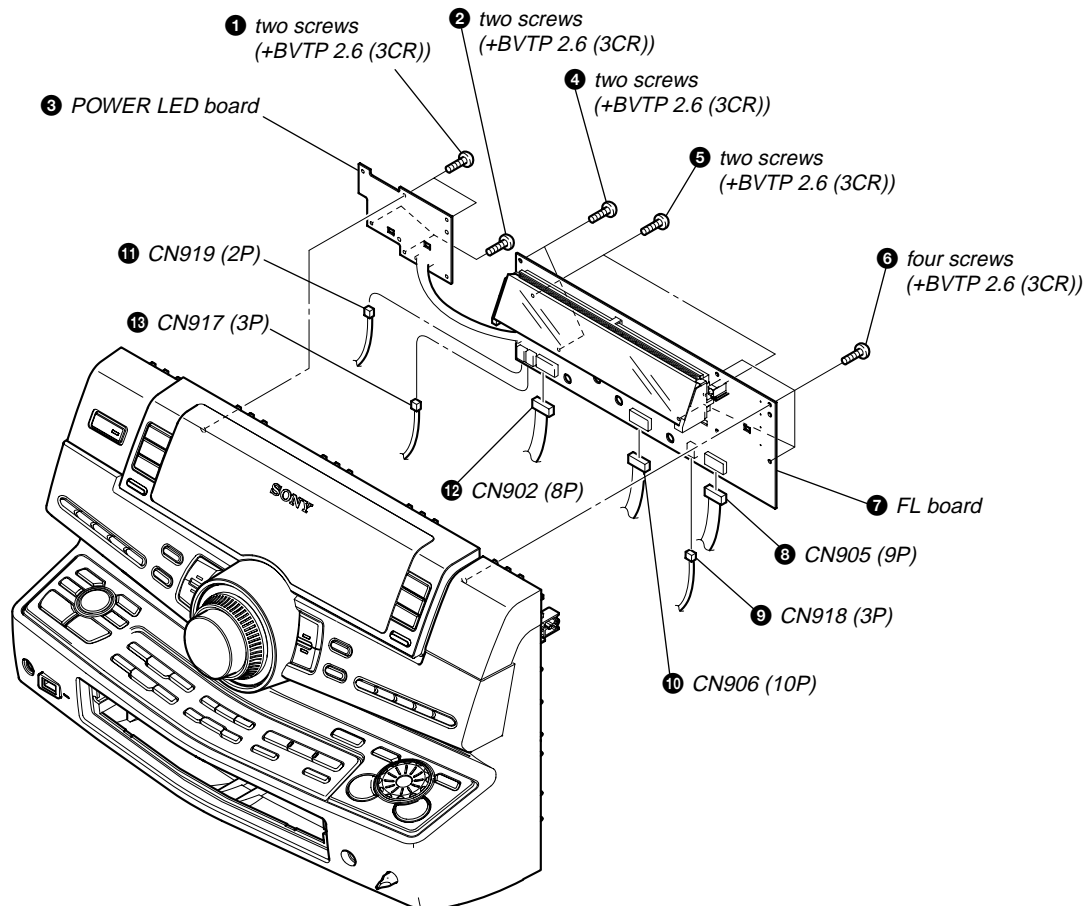
3-8. POWER AMP SECTION



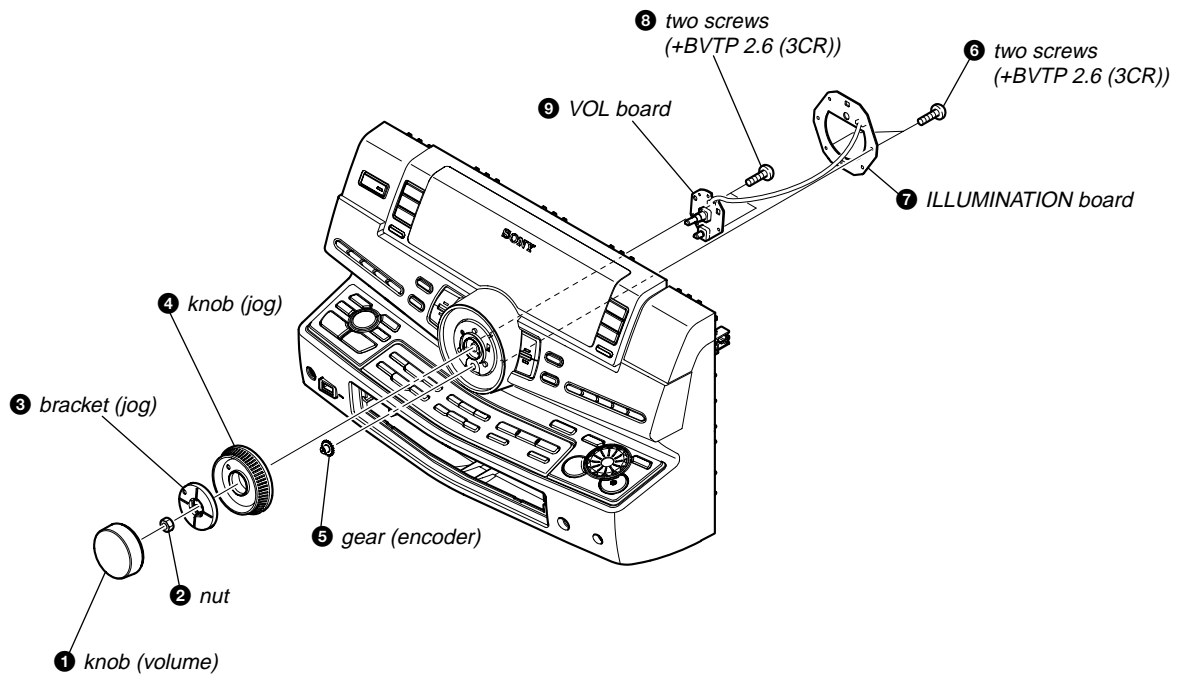
3-9. MAIN BOARD



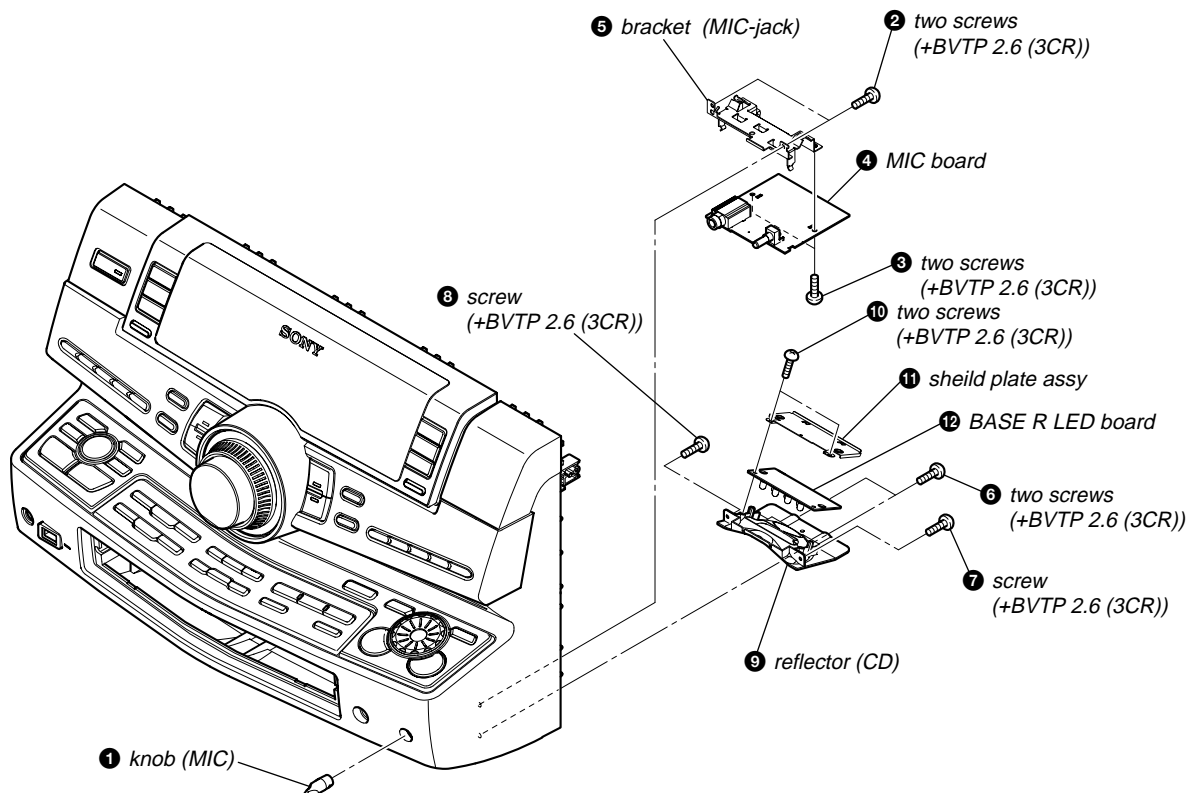
3-10. FL BOARD, POWER LED BOARD



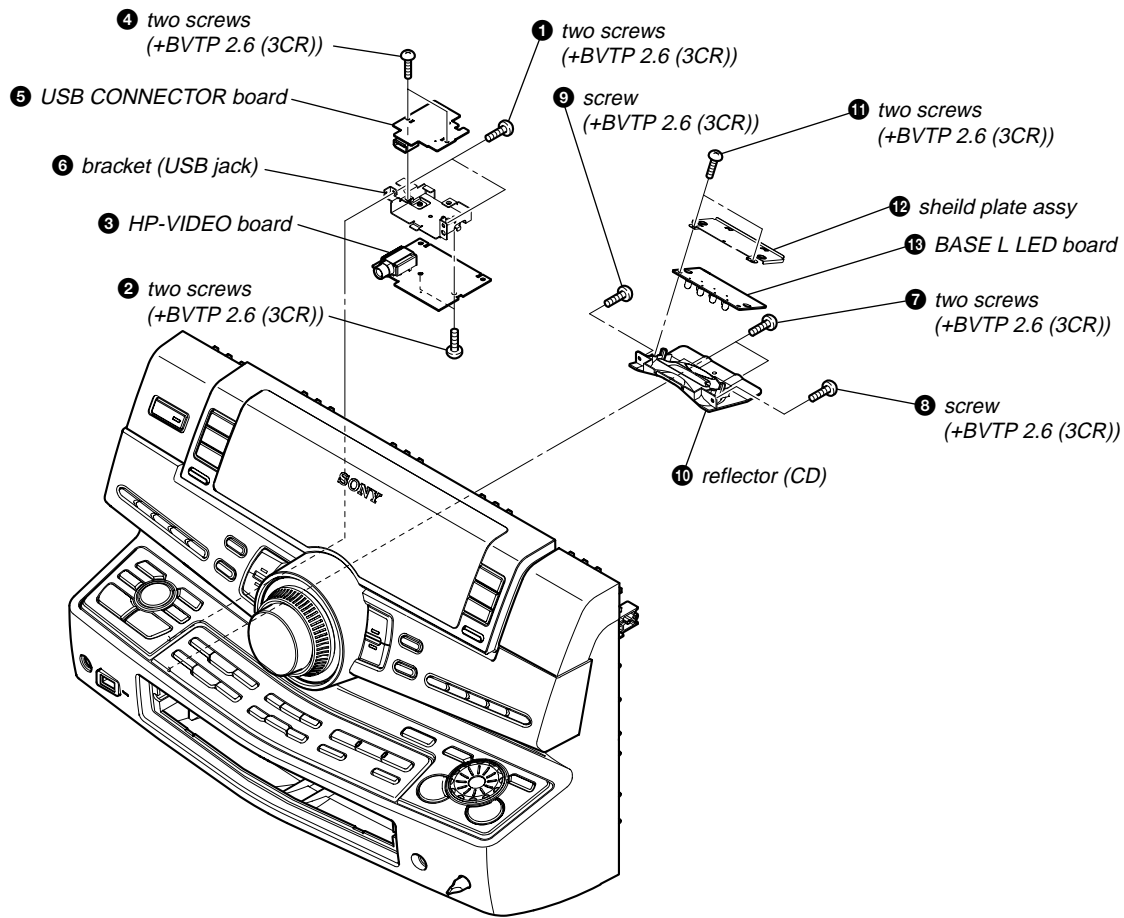
3-11. ILLUMINATION BOARD, VOL BOARD



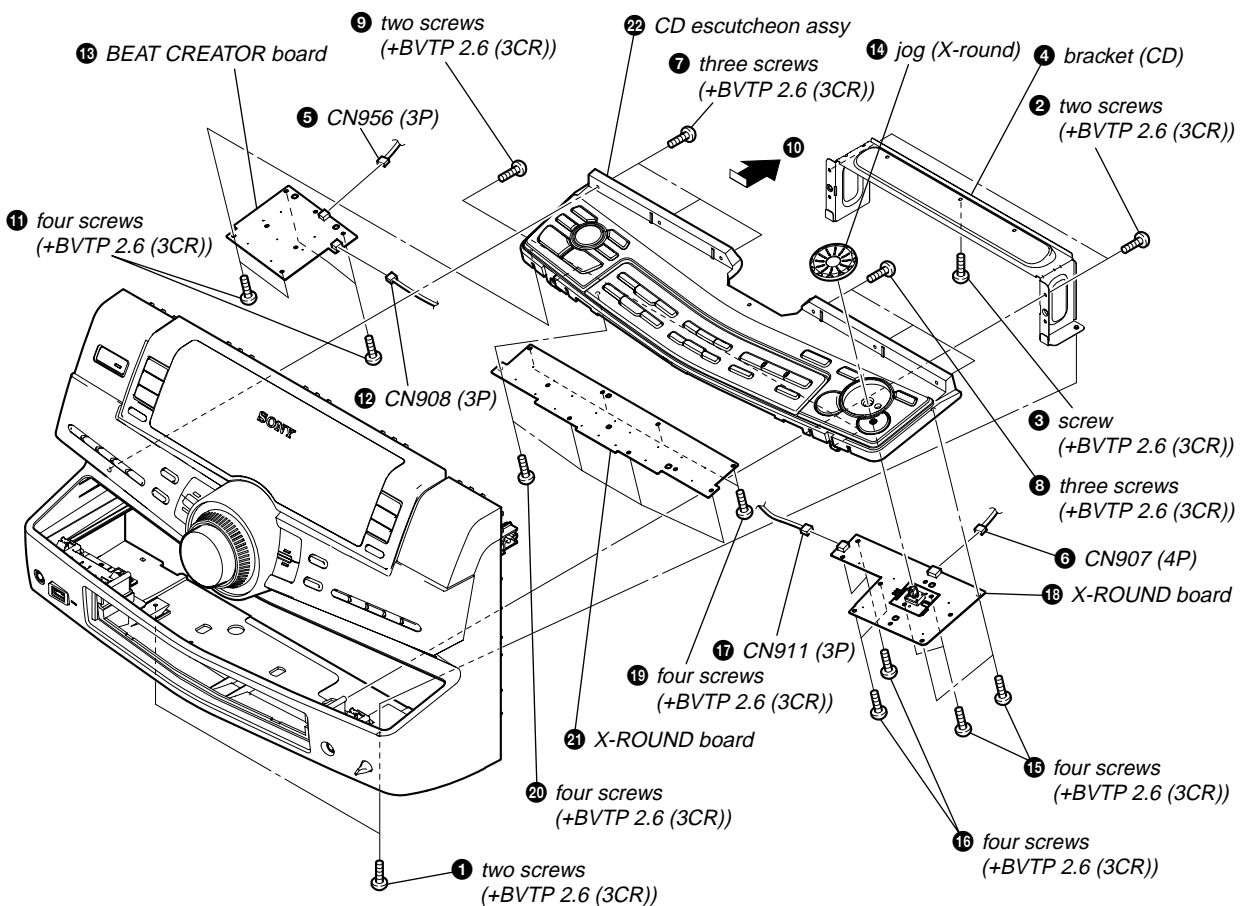
3-12. MIC BOARD, BASE R LED BOARD



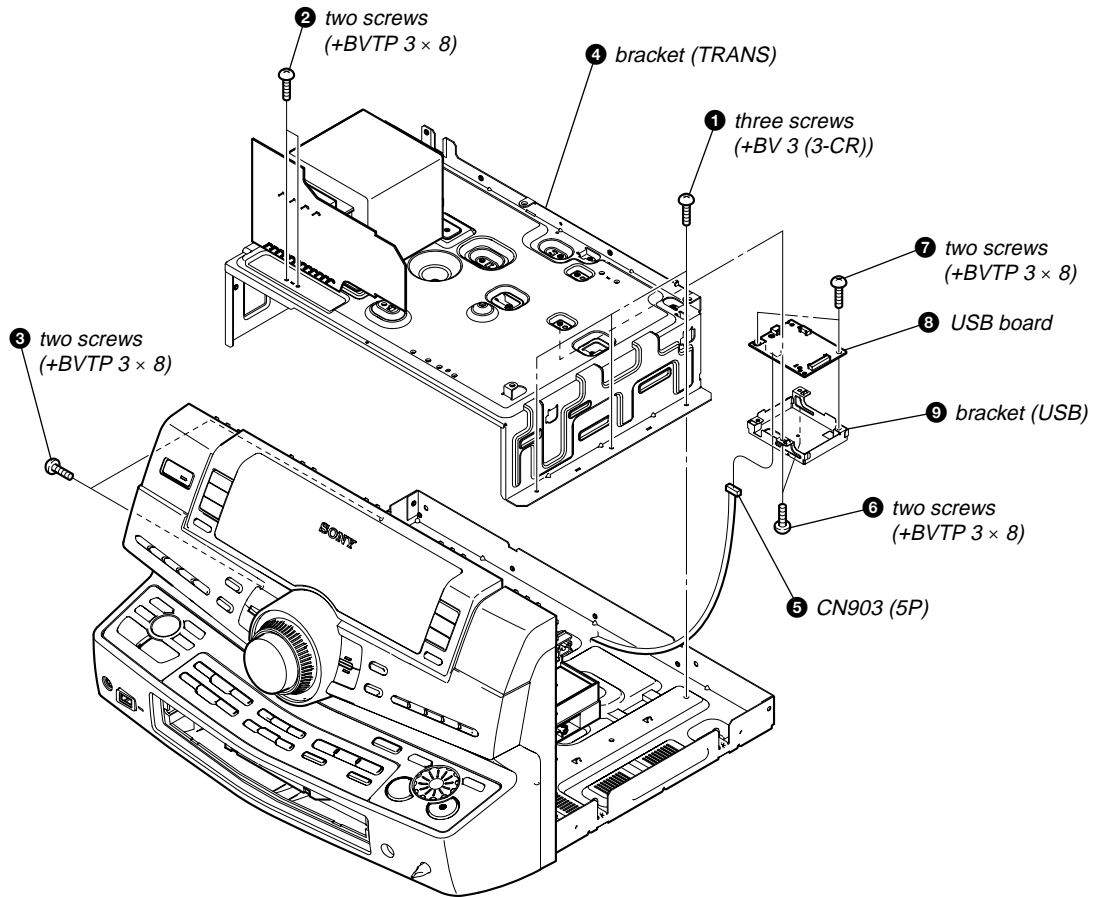
3-13. HP-VIDEO BOARD, USB CONNECTOR BOARD, BASE L LED BOARD



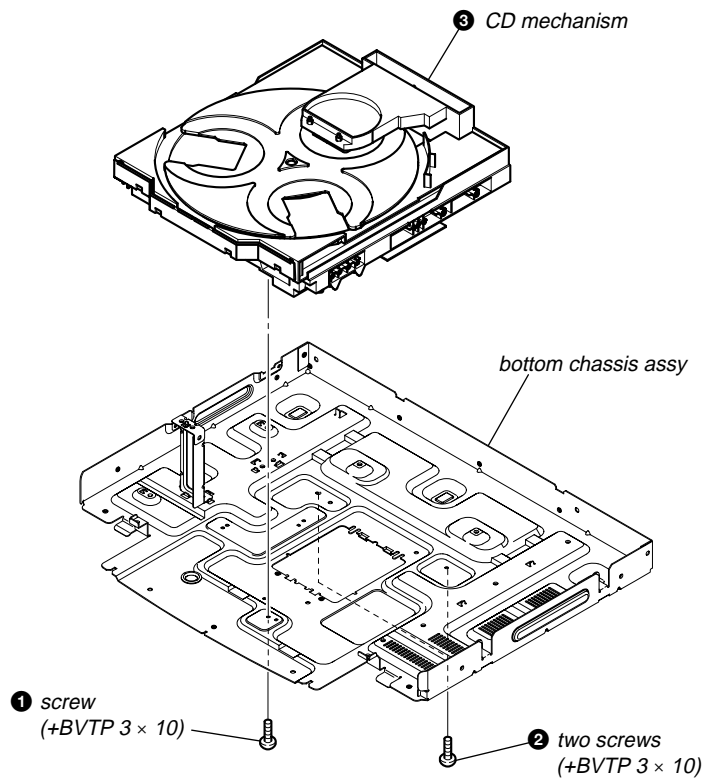
3-14. CENTER KEY BOARD, BEAT CREATOR BOARD, X-ROUND BOARD



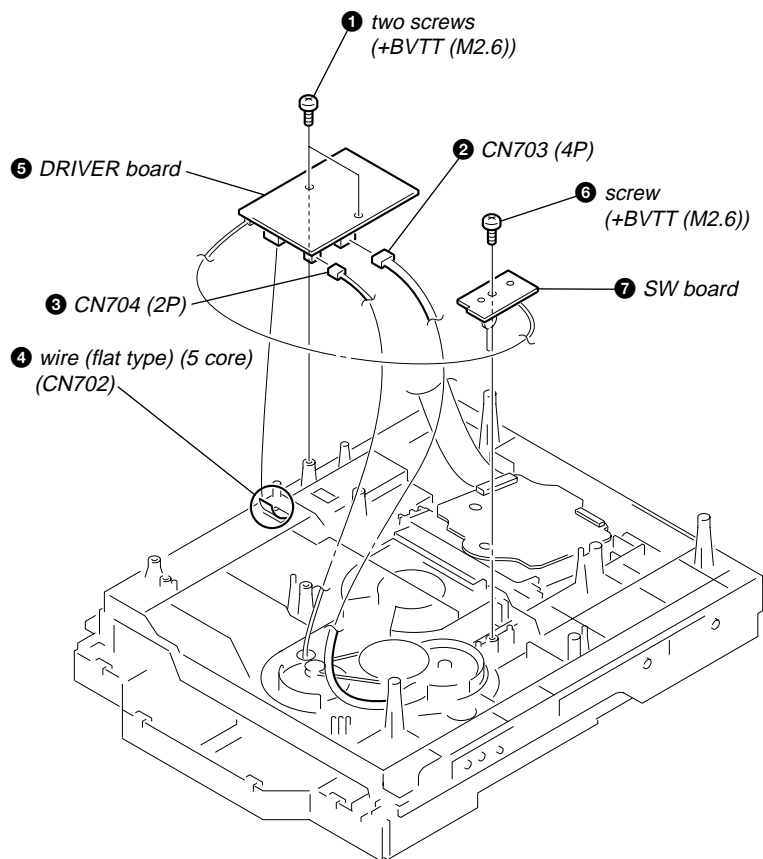
3-15. USB BOARD



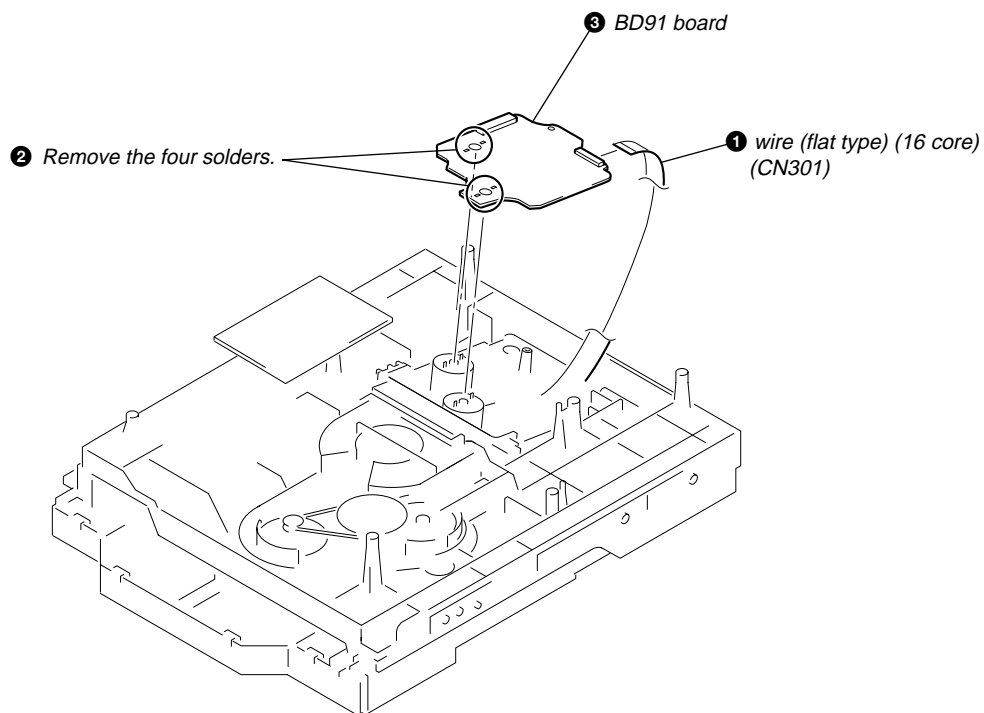
3-16. CD MECHANISM



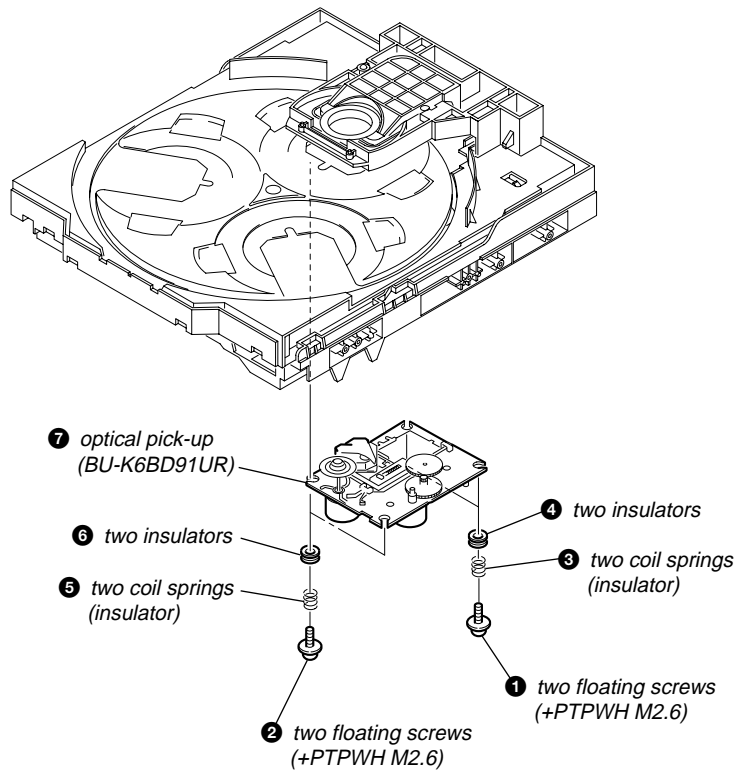
3-17. DRIVER BOARD, SW BOARD



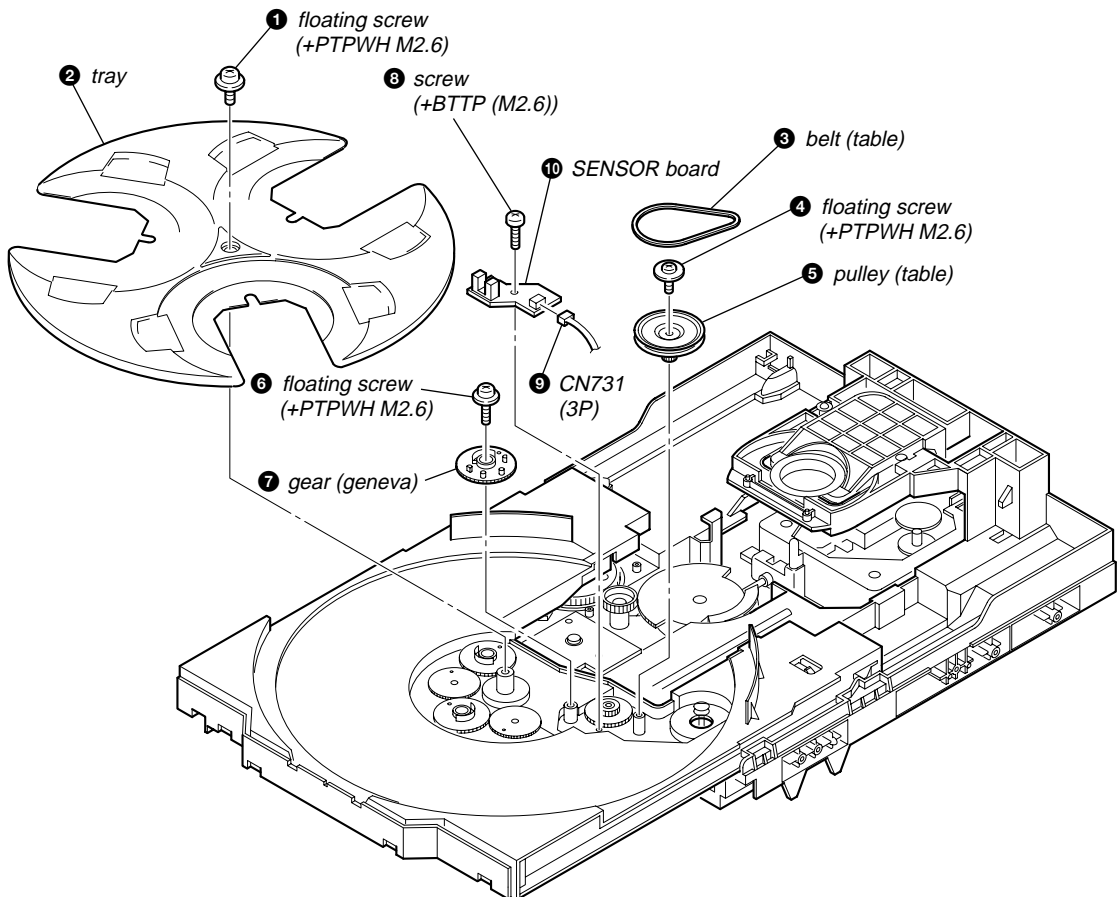
3-18. BD91 BOARD



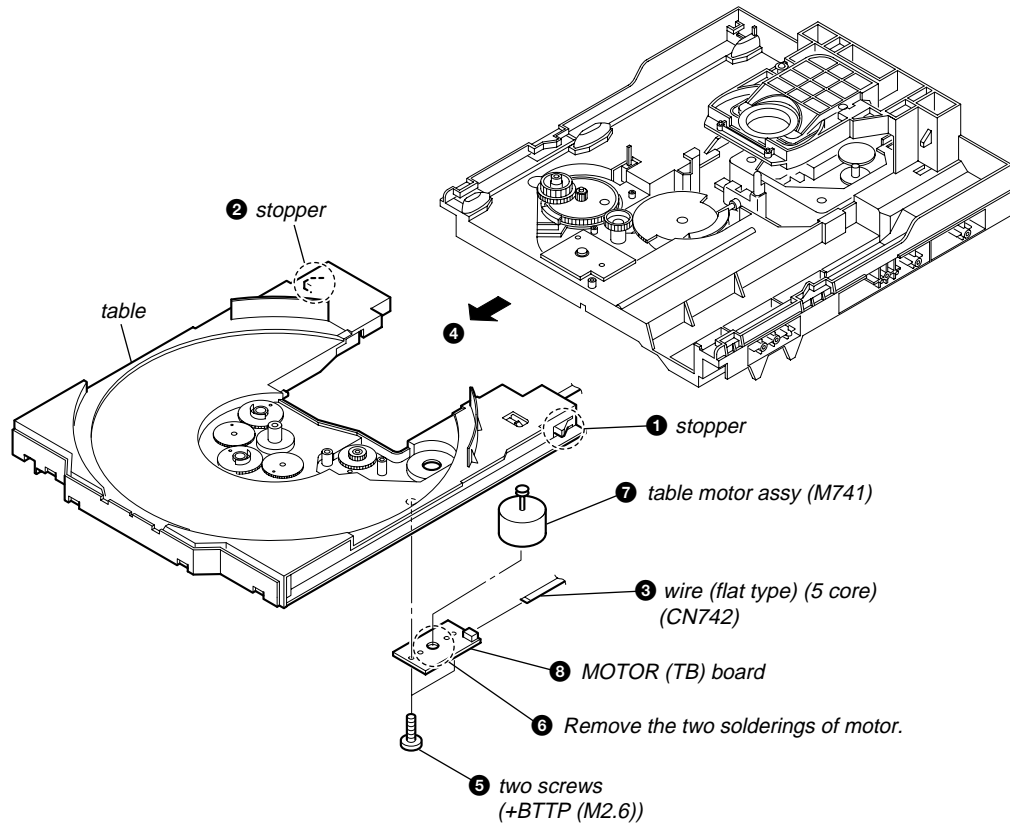
3-19. OPTICAL PICK-UP



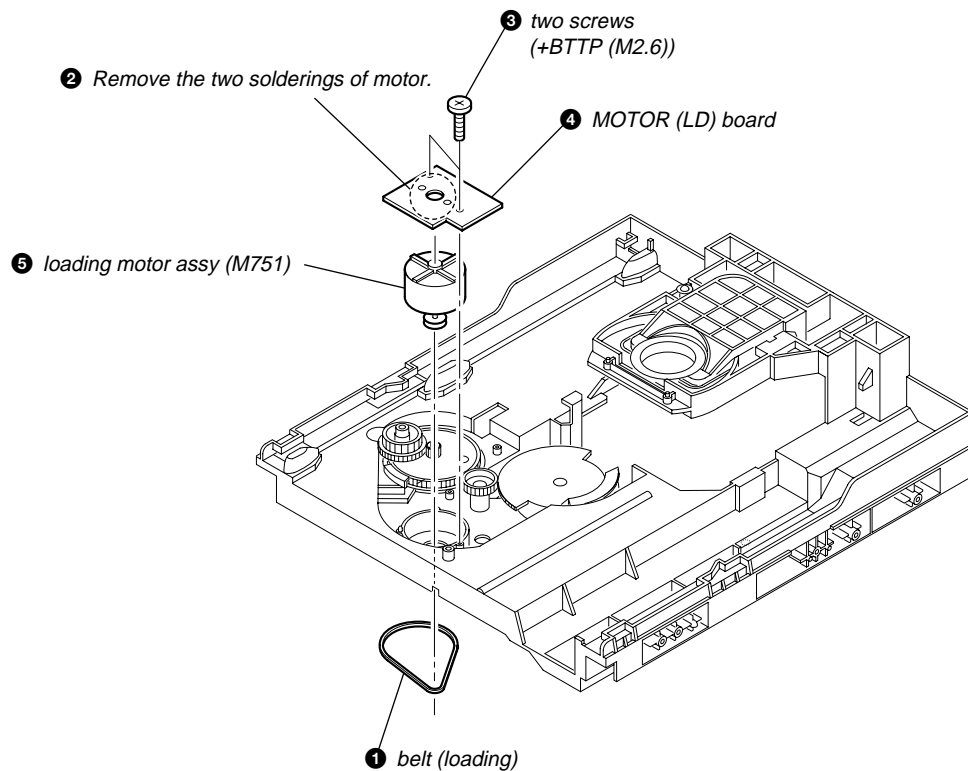
3-20. SENSOR BOARD



3-21. MOTOR (TB) BOARD



3-22. MOTOR (LD) BOARD



SECTION 4 TEST MODE

[GC TEST MODE]

- This mode is used to check the fluorescent indicator tube, LEDs, keys, [MASTER VOLUME] jog, [OPERATION DIAL] jog, [X-ROUND] jog, model, destination and software version.

Procedure:

- Press **[I/O]** button to turn on the system.
- Press **[■]** button, **[ENTER]** button and **[DISC 2]** button simultaneously.
- All LEDs and segments in fluorescent indicator tube are lighted up. All LEDs are lighted. The POWER LED is lighted up in red color if the system is turned off/on.
- When you want to enter to the software version display mode, press **[DISC 1]** button. The model and destination are displayed.
- During model and destination information display, press **[DISC 1]** button. Each time **[DISC 1]** button is pressed, the fluorescent indicator tube shows the version and the software creation date of each category software in the following sequence: 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, MM1 version, MM2 version (USB Micom) and return back to model and destination information display.
- Press **[DISC 2]** button, the key check mode is activated.
- In the key check mode, the fluorescent indicator tube displays "K 0 J0 V0 X0".
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 **[MASTER VOLUME]** knob is turned clockwise, or it decreases in the manner of 0, 9, 8,7 ... if **[MASTER VOLUME]** knob is turned counterclockwise.
"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 counterclockwise.
"X" value increases in the manner of 0,1, 2, 3 ... if **[X-ROUND]** knob is turned clockwise, or it decreases in the manner of 0, 9, 8,7 ... if **[X-ROUND]** knob is turned counterclockwise.
- When **[DISC SKIP/EX-CHANGE]** button is pressed after all LEDs and segments in fluorescent indicator tube light up, alternate segments in fluorescent indicator tube and LEDs would light up. If you press **[DISC SKIP/EX-CHANGE]** button again, another half of alternate segments in fluorescent indicator tube and LEDs would light up. Pressing **[DISC SKIP/EX-CHANGE]** button again would cause all segments in fluorescent indicator tube and LEDs light up.
- To release from this mode, press three buttons in the same manner as step 2, or disconnect the power cord.

[MC TEST MODE]

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

Procedure:

- To enter MC Test Mode
 - Press **[■]** button, **[ENTER]** button and **[DISC 3]** button simultaneously.
 - The disc number indicators and TAPE A and B indicators flash on the fluorescent indicator tube. The function is changed to VIDEO and the volume is changed to VOLUME MIN/MAX.

• Check of Amplifier

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

• Tape function

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

• To release from Common Test mode

- To release from this mode, press **[I/O]** button.
- The cold reset is enforced at the same time.

[COLD RESET]

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

Procedure:

- Press **[I/O]** button to turn on the system.
- Press **[■]** button, **[ENTER]** button, and **[I/O]** button simultaneously.
- "COLD RESET" appears on the fluorescent indicator tube. After that, the fluorescent indicator tube becomes blank for a while, and the system is reset.

[VACS ON/OFF]

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

Procedure:

- Press **[I/O]** button to turn on the system.
- Press **[■]** button and **[BEAM MODE]** 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. This mode is not available for Saudi Arabian and Russian models.

Procedure:

- Press **[I/⏻]** button to turn on the system.
- Press **[TUNER/BAND]** button repeatedly to select the "AM".
- Press **[I/⏻]** button to turn off the system.
- Press **[ENTER]** button and **[I/⏻]** button simultaneously. The system turns on automatically. The message "AM 9K STEP" or "AM 10K STEP" appears on the fluorescent indicator tube and thus the channel step is changed.

[CD SERVICE MODE]

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

Procedure:

- Press **[I/⏻]** button to turn on the system.
- Press **[CD]** button to select CD function.
- Press **[■]** button, **[ENTER]** button, and **[OPEN/CLOSE]** button simultaneously.
- The CD service mode is activated. The message "SERVICE MODE" appears on the fluorescent indicator tube.
- With the disc in stop status, press **[▶▶/⏏+]** button to move the optical pick-up to outside track, or press **[◀◀/⏏-]** button to move to inside track. The message "SLED OUT" or "SLED IN" appears on the fluorescent indicator tube.
- To turn on or off the laser, press **[FLANGER]** button. The message "LD ON" or "LD OFF" appears on the fluorescent indicator tube.
- To release from this mode, press **[I/⏻]** button.

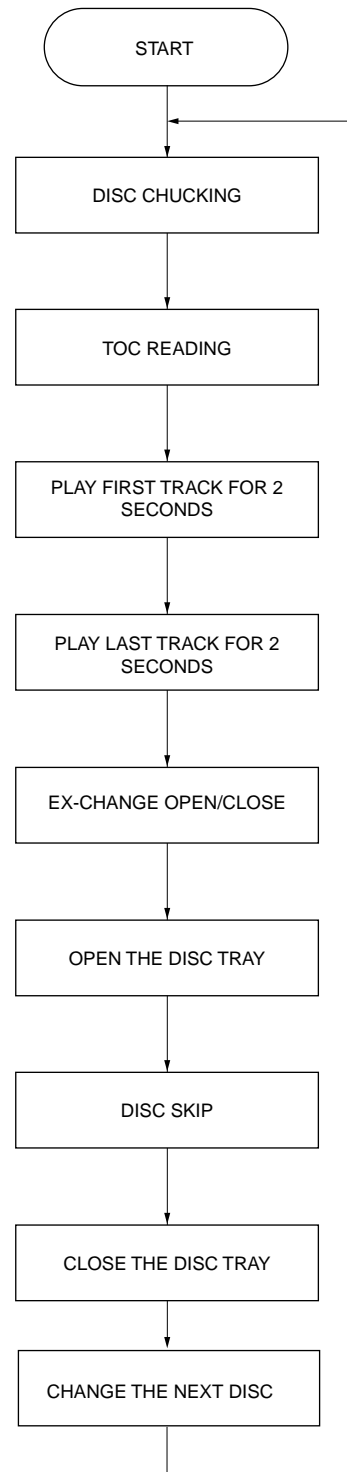
[CD AGING MODE]

- 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 were no error occurs, the aging operation would continue repeatedly.

Procedure:

- Press **[I/⏻]** button to turn on the system.
- Select CD function.
- Load three discs on the disc tray.
- Press **[PLAY MODE/TUNING MODE]** button on the remote repeatedly to select the "ALL DISCS" mode, and press the **[REPEAT/FM MODE]** button on the remote repeatedly to select "REPEAT OFF" mode.
- Press **[■]** button, **[ENTER]** button and **[DISC SKIP/EX-CHANGE]** button simultaneously.
- Aging operation is started.
- To release from this mode, press **[I/⏻]** button or disconnect the power cord to turn off the system.

• Aging mode sequence:

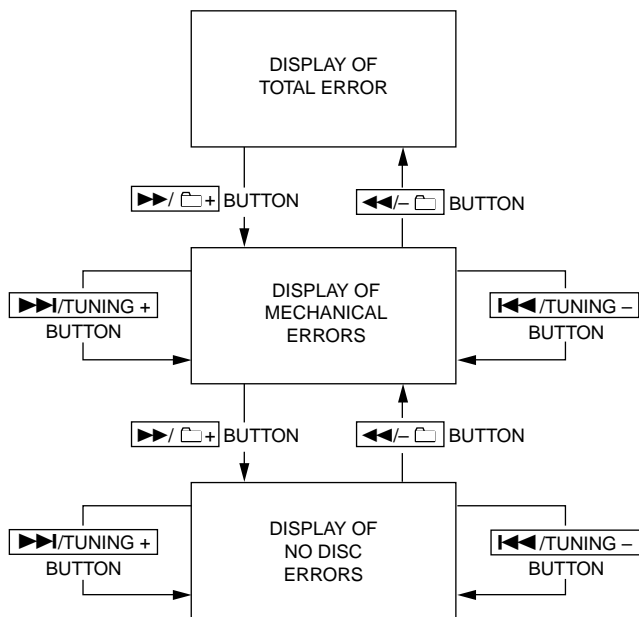


[CD ERROR CODE MODE]

- Display the CD error code when an error occurred

Procedure:

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



5. To clear the error record, operate the cold reset. (Refer to the "COLD RESET")
6. To release from this mode, press the button or disconnect the power plug to turn off the system.

- Display of total error

DISPLAY
Em**Ed**

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

- Display of mechanical errors

DISPLAY
M*\$%&##00

M* : The number of mechanical error ("0" is latest one)
(Press button to display the 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 down.
03 : Time-out of EX-CHANGE open.
05 : Time-out of EX-CHANGE close.
: Not used

- Display of no disc errors

DISPLAY
D*\$%&##00

D* : The number of no disc error ("0" is latest one)
(Press button 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)

- To release from this mode, press button.

[CD REPEAT 5 LIMIT OFF MODE]

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

Procedure:

1. Press button to turn on the system.
2. Select CD function.
3. Press button, button and button simultaneously to enter the CD repeat 5 limit off mode and the fluorescent indicator tube displays "LIMIT OFF".

- To release from this mode, operate the cold reset. (Refer to the "COLD RESET").

[CD SHIP MODE (WITH MEMORY CLEAR)]

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

Procedure:

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

[CD SHIP MODE (WITHOUT MEMORY CLEAR)]

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

Procedure:

- Press **[I/⏻]** button to turn on the system.
- Select CD function.
- Press **[CD]** button and **[I/⏻]** button simultaneously. The system turns off automatically.
- After the "STANDBY" blinking display finishes, a message "MECHA LOCK" is displayed on the fluorescent indicator tube and the CD ship mode is set.

[CD/USB POWER MANAGE]

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

Procedure:

- Press **[I/⏻]** button to turn on the system.
- Select CD function.
- Press **[I/⏻]** button to turn off the system.
- Press **[■]** button and **[I/⏻]** button simultaneously. The system turns on automatically.
- The message "CD/USB POWER ON" or "CD/USB POWER OFF" will be displayed on the fluorescent indicator tube.

[CD TRAY LOCK MODE]

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

Procedure:

- Press **[I/⏻]** button to turn on the system.
- Select CD function.
- Press **[■]** button and **[▲]** button simultaneously and hold down until "LOCKED" or "UNLOCKED" displayed on the fluorescent indicator tube (around 5 seconds).

[TCM OFFLINE MODE]

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

Procedure:

- When the system is turned off, press **[EQBAND/MEMORY]** button, **[CD-TAPE SYNC]** button and **[I/⏻]** button simultaneously. The system turns on automatically.
- The message "TCM OFFLINE" will be displayed on the fluorescent indicator tube.

[REMOTE DISABLE MODE]

- This mode let you disable the remote commander reception. When this mode is activated, the system will not response if the button on the remote commander is pressed. The message "Remote Disable" appears on the fluorescent indicator tube. This mode is essential for conducting test and repairing when no interruption from the other remote commander is expected. This mode is cancelled automatically when the system is turned off.

Procedure:

- Press **[I/⏻]** button to turn on the system.
- Press **[■]** button, **[FLANGER]** button and **[DISC 2]** button simultaneously until "Remote Disable" or "Remote Enable" appears on the fluorescent indicator tube.

[FACTORY PRESET]

- This mode is use to load all the factory use preset frequencies into FM 1-FM 20 and AM 1-AM 10. Originally, frequency of FM 1-FM 20 and AM 1-AM10 are set to the minimum.

Procedure:

- Press **[I/⏻]** button to turn on the system.
- Press **[I/⏻]** button, **[TUNER/BAND]** button and **[▲]** button simultaneously and the message "Factory" appears on the fluorescent indicator tube. The function is changed to TUNER automatically.
- To release from this mode, operate the cold reset. (Refer to the "COLD RESET").

[VACS DISPLAY]

- This mode is used to check the VACS level.

Procedure:

- Press **[I/⏻]** button to turn on the system.
- Press **[■]** button, **[CD]** button and **[DISC SKIP/EX-CHANGE]** button simultaneously.
- The fluorescent indicator tube displays "V\$T% F AP#".
 "V" represents Conventional VACS (Triggered by signal level)
 "T" represents Thermal VACS NEO (Triggered by temperature)
 "AP" represents APVACS (Abuse Protection VACS)
 "\$" is the Conventional VACS level.
 "%" is the Thermal VACS NEO level.
 "#" is the APVACS level.
 "F" is shown if the fan is triggered by software to turn in high speed.
- To release from VACS display mode, do the step (2) again.

[MP3 BOOSTER ON/OFF]

- MP3 Booster is built-in features of this model. It turns on automatically when the MP3 audio track is played back. By using this mode, you can turn on or off the MP3 Booster manually.

Procedure:

- Press **[I/⏻]** button to turn on the system.
- Select CD function and play back an MP3 audio track.
- Press **[RETURN]** button, **[FLANGER]** button and **[DISC 3]** button simultaneously. The message "BOOSTER OFF" or "BOOSTER ON" appears 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 roller
erase head	rubber belts
capstan	idlers
2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head magnetizer close to the erase head.)
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 2 to 6 g • cm (0.03 – 0.08 oz • inch)
FF/REW	CQ-201B	4.8 mN • m to 16.7 mN • m 49 to 170 g • cm (0.68 – 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]

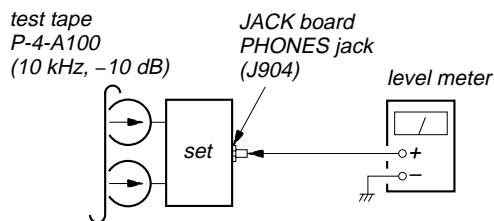
DECK A

DECK B

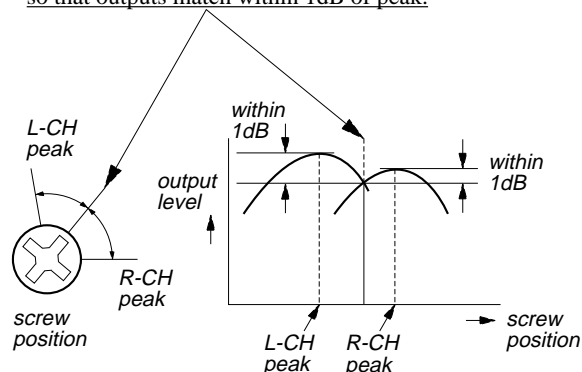
Note: Perform this adjustments for both decks

Procedure:

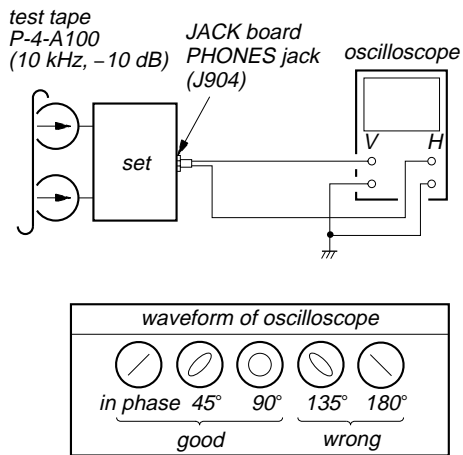
1. Mode: Playback



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.

