

HCD-ZX9

SERVICE MANUAL

Ver. 1.2 2007.02

US Model
Mexican Model



- HCD-ZX9 is the tuner, deck, CD and amplifier section in FST-ZX9, LBT-ZX9.

CD Section	Model Name Using Similar Mechanism	HCD-ZX6/ZX8
	CD Mechanism Type	CDM79B-F1BD81
	Base Unit Name	BU-F1BD81A
	Optical Pick-up Name	KSM-215DCP/C2NP
TAPE Section	Model Name Using Similar Machanism	HCD-ZX6/ZX8
	Tape Mechanism Type	CWM43RR35

SPECIFICATIONS

AUDIO POWER SPECIFICATION (US MODEL)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 6-ohm loads, both channels driven, from 120 Hz – 10 kHz; rates 140 watts per channel minimum RMS power, with no more than 10% total harmonic distortion from 250 milliwatts to rated output.

Amplifier section

US models:

The following measured at AC 120 V, 60 Hz

Mexican models:

The following measured at AC 127 V, 60 Hz

DIN power output (rated):

140 × 2 + 140 × 2 watts
(6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference):

180 × 2 + 180 × 2 watts
(6 ohms at 1 kHz, 10% THD)

Inputs

PHONO IN (phono jack):

sensitivity 3 mV,
impedance 47 kOhms

MIC (phone jack):

sensitivity 1 mV,
impedance 10 kOhms

GAME INPUT AUDIO L/R (phono jacks):
sensitivity 250 mV,
impedance 47 kOhms

GAME INPUT VIDEO (phono jack):
1 Vp-p, 75ohms

VIDEO/MD IN L/R (phono jacks):
sensitivity 250 mV/450 mV,
impedance 47 kOhms

Outputs

PHONES (stereo phone jack):

accepts headphones of
8 ohms or more

VIDEO/MD OUT L/R (phono jacks):
voltage 250 mV,
impedance 1 kOhm

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

SPEAKER:

FRONT L/R

Use only the supplied
speaker SS-ZX9

SURROUND L/R

Use only the supplied
speaker SS-ZX9

– Continued on next page –

COMPONENT Hi-Fi STEREO SYSTEM

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Sony Corporation
Home Audio Division
Published by Sony Techno Create Corporation

SONY®

CD/MP3 player section

System	Compact disc and digital audio system
Laser	Semiconductor laser ($\lambda=780$ 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 (± 0.5 dB)
Wave length	780 – 790 nm
Signal-to-noise-ratio	More than 90 dB
Dynamic range	More than 90 dB
OPTICAL CD DIGITAL OUT (Square optical connector jack, rear panel)	
Wave length	660 nm
Output level	-18 dBm

Tape deck section

Recording system	4-track 2-channel, stereo
Frequency response	50 – 13,000 Hz (± 3 dB), using Sony TYPE I tapes
Wow and flutter	$\pm 0.15\%$ W. Peak (IEC) 0.1% W. RMS (NAB) $\pm 0.2\%$ W. Peak (DIN)

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

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

AM tuner section

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

General

US models:	
Power requirements	120 V, 60 Hz
Mexican models:	
Power requirements	127 V, 60 Hz
Power consumption	330 watts
Dimensions (w/h/d) (Main Unit)	
	Approx. 362 × 437 × 465 mm (14 1/4 × 17 1/4 × 18 1/4 inches)
Mass (Main Unit)	Approx. 19.0 kg (14 lb 15 oz)
Supplied accessories:	AM loop antenna (1) FM lead antenna (1) Remote Commander (1) Batteries (2) Speaker cords: –grey (10m) (33 ft) (2) –white (3m) (10 ft) (2) Speaker pads (16)

Design and specifications are subject to change without notice.

SAFETY-RELATED COMPONENT WARNING!!

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

Notes on Chip Component Replacement

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

Flexible Circuit Board Repairing

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

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

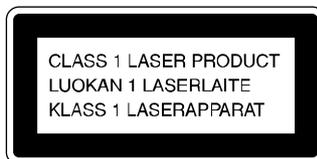
The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter 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 2 V AC range are suitable. (See Fig. A)

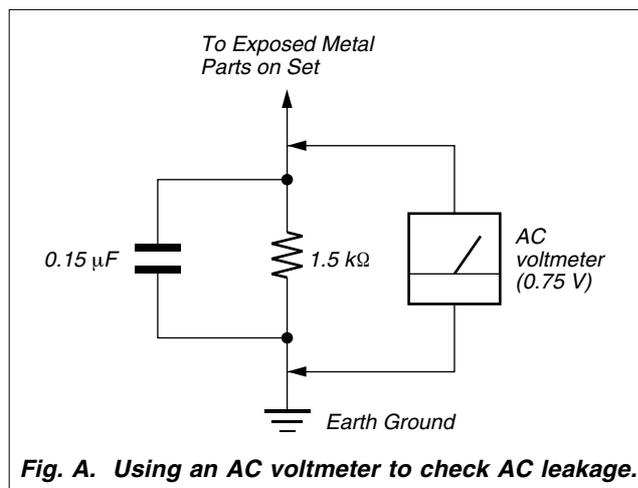
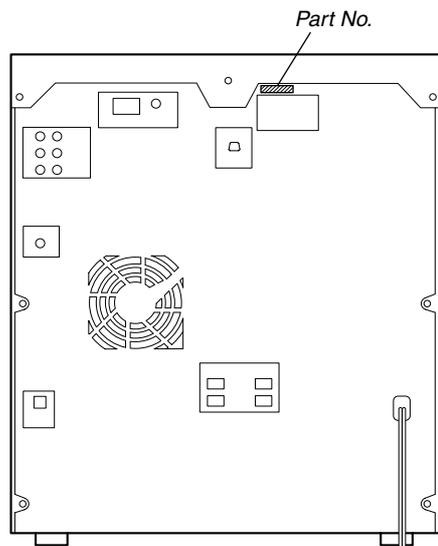


Fig. A. Using an AC voltmeter to check AC leakage.

MODEL IDENTIFICATION

– BACK PANEL –



MODEL	PART No.
Mexican	2-649-004-2□
US	2-649-004-3□

PLAYABLE DISC

You can playback the following discs on this system. The other discs cannot be played back.

List of playable discs

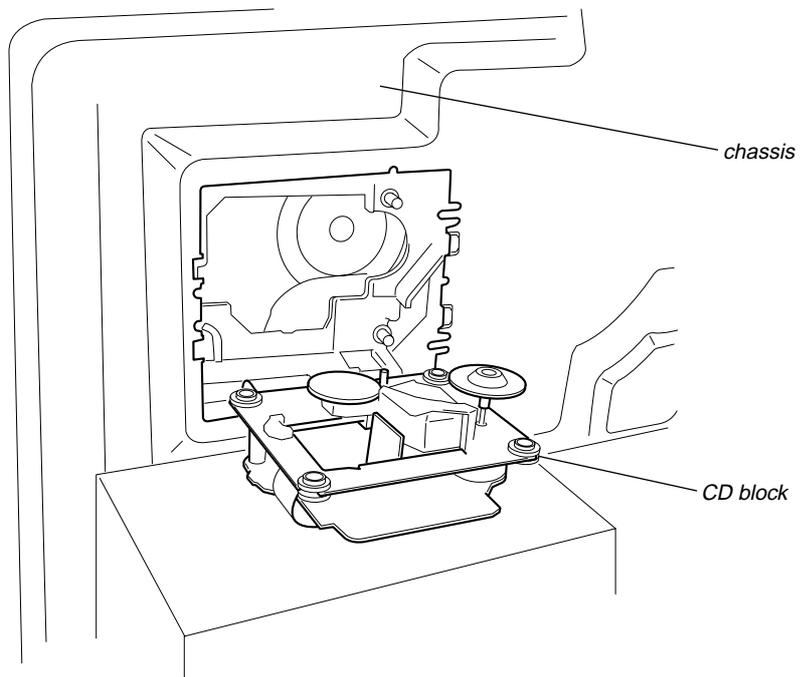
Format of discs	Disc logo	Contents
Audio CDs		Audio
CD-R/CD-RW (Audio CDs)		Audio
CD-R/CD-RW (Discs with MP3 audio tracks)		Audio

TABLE OF CONTENTS

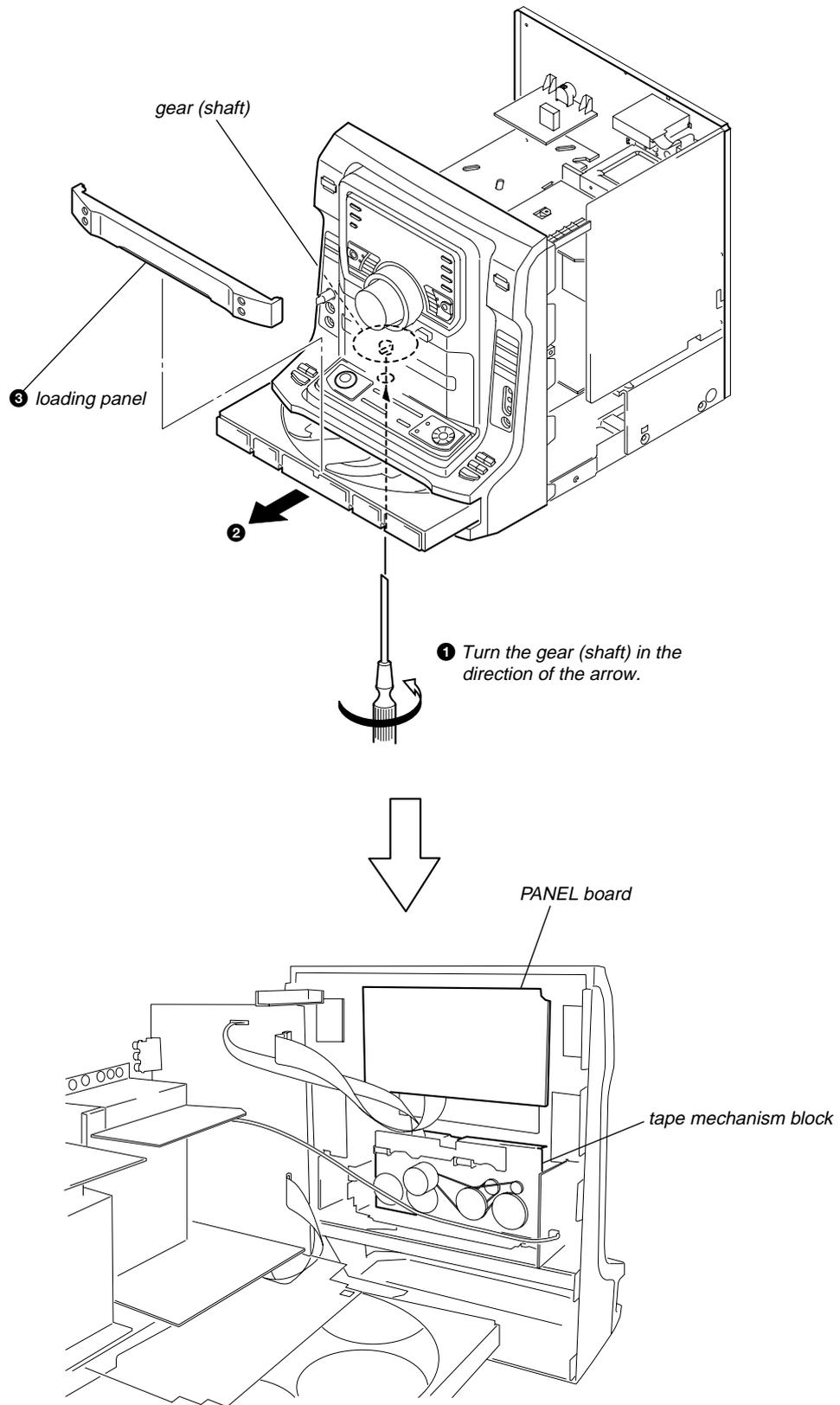
1. SERVICE NOTE	
1-1. Service Position of CD BU Block	6
1-2. Service Position of TC Mechanism, Panel Board	7
1-3. Service Position of Power Board	8
1-4. Service Position of CD Changer	8
2. GENERAL	
List of Button Locations and Reference Pages	9
3. DISASSEMBLY	
3-1. Case	13
3-2. Loading Panel	13
3-3. Front Panel Section	14
3-4. Tape Mechanism Deck	14
3-5. Game-in/hp Board, Mic Board	15
3-6. Back Panel Section	15
3-7. CD Mechanism Section	16
3-8. Main Board	17
3-9. Table Assy	17
3-10. SE-130 Board	18
3-11. TD Belt	18
3-12. DC Motor (M901)	19
3-13. Optical Pick-up	19
3-14. BD81A Board	20
4. TEST MODE	21
5. MECHANICAL ADJUSTMENTS	25
6. ELECTRICAL ADJUSTMENTS	25
7. DIAGRAMS	
7-1. Circuit Boards Location	28
7-2. Block Diagram –CD Servo Section–	29
7-3. Block Diagram –Tuner/Tape Deck Section–	30
7-4. Block Diagram –Main Section–	31
7-5. Block Diagram –Display/Power Section–	32
7-6. Printed Wiring Board –BD Section–	34
7-7. Schematic Diagram –BD Section–	35
7-8. Printed Wiring Boards –Loading Section–	36
7-9. Schematic Diagram –Loading Section–	37
7-10. Schematic Diagram –Main Section (1/4)–	38
7-11. Schematic Diagram –Main Section (2/4)–	39
7-12. Schematic Diagram –Main Section (3/4)–	40
7-13. Schematic Diagram –Main Section (4/4)–	41
7-14. Printed Wiring Board –Main Section–	42
7-15. Printed Wiring Boards –Power Section–	43
7-16. Schematic Diagram –Power Section (1/2)–	44
7-17. Schematic Diagram –Power Section (2/2)–	45
7-18. Printed Wiring Board –Panel Section–	46
7-19. Schematic Diagram –Panel Section–	47
7-20. Printed Wiring Boards –Volume Section–	48
7-21. Printed Wiring Board –Mic Section–	49
7-22. Schematic Diagram –Volume, Mic Section–	50
7-23. Schematic Diagram –Switch Section–	51
7-24. Printed Wiring Boards –Switch Section (1/2)–	52
7-25. Printed Wiring Boards –Switch Section (2/2)–	53
7-26. Printed Wiring Boards –Jack Section–	54
7-27. Schematic Diagram –Jack Section–	55
7-28. Printed Wiring Board –Lighting Section–	56
7-29. Schematic Diagram –Lighting Section–	56
7-30. Printed Wiring Board –Surround Section–	57
7-31. Schematic Diagram –Surround Section–	58
7-32. Printed Wiring Boards –Transformer Section–	59
7-33. Schematic Diagram –Transformer Section–	60
8. EXPLODED VIEWS	
8-1. Back Panel Section	71
8-2. Front Panel Section (1)	72
8-3. Front Panel Section (2)	73
8-4. Chassis Section	74
8-5. CD Mechanism Section (1)	75
8-6. CD Mechanism Section (2)	76
9. ELECTRICAL PARTS LIST	77

SECTION 1
SERVICE NOTE

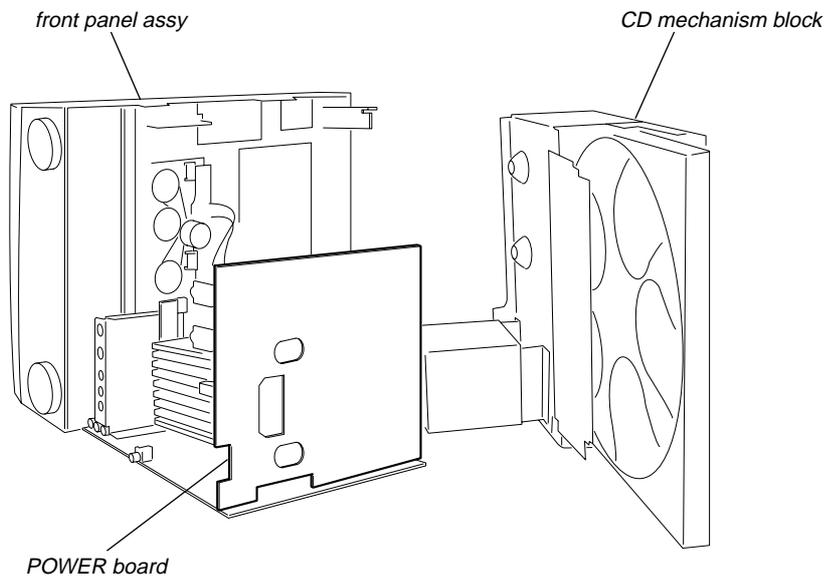
1-1. SERVICE POSITION OF CD BU BLOCK



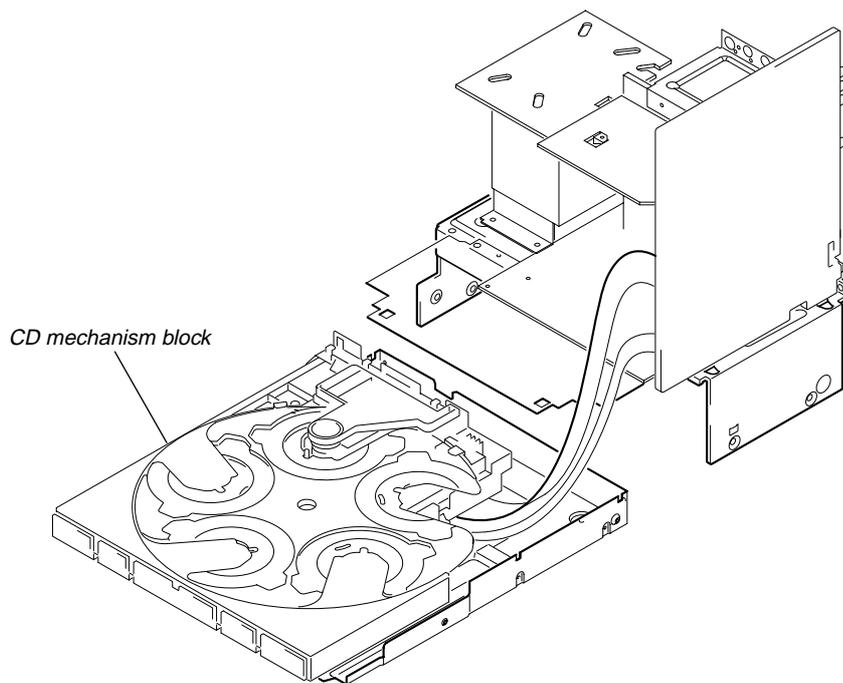
1-2. SERVICE POSITION OF TC MECHANISM, PANEL BOARD



1-3. SERVICE POSITION OF POWER BOARD



1-4. SERVICE POSITION OF CD CHANGER



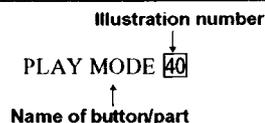
SECTION 2 GENERAL

This section is extracted
from instruction manual.

List of button locations and reference pages

How to use pages 41 to 43

Use this page to find the location of buttons and other parts of the system that are mentioned in the text.



Main unit

ALPHABETICAL ORDER

A-D

ALBUM +/- **46**
AMP MENU **15**
CD SYNC **19**
CLOCK/TIMER SELECT **2**
CLOCK/TIMER SET **5**
Deck A **30**
Deck B **25**
DIRECTION **34**
DISC 1 ~ 5 **43**
DISC SKIP **50**
Disc tray **31**
DISPLAY **3**
Display **6**

E-H

EDIT **51**
EFFECT ON/OFF **17**
ENTER **16**
EX-CHANGE **49**
FLASH **42**
FM MODE **8**
FUNCTION **12**
GAME **21**
GAME INPUT AUDIO L/R jacks **22**
GAME INPUT VIDEO jack **22**
GAME MIXING **20**

I-Q

ILLUMINATION **39**
IR (receptor) **38**
JOG **43**
MEMORY **9**
MIC 1/MIC 2 jacks **32**
MIC LEVEL **33**
MODE **47**
P FILE **35**
PHONES jack **23**
PLAY MODE **40**
Power illuminator **28**
Preset Effect buttons **7**
SALSA/REGGAE/POP/
SAMBA/TANGO/ROCK/
JAZZ/DANCE/MOVIE/
GAME

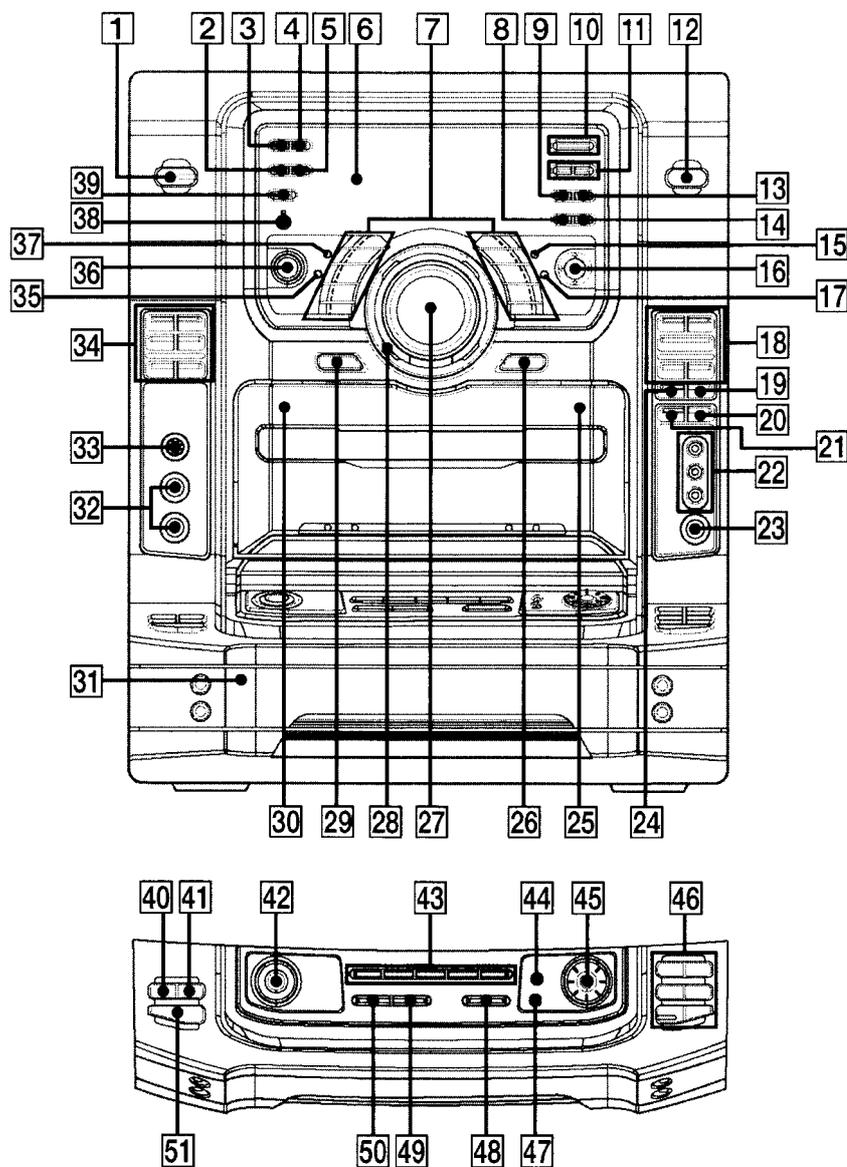
R-Z

REC PAUSE/START **24**
REPEAT **41**
SLEEP **4**
SPEAKERS **47**
SURROUND **37**
TUNER ENTER **13**
TUNER/BAND **10**
TUNING +/- **11**
TUNING MODE **14**
VOLUME +/- **27**
X-GROOVE **36**
X-ROUND ON/OFF **44**

SYMBOLS

I/⏻ (power) **1**

A **29**
B **26**
↑/↓/←/→ **16**
CD Function:
△ OPEN/CLOSE **48**
▶▶ (play/pause) **46**
■ (stop) **46**
◀◀/▶▶ (rewind/fast forward) **46**
◀◀/▶▶ (go backward/go forward) **46**
TAPE A function:
◁/▷ (play) **34**
■ (stop) **34**
◀◀◀◀/▶▶▶▶ **34**
TAPE B function:
◁/▷ (play) **18**
■ (stop) **18**
◀◀◀◀/▶▶▶▶ **18**



Additional Information

continued

45^{GB}

Remote control

ALPHABETICAL ORDER

A - E

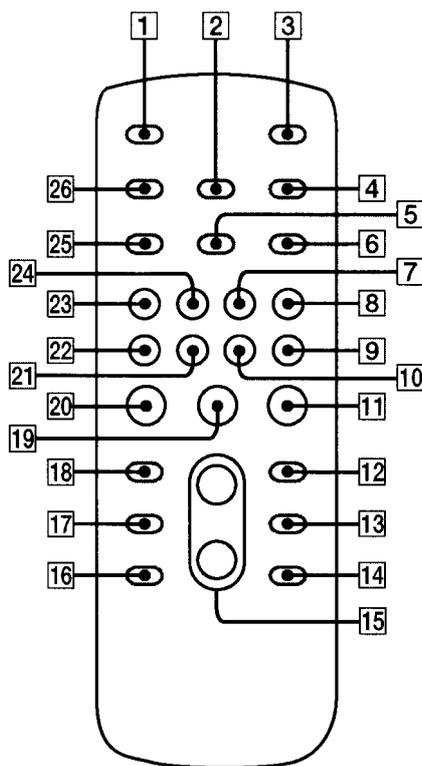
- ALBUM + 14
- ALBUM - 16
- CD 24
- CLEAR 18
- CLOCK/TIMER SELECT 2
- CLOCK/TIMER SET 4
- DISC SKIP 13
- DISPLAY 26
- ENTER 12
- EQ 17

F - Z

- FM MODE 6
- FUNCTION 8
- PLAY MODE 5
- REPEAT 6
- SLEEP 1
- TAPE 23
- TUNER/BAND 7
- TUNER MEMORY 25
- TUNING MODE 5
- VOLUME +/- 15

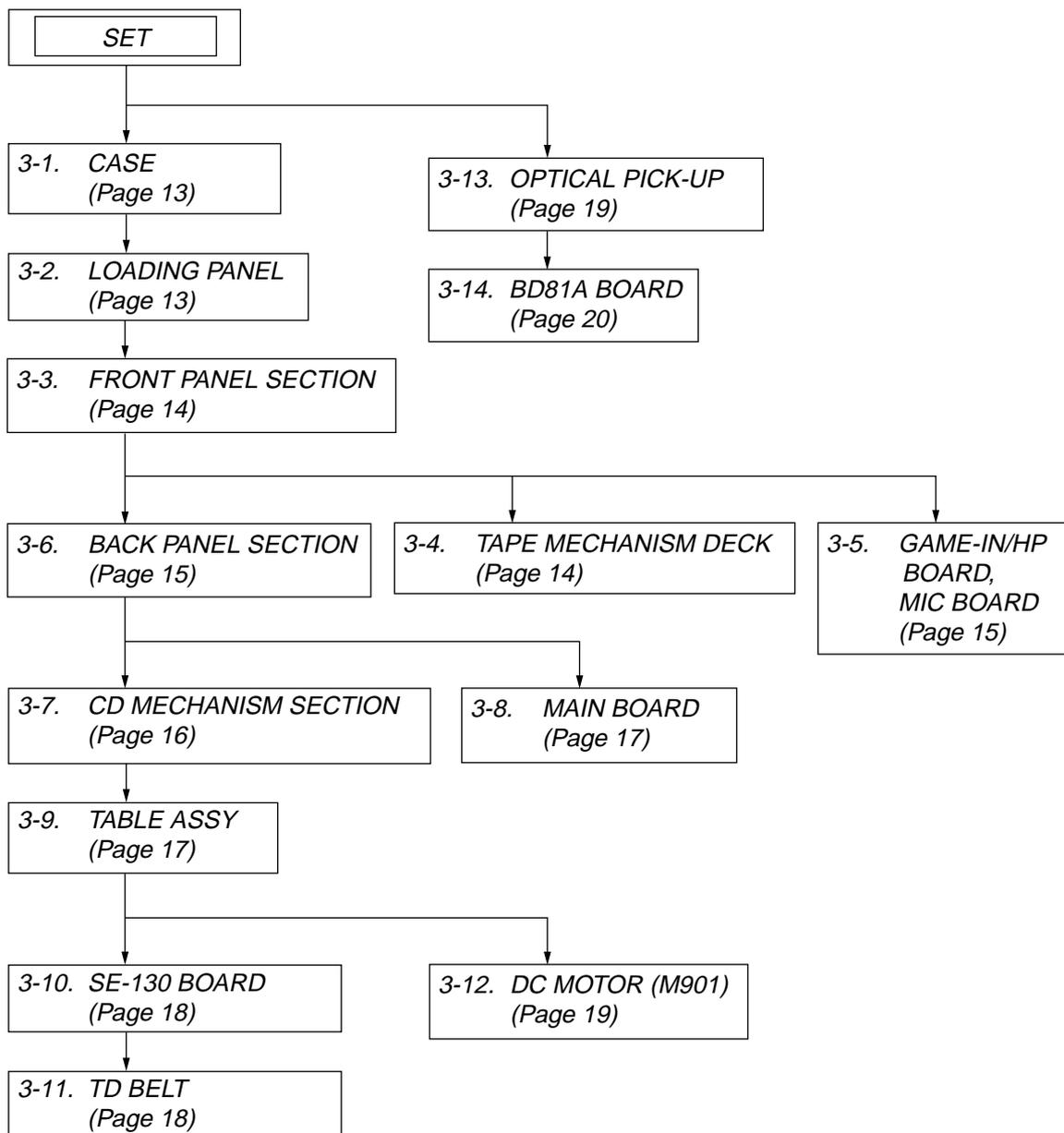
SYMBOLS

- I/⏻ (power) 3
- (stop) 11
- ⏸ (pause) 19
- ▶ (play) 20
- ◀◀ (go backward) 22
- ▶▶ (go forward) 21
- ◀◀ (rewind) 10
- ▶▶ (fast forward) 9



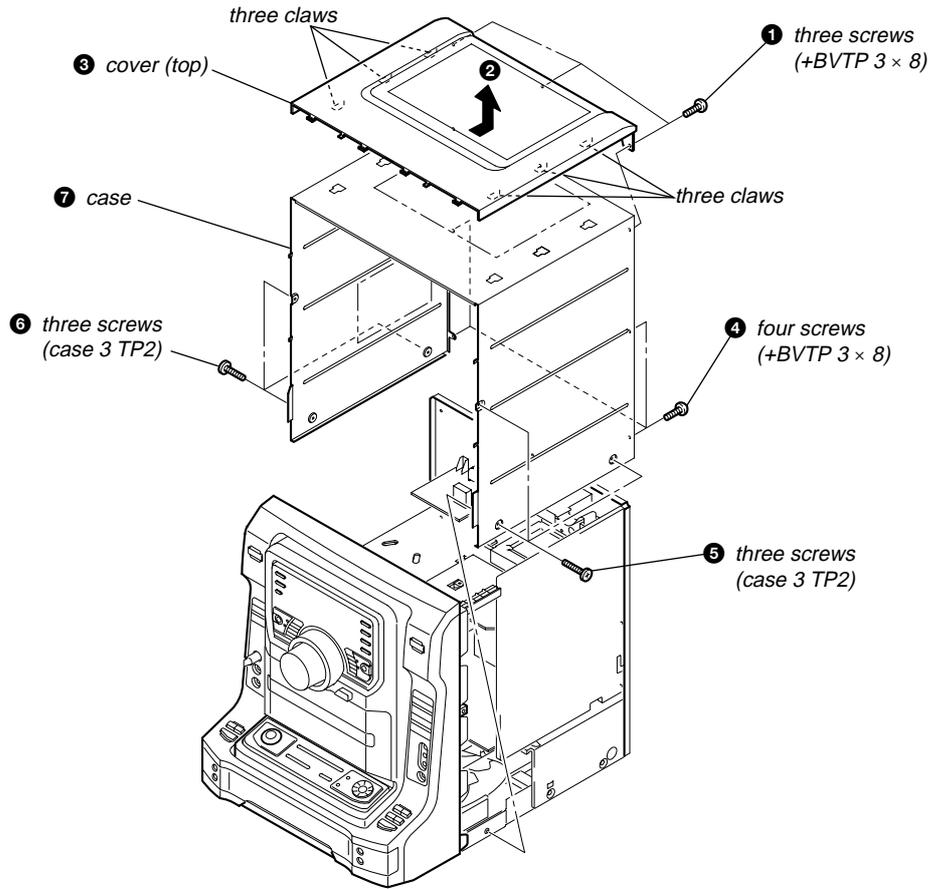
**SECTION 3
DISASSEMBLY**

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

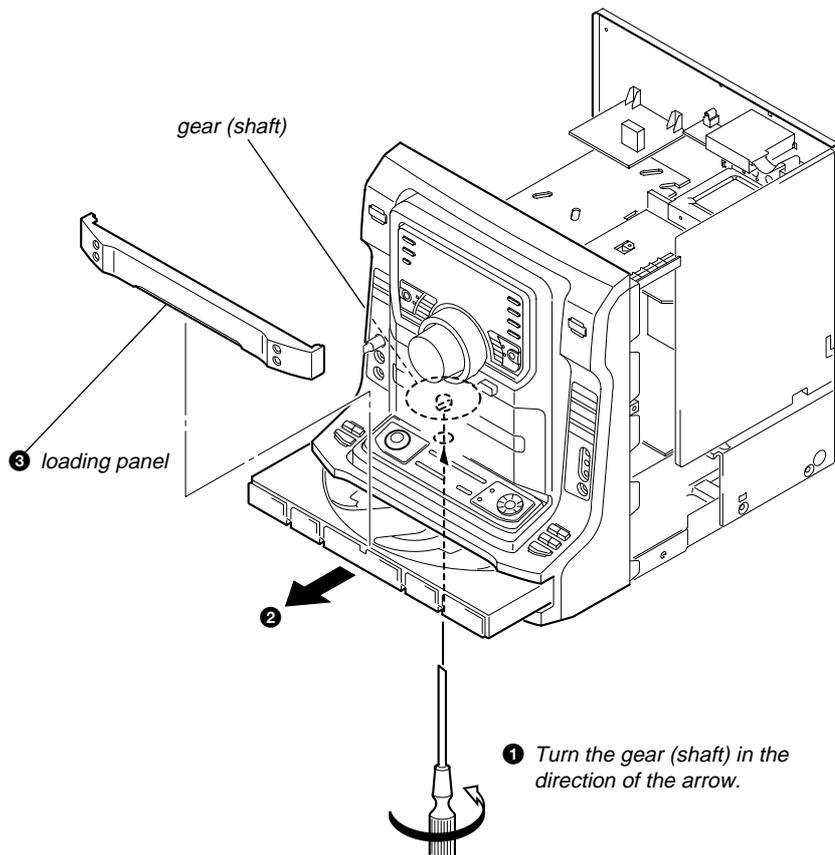


Note : Follow the disassembly procedure in the numerical order given.

