

CX-LDB30/LDB50

SERVICE MANUAL

Ver. 1.1 2005.04



AEP Model

CX-LDB30/LDB50

UK Model

CX-LDB30

E Model

CX-LDB30/LDB50

CX-LDB30/LDB50 are the Amplifier, CD player, Tape Deck and Tuner section in XR-DB30/DB50.

CD Section	Model Name Using Similar Mechanism	NEW
	CD Mechanism Type	CDM80BV-F4BD81
	Base Unit Name	BU-F4BD81B
	Optical Pick-up Name	KSM-215CFP/C2NP
TAPE Section	Model Name Using Similar Mechanism	CX-LEM330
	Tape Transport Mechanism Type	CMAL5Z220A

SPECIFICATIONS

CX-LDB50

European model:

DIN power output (rated): 60 + 60 W
(6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference):
80 + 80 W
(6 ohms at 1 kHz, 10% THD)

Music power output (reference):
200 + 200 W
(6 ohms at 1 kHz, 10% THD)

Other models:

The following measured at AC 220 – 240 V, 50/60 Hz
DIN power output (rated): 60 + 60 W
(6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference):
80 + 80 W
(6 ohms at 1 kHz, 10% THD)

CX-LDB30

European model:

DIN power output (rated): 45 + 45 W
(6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference):
60 + 60 W
(6 ohms at 1 kHz, 10% THD)

Music power output (reference):
140 + 140 W
(6 ohms at 1 kHz, 10% THD)

Other models:

The following measured at AC 220 – 240 V, 50/60 Hz
DIN power output (rated): 45 + 45 W
(6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference):
60 + 60 W
(6 ohms at 1 kHz, 10% THD)

Inputs

AUDIO IN (RCA pin jacks):

Sensitivity 700 mV,
impedance 47 kilohms

Outputs

PHONES (stereo mini jack):

accepts headphones with
an impedance of 32 ohms
or more

SPEAKER:

accepts impedance of
6 ohms

CD player section

System

Compact disc and digital
audio system

Laser Diode Properties

Emission duration:
continuous
Laser Output*: Less than
44.6 μ W

* This output is the value measurement at a distance of
200 mm from the objective lens surface on the
Optical Pick-up Block with 7 mm aperture

— Continued on next page —

MICRO HI-FI COMPONENT SYSTEM



CX-LDB30/LDB50

Frequency response	20 Hz – 20 kHz
Signal-to-noise ratio	More than 90 dB
Dynamic range	More than 90 dB
Tape deck section	
Recording system	4-track 2-channel stereo
Frequency response	100 – 10,000 Hz, using Sony TYPE I cassettes

Tuner section	
FM stereo, FM/AM superheterodyne tuner	
FM tuner section	
Tuning range	87.5 – 108.0 MHz (50-kHz step)
Antenna	FM lead antenna
Antenna terminals	75 ohms unbalanced
Intermediate frequency	10.7 MHz
AM tuner section	
Tuning range	
European model:	531 – 1,602 kHz (with the tuning interval set at 9 kHz)
Other models:	530 – 1,710 kHz (with the tuning interval set at 10 kHz)
	531 – 1,602 kHz (with the tuning interval set at 9 kHz)
Antenna	AM loop antenna, external antenna terminal
Intermediate frequency	450 kHz

General	
Power requirements	
European model:	AC 230 V, 50/60 Hz
Other models:	AC 120, 220 or 230 – 240 V, 50/60 Hz Adjustable with voltage selector
Power consumption	
XR-DB50	
European model:	85 W 0.3 W (in Power Saving mode)
Other models:	85 W
XR-DB30	
European model:	70 W 0.3 W (in Power Saving mode)
Other models:	70 W
Dimensions (w/h/d) excl. speakers:	Approx. 190 x 277 x 269 mm
Mass excl. speakers	
CX-LDB50:	5.4 kg
CX-LDB30:	5.1 kg

Design and specifications are subject to change without notice.



- Standby power consumption: 0.3 W
- Halogenated flame retardants are not used in the certain printed wiring boards.
- Lead-free solder is used for soldering certain parts.
- Halogenated flame retardants are not used in cabinets.

SAFETY-RELATED COMPONENT WARNING!!

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

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SECTION 1

SERVICING NOTES

Notes on chip component replacement

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

Flexible Circuit Board Repairing

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

UNLEADED SOLDER

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



LEAD FREE MARK

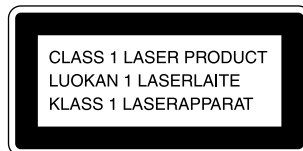
Unleaded solder has the following characteristics.

- 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.

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



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

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

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

NOTES ON LASER DIODE EMISSION CHECK

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

LASER DIODE AND FOCUS SEARCH OPERATION CHECK

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

SECTION 2

GENERAL

This section is extracted from instruction manual.

List of button locations and reference pages

How to use this page

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

Illustration number	
DISPLAY	22 (15, 21)
Name of button/part	Reference page

Main unit

ALPHABETICAL ORDER

A – O

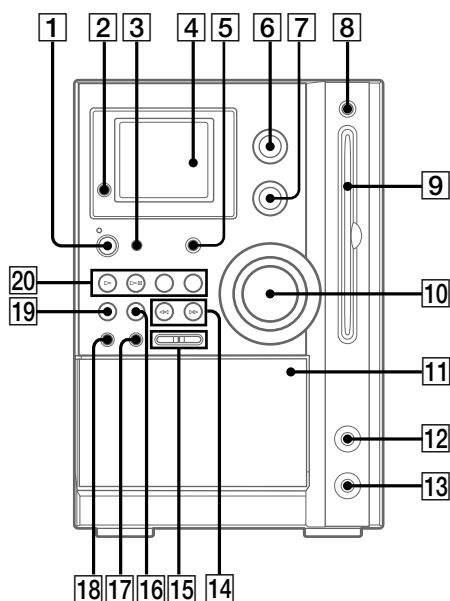
AUDIO IN **20** (17, 23, 27)
 AUDIO IN jack **12** (19, 23)
 BASS control **7** (17)
 CD SYNC **18** (16)
 Disc slot **9**
 DISPLAY **3** (15, 21, 22)
 Display window **4**
 FOLDER +/- **15** (10, 11, 16)
 i-Bass **5** (17)

P – Z

PHONES jack **13**
 PLAY MODE **19** (10, 11, 16, 26)
 Remote sensor **2**
 TREBLE control **6** (17)
 TUNER/BAND **20** (12, 14, 17)
 TUNING +/- **14** (12, 14)
 TUNING MODE **19** (12, 14)
 VOLUME control **10** (18, 25)

BUTTON DESCRIPTIONS

I/⏻ (power) **1** (7, 14, 27)
 ▲ CD (eject) **8** (8, 9)
 ▲ PUSH **11** (16)
 ◀◀/▶▶ (go back/go forward) **14** (10)
 ◀◀/▶▶ (rewind/fast forward) **14** (8, 10, 14, 16)
 ■ (stop) **16** (10, 13, 16)
 ● REC PAUSE/START **17** (16)
 TAPE/▶▶ (play) **20** (16)
 CD/▶▶|| (play pause) **20** (10)



Remote control

ALPHABETICAL ORDER

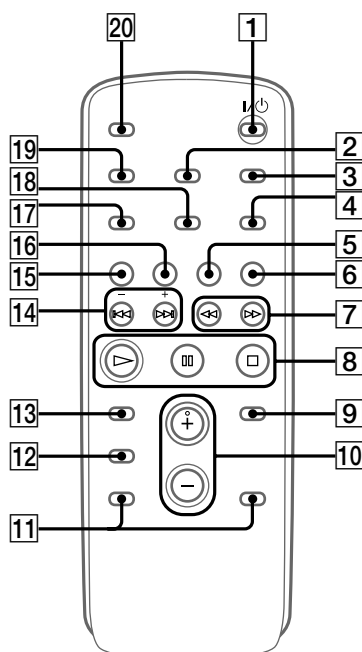
A – O
 CD **16** (9, 11, 13, 16, 17)
 CLEAR **13** (12)
 CLOCK/TIMER SELECT **2**
 (19, 20, 25)
 CLOCK/TIMER SET **3** (8, 18,
 19)
 DISPLAY **19** (15, 21, 22)
 ENTER **9** (8, 11, 13, 18, 19)
 EQ **12** (17)
 FM MODE **4** (15, 27)
 FOLDER +/- **11** (10, 11, 16)
 FUNCTION **6** (8, 9, 11, 12, 14,
 16, 17, 23, 27)

P – Z

PLAY MODE **18** (10, 11, 16, 26,
 28)
 REPEAT **4** (11)
 SLEEP **20** (18)
 TAPE **15** (16, 17)
 TUNER/BAND **5** (12, 14, 17)
 TUNER MEMORY **17** (13)
 TUNING MODE **18** (12, 14)
 VOLUME +/- **10** (18, 25)

BUTTON DESCRIPTIONS

I/⏻ (power) **1** (7, 14, 19)
 ◀◀/▶▶ (rewind/fast forward)
7 (10, 14, 16)
 ⏸ (pause) **8** (10, 16)
 ■ (stop) **8** (10, 16)
 ▶ (play) **8** (10, 16)
 +/- (tuning) **14** (12, 17)
 ◀◀/▶▶ (go back/go forward)
14 (8, 10, 18)



Setting the clock

Use buttons on the remote for the operation.

- 1** Press I/⏻ to turn on the system.
- 2** Press CLOCK/TIMER SET.
- 3** Press ◀◀ or ▶▶ repeatedly to set the hour.
- 4** Press ENTER.
- 5** Press ◀◀ or ▶▶ repeatedly to set the minute.
- 6** Press ENTER.
The clock starts working.

To adjust the clock

- 1** Press CLOCK/TIMER SET.
- 2** Press ◀◀ or ▶▶ until "CLOCK SET?" appears, then press ENTER.
- 3** Do the same procedures as step 3 to 6 above.

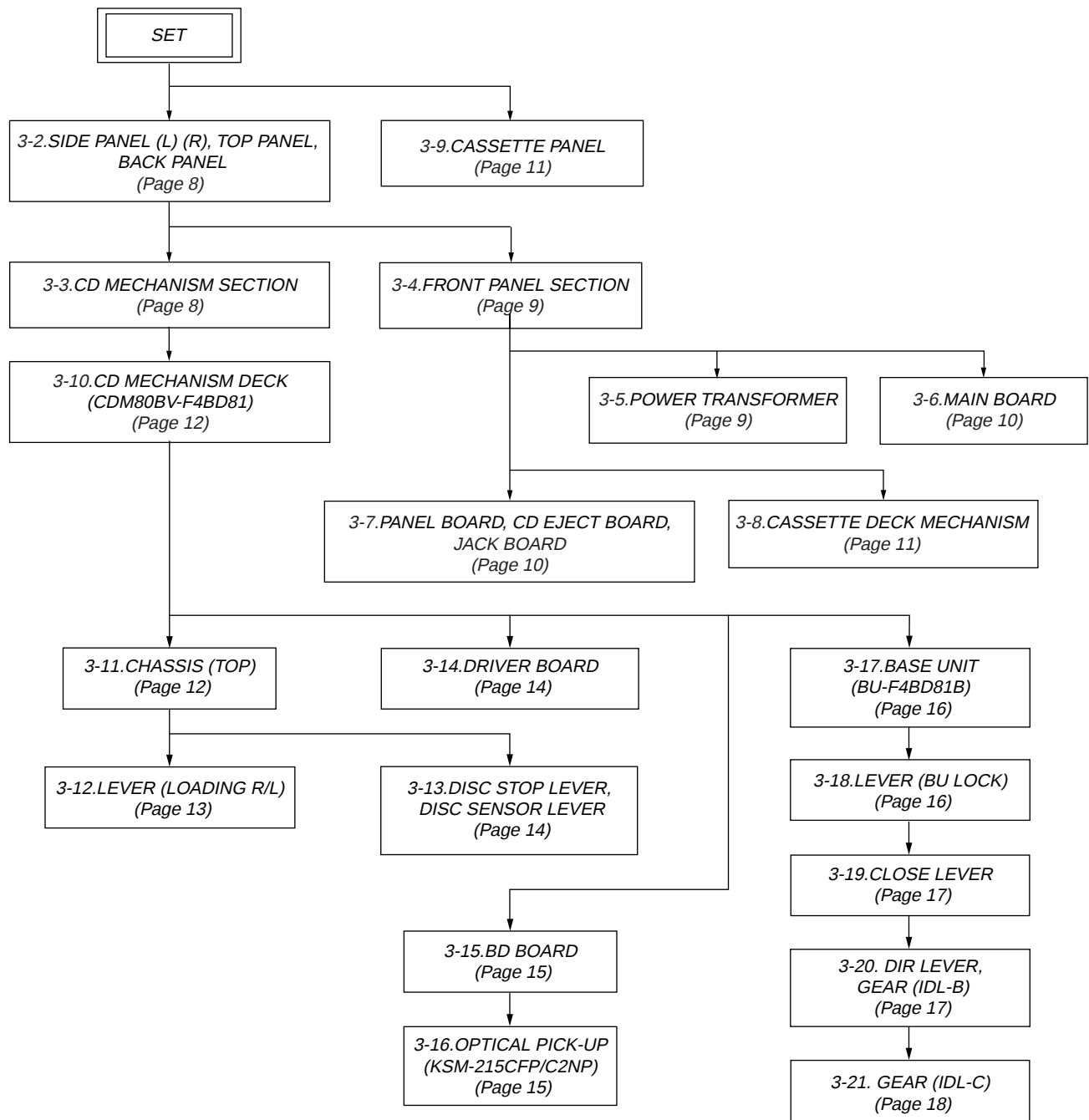
Notes

The clock settings are canceled when you disconnect the power cord or if a power failure occurs.
 You cannot set the clock in Power Saving Mode (page 21).

SECTION 3 DISASSEMBLY

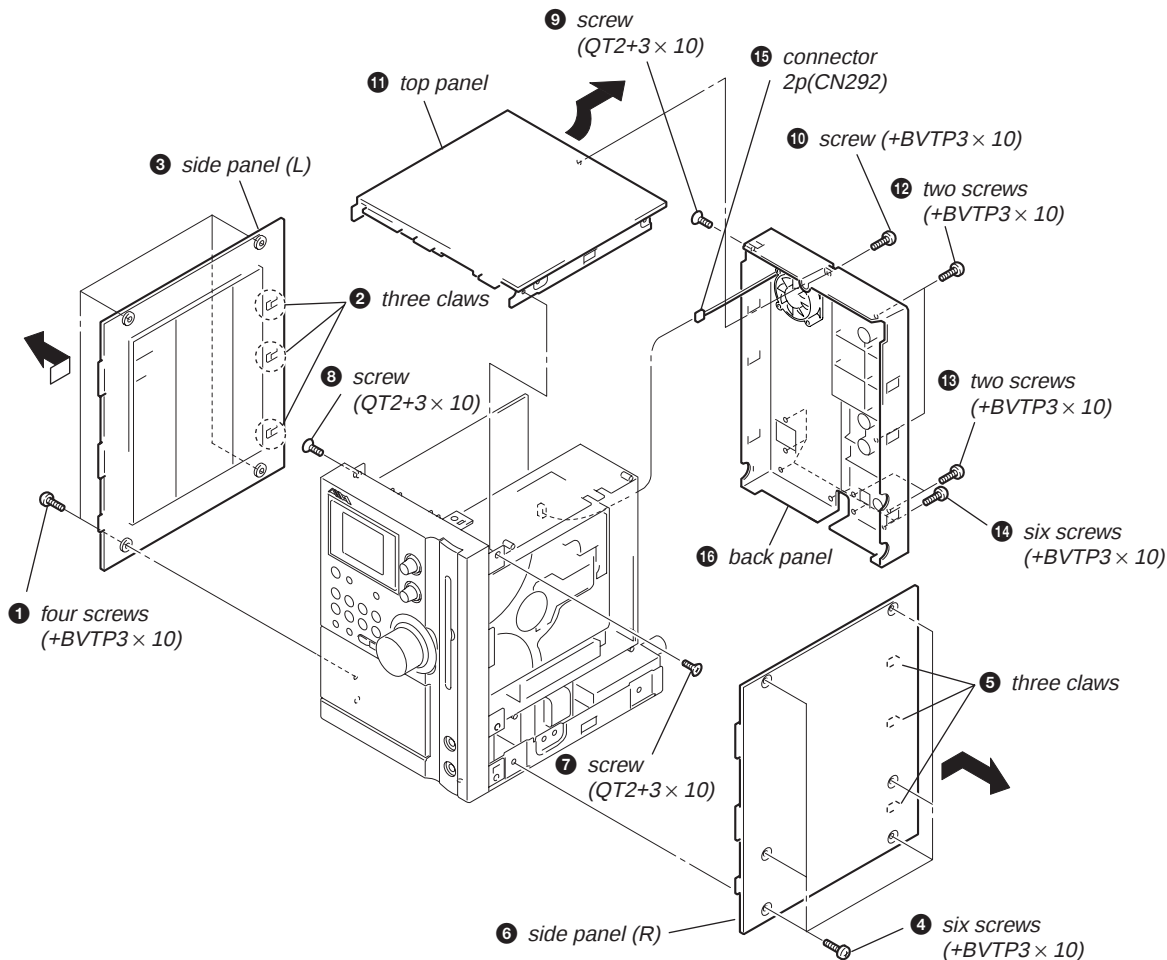
3-1. DISASSEMBLY FLOW

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

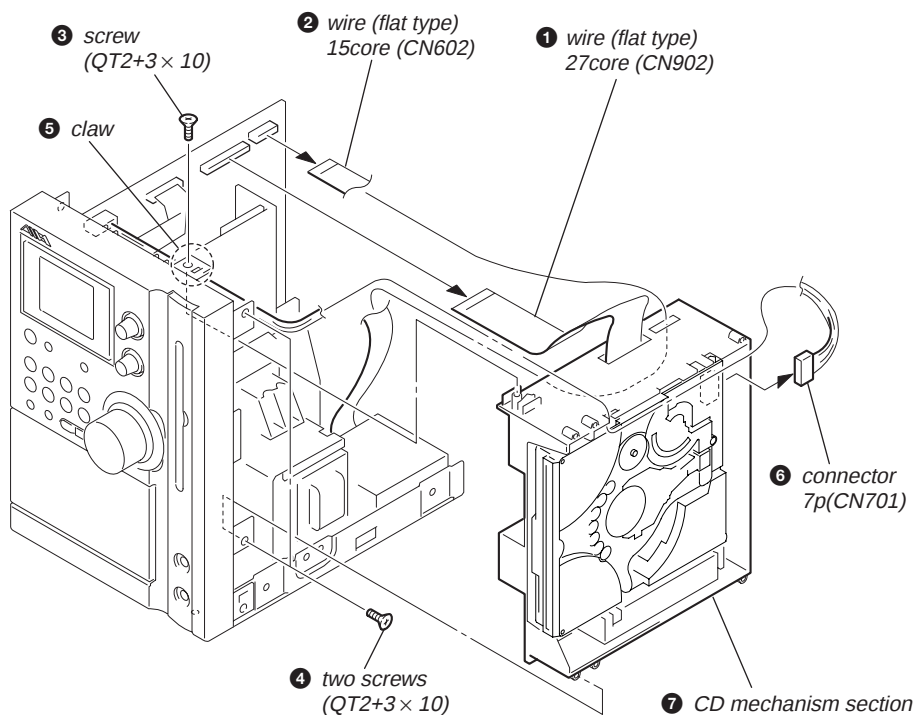


Note: Follow the disassembly procedure in the numerical order given.

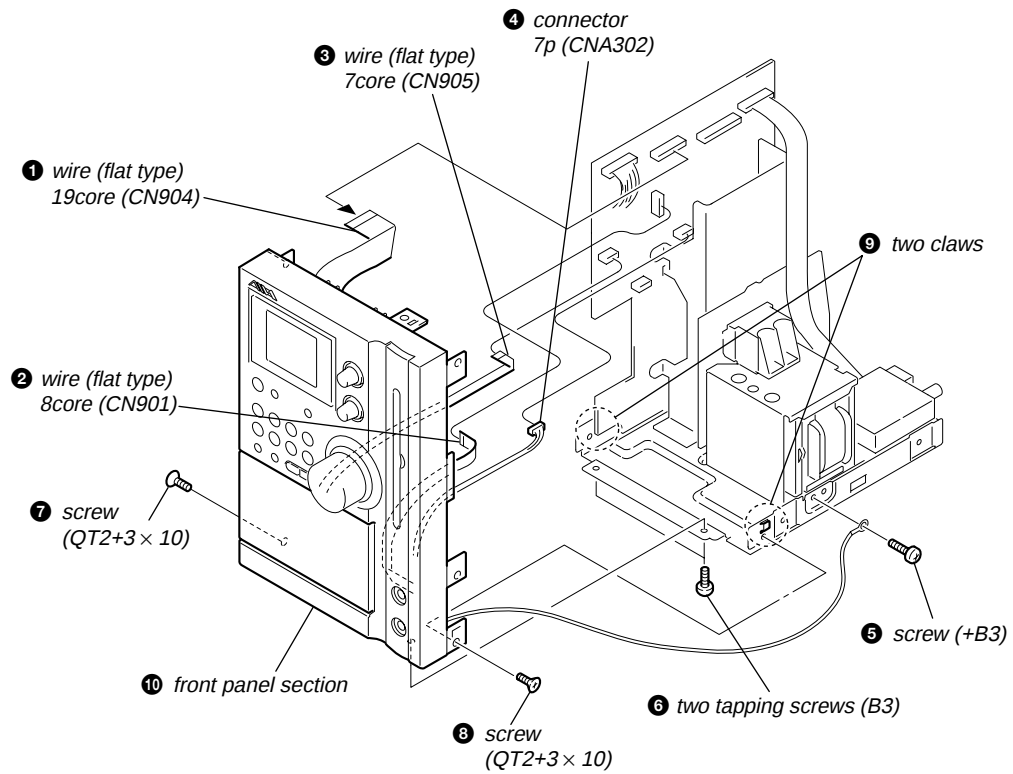
3-2. SIDE PANEL (L)(R), TOP PANEL, BACK PANEL