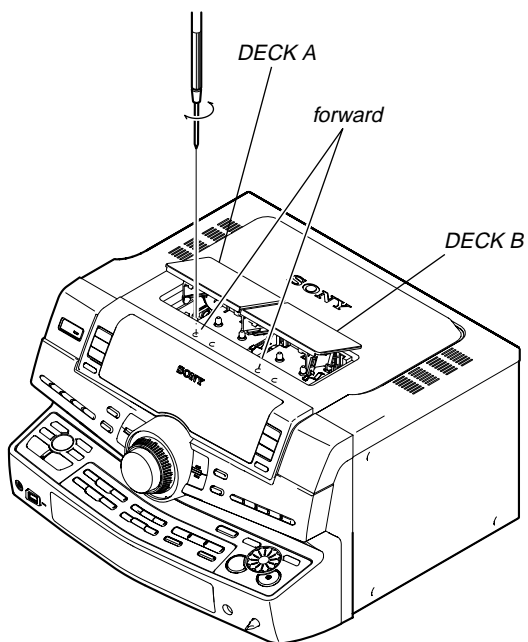


3. Mode: Playback



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

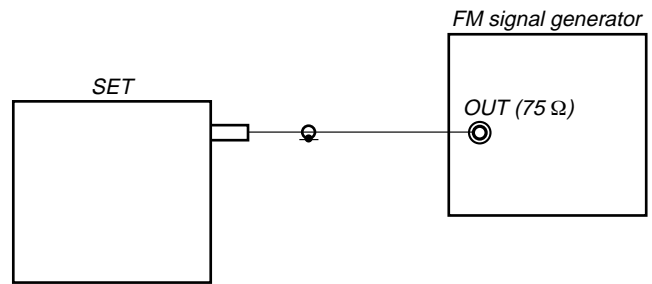
Adjustment Location: Playback Head (Deck A).
Record/Playback/Erase Head (Deck B).



TUNER SECTION

0 dB = 1 μ V

[FM TUNE LEVEL CHECK]



Procedure:

1. Turn the power on.
2. Input the following signal from Signal Generator to FM antenna input directly.

* Carrier Freq : A = 87.5 MHz, B = 98 MHz, C = 108 MHz
Deviation : 75 kHz
Modulation : 1 kHz
ANT input : 35 dBu (EMF)

Note: Please use 75 ohm "coaxial cable" to connect SG and the set. You cannot use video cable for checking.
Please use SG whose output impedance is 75 ohm.

3. Set to FM tuner function and tune A, B and C signals.
4. Confirm "TUNED" is lit on the display for A, B and C signals.

The mark of "TUNED" means "The selected station signal is received in good condition."

CD SECTION

[TEST DISC LIST]

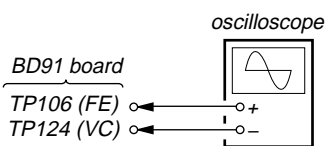
Use the following test disc on test mode.

- CD: YEDS-18 (PART No. 3-702-101-01)
or
PATD-012 (PART No. 4-225-203-01)

Note:

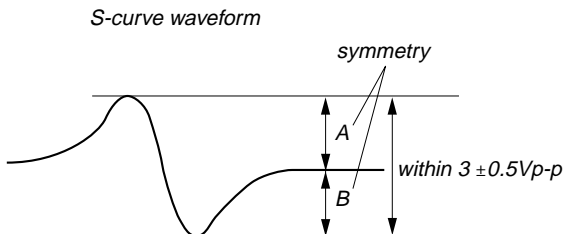
1. CD Block is basically designed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 (3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10MW impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal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

[S-CURVE CHECK]



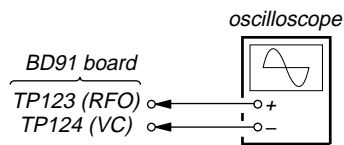
Procedure :

1. Connect an oscilloscope to TP106 (FE) and TP124 (VC).
2. Turn the power on.
3. Load a disc (YEDS-18) and actuate the focus search. (In consequence of open and close the disc tray, actuate the focus search).
4. Confirm that the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within $3 \pm 0.5 V_{p-p}$.



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

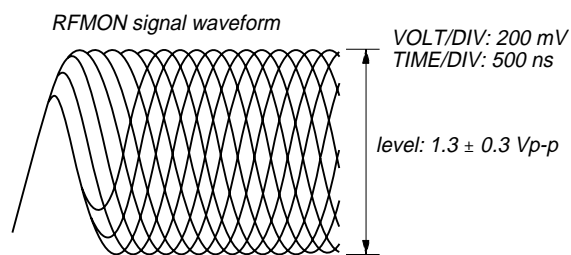
[RF LEVEL CHECK]



Procedure :

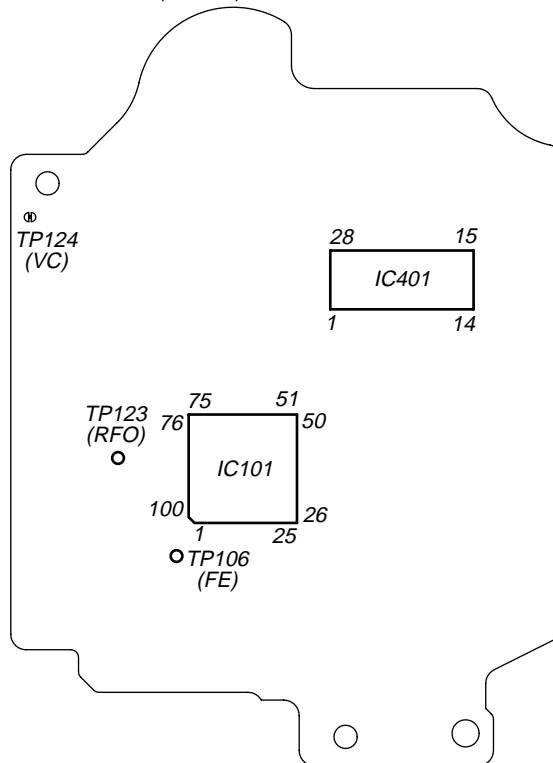
1. Connect an oscilloscope to TP123 (RFO) and TP124 (VC).
2. Turn the power on.
3. Load a disc (YEDS-18) and playback.
4. Confirm that oscilloscope waveform is clear and check if RF signal level is correct or not.

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



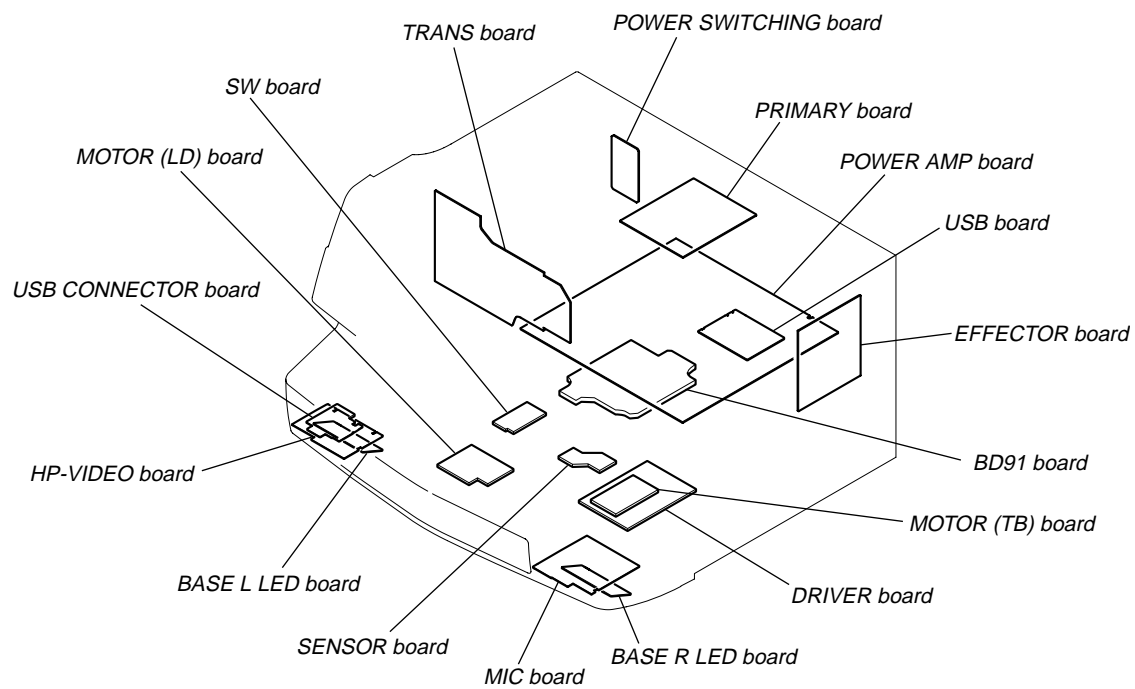
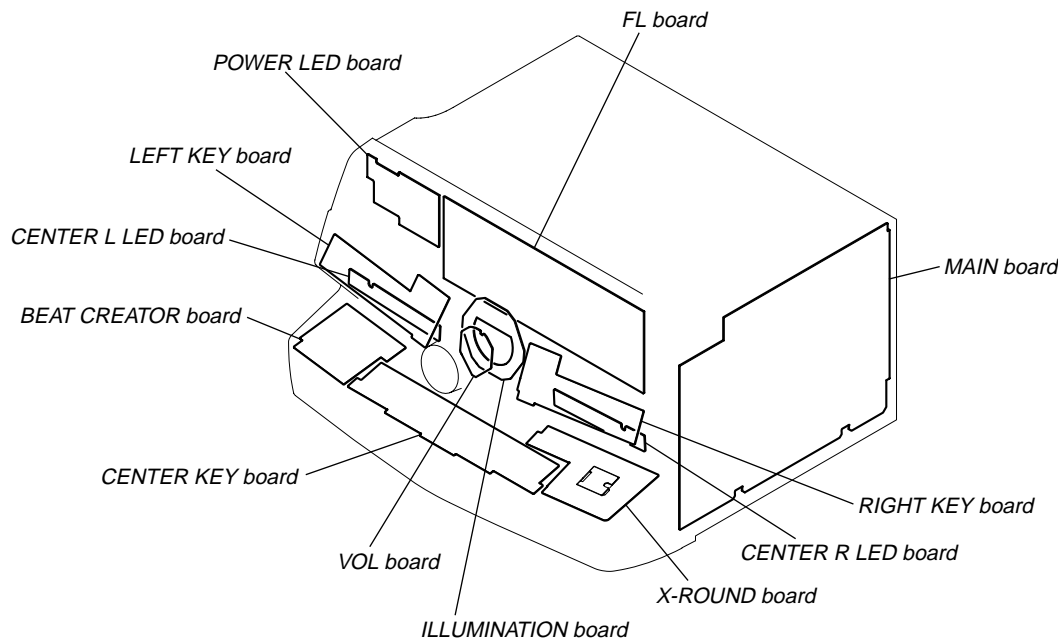
Connecting Location: CD board

– BD91 Board (SIDE B) –

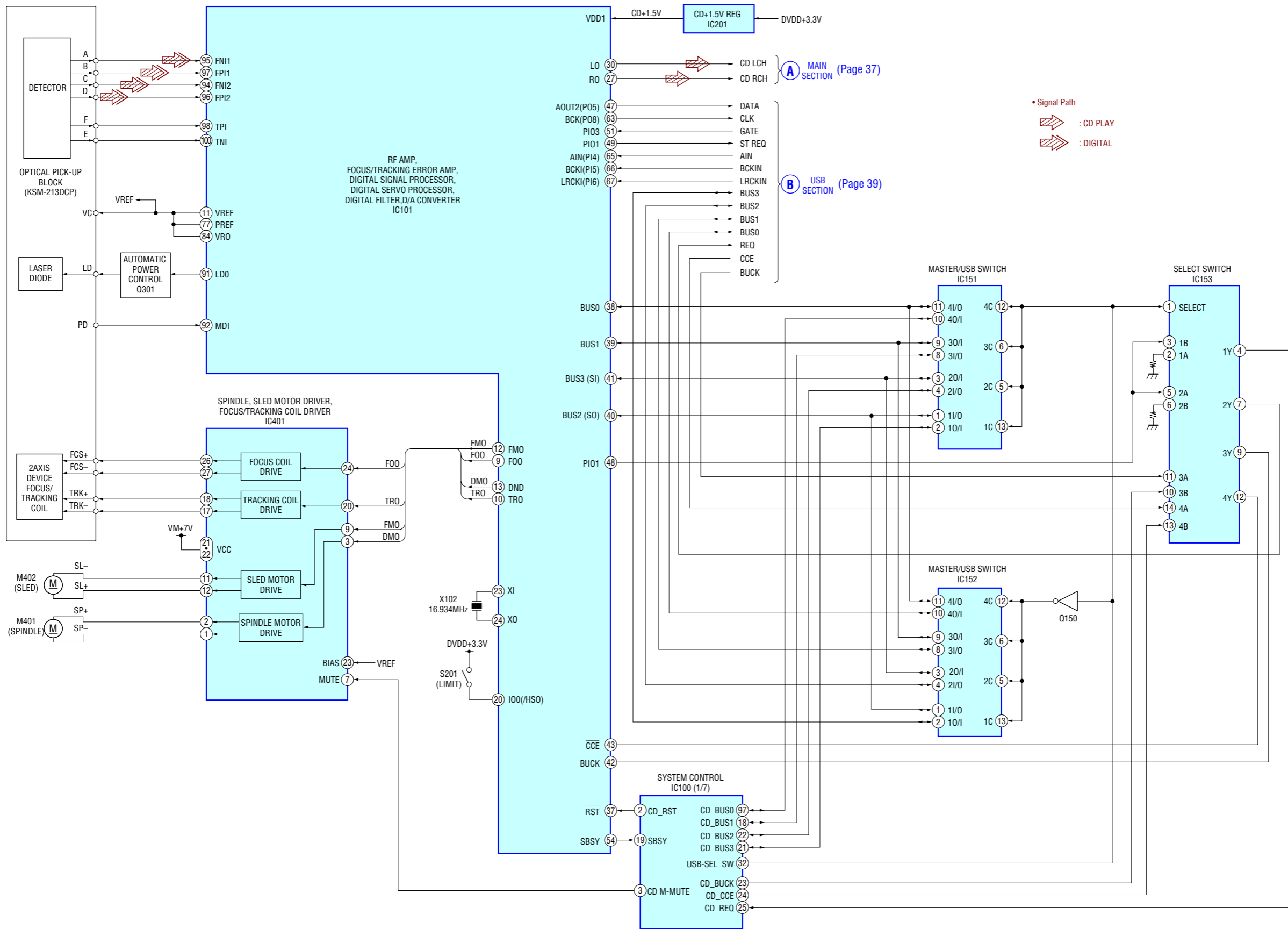


**SECTION 7
DIAGRAMS**

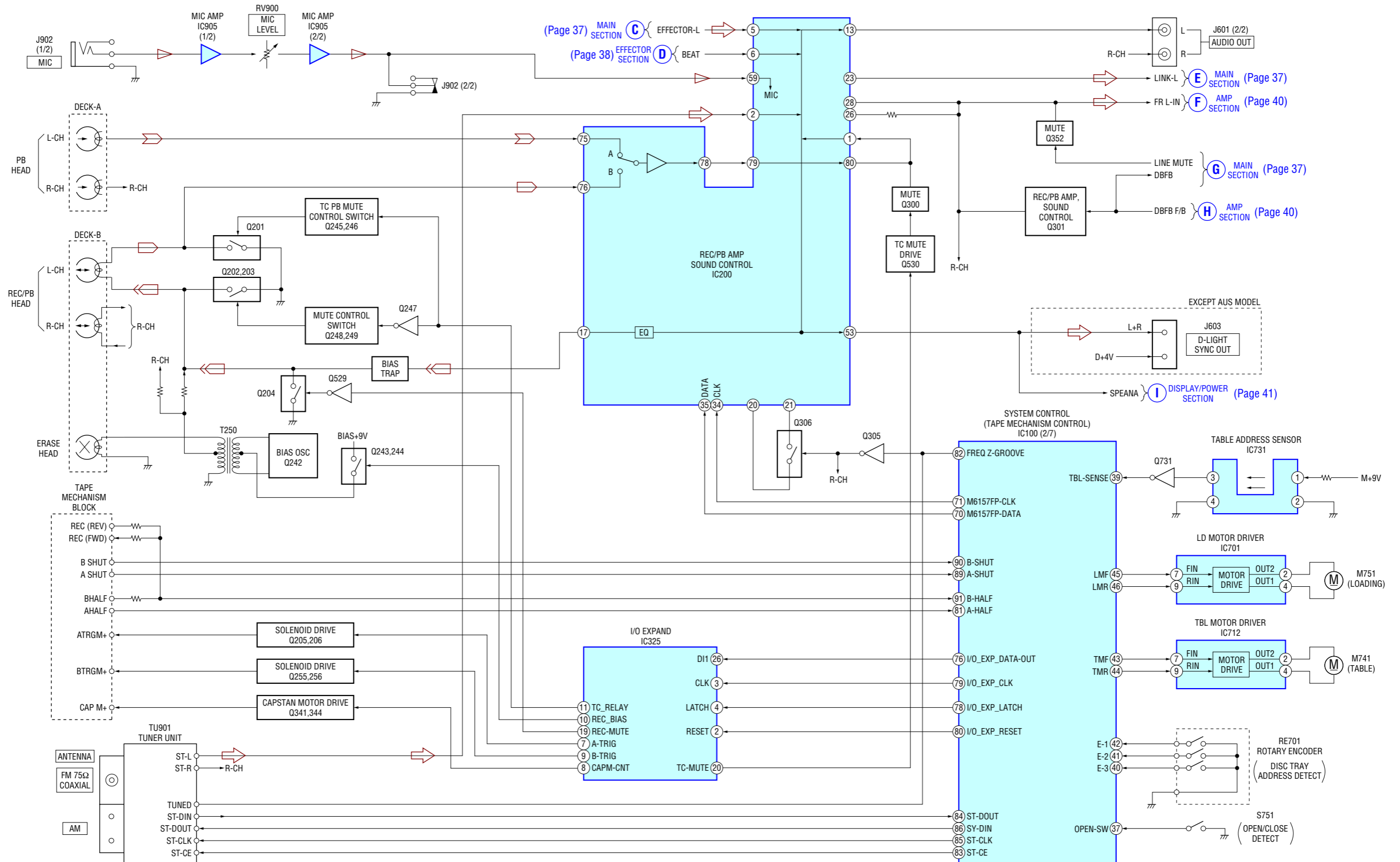
• **Circuit Boards Location**



7-1. BLOCK DIAGRAM – RF/SERVO Section –

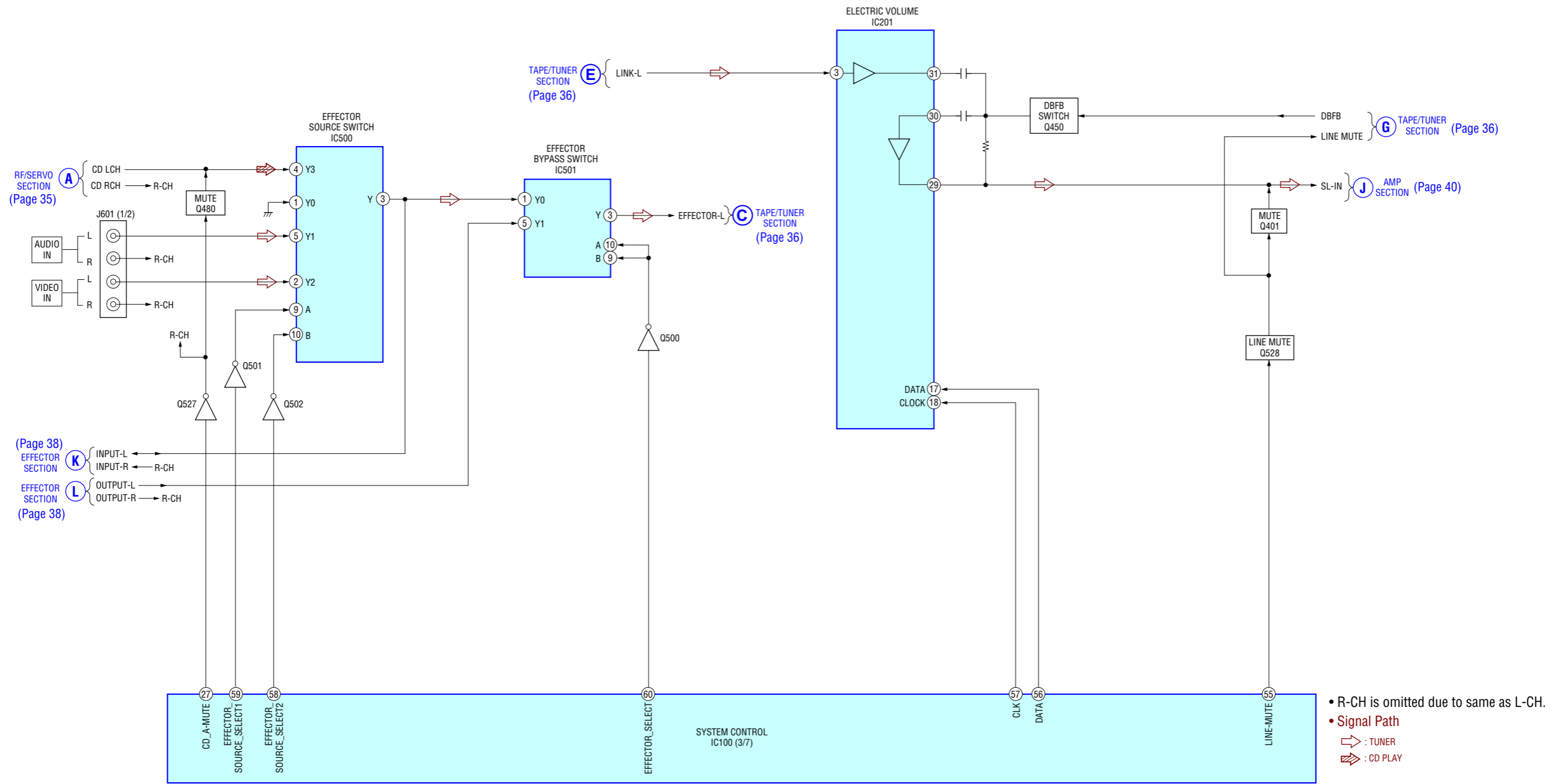


7-2. BLOCK DIAGRAM – TAPE/TUNER Section –

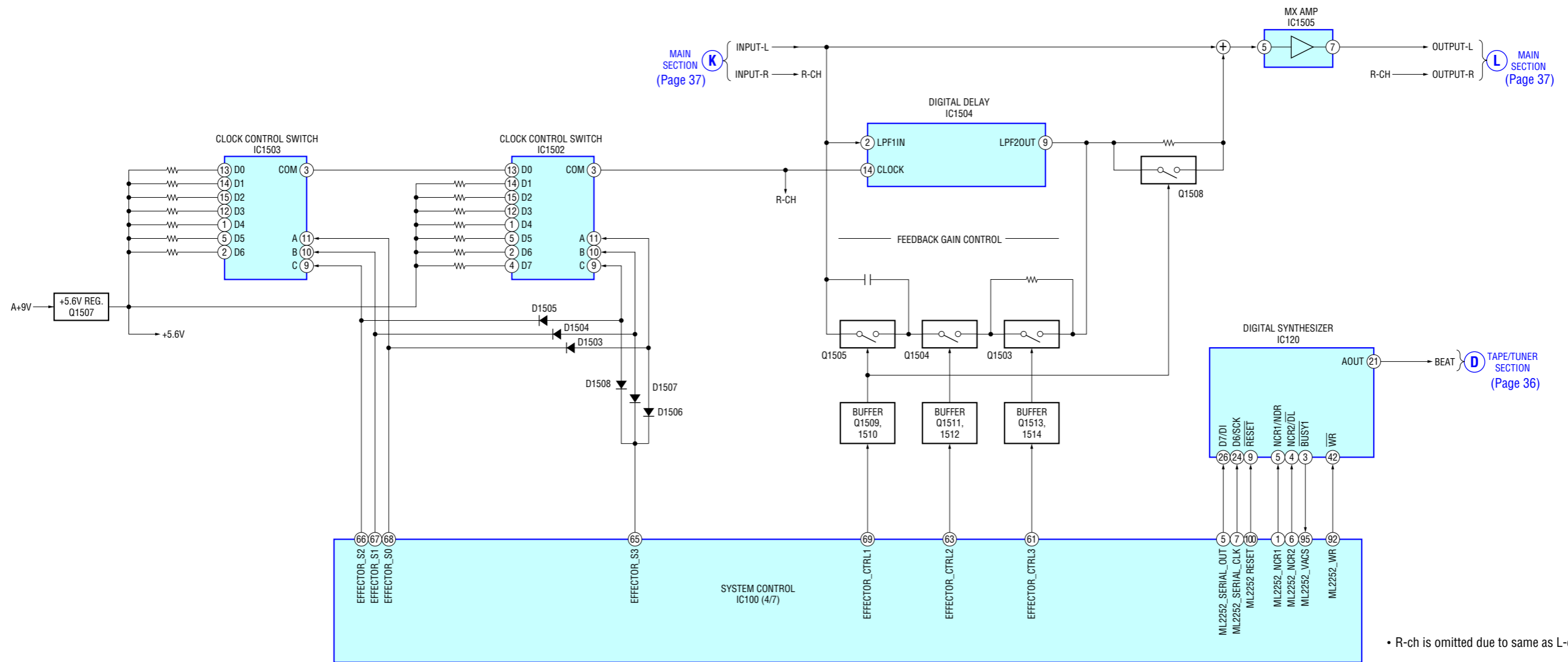


- R-ch is omitted due to same as L-ch.
- SIGNAL PATH
 - ➡ : TUNER
 - ➡ : TAPE PLAY (DECK A)
 - ➡ : TAPE PLAY (DECK B)
 - ➡ : RECORD (DECK B)
 - ➡ : MIC

7-3. BLOCK DIAGRAM – MAIN Section –

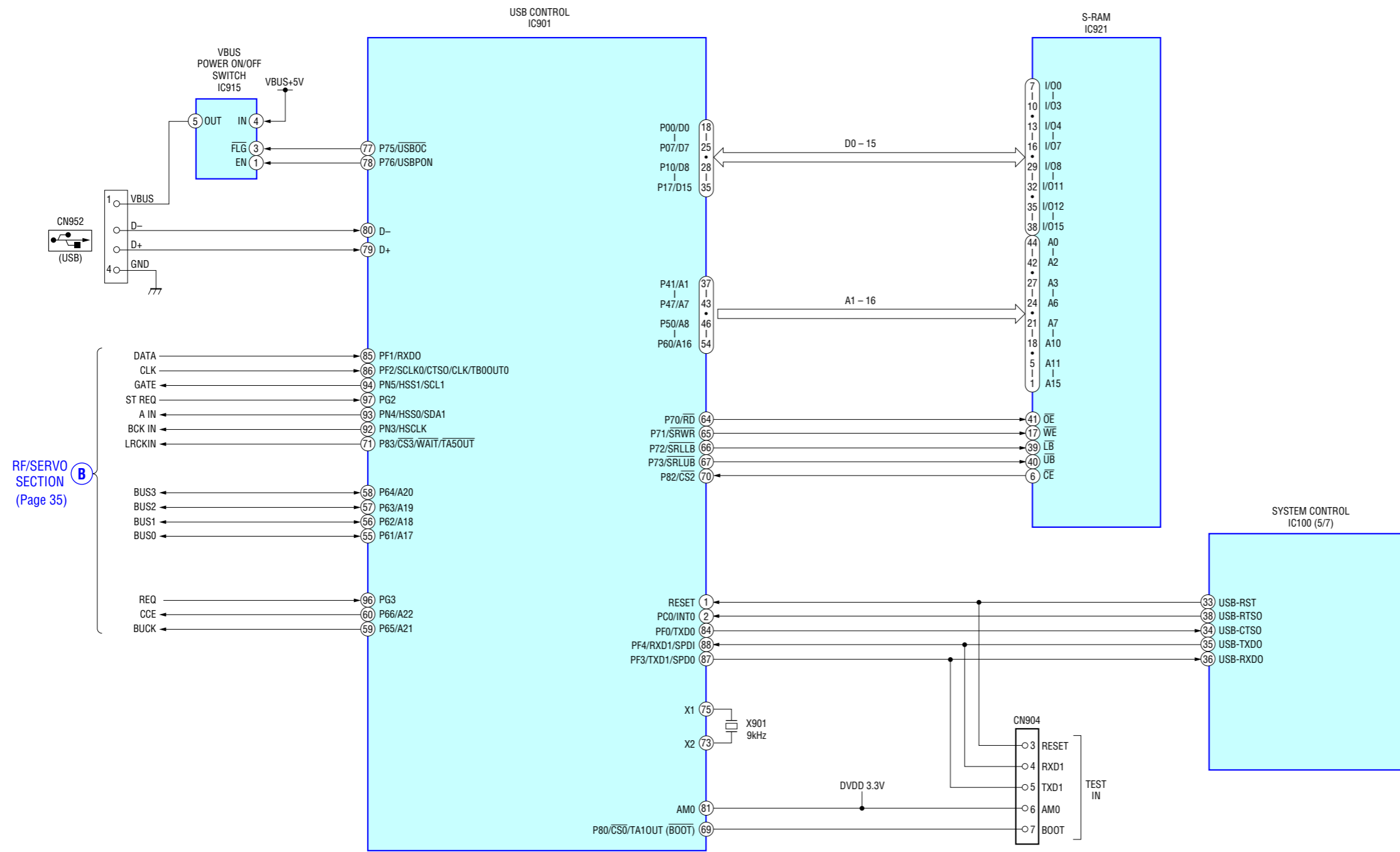


7-4. BLOCK DIAGRAM – EFFECTOR Section –

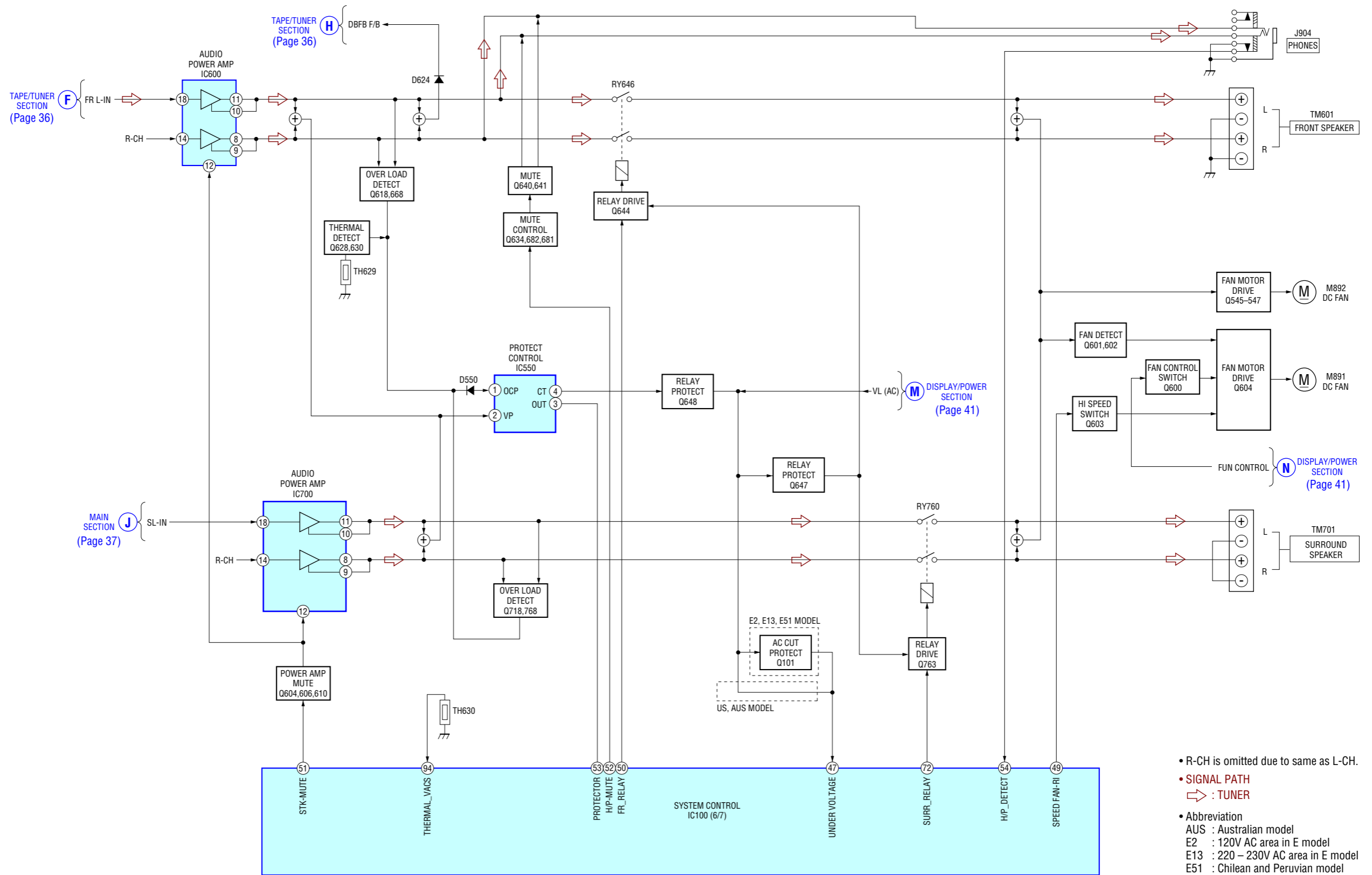


• R-ch is omitted due to same as L-ch.

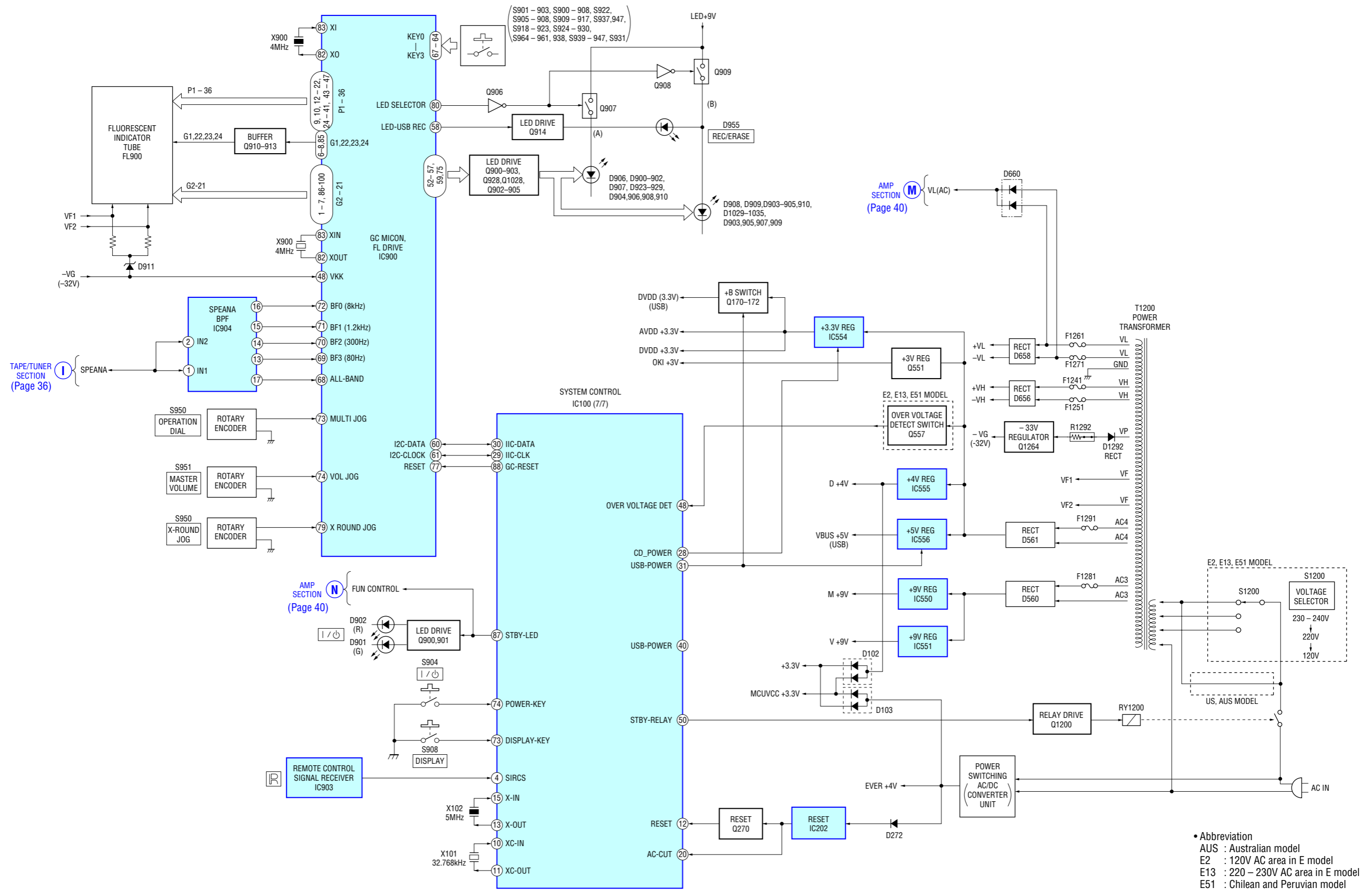
7-5. BLOCK DIAGRAM – USB Section –



7-6. BLOCK DIAGRAM – AMP Section –



7-7. BLOCK DIAGRAM – DISPLAY/POWER Section –



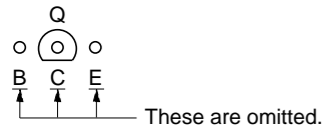
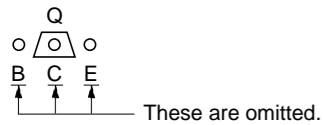
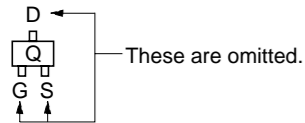
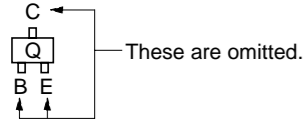
• Note for Printed Wiring Boards and Schematic Diagrams

Note on Printed Wiring Board:

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

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

• Indication of transistor



• Abbreviation

- AUS : Australian model
- E2 : 120 V AC area in E model
- E13 : 220-230 V AC area in E model
- E51 : Chilean and Peruvian model

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)

LF : 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.

Note on Schematic Diagram:


- All capacitors are in μF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/4\text{W}$ or less unless otherwise specified.
- : nonflammable resistor.
- : panel designation.

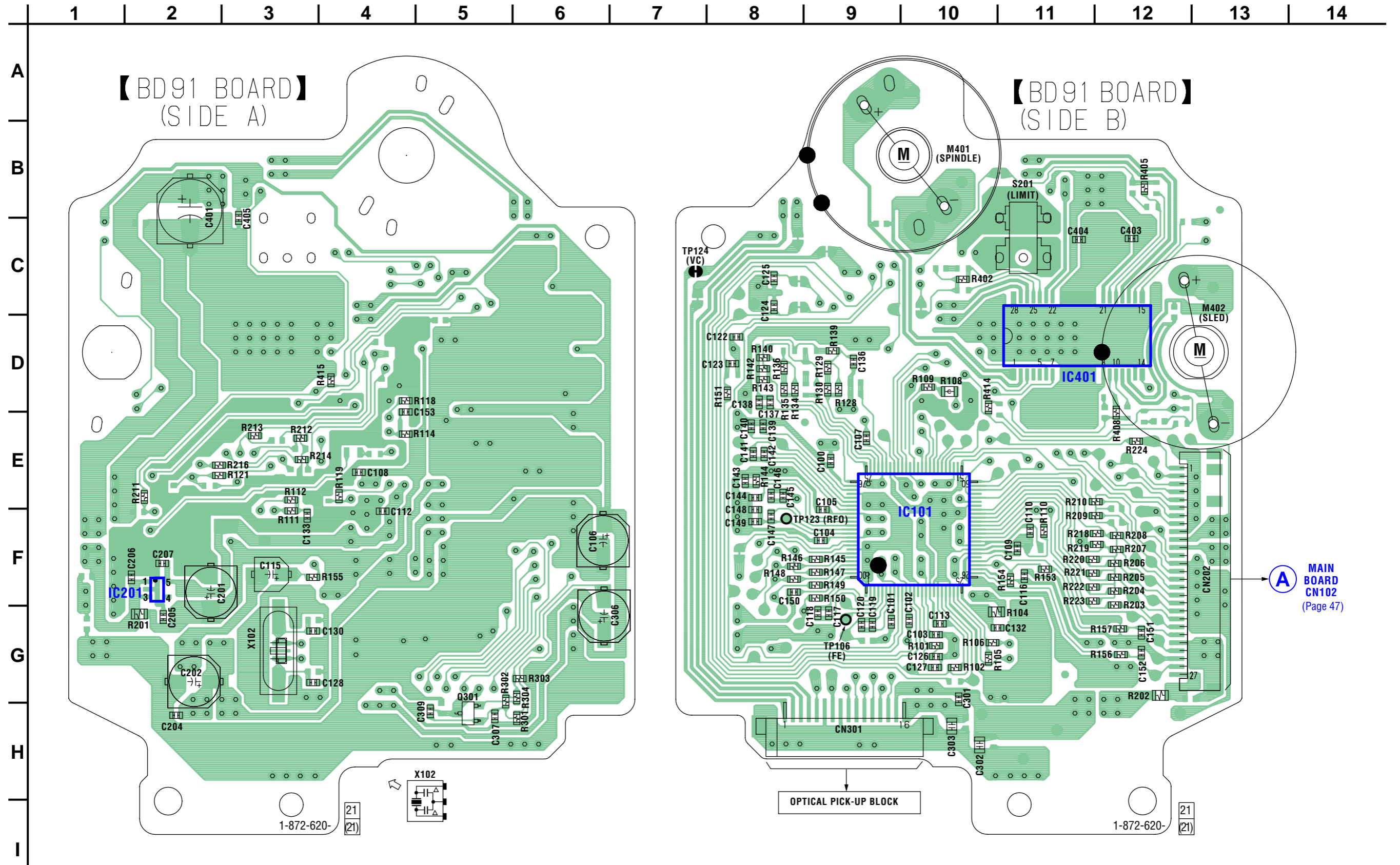
Note: The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

- : B+ Line.
- - - : B- Line.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- no mark : TUNER
- () : TAPE PLAY
- [] : TAPE REC
- < > : CD PLAY
- * : Impossible to measure
- Voltagess are taken with a VOM (Input impedance 10 M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
- ⇒ : TUNER
- ⇒ : TAPE PLAY (DECK A)
- ⇒ : TAPE PLAY (DECK B)
- ⇒ : TAPE REC (DECK B)
- ⇒ : CD PLAY (ANALOG OUT)
- ⇒ : CD PLAY (DIGITAL OUT)
- ▷ : MIC
- Abbreviation
- AUS : Australian model
- E2 : 120 V AC area in E model
- E13 : 220-230 V AC area in E model
- E51 : Chilean and Peruvian model

• Semiconductor Location (MAIN Borad)

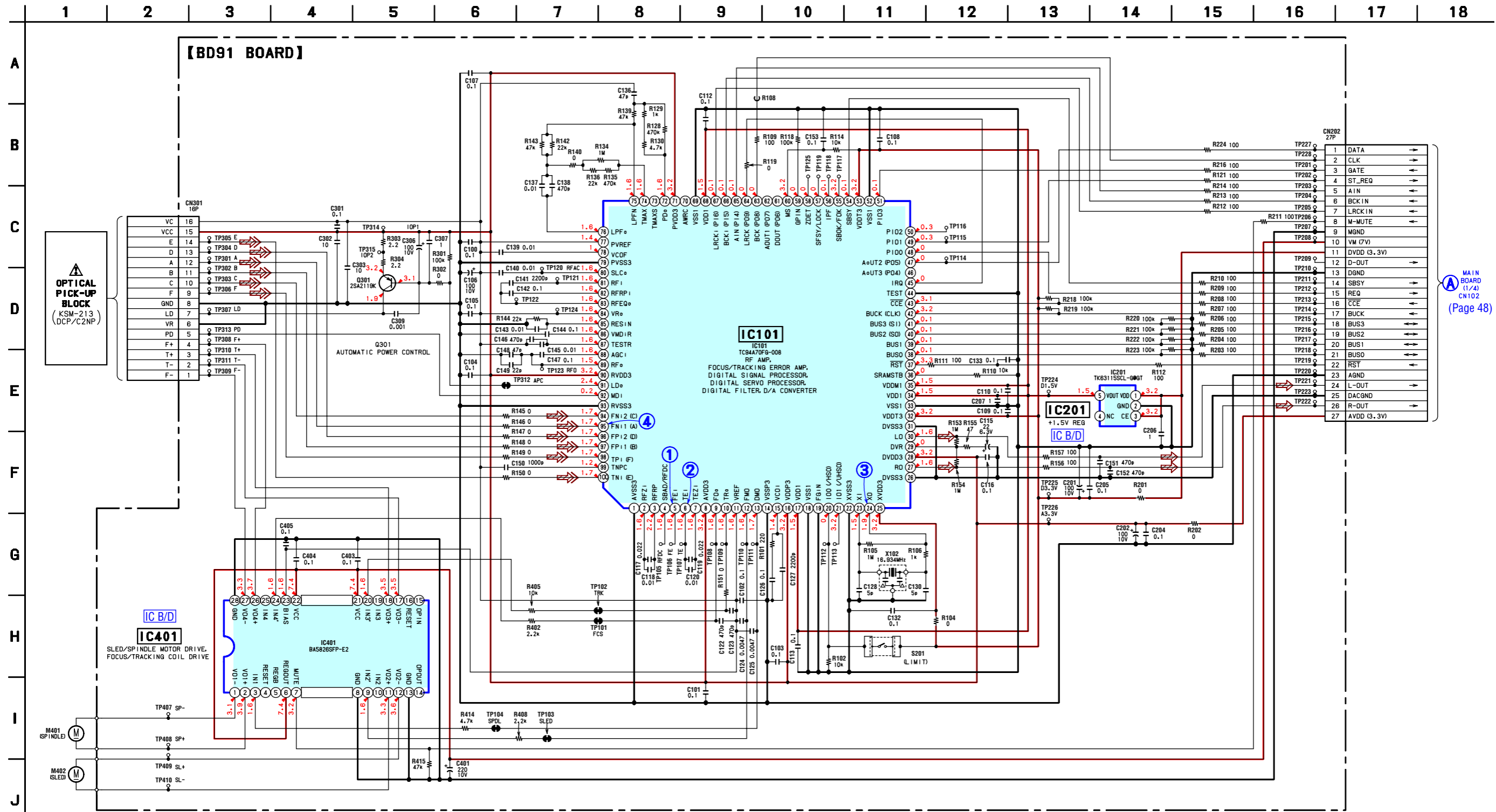
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D102	A-5	IC500	G-8	Q270	B-5
D103	A-5	IC501	G-9	Q300	B-9
D105	E-6	IC550	H-6	Q301	D-10
D150	A-5	IC551	H-6	Q302	D-11
D205	B-5	IC554	F-3	Q305	D-11
D207	B-7	IC555	F-3	Q306	C-10
D224	A-6	IC556	F-5	Q350	A-10
D257	B-7			Q351	D-11
D270	B-5	Q101	E-6	Q352	D-10
D272	B-5	Q150	D-3	Q373	C-11
D530	H-6	Q170	D-4	Q400	I-11
D545	F-6	Q171	D-4	Q401	H-9
D549	E-9	Q172	D-4	Q430	H-8
D550	E-9	Q201	B-8	Q450	I-11
D551	E-9	Q202	B-8	Q451	H-9
D554	F-4	Q203	B-9	Q480	H-8
D555	F-4	Q204	C-8	Q500	H-9
D556	F-4	Q205	B-7	Q501	G-8
D557	G-5	Q206	B-7	Q502	G-8
D558	G-6	Q207	B-7	Q527	H-7
D560	H-3	Q208	B-7	Q528	H-8
D561	G-3	Q242	A-8	Q529	H-8
D600	F-12	Q243	A-8	Q530	H-8
D601	F-12	Q244	B-8	Q545	F-6
D602	F-12	Q245	C-9	Q546	F-6
		Q246	C-8	Q547	G-6
IC100	C-5	Q247	C-8	Q551	E-9
IC120	B-6	Q248	C-8	Q557	G-6
IC151	C-4	Q249	C-9	Q600	F-12
IC152	C-3	Q251	C-8	Q601	F-12
IC153	D-3	Q252	B-8	Q602	F-12
IC200	C-10	Q253	C-8	Q603	F-12
IC201	H-10	Q254	C-8	Q604	E-12
IC202	B-5	Q255	B-7		
IC325	D-8	Q256	B-7		

7-8. PRINTED WIRING BOARD – BD91 Section – • See page 34 for Circuit Boards Location.  : Uses unleaded solder.