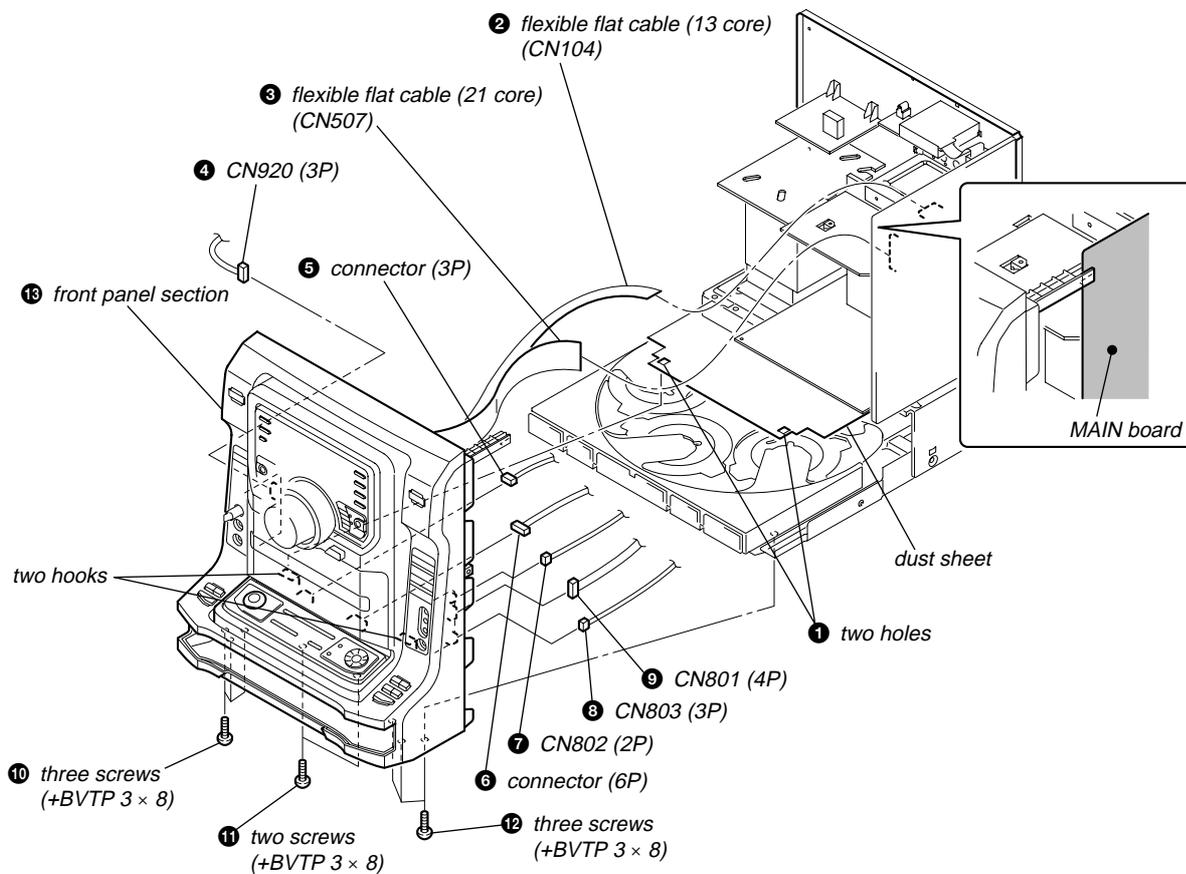
3-1. CASE



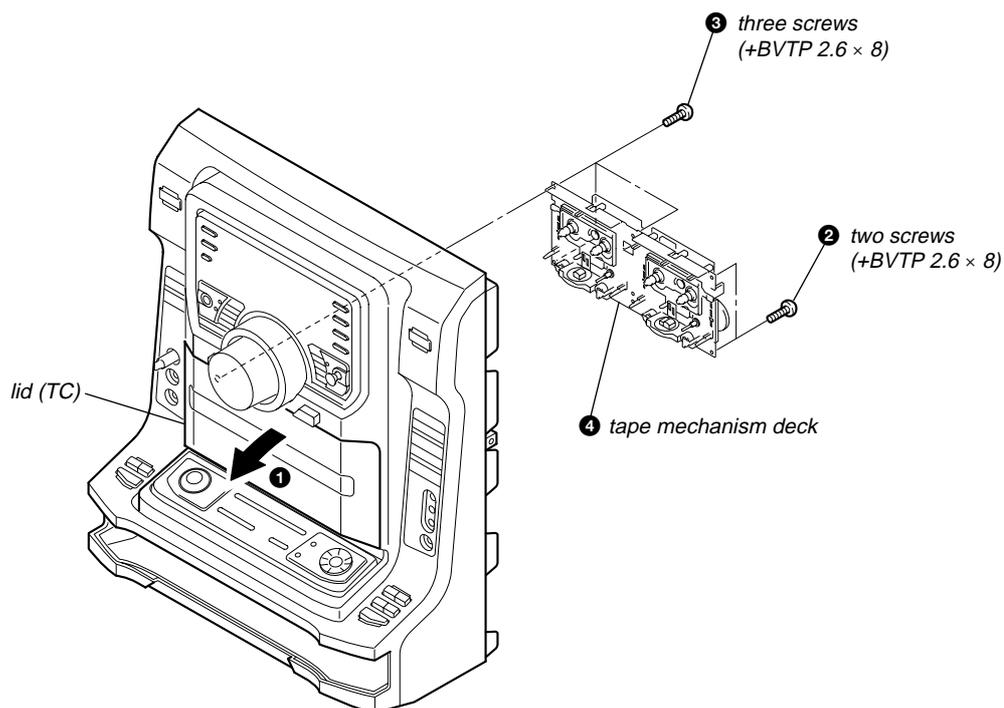
3-2. LOADING PANEL



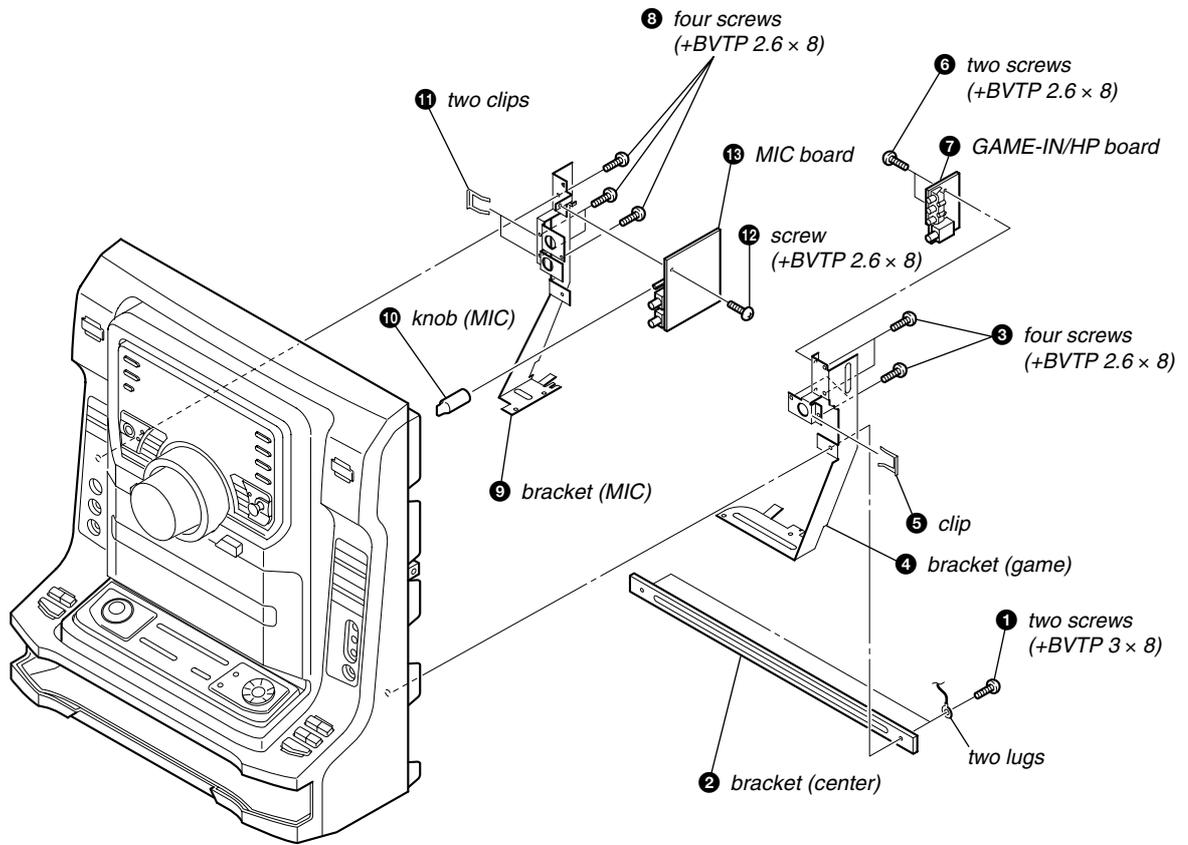
3-3. FRONT PANEL SECTION



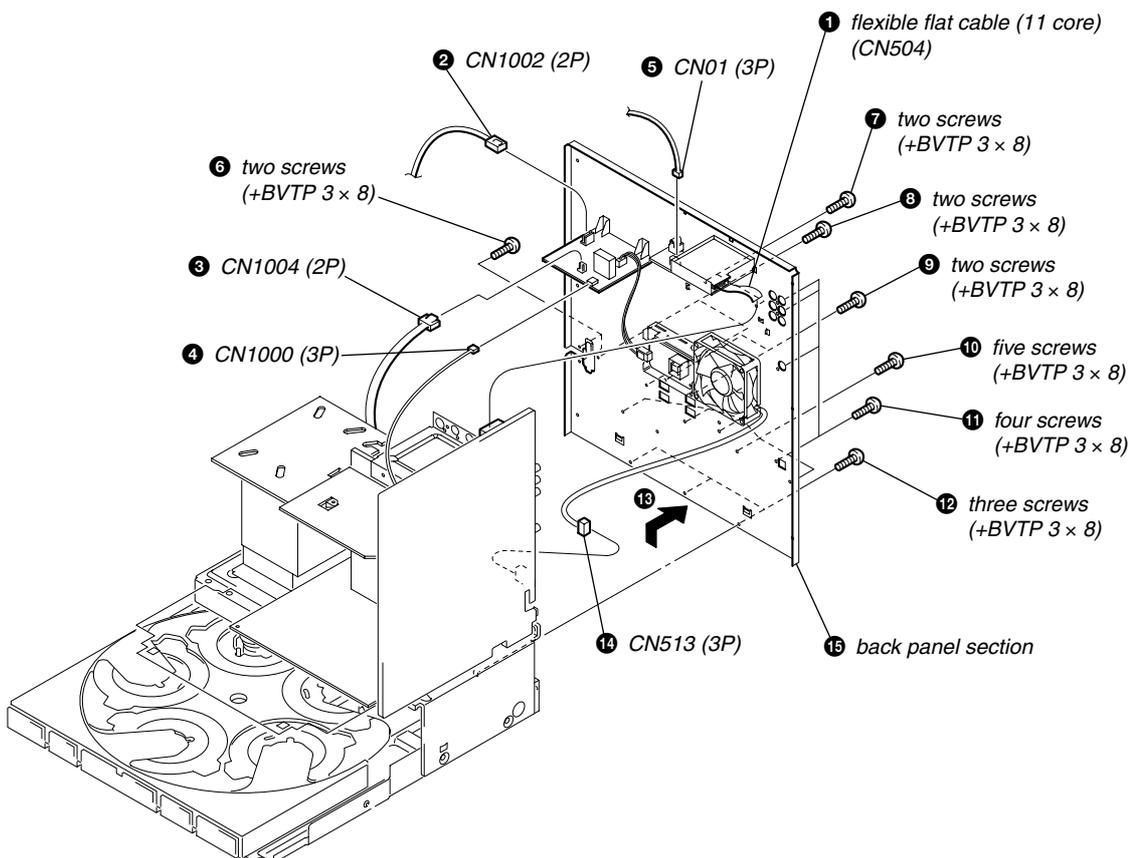
3-4. TAPE MECHANISM DECK



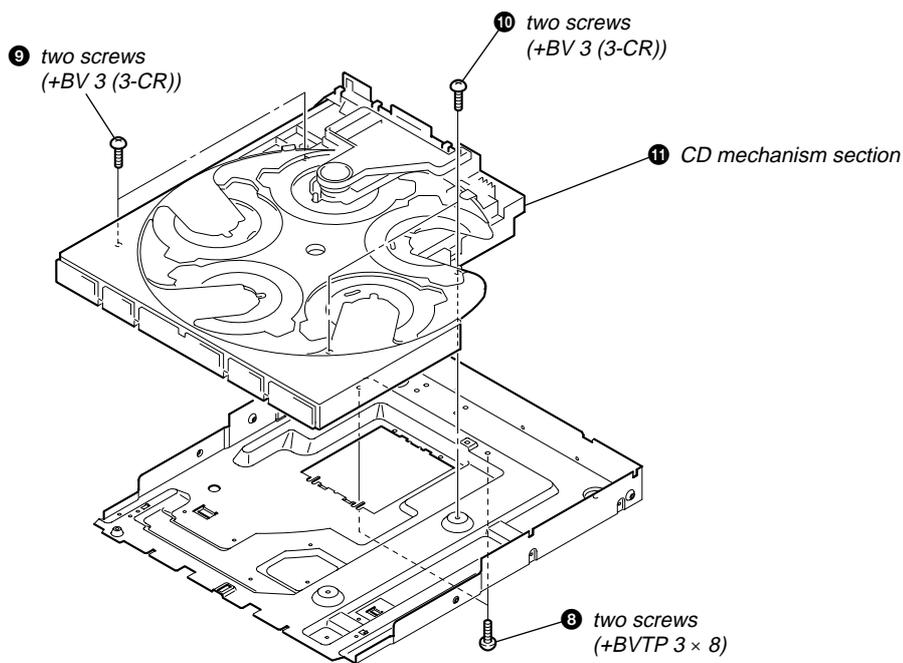
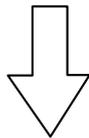
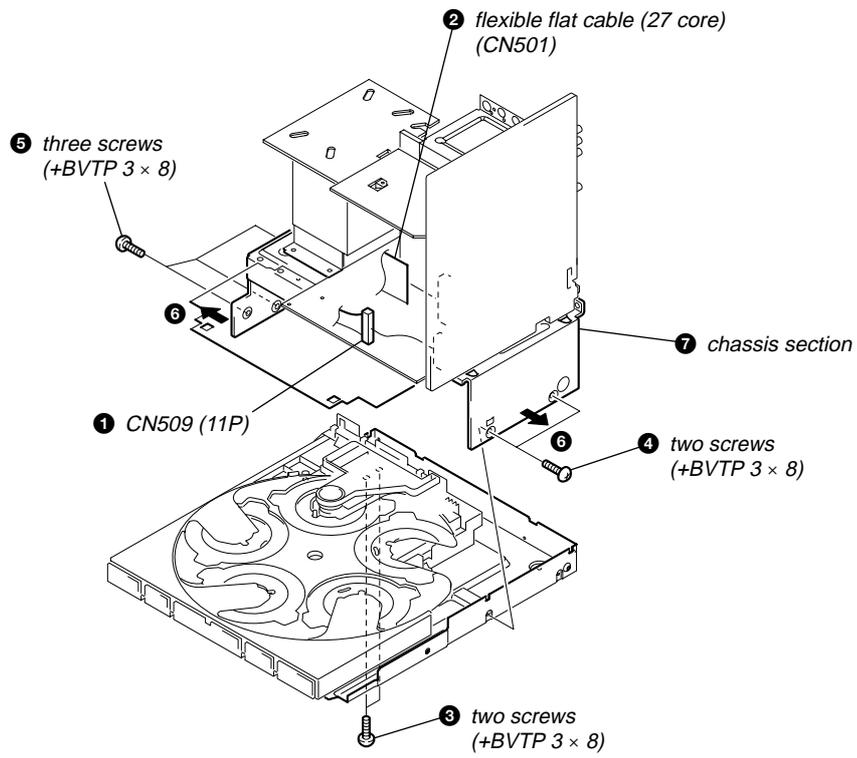
3-5. GAME-IN/HP BOARD, MIC BOARD



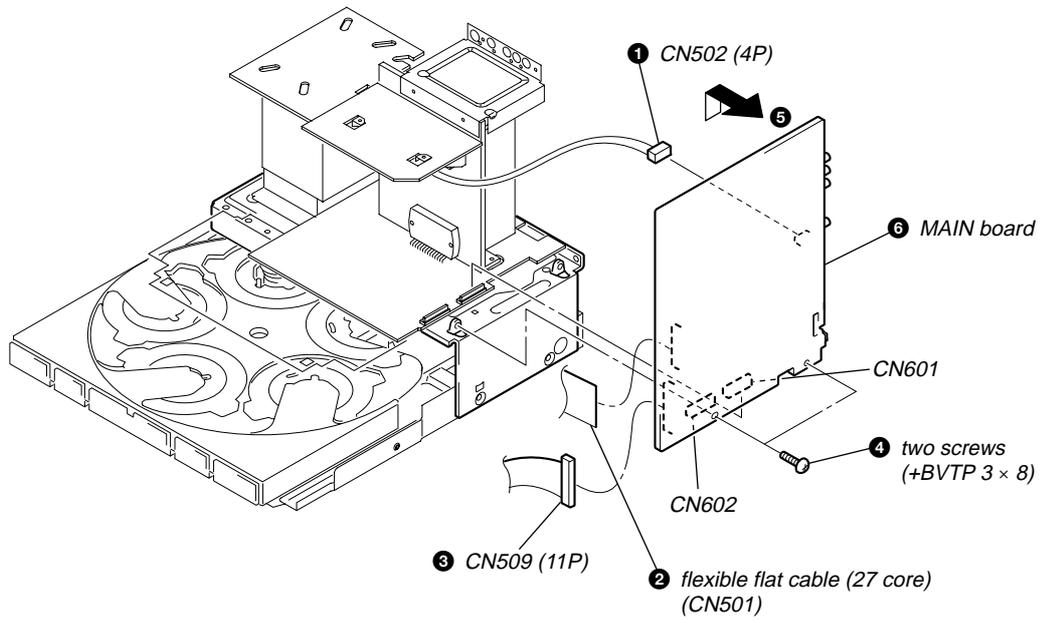
3-6. BACK PANEL SECTION



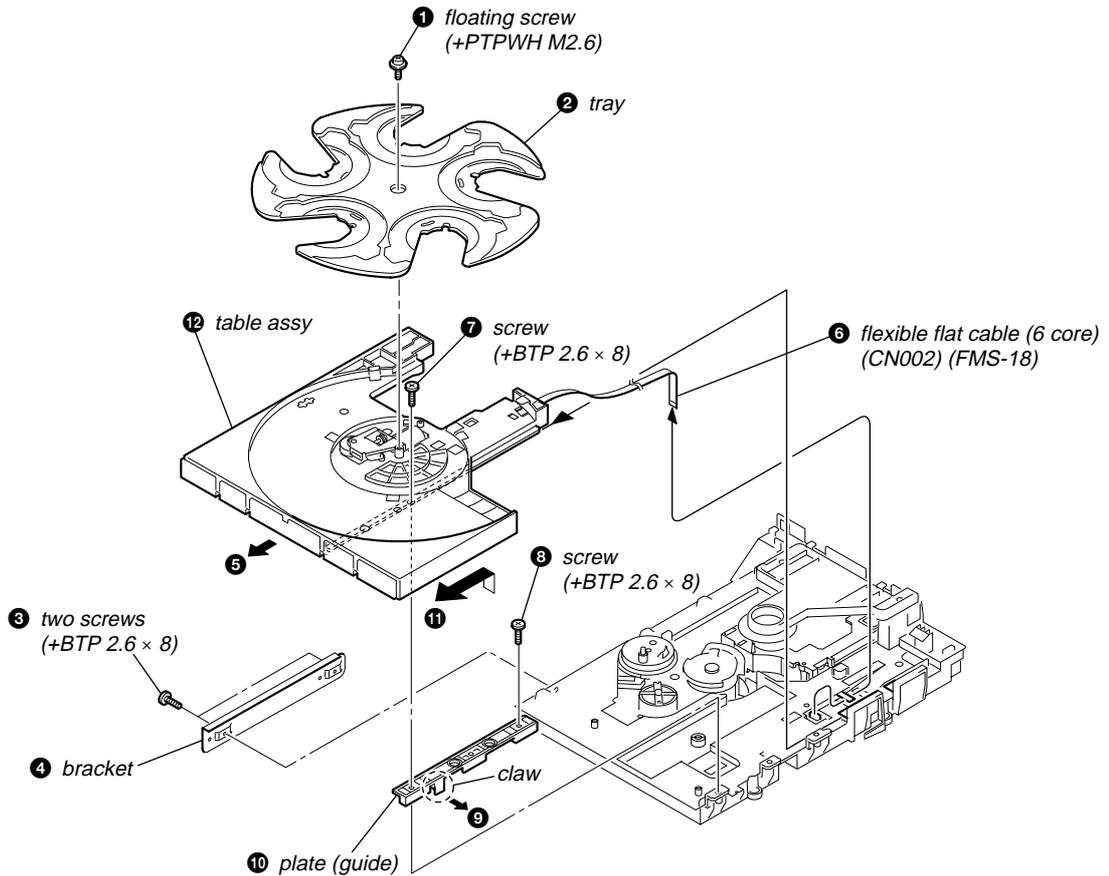
3-7. CD MECHANISM SECTION



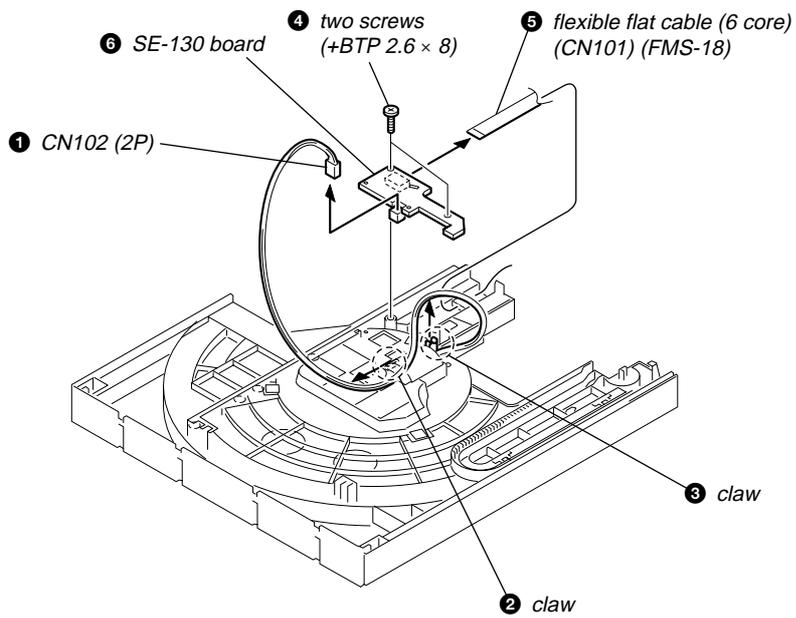
3-8. MAIN BOARD



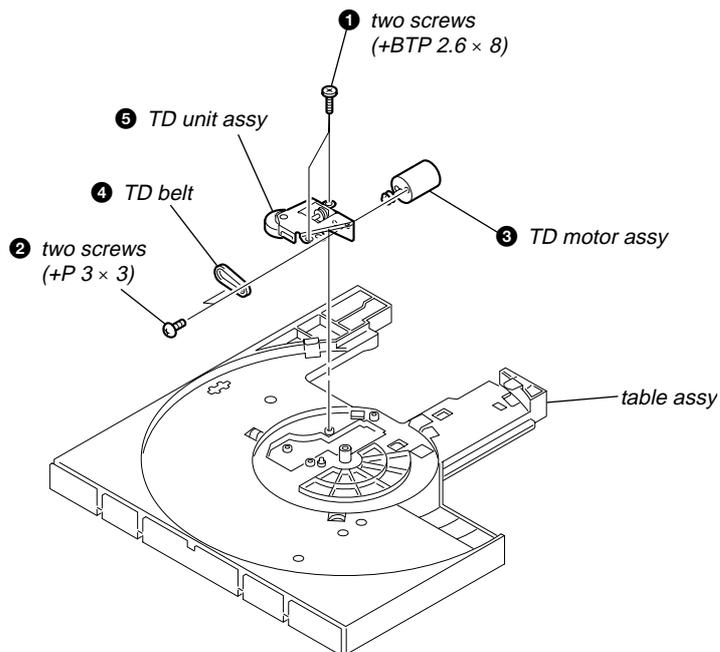
3-9. TABLE ASSY



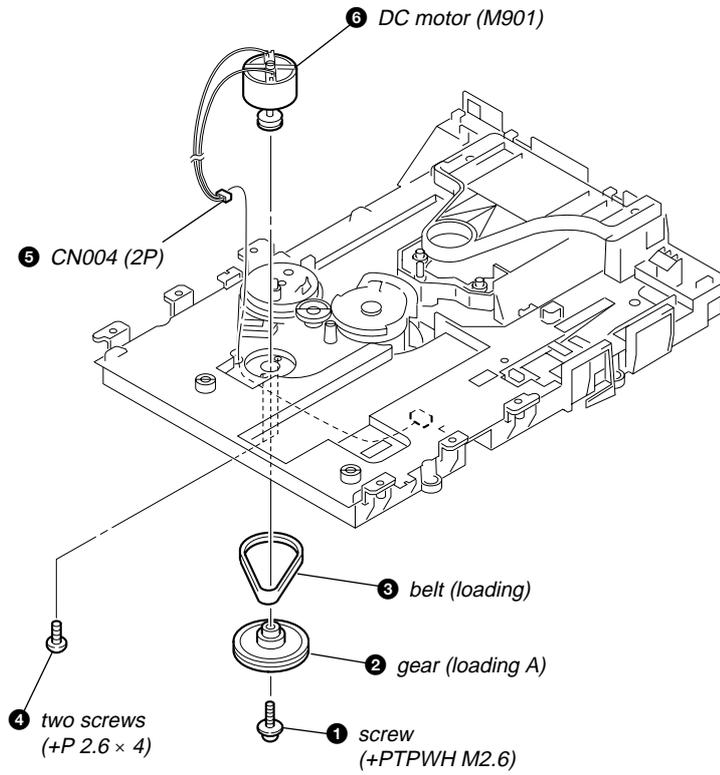
3-10. SE-130 BOARD



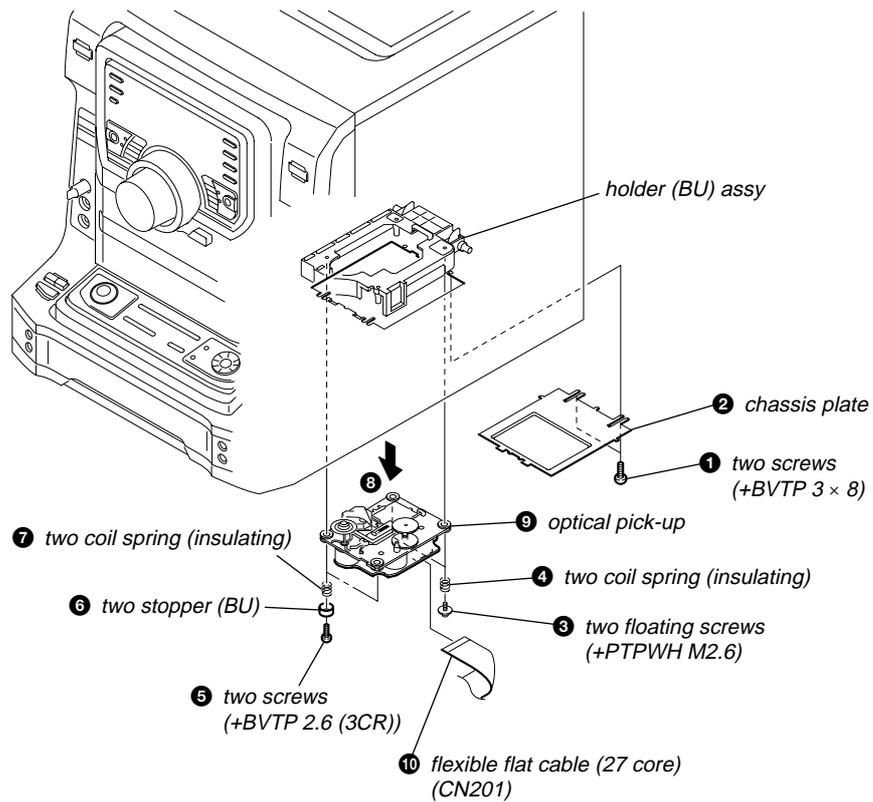
3-11. TD BELT



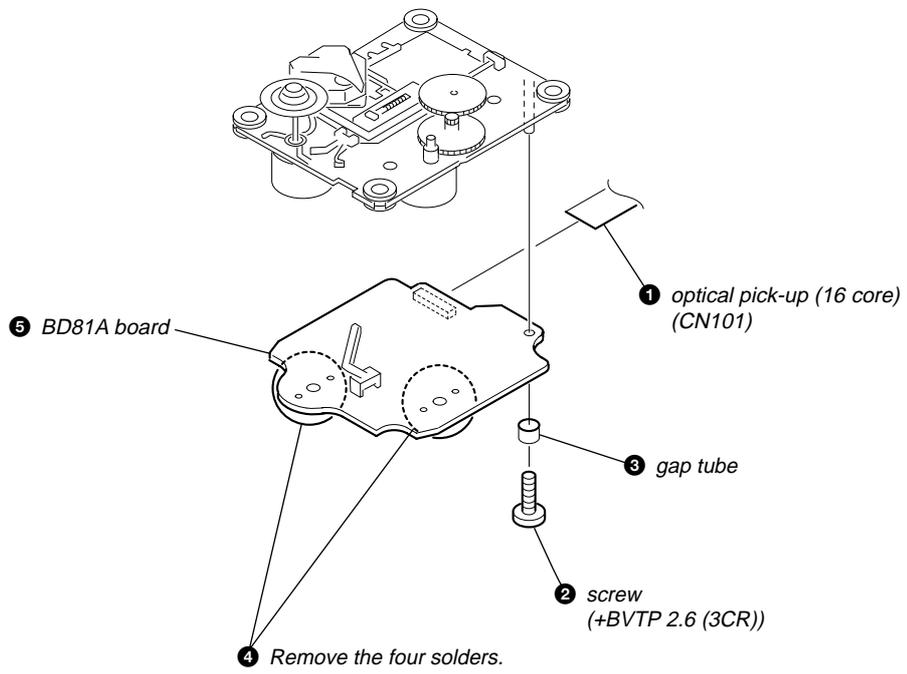
3-12. DC MOTOR (M901)



3-13. OPTICAL PICK-UP



3-14. BD81A BOARD



SECTION 4 TEST MODE

[GC TEST MODE]

- This mode is used to check the fluorescent indicator tube, LED, model, destination, software version, volume, key, jog and VACS level.

Procedure:

- Press **[TAP B]** (TAPE B) button, **[TUNER ENTER]** button and **[DISC 2]** button simultaneously.
- All LEDs and segments in fluorescent indicator tube are lighted up.
- When you want to enter the software version display mode, press **[DISC 1]** button. The model and destination are displayed.
- Each time **[DISC 1]** button is pressed, the display changes from MC version, GC version, CD version, CDDM version, CDMA version, CDMB version, BDA version, BDB version, ST version, TC version, TA version, TM version in this order, and returns to the MC version display.
- When **[DISC 3]** button is pressed while the version numbers are being displayed except model and destination, the date of the software creation appear. When **[DISC 3]** button is pressed again, the display returns to the software version display. When **[DISC 1]** button is pressed while the date of the software creation is being displayed, the date of the software creation is displayed in the same order of software version display.
- Press **[DISC 2]** button, the key check mode is activated.
- In the key check mode, the fluorescent indicator tube displays "K0 J0 V0". Each time a button is pressed, "K" value increases. However, once a button has been pressed, it is no longer taken into account.
"J" value increases in the manner of 0, 1, 2, 3 ... if **[JOG]** is turned clockwise, or it decreases in the manner of 0, 9, 8, 7 ... if **[JOG]** knob is turned counter-clockwise.
"V" value increases in the manner of 0, 1, 2, 3 ... if **[VOLUME]** knob is turned clockwise, or it decreases in the manner of 0, 9, 8, 7 ... if **[VOLUME]** knob is turned counter-clockwise.
- When **[DISC 3]** button is pressed after all LEDs and segments in fluorescent indicator tube light up, the fluorescent indicator tube displays "VACS A APBB". A is VACS level which is trigger by signal level while BB is VACS level which is trigger by APVACS (Abuse Protection VACS).
- When **[EX-CHANGE]** button is pressed after all LEDs and segments in fluorescent indicator tube light up, alternate segments in fluorescent indicator tube would light up. If you press **[EX-CHANGE]** button again, another half of alternate segments in fluorescent indicator tube would light up. Pressing **[EX-CHANGE]** button again would cause all segments lights up.
- To release from this mode, press three buttons in the same manner as step 1, or disconnect the power cord.

[MC TEST MODE]

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

Procedure:

- To enter MC Test Mode
 - Press **[TAP B]** (TAPE B) button, **[TUNER ENTER]** button and **[DISC 3]** button simultaneously.
 - The 4 speaker symbols and CD ring indicators flash on the fluorescent indicator tube. The function is changed to VIDEO.
- Check of Amplifier
 - When **[▲]** button is pressed, GEQ increases to its maximum and a message "GEQ MAX" appears on the fluorescent indicator tube.
 - When **[▼]** button is pressed, GEQ decreases to its minimum and a message "GEQ MIN" appears on the fluorescent indicator tube.

- When **[◀]** button or **[▶]** button is pressed, GEQ is set to flat and a message "GEQ FLAT" appears on the fluorescent indicator tube.
- When the **[VOLUME]** knob is turned clockwise even slightly, the sound volume increases to its maximum and a message "VOLUME MAX" appears on the fluorescent indicator tube.
- When the **[VOLUME]** knob is turned counter-clockwise even slightly, the sound volume decreases to its minimum and a message "VOLUME MIN" appears on the fluorescent indicator tube.

• Tape function

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

• AMS Test Mode

- Select the function "TAPE A" or "TAPE B".
- Select Loop or Relay direction mode by pressing the **[DIRECTION]** button. Insert a test tape AMS-110A or AMS-120 to selected tape deck.
- Press the **[AMP MENU]** button to enter the AMS test mode.
- After the test tape is rewind to the beginning of the tape, the AMS+ is checked, and the mechanism is shut off after detecting the AMS signal twice.
- Then the AMS- is checked and the mechanism is shut off after detecting the AMS signal twice.
- When the check is complete, a message of either OK or NG appears on the fluorescent indicator tube.

• To release from MC Test mode

- To release from this mode, press **[I/⏻]** 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 **[TAP B]** (TAPE B) button, **[TUNER ENTER]** button, and **[I/⏻]** button simultaneously.
- The fluorescent indicator tube becomes blank for a while, and the set is reset.

[VACS ON/OFF]

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

Procedure:

- Press **[I/⏻]** button to turn the set ON.
- Press **[PLAY MODE]** button and **[I/⏻]** button simultaneously. The message "VACS OFF" or "VACS ON" appears on the fluorescent indicator tube.

[TUNER STEP CHANGE]

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

Procedure:

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

[CD SERVICE MODE]

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

Procedure:

- Press **[I/⏻]** button to turn the set ON.
- Select CD function.
- Press **[■]** (TAPE B) button, **[TUNER ENTER]** button, and **[DISC 5]** button simultaneously.
- The CD service mode is activated. The message "SERVICE MODE" appears on the fluorescent indicator tube.
- With the CD in stop status, press **[▶▶]** (CD) button to move the optical pick-up to outside track, or press **[◀◀]** (CD) 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 **[PLAY MODE]** button. The message "LASER ON" or "LASER OFF" appears on the fluorescent indicator tube.
- To release from this mode, press **[I/⏻]** button.

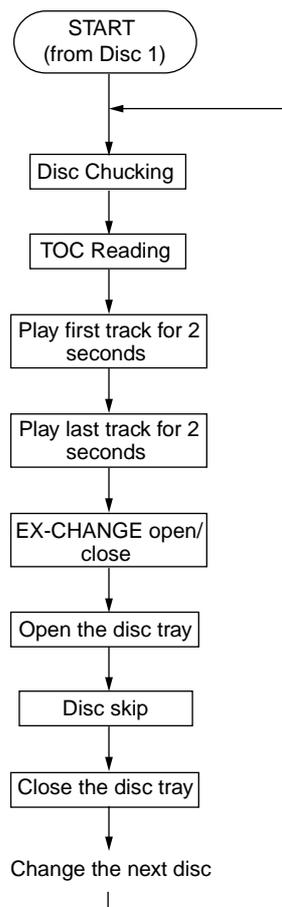
[AGING MODE]

- 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 the set ON.
- Select CD function.
- Load five discs on the disc tray.
- Press **[PLAY MODE]** button to select the "ALL DISCS" mode, and press the **[REPEAT]** button to select "REPEAT OFF" mode.
- Press **[■]** (TAPE B) button, **[TUNER ENTER]** button, and **[DISC 4]** button simultaneously.
- Aging operation is started.
- To release from this mode, press **[I/⏻]** button or disconnect the power cord to turn the power OFF.

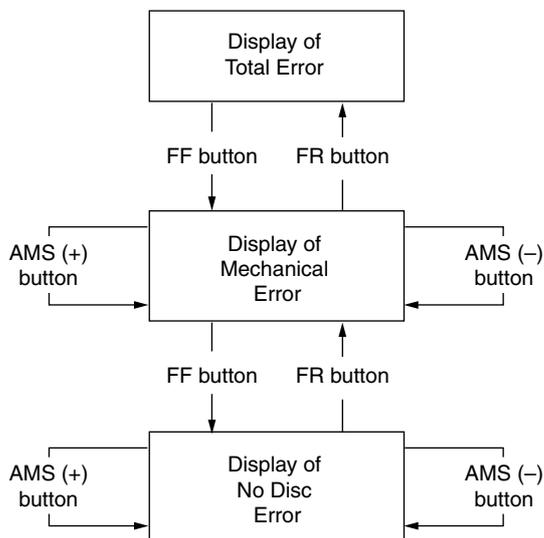
Aging mode sequence:



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

Procedure:

1. Press **■** (TAPE B) button, **TUNER ENTER** button and **DISC SKIP** button simultaneously to enter the error code display mode.
2. The fluorescent indicator tube displays the number of total error.
3. Each time **▶▶** (CD) button or **◀◀** (CD) button is pressed, display change as below.



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

- Display of total error

Em **Ed**

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

- Display of mechanical errors

M*\$\$%%&&##00

M*: The number of mechanical error (“00” is latest one)
(Press **▶▶** (CD) button or **◀◀** (CD) button to display next error)
\$\$: Not used
%%: Loading related error (Second figure is not used)
D: Stop by the problem other than mechanical problem while closing.
E: Stop by the problem other than mechanical problem while opening.
C: Stop by the problem other than mechanical problem while chucking up.
F: Stop by the problem other than mechanical problem while chucking down.
&&: Emerging error
01: Stop while chucking up.
02: Stop while chucking up.
03: Time-out of EX-CHANGE open.
05: Time-out of EX-CHANGE close.
##: Not used

- Display of no disc errors

D*\$\$%%&&##00

D*: The number of no disc error (“00” is latest one)
(Press **▶▶** (CD) button or **◀◀** (CD) 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)

[CD REPEAT 5 LIMIT OFF MODE]

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

Procedure:

1. Press **I/⏻** button to turn the set ON.
2. Select CD function.
3. Press **■** (TAPE B) button, **TUNER ENTER** button and **REPEAT** 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 “MC COLD RESET”)

[CD SHIP MODE (WITH MEMORY CLEAR)]

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

Procedure:

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

[CD SHIP MODE (WITHOUT MEMORY CLEAR)]

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

Procedure:

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

[CD POWER MANAGE]

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

Procedure:

1. Press  button to turn the set ON.
2. Select CD function.
3. Press  button to turn the set OFF.
4. Press  (CD) button and  button simultaneously. The set will power on automatically.
5. The message “CD POWER ON” or “CD POWER OFF” will be displayed on the fluorescent indicator tube.

[CD TRAY LOCK MODE]

- This mode let you lock the disc tray. When this mode is activated, the disc tray will not open when  button or  button is pressed. The message “LOCKED” will be displayed in on the fluorescent indicator tube.

Procedure:

1. Press  button to turn the set ON.
2. Select CD function.
3. Press  (CD) button and  button simultaneously and hold down until “LOCKED” or “UNLOCKED” displayed on the fluorescent indicator tube (around 5 seconds).

[VIDEO/MD SWITCHING]

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

Procedure:

1. During Power Off, press  button and  button simultaneously. The set power on automatically and the function will changed to MD. Do the same procedures again to change from MD to VIDEO.

SECTION 5 MECHANICAL ADJUSTMENTS

Precaution

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

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

Torque Measurement

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

SECTION 6 ELECTRICAL ADJUSTMENTS

DECK SECTION

0 dB=0.775 V

Precaution

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

• Test Tape

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

HCD-ZX9

Record/Playback Head Azimuth Adjustment

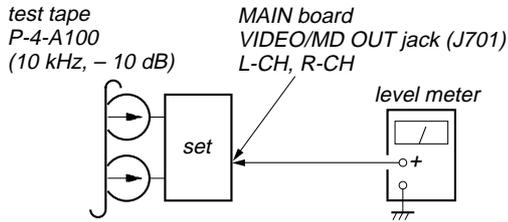
DECK A **DECK B**

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

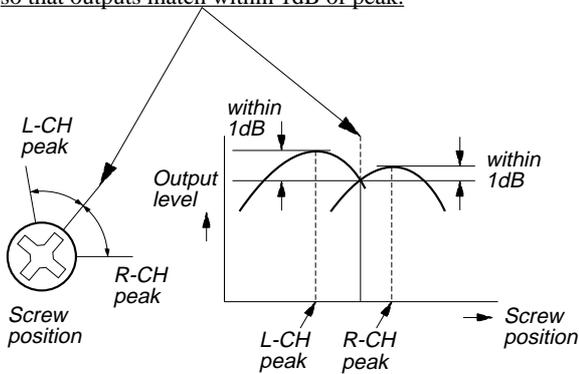
Note: Perform this adjustments for both decks

Procedure:

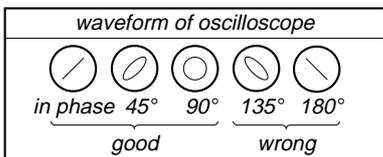
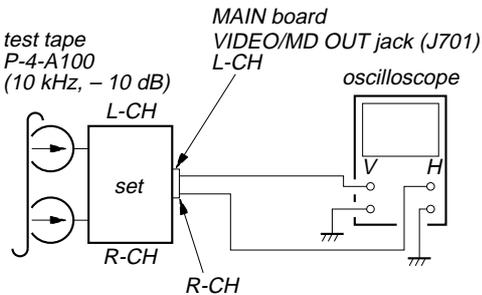
1. Mode: Playback (FWD)



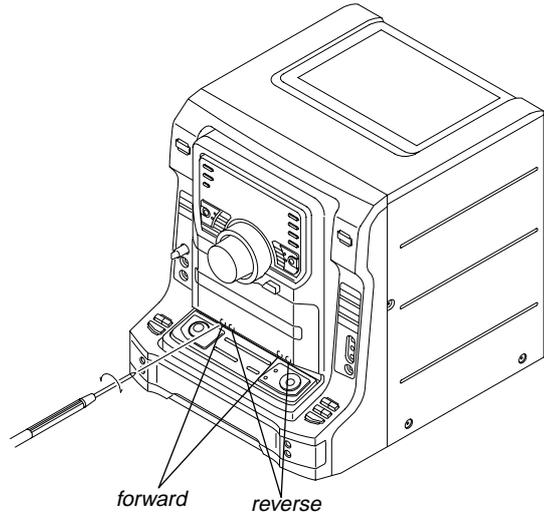
2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1dB of peak.



3. Mode: Playback



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

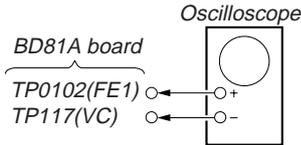


CD SECTION

Note:

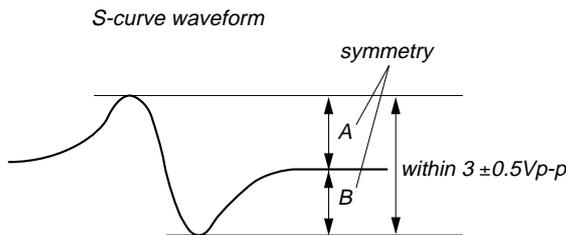
1. CD Block is basically designed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 (3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10M impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal level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

S-Curve Check



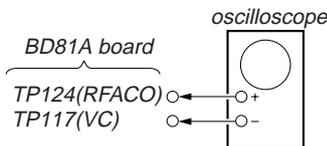
Procedure:

1. Connect oscilloscope to TP102 (FE1) and TP117 (VC).
2. Press the button to 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.

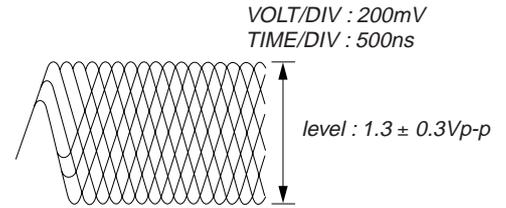
RF Level Check



Procedure:

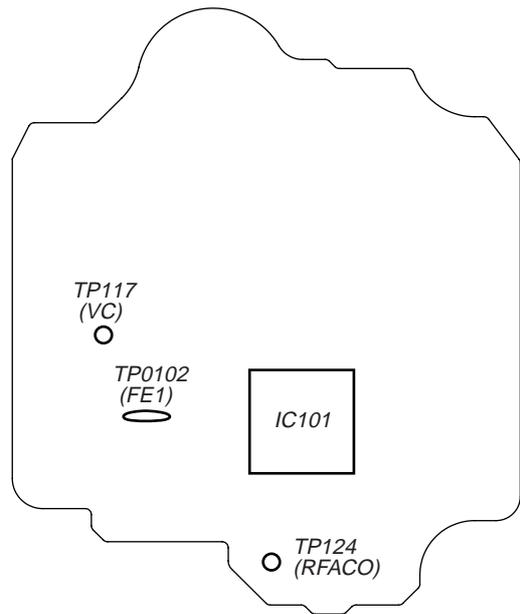
1. Connect oscilloscope to TP124 (RFACO) and TP117 (VC).
2. Press the button to turn the power ON.
3. Load a disc (YEDS-18) and playback.
4. Confirm that oscilloscope waveform is clear and check RFAC signal level is correct or not.