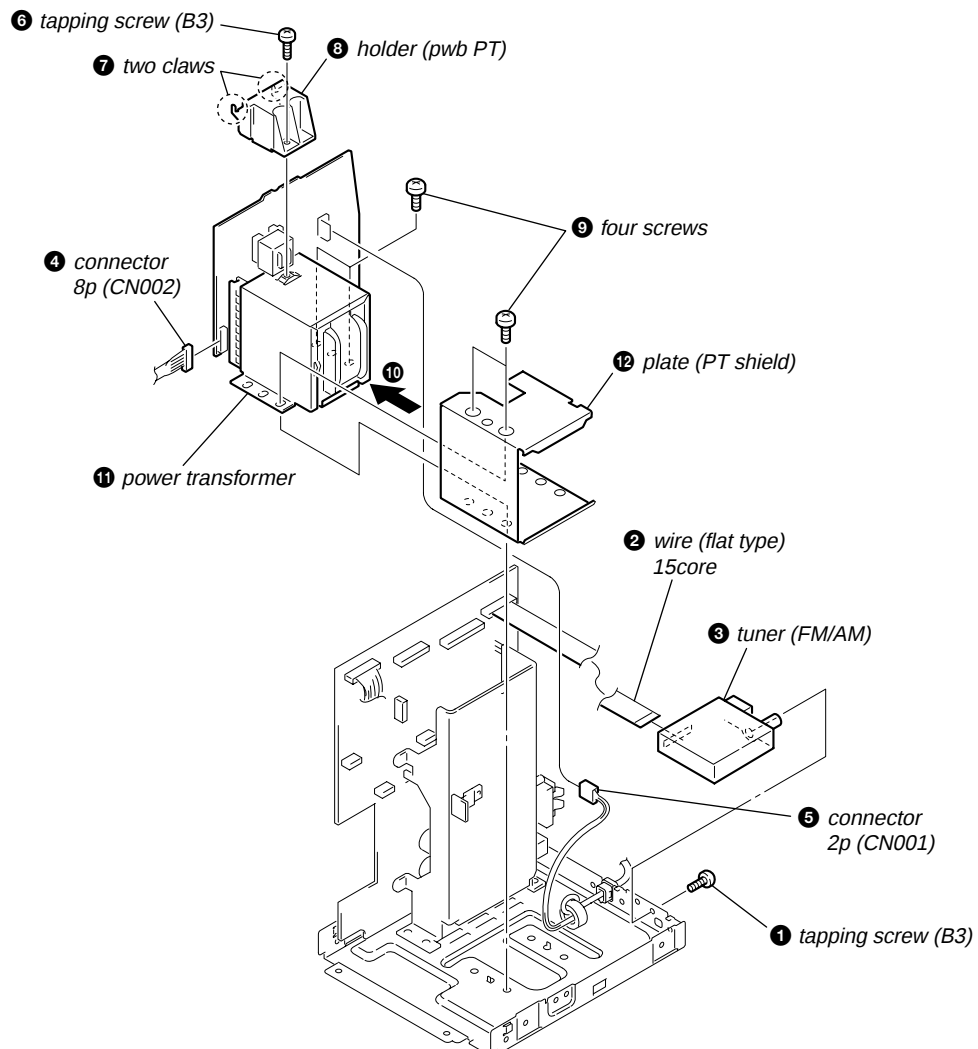
3-3. CD MECHANISM SECTION



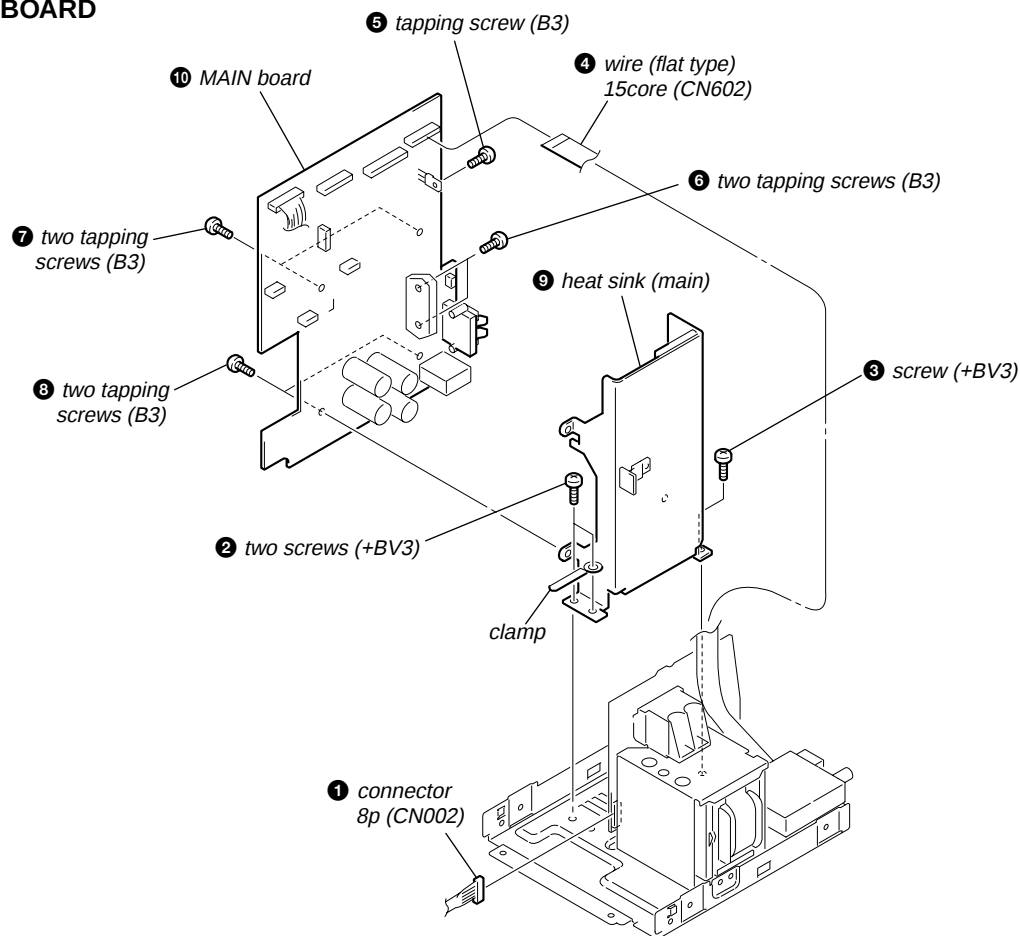
3-4. FRONT PANEL SECTION



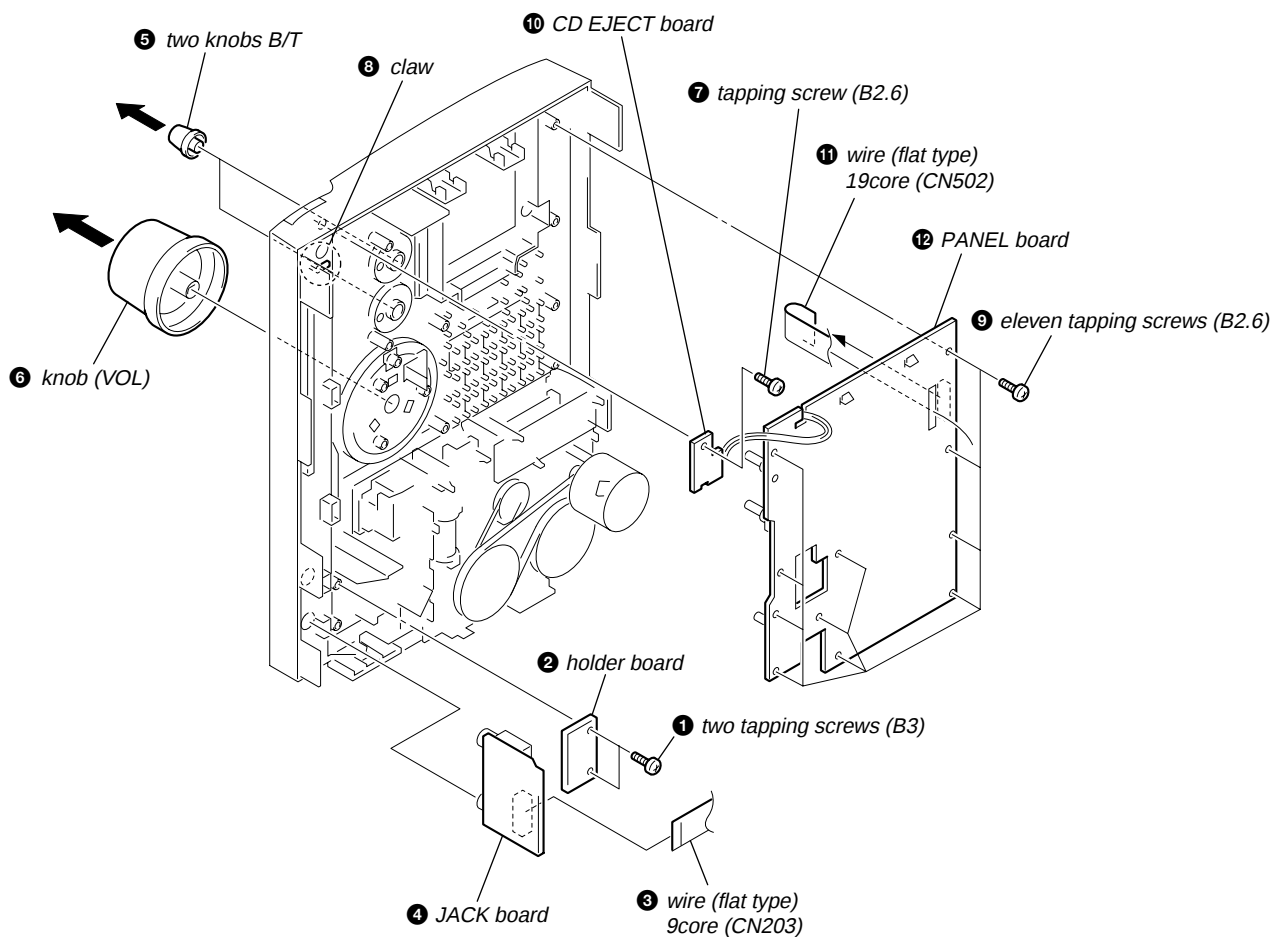
3-5. POWER TRANSFORMER



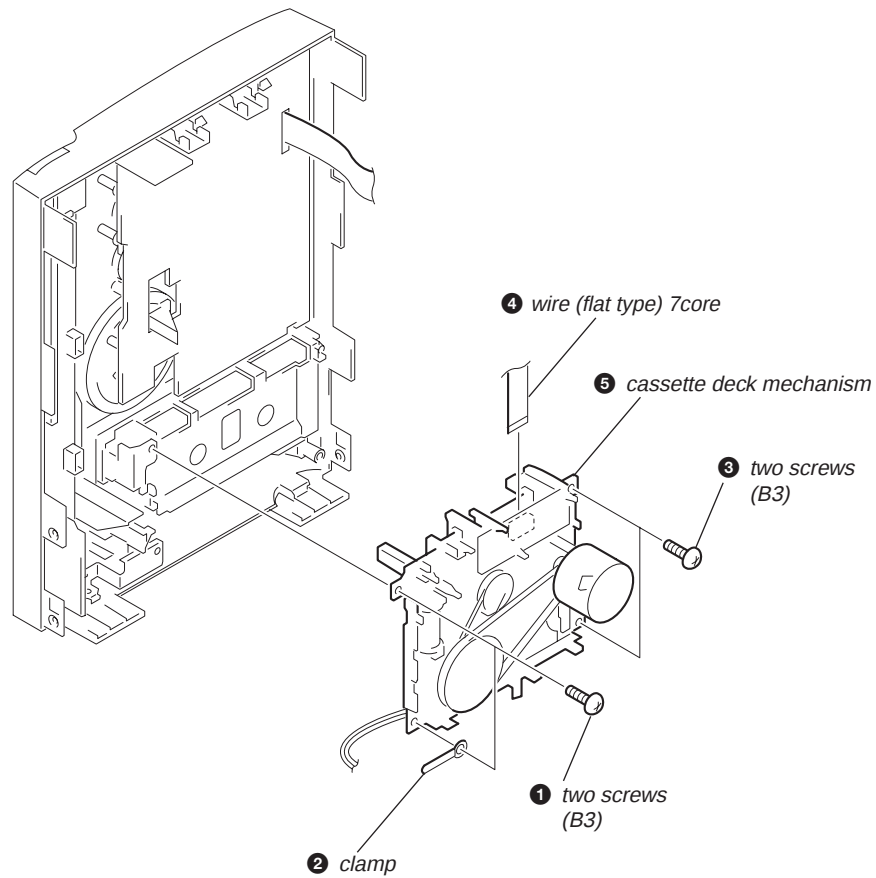
3-6. MAIN BOARD



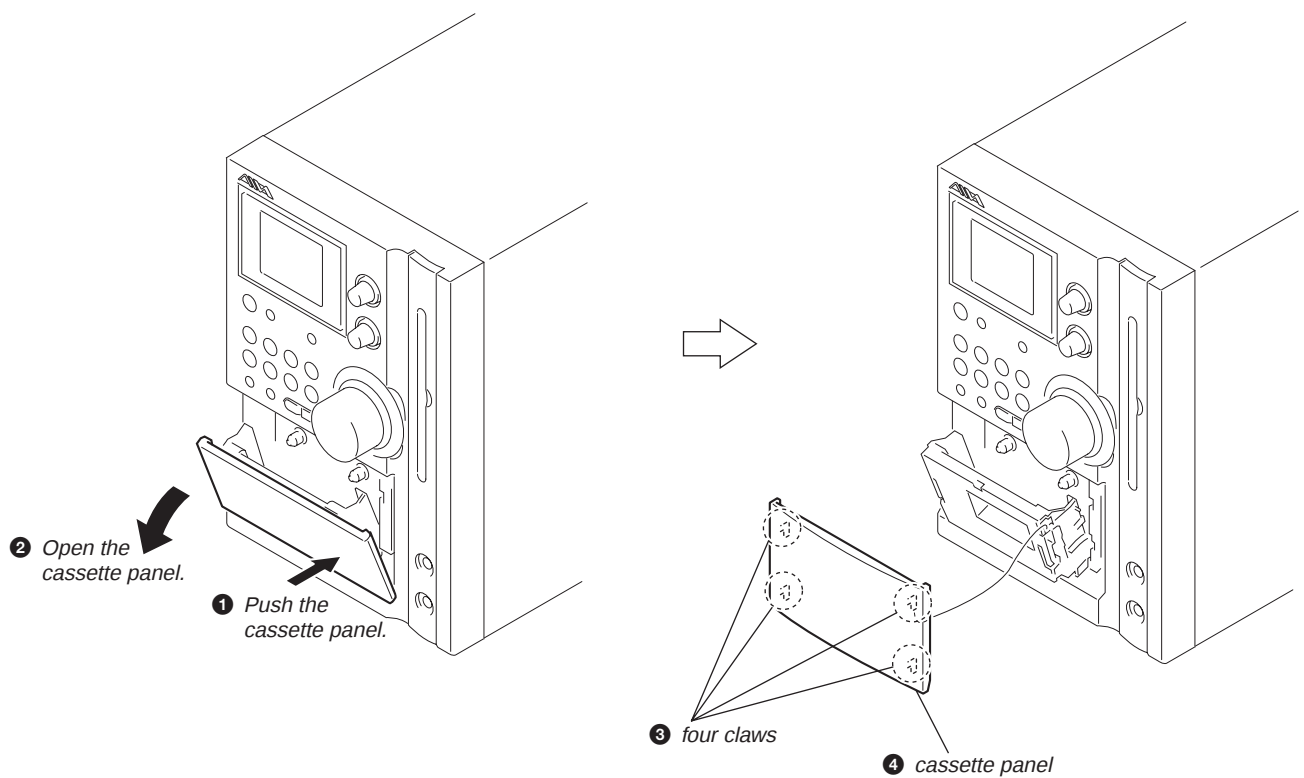
3-7. PANEL BOARD, CD EJECT BOARD, JACK BOARD



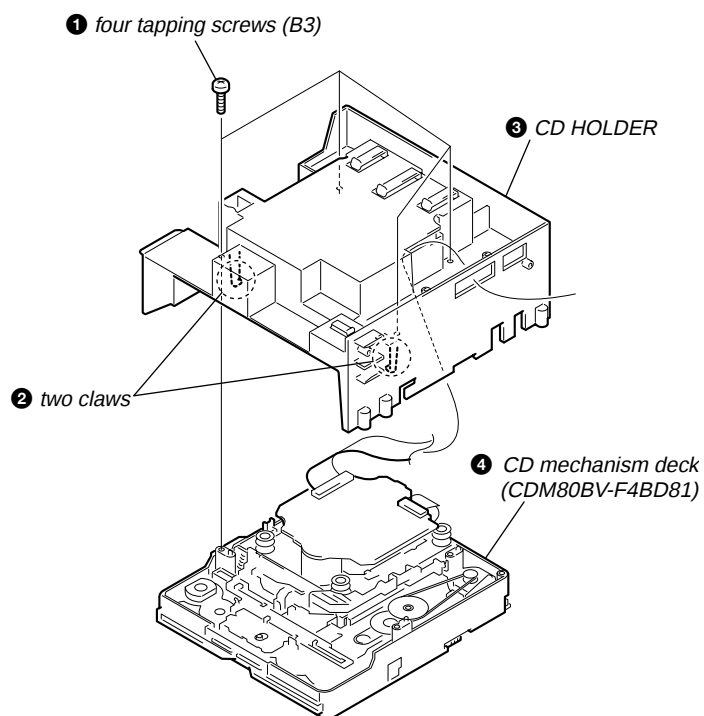
3-8. CASSETTE DECK MECHANISM



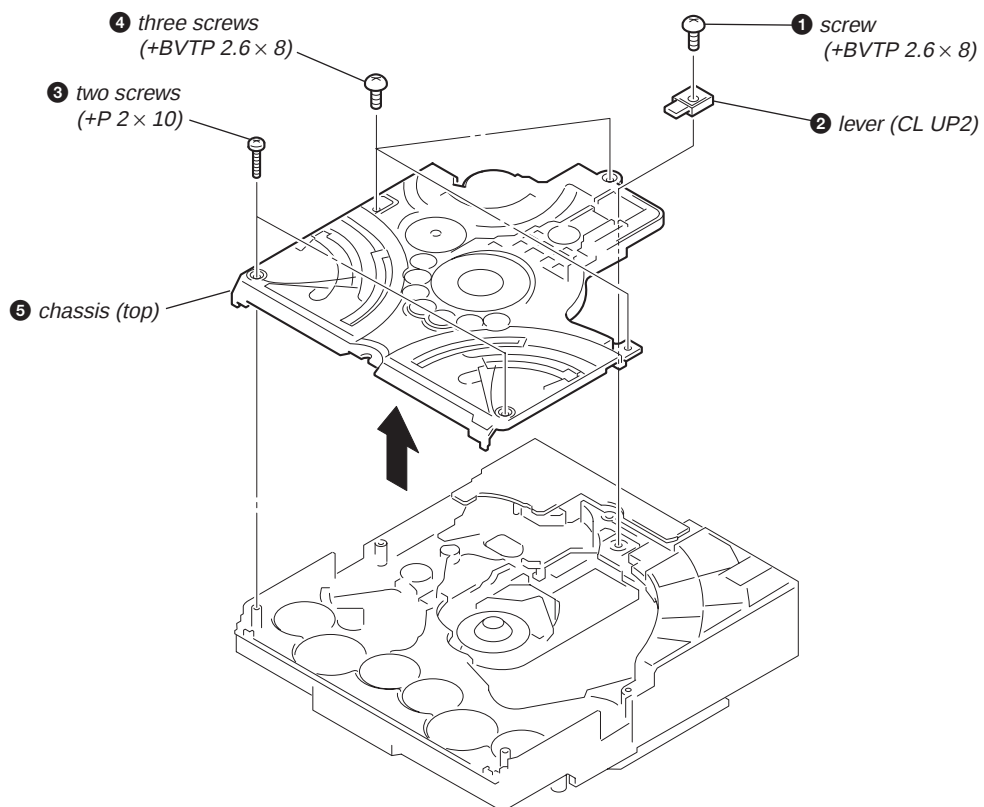
3-9. CASSETTE PANEL



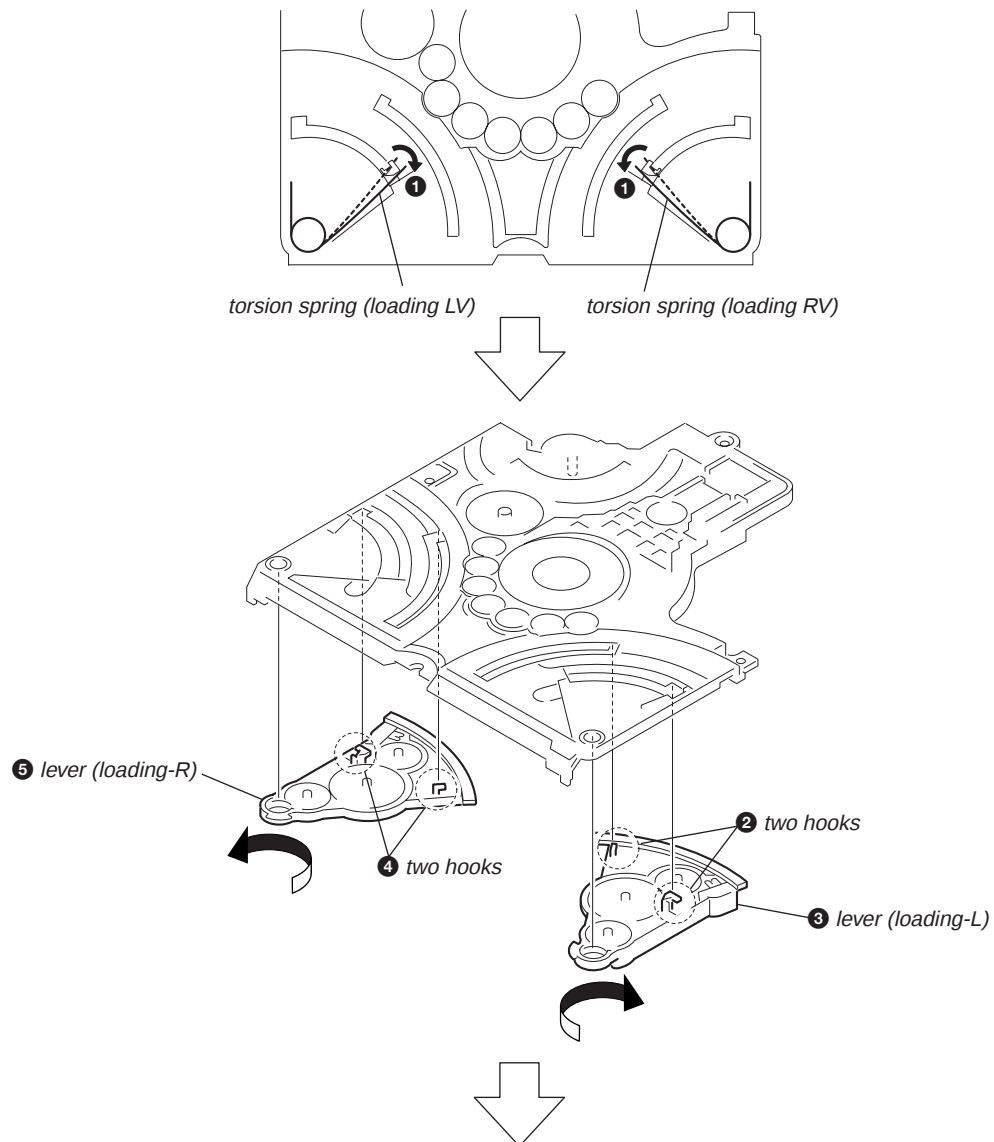
3-10. CD MECHANISM DECK (CDM80BV-F4BD81)



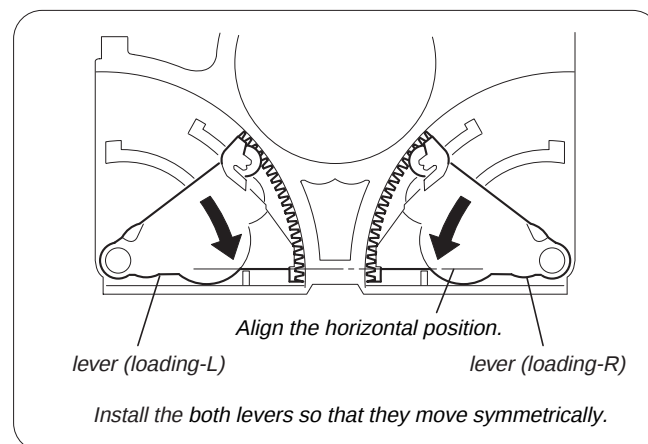
3-11. CHASSIS (TOP)



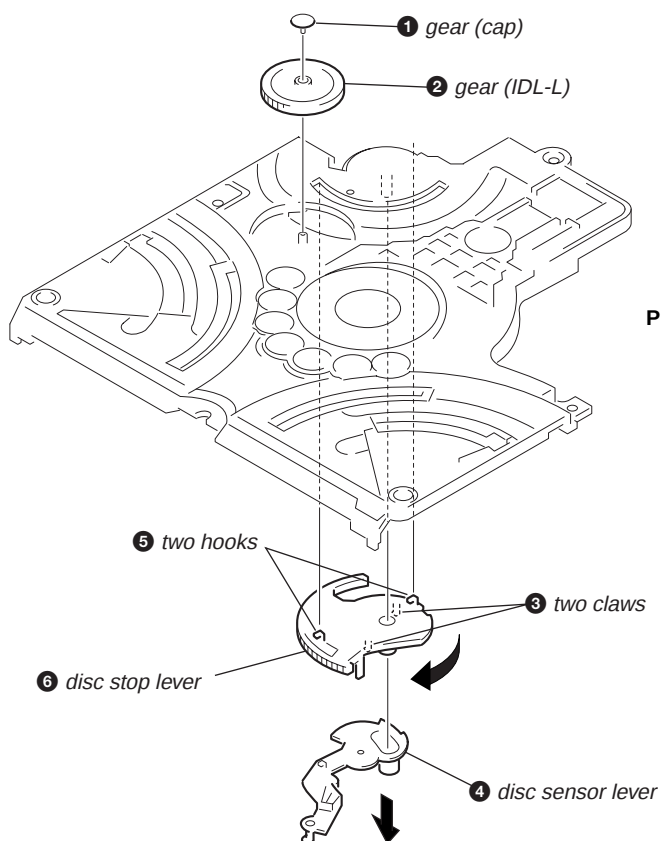
3-12. LEVER (LOADING R/L)



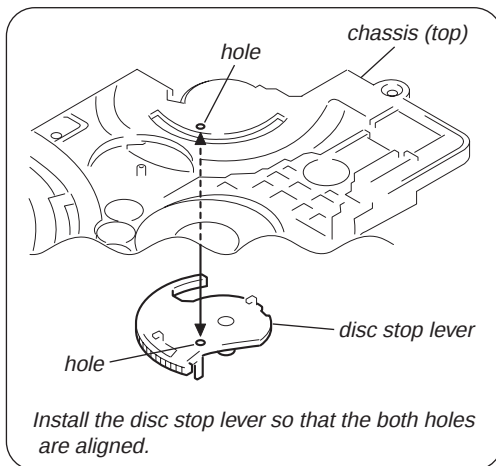
PRECAUTION DURING LEVER (LOADING R / L) INSTALLATION



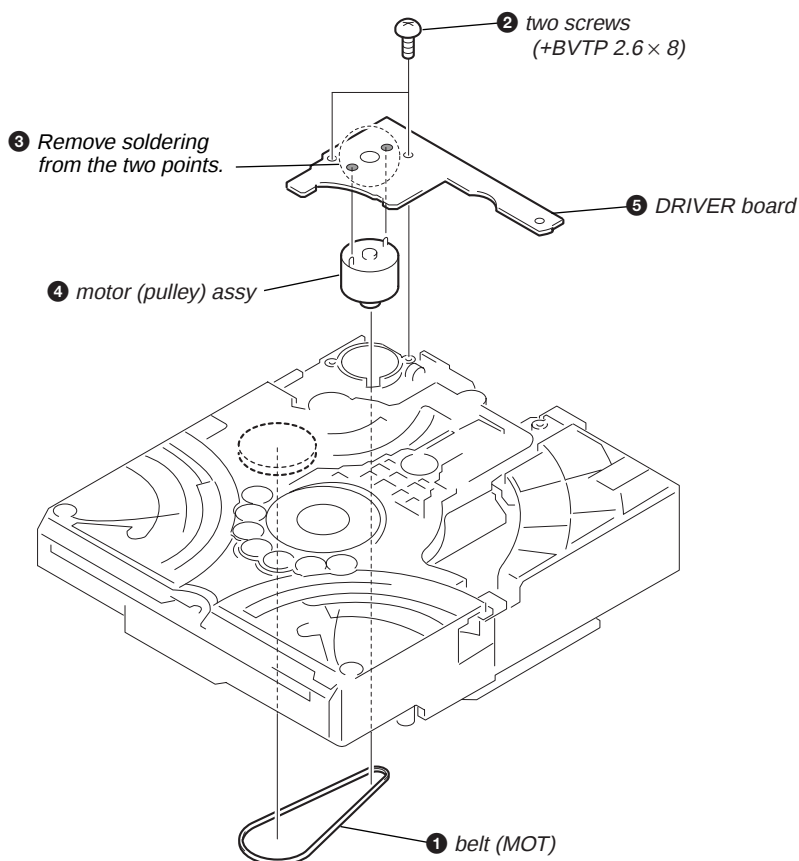
3-13. DISC STOP LEVER, DISC SENSOR LEVER



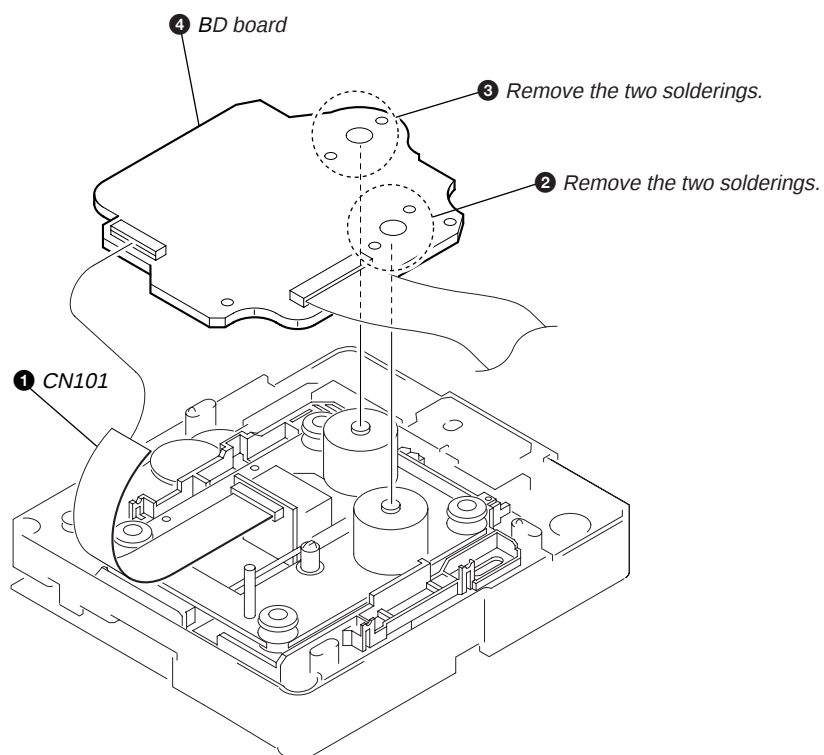
PRECAUTION DURING DISC STOP LEVER INSTALLATION



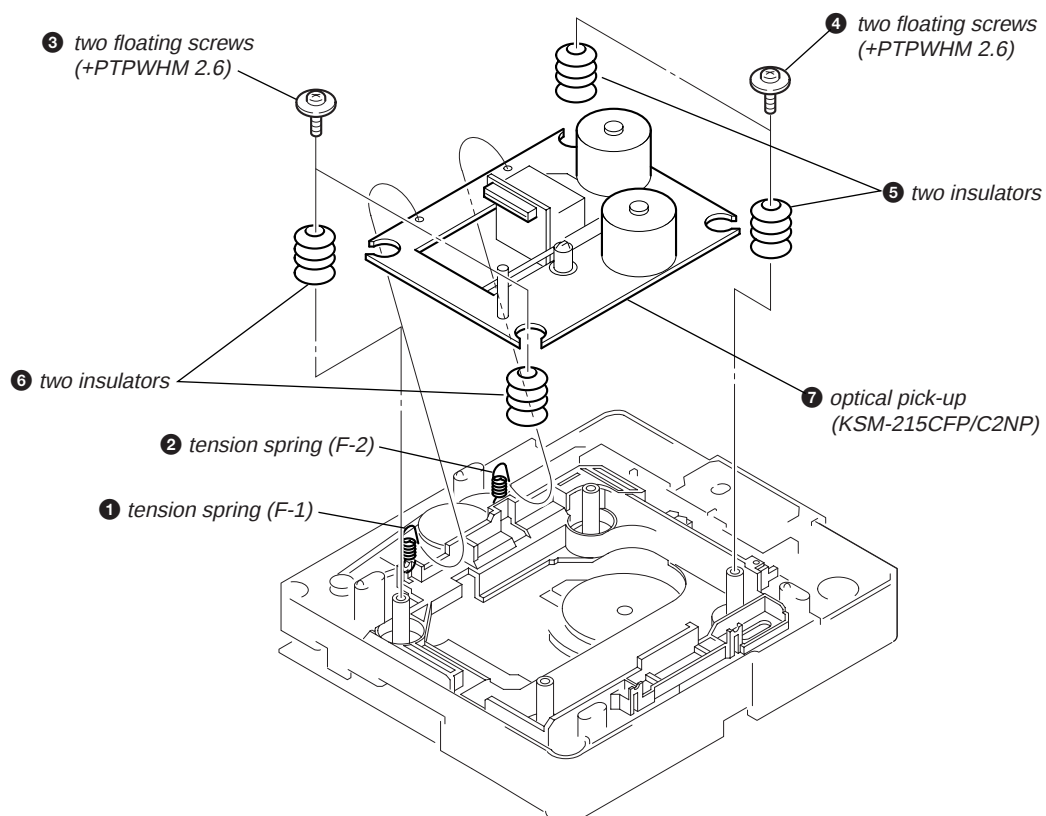
3-14. DRIVER BOARD



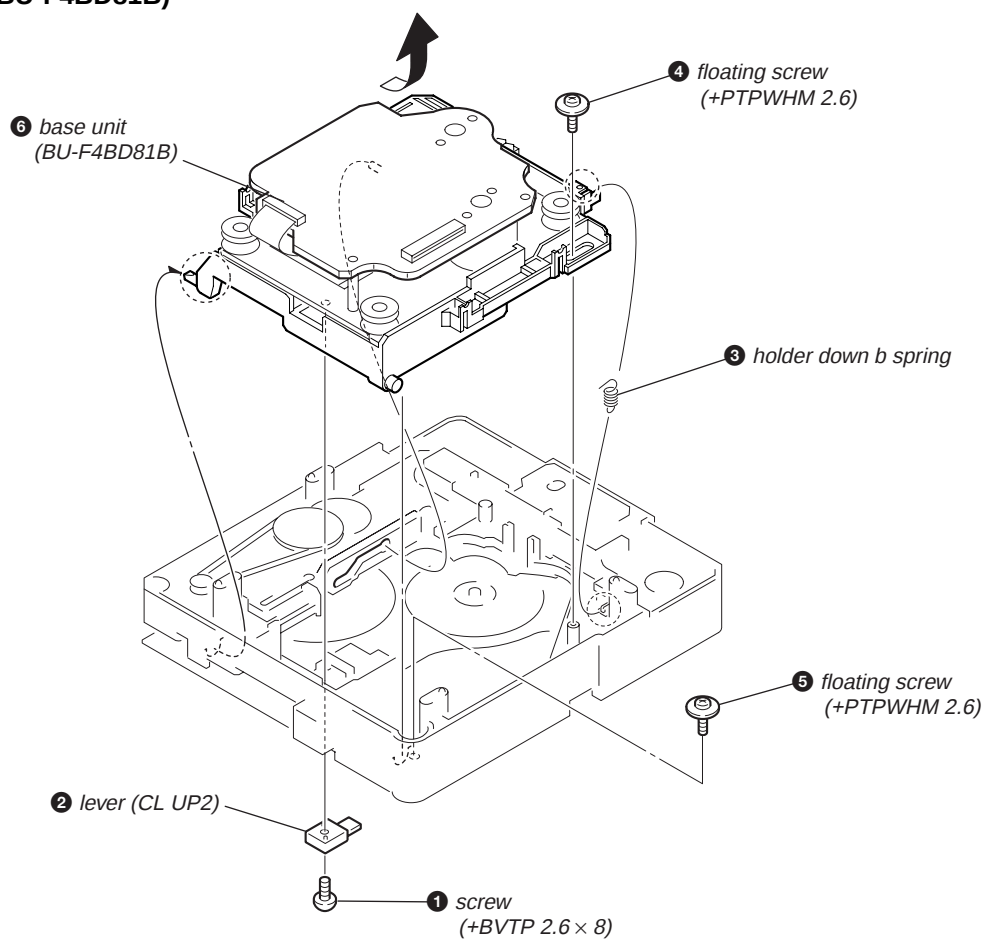
3-15. BD BOARD



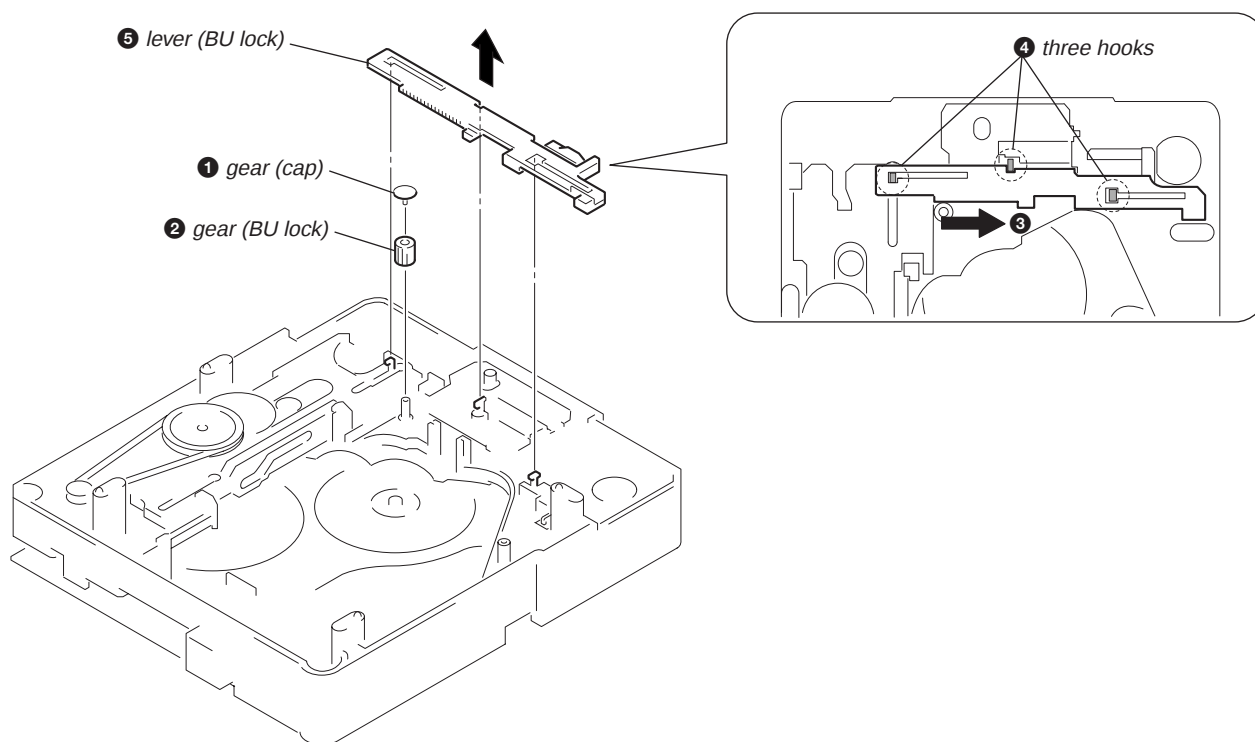
3-16. OPTICAL PICK-UP (KSM-215CFP/C2NP)