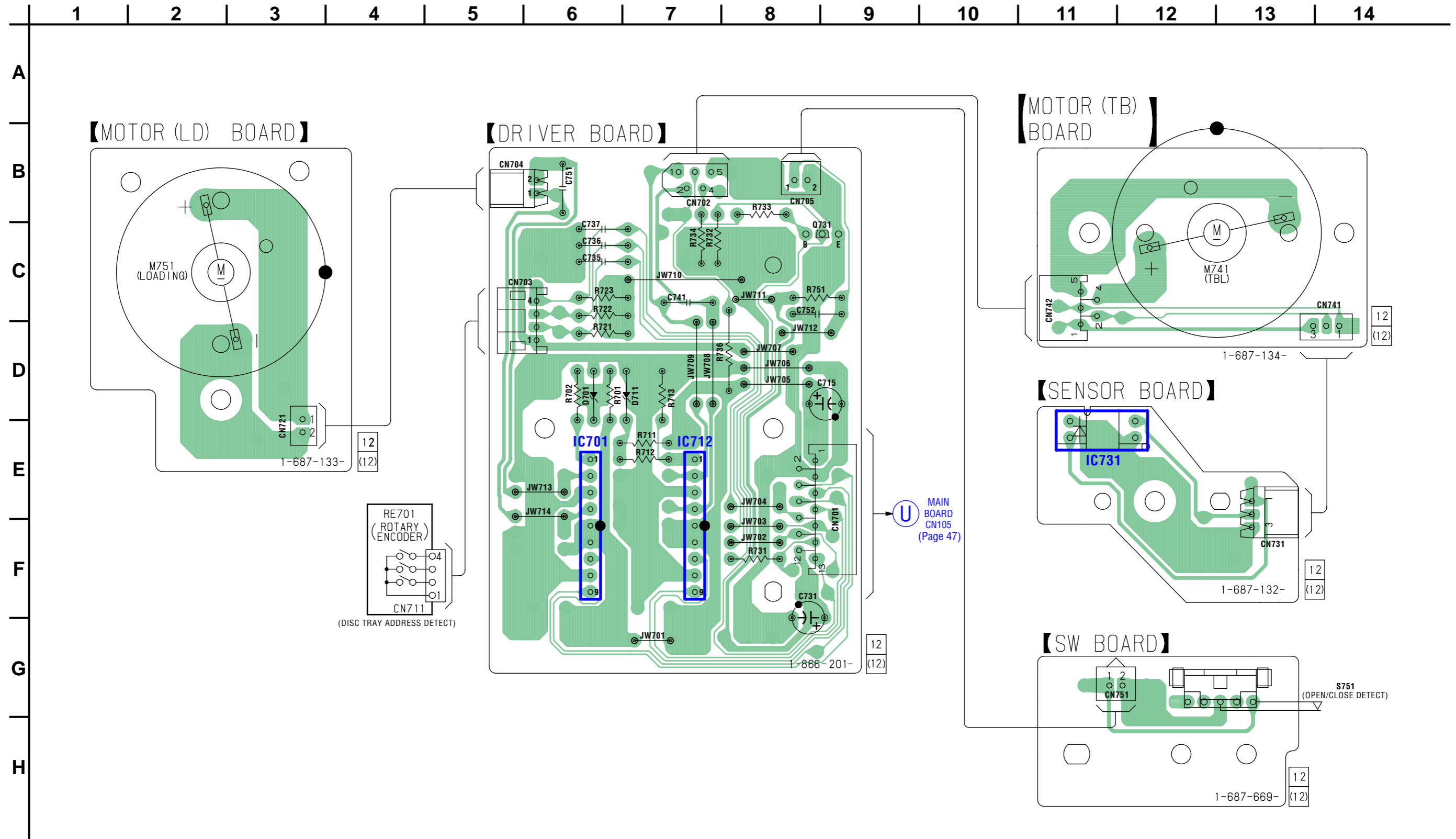
- See page 70 for Waveforms.
- See page 70 for IC Block Diagrams.
- See page 77 for IC Pin Description of IC101.

7-9. SCHEMATIC DIAGRAM – BD91 Section –

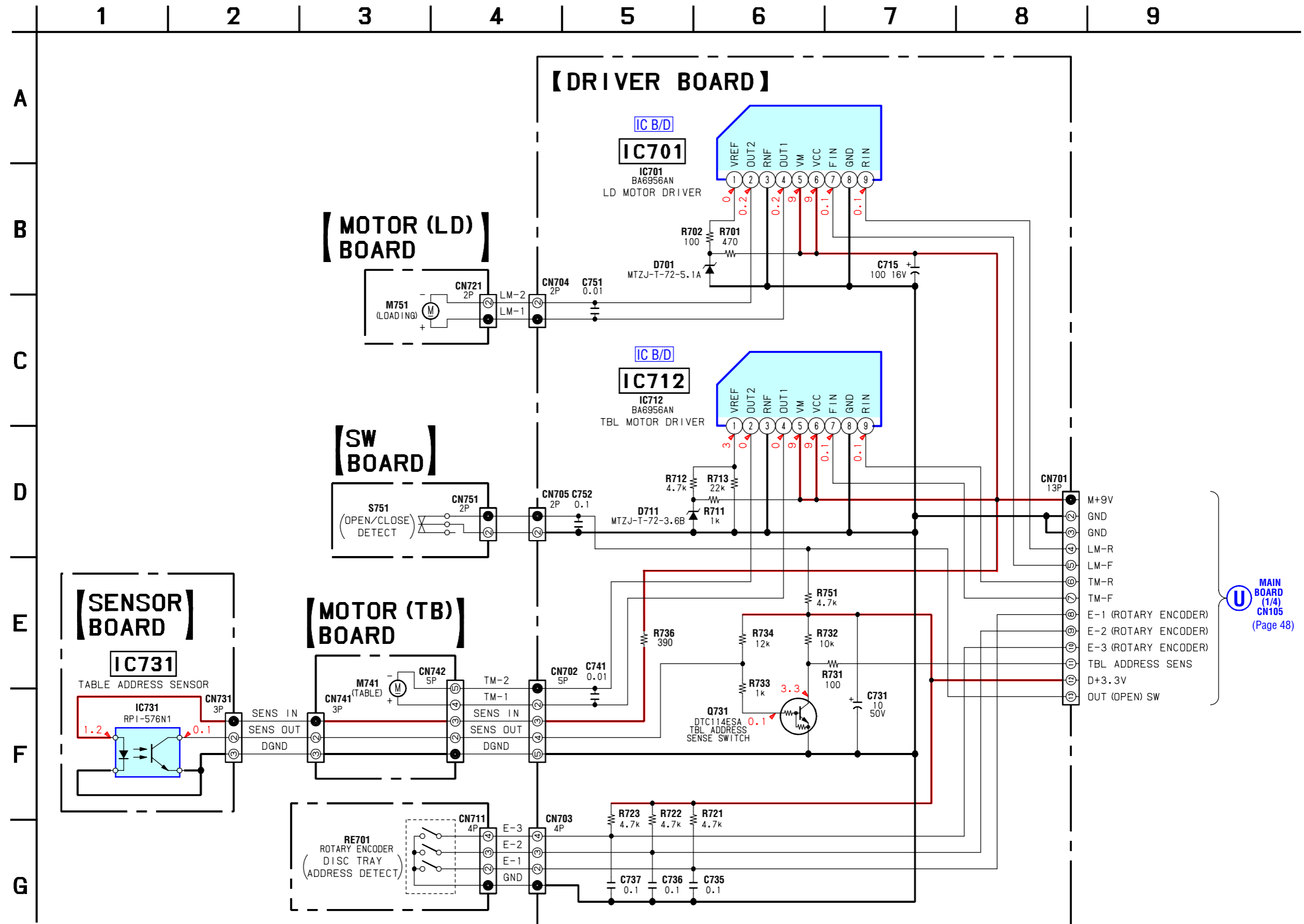


MAIN BOARD (1/4) CN102 (Page 48)


7-10. PRINTED WIRING BOARDS – DRIVER Section – See page 34 for Circuit Boards Location.  : Uses unleaded solder.

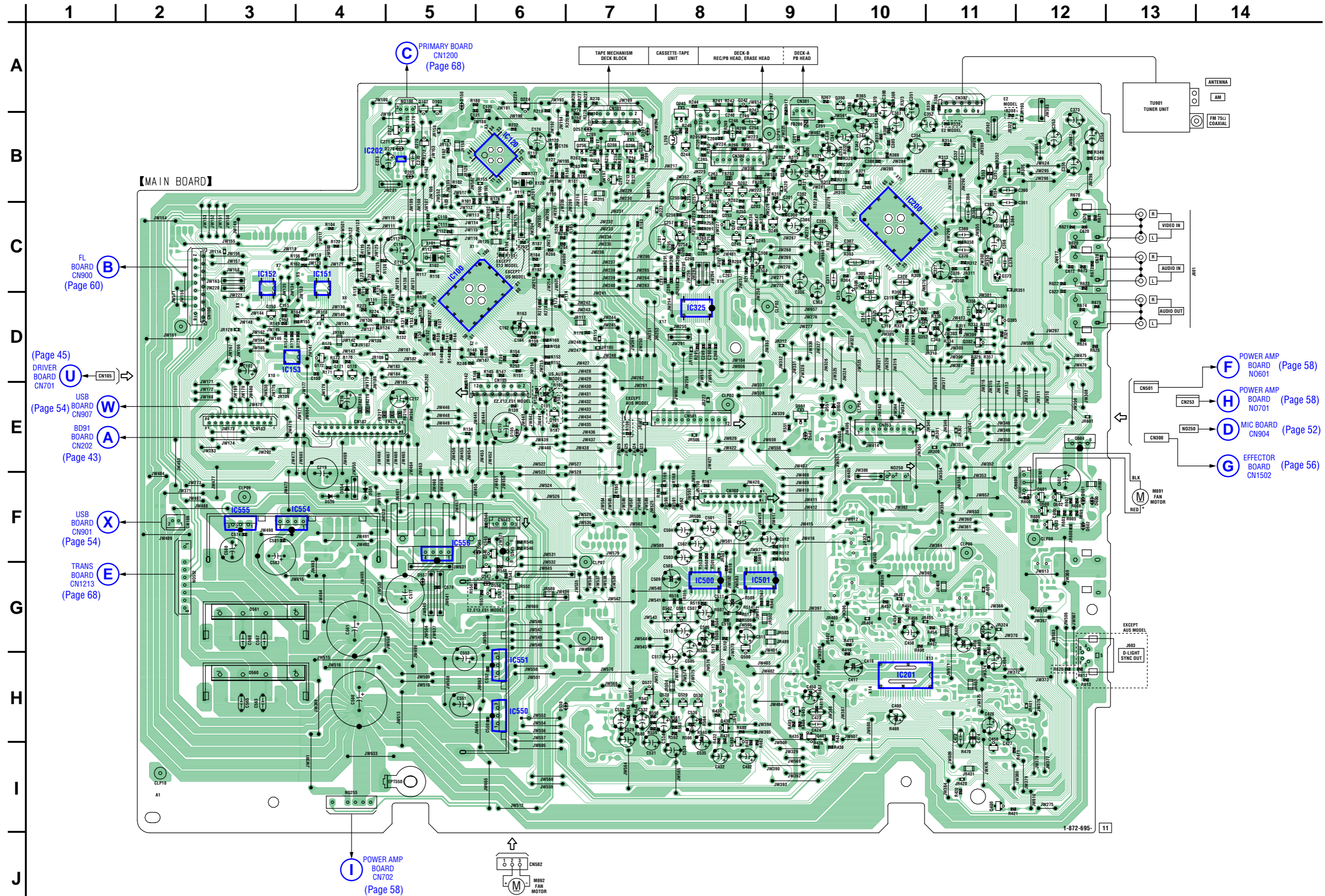


7-11. SCHEMATIC DIAGRAM – DRIVER Section – • See page 70 for IC Block Diagrams.

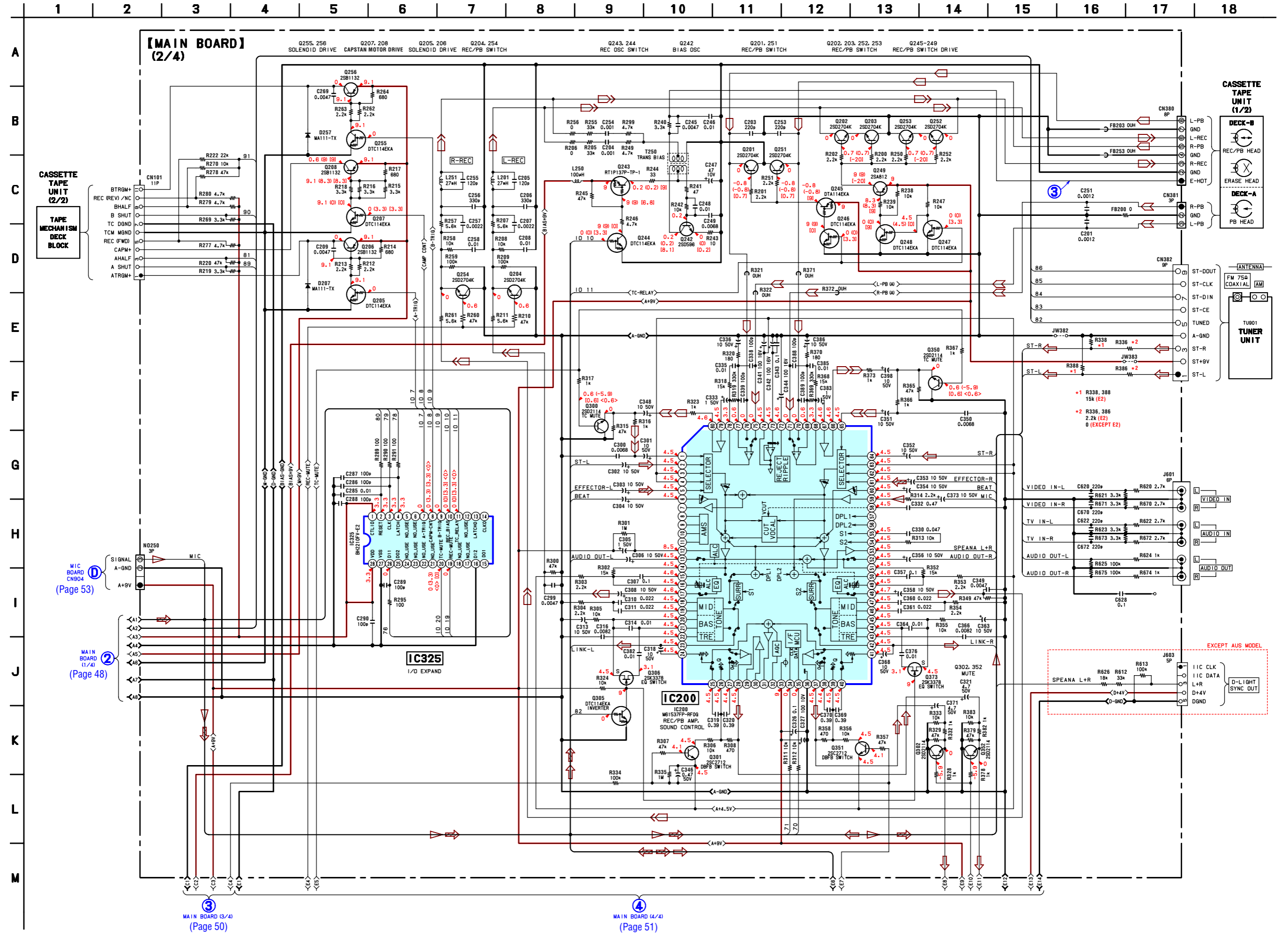


7-12. PRINTED WIRING BOARD – MAIN Section –

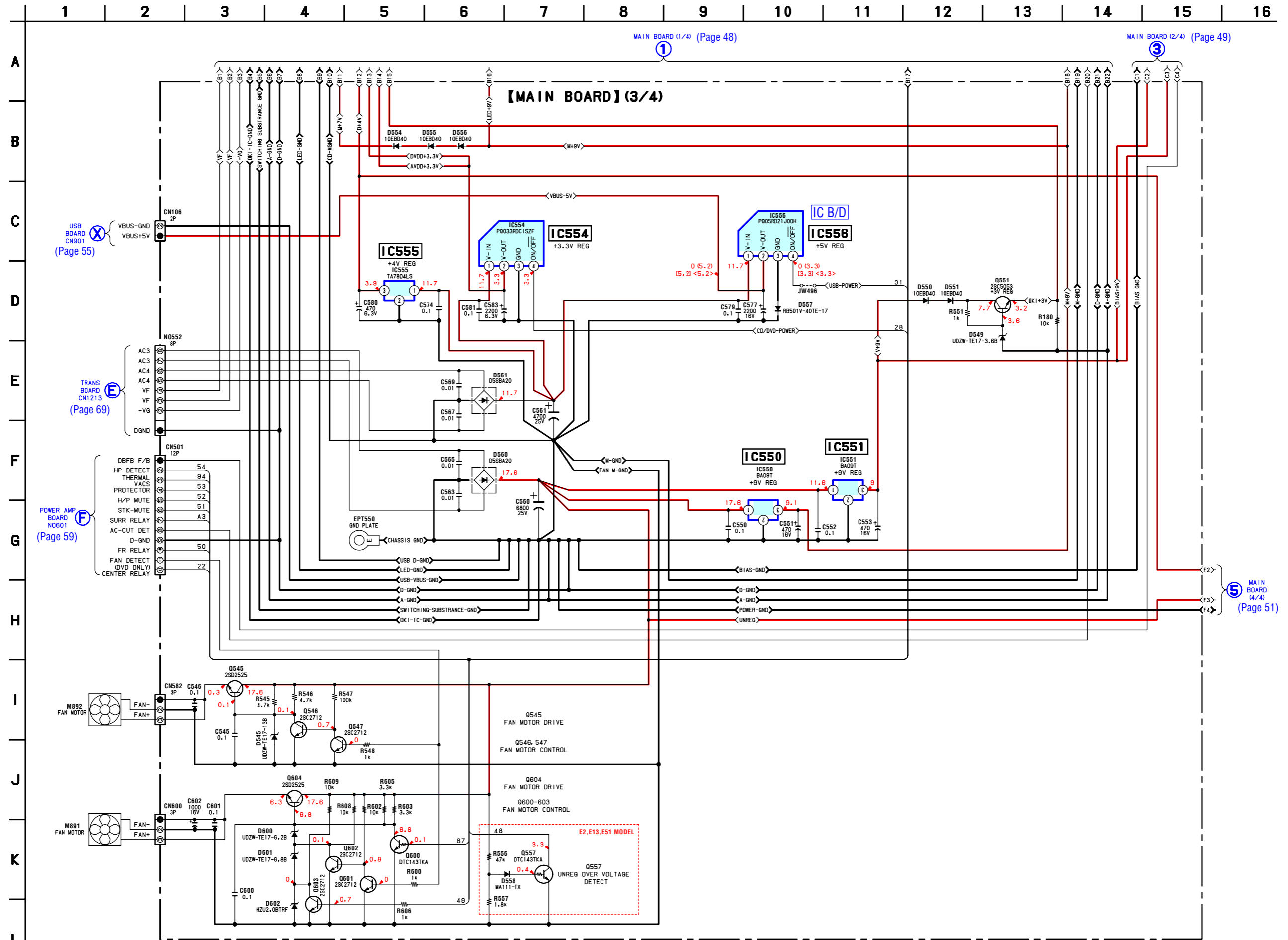
• See page 42 for Semiconductor Location.
• See page 34 for Circuit Boards Location.  : Uses unleaded solder.



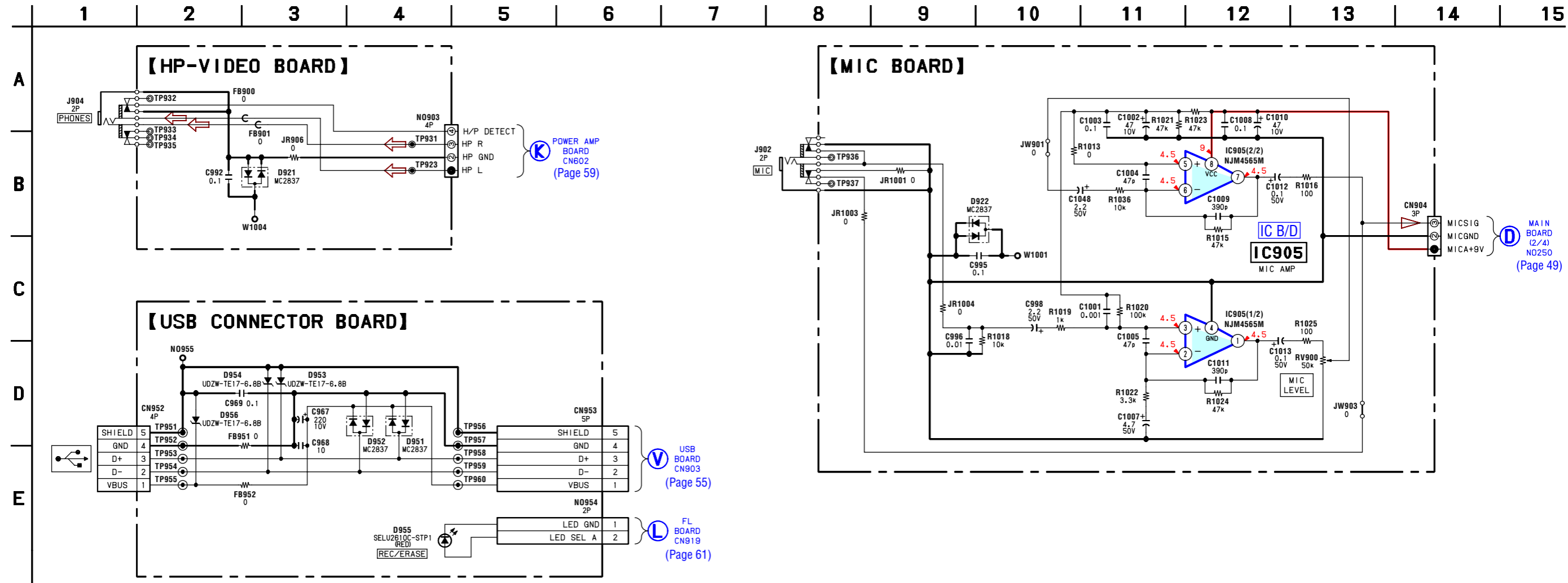
7-14. SCHEMATIC DIAGRAM – MAIN Section (2/4) – See page 83 for IC Pin Description of IC325.




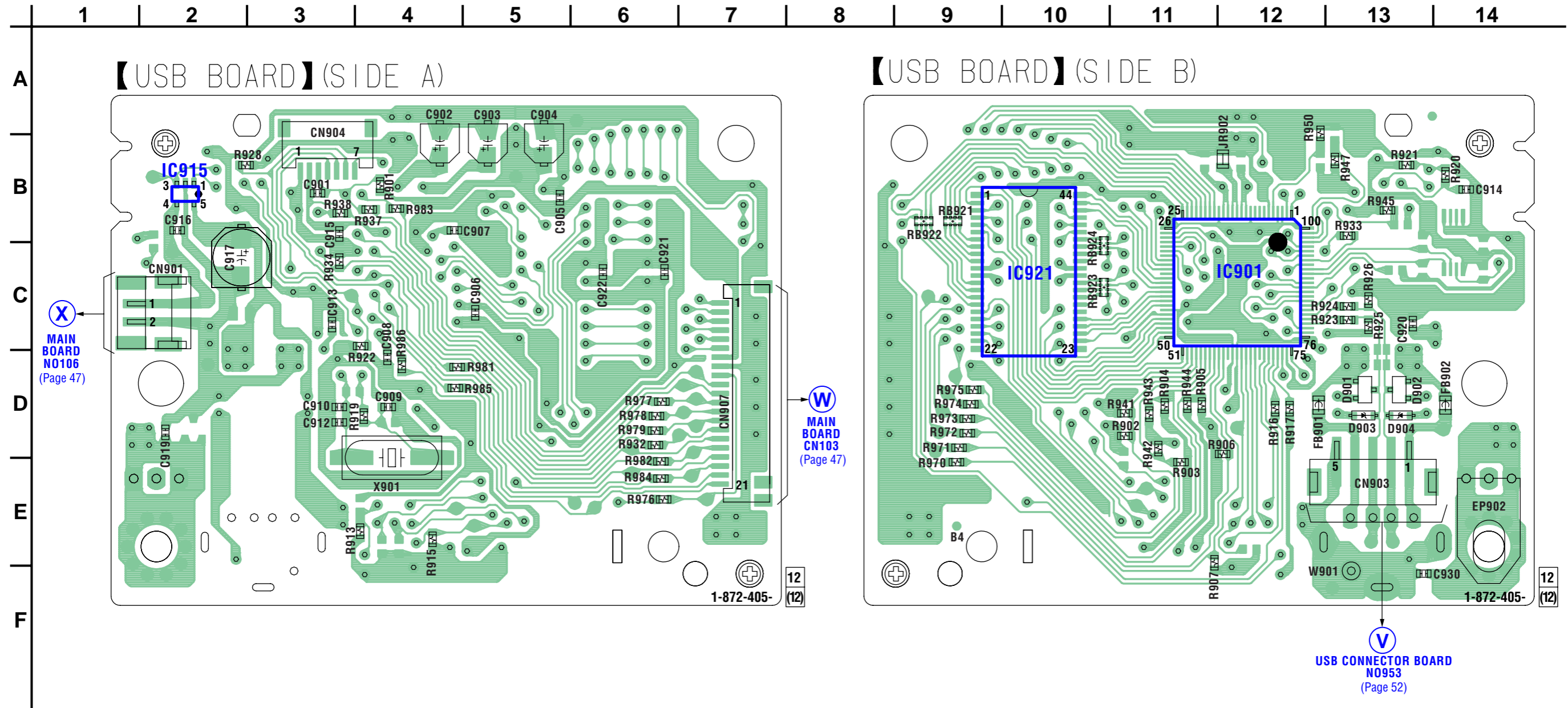
7-15. SCHEMATIC DIAGRAM – MAIN Section (3/4) – • See page 74 for IC Block Diagrams.



7-18. SCHEMATIC DIAGRAM – HP-VIDEO/MIC/USB CONNECTOR Section – See page 76 for IC Block Diagram.



7-19. PRINTED WIRING BOARD – USB Section – • See page 34 for Circuit Boards Location.  : Uses unleaded solder.

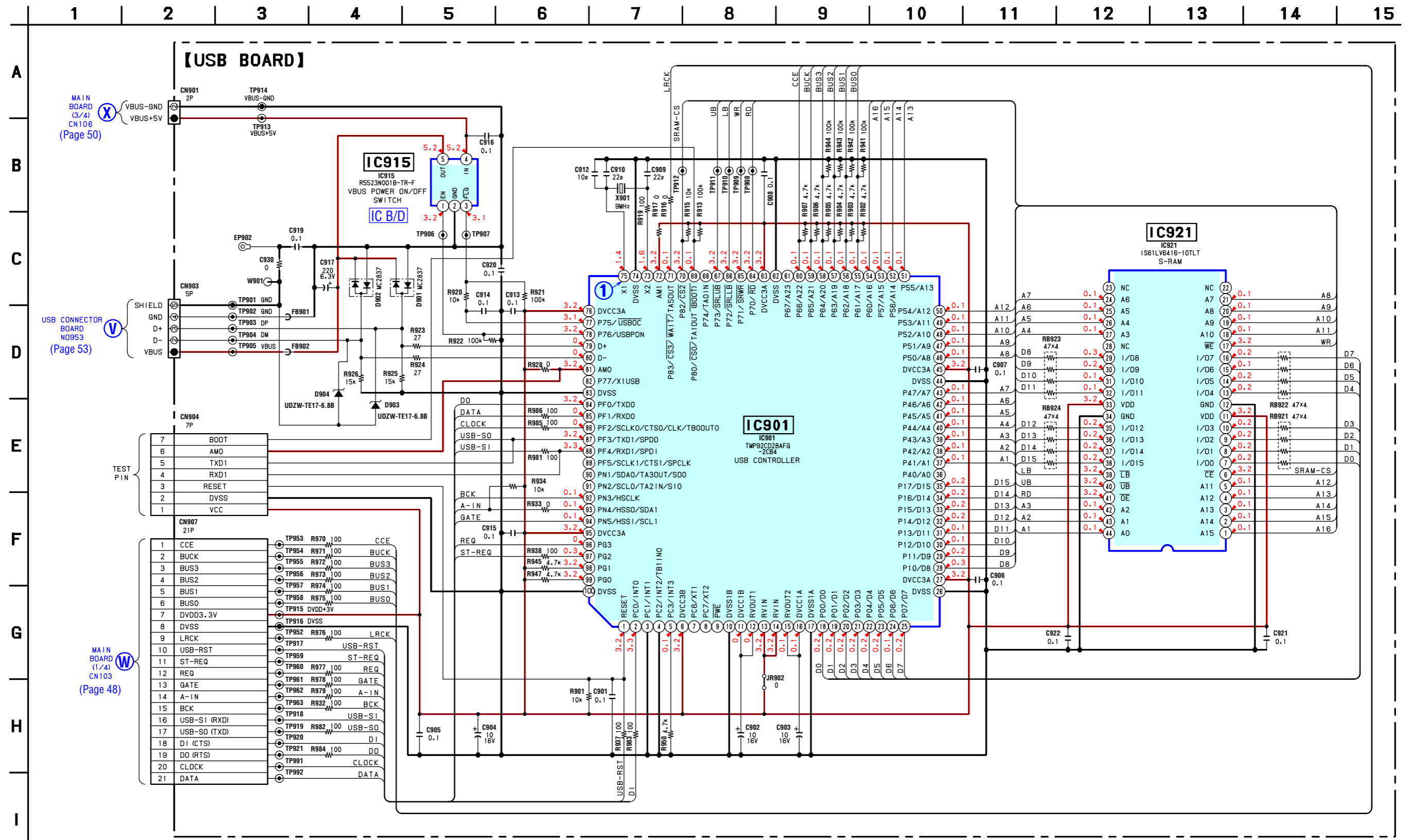


• Semiconductor Location

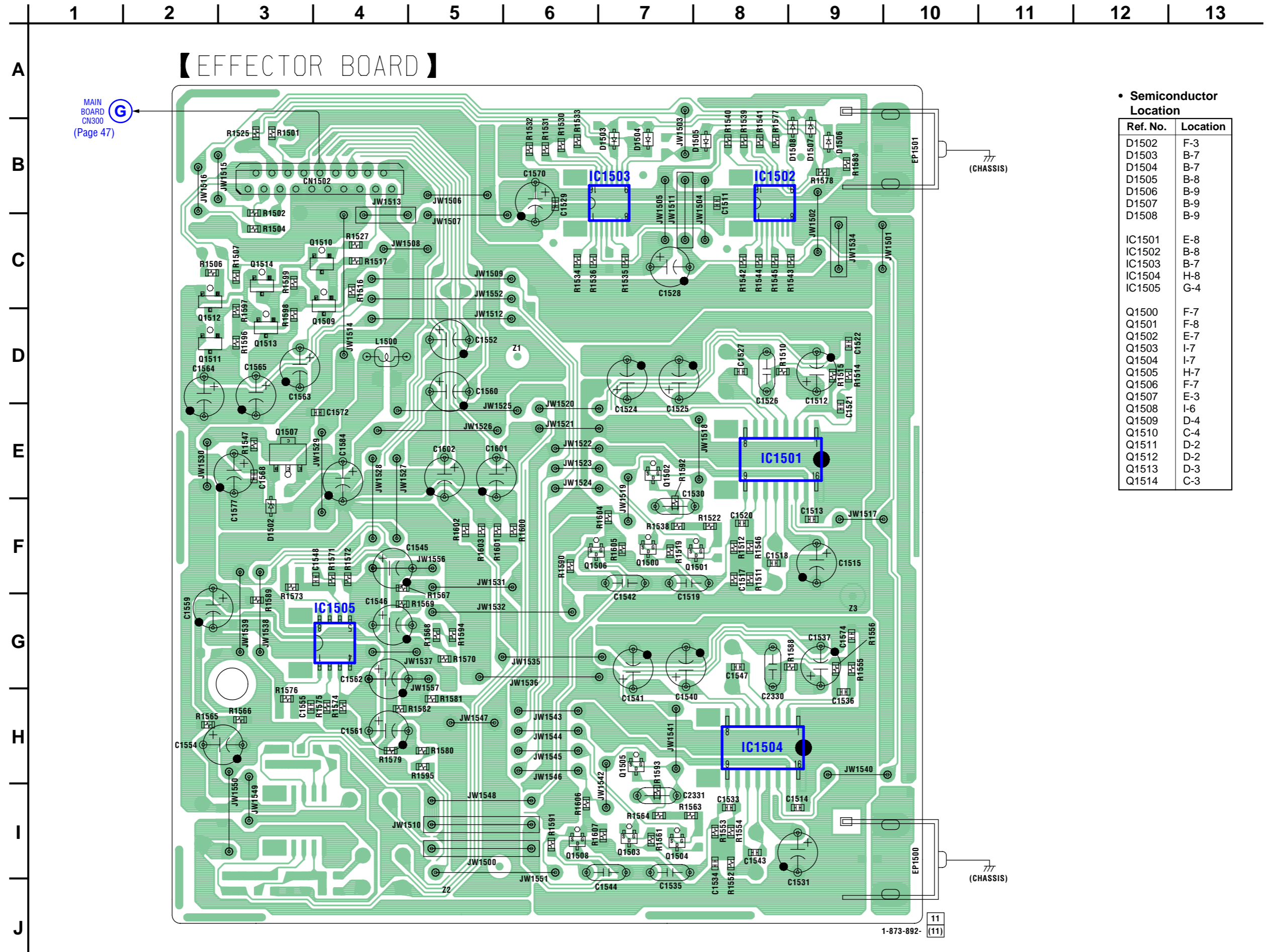
Ref. No.	Location
D901	D-13
D902	D-13
IC901	C-12
IC915	B-2
IC921	C-10

7-20. SCHEMATIC DIAGRAM – USB Section –

- See page 70 for Waveform.
- See page 75 for IC Block Diagram.
- See page 84 for IC Pin Description of IC901.



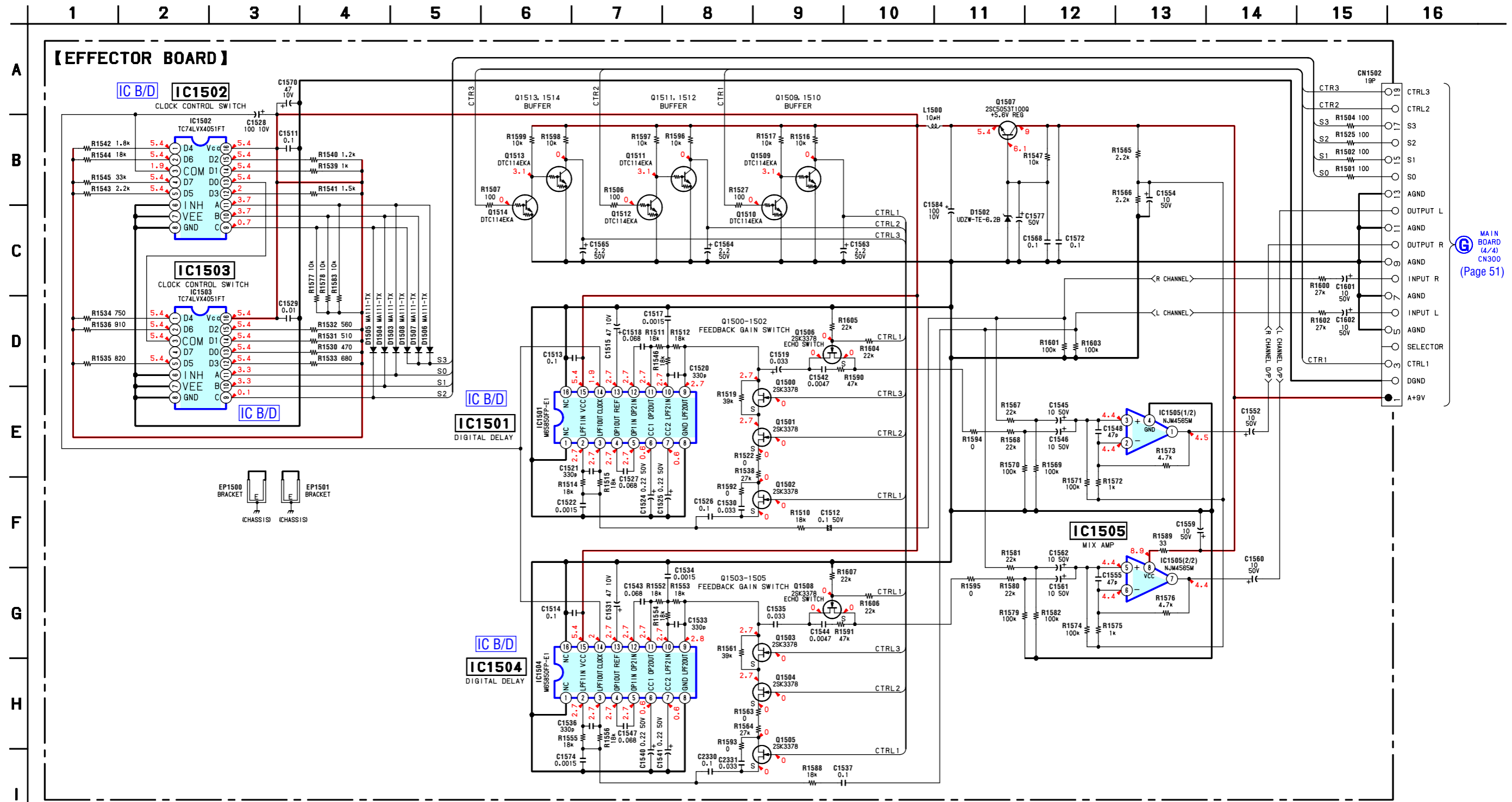
7-21. PRINTED WIRING BOARD – EFFECTOR Section – • See page 34 for Circuit Boards Location.  : Uses unleaded solder.




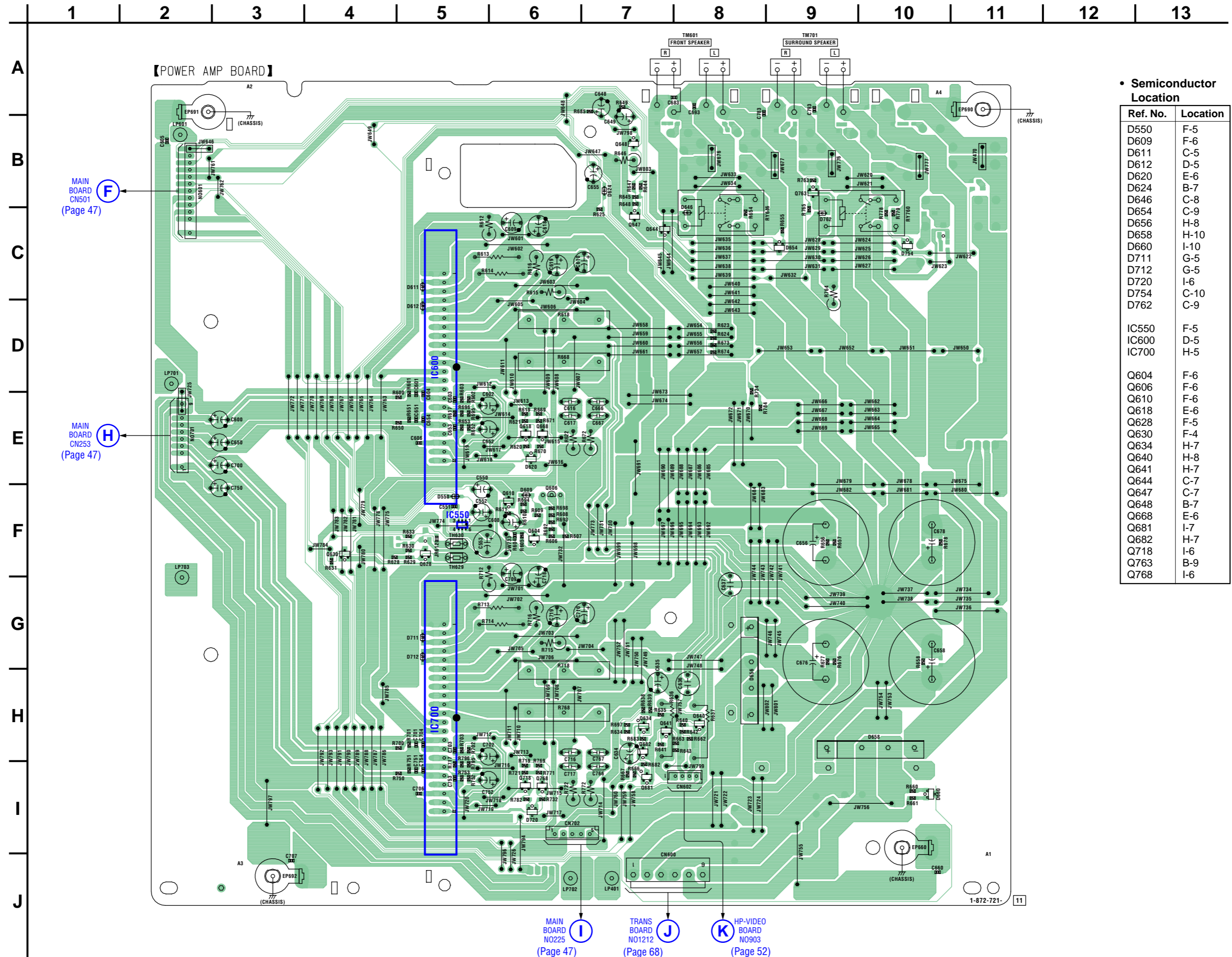
• Semiconductor Location

Ref. No.	Location
D1502	F-3
D1503	B-7
D1504	B-7
D1505	B-8
D1506	B-9
D1507	B-9
D1508	B-9
IC1501	E-8
IC1502	B-8
IC1503	B-7
IC1504	H-8
IC1505	G-4
Q1500	F-7
Q1501	F-8
Q1502	E-7
Q1503	I-7
Q1504	I-7
Q1505	H-7
Q1506	F-7
Q1507	E-3
Q1508	I-6
Q1509	D-4
Q1510	C-4
Q1511	D-2
Q1512	D-2
Q1513	D-3
Q1514	C-3

7-22. SCHEMATIC DIAGRAM – EFFECTOR Section – See page 75 for IC Block Diagrams.



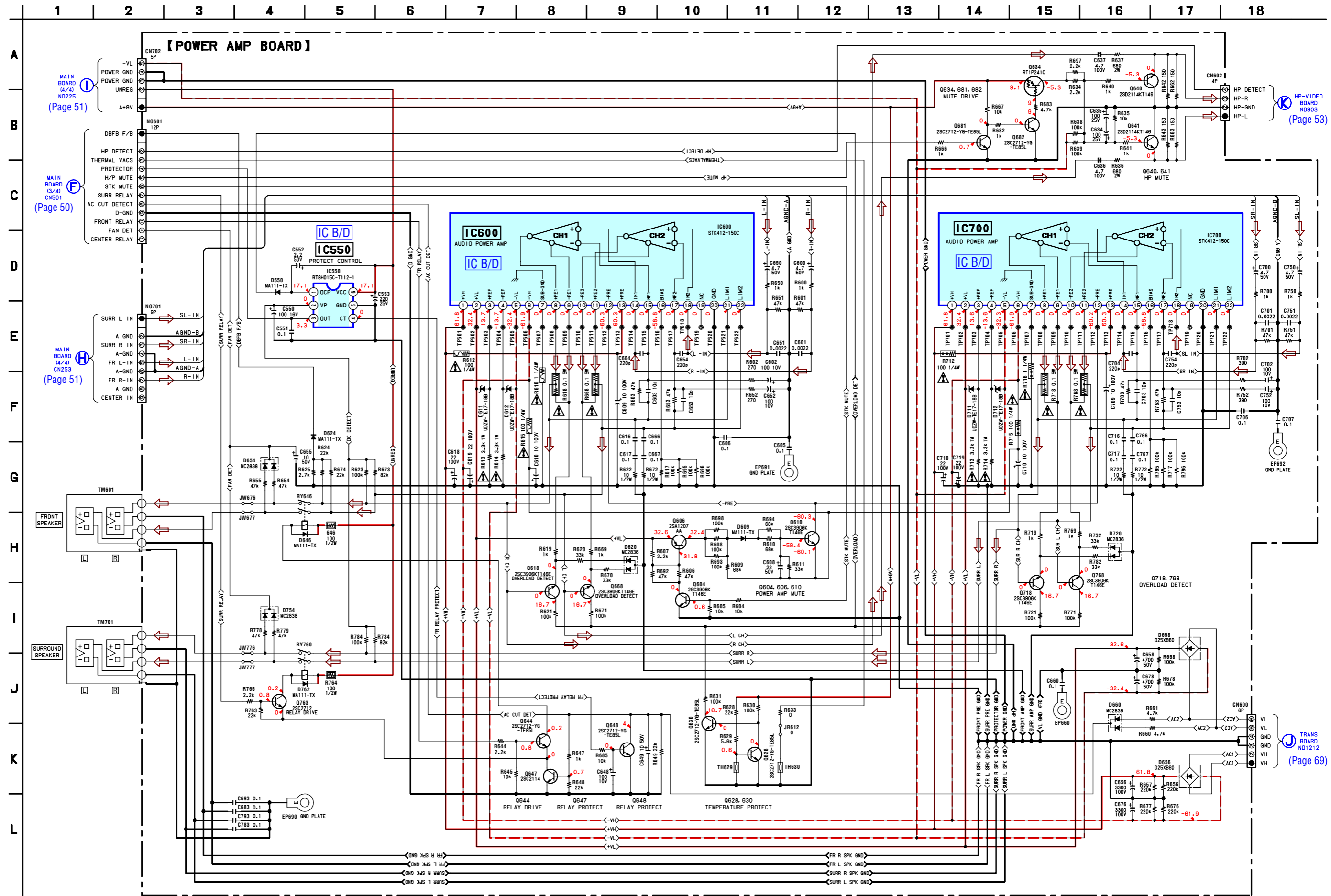
7-23. PRINTED WIRING BOARD – POWER AMP Section – See page 34 for Circuit Boards Location.  : Uses unleaded solder.



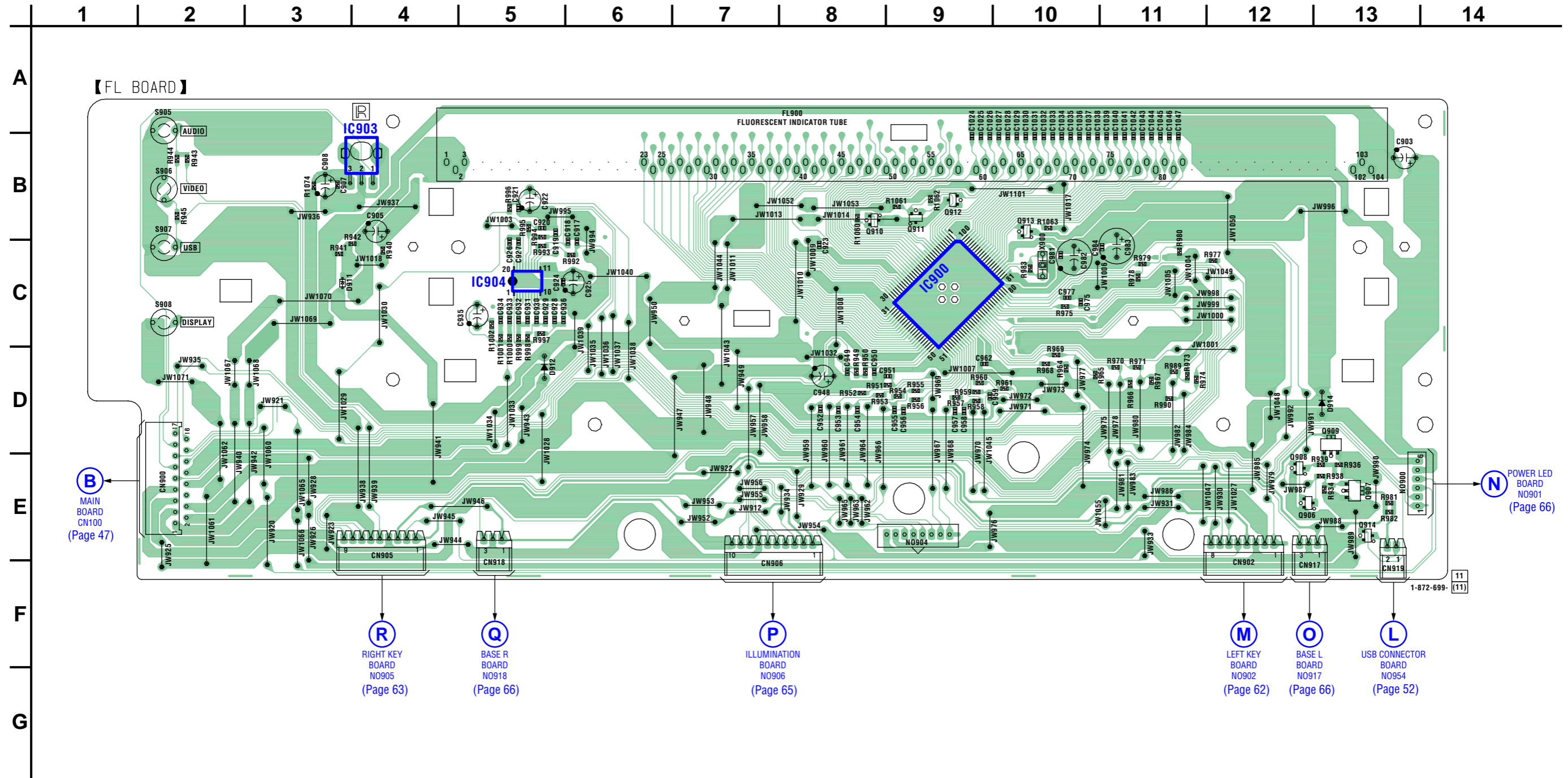
• Semiconductor Location

Ref. No.	Location
D550	F-5
D609	F-6
D611	C-5
D612	D-5
D620	E-6
D624	B-7
D646	C-8
D654	C-9
D656	H-8
D658	H-10
D660	I-10
D711	G-5
D712	G-5
D720	I-6
D754	C-10
D762	C-9
IC550	F-5
IC600	D-5
IC700	H-5
Q604	F-6
Q606	F-6
Q610	F-6
Q618	E-6
Q628	F-5
Q630	F-4
Q634	H-7
Q640	H-8
Q641	H-7
Q644	C-7
Q647	C-7
Q648	B-7
Q668	E-6
Q681	I-7
Q682	H-7
Q718	I-6
Q763	B-9
Q768	I-6

7-24. SCHEMATIC DIAGRAM – POWER AMP Section – See page 74 for IC Block Diagrams.



7-25. PRINTED WIRING BOARD – FL Section – See page 34 for Circuit Boards Location.  : Uses unleaded solder.