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



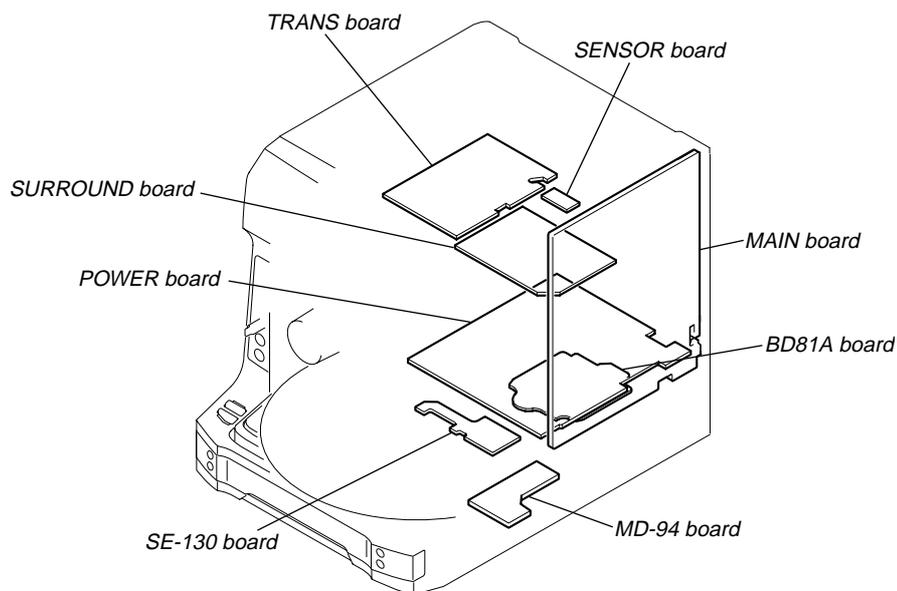
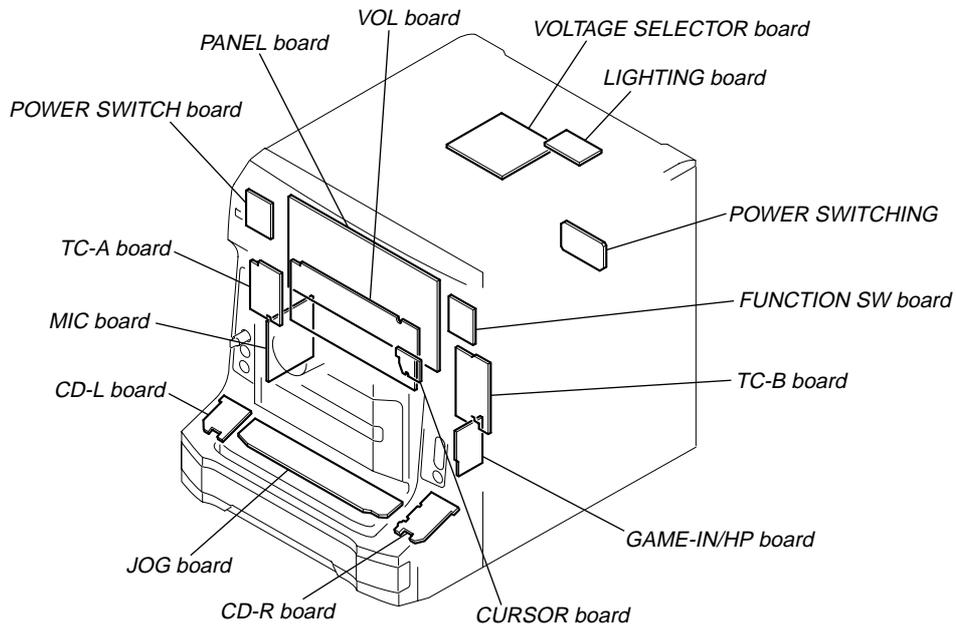
Checking Location:

【BD81A BOARD】(SIDE B)

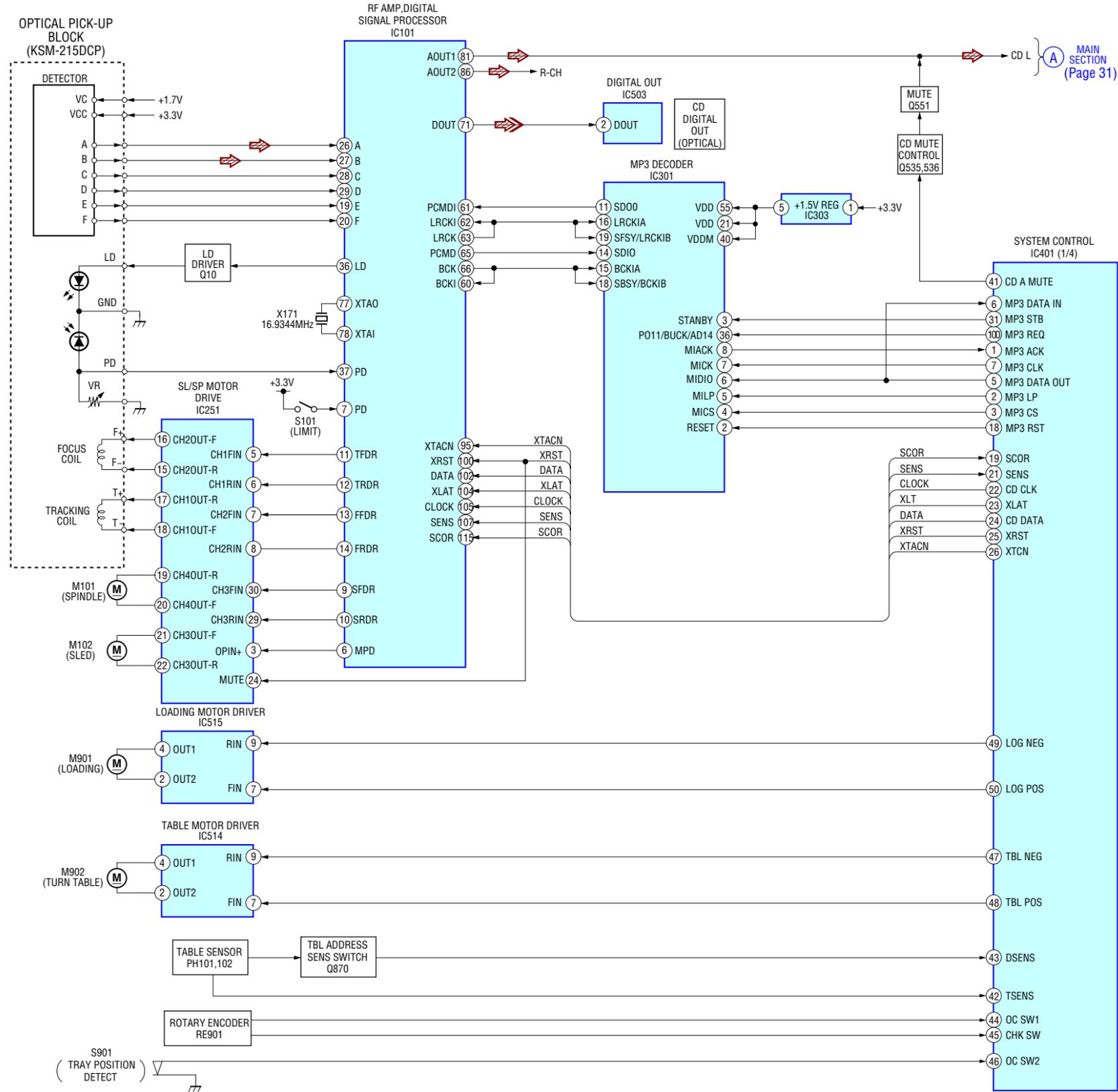


SECTION 7 DIAGRAMS

7-1. CIRCUIT BOARDS LOCATION

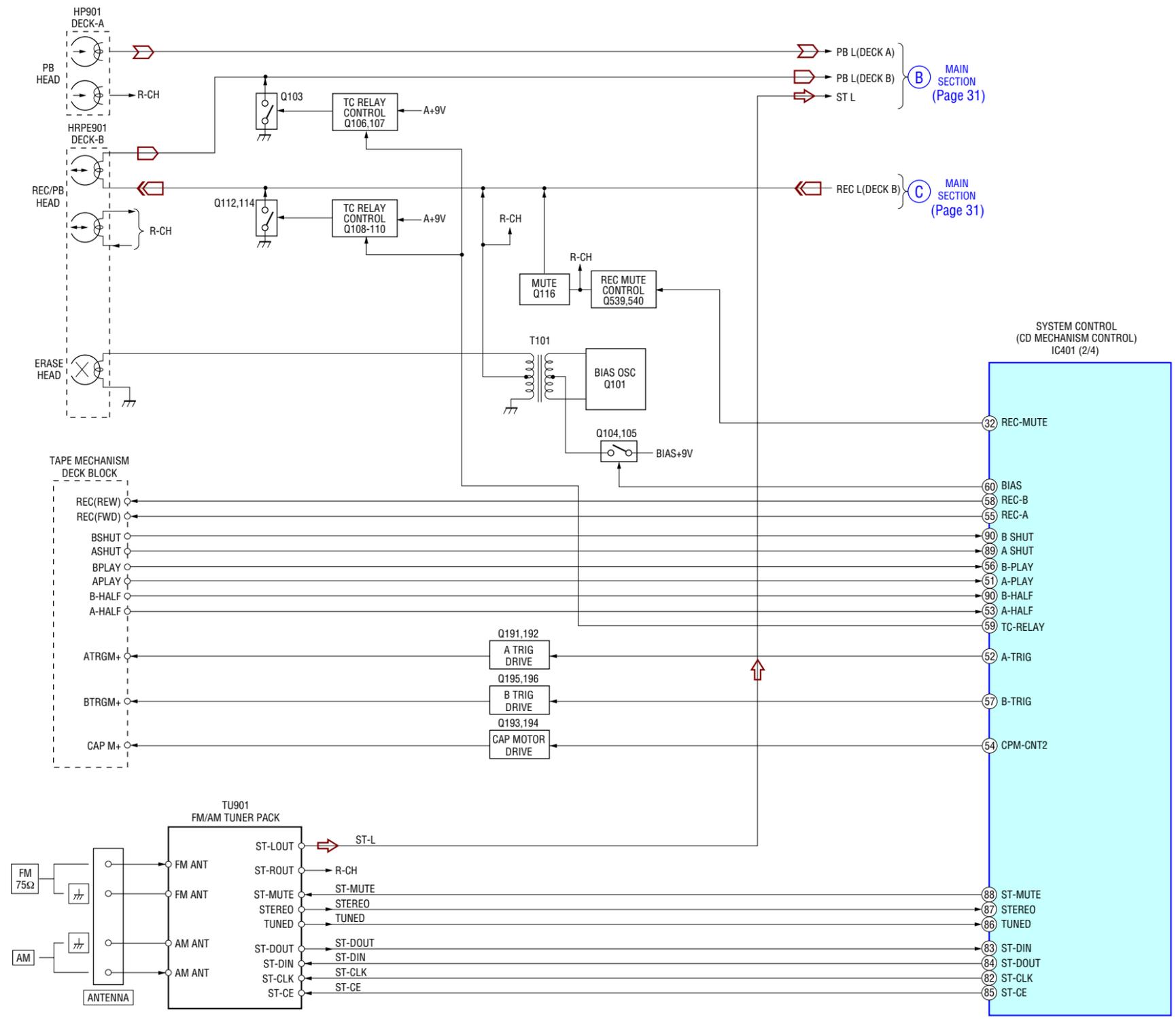


7-2. BLOCK DIAGRAM — CD SERVO SECTION —



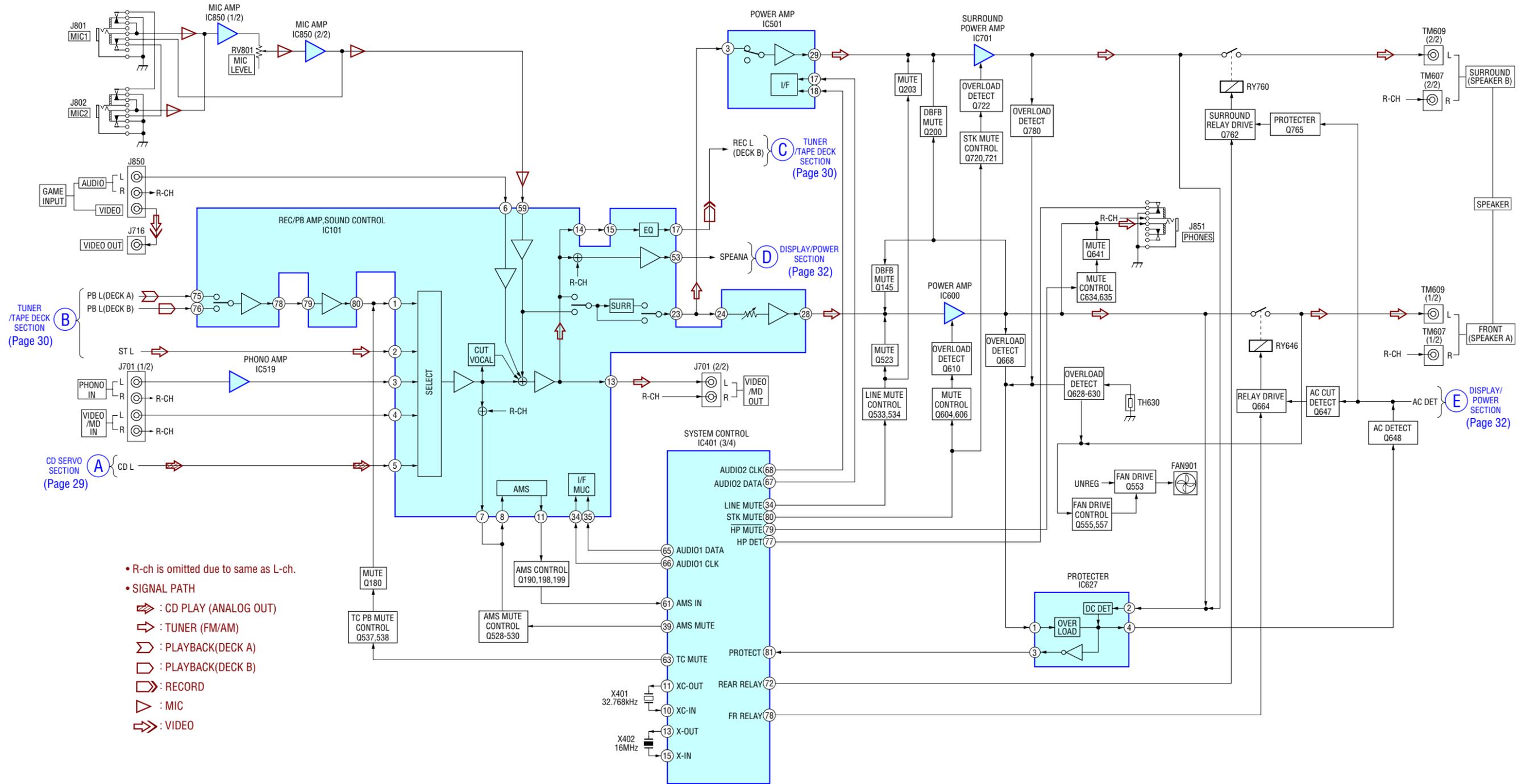
- R-ch is omitted due to same as L-ch.
- SIGNAL PATH
- ⇒ : CD PLAY(ANALOG OUT)
- ⇒ : CD PLAY(DIGITAL OUT)

7-3. BLOCK DIAGRAM — TUNER/TAPE DECK SECTION —

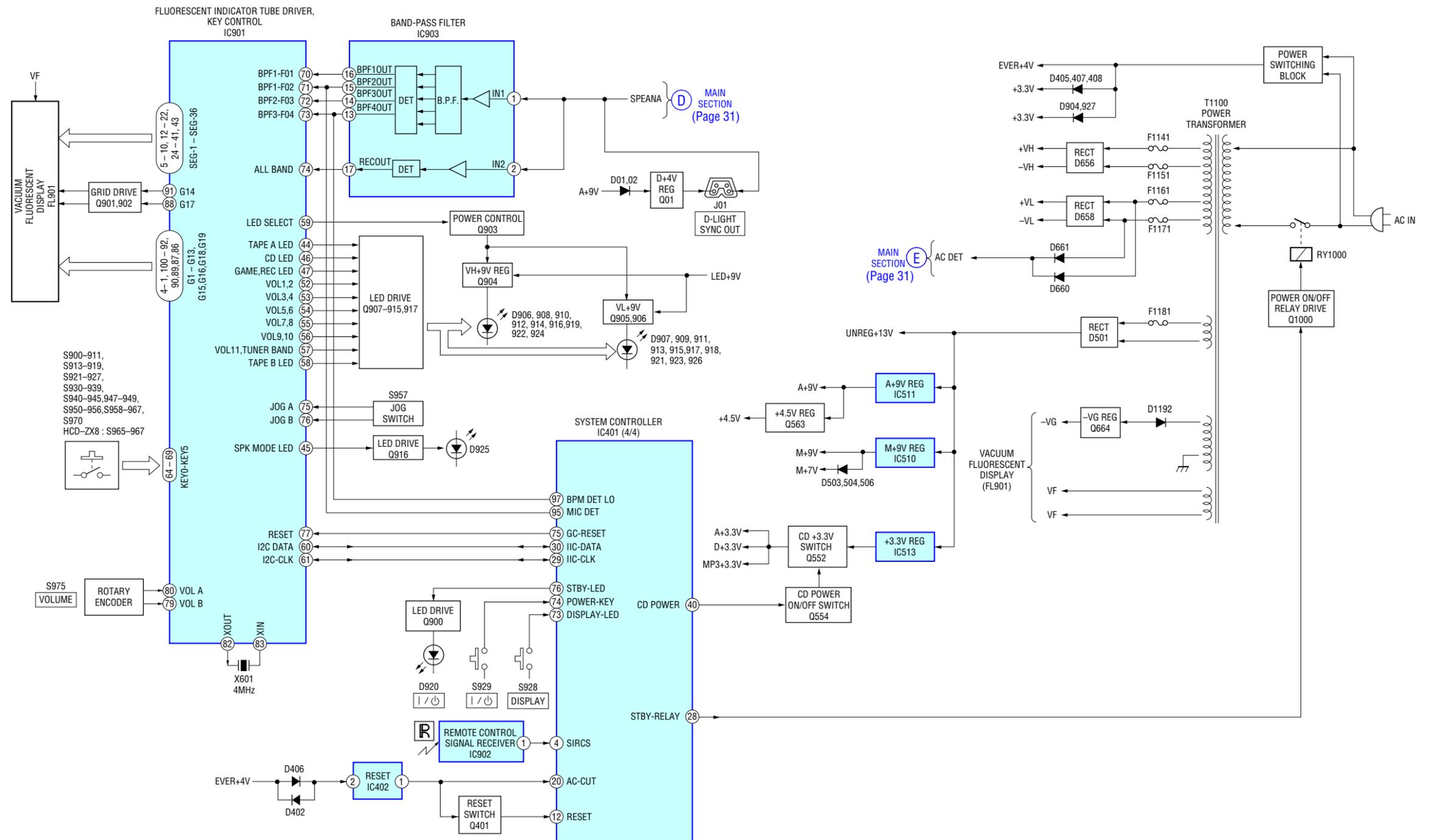


- R-ch is omitted due to same as L-ch.
- SIGNAL PATH
 - ⇨ : TUNER(FM/AM)
 - ⇨ : PLAYBACK(DECK A)
 - ⇨ : PLAYBACK(DECK B)
 - ⇨ : RECORD

7-4. BLOCK DIAGRAM — MAIN SECTION —



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



• NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

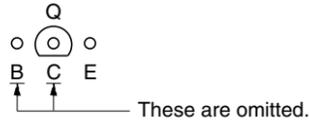
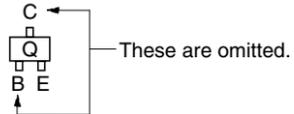
Note on Printed Wiring Board:

- : 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
MX : Mexican model.

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 : FM
- < > : CD PLAY
- * : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
- : AUDIO
- : VIDEO
- : TUNER
- : TAPE PLAY (DECK A)
- : TAPE PLAY (DECK B)
- : TAPE REC (DECK B)
- : CD PLAY (ANALOG OUT)
- : CD PLAY (DIGITAL OUT)
- Abbreviation
MX : Mexican 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)

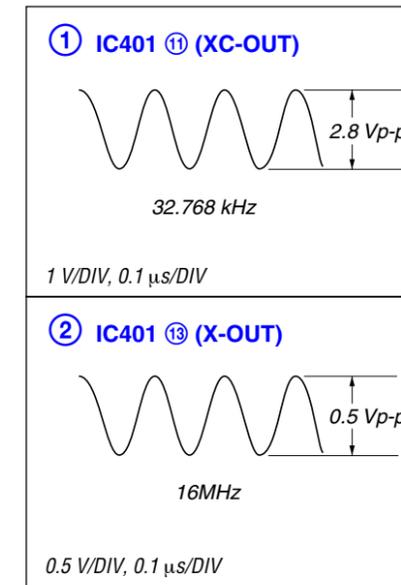
LF : LEAD FREE MARK

Unleaded solder has the following characteristics.

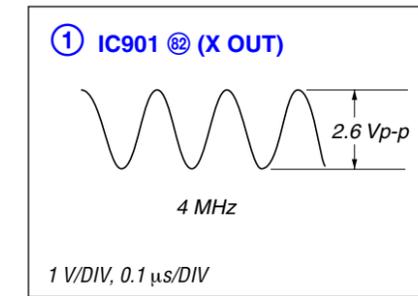
- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.
Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
Soldering irons using a temperature regulator should be set to about 350 °C.
Caution: The printed pattern (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.

• WAVEFORMS

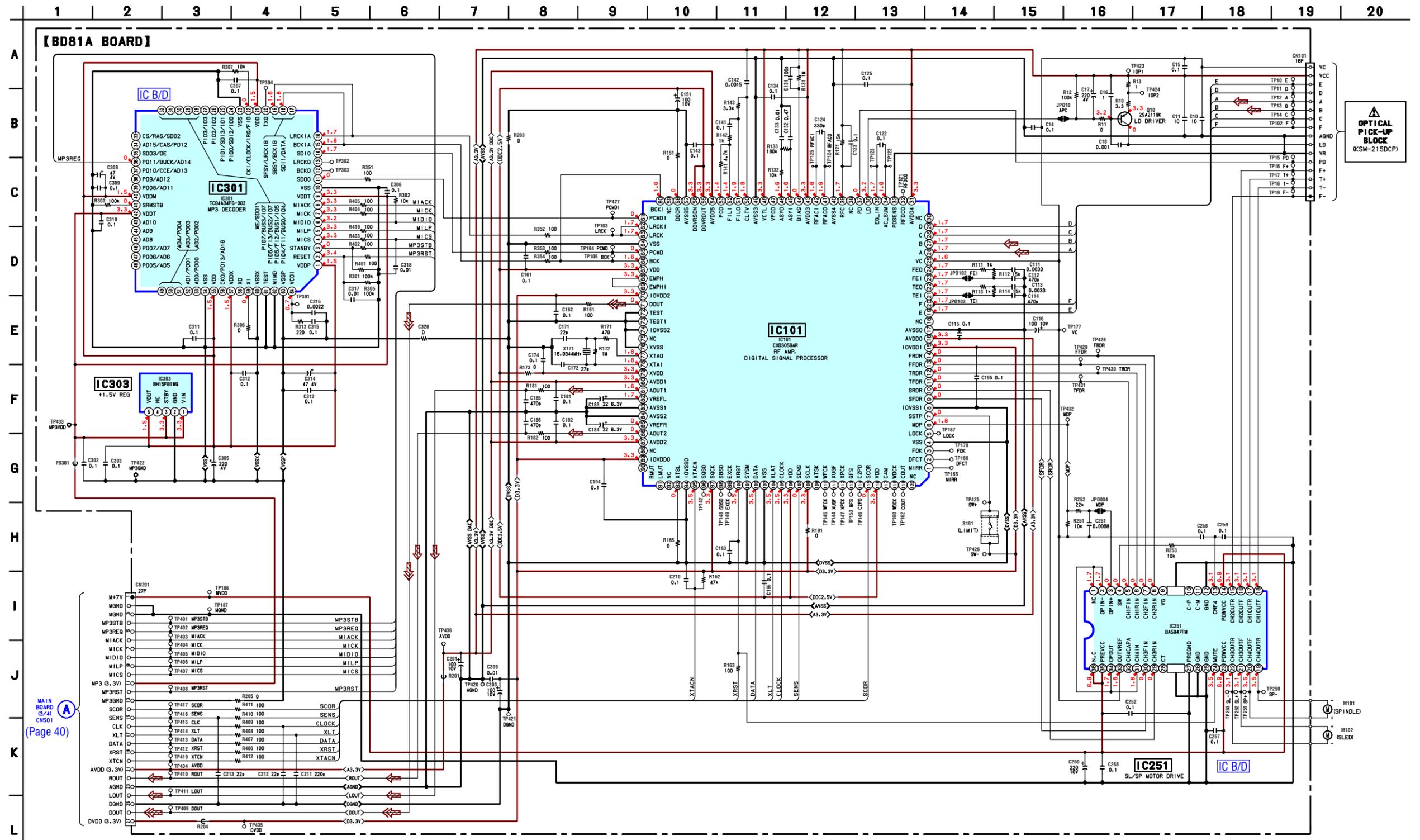
— MAIN Board —



— PANEL Board —



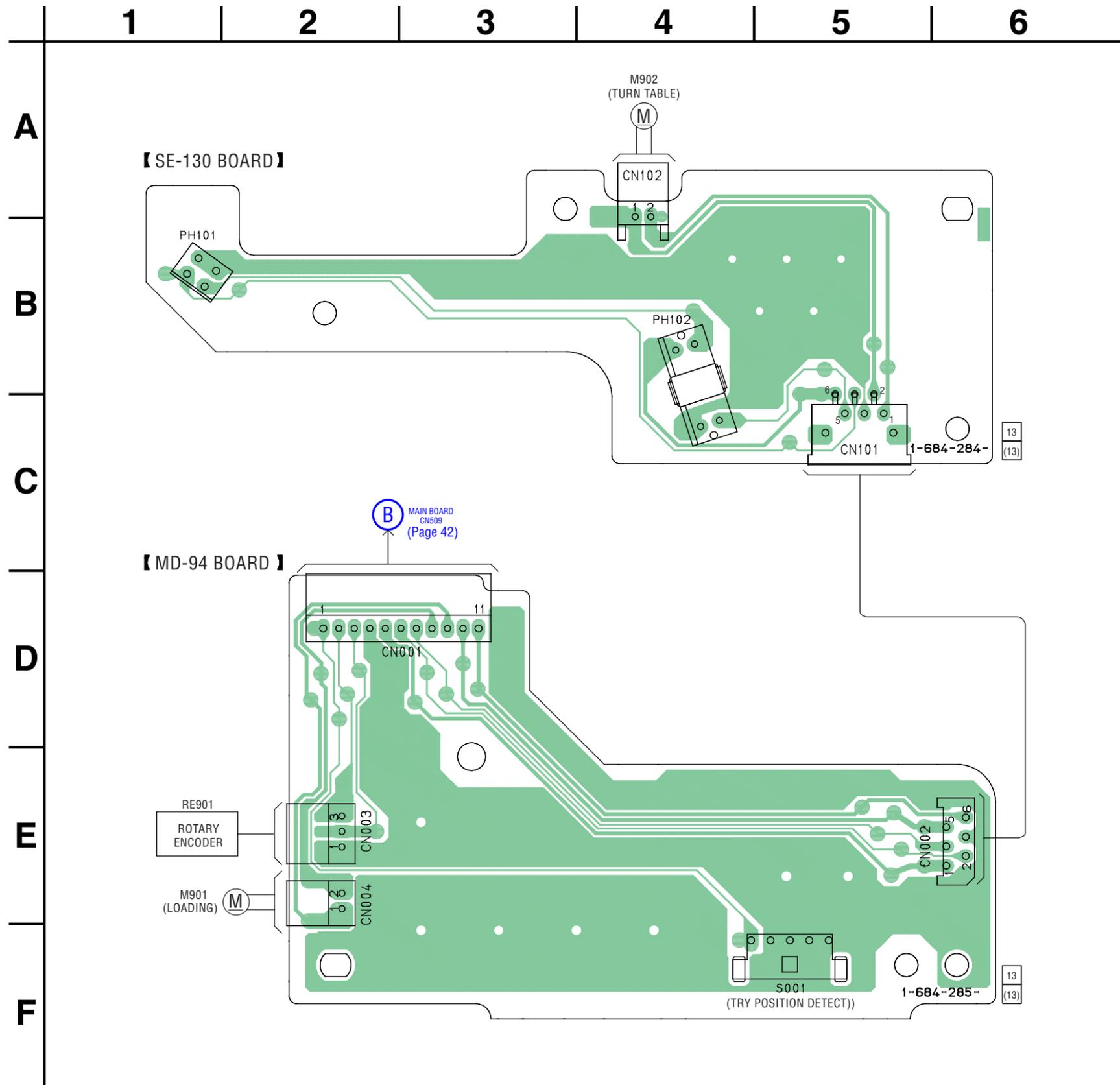
7-7. SCHEMATIC DIAGRAM — BD SECTION —
 • Refer to page 61 for IC Block Diagrams.
 • Refer to page 63 for IC Pin Description of IC101.



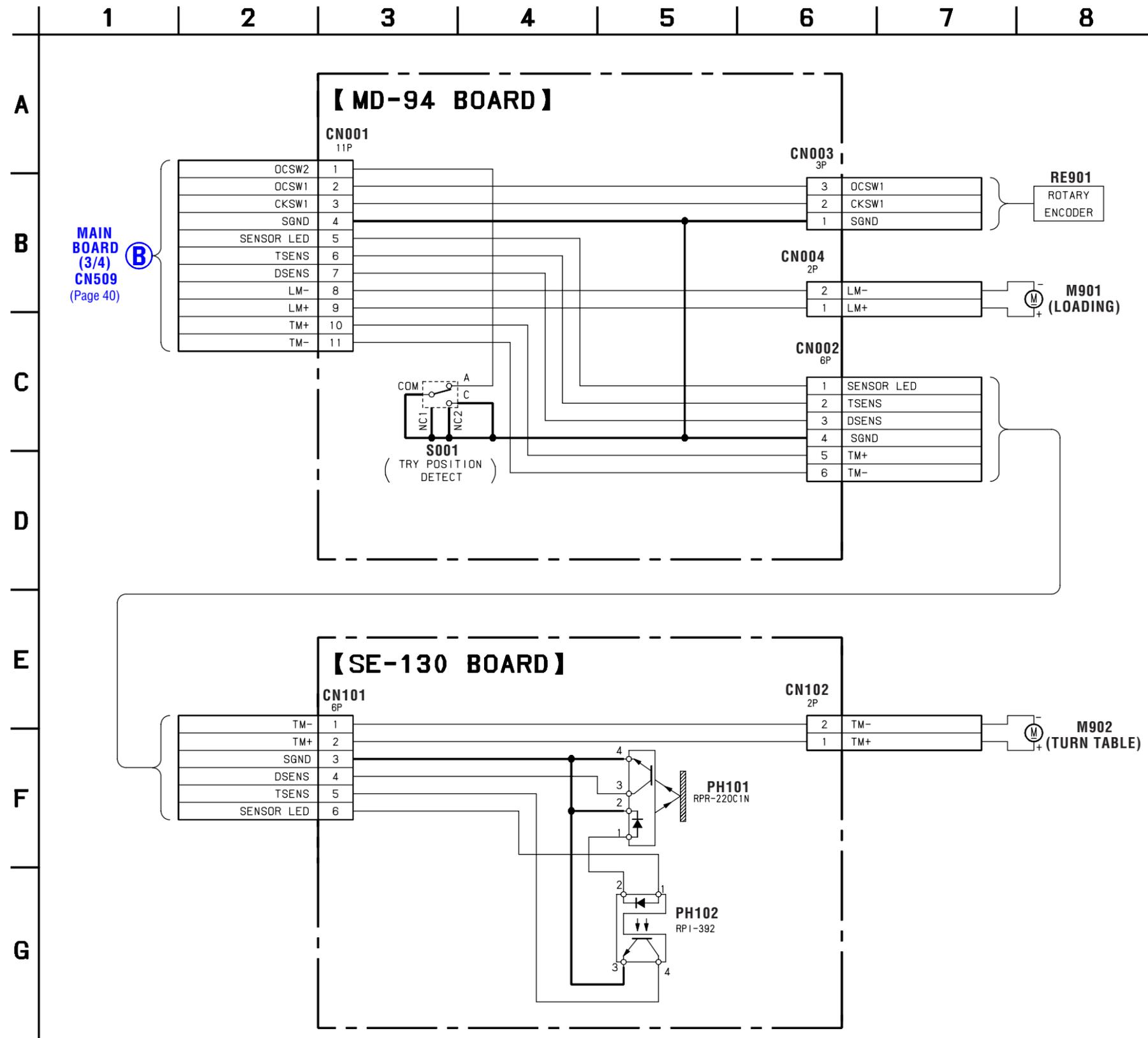
OPTICAL PICK-UP BLOCK (KSM-215DCP)

MAIN BOARD (S/4) CN501 (Page 40)

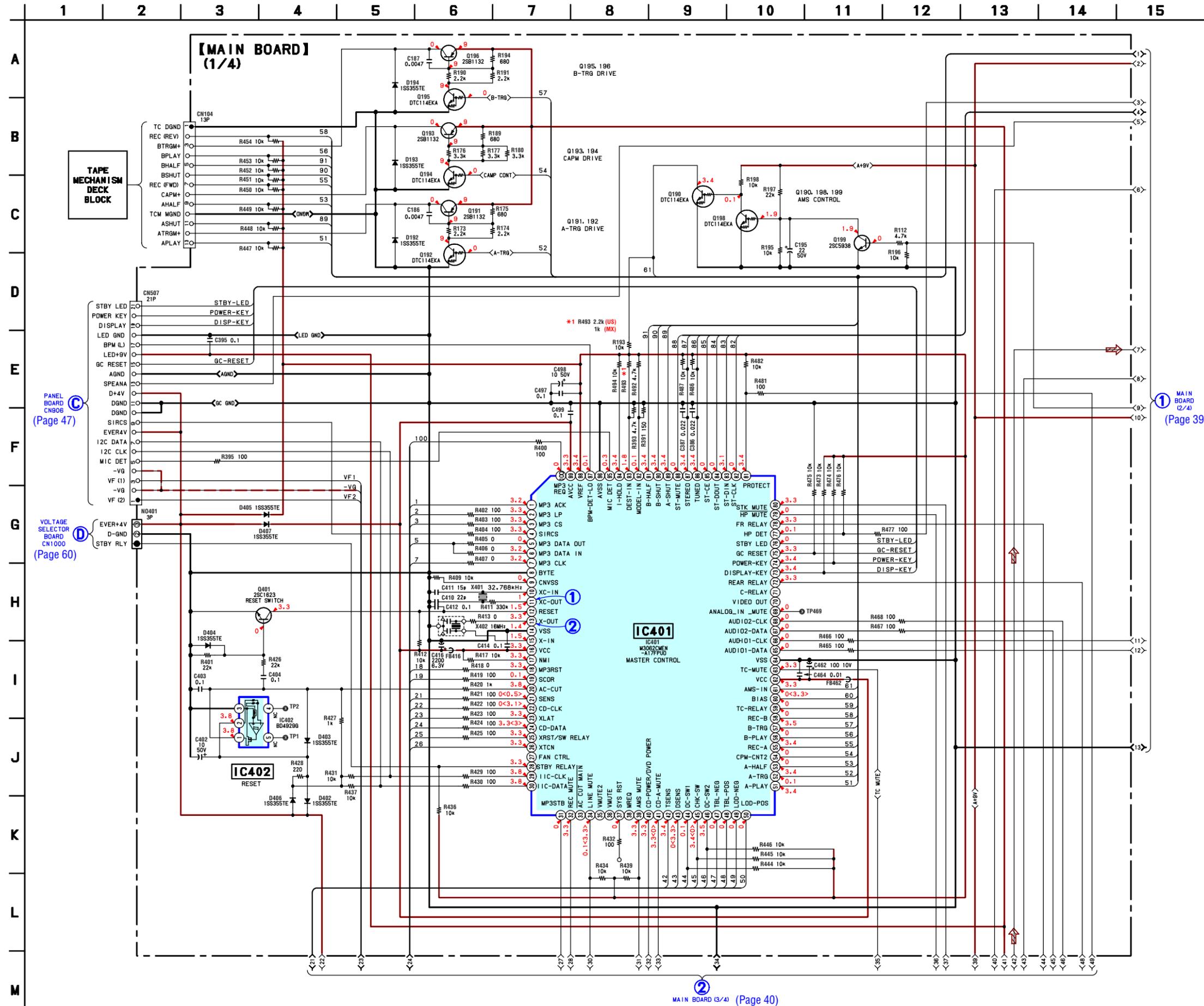
7-8. PRINTED WIRING BOARDS — LOADING SECTION — • Refer to page 28 for Circuit Boards Location. **LF** : Uses unleaded solder.



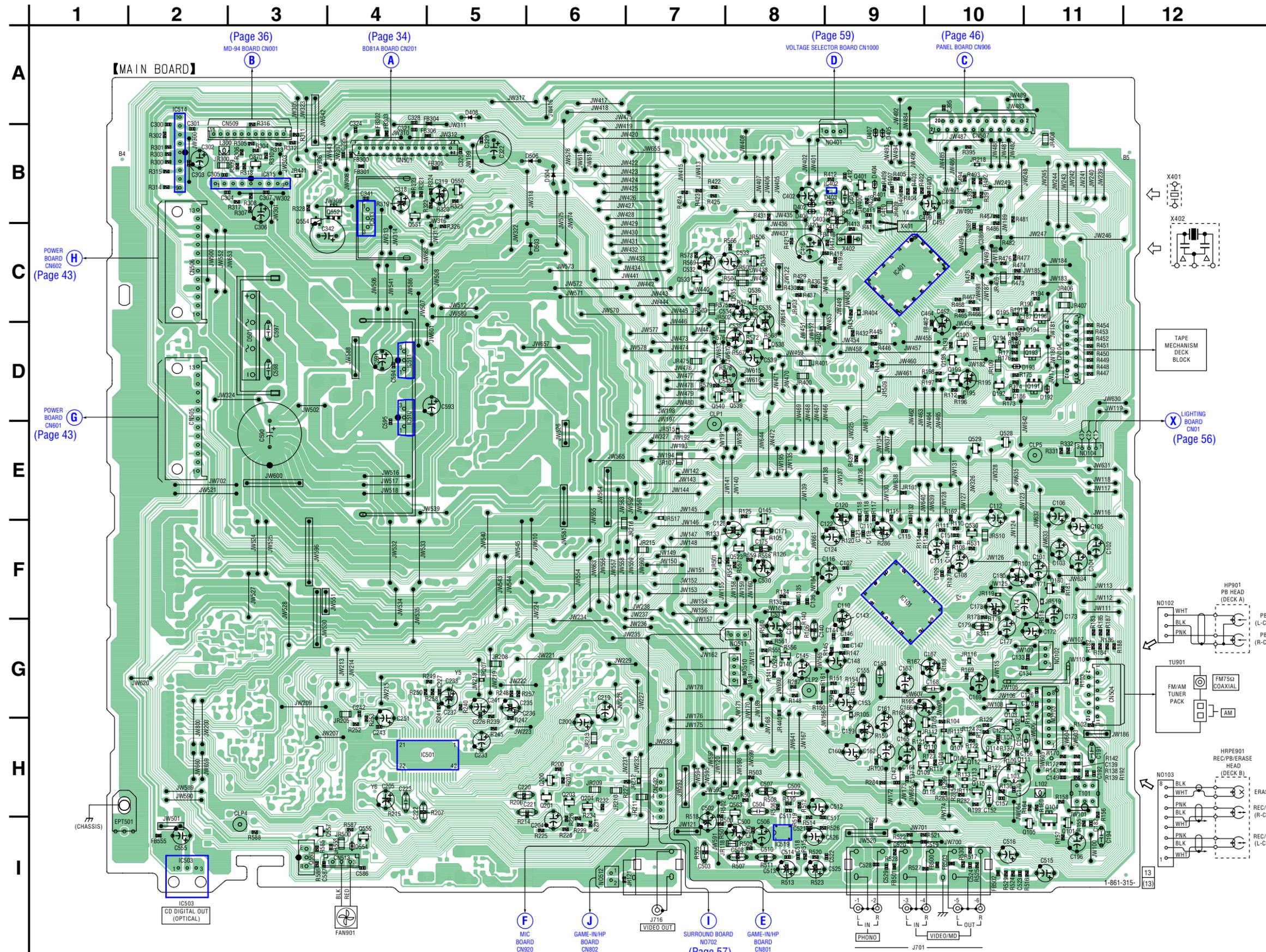
7-9. SCHEMATIC DIAGRAM — LOADING SECTION —



7-10. SCHEMATIC DIAGRAM — MAIN SECTION (1/4) — • Refer to page 33 for Waveforms. • Refer to page 66 for IC Pin Description of IC401.



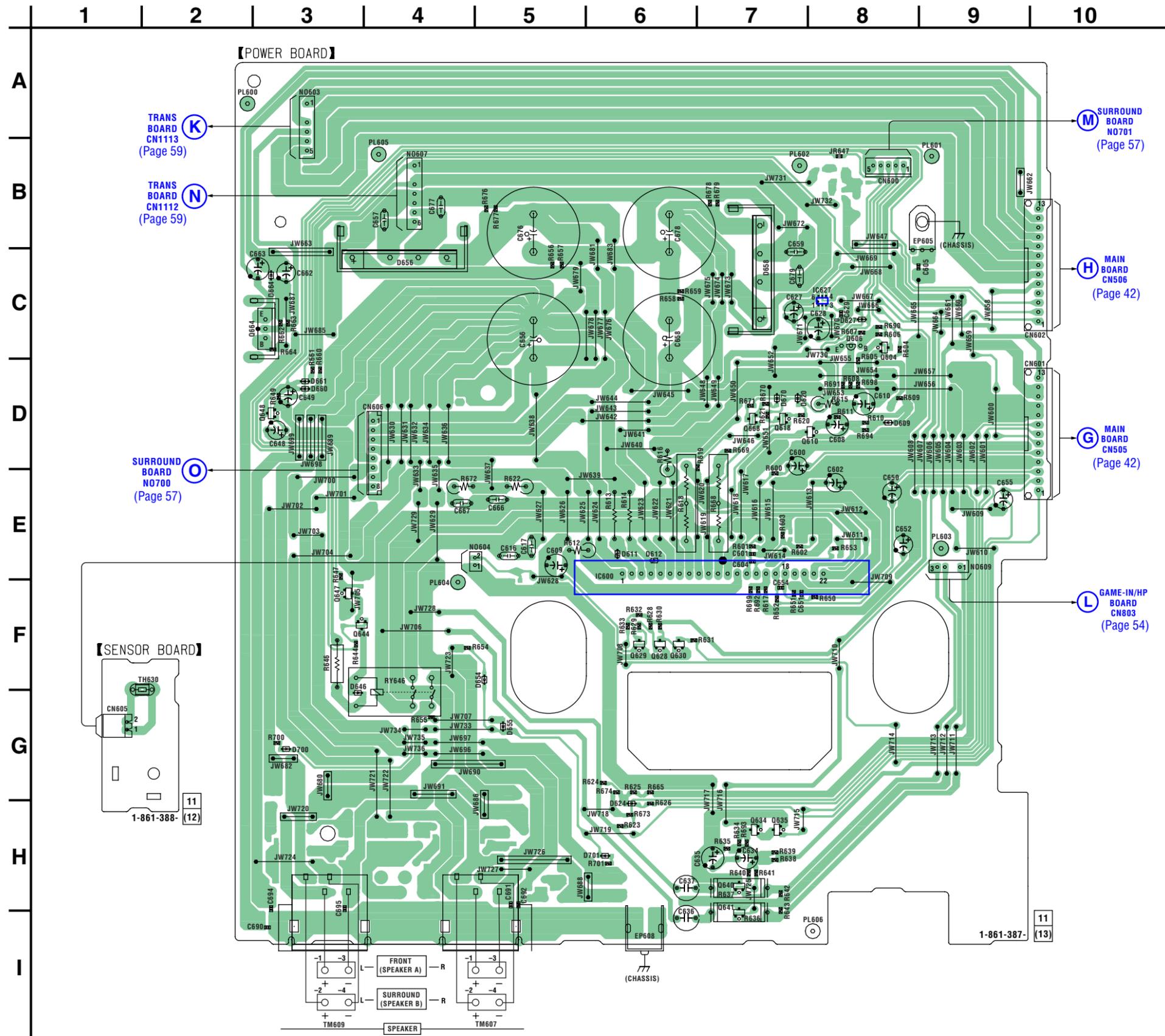
7-14. PRINTED WIRING BOARD — MAIN SECTION — • Refer to page 28 for Circuit Boards Location.  : Uses unleaded solder.



• Semiconductor Location

Ref. No.	Location
D192	D-11
D193	D-10
D194	C-10
D402	B-8
D403	B-9
D404	B-9
D405	B-9
D406	B-8
D407	B-9
D408	A-5
D501	D-3
D503	C-6
D504	B-6
D506	B-6
D554	I-4
IC101	F-9
IC401	C-9
IC402	B-9
IC501	H-5
IC503	I-2
IC510	E-4
IC511	D-4
IC513	B-4
IC514	B-2
IC515	B-3
IC519	I-8
Q101	H-11
Q102	G-10
Q103	G-10
Q104	H-11
Q105	H-11
Q106	H-10
Q107	H-10
Q108	H-10
Q109	H-10
Q110	H-10
Q111	G-10
Q112	H-10
Q113	H-10
Q114	H-10
Q115	H-10
Q116	H-10
Q140	G-8
Q145	E-8
Q165	G-10
Q180	F-11
Q190	D-10
Q191	D-11
Q192	D-10
Q193	D-11
Q194	D-10
Q195	C-10
Q196	C-11
Q198	D-10
Q199	D-10
Q200	H-6
Q201	H-6
Q203	H-6
Q204	H-6
Q401	B-9
Q523	F-8
Q524	G-8
Q528	E-10
Q529	E-10
Q530	E-10
Q533	C-7
Q534	C-8
Q535	C-8
Q536	C-8
Q537	C-8
Q538	D-8
Q539	D-8
Q540	D-7
Q550	B-5
Q551	B-4
Q552	B-4
Q553	I-3
Q554	B-3
Q555	I-4
Q557	I-4
Q563	H-8
Q870	B-3

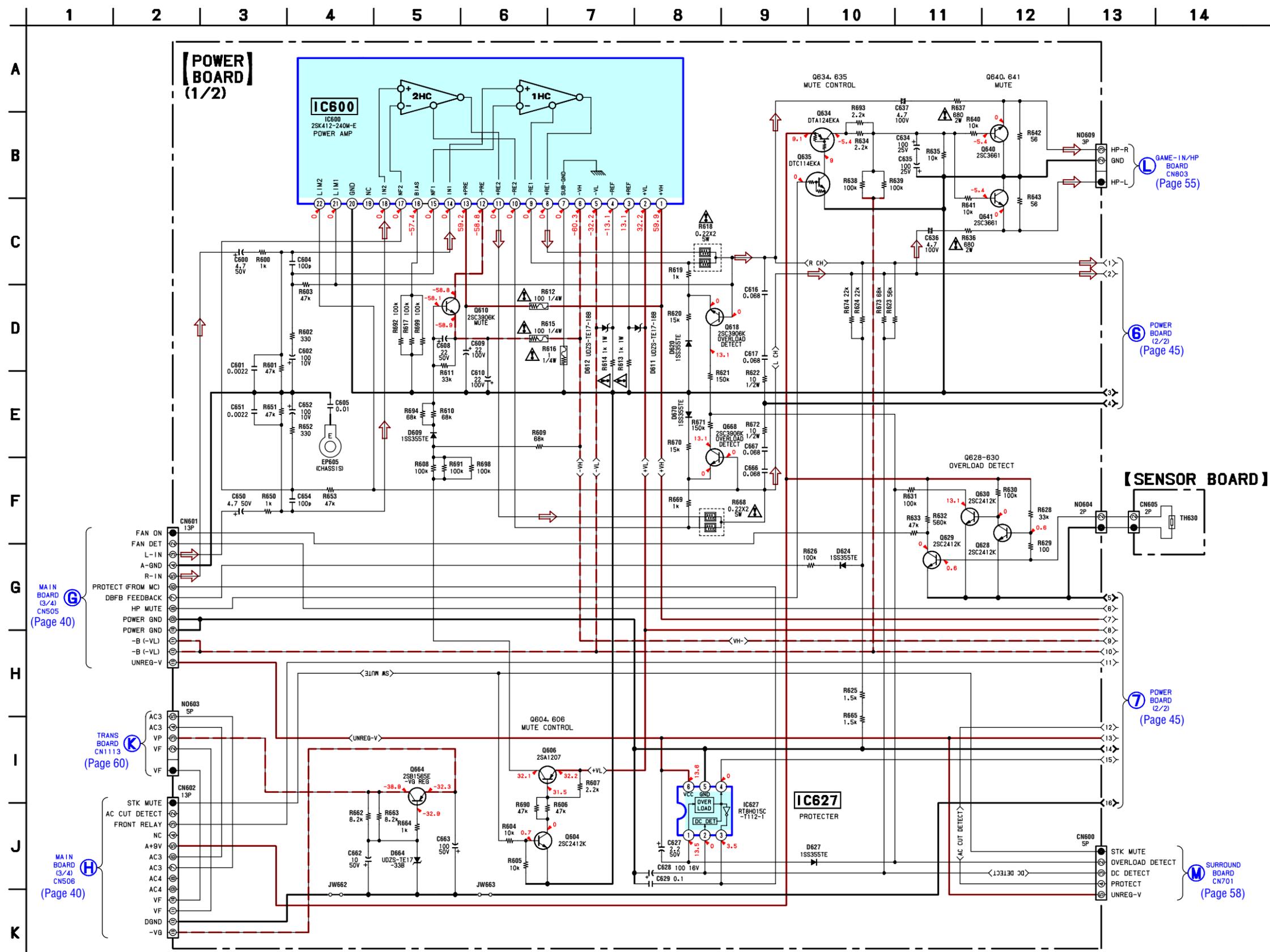
7-15. PRINTED WIRING BOARDS — POWER SECTION — • Refer to page 28 for Circuit Boards Location.  : Uses unleaded solder.