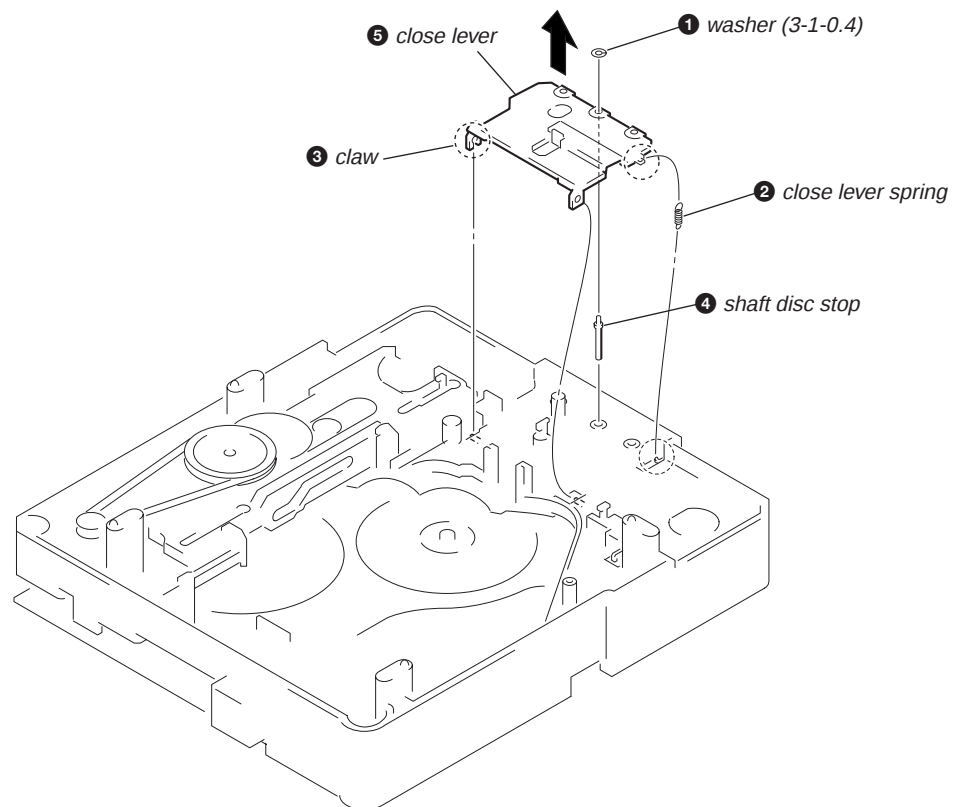
3-17. BASE UNIT (BU-F4BD81B)



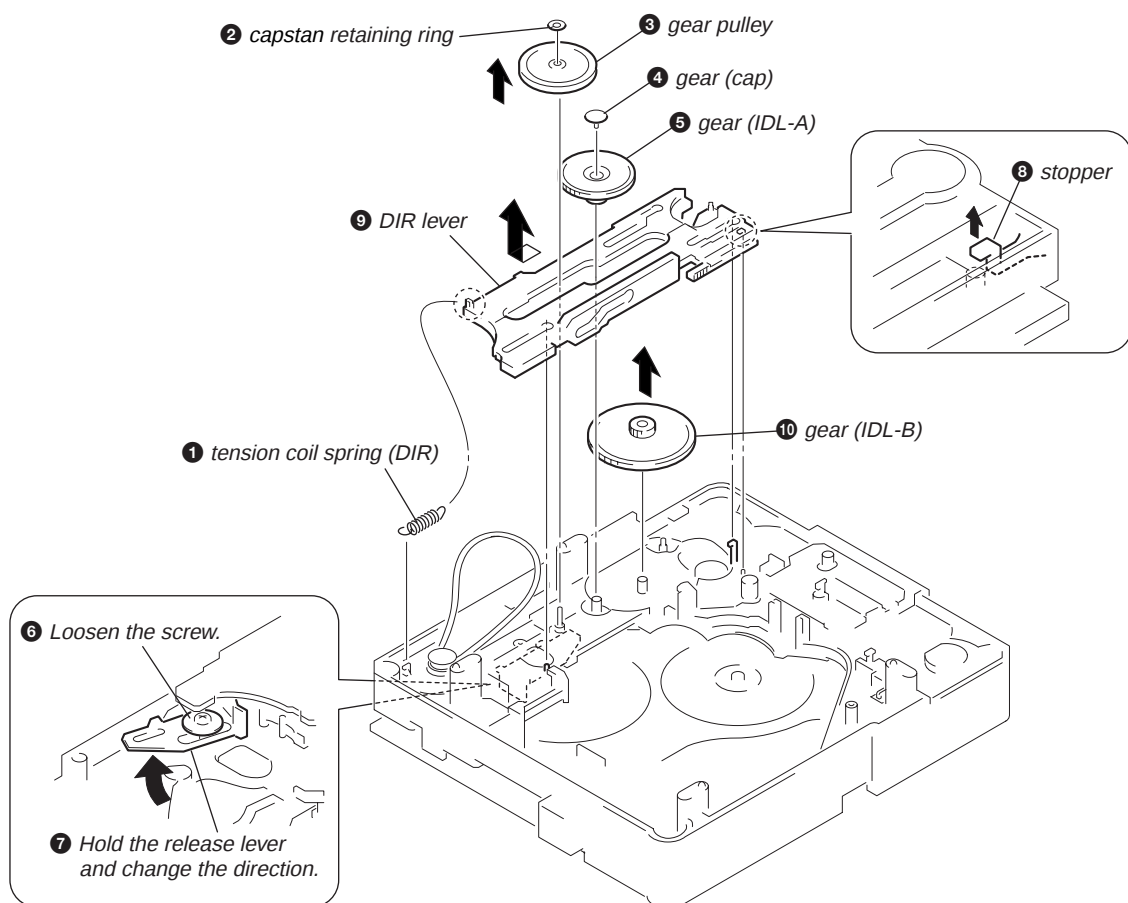
3-18. LEVER (BU LOCK)



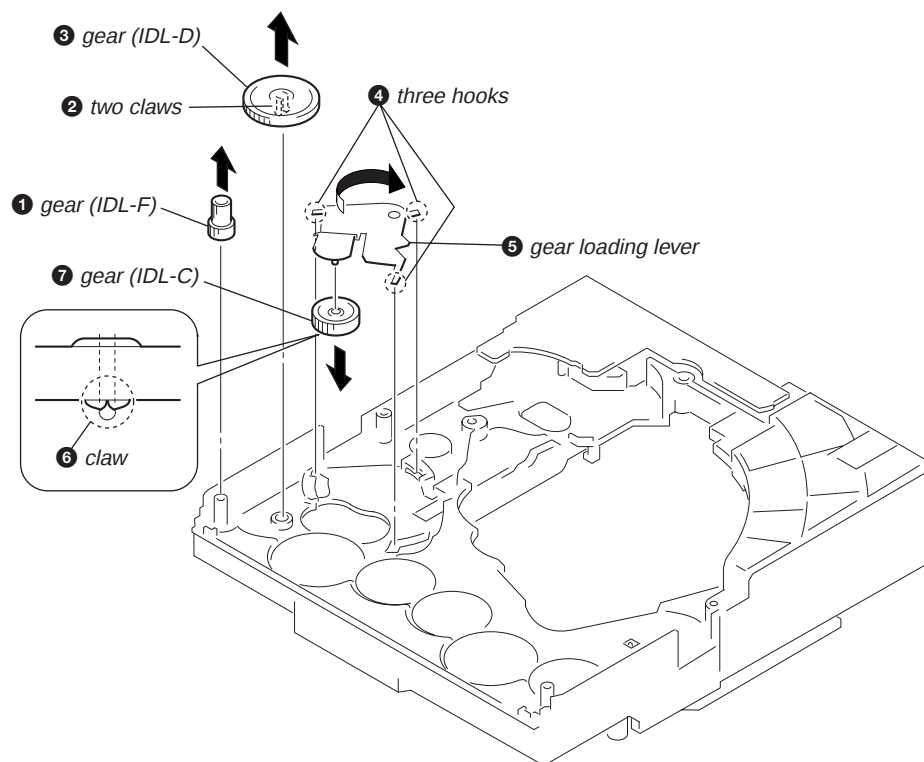
3-19. CLOSE LEVER



3-20. DIR LEVER, GEAR (IDL-B)



3-21. GEAR (IDL-C)



SECTION 4

TEST MODE

[COLD RESET]

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

Procedure:

1. Press the  button to turn off the main power.
2. Press two buttons of **AUDIO IN** and  simultaneously for more than two seconds.
3. The fluorescent indicator tube does not display any message and the set is reset.

[COMMON TEST]

- * This mode is used to check the function of the amplifier.

Procedure:

1. Press the  button to turn the set on.
2. Press two buttons of  and **DISPLAY** simultaneously for more than two seconds.
3. The message "Volume MAX" is displayed, when the **VOLUME** knob is rotated clockwise. The message "Volume MIN" is displayed, when the **VOLUME** knob is rotated counterclockwise.
4. Each time the **BASS** or **TREBLE** knob is turned or Press the **EQ** button (RM), the message "TONE MAX", "TONE MIN" or "TONE FLAT" is displayed in this order.

[PANEL TEST]

- * The panel test, the version, and inducing is displayed.

Procedure:

1. Press the  button to turn off the main power.
2. Press two buttons of **AUDIO IN** and **DISPLAY** simultaneously for more than two seconds.
3. All lighting display is done.
4. 4-1. To enter the test mode, press the button **i-Bass** simultaneously.
The version of the microcomputer is displayed.
- 4-2. To enter the key test mode, press the button **PLAY MODE/TUNING MODE** simultaneously.
The version of the microcomputer is displayed.
5. Press two buttons of **AUDIO IN** and **DISPLAY** simultaneously for more than two seconds, it ends.

[CD Repeat 5 Times Limit Release Mode]

Procedure:

1. Press the  button to turn the set on.
2. Select the FUNCTION to CD.
3. Press two buttons of  and **PLAY MODE/TUNING MODE** simultaneously for more than two seconds.
4. The repeat all mark blinks and then repeat 5 times limit is released.

[CD Ship Mode and Memory clear]

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

Procedure:

1. Press the  button to turn the set on.
2. Set the FUNCTION to CD.
3. Press two buttons of  and  simultaneously for more than two seconds.
4. After a message "MECHA LOCK" is displayed on the fluorescent indicator tube, the CD ship mode is set and the power is turned off.

[Disc anti-theft]

Procedure:

1. Press the  button to turn the set on.
2. Set the FUNCTION to CD.
3. Press two buttons of  and  simultaneously for more than five seconds.
4. Press two buttons of  and  simultaneously for more than five seconds to turn the set off.

[CD ERROR CODE]

Procedure:

1. Press the  button to turn the set on.
2. Set the FUNCTION to CD.
3. Press two buttons of **CD ►►** and **DISPLAY** simultaneously for more than two seconds.
4. Switch the CDM/NO DISC using , . Advance the number using , Reverse the number using .

[CD SERVICE MODE Mode]

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

Procedure:

1. Press the  button to turn the set on.
2. Set the FUNCTION to CD.
3. While depressing the **CD ►►** button, Press the **i-Bass** button. The message "SERVICE MODE" is displayed.
4. With the CD in stop status, press the  button to move the pickup to outside track, or press the  button to inside track.
5. When press the **CD ►►** button, normal playback is performed.
6. Each time the **CD ►►** button is pressed during normal playback, the tracking servo is switched on or off.
7. To exit this mode, either change to other functions or extract an AC plug.

[AM Channel Step 9 kHz/10kHz Selection Mode]

- * Either the 9 kHz step or 10 kHz step can be selected for the AM channel step.

Procedure:

1. Turn on the power, and press the **TUNER** button to select the AMP band.
2. Turn off the power.
3. Press the  button and the  button at the same time to enter this mode.

SECTION 5 MECHANICAL ADJUSTMENTS

TAPE MECHANISM DECK SECTION

Precaution

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

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

Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102C	2.94 – 7.84 mN • m (30 to 79 g • cm) (0.42 – 1.11 oz • inch)
FWD back tension	CQ-102C	0.15 – 0.59 mN • m (2 to 6 g • cm) (0.03 – 0.08 oz • inch)
REV	CQ-102RC	2.94 – 7.84 mN • m (30 to 79 g • cm) (0.42 – 1.11 oz • inch)
REV back tension	CQ-102RC	0.15 – 0.59 mN • m (2 to 6 g • cm) (0.03 – 0.08 oz • inch)
FF/REW	CQ-201B	6.86 – 17.64 mN • m (70 to 179 g • cm) (0.98 – 2.49 oz • inch)
FWD tension	CQ-403A	9.8 mN • m or more (100 g • cm or more) (1.4 oz • inch or more)
REV tension	CQ-403R	9.8 mN • m or more (100 g • cm or more) (1.4 oz • inch or more)

SECTION 6 ELECTRICAL ADJUSTMENTS

DECK SECTION

0 dB=0.775V

Precaution

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

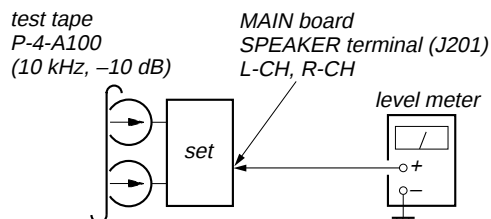
• Test Tape

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

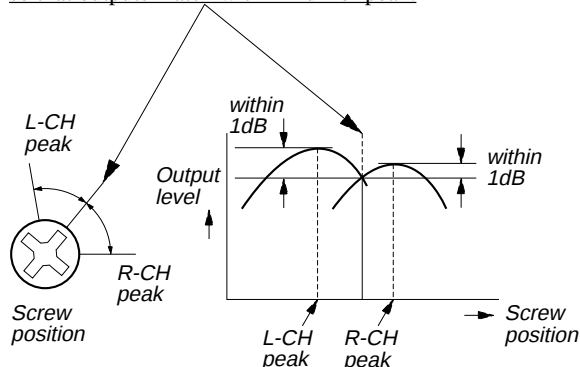
Record/Playback Head Azimuth Adjustment

Procedure:

1. Mode : Playback

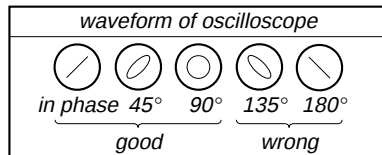
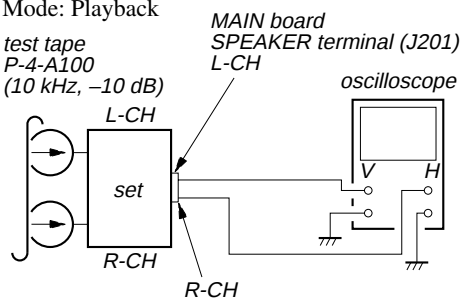


2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1 dB of peak.



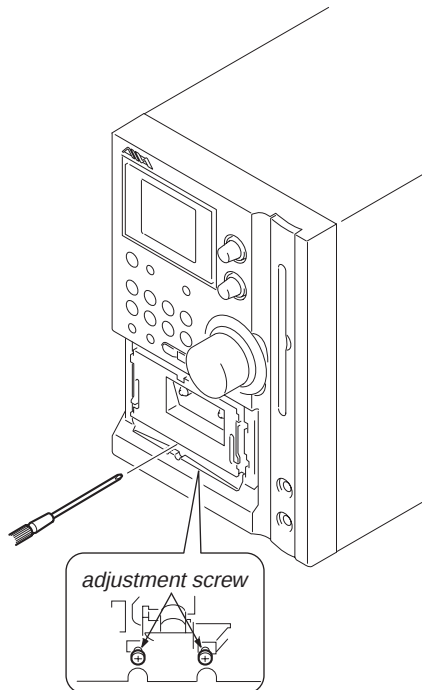
3. Mode: Playback

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



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

Adjustment Location: Record/Playback/Erase Head

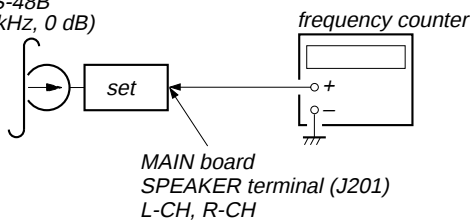


Note: Refer to "3-9. Cassette Panel" (see page 11)

Tape Speed Check

Mode: Playback

test tape
WS-48B
(3 kHz, 0 dB)



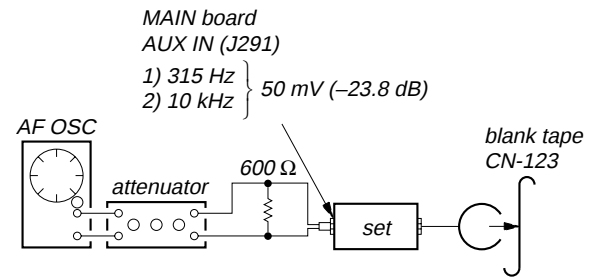
1. Insert the WS-48B into deck.
2. Press the **TAPE** button of deck.
3. Confirm that the frequency counter reads 3000 ± 90 Hz.

Sample Value of Wow and flutter: 0.3% or less W.RMS (JIS)
(WS-48B)

Record Bias Adjustment

Procedure:

1. Record mode

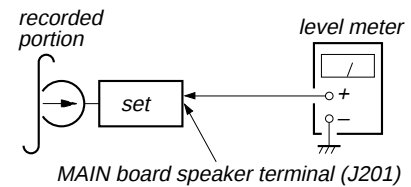


2. Mode: Playback

i-Bass OFF

BASS 0

TREBLE 0



3. Confirm playback the signal recorded in step 1 become adjustment level as follows.

Adjustment level: Playback output of 315 Hz to playback output of 10 kHz: 0 ± 1.0 dB (0 ± 4.5 mV).

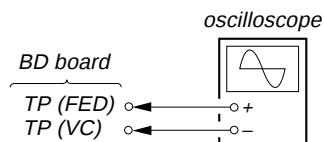
CD SECTION

Note:

1. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
2. Use an oscilloscope with more than 10M Ω impedance.
3. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

S-curve Check

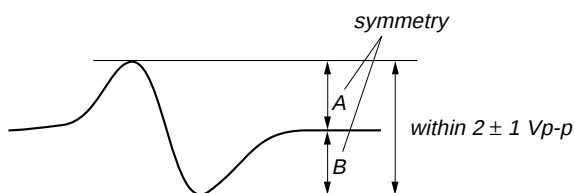
Connection:



Procedure:

1. Connect an oscilloscope to test point TP (FEO) and TP (VC) on the BD board.
2. While depressing the **CD** button, insert an AC plug.
3. Put the disc (YEDS-18) in and press the **■** button and actuate the focus search. (actuate the focus search when disc table is moving in and out)
4. Check the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 2 ± 1 Vp-p.

S-curve waveform

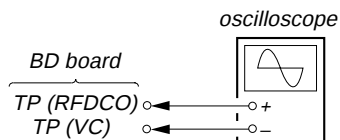


- Note:**
- Try to measure several times to make sure than the ratio of A : B or B : A is more than 10 : 7.
 - Take sweep time as long as possible and light up the brightness to obtain best waveform.

Checking Location: BD board (Conductor Side)

RFDC Level Check

Connection:

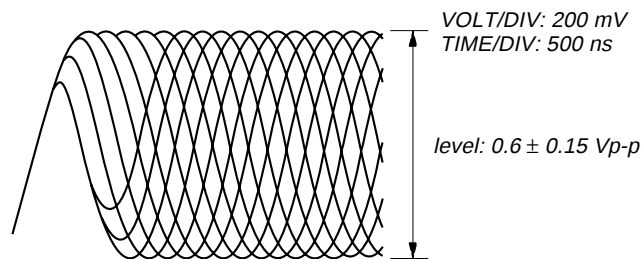


Procedure:

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

Note: A clear RFDC signal waveform means that the shape “ $\diamond$ ” can be clearly distinguished at the center of the waveform.

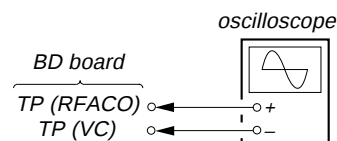
RFDC signal waveform



Checking Location: BD board (Conductor Side)

RFAC Level Check

Connection:

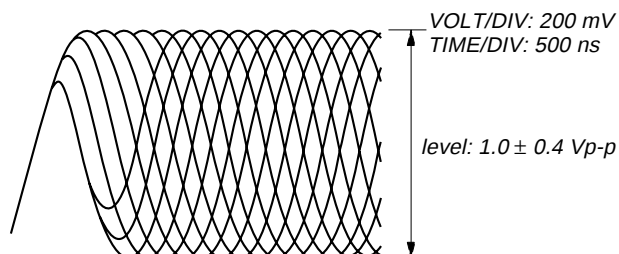


Procedure:

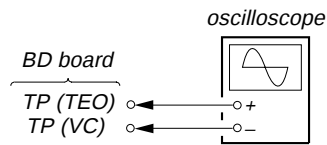
1. Connect an oscilloscope to test point TP (RFACO) and TP (VC) on the BD board.
2. Turn the power on.
3. Put the disc (YEDS-18) in to playback the number five track.
4. Confirm that oscilloscope waveform is clear and check RFAC signal level is correct or not.

Note: A clear RFAC signal waveform means that the shape “ $\diamond$ ” can be clearly distinguished at the center of the waveform.

RFAC signal waveform



Checking Location: BD board (Conductor Side)

E-F Balance Adjustment**Connection:****Procedure:**

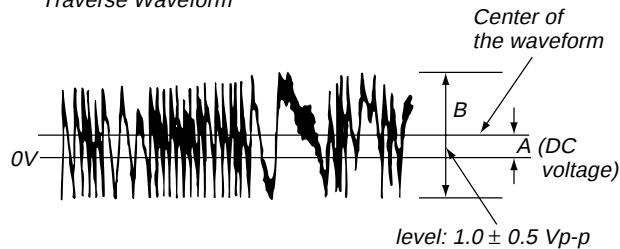
1. Connect an oscilloscope to test point TP (TEO) and TP (VC) on the BD board.
2. AC is put in pushing **CD ►||** button to enter the CD test mode.
3. Put the disc (YEDS-18) in to playback the number five track.
4. Press the **CD ►||** button. If it plays, press the **CD ►||** button again. (The tracking servo and the sledding servo are turned OFF)

5. Check the level B of the oscilloscope's waveform and the A (DC voltage) of the center of the Traverse waveform.

Confirm the following :

$$A/B \times 100 = \text{less than } \pm 10\%$$

Traverse Waveform

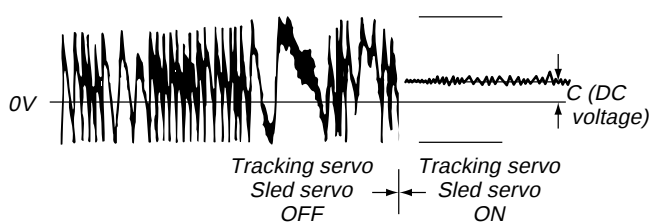


6. Press the **CD ►||** button. (The tracking servo and sledding servo are turned ON)
Rotate RV101 on BD board and adjust the C (DC voltage) is almost equal to the A (DC voltage) in step 4.
7. To exit from this mode, turn the power off.

Notes:

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

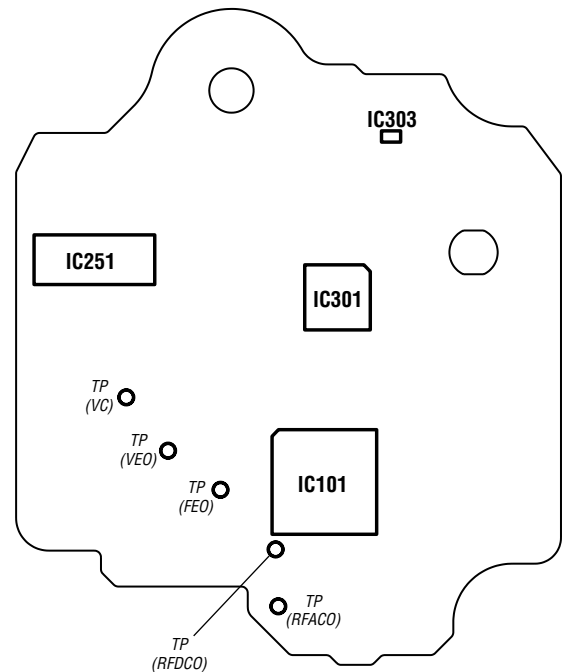
Traverse Waveform



Checking Location: BD board (Conductor Side)

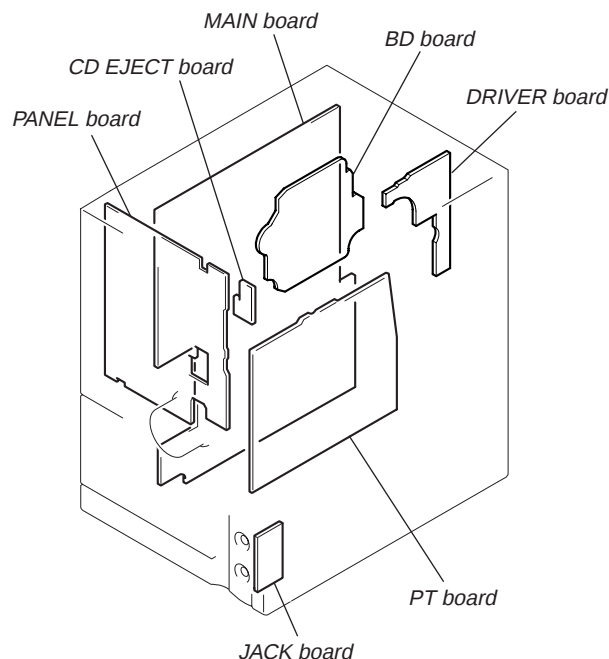
Checking Location:

– BD BOARD (Conductor Side) –



SECTION 7 DIAGRAMS

• Circuit Boards Location



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

For Schematic Diagrams.

Note:

- All capacitors are in μF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- Δ : internal component.
- : 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.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
No mark: FM
- 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.
- T : TUNER
- C : CD
- A : AUX
- P : PB (TAPE)
- R : REC (TAPE)
- Abbreviation
- E51 : Chilean and Peruvian model.
- RU : Russian model.

For Printed Wiring Boards.

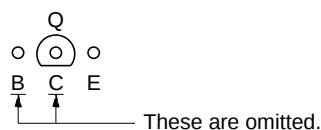
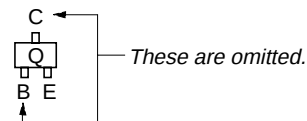
Note:

- : parts extracted from the component side.
- : parts extracted from the conductor side.
- Δ : internal component.
- : Pattern from the side which enables seeing.

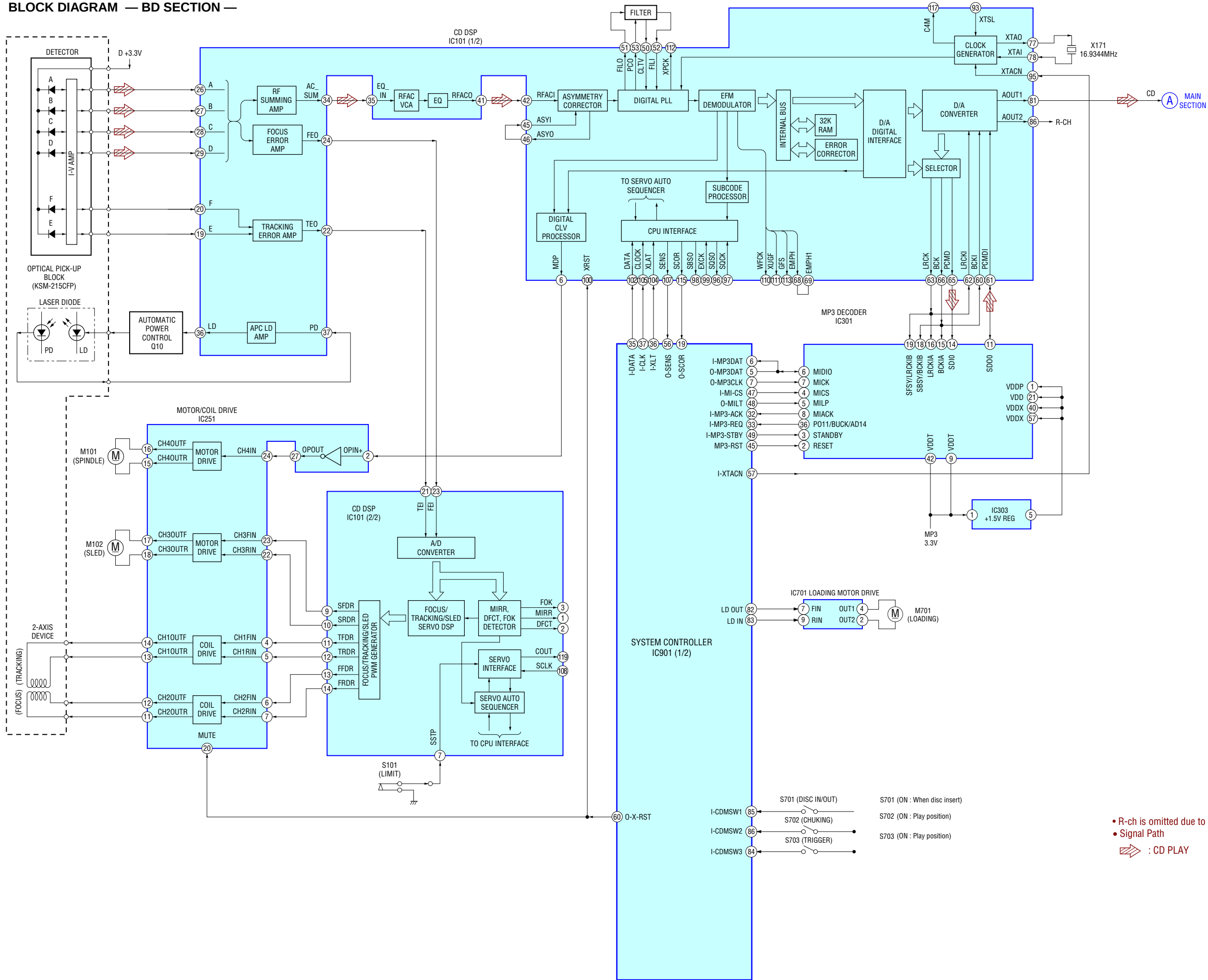
Caution:

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.