B
MAIN BOARD
CN100
(Page 47)

N POWER LED BOARD
N0901
(Page 66)

R
RIGHT KEY BOARD
N0905
(Page 63)

Q
BASE R BOARD
N0918
(Page 66)

P
ILLUMINATION BOARD
N0906
(Page 65)

M
LEFT KEY BOARD
N0902
(Page 62)

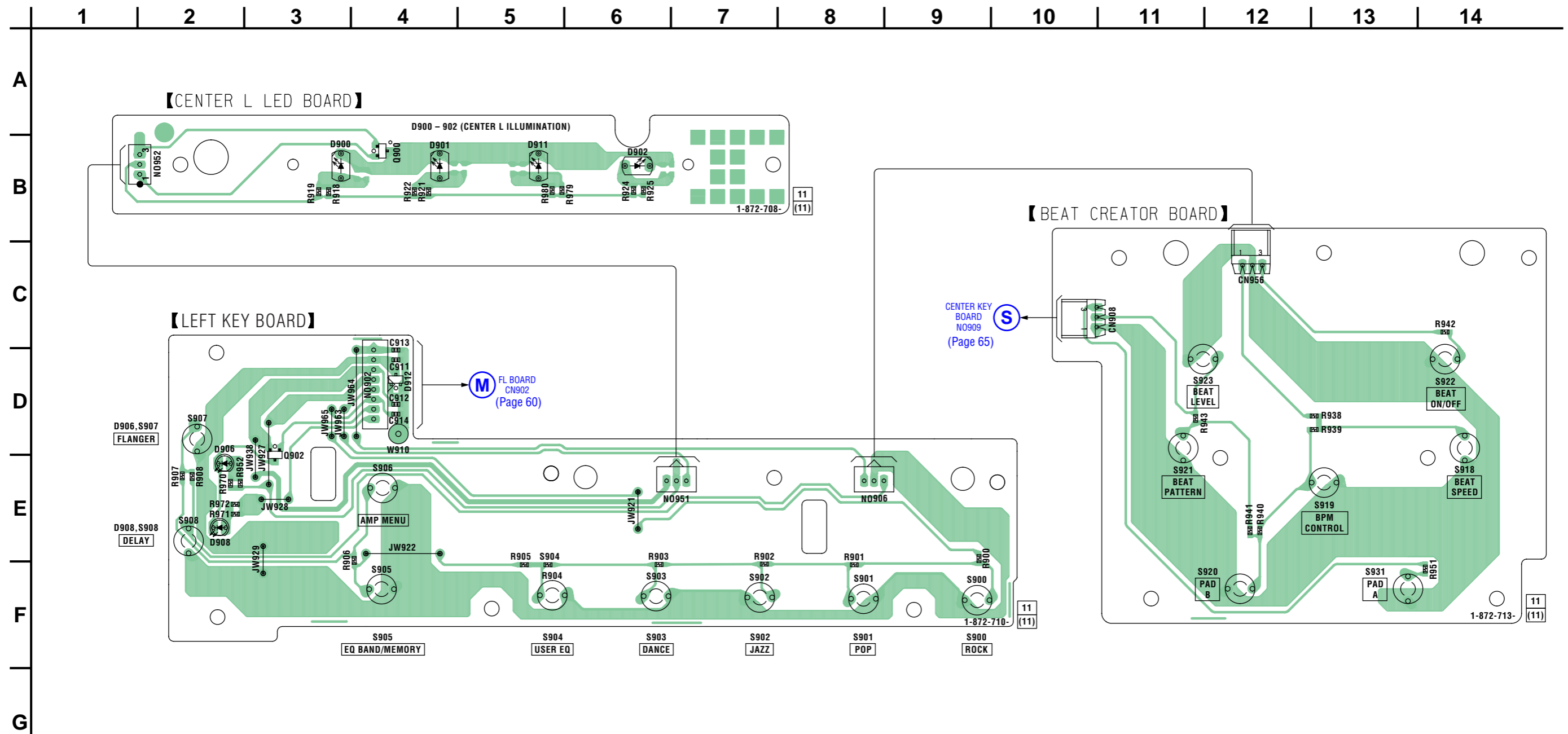
O
BASE L BOARD
N0917
(Page 66)

L
USB CONNECTOR BOARD
N0954
(Page 52)

• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D911	C-3	Q907	E-13
D912	D-5	Q908	E-12
D914	D-13	Q909	D-13
		Q910	B-8
IC900	C-9	Q911	B-9
IC903	B-4	Q912	B-9
IC904	C-5	Q913	B-10
		Q914	E-13
Q906	E-12		

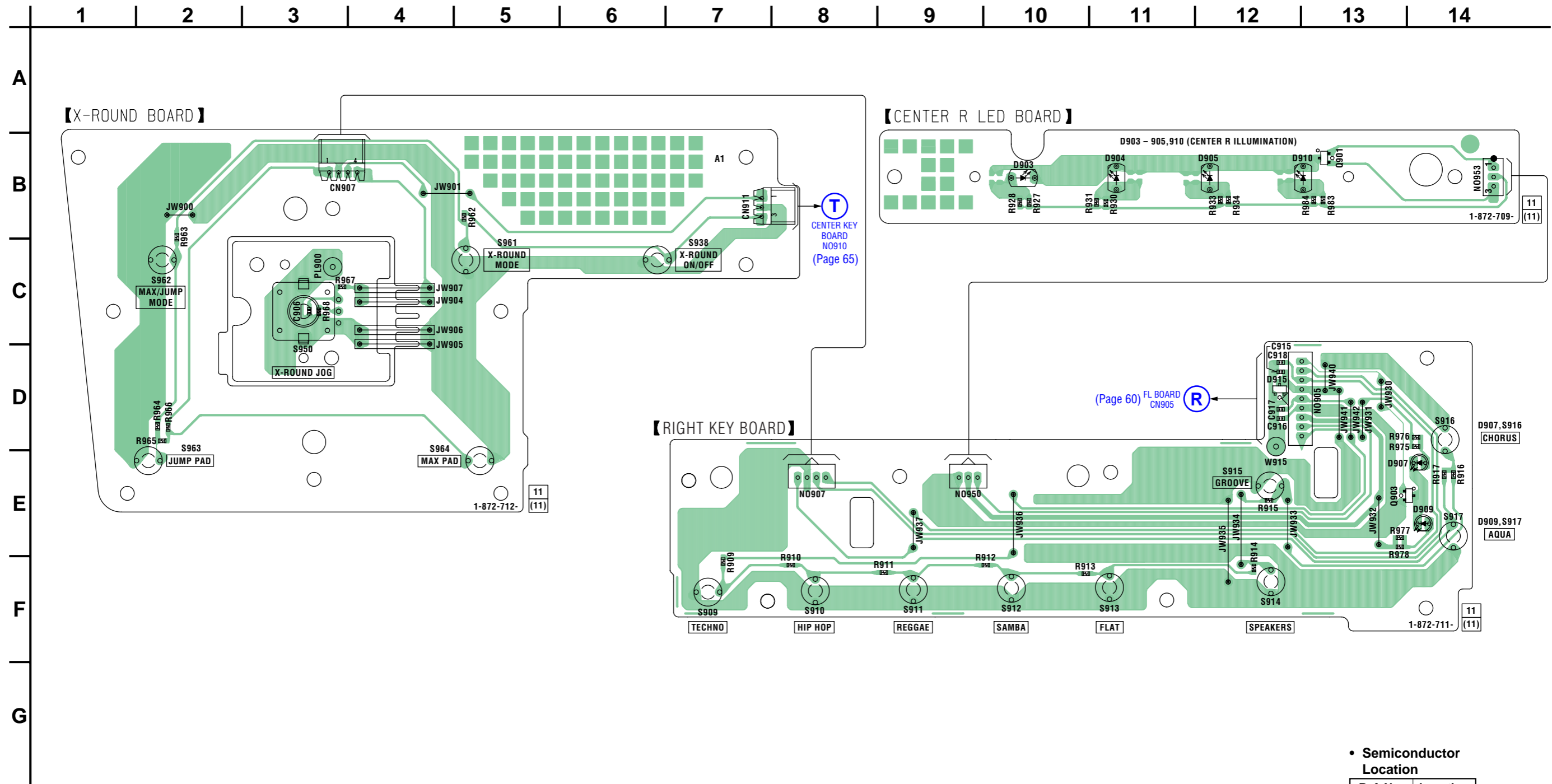
7-27. PRINTED WIRING BOARDS – KEY Section (1/2) – • See page 34 for Circuit Boards Location.  : Uses unleaded solder.



• Semiconductor Location

Ref. No.	Location
D900	B-3
D901	B-4
D902	B-6
D906	D-2
D908	E-2
D911	B-5
D912	D-4
Q900	B-4
Q902	D-3

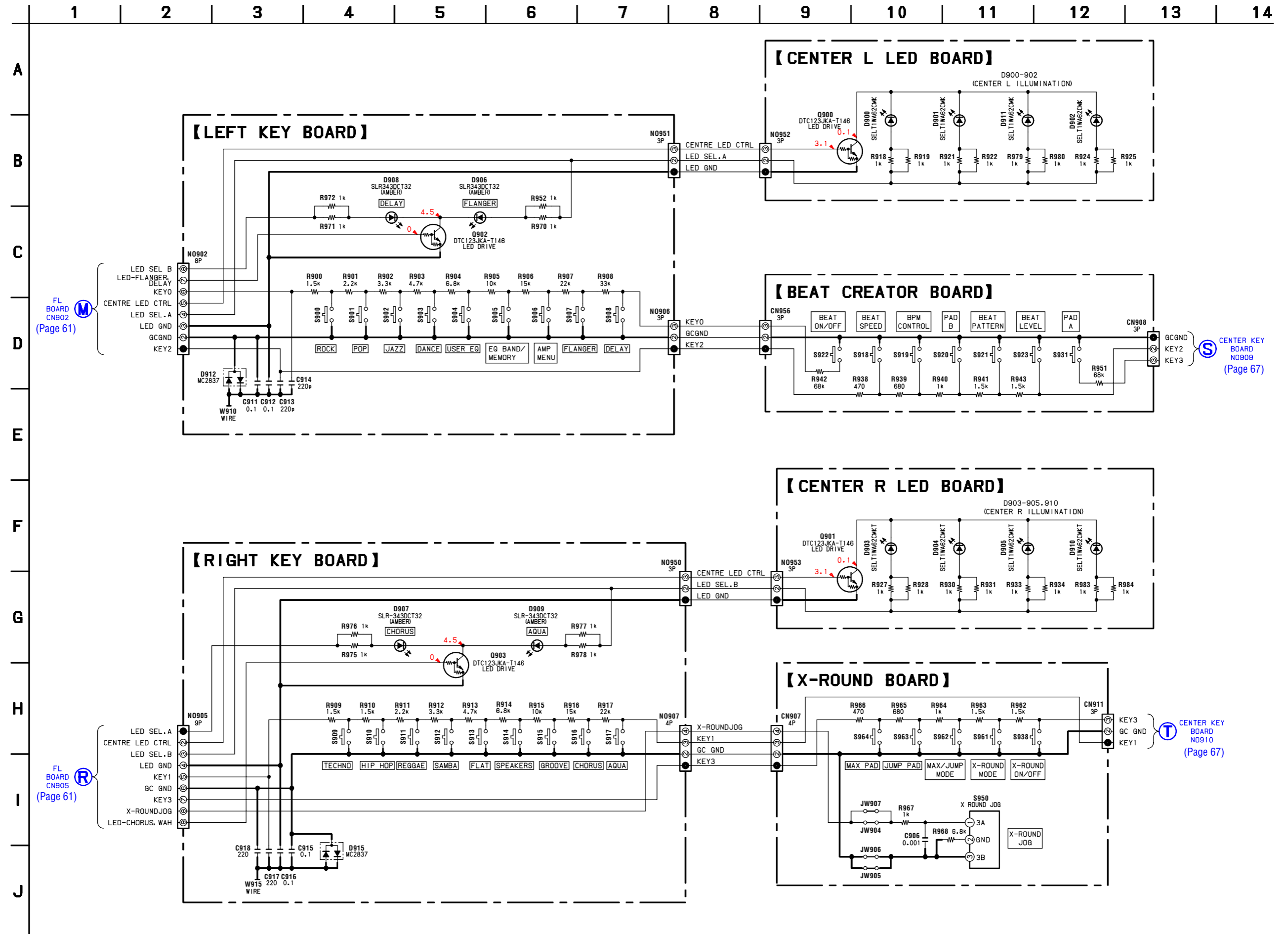
7-28. PRINTED WIRING BOARDS – KEY Section (2/2) – • See page 34 for Circuit Boards Location.  : Uses unleaded solder.



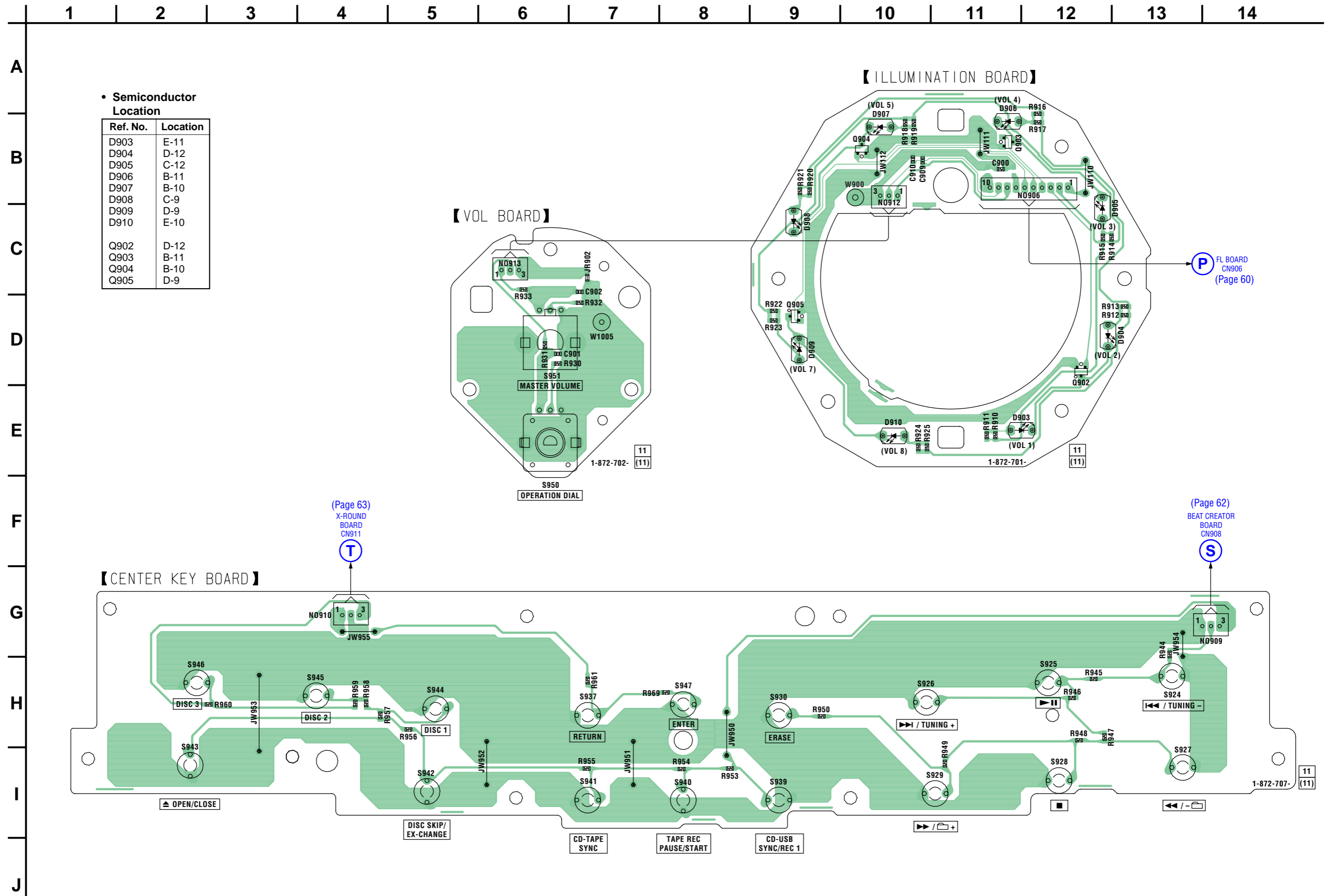
• Semiconductor Location

Ref. No.	Location
D903	B-10
D904	B-11
D905	B-12
D907	E-14
D909	E-14
D910	B-13
D915	D-12
Q901	B-13
Q903	E-13

7-29. SCHEMATIC DIAGRAM – KEY Section –



7-30. PRINTED WIRING BOARDS – LED Section (1/2) – See page 34 for Circuit Boards Location.  : Uses unleaded solder.



• Semiconductor Location

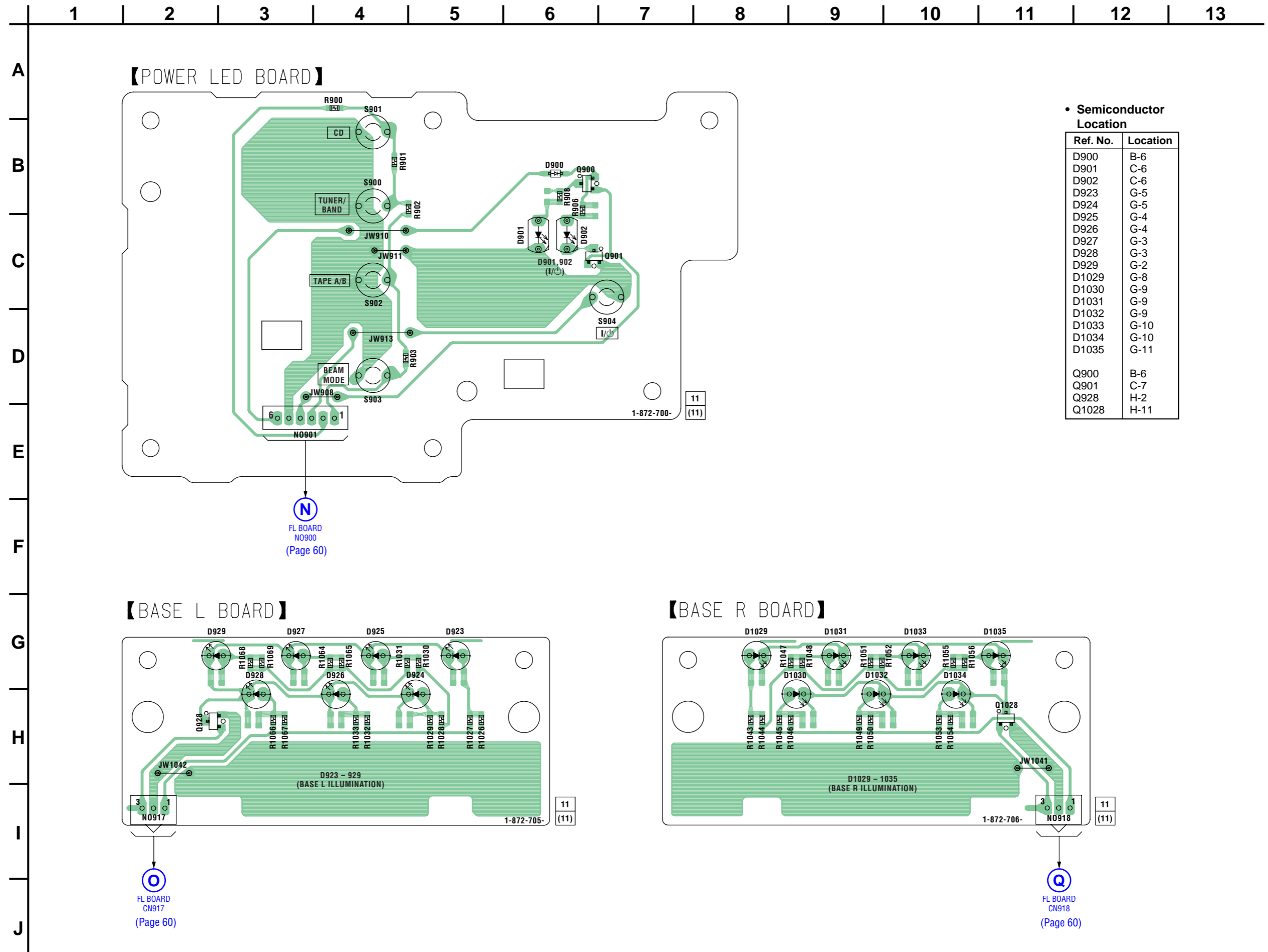
Ref. No.	Location
D903	E-11
D904	D-12
D905	C-12
D906	B-11
D907	B-10
D908	C-9
D909	D-9
D910	E-10
Q902	D-12
Q903	B-11
Q904	B-10
Q905	D-9

(Page 63)
X-ROUND BOARD
CN911
T

(Page 62)
BEAT CREATOR BOARD
CN908
S

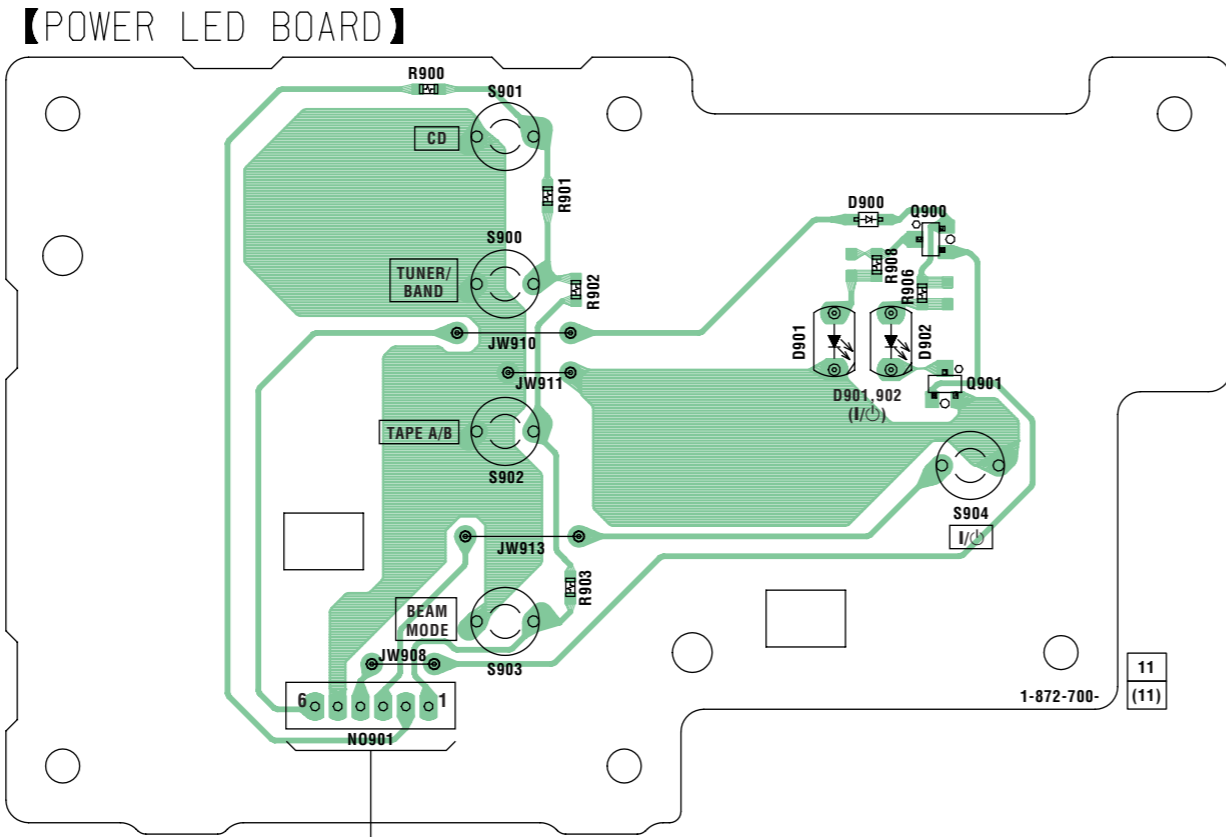
P FL BOARD
CN906
(Page 60)

7-31. PRINTED WIRING BOARDS – LED Section (2/2) – See page 34 for Circuit Boards Location.  : Uses unleaded solder.

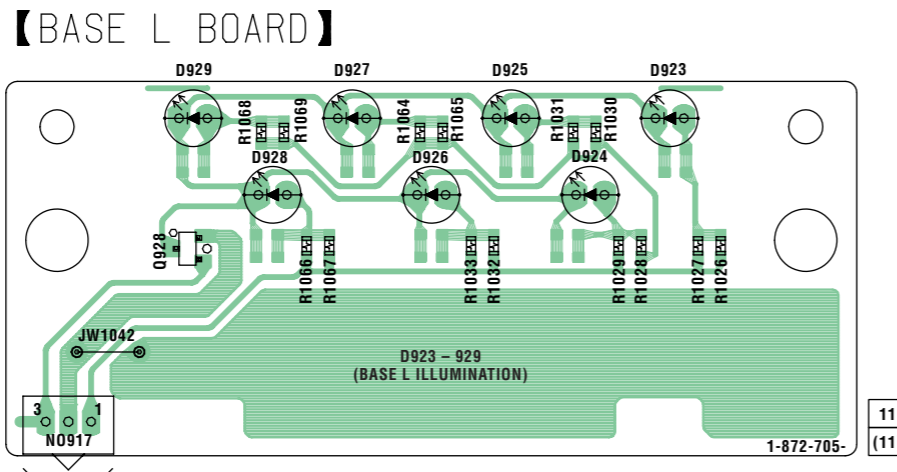


• Semiconductor Location

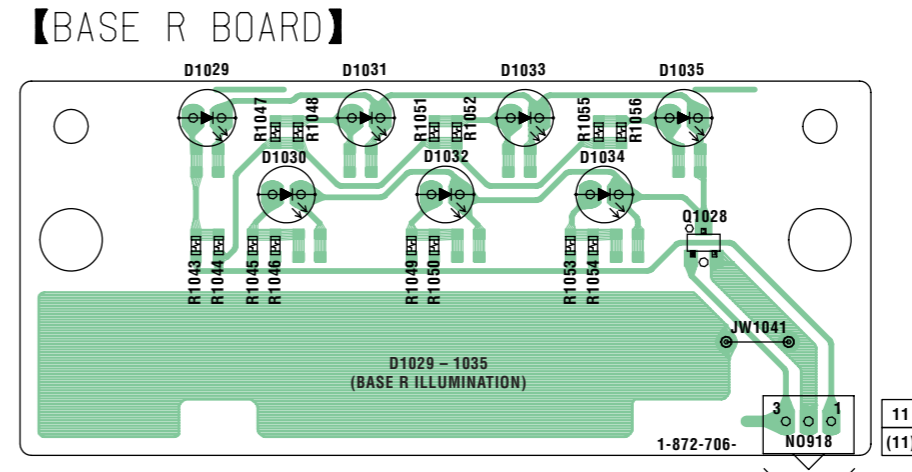
Ref. No.	Location
D900	B-6
D901	C-6
D902	C-6
D923	G-5
D924	G-5
D925	G-4
D926	G-4
D927	G-3
D928	G-3
D929	G-2
D1029	G-8
D1030	G-9
D1031	G-9
D1032	G-9
D1033	G-10
D1034	G-10
D1035	G-11
Q900	B-6
Q901	C-7
Q928	H-2
Q1028	H-11




FL BOARD
N0900
(Page 60)

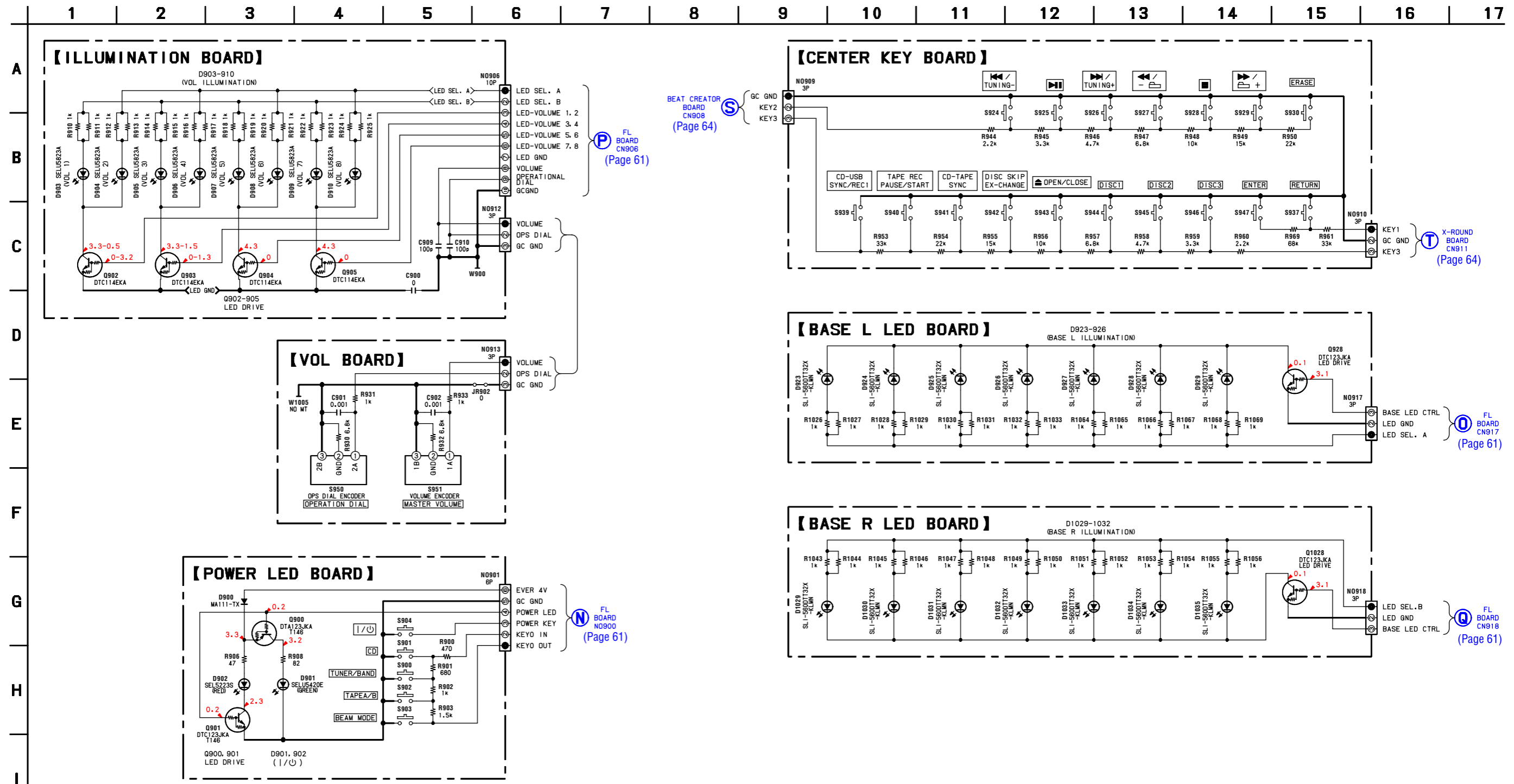




FL BOARD
CN917
(Page 60)

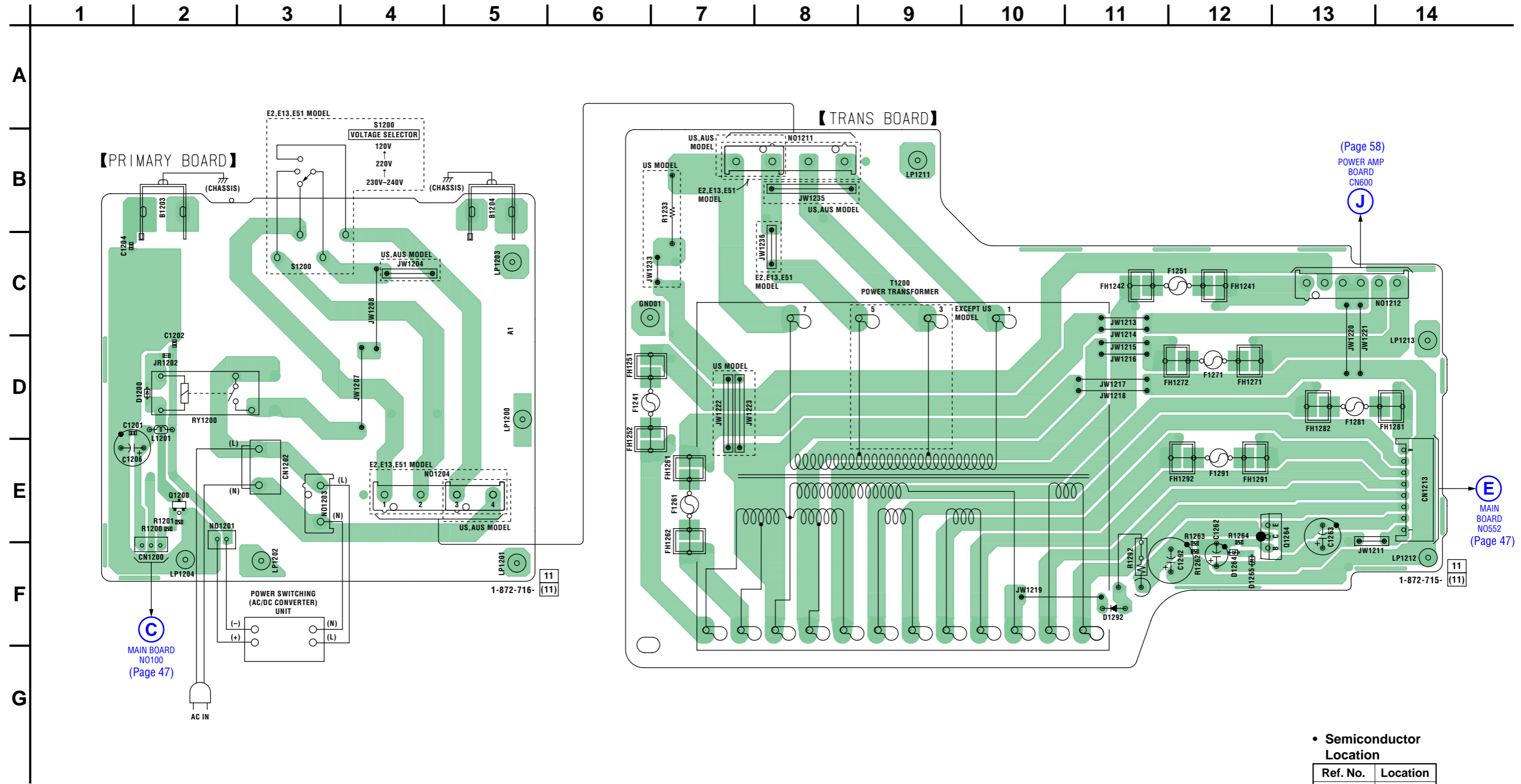



FL BOARD
CN918
(Page 60)

7-32. SCHEMATIC DIAGRAM – LED Section –



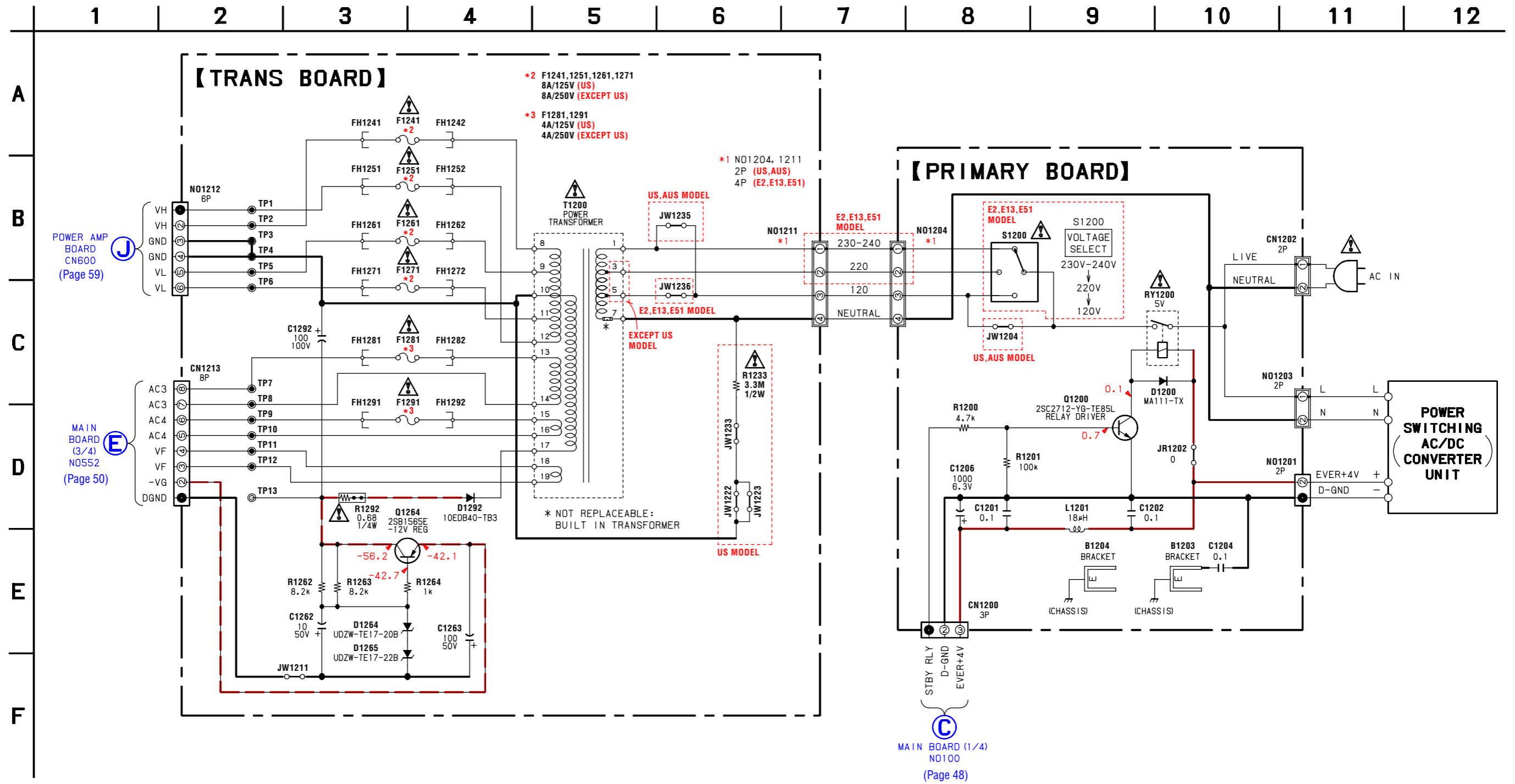
7-33. PRINTED WIRING BOARDS – POWER Section – • See page 34 for Circuit Boards Location.  : Uses unleaded solder.



• Semiconductor Location

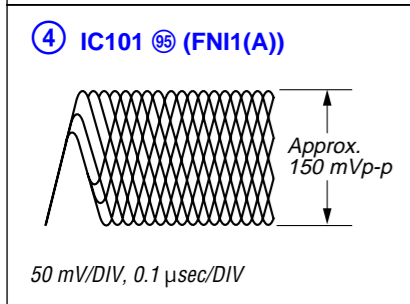
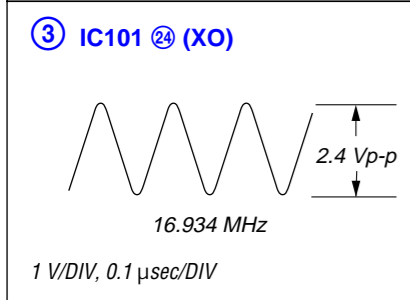
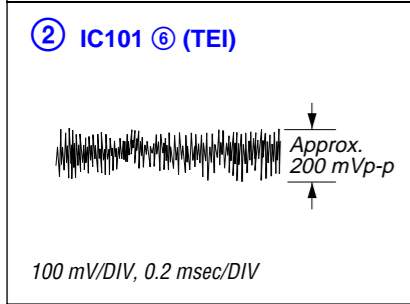
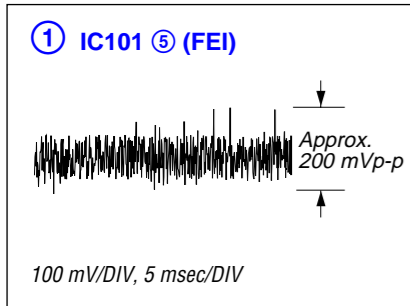
Ref. No.	Location
D1200	D-2
D1264	F-12
D1265	F-12
D1292	F-11
Q1200	E-2
Q1264	E-13

7-34. SCHEMATIC DIAGRAM – POWER Section –

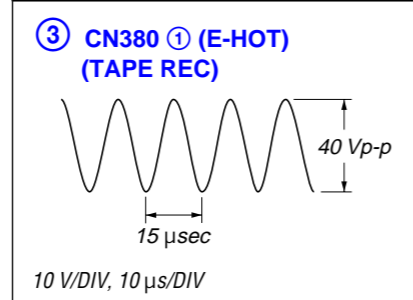
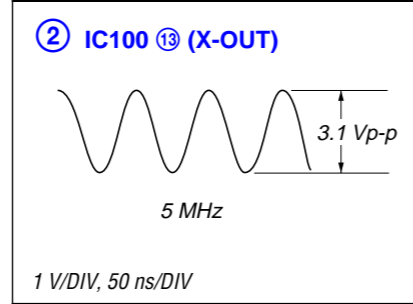
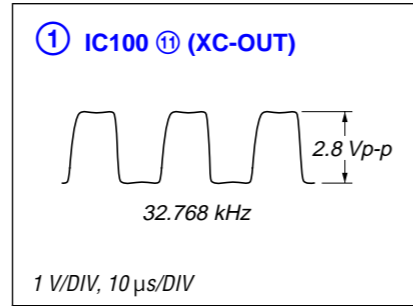


• Waveforms

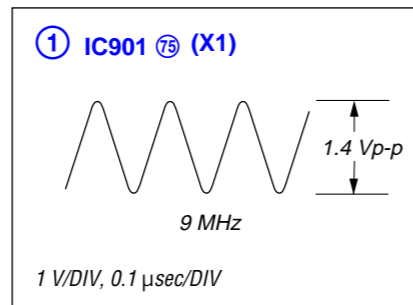
– DB91 Board – (CD PLAY)



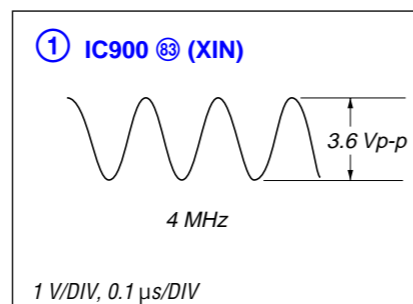
– MAIN Board –



– USB Board –

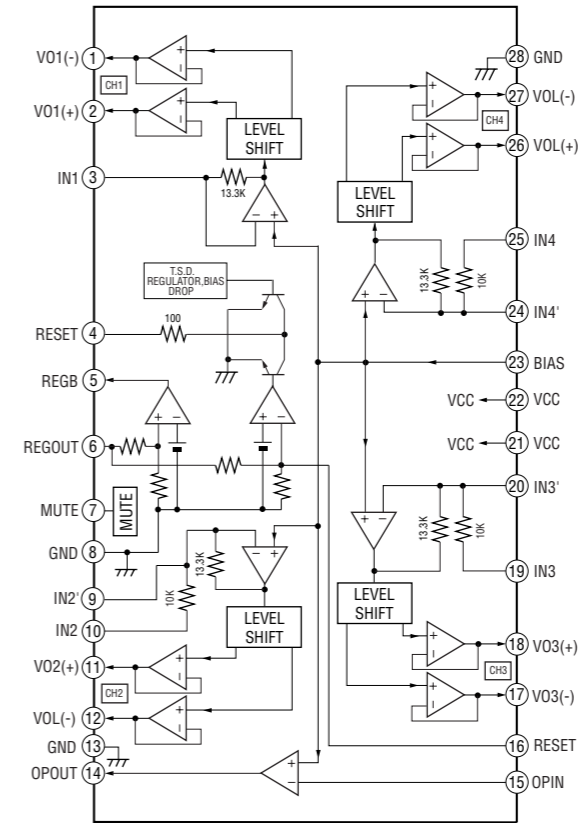


– FL Board –

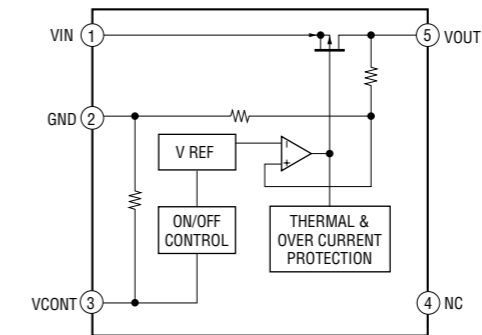


• IC Block Diagrams

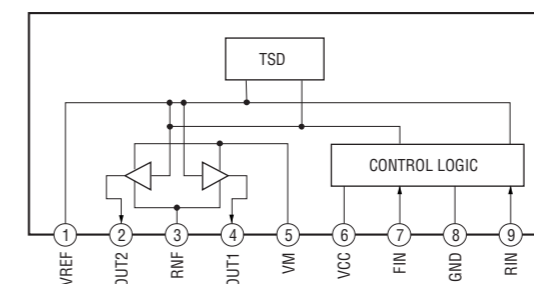
IC401 BA5826SFP-E2 (BD91 Board)



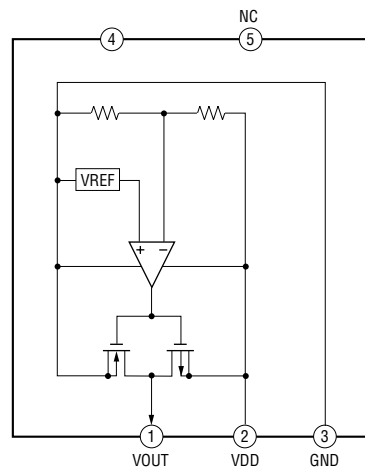
IC201 TK63115SCL-G@GT (BD91 Board)



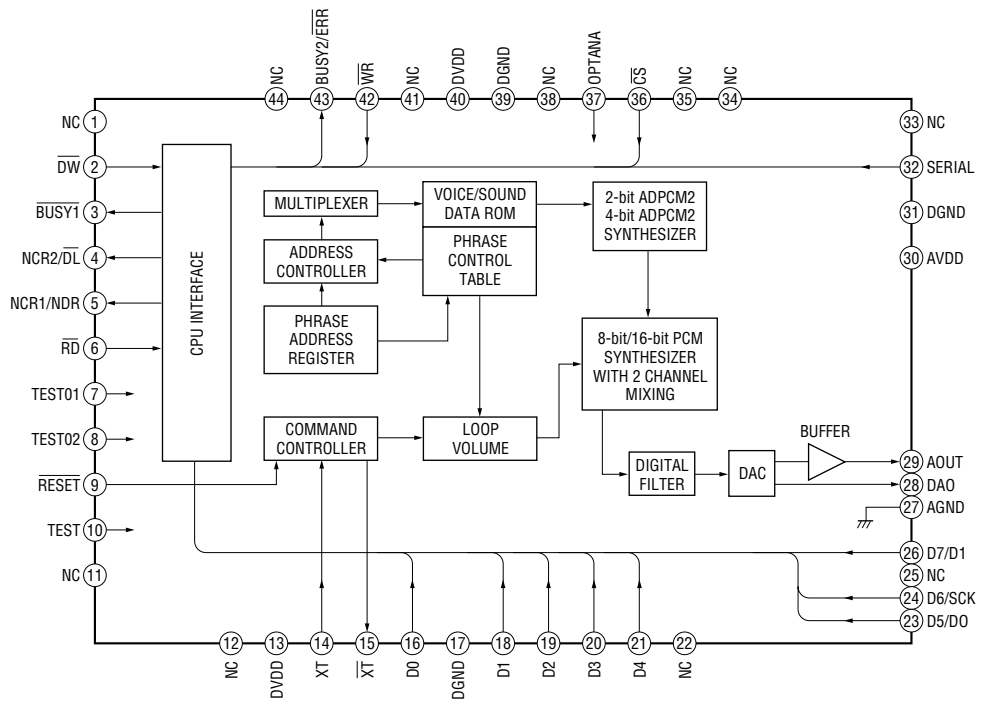
IC701 BA6956AN (DRIVER Board)
IC712 BA6956AN (DRIVER Board)



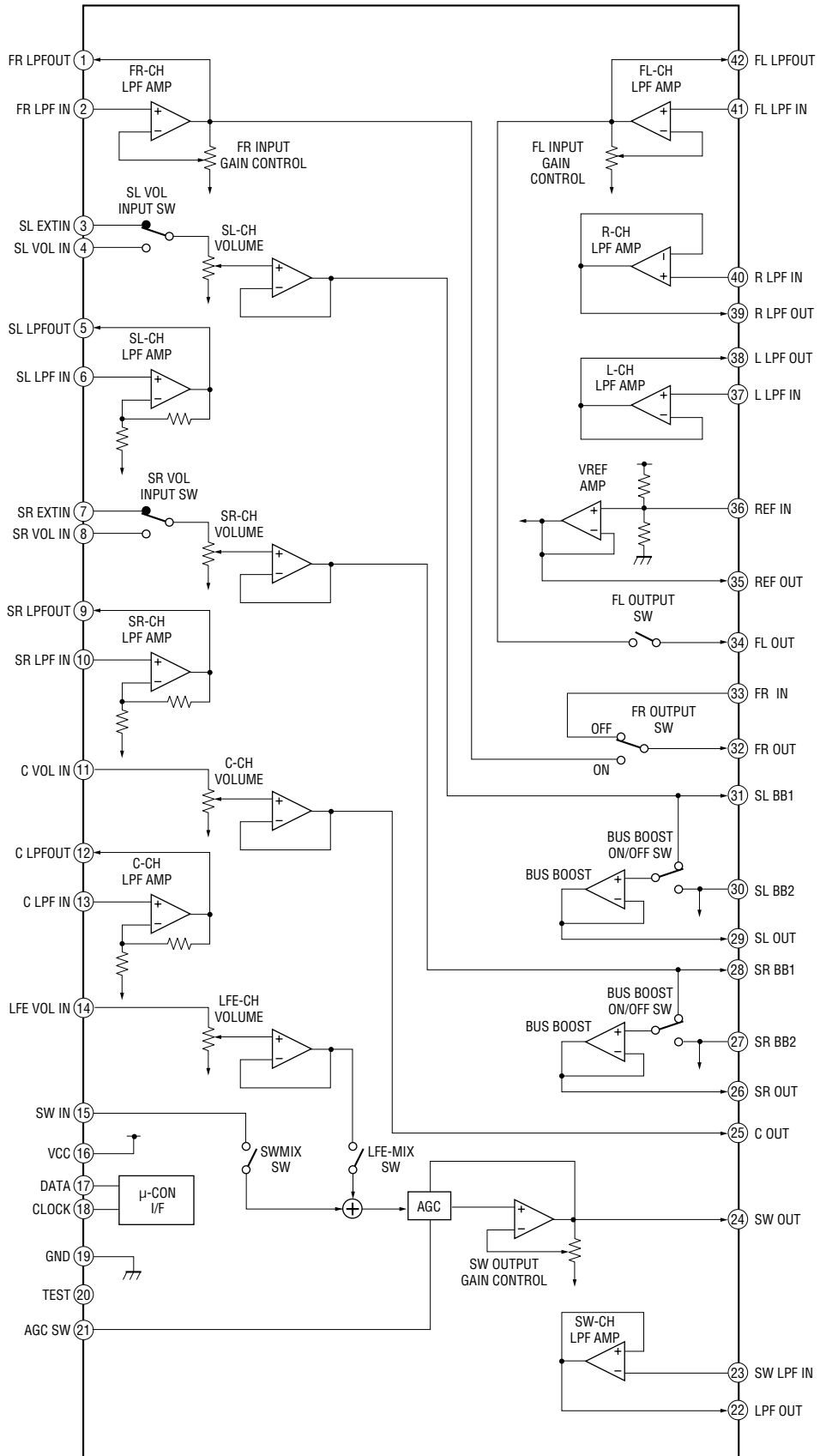
IC202 BD4929G-TR (MAIN Board (1/4))