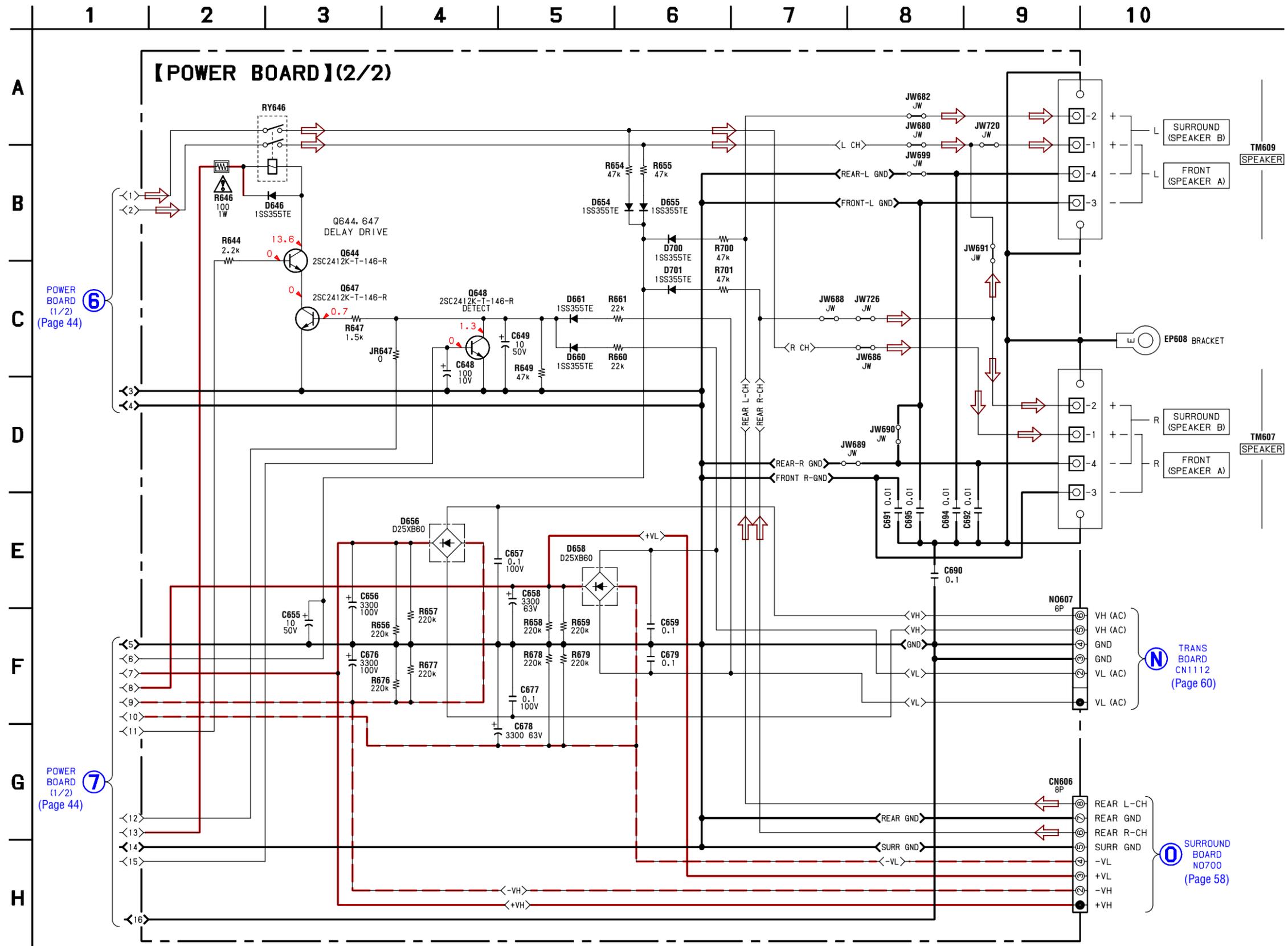
• Semiconductor Location

Ref. No.	Location
D609	D-8
D611	E-6
D612	E-6
D620	D-7
D624	H-6
D627	C-8
D646	F-3
D654	F-5
D655	G-5
D656	C-4
D658	C-7
D660	D-3
D661	D-3
D664	C-3
D670	D-7
D700	G-3
D701	H-6
IC600	E-6
IC627	C-8
Q604	C-8
Q606	C-8
Q610	D-8
Q618	D-7
Q628	F-6
Q629	F-6
Q630	F-6
Q634	H-7
Q635	H-7
Q640	H-7
Q641	H-7
Q644	F-3
Q647	F-3
Q648	D-3
Q664	C-3
Q668	D-7

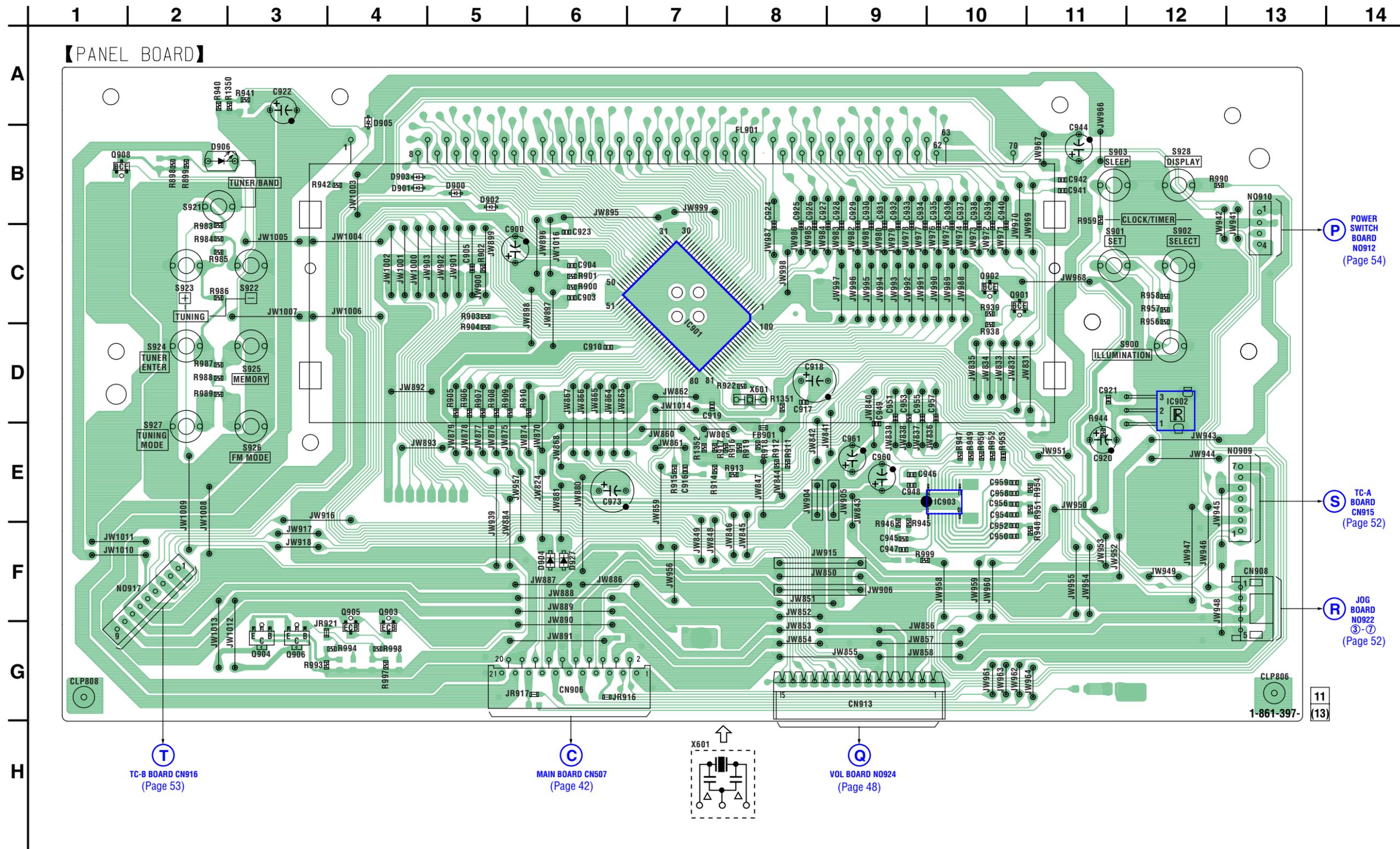
7-16. SCHEMATIC DIAGRAM — POWER SECTION (1/2) —



7-17. SCHEMATIC DIAGRAM — POWER SECTION (2/2) —



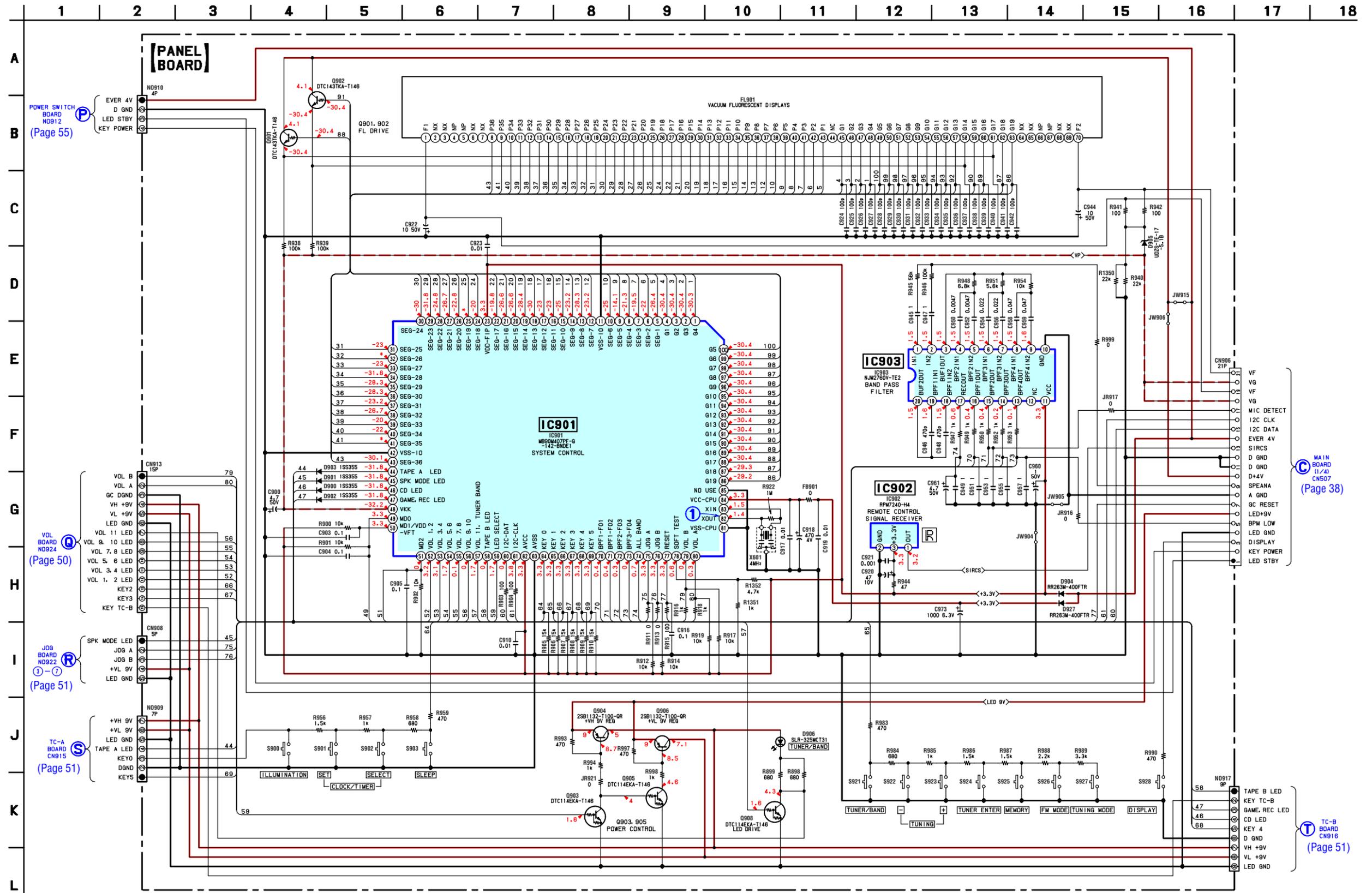
7-18. PRINTED WIRING BOARD — PANEL SECTION — • Refer to page 28 for Circuit Boards Location.  : Uses unleaded solder.



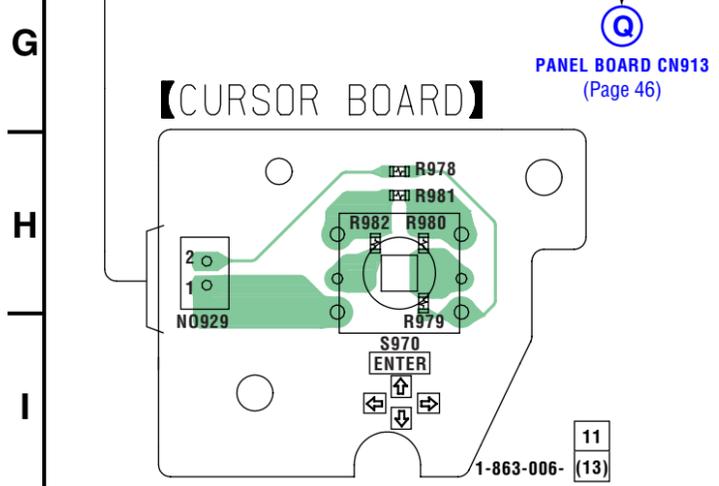
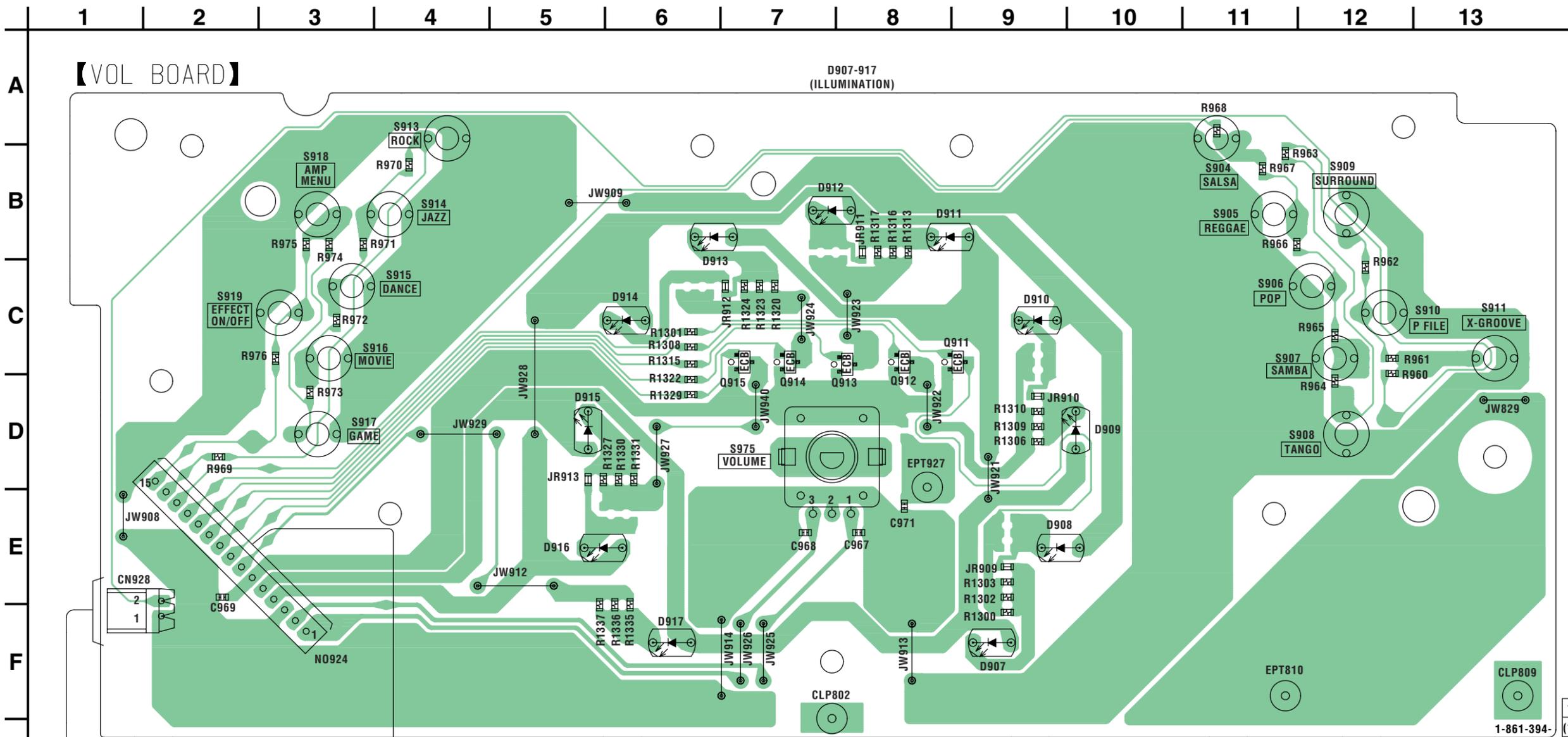
• Semiconductor Location

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D900	B-5	D927	F-6	Q902	C-10
D901	B-4	IC901	D-7	Q903	G-4
D902	B-5	IC902	D-12	Q904	G-3
D903	B-4	IC903	E-10	Q905	G-4
D904	F-6			Q906	G-3
D905	A-4			Q908	B-1
D906	B-2				

7-19. SCHEMATIC DIAGRAM — PANEL SECTION — Refer to page 33 for Waveform. Refer to page 69 for IC Pin Description of IC901.



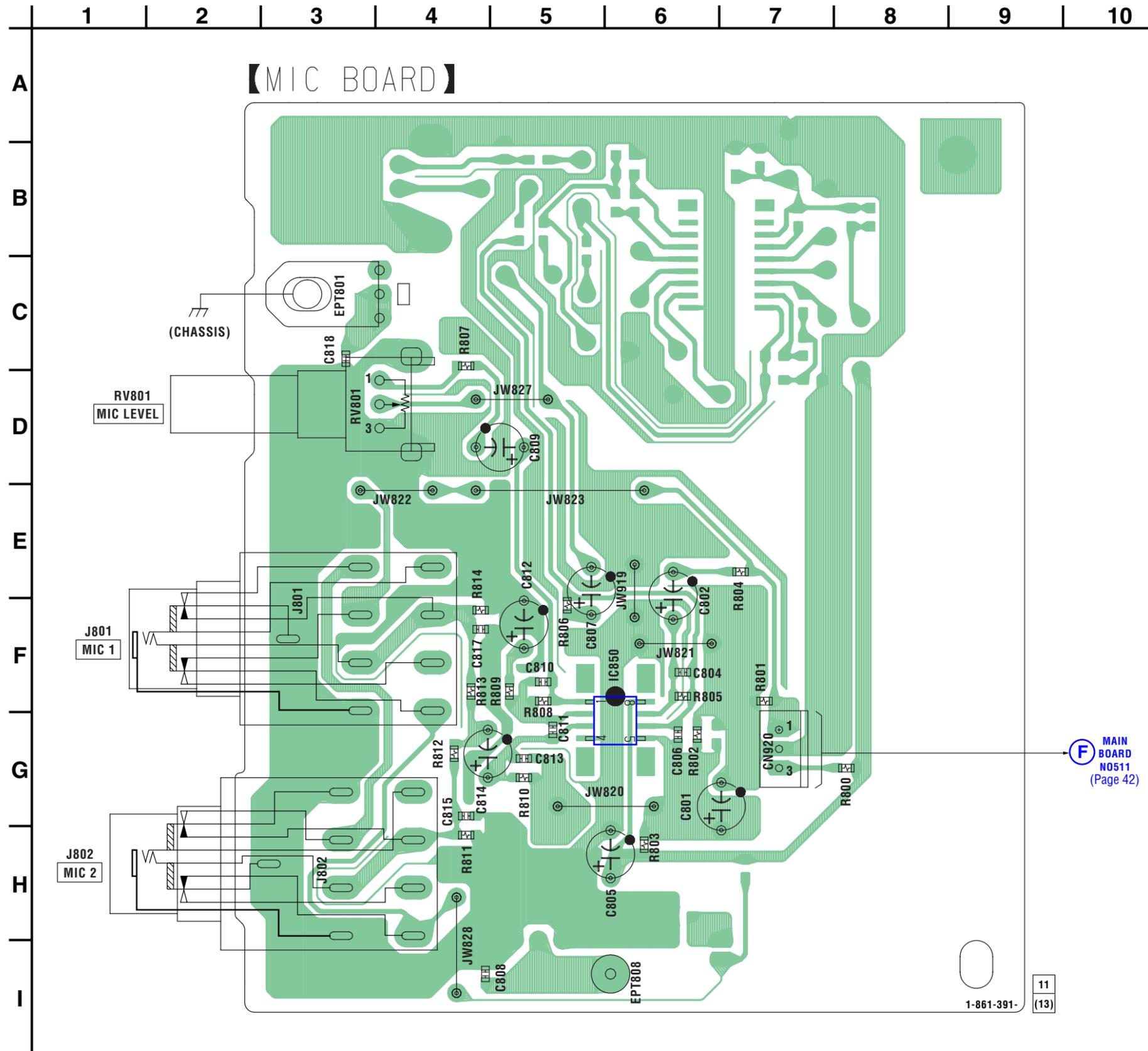
7-20. PRINTED WIRING BOARDS — VOLUME SECTION — • Refer to page 28 for Circuit Boards Location.  : Uses unleaded solder.



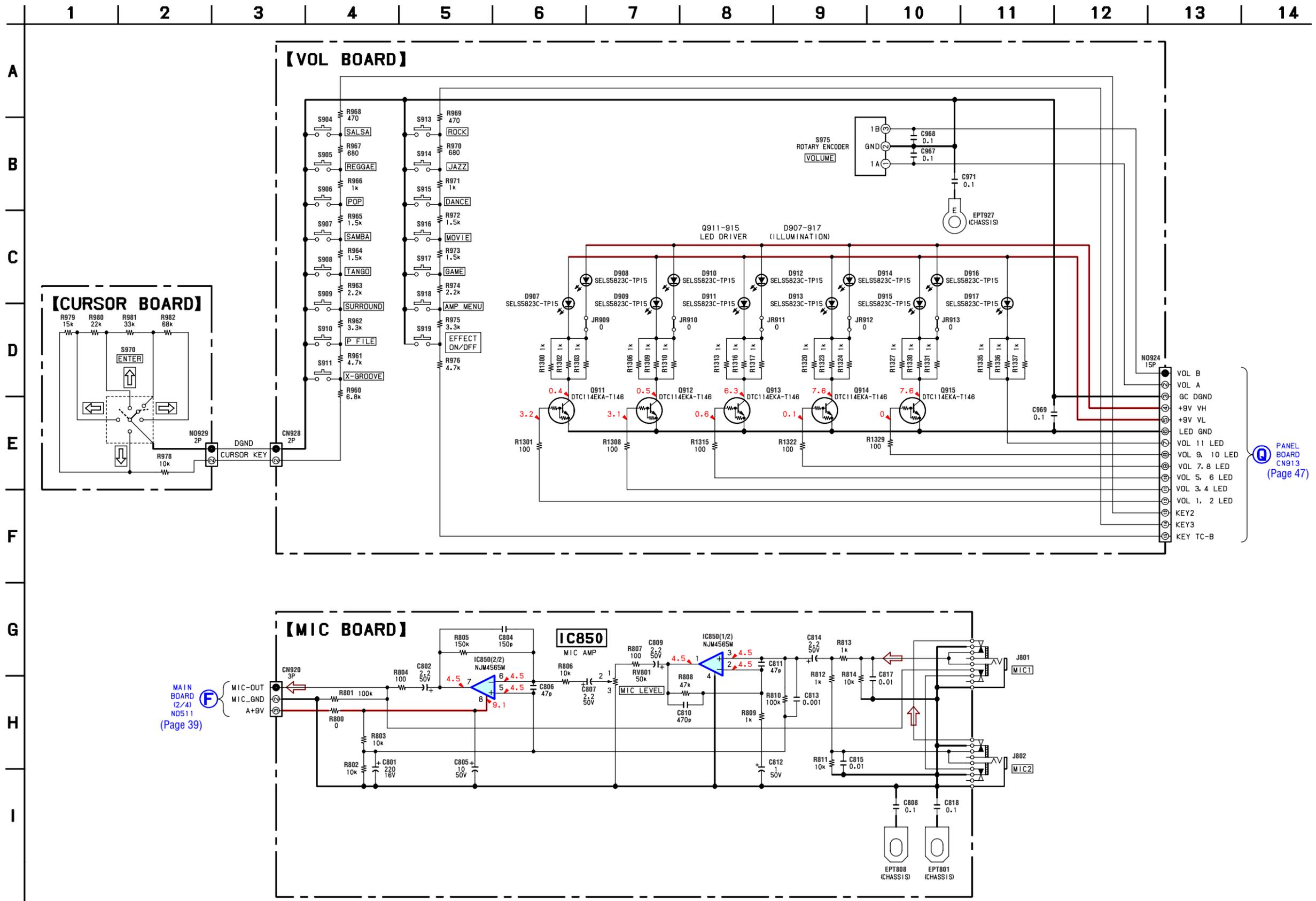
• Semiconductor Location

Ref. No.	Location
D907	F-9
D908	E-9
D909	D-10
D910	C-9
D911	B-8
D912	B-7
D913	B-6
D914	C-6
D915	D-5
D916	E-5
D917	F-6
Q911	C-9
Q912	C-8
Q913	C-8
Q914	C-7
Q915	C-7

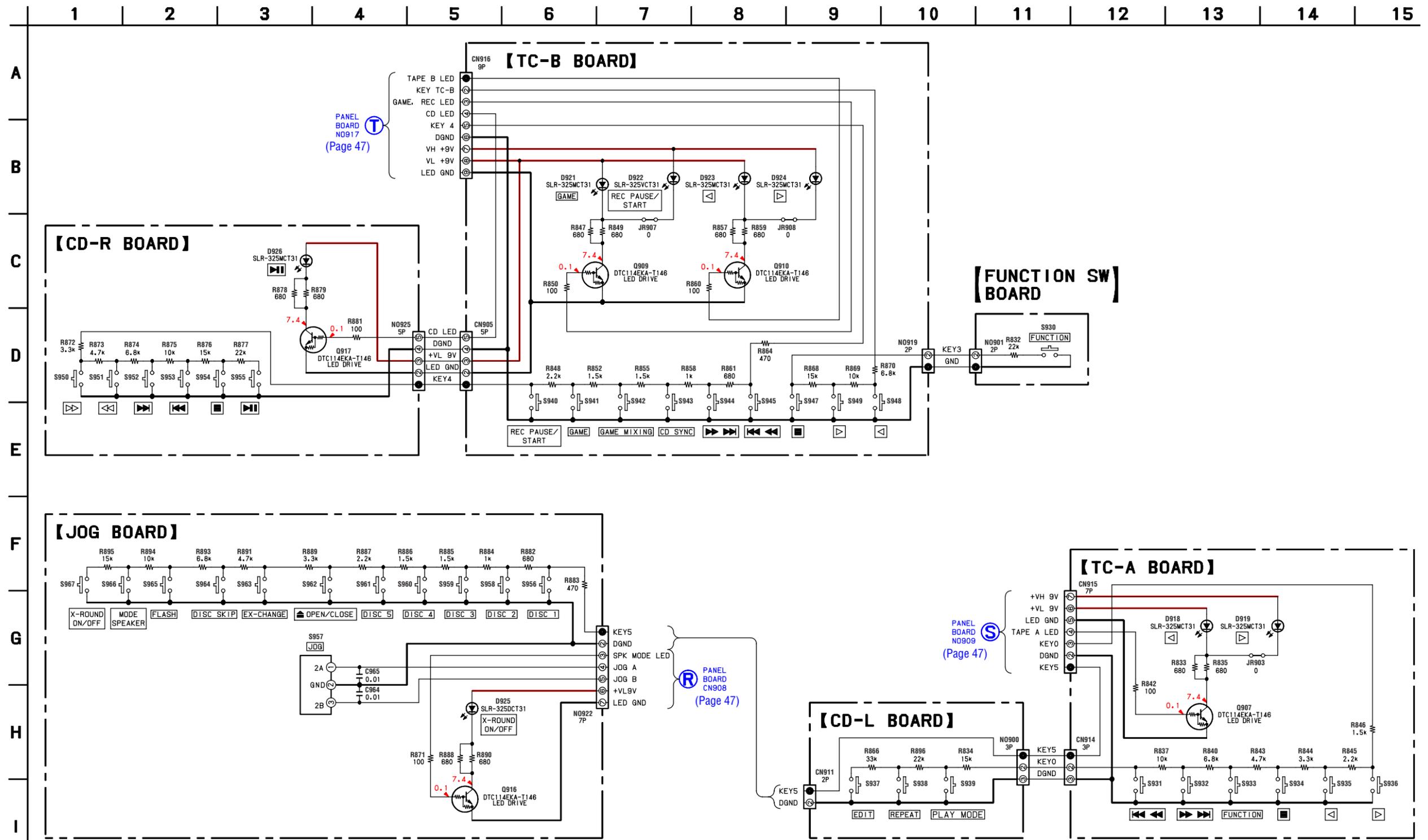
7-21. PRINTED WIRING BOARD — MIC SECTION — • Refer to page 28 for Circuit Boards Location.  : Uses unleaded solder.



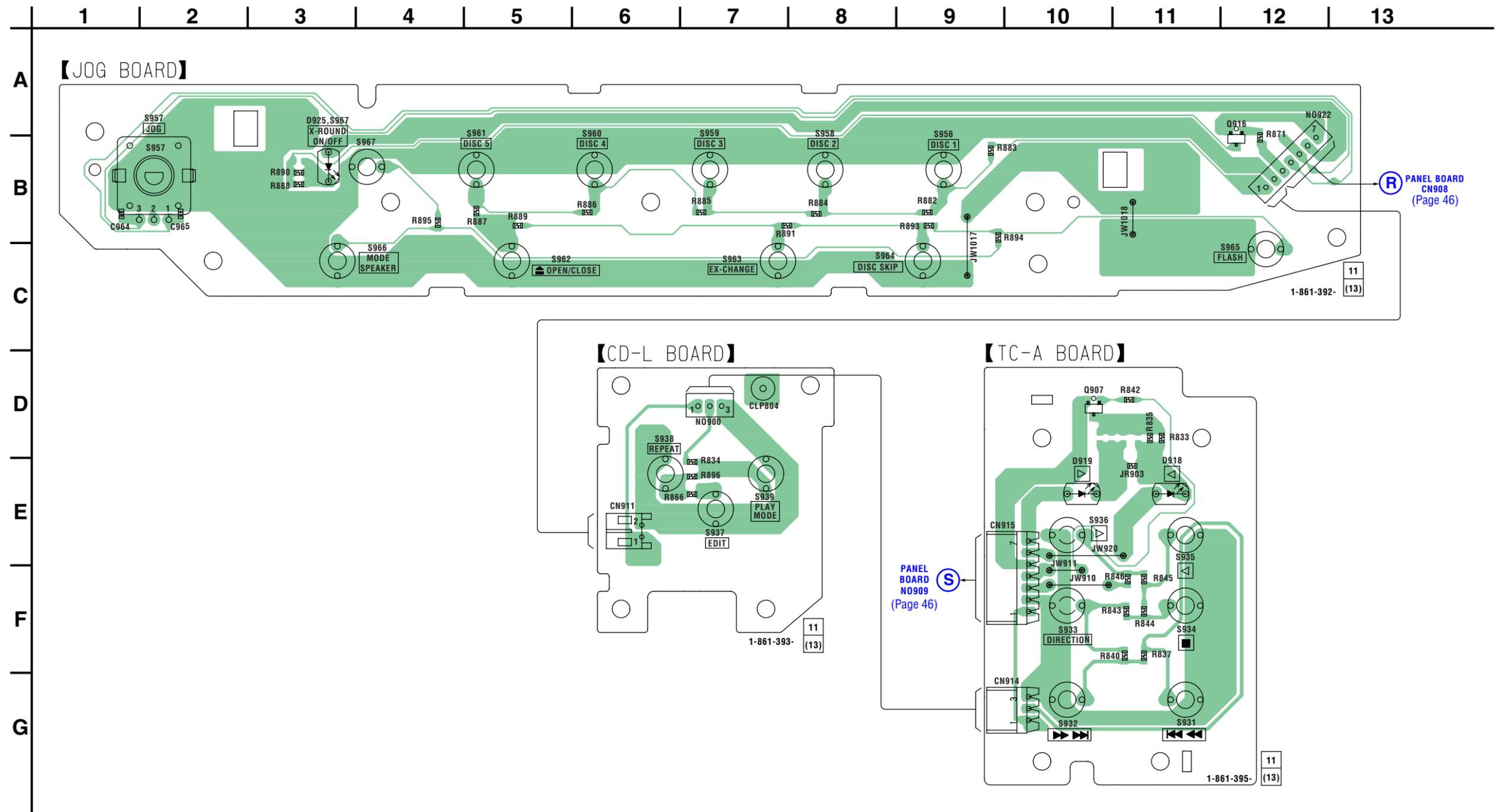
7-22. SCHEMATIC DIAGRAM — VOLUME, MIC SECTION —



7-23. SCHEMATIC DIAGRAM — SWITCH SECTION —



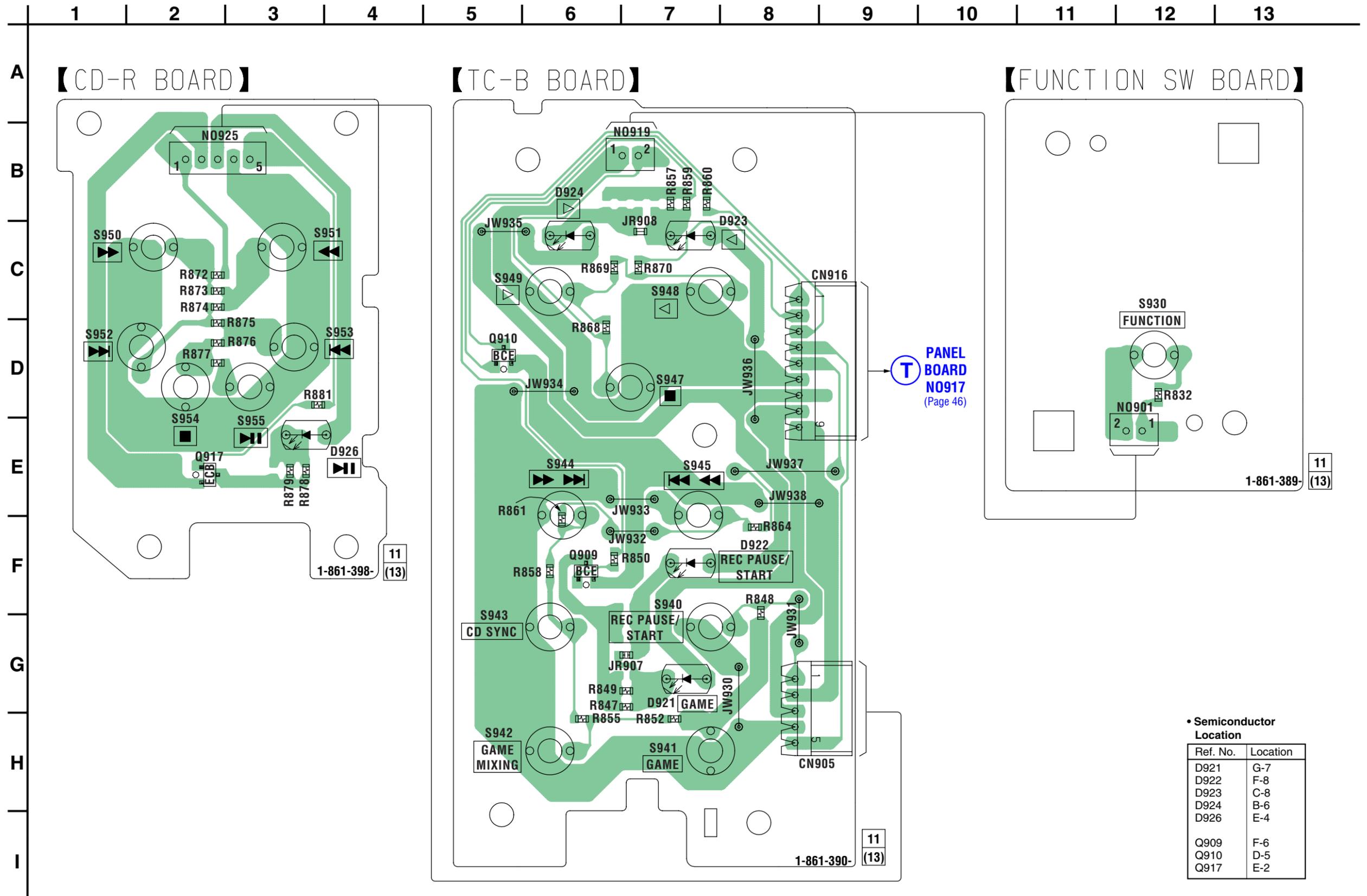
7-24. PRINTED WIRING BOARDS — SWITCH SECTION (1/2) — • Refer to page 28 for Circuit Boards Location.  : Uses unleaded solder.



• Semiconductor Location

Ref. No.	Location
D918	E-11
D919	E-10
D925	A-3
Q907	D-10
Q916	A-12

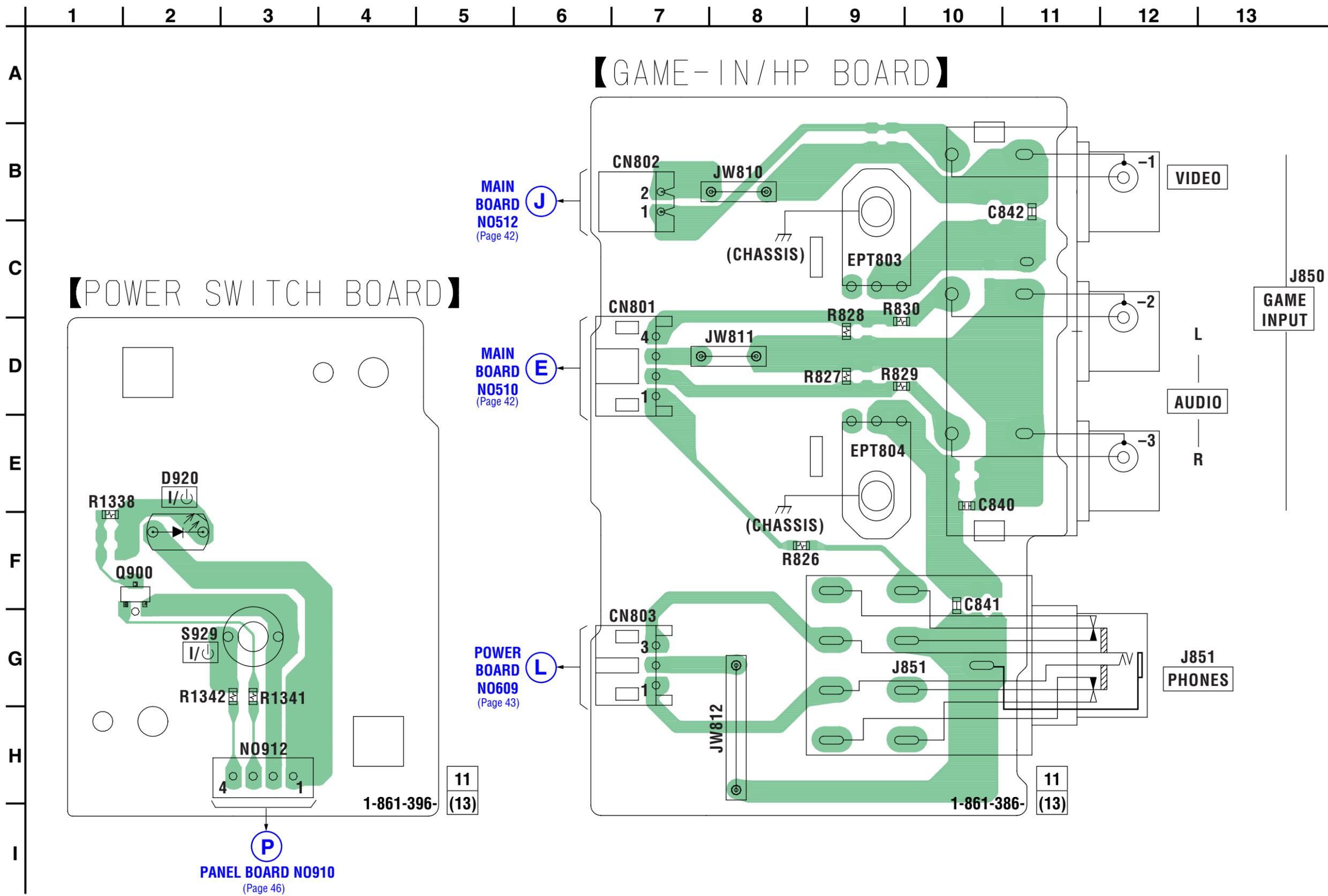
7-25. PRINTED WIRING BOARDS — SWITCH SECTION (2/2) — • Refer to page 28 for Circuit Boards Location.  : Uses unleaded solder.