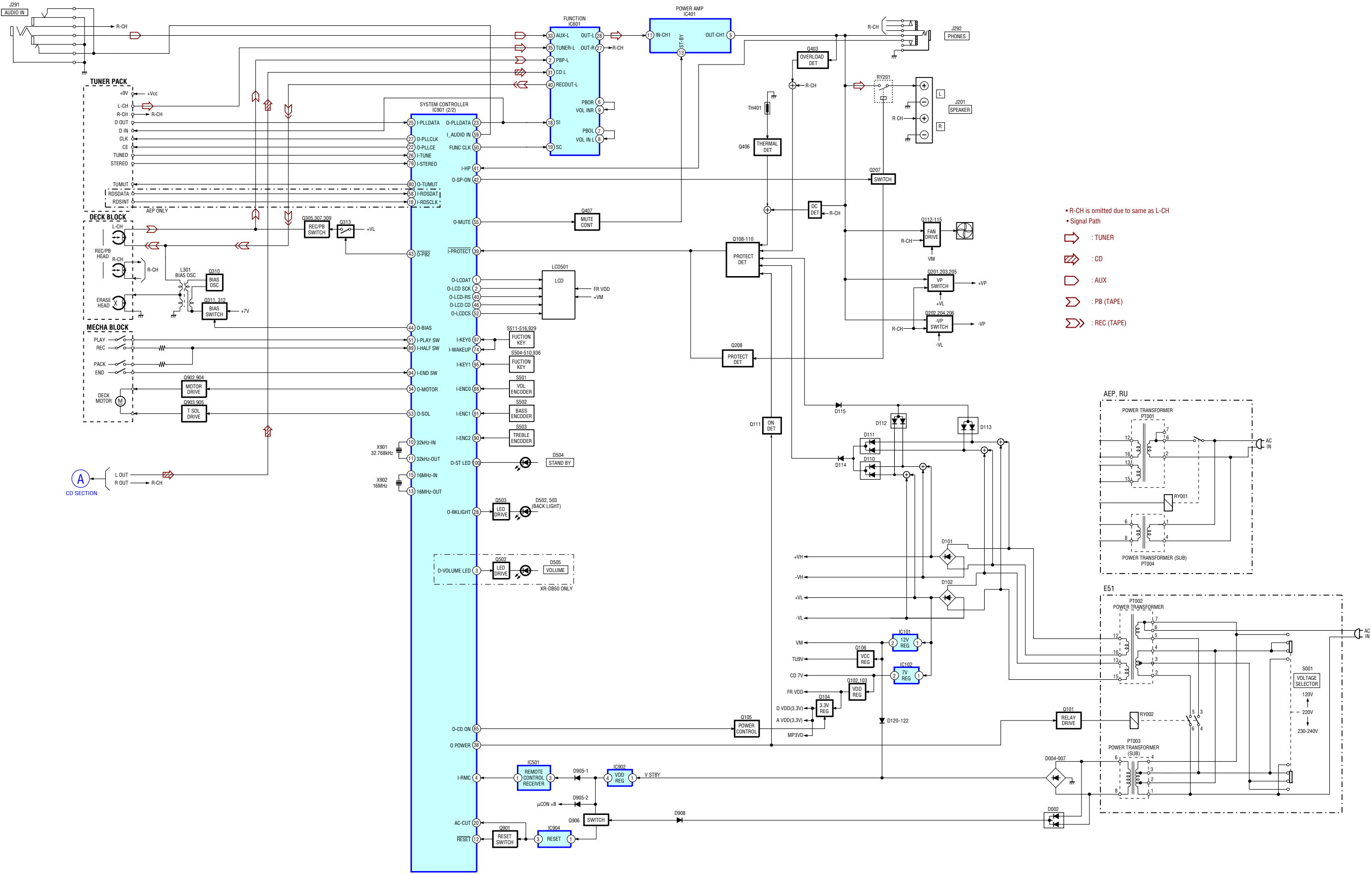


7-1. BLOCK DIAGRAM — BD SECTION —

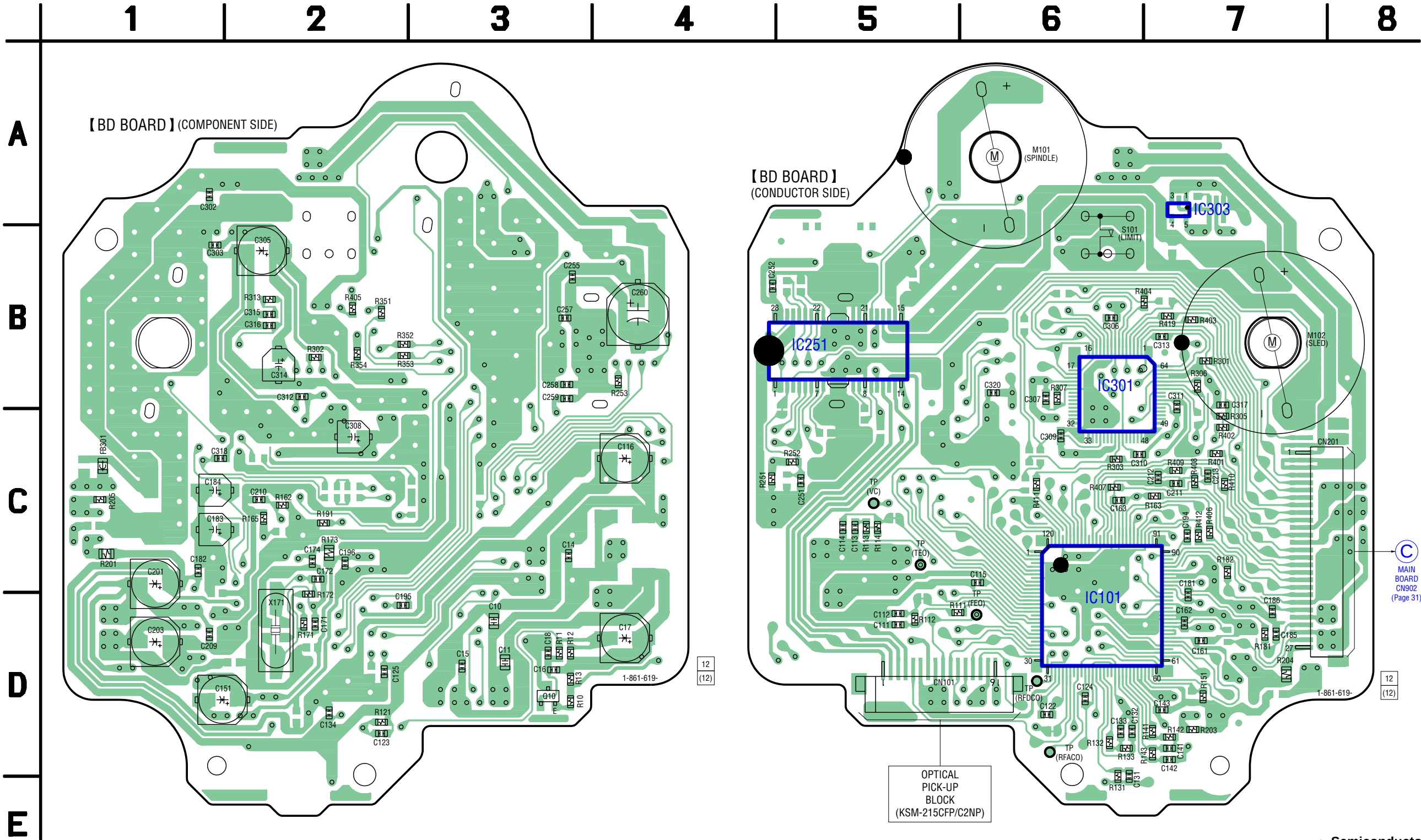


• R-ch is omitted due to same as L-ch
• Signal Path
➡ : CD PLAY

7-2. BLOCK DIAGRAM — MAIN SECTION —

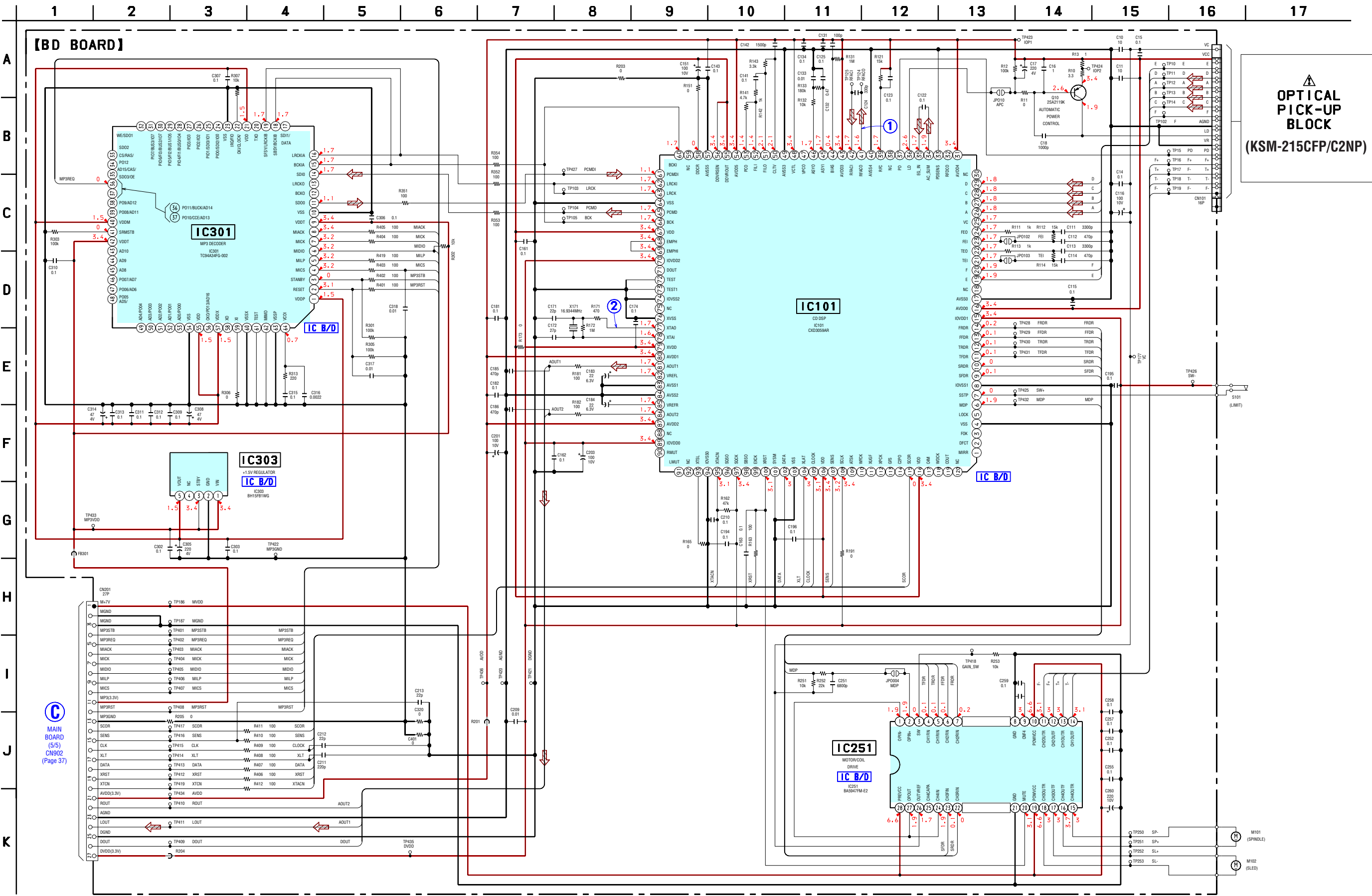


7-3. PRINTED WIRING BOARD — BD BOARD — • See page 24 for Circuit Boards Location. :Uses unleaded solder.

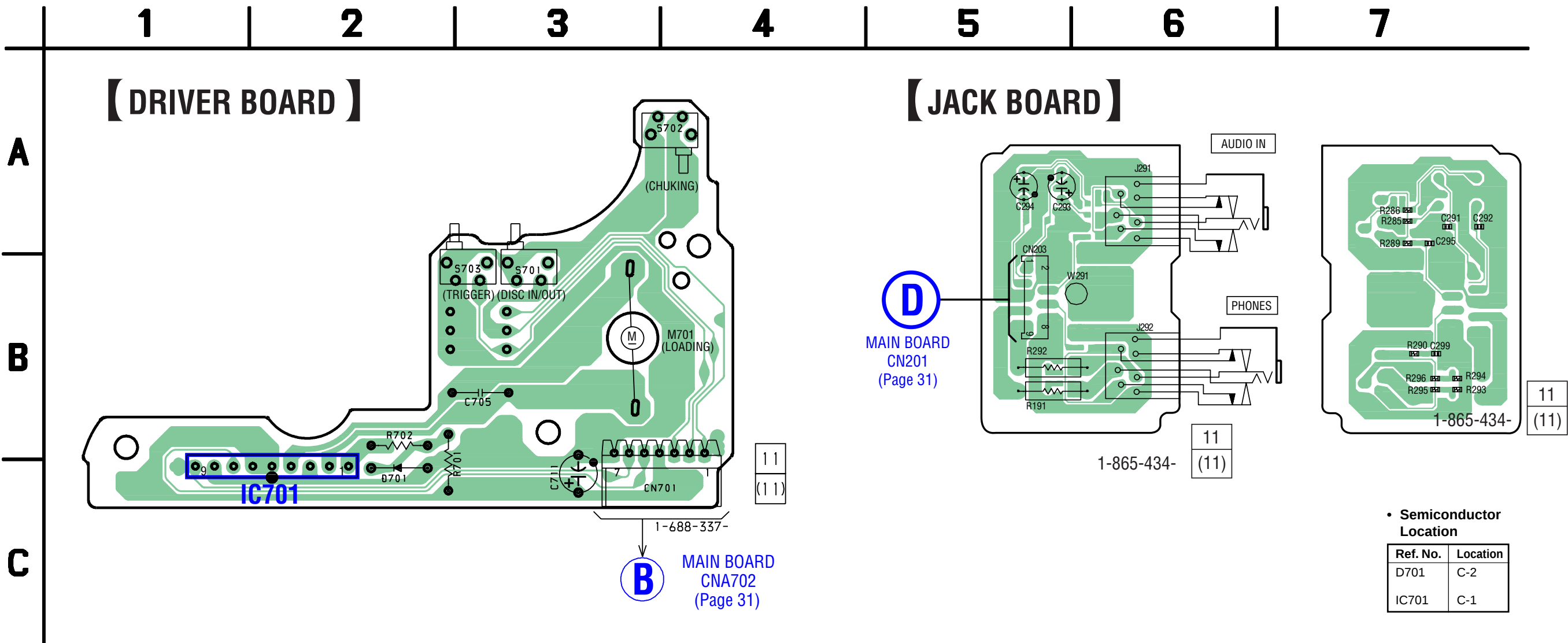


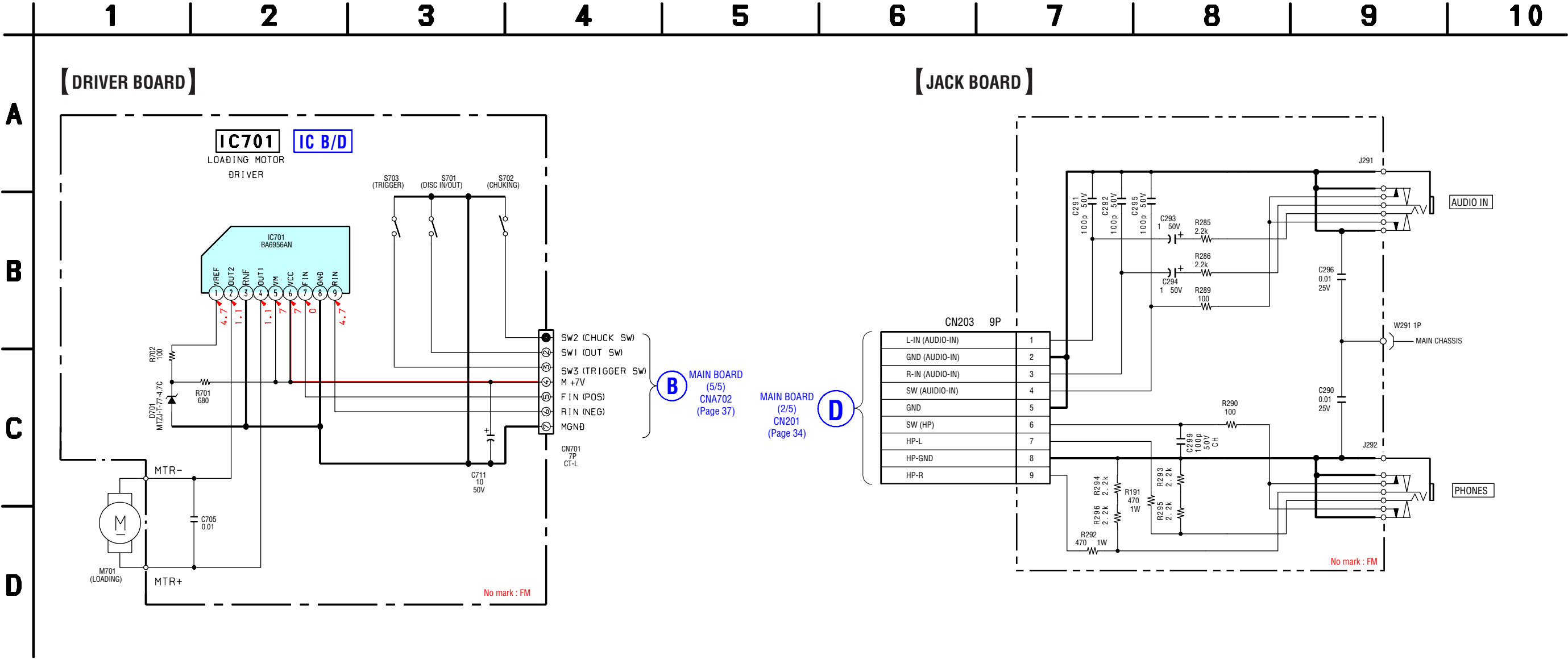
• Semiconductor Location

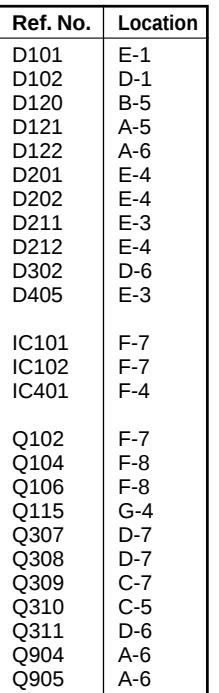
Ref. No.	Location
IC101	D-6
IC251	B-5
IC301	B-6
IC303	A-7
Q10	D-3

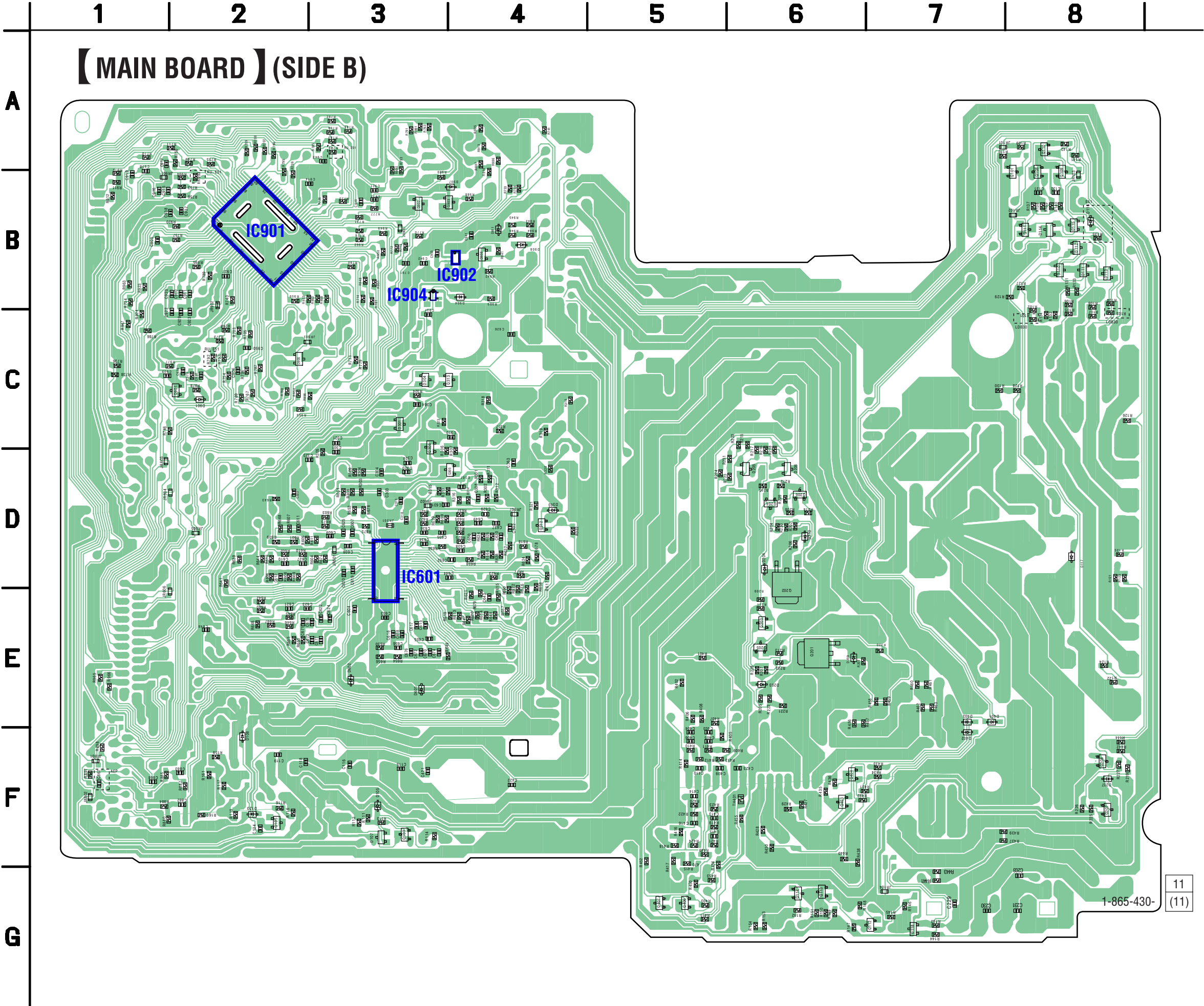


7-5. PRINTED WIRING BOARD — DRIVER BOARD, JACK BOARD — • See page 24 for Circuit Boards Location. :Uses unleaded solder.





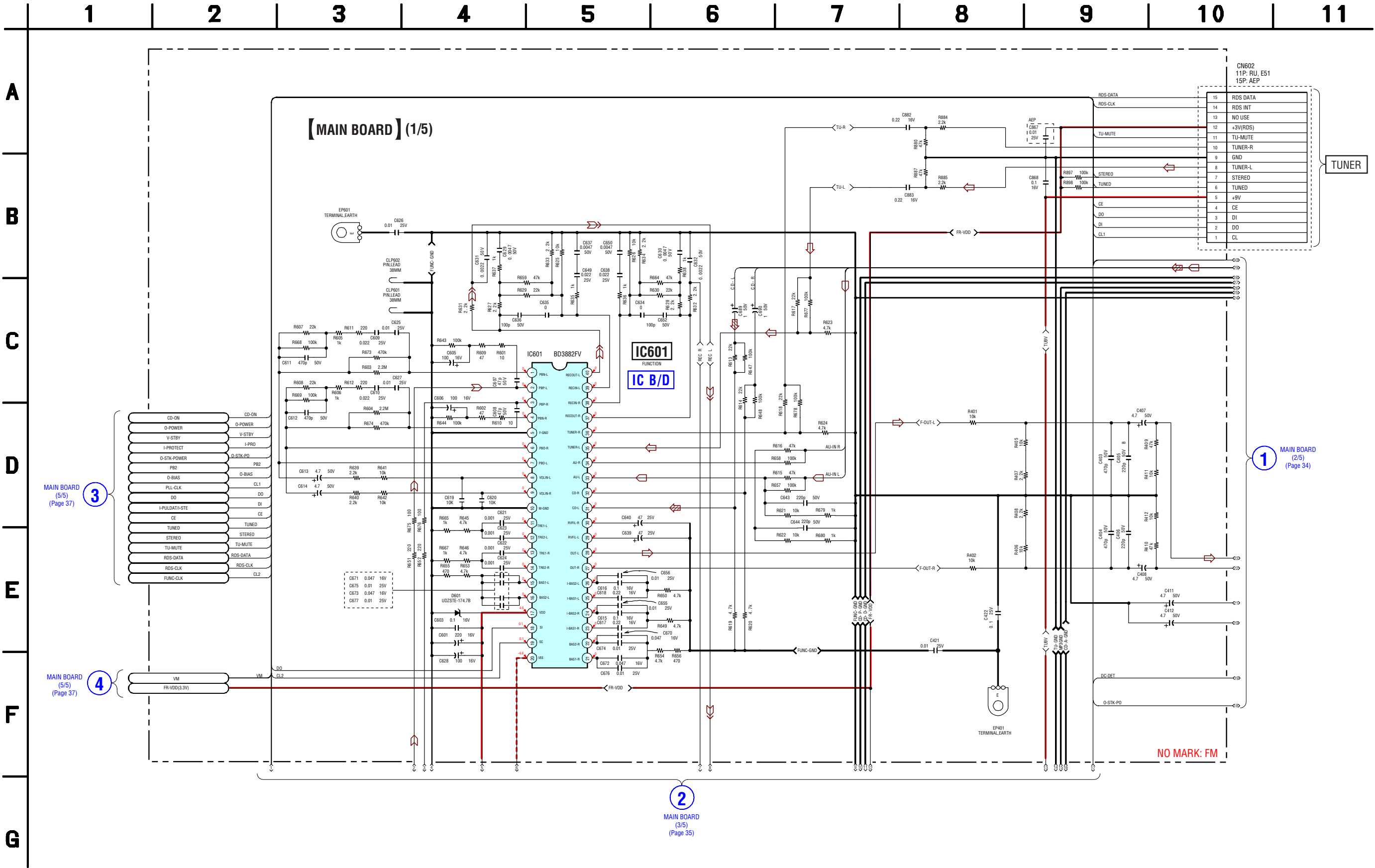


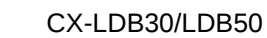


• Semiconductor Location

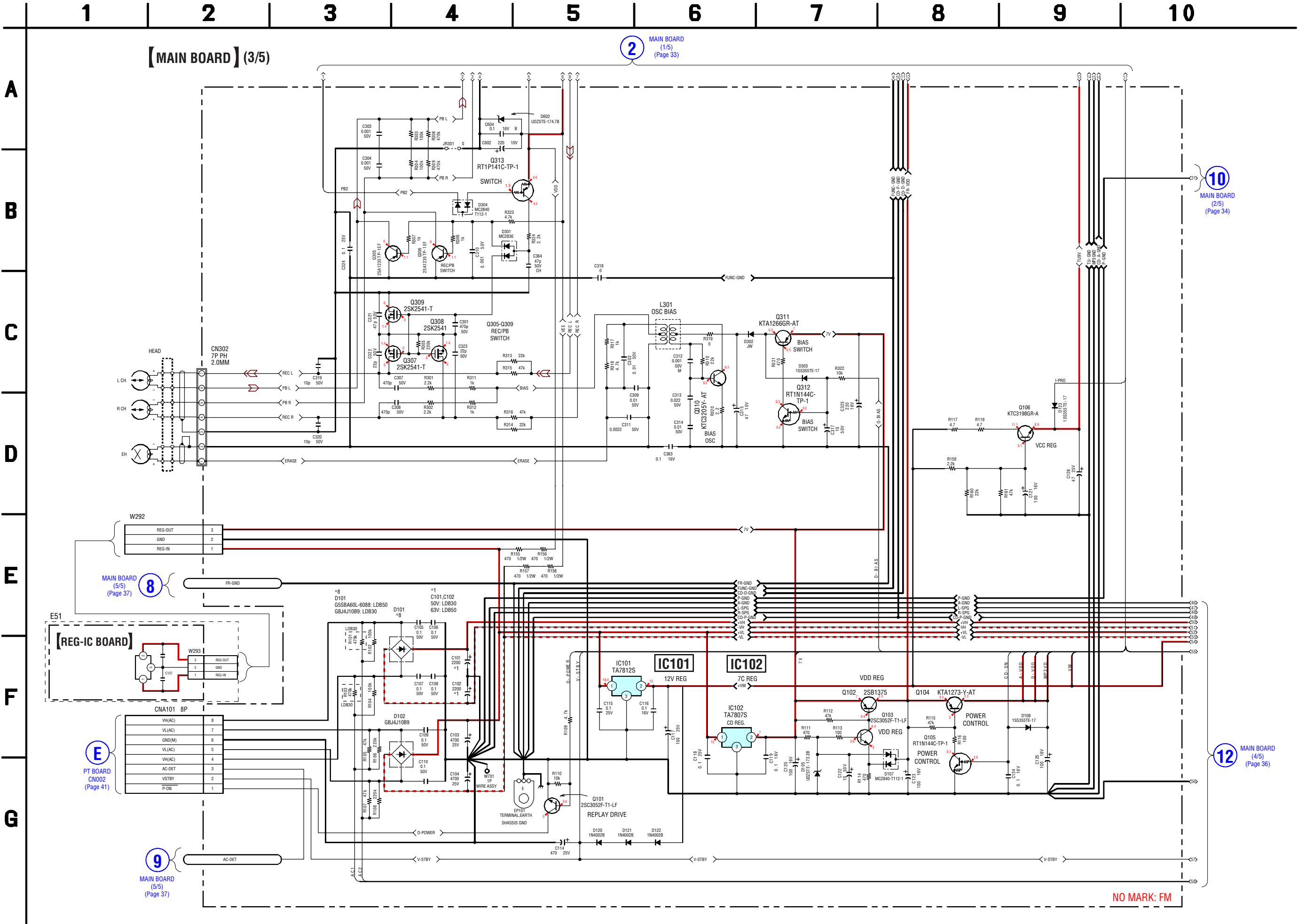
Ref. No.	Location
D105	F-3
D107	F-3
D108	F-2
D110	B-8
D111	B-8
D112	B-8
D113	B-8
D114	B-8
D115	B-8
D116	B-8
D117	D-8
D118	G-7
D123	F-2
D203	E-6
D204	D-6
D205	D-6
D206	D-6
D207	F-8
D209	E-6
D210	D-6
D301	C-3
D303	D-4
D304	C-3
D401	E-7
D402	F-7
D403	E-7
D601	E-3
D602	E-3
D901	C-2
D904	B-4
D905	C-2
D907	B-4
D908	B-4
D911	B-4
IC601	D-3
IC901	B-2
IC902	B-4
IC904	B-3
Q101	B-8
Q103	F-3
Q105	F-2
Q108	B-8
Q109	B-8
Q110	A-8
Q111	B-8
Q112	G-7
Q113	G-6
Q114	G-6
Q201	E-6
Q202	E-6
Q203	E-6
Q204	D-6
Q205	E-6
Q206	D-6
Q207	F-8
Q208	F-8
Q305	D-4
Q306	C-3
Q312	D-4
Q313	C-4
Q403	F-6
Q404	F-6
Q406	G-5
Q407	G-5
Q901	C-2
Q902	B-3
Q903	B-4
Q906	B-4