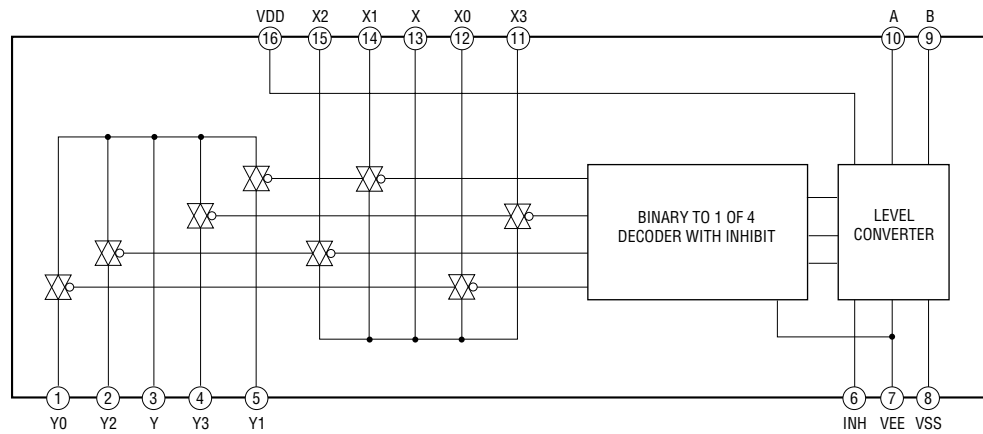
IC120 ML2252-254GAZ03A (MAIN Board (1/4))



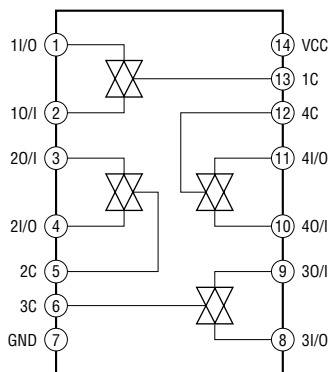
IC201 M61530FP-D60G (MAIN Board (4/4))



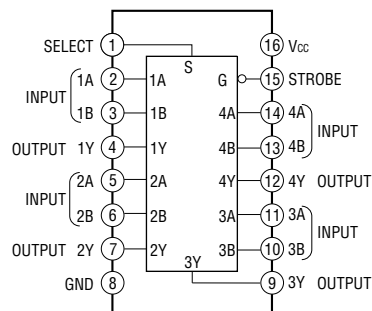
IC500 BU4052BCF-E2 (MAIN Board (4/4))
IC501 BU4052BCF-E2 (MAIN Board (4/4))



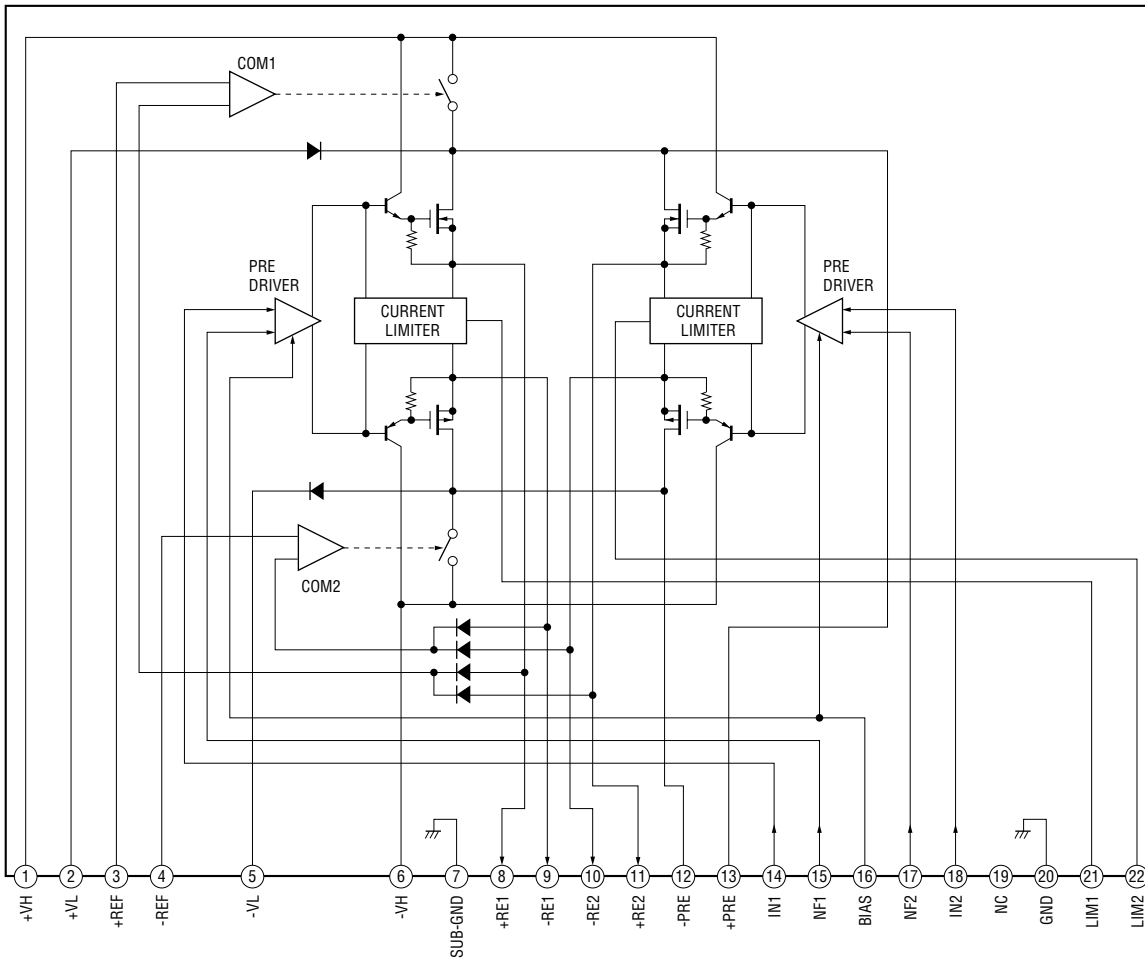
IC151 TC74HC4066AFT(EL) (MAIN Board (1/4))
IC152 TC74HC4066AFT(EL) (MAIN Board (1/4))



IC153 TC74VHC157FT(EKJ) (MAIN Board (1/4))

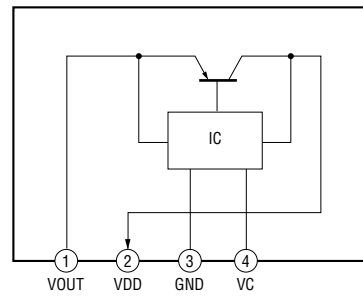
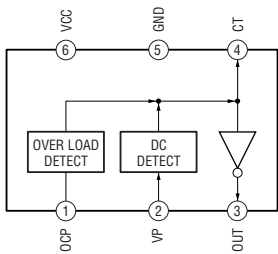


IC600 STK412-150C (POWER AMP Board)
 IC700 STK412-150C (POWER AMP Board)

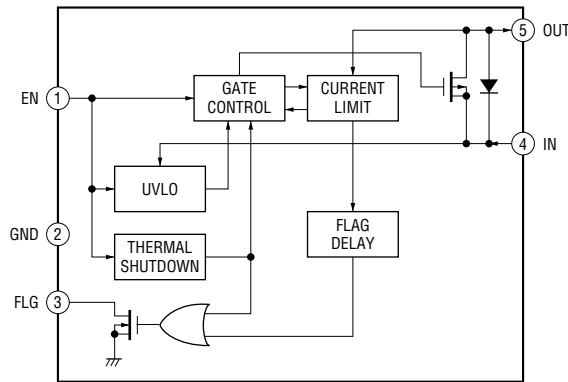


IC550 RT8H015C-T112-1 (POWER AMP Board)

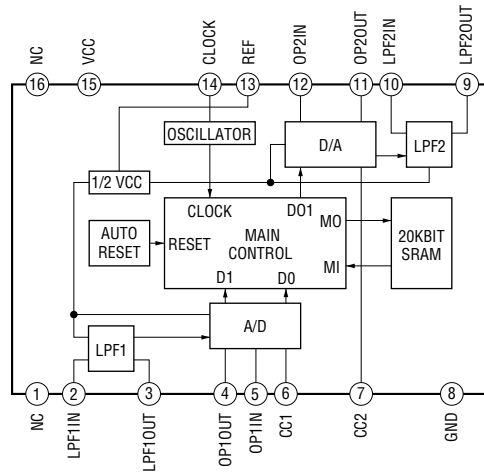
IC556 PQ05RD21J00H (MAIN Board (3/4))



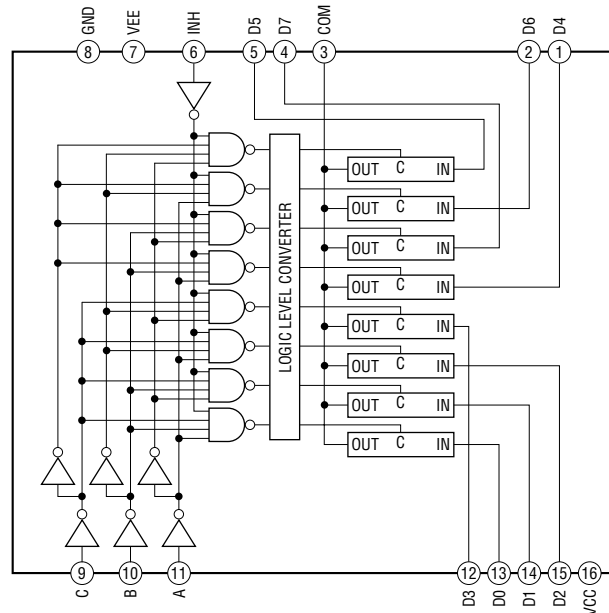
IC915 R5523N001B-TR-F (USB Board)



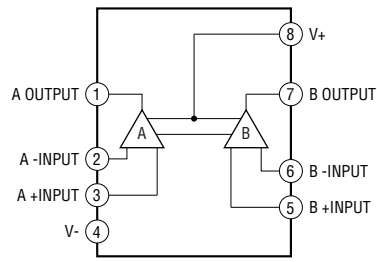
**IC1501 M65850FP-E1 (EFFECTOR Board)
IC1504 M65850FP-E1 (EFFECTOR Board)**



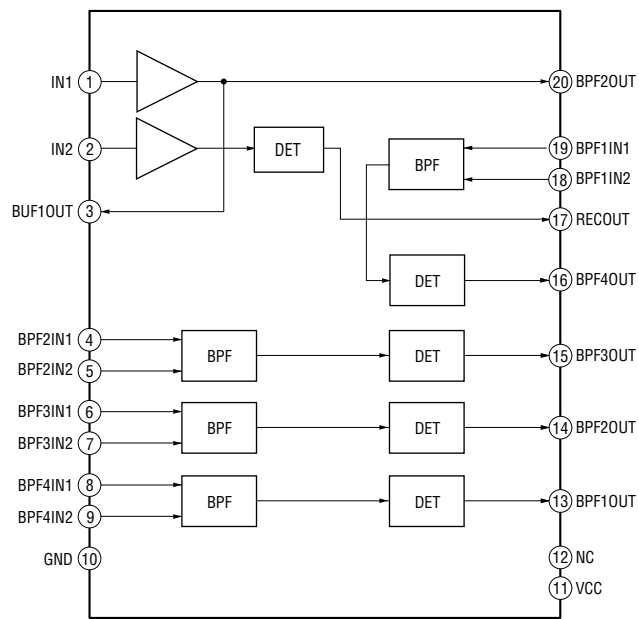
**IC1502 TC74LVX4051FT (EFFECTOR Board)
IC1503 TC74LVX4051FT (EFFECTOR Board)**



IC905 NJM4565M (MIC Board)



IC904 NJM2760V-TE2 (FL Board)



• IC Pin Descriptions

IC101 TC94A70FG-008 (S, D) (RF AMP, FOCUS/TRACKING ERROR AMP, DIGITAL SIGNAL PROCESSOR, DIGITAL SERVO PROCESSOR, DIGITAL FILTER, D/A CONVERTER) (BD91 BOARD)

Pin No.	Pin Name	I/O	Pin Description
1	AVSS3	—	Ground
2	RFZi	I	RF ripple zero crossing signal input
3	RFRP	O	RF ripple signal output
4	SBAD/RFDC	O	Sub beam addition signal or RF peak detection signal output Not used. (Open)
5	FEi	O	Focus error signal output (Check pin)
6	TEi	O	Tracking error signal output
7	TEZi	I	Tracking error zero crossing signal input
8	AVDD3	—	Power supply (+3.3 V)
9	FOo	O	Focus coil drive signal output
10	TRo	O	Tracking coil drive signal output
11	VREF	I	Reference voltage (+1.65 V) input
12	FMO	O	Sled motor drive signal output
13	DMO	O	Spindle motor drive signal output
14	VSSP3	—	Ground
15	VCOi	I	VCO control voltage input
16	VDDP3	—	Power supply (+3.3 V)
17	VDD1	—	Power supply (+1.5 V)
18	VSS1	—	Ground
19	FGiN	I	FG signal input Not used. (Connected to ground.)
20	IO0 (/HSO)	I	Disc inner position detection signal input
21	IO1 (/UHSO)	O	Not used. (Open)
22	XVSS3	—	Ground
23	XI	I	System clock input (16.9344 MHz)
24	XO	O	System clock output (16.9344 MHz)
25	XVDD3	—	Power supply (+3.3 V)
26	DVSS3	—	Ground
27	RO	O	Analog audio (R-ch) signal output
28	DVDD3	—	Power supply (+3.3 V)
29	DVR	O	Reference voltage (+1.65 V) output
30	LO	O	Analog audio (L-ch) signal output
31	DVSS3	—	Ground
32	VDDT3	—	Power supply (+3.3 V)
33	VSS1	—	Ground
34	VDD1	—	Power supply (+1.5 V)
35	VDDM1	—	Power supply (+1.5 V)
36	SRAMSTB	I	S-RAM standby mode control signal input Fixed at "L" in this set.
37	\overline{RST}	I	Reset signal input from the system controller "L": reset
38, 39	BUS0, BUS1	I/O	Serial data input/output from the system controller or USB controller
40	BUS2 (SO)	I/O	Serial data input/output from the system controller or USB controller
41	BUS3 (SI)	I/O	Serial data input/output from the system controller or USB controller
42	BUCK (CLK)	I	Serial data transfer clock signal input from the system controller or USB controller
43	\overline{CCE}	I	Chip enable signal input from the system controller or USB controller
44	TEST	I	Setting pin for test mode Normally fixed at "L"
45	IRQ	I	Interrupt request signal input

Pin No.	Pin Name	I/O	Pin Description
46	AoUT3 (PO4)	O	Request signal output to the USB controller Not used. (Open)
47	AoUT2 (PO5)	O	Audio data output to the USB controller
48	PIO0	O	Request signal output to the system controller or USB controller
49	PIO1	O	ST REQ signal output
50	PIO2	O	Not used. (Open)
51	PIO3	I	Gate signal input from the USB controller
52	VSS1	—	Ground
53	VDDT3	—	Power supply (+3.3 V)
54	SBSY	O	Subcode block sync signal output to the system controller
55	SBOK/FOK	O	Not used. (Open)
56	IPF	O	Not used. (Open)
57	SFSY/LOCK	O	Not used. (Open)
58	ZDET	O	Zero detection signal output Not used. (Open)
59	GPIN	I	Not used. (Connected to ground.)
60	MS	I	Microcomputer interface mode selection signal input Fixed at "H" in this set.
61	DOUT (PO6)	O	Digital audio data output Not used in this set. (Open)
62	AOUT1 (PO7)	O	Audio data output Not used in this set. (Open)
63	BCK (PO8)	O	Bit clock signal output to the USB controller
64	LRCK (PO9)	O	L/R sampling clock signal output
65	AIN (PI4)	I	Digital audio data input from the USB controller
66	BCKi (PI5)	I	Bit clock signal input from the USB controller
67	LRCKi (PI6)	I	L/R sampling clock signal input from the USB controller
68	VDD1	—	Power supply (+1.5 V)
69	VSS	—	Ground
70	AWRC	—	Not used. (Open)
71	PVDD3	—	Power supply (+3.3 V)
72	PDO	O	Phase error margin signal between EFM signal and PLCK signal output
73	TMAXS	O	TMAX detection signal output Not used. (Open)
74	TMAX	O	TMAX detection signal output
75	LPFN	I	Inverted signal input from the operation amplifier for PLL loop filter
76	LPFo	O	Signal output from the operation amplifier for PLL loop filter
77	PVREF	I	Reference voltage (+1.65 V) input
78	VCOF	O	VCO filter output
79	PVSS3	—	Ground
80	SLCo	O	EFM slice level output
81	RFi	I	RF signal input
82	RFRPi	I	RF ripple signal input
83	RFEQo	O	EFM slice level output
84	VRo	O	Reference voltage (+1.65 V) output
85	RESiN	O	External resistor connection pin
86	VMDiR	O	Reference voltage (+1.65 V) output for automatic power control circuit
87	TESTR	O	Low-pass filter terminal for RFEQO offset correction
88	AGCi	I	RF signal amplitude adjustment amplification input
89	RFo	O	RF signal generation amplification output
90	RVDD3	—	Power supply (+3.3 V)
91	LDo	O	Laser diode on/off control signal output to the automatic power control circuit "H": laser diode on

Pin No.	Pin Name	I/O	Pin Description
92	MDi	I	Light amount monitor input from the laser diode of optical pick-up block
93	RVSS3	—	Ground
94	FNi2 (C)	I	Main beam (C) input from the optical pick-up block
95	FNi1 (A)	I	Main beam (A) input from the optical pick-up block
96	FPI2 (D)	I	Main beam (D) input from the optical pick-up block
97	FPI1 (B)	I	Main beam (B) input from the optical pick-up block
98	TPi (F)	I	Sub beam (F) input from the optical pick-up block
99	TNPC	O	External capacitor connection pin
100	TNi (E)	I	Sub beam (E) input from the optical pick-up block

IC100 M30624MGP-B33FPU0 (SYSTEM CONTROL) (MAIN BOARD (1/4)) (US Model)

IC100 M30624MGP-B34FPU0 (SYSTEM CONTROL) (MAIN BOARD (1/4)) (EXCEPT US Model)

Pin No.	Pin Name	I/O	Pin Description
1	ML2252-NCR1	I	Channel 1 Next Command Ready status signal input from digital synthesizer ML2252 "H": Ready
2	CD_RST	O	Reset signal output to the digital signal processor
3	CD M-MUTE	O	Motor driver muting on/off control signal output
4	SIRCS	I	Remote control signal input
5	ML2252-DATA OUT	O	Serial data output to digital synthesizer ML2252
6	ML2252-NCR2	I	Channel 2 Next Command Ready status signal input from digital synthesizer ML2252 "H": Ready
7	ML2252-CLK	O	Serial data transfer clock signal output to digital synthesizer ML2252
8	BYTE	—	Not used. (Connected to ground)
9	CNVSS	—	Ground
10	XC-IN	I	Sub system clock input terminal (32.768kHz)
11	XC-OUT	O	Sub system clock output terminal (32.768kHz)
12	RESET	I	System reset signal input
13	X-OUT	O	Main system clock output terminal (5MHz)
14	VSS	—	Ground
15	X-IN	I	Main system clock input terminal (5MHz)
16	VCC	—	Power supply (+3.3V)
17	NMI	I	Non-maskable interrupt input (Pull up)
18	CD_BUS1/V-MUTE	I/O	Serial bus data bit 1 input/output
19	SBSY/V-OUT_SW	I	Subcode block synchronization signal input/output
20	AC_CUT	I	AC off detection signal input
21	CD_BUS2/ MIC_DETECT	I/O	Serial bus data bit 2 input/output
22	CD_BUS3/ CTR-RELAY	I/O	Serial bus data bit 3 input/output
23	CD_BUCK/ MTK-KRMOB	O	Serial data transfer clock signal output
24	CD_CCE/SW_MUTE	O	Chip enable signal output
25	CD_REQ/ ANALOG_IN_MUTE	I	Decoder request signal input
26	STBY-RELAY	O	Main power on/off control signal output "H": power on
27	CD_A-MUTE/ DVD_A-MUTE	O	CD and USB analog signal muting signal output
28	CD_POWER/ MTK_POWER	O	Power on/off control signal output "H": power on
29	IIC-CLK	I/O	Clock signal for IIC communication input/output
30	IIC-DATA	I/O	Data signal for IIC communication input/output
31	[MTK-SIO] USB-POWER	O	Power on/off control signal output to USB section "H": power on
32	[MTK-SOD] USB-SEL_SW	O	Digital signal processor control bus switching signal "H": controlled by the Master Control controller "L": controlled by USB micom
33	[MTK-CLK] USB-RST	O	Reset signal output to the USB micom
34	[MIC-STATUS] USB-CTS0	I	Ready to receive signal input from USB micom
35	[MTK-BUSY] USB-TXD0	O	Serial data output to the USB micom
36	[MTK-XIFCS] USB-RXD0	I	Serial data input from the USB micom
37	OPEN-SW	I	Eject detection signal input from CDM
38	[MTK-RST] USB-RTS0	O	Ready to send signal to USB micom

Pin No.	Pin Name	I/O	Pin Description
39	TBL-SENSE	I	Disc tray position detection signal input from CDM
40	E-3	I	Disc tray status detection signal input from CDM
41	E-2	I	Disc tray status detection signal input from CDM
42	E-1	I	Disc tray status detection signal input from CDM
43	TMF	O	CDM turning motor control signal output
44	TMR	O	CDM turning motor control signal output
45	LMF	O	CDM loading motor control signal output
46	LMR	O	CDM loading motor control signal output
47	UNDER VOLTAGE	I	Under-voltage protection detection input
48	OVER VOLTAGE	I	Over-voltage protection detection input
49	SPEED FAN-HI	O	Fan speed control signal output "L": high speed
50	FR_RELAY	O	Relay drive signal output for the front speakers "H": relay on
51	STK-MUTE	O	Power amplifier on/off control signal output "H": amplifier on
52	H/P-MUTE	O	Headphone muting on/off control signal "L": muting on
53	PROTECTOR	I	Speaker protect detection signal input from speaker protect circuit "L": protector on
54	H/P_DETECT	I	Headphone connection detection signal input "H": headphone connected
55	LINE-MUTE	O	Line muting on/off control signal "H": muting on
56	M61530-DATA	O	Serial data output to electric volume, M61530FP
57	M61530-CLK	O	Serial data transfer clock signal output to electric volume, M61530FP
58	EFFECTOR_SOURCE_SELECT2	O	Control signal 2 output to source selector at the effector circuitry
59	EFFECTOR_SOURCE_SELECT1	O	Control signal 1 output to source selector at the effector circuitry
60	EFFECTOR_SELECT	O	Effector circuitry bypass control signal output "H": bypass
61	EFFECTOR_CTRL3	O	Effector mode control signal 3 output
62	VCC	—	Power supply (+3.3V)
63	EFFECTOR_CTRL2	O	Effector mode control signal 2 output
64	VSS	—	Ground
65	EFFECTOR_S3	O	Effector circuitry delay time selection bit 3 output
66	EFFECTOR_S2	O	Effector circuitry delay time selection bit 2 output
67	EFFECTOR_S1	O	Effector circuitry delay time selection bit 1 output
68	EFFECTOR_S0	O	Effector circuitry delay time selection bit 0 output
69	EFFECTOR_CTRL1	O	Effector mode control signal 1 output
70	M61537-DATA	O	Serial data output to REC/PB AMP, M61537FP
71	M61537-CLK	O	Serial data transfer clock signal output to REC/PB AMP, M61537FP
72	[REC-MUTE]/ SURRELAY	O	Relay drive signal output for the speakers "H": relay on
73	DISPLAY-KEY	I	DISPLAY key press detection Interrupt input
74	POWER-KEY	I	POWER key press detection Interrupt input
75	[TC-MUTE]/ ML2252_BUSY2	I	Channel 2 playback status signal from digital synthesizer ML2252 "H": Playback stop
76	[TC-RELAY]/ I/O_EXP_DATA-OUT	O	Serial data output signal to I/O expander
77	[REC-BIAS]/ I/O_EXP_PWR-CTRL	O	Power on/off control signal to I/O expander
78	[B-TRIG]/ I/O_EXP_LATCH	O	Serial data clock signal to I/O expander
79	[CAPM-CNT]/ I/O_EXP_CLK	O	Serial data latch signal to I/O expander

Pin No.	Pin Name	I/O	Pin Description
80	[A-TRIG]/ I/O_EXP RESET	O	Reset signal output to the I/O expander
81	A-HALF	I	Deck A cassette detection signal input
82	FREQ Z-GROOVE	O	Z-Groove frequency select control signal output "L": Z-Groove "H": Groove
83	ST-CE	O	PLL chip enable signal output to the tuner unit
84	ST-DOUT	O	PLL serial data output to the tuner unit
85	ST-CLK	O	PLL serial data transfer clock signal output to the tuner unit
86	ST-DIN	O	PLL serial data input from the tuner unit
87	STBY-LED	O	LED drive signal output of POWER indicator "H": Green Color "L": Red Color
88	GC-RESET	O	Reset signal output to Display Control IC "L": reset
89	A-SHUT	I	Shut off detection signal input from deck A side reel pulse detector (A/D input)
90	B-SHUT	I	Shut off detection signal input from deck A side reel pulse detector (A/D input)
91	B-HALF	I	Deck B cassette detection and forward side recording tab detection signal input terminal (A/D input)
92	ML2252-WR	I	Data output enable control signal to digital synthesizer ML2252 "L": Data output enable
93	DEST-IN	I	Destination setting terminal
94	THERMAL_VACS	I	Temperature detection signal input from thermistor (A/D input)
95	ML2252-BUSY1	I	Channel 1 playback status signal from digital synthesizer ML2252 "H": Playback stop
96	AVSS	I	Ground
97	[MTK_POWER_MONITOR] CD_BUS0	I/O	Serial bus data bit 0 input from or output
98	VREF	I	A/D Converter reference voltage input (+3.3V)
99	AVCC	—	Power supply (+3.3V)
100	RESET ML2252	I	Reset signal output to digital synthesizer ML2252

IC325 BH2210FV-E2 (I/O EXPAND) (MAIN BOARD (2/4))

Pin No.	Pin Name	I/O	Pin Description
1	CTLIO	I	I/O mode select signal input
2	RESET	I	Reset signal input
3	CLK	—	Serial data clock signal input
4	LATCH	—	Serial data latch signal input
5	NO-USE	O	Not used
6	NO-USE	O	Not used
7	A-TRIG	O	Deck A side trigger plunger drive signal output "H": plunger on
8	CAPM-CNT	O	Capstan motor drive signal output
9	B-TRIG	O	Deck B side trigger plunger drive signal output "H": plunger on
10	REC-BIAS	O	Recording bias on/off control signal output "H": bias on
11	TC-RELAY	O	Not used
12	NO-USE	O	Not used
13	LATCHO	O	Serial data latch signal output
14	CLKO	O	Serial data clock signal output
15	DO1	O	Serial data signal 1 output
16	DI2	I	Serial data signal 2 input
17	NO-USE	O	Not used
18	NO-USE	O	Not used
19	REC-MUTE	O	Recording muting on/off control signal output "L": muting on
20	TC-MUTE	O	Tape playback muting on/off control signal output "L": muting on
21	NO-USE	O	Not used
22	NO-USE	O	Not used
23	NO-USE	O	Not used
24	NO-USE	O	Not used
25	DO2	O	Serial data signal 2 output
26	D11	I	Serial data signal 1 input
27	VSS	—	Ground
28	VDD	—	Power supply (+3.3V)

IC901 TMP92CD28AFG-2CB4 (USB CONTROLLER) (USB BOARD)

Pin No.	Pin Name	I/O	Pin Description
1	RESET	I	Reset signal input from the system controller "L": reset
2	PC0/INT0	I	Ready to send signal input from the system controller
3	PC1/INT1	O	Not used. Connected to ground.
4	PC2/INT2/TB1IN0	O	Not used. Connected to ground.
5	PC3/INT3	I	Function selection signal input Fixed at "L" in this set.
6	DVCC3B	—	Power supply (+3.3 V)
7	PC6/XT1	O	Not used. (Open)
8	PC7/XT2	O	Not used. (Open)
9	PWE	O	Not used. (Open)
10	DVSS1B	—	Ground
11	DVCC1B	—	Reference voltage input
12	RVOUT1	O	Reference voltage output
13, 14	RVIN	I	Reference voltage (+3.3 V) input
15	RVOUT2	O	Reference voltage output
16	DVCC1A	—	Reference voltage input
17	DVSS1A	—	Ground
18 to 25	P00/D0 to P07/D7	I/O	Two-way data bus with the S-RAM
26	DVSS	—	Ground
27	DVCC3A	—	Power supply (+3.3 V)
28 to 35	P10/D8 to P17/D15	I/O	Two-way data bus with the S-RAM
36	P40/A0	O	Address signal output Not used in this set. (Open)
37 to 43	P41/A1 to P47/A7	O	Address signal output to the S-RAM
44	DVSS	—	Ground
45	DVCC3A	—	Power supply (+3.3 V)
46 to 54	P50/A8 to P60/A16	O	Address signal output to the S-RAM
55 to 58	P61/A17 to P64/A20	O	Serial data output to the CD-MP3 processor
59	P65/A21	O	Serial data transfer clock signal output to the CD-MP3 processor
60	P66/A22	O	Chip enable signal output to the CD-MP3 processor
61	P67/A23	O	Not used. (Open)
62	DVSS	—	Ground
63	DVCC3A	—	Power supply (+3.3 V)
64	P70/RD	O	Output enable signal output to the S-RAM
65	P71/SRWR	O	Write enable signal output to the S-RAM
66	P72/SRLLB	O	Lower-byte control signal output to the S-RAM
67	P73/SRLUB	O	Upper-byte control signal output to the S-RAM
68	P74/TA0IN	O	Not used. (Open)
69	P80/CS0/TA1OUT (BOOT)	I	Boot mode selection signal input "L": boot mode
70	P82/CS2	I	Chip select signal output to the S-RAM
71	P83/CS3/WAIT/TA5OUT	O	L/R sampling clock signal output to the CD-MP3 processor
72	AM1	I	Function mode selection signal input Fixed at "H" in this set.
73	X2	O	System clock output (9 MHz)
74	DVSS	—	Ground
75	X1	I	System clock input (9 MHz)
76	DVCC3A	—	Power supply (+3.3 V)
77	P75/USBOC	I	Over current detection signal input
78	P76/USBPON	O	USB VBUS power on/off control signal output "H": power on
79	D+	I/O	Two-way data (positive) bus with the USB connector
80	D-	I/O	Two-way data (negative) bus with the USB connector
81	AM0	I	Function mode selection signal input Fixed at "H" in this set.

Pin No.	Pin Name	I/O	Pin Description
82	P77/X1USB	O	Not used. (Open)
83	DVSS	—	Ground
84	PF0/TXD0	O	Clear to send signal output to the system controller
85	PF1/RXD0	O	Serial data signal output
86	PF2/SCLK0/CTS0/ CLK/TB0OUT0	O	Serial data transfer clock signal output
87	PF3/TXD1/SPDO	O	Serial data signal output to the system controller
88	PF4/RXD1/SPDI	I	Serial data signal input from the system controller
89	PF5/SCLK1/CTS1/SPCLK	O	Not used in this set. (Open)
90	PN1/SDA0/TA3OUT/SO0	I/O	Two-way EEPROM IIC data bus Not used in this set.
91	PN2/SCL0/TA2IN/SI0	I/O	Two-way EEPROM IIC clock bus Not used in this set.
92	PN3/HCLK	O	Bit clock signal output to the CD-MP3 processor
93	PN4/HSSO/SDA1	O	Audio data output to the CD-MP3 processor
94	PN5/HSSI/SCL1	O	Gate signal output to the CD-MP3 processor
95	DVCC3A	—	Power supply (+3.3 V)
96	PG3	I	Request signal input from the CD-MP3 processor
97	PG2	I	Request signal input from the CD-MP3 processor
98, 99	PG1, PG0	I	Function selection signal input Fixed at “H” in this set.
100	DVSS	—	Ground

IC900 MB90M407PF-G-152-BND (GC MICOM, FL DRIVE) (FL BOARD)

Pin No.	Pin Name	I/O	Pin Description
1 to 8	G17 to G24	O	Grid drive signal output to the fluorescent indicator tube display
9, 10	P36, P35	O	Segment drive signal output to the fluorescent indicator tube display
11	VSS-IO	—	Ground (for I/O port)
12 to 22	P34 to P24	O	Segment drive signal output to the fluorescent indicator tube display
23	VDD-FIP	—	Power supply (+3.3 V) (for fluorescent indicator tube display)
24 to 41	P23 to P6	O	Segment drive signal output to the fluorescent indicator tube display
42	VSS-IO	—	Ground (for I/O port)
43 to 47	P5 to P1	O	Segment drive signal output to the fluorescent indicator tube display
48	VKK	—	Power supply (+3.3 V) (for fluorescent indicator tube display)
49 to 51	MD0 to MD2	I	Setting pin for the CPU operational mode
52	LED-VOLUME1, 2	O	Dynamic LED drive signal output of the (VOL1) and (VOL2) indicator ("H": LED on)
53	LED-VOLUME3, 4	O	Dynamic LED drive signal output of the (VOL3) and (VOL4) indicator ("H": LED on)
54	LED-VOLUME5, 6	O	Dynamic LED drive signal output of the (VOL5) and (VOL6) indicator ("H": LED on)
55	LED-VOLUME7, 8	O	Dynamic LED drive signal output of the (VOL7) and (VOL8) indicator ("H": LED on)
56	LED-CENTER LIGHTING1, 2	O	Dynamic LED drive signal output of the CENTER 1 and 2 lighting indicator ("H": LED on)
57	LED-BOTTOM LIGHTING1, 2	O	Dynamic LED drive signal output of the BOTTOM 1 and 2 lighting indicator ("H": LED on)
58	LED-USB REC	O	Dynamic LED drive signal output of the USB REC/ERASE indicator ("H": LED on)
59	LED-FLANGER, DELAY	O	Dynamic LED drive signal output of the FLANGER and DELAY ("H": LED on)
60	12C-DATA	I/O	Clock signal input/output for IIC communication between Master Control controller and Display Control controller
61	12C-CLOCK	I/O	Data signal input/output for IIC communication between Master Control controller and Display Control controller
62	AVCC	—	Power supply (+3.3 V) (for A/D conversion)
63	AVSS	—	Ground (for A/D conversion)
64 to 67	KEY0 to KEY3	I	Key input (A/D input)
68	ALL-BAND	I	Spectrum analyzer drive signal input from the spectrum analyzer band-pass filter (A/D input)
69 to 72	BPF3 to BPF0	I	Spectrum analyzer drive signal input from the spectrum analyzer band-pass filter (A/D input)
73	MULTI JOG	I	Jog dial pulse input from MULTI DIAL encoder
74	VOL JOG	I	Jog dial pulse input from the VOLUME encoder
75	LED-CHORUS, WAH	O	Dynamic LED drive signal output of CHORUS and AQUA indicator ("H": LED on)
76	NO USE	—	Not used. (Open)
77	RESET	I	System reset signal input from the Master Control controller ("L": reset)
78	NO USE	O	Not used. (Open)
79	X ROUND JOG	O	Jog dial pulse input from X-ROUND DIAL encoder
80	LED SELECTOR	O	Dynamic LED drive select signal output
81	VSS-CPU	—	Ground
82	XO	O	System clock output (4 MHz)
83	XI	I	System clock input (4 MHz)
84	VCC-CPU	—	Power supply (+3.3 V)
85 to 100	G1 to 16	O	Grid drive signal output to the vacuum fluorescent display

SECTION 8 EXPLODED VIEWS

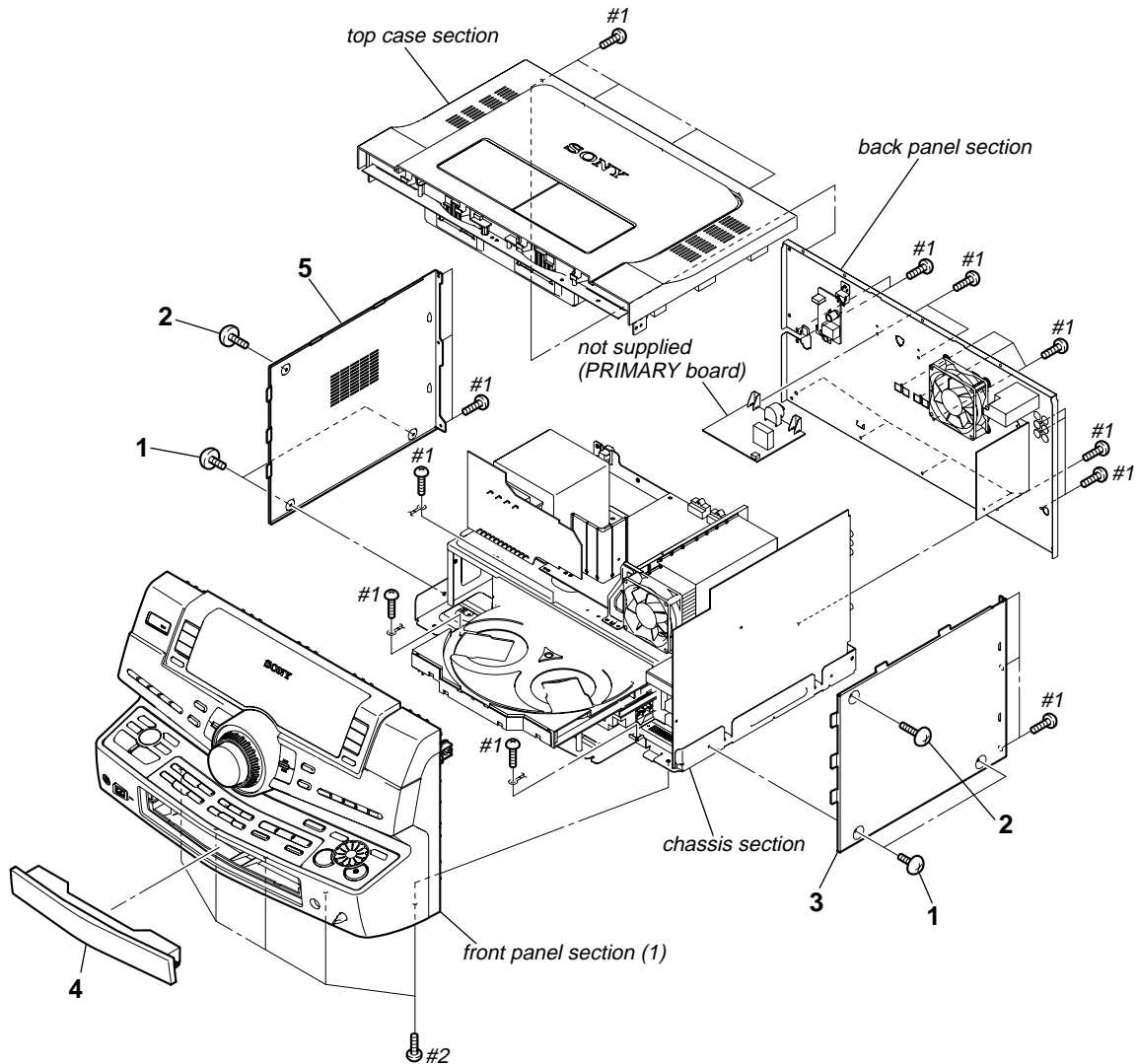
NOTE:

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

- Abbreviation
 AUS : Australian model
 E2 : 120 V AC area in E model
 E13 : 220-230 V AC area in E model
 E51 : Chilean and Peruvian model

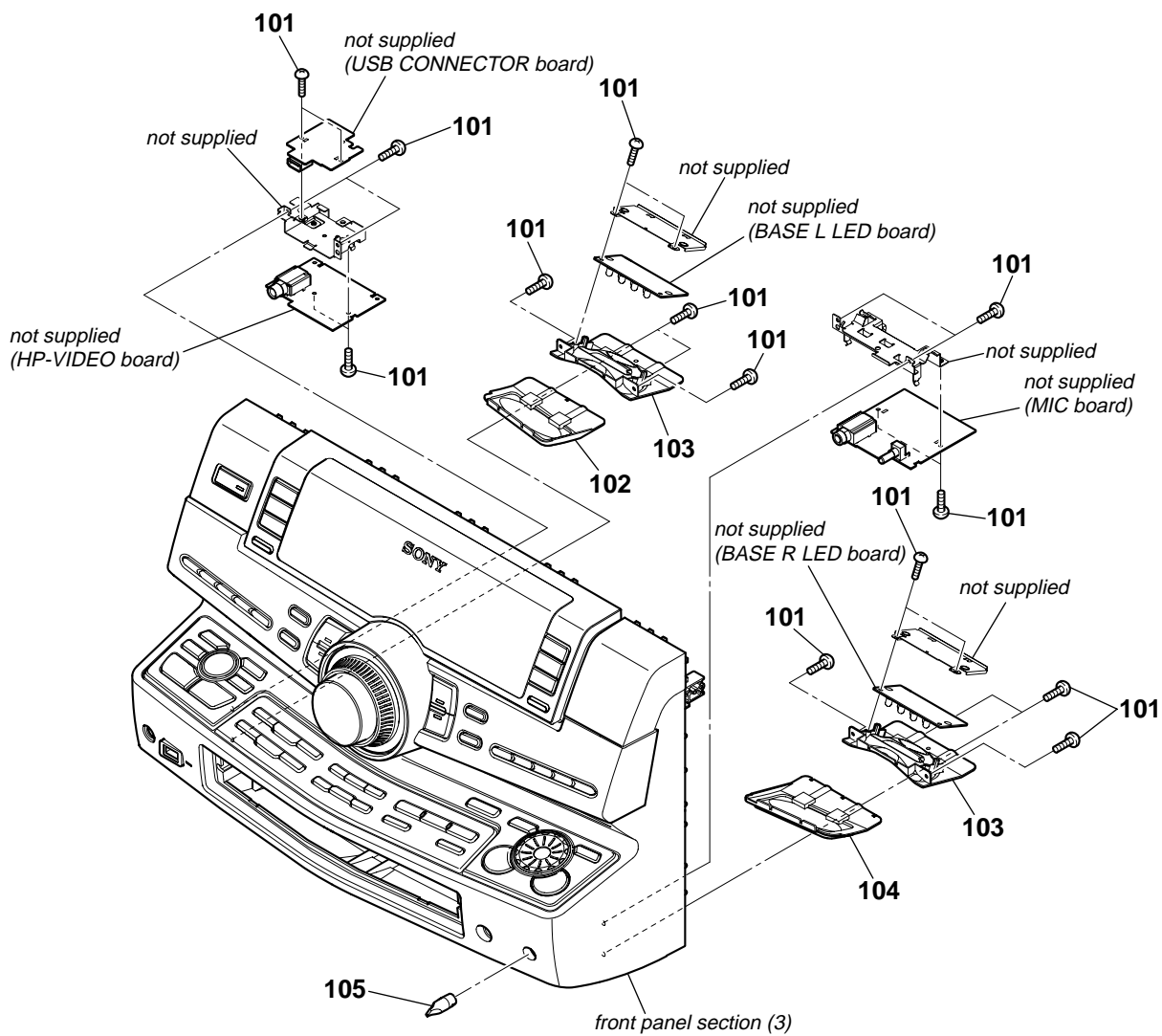
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

8-1. MAIN SECTION



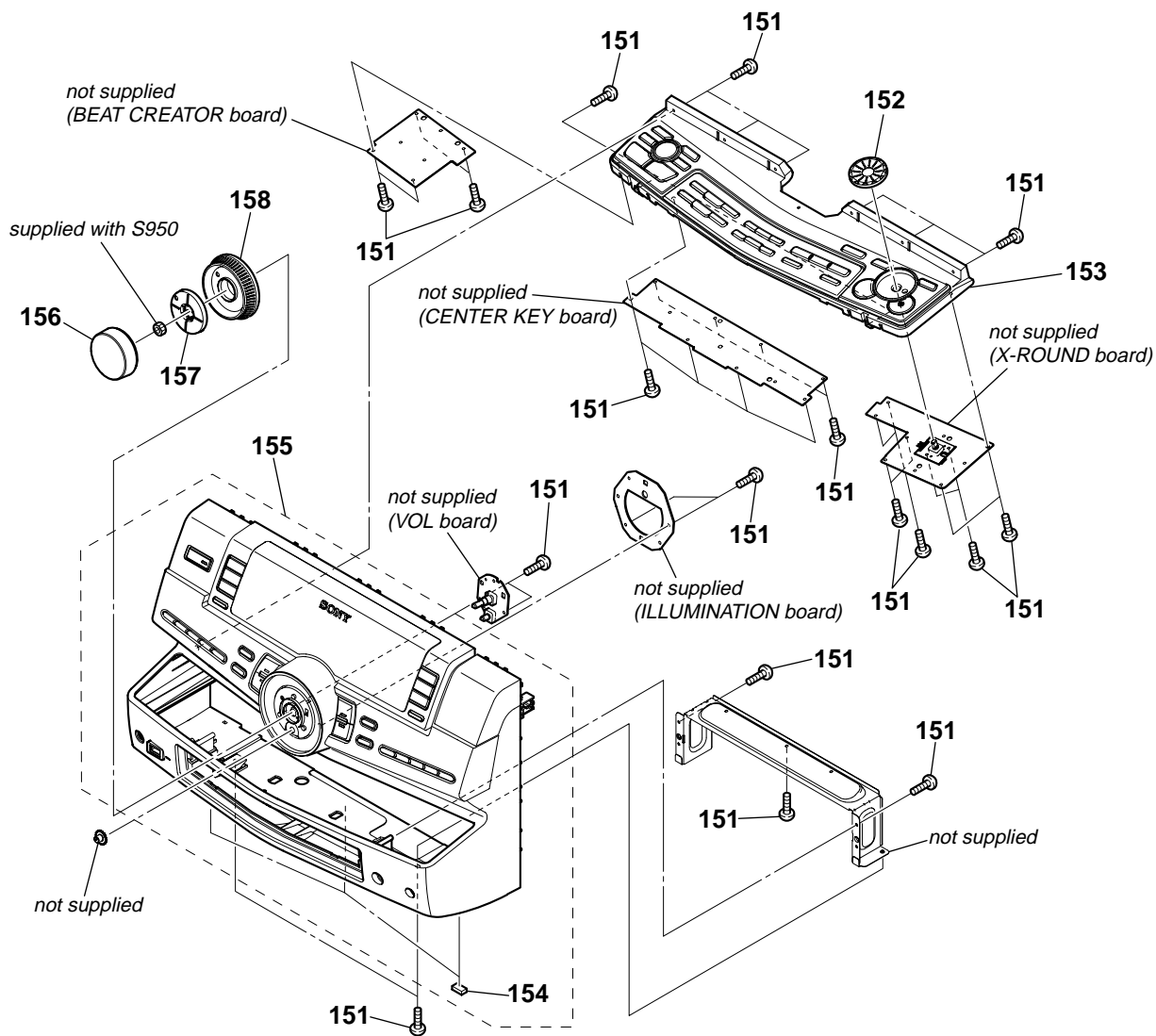
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	3-363-099-02	SCREW (CASE 3 TP2)		4	3-095-333-31	PANEL, LOADING (US)	
2	3-363-099-32	SCREW (CASE 3 TP2)		5	3-095-365-01	PANEL, SIDE L	
3	3-095-366-01	PANEL, SIDE R		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
4	3-095-333-01	PANEL, LOADING (E2)		#2	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	
4	3-095-333-21	PANEL, LOADING (E13,E51,AUS)					

8-3. FRONT PANEL SECTION (2)



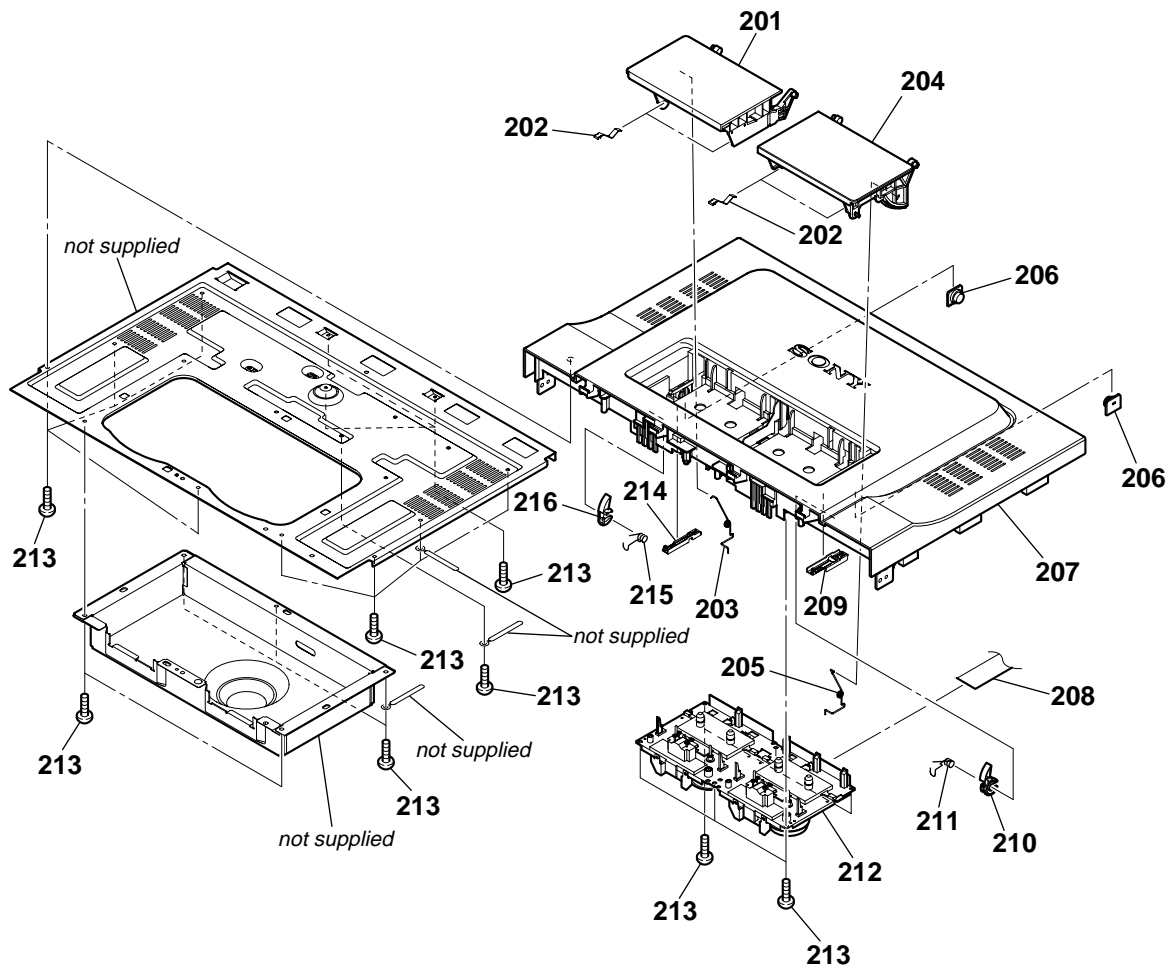
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	3-087-053-01	+BVTP 2.6 (3CR) (EXCEPT AUS)		104	3-095-340-01	WINDOW (CD-R)	
102	3-095-339-01	WINDOW (CD-L)		105	3-095-334-01	KNOB (MIC)	
103	3-095-341-01	REFLECTOR (CD)					