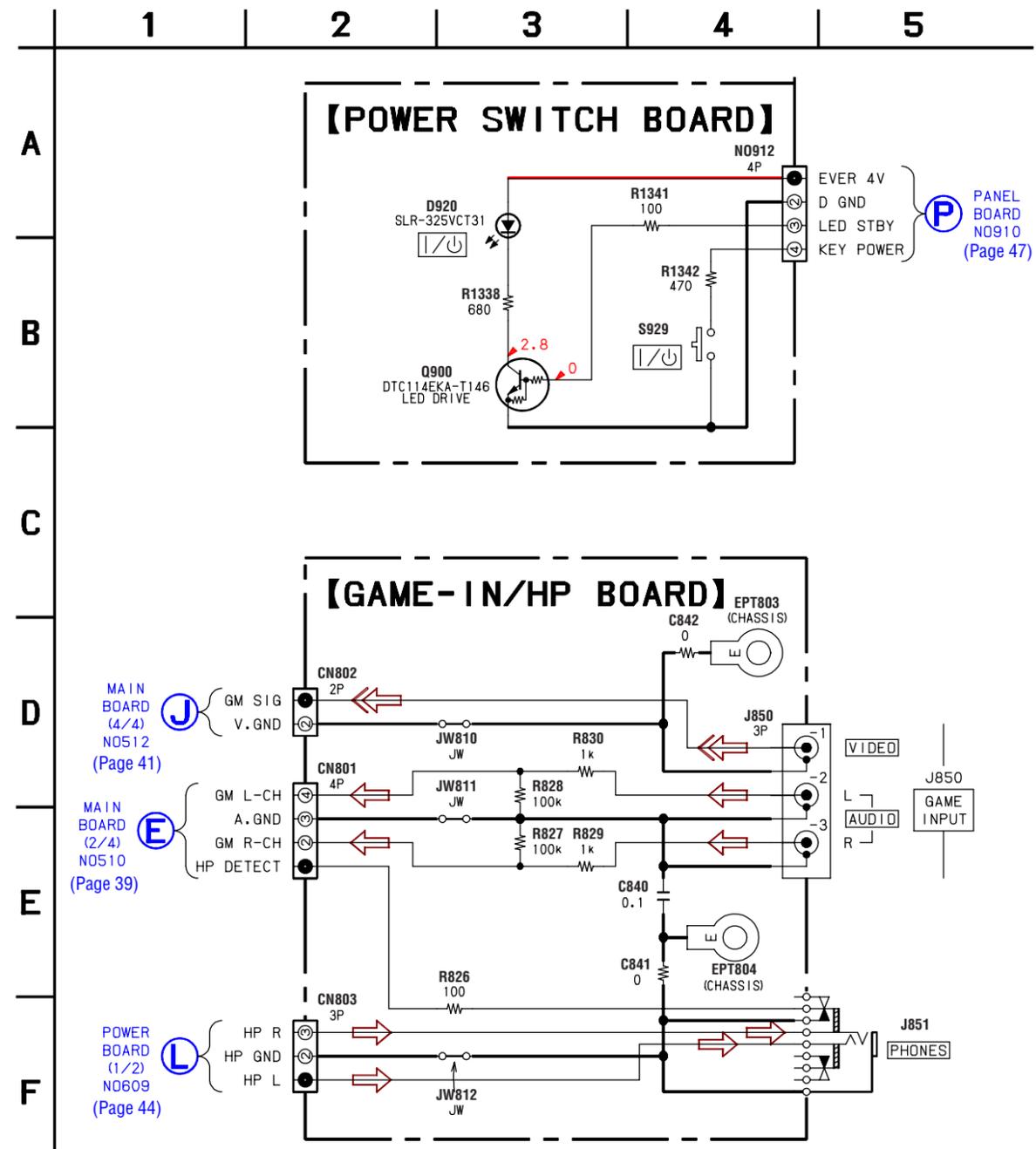
• Semiconductor Location

Ref. No.	Location
D921	G-7
D922	F-8
D923	C-8
D924	B-6
D926	E-4
Q909	F-6
Q910	D-5
Q917	E-2

7-26. PRINTED WIRING BOARDS — JACK SECTION — • Refer to page 28 for Circuit Boards Location.  : Uses unleaded solder.

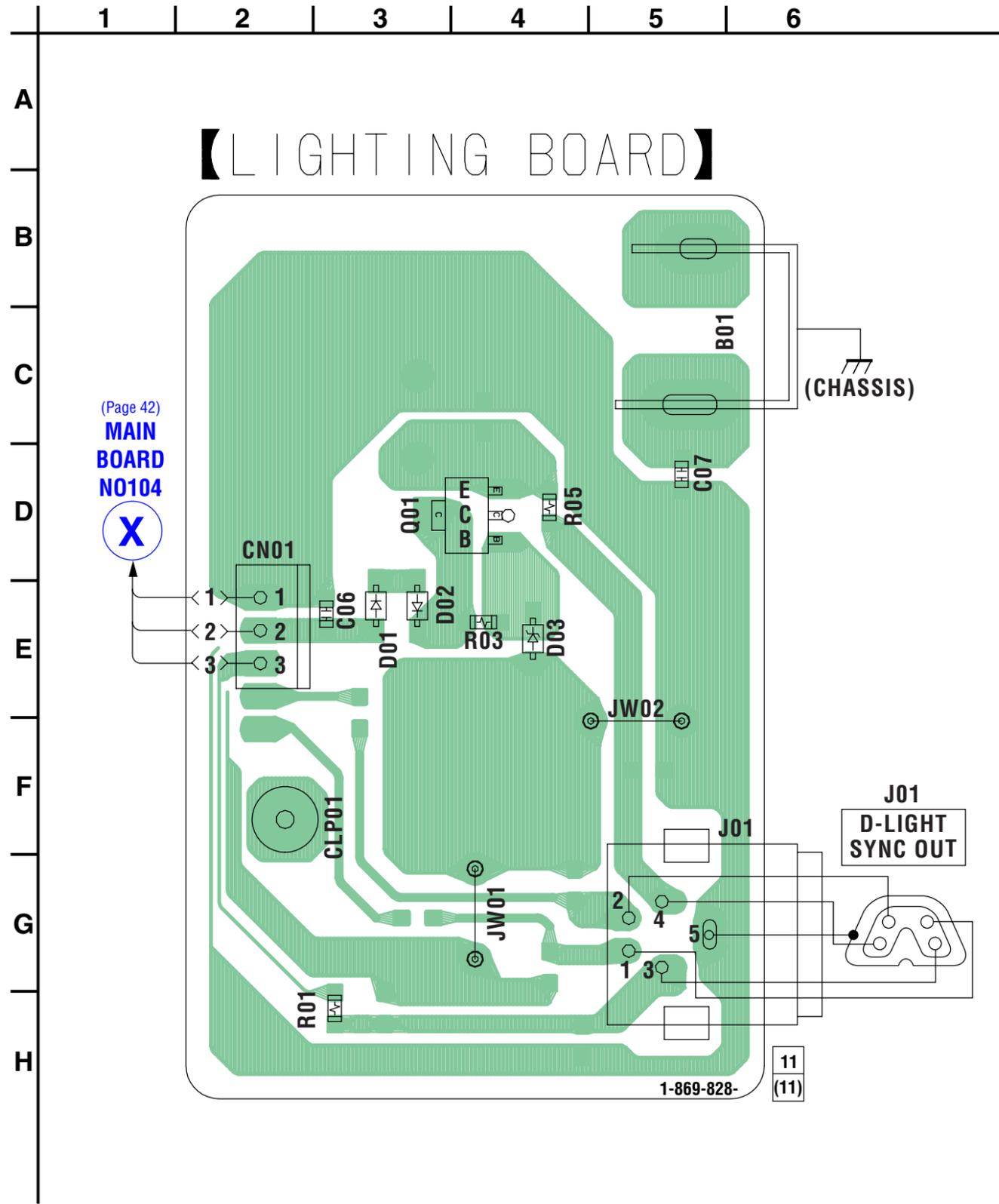


7-27. SCHEMATIC DIAGRAM — JACK SECTION —

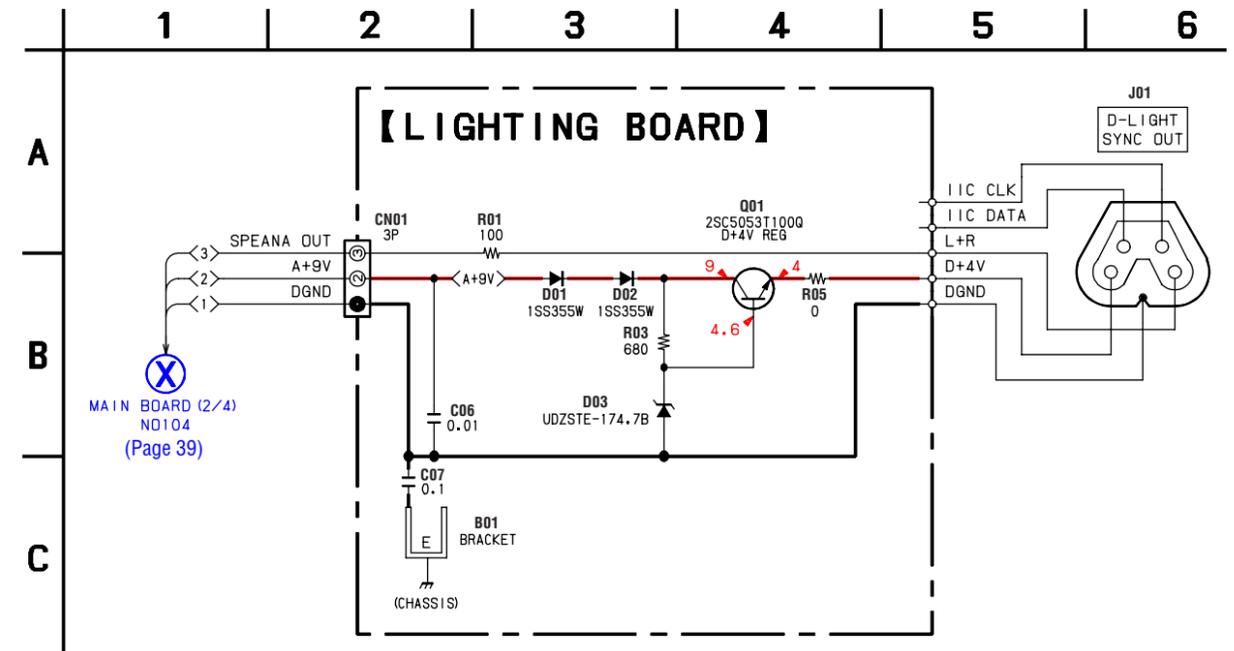


7-28. PRINTED WIRING BOARD — LIGHTING SECTION —
 • Refer to page 28 for Circuit Boards Location.

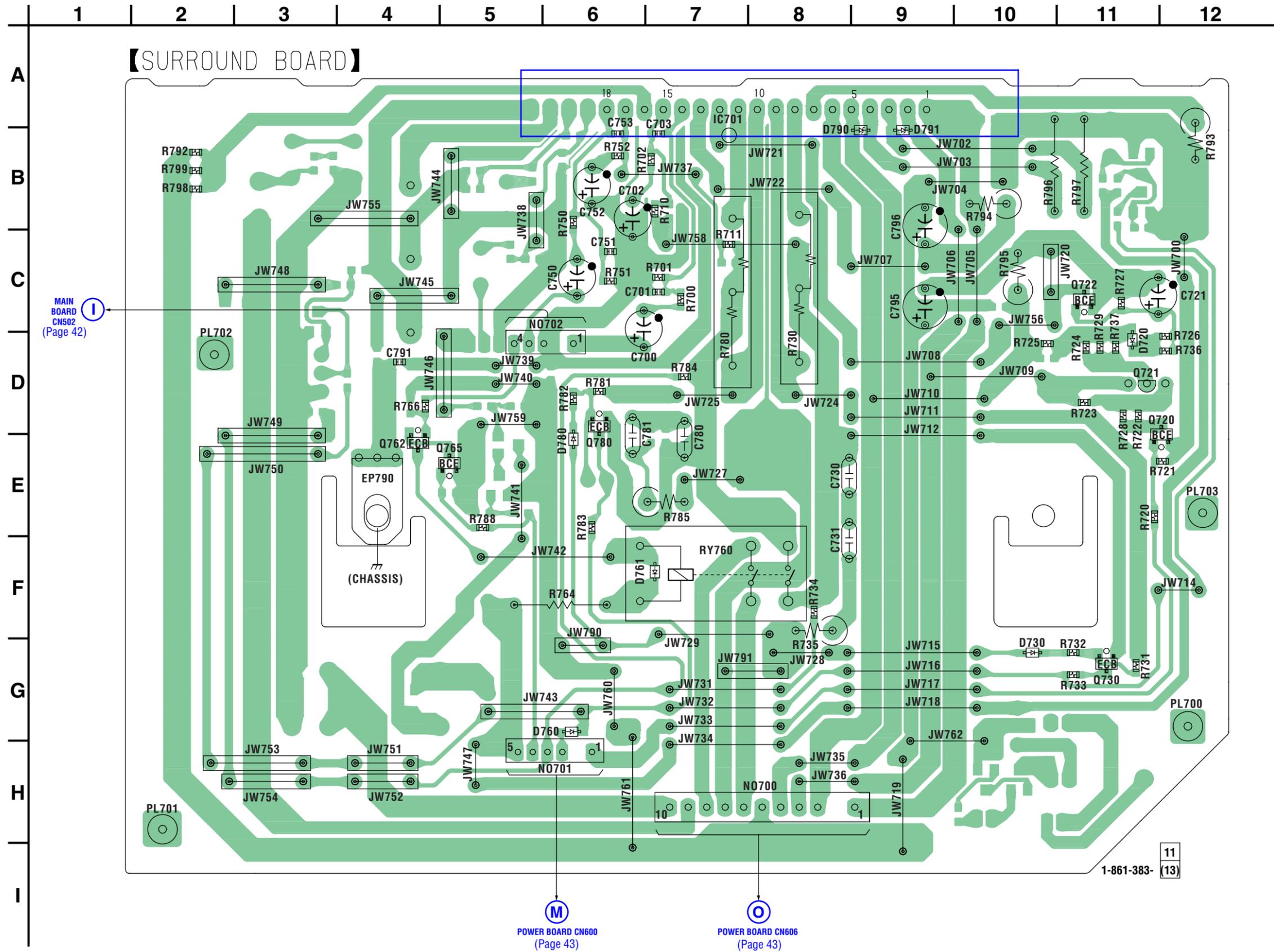
 : Uses unleaded solder.



7-29. SCHEMATIC DIAGRAM — LIGHTING SECTION —



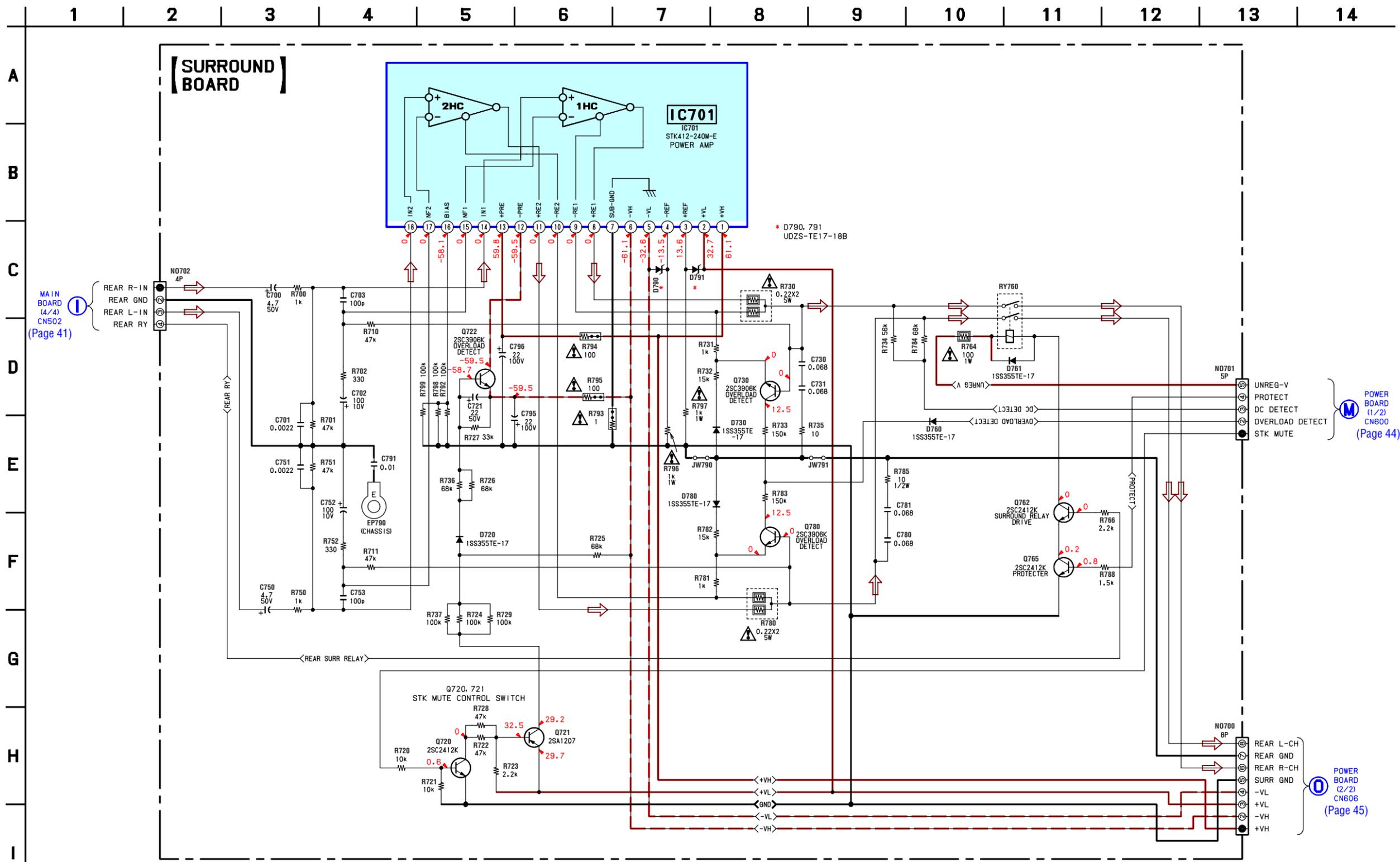
7-30. PRINTED WIRING BOARD — SURROUND SECTION — • Refer to page 28 for Circuit Boards Location.  : Uses unleaded solder.



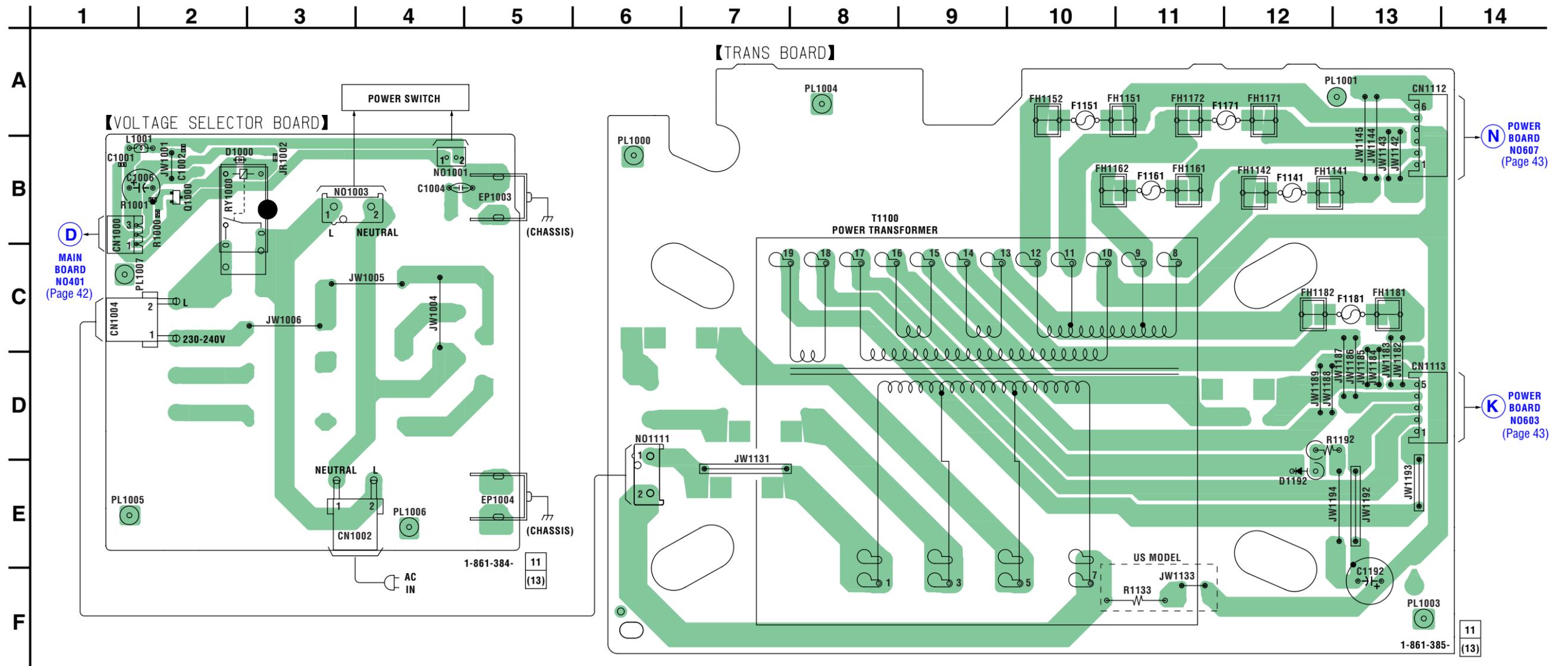
• Semiconductor Location

Ref. No.	Location
D720	D-11
D730	G-10
D760	G-6
D761	F-7
D780	E-6
D790	B-9
D791	B-9
IC701	A-7
Q720	D-11
Q721	D-11
Q722	C-11
Q730	G-11
Q762	E-4
Q765	E-4
Q780	D-6

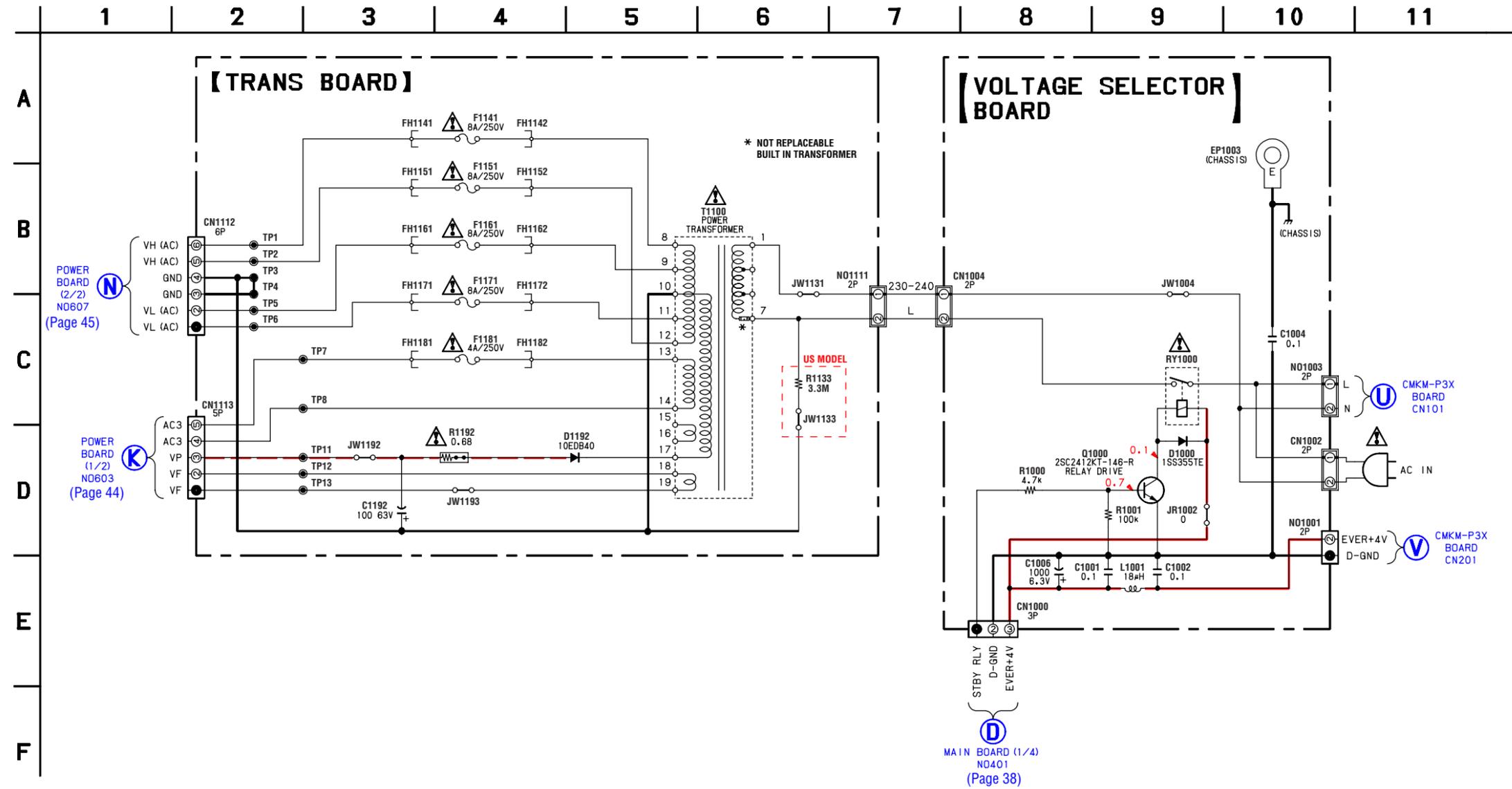
7-31. SCHEMATIC DIAGRAM — SURROUND SECTION —



7-32. PRINTED WIRING BOARDS — TRANSFORMER SECTION — • Refer to page 28 for Circuit Boards Location.  : Uses unleaded solder.

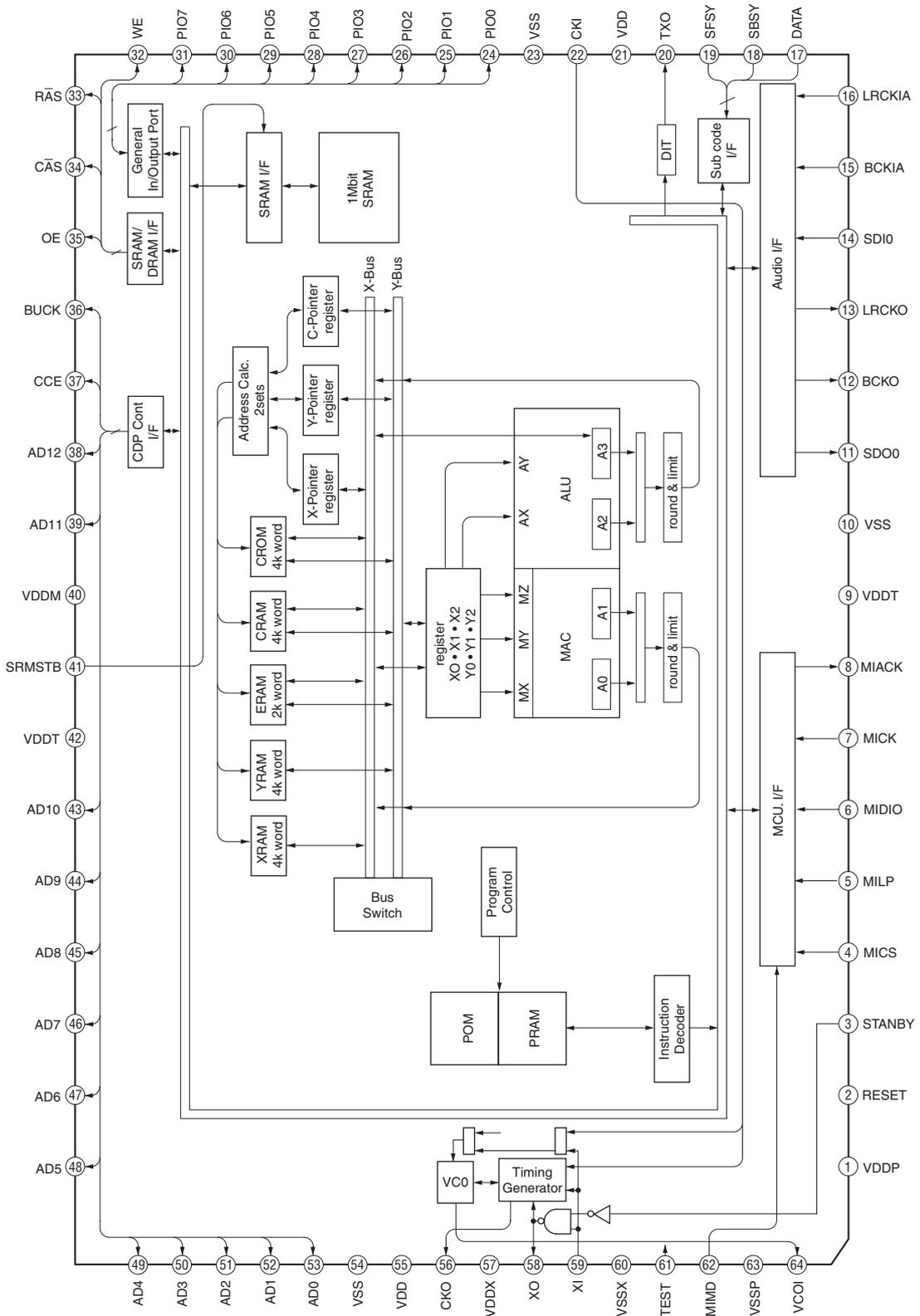


7-33. SCHEMATIC DIAGRAM — TRANSFORMER SECTION —

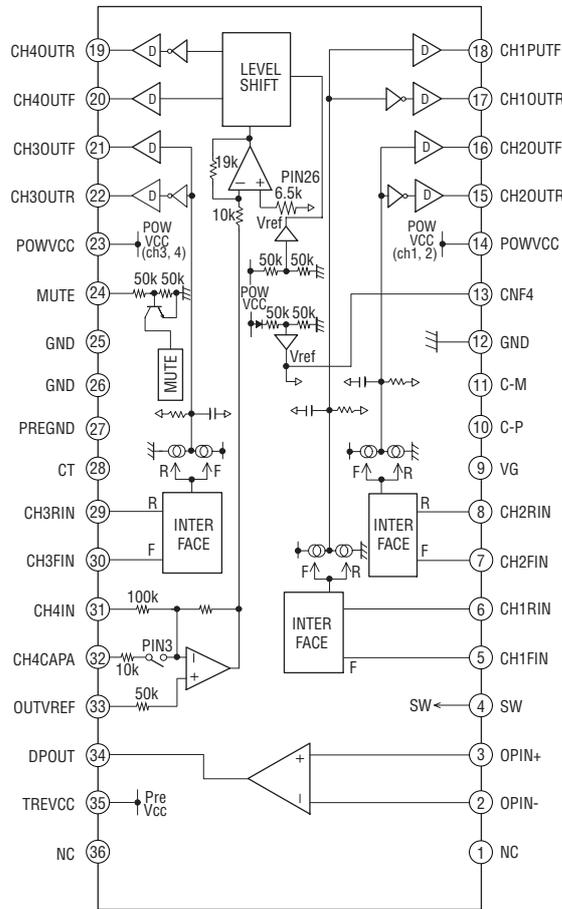


• IC BLOCK DIAGRAMS

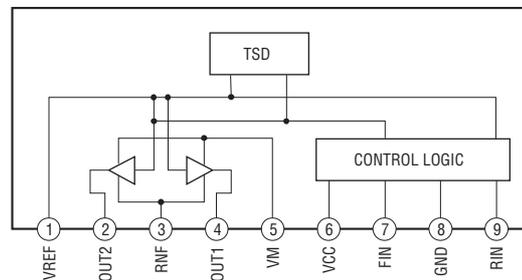
IC301 TC94A34FG-002 (BD81A Board)



IC251 BA5947FM (BD81A Board)



IC514 BA6956AN (MAIN Board)
IC515 BA6956AN (MAIN Board)



• IC PIN DESCRIPTIONS

• IC101 CXD3059AR (RF AMP, DIGITAL SIGNAL PROCESSOR) (BD81A BOARD)

Pin No.	Pin Name	I/O	Pin Description
1	MIRR	I/O	Mirror signal input/output Not used in this set. (Open)
2	DFCT	I/O	Defect signal input/output Not used in this set. (Open)
3	FOK	I/O	Focus OK signal input/output Not used in this set. (Open)
4	VSS	—	Internal digital ground pin
5	LOCK	I/O	GFS is sampled at 460Hz; when GFS is high , this pin outputs a high signal If GFS is low eight consecutive Not used in this set. (Open)
6	MDP	O	Spindle motor servo control signal output
7	SSTP	I	Disc innermost detection signal input
8	IOVSS1	—	I/O digital ground pin
9	SFDR	O	Sled drive signal output
10	SRDR	O	Sled drive signal output
11	TFDR	O	Tracking drive signal output
12	TRDR	O	Tracking drive signal output
13	FFDR	O	Focus drive signal output
14	FRDR	O	Focus drive signal output
15	IOVDD1	—	I/O digital power supply pin (+3.3 V)
16	AVDD0	—	Analog power supply pin (+3.3 V)
17	AVSS0	—	Analog ground pin
18	NC	—	Not used. (Open)
19	E	I	E signal input
20	F	I	F signal input
21	TEI	I	Tracking error signal input
22	TEO	O	Tracking error signal output
23	FEI	I	Focus error signal input
24	FEO	O	Focus error signal output
25	VC	O	Center voltage output
26	A	I	A signal input
27	B	I	B signal input
28	C	I	C signal input
29	D	I	D signal input
30	NC	—	Not used. (Open)
31	AVDD4	—	Analog power supply pin (+3.3 V)
32	RFDCO	O	RFDC signal output Not used in this set. (Open)
33	PDSSENS	I	Reference voltage pin for PD Connect to ground in this set.
34	AC_SUM	O	RFAC summing amplifier signal output
35	EQ_IN	I	Equalizer circuit signal input
36	LD	O	APC amplifier signal output
37	PD	I	APC amplifier signal input
38	NC	—	Not used. (Open)
39	RFC	I	Equalizer cut-off frequency adjustment pin
40	AVSS4	—	Analog ground pin
41	RFACO	O	RFAC signal output
42	RFACI	I	RFAC signal input or EFM signal input
43	AVDD3	—	Analog power supply pin (+3.3 V)
44	BIAS	I	Asymmetry circuit constant current signal input
45	ASYI	I	Asymmetry comparator voltage signal input
46	ASYO	O	EFM full-swing signal output (Low=VSS, High=VDD)
47	VPCO	O	Wide-band EFM PLL charge pump signal output Not used in this set. (Open)
48	VCTL	I	Wide-band EFM PLL VCO2 control voltage signal input
49	AVSS3	—	Analog ground pin
50	CLTV	I	Multiplier VCO1 control voltage signal input

Pin No.	Pin Name	I/O	Pin Description
51	FILO	O	Master PLL (slave=digital PLL) filter signal output
52	FILI	I	Master PLL filter signal input
53	PCO	O	Master PLL charge pump signal output
54	AVDD5	—	Analog power supply pin (+3.3 V)
55	DDVROUT	O	DC/DC converter signal output
56	DDVRSEN	I	DC/DC converter output voltage monitor pin
57	AVSS5	—	Analog ground pin
58	DDCR	I	DC/DC converter reset pin
59	NC	—	Not used. (Open)
60	BCKI	I	D/A interface bit clock signal input
61	PCMDI	I	D/A interface serial data signal input (2's COMP, MSB first)
62	LRCKI	I	D/A interface LR clock signal input
63	LRCK	O	D/A interface LR clock signal output f=Fs
64	VSS	—	Internal digital ground pin
65	PCMD	O	D/A interface serial data signal output (2's COMP, MSB first)
66	BCK	O	D/A interface bit clock signal output
67	VDD	—	Internal digital power supply pin (+3.3 V)
68	EMPH	O	High when the playback disc has emphasis, low it has not
69	EMPHI	I	High when de-emphasis is ON, low when input OFF
70	IOVDD2	—	I/O digital power supply pin (+3.3 V)
71	DOUT	O	Digital signal output
72	TEST	I	Test pin Normally ground
73	TEST1	I	Test pin Normally ground
74	IOVSS2	—	I/O digital ground pin
75	NC	—	Not used. (Open)
76	XVSS	—	Master clock ground pin
77	XTAO	O	Crystal oscillation circuit signal output (16.9344 MHz)
78	XTAI	I	Crystal oscillation circuit signal input (16.9344 MHz)
79	XVDD	—	Master clock power supply pin (+3.3 V)
80	AVDD1	—	Analog power supply pin (+3.3 V)
81	AOUT1	O	Lch analog signal output
82	VREFL	O	Lch reference voltage signal output
83	AVSS1	—	Analog ground pin
84	AVSS2	—	Analog ground pin
85	VREFR	O	Rch reference voltage signal output
86	AOUT2	O	Rch analog signal output
87	AVDD2	—	Analog power supply pin (+3.3 V)
88	NC	—	Not used. (Open)
89	IOVDD0	—	I/O digital power supply pin (+3.3 V)
90	RMUT	O	Rch "0" detection flag Not used in this set. (Open)
91	LMUT	O	Lch "0" detection flag Not used in this set. (Open)
92	NC	—	Not used. (Open)
93	XTSL	I	Crystal selection input Not used in this set. (Connect to ground.)
94	IOVSS0	—	I/O digital ground pin
95	XTACN	I	Oscillation circuit control signal input Self-oscillation when high, oscillation stop when low
96	SQSO	O	Subcode Q 80-bit and PCM peak and level data signal output CD TEXT data signal output Not used in this set. (Open)
97	SQCK	I	SQSO readout clock signal input
98	SBSO	O	Subcode P to W serial signal output Not used in this set. (Open)
99	EXCK	I	SBSO readout clock signal input Not used in this set. (Open)
100	XRST	I	System reset signal input "L": Reset
101	SYSM	I	Mute signal input "H": Mute Connect to ground in this set.

Pin No.	Pin Name	I/O	Pin Description
102	DATA	I	Serial data signal input
103	VSS	—	Internal digital ground pin
104	XLAT	I	Latch signal input The serial data is latched at the falling edge
105	CLOCK	I	Serial data transfer clock signal input
106	VDD	—	Internal digital power supply pin (+3.3 V)
107	SENS	O	SENS signal output
108	SCLK	I	SENS serial data readout clock signal input
109	ATSK	I/O	Anti-shock signal input/output Not used in this set. (Open)
110	WFCK	O	WFCK signal output Not used in this set. (Open)
111	XUGF	O	XUGF signal output Not used in this set. (Open)
112	XPCK	O	XPCK signal output Not used in this set. (Open)
113	GFS	O	GFS signal output Not used in this set. (Open)
114	C2PO	O	C2PO signal output Not used in this set. (Open)
115	SCOR	O	High output when the subcode sync, S0 or S1, is detected
116	VDD	—	Internal digital power supply pin (+3.3 V)
117	C4M	O	4.2336MHz signal output Not used in this set. (Open)
118	WDCK	O	Word clock signal output $f=2F_s$ Not used in this set. (Open)
119	COUT	I/O	Track number count signal input/output Not used in this set. (Open)
120	NC	—	Not used. (Open)

• IC401 M3062CMEN-A17FPUO (MASTER CONTROL) (MAIN BOARD (1/4))

Pin No.	Pin Name	I/O	Pin Description
1	MP3 ACK	I	Acknowledgement signal input from MP3 decoder IC "L": acknowledged
2	MP3 LP	O	Latch signal output to MP3 decoder IC "L": enable
3	MP3 CS	O	Chip select signal output MP3 decoder IC "L": enable
4	SIRCS	I	Remote control signal input
5	MP3 DATA OUT	O	Serial data signal output to MP3 decoder IC
6	MP3 DATA IN	I	Serial data signal input from MP3 decoder IC
7	MP3 CLK	O	Serial data transfer clock signal output to MP3 decoder IC
8	BYTE	—	Ground pin
9	CNVSS	—	Ground pin
10	XC IN	I	Sub system clock signal input (32.768 kHz)
11	XC OUT	O	Sub system clock signal output (32.768 kHz)
12	RESET	I	System reset signal input from the reset signal IC "L": reset After the power supply rises, "L" is input for several hundreds msec and then change to "H".
13	X OUT	O	Main system clock signal output (16 MHz)
14	VSS	—	Ground pin
15	X IN	I	Main system clock signal input (16 MHz)
16	VCC	—	Power supply pin (+3.3 V)
17	NMI	I	Non-maskable interrupt input
18	MP3RST	O	Reset signal output to MP3 decoder IC
19	SCOR	I	Subcode sync (S0+S1) detection signal input from the digital signal processor
20	AC OUT	I	AC off detection signal input from the reset signal IC "L": AC cut detected
21	SENS	I	Internal status detection monitor signal input from the digital signal processor
22	CD CLK	O	Serial data transfer clock signal output to the digital signal processor
23	XLAT	O	Serial data latch pulse signal output to the digital signal processor
24	CD DATA	O	Serial data signal output to the digital signal processor
25	XRST	O	Reset signal output to the digital signal processor and the motor/coil driver "L": reset
26	XTCN	O	BD DSP oscillation on/off control signal output "H": on
27	FAN CTRL	I	Not used in this set. (Open)
28	STBY RELAY	O	Main power on/off control signal output "H": power on
29	IIC CLK	I/O	Clock signal for IIC communication between master control IC and display control IC
30	IIC DATA	I/O	Data signal for IIC communication between master control IC and display control IC
31	MP3 STB	O	Standby mode signal output to MP3 decoder IC "L": standby mode
32	REC MUTE	O	Recording muting on/off control signal output "L": muting on
33	$\overline{\text{AC CUT MAIN}}$	I	Under voltage protection detection signal input "L": under voltage detected Not used in this set. (Open)
34	LINE MUTE	O	Line muting on/off control signal output "H": muting on
35	VMUTE2	I	Not used in this set. (Open)
36	VMUTE	I	Not used in this set. (Open)
37	SYS RST	I	Not used in this set. (Open)
38	MREQ	I	Not used in this set. (Open)
39	AMS MUTE	O	AMS signal muting on/off control signal output "H": muting on
40	CD POWER	O	Power on/off control signal output "H": power on
41	CD A MUTE	O	CD analog signal muting on/off control signal output "H": power on
42	TSSENS	I	Disc tray position detection signal input from CDM
43	DSSENS	I	Disc existence detection signal input from CDM

Pin No.	Pin Name	I/O	Pin Description
44	OC SW1	I	Disc tray status detection signal input from CDM
45	CHK SW	I	Disc tray status detection signal input from CDM
46	OC SW2	I	Disc tray status detection signal input from CDM
47	TBL NEG	O	CDM turning motor control signal output
48	TBL POS	O	CDM turning motor control signal output
49	LOD NEG	O	CDM loading motor control signal output
50	LOD POS	O	CDM loading motor control signal output
51	A PLAY	I	Deck A playback detection signal input "H": deck A play
52	A TRG	O	Deck A side trigger plunger drive signal output "H": plunger on
53	A HALF	I	Deck A cassette detection signal input "H": cassette detected
54	CPM CNT2	O	Capstan motor drive signal output
55	REC A	I	Deck B cassette forward side recording tab detection signal input
56	B PLAY	I	Deck B playback detection signal input "H": deck B play
57	B TRG	O	Deck B side trigger plunger drive signal output "H": plunger on
58	REC B	I	Deck B cassette reverse side recording tab detection input
59	TC RELAY	O	Recording/playback selection signal output "H": recording, "L": playback
60	BIAS	O	Recording bias on/off control signal output "H": bias on
61	AMS IN	I	Music detection signal input from automatic music sensor "L": track playback, "H": playback of space between track. Use to detect track change.
62	VCC	—	Power supply pin (+3.3 V)
63	TC MUTE	O	Tape playback muting on/off control signal output "H": muting on
64	VSS	—	Ground pin
65	AUDIO1 DATA	O	Serial data signal output to audio signal processor
66	AUDIO1 CLK	O	Serial data transfer clock signal output to audio signal processor
67	AUDIO2 DATA	O	Serial data signal output to 4-ch volume IC
68	AUDIO2 CLK	O	Serial data transfer clock signal output to 4-ch volume IC
69	ANALOG IN MUTE	O	Soft test signal output Not used in this set. (Open)
70	VIDEO OUT	O	Not used in this set. (Open)
71	C RELAY	I	Not used in this set. (Open)
72	REAR RELAY	O	Relay drive signal output for the surround speakers "H": relay on
73	DISPLAY KEY	I	DISPLAY key press detection signal input (Interrupt input)
74	POWER KEY	I	POWER key press detection signal input (Interrupt input)
75	GC RESET	O	Reset signal output to display control IC "L": reset
76	STBY LED	O	LED drive signal output of POWER indicator "H": LED on
77	HP DET	I	Headphone connection detection signal input "H": headphone connected
78	FR RELAY	O	Relay drive signal output for the front speakers "H": relay on
79	HP MUTE	O	Headphone muting on/off control signal output "L": muting on
80	STK MUTE	O	Power amplifier and sub woofer amplifier on/off control signal output "H": amplifier on
81	PROTECT	I	Speaker protect detection signal input from speaker protect circuit "L": protector on
82	ST CLK	O	PLL serial data transfer clock signal output to the tuner unit
83	ST DIN	I	PLL serial data signal input from the tuner unit
84	ST DOUT	O	PLL serial data signal output to the tuner unit
85	ST CE	O	PLL chip enable signal output to the tuner unit
86	TUNED	I	Tuning detection signal input from the tuner unit "L": tuned
87	STEREO	I	FM stereo detection signal input from the tuner unit "L": stereo
88	ST MUTE	O	Tuner muting on/off control signal output "H": muting on