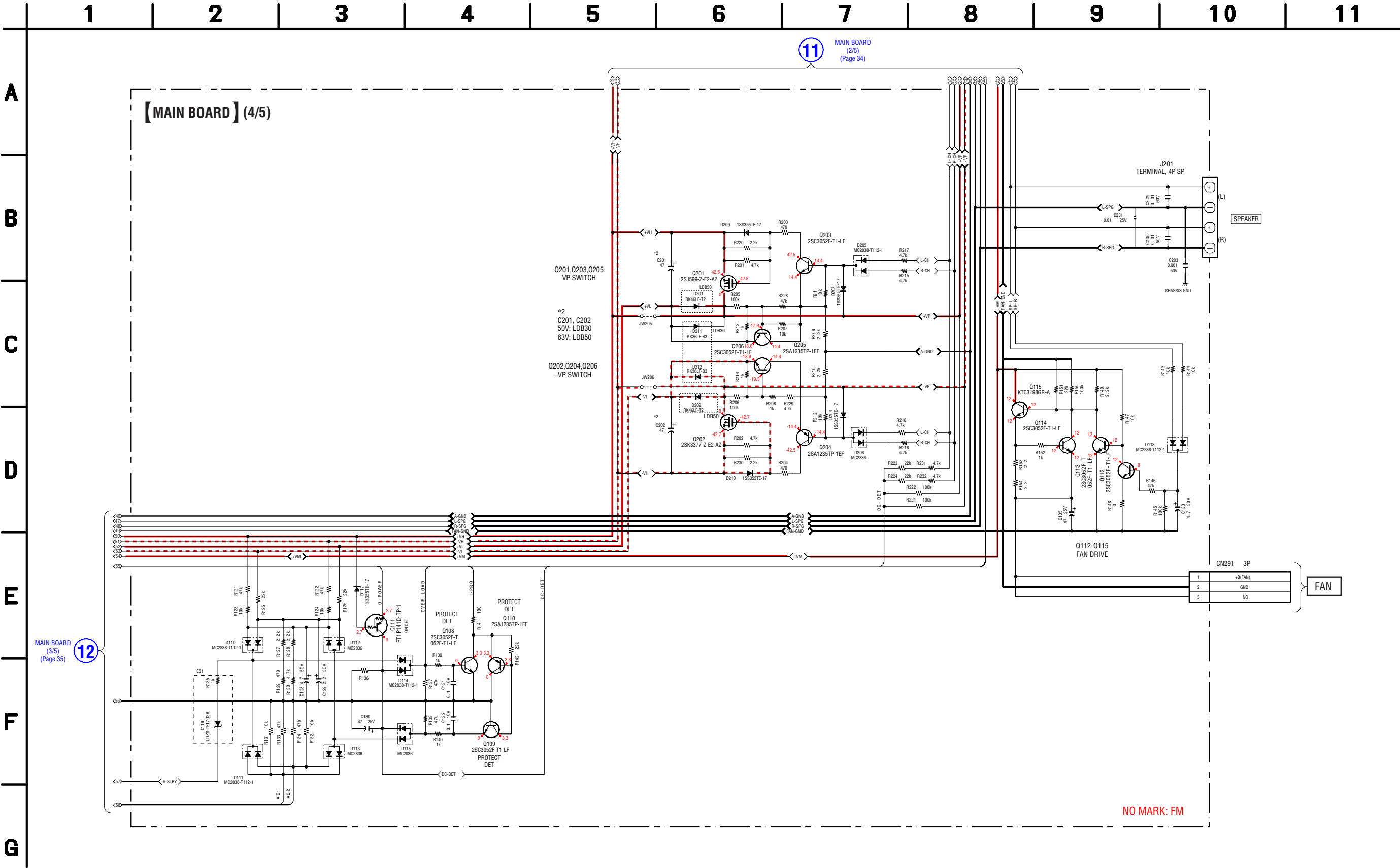
7-9. SCHEMATIC DIAGRAM — MAIN SECTION (1/5) — • See page 44 for IC Block Diagram.



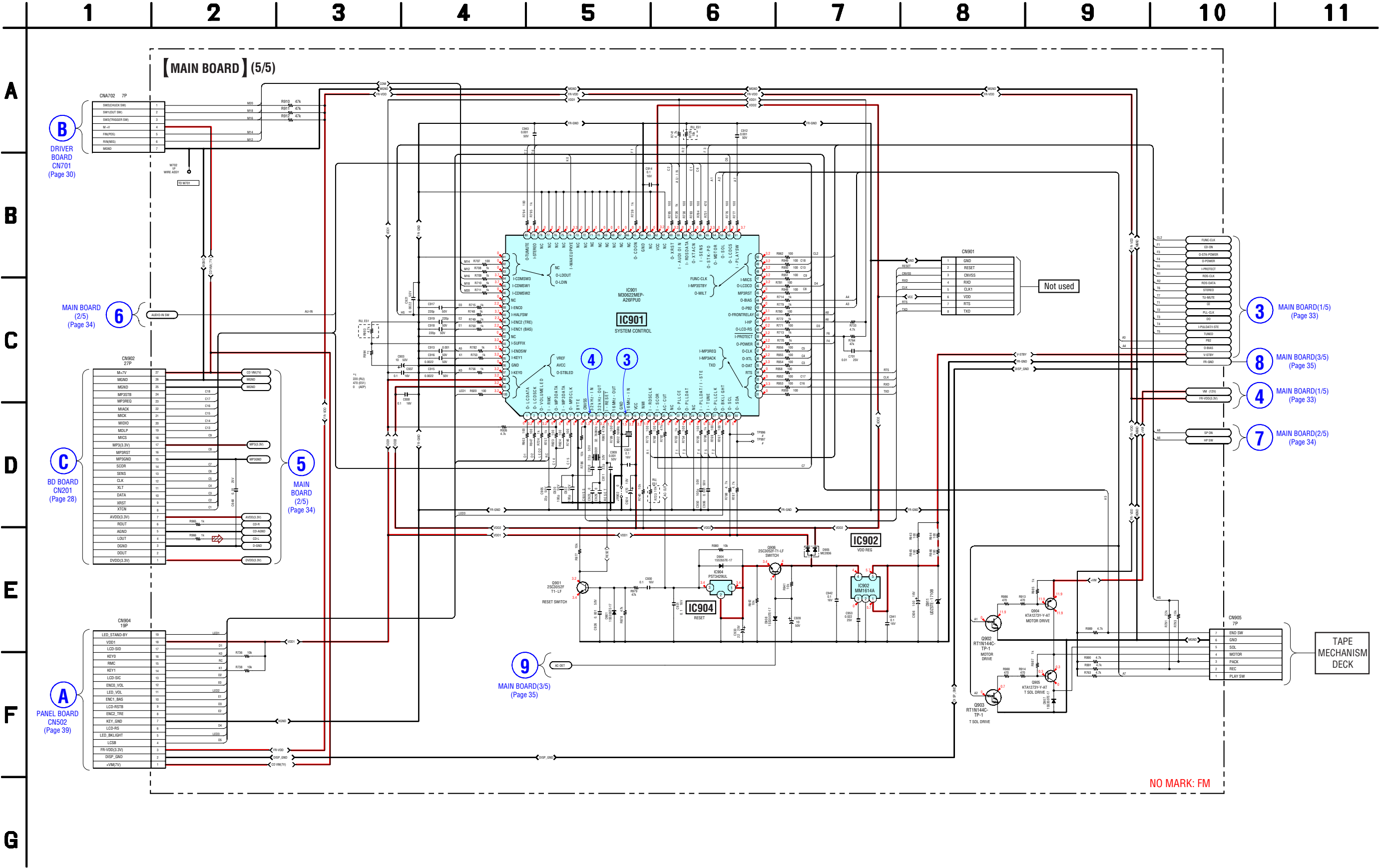


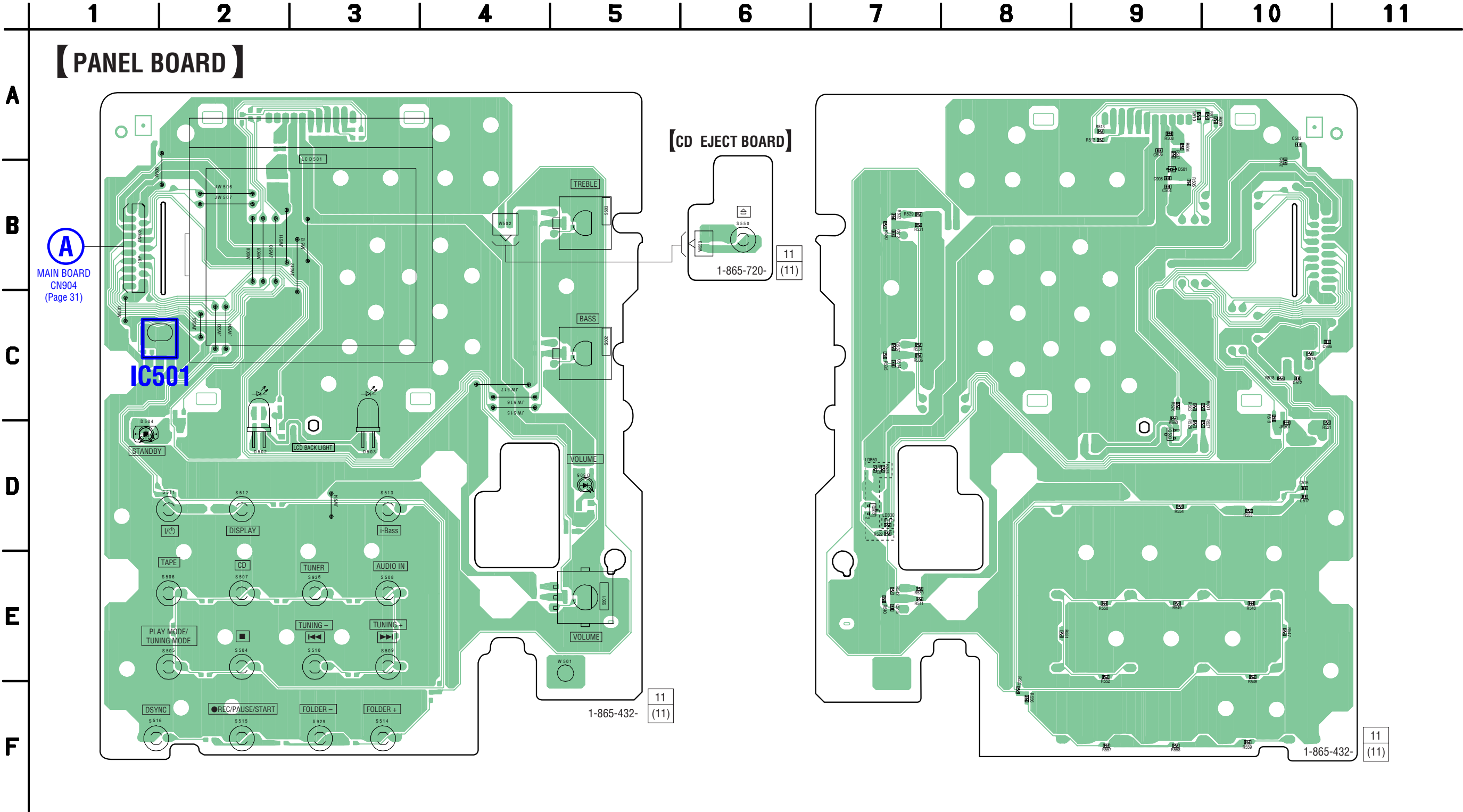
7-11. SCHEMATIC DIAGRAM — MAIN SECTION (3/5) —





7-13. SCHEMATIC DIAGRAM — MAIN SECTION (5/5) — • See page 42 for Waveforms. • See page 45 for IC Pin Function Description.

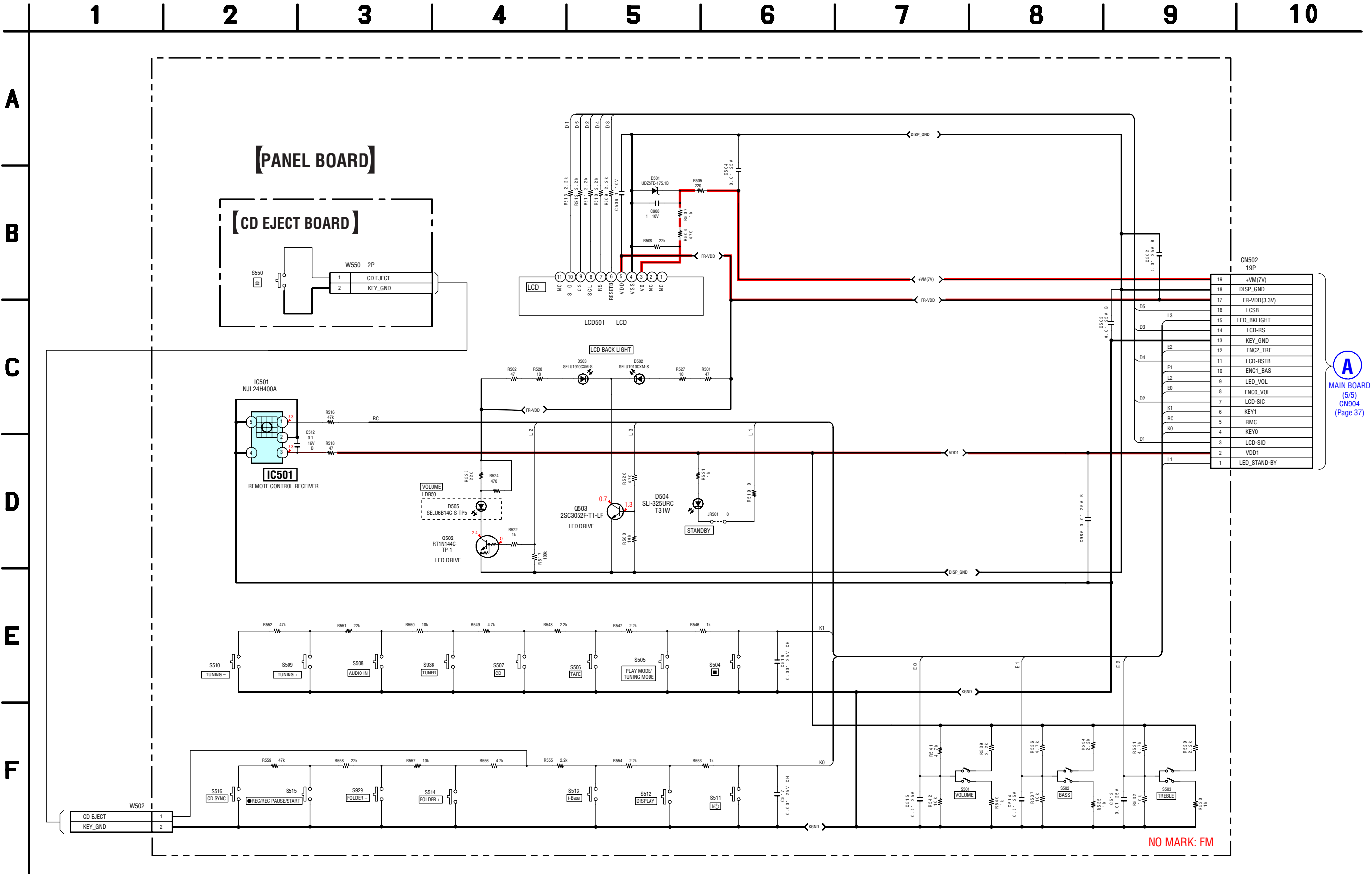




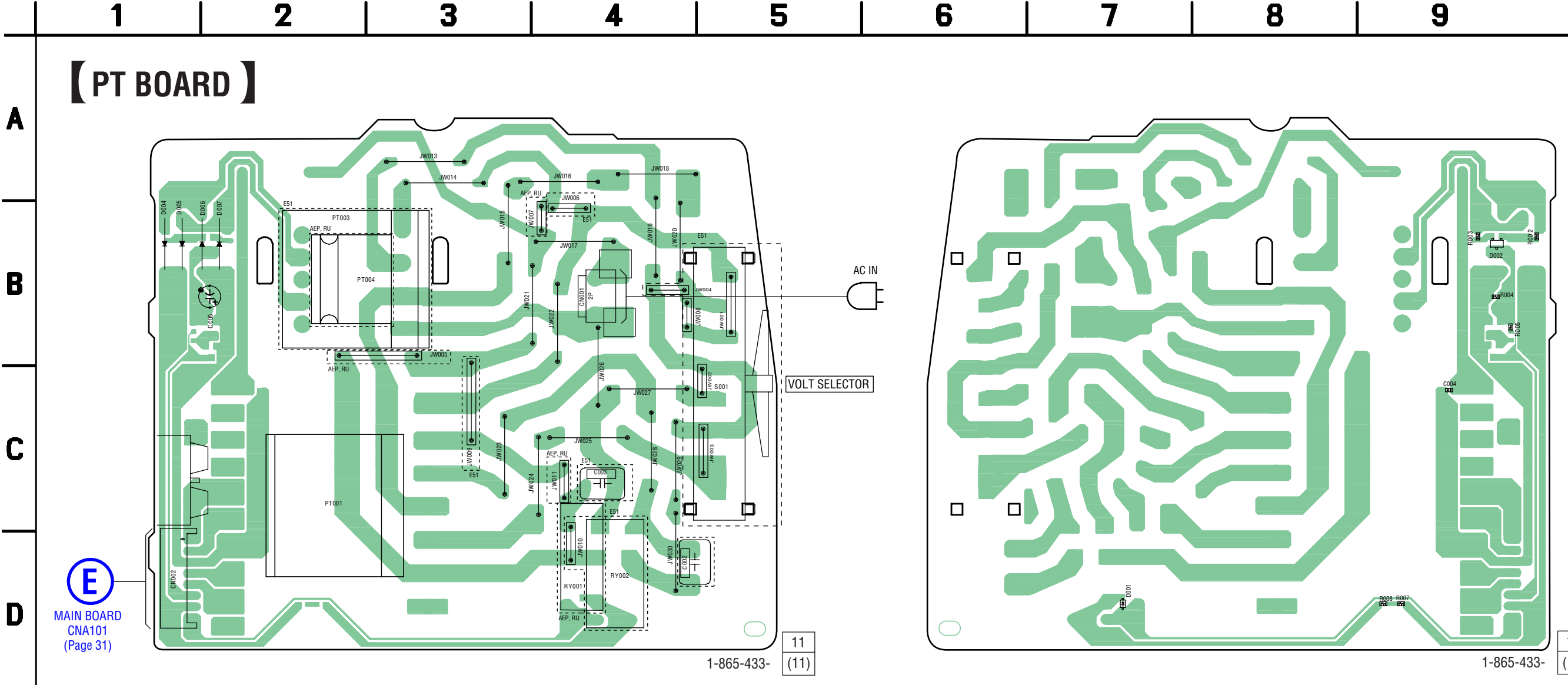
• Semiconductor Location

Ref. No.	Location
D501	B-9
D502	D-2
D503	D-3
D504	D-1
D505	D-5
IC501	C-2
Q502	D-7
Q503	D-9

7-15. SCHEMATIC DIAGRAM — PANEL BOARD —

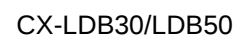


A
MAIN BOARD
(5/5)
CN904
(Page 37)