8-4. FRONT PANEL SECTION (3)



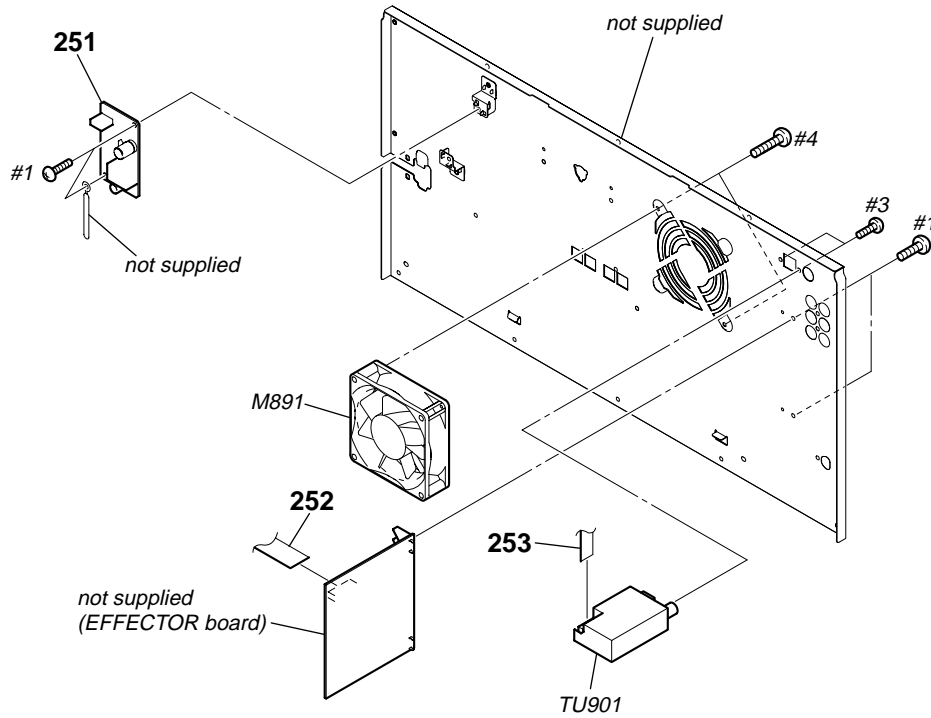
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	3-087-053-01	+BVTP 2.6 (3CR)		155	X-2186-571-1	FRONT PANEL ASSY (CD-AU) (AUS)	
152	3-095-332-01	JOG (X-ROUND)		155	X-2187-306-1	FRONT PANEL ASSY (CD-U2) (US)	
153	X-2177-353-1	CD ESCUTCHEON ASSY (CD) (EXCEPT US)		156	3-095-313-01	KNOB (VOLUME)	
153	X-2187-803-1	CD ESCUTCHEON ASSY (CD-U2) (US)		157	3-095-315-01	BRACKET (JOG)	
154	4-225-252-21	CUSHION (FOOT)		158	3-095-314-01	KNOB (JOG)	
155	X-2177-349-1	FRONT PANEL ASSY (CD) (E2,E13,E51)					

8-5. TOP CASE SECTION



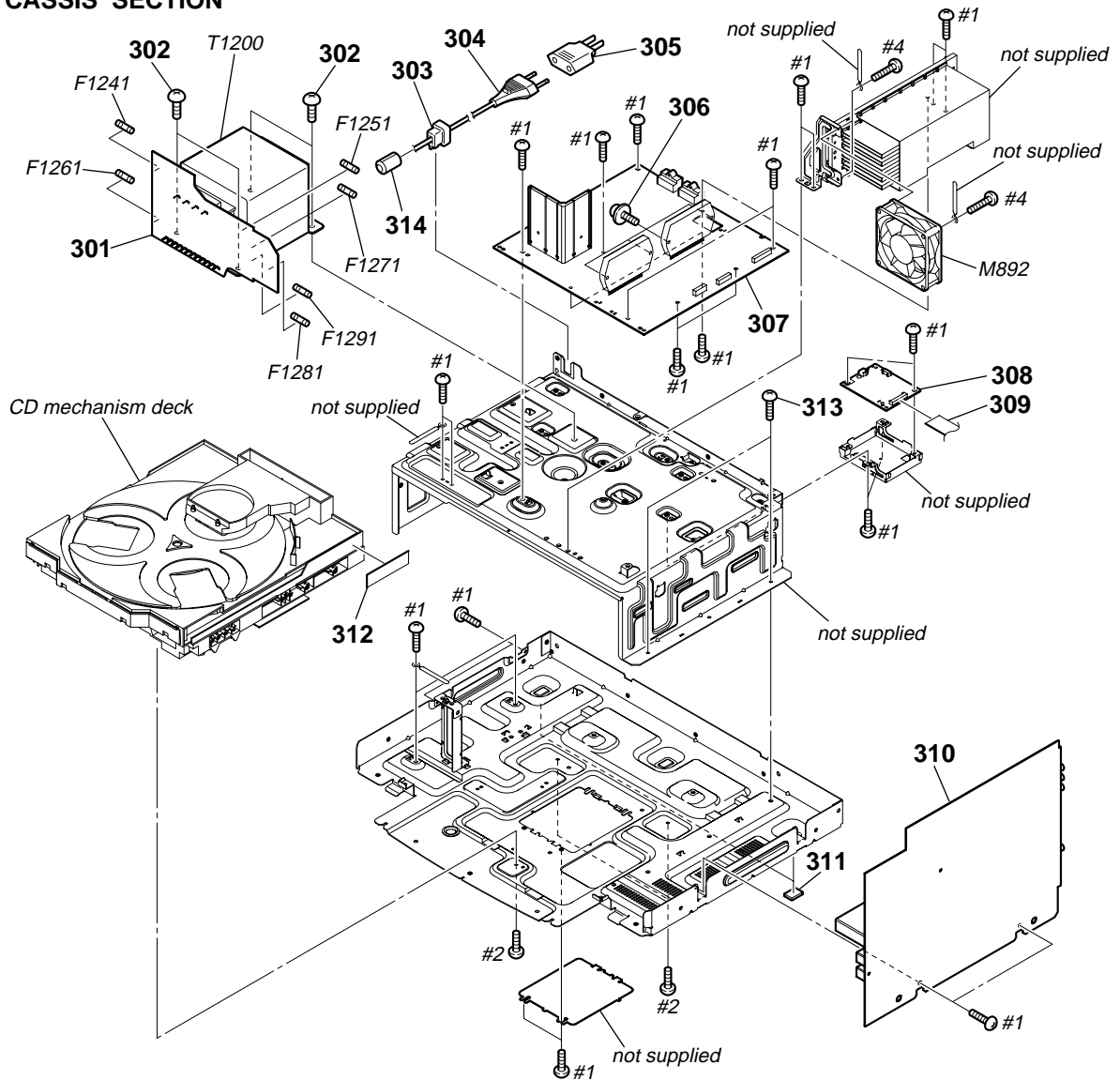
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	3-095-348-01	HOLDER (TC-L)		209	3-095-353-01	STOPPER (PLAY-B)	
202	2-669-613-01	SPRING, DETENT		210	4-231-825-01	CAM (B), HEART	
203	3-211-052-01	SPRING (A)		211	4-231-841-01	SPRING (HEART CAM-B)	
204	3-095-349-01	HOLDER (TC-R)		212	1-417-656-11	DECK, MECHA	
205	3-211-053-01	SPRING (B)		213	3-087-053-01	+BVTP 2.6 (3CR)	
206	4-224-104-11	DAMPER		214	3-095-352-01	STOPPER (PLAY-A)	
207	3-095-343-01	CASE (TOP) (EXCEPT US)		215	4-231-836-01	SPRING (HEART CAM-A)	
207	3-095-343-11	CASE (TOP) (US)		216	4-231-824-01	CAM (A), HEART	
208	1-828-966-11	WIRE (FLAT TYPE) (11 CORE)					

8-6. BACK PANEL SECTION



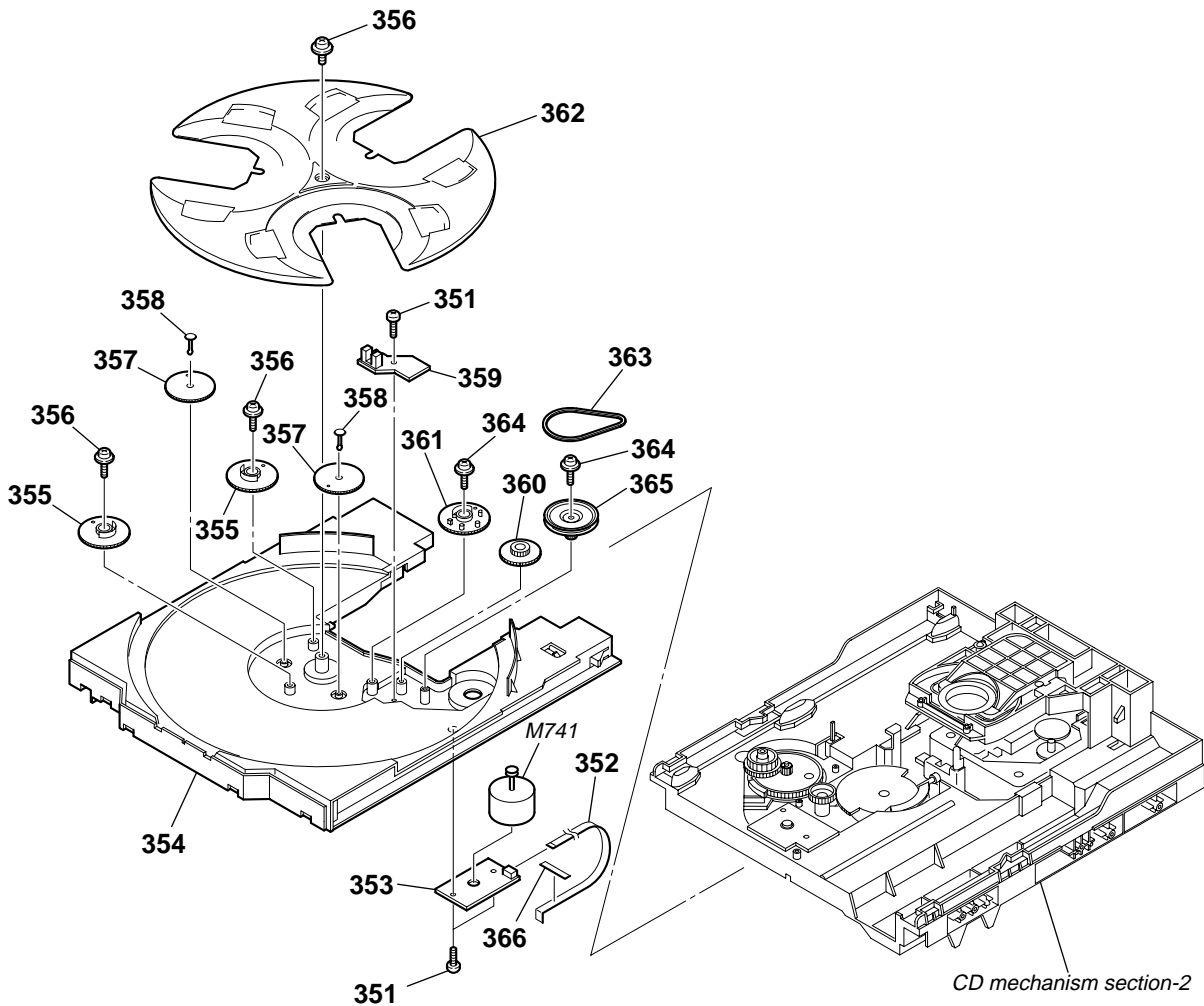
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
△ 251	1-468-737-51	SWITCHING, POWER		TU901	1-693-734-11	TUNER (FM/AM) (ANTENNA) (AUS)	
252	1-828-361-11	WIRE (FLAT TYPE) (19 CORE)		TU901	1-693-734-21	TUNER (FM/AM) (ANTENNA) (E2,E13,E51)	
253	1-828-954-11	WIRE (FLAT TYPE) (9 CORE)		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
M891	1-763-372-11	FAN, DC		#3	7-685-862-09	SCREW +BVTT 2.6X6 (S)	
TU901	1-693-733-11	TUNER (FM/AM) (ANTENNA) (US)		#4	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	

8-7. CASSIS SECTION



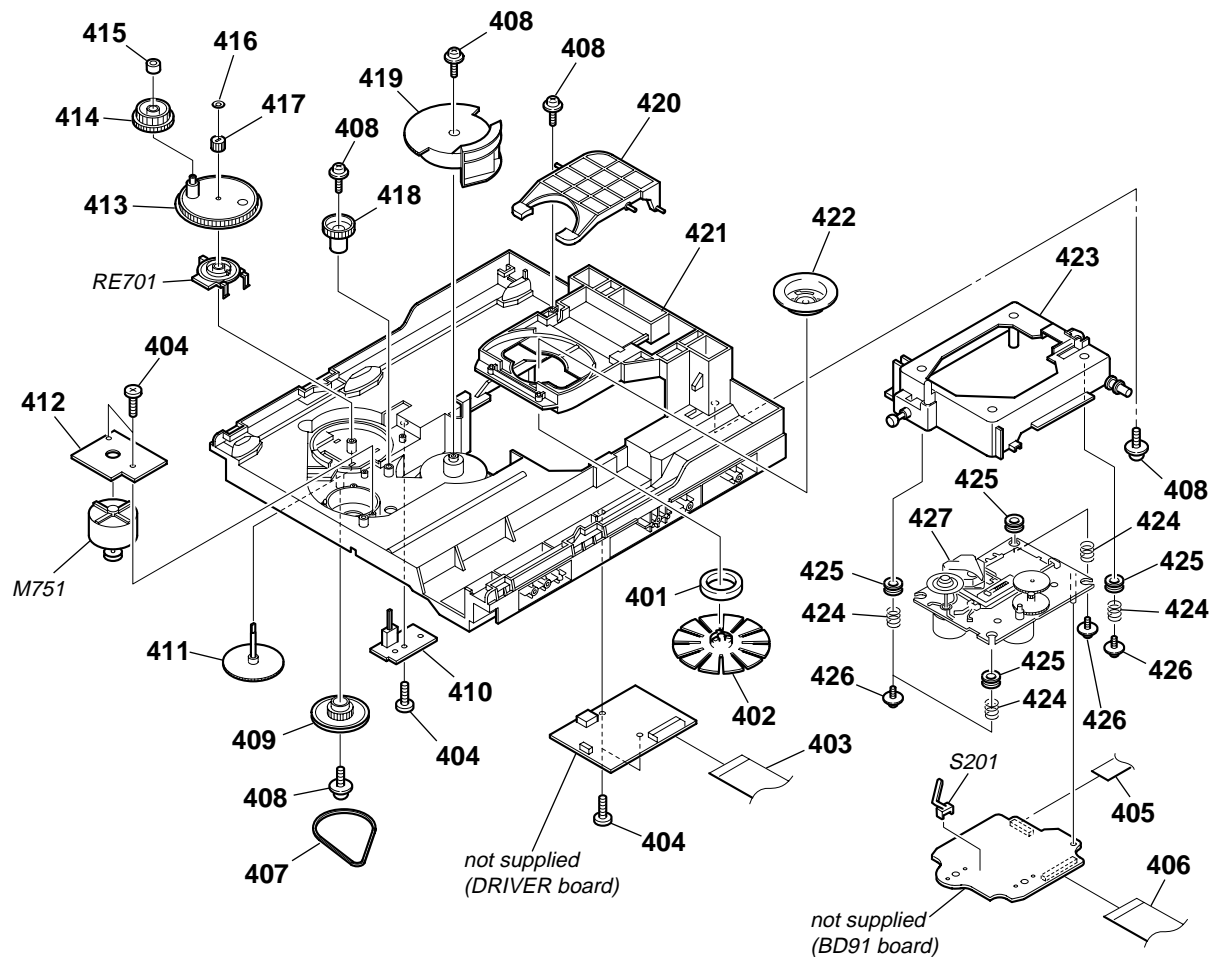
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
301	A-1257-724-A	TRANS BOARD, COMPLETE (EXCEPT US)		△F1251	1-533-311-12	FUSE, GLASS CYLINDRICAL (DIA.5) (8A/125V) (US)	
301	A-1392-675-A	TRANS BOARD, COMPLETE (US)		△F1251	1-533-949-33	FUSE, CYLINDRICAL (TIME LAG) (T8AL/250V) (EXCEPT US)	
302	4-900-386-01	SCREW		△F1261	1-533-311-12	FUSE, GLASS CYLINDRICAL (DIA.5) (8A/125V) (US)	
303	3-703-244-21	BUSHING (2104), CORD		△F1261	1-533-949-33	FUSE, CYLINDRICAL (TIME LAG) (T8AL/250V) (EXCEPT US)	
△304	1-775-790-71	CORD, POWER (AUS)		△F1271	1-533-311-12	FUSE, GLASS CYLINDRICAL (DIA.5) (8A/125V) (US)	
△304	1-777-071-83	CORD, POWER (E2,E13,E51)		△F1271	1-533-949-33	FUSE, CYLINDRICAL (TIME LAG) (T8AL/250V) (EXCEPT US)	
△304	1-783-820-11	CORD, POWER (US)		△F1281	1-532-504-33	FUSE (T4AL/250V) (EXCEPT US)	
△305	1-569-008-21	ADAPTOR, CONVERSION (E2,E51)		△F1281	1-533-419-12	FUSE, GLASS CYLINDRICAL (DIA.5) (4A/125V) (US)	
306	3-905-609-31	SCREW (TRANSISTOR)		△F1291	1-532-504-33	FUSE (T4AL/250V) (EXCEPT US)	
307	A-1257-585-A	POWER AMP BOARD, COMPLETE		△F1291	1-533-419-12	FUSE, GLASS CYLINDRICAL (DIA.5) (4A/125V) (US)	
308	A-1336-196-A	USB BOARD, COMPLETE		M892	1-763-372-11	FAN, DC	
309	1-828-374-11	WIRE (FLAT TYPE) (21 CORE)		△T1200	1-445-258-11	TRANSFORMER, POWER (EXCEPT US)	
310	A-1257-651-A	MAIN BOARD, COMPLETE (E2)		△T1200	1-445-319-11	TRANSFORMER, POWER (US)	
310	A-1313-359-A	MAIN BOARD, COMPLETE (E13)		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
310	A-1313-360-A	MAIN BOARD, COMPLETE (AUS)		#2	7-685-647-99	SCREW +BVTP 3X10 TYPE2 IT-3	
310	A-1363-636-A	MAIN BOARD, COMPLETE (E51)		#4	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	
310	A-1392-704-A	MAIN BOARD, COMPLETE (US)					
311	4-225-252-21	CUSHION (FOOT)					
312	3-378-109-12	CUSHION, SARANET					
313	3-077-331-21	+BV 3 (3-CR)					
314	1-457-369-11	CORE, FERRITE (US,AUS)					
△F1241	1-533-311-12	FUSE, GLASS CYLINDRICAL (DIA.5) (8A/125V) (US)					
△F1241	1-533-949-33	FUSE, CYLINDRICAL (TIME LAG) (T8AL/250V) (EXCEPT US)					

8-8. CD MECHANISM SECTION (1) (CDM74KF-K6BD91UR-WOD)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
351	4-218-253-52	SCREW (M2.6), +BTTP		360	4-243-820-01	GEAR (TABLE)	
352	1-828-938-11	WIRE (FLAT TYPE) (5 CORE)		361	4-243-819-01	GEAR (GENEVA)	
353	1-687-134-12	MOTOR (TB) BOARD		362	4-243-816-11	TRAY	
354	4-243-815-11	TABLE (LOADING)		363	4-243-823-01	BELT (TABLE)	
355	4-245-571-02	GEAR (STOPPER)		364	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING	
356	4-218-252-61	SCREW (+PTPWH M2.6), FLOATING		365	4-243-821-01	PULLEY (TABLE)	
357	4-245-570-01	GEAR (JOINT)		366	3-231-598-01	SHEET (BA)	
358	4-245-572-01	BUSHING (GEAR)		M741	A-1108-965-A	MOTOR ASSY, TABLE (TABLE)	
359	1-687-132-12	SENSOR BOARD					

8-9. CD MECHANISM SECTION (2)
(CDM74KF-K6BD91UR-WOD)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
401	1-471-035-11	MAGNET ASSY		417	4-224-611-01	GEAR (LOADING B)	
402	X-4955-774-2	PULLEY (SM) ASSY, CHUCKING		418	4-224-606-01	GEAR (RV)	
403	1-828-977-11	WIRE (FLAT TYPE) (13 CORE)		419	4-243-818-01	GEAR (U/D)	
404	4-218-253-42	SCREW (M2.6), +BTTP		420	4-243-822-02	LEVER (LIFTER)	
405	1-834-268-11	WIRE (FLAT TYPE) (16 CORE)		421	4-243-817-22	CHASSIS	
406	1-828-404-11	WIRE (FLAT TYPE) (27 CORE)		422	4-221-688-01	PULLEY (B), CHUCKING	
407	4-244-034-01	BELT (LOADING)		423	X-2179-682-1	HOLDER (213) ASSY	
408	4-218-252-52	SCREW (+PTPWH M2.6), FLOATING		424	4-227-045-11	SPRING (INSULATOR), COIL	
409	4-225-844-01	GEAR (LOADING A)		425	4-227-549-11	INSULATOR	
410	1-687-669-12	SW BOARD		426	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING	
411	4-224-613-11	GEAR (SHAFT)		△ 427	A-4735-357-A	BASE ASSY, OP	
412	1-687-133-12	MOTOR (LD) BOARD		M751	A-4737-553-A	MOTOR ASSY, LOADING (LOADING)	
413	4-244-108-01	GEAR, SWING		RE701	1-477-680-12	ENCODER, ROTARY (DISC TRAY ADDRESS DETECT)	
414	4-224-609-01	GEAR (LOADING C)		S201	1-771-853-11	SWITCH, DETECTION (LIMIT)	
415	4-224-608-01	COLLAR, SWING					
416	3-016-533-11	WASHER (FR), STOPPER					

**SECTION 9
ELECTRICAL PARTS LIST**

BASE L LED

BASE R LED

BD91

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 and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable

- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
In each case, u : μ , for example:
uA.. : μ A.. uPA.. : μ PA..
uPB.. : μ PB.. uPC.. : μ PC.. uPD.. : μ PD..
- CAPACITORS
uF : μ F
- COILS
uH : μ H

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

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

- Abbreviation
AUS : Australian model
E2 : 120 V AC area in E model
E13 : 220-230 V AC area in E model
E51 : Chilean and Peruvian model

Ref. No.	Part No.	Description	Remark
		BASE L LED BOARD *****	
		< DIODE >	
D923	6-501-872-01	LED SLI-560DTT32X-KLMN (BASE L ILLUMINATION)	
D924	6-501-872-01	LED SLI-560DTT32X-KLMN (BASE L ILLUMINATION)	
D925	6-501-872-01	LED SLI-560DTT32X-KLMN (BASE L ILLUMINATION)	
D926	6-501-872-01	LED SLI-560DTT32X-KLMN (BASE L ILLUMINATION)	
D927	6-501-872-01	LED SLI-560DTT32X-KLMN (BASE L ILLUMINATION)	
D928	6-501-872-01	LED SLI-560DTT32X-KLMN (BASE L ILLUMINATION)	
D929	6-501-872-01	LED SLI-560DTT32X-KLMN (BASE L ILLUMINATION)	
		< TRANSISTOR >	
Q928	8-729-027-50	TRANSISTOR DTC123JKA-T146	
		< RESISTOR >	
R1026	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1027	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1028	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1029	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1030	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1031	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1032	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1033	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1064	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1065	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1066	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1067	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1068	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1069	1-216-821-11	METAL CHIP 1K 5% 1/10W	

Ref. No.	Part No.	Description	Remark
D1030	6-501-872-01	LED SLI-560DTT32X-KLMN (BASE R ILLUMINATION)	
D1031	6-501-872-01	LED SLI-560DTT32X-KLMN (BASE R ILLUMINATION)	
D1032	6-501-872-01	LED SLI-560DTT32X-KLMN (BASE R ILLUMINATION)	
D1033	6-501-872-01	LED SLI-560DTT32X-KLMN (BASE R ILLUMINATION)	
D1034	6-501-872-01	LED SLI-560DTT32X-KLMN (BASE R ILLUMINATION)	
D1035	6-501-872-01	LED SLI-560DTT32X-KLMN (BASE R ILLUMINATION)	
		< TRANSISTOR >	
Q1028	8-729-027-50	TRANSISTOR DTC123JKA-T146	
		< RESISTOR >	
R1043	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1044	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1045	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1046	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1047	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1048	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1049	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1050	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1051	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1052	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1053	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1054	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1055	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1056	1-216-821-11	METAL CHIP 1K 5% 1/10W	

BD91 BOARD

< CAPACITOR >

C100	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C101	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C102	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C103	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C104	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C105	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C106	1-128-995-21	ELECT CHIP 100uF	20%
C107	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C108	1-164-360-11	CERAMIC CHIP 0.1uF	16V

		BASE R LED BOARD *****	
		< DIODE >	
D1029	6-501-872-01	LED SLI-560DTT32X-KLMN (BASE R ILLUMINATION)	

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C109	1-164-360-11	CERAMIC CHIP	0.1uF		16V			< IC >			
C110	1-164-360-11	CERAMIC CHIP	0.1uF		16V						
C112	1-164-360-11	CERAMIC CHIP	0.1uF		16V	IC101	6-710-827-01	IC TC94A70FG-008(S,D)			
C113	1-164-360-11	CERAMIC CHIP	0.1uF		16V	IC201	6-710-808-01	IC TK63115SCL-G@GT			
C115	1-124-778-00	ELECT CHIP	22uF	20%	6.3V	IC401	6-710-637-01	IC BA5826SFP-E2			
C116	1-164-360-11	CERAMIC CHIP	0.1uF		16V			< TRANSISTOR >			
C117	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V						
C118	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	Q301	6-551-120-01	TRANSISTOR 2SA2119K			
C119	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V			< RESISTOR >			
C120	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V						
C122	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	R101	1-216-813-11	METAL CHIP	220	5%	1/10W
C123	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	R102	1-216-833-11	METAL CHIP	10K	5%	1/10W
C124	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	R104	1-216-295-11	SHORT CHIP	0		
C125	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	R105	1-216-857-11	METAL CHIP	1M	5%	1/10W
C126	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	R106	1-216-821-11	METAL CHIP	1K	5%	1/10W
C127	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	R108	1-500-445-21	FERRITE, EMI (SMD) (2012)			
C128	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V	R109	1-216-809-11	METAL CHIP	100	5%	1/10W
C130	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V	R110	1-216-833-11	METAL CHIP	10K	5%	1/10W
C132	1-164-360-11	CERAMIC CHIP	0.1uF		16V	R111	1-216-809-11	METAL CHIP	100	5%	1/10W
C133	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	R112	1-216-809-11	METAL CHIP	100	5%	1/10W
C136	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	R114	1-216-833-11	METAL CHIP	10K	5%	1/10W
C137	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	R118	1-216-845-11	METAL CHIP	100K	5%	1/10W
C138	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	R119	1-216-864-11	SHORT CHIP	0		
C139	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	R121	1-216-809-11	METAL CHIP	100	5%	1/10W
C140	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	R128	1-216-853-11	METAL CHIP	470K	5%	1/10W
C141	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	R129	1-216-821-11	METAL CHIP	1K	5%	1/10W
C142	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	R130	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
C143	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	R134	1-216-857-11	METAL CHIP	1M	5%	1/10W
C144	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	R135	1-216-853-11	METAL CHIP	470K	5%	1/10W
C145	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	R136	1-216-837-11	METAL CHIP	22K	5%	1/10W
C146	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	R139	1-216-841-11	METAL CHIP	47K	5%	1/10W
C147	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	R140	1-216-864-11	SHORT CHIP	0		
C148	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	R142	1-216-837-11	METAL CHIP	22K	5%	1/10W
C149	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	R143	1-216-841-11	METAL CHIP	47K	5%	1/10W
C150	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	R144	1-216-837-11	METAL CHIP	22K	5%	1/10W
C151	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	R145	1-216-864-11	SHORT CHIP	0		
C152	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	R146	1-216-864-11	SHORT CHIP	0		
C153	1-164-360-11	CERAMIC CHIP	0.1uF		16V	R147	1-216-864-11	SHORT CHIP	0		
C201	1-128-995-21	ELECT CHIP	100uF	20%	10V	R148	1-216-864-11	SHORT CHIP	0		
C202	1-128-995-21	ELECT CHIP	100uF	20%	10V	R149	1-216-864-11	SHORT CHIP	0		
C204	1-164-360-11	CERAMIC CHIP	0.1uF		16V	R150	1-216-864-11	SHORT CHIP	0		
C205	1-164-360-11	CERAMIC CHIP	0.1uF		16V	R151	1-216-864-11	SHORT CHIP	0		
C206	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	R153	1-216-857-11	METAL CHIP	1M	5%	1/10W
C207	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	R154	1-216-857-11	METAL CHIP	1M	5%	1/10W
C301	1-164-360-11	CERAMIC CHIP	0.1uF		16V	R155	1-216-805-11	METAL CHIP	47	5%	1/10W
C302	1-137-710-11	CERAMIC CHIP	10uF	20%	6.3V	R156	1-216-809-11	METAL CHIP	100	5%	1/10W
C303	1-137-710-11	CERAMIC CHIP	10uF	20%	6.3V	R157	1-216-809-11	METAL CHIP	100	5%	1/10W
C306	1-128-995-21	ELECT CHIP	100uF	20%	10V	R201	1-216-295-11	SHORT CHIP	0		
C307	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	R202	1-216-295-11	SHORT CHIP	0		
C309	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	R203	1-216-809-11	METAL CHIP	100	5%	1/10W
C401	1-128-394-11	ELECT CHIP	220uF	20%	10V	R204	1-216-809-11	METAL CHIP	100	5%	1/10W
C403	1-164-360-11	CERAMIC CHIP	0.1uF		16V	R205	1-216-809-11	METAL CHIP	100	5%	1/10W
C404	1-164-360-11	CERAMIC CHIP	0.1uF		16V	R206	1-216-809-11	METAL CHIP	100	5%	1/10W
C405	1-164-360-11	CERAMIC CHIP	0.1uF		16V	R207	1-216-809-11	METAL CHIP	100	5%	1/10W
		< CONNECTOR >				R208	1-216-809-11	METAL CHIP	100	5%	1/10W
CN202	1-784-835-51	CONNECTOR, FFC (LIF(NON-ZIF)) 27P				R209	1-216-809-11	METAL CHIP	100	5%	1/10W
CN301	1-770-425-51	CONNECTOR, FFC/FPC 16P				R210	1-216-809-11	METAL CHIP	100	5%	1/10W
						R211	1-216-809-11	METAL CHIP	100	5%	1/10W

HCD-ZUX9

BD91	BEAT CREATOR	CENTER KEY	CENTER L LED
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Ref. No.	Part No.	Description	Quantity	Power	Remark
R212	1-216-809-11	METAL CHIP	100	5%	1/10W
R213	1-216-809-11	METAL CHIP	100	5%	1/10W
R214	1-216-809-11	METAL CHIP	100	5%	1/10W
R216	1-216-809-11	METAL CHIP	100	5%	1/10W
R218	1-216-845-11	METAL CHIP	100K	5%	1/10W
R219	1-216-845-11	METAL CHIP	100K	5%	1/10W
R220	1-216-845-11	METAL CHIP	100K	5%	1/10W
R221	1-216-845-11	METAL CHIP	100K	5%	1/10W
R222	1-216-845-11	METAL CHIP	100K	5%	1/10W
R223	1-216-845-11	METAL CHIP	100K	5%	1/10W
R224	1-216-809-11	METAL CHIP	100	5%	1/10W
R301	1-216-845-11	METAL CHIP	100K	5%	1/10W
R302	1-216-864-11	SHORT CHIP	0		
R303	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R304	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R402	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R405	1-216-833-11	METAL CHIP	10K	5%	1/10W
R408	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R414	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R415	1-216-841-11	METAL CHIP	47K	5%	1/10W
< VIBRATOR >					
X102	1-795-101-21	VIBRATOR, CERAMIC (16.934MHZ)			

BEAT CREATOR BOARD					

< CONNECTOR >					
CN908	1-785-329-11	PIN, CONNECTOR (LIGHT ANGLE) 3P			
CN956	1-785-329-11	PIN, CONNECTOR (LIGHT ANGLE) 3P			
< RESISTOR >					
R938	1-216-817-11	METAL CHIP	470	5%	1/10W
R939	1-216-819-11	METAL CHIP	680	5%	1/10W
R940	1-216-821-11	METAL CHIP	1K	5%	1/10W
R941	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R942	1-216-843-11	METAL CHIP	68K	5%	1/10W
R943	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R951	1-216-843-11	METAL CHIP	68K	5%	1/10W
< SWITCH >					
S918	1-771-410-21	SWITCH, TACTILE (BEAT SPEED)			
S919	1-771-410-21	SWITCH, TACTILE (BPM CONTROL)			
S920	1-771-410-21	SWITCH, TACTILE (PAD B)			
S921	1-771-410-21	SWITCH, TACTILE (BEAT PATTERN)			
S922	1-771-410-21	SWITCH, TACTILE (BEAT ON/OFF)			
S923	1-771-410-21	SWITCH, TACTILE (BEAT LEVEL)			
S931	1-771-410-21	SWITCH, TACTILE (PAD A)			

CENTER KEY BOARD					

< RESISTOR >					
R944	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R945	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R946	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R947	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W

Ref. No.	Part No.	Description	Quantity	Power	Remark
R948	1-216-833-11	METAL CHIP	10K	5%	1/10W
R949	1-216-835-11	METAL CHIP	15K	5%	1/10W
R950	1-216-837-11	METAL CHIP	22K	5%	1/10W
R953	1-216-839-11	METAL CHIP	33K	5%	1/10W
R954	1-216-837-11	METAL CHIP	22K	5%	1/10W
R955	1-216-835-11	METAL CHIP	15K	5%	1/10W
R956	1-216-833-11	METAL CHIP	10K	5%	1/10W
R957	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R958	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R959	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R960	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R961	1-216-839-11	METAL CHIP	33K	5%	1/10W
R969	1-216-843-11	METAL CHIP	68K	5%	1/10W
< SWITCH >					
S924	1-771-410-21	SWITCH, TACTILE (◀◀/TUNING -)			
S925	1-771-410-21	SWITCH, TACTILE (▶▶)			
S926	1-771-410-21	SWITCH, TACTILE (▶▶/TUNING +)			
S927	1-771-410-21	SWITCH, TACTILE (◀◀/- □)			
S928	1-771-410-21	SWITCH, TACTILE (■)			
S929	1-771-410-21	SWITCH, TACTILE (▶▶/+ □)			
S930	1-771-410-21	SWITCH, TACTILE (ERASE)			
S937	1-771-410-21	SWITCH, TACTILE (RETURN)			
S939	1-771-410-21	SWITCH, TACTILE (CD-USB SYNC/REC 1)			
S940	1-771-410-21	SWITCH, TACTILE (TAPE REC PAUSE/START)			
S941	1-771-410-21	SWITCH, TACTILE (CD-TAPE SYNC)			
S942	1-771-410-21	SWITCH, TACTILE (DISC SKIP/EX-CHANGE)			
S943	1-771-410-21	SWITCH, TACTILE (▲ OPEN/CLOSE)			
S944	1-771-410-21	SWITCH, TACTILE (DISC 1)			
S945	1-771-410-21	SWITCH, TACTILE (DISC 2)			
S946	1-771-410-21	SWITCH, TACTILE (DISC 3)			
S947	1-771-410-21	SWITCH, TACTILE (ENTER)			

CENTER L LED BOARD					

< DIODE >					
D900	6-501-883-01	LED SELT1WA62CMKT-TP6 (CENTER L ILLUMINATION)			
D901	6-501-883-01	LED SELT1WA62CMKT-TP6 (CENTER L ILLUMINATION)			
D902	6-501-883-01	LED SELT1WA62CMKT-TP6 (CENTER L ILLUMINATION)			
D911	6-501-883-01	LED SELT1WA62CMKT-TP6 (CENTER L ILLUMINATION)			
< TRANSISTOR >					
Q900	8-729-027-50	TRANSISTOR DTC123JKA-T146			
< RESISTOR >					
R918	1-216-821-11	METAL CHIP	1K	5%	1/10W
R919	1-216-821-11	METAL CHIP	1K	5%	1/10W
R921	1-216-821-11	METAL CHIP	1K	5%	1/10W
R922	1-216-821-11	METAL CHIP	1K	5%	1/10W
R924	1-216-821-11	METAL CHIP	1K	5%	1/10W
R925	1-216-821-11	METAL CHIP	1K	5%	1/10W
R979	1-216-821-11	METAL CHIP	1K	5%	1/10W
R980	1-216-821-11	METAL CHIP	1K	5%	1/10W

CENTER R LED **DRIVER** **EFFECTOR**

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
CENTER R LED BOARD *****				< RESISTOR >			
		< DIODE >		R701	1-249-413-11	CARBON 470 5%	1/4W
D903	6-501-883-01	LED SELT1WA62CMKT-TP6 (CENTER R ILLUMINATION)		R702	1-247-807-31	CARBON 100 5%	1/4W
D904	6-501-883-01	LED SELT1WA62CMKT-TP6 (CENTER R ILLUMINATION)		R711	1-247-831-11	CARBON 1K 5%	1/4W
D905	6-501-883-01	LED SELT1WA62CMKT-TP6 (CENTER R ILLUMINATION)		R712	1-247-847-11	CARBON 4.7K 5%	1/4W
D910	6-501-883-01	LED SELT1WA62CMKT-TP6 (CENTER R ILLUMINATION)		R713	1-247-863-11	CARBON 22K 5%	1/4W
		< TRANSISTOR >		R721	1-247-847-11	CARBON 4.7K 5%	1/4W
Q901	8-729-027-50	TRANSISTOR DTC123JKA-T146		R722	1-247-847-11	CARBON 4.7K 5%	1/4W
		< RESISTOR >		R723	1-247-847-11	CARBON 4.7K 5%	1/4W
R927	1-216-821-11	METAL CHIP 1K 5%	1/10W	R731	1-247-807-31	CARBON 100 5%	1/4W
R928	1-216-821-11	METAL CHIP 1K 5%	1/10W	R732	1-249-429-11	CARBON 10K 5%	1/4W
R930	1-216-821-11	METAL CHIP 1K 5%	1/10W	R733	1-247-831-11	CARBON 1K 5%	1/4W
R931	1-216-821-11	METAL CHIP 1K 5%	1/10W	R734	1-249-430-11	CARBON 12K 5%	1/4W
R933	1-216-821-11	METAL CHIP 1K 5%	1/10W	R736	1-249-412-11	CARBON 390 5%	1/4W
R934	1-216-821-11	METAL CHIP 1K 5%	1/10W	R751	1-247-847-11	CARBON 4.7K 5%	1/4W
R983	1-216-821-11	METAL CHIP 1K 5%	1/10W	*****			
R984	1-216-821-11	METAL CHIP 1K 5%	1/10W	EFFECTOR BOARD *****			
*****				< CAPACITOR >			
		DRIVER BOARD *****		C1511	1-164-156-11	CERAMIC CHIP 0.1uF	25V
		< CAPACITOR >		C1512	1-126-956-11	ELECT 0.1uF	20% 50V
C715	1-126-933-11	ELECT 100uF 20%	16V	C1513	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C731	1-126-964-11	ELECT 10uF 20%	50V	C1514	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C735	1-164-159-11	CERAMIC 0.1uF	50V	C1515	1-126-947-11	ELECT 47uF	20% 35V
C736	1-164-159-11	CERAMIC 0.1uF	50V	C1517	1-162-965-11	CERAMIC CHIP 0.0015uF	10% 50V
C737	1-164-159-11	CERAMIC 0.1uF	50V	C1518	1-110-563-11	CERAMIC CHIP 0.068uF	10% 16V
C741	1-162-306-11	CERAMIC 0.01uF 20%	16V	C1519	1-136-159-00	FILM 0.033uF	5% 50V
C751	1-162-306-11	CERAMIC 0.01uF 20%	16V	C1520	1-162-961-11	CERAMIC CHIP 330PF	10% 50V
C752	1-164-159-11	CERAMIC 0.1uF	50V	C1521	1-162-961-11	CERAMIC CHIP 330PF	10% 50V
		< CONNECTOR >		C1522	1-162-965-11	CERAMIC CHIP 0.0015uF	10% 50V
CN701	1-784-735-11	CONNECTOR, FFC 13P		C1524	1-126-957-11	ELECT 0.22uF	20% 50V
CN702	1-784-766-11	CONNECTOR, FFC 5P		C1525	1-126-957-11	ELECT 0.22uF	20% 50V
* CN703	1-564-720-11	PIN, CONNECTOR (SMALL TYPE) 4P		C1526	1-136-497-81	FILM 0.1uF	5% 50V
CN704	1-785-328-11	PIN, CONNECTOR (LIGHT ANGLE) 2P		C1527	1-110-563-11	CERAMIC CHIP 0.068uF	10% 16V
		< DIODE >		C1528	1-104-658-11	ELECT 100uF	20% 10V
D701	8-719-947-16	DIODE MTZJ-T-72-5.1A		C1529	1-107-726-11	CERAMIC CHIP 0.01uF	10% 16V
D711	8-719-983-66	DIODE MTZJ-T-72-3.6B		C1530	1-136-159-00	FILM 0.033uF	5% 50V
		< IC >		C1531	1-126-947-11	ELECT 47uF	20% 35V
IC701	8-759-598-69	IC BA6956AN		C1533	1-162-961-11	CERAMIC CHIP 330PF	10% 50V
IC712	8-759-598-69	IC BA6956AN		C1534	1-162-965-11	CERAMIC CHIP 0.0015uF	10% 50V
		< TRANSISTOR >		C1535	1-136-159-00	FILM 0.033uF	5% 50V
Q731	8-729-029-66	TRANSISTOR DTC114ESA		C1536	1-162-961-11	CERAMIC CHIP 330PF	10% 50V
				C1537	1-126-956-11	ELECT 0.1uF	20% 50V
				C1540	1-126-957-11	ELECT 0.22uF	20% 50V
				C1541	1-126-957-11	ELECT 0.22uF	20% 50V
				C1542	1-130-479-00	MYLAR 0.0047uF	5% 50V
				C1543	1-110-563-11	CERAMIC CHIP 0.068uF	10% 16V
				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
				C1547	1-110-563-11	CERAMIC CHIP 0.068uF	10% 16V
				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

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EFFECTOR

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C1560	1-126-964-11	ELECT	10uF 20% 50V			< RESISTOR >	
C1561	1-126-964-11	ELECT	10uF 20% 50V				
C1562	1-126-964-11	ELECT	10uF 20% 50V				
C1563	1-126-961-11	ELECT	2.2uF 20% 50V				
C1564	1-126-961-11	ELECT	2.2uF 20% 50V				
C1565	1-126-961-11	ELECT	2.2uF 20% 50V				
C1568	1-164-156-11	CERAMIC CHIP	0.1uF 25V				
C1570	1-126-947-11	ELECT	47uF 20% 35V				
C1572	1-164-156-11	CERAMIC CHIP	0.1uF 25V				
C1574	1-162-965-11	CERAMIC CHIP	0.0015uF 10% 50V				
C1577	1-126-947-11	ELECT	47uF 20% 35V				
C1584	1-104-658-11	ELECT	100uF 20% 10V				
C1601	1-126-964-11	ELECT	10uF 20% 50V				
C1602	1-126-964-11	ELECT	10uF 20% 50V				
C2330	1-136-497-81	FILM	0.1uF 5% 50V				
C2331	1-136-159-00	FILM	0.033uF 5% 50V				
		< CONNECTOR >					
CN1502	1-779-287-11	CONNECTOR, FFC (LIF (NON-ZIF)) 19P					
		< DIODE >					
D1502	6-501-169-01	DIODE UDWZ-TE17-6.2B					
D1503	8-719-404-50	DIODE MA111-TX					
D1504	8-719-404-50	DIODE MA111-TX					
D1505	8-719-404-50	DIODE MA111-TX					
D1506	8-719-404-50	DIODE MA111-TX					
D1507	8-719-404-50	DIODE MA111-TX					
D1508	8-719-404-50	DIODE MA111-TX					
		< IC >					
IC1501	8-759-496-41	IC M65850FP-E1					
IC1502	6-709-217-01	IC TC74LVX4051FT					
IC1503	6-709-217-01	IC TC74LVX4051FT					
IC1504	8-759-496-41	IC M65850FP-E1					
IC1505	8-759-710-97	IC NJM4565M-D					
		< COIL >					
L1500	1-414-183-41	INDUCTOR	10uH				
		< TRANSISTOR >					
Q1500	8-729-055-10	FET 2SK3378ENTL					
Q1501	8-729-055-10	FET 2SK3378ENTL					
Q1502	8-729-055-10	FET 2SK3378ENTL					
Q1503	8-729-055-10	FET 2SK3378ENTL					
Q1504	8-729-055-10	FET 2SK3378ENTL					
Q1505	8-729-055-10	FET 2SK3378ENTL					
Q1506	8-729-055-10	FET 2SK3378ENTL					
Q1507	8-729-056-46	TRANSISTOR 2SC5053T100Q					
Q1508	8-729-055-10	FET 2SK3378ENTL					
Q1509	8-729-027-43	TRANSISTOR DTC114EKA-T146					
Q1510	8-729-027-43	TRANSISTOR DTC114EKA-T146					
Q1511	8-729-027-43	TRANSISTOR DTC114EKA-T146					
Q1512	8-729-027-43	TRANSISTOR DTC114EKA-T146					
Q1513	8-729-027-43	TRANSISTOR DTC114EKA-T146					
Q1514	8-729-027-43	TRANSISTOR DTC114EKA-T146					
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				
R1506	1-216-809-11	METAL CHIP	100 5% 1/10W				
R1507	1-216-809-11	METAL CHIP	100 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	1-216-840-11	METAL CHIP	39K 5% 1/10W				
R1522	1-216-864-11	SHORT CHIP	0				
R1525	1-216-809-11	METAL CHIP	100 5% 1/10W				
R1527	1-216-809-11	METAL CHIP	100 5% 1/10W				
R1530	1-216-817-11	METAL CHIP	470 5% 1/10W				
R1531	1-218-289-11	METAL CHIP	510 5% 1/10W				
R1532	1-216-818-11	METAL CHIP	560 5% 1/10W				
R1533	1-216-819-11	METAL CHIP	680 5% 1/10W				
R1534	1-218-484-11	METAL CHIP	750 5% 1/10W				
R1535	1-216-820-11	METAL CHIP	820 5% 1/10W				
R1536	1-218-457-11	METAL CHIP	910 5% 1/10W				
R1538	1-216-838-11	METAL CHIP	27K 5% 1/10W				
R1539	1-216-821-11	METAL CHIP	1K 5% 1/10W				
R1540	1-216-822-11	METAL CHIP	1.2K 5% 1/10W				
R1541	1-216-823-11	METAL CHIP	1.5K 5% 1/10W				
R1542	1-216-824-11	METAL CHIP	1.8K 5% 1/10W				
R1543	1-216-825-11	METAL CHIP	2.2K 5% 1/10W				
R1544	1-216-836-11	METAL CHIP	18K 5% 1/10W				
R1545	1-216-839-11	METAL CHIP	33K 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				
R1552	1-216-836-11	METAL CHIP	18K 5% 1/10W				
R1553	1-216-836-11	METAL CHIP	18K 5% 1/10W				
R1554	1-216-836-11	METAL CHIP	18K 5% 1/10W				
R1555	1-216-836-11	METAL CHIP	18K 5% 1/10W				
R1556	1-216-836-11	METAL CHIP	18K 5% 1/10W				
R1561	1-216-840-11	METAL CHIP	39K 5% 1/10W				
R1563	1-216-864-11	SHORT CHIP	0				
R1564	1-216-838-11	METAL CHIP	27K 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	1-216-829-11	METAL CHIP	4.7K 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	1-216-829-11	METAL CHIP	4.7K 5% 1/10W				
R1577	1-216-833-11	METAL CHIP	10K 5% 1/10W				
R1578	1-216-833-11	METAL CHIP	10K 5% 1/10W				
R1579	1-216-845-11	METAL CHIP	100K 5% 1/10W				