Pin No.	Pin Name	I/O	Pin Description
89	A SHUT	I	Shut off detection signal input from deck A side reel pulse detection (A/D input)
90	B SHUT	I	Shut off detection signal input from deck A side reel pulse detection (A/D input)
91	B HALF	I	Deck B cassette detection signal input "L": cassette detected
92	MODEL IN	I	Model setting pin (A/D input)
93	DEST IN	I	Destination setting pin (A/D input)
94	I HOLD	I	Over voltage protection detection signal input "L": over voltage detected
95	MIC DET	I	BPM value detection for high frequency pin (A/D input)
96	AVSS	—	Ground pin (for A/D conversion)
97	BPM DET LO	I	BPM value detection for high frequency pin (A/D input)
98	VREF	I	A/D converter reference voltage signal input (+3.3 V)
99	AVCC	—	Power supply pin (+3.3 V) (for A/D conversion)
100	MP3 REQ	I	Request signal input from MP3 decoder IC

• IC901 MB90M407PF-G-142-BNDE1 (SYSTEM CONTROL) (PANEL BOARD)

Pin No.	Pin Name	I/O	Pin Description
1 to 4	G4 to G1	O	Grid drive signal output to the fluorescent indicator tube
5 to 10	SEG-1 to SEG-6	O	Segment drive signal output to the fluorescent indicator tube
11	VSS-IO	—	Ground pin (for I/O port)
12 to 22	SEG-7 to SEG-17	O	Segment drive signal output to the fluorescent indicator tube
23	VDD-FIP	—	Power supply pin (+3.3 V) (for fluorescent indicator tube)
24 to 41	SEG-18 to SEG-35	O	Segment drive signal output to the fluorescent indicator tube
42	VSS-IO	—	Ground pin (for I/O port)
43	SEG-36	O	Segment drive signal output to the fluorescent indicator tube
44	TAPE A LED	O	Dynamic LED drive signal output of the TAPE A FWD PLAY indicator and TAPE A REV PLAY indicator “H”: LED on
45	SPK MODE LED	O	Dynamic LED drive signal output of the X-ROUND indicator “H”: LED on
46	CD LED	O	Dynamic LED drive signal output of the CD PLAY PAUSE indicator “H”: LED on
47	GAME, REC LED	O	Dynamic LED drive signal output of the GAME indicator and REC PAUSE indicator “H”: LED on
48	VKK	—	Power supply pin (–33 V) (for fluorescent indicator tube)
49	MD0	I	Setting pin for the CPU operational mode
50	MD1/VDD-VFT	I	Setting pin for the CPU operational mode
51	MD2	I	Setting pin for the CPU operational mode
52	VOL 1, 2	O	Dynamic LED drive signal output of the ILLUMINATION 1st indicator and 2nd indicator “H”: LED on
53	VOL 3, 4	O	Dynamic LED drive signal output of the ILLUMINATION 3rd indicator and 4th indicator “H”: LED on
54	VOL 5, 6	O	Dynamic LED drive signal output of the ILLUMINATION 5th indicator and 6th indicator “H”: LED on
55	VOL 7, 8	O	Dynamic LED drive signal output of the ILLUMINATION 7th indicator and 8th indicator “H”: LED on
56	VOL 9, 10	O	Dynamic LED drive signal output of the ILLUMINATION 9th indicator and 10th indicator “H”: LED on
57	VOL 11, TUNER BAND	O	Dynamic LED drive signal output of the ILLUMINATION 11th indicator and TUNER BAND indicator “H”: LED on
58	TAPE B LED	O	Dynamic LED drive signal output of the TAPE B FWD PLAY indicator and TAPE B REV PLAY indicator “H”: LED on
59	LED SELECT	O	Dynamic LED drive select signal output “L”: LED line ILLUMINATION 1, 3, 5, 7, 9, 11, TAPE B REV PLAY, TAPE A REV PLAY, X-ROUND, CD PLAY PAUSE and GAME is selected. “H”: LED line ILLUMINATION 2, 4, 6, 8, 10, TUNER/BAND, REC PAUSE/START, TAPE B FWD PLAY and TAPE A FWD PLAY is selected.
60	I2C DAT	I/O	Clock signal for IIC communication between master control IC and display control IC
61	I2C CLK	I/O	Data signal for IIC communication between master control IC and display control IC
62	AVCC	—	Power supply pin (+3.3 V) (for A/D conversion)
63	AVSS	—	Ground pin (for A/D conversion)
64 to 69	KEY 0 to KEY 5	I	Key signal input (A/D input)
70 to 73	BPF1-F01 to BPF3-F04	I	Spectrum analyzer drive signal input from the spectrum analyzer band-pass filter (A/D input)
74	ALL-BAND	I	Spectrum analyzer drive signal input from the spectrum analyzer band-pass filter (A/D input)

HCD-ZX9

Pin No.	Pin Name	I/O	Pin Description
75	JOG A	I	Jog dial pulse signal input from X-ROUND JOG rotary encoder (B phase input)
76	JOG B	I	Jog dial pulse signal input from X-ROUND JOG rotary encoder (A phase input)
77	RESET	I	System reset signal input from the master control IC "L": reset
78	SOFT TEST	O	Output for the software test point
79	VOL B	I	Jog dial pulse signal input from VOLUME rotary encoder (B phase input)
80	VOL A	I	Jog dial pulse signal input from VOLUME rotary encoder (A phase input)
81	VSS-CPU	—	Ground pin (for CPU)
82	XOUT	O	System clock signal output (4 MHz)
83	XIN	I	System clock signal input (4 MHz)
84	VCC-CPU	—	Power supply pin (+3.3 V) (for CPU)
85	NO USE	—	Not used. (Fixed at "L" in this set.)
86 to 100	G19 to G5	O	Grid drive signal output to the fluorescent indicator tube

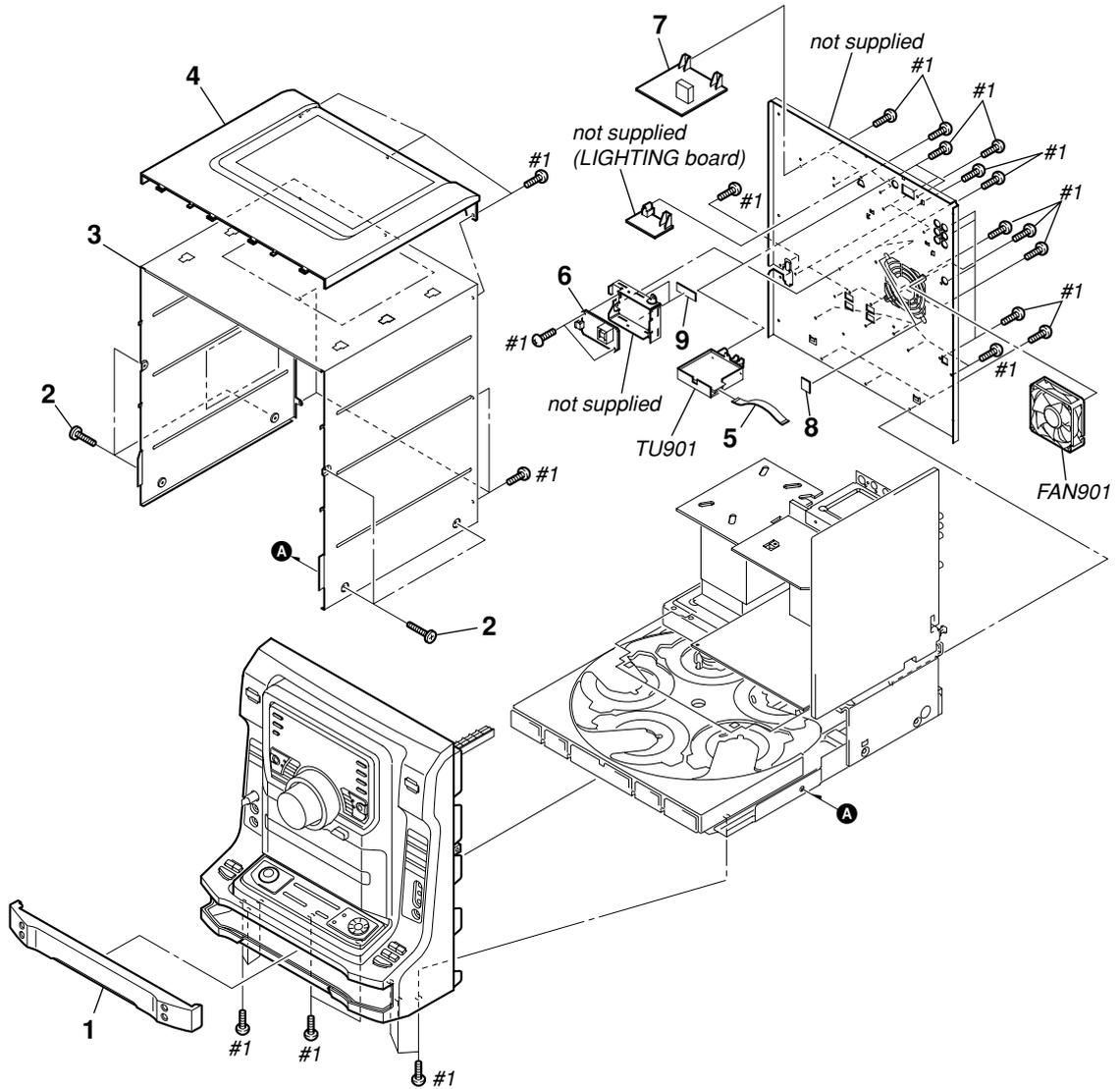
SECTION 8 EXPLODED VIEWS

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.
- Abbreviation
MX : Mexican model
- -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.

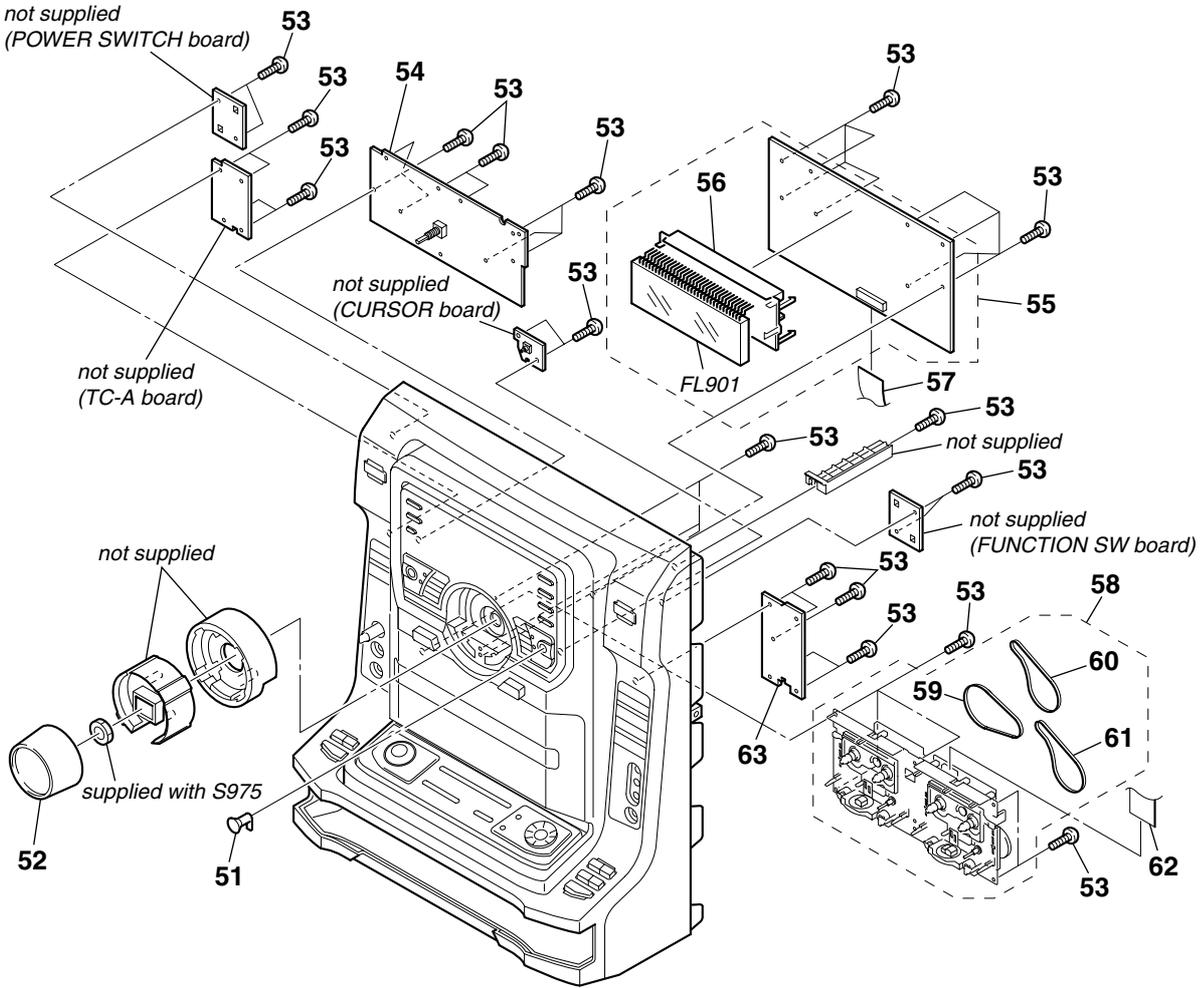
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

8-1. BACK PANEL SECTION



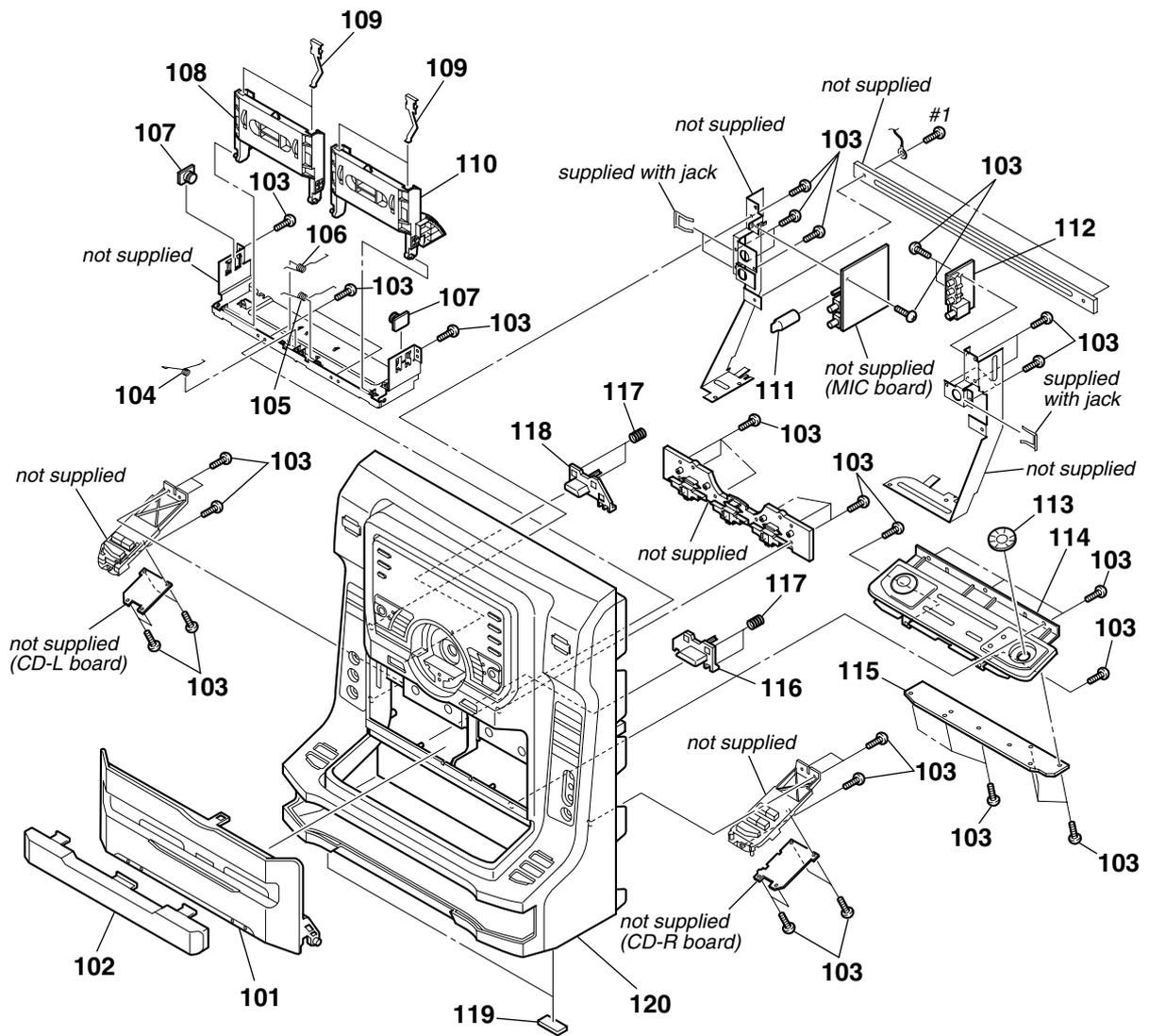
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	4-252-686-02	LOADING PANEL (US)		7	1-861-384-11	VOLTAGE SELECTOR BOARD	
1	4-252-686-21	LOADING PANEL (MX)		8	3-559-407-21	CUSHION, STOPPER (MX)	
2	3-363-099-02	SCREW (CASE 3 TP2) (US)		8	3-831-441-99	CUSHION, STOPPER (US)	
2	3-363-099-32	SCREW (CASE 3 TP2) (MX)		* 9	3-378-433-01	CUSHION, SARANET	
3	4-237-661-51	CASE		FAN901	1-763-372-11	FAN, DC	
4	4-252-685-01	COVER (TOP) (US)		TU901	1-693-603-11	TUNER (FM/AM) (MX)	
4	4-252-685-21	COVER (TOP) (MX)		TU901	1-693-623-31	TUNER (FM/AM) (US)	
5	1-769-939-11	WIRE (FLAT TYPE) (11 CORE)		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
Δ 6	1-468-737-51	SWITCHING, POWER (MX)					
Δ 6	1-468-737-71	SWITCHING, POWER (US)					

8-2. FRONT PANEL SECTION (1)



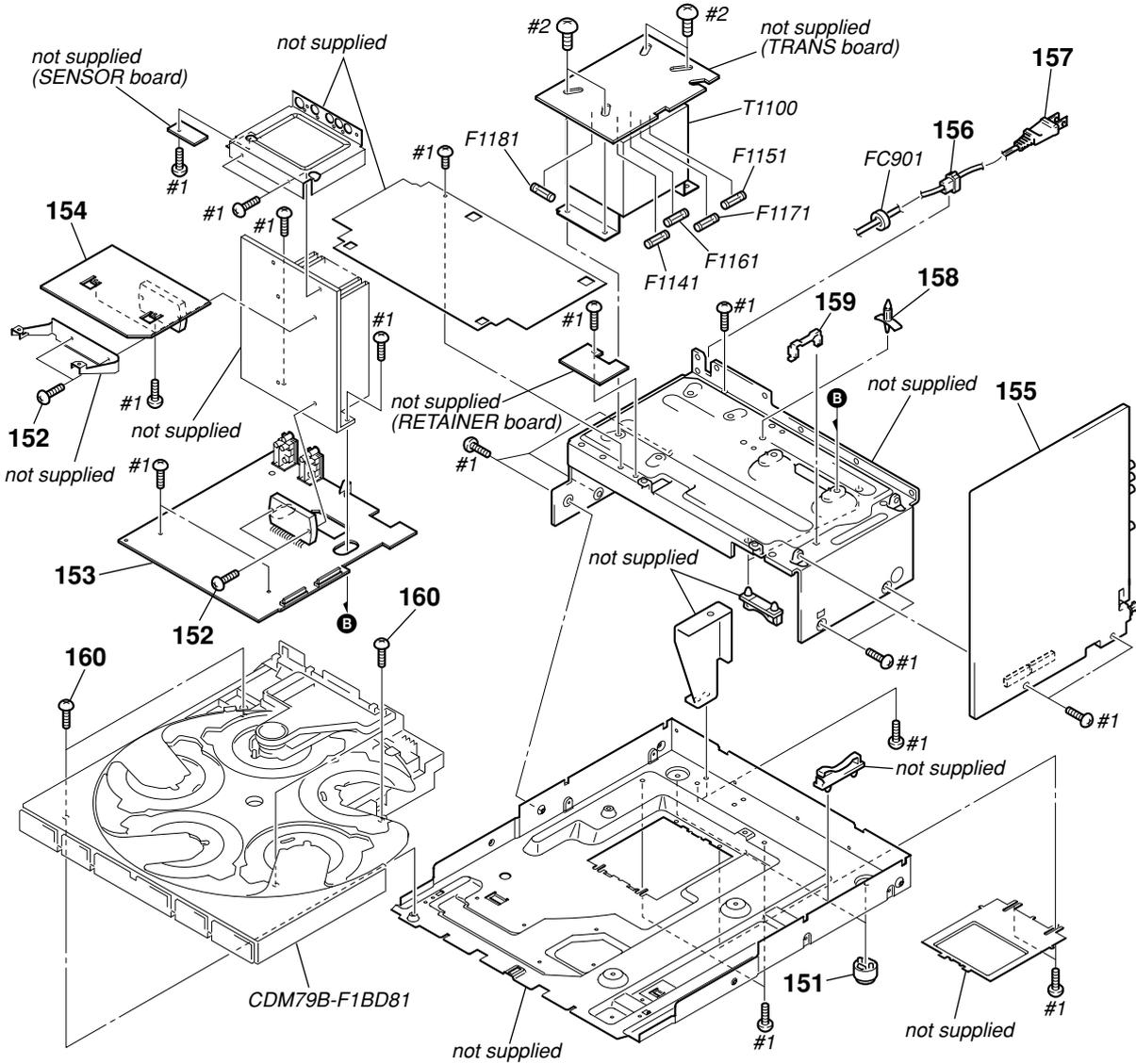
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	4-252-682-01	KNOB (ENTER)		58	1-796-487-71	DECK, MECHANICAL	
52	4-252-684-01	KNOB (VOLUME)		59	4-243-609-01	BELT (AF)	
53	3-087-053-01	+BVTP 2.6 (3CR)		60	4-243-610-01	BELT (AL)	
54	A-1052-687-A	VOL BOARD, COMPLETE (MX)		61	4-243-608-01	BELT (BR)	
54	A-4751-069-A	VOL BOARD, COMPLETE (US)		62	1-769-992-11	WIRE (FLAT TYPE) (13 CORE)	
55	A-4751-072-A	PANEL BOARD, COMPLETE (US)		63	A-1052-746-A	TC-B BOARD, COMPLETE (MX)	
55	A-4753-562-A	PANEL BOARD, COMPLETE (MX)		63	A-4751-063-A	TC-B BOARD, COMPLETE (US)	
56	4-253-178-01	HOLDER, FL		FL901	1-518-978-11	VACUUM FLUORESCENT DISPLAY	
57	1-773-163-11	WIRE (FLAT TYPE) (21 CORE)					

8-3. FRONT PANEL SECTION (2)



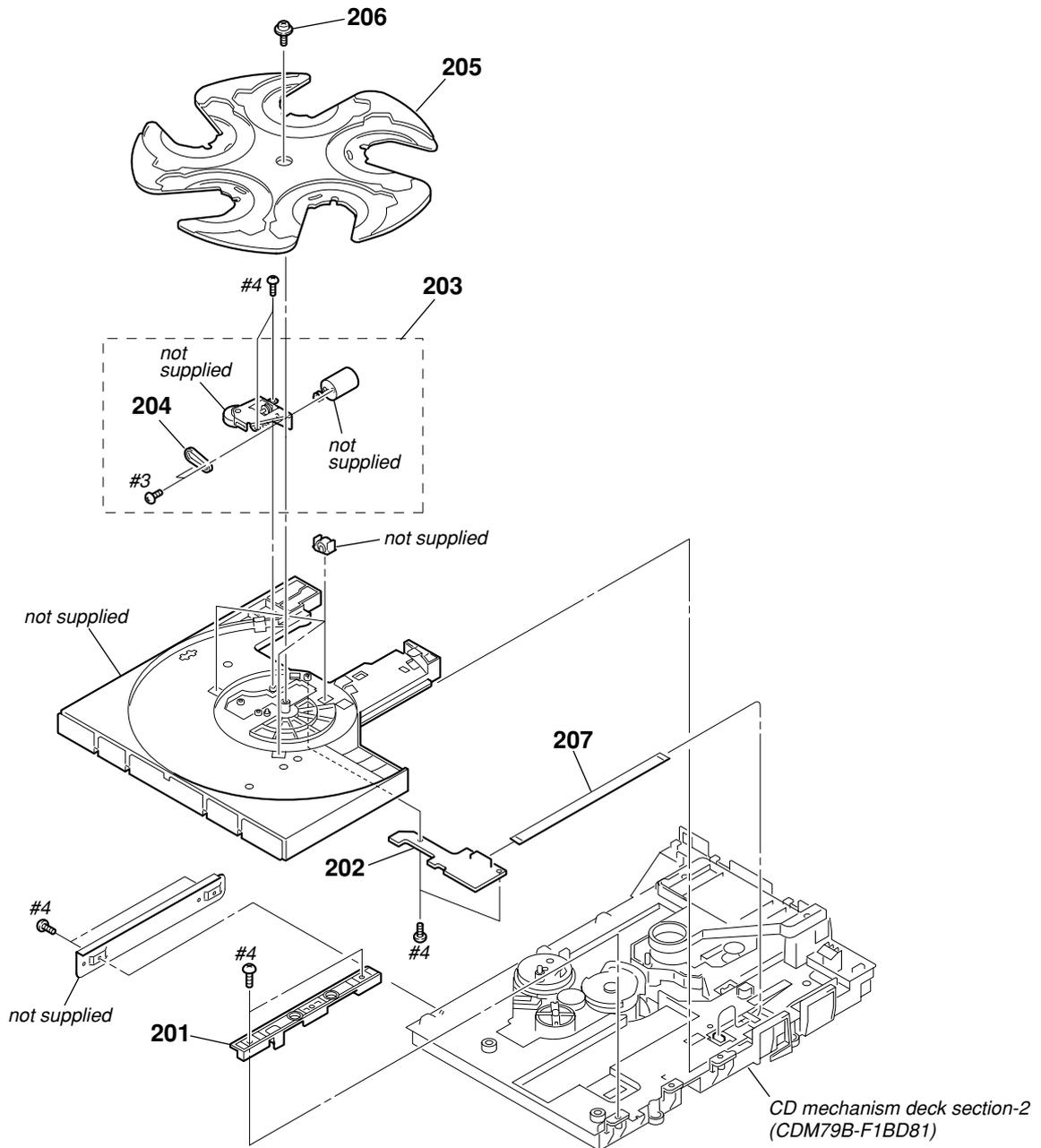
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	4-252-649-51	LID (TC) (MX)		113	4-252-683-01	KNOB (JOG)	
101	4-252-649-61	LID (TC) (US)		114	X-2148-524-1	BRACKET CD ASSY (MX)	
102	4-252-650-01	WINDOW (TC)		114	X-4956-237-1	BRACKET CD ASSY (US)	
103	3-087-053-01	+BVTP 2.6 (3CR)		115	A-1053-210-A	JOG BOARD, COMPLETE (MX)	
104	4-252-677-01	SPRING (LID)		115	A-4751-078-A	JOG BOARD, COMPLETE (US)	
105	4-252-679-01	SPRING (R)		116	4-252-654-02	BUTTON (EJECT-B)	
106	4-252-678-01	SPRING (L)		117	4-254-779-01	SPRING (EJECT)	
107	4-224-104-11	DAMPER		118	4-252-653-02	BUTTON (EJECT-A)	
108	4-252-651-01	HOLDER (TC-L)		119	4-225-252-21	CUSHION (FOOT)	
109	4-959-229-11	DETENT, CASSETTE		120	4-252-633-31	FRONT PANEL (MX)	
110	4-252-652-01	HOLDER (TC-R)		120	4-252-633-41	FRONT PANEL (US)	
111	4-237-635-11	KNOB (MIC)		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
112	A-4751-053-A	GAME-IN/HP BOARD, COMPLETE (US)					
112	A-4753-550-A	GAME-IN/HP BOARD, COMPLETE (MX)					

8-4. CHASSIS SECTION



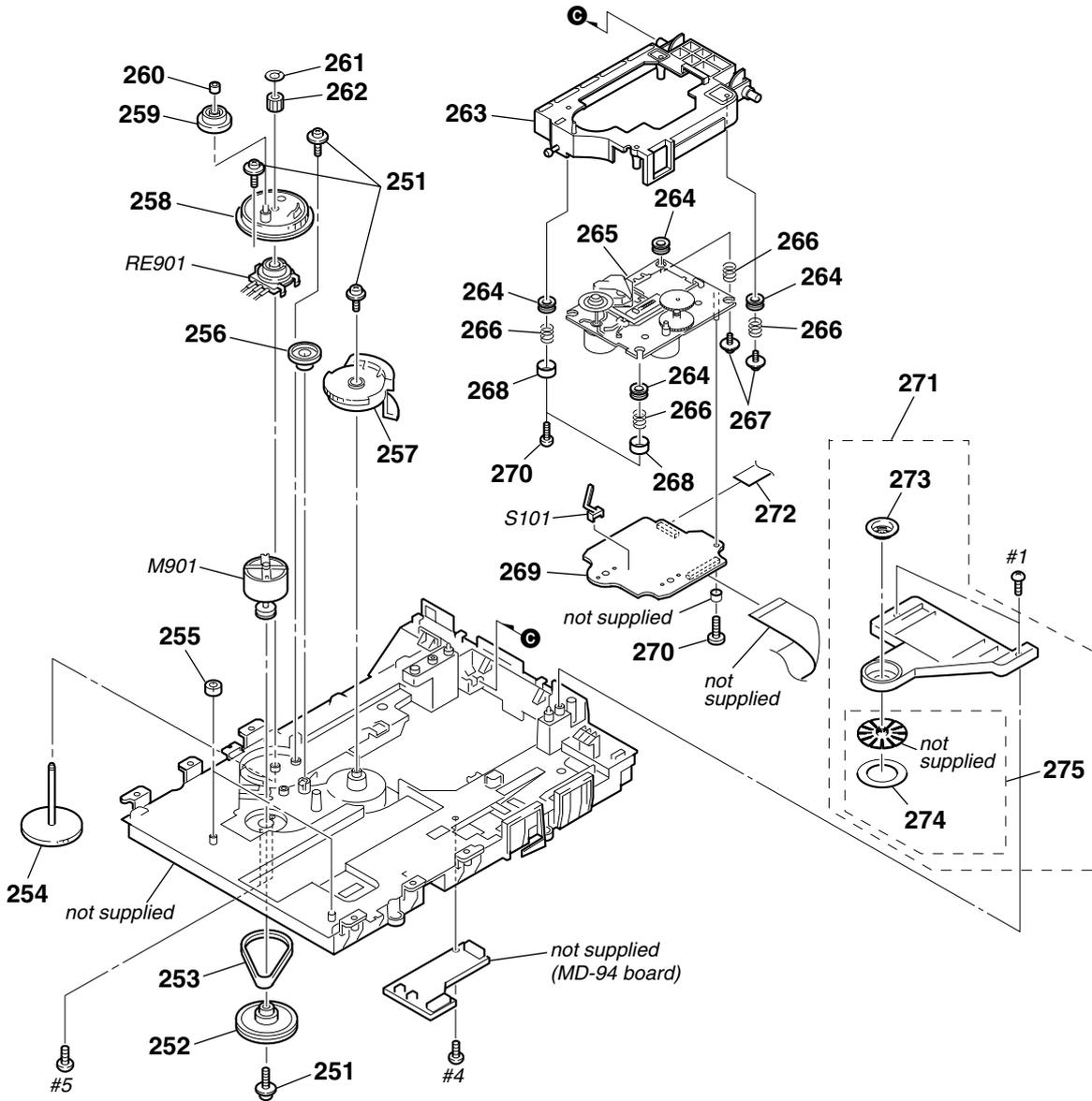
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	4-965-822-01	FOOT		△ F1141	1-533-949-33	FUSE, CYLINDRICAL (TIME LAG) (8A/250V) (US)	
152	3-905-609-41	SCREW (TRANSISTOR)		△ F1141	1-576-655-12	FUSE, GLASS TUBE (DIA. 5) (8A/250V) (MX)	
153	A-4751-050-A	POWER BOARD, COMPLETE (US)		△ F1151	1-533-949-33	FUSE, CYLINDRICAL (TIME LAG) (8A/250V) (US)	
153	A-4753-555-A	POWER BOARD, COMPLETE (MX)		△ F1151	1-576-655-12	FUSE, GLASS TUBE (DIA. 5) (8A/250V) (MX)	
154	A-1052-527-A	SURROUND BOARD, COMPLETE (MX)		△ F1161	1-533-949-33	FUSE, CYLINDRICAL (TIME LAG) (8A/250V) (US)	
154	A-4751-060-A	SURROUND BOARD, COMPLETE (US)		△ F1161	1-576-655-12	FUSE, GLASS TUBE (DIA. 5) (8A/250V) (MX)	
155	A-1198-352-A	MAIN BOARD, COMPLETE (MX)		△ F1171	1-533-949-33	FUSE, CYLINDRICAL (TIME LAG) (8A/250V) (US)	
155	A-1227-336-A	MAIN BOARD, COMPLETE (US)		△ F1171	1-576-655-12	FUSE, GLASS TUBE (DIA. 5) (8A/250V) (MX)	
* 156	3-703-244-00	BUSHING (2104), CORD (US)		△ F1181	1-532-504-33	FUSE (TIME LAG) (4A/250V) (US)	
156	3-703-571-11	BUSHING (S) (4516), CORD (MX)		△ F1181	1-533-471-12	FUSE, GLASS TUBE (DIA. 5) (4A/250V) (MX)	
△ 157	1-783-820-11	CORD, POWER (US)		FC901	1-500-868-11	CORE, FERRITE	
△ 157	1-829-627-11	POWER-SUPPLY CORD (MX)		△ T1100	1-443-195-11	TRANSFORMER, POWER (MX)	
* 158	4-954-051-41	HOLDER, PC BOARD		△ T1100	1-445-175-11	TRANSFORMER, POWER (US)	
* 159	4-988-533-01	HOLDER, PWB		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
160	3-077-331-01	+BV 3 (3-CR)		#2	7-685-881-09	SCREW +BVTT 4X8 (S)	

8-5. CD MECHANISM SECTION (1)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	3-074-737-01	PLATE (GUIDE)		206	4-218-252-52	SCREW (+PTPWH M2.6), FLOATING	
202	A-6060-642-A	SE-130 BOARD, COMPLETE		207	1-823-921-11	FMS-18	
203	A-6060-640-B	UNIT ASSY, TD		#3	7-682-544-04	SCREW +P 3X3	
204	3-074-725-01	BELT, TD		#4	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	
205	3-074-717-21	TRAY					

8-6. CD MECHANISM SECTION (2)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
251	4-218-252-52	SCREW (+PTPWH M2.6), FLOATING		267	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING	
252	3-074-744-01	GEAR (LOADING A)		268	4-231-151-01	STOPPER (BU)	
253	3-074-745-01	BELT (LOADING)		269	A-4751-045-A	BD81A BOARD, COMPLETE	
254	3-074-742-01	GEAR (SHAFT)		270	3-087-053-01	+BVTP 2.6 (3CR)	
255	4-951-619-01	CUSHION (A)		271	A-4713-281-A	CHUCK ASSY	
256	3-074-735-01	GEAR (IDOLER)		272	1-832-404-21	CABLE, FLEXIBLE FLAT (16 CORE)	
257	3-074-736-01	GEAR (CHUCK)		273	1-452-925-21	MAGNET ASSY	
258	3-074-741-01	GEAR (LOADING B)		274	4-231-777-02	SHEET (KH2)	
259	3-074-738-01	GEAR (SWING)		275	X-4953-195-3	PULLEY (AT) ASSY	
260	3-074-739-01	COLLAR (SWING)		M901	X-3952-411-1	MOTOR ASSY, LOADING (LOADING)	
261	3-016-533-11	WASHER (FR), STOPPER		RE901	1-418-746-11	ENCODER, ROTARY	
262	3-074-740-01	GEAR (LOADING C)		S101	1-771-853-11	SWITCH, DETECTION (LIMIT)	
263	X-4956-104-A	HOLDER (BU) ASSY		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
264	4-227-549-11	INSULATOR		#4	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	
△265	8-820-244-01	OPTICAL PICK-UP (KSM-215DCP/C2NP)		#5	7-621-259-25	SCREW +P 2.6X4	
266	4-227-045-11	SPRING (INSULATOR), COIL					

SECTION 9 ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX 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 \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

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

- Abbreviation
MX : Mexican model

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	A-4751-045-A	BD81A BOARD, COMPLETE *****					
		< CAPACITOR >					
C10	1-165-989-11	CERAMIC CHIP	10uF 10% 6.3V	C201	1-128-995-21	ELECT CHIP	100uF 20% 10V
C11	1-165-989-11	CERAMIC CHIP	10uF 10% 6.3V	C203	1-128-995-21	ELECT CHIP	100uF 20% 10V
C14	1-164-360-11	CERAMIC CHIP	0.1uF 16V	C209	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C15	1-164-360-11	CERAMIC CHIP	0.1uF 16V	C210	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C16	1-115-156-11	CERAMIC CHIP	1uF 10V	C211	1-164-230-11	CERAMIC CHIP	220PF 5% 50V
C17	1-126-246-11	ELECT CHIP	220uF 20% 4V	C212	1-162-919-11	CERAMIC CHIP	22PF 5% 50V
C18	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	C213	1-162-919-11	CERAMIC CHIP	22PF 5% 50V
C111	1-162-967-11	CERAMIC CHIP	0.0033uF 10% 50V	C251	1-162-969-11	CERAMIC CHIP	0.0068uF 10% 25V
C112	1-164-315-11	CERAMIC CHIP	470PF 5% 50V	C252	1-164-360-11	CERAMIC CHIP	0.1uF 16V
C113	1-162-967-11	CERAMIC CHIP	0.0033uF 10% 50V	C255	1-164-360-11	CERAMIC CHIP	0.1uF 16V
C114	1-164-315-11	CERAMIC CHIP	470PF 5% 50V	C257	1-164-360-11	CERAMIC CHIP	0.1uF 16V
C115	1-164-360-11	CERAMIC CHIP	0.1uF 16V	C258	1-164-360-11	CERAMIC CHIP	0.1uF 16V
C116	1-128-995-21	ELECT CHIP	100uF 20% 10V	C259	1-164-360-11	CERAMIC CHIP	0.1uF 16V
C122	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	C260	1-128-394-11	ELECT CHIP	220uF 20% 10V
C123	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	C302	1-164-360-11	CERAMIC CHIP	0.1uF 16V
C124	1-162-959-11	CERAMIC CHIP	330PF 5% 50V	C303	1-164-360-11	CERAMIC CHIP	0.1uF 16V
C125	1-164-360-11	CERAMIC CHIP	0.1uF 16V	C305	1-126-246-11	ELECT CHIP	220uF 20% 4V
C131	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	C306	1-164-360-11	CERAMIC CHIP	0.1uF 16V
C132	1-117-863-11	CERAMIC CHIP	0.47uF 10% 6.3V	C307	1-164-360-11	CERAMIC CHIP	0.1uF 16V
C133	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	C308	1-126-208-21	ELECT CHIP	47uF 20% 4V
C134	1-164-360-11	CERAMIC CHIP	0.1uF 16V	C309	1-164-360-11	CERAMIC CHIP	0.1uF 16V
C141	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	C310	1-164-360-11	CERAMIC CHIP	0.1uF 16V
C142	1-162-965-11	CERAMIC CHIP	0.0015uF 10% 50V	C311	1-164-360-11	CERAMIC CHIP	0.1uF 16V
C143	1-164-360-11	CERAMIC CHIP	0.1uF 16V	C312	1-164-360-11	CERAMIC CHIP	0.1uF 16V
C151	1-128-995-21	ELECT CHIP	100uF 20% 10V	C313	1-164-360-11	CERAMIC CHIP	0.1uF 16V
C161	1-164-360-11	CERAMIC CHIP	0.1uF 16V	C314	1-126-208-21	ELECT CHIP	47uF 20% 4V
C162	1-164-360-11	CERAMIC CHIP	0.1uF 16V	C315	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C163	1-164-360-11	CERAMIC CHIP	0.1uF 16V	C316	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V
C171	1-162-919-11	CERAMIC CHIP	22PF 5% 50V	C317	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C172	1-162-920-11	CERAMIC CHIP	27PF 5% 50V	C318	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C174	1-164-360-11	CERAMIC CHIP	0.1uF 16V	C320	1-216-864-11	SHORT CHIP	0
C181	1-164-360-11	CERAMIC CHIP	0.1uF 16V			< CONNECTOR >	
C182	1-164-360-11	CERAMIC CHIP	0.1uF 16V	CN101	1-770-425-51	CONNECTOR, FFC/FPC 16P	
C183	1-124-778-00	ELECT CHIP	22uF 20% 6.3V	CN201	1-818-350-51	CONNECTOR, FFC (LIF(NON-ZIF)) 27P	
C184	1-124-778-00	ELECT CHIP	22uF 20% 6.3V			< FERRITE BEAD >	
C185	1-164-315-11	CERAMIC CHIP	470PF 5% 50V	FB301	1-500-445-21	FERRITE, EMI (SMD) (2012)	
C186	1-164-315-11	CERAMIC CHIP	470PF 5% 50V			< IC >	
C194	1-164-360-11	CERAMIC CHIP	0.1uF 16V	IC101	8-752-425-12	IC CXD3059AR	
C195	1-164-360-11	CERAMIC CHIP	0.1uF 16V	IC251	6-705-808-01	IC BA5947FM-E2	
C196	1-164-360-11	CERAMIC CHIP	0.1uF 16V	IC301	6-705-365-01	IC TC94A34FG-002	
				IC303	6-705-807-01	IC BH15FB1WG	