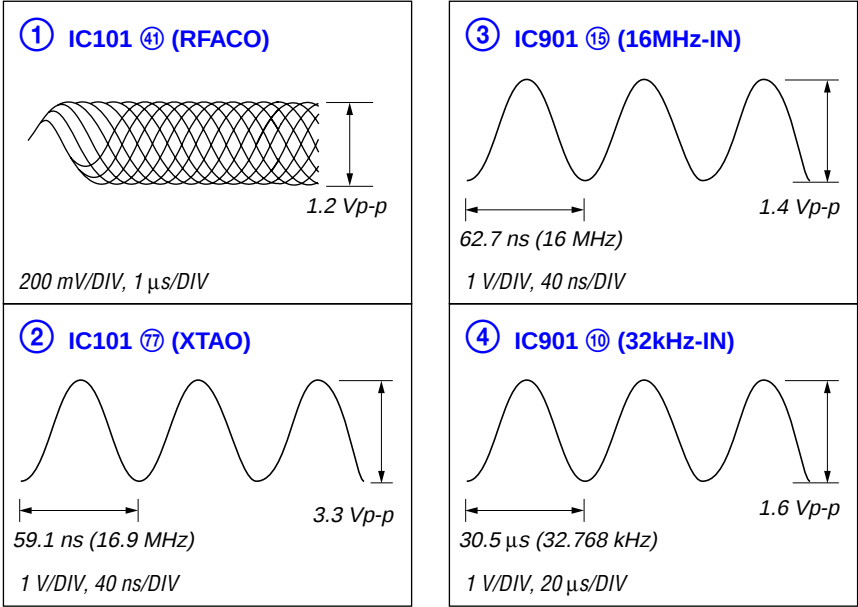
• Semiconductor Location

Ref. No.	Location
D001	D-7
D002	B-9
D004	B-1
D005	B-1
D006	B-1
D007	B-2

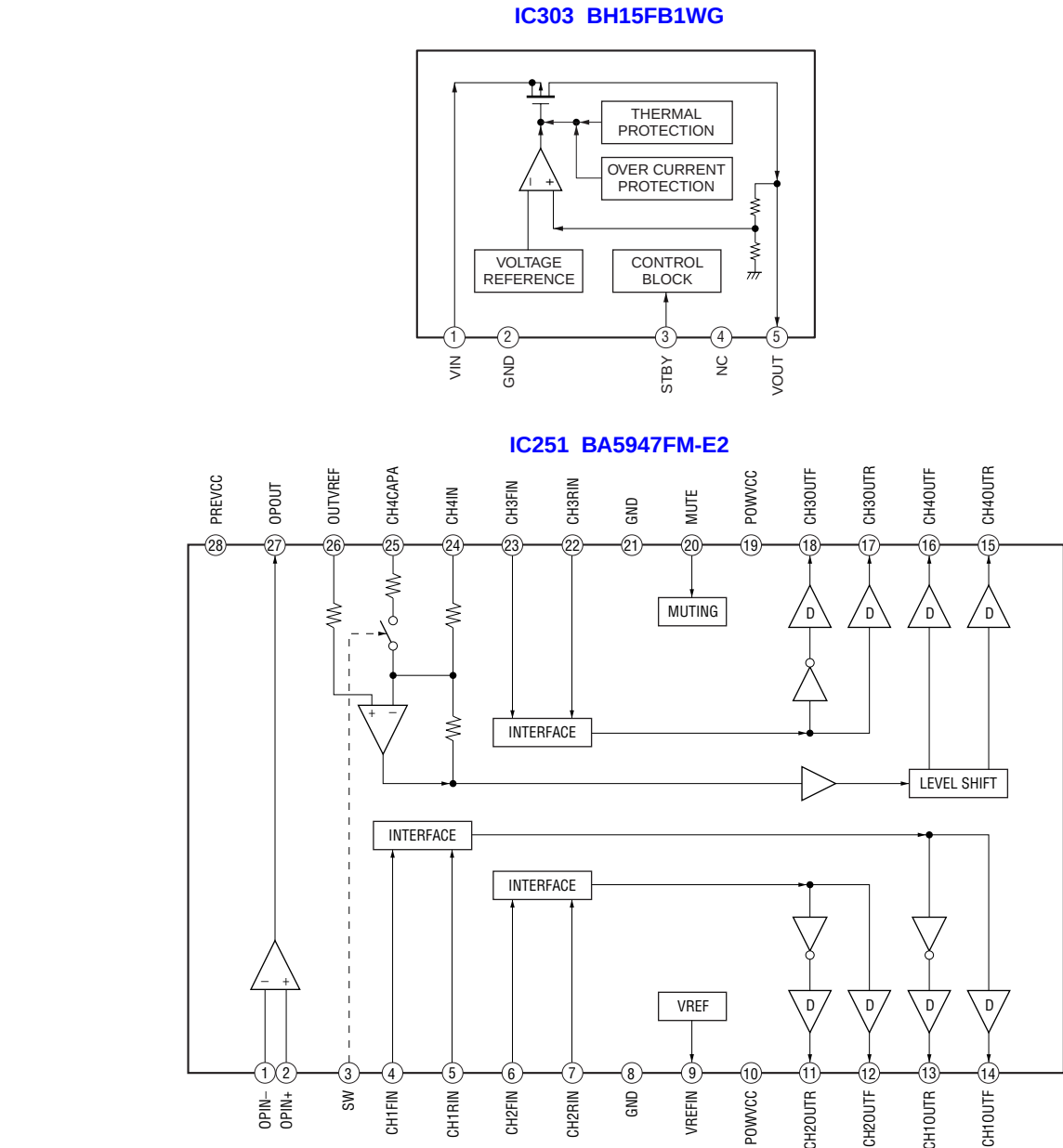


CX-LDB30/LDB50

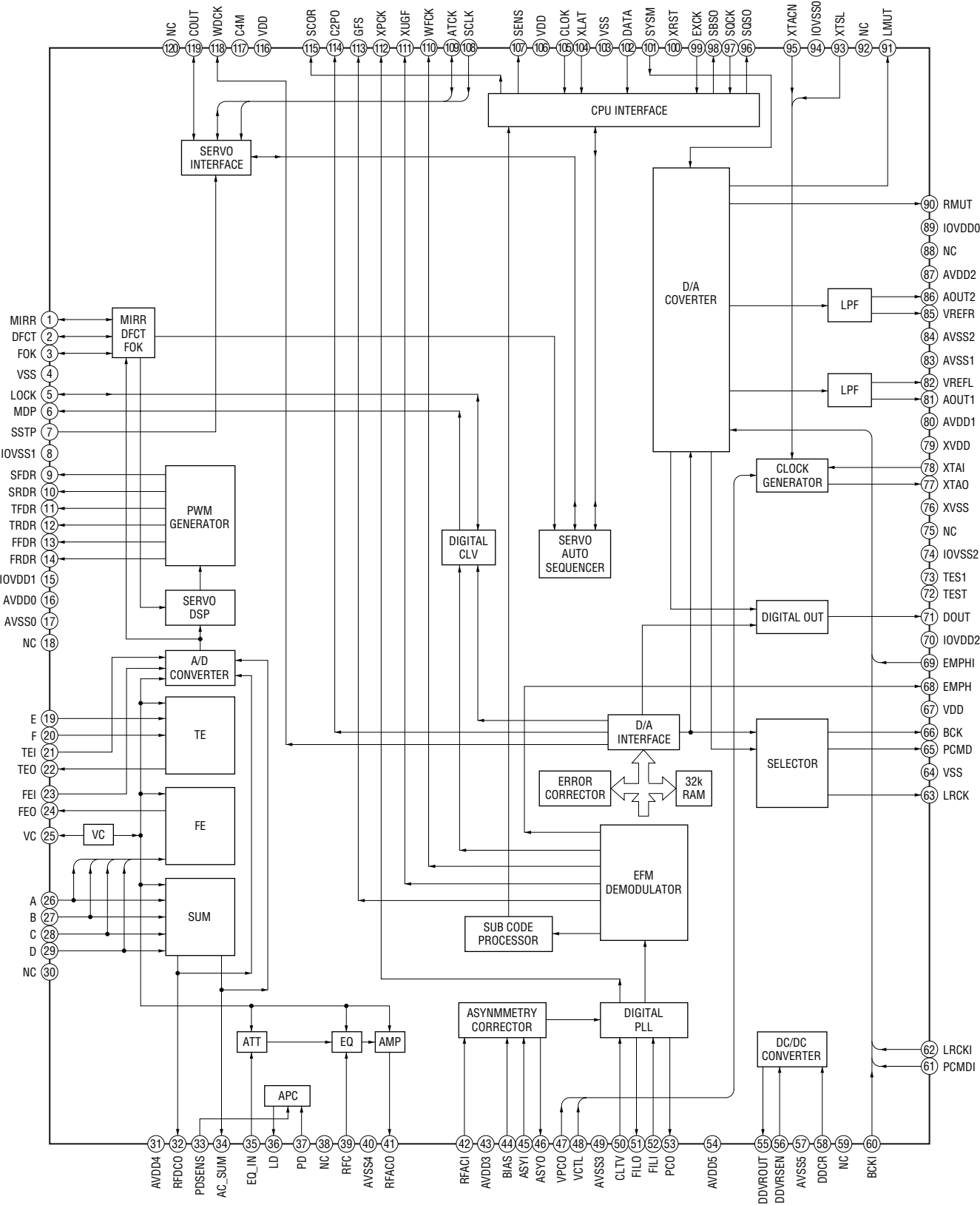
- Waveforms
- BD Board –



- IC Block Diagrams
- BD Board –



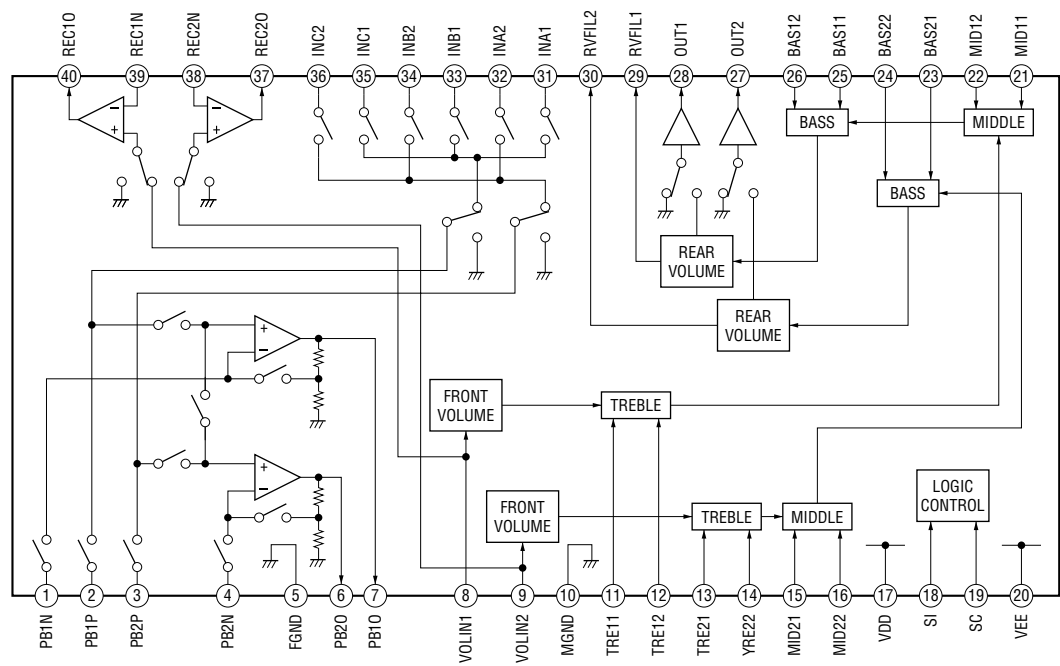
IC101 CXD3059AR





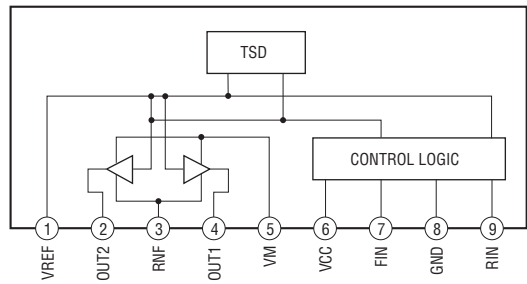
— MAIN Board —

IC601 BD3882FV



— DRIVER Board —

IC701 BA6956AN



• IC Pin Function Description

MAIN BOARD IC901 M30622MEP-A26FPU0 (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	O-LCDATA	O	LCD DATA
2	O-LCDSCK	O	Data output to the fluorescent indicator tube
3	O-VOLUMELED	O	LED (i-Bass/DEMO) control signal output
4	I-RMC	I	Remote control signal input from the remote sensor
5	O-MP3DATA	O	MP3 DATA OUT
6	I-MP3DATA	I	MP3 DATA IN
7	O-MP3CLK	O	Clock output to the CD unit
8	BYTE	I	Destination setting input terminal
9	CNVSS	I	Flash data signal input terminal
10	32KHz-IN	I	Oscillation circuit signal input for the real time clock
11	32KHz-OUT	I	Oscillation circuit signal output for the real time clock
12	I-RESET	—	Reset signal input
13	16MHz-OUT	—	Oscillation circuit signal output for the system main clock
14	VSS	—	Ground terminal
15	16MHz-IN	I	Oscillation circuit signal input for the system main clock
16	VCC	—	Power supply terminal (+3.3 V)
17	NMI	—	HIGH always
18	I-RDCLK	I	Clock signal input from the tuner
19	I-SCOR	I	Sub code sync signal input from the CD unit
20	AC-CUT	I	Power down detection signal input
21	NC	—	Not used
22	O-PLLCE	O	Latch signal output to the tuner
23	O-PLLDAT	O	Data output to the tuner
24	NC	—	Not used
25	I-PLLDAT/I-STEREO	I	Pll data or stereo tuner detection signal input terminal
26	I-TUNE	I	Tuner tuned status signal input from the tuner
27	O-PLLCLK	O	Clock output to the tuner
28	O-BKLIGHT	O	LED (BACK LIGHT) control signal output
29	O-SCL	O	12C clock signal output
30	O-SDA	O	12C data signal output
31	TXD	—	Flash link data output terminal
32	I-MP3ACK	I	Acknowledge signal input from the MP3 IC
33	I-MP3REQ	I	Request signal input from the MP3 IC
34	RTS	O	Flash RTS signal output terminal
35	O-DATA	O	Data output to the CD unit
36	O-XLT	O	Control data latch signal output to the CD unit
37	O-CLOCK	O	Clock output to the CD unit
38	O-POWER	O	Main power control signal output
39	I-PROTECT	I	Voltage detection signal input
40	O-LCDRESET	O	Clock signal output to the fluorescent indicator tube
41	I-HEADPHONE	I	Headphone signal input terminal
42	O-FRONTRELAY	O	Front relay on/off detection signal output
43	O-PB2	O	Playback selection signal output for the tape deck
44	O-BIAS	O	Bias control signal output to the tape deck
45	O-MP3RST	O	Reset signal output to the MP3 IC
46	O-LCDDCD	O	Latch signal output to the fluorescent indicator tube
47	I-MICS	O	Clock output to the MP3 IC
48	O-MILP	O	Latch pulse signal output to the MP3 IC
49	O-MP3STBY	O	Strobe signal output to the MP3 IC

Pin No.	Pin Name	I/O	Description
50	O-FUNCCLK	O	Clock output to the function IC (IC601)
51	I-PLAY SW	I	PLAY switch signal input from the tape deck
52	O-LCDCS	O	Chip select signal output to the fluorescent indicator tube
53	O-SOL	O	Solenoid control signal output to the tape deck
54	O-MOTOR	O	Motor control signal output to the tape deck
55	O-STKPOWER	I/O	STK POWER ON/OFF
56	I-SENS	I	SENS signal input from the CD unit
57	O-XTACN	O	Clock output from the CD unit
58	I-RSDATA	I	RDS data input from the tuner
59	I-AUDION	I	Audio signal detection input terminal
60	O-XRST	O	Reset signal output to the CD unit
61	A9	—	Not used
62	VCC	—	Power supply terminal
63	A8	—	Not used
64	VSS	—	Ground terminal
65	O-CDON	O	CD power supply control signal output
66	A6	—	Not used
67	A5	—	Not used
68	A4	—	Not used
69	A3	—	Not used
70	A2	—	Not used
71	A1	—	Not used
72	A0	—	Not used
73	D15/INT5	—	Not used
74	I-WAKEUPKEY	I	System wake up signal input terminal in the standby status
75	D13/INT3	—	Not used
76	D12	—	Not used
77	D11	—	Not used
78	D10	—	Not used
79	I-STEREO	O	STEREO indicate signal from the Tuner unit
80	O-TUMUTE	O	Mute signal output to the Tuner unit
81	D7	—	Not used
82	O-LDOUT	O	Loading motor control signal output
83	O-LDIN	O	Loading motor control signal output
84	I-CDMSW3	I	CDM trigger switch input
85	I-CDMSW1	I	CDM out switch input
86	I-CDMSW2	I	CDM chack switch input
87	D1	I	Not used
88	I-ENC0	I	VOL signal input from the rotary encoder
89	I-HALFSW	I	Cassette half or rec switch detectin signal input
90	I-ENC2	I	Treble signal input from the rotary encoder
91	I-ENC1	I	Bass signal input from the rotary encoder
92	I-MODEL	—	Not used
93	I-SUFFIX	I	Version setting input terminal
94	I-END SW	I	END switch signal input from the tape deck
95	I-KEY1	I	Key input 1
96	AVSS	—	Ground terminal
97	I-KEY0	I	Key input 0
98	VREF	—	Reference voltage
99	AVCC	—	Power supply terminal
100	O-STLED	O	Standby LED control signal output (“L” : active)

SECTION 8 EXPLODED VIEWS

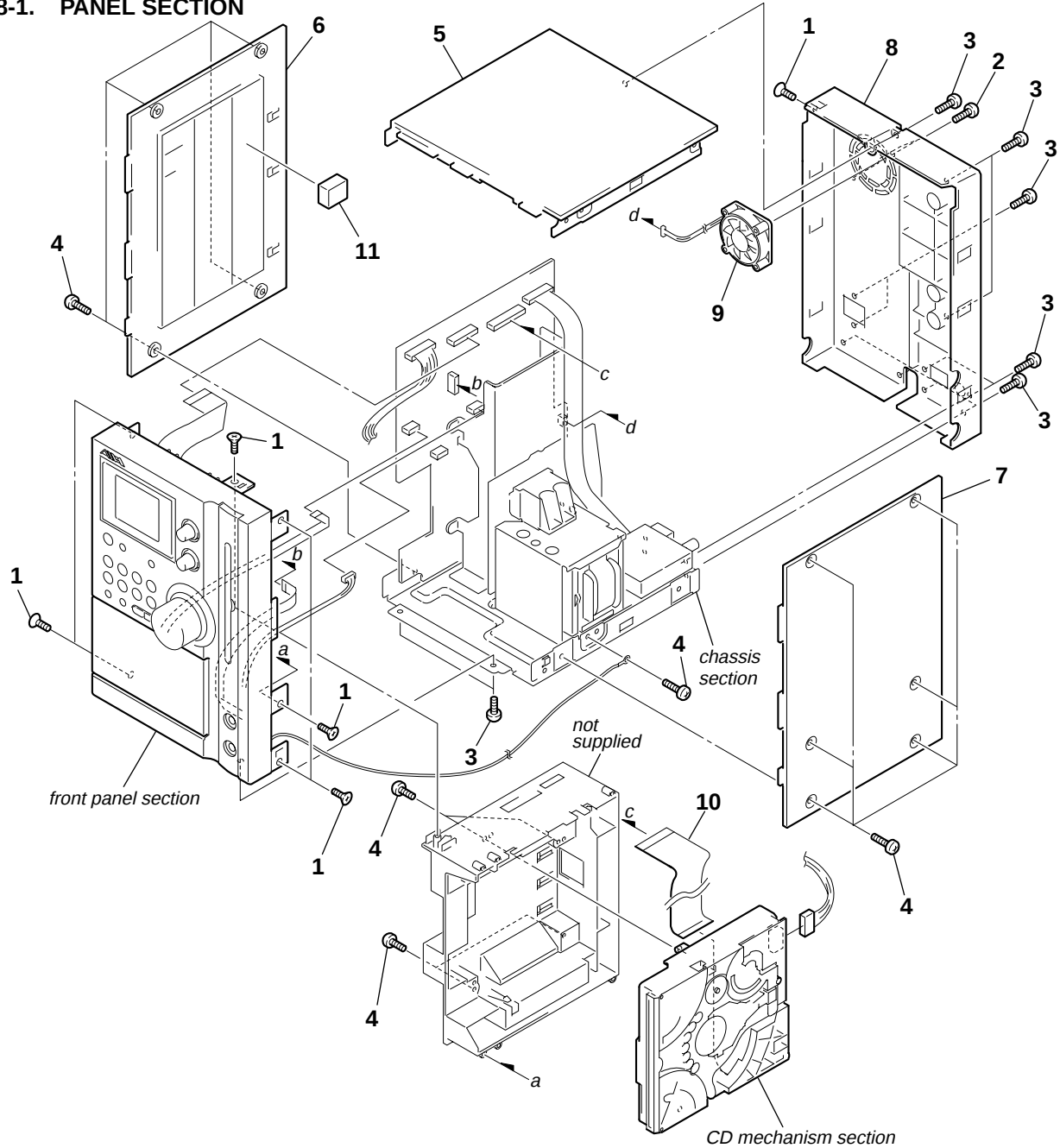
NOTE:

- XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- The mechanical parts with no reference number in the exploded views are not supplied.
- Abbreviation
E51 : Chilean and Peruvian model.
RU : Russian model.

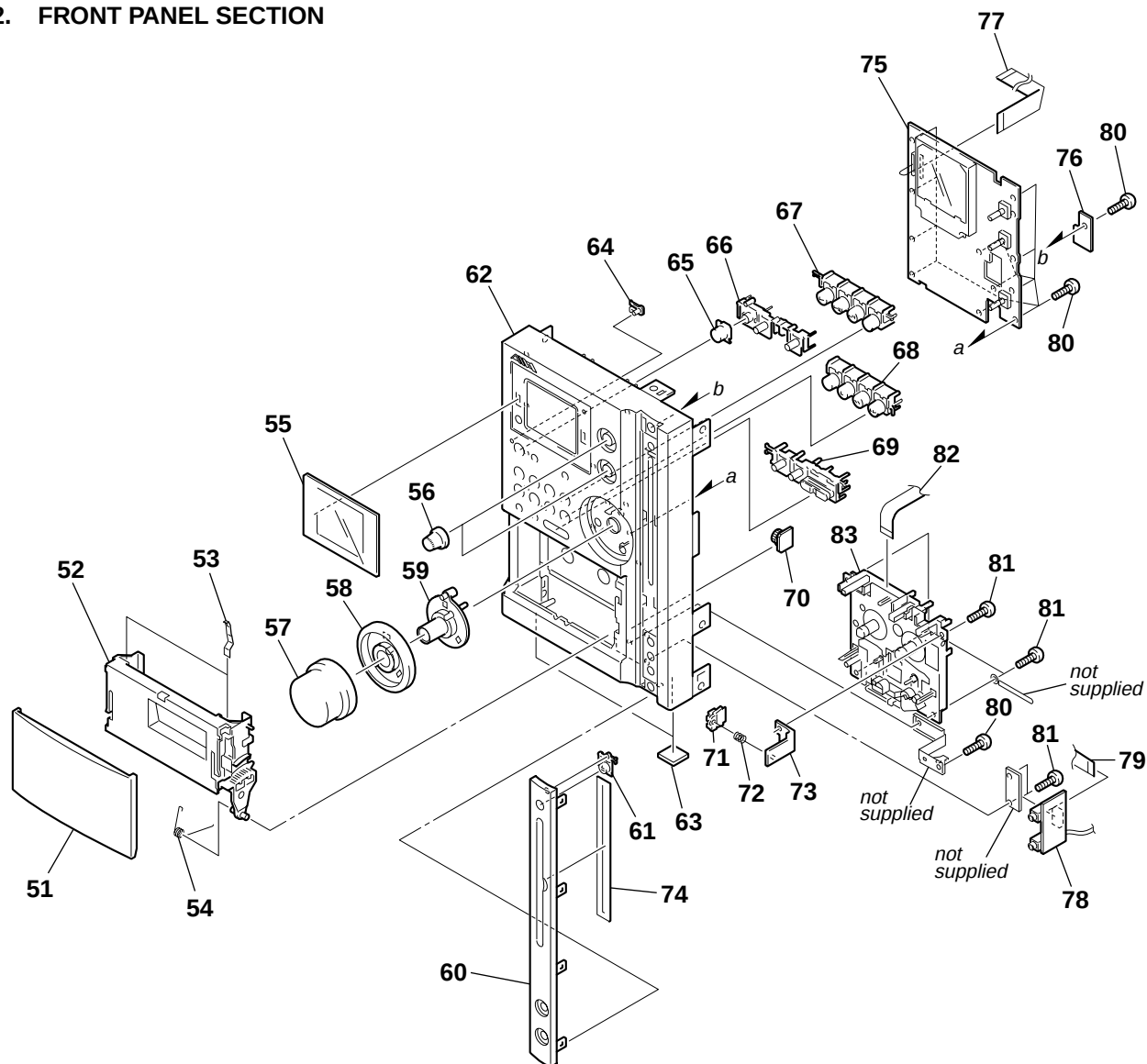
The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety. Replace only with part number specified.

8-1. PANEL SECTION



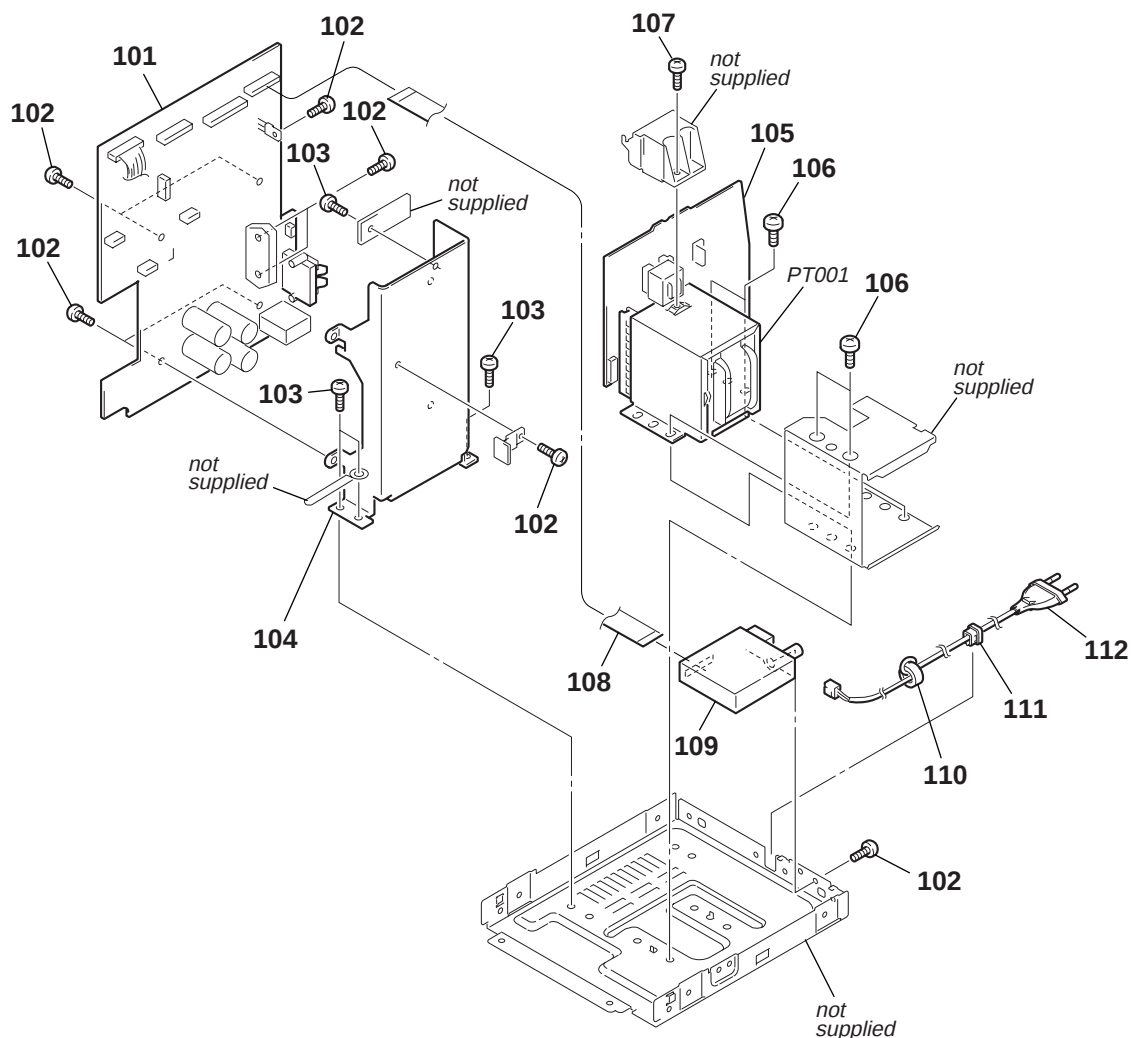
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	4-242-531-01	QT2+3-10 W/O SLOT		7	4-245-913-51	PANEL (R), SIDE (LDB50)	
2	3-254-146-01	SCREW (B3), (+) BV TAPPING		7	4-245-913-61	PANEL (R), SIDE (LDB30)	
3	3-254-143-11	SCREW (B3), (+) BV TAPPING		8	2-549-913-01	PANEL, BACK (AEP, UK, RU)	
4	3-254-143-01	SCREW (B3), (+) BV TAPPING		8	2-549-913-21	PANEL, BACK (E51)	
5	4-245-911-51	PANEL, TOP (LDB50)		9	1-763-697-21	DC FAN	
5	4-245-911-61	PANEL, TOP (LDB30)		10	1-828-403-11	WIRE (FLAT TYPE) (27 CORE)	
6	4-245-912-51	PANEL (L), SIDE (LDB50)		11	2-595-983-01	CUSHION (PAENL SIDE)	
6	4-245-912-61	PANEL (L), SIDE (LDB30)					

8-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	2-514-936-01	PANEL, CASSETTE (LDB50)		67	X-2025-175-1	KEY ASSY, FUNC (A)	
51	2-514-936-11	PANEL, CASSETTE (LDB30)		68	X-2025-176-1	KEY ASSY, FUNC (B)	
52	4-245-916-01	HOLDER, CASSETTE		69	2-514-946-01	KEY, REC	
53	4-246-745-01	CASSETTE, SPRING		70	4-242-171-01	DAMPER 150 N	
54	4-245-938-01	SPRING (CASS), TORSION		71	4-242-172-01	PLATE, LOCK	
55	2-514-938-01	WINDOW, DISP		72	4-242-173-01	SPR-C, LOCK	
56	2-514-944-01	KNOB, B/T		73	4-242-175-01	HLDR, LOCK 2	
57	4-253-199-01	KNOB (VOL)		74	4-253-764-01	COVER (CD)	
58	2-514-947-01	RING, VOL		75	A-1091-005-A	PANEL BOARD, COMPLETE (LDB50)	
59	2-514-959-01	HOLDER (VOL)		75	A-1097-409-A	PANEL BOARD, COMPLETE (LDB30)	
60	2-514-937-01	PANEL, CD		76	A-1095-285-A	CD EJECT BOARD, COMPLETE	
61	2-514-945-01	KEY, EJECT		77	1-828-360-11	WIRE (FLAT TYPE) (19 CORE)	
62	2-514-935-01	CABINET, FRONT (LDB50: AEP)		78	A-1091-007-A	JACK BOARD, COMPLETE	
62	2-514-935-11	CABINET, FRONT (LDB50: RU, E51)		79	1-828-958-11	WIRE (FLAT TYPE) (9 CORE)	
62	2-514-935-21	CABINET, FRONT (LDB30: AEP, UK)		80	3-254-151-01	SCREW (B2.6), (+) P TAPPING	
62	2-514-935-31	CABINET, FRONT (LDB30: RU, E51)		81	3-254-143-01	SCREW (B3), (+) BV TAPPING	
63	4-242-091-01	CUSHION		82	1-828-945-11	WIRE (FLAT TYPE) (7 CORE)	
64	2-514-942-01	INDICATOR, POWER		83	1-796-352-41	DECK, MECHANICAL	
65	2-548-151-01	CAP, POWER					
66	2-514-939-01	KEY, POWER					

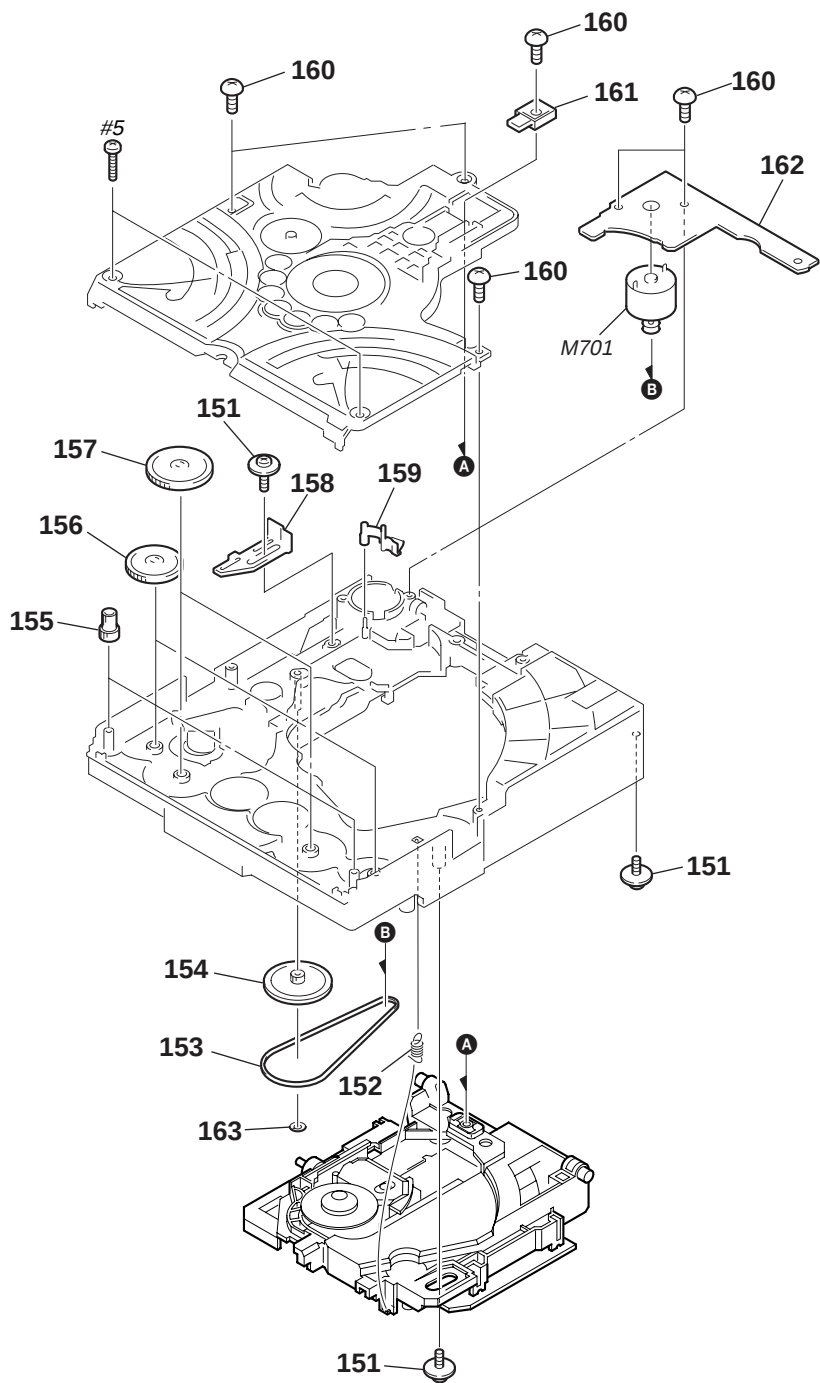
8-3. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	A-1091-001-A	MAIN BOARD, COMPLETE (LDB50: AEP)		108	1-828-987-11	WIRE (FLAT TYPE) (15 CORE) (AEP, UK)	
101	A-1091-956-A	MAIN BOARD, COMPLETE (LDB30: AEP, UK)		109	1-693-626-11	TUNER (FM/AM) (AEP, UK)	
101	A-1093-206-A	MAIN BOARD, COMPLETE (LDB50: E51)		109	1-693-628-21	TUNER (FM/AM) (E51)	
101	A-1093-223-A	MAIN BOARD, COMPLETE (LDB50: RU)		109	1-693-629-31	TUNER (FM/AM) (RU)	
101	A-1093-262-A	MAIN BOARD, COMPLETE (LDB30: E51)		110	1-400-285-11	F-BEAD, E2515MRT	
101	A-1093-269-A	MAIN BOARD, COMPLETE (LDB30: RU)		111	3-703-244-00	BUSHING (2104), CORD	
102	3-254-143-01	SCREW (B3), (+) BV TAPPING		△ 112	1-769-744-81	CORD, POWER (UK)	
103	3-077-331-01	+BV3 (3-CR)		△ 112	1-830-188-11	CORD, POWER (AEP, RU)	
104	2-549-915-01	HEAT SINK (MAIN)		△ PT001	1-443-216-11	TRANSFORMER, POWER (LDB50: AEP, RU)	
105	A-1091-003-A	PT BOARD, COMPLETE (AEP, UK, RU)		△ PT001	1-443-217-11	TRANSFORMER, POWER (LDB30: AEP, UK, RU)	
105	A-1093-208-A	PT BOARD, COMPLETE (E51)		△ PT001	1-443-218-11	TRANSFORMER, POWER (LDB50: E51)	
106	4-900-386-01	SCREW		△ PT001	1-443-220-11	TRANSFORMER, POWER (LDB30: E51)	
107	3-254-142-01	SCREW (B3), (+) BV TAPPING					
108	1-828-967-11	WIRE (FLAT TYPE) (11 CORE) (RU, E51)					