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R1580	1-216-837-11	METAL CHIP	22K 5% 1/10W	C953	1-162-960-11	CERAMIC CHIP 220PF 10% 50V	
R1581	1-216-837-11	METAL CHIP	22K 5% 1/10W	C954	1-162-960-11	CERAMIC CHIP 220PF 10% 50V	
R1582	1-216-845-11	METAL CHIP	100K 5% 1/10W	C955	1-162-960-11	CERAMIC CHIP 220PF 10% 50V	
R1583	1-216-833-11	METAL CHIP	10K 5% 1/10W	C956	1-162-960-11	CERAMIC CHIP 220PF 10% 50V	
R1588	1-216-836-11	METAL CHIP	18K 5% 1/10W	C957	1-162-960-11	CERAMIC CHIP 220PF 10% 50V	
R1589	1-216-803-11	METAL CHIP	33 5% 1/10W	C958	1-162-960-11	CERAMIC CHIP 220PF 10% 50V	
R1590	1-216-841-11	METAL CHIP	47K 5% 1/10W	C959	1-162-960-11	CERAMIC CHIP 220PF 10% 50V	
R1591	1-216-841-11	METAL CHIP	47K 5% 1/10W	C962	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
R1592	1-216-864-11	SHORT CHIP	0	C975	1-162-960-11	CERAMIC CHIP 220PF 10% 50V	
R1593	1-216-864-11	SHORT CHIP	0	C977	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
R1594	1-216-864-11	SHORT CHIP	0	C981	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
R1595	1-216-864-11	SHORT CHIP	0	C982	1-119-941-11	ELECT 470uF 20% 6.3V	
R1596	1-216-833-11	METAL CHIP	10K 5% 1/10W	C983	1-119-941-11	ELECT 470uF 20% 6.3V	
R1597	1-216-833-11	METAL CHIP	10K 5% 1/10W	C984	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
R1598	1-216-833-11	METAL CHIP	10K 5% 1/10W	C1024	1-162-960-11	CERAMIC CHIP 220PF 10% 50V	
R1599	1-216-833-11	METAL CHIP	10K 5% 1/10W	C1025	1-162-960-11	CERAMIC CHIP 220PF 10% 50V	
R1600	1-216-838-11	METAL CHIP	27K 5% 1/10W	C1026	1-162-962-11	CERAMIC CHIP 470PF 10% 50V	
R1601	1-216-845-11	METAL CHIP	100K 5% 1/10W	C1027	1-162-960-11	CERAMIC CHIP 220PF 10% 50V	
R1602	1-216-838-11	METAL CHIP	27K 5% 1/10W	C1028	1-162-960-11	CERAMIC CHIP 220PF 10% 50V	
R1603	1-216-845-11	METAL CHIP	100K 5% 1/10W	C1029	1-162-960-11	CERAMIC CHIP 220PF 10% 50V	
R1604	1-216-837-11	METAL CHIP	22K 5% 1/10W	C1030	1-162-960-11	CERAMIC CHIP 220PF 10% 50V	
R1605	1-216-837-11	METAL CHIP	22K 5% 1/10W	C1031	1-162-960-11	CERAMIC CHIP 220PF 10% 50V	
R1606	1-216-837-11	METAL CHIP	22K 5% 1/10W	C1032	1-162-960-11	CERAMIC CHIP 220PF 10% 50V	
R1607	1-216-837-11	METAL CHIP	22K 5% 1/10W	C1033	1-162-960-11	CERAMIC CHIP 220PF 10% 50V	

A-1257-600-A	FL BOARD, COMPLETE			C1034	1-162-960-11	CERAMIC CHIP 220PF 10% 50V	
	*****			C1035	1-162-960-11	CERAMIC CHIP 220PF 10% 50V	
	< CAPACITOR >			C1036	1-162-960-11	CERAMIC CHIP 220PF 10% 50V	
C903	1-124-257-00	ELECT	2.2uF 20% 50V	C1037	1-162-960-11	CERAMIC CHIP 220PF 10% 50V	
C905	1-124-257-00	ELECT	2.2uF 20% 50V	C1038	1-162-960-11	CERAMIC CHIP 220PF 10% 50V	
C907	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	C1039	1-162-960-11	CERAMIC CHIP 220PF 10% 50V	
C908	1-124-589-11	ELECT	47uF 20% 16V	C1040	1-162-960-11	CERAMIC CHIP 220PF 10% 50V	
C917	1-115-156-11	CERAMIC CHIP	1uF 10V	C1041	1-162-960-11	CERAMIC CHIP 220PF 10% 50V	
C918	1-115-156-11	CERAMIC CHIP	1uF 10V	C1042	1-162-960-11	CERAMIC CHIP 220PF 10% 50V	
C919	1-115-156-11	CERAMIC CHIP	1uF 10V	C1043	1-162-960-11	CERAMIC CHIP 220PF 10% 50V	
C920	1-115-156-11	CERAMIC CHIP	1uF 10V	C1044	1-162-960-11	CERAMIC CHIP 220PF 10% 50V	
C921	1-115-156-11	CERAMIC CHIP	1uF 10V	C1045	1-162-960-11	CERAMIC CHIP 220PF 10% 50V	
C922	1-124-261-00	ELECT	10uF 20% 50V	C1046	1-162-960-11	CERAMIC CHIP 220PF 10% 50V	
C923	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	C1047	1-162-962-11	CERAMIC CHIP 470PF 10% 50V	
C924	1-164-156-11	CERAMIC CHIP	0.1uF 25V	< CONNECTOR >			
C925	1-124-261-00	ELECT	10uF 20% 50V	CN900	1-784-739-11	CONNECTOR, FFC 17P	
C926	1-162-962-11	CERAMIC CHIP	470PF 10% 50V	CN902	1-785-334-11	PIN, CONNECTOR (LIGHT ANGLE) 8P	
C927	1-162-962-11	CERAMIC CHIP	470PF 10% 50V	CN905	1-785-335-11	PIN, CONNECTOR (LIGHT ANGLE) 9P	
C928	1-165-176-11	CERAMIC CHIP	0.047uF 10% 16V	CN906	1-785-336-11	PIN, CONNECTOR (LIGHT ANGLE) 10P	
C929	1-164-227-11	CERAMIC CHIP	0.022uF 10% 25V	CN917	1-785-329-11	PIN, CONNECTOR (LIGHT ANGLE) 3P	
C930	1-164-227-11	CERAMIC CHIP	0.022uF 10% 25V	CN918	1-785-329-11	PIN, CONNECTOR (LIGHT ANGLE) 3P	
C931	1-162-968-11	CERAMIC CHIP	0.0047uF 10% 50V	CN919	1-785-328-11	PIN, CONNECTOR (LIGHT ANGLE) 2P	
C932	1-162-968-11	CERAMIC CHIP	0.0047uF 10% 50V	< DIODE >			
C933	1-115-156-11	CERAMIC CHIP	1uF 10V	D911	6-501-171-01	DIODE UDZW-TE17-7.5B	
C934	1-115-156-11	CERAMIC CHIP	1uF 10V	D912	6-500-522-21	DIODE 10EDB40-TB3	
C935	1-124-261-00	ELECT	10uF 20% 50V	D914	6-500-522-21	DIODE 10EDB40-TB3	
C936	1-165-176-11	CERAMIC CHIP	0.047uF 10% 16V	< VACUUM FLUORESCENT DISPLAY >			
C948	1-124-261-00	ELECT	10uF 20% 50V	FL900	1-519-955-11	VACUUM FLUORESCENT DISPLAY	
C949	1-164-156-11	CERAMIC CHIP	0.1uF 25V				
C950	1-164-156-11	CERAMIC CHIP	0.1uF 25V				
C951	1-164-156-11	CERAMIC CHIP	0.1uF 25V				
C952	1-162-960-11	CERAMIC CHIP	220PF 10% 50V				

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FL **HP-VIDEO** **ILLUMINATION**

Ref. No.	Part No.	Description	Remark
		< IC >	
IC900	6-807-470-01	IC MB90M407PF-G-152-BND	
IC903	6-711-556-01	IC NJL24H400B-SA (IR)	
IC904	6-705-678-01	IC NJM2760V-TE2	
		< TRANSISTOR >	
Q906	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q907	8-729-106-60	TRANSISTOR 2SB1115A-YQ	
Q908	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q909	8-729-106-60	TRANSISTOR 2SB1115A-YQ	
Q910	8-729-027-56	TRANSISTOR DTC143TKA-T146	
Q911	8-729-027-56	TRANSISTOR DTC143TKA-T146	
Q912	8-729-027-56	TRANSISTOR DTC143TKA-T146	
Q913	8-729-027-56	TRANSISTOR DTC143TKA-T146	
Q914	8-729-027-43	TRANSISTOR DTC114EKA-T146	
		< RESISTOR >	
R934	1-216-817-11	METAL CHIP 470	5% 1/10W
R936	1-216-817-11	METAL CHIP 470	5% 1/10W
R938	1-216-821-11	METAL CHIP 1K	5% 1/10W
R939	1-216-821-11	METAL CHIP 1K	5% 1/10W
R940	1-216-833-11	METAL CHIP 10K	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	1-216-817-11	METAL CHIP 470	5% 1/10W
R944	1-216-819-11	METAL CHIP 680	5% 1/10W
R945	1-216-821-11	METAL CHIP 1K	5% 1/10W
R949	1-216-833-11	METAL CHIP 10K	5% 1/10W
R950	1-216-833-11	METAL CHIP 10K	5% 1/10W
R951	1-216-833-11	METAL CHIP 10K	5% 1/10W
R952	1-216-809-11	METAL CHIP 100	5% 1/10W
R953	1-216-809-11	METAL CHIP 100	5% 1/10W
R954	1-216-809-11	METAL CHIP 100	5% 1/10W
R955	1-216-809-11	METAL CHIP 100	5% 1/10W
R956	1-216-809-11	METAL CHIP 100	5% 1/10W
R957	1-216-809-11	METAL CHIP 100	5% 1/10W
R958	1-216-809-11	METAL CHIP 100	5% 1/10W
R959	1-216-809-11	METAL CHIP 100	5% 1/10W
R960	1-216-809-11	METAL CHIP 100	5% 1/10W
R961	1-216-809-11	METAL CHIP 100	5% 1/10W
R964	1-216-835-11	METAL CHIP 15K	5% 1/10W
R965	1-216-835-11	METAL CHIP 15K	5% 1/10W
R966	1-216-835-11	METAL CHIP 15K	5% 1/10W
R967	1-216-835-11	METAL CHIP 15K	5% 1/10W
R968	1-216-809-11	METAL CHIP 100	5% 1/10W
R969	1-216-809-11	METAL CHIP 100	5% 1/10W
R970	1-216-809-11	METAL CHIP 100	5% 1/10W
R971	1-216-809-11	METAL CHIP 100	5% 1/10W
R973	1-216-809-11	METAL CHIP 100	5% 1/10W
R974	1-216-809-11	METAL CHIP 100	5% 1/10W
R975	1-216-809-11	METAL CHIP 100	5% 1/10W
R977	1-216-809-11	METAL CHIP 100	5% 1/10W
R978	1-216-864-11	SHORT CHIP 0	
R979	1-216-809-11	METAL CHIP 100	5% 1/10W
R980	1-216-833-11	METAL CHIP 10K	5% 1/10W
R981	1-216-821-11	METAL CHIP 1K	5% 1/10W
R982	1-216-821-11	METAL CHIP 1K	5% 1/10W

Ref. No.	Part No.	Description	Remark
R983	1-216-857-11	METAL CHIP 1M	5% 1/10W
R989	1-216-833-11	METAL CHIP 10K	5% 1/10W
R990	1-216-833-11	METAL CHIP 10K	5% 1/10W
R992	1-216-821-11	METAL CHIP 1K	5% 1/10W
R993	1-216-821-11	METAL CHIP 1K	5% 1/10W
R994	1-216-821-11	METAL CHIP 1K	5% 1/10W
R995	1-216-821-11	METAL CHIP 1K	5% 1/10W
R996	1-216-834-11	METAL CHIP 12K	5% 1/10W
R997	1-216-833-11	METAL CHIP 10K	5% 1/10W
R998	1-216-830-11	METAL CHIP 5.6K	5% 1/10W
R999	1-218-867-11	METAL CHIP 6.8K	0.5% 1/10W
R1000	1-216-842-11	METAL CHIP 56K	5% 1/10W
R1001	1-216-839-11	METAL CHIP 33K	5% 1/10W
R1002	1-216-826-11	METAL CHIP 2.7K	5% 1/10W
R1060	1-216-845-11	METAL CHIP 100K	5% 1/10W
R1061	1-216-845-11	METAL CHIP 100K	5% 1/10W
R1062	1-216-845-11	METAL CHIP 100K	5% 1/10W
R1063	1-216-845-11	METAL CHIP 100K	5% 1/10W
R1074	1-216-805-11	METAL CHIP 47	5% 1/10W
		< SWITCH >	
S905	1-771-410-21	SWITCH, TACTILE (AUDIO)	
S906	1-771-410-21	SWITCH, TACTILE (VIDEO)	
S907	1-771-410-21	SWITCH, TACTILE (USB)	
S908	1-771-410-21	SWITCH, TACTILE (DISPLAY)	
		< VIBRATOR >	
X900	1-781-282-51	VIBRATOR, CERAMIC (4MHz)	

HP-VIDEO BOARD			

		< CAPACITOR >	
C992	1-164-156-11	CERAMIC CHIP 0.1uF	25V
		< DIODE >	
D921	6-501-579-01	DIODE MC2837	
		< JUMPER RESISTOR >	
FB900	1-216-864-11	SHORT CHIP 0	
FB901	1-216-864-11	SHORT CHIP 0	
		< JACK >	
J904	1-817-629-11	JACK (LARGE TYPE) (PHONES)	
		< JUMPER RESISTOR >	
JR906	1-216-864-11	SHORT CHIP 0	

ILLUMINATION BOARD			

		< CAPACITOR >	
C900	1-216-864-11	SHORT CHIP 0	
C909	1-162-953-11	CERAMIC CHIP 100PF	5% 50V
C910	1-162-953-11	CERAMIC CHIP 100PF	5% 50V

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		< DIODE >				< RESISTOR >	
D903	8-719-064-63	LED SELU5823A-TP15 (VOL ILLUMINATION (VOL 1))		R900	1-216-823-11	METAL CHIP 1.5K 5% 1/10W	
D904	8-719-064-63	LED SELU5823A-TP15 (VOL ILLUMINATION (VOL 2))		R901	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
D905	8-719-064-63	LED SELU5823A-TP15 (VOL ILLUMINATION (VOL 3))		R902	1-216-827-11	METAL CHIP 3.3K 5% 1/10W	
D906	8-719-064-63	LED SELU5823A-TP15 (VOL ILLUMINATION (VOL 4))		R903	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
D907	8-719-064-63	LED SELU5823A-TP15 (VOL ILLUMINATION (VOL 5))		R904	1-218-867-11	METAL CHIP 6.8K 0.5% 1/10W	
D908	8-719-064-63	LED SELU5823A-TP15 (VOL ILLUMINATION (VOL 6))		R905	1-216-833-11	METAL CHIP 10K 5% 1/10W	
D909	8-719-064-63	LED SELU5823A-TP15 (VOL ILLUMINATION (VOL 7))		R906	1-216-835-11	METAL CHIP 15K 5% 1/10W	
D910	8-719-064-63	LED SELU5823A-TP15 (VOL ILLUMINATION (VOL 8))		R907	1-216-837-11	METAL CHIP 22K 5% 1/10W	
		< TRANSISTOR >		R908	1-216-839-11	METAL CHIP 33K 5% 1/10W	
Q902	8-729-027-43	TRANSISTOR DTC114EKA-T146		R952	1-216-821-11	METAL CHIP 1K 5% 1/10W	
Q903	8-729-027-43	TRANSISTOR DTC114EKA-T146		R970	1-216-821-11	METAL CHIP 1K 5% 1/10W	
Q904	8-729-027-43	TRANSISTOR DTC114EKA-T146		R971	1-216-821-11	METAL CHIP 1K 5% 1/10W	
Q905	8-729-027-43	TRANSISTOR DTC114EKA-T146		R972	1-216-821-11	METAL CHIP 1K 5% 1/10W	
		< RESISTOR >				< SWITCH >	
R910	1-216-821-11	METAL CHIP 1K 5% 1/10W		S900	1-771-410-21	SWITCH, TACTILE (ROCK)	
R911	1-216-821-11	METAL CHIP 1K 5% 1/10W		S901	1-771-410-21	SWITCH, TACTILE (POP)	
R912	1-216-821-11	METAL CHIP 1K 5% 1/10W		S902	1-771-410-21	SWITCH, TACTILE (JAZZ)	
R913	1-216-821-11	METAL CHIP 1K 5% 1/10W		S903	1-771-410-21	SWITCH, TACTILE (DANCE)	
R914	1-216-821-11	METAL CHIP 1K 5% 1/10W		S904	1-771-410-21	SWITCH, TACTILE (USER EQ)	
R915	1-216-821-11	METAL CHIP 1K 5% 1/10W		S905	1-771-410-21	SWITCH, TACTILE (EQ BAND/MEMORY)	
R916	1-216-821-11	METAL CHIP 1K 5% 1/10W		S906	1-771-410-21	SWITCH, TACTILE (AMP MENU)	
R917	1-216-821-11	METAL CHIP 1K 5% 1/10W		S907	1-771-410-21	SWITCH, TACTILE (FLANGER)	
R918	1-216-821-11	METAL CHIP 1K 5% 1/10W		S908	1-771-410-21	SWITCH, TACTILE (DELAY)	
R919	1-216-821-11	METAL CHIP 1K 5% 1/10W				*****	
R920	1-216-821-11	METAL CHIP 1K 5% 1/10W		A-1257-651-A	MAIN BOARD, COMPLETE (E2)		
R921	1-216-821-11	METAL CHIP 1K 5% 1/10W		A-1313-359-A	MAIN BOARD, COMPLETE (E13)		
R922	1-216-821-11	METAL CHIP 1K 5% 1/10W		A-1313-360-A	MAIN BOARD, COMPLETE (AUS)		
R923	1-216-821-11	METAL CHIP 1K 5% 1/10W		A-1363-636-A	MAIN BOARD, COMPLETE (E51)		
R924	1-216-821-11	METAL CHIP 1K 5% 1/10W		A-1392-704-A	MAIN BOARD, COMPLETE (US)		
R925	1-216-821-11	METAL CHIP 1K 5% 1/10W				*****	
		LEFT KEY BOARD		7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3		
		*****				< CAPACITOR >	
		< CAPACITOR >		C101	1-126-964-11	ELECT 10uF 20% 50V (E2,E13,E51)	
C911	1-164-156-11	CERAMIC CHIP 0.1uF 25V		C102	1-126-925-11	ELECT 470uF 20% 10V	
C912	1-164-156-11	CERAMIC CHIP 0.1uF 25V		C104	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C913	1-162-960-11	CERAMIC CHIP 220PF 10% 50V		C105	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C914	1-162-960-11	CERAMIC CHIP 220PF 10% 50V		C110	1-162-919-11	CERAMIC CHIP 22PF 5% 50V	
		< DIODE >		C111	1-162-919-11	CERAMIC CHIP 22PF 5% 50V	
D906	6-500-727-01	LED SLR-343DCT32 (FLANGER)		C112	1-100-566-11	CERAMIC CHIP 0.1uF 10% 25V	
D908	6-500-727-01	LED SLR-343DCT32 (DELAY)		C115	1-100-566-11	CERAMIC CHIP 0.1uF 10% 25V	
D912	6-501-579-01	DIODE MC2837		C116	1-104-656-11	ELECT 2200uF 20% 6.3V	
		< TRANSISTOR >		C124	1-126-923-11	ELECT 220uF 20% 10V	
Q902	8-729-027-50	TRANSISTOR DTC123JKA-T146		C125	1-100-566-11	CERAMIC CHIP 0.1uF 10% 25V	
				C126	1-100-566-11	CERAMIC CHIP 0.1uF 10% 25V	
				C131	1-100-566-11	CERAMIC CHIP 0.1uF 10% 25V	
				C150	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
				C151	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
				C152	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
				C162	1-104-658-11	ELECT 100uF 20% 10V	
				C164	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
				C201	1-164-730-11	CERAMIC CHIP 0.0012uF 10% 50V	
				C203	1-162-960-11	CERAMIC CHIP 220PF 10% 50V	
				C204	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
				C205	1-162-928-11	CERAMIC CHIP 120PF 5% 50V	

HCD-ZUX9

MAIN

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C206	1-162-959-11	CERAMIC CHIP	330PF	5%	50V	C338	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C207	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	C339	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C208	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C341	1-126-933-11	ELECT	100uF	20%	16V
C209	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	C342	1-126-933-11	ELECT	100uF	20%	16V
C213	1-126-926-11	ELECT	1000uF	20%	10V	C343	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C216	1-126-925-11	ELECT	470uF	20%	10V	C344	1-126-933-11	ELECT	100uF	20%	16V
C217	1-126-925-11	ELECT	470uF	20%	10V	C346	1-126-959-11	ELECT	0.47uF	20%	50V
C219	1-126-926-11	ELECT	1000uF	20%	10V	C348	1-126-964-11	ELECT	10uF	20%	50V
C223	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C349	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C224	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C350	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C245	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	C351	1-126-964-11	ELECT	10uF	20%	50V
C246	1-137-150-11	FILM	0.01uF	5%	100V	C352	1-126-964-11	ELECT	10uF	20%	50V
C247	1-126-947-11	ELECT	47uF	20%	35V	C353	1-126-964-11	ELECT	10uF	20%	50V
C248	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C354	1-126-964-11	ELECT	10uF	20%	50V
C249	1-130-481-00	MYLAR	0.0068uF	5%	50V	C356	1-126-964-11	ELECT	10uF	20%	50V
C251	1-164-730-11	CERAMIC CHIP	0.0012uF	10%	50V	C357	1-136-497-81	FILM	0.1uF	5%	50V
C253	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	C358	1-126-964-11	ELECT	10uF	20%	50V
C254	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C360	1-130-487-00	MYLAR	0.022uF	5%	50V
C255	1-162-928-11	CERAMIC CHIP	120PF	5%	50V	C361	1-130-487-00	MYLAR	0.022uF	5%	50V
C256	1-162-959-11	CERAMIC CHIP	330PF	5%	50V	C363	1-126-964-11	ELECT	10uF	20%	50V
C257	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	C364	1-130-487-00	MYLAR	0.022uF	5%	50V
C258	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C366	1-136-293-11	FILM	0.0082uF	5%	100V
C269	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	C368	1-126-964-11	ELECT	10uF	20%	50V
C270	1-136-497-81	FILM	0.1uF	5%	50V	C369	1-137-193-11	FILM	0.39uF	5%	50V
C271	1-136-497-81	FILM	0.1uF	5%	50V	C370	1-137-193-11	FILM	0.39uF	5%	50V
C273	1-126-964-11	ELECT	10uF	20%	50V	C371	1-126-963-11	ELECT	4.7uF	20%	50V
C285	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C373	1-126-964-11	ELECT	10uF	20%	50V
C286	1-162-953-11	CERAMIC CHIP	100PF	5%	50V	C376	1-130-483-00	MYLAR	0.01uF	5%	50V
C287	1-162-953-11	CERAMIC CHIP	100PF	5%	50V	C382	1-130-483-00	MYLAR	0.01uF	5%	50V
C288	1-162-953-11	CERAMIC CHIP	100PF	5%	50V	C383	1-126-960-11	ELECT	1uF	20%	50V
C289	1-162-953-11	CERAMIC CHIP	100PF	5%	50V	C385	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C290	1-162-953-11	CERAMIC CHIP	100PF	5%	50V	C386	1-126-964-11	ELECT	10uF	20%	50V
C299	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	C388	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C300	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V	C389	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C301	1-126-964-11	ELECT	10uF	20%	50V	C398	1-126-964-11	ELECT	10uF	20%	50V
C302	1-126-964-11	ELECT	10uF	20%	50V	C400	1-126-963-11	ELECT	4.7uF	20%	50V
C303	1-126-964-11	ELECT	10uF	20%	50V	C404	1-126-964-11	ELECT	10uF	20%	50V
C304	1-126-964-11	ELECT	10uF	20%	50V	C406	1-126-964-11	ELECT	10uF	20%	50V
C305	1-126-960-11	ELECT	1uF	20%	50V	C416	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C306	1-126-964-11	ELECT	10uF	20%	50V	C417	1-126-923-11	ELECT	220uF	20%	10V
C307	1-136-497-81	FILM	0.1uF	5%	50V	C423	1-137-195-11	FILM	0.56uF	5%	50V
C308	1-126-964-11	ELECT	10uF	20%	50V	C424	1-136-167-00	FILM	0.15uF	5%	50V
C310	1-130-487-00	MYLAR	0.022uF	5%	50V	C426	1-104-658-11	ELECT	100uF	20%	10V
C311	1-130-487-00	MYLAR	0.022uF	5%	50V	C427	1-104-658-11	ELECT	100uF	20%	10V
C313	1-126-964-11	ELECT	10uF	20%	50V	C432	1-126-960-11	ELECT	1uF	20%	50V
C314	1-130-487-00	MYLAR	0.022uF	5%	50V	C450	1-126-963-11	ELECT	4.7uF	20%	50V
C316	1-136-293-11	FILM	0.0082uF	5%	100V	C454	1-126-964-11	ELECT	10uF	20%	50V
C318	1-126-964-11	ELECT	10uF	20%	50V	C456	1-126-964-11	ELECT	10uF	20%	50V
C319	1-137-193-11	FILM	0.39uF	5%	50V	C473	1-137-195-11	FILM	0.56uF	5%	50V
C320	1-137-193-11	FILM	0.39uF	5%	50V	C474	1-136-167-00	FILM	0.15uF	5%	50V
C321	1-126-963-11	ELECT	4.7uF	20%	50V	C482	1-126-960-11	ELECT	1uF	20%	50V
C326	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C501	1-126-964-11	ELECT	10uF	20%	50V
C327	1-104-658-11	ELECT	100uF	20%	10V	C502	1-126-964-11	ELECT	10uF	20%	50V
C330	1-137-374-11	MYLAR	0.047uF	5%	50V	C503	1-126-964-11	ELECT	10uF	20%	50V
C332	1-137-194-81	FILM	0.47uF	5%	50V	C504	1-126-964-11	ELECT	10uF	20%	50V
C333	1-126-960-11	ELECT	1uF	20%	50V	C505	1-126-964-11	ELECT	10uF	20%	50V
C335	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C506	1-126-964-11	ELECT	10uF	20%	50V
C336	1-126-964-11	ELECT	10uF	20%	50V	C507	1-126-964-11	ELECT	10uF	20%	50V

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C508	1-164-156-11	CERAMIC CHIP	0.1uF	25V	* CN600	1-564-506-11	PLUG, CONNECTOR 3P
C509	1-126-925-11	ELECT	470uF	20%			
C510	1-164-156-11	CERAMIC CHIP	0.1uF	25V			< DIODE >
C511	1-126-925-11	ELECT	470uF	20%	D102	6-500-334-01	DIODE MC2836-T112-1
C512	1-126-964-11	ELECT	10uF	20%	D103	6-500-334-01	DIODE MC2836-T112-1
C513	1-126-964-11	ELECT	10uF	20%	D105	8-719-404-50	DIODE MA111-TX
C516	1-126-964-11	ELECT	10uF	20%	D150	8-719-404-50	DIODE MA111-TX
C517	1-126-964-11	ELECT	10uF	20%	D205	8-719-404-50	DIODE MA111-TX
C518	1-126-964-11	ELECT	10uF	20%			
C529	1-126-963-11	ELECT	4.7uF	20%	D207	8-719-404-50	DIODE MA111-TX
C530	1-126-963-11	ELECT	4.7uF	20%	D224	6-501-579-01	DIODE MC2837
C531	1-126-963-11	ELECT	4.7uF	20%	D257	8-719-404-50	DIODE MA111-TX
C532	1-126-963-11	ELECT	4.7uF	20%	D270	8-719-404-50	DIODE MA111-TX
C533	1-126-963-11	ELECT	4.7uF	20%	D272	6-501-579-01	DIODE MC2837
C534	1-126-963-11	ELECT	4.7uF	20%			
C535	1-126-963-11	ELECT	4.7uF	20%	D530	8-719-404-50	DIODE MA111-TX
C536	1-126-963-11	ELECT	4.7uF	20%	D545	6-501-177-01	DIODE UDW-TE17-13B
C545	1-164-156-11	CERAMIC CHIP	0.1uF	25V	D549	6-501-163-01	DIODE UDW-TE17-3.6B
C546	1-164-156-11	CERAMIC CHIP	0.1uF	25V	D550	6-500-522-21	DIODE 10EDB40-TB3
C550	1-100-566-11	CERAMIC CHIP	0.1uF	10%	D551	6-500-522-21	DIODE 10EDB40-TB3
C551	1-126-935-11	ELECT	470uF	20%	D554	6-500-522-21	DIODE 10EDB40-TB3
C552	1-100-566-11	CERAMIC CHIP	0.1uF	10%	D555	6-500-522-21	DIODE 10EDB40-TB3
C553	1-126-935-11	ELECT	470uF	20%	D556	6-500-522-21	DIODE 10EDB40-TB3
C560	1-126-946-11	ELECT	6800uF	20%	D557	8-719-058-24	DIODE RB501V-40TE-17
C561	1-128-548-11	ELECT	4700uF	20%	D558	8-719-404-50	DIODE MA111-TX (E2,E13,E51)
C563	1-130-483-00	MYLAR	0.01uF	5%	* D560	8-719-500-62	DIODE D5SBA60
C565	1-130-483-00	MYLAR	0.01uF	5%	* D561	8-719-500-62	DIODE D5SBA60
C567	1-130-483-00	MYLAR	0.01uF	5%	D600	6-501-169-01	DIODE UDW-TE17-6.2B
C569	1-130-483-00	MYLAR	0.01uF	5%	D601	6-501-170-01	DIODE UDW-TE17-6.8B
C574	1-100-566-11	CERAMIC CHIP	0.1uF	10%	D602	8-719-071-54	DIODE HZU2.0BTRF
C577	1-104-656-11	ELECT	2200uF	20%			< FERRITE BEAD >
C579	1-100-566-11	CERAMIC CHIP	0.1uF	10%	FB200	1-216-864-11	SHORT CHIP 0
C580	1-104-655-11	ELECT	470uF	20%	FB203	1-469-125-21	FERRITE, EMI (SMD) (1608)
C581	1-100-566-11	CERAMIC CHIP	0.1uF	10%	FB215	1-500-283-11	INDUCTOR, FERRITE BEAD
C583	1-104-656-11	ELECT	2200uF	20%	FB216	1-500-283-11	INDUCTOR, FERRITE BEAD
C600	1-100-566-11	CERAMIC CHIP	0.1uF	10%	FB217	1-500-283-11	INDUCTOR, FERRITE BEAD
C601	1-100-566-11	CERAMIC CHIP	0.1uF	10%	FB218	1-500-283-11	INDUCTOR, FERRITE BEAD
C602	1-126-767-11	ELECT	1000uF	20%	FB219	1-500-283-11	INDUCTOR, FERRITE BEAD
C620	1-162-960-11	CERAMIC CHIP	220PF	10%	FB253	1-469-125-21	FERRITE, EMI (SMD) (1608)
C622	1-162-960-11	CERAMIC CHIP	220PF	10%			< IC >
C628	1-164-156-11	CERAMIC CHIP	0.1uF	25V	IC100	6-807-469-01	IC M30624MGP-B33FPU0 (US)
C670	1-162-960-11	CERAMIC CHIP	220PF	10%	IC100	6-807-835-01	IC M30624MGP-B34FPU0 (EXCEPT US)
C672	1-162-960-11	CERAMIC CHIP	220PF	10%	IC120	6-807-490-01	IC ML2252-254GAZ03A
		< CONNECTOR >			IC151	8-759-523-03	IC TC74HC4066AFT(EL)
* CN100	1-569-934-11	SOCKET, CONNECTOR 17P			IC152	8-759-523-03	IC TC74HC4066AFT(EL)
CN101	1-569-928-11	SOCKET, CONNECTOR 11P			IC153	6-707-870-01	IC TC74VHC157FT(EKJ)
CN102	1-779-295-11	CONNECTOR, FFC (LIF(NON-ZIF)) 27P			IC200	6-705-667-01	IC M61537FP-RF0G
CN103	1-779-289-11	CONNECTOR, FFC (LIF(NON-ZIF)) 21P			IC201	6-703-651-11	IC M61530FP-D60G
* CN105	1-569-930-11	SOCKET, CONNECTOR 13P			IC202	6-705-809-01	IC BD4929G-TR
CN106	1-564-704-41	PIN, CONNECTOR (SMALL TYPE) 2P			IC325	6-707-095-01	IC BH2210FV-E2
CN253	1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P			IC500	8-759-525-25	IC BU4052BCF-E2
CN300	1-779-287-11	CONNECTOR, FFC (LIF(NON-ZIF)) 19P			IC501	8-759-525-25	IC BU4052BCF-E2
* CN380	1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P			IC550	8-759-394-36	IC BA09T
CN381	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P			IC551	8-759-394-36	IC BA09T
CN382	1-569-927-11	SOCKET, CONNECTOR 9P			IC554	6-710-632-01	IC PQ033RDC1SZF
* CN501	1-564-713-11	PIN, CONNECTOR (SMALL TYPE) 11P			IC555	6-703-546-01	IC TA7804LS
* CN582	1-564-506-11	PLUG, CONNECTOR 3P			IC556	6-700-898-01	IC PQ05RD21J00H

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Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		< JACK >					
J601	1-774-411-11	JACK, PIN 6P (VIDEO IN,AUDIO IN, AUDIO OUT)		JR402	1-216-864-11	SHORT CHIP	0
J603	1-820-048-11	CONNECTOR (LIGHTING) (D-LIGHT SYNC OUT) (EXCEPT AUS)		JR403	1-216-864-11	SHORT CHIP	0
		< JUMPER RESISTOR >		JR404	1-216-864-11	SHORT CHIP	0
JR100	1-216-864-11	SHORT CHIP	0	JR405	1-216-864-11	SHORT CHIP	0
JR103	1-216-864-11	SHORT CHIP	0	JR406	1-216-296-11	SHORT CHIP	0
JR104	1-216-864-11	SHORT CHIP	0	JR407	1-216-864-11	SHORT CHIP	0
JR105	1-216-864-11	SHORT CHIP	0	JR408	1-216-296-11	SHORT CHIP	0
JR106	1-216-864-11	SHORT CHIP	0	JR409	1-216-864-11	SHORT CHIP	0
JR107	1-216-864-11	SHORT CHIP	0	JR420	1-216-864-11	SHORT CHIP	0
JR108	1-216-296-11	SHORT CHIP	0	JR421	1-216-296-11	SHORT CHIP	0
JR109	1-216-296-11	SHORT CHIP	0	JR489	1-216-296-11	SHORT CHIP	0
JR110	1-216-864-11	SHORT CHIP	0	JR500	1-216-864-11	SHORT CHIP	0
JR111	1-216-864-11	SHORT CHIP	0	JR501	1-216-864-11	SHORT CHIP	0
JR112	1-216-864-11	SHORT CHIP	0	JR502	1-216-296-11	SHORT CHIP	0
JR114	1-216-864-11	SHORT CHIP	0	JR503	1-216-296-11	SHORT CHIP	0
JR115	1-216-864-11	SHORT CHIP	0	JR504	1-216-296-11	SHORT CHIP	0
JR117	1-216-296-11	SHORT CHIP	0	JR506	1-216-864-11	SHORT CHIP	0
JR118	1-216-864-11	SHORT CHIP	0	JR507	1-216-864-11	SHORT CHIP	0
JR120	1-216-864-11	SHORT CHIP	0	JR508	1-216-296-11	SHORT CHIP	0
JR124	1-216-864-11	SHORT CHIP	0	JR552	1-216-296-11	SHORT CHIP	0
JR125	1-216-296-11	SHORT CHIP	0	JR601	1-216-864-11	SHORT CHIP	0
JR126	1-216-296-11	SHORT CHIP	0	JR602	1-216-296-11	SHORT CHIP	0
JR128	1-216-864-11	SHORT CHIP	0			< COIL >	
JR155	1-216-864-11	SHORT CHIP	0	L201	1-410-780-11	INDUCTOR	27mH
JR157	1-216-864-11	SHORT CHIP	0	L250	1-414-189-31	INDUCTOR	100uH
JR158	1-216-296-11	SHORT CHIP	0	L251	1-410-780-11	INDUCTOR	27mH
JR159	1-216-864-11	SHORT CHIP	0			< TRANSISTOR >	
JR201	1-216-864-11	SHORT CHIP	0	Q101	8-729-027-56	TRANSISTOR	DTC143TKA-T146 (E2,E13,E51)
JR202	1-216-864-11	SHORT CHIP	0	Q150	8-729-027-43	TRANSISTOR	DTC114EKA-T146
JR203	1-216-864-11	SHORT CHIP	0	Q170	6-551-451-01	TRANSISTOR	2SB1690TL
JR222	1-216-864-11	SHORT CHIP	0	Q171	8-729-230-49	TRANSISTOR	2SC2712-YG
JR223	1-216-864-11	SHORT CHIP	0	Q172	1-801-806-11	TRANSISTOR	DTC144EKA
JR225	1-216-296-11	SHORT CHIP	0	Q201	6-551-287-01	TRANSISTOR	2SD2704K-T146
JR300	1-216-864-11	SHORT CHIP	0	Q202	6-551-287-01	TRANSISTOR	2SD2704K-T146
JR301	1-216-864-11	SHORT CHIP	0	Q203	6-551-287-01	TRANSISTOR	2SD2704K-T146
JR302	1-216-864-11	SHORT CHIP	0	Q204	6-551-287-01	TRANSISTOR	2SD2704K-T146
JR306	1-216-864-11	SHORT CHIP	0	Q205	8-729-027-43	TRANSISTOR	DTC114EKA-T146
JR308	1-216-296-11	SHORT CHIP	0	Q206	8-729-920-79	TRANSISTOR	2SB1132-T100-QR
JR310	1-216-296-11	SHORT CHIP	0	Q207	8-729-027-43	TRANSISTOR	DTC114EKA-T146
JR311	1-216-864-11	SHORT CHIP	0	Q208	8-729-920-79	TRANSISTOR	2SB1132-T100-QR
JR312	1-216-864-11	SHORT CHIP	0	Q242	8-729-141-75	TRANSISTOR	2SD596DV345
JR315	1-216-296-11	SHORT CHIP	0	Q243	6-550-185-01	TRANSISTOR	RT1P137P-TP-1
JR316	1-216-296-11	SHORT CHIP	0	Q244	8-729-027-43	TRANSISTOR	DTC114EKA-T146
JR320	1-216-864-11	SHORT CHIP	0	Q245	8-729-027-23	TRANSISTOR	DTA114EKA-T146
JR321	1-216-864-11	SHORT CHIP	0	Q246	8-729-027-43	TRANSISTOR	DTC114EKA-T146
JR322	1-216-864-11	SHORT CHIP	0	Q247	8-729-027-43	TRANSISTOR	DTC114EKA-T146
JR323	1-216-864-11	SHORT CHIP	0	Q248	8-729-027-43	TRANSISTOR	DTC114EKA-T146
JR324	1-216-864-11	SHORT CHIP	0	Q249	8-729-216-22	TRANSISTOR	2SA1162-G
JR325	1-216-864-11	SHORT CHIP	0	Q251	6-551-287-01	TRANSISTOR	2SD2704K-T146
JR350	1-216-864-11	SHORT CHIP	0	Q252	6-551-287-01	TRANSISTOR	2SD2704K-T146
JR351	1-216-864-11	SHORT CHIP	0	Q253	6-551-287-01	TRANSISTOR	2SD2704K-T146
JR400	1-216-296-11	SHORT CHIP	0	Q254	6-551-287-01	TRANSISTOR	2SD2704K-T146
JR401	1-216-864-11	SHORT CHIP	0	Q255	8-729-027-43	TRANSISTOR	DTC114EKA-T146
				Q256	8-729-920-79	TRANSISTOR	2SB1132-T100-QR
				Q270	8-729-901-00	TRANSISTOR	DTC124EK
				Q300	8-729-023-22	TRANSISTOR	2SD2114K

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
Q301	8-729-230-49	TRANSISTOR 2SC2712-YG		R122	1-216-809-11	METAL CHIP 100 5%	1/10W
Q302	8-729-023-22	TRANSISTOR 2SD2114K		R123	1-216-809-11	METAL CHIP 100 5%	1/10W
Q305	8-729-027-43	TRANSISTOR DTC114EKA-T146		R124	1-216-809-11	METAL CHIP 100 5%	1/10W
Q306	8-729-055-10	FET 2SK3378ENTL		R125	1-216-809-11	METAL CHIP 100 5%	1/10W
Q350	8-729-023-22	TRANSISTOR 2SD2114K		R126	1-216-809-11	METAL CHIP 100 5%	1/10W
Q351	8-729-230-49	TRANSISTOR 2SC2712-YG		R127	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q352	8-729-023-22	TRANSISTOR 2SD2114K		R128	1-216-845-11	METAL CHIP 100K 5%	1/10W
Q373	8-729-055-10	FET 2SK3378ENTL		R129	1-216-809-11	METAL CHIP 100 5%	1/10W
Q400	8-729-230-49	TRANSISTOR 2SC2712-YG		R130	1-216-809-11	METAL CHIP 100 5%	1/10W
Q401	8-729-023-22	TRANSISTOR 2SD2114K		R131	1-216-809-11	METAL CHIP 100 5%	1/10W
Q430	8-729-023-22	TRANSISTOR 2SD2114K		R132	1-216-809-11	METAL CHIP 100 5%	1/10W
Q450	8-729-230-49	TRANSISTOR 2SC2712-YG		R133	1-216-809-11	METAL CHIP 100 5%	1/10W
Q451	8-729-023-22	TRANSISTOR 2SD2114K		R134	1-216-809-11	METAL CHIP 100 5%	1/10W
Q480	8-729-023-22	TRANSISTOR 2SD2114K		R135	1-216-809-11	METAL CHIP 100 5%	1/10W
Q500	8-729-027-43	TRANSISTOR DTC114EKA-T146		R136	1-216-809-11	METAL CHIP 100 5%	1/10W
Q501	8-729-027-43	TRANSISTOR DTC114EKA-T146		R137	1-216-809-11	METAL CHIP 100 5%	1/10W
Q502	8-729-027-43	TRANSISTOR DTC114EKA-T146		R138	1-216-809-11	METAL CHIP 100 5%	1/10W
Q527	8-729-027-31	TRANSISTOR DTA124EKA-T146		R139	1-216-809-11	METAL CHIP 100 5%	1/10W
Q528	8-729-027-31	TRANSISTOR DTA124EKA-T146		R140	1-216-809-11	METAL CHIP 100 5%	1/10W
Q529	8-729-027-31	TRANSISTOR DTA124EKA-T146		R141	1-216-809-11	METAL CHIP 100 5%	1/10W
Q530	8-729-027-31	TRANSISTOR DTA124EKA-T146		R142	1-216-809-11	METAL CHIP 100 5%	1/10W
Q545	8-729-026-68	TRANSISTOR 2SD2525 (TP)		R143	1-216-809-11	METAL CHIP 100 5%	1/10W
Q546	8-729-230-49	TRANSISTOR 2SC2712-YG		R144	1-216-809-11	METAL CHIP 100 5%	1/10W
Q547	8-729-230-49	TRANSISTOR 2SC2712-YG		R145	1-216-809-11	METAL CHIP 100 5%	1/10W
Q551	8-729-056-46	TRANSISTOR 2SC5053T100Q		R146	1-216-809-11	METAL CHIP 100 5%	1/10W
Q557	8-729-027-56	TRANSISTOR DTC143TKA-T146 (E2,E13,E51)		R147	1-216-809-11	METAL CHIP 100 5%	1/10W
Q600	8-729-027-56	TRANSISTOR DTC143TKA-T146		R148	1-216-809-11	METAL CHIP 100 5%	1/10W
Q601	8-729-230-49	TRANSISTOR 2SC2712-YG		R149	1-216-845-11	METAL CHIP 100K 5%	1/10W
Q602	8-729-230-49	TRANSISTOR 2SC2712-YG		R150	1-216-809-11	METAL CHIP 100 5%	1/10W
Q603	8-729-230-49	TRANSISTOR 2SC2712-YG		R151	1-216-809-11	METAL CHIP 100 5%	1/10W
Q604	8-729-026-68	TRANSISTOR 2SD2525 (TP)		R152	1-216-809-11	METAL CHIP 100 5%	1/10W
		< RESISTOR >		R153	1-216-809-11	METAL CHIP 100 5%	1/10W
R100	1-216-809-11	METAL CHIP 100 5%	1/10W	R154	1-216-809-11	METAL CHIP 100 5%	1/10W
R101	1-216-809-11	METAL CHIP 100 5%	1/10W	R155	1-216-845-11	METAL CHIP 100K 5%	1/10W
R102	1-216-809-11	METAL CHIP 100 5%	1/10W	R156	1-216-845-11	METAL CHIP 100K 5%	1/10W
R103	1-216-809-11	METAL CHIP 100 5%	1/10W	R157	1-216-845-11	METAL CHIP 100K 5%	1/10W
R104	1-216-809-11	METAL CHIP 100 5%	1/10W	R158	1-216-809-11	METAL CHIP 100 5%	1/10W
R105	1-216-864-11	SHORT CHIP 0 (US,AUS)		R159	1-216-809-11	METAL CHIP 100 5%	1/10W
R106	1-216-833-11	METAL CHIP 10K 5%	1/10W	R160	1-216-809-11	METAL CHIP 100 5%	1/10W
			(E2,E13,E51)	R161	1-216-809-11	METAL CHIP 100 5%	1/10W
R107	1-216-826-11	METAL CHIP 2.7K 5%	1/10W	R162	1-216-845-11	METAL CHIP 100K 5%	1/10W
			(E2,E13,E51)	R163	1-216-809-11	METAL CHIP 100 5%	1/10W
R108	1-216-833-11	METAL CHIP 10K 5%	1/10W	R164	1-216-845-11	METAL CHIP 100K 5%	1/10W
			(E2,E13,E51)	R165	1-216-809-11	METAL CHIP 100 5%	1/10W
R109	1-216-833-11	METAL CHIP 10K 5%	1/10W	R166	1-216-809-11	METAL CHIP 100 5%	1/10W
R110	1-216-833-11	METAL CHIP 10K 5%	1/10W	R167	1-216-809-11	METAL CHIP 100 5%	1/10W
R111	1-216-851-11	METAL CHIP 330K 5%	1/10W	R168	1-216-809-11	METAL CHIP 100 5%	1/10W
R112	1-216-845-11	METAL CHIP 100K 5%	1/10W	R169	1-216-809-11	METAL CHIP 100 5%	1/10W
R113	1-216-864-11	SHORT CHIP 0		R170	1-216-833-11	METAL CHIP 10K 5%	1/10W
R114	1-216-833-11	METAL CHIP 10K 5%	1/10W	R171	1-216-821-11	METAL CHIP 1K 5%	1/10W
R115	1-216-829-11	METAL CHIP 4.7K 5%	1/10W	R172	1-216-837-11	METAL CHIP 22K 5%	1/10W
R116	1-216-829-11	METAL CHIP 4.7K 5%	1/10W	R173	1-216-809-11	METAL CHIP 100 5%	1/10W
R117	1-216-833-11	METAL CHIP 10K 5%	1/10W	R174	1-216-809-11	METAL CHIP 100 5%	1/10W
R118	1-216-809-11	METAL CHIP 100 5%	1/10W	R175	1-216-833-11	METAL CHIP 10K 5%	1/10W
R119	1-216-809-11	METAL CHIP 100 5%	1/10W	R176	1-216-809-11	METAL CHIP 100 5%	1/10W
R120	1-216-821-11	METAL CHIP 1K 5%	1/10W	R177	1-216-821-11	METAL CHIP 1K 5%	1/10W
R121	1-216-809-11	METAL CHIP 100 5%	1/10W	R178	1-216-809-11	METAL CHIP 100 5%	1/10W
				R179	1-216-845-11	METAL CHIP 100K 5%	1/10W