HCD-ZX9

BD81A **CD-L** **CD-R**

Ref.No.	Part.No.	Description	Remark
< TRANSISTOR >			
Q10	6-551-120-01	TRANSISTOR 2SA2119K	
< RESISTOR >			
R10	1-216-791-11	METAL CHIP 3.3	5% 1/10W
R11	1-216-864-11	SHORT CHIP 0	
R12	1-216-845-11	METAL CHIP 100K	5% 1/10W
R13	1-218-446-11	METAL CHIP 1	5% 1/10W
R111	1-216-821-11	METAL CHIP 1K	5% 1/10W
R112	1-216-835-11	METAL CHIP 15K	5% 1/10W
R113	1-216-821-11	METAL CHIP 1K	5% 1/10W
R114	1-216-835-11	METAL CHIP 15K	5% 1/10W
R121	1-216-835-11	METAL CHIP 15K	5% 1/10W
R131	1-216-857-11	METAL CHIP 1M	5% 1/10W
R132	1-216-833-11	METAL CHIP 10K	5% 1/10W
R133	1-216-848-11	METAL CHIP 180K	5% 1/10W
R141	1-216-829-11	METAL CHIP 4.7K	5% 1/10W
R142	1-216-821-11	METAL CHIP 1K	5% 1/10W
R143	1-216-827-11	METAL CHIP 3.3K	5% 1/10W
R151	1-216-864-11	SHORT CHIP 0	
R161	1-216-809-11	METAL CHIP 100	5% 1/10W
R162	1-216-841-11	METAL CHIP 47K	5% 1/10W
R163	1-216-809-11	METAL CHIP 100	5% 1/10W
R165	1-216-864-11	SHORT CHIP 0	
R171	1-216-817-11	METAL CHIP 470	5% 1/10W
R172	1-216-857-11	METAL CHIP 1M	5% 1/10W
R173	1-216-295-11	SHORT CHIP 0	
R181	1-216-809-11	METAL CHIP 100	5% 1/10W
R182	1-216-809-11	METAL CHIP 100	5% 1/10W
R191	1-216-864-11	SHORT CHIP 0	
R201	1-500-445-21	FERRITE, EMI (SMD) (2012)	
R203	1-216-864-11	SHORT CHIP 0	
R204	1-500-445-21	FERRITE, EMI (SMD) (2012)	
R205	1-216-864-11	SHORT CHIP 0	
R251	1-216-833-11	METAL CHIP 10K	5% 1/10W
R252	1-216-837-11	METAL CHIP 22K	5% 1/10W
R253	1-216-833-11	METAL CHIP 10K	5% 1/10W
R301	1-216-845-11	METAL CHIP 100K	5% 1/10W
R302	1-216-833-11	METAL CHIP 10K	5% 1/10W
R303	1-216-845-11	METAL CHIP 100K	5% 1/10W
R305	1-216-845-11	METAL CHIP 100K	5% 1/10W
R306	1-216-864-11	SHORT CHIP 0	
R307	1-216-833-11	METAL CHIP 10K	5% 1/10W
R313	1-216-813-11	METAL CHIP 220	5% 1/10W
R351	1-216-809-11	METAL CHIP 100	5% 1/10W
R352	1-216-809-11	METAL CHIP 100	5% 1/10W
R353	1-216-809-11	METAL CHIP 100	5% 1/10W
R354	1-216-809-11	METAL CHIP 100	5% 1/10W
R401	1-216-809-11	METAL CHIP 100	5% 1/10W
R402	1-216-809-11	METAL CHIP 100	5% 1/10W
R403	1-216-809-11	METAL CHIP 100	5% 1/10W
R404	1-216-809-11	METAL CHIP 100	5% 1/10W
R405	1-216-809-11	METAL CHIP 100	5% 1/10W
R406	1-216-809-11	METAL CHIP 100	5% 1/10W
R407	1-216-809-11	METAL CHIP 100	5% 1/10W
R408	1-216-809-11	METAL CHIP 100	5% 1/10W
R409	1-216-809-11	METAL CHIP 100	5% 1/10W

Ref.No.	Part.No.	Description	Remark
R410	1-216-809-11	METAL CHIP 100	5% 1/10W
R411	1-216-809-11	METAL CHIP 100	5% 1/10W
R412	1-216-809-11	METAL CHIP 100	5% 1/10W
R419	1-216-809-11	METAL CHIP 100	5% 1/10W
< VIBRATOR >			
X171	1-767-408-21	VIBRATOR, CRYSTAL (16.9344MHz)	

CD-L BOARD			

< CONNECTOR >			
CN911	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P	
< RESISTOR >			
R834	1-216-835-11	METAL CHIP 15K	5% 1/10W
R866	1-216-839-11	METAL CHIP 33K	5% 1/10W
R896	1-216-837-11	METAL CHIP 22K	5% 1/10W
< SWITCH >			
S937	1-771-410-21	SWITCH, TACTILE (EDIT)	
S938	1-771-410-21	SWITCH, TACTILE (REPEAT)	
S939	1-771-410-21	SWITCH, TACTILE (PLAY MODE)	

CD-R BOARD			

< DIODE >			
D926	8-719-060-27	LED SLR-325MCT31 (▶▶)	
< TRANSISTOR >			
Q917	8-729-027-43	TRANSISTOR DTC114EKA-T146	
< RESISTOR >			
R872	1-216-827-11	METAL CHIP 3.3K	5% 1/10W
R873	1-216-829-11	METAL CHIP 4.7K	5% 1/10W
R874	1-218-867-11	METAL CHIP 6.8K	0.5% 1/10W
R875	1-216-833-11	METAL CHIP 10K	5% 1/10W
R876	1-216-835-11	METAL CHIP 15K	5% 1/10W
R877	1-216-837-11	METAL CHIP 22K	5% 1/10W
R878	1-216-819-11	METAL CHIP 680	5% 1/10W
R879	1-216-819-11	METAL CHIP 680	5% 1/10W
R881	1-216-809-11	METAL CHIP 100	5% 1/10W
< SWITCH >			
S950	1-771-410-21	SWITCH, TACTILE (▶▶)	
S951	1-771-410-21	SWITCH, TACTILE (<<)	
S952	1-771-410-21	SWITCH, TACTILE (▶▶)	
S953	1-771-410-21	SWITCH, TACTILE (◀◀)	
S954	1-771-410-21	SWITCH, TACTILE (■)	
S955	1-771-410-21	SWITCH, TACTILE (▶▶)	

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		CURSOR BOARD *****		C965	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
		< RESISTOR >				< DIODE >	
R978	1-216-833-11	METAL CHIP 10K 5% 1/10W		D925	8-719-061-96	LED SLR-325DCT31 (X-ROUND ON/OFF)	
R979	1-216-835-11	METAL CHIP 15K 5% 1/10W				< TRANSISTOR >	
R980	1-216-837-11	METAL CHIP 22K 5% 1/10W		Q916	8-729-027-43	TRANSISTOR DTC114EKA-T146	
R981	1-216-839-11	METAL CHIP 33K 5% 1/10W				< RESISTOR >	
R982	1-216-843-11	METAL CHIP 68K 5% 1/10W		R871	1-216-809-11	METAL CHIP 100 5% 1/10W	
		< SWITCH >		R882	1-216-819-11	METAL CHIP 680 5% 1/10W	
S970	1-771-879-11	SWITCH, TACTILE (ENTER)		R883	1-216-817-11	METAL CHIP 470 5% 1/10W	
*****				R884	1-216-821-11	METAL CHIP 1K 5% 1/10W	
		FUNCTION SW BOARD *****		R885	1-216-823-11	METAL CHIP 1.5K 5% 1/10W	
		< RESISTOR >		R886	1-216-823-11	METAL CHIP 1.5K 5% 1/10W	
R832	1-216-837-11	METAL CHIP 22K 5% 1/10W		R887	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
		< SWITCH >		R888	1-216-819-11	METAL CHIP 680 5% 1/10W	
S930	1-771-410-21	SWITCH, TACTILE (FUNCTION)		R889	1-216-827-11	METAL CHIP 3.3K 5% 1/10W	
*****				R890	1-216-819-11	METAL CHIP 680 5% 1/10W	
A-4753-550-A		GAME-IN/HP BOARD, COMPLETE *****		R891	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
		< CAPACITOR >		R893	1-218-867-11	METAL CHIP 6.8K 0.5% 1/10W	
C840	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		R894	1-216-833-11	METAL CHIP 10K 5% 1/10W	
C841	1-216-864-11	SHORT CHIP 0		R895	1-216-835-11	METAL CHIP 15K 5% 1/10W	
C842	1-216-864-11	SHORT CHIP 0				< SWITCH >	
		< CONNECTOR >		S956	1-771-410-21	SWITCH, TACTILE (DISC 1)	
* CN801	1-564-720-11	PIN, CONNECTOR (SMALL TYPE) 4P		S957	1-478-133-11	ENCODER, ROTARY (JOG)	
CN802	1-785-328-11	PIN, CONNECTOR (LIGHT ANGLE) 2P		S958	1-771-410-21	SWITCH, TACTILE (DISC 2)	
CN803	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P		S959	1-771-410-21	SWITCH, TACTILE (DISC 3)	
		< GROUND TERMINAL >		S960	1-771-410-21	SWITCH, TACTILE (DISC 4)	
EPT803	1-537-738-21	TERMINAL, GROUND		S961	1-771-410-21	SWITCH, TACTILE (DISC 5)	
EPT804	1-537-738-21	TERMINAL, GROUND		S962	1-771-410-21	SWITCH, TACTILE (▲ OPEN/CLOSE)	
		< JACK >		S963	1-771-410-21	SWITCH, TACTILE (EX-CHANGE)	
J850	1-764-592-11	JACK, PIN 3P (GAME INPUT VIDEO,AUDIO L/R)		S964	1-771-410-21	SWITCH, TACTILE (DISC SKIP)	
J851	1-770-226-11	JACK (LARGE TYPE) (PHONES)		S965	1-771-410-21	SWITCH, TACTILE (FLASH)	
		< RESISTOR >		S966	1-771-410-21	SWITCH, TACTILE (MODE SPEAKER)	
R826	1-216-809-11	METAL CHIP 100 5% 1/10W		S967	1-771-410-21	SWITCH, TACTILE (X-ROUND ON/OFF)	
R827	1-216-845-11	METAL CHIP 100K 5% 1/10W		*****			
R828	1-216-845-11	METAL CHIP 100K 5% 1/10W				LIGHTING BOARD *****	
R829	1-216-821-11	METAL CHIP 1K 5% 1/10W				< CAPACITOR >	
R830	1-216-821-11	METAL CHIP 1K 5% 1/10W		C06	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
*****				C07	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
A-1053-210-A		JOG BOARD, COMPLETE (MX)				< CONNECTOR >	
A-4751-078-A		JOG BOARD, COMPLETE (US) *****		CN01	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P	
		< CAPACITOR >				< DIODE >	
C964	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V		D01	6-501-193-01	DIODE 1SS355WTE-17	
				D02	6-501-193-01	DIODE 1SS355WTE-17	
				D03	8-719-083-60	DIODE UDZSTE-174.7B	
						< CONNECTOR >	
				J01	1-820-048-11	CONNECTOR (LIGHTING)	

HCD-ZX9

Ver. 1.1

LIGHTING **MAIN**

Ref.No.	Part No.	Description	Remark		
< TRANSISTOR >					
Q01	8-729-056-46	TRANSISTOR 2SC5053T100Q			
< RESISTOR >					
R01	1-216-809-11	METAL CHIP	100	5%	1/10W
R03	1-216-819-11	METAL CHIP	680	5%	1/10W
R05	1-216-864-11	SHORT CHIP	0		

A-1198-352-A MAIN BOARD, COMPLETE (MX)					
A-1227-336-A MAIN BOARD, COMPLETE (US)					

7-685-646-79 SCREW +BVTP 3X8 TYPE2 N-S					
< CAPACITOR >					
C101	1-126-964-11	ELECT	10uF	20%	50V
C102	1-126-964-11	ELECT	10uF	20%	50V
C103	1-126-964-11	ELECT	10uF	20%	50V
C104	1-126-964-11	ELECT	10uF	20%	50V
C105	1-126-964-11	ELECT	10uF	20%	50V
C106	1-126-960-11	ELECT	1uF	20%	50V
C107	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C108	1-126-947-11	ELECT	47uF	20%	35V
C109	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C110	1-126-964-11	ELECT	10uF	20%	50V
C111	1-126-959-11	ELECT	0.47uF	20%	50V
C112	1-126-964-11	ELECT	10uF	20%	50V
C115	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C116	1-126-933-11	ELECT	100uF	20%	16V
C117	1-126-961-11	ELECT	2.2uF	20%	50V
C118	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C119	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C120	1-126-964-11	ELECT	10uF	20%	50V
C121	1-100-436-11	CERAMIC CHIP	0.033uF	10%	25V
C122	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C123	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C124	1-126-964-11	ELECT	10uF	20%	50V
C126	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C128	1-126-959-11	ELECT	0.47uF	20%	50V
C133	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C134	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C135	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C136	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C137	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C138	1-137-194-81	FILM	0.47uF	5%	50V
C139	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C140	1-136-170-00	FILM	0.27uF	5%	50V
C141	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C142	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C143	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C144	1-100-436-11	CERAMIC CHIP	0.033uF	10%	25V
C145	1-126-964-11	ELECT	10uF	20%	50V
C146	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C147	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C148	1-126-961-11	ELECT	2.2uF	20%	50V
C149	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C150	1-164-156-11	CERAMIC CHIP	0.1uF		25V

Ref.No.	Part No.	Description	Remark		
C151	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C152	1-137-427-11	MYLAR	120PF	5%	50V
C153	1-126-964-11	ELECT	10uF	20%	50V
C154	1-137-427-11	MYLAR	120PF	5%	50V
C155	1-136-495-11	FILM	0.068uF	5%	50V
C156	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C157	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C158	1-137-194-81	FILM	0.47uF	5%	50V
C159	1-126-964-11	ELECT	10uF	20%	50V
C160	1-126-960-11	ELECT	1uF	20%	50V
C161	1-126-964-11	ELECT	10uF	20%	50V
C162	1-126-964-11	ELECT	10uF	20%	50V
C163	1-126-964-11	ELECT	10uF	20%	50V
C164	1-126-964-11	ELECT	10uF	20%	50V
C165	1-126-964-11	ELECT	10uF	20%	50V
C166	1-126-964-11	ELECT	10uF	20%	50V
C167	1-126-960-11	ELECT	1uF	20%	50V
C168	1-130-483-00	MYLAR	0.01uF	5%	50V
C169	1-126-947-11	ELECT	47uF	20%	35V
C170	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C171	1-136-170-00	FILM	0.27uF	5%	50V
C172	1-126-933-11	ELECT	100uF	20%	16V
C173	1-126-933-11	ELECT	100uF	20%	16V
C174	1-126-935-11	ELECT	470uF	20%	16V
C175	1-137-194-81	FILM	0.47uF	5%	50V
C176	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C177	1-126-947-11	ELECT	47uF	20%	35V
C178	1-126-960-11	ELECT	1uF	20%	50V
C179	1-130-483-00	MYLAR	0.01uF	5%	50V
C180	1-126-964-11	ELECT	10uF	20%	50V
C182	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C186	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C187	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C191	1-137-150-11	FILM	0.01uF	5%	100V
C192	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C194	1-130-481-00	MYLAR	0.0068uF	5%	50V
C195	1-126-965-11	ELECT	22uF	20%	50V
C196	1-126-947-11	ELECT	47uF	20%	35V
C200	1-104-658-11	ELECT	100uF	20%	10V
C204	1-126-964-11	ELECT	10uF	20%	50V
C205	1-126-964-11	ELECT	10uF	20%	50V
C219	1-104-658-11	ELECT	100uF	20%	10V
C220	1-137-189-11	FILM	0.18uF	5%	50V
C221	1-137-193-11	FILM	0.39uF	5%	50V
C222	1-137-189-11	FILM	0.18uF	5%	50V
C223	1-137-193-11	FILM	0.39uF	5%	50V
C226	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C227	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C233	1-126-964-11	ELECT	10uF	20%	50V
C235	1-126-964-11	ELECT	10uF	20%	50V
C236	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C237	1-126-964-11	ELECT	10uF	20%	50V
C238	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C241	1-126-964-11	ELECT	10uF	20%	50V
C242	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C243	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C251	1-126-923-11	ELECT	220uF	20%	10V
C300	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V

Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Description		Remark
C301	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C524	1-162-957-11	CERAMIC CHIP	220PF	5% 50V
C302	1-126-947-11	ELECT	47uF	20% 35V	C525	1-126-964-11	ELECT	10uF	20% 50V
C303	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C526	1-126-964-11	ELECT	10uF	20% 50V
C304	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V	C527	1-164-156-11	CERAMIC CHIP	0.1uF	25V
C305	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C528	1-164-156-11	CERAMIC CHIP	0.1uF	25V
C306	1-126-947-11	ELECT	47uF	20% 35V	C529	1-164-156-11	CERAMIC CHIP	0.1uF	25V
C307	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C530	1-126-963-11	ELECT	4.7uF	20% 50V
C318	1-126-964-11	ELECT	10uF	20% 50V	C531	1-126-963-11	ELECT	4.7uF	20% 50V
C319	1-126-964-11	ELECT	10uF	20% 50V	C532	1-126-960-11	ELECT	1uF	20% 50V
C320	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C533	1-126-960-11	ELECT	1uF	20% 50V
C321	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C534	1-126-960-11	ELECT	1uF	20% 50V
C322	1-126-925-11	ELECT	470uF	20% 10V	C535	1-126-960-11	ELECT	1uF	20% 50V
C324	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C538	1-126-960-11	ELECT	1uF	20% 50V
C325	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C539	1-126-960-11	ELECT	1uF	20% 50V
C328	1-162-960-11	CERAMIC CHIP	220PF	10% 50V	C543	1-107-714-11	ELECT	10uF	20% 50V
C329	1-162-923-11	CERAMIC CHIP	47PF	5% 50V	C555	1-104-658-11	ELECT	100uF	20% 10V
C341	1-100-566-11	CERAMIC CHIP	0.1uF	10% 25V	C586	1-164-156-11	CERAMIC CHIP	0.1uF	25V
C342	1-126-916-11	ELECT	1000uF	20% 6.3V	C587	1-164-156-11	CERAMIC CHIP	0.1uF	25V
C386	1-164-227-11	CERAMIC CHIP	0.022uF	10% 25V	C590	1-128-548-11	ELECT	4700uF	20% 25V
C387	1-164-227-11	CERAMIC CHIP	0.022uF	10% 25V	C591	1-104-658-11	ELECT	100uF	20% 10V
C395	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C593	1-126-933-11	ELECT	100uF	20% 16V
C402	1-126-964-11	ELECT	10uF	20% 50V	C594	1-164-156-11	CERAMIC CHIP	0.1uF	25V
C403	1-136-497-81	FILM	0.1uF	5% 50V	C595	1-164-156-11	CERAMIC CHIP	0.1uF	25V
C404	1-136-497-81	FILM	0.1uF	5% 50V	C597	1-130-483-00	MYLAR	0.01uF	5% 50V
C410	1-162-919-11	CERAMIC CHIP	22PF	5% 50V	C598	1-130-483-00	MYLAR	0.01uF	5% 50V
C411	1-162-917-11	CERAMIC CHIP	15PF	5% 50V			< CONNECTOR >		
C412	1-164-156-11	CERAMIC CHIP	0.1uF	25V	* CN104	1-569-930-11	SOCKET, CONNECTOR 13P		
C414	1-164-156-11	CERAMIC CHIP	0.1uF	25V	CN501	1-779-295-11	CONNECTOR, FFC (LIF(NON-ZIF)) 27P		
C416	1-126-916-11	ELECT	1000uF	20% 6.3V	CN502	1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P		
C462	1-104-658-11	ELECT	100uF	20% 10V	CN504	1-569-906-11	SOCKET, CONNECTOR 11P		
C464	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V	CN505	1-778-982-11	CONNECTOR, BOARD TO BOARD 13P		
C497	1-164-156-11	CERAMIC CHIP	0.1uF	25V	CN506	1-778-982-11	CONNECTOR, BOARD TO BOARD 13P		
C498	1-126-964-11	ELECT	10uF	20% 50V	CN507	1-568-838-11	CONNECTOR, FFC 21P		
C499	1-164-156-11	CERAMIC CHIP	0.1uF	25V	CN509	1-785-323-11	PIN, CONNECTOR (STRAIGHT) 11P		
C500	1-126-947-11	ELECT	47uF	20% 35V	CN513	1-564-506-11	PLUG, CONNECTOR 3P		
C501	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V			< DIODE >		
C502	1-126-947-11	ELECT	47uF	20% 35V	D192	8-719-404-50	DIODE MA111-TX		
C503	1-136-159-00	FILM	0.033uF	5% 50V	D193	8-719-404-50	DIODE MA111-TX		
C504	1-136-159-00	FILM	0.033uF	5% 50V	D194	8-719-404-50	DIODE MA111-TX		
C505	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V	D402	8-719-404-50	DIODE MA111-TX		
C506	1-126-933-11	ELECT	100uF	20% 16V	D403	8-719-404-50	DIODE MA111-TX		
C507	1-130-473-00	MYLAR	0.0015uF	5% 50V	D404	8-719-404-50	DIODE MA111-TX		
C508	1-130-473-00	MYLAR	0.0015uF	5% 50V	D405	8-719-404-50	DIODE MA111-TX		
C509	1-130-479-00	MYLAR	0.0047uF	5% 50V	D406	8-719-404-50	DIODE MA111-TX		
C510	1-130-479-00	MYLAR	0.0047uF	5% 50V	D407	8-719-404-50	DIODE MA111-TX		
C511	1-162-953-11	CERAMIC CHIP	100PF	5% 50V	D408	6-500-522-21	DIODE 10EDB40-TB3		
C512	1-126-961-11	ELECT	2.2uF	20% 50V	D501	8-719-028-23	DIODE D3SBA20-4101		
C513	1-126-961-11	ELECT	2.2uF	20% 50V	D503	6-500-522-21	DIODE 10EDB40-TB3		
C514	1-162-953-11	CERAMIC CHIP	100PF	5% 50V	D504	6-500-522-21	DIODE 10EDB40-TB3		
C515	1-126-964-11	ELECT	10uF	20% 50V	D506	6-500-522-21	DIODE 10EDB40-TB3		
C516	1-126-964-11	ELECT	10uF	20% 50V	D554	8-719-083-63	DIODE UDJSTE-1713B		
C517	1-162-953-11	CERAMIC CHIP	100PF	5% 50V			< GROUND TERMINAL >		
C518	1-162-953-11	CERAMIC CHIP	100PF	5% 50V	EPT501	1-537-738-21	TERMINAL, GROUND		
C519	1-162-957-11	CERAMIC CHIP	220PF	5% 50V					
C520	1-162-957-11	CERAMIC CHIP	220PF	5% 50V					
C521	1-162-961-11	CERAMIC CHIP	330PF	10% 50V					
C522	1-162-961-11	CERAMIC CHIP	330PF	10% 50V					
C523	1-162-957-11	CERAMIC CHIP	220PF	5% 50V					

HCD-ZX9

Ver. 1.1

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
< FERRITE BEAD >				JR212	1-216-864-11	SHORT CHIP	0
FB300	1-469-152-11	FERRITE, EMI (SMD) (2012)		JR213	1-216-296-11	SHORT CHIP	0
FB301	1-469-152-11	FERRITE, EMI (SMD) (2012)		JR215	1-216-296-11	SHORT CHIP	0
FB302	1-216-864-11	SHORT CHIP	0	JR216	1-216-296-11	SHORT CHIP	0
FB303	1-469-152-11	FERRITE, EMI (SMD) (2012)		JR218	1-216-864-11	SHORT CHIP	0
FB304	1-216-864-11	SHORT CHIP	0	JR300	1-216-296-11	SHORT CHIP	0
FB305	1-216-864-11	SHORT CHIP	0	JR400	1-216-296-11	SHORT CHIP	0
FB306	1-216-864-11	SHORT CHIP	0	JR401	1-216-296-11	SHORT CHIP	0
FB416	1-414-864-11	FERRITE, EMI (SMD) (1608)		JR402	1-216-864-11	SHORT CHIP	0
FB462	1-414-864-11	FERRITE, EMI (SMD) (1608)		JR403	1-216-864-11	SHORT CHIP	0
FB500	1-216-864-11	SHORT CHIP	0	JR404	1-216-864-11	SHORT CHIP	0
FB501	1-216-864-11	SHORT CHIP	0	JR405	1-216-296-11	SHORT CHIP	0
FB502	1-216-864-11	SHORT CHIP	0	JR406	1-216-296-11	SHORT CHIP	0
FB503	1-216-864-11	SHORT CHIP	0	JR407	1-216-296-11	SHORT CHIP	0
FB555	1-216-864-11	SHORT CHIP	0	JR408	1-216-296-11	SHORT CHIP	0
< IC >				JR409	1-216-296-11	SHORT CHIP	0
IC101	6-705-667-01	IC M61537FP-RF0G		JR440	1-216-864-11	SHORT CHIP	0
IC401	6-804-699-01	IC M3062CMEN-A17FPUO		JR441	1-216-864-11	SHORT CHIP	0
IC402	6-705-809-01	IC BD4929G-TR		JR475	1-216-296-11	SHORT CHIP	0
IC501	6-703-651-11	IC M61530FP-D60G		JR500	1-216-296-11	SHORT CHIP	0
IC503	6-600-465-11	IC TOTX147 (CD DIGITAL OUT (OPTICAL))		JR501	1-216-864-11	SHORT CHIP	0
IC510	6-703-550-01	IC TA7809LS		JR502	1-216-296-11	SHORT CHIP	0
IC511	6-703-550-01	IC TA7809LS		JR503	1-216-296-11	SHORT CHIP	0
IC513	6-702-771-01	IC TA78033LS		JR504	1-216-296-11	SHORT CHIP	0
IC514	8-759-598-69	IC BA6956AN		JR505	1-216-296-11	SHORT CHIP	0
IC515	8-759-598-69	IC BA6956AN		JR506	1-216-864-11	SHORT CHIP	0
IC519	8-759-710-97	IC NJM4565M-D		JR509	1-216-864-11	SHORT CHIP	0
< JACK >				JR510	1-216-296-11	SHORT CHIP	0
J701	1-774-411-11	JACK, PIN 6P (PHONO IN L/R, VIDEO/MD IN L/R,VIDEO/MD OUT L/R)		JR515	1-216-864-11	SHORT CHIP	0
J716	1-794-970-11	JACK, PIN 1P (VIDEO OUT)		JR517	1-216-864-11	SHORT CHIP	0
< JUMPER RESISTOR >				JR518	1-216-864-11	SHORT CHIP	0
JR100	1-216-864-11	SHORT CHIP	0	JR519	1-216-864-11	SHORT CHIP	0
JR101	1-216-864-11	SHORT CHIP	0	JR553	1-216-864-11	SHORT CHIP	0
JR105	1-216-864-11	SHORT CHIP	0	< COIL >			
JR107	1-216-296-11	SHORT CHIP	0	L102	1-412-064-11	INDUCTOR	100uH
JR109	1-216-296-11	SHORT CHIP	0	L103	1-410-780-11	INDUCTOR	27mH
JR110	1-216-296-11	SHORT CHIP	0	L104	1-410-780-11	INDUCTOR	27mH
JR111	1-216-864-11	SHORT CHIP	0	L300	1-412-058-11	INDUCTOR	10uH
JR112	1-216-864-11	SHORT CHIP	0	< TRANSISTOR >			
JR113	1-216-864-11	SHORT CHIP	0	Q101	8-729-141-75	TRANSISTOR	2SD596DV345
JR114	1-216-864-11	SHORT CHIP	0	Q102	8-729-802-80	TRANSISTOR	2SC3661
JR115	1-216-864-11	SHORT CHIP	0	Q103	8-729-802-80	TRANSISTOR	2SC3661
JR116	1-216-864-11	SHORT CHIP	0	Q104	6-550-185-01	TRANSISTOR	RT1P137P-TP-1
JR118	1-216-296-11	SHORT CHIP	0	Q105	8-729-027-43	TRANSISTOR	DTC114EKA-T146
JR119	1-216-864-11	SHORT CHIP	0	Q106	8-729-027-43	TRANSISTOR	DTC114EKA-T146
JR121	1-216-864-11	SHORT CHIP	0	Q107	8-729-027-31	TRANSISTOR	DTA124EKA-T146
JR131	1-216-864-11	SHORT CHIP	0	Q108	8-729-027-43	TRANSISTOR	DTC114EKA-T146
JR205	1-216-296-11	SHORT CHIP	0	Q109	8-729-027-43	TRANSISTOR	DTC114EKA-T146
JR207	1-216-864-11	SHORT CHIP	0	Q110	8-729-216-22	TRANSISTOR	2SA812-T1-M5M6
JR208	1-216-296-11	SHORT CHIP	0	Q111	8-729-802-80	TRANSISTOR	2SC3661
JR209	1-216-296-11	SHORT CHIP	0	Q112	8-729-802-80	TRANSISTOR	2SC3661
JR210	1-216-296-11	SHORT CHIP	0	Q113	8-729-802-80	TRANSISTOR	2SC3661
JR211	1-216-296-11	SHORT CHIP	0	Q114	8-729-802-80	TRANSISTOR	2SC3661
				Q115	6-550-889-01	TRANSISTOR	2SC5938-T112-1B
				Q116	6-550-889-01	TRANSISTOR	2SC5938-T112-1B
				Q140	8-729-120-28	TRANSISTOR	2SC1623-L5L6

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
Q145	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R119	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q165	6-550-889-01	TRANSISTOR	2SC5938-T112-1B	R120	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q180	6-550-889-01	TRANSISTOR	2SC5938-T112-1B	R121	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q190	8-729-027-43	TRANSISTOR	DTC114EKA-T146	R122	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
Q191	8-729-903-46	TRANSISTOR	2SB1132-P	R123	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q192	8-729-027-43	TRANSISTOR	DTC114EKA-T146	R124	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
Q193	8-729-903-46	TRANSISTOR	2SB1132-P	R125	1-216-841-11	METAL CHIP	47K 5% 1/10W
Q194	8-729-027-43	TRANSISTOR	DTC114EKA-T146	R126	1-216-817-11	METAL CHIP	470 5% 1/10W
Q195	8-729-027-43	TRANSISTOR	DTC114EKA-T146	R127	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
Q196	8-729-903-46	TRANSISTOR	2SB1132-P	R128	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
Q198	8-729-027-43	TRANSISTOR	DTC114EKA-T146	R129	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
Q199	6-550-889-01	TRANSISTOR	2SC5938-T112-1B	R132	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W
Q200	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R133	1-216-857-11	METAL CHIP	1M 5% 1/10W
Q201	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R134	1-216-817-11	METAL CHIP	470 5% 1/10W
Q203	6-550-889-01	TRANSISTOR	2SC5938-T112-1B	R135	1-216-817-11	METAL CHIP	470 5% 1/10W
Q204	6-550-889-01	TRANSISTOR	2SC5938-T112-1B	R136	1-216-830-11	METAL CHIP	5.6K 5% 1/10W
Q401	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R137	1-216-830-11	METAL CHIP	5.6K 5% 1/10W
Q523	6-550-889-01	TRANSISTOR	2SC5938-T112-1B	R138	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
Q524	6-550-889-01	TRANSISTOR	2SC5938-T112-1B	R139	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
Q528	8-729-027-43	TRANSISTOR	DTC114EKA-T146	R140	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q529	8-729-027-31	TRANSISTOR	DTA124EKA-T146	R141	1-216-841-11	METAL CHIP	47K 5% 1/10W
Q530	8-729-027-43	TRANSISTOR	DTC114EKA-T146	R142	1-216-838-11	METAL CHIP	27K 5% 1/10W
Q533	8-729-027-31	TRANSISTOR	DTA124EKA-T146	R143	1-216-838-11	METAL CHIP	27K 5% 1/10W
Q534	8-729-027-43	TRANSISTOR	DTC114EKA-T146	R145	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q535	8-729-027-31	TRANSISTOR	DTA124EKA-T146	R147	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
Q536	8-729-027-43	TRANSISTOR	DTC114EKA-T146	R148	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
Q537	8-729-027-31	TRANSISTOR	DTA124EKA-T146	R150	1-216-821-11	METAL CHIP	1K 5% 1/10W
Q538	8-729-027-43	TRANSISTOR	DTC114EKA-T146	R151	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q539	8-729-027-43	TRANSISTOR	DTC114EKA-T146	R152	1-216-809-11	METAL CHIP	100 5% 1/10W
Q540	8-729-027-31	TRANSISTOR	DTA124EKA-T146	R154	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q550	6-550-889-01	TRANSISTOR	2SC5938-T112-1B	R155	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q551	6-550-889-01	TRANSISTOR	2SC5938-T112-1B	R156	1-216-805-11	METAL CHIP	47 5% 1/10W
Q552	6-550-185-01	TRANSISTOR	RT1P137P-TP-1	R157	1-216-797-11	METAL CHIP	10 5% 1/10W
Q553	8-729-026-68	TRANSISTOR	2SD2525(TP)	R158	1-216-803-11	METAL CHIP	33 5% 1/10W
Q554	8-729-027-43	TRANSISTOR	DTC114EKA-T146	R159	1-216-864-11	SHORT CHIP	0
Q555	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R160	1-216-841-11	METAL CHIP	47K 5% 1/10W
Q557	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R161	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W
Q563	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R162	1-216-857-11	METAL CHIP	1M 5% 1/10W
Q870	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R164	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
		< RESISTOR >		R165	1-216-841-11	METAL CHIP	47K 5% 1/10W
R101	1-216-841-11	METAL CHIP	47K 5% 1/10W	R166	1-216-821-11	METAL CHIP	1K 5% 1/10W
R102	1-216-864-11	SHORT CHIP	0	R167	1-216-834-11	METAL CHIP	12K 5% 1/10W
R103	1-216-864-11	SHORT CHIP	0	R168	1-216-851-11	METAL CHIP	330K 5% 1/10W
R104	1-216-833-11	METAL CHIP	10K 5% 1/10W	R169	1-216-812-11	METAL CHIP	180 5% 1/10W
R105	1-216-833-11	METAL CHIP	10K 5% 1/10W	R170	1-216-864-11	SHORT CHIP	0
R106	1-216-817-11	METAL CHIP	470 5% 1/10W	R171	1-216-821-11	METAL CHIP	1K 5% 1/10W
R107	1-216-821-11	METAL CHIP	1K 5% 1/10W	R172	1-216-864-11	SHORT CHIP	0
R108	1-216-838-11	METAL CHIP	27K 5% 1/10W	R173	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R109	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R174	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R110	1-216-835-11	METAL CHIP	15K 5% 1/10W	R175	1-216-819-11	METAL CHIP	680 5% 1/10W
R111	1-216-835-11	METAL CHIP	15K 5% 1/10W	R176	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
R112	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R177	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
R113	1-216-809-11	METAL CHIP	100 5% 1/10W	R178	1-216-851-11	METAL CHIP	330K 5% 1/10W
R114	1-216-833-11	METAL CHIP	10K 5% 1/10W	R179	1-216-834-11	METAL CHIP	12K 5% 1/10W
R115	1-216-821-11	METAL CHIP	1K 5% 1/10W	R180	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
R117	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R181	1-216-833-11	METAL CHIP	10K 5% 1/10W
R118	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R182	1-216-809-11	METAL CHIP	100 5% 1/10W
				R183	1-216-809-11	METAL CHIP	100 5% 1/10W

HCD-ZX9

MAIN

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R184	1-216-809-11	METAL CHIP	100	5%	1/10W	R309	1-216-821-11	METAL CHIP	1K	5%	1/10W
R185	1-216-809-11	METAL CHIP	100	5%	1/10W	R310	1-216-841-11	METAL CHIP	47K	5%	1/10W
R186	1-216-809-11	METAL CHIP	100	5%	1/10W	R311	1-216-809-11	METAL CHIP	100	5%	1/10W
R187	1-216-809-11	METAL CHIP	100	5%	1/10W	R312	1-216-809-11	METAL CHIP	100	5%	1/10W
R188	1-216-809-11	METAL CHIP	100	5%	1/10W	R313	1-216-809-11	METAL CHIP	100	5%	1/10W
R189	1-216-819-11	METAL CHIP	680	5%	1/10W	R314	1-216-797-11	METAL CHIP	10	5%	1/10W
R190	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R315	1-216-797-11	METAL CHIP	10	5%	1/10W
R191	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R316	1-216-809-11	METAL CHIP	100	5%	1/10W
R192	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R317	1-216-821-11	METAL CHIP	1K	5%	1/10W
R193	1-216-833-11	METAL CHIP	10K	5%	1/10W	R318	1-216-809-11	METAL CHIP	100	5%	1/10W
R194	1-216-819-11	METAL CHIP	680	5%	1/10W	R319	1-216-821-11	METAL CHIP	1K	5%	1/10W
R195	1-216-833-11	METAL CHIP	10K	5%	1/10W	R320	1-216-821-11	METAL CHIP	1K	5%	1/10W
R196	1-216-833-11	METAL CHIP	10K	5%	1/10W	R321	1-216-839-11	METAL CHIP	33K	5%	1/10W
R197	1-216-837-11	METAL CHIP	22K	5%	1/10W	R322	1-216-839-11	METAL CHIP	33K	5%	1/10W
R198	1-216-833-11	METAL CHIP	10K	5%	1/10W	R323	1-216-833-11	METAL CHIP	10K	5%	1/10W
R199	1-216-845-11	METAL CHIP	100K	5%	1/10W	R324	1-216-833-11	METAL CHIP	10K	5%	1/10W
R200	1-216-841-11	METAL CHIP	47K	5%	1/10W	R325	1-216-833-11	METAL CHIP	10K	5%	1/10W
R201	1-216-841-11	METAL CHIP	47K	5%	1/10W	R326	1-216-833-11	METAL CHIP	10K	5%	1/10W
R206	1-216-833-11	METAL CHIP	10K	5%	1/10W	R328	1-216-864-11	SHORT CHIP	0		
R207	1-216-833-11	METAL CHIP	10K	5%	1/10W	R331	1-216-821-11	METAL CHIP	1K	5%	1/10W
R214	1-220-373-11	METAL CHIP	620	5%	1/10W	R332	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R215	1-220-373-11	METAL CHIP	620	5%	1/10W	R341	1-216-812-11	METAL CHIP	180	5%	1/10W
R225	1-216-821-11	METAL CHIP	1K	5%	1/10W	R391	1-216-811-11	METAL CHIP	150	5%	1/10W
R226	1-216-841-11	METAL CHIP	47K	5%	1/10W	R393	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R227	1-216-833-11	METAL CHIP	10K	5%	1/10W	R395	1-216-809-11	METAL CHIP	100	5%	1/10W
R228	1-216-833-11	METAL CHIP	10K	5%	1/10W	R400	1-216-809-11	METAL CHIP	100	5%	1/10W
R229	1-216-821-11	METAL CHIP	1K	5%	1/10W	R401	1-216-837-11	METAL CHIP	22K	5%	1/10W
R231	1-216-841-11	METAL CHIP	47K	5%	1/10W	R402	1-216-809-11	METAL CHIP	100	5%	1/10W
R232	1-216-833-11	METAL CHIP	10K	5%	1/10W	R403	1-216-809-11	METAL CHIP	100	5%	1/10W
R234	1-216-833-11	METAL CHIP	10K	5%	1/10W	R404	1-216-809-11	METAL CHIP	100	5%	1/10W
R239	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R405	1-216-864-11	SHORT CHIP	0		
R240	1-216-841-11	METAL CHIP	47K	5%	1/10W	R406	1-216-864-11	SHORT CHIP	0		
R241	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R407	1-216-864-11	SHORT CHIP	0		
R245	1-216-841-11	METAL CHIP	47K	5%	1/10W	R409	1-216-833-11	METAL CHIP	10K	5%	1/10W
R247	1-216-841-11	METAL CHIP	47K	5%	1/10W	R411	1-216-851-11	METAL CHIP	330K	5%	1/10W
R248	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R412	1-216-833-11	METAL CHIP	10K	5%	1/10W
R249	1-216-841-11	METAL CHIP	47K	5%	1/10W	R413	1-216-864-11	SHORT CHIP	0		
R250	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R417	1-216-833-11	METAL CHIP	10K	5%	1/10W
R252	1-216-817-11	METAL CHIP	470	5%	1/10W	R418	1-216-864-11	SHORT CHIP	0		
R253	1-216-817-11	METAL CHIP	470	5%	1/10W	R419	1-216-809-11	METAL CHIP	100	5%	1/10W
R257	1-216-833-11	METAL CHIP	10K	5%	1/10W	R420	1-216-821-11	METAL CHIP	1K	5%	1/10W
R258	1-216-833-11	METAL CHIP	10K	5%	1/10W	R421	1-216-809-11	METAL CHIP	100	5%	1/10W
R282	1-216-833-11	METAL CHIP	10K	5%	1/10W	R422	1-216-809-11	METAL CHIP	100	5%	1/10W
R283	1-216-833-11	METAL CHIP	10K	5%	1/10W	R423	1-216-809-11	METAL CHIP	100	5%	1/10W
R284	1-216-833-11	METAL CHIP	10K	5%	1/10W	R424	1-216-809-11	METAL CHIP	100	5%	1/10W
R285	1-216-833-11	METAL CHIP	10K	5%	1/10W	R425	1-216-809-11	METAL CHIP	100	5%	1/10W
R286	1-216-841-11	METAL CHIP	47K	5%	1/10W	R426	1-216-837-11	METAL CHIP	22K	5%	1/10W
R287	1-216-841-11	METAL CHIP	47K	5%	1/10W	R427	1-216-821-11	METAL CHIP	1K	5%	1/10W
R299	1-216-845-11	METAL CHIP	100K	5%	1/10W	R428	1-216-813-11	METAL CHIP	220	5%	1/10W
R300	1-216-845-11	METAL CHIP	100K	5%	1/10W	R429	1-216-809-11	METAL CHIP	100	5%	1/10W
R301	1-216-841-11	METAL CHIP	47K	5%	1/10W	R430	1-216-809-11	METAL CHIP	100	5%	1/10W
R302	1-216-821-11	METAL CHIP	1K	5%	1/10W	R431	1-216-833-11	METAL CHIP	10K	5%	1/10W
R303	1-216-845-11	METAL CHIP	100K	5%	1/10W	R432	1-216-809-11	METAL CHIP	100	5%	1/10W
R304	1-218-285-11	METAL CHIP	75	5%	1/10W	R434	1-216-833-11	METAL CHIP	10K	5%	1/10W
R305	1-216-841-11	METAL CHIP	47K	5%	1/10W	R436	1-216-833-11	METAL CHIP	10K	5%	1/10W
R306	1-216-842-11	METAL CHIP	56K	5%	1/10W	R437	1-216-833-11	METAL CHIP	10K	5%	1/10W
R307	1-216-835-11	METAL CHIP	15K	5%	1/10W	R439	1-216-833-11	METAL CHIP	10K	5%	1/10W
R308	1-216-839-11	METAL CHIP	33K	5%	1/10W	R444	1-216-833-11	METAL CHIP	10K	5%	1/10W