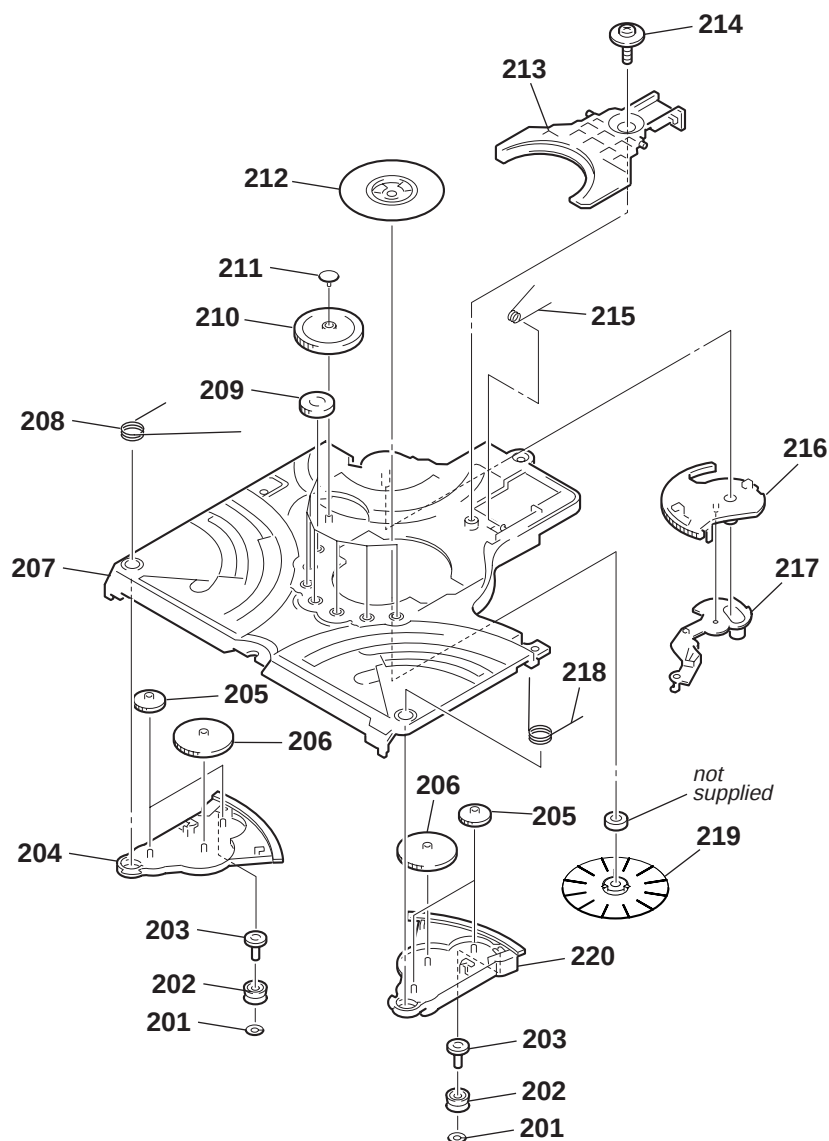
The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

8-4. CD MECHANISM DECK SECTION 1 (CDM80BV-F4BD81)



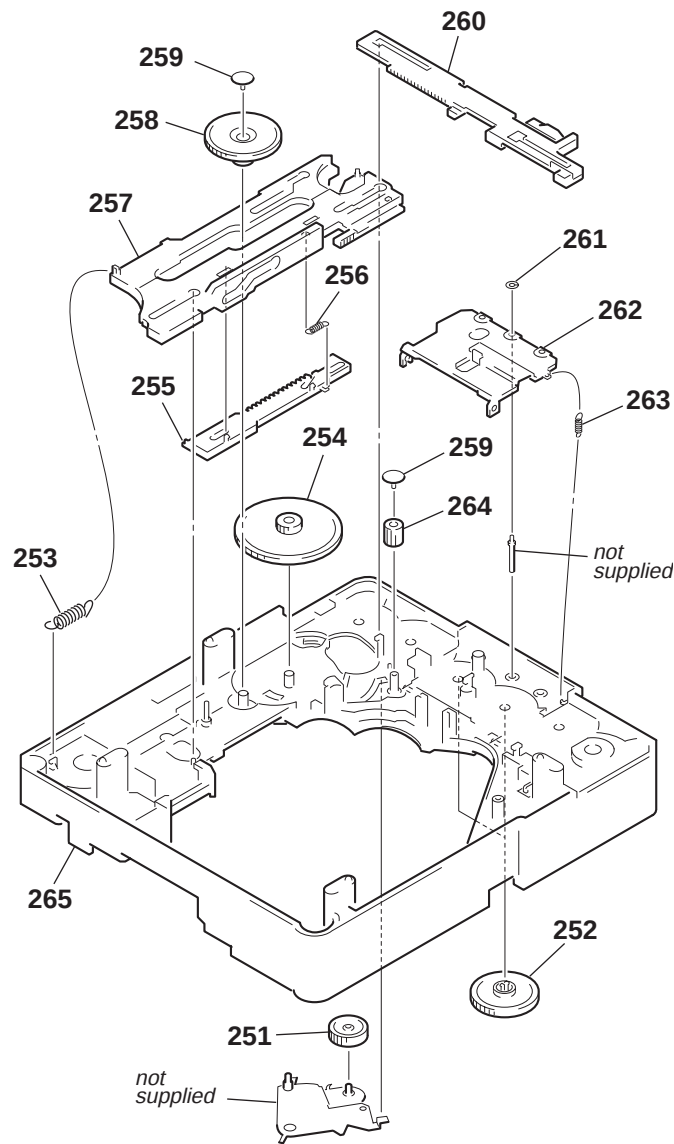
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	4-985-672-01	SCREW (+PTPWHM2.6), FLOATING		159	4-245-630-01	LEVER (SW)	
152	2-515-538-01	SPRING (HOLDER DOWN B), COIL		160	4-951-620-01	SCREW (2.6X8), +BVTP	
153	4-245-653-01	BELT (MOT)		161	4-245-639-01	LEVER (CL UP2)	
154	4-245-662-02	PULLEY (GEAR)		162	1-688-337-11	DRIVER BOARD	
155	4-245-646-01	GEAR (IDL-F)		163	7-623-921-01	RING, RETAINING, CAPSTAN	
156	4-245-644-01	GEAR (IDL-D)		M701	X-4955-496-1	MOTOR (PULLEY) ASSY (LOADING)	
157	4-245-645-01	GEAR (IDL-E)		#5	7-685-106-19	SCREW +P 2X10 TYPE2 NON-SLIT	
158	4-246-203-01	LEVER (RELEASE)					

8-5. CD MECHANISM DECK SECTION 2 (CDM80BV-F4BD81)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	4-245-627-01	WASHER (6-2.7-0.4)		211	4-245-640-01	GEAR (CAP)	
202	4-245-637-01	ROLLER, RUBBER		212	4-251-780-01	CAP (CLAMP 215V)	
203	4-245-649-01	GEAR (IDL-I)		213	4-245-638-01	LEVER (CL UP1)	
204	4-245-657-01	LEVER (LOADING-R)		214	4-985-672-01	SCREW (+PTPWHM2.6), FLOATING	
205	4-245-647-01	GEAR (IDL-G)		215	4-245-636-01	SPR-T (CL DOWN)	
206	4-245-648-01	GEAR (IDL-H)		216	4-245-658-01	LEVER (DISC STOP)	
207	4-245-655-01	CHASSIS (TOP)		217	4-245-659-01	LEVER (DISC SENSOR)	
208	2-103-179-01	SPRING (LOADING RV), TORSION		218	2-103-178-01	SPRING (LOADING LV), TORSION	
209	4-245-650-01	GEAR (IDL-J)		219	X-4956-149-1	CLAMPER (215V) ASSY	
210	4-245-651-01	GEAR (IDL-L)		220	4-245-656-01	LEVER (LOADING-L)	

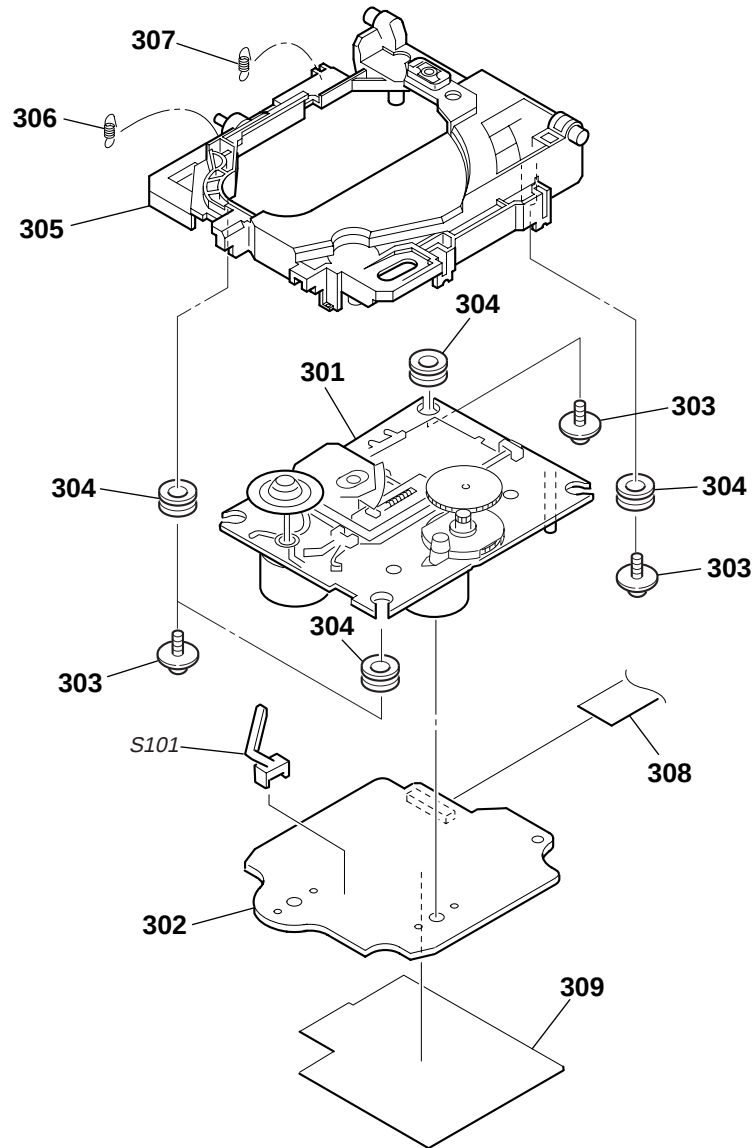
8-6. CD MECHANISM DECK SECTION 3 (CDM80BV-F4BD81)



Ref. No.	Part No.	Description	Remark
251	4-245-643-01	GEAR (IDL-C)	
252	4-245-644-01	GEAR (IDL-D)	
253	2-515-536-01	SPRING (DIR), TENSION COIL	
254	4-245-642-01	GEAR (IDL-B)	
255	4-245-814-01	LEVER (DIR FIRST)	
256	2-515-534-01	SPRING (DIR BACK), TENSION COIL	
257	4-245-660-01	LEVER (DIR)	
258	4-245-641-01	GEAR (IDL-A)	

Ref. No.	Part No.	Description	Remark
259	4-245-640-01	GEAR (CAP)	
260	4-245-628-01	LEVER (BU LOCK)	
261	4-248-206-01	WASHER (3-1-0.4)	
262	4-245-624-01	LEVER, CLOSE	
263	4-245-635-01	SPR-E (CLOSE LEVER)	
264	4-245-629-01	GEAR (BU LOCK)	
265	X-2021-531-1	CHASSIS (BOTTOM) ASSY	

8-7. BASE UNIT SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
△ 301	8-820-252-01	OPTICAL PICK-UP (KSM-215CFP) (including M101, M102)		306	4-216-085-01	SPRING (F-1), TENSION	
302	A-4751-434-A	BD BOARD, COMPLETE		307	4-216-086-01	SPRING (F-2), TENSION	
303	4-985-672-01	SCREW (+PTPWHM2.6), FLOATING		308	1-827-992-11	WIRE (FLAT TYPE) (16 CORE)	
304	4-992-054-11	RUBBER, VIBRATION PROOF		309	2-629-303-01	PLATE (SHIELD BD)	
305	X-4956-148-1	HOLDER (BU215V) ASSY		S101	1-771-853-11	SWITCH, DETECTION (LIMIT)	

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

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.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS
uF: μ F

- COILS
uH: μ H
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable
- Abbreviation
E51 : Chilean and Peruvian model.
RU : Russian model.

• SEMICONDUCTORS

In each case, u: μ , for example:
uA. . . : μ A. . . , uPA. . . , μ PA. . . ,
uPB. . . : μ PB. . . , uPC. . . , μ PC. . . ,
uPD. . . : μ PD. . .

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

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	A-4751-434-A	BD 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	1-770-425-11	CONNECTOR, FFC/FPC 16P	
C183	1-124-778-00	ELECT CHIP 22uF	20% 6.3V	CN201	1-818-350-11	CONNECTOR (FFC) 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	

BD	CD EJECT	DRIVER	JACK
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Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark			
< TRANSISTOR >						R410	1-216-809-11	METAL CHIP	100	5%	1/10W	
Q10	6-551-120-01	TRANSISTOR	2SA2119K			R411	1-216-809-11	METAL CHIP	100	5%	1/10W	
						< VIBRATOR >						
						< RESISTOR >						
R10	1-216-791-11	METAL CHIP	3.3	5%	1/10W	X171	1-767-408-21	VIBRATOR, CRYSTAL 16.934MHz				
R11	1-216-864-11	SHORT CHIP	0					*****				
R12	1-216-845-11	METAL CHIP	100K	5%	1/10W			A-1095-285-A CD EJECT BOARD, COMPLETE				
R13	1-218-446-11	METAL CHIP	1	5%	1/10W			*****				
R111	1-216-821-11	METAL CHIP	1K	5%	1/10W			< SWITCH >				
R112	1-216-835-11	METAL CHIP	15K	5%	1/10W	S550	1-762-875-21	SWITCH, KEYBOARD (▲)				
R113	1-216-821-11	METAL CHIP	1K	5%	1/10W	*****						
R114	1-216-835-11	METAL CHIP	15K	5%	1/10W	1-688-337-11	DRIVER BOARD					
R121	1-216-835-11	METAL CHIP	15K	5%	1/10W		*****					
R131	1-216-857-11	METAL CHIP	1M	5%	1/10W		< CAPACITOR >					
R132	1-216-833-11	METAL CHIP	10K	5%	1/10W		C705	1-162-306-11	CERAMIC	0.01uF	30%	16V
R133	1-216-848-11	METAL CHIP	180K	5%	1/10W		C711	1-126-964-11	ELECT	10uF	20%	50V
R141	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	< CONNECTOR >						
R142	1-216-821-11	METAL CHIP	1K	5%	1/10W	CN701	1-785-333-11	PIN, CONNECTOR (LIGHT ANGLE) 7P				
R143	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	< DIODE >						
R151	1-216-864-11	SHORT CHIP	0			D701	8-719-921-40	DIODE MTZJ-T-77-4.7C				
R161	1-216-809-11	METAL CHIP	100	5%	1/10W	< IC >						
R162	1-216-841-11	METAL CHIP	47K	5%	1/10W	IC701	8-759-598-69	IC BA6956AN				
R163	1-216-809-11	METAL CHIP	100	5%	1/10W	< RESISTOR >						
R165	1-216-864-11	SHORT CHIP	0			R701	1-249-415-11	CARBON	680	5%	1/4W	
R171	1-216-817-11	METAL CHIP	470	5%	1/10W	R702	1-247-807-31	CARBON	100	5%	1/4W	
R172	1-216-857-11	METAL CHIP	1M	5%	1/10W	< SWITCH >						
R173	1-216-295-91	SHORT CHIP	0			S701	1-762-951-21	SWITCH, PUSH (DISC IN/OUT)				
R181	1-216-809-11	METAL CHIP	100	5%	1/10W	S702	1-762-951-21	SWITCH, PUSH (CHUKING)				
R182	1-216-809-11	METAL CHIP	100	5%	1/10W	S703	1-762-951-21	SWITCH, PUSH (TRIGGER)				
R191	1-216-864-11	SHORT CHIP	0			*****						
R201	1-500-445-21	FERRITE, EMI (SMD)(2012)				A-1091-007-A	JACK BOARD, COMPLETE					
R203	1-216-864-11	SHORT CHIP	0			*****						
R204	1-500-445-21	FERRITE, EMI (SMD)(2012)				< CAPACITOR >						
R205	1-216-864-11	SHORT CHIP	0			C291	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
R251	1-216-833-11	METAL CHIP	10K	5%	1/10W	C292	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
R252	1-216-837-11	METAL CHIP	22K	5%	1/10W	C293	1-126-960-11	ELECT	1uF	20%	50V	
R253	1-216-833-11	METAL CHIP	10K	5%	1/10W	C294	1-126-960-11	ELECT	1uF	20%	50V	
R301	1-216-845-11	METAL CHIP	100K	5%	1/10W	C295	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
R302	1-216-833-11	METAL CHIP	10K	5%	1/10W	C299	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
R303	1-216-845-11	METAL CHIP	100K	5%	1/10W	< CONNECTOR >						
R305	1-216-845-11	METAL CHIP	100K	5%	1/10W	CN203	1-568-828-11	CONNECTOR, FFC 9P				
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							

CX-LDB30/LDB50

Ver. 1.1

JACK MAIN

Ref. No.	Part No.	Description	Remark			
< JACK >						
J291	1-815-629-11	JACK (AUDIO IN)				
J292	1-815-629-11	JACK (PHONES)				
< RESISTOR >						
R191	1-215-867-00	METAL OXIDE	470	5%	1W	
R285	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R286	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R289	1-216-809-11	METAL CHIP	100	5%	1/10W	
R290	1-216-809-11	METAL CHIP	100	5%	1/10W	
R292	1-215-867-00	METAL OXIDE	470	5%	1W	
R293	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R294	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R295	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R296	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	

A-1091-001-A		MAIN BOARD, COMPLETE (LDB50: AEP)				
A-1091-956-A		MAIN BOARD, COMPLETE (LDB30: AEP, UK)				
A-1093-206-A		MAIN BOARD, COMPLETE (LDB50: E51)				
A-1093-223-A		MAIN BOARD, COMPLETE (LDB50: RU)				
A-1093-262-A		MAIN BOARD, COMPLETE (LDB30: E51)				
A-1093-269-A		MAIN BOARD, COMPLETE (LDB30: RU)				

4-253-763-01		SHEET (LCD)				
< CAPACITOR >						
C101	1-128-550-11	ELECT	2200uF	20%	50V	(LDB30)
C101	1-135-632-61	ELECT	2200uF	20%	63V	(LDB50)
C102	1-128-550-11	ELECT	2200uF	20%	50V	(LDB30)
C102	1-135-632-61	ELECT	2200uF	20%	63V	(LDB50)
C103	1-128-548-11	ELECT	4700uF	20%	25V	
C104	1-128-548-11	ELECT	4700uF	20%	25V	
C105	1-127-888-51	CERAMIC	0.1uF	10%	50V	
C106	1-127-888-51	CERAMIC	0.1uF	10%	50V	
C107	1-127-888-51	CERAMIC	0.1uF	10%	50V	
C108	1-127-888-51	CERAMIC	0.1uF	10%	50V	
C109	1-127-888-51	CERAMIC	0.1uF	10%	50V	
C110	1-127-888-51	CERAMIC	0.1uF	10%	50V	
C114	1-126-941-11	ELECT	470uF	20%	25V	
C115	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C116	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C117	1-104-665-11	ELECT	100uF	20%	25V	
C118	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C119	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C120	1-126-933-11	ELECT	100uF	20%	16V	
C121	1-126-933-11	ELECT	100uF	20%	16V	
C122	1-126-964-11	ELECT	10uF	20%	50V	
C123	1-126-933-11	ELECT	100uF	20%	16V	
C124	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C125	1-126-933-11	ELECT	100uF	20%	16V	
C126	1-126-947-11	ELECT	47uF	20%	25V	
C128	1-126-963-11	ELECT	4.7uF	20%	50V	
C129	1-126-961-11	ELECT	2.2uF	20%	50V	

Ref. No.	Part No.	Description	Remark			
C130	1-126-947-11	ELECT	47uF	20%	25V	
C131	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C132	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C133	1-126-963-11	ELECT	4.7uF	20%	50V	
C135	1-126-947-11	ELECT	47uF	20%	25V	
C201	1-126-967-11	ELECT	47uF	20%	50V	(LDB30)
C201	1-128-552-51	ELECT	47uF	20%	63V	(LDB50)
C202	1-126-967-11	ELECT	47uF	20%	50V	(LDB30)
C202	1-128-552-51	ELECT	47uF	20%	63V	(LDB50)
C203	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C229	1-162-974-11	CERAMIC CHIP	0.01uF		50V	
C230	1-162-974-11	CERAMIC CHIP	0.01uF		50V	
C231	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C301	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	
C302	1-130-483-00	MYLAR	0.01uF	5%	50V	
C303	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C304	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C307	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	
C308	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	
C309	1-130-483-00	MYLAR	0.01uF	5%	50V	
C310	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C311	1-130-475-00	MYLAR	0.0022uF	5%	50V	
C312	1-130-471-00	MYLAR	0.001uF	5%	50V	
C313	1-130-487-00	MYLAR	0.022uF	5%	50V	
C314	1-130-483-00	MYLAR	0.01uF	5%	50V	
C315	1-126-947-11	ELECT	47uF	20%	10V	
C317	1-126-964-11	ELECT	10uF	20%	50V	
C318	1-216-864-11	SHORT CHIP	0			
C319	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	
C320	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	
C321	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	
C322	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	
C323	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	
C324	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C325	1-126-934-11	ELECT	220uF	20%	16V	
C363	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C364	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	
C403	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	
C404	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	
C405	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	
C406	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	
C407	1-126-963-11	ELECT	4.7uF	20%	50V	
C408	1-126-963-11	ELECT	4.7uF	20%	50V	
C409	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C410	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C411	1-126-963-11	ELECT	4.7uF	20%	50V	
C412	1-126-963-11	ELECT	4.7uF	20%	50V	
C413	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	
C414	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	
C415	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	
C416	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	
C417	1-127-888-51	CERAMIC	0.1uF	10%	50V	
C418	1-127-888-51	CERAMIC	0.1uF	10%	50V	
C421	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C422	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C670	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C423	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C671	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C424	1-126-968-11	ELECT	100uF	20%	50V	C672	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
					(LDB30)	C673	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C424	1-128-576-11	ELECT	100uF	20%	63V	C674	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
					(LDB50)						
C425	1-126-971-11	ELECT	470uF	20%	50V	C675	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
					(LDB30)	C676	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C425	1-128-555-91	ELECT	470uF	20%	63V	C677	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
					(LDB50)	C689	1-126-960-11	ELECT	1uF	20%	50V
C426	1-104-662-91	ELECT	22uF	20%	25V	C690	1-126-960-11	ELECT	1uF	20%	50V
C601	1-126-934-11	ELECT	220uF	20%	16V						
C602	1-126-923-91	ELECT	220uF	20%	10V	C701	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
						C867	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
											(AEP, UK)
C603	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C868	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C604	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C882	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C605	1-126-933-11	ELECT	100uF	20%	16V	C883	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C606	1-126-933-11	ELECT	100uF	20%	16V						
C607	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	C903	1-126-964-11	ELECT	10uF	20%	50V
						C905	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C608	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	C906	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C609	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	C909	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C610	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	C910	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C611	1-164-315-11	CERAMIC CHIP	470PF	5%	50V						
C612	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	C911	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
						C912	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C613	1-126-963-11	ELECT	4.7uF	20%	50V	C913	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C614	1-126-963-11	ELECT	4.7uF	20%	50V	C914	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C615	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C915	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C616	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V						
C617	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V	C916	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
						C917	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C618	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V	C918	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C619	1-216-833-11	METAL CHIP	10K	5%	1/10W	C919	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C620	1-216-833-11	METAL CHIP	10K	5%	1/10W	C920	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C621	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V						
C622	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V	C921	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
						C922	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C623	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V	C923	1-216-864-11	SHORT CHIP	0		
C624	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V	C924	1-126-925-91	ELECT	470uF	20%	10V
C625	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C926	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C626	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V						
C627	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C927	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
						C928	1-126-964-11	ELECT	10uF	20%	50V
C628	1-126-933-11	ELECT	100uF	20%	16V	C929	1-216-864-11	SHORT CHIP	0		
C629	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	C930	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C630	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	C931	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C631	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V						
C632	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	C933	1-104-662-91	ELECT	22uF	20%	25V
						C936	1-126-933-11	ELECT	100uF	20%	16V
C634	1-216-864-11	SHORT CHIP	0			C937	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C635	1-216-864-11	SHORT CHIP	0			C938	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C636	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C941	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C637	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V						
C638	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	C942	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
						C943	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C639	1-126-947-11	ELECT	47uF	20%	25V	C950	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C640	1-126-947-11	ELECT	47uF	20%	25V	C953	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C643	1-164-816-11	CERAMIC CHIP	220PF	2%	50V						
C644	1-164-816-11	CERAMIC CHIP	220PF	2%	50V						
C648	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V						
											< CONNECTOR >
C649	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	CN201	1-568-828-11	CONNECTOR, FFC 9P			
C650	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	CN291	1-564-506-11	PLUG, CONNECTOR 3P			
C652	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	* CN302	1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P			
C655	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	CN602	1-568-830-11	CONNECTOR, FFC 11P (RU, E51)			
C656	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	CN602	1-784-776-11	CONNECTOR, FFC 15P (AEP, UK)			
						CN902	1-779-295-11	CONNECTOR, FFC (LIF (NON-ZIF)) 27P			

CX-LDB30/LDB50

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
CN904	1-779-287-11	CONNECTOR, FFC (LIF (NON-ZIF)) 19P				< IC >	
CN905	1-568-826-11	CONNECTOR, FFC 7P					
		< DIODE >					
D101	6-500-340-01	DIODE G5SBA60L-6088 (LDB50)		IC101	8-759-231-58	IC TA7812S	
D101	6-500-397-11	DIODE GBJ4J10B9 (LDB30)		IC102	8-759-071-48	IC TA7807S	
D102	6-500-397-11	DIODE GBJ4J10B9		IC401	6-705-845-01	IC STK403-090 (LDB30)	
D105	6-500-697-01	DIODE UDZSTE-173.3B		IC401	6-705-853-01	IC STK403-120 (LDB50)	
D107	6-500-848-01	DIODE MC2840-T112-1		IC601	6-702-800-01	IC BD3882FV	
D108	8-719-988-61	DIODE 1SS355TE-17					
D110	6-500-335-01	DIODE MC2838-T112-1				< JACK >	
D111	6-500-335-01	DIODE MC2838-T112-1					
D112	6-500-334-01	DIODE MC2836		J201	1-694-675-21	TERMINAL BOARD (4P)(SPEAKER)	
D113	6-500-334-01	DIODE MC2836				< SHORT >	
D114	6-500-335-01	DIODE MC2838-T112-1		JR101	1-216-864-11	SHORT CHIP 0	
D115	6-500-334-01	DIODE MC2836		JR102	1-216-864-11	SHORT CHIP 0	
D116	8-719-083-82	DIODE UDZS-TE17-12B (E51)		JR103	1-216-864-11	SHORT CHIP 0	
D117	8-719-988-61	DIODE 1SS355TE-17		JR104	1-216-864-11	SHORT CHIP 0	
D118	6-500-335-01	DIODE MC2838-T112-1		JR301	1-216-864-11	SHORT CHIP 0	
D120	8-719-063-79	DIODE 1N4002B		JR601	1-216-864-11	SHORT CHIP 0	
D121	8-719-063-79	DIODE 1N4002B		JR602	1-216-864-11	SHORT CHIP 0	
D122	8-719-063-79	DIODE 1N4002B		JR603	1-216-864-11	SHORT CHIP 0	
D123	8-719-988-61	DIODE 1SS355TE-17		JR604	1-216-864-11	SHORT CHIP 0	
D201	8-719-059-21	DIODE RK46LF-T2 (LDB50)		JR605	1-216-864-11	SHORT CHIP 0	
D202	8-719-059-21	DIODE RK46LF-T2 (LDB50)		JR606	1-216-864-11	SHORT CHIP 0	
D203	8-719-988-61	DIODE 1SS355TE-17		JR607	1-216-864-11	SHORT CHIP 0	
D204	8-719-988-61	DIODE 1SS355TE-17		JR801	1-216-864-11	SHORT CHIP 0	
D205	6-500-335-01	DIODE MC2838-T112-1		JR802	1-216-864-11	SHORT CHIP 0	
D206	6-500-334-01	DIODE MC2836		JR901	1-216-864-11	SHORT CHIP 0	
D207	8-719-988-61	DIODE 1SS355TE-17		JR902	1-216-864-11	SHORT CHIP 0	
D209	8-719-988-61	DIODE 1SS355TE-17		JR903	1-216-864-11	SHORT CHIP 0	
D210	8-719-988-61	DIODE 1SS355TE-17		JR905	1-216-864-11	SHORT CHIP 0	
D211	8-719-080-53	DIODE RK36LF-B3 (LDB30)				< COIL >	
D212	8-719-080-53	DIODE RK36LF-B3 (LDB30)					
D301	6-500-334-01	DIODE MC2836		L201	1-456-107-11	COIL, AIR-CORE	
D302	7-611-032-61	WIRE, TINNING COPPER		L202	1-456-107-11	COIL, AIR-CORE	
D303	8-719-988-61	DIODE 1SS355TE-17		L301	1-433-372-31	TRANSFORMER, BIAS OSCILLATION	
D304	6-500-848-01	DIODE MC2840-T112-1				< TRANSISTOR >	
D401	8-719-988-61	DIODE 1SS355TE-17					
D402	8-719-988-61	DIODE 1SS355TE-17		Q101	8-729-120-28	TRANSISTOR 2SC3052F-T1-LF	
D403	8-719-988-61	DIODE 1SS355TE-17		Q102	8-729-209-60	TRANSISTOR 2SB1375	
D405	8-719-063-79	DIODE 1N4002B		Q103	8-729-120-28	TRANSISTOR 2SC3052F-T1-LF	
D601	8-719-083-60	DIODE UDZSTE-174.7B		Q104	8-729-040-76	TRANSISTOR KTA1273-Y-AT	
D602	8-719-083-60	DIODE UDZSTE-174.7B		Q105	8-729-027-46	TRANSISTOR RT1N144C-TP-1	
D901	8-719-988-61	DIODE 1SS355TE-17		Q106	8-729-036-89	TRANSISTOR KTC3198GR-A	
D904	8-719-988-61	DIODE 1SS355TE-17		Q108	8-729-120-28	TRANSISTOR 2SC3052F-T1-LF	
D905	6-500-334-01	DIODE MC2836		Q109	8-729-120-28	TRANSISTOR 2SC3052F-T1-LF	
D907	8-719-988-61	DIODE 1SS355TE-17		Q110	8-729-600-22	TRANSISTOR 2SA1235TP-1EF	
D908	8-719-988-61	DIODE 1SS355TE-17		Q111	8-729-027-23	TRANSISTOR RT1P141C-TP-1	
D911	8-719-977-28	DIODE UDZSTE-1710B		Q112	8-729-120-28	TRANSISTOR 2SC3052F-T1-LF	
		< EARTH TERMINAL >		Q113	8-729-120-28	TRANSISTOR 2SC3052F-T1-LF	
* EP101	1-537-738-21	TERMINAL, EARTH		Q114	8-729-120-28	TRANSISTOR 2SC3052F-T1-LF	
* EP401	1-537-738-21	TERMINAL, EARTH		Q115	8-729-036-89	TRANSISTOR KTC3198GR-A	
* EP601	1-537-738-21	TERMINAL, EARTH		Q201	6-550-843-01	TRANSISTOR 2SJ599-Z-E2-AZ	
				Q202	6-550-842-01	TRANSISTOR 2SK3377-Z-E2-AZ	
				Q203	8-729-120-28	TRANSISTOR 2SC3052F-T1-LF	
				Q204	8-729-600-22	TRANSISTOR 2SA1235TP-1EF	