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Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R180	1-216-833-11	METAL CHIP	10K 5%	R250	1-216-825-11	METAL CHIP	2.2K 5%
R181	1-216-809-11	METAL CHIP	100 5%	R251	1-216-825-11	METAL CHIP	2.2K 5%
R182	1-216-809-11	METAL CHIP	100 5%	R252	1-216-825-11	METAL CHIP	2.2K 5%
R183	1-216-809-11	METAL CHIP	100 5%	R253	1-216-845-11	METAL CHIP	100K 5%
R184	1-216-809-11	METAL CHIP	100 5%	R254	1-216-833-11	METAL CHIP	10K 5%
R185	1-216-809-11	METAL CHIP	100 5%	R255	1-216-839-11	METAL CHIP	33K 5%
R186	1-216-809-11	METAL CHIP	100 5%	R256	1-216-864-11	SHORT CHIP	0
R187	1-216-809-11	METAL CHIP	100 5%	R257	1-216-830-11	METAL CHIP	5.6K 5%
R188	1-216-809-11	METAL CHIP	100 5%	R258	1-216-833-11	METAL CHIP	10K 5%
R189	1-216-809-11	METAL CHIP	100 5%	R259	1-216-845-11	METAL CHIP	100K 5%
R190	1-216-809-11	METAL CHIP	100 5%	R260	1-216-841-11	METAL CHIP	47K 5%
R191	1-216-809-11	METAL CHIP	100 5%	R261	1-216-830-11	METAL CHIP	5.6K 5%
R192	1-216-809-11	METAL CHIP	100 5%	R262	1-216-825-11	METAL CHIP	2.2K 5%
R193	1-216-821-11	METAL CHIP	1K 5%	R263	1-216-825-11	METAL CHIP	2.2K 5%
R193	1-216-825-11	METAL CHIP	2.2K 5%	R264	1-216-819-11	METAL CHIP	680 5%
			(US)	R269	1-216-827-11	METAL CHIP	3.3K 5%
R193	1-216-829-11	METAL CHIP	4.7K 5%	R270	1-216-833-11	METAL CHIP	10K 5%
			(AUS)	R272	1-216-864-11	SHORT CHIP	0
R194	1-216-809-11	METAL CHIP	100 5%	R273	1-216-833-11	METAL CHIP	10K 5%
R195	1-216-809-11	METAL CHIP	100 5%	R274	1-216-833-11	METAL CHIP	10K 5%
R197	1-216-809-11	METAL CHIP	100 5%	R275	1-216-813-11	METAL CHIP	220 5%
R198	1-216-821-11	METAL CHIP	1K 5%	R276	1-216-821-11	METAL CHIP	1K 5%
R200	1-216-825-11	METAL CHIP	2.2K 5%	R277	1-216-829-11	METAL CHIP	4.7K 5%
R201	1-216-825-11	METAL CHIP	2.2K 5%	R278	1-216-841-11	METAL CHIP	47K 5%
R202	1-216-825-11	METAL CHIP	2.2K 5%	R279	1-216-829-11	METAL CHIP	4.7K 5%
R205	1-216-839-11	METAL CHIP	33K 5%	R280	1-216-829-11	METAL CHIP	4.7K 5%
R206	1-216-864-11	SHORT CHIP	0	R284	1-216-833-11	METAL CHIP	10K 5%
R207	1-216-830-11	METAL CHIP	5.6K 5%	R285	1-216-833-11	METAL CHIP	10K 5%
R208	1-216-833-11	METAL CHIP	10K 5%	R286	1-216-833-11	METAL CHIP	10K 5%
R209	1-216-845-11	METAL CHIP	100K 5%	R288	1-216-833-11	METAL CHIP	10K 5%
R210	1-216-841-11	METAL CHIP	47K 5%	R289	1-216-809-11	METAL CHIP	100 5%
R211	1-216-830-11	METAL CHIP	5.6K 5%	R290	1-216-809-11	METAL CHIP	100 5%
R212	1-216-825-11	METAL CHIP	2.2K 5%	R291	1-216-809-11	METAL CHIP	100 5%
R213	1-216-825-11	METAL CHIP	2.2K 5%	R293	1-216-823-11	METAL CHIP	1.5K 5%
R214	1-216-819-11	METAL CHIP	680 5%	R293	1-216-829-11	METAL CHIP	4.7K 5%
R215	1-216-827-11	METAL CHIP	3.3K 5%				(AUS)
R216	1-216-827-11	METAL CHIP	3.3K 5%				(E2,E51)
R217	1-216-819-11	METAL CHIP	680 5%	R293	1-216-864-11	SHORT CHIP	0 (E13)
R218	1-216-827-11	METAL CHIP	3.3K 5%	R295	1-216-809-11	METAL CHIP	100 5%
R219	1-216-827-11	METAL CHIP	3.3K 5%	R299	1-216-829-11	METAL CHIP	4.7K 5%
R220	1-216-841-11	METAL CHIP	47K 5%	R300	1-216-841-11	METAL CHIP	47K 5%
R222	1-216-837-11	METAL CHIP	22K 5%	R301	1-216-857-11	METAL CHIP	1M 5%
R223	1-216-829-11	METAL CHIP	4.7K 5%	R302	1-216-835-11	METAL CHIP	15K 5%
R224	1-216-829-11	METAL CHIP	4.7K 5%	R303	1-216-825-11	METAL CHIP	2.2K 5%
R232	1-216-845-11	METAL CHIP	100K 5%	R304	1-216-825-11	METAL CHIP	2.2K 5%
R237	1-216-833-11	METAL CHIP	10K 5%	R305	1-216-833-11	METAL CHIP	10K 5%
R238	1-216-833-11	METAL CHIP	10K 5%	R306	1-216-833-11	METAL CHIP	10K 5%
R239	1-216-833-11	METAL CHIP	10K 5%	R307	1-216-841-11	METAL CHIP	47K 5%
R240	1-216-827-11	METAL CHIP	3.3K 5%	R308	1-216-817-11	METAL CHIP	470 5%
R241	1-216-805-11	METAL CHIP	47 5%	R311	1-216-833-11	METAL CHIP	10K 5%
R242	1-216-833-11	METAL CHIP	10K 5%	R312	1-216-833-11	METAL CHIP	10K 5%
R243	1-216-797-11	METAL CHIP	10 5%	R313	1-216-833-11	METAL CHIP	10K 5%
R244	1-216-803-11	METAL CHIP	33 5%	R314	1-216-825-11	METAL CHIP	2.2K 5%
R245	1-216-841-11	METAL CHIP	47K 5%	R315	1-216-841-11	METAL CHIP	47K 5%
R246	1-216-829-11	METAL CHIP	4.7K 5%	R316	1-216-821-11	METAL CHIP	1K 5%
R247	1-216-833-11	METAL CHIP	10K 5%	R317	1-216-821-11	METAL CHIP	1K 5%
R248	1-216-833-11	METAL CHIP	10K 5%	R318	1-216-835-11	METAL CHIP	15K 5%
R249	1-216-829-11	METAL CHIP	4.7K 5%	R319	1-216-851-11	METAL CHIP	330K 5%
				R320	1-216-812-11	METAL CHIP	180 5%

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R321	1-469-125-21	FERRITE, EMI (SMD) (1608)		R455	1-216-832-11	METAL CHIP 8.2K	5% 1/10W
R322	1-469-125-21	FERRITE, EMI (SMD) (1608)		R456	1-216-841-11	METAL CHIP 47K	5% 1/10W
R323	1-216-821-11	METAL CHIP 1K	5% 1/10W	R457	1-216-864-11	SHORT CHIP 0	
R324	1-216-833-11	METAL CHIP 10K	5% 1/10W	R458	1-216-864-11	SHORT CHIP 0	
R328	1-216-821-11	METAL CHIP 1K	5% 1/10W	R469	1-216-818-11	METAL CHIP 560	5% 1/10W
R329	1-216-841-11	METAL CHIP 47K	5% 1/10W	R470	1-216-833-11	METAL CHIP 10K	5% 1/10W
R332	1-216-821-11	METAL CHIP 1K	5% 1/10W	R471	1-216-841-11	METAL CHIP 47K	5% 1/10W
R333	1-216-833-11	METAL CHIP 10K	5% 1/10W	R480	1-216-821-11	METAL CHIP 1K	5% 1/10W
R334	1-216-845-11	METAL CHIP 100K	5% 1/10W	R481	1-216-841-11	METAL CHIP 47K	5% 1/10W
R335	1-216-857-11	METAL CHIP 1M	5% 1/10W	R482	1-216-821-11	METAL CHIP 1K	5% 1/10W
R336	1-216-825-11	METAL CHIP 2.2K	5% 1/10W (E2)	R485	1-216-821-11	METAL CHIP 1K	5% 1/10W
R336	1-216-864-11	SHORT CHIP 0 (EXCEPT E2)		R486	1-216-841-11	METAL CHIP 47K	5% 1/10W
R338	1-216-835-11	METAL CHIP 15K	5% 1/10W (E2)	R487	1-216-833-11	METAL CHIP 10K	5% 1/10W
R349	1-216-841-11	METAL CHIP 47K	5% 1/10W	R488	1-216-821-11	METAL CHIP 1K	5% 1/10W
R352	1-216-835-11	METAL CHIP 15K	5% 1/10W	R501	1-218-917-11	METAL CHIP 820K	0.5% 1/10W
R353	1-216-825-11	METAL CHIP 2.2K	5% 1/10W	R502	1-218-917-11	METAL CHIP 820K	0.5% 1/10W
R354	1-216-825-11	METAL CHIP 2.2K	5% 1/10W	R503	1-218-917-11	METAL CHIP 820K	0.5% 1/10W
R355	1-216-833-11	METAL CHIP 10K	5% 1/10W	R504	1-218-917-11	METAL CHIP 820K	0.5% 1/10W
R356	1-216-833-11	METAL CHIP 10K	5% 1/10W	R505	1-218-917-11	METAL CHIP 820K	0.5% 1/10W
R357	1-216-841-11	METAL CHIP 47K	5% 1/10W	R506	1-218-917-11	METAL CHIP 820K	0.5% 1/10W
R358	1-216-817-11	METAL CHIP 470	5% 1/10W	R507	1-216-829-11	METAL CHIP 4.7K	5% 1/10W
R365	1-216-841-11	METAL CHIP 47K	5% 1/10W	R508	1-216-829-11	METAL CHIP 4.7K	5% 1/10W
R366	1-216-821-11	METAL CHIP 1K	5% 1/10W	R509	1-216-833-11	METAL CHIP 10K	5% 1/10W
R367	1-216-821-11	METAL CHIP 1K	5% 1/10W	R510	1-216-833-11	METAL CHIP 10K	5% 1/10W
R368	1-216-835-11	METAL CHIP 15K	5% 1/10W	R511	1-218-917-11	METAL CHIP 820K	0.5% 1/10W
R369	1-216-851-11	METAL CHIP 330K	5% 1/10W	R512	1-218-917-11	METAL CHIP 820K	0.5% 1/10W
R370	1-216-812-11	METAL CHIP 180	5% 1/10W	R513	1-218-917-11	METAL CHIP 820K	0.5% 1/10W
R371	1-469-125-21	FERRITE, EMI (SMD) (1608)		R514	1-218-917-11	METAL CHIP 820K	0.5% 1/10W
R372	1-469-125-21	FERRITE, EMI (SMD) (1608)		R515	1-216-845-11	METAL CHIP 100K	5% 1/10W
R373	1-216-821-11	METAL CHIP 1K	5% 1/10W	R516	1-216-845-11	METAL CHIP 100K	5% 1/10W
R378	1-216-821-11	METAL CHIP 1K	5% 1/10W	R517	1-216-845-11	METAL CHIP 100K	5% 1/10W
R379	1-216-841-11	METAL CHIP 47K	5% 1/10W	R518	1-218-917-11	METAL CHIP 820K	0.5% 1/10W
R382	1-216-821-11	METAL CHIP 1K	5% 1/10W	R519	1-218-917-11	METAL CHIP 820K	0.5% 1/10W
R383	1-216-833-11	METAL CHIP 10K	5% 1/10W	R542	1-216-825-11	METAL CHIP 2.2K	5% 1/10W
R386	1-216-825-11	METAL CHIP 2.2K	5% 1/10W (E2)	R543	1-216-837-11	METAL CHIP 22K	5% 1/10W
R386	1-216-864-11	SHORT CHIP 0 (EXCEPT E2)		R544	1-216-845-11	METAL CHIP 100K	5% 1/10W
R388	1-216-835-11	METAL CHIP 15K	5% 1/10W (E2)	R545	1-216-829-11	METAL CHIP 4.7K	5% 1/10W
R404	1-216-864-11	SHORT CHIP 0		R546	1-216-829-11	METAL CHIP 4.7K	5% 1/10W
R405	1-216-832-11	METAL CHIP 8.2K	5% 1/10W	R547	1-216-845-11	METAL CHIP 100K	5% 1/10W
R406	1-216-841-11	METAL CHIP 47K	5% 1/10W	R548	1-216-821-11	METAL CHIP 1K	5% 1/10W
R407	1-216-864-11	SHORT CHIP 0		R549	1-218-917-11	METAL CHIP 820K	0.5% 1/10W
R408	1-216-864-11	SHORT CHIP 0		R551	1-216-821-11	METAL CHIP 1K	5% 1/10W
R415	1-216-833-11	METAL CHIP 10K	5% 1/10W	R556	1-216-841-11	METAL CHIP 47K	5% 1/10W
R416	1-216-833-11	METAL CHIP 10K	5% 1/10W	R557	1-216-823-11	METAL CHIP 1.5K	5% 1/10W (E2,E13,E51)
R419	1-216-818-11	METAL CHIP 560	5% 1/10W	R558	1-216-825-11	METAL CHIP 2.2K	5% 1/10W
R420	1-216-833-11	METAL CHIP 10K	5% 1/10W	R559	1-216-837-11	METAL CHIP 22K	5% 1/10W
R421	1-216-841-11	METAL CHIP 47K	5% 1/10W	R560	1-216-845-11	METAL CHIP 100K	5% 1/10W
R430	1-216-821-11	METAL CHIP 1K	5% 1/10W	R561	1-216-825-11	METAL CHIP 2.2K	5% 1/10W
R431	1-216-841-11	METAL CHIP 47K	5% 1/10W	R562	1-216-837-11	METAL CHIP 22K	5% 1/10W
R432	1-216-821-11	METAL CHIP 1K	5% 1/10W	R563	1-216-845-11	METAL CHIP 100K	5% 1/10W
R435	1-216-821-11	METAL CHIP 1K	5% 1/10W	R564	1-216-825-11	METAL CHIP 2.2K	5% 1/10W
R436	1-216-841-11	METAL CHIP 47K	5% 1/10W	R565	1-216-837-11	METAL CHIP 22K	5% 1/10W
R437	1-216-833-11	METAL CHIP 10K	5% 1/10W	R566	1-216-845-11	METAL CHIP 100K	5% 1/10W
R438	1-216-821-11	METAL CHIP 1K	5% 1/10W	R567	1-218-917-11	METAL CHIP 820K	0.5% 1/10W
R454	1-216-864-11	SHORT CHIP 0		R568	1-218-917-11	METAL CHIP 820K	0.5% 1/10W
				R569	1-218-917-11	METAL CHIP 820K	0.5% 1/10W

HCD-ZUX9

MAIN **MIC** **MOTOR (LD)** **MOTOR (TB)** **POWER AMP**

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R600	1-216-821-11	METAL CHIP	1K 5%			< DIODE >	
R602	1-216-833-11	METAL CHIP	10K 5%				
R603	1-216-827-11	METAL CHIP	3.3K 5%				
R605	1-216-827-11	METAL CHIP	3.3K 5%				
R606	1-216-821-11	METAL CHIP	1K 5%			< IC >	
R608	1-216-833-11	METAL CHIP	10K 5%				
R609	1-216-833-11	METAL CHIP	10K 5%				
R612	1-216-839-11	METAL CHIP	33K 5%			< JACK >	
R613	1-216-845-11	METAL CHIP	100K 5%				
R620	1-216-826-11	METAL CHIP	2.7K 5%			< JUMPER RESISTOR >	
R621	1-216-827-11	METAL CHIP	3.3K 5%				
R622	1-216-826-11	METAL CHIP	2.7K 5%				
R623	1-216-827-11	METAL CHIP	3.3K 5%				
R624	1-216-821-11	METAL CHIP	1K 5%				
R625	1-216-845-11	METAL CHIP	100K 5%			< RESISTOR >	
R626	1-216-836-11	METAL CHIP	18K 5%				
R670	1-216-826-11	METAL CHIP	2.7K 5%				
R671	1-216-827-11	METAL CHIP	3.3K 5%				
R672	1-216-826-11	METAL CHIP	2.7K 5%				
R673	1-216-827-11	METAL CHIP	3.3K 5%				
R674	1-216-821-11	METAL CHIP	1K 5%				
R675	1-216-845-11	METAL CHIP	100K 5%				
						< TRANSFORMER >	
T250	1-433-372-11	TRANSFORMER, BIAS OSCILLATION					
						< VIBRATOR >	
X101	1-760-252-12	VIBRATOR, CRYSTAL (32.768kHz)					
X102	1-795-058-21	VIBRATOR, CERAMIC (5MHZ)					
X120	1-781-282-51	VIBRATOR, CERAMIC (4MHZ)					

		MIC BOARD					
		< CAPACITOR >					
C995	1-164-156-11	CERAMIC CHIP	0.1uF 25V				
C996	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C998	1-124-257-00	ELECT	2.2uF 20% 50V				
C1001	1-162-971-11	CERAMIC CHIP	0.001uF 10% 50V				
C1002	1-124-589-11	ELECT	47uF 20% 16V				
C1003	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V				
C1004	1-162-923-11	CERAMIC CHIP	47PF 5% 50V				
C1005	1-162-923-11	CERAMIC CHIP	47PF 5% 50V				
C1007	1-119-772-11	ELECT	47uF 20% 35V				
C1008	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V				
C1009	1-100-152-11	CERAMIC CHIP	100PF 5% 100V				
C1010	1-124-589-11	ELECT	47uF 20% 16V				
C1011	1-164-392-11	CERAMIC CHIP	390PF 5% 50V				
C1012	1-124-463-00	ELECT	0.1uF 20% 50V				
C1013	1-124-463-00	ELECT	0.1uF 20% 50V				
C1048	1-124-257-00	ELECT	2.2uF 20% 50V				
						< CONNECTOR >	
CN904	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P					
						< DIODE >	
D922	6-501-579-01	DIODE MC2837					
						< IC >	
IC905	8-759-710-97	IC NJM4565M-D					
						< JACK >	
J902	1-817-629-11	JACK (LARGE TYPE) (MIC)					
						< JUMPER RESISTOR >	
JR1001	1-216-864-11	SHORT CHIP	0				
JR1003	1-216-864-11	SHORT CHIP	0				
JR1004	1-216-864-11	SHORT CHIP	0				
						< RESISTOR >	
R1013	1-216-864-11	SHORT CHIP	0				
R1015	1-216-851-11	METAL CHIP	330K 5% 1/10W				
R1016	1-216-809-11	METAL CHIP	100 5% 1/10W				
R1018	1-216-833-11	METAL CHIP	10K 5% 1/10W				
R1019	1-216-821-11	METAL CHIP	1K 5% 1/10W				
R1020	1-216-845-11	METAL CHIP	100K 5% 1/10W				
R1021	1-216-841-11	METAL CHIP	47K 5% 1/10W				
R1022	1-216-827-11	METAL CHIP	3.3K 5% 1/10W				
R1023	1-216-841-11	METAL CHIP	47K 5% 1/10W				
R1024	1-216-841-11	METAL CHIP	47K 5% 1/10W				
R1025	1-216-809-11	METAL CHIP	100 5% 1/10W				
R1036	1-216-833-11	METAL CHIP	10K 5% 1/10W				
						< VARIABLE RESISTOR >	
RV900	1-227-452-11	RES, VAR, CARBON 50K (MIC LEVEL)					

		1-687-133-12	MOTOR (LD) BOARD				

		1-687-134-12	MOTOR (TB) BOARD				

		< CONNECTOR >					
CN742	1-784-727-11	CONNECTOR, FFC 5P					

		A-1257-585-A	POWER AMP BOARD, COMPLETE				

		7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3				
			< CAPACITOR >				
C550	1-126-933-11	ELECT	100uF 20% 16V				
C551	1-100-566-11	CERAMIC CHIP	0.1uF 10% 25V				
C552	1-126-961-11	ELECT	2.2uF 20% 50V				
C553	1-104-666-11	ELECT	220uF 20% 25V				
C600	1-126-163-11	ELECT	4.7uF 20% 50V				
C601	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V				
C602	1-104-658-11	ELECT	100uF 20% 10V				
C603	1-162-915-11	CERAMIC CHIP	10PF 0.5PF 50V				
C604	1-162-960-11	CERAMIC CHIP	220PF 10% 50V				

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C605	1-164-156-11	CERAMIC CHIP	0.1uF		25V			< DIODE >			
C606	1-164-156-11	CERAMIC CHIP	0.1uF		25V						
C608	1-126-965-11	ELECT	22uF	20%	50V	D550	8-719-404-50	DIODE	MA111-TX		
C609	1-128-582-11	ELECT	10uF	20%	100V	D609	8-719-404-50	DIODE	MA111-TX		
C610	1-128-582-11	ELECT	10uF	20%	100V	D611	6-501-180-01	DIODE	UDZW-TE17-18B		
						D612	6-501-180-01	DIODE	UDZW-TE17-18B		
C616	1-136-497-81	FILM	0.1uF	5%	50V	D620	6-500-334-01	DIODE	MC2836-T112-1		
C617	1-136-497-81	FILM	0.1uF	5%	50V						
C618	1-128-560-11	ELECT	22uF	20%	100V	D624	8-719-404-50	DIODE	MA111-TX		
C619	1-128-560-11	ELECT	22uF	20%	100V	D646	8-719-404-50	DIODE	MA111-TX		
C634	1-104-665-11	ELECT	100uF	20%	25V	D654	6-500-335-01	DIODE	MC2838-T112-1		
						D656	8-719-073-32	DIODE	D25XB60		
C635	1-104-665-11	ELECT	100uF	20%	25V	D658	8-719-073-32	DIODE	D25XB60		
C636	1-107-721-11	ELECT	4.7uF	20%	100V						
C637	1-107-721-11	ELECT	4.7uF	20%	100V	D660	6-500-335-01	DIODE	MC2838-T112-1		
C648	1-104-658-11	ELECT	100uF	20%	10V	D711	6-501-180-01	DIODE	UDZW-TE17-18B		
C649	1-126-964-11	ELECT	10uF	20%	50V	D712	6-501-180-01	DIODE	UDZW-TE17-18B		
						D720	6-500-334-01	DIODE	MC2836-T112-1		
C650	1-126-163-11	ELECT	4.7uF	20%	50V	D754	6-500-335-01	DIODE	MC2838-T112-1		
C651	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V						
C652	1-104-658-11	ELECT	100uF	20%	10V	D762	8-719-404-50	DIODE	MA111-TX		
C653	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V						
C654	1-162-960-11	CERAMIC CHIP	220PF	10%	50V			< IC >			
						IC550	6-703-610-01	IC	RT8H015C-T112-1		
C655	1-126-964-11	ELECT	10uF	20%	50V	IC600	6-600-642-01	IC	STK412-150C		
C656	1-127-815-11	ELECT(BLOCK)	3300uF	20%	100V	IC700	6-600-642-01	IC	STK412-150C		
C658	1-112-035-11	ELECT(BLOCK)	4700uF	20%	50V						
C660	1-164-156-11	CERAMIC CHIP	0.1uF		25V			< JUMPER RESISTOR >			
C666	1-136-497-81	FILM	0.1uF	5%	50V						
						JR612	1-216-864-11	SHORT CHIP	0		
C667	1-136-497-81	FILM	0.1uF	5%	50V						
C676	1-127-815-11	ELECT(BLOCK)	3300uF	20%	100V			< TRANSISTOR >			
C678	1-112-035-11	ELECT(BLOCK)	4700uF	20%	50V						
C683	1-164-156-11	CERAMIC CHIP	0.1uF		25V	Q604	8-729-924-99	TRANSISTOR	2SC3722K-E		
C693	1-164-156-11	CERAMIC CHIP	0.1uF		25V	Q606	8-729-821-00	TRANSISTOR	2SA1207		
						Q610	8-729-924-99	TRANSISTOR	2SC3722K-E		
C700	1-126-163-11	ELECT	4.7uF	20%	50V	Q618	8-729-924-99	TRANSISTOR	2SC3722K-E		
C701	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	Q628	8-729-230-49	TRANSISTOR	2SC2712-YG		
C702	1-104-658-11	ELECT	100uF	20%	10V						
C703	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	Q630	8-729-230-49	TRANSISTOR	2SC2712-YG		
C704	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	Q634	8-729-027-31	TRANSISTOR	DTA124EKA-T146		
						Q640	8-729-023-22	TRANSISTOR	2SD2114K		
C706	1-164-156-11	CERAMIC CHIP	0.1uF		25V	Q641	8-729-023-22	TRANSISTOR	2SD2114K		
C707	1-164-156-11	CERAMIC CHIP	0.1uF		25V	Q644	8-729-230-49	TRANSISTOR	2SC2712-YG		
C709	1-128-582-11	ELECT	10uF	20%	100V						
C710	1-128-582-11	ELECT	10uF	20%	100V	Q647	8-729-023-22	TRANSISTOR	2SD2114K		
C716	1-136-497-81	FILM	0.1uF	5%	50V	Q648	8-729-230-49	TRANSISTOR	2SC2712-YG		
						Q668	8-729-924-99	TRANSISTOR	2SC3722K-E		
C717	1-136-497-81	FILM	0.1uF	5%	50V	Q681	8-729-230-49	TRANSISTOR	2SC2712-YG		
C718	1-128-560-11	ELECT	22uF	20%	100V	Q682	8-729-230-49	TRANSISTOR	2SC2712-YG		
C719	1-128-560-11	ELECT	22uF	20%	100V						
C750	1-126-163-11	ELECT	4.7uF	20%	50V	Q718	8-729-924-99	TRANSISTOR	2SC3722K-E		
C751	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	Q763	8-729-230-49	TRANSISTOR	2SC2712-YG		
						Q768	8-729-924-99	TRANSISTOR	2SC3722K-E		
C752	1-104-658-11	ELECT	100uF	20%	10V						
C753	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V			< RESISTOR >			
C754	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	R600	1-216-821-11	METAL CHIP	1K	5%	1/10W
C766	1-136-497-81	FILM	0.1uF	5%	50V	R601	1-216-841-11	METAL CHIP	47K	5%	1/10W
C767	1-136-497-81	FILM	0.1uF	5%	50V	R602	1-218-482-11	METAL CHIP	430	5%	1/10W
						R603	1-216-841-11	METAL CHIP	47K	5%	1/10W
C783	1-164-156-11	CERAMIC CHIP	0.1uF		25V	R604	1-216-833-11	METAL CHIP	10K	5%	1/10W
C793	1-164-156-11	CERAMIC CHIP	0.1uF		25V						
		< CONNECTOR >				R605	1-216-833-11	METAL CHIP	10K	5%	1/10W
* CN600	1-564-243-11	PIN, CONNECTOR (3.96mm PITCH) 6P				R606	1-216-841-11	METAL CHIP	47K	5%	1/10W
CN602	1-506-469-11	PIN, CONNECTOR 4P				R607	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
* CN702	1-564-508-11	PLUG, CONNECTOR 5P				R608	1-216-845-11	METAL CHIP	100K	5%	1/10W
						R609	1-216-843-11	METAL CHIP	68K	5%	1/10W

HCD-ZUX9

POWER AMP

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R610	1-216-843-11	METAL CHIP	68K 5%	1/10W	R674	1-216-837-11	METAL CHIP 22K 5% 1/10W
R611	1-216-839-11	METAL CHIP	33K 5%	1/10W	R676	1-216-849-11	METAL CHIP 220K 5% 1/10W
△R612	1-245-605-51	FUSIBLE	100 5%	1/4W F	R677	1-216-849-11	METAL CHIP 220K 5% 1/10W
△R613	1-215-872-11	METAL OXIDE	3.3K 5%	1W F	R678	1-216-845-11	METAL CHIP 100K 5% 1/10W
△R614	1-215-872-11	METAL OXIDE	3.3K 5%	1W F	R682	1-216-821-11	METAL CHIP 1K 5% 1/10W
△R615	1-245-605-51	FUSIBLE	100 5%	1/4W F	R683	1-216-829-11	METAL CHIP 4.7K 5% 1/10W
△R616	1-217-637-00	FUSIBLE	1 5%	1/4W F	R685	1-216-833-11	METAL CHIP 10K 5% 1/10W
R617	1-216-845-11	METAL CHIP	100K 5%	1/10W	R692	1-216-841-11	METAL CHIP 47K 5% 1/10W
△R618	1-234-798-11	ENCAPSULATED COMPONENT	0.22X2 5W		R693	1-216-845-11	METAL CHIP 100K 5% 1/10W
R619	1-216-821-11	METAL CHIP	1K 5%	1/10W	R694	1-216-843-11	METAL CHIP 68K 5% 1/10W
R620	1-216-839-11	METAL CHIP	33K 5%	1/10W	R695	1-216-845-11	METAL CHIP 100K 5% 1/10W
R621	1-216-845-11	METAL CHIP	100K 5%	1/10W	R696	1-216-845-11	METAL CHIP 100K 5% 1/10W
R622	1-245-711-31	CARBON	10 5%	1/2W F	R697	1-216-825-11	METAL CHIP 2.2K 5% 1/10W
R623	1-216-845-11	METAL CHIP	100K 5%	1/10W	R698	1-216-845-11	METAL CHIP 100K 5% 1/10W
R624	1-216-837-11	METAL CHIP	22K 5%	1/10W	R700	1-216-821-11	METAL CHIP 1K 5% 1/10W
R625	1-216-828-11	METAL CHIP	3.9K 5%	1/10W	R701	1-216-841-11	METAL CHIP 47K 5% 1/10W
R628	1-216-837-11	METAL CHIP	22K 5%	1/10W	R702	1-218-816-11	METAL CHIP 390 5% 1/10W
R629	1-216-828-11	METAL CHIP	3.9K 5%	1/10W	R703	1-216-841-11	METAL CHIP 47K 5% 1/10W
R630	1-216-845-11	METAL CHIP	100K 5%	1/10W	△R712	1-245-605-51	FUSIBLE 100 5% 1/4W F
R631	1-216-845-11	METAL CHIP	100K 5%	1/10W	△R713	1-215-872-11	METAL OXIDE 3.3K 5% 1W F
R633	1-216-864-11	SHORT CHIP	0		△R714	1-215-872-11	METAL OXIDE 3.3K 5% 1W F
R634	1-216-825-11	METAL CHIP	2.2K 5%	1/10W	△R715	1-245-605-51	FUSIBLE 100 5% 1/4W F
R635	1-216-833-11	METAL CHIP	10K 5%	1/10W	△R716	1-217-637-00	FUSIBLE 1 5% 1/4W F
△R636	1-215-891-11	METAL OXIDE	680 5%	2W F	R717	1-216-845-11	METAL CHIP 100K 5% 1/10W
△R637	1-215-891-11	METAL OXIDE	680 5%	2W F	△R718	1-234-798-11	ENCAPSULATED COMPONENT 0.22X2 5W
R638	1-216-845-11	METAL CHIP	100K 5%	1/10W	R719	1-216-821-11	METAL CHIP 1K 5% 1/10W
R639	1-216-845-11	METAL CHIP	100K 5%	1/10W	R721	1-216-845-11	METAL CHIP 100K 5% 1/10W
R640	1-216-821-11	METAL CHIP	1K 5%	1/10W	R722	1-245-711-31	CARBON 10 5% 1/2W F
R641	1-216-821-11	METAL CHIP	1K 5%	1/10W	R732	1-216-839-11	METAL CHIP 33K 5% 1/10W
R642	1-216-811-11	METAL CHIP	150 5%	1/10W	R734	1-216-844-11	METAL CHIP 82K 5% 1/10W
R643	1-216-811-11	METAL CHIP	150 5%	1/10W	R750	1-216-821-11	METAL CHIP 1K 5% 1/10W
R644	1-216-825-11	METAL CHIP	2.2K 5%	1/10W	R751	1-216-841-11	METAL CHIP 47K 5% 1/10W
R645	1-216-833-11	METAL CHIP	10K 5%	1/10W	R752	1-218-816-11	METAL CHIP 390 5% 1/10W
R646	1-260-087-11	CARBON	100 5%	1/2W F	R753	1-216-841-11	METAL CHIP 47K 5% 1/10W
R647	1-216-821-11	METAL CHIP	1K 5%	1/10W	R763	1-216-837-11	METAL CHIP 22K 5% 1/10W
R648	1-216-837-11	METAL CHIP	22K 5%	1/10W	R764	1-260-087-11	CARBON 100 5% 1/2W F
R649	1-216-837-11	METAL CHIP	22K 5%	1/10W	R765	1-216-825-11	METAL CHIP 2.2K 5% 1/10W
R650	1-216-821-11	METAL CHIP	1K 5%	1/10W	△R768	1-234-798-11	ENCAPSULATED COMPONENT 0.22X2 5W
R651	1-216-841-11	METAL CHIP	47K 5%	1/10W	R769	1-216-821-11	METAL CHIP 1K 5% 1/10W
R652	1-218-482-11	METAL CHIP	430 5%	1/10W	R771	1-216-845-11	METAL CHIP 100K 5% 1/10W
R653	1-216-841-11	METAL CHIP	47K 5%	1/10W	R772	1-245-711-31	CARBON 10 5% 1/2W F
R654	1-216-841-11	METAL CHIP	47K 5%	1/10W	R778	1-216-841-11	METAL CHIP 47K 5% 1/10W
R655	1-216-841-11	METAL CHIP	47K 5%	1/10W	R779	1-216-841-11	METAL CHIP 47K 5% 1/10W
R656	1-216-849-11	METAL CHIP	220K 5%	1/10W	R782	1-216-839-11	METAL CHIP 33K 5% 1/10W
R657	1-216-849-11	METAL CHIP	220K 5%	1/10W	R784	1-216-845-11	METAL CHIP 100K 5% 1/10W
R658	1-216-845-11	METAL CHIP	100K 5%	1/10W	R795	1-216-845-11	METAL CHIP 100K 5% 1/10W
R660	1-216-829-11	METAL CHIP	4.7K 5%	1/10W	R796	1-216-845-11	METAL CHIP 100K 5% 1/10W
R661	1-216-829-11	METAL CHIP	4.7K 5%	1/10W			< RELAY >
R662	1-216-811-11	METAL CHIP	150 5%	1/10W			
R663	1-216-811-11	METAL CHIP	150 5%	1/10W			
R666	1-216-821-11	METAL CHIP	1K 5%	1/10W	RY646	1-755-500-11	RELAY
R667	1-216-833-11	METAL CHIP	10K 5%	1/10W	RY760	1-755-500-11	RELAY
△R668	1-234-798-11	ENCAPSULATED COMPONENT	0.22X2 5W				< THERMISTOR >
R669	1-216-821-11	METAL CHIP	1K 5%	1/10W			
R670	1-216-839-11	METAL CHIP	33K 5%	1/10W	TH629	1-807-796-11	THERMISTOR
R671	1-216-845-11	METAL CHIP	100K 5%	1/10W	TH630	1-807-796-11	THERMISTOR
R672	1-245-711-31	CARBON	10 5%	1/2W F			
R673	1-216-844-11	METAL CHIP	82K 5%	1/10W			

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		< TERMINAL BOARD >				< TRANSISTOR >	
TM601	1-820-067-11	TERMINAL BOARD (SPEAKER) (FRONT SPEAKER)		Q1200	8-729-230-49	TRANSISTOR 2SC2712-YG	
TM701	1-820-067-11	TERMINAL BOARD (SPEAKER) (SURROUND SPEAKER)				< RESISTOR >	
*****				R1200	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
		POWER LED BOARD *****		R1201	1-216-845-11	METAL CHIP 100K 5%	1/10W
		< DIODE >				< RELAY >	
D900	8-719-404-50	DIODE MA111-TX		△RY1200	1-755-439-11	RELAY	
D901	6-501-228-01	LED SELU5420E-STP15 (I/⊕)				< SWITCH >	
D902	8-719-058-04	LED SEL5223S-TP15 (I/⊕)		△S1200	1-771-291-31	SWITCH, POWER (VOLTAGE SELECTOR) (E2,E13,E51)	
		< TRANSISTOR >		*****			
Q900	8-729-027-29	TRANSISTOR DTA123JKA-T146				RIGHT KEY BOARD *****	
Q901	8-729-027-50	TRANSISTOR DTC123JKA-T146				< CAPACITOR >	
		< RESISTOR >		C915	1-164-156-11	CERAMIC CHIP 0.1uF	25V
R900	1-216-817-11	METAL CHIP 470 5%	1/10W	C916	1-164-156-11	CERAMIC CHIP 0.1uF	25V
R901	1-216-819-11	METAL CHIP 680 5%	1/10W	C917	1-162-960-11	CERAMIC CHIP 220PF 10%	50V
R902	1-216-821-11	METAL CHIP 1K 5%	1/10W	C918	1-162-960-11	CERAMIC CHIP 220PF 10%	50V
R903	1-216-823-11	METAL CHIP 1.5K 5%	1/10W			< DIODE >	
R906	1-216-805-11	METAL CHIP 47 5%	1/10W	D907	6-500-727-01	LED SLR-343DCT32 (CHORUS)	
R908	1-216-808-11	METAL CHIP 82 5%	1/10W	D909	6-500-727-01	LED SLR-343DCT32 (AQUA)	
		< SWITCH >		D915	6-501-579-01	DIODE MC2837	
S900	1-771-410-21	SWITCH, TACTILE (TUNER/BAND)				< TRANSISTOR >	
S901	1-771-410-21	SWITCH, TACTILE (CD)		Q903	8-729-027-50	TRANSISTOR DTC123JKA-T146	
S902	1-771-410-21	SWITCH, TACTILE (TAPE A/B)				< RESISTOR >	
S903	1-771-410-21	SWITCH, TACTILE (BEAM MODE)		R909	1-216-823-11	METAL CHIP 1.5K 5%	1/10W
S904	1-771-410-21	SWITCH, TACTILE (I/⊕)		R910	1-216-823-11	METAL CHIP 1.5K 5%	1/10W
*****				R911	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
		PRIMARY BOARD *****		R912	1-216-827-11	METAL CHIP 3.3K 5%	1/10W
		< CAPACITOR >		R913	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
C1201	1-164-156-11	CERAMIC CHIP 0.1uF	25V	R914	1-218-867-11	METAL CHIP 6.8K 0.5%	1/10W
C1202	1-164-156-11	CERAMIC CHIP 0.1uF	25V	R915	1-216-833-11	METAL CHIP 10K 5%	1/10W
C1204	1-164-156-11	CERAMIC CHIP 0.1uF	25V	R916	1-216-835-11	METAL CHIP 15K 5%	1/10W
C1206	1-126-916-11	ELECT 1000uF 20%	6.3V	R917	1-216-837-11	METAL CHIP 22K 5%	1/10W
		< CONNECTOR >		R975	1-216-821-11	METAL CHIP 1K 5%	1/10W
CN1200	1-785-315-11	PIN, CONNECTOR (STRAIGHT) 3P		R976	1-216-821-11	METAL CHIP 1K 5%	1/10W
CN1202	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P		R977	1-216-821-11	METAL CHIP 1K 5%	1/10W
		< DIODE >		R978	1-216-821-11	METAL CHIP 1K 5%	1/10W
D1200	8-719-404-50	DIODE MA111-TX				< SWITCH >	
		< JUMPER RESISTOR >		S909	1-771-410-21	SWITCH, TACTILE (TECHNO)	
JR1202	1-216-864-11	SHORT CHIP 0		S910	1-771-410-21	SWITCH, TACTILE (HIP HOP)	
		< COIL >		S911	1-771-410-21	SWITCH, TACTILE (REGGAE)	
L1201	1-410-666-31	INDUCTOR 18uH		S912	1-771-410-21	SWITCH, TACTILE (SAMBA)	
				S913	1-771-410-21	SWITCH, TACTILE (FLAT)	
				S914	1-771-410-21	SWITCH, TACTILE (SPEAKERS)	
				S915	1-771-410-21	SWITCH, TACTILE (GROOVE)	
				S916	1-771-410-21	SWITCH, TACTILE (CHORUS)	
				S917	1-771-410-21	SWITCH, TACTILE (AQUA)	
*****				*****			

HCD-ZUX9

Ver. 1.1

SENSOR **SW** **TRANS** **USB**

Ref. No.	Part No.	Description	Remark
	1-687-132-12	SENSOR BOARD *****	
		< CONNECTOR >	
CN731	1-785-329-21	PIN, CONNECTOR (LIGHT ANGLE) 3P	
		< IC >	
IC731	6-600-564-01	IC RPI-579N1	

	1-687-669-12	SW BOARD *****	
		< SWITCH >	
S751	1-786-514-11	SWITCH, LEVER (SLIDE) (OPEN/CLOSE DETECT)	

	A-1257-724-A	TRANS BOARD, COMPLETE (EXCEPT US)	
	A-1392-675-A	TRANS BOARD, COMPLETE (US) *****	
	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	1-128-563-11	ELECT 100uF 20% 100V	
		< CONNECTOR >	
* CN1213	1-564-523-11	PLUG, CONNECTOR 8P	
		< DIODE >	
D1264	6-501-181-01	DIODE UDWZ-TE17-20B	
D1265	6-501-182-01	DIODE UDWZ-TE17-22B	
D1292	6-500-522-21	DIODE 10EDB40-TB3	
		< TRANSISTOR >	
Q1264	8-729-024-93	TRANSISTOR 2SB1565E	
		< RESISTOR >	
△ R1233	1-219-237-11	SOLID 3.3M 20% 1/2W (US)	
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 F	

	A-1336-196-A	USB BOARD, COMPLETE *****	
		< CAPACITOR >	
C901	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C902	1-124-779-00	ELECT CHIP 10uF 20% 16V	
C903	1-124-779-00	ELECT CHIP 10uF 20% 16V	
C904	1-124-779-00	ELECT CHIP 10uF 20% 16V	
C905	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C906	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C907	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C908	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	

Ref. No.	Part No.	Description	Remark
C909	1-162-919-11	CERAMIC CHIP 22PF 5% 50V	
C910	1-162-919-11	CERAMIC CHIP 22PF 5% 50V	
C912	1-162-915-11	CERAMIC CHIP 10PF 0.5PF 50V	
C913	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C914	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C915	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C916	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C917	1-100-354-21	ELECT CHIP 220uF 20% 6.3V	
C919	1-164-360-11	CERAMIC CHIP 0.1uF 16V	
C920	1-164-360-11	CERAMIC CHIP 0.1uF 16V	
C921	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C922	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C930	1-216-864-11	SHORT CHIP 0	
		< CONNECTOR >	
CN901	1-770-160-21	PIN, CONNECTOR (PC BOARD) 2P	
CN903	1-779-993-11	PIN, CONNECTOR (PWB) 5P	
CN904	1-784-859-51	CONNECTOR, FFC (LIF(NON-ZIF)) 7P	
CN907	1-784-833-51	CONNECTOR, FFC (LIF(NON-ZIF)) 21P	
		< DIODE >	
D901	6-501-579-01	DIODE MC2837	
D902	6-501-579-01	DIODE MC2837	
D903	6-501-170-01	DIODE UDWZ-TE17-6.8B	
D904	6-501-170-01	DIODE UDWZ-TE17-6.8B	
		< EARTH TERMINAL >	
EP902	1-537-771-21	TERMINAL BOARD, GROUND	
		< FERRITE BEAD >	
FB901	1-469-152-11	FERRITE, EMI (SMD) (2012)	
FB902	1-469-152-11	FERRITE, EMI (SMD) (2012)	
		< IC >	
IC901	6-807-284-01	IC TMP92CD28AFG-2CB4	
IC915	6-710-887-01	IC R5523N001B-TR-F	
IC921	6-704-832-01	IC IS61LV6416-10TLT	
		< JUMPER RESISTOR >	
JR902	1-216-295-11	SHORT CHIP 0	
		< RESISTOR >	
R901	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R902	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R903	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R904	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R905	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R906	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R907	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R913	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R915	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R916	1-216-864-11	SHORT CHIP 0	
R917	1-216-864-11	SHORT CHIP 0	
R919	1-216-809-11	METAL CHIP 100 5% 1/10W	
R920	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R921	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R922	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R923	1-216-802-11	METAL CHIP 27 5% 1/10W	

Ref. No.	Part No.	Description	Remark
R924	1-216-802-11	METAL CHIP 27 5%	1/10W
R925	1-216-835-11	METAL CHIP 15K 5%	1/10W
R926	1-216-835-11	METAL CHIP 15K 5%	1/10W
R928	1-216-864-11	SHORT CHIP 0	
R932	1-216-809-11	METAL CHIP 100 5%	1/10W
R933	1-216-864-11	SHORT CHIP 0	
R934	1-216-833-11	METAL CHIP 10K 5%	1/10W
R937	1-216-809-11	METAL CHIP 100 5%	1/10W
R938	1-216-809-11	METAL CHIP 100 5%	1/10W
R941	1-216-845-11	METAL CHIP 100K 5%	1/10W
R942	1-216-845-11	METAL CHIP 100K 5%	1/10W
R943	1-216-845-11	METAL CHIP 100K 5%	1/10W
R944	1-216-845-11	METAL CHIP 100K 5%	1/10W
R945	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R947	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R950	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R970	1-216-809-11	METAL CHIP 100 5%	1/10W
R971	1-216-809-11	METAL CHIP 100 5%	1/10W
R972	1-216-809-11	METAL CHIP 100 5%	1/10W
R973	1-216-809-11	METAL CHIP 100 5%	1/10W
R974	1-216-809-11	METAL CHIP 100 5%	1/10W
R975	1-216-809-11	METAL CHIP 100 5%	1/10W
R976	1-216-809-11	METAL CHIP 100 5%	1/10W
R977	1-216-809-11	METAL CHIP 100 5%	1/10W
R978	1-216-809-11	METAL CHIP 100 5%	1/10W
R979	1-216-809-11	METAL CHIP 100 5%	1/10W
R981	1-216-809-11	METAL CHIP 100 5%	1/10W
R982	1-216-809-11	METAL CHIP 100 5%	1/10W
R983	1-216-809-11	METAL CHIP 100 5%	1/10W
R984	1-216-809-11	METAL CHIP 100 5%	1/10W
R985	1-216-809-11	METAL CHIP 100 5%	1/10W
R986	1-216-809-11	METAL CHIP 100 5%	1/10W
< NETWORK RESISTOR >			
RB921	1-234-944-21	RES, NETWORK 47X4 (1005)	
RB922	1-234-944-21	RES, NETWORK 47X4 (1005)	
RB923	1-234-944-21	RES, NETWORK 47X4 (1005)	
RB924	1-234-944-21	RES, NETWORK 47X4 (1005)	
< VIBRATOR >			
X901	1-813-931-21	VIBRATOR, CRYSTAL (8MHz)	

USB CONNECTOR BOARD *****			
< CAPACITOR >			
C967	1-126-176-11	ELECT 220uF 20%	10V
C968	1-165-989-11	CERAMIC CHIP 10uF 10%	6.3V
C969	1-164-360-11	CERAMIC CHIP 0.1uF	16V
< CONNECTOR >			
CN952	1-793-365-21	CONNECTOR, USB (A) (↔)	
CN953	1-564-721-11	PIN, CONNECTOR (SMALL TYPE) 5P	
< DIODE >			
D951	6-501-579-01	DIODE MC2837	
D952	6-501-579-01	DIODE MC2837	

Ref. No.	Part No.	Description	Remark
D953	6-501-170-01	DIODE UDZW-TE17-6.8B	
D954	6-501-170-01	DIODE UDZW-TE17-6.8B	
D955	6-501-444-01	LED SELU2610C-STP6 (REC/ERASE)	
D956	6-501-170-01	DIODE UDZW-TE17-6.8B	
< JUMPER RESISTOR >			
FB951	1-216-864-11	SHORT CHIP 0	
FB952	1-216-864-11	SHORT CHIP 0	

VOL BOARD *****			
< CAPACITOR >			
C901	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
C902	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
< JUMPER RESISTOR >			
JR902	1-216-864-11	SHORT CHIP 0	
< RESISTOR >			
R930	1-218-867-11	METAL CHIP 6.8K 0.5%	1/10W
R931	1-216-821-11	METAL CHIP 1K 5%	1/10W
R932	1-218-867-11	METAL CHIP 6.8K 0.5%	1/10W
R933	1-216-821-11	METAL CHIP 1K 5%	1/10W
< ROTARY ENCODER >			
S950	1-478-133-11	ENCODER, ROTARY (OPERATION DIAL)	
S951	1-418-725-51	ENCODER, ROTARY (12 TYPE) (MASTER VOLUME)	

X-ROUND BOARD *****			
< CAPACITOR >			
C906	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
< CONNECTOR >			
CN907	1-785-330-11	PIN, CONNECTOR (LIGHT ANGLE) 4P	
CN911	1-785-329-11	PIN, CONNECTOR (LIGHT ANGLE) 3P	
< RESISTOR >			
R962	1-216-823-11	METAL CHIP 1.5K 5%	1/10W
R963	1-216-823-11	METAL CHIP 1.5K 5%	1/10W
R964	1-216-821-11	METAL CHIP 1K 5%	1/10W
R965	1-216-819-11	METAL CHIP 680 5%	1/10W
R966	1-216-817-11	METAL CHIP 470 5%	1/10W
R967	1-216-821-11	METAL CHIP 1K 5%	1/10W
R968	1-218-867-11	METAL CHIP 6.8K 0.5%	1/10W
< SWITCH >			
S938	1-771-410-21	SWITCH, TACTILE (X-ROUND ON/OFF)	
S950	1-478-133-11	ENCODER, ROTARY (X-ROUND JOG)	
S961	1-771-410-21	SWITCH, TACTILE (X-ROUND MODE)	
S962	1-771-410-21	SWITCH, TACTILE (MAX/JUMP MODE)	
S963	1-771-410-21	SWITCH, TACTILE (JUMP PAD)	
S964	1-771-410-21	SWITCH, TACTILE (MAX PAD)	

HCD-ZUX9

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Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS *****	
53	1-828-991-11	WIRE (FLAT TYPE) (17 CORE)	
208	1-828-966-11	WIRE (FLAT TYPE) (11 CORE)	
212	1-417-656-11	DECK, MECHA	
△251	1-468-737-51	SWITCHING, POWER	
252	1-828-361-11	WIRE (FLAT TYPE) (19 CORE)	
253	1-828-954-11	WIRE (FLAT TYPE) (9 CORE)	
△304	1-775-790-71	CORD, POWER (AUS)	
△304	1-777-071-83	CORD, POWER (E2,E13,E51)	
△304	1-783-820-11	CORD, POWER (US)	
△305	1-569-008-21	ADAPTOR, CONVERSION (E2,E51)	
309	1-828-374-11	WIRE (FLAT TYPE) (21 CORE)	
314	1-457-369-11	CORE, FERRITE (US,AUS)	
352	1-828-938-11	WIRE (FLAT TYPE) (5 CORE)	
401	1-471-035-11	MAGNET ASSY	
403	1-828-977-11	WIRE (FLAT TYPE) (13 CORE)	
405	1-834-268-11	WIRE (FLAT TYPE) (16 CORE)	
406	1-828-404-11	WIRE (FLAT TYPE) (27 CORE)	
△427	A-4735-357-A	BASE ASSY, OP	
△F1241	1-533-311-12	FUSE, GLASS CYLINDRICAL (DIA.5) (8A/125V) (US)	
△F1241	1-533-949-33	FUSE, CYLINDRICAL (TIME LAG) (T8AL/250V) (EXCEPT US)	
△F1251	1-533-311-12	FUSE, GLASS CYLINDRICAL (DIA.5) (8A/125V) (US)	
△F1251	1-533-949-33	FUSE, CYLINDRICAL (TIME LAG) (T8AL/250V) (EXCEPT US)	
△F1261	1-533-311-12	FUSE, GLASS CYLINDRICAL (DIA.5) (8A/125V) (US)	
△F1261	1-533-949-33	FUSE, CYLINDRICAL (TIME LAG) (T8AL/250V) (EXCEPT US)	
△F1271	1-533-311-12	FUSE, GLASS CYLINDRICAL (DIA.5) (8A/125V) (US)	
△F1271	1-533-949-33	FUSE, CYLINDRICAL (TIME LAG) (T8AL/250V) (EXCEPT US)	
△F1281	1-532-504-33	FUSE (T4AL/250V) (EXCEPT US)	
△F1281	1-533-419-12	FUSE, GLASS CYLINDRICAL (DIA.5) (4A/125V) (US)	
△F1291	1-532-504-33	FUSE (T4AL/250V) (EXCEPT US)	
△F1291	1-533-419-12	FUSE, GLASS CYLINDRICAL (DIA.5) (4A/125V) (US)	
M741	A-1108-965-A	MOTOR ASSY, TABLE (TABLE)	
M751	A-4737-553-A	MOTOR ASSY, LOADING (LOADING)	
M891	1-763-372-11	FAN, DC	
M892	1-763-372-11	FAN, DC	
RE701	1-477-680-12	ENCODER, ROTARY (DISC TRAY ADDRESS DETECT)	
S201	1-771-853-11	SWITCH, DETECTION (LIMIT)	
△T1200	1-445-258-11	TRANSFORMER, POWER (EXCEPT US)	
△T1200	1-445-319-11	TRANSFORMER, POWER (US)	
TU901	1-693-733-11	TUNER (FM/AM) (ANTENNA) (US)	
TU901	1-693-734-11	TUNER (FM/AM) (ANTENNA) (AUS)	
TU901	1-693-734-21	TUNER (FM/AM) (ANTENNA) (E2,E13,E51)	

MEMO