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R445	1-216-833-11	METAL CHIP	10K 5% 1/10W	R531	1-216-822-11	METAL CHIP	1.2K 5% 1/10W
R446	1-216-833-11	METAL CHIP	10K 5% 1/10W	R554	1-216-833-11	METAL CHIP	10K 5% 1/10W
R447	1-216-833-11	METAL CHIP	10K 5% 1/10W	R555	1-216-833-11	METAL CHIP	10K 5% 1/10W
R448	1-216-833-11	METAL CHIP	10K 5% 1/10W	R556	1-216-841-11	METAL CHIP	47K 5% 1/10W
R449	1-216-833-11	METAL CHIP	10K 5% 1/10W	R557	1-216-841-11	METAL CHIP	47K 5% 1/10W
R450	1-216-833-11	METAL CHIP	10K 5% 1/10W	R558	1-216-821-11	METAL CHIP	1K 5% 1/10W
R451	1-216-833-11	METAL CHIP	10K 5% 1/10W	R559	1-216-833-11	METAL CHIP	10K 5% 1/10W
R452	1-216-833-11	METAL CHIP	10K 5% 1/10W	R560	1-216-821-11	METAL CHIP	1K 5% 1/10W
R453	1-216-833-11	METAL CHIP	10K 5% 1/10W	R561	1-216-833-11	METAL CHIP	10K 5% 1/10W
R454	1-216-833-11	METAL CHIP	10K 5% 1/10W	R566	1-216-843-11	METAL CHIP	68K 5% 1/10W
R465	1-216-809-11	METAL CHIP	100 5% 1/10W	R567	1-216-843-11	METAL CHIP	68K 5% 1/10W
R466	1-216-809-11	METAL CHIP	100 5% 1/10W	R568	1-216-843-11	METAL CHIP	68K 5% 1/10W
R467	1-216-809-11	METAL CHIP	100 5% 1/10W	R569	1-216-835-11	METAL CHIP	15K 5% 1/10W
R468	1-216-809-11	METAL CHIP	100 5% 1/10W	R571	1-216-835-11	METAL CHIP	15K 5% 1/10W
R473	1-216-833-11	METAL CHIP	10K 5% 1/10W	R572	1-216-835-11	METAL CHIP	15K 5% 1/10W
R474	1-216-833-11	METAL CHIP	10K 5% 1/10W	R573	1-216-853-11	METAL CHIP	470K 5% 1/10W
R475	1-216-833-11	METAL CHIP	10K 5% 1/10W	R575	1-216-853-11	METAL CHIP	470K 5% 1/10W
R476	1-216-833-11	METAL CHIP	10K 5% 1/10W	R576	1-216-853-11	METAL CHIP	470K 5% 1/10W
R477	1-216-809-11	METAL CHIP	100 5% 1/10W	R578	1-216-845-11	METAL CHIP	100K 5% 1/10W
R481	1-216-809-11	METAL CHIP	100 5% 1/10W	R579	1-216-833-11	METAL CHIP	10K 5% 1/10W
R482	1-216-833-11	METAL CHIP	10K 5% 1/10W	R584	1-216-837-11	METAL CHIP	22K 5% 1/10W
R486	1-216-833-11	METAL CHIP	10K 5% 1/10W	R585	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R487	1-216-833-11	METAL CHIP	10K 5% 1/10W	R586	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R492	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R587	1-216-845-11	METAL CHIP	100K 5% 1/10W
R493	1-216-821-11	METAL CHIP	1K 5% 1/10W	R588	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
			(MX)			< TRANSFORMER >	
R493	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	T101	1-433-372-11	TRANSFORMER, BIAS OSCILLATION	
			(US)			< VIBRATOR >	
R494	1-216-833-11	METAL CHIP	10K 5% 1/10W	X401	1-760-252-12	VIBRATOR, CRYSTAL (32.768kHz)	
R500	1-216-815-11	METAL CHIP	330 5% 1/10W	X402	1-795-482-11	VIBRATOR, CERAMIC (16MHz)	
R501	1-216-821-11	METAL CHIP	1K 5% 1/10W	*****			
R502	1-216-821-11	METAL CHIP	1K 5% 1/10W			MD-94 BOARD	

R503	1-216-821-11	METAL CHIP	1K 5% 1/10W			< CONNECTOR >	
R504	1-216-845-11	METAL CHIP	100K 5% 1/10W	CN001	1-506-490-21	PIN, CONNECTOR 11P	
R505	1-216-845-11	METAL CHIP	100K 5% 1/10W	CN002	1-784-767-11	CONNECTOR, FFC 6P	
R506	1-216-821-11	METAL CHIP	1K 5% 1/10W	* CN003	1-564-013-11	PIN, CONNECTOR 3P	
R507	1-216-821-11	METAL CHIP	1K 5% 1/10W	CN004	1-506-481-11	PIN, CONNECTOR 2P	
						< SWITCH >	
R508	1-216-841-11	METAL CHIP	47K 5% 1/10W	S001	1-786-514-21	SWITCH, LEVER (SLIDE)	
R509	1-216-841-11	METAL CHIP	47K 5% 1/10W			(TRAY POSITION DETECT)	
R510	1-216-854-11	METAL CHIP	560K 5% 1/10W	*****			
R511	1-216-854-11	METAL CHIP	560K 5% 1/10W			MIC BOARD	
R512	1-216-821-11	METAL CHIP	1K 5% 1/10W			*****	
						< CAPACITOR >	
R513	1-216-821-11	METAL CHIP	1K 5% 1/10W	C801	1-126-934-11	ELECT	220uF 20% 16V
R514	1-216-841-11	METAL CHIP	47K 5% 1/10W	C802	1-126-961-11	ELECT	2.2uF 20% 50V
R515	1-216-841-11	METAL CHIP	47K 5% 1/10W	C804	1-164-217-11	CERAMIC CHIP	150PF 5% 50V
R516	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	C805	1-126-964-11	ELECT	10uF 20% 50V
R517	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	C806	1-162-923-11	CERAMIC CHIP	47PF 5% 50V
				C807	1-126-961-11	ELECT	2.2uF 20% 50V
R518	1-216-809-11	METAL CHIP	100 5% 1/10W	C808	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
R519	1-216-821-11	METAL CHIP	1K 5% 1/10W	C809	1-126-961-11	ELECT	2.2uF 20% 50V
R520	1-216-821-11	METAL CHIP	1K 5% 1/10W				
R521	1-216-845-11	METAL CHIP	100K 5% 1/10W				
R522	1-216-845-11	METAL CHIP	100K 5% 1/10W				
R523	1-216-821-11	METAL CHIP	1K 5% 1/10W				
R524	1-216-845-11	METAL CHIP	100K 5% 1/10W				
R525	1-216-845-11	METAL CHIP	100K 5% 1/10W				
R526	1-216-821-11	METAL CHIP	1K 5% 1/10W				
R527	1-216-821-11	METAL CHIP	1K 5% 1/10W				
R528	1-216-821-11	METAL CHIP	1K 5% 1/10W				
R529	1-216-821-11	METAL CHIP	1K 5% 1/10W				
R530	1-216-821-11	METAL CHIP	1K 5% 1/10W				

HCD-ZX9

Ver. 1.1

MIC **PANEL**

Ref. No.	Part No.	Description	Remark
C810	1-164-315-11	CERAMIC CHIP 470PF 5%	50V
C811	1-162-923-11	CERAMIC CHIP 47PF 5%	50V
C812	1-126-960-11	ELECT 1uF 20%	50V
C813	1-115-416-11	CERAMIC CHIP 0.001uF 5%	25V
C814	1-126-961-11	ELECT 2.2uF 20%	50V
C815	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C817	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C818	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
< CONNECTOR >			
CN920	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P	
< GROUND TERMINAL >			
EPT801	1-537-738-21	TERMINAL, GROUND	
< IC >			
IC850	8-759-710-97	IC NJM4565M-D	
< JACK >			
J801	1-770-226-11	JACK (LARGE TYPE) (MIC 1)	
J802	1-770-226-11	JACK (LARGE TYPE) (MIC 2)	
< RESISTOR >			
R800	1-216-864-11	SHORT CHIP 0	
R801	1-216-845-11	METAL CHIP 100K 5%	1/10W
R802	1-216-833-11	METAL CHIP 10K 5%	1/10W
R803	1-216-833-11	METAL CHIP 10K 5%	1/10W
R804	1-216-809-11	METAL CHIP 100 5%	1/10W
R805	1-216-847-11	METAL CHIP 150K 5%	1/10W
R806	1-216-833-11	METAL CHIP 10K 5%	1/10W
R807	1-216-809-11	METAL CHIP 100 5%	1/10W
R808	1-216-841-11	METAL CHIP 47K 5%	1/10W
R809	1-216-821-11	METAL CHIP 1K 5%	1/10W
R810	1-216-845-11	METAL CHIP 100K 5%	1/10W
R811	1-216-833-11	METAL CHIP 10K 5%	1/10W
R812	1-216-821-11	METAL CHIP 1K 5%	1/10W
R813	1-216-821-11	METAL CHIP 1K 5%	1/10W
R814	1-216-833-11	METAL CHIP 10K 5%	1/10W
< VARIABLE RESISTOR >			
RV801	1-227-452-11	RES, VAR, CARBON 50K (MIC LEVEL)	

A-4751-072-A	PANEL BOARD, COMPLETE (US)		
A-4753-562-A	PANEL BOARD, COMPLETE (MX)		

4-253-178-01	HOLDER, FL		
< CAPACITOR >			
C900	1-126-163-11	ELECT 4.7uF 20%	50V
C903	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C904	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C905	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C910	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C916	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C917	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C918	1-126-518-11	ELECT 470uF 20%	4V

Ref. No.	Part No.	Description	Remark
C919	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C920	1-126-947-11	ELECT 47uF 20%	35V
C921	1-115-416-11	CERAMIC CHIP 0.001uF 5%	25V
C922	1-126-964-11	ELECT 10uF 20%	50V
C923	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C924	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C925	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C926	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C927	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C928	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C929	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C930	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C931	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C932	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C933	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C934	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C935	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C936	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C937	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C938	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C939	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C940	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C941	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C942	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C944	1-126-964-11	ELECT 10uF 20%	50V
C945	1-125-837-11	CERAMIC CHIP 1uF 10%	6.3V
C946	1-164-315-11	CERAMIC CHIP 470PF 5%	50V
C947	1-125-837-11	CERAMIC CHIP 1uF 10%	6.3V
C948	1-164-315-11	CERAMIC CHIP 470PF 5%	50V
C949	1-125-837-11	CERAMIC CHIP 1uF 10%	6.3V
C950	1-162-968-11	CERAMIC CHIP 0.0047uF 10%	50V
C951	1-125-837-11	CERAMIC CHIP 1uF 10%	6.3V
C952	1-162-968-11	CERAMIC CHIP 0.0047uF 10%	50V
C953	1-125-837-11	CERAMIC CHIP 1uF 10%	6.3V
C954	1-164-227-11	CERAMIC CHIP 0.022uF 10%	25V
C955	1-125-837-11	CERAMIC CHIP 1uF 10%	6.3V
C956	1-164-227-11	CERAMIC CHIP 0.022uF 10%	25V
C957	1-125-837-11	CERAMIC CHIP 1uF 10%	6.3V
C958	1-165-176-11	CERAMIC CHIP 0.047uF 10%	16V
C959	1-165-176-11	CERAMIC CHIP 0.047uF 10%	16V
C960	1-126-960-11	ELECT 1uF 20%	50V
C961	1-126-963-11	ELECT 4.7uF 20%	50V
C973	1-126-916-11	ELECT 1000uF 20%	6.3V
< CONNECTOR >			
CN906	1-569-914-11	SOCKET, CONNECTOR 21P	
CN908	1-564-721-11	PIN, CONNECTOR (SMALL TYPE) 5P	
CN913	1-785-341-11	PIN, CONNECTOR (LIGHT ANGLE) 15P	
< DIODE >			
D900	8-719-404-50	DIODE MA111-TX	
D901	8-719-404-50	DIODE MA111-TX	
D902	8-719-404-50	DIODE MA111-TX	
D903	8-719-404-50	DIODE MA111-TX	
D904	6-500-508-01	DIODE RR263M-400FTR	
D905	8-719-976-99	DIODE DTZ5.1B	
D906	8-719-060-27	LED SLR-325MCT31 (TUNER/BAND)	
D927	6-500-508-01	DIODE RR263M-400FTR	

HCD-ZX9

POWER

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C608	1-126-965-11	ELECT	22uF 20% 50V	D670	8-719-404-50	DIODE MA111-TX	
C609	1-128-560-11	ELECT	22uF 20% 100V	D700	8-719-988-61	DIODE 1SS355TE-17	
C610	1-128-560-11	ELECT	22uF 20% 100V	D701	8-719-988-61	DIODE 1SS355TE-17	
C616	1-136-495-11	FILM	0.068uF 5% 50V			< GROUND TERMINAL >	
C617	1-136-495-11	FILM	0.068uF 5% 50V				
C627	1-126-961-11	ELECT	2.2uF 20% 50V	EP605	1-537-738-21	TERMINAL, GROUND	
C628	1-126-933-11	ELECT	100uF 20% 16V			< IC >	
C629	1-164-156-11	CERAMIC CHIP	0.1uF 25V				
C634	1-104-665-11	ELECT	100uF 20% 25V	IC600	6-600-169-01	IC STK412-240M-E	
C635	1-104-665-11	ELECT	100uF 20% 25V	IC627	6-703-610-01	IC RT8H015C-T112-1	
C636	1-107-721-11	ELECT	4.7uF 20% 100V			< JUMPER RESISTOR >	
C637	1-107-721-11	ELECT	4.7uF 20% 100V	JR647	1-216-864-11	SHORT CHIP 0	
C648	1-104-658-11	ELECT	100uF 20% 10V			< TRANSISTOR >	
C649	1-126-964-11	ELECT	10uF 20% 50V	Q604	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C650	1-126-963-11	ELECT	4.7uF 20% 50V	Q606	8-729-821-00	TRANSISTOR 2SA1207	
C651	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V	Q610	8-729-924-99	TRANSISTOR 2SC3722K-E	
C652	1-104-658-11	ELECT	100uF 20% 10V	Q618	8-729-924-99	TRANSISTOR 2SC3722K-E	
C654	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	Q628	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C655	1-126-964-11	ELECT	10uF 20% 50V	Q629	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C656	1-127-815-11	ELECT	3300uF 20% 100V	Q630	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C657	1-137-749-11	MYLAR	0.1uF 100V	Q634	8-729-027-31	TRANSISTOR DTA124EKA-T146	
C658	1-127-812-11	ELECT	3300uF 20% 63V	Q635	8-729-027-43	TRANSISTOR DTC114EKA-T146	
C659	1-136-497-81	FILM	0.1uF 5% 50V	Q640	8-729-802-80	TRANSISTOR 2SC3661	
C662	1-126-964-11	ELECT	10uF 20% 50V	Q641	8-729-802-80	TRANSISTOR 2SC3661	
C663	1-126-968-11	ELECT	100uF 20% 50V	Q644	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C666	1-136-495-11	FILM	0.068uF 5% 50V	Q647	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C667	1-136-495-11	FILM	0.068uF 5% 50V	Q648	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C676	1-127-815-11	ELECT	3300uF 20% 100V	Q664	8-729-024-93	TRANSISTOR 2SB1565E	
C677	1-137-749-11	MYLAR	0.1uF 100V	Q668	8-729-924-99	TRANSISTOR 2SC3722K-E	
C678	1-127-812-11	ELECT	3300uF 20% 63V			< RESISTOR >	
C679	1-136-497-81	FILM	0.1uF 5% 50V	R600	1-216-821-11	METAL CHIP 1K 5% 1/10W	
C690	1-164-156-11	CERAMIC CHIP	0.1uF 25V	R601	1-216-841-11	METAL CHIP 47K 5% 1/10W	
C691	1-162-974-11	CERAMIC CHIP	0.01uF 50V	R602	1-216-815-11	METAL CHIP 330 5% 1/10W	
C692	1-162-974-11	CERAMIC CHIP	0.01uF 50V	R603	1-216-841-11	METAL CHIP 47K 5% 1/10W	
C694	1-162-974-11	CERAMIC CHIP	0.01uF 50V	R604	1-216-833-11	METAL CHIP 10K 5% 1/10W	
C695	1-162-974-11	CERAMIC CHIP	0.01uF 50V	R605	1-216-833-11	METAL CHIP 10K 5% 1/10W	
		< CONNECTOR >		R606	1-216-841-11	METAL CHIP 47K 5% 1/10W	
CN600	1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P		R607	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
CN601	1-778-981-21	CONNECTOR, BOARD TO BOARD 13P		R608	1-216-845-11	METAL CHIP 100K 5% 1/10W	
CN602	1-778-981-21	CONNECTOR, BOARD TO BOARD 13P		R609	1-216-843-11	METAL CHIP 68K 5% 1/10W	
* CN606	1-564-511-11	PLUG, CONNECTOR 8P		R610	1-216-843-11	METAL CHIP 68K 5% 1/10W	
		< DIODE >		R611	1-216-839-11	METAL CHIP 33K 5% 1/10W	
D609	8-719-404-50	DIODE MA111-TX		△R612	1-245-605-51	FUSIBLE 100 5% 1/4W F	
D611	8-719-056-93	DIODE UDZ-TE-17-18B		△R613	1-215-869-11	METAL OXIDE 1K 5% 1W F	
D612	8-719-056-93	DIODE UDZ-TE-17-18B		△R614	1-215-869-11	METAL OXIDE 1K 5% 1W F	
D620	8-719-404-50	DIODE MA111-TX		△R615	1-245-605-51	FUSIBLE 100 5% 1/4W F	
D624	8-719-404-50	DIODE MA111-TX		△R616	1-217-637-00	FUSIBLE 1 5% 1/4W F	
D627	8-719-404-50	DIODE MA111-TX		R617	1-216-845-11	METAL CHIP 100K 5% 1/10W	
D646	8-719-404-50	DIODE MA111-TX		△R618	1-234-499-21	ENCAPSULATED COMPONENT 0.22X2 5W	
D654	8-719-404-50	DIODE MA111-TX		R619	1-216-821-11	METAL CHIP 1K 5% 1/10W	
D655	8-719-404-50	DIODE MA111-TX		R620	1-216-835-11	METAL CHIP 15K 5% 1/10W	
D656	8-719-073-32	DIODE D25XB60		R621	1-216-847-11	METAL CHIP 150K 5% 1/10W	
D658	8-719-073-32	DIODE D25XB60		R622	1-245-711-31	CARBON 10 5% 1/2W F	
D660	8-719-404-50	DIODE MA111-TX		R623	1-216-842-11	METAL CHIP 56K 5% 1/10W	
D661	8-719-404-50	DIODE MA111-TX					
D664	8-719-083-87	DIODE UDZSTE-1733B					

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R624	1-216-837-11	METAL CHIP	22K 5% 1/10W	R701	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R625	1-216-823-11	METAL CHIP	1.5K 5% 1/10W			< RELAY >	
R626	1-216-845-11	METAL CHIP	100K 5% 1/10W				
R628	1-216-839-11	METAL CHIP	33K 5% 1/10W				
R629	1-216-809-11	METAL CHIP	100 5% 1/10W	RY646	1-755-500-11	RELAY	
						< TERMINAL BOARD >	
R630	1-216-845-11	METAL CHIP	100K 5% 1/10W				
R631	1-216-845-11	METAL CHIP	100K 5% 1/10W				
R632	1-216-854-11	METAL CHIP	560K 5% 1/10W	TM607	1-816-048-11	TERMINAL BOARD (SPEAKER)	
R633	1-216-841-11	METAL CHIP	47K 5% 1/10W	TM609	1-816-048-11	TERMINAL BOARD (SPEAKER)	
R634	1-216-825-11	METAL CHIP	2.2K 5% 1/10W			*****	
						POWER SW BOARD	
R635	1-216-833-11	METAL CHIP	10K 5% 1/10W			*****	
△ R636	1-215-891-11	METAL OXIDE	680 5% 2W F			< DIODE >	
△ R637	1-215-891-11	METAL OXIDE	680 5% 2W F				
R638	1-216-845-11	METAL CHIP	100K 5% 1/10W				
R639	1-216-845-11	METAL CHIP	100K 5% 1/10W	D920	8-719-053-43	LED SLR-325VCT31 (I/Ⓞ)	
						< TRANSISTOR >	
R640	1-216-833-11	METAL CHIP	10K 5% 1/10W				
R641	1-216-833-11	METAL CHIP	10K 5% 1/10W				
R642	1-216-806-11	METAL CHIP	56 5% 1/10W				
R643	1-216-806-11	METAL CHIP	56 5% 1/10W	Q900	8-729-027-43	TRANSISTOR DTC114EKA-T146	
R644	1-216-825-11	METAL CHIP	2.2K 5% 1/10W			< RESISTOR >	
△ R646	1-215-863-11	METAL OXIDE	100 5% 1W F				
R647	1-216-823-11	METAL CHIP	1.5K 5% 1/10W	R1338	1-216-819-11	METAL CHIP 680 5% 1/10W	
R649	1-216-841-11	METAL CHIP	47K 5% 1/10W	R1341	1-216-809-11	METAL CHIP 100 5% 1/10W	
R650	1-216-821-11	METAL CHIP	1K 5% 1/10W	R1342	1-216-817-11	METAL CHIP 470 5% 1/10W	
R651	1-216-841-11	METAL CHIP	47K 5% 1/10W			< SWITCH >	
R652	1-216-815-11	METAL CHIP	330 5% 1/10W				
R653	1-216-841-11	METAL CHIP	47K 5% 1/10W	S929	1-771-410-21	SWITCH, TACTILE (I/Ⓞ)	
R654	1-216-841-11	METAL CHIP	47K 5% 1/10W			*****	
R655	1-216-841-11	METAL CHIP	47K 5% 1/10W			A-6060-642-A SE-130 BOARD, COMPLETE	
R656	1-216-849-11	METAL CHIP	220K 5% 1/10W			*****	
						< CONNECTOR >	
R657	1-216-849-11	METAL CHIP	220K 5% 1/10W				
R658	1-216-849-11	METAL CHIP	220K 5% 1/10W				
R659	1-216-849-11	METAL CHIP	220K 5% 1/10W	CN101	1-750-243-11	SOCKET, CONNECTOR 6P	
R660	1-216-837-11	METAL CHIP	22K 5% 1/10W	CN102	1-573-383-11	PIN, CONNECTOR (PC BOARD) 2P	
R661	1-216-837-11	METAL CHIP	22K 5% 1/10W			< PHOTO SENSOR >	
R662	1-216-832-11	METAL CHIP	8.2K 5% 1/10W				
R663	1-216-832-11	METAL CHIP	8.2K 5% 1/10W				
R664	1-216-821-11	METAL CHIP	1K 5% 1/10W	PH101	8-749-017-45	PHOTO SENSOR RPR-220C1N	
R665	1-216-823-11	METAL CHIP	1.5K 5% 1/10W			< IC >	
△ R668	1-234-499-21	ENCAPSULATED COMPONENT	0.22X2 5W				
R669	1-216-821-11	METAL CHIP	1K 5% 1/10W	PH102	6-600-072-01	IC RPI-392	
R670	1-216-835-11	METAL CHIP	15K 5% 1/10W			*****	
R671	1-216-847-11	METAL CHIP	150K 5% 1/10W			SENSOR BOARD	
R672	1-245-711-31	CARBON	10 5% 1/2W F			*****	
R673	1-216-843-11	METAL CHIP	68K 5% 1/10W			< CONNECTOR >	
R674	1-216-837-11	METAL CHIP	22K 5% 1/10W				
R676	1-216-849-11	METAL CHIP	220K 5% 1/10W				
R677	1-216-849-11	METAL CHIP	220K 5% 1/10W				
R678	1-216-849-11	METAL CHIP	220K 5% 1/10W	CN605	1-785-328-11	PIN, CONNECTOR (LIGHT ANGLE) 2P	
R679	1-216-849-11	METAL CHIP	220K 5% 1/10W			< THERMISTOR >	
R690	1-216-841-11	METAL CHIP	47K 5% 1/10W				
R691	1-216-845-11	METAL CHIP	100K 5% 1/10W	TH630	1-807-796-11	THERMISTOR	
R692	1-216-845-11	METAL CHIP	100K 5% 1/10W			*****	
R693	1-216-825-11	METAL CHIP	2.2K 5% 1/10W			A-1052-527-A SURROUND BOARD, COMPLETE (MX)	
R694	1-216-843-11	METAL CHIP	68K 5% 1/10W			A-4751-060-A SURROUND BOARD, COMPLETE (US)	

						< CAPACITOR >	
R698	1-216-845-11	METAL CHIP	100K 5% 1/10W				
R699	1-216-845-11	METAL CHIP	100K 5% 1/10W				
R700	1-216-841-11	METAL CHIP	47K 5% 1/10W	C700	1-126-963-11	ELECT 4.7uF 20% 50V	

HCD-ZX9

SURROUND TC-A

Ref.No.	Part No.	Description	Remark
C701	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V
C702	1-104-658-11	ELECT 100uF 20%	10V
C703	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C721	1-126-965-11	ELECT 22uF 20%	50V
C730	1-136-495-11	FILM 0.068uF 5%	50V
C731	1-136-495-11	FILM 0.068uF 5%	50V
C750	1-126-963-11	ELECT 4.7uF 20%	50V
C751	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V
C752	1-104-658-11	ELECT 100uF 20%	10V
C753	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C780	1-136-495-11	FILM 0.068uF 5%	50V
C781	1-136-495-11	FILM 0.068uF 5%	50V
C791	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C795	1-128-560-11	ELECT 22uF 20%	100V
C796	1-128-560-11	ELECT 22uF 20%	100V
< DIODE >			
D720	8-719-404-50	DIODE MA111-TX	
D730	8-719-404-50	DIODE MA111-TX	
D760	8-719-404-50	DIODE MA111-TX	
D761	8-719-404-50	DIODE MA111-TX	
D780	8-719-404-50	DIODE MA111-TX	
D790	8-719-056-93	DIODE UDZ-TE-17-18B	
D791	8-719-056-93	DIODE UDZ-TE-17-18B	
< GROUND TERMINAL >			
EP790	1-537-738-21	TERMINAL, GROUND	
< IC >			
IC701	6-600-169-01	IC STK412-240M-E	
< TRANSISTOR >			
Q720	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q721	8-729-821-00	TRANSISTOR 2SA1207	
Q722	8-729-924-99	TRANSISTOR 2SC3722K-E	
Q730	8-729-924-99	TRANSISTOR 2SC3722K-E	
Q762	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q765	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q780	8-729-924-99	TRANSISTOR 2SC3722K-E	
< RESISTOR >			
R700	1-216-821-11	METAL CHIP 1K 5%	1/10W
R701	1-216-841-11	METAL CHIP 47K 5%	1/10W
R702	1-216-815-11	METAL CHIP 330 5%	1/10W
R710	1-216-841-11	METAL CHIP 47K 5%	1/10W
R711	1-216-841-11	METAL CHIP 47K 5%	1/10W
R720	1-216-833-11	METAL CHIP 10K 5%	1/10W
R721	1-216-833-11	METAL CHIP 10K 5%	1/10W
R722	1-216-841-11	METAL CHIP 47K 5%	1/10W
R723	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R724	1-216-845-11	METAL CHIP 100K 5%	1/10W
R725	1-216-843-11	METAL CHIP 68K 5%	1/10W
R726	1-216-843-11	METAL CHIP 68K 5%	1/10W
R727	1-216-839-11	METAL CHIP 33K 5%	1/10W
R728	1-216-841-11	METAL CHIP 47K 5%	1/10W
R729	1-216-845-11	METAL CHIP 100K 5%	1/10W
△R730	1-234-499-21	ENCAPSULATED COMPONENT 0.22X2 5W	

Ref.No.	Part No.	Description	Remark
R731	1-216-821-11	METAL CHIP 1K 5%	1/10W
R732	1-216-835-11	METAL CHIP 15K 5%	1/10W
R733	1-216-847-11	METAL CHIP 150K 5%	1/10W
R734	1-216-842-11	METAL CHIP 56K 5%	1/10W
R735	1-245-711-31	CARBON 10 5%	1/2W F
R736	1-216-843-11	METAL CHIP 68K 5%	1/10W
R737	1-216-845-11	METAL CHIP 100K 5%	1/10W
R750	1-216-821-11	METAL CHIP 1K 5%	1/10W
R751	1-216-841-11	METAL CHIP 47K 5%	1/10W
R752	1-216-815-11	METAL CHIP 330 5%	1/10W
△R764	1-215-863-11	METAL OXIDE 100 5%	1W F
R766	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
△R780	1-234-499-21	ENCAPSULATED COMPONENT 0.22X2 5W	
R781	1-216-821-11	METAL CHIP 1K 5%	1/10W
R782	1-216-835-11	METAL CHIP 15K 5%	1/10W
R783	1-216-847-11	METAL CHIP 150K 5%	1/10W
R784	1-216-843-11	METAL CHIP 68K 5%	1/10W
R785	1-245-711-31	CARBON 10 5%	1/2W F
R788	1-216-823-11	METAL CHIP 1.5K 5%	1/10W
R792	1-216-845-11	METAL CHIP 100K 5%	1/10W
△R793	1-217-637-00	FUSIBLE 1 5%	1/4W F
△R794	1-245-605-51	FUSIBLE 100 5%	1/4W F
△R795	1-245-605-51	FUSIBLE 100 5%	1/4W F
△R796	1-215-869-11	METAL OXIDE 1K 5%	1W F
△R797	1-215-869-11	METAL OXIDE 1K 5%	1W F
R798	1-216-845-11	METAL CHIP 100K 5%	1/10W
R799	1-216-845-11	METAL CHIP 100K 5%	1/10W
< RELAY >			
RY760	1-755-500-11	RELAY	

TC-A BOARD			

< CONNECTOR >			
CN914	1-785-329-11	PIN, CONNECTOR (LIGHT ANGLE) 3P	
CN915	1-785-333-11	PIN, CONNECTOR (LIGHT ANGLE) 7P	
< DIODE >			
D918	8-719-060-27	LED SLR-325MCT31 (<)	
D919	8-719-060-27	LED SLR-325MCT31 (>)	
< JUMPER RESISTOR >			
JR903	1-216-864-11	SHORT CHIP 0	
< TRANSISTOR >			
Q907	8-729-027-43	TRANSISTOR DTC114EKA-T146	
< RESISTOR >			
R833	1-216-819-11	METAL CHIP 680 5%	1/10W
R835	1-216-819-11	METAL CHIP 680 5%	1/10W
R837	1-216-833-11	METAL CHIP 10K 5%	1/10W
R840	1-218-867-11	METAL CHIP 6.8K 0.5%	1/10W
R842	1-216-809-11	METAL CHIP 100 5%	1/10W
R843	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R844	1-216-827-11	METAL CHIP 3.3K 5%	1/10W

Ref. No.	Part No.	Description	Remark
R845	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R846	1-216-823-11	METAL CHIP 1.5K 5%	1/10W
< SWITCH >			
S931	1-771-410-21	SWITCH, TACTILE (I◀◀◀◀)	
S932	1-771-410-21	SWITCH, TACTILE (▶▶▶▶I)	
S933	1-771-410-21	SWITCH, TACTILE (FUNCTION)	
S934	1-771-410-21	SWITCH, TACTILE (■)	
S935	1-771-410-21	SWITCH, TACTILE (<)	
S936	1-771-410-21	SWITCH, TACTILE (▷)	

	A-1052-746-A	TC-B BOARD, COMPLETE (MX)	
	A-4751-063-A	TC-B BOARD, COMPLETE (US)	

< CONNECTOR >			
CN905	1-785-331-11	PIN, CONNECTOR (LIGHT ANGLE) 5P	
CN916	1-785-335-11	PIN, CONNECTOR (LIGHT ANGLE) 9P	
< DIODE >			
D921	8-719-060-27	LED SLR-325MCT31 (GAME)	
D922	8-719-053-43	LED SLR-325VCT31 (REC PAUSE/START)	
D923	8-719-060-27	LED SLR-325MCT31 (<)	
D924	8-719-060-27	LED SLR-325MCT31 (▷)	
< JUMPER RESISTOR >			
JR907	1-216-864-11	SHORT CHIP 0	
JR908	1-216-864-11	SHORT CHIP 0	
< TRANSISTOR >			
Q909	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q910	8-729-027-43	TRANSISTOR DTC114EKA-T146	
< RESISTOR >			
R847	1-216-819-11	METAL CHIP 680 5%	1/10W
R848	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R849	1-216-819-11	METAL CHIP 680 5%	1/10W
R850	1-216-809-11	METAL CHIP 100 5%	1/10W
R852	1-216-823-11	METAL CHIP 1.5K 5%	1/10W
R855	1-216-823-11	METAL CHIP 1.5K 5%	1/10W
R857	1-216-819-11	METAL CHIP 680 5%	1/10W
R858	1-216-821-11	METAL CHIP 1K 5%	1/10W
R859	1-216-819-11	METAL CHIP 680 5%	1/10W
R860	1-216-809-11	METAL CHIP 100 5%	1/10W
R861	1-216-819-11	METAL CHIP 680 5%	1/10W
R864	1-216-817-11	METAL CHIP 470 5%	1/10W
R868	1-216-835-11	METAL CHIP 15K 5%	1/10W
R869	1-216-833-11	METAL CHIP 10K 5%	1/10W
R870	1-218-867-11	METAL CHIP 6.8K 0.5%	1/10W
< SWITCH >			
S940	1-771-410-21	SWITCH, TACTILE (REC PAUSE/START)	
S941	1-771-410-21	SWITCH, TACTILE (GAME)	
S942	1-771-410-21	SWITCH, TACTILE (GAME MIXING)	
S943	1-771-410-21	SWITCH, TACTILE (CD SYNC)	
S944	1-771-410-21	SWITCH, TACTILE (▶▶▶▶I)	
S945	1-771-410-21	SWITCH, TACTILE (I◀◀◀◀)	
S947	1-771-410-21	SWITCH, TACTILE (■)	
S948	1-771-410-21	SWITCH, TACTILE (<)	

Ref. No.	Part No.	Description	Remark
S949	1-771-410-21	SWITCH, TACTILE (▷)	

	1-861-385-11	TRANS BOARD	*****
	1-533-217-41	HOLDER, FUSE	
< CAPACITOR >			
C1192	1-128-576-11	ELECT 100uF 20%	63V
< CONNECTOR >			
* CN1112	1-564-521-11	PLUG, CONNECTOR 6P	
* CN1113	1-564-520-11	PLUG, CONNECTOR 5P	
< DIODE >			
D1192	6-500-522-21	DIODE 10EDB40-TB3	
< RESISTOR >			
R1133	1-219-237-11	SOLID 3.3M 20%	1/2W (US)
△R1192	1-219-124-11	FUSIBLE 0.68 5%	1/4W F

	A-1052-687-A	VOL BOARD, COMPLETE (MX)	
	A-4751-069-A	VOL BOARD, COMPLETE (US)	

< CAPACITOR >			
C967	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C968	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C969	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C971	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
< CONNECTOR >			
CN928	1-785-328-11	PIN, CONNECTOR (LIGHT ANGLE) 2P	
< DIODE >			
D907	6-500-424-01	LED SLI-325DCT31W (ILLUMINATION)	
D908	6-500-424-01	LED SLI-325DCT31W (ILLUMINATION)	
D909	6-500-424-01	LED SLI-325DCT31W (ILLUMINATION)	
D910	6-500-424-01	LED SLI-325DCT31W (ILLUMINATION)	
D911	6-500-424-01	LED SLI-325DCT31W (ILLUMINATION)	
D912	6-500-424-01	LED SLI-325DCT31W (ILLUMINATION)	
D913	6-500-424-01	LED SLI-325DCT31W (ILLUMINATION)	
D914	6-500-424-01	LED SLI-325DCT31W (ILLUMINATION)	
D915	6-500-424-01	LED SLI-325DCT31W (ILLUMINATION)	
D916	6-500-424-01	LED SLI-325DCT31W (ILLUMINATION)	
D917	6-500-424-01	LED SLI-325DCT31W (ILLUMINATION)	
< JUMPER RESISTOR >			
JR909	1-216-864-11	SHORT CHIP 0	
JR910	1-216-864-11	SHORT CHIP 0	
JR911	1-216-864-11	SHORT CHIP 0	
JR912	1-216-864-11	SHORT CHIP 0	
JR913	1-216-864-11	SHORT CHIP 0	
< TRANSISTOR >			
Q911	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q912	8-729-027-43	TRANSISTOR DTC114EKA-T146	

HCD-ZX9

VOL VOLTAGE SELECTOR

Ref. No.	Part No.	Description	Remark		
Q913	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q914	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q915	8-729-027-43	TRANSISTOR DTC114EKA-T146			
		< RESISTOR >			
R960	1-218-867-11	METAL CHIP 6.8K 0.5%	1/10W		
R961	1-216-829-11	METAL CHIP 4.7K 5%	1/10W		
R962	1-216-827-11	METAL CHIP 3.3K 5%	1/10W		
R963	1-216-825-11	METAL CHIP 2.2K 5%	1/10W		
R964	1-216-823-11	METAL CHIP 1.5K 5%	1/10W		
R965	1-216-823-11	METAL CHIP 1.5K 5%	1/10W		
R966	1-216-821-11	METAL CHIP 1K 5%	1/10W		
R967	1-216-819-11	METAL CHIP 680 5%	1/10W		
R968	1-216-817-11	METAL CHIP 470 5%	1/10W		
R969	1-216-817-11	METAL CHIP 470 5%	1/10W		
R970	1-216-819-11	METAL CHIP 680 5%	1/10W		
R971	1-216-821-11	METAL CHIP 1K 5%	1/10W		
R972	1-216-823-11	METAL CHIP 1.5K 5%	1/10W		
R973	1-216-823-11	METAL CHIP 1.5K 5%	1/10W		
R974	1-216-825-11	METAL CHIP 2.2K 5%	1/10W		
R975	1-216-827-11	METAL CHIP 3.3K 5%	1/10W		
R976	1-216-829-11	METAL CHIP 4.7K 5%	1/10W		
R1300	1-216-821-11	METAL CHIP 1K 5%	1/10W		
R1301	1-216-809-11	METAL CHIP 100 5%	1/10W		
R1302	1-216-821-11	METAL CHIP 1K 5%	1/10W		
R1303	1-216-821-11	METAL CHIP 1K 5%	1/10W		
R1306	1-216-821-11	METAL CHIP 1K 5%	1/10W		
R1308	1-216-809-11	METAL CHIP 100 5%	1/10W		
R1309	1-216-821-11	METAL CHIP 1K 5%	1/10W		
R1310	1-216-821-11	METAL CHIP 1K 5%	1/10W		
R1313	1-216-821-11	METAL CHIP 1K 5%	1/10W		
R1315	1-216-809-11	METAL CHIP 100 5%	1/10W		
R1316	1-216-821-11	METAL CHIP 1K 5%	1/10W		
R1317	1-216-821-11	METAL CHIP 1K 5%	1/10W		
R1320	1-216-821-11	METAL CHIP 1K 5%	1/10W		
R1322	1-216-809-11	METAL CHIP 100 5%	1/10W		
R1323	1-216-821-11	METAL CHIP 1K 5%	1/10W		
R1324	1-216-821-11	METAL CHIP 1K 5%	1/10W		
R1327	1-216-821-11	METAL CHIP 1K 5%	1/10W		
R1329	1-216-809-11	METAL CHIP 100 5%	1/10W		
R1330	1-216-821-11	METAL CHIP 1K 5%	1/10W		
R1331	1-216-821-11	METAL CHIP 1K 5%	1/10W		
R1335	1-216-821-11	METAL CHIP 1K 5%	1/10W		
R1336	1-216-821-11	METAL CHIP 1K 5%	1/10W		
R1337	1-216-821-11	METAL CHIP 1K 5%	1/10W		
		< SWITCH >			
S904	1-771-410-21	SWITCH, TACTILE (SALSA)			
S905	1-771-410-21	SWITCH, TACTILE (REGGAE)			
S906	1-771-410-21	SWITCH, TACTILE (POP)			
S907	1-771-410-21	SWITCH, TACTILE (SAMBA)			
S908	1-771-410-21	SWITCH, TACTILE (TANGO)			
S909	1-771-410-21	SWITCH, TACTILE (SURROUND)			
S910	1-771-410-21	SWITCH, TACTILE (P FILE)			
S911	1-771-410-21	SWITCH, TACTILE (X GROOVE)			
S913	1-771-410-21	SWITCH, TACTILE (ROCK)			
S914	1-771-410-21	SWITCH, TACTILE (JAZZ)			
S915	1-771-410-21	SWITCH, TACTILE (DANCE)			

Ref. No.	Part No.	Description	Remark		
S916	1-771-410-21	SWITCH, TACTILE (MOVIE)			
S917	1-771-410-21	SWITCH, TACTILE (GAME)			
S918	1-771-410-21	SWITCH, TACTILE (AMP MENU)			
S919	1-771-410-21	SWITCH, TACTILE (EFFECT ON/OFF)			
S975	1-418-725-51	ENCODER, ROTARY (12 TYPE) (VOLUME)			

	1-861-384-11	VOLTAGE SELECTOR BOARD			

		< CAPACITOR >			
C1001	1-164-156-11	CERAMIC CHIP 0.1uF	25V		
C1002	1-164-156-11	CERAMIC CHIP 0.1uF	25V		
C1004	1-164-156-11	CERAMIC CHIP 0.1uF	25V		
C1006	1-126-916-11	ELECT 1000uF 20%	6.3V		
		< CONNECTOR >			
CN1000	1-785-329-11	PIN, CONNECTOR (LIGHT ANGLE) 3P			
CN1002	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P			
CN1004	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P			
		< DIODE >			
D1000	8-719-404-50	DIODE MA111-TX			
		< JUMPER RESISTOR >			
JR1002	1-216-864-11	SHORT CHIP 0			
		< COIL >			
L1001	1-410-666-31	INDUCTOR 18uH			
		< TRANSISTOR >			
Q1000	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
		< RESISTOR >			
R1000	1-216-829-11	METAL CHIP 4.7K 5%	1/10W		
R1001	1-216-845-11	METAL CHIP 100K 5%	1/10W		
		< RELAY >			
△RY1000	1-755-299-11	RELAY			

Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS *****	
5	1-769-939-11	WIRE (FLAT TYPE) (11 CORE)	
△ 6	1-468-737-51	SWITCHING, POWER (MX)	
△ 6	1-468-737-71	SWITCHING, POWER (US)	
57	1-773-163-11	WIRE (FLAT TYPE) (21 CORE)	
58	1-796-487-71	DECK, MECHANICAL	
62	1-769-992-11	WIRE (FLAT TYPE) (13 CORE)	
△ 157	1-783-820-11	CORD, POWER (US)	
△ 157	1-829-627-11	POWER-SUPPLY CORD (MX)	
207	1-823-921-11	FMS-18	
△ 265	8-820-244-01	OPTICAL PICK-UP (KSM-215DCP/C2NP)	
272	1-832-404-21	CABLE, FLEXIBLE FLAT (16 CORE)	
273	1-452-925-21	MAGNET ASSY	
△ F1141	1-533-949-33	FUSE, CYLINDRICAL (TIME LAG) (8A/250V) (US)	
△ F1141	1-576-655-12	FUSE, GLASS TUBE (DIA. 5) (8A/250V) (MX)	
△ F1151	1-533-949-33	FUSE, CYLINDRICAL (TIME LAG) (8A/250V) (US)	
△ F1151	1-576-655-12	FUSE, GLASS TUBE (DIA. 5) (8A/250V) (MX)	
△ F1161	1-533-949-33	FUSE, CYLINDRICAL (TIME LAG) (8A/250V) (US)	
△ F1161	1-576-655-12	FUSE, GLASS TUBE (DIA. 5) (8A/250V) (MX)	
△ F1171	1-533-949-33	FUSE, CYLINDRICAL (TIME LAG) (8A/250V) (US)	
△ F1171	1-576-655-12	FUSE, GLASS TUBE (DIA. 5) (8A/250V) (MX)	
△ F1181	1-532-504-33	FUSE (TIME LAG) (4A/250V) (US)	
△ F1181	1-533-471-12	FUSE, GLASS TUBE (DIA. 5) (4A/250V) (MX)	
FAN901	1-763-372-11	FAN, DC	
FC901	1-500-868-11	CORE, FERRITE	
M901	X-3952-411-1	MOTOR ASSY, LOADING (LOADING)	
RE901	1-418-746-11	ENCODER, ROTARY	
S101	1-771-853-11	SWITCH, DETECTION (LIMIT)	
△ T1100	1-443-195-11	TRANSFORMER, POWER (MX)	
△ T1100	1-445-175-11	TRANSFORMER, POWER (US)	
TU901	1-693-603-11	TUNER (FM/AM) (MX)	
TU901	1-693-623-31	TUNER (FM/AM) (US)	