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
Q205	8-729-600-22	TRANSISTOR	2SA1235TP-1EF			R133	1-216-841-11	METAL CHIP	47K	5%	1/10W
Q206	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF			R134	1-216-841-11	METAL CHIP	47K	5%	1/10W
Q207	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF			R135	1-216-821-11	METAL CHIP	1K	5%	1/10W
Q208	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF			R137	1-216-841-11	METAL CHIP	47K	5%	1/10W
Q305	8-729-600-22	TRANSISTOR	2SA1235TP-1EF			R138	1-216-841-11	METAL CHIP	47K	5%	1/10W
Q306	8-729-600-22	TRANSISTOR	2SA1235TP-1EF								(E51)
Q307	8-729-048-99	TRANSISTOR	2SK2541-T			R139	1-216-821-11	METAL CHIP	1K	5%	1/10W
Q308	8-729-048-99	TRANSISTOR	2SK2541-T			R140	1-216-821-11	METAL CHIP	1K	5%	1/10W
Q309	8-729-048-99	TRANSISTOR	2SK2541-T			R141	1-216-809-11	METAL CHIP	100	5%	1/10W
Q310	8-729-028-54	TRANSISTOR	KTC3205-Y-AT			R142	1-216-837-11	METAL CHIP	22K	5%	1/10W
Q311	8-729-037-03	TRANSISTOR	KTA1266GR-AT			R143	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q312	8-729-027-46	TRANSISTOR	RT1N144C-TP-1			R144	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q313	8-729-027-23	TRANSISTOR	RT1P141C-TP-1			R145	1-216-845-11	METAL CHIP	100K	5%	1/10W
Q403	8-729-927-88	TRANSISTOR	2SA1579T106-RR			R146	1-216-841-11	METAL CHIP	47K	5%	1/10W
Q404	8-729-927-88	TRANSISTOR	2SA1579T106-RR			R147	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q406	8-729-600-22	TRANSISTOR	2SA1235TP-1EF			R148	1-216-864-11	SHORT CHIP	0		
Q407	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF			R149	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
Q901	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF			R150	1-216-845-11	METAL CHIP	100K	5%	1/10W
Q902	8-729-027-46	TRANSISTOR	RT1N144C-TP-1			R151	1-216-837-11	METAL CHIP	22K	5%	1/10W
Q903	8-729-027-46	TRANSISTOR	RT1N144C-TP-1			R152	1-216-821-11	METAL CHIP	1K	5%	1/10W
Q904	8-729-040-76	TRANSISTOR	KTA1273-Y-AT			R153	1-216-789-11	METAL CHIP	2.2	5%	1/10W
Q905	8-729-040-76	TRANSISTOR	KTA1273-Y-AT			R154	1-216-789-11	METAL CHIP	2.2	5%	1/10W
Q906	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF			R155	1-249-665-31	CARBON	470	5%	1/2W
< RESISTOR >						R156	1-249-665-31	CARBON	470	5%	1/2W
R101	1-216-853-11	METAL CHIP	470K	5%	1/10W	R157	1-249-665-31	CARBON	470	5%	1/2W
R102	1-216-845-11	METAL CHIP	100K	5%	1/10W	R158	1-249-665-31	CARBON	470	5%	1/2W
R103	1-216-853-11	METAL CHIP	470K	5%	1/10W	R159	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R104	1-216-845-11	METAL CHIP	100K	5%	1/10W	R160	1-216-837-11	METAL CHIP	22K	5%	1/10W
R105	1-216-841-11	METAL CHIP	47K	5%	1/10W	R161	1-216-841-11	METAL CHIP	47K	5%	1/10W
R106	1-216-849-11	METAL CHIP	220K	5%	1/10W	R201	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R107	1-216-841-11	METAL CHIP	47K	5%	1/10W	R202	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R108	1-216-849-11	METAL CHIP	220K	5%	1/10W	R203	1-216-817-11	METAL CHIP	470	5%	1/10W
R109	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R204	1-216-817-11	METAL CHIP	470	5%	1/10W
R110	1-216-833-11	METAL CHIP	10K	5%	1/10W	R205	1-216-845-11	METAL CHIP	100K	5%	1/10W
R111	1-216-817-11	METAL CHIP	470	5%	1/10W	R206	1-216-845-11	METAL CHIP	100K	5%	1/10W
R112	1-216-841-11	METAL CHIP	47K	5%	1/10W	R207	1-216-833-11	METAL CHIP	10K	5%	1/10W
R113	1-216-809-11	METAL CHIP	100	5%	1/10W	R208	1-216-821-11	METAL CHIP	1K	5%	1/10W
R114	1-216-817-11	METAL CHIP	470	5%	1/10W	R209	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R115	1-216-841-11	METAL CHIP	47K	5%	1/10W	R210	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R116	1-216-809-11	METAL CHIP	100	5%	1/10W	R211	1-216-833-11	METAL CHIP	10K	5%	1/10W
R117	1-216-793-11	METAL CHIP	4.7	5%	1/10W	R212	1-216-833-11	METAL CHIP	10K	5%	1/10W
R119	1-216-793-11	METAL CHIP	4.7	5%	1/10W	R213	1-216-821-11	METAL CHIP	1K	5%	1/10W
R121	1-216-841-11	METAL CHIP	47K	5%	1/10W	R214	1-216-821-11	METAL CHIP	1K	5%	1/10W
R122	1-216-841-11	METAL CHIP	47K	5%	1/10W	R215	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R123	1-216-833-11	METAL CHIP	10K	5%	1/10W	R216	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R124	1-216-833-11	METAL CHIP	10K	5%	1/10W	R217	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R125	1-216-837-11	METAL CHIP	22K	5%	1/10W	R218	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R126	1-216-837-11	METAL CHIP	22K	5%	1/10W	R219	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R127	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R220	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R128	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R221	1-216-845-11	METAL CHIP	100K	5%	1/10W
R129	1-216-817-11	METAL CHIP	470	5%	1/10W	R222	1-216-845-11	METAL CHIP	100K	5%	1/10W
R130	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R223	1-216-837-11	METAL CHIP	22K	5%	1/10W
R131	1-216-833-11	METAL CHIP	10K	5%	1/10W	R224	1-216-837-11	METAL CHIP	22K	5%	1/10W
R132	1-216-833-11	METAL CHIP	10K	5%	1/10W	R225	1-216-833-11	METAL CHIP	10K	5%	1/10W
						R226	1-216-793-11	METAL CHIP	4.7	5%	1/10W
						R227	1-216-821-11	METAL CHIP	1K	5%	1/10W
						R228	1-216-841-11	METAL CHIP	47K	5%	1/10W
						R229	1-216-829-11	METAL CHIP	4.7K	5%	1/10W

CX-LDB30/LDB50

MAIN

Ref. No.	Part No.	Description			Remark
R230	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R231	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R232	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R301	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R302	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R303	1-216-845-11	METAL CHIP	100K	5%	1/10W
R304	1-216-845-11	METAL CHIP	100K	5%	1/10W
R305	1-216-849-11	METAL CHIP	220K	5%	1/10W
R306	1-216-821-11	METAL CHIP	1K	5%	1/10W
R307	1-216-821-11	METAL CHIP	1K	5%	1/10W
R308	1-216-853-11	METAL CHIP	470K	5%	1/10W
R309	1-216-853-11	METAL CHIP	470K	5%	1/10W
R310	1-216-837-11	METAL CHIP	22K	5%	1/10W
R311	1-216-821-11	METAL CHIP	1K	5%	1/10W
R312	1-216-821-11	METAL CHIP	1K	5%	1/10W
R313	1-216-837-11	METAL CHIP	22K	5%	1/10W
R314	1-216-837-11	METAL CHIP	22K	5%	1/10W
R315	1-216-841-11	METAL CHIP	47K	5%	1/10W
R316	1-216-841-11	METAL CHIP	47K	5%	1/10W
R317	1-216-821-11	METAL CHIP	1K	5%	1/10W
R318	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R319	1-216-864-11	SHORT CHIP	0		
R320	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R321	1-216-817-11	METAL CHIP	470	5%	1/10W
R322	1-216-833-11	METAL CHIP	10K	5%	1/10W
R323	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R324	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R401	1-216-833-11	METAL CHIP	10K	5%	1/10W
R402	1-216-833-11	METAL CHIP	10K	5%	1/10W
R403	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R405	1-216-833-11	METAL CHIP	10K	5%	1/10W
R406	1-216-833-11	METAL CHIP	10K	5%	1/10W
R407	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R408	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R409	1-216-841-11	METAL CHIP	47K	5%	1/10W
R410	1-216-841-11	METAL CHIP	47K	5%	1/10W
R411	1-216-833-11	METAL CHIP	10K	5%	1/10W
R412	1-216-833-11	METAL CHIP	10K	5%	1/10W
R413	1-216-821-11	METAL CHIP	1K	5%	1/10W
R414	1-216-821-11	METAL CHIP	1K	5%	1/10W
R415	1-216-809-11	METAL CHIP	100	5%	1/10W (LDB30)
R415	1-216-817-11	METAL CHIP	470	5%	1/10W (LDB50)
R416	1-216-809-11	METAL CHIP	100	5%	1/10W (LDB30)
R416	1-216-817-11	METAL CHIP	470	5%	1/10W (LDB50)
R417	1-216-817-11	METAL CHIP	470	5%	1/10W (LDB50)
R417	1-216-821-11	METAL CHIP	1K	5%	1/10W (LDB30)
R418	1-216-817-11	METAL CHIP	470	5%	1/10W (LDB50)
R418	1-216-821-11	METAL CHIP	1K	5%	1/10W (LDB30)
R419	1-216-837-11	METAL CHIP	22K	5%	1/10W
R420	1-216-837-11	METAL CHIP	22K	5%	1/10W
R421	1-216-837-11	METAL CHIP	22K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R422	1-216-837-11	METAL CHIP	22K	5%	1/10W
R423	1-216-833-11	METAL CHIP	10K	5%	1/10W
R424	1-216-833-11	METAL CHIP	10K	5%	1/10W
R425	1-216-361-31	METAL OXIDE	0.22	5%	2W (LDB30)
R425	1-245-545-11	METAL OXIDE	0.22	5%	3W (LDB50)
R426	1-216-361-31	METAL OXIDE	0.22	5%	2W (LDB30)
R426	1-245-545-11	METAL OXIDE	0.22	5%	3W (LDB50)
R427	1-216-821-11	METAL CHIP	1K	5%	1/10W
R428	1-216-821-11	METAL CHIP	1K	5%	1/10W
R429	1-216-817-11	METAL CHIP	470	5%	1/10W (LDB50)
R429	1-216-821-11	METAL CHIP	1K	5%	1/10W (LDB30)
R430	1-216-817-11	METAL CHIP	470	5%	1/10W (LDB50)
R430	1-216-821-11	METAL CHIP	1K	5%	1/10W (LDB30)
R431	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R432	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R433	1-216-833-11	METAL CHIP	10K	5%	1/10W
R434	1-216-833-11	METAL CHIP	10K	5%	1/10W
R435	1-216-833-11	METAL CHIP	10K	5%	1/10W
R436	1-216-833-11	METAL CHIP	10K	5%	1/10W
R437	1-216-801-11	METAL CHIP	22	5%	1/10W
R438	1-216-801-11	METAL CHIP	22	5%	1/10W
R439	1-216-801-11	METAL CHIP	22	5%	1/10W
R440	1-216-801-11	METAL CHIP	22	5%	1/10W
R441	1-216-801-11	METAL CHIP	22	5%	1/10W
R442	1-216-801-11	METAL CHIP	22	5%	1/10W
R443	1-216-801-11	METAL CHIP	22	5%	1/10W
R444	1-216-801-11	METAL CHIP	22	5%	1/10W
R449	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R450	1-216-833-11	METAL CHIP	10K	5%	1/10W
R451	1-216-821-11	METAL CHIP	1K	5%	1/10W
R452	1-216-837-11	METAL CHIP	22K	5%	1/10W
R453	1-216-849-11	METAL CHIP	220K	5%	1/10W
R454	1-216-833-11	METAL CHIP	10K	5%	1/10W
R455	1-216-833-11	METAL CHIP	10K	5%	1/10W
R456	1-216-797-11	METAL CHIP	10	5%	1/10W
R457	1-216-797-11	METAL CHIP	10	5%	1/10W
R458	1-216-797-11	METAL CHIP	10	5%	1/10W
R459	1-216-797-11	METAL CHIP	10	5%	1/10W
R460	1-216-797-11	METAL CHIP	10	5%	1/10W
R461	1-216-797-11	METAL CHIP	10	5%	1/10W
R462	1-216-797-11	METAL CHIP	10	5%	1/10W
R463	1-216-797-11	METAL CHIP	10	5%	1/10W
R601	1-216-797-11	METAL CHIP	10	5%	1/10W
R602	1-216-805-11	METAL CHIP	47	5%	1/10W
R603	1-216-861-11	METAL CHIP	2.2M	5%	1/10W
R604	1-216-861-11	METAL CHIP	2.2M	5%	1/10W
R605	1-216-821-11	METAL CHIP	1K	5%	1/10W
R606	1-216-821-11	METAL CHIP	1K	5%	1/10W
R607	1-216-837-11	METAL CHIP	22K	5%	1/10W
R608	1-216-837-11	METAL CHIP	22K	5%	1/10W
R609	1-216-805-11	METAL CHIP	47	5%	1/10W

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R610	1-216-797-11	METAL CHIP	10	5%	1/10W	R675	1-216-809-11	METAL CHIP	100	5%	1/10W
R611	1-216-813-11	METAL CHIP	220	5%	1/10W	R676	1-216-809-11	METAL CHIP	100	5%	1/10W
R612	1-216-813-11	METAL CHIP	220	5%	1/10W	R677	1-216-845-11	METAL CHIP	100K	5%	1/10W
R613	1-216-837-11	METAL CHIP	22K	5%	1/10W	R678	1-216-845-11	METAL CHIP	100K	5%	1/10W
R614	1-216-837-11	METAL CHIP	22K	5%	1/10W	R679	1-216-821-11	METAL CHIP	1K	5%	1/10W
R615	1-216-841-11	METAL CHIP	47K	5%	1/10W	R680	1-216-821-11	METAL CHIP	1K	5%	1/10W
R616	1-216-841-11	METAL CHIP	47K	5%	1/10W	R703	1-216-821-11	METAL CHIP	1K	5%	1/10W
R617	1-216-837-11	METAL CHIP	22K	5%	1/10W	R705	1-216-809-11	METAL CHIP	100	5%	1/10W
R618	1-216-837-11	METAL CHIP	22K	5%	1/10W	R706	1-216-821-11	METAL CHIP	1K	5%	1/10W
R619	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R707	1-216-809-11	METAL CHIP	100	5%	1/10W
R620	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R708	1-216-821-11	METAL CHIP	1K	5%	1/10W
R621	1-216-833-11	METAL CHIP	10K	5%	1/10W	R709	1-216-821-11	METAL CHIP	1K	5%	1/10W
R622	1-216-833-11	METAL CHIP	10K	5%	1/10W	R710	1-216-821-11	METAL CHIP	1K	5%	1/10W
R623	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R711	1-216-821-11	METAL CHIP	1K	5%	1/10W
R624	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R713	1-216-821-11	METAL CHIP	1K	5%	1/10W
R625	1-216-833-11	METAL CHIP	10K	5%	1/10W	R714	1-216-821-11	METAL CHIP	1K	5%	1/10W
R626	1-216-833-11	METAL CHIP	10K	5%	1/10W	R715	1-216-821-11	METAL CHIP	1K	5%	1/10W
R627	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R723	1-216-833-11	METAL CHIP	10K	5%	1/10W
R628	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R724	1-216-821-11	METAL CHIP	1K	5%	(RU, E51) 1/10W
R629	1-216-837-11	METAL CHIP	22K	5%	1/10W	R726	1-216-821-11	METAL CHIP	1K	5%	1/10W
R630	1-216-837-11	METAL CHIP	22K	5%	1/10W	R729	1-216-833-11	METAL CHIP	10K	5%	1/10W
R631	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R730	1-216-809-11	METAL CHIP	100	5%	(RU, E51) 1/10W
R632	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R731	1-216-817-11	METAL CHIP	470	5%	1/10W
R633	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R733	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R634	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R736	1-216-833-11	METAL CHIP	10K	5%	1/10W
R635	1-216-821-11	METAL CHIP	1K	5%	1/10W	R738	1-216-833-11	METAL CHIP	10K	5%	1/10W
R636	1-216-821-11	METAL CHIP	1K	5%	1/10W	R739	1-216-821-11	METAL CHIP	1K	5%	1/10W
R637	1-216-821-11	METAL CHIP	1K	5%	1/10W	R740	1-216-833-11	METAL CHIP	10K	5%	1/10W
R638	1-216-821-11	METAL CHIP	1K	5%	1/10W	R741	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R639	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R746	1-216-809-11	METAL CHIP	100	5%	1/10W
R640	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R748	1-216-821-11	METAL CHIP	1K	5%	1/10W
R641	1-216-833-11	METAL CHIP	10K	5%	1/10W	R749	1-216-821-11	METAL CHIP	1K	5%	1/10W
R642	1-216-833-11	METAL CHIP	10K	5%	1/10W	R750	1-216-821-11	METAL CHIP	1K	5%	1/10W
R643	1-216-845-11	METAL CHIP	100K	5%	1/10W	R753	1-216-821-11	METAL CHIP	1K	5%	1/10W
R644	1-216-845-11	METAL CHIP	100K	5%	1/10W	R754	1-216-809-11	METAL CHIP	100	5%	1/10W
R645	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R756	1-216-821-11	METAL CHIP	1K	5%	1/10W
R646	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R757	1-216-821-11	METAL CHIP	1K	5%	1/10W
R647	1-216-845-11	METAL CHIP	100K	5%	1/10W	R763	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R648	1-216-845-11	METAL CHIP	100K	5%	1/10W	R764	1-216-841-11	METAL CHIP	47K	5%	1/10W
R649	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R767	1-216-809-11	METAL CHIP	100	5%	1/10W
R650	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R768	1-216-809-11	METAL CHIP	100	5%	1/10W
R651	1-216-813-11	METAL CHIP	220	5%	1/10W	R769	1-216-809-11	METAL CHIP	100	5%	1/10W
R652	1-216-813-11	METAL CHIP	220	5%	1/10W	R770	1-216-821-11	METAL CHIP	1K	5%	1/10W
R653	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R771	1-216-809-11	METAL CHIP	100	5%	1/10W
R654	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R772	1-216-821-11	METAL CHIP	1K	5%	1/10W
R655	1-216-817-11	METAL CHIP	470	5%	1/10W	R773	1-216-809-11	METAL CHIP	100	5%	1/10W
R656	1-216-817-11	METAL CHIP	470	5%	1/10W	R776	1-216-809-11	METAL CHIP	100	5%	1/10W
R657	1-216-845-11	METAL CHIP	100K	5%	1/10W	R777	1-216-809-11	METAL CHIP	100	5%	1/10W
R658	1-216-845-11	METAL CHIP	100K	5%	1/10W	R779	1-216-821-11	METAL CHIP	1K	5%	1/10W
R659	1-216-841-11	METAL CHIP	47K	5%	1/10W	R780	1-216-809-11	METAL CHIP	100	5%	1/10W
R664	1-216-841-11	METAL CHIP	47K	5%	1/10W	R781	1-216-809-11	METAL CHIP	100	5%	1/10W
R665	1-216-821-11	METAL CHIP	1K	5%	1/10W	R782	1-216-821-11	METAL CHIP	1K	5%	1/10W
R667	1-216-821-11	METAL CHIP	1K	5%	1/10W	R783	1-216-809-11	METAL CHIP	100	5%	1/10W
R668	1-216-845-11	METAL CHIP	100K	5%	1/10W	R784	1-216-809-11	METAL CHIP	100	5%	1/10W
R669	1-216-845-11	METAL CHIP	100K	5%	1/10W	R785	1-216-809-11	METAL CHIP	100	5%	1/10W
R673	1-216-853-11	METAL CHIP	470K	5%	1/10W	R786	1-216-833-11	METAL CHIP	10K	5%	1/10W
R674	1-216-853-11	METAL CHIP	470K	5%	1/10W						

CX-LDB30/LDB50

Ver. 1.1

MAIN PANEL

Ref. No.	Part No.	Description	Remark		
R787	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R788	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R789	1-216-809-11	METAL CHIP	100	5%	1/10W
R791	1-216-837-11	METAL CHIP	22K	5%	1/10W
R792	1-216-841-11	METAL CHIP	47K	5%	1/10W
R793	1-216-833-11	METAL CHIP	10K	5%	1/10W
R794	1-216-809-11	METAL CHIP	100	5%	1/10W
R795	1-216-821-11	METAL CHIP	1K	5%	1/10W
R880	1-216-841-11	METAL CHIP	47K	5%	1/10W
R884	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R885	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R887	1-216-841-11	METAL CHIP	47K	5%	1/10W
R897	1-216-845-11	METAL CHIP	100K	5%	1/10W
R898	1-216-845-11	METAL CHIP	100K	5%	1/10W
R910	1-216-841-11	METAL CHIP	47K	5%	1/10W
R911	1-216-841-11	METAL CHIP	47K	5%	1/10W
R912	1-216-841-11	METAL CHIP	47K	5%	1/10W
R913	1-216-817-11	METAL CHIP	470	5%	1/10W
R914	1-216-817-11	METAL CHIP	470	5%	1/10W
R920	1-216-809-11	METAL CHIP	100	5%	1/10W
R923	1-216-809-11	METAL CHIP	100	5%	1/10W
R924	1-216-809-11	METAL CHIP	100	5%	1/10W
R926	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R941	1-216-833-11	METAL CHIP	10K	5%	1/10W
R942	1-216-833-11	METAL CHIP	10K	5%	1/10W
R943	1-216-809-11	METAL CHIP	100	5%	1/10W
R944	1-216-809-11	METAL CHIP	100	5%	1/10W
R945	1-216-809-11	METAL CHIP	100	5%	1/10W
R946	1-216-809-11	METAL CHIP	100	5%	1/10W
R947	1-216-809-11	METAL CHIP	100	5%	1/10W
R948	1-216-809-11	METAL CHIP	100	5%	1/10W
R949	1-216-809-11	METAL CHIP	100	5%	1/10W
R950	1-216-809-11	METAL CHIP	100	5%	1/10W
R951	1-216-809-11	METAL CHIP	100	5%	1/10W
R952	1-216-809-11	METAL CHIP	100	5%	1/10W
R953	1-216-809-11	METAL CHIP	100	5%	1/10W
R954	1-216-809-11	METAL CHIP	100	5%	1/10W
R955	1-216-809-11	METAL CHIP	100	5%	1/10W
R956	1-216-809-11	METAL CHIP	100	5%	1/10W
R958	1-216-809-11	METAL CHIP	100	5%	1/10W
R959	1-216-809-11	METAL CHIP	100	5%	1/10W
R962	1-216-809-11	METAL CHIP	100	5%	1/10W
R963	1-216-809-11	METAL CHIP	100	5%	1/10W
R965	1-216-821-11	METAL CHIP	1K	5%	1/10W
R966	1-216-821-11	METAL CHIP	1K	5%	1/10W
R977	1-216-833-11	METAL CHIP	10K	5%	1/10W
R978	1-216-841-11	METAL CHIP	47K	5%	1/10W
R979	1-216-841-11	METAL CHIP	47K	5%	1/10W
R980	1-216-833-11	METAL CHIP	10K	5%	1/10W
R985	1-216-821-11	METAL CHIP	1K	5%	1/10W
R986	1-216-817-11	METAL CHIP	470	5%	1/10W
R987	1-216-821-11	METAL CHIP	1K	5%	1/10W
R988	1-216-817-11	METAL CHIP	470	5%	1/10W
R989	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R990	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R991	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R993	1-216-829-11	METAL CHIP	4.7K	5%	1/10W

(RU, E51)

Ref. No.	Part No.	Description	Remark		
R994	1-216-813-11	METAL CHIP	220	5%	1/10W (RU)
R994	1-216-817-11	METAL CHIP	470	5%	1/10W (E51)
R994	1-216-864-11	SHORT CHIP	0 (AEP, UK)		
R995	1-216-853-11	METAL CHIP	470K	5%	1/10W
		< RELAY >			
RY201	1-755-170-11	RELAY (12V)			
		< THERMISTOR >			
TH401	1-805-217-21	THERMISTOR (1012)			
		< VIBRATOR >			
X901	1-579-463-11	VIBRATOR, CRYSTAL 32.768MHz			
X902	1-795-482-11	VIBRATOR, CERAMIC 16MHz			

	A-1091-005-A	PANEL BOARD, COMPLETE (LDB50)			
	A-1097-409-A	PANEL BOARD, COMPLETE (LDB30)			

		< CAPACITOR >			
C502	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C503	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C504	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C506	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C512	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C513	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C514	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C515	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C516	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C517	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C908	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C986	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
		< CONNECTOR >			
CN502	1-779-287-11	CONNECTOR, FFC (LIF (NON-ZIF)) 19P			
		< DIODE >			
D501	8-719-069-54	DIODE UDZSTE-175.1B			
D502	6-500-943-11	DIODE SELU1910CXM-S (LCD BACK LIGHT)			
D503	6-500-943-11	DIODE SELU1910CXM-S (LCD BACK LIGHT)			
D504	6-500-588-01	DIODE SLI-325URCT31W (STANDBY)			
D505	6-501-202-01	DIODE SELU6B14D-S-TP5 (VOLUME)(LDB50)			
		< IC >			
IC501	6-600-349-31	IC NJL24H400A			
		< SHORT >			
JR501	1-216-864-11	SHORT CHIP	0		
		< LIQUID CRYSTAL DISPLAY >			
LCD501	1-805-769-11	DISPLAY PANEL, LIQUID CRYSTAL			

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
< TRANSISTOR >						< SWITCH >					
Q502	8-729-027-46	TRANSISTOR	RT1N144C-TP-1 (LDB50)			S501	1-477-823-11	ENCODER, ROTARY (VOLUME)			
Q503	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF			S502	1-418-859-21	ENCODER, ROTARY (BASS)			
< RESISTOR >						S503	1-418-859-21	ENCODER, ROTARY (TREBLE)			
						S504	1-762-875-21	SWITCH, KEYBOARD (■)			
						S505	1-762-875-21	SWITCH, KEYBOARD	(PLAY MODE/TUNNING MODE)		
R501	1-216-805-11	METAL CHIP	47	5%	1/10W						
R502	1-216-805-11	METAL CHIP	47	5%	1/10W						
R504	1-216-817-11	METAL CHIP	470	5%	1/10W	S506	1-762-875-21	SWITCH, KEYBOARD (TAPE)			
R505	1-216-813-11	METAL CHIP	220	5%	1/10W	S507	1-762-875-21	SWITCH, KEYBOARD (CD)			
R507	1-216-821-11	METAL CHIP	1K	5%	1/10W	S508	1-762-875-21	SWITCH, KEYBOARD (AUDIO IN)			
						S509	1-762-875-21	SWITCH, KEYBOARD (▶▶/TUNING +)			
R508	1-216-837-11	METAL CHIP	22K	5%	1/10W	S510	1-762-875-21	SWITCH, KEYBOARD (◀◀/TUNING -)			
R509	1-216-825-11	METAL CHIP	2.2K	5%	1/10W						
R510	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	S511	1-762-875-21	SWITCH, KEYBOARD (I/♪)			
R511	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	S512	1-762-875-21	SWITCH, KEYBOARD (DISPLAY)			
R512	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	S513	1-762-875-21	SWITCH, KEYBOARD (i-Bass)			
						S514	1-762-875-21	SWITCH, KEYBOARD (FOLDER +)			
R513	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	S515	1-762-875-21	SWITCH, KEYBOARD (●REC/PAUSE/START)			
R516	1-216-841-11	METAL CHIP	47K	5%	1/10W						
R517	1-216-845-11	METAL CHIP	100K	5%	1/10W	S516	1-762-875-21	SWITCH, KEYBOARD (CD SYNC)			
					(LDB30)	S929	1-762-875-21	SWITCH, KEYBOARD (FOLDER -)			
R518	1-216-805-11	METAL CHIP	47	5%	1/10W	S936	1-762-875-21	SWITCH, KEYBOARD (TUNER)			
R519	1-216-864-11	SHORT CHIP	0			*****					
R521	1-216-821-11	METAL CHIP	1K	5%	1/10W		A-1091-003-A	PT BOARD, COMPLETE (AEP, UK, RU)			
R522	1-216-821-11	METAL CHIP	1K	5%	1/10W		A-1093-208-A	PT BOARD, COMPLETE (E51)			
					(LDB50)			*****			
R524	1-216-817-11	METAL CHIP	470	5%	1/10W						
					(LDB50)				< CAPACITOR >		
R525	1-216-813-11	METAL CHIP	220	5%	1/10W	△ C002	1-113-920-11	CERAMIC	0.0022uF	20%	250V
R526	1-216-817-11	METAL CHIP	470	5%	1/10W						(E51)
					(LDB50)	△ C003	1-113-920-11	CERAMIC	0.0022uF	20%	250V
R527	1-216-797-11	METAL CHIP	10	5%	1/10W						(E51)
R528	1-216-797-11	METAL CHIP	10	5%	1/10W	C004	1-164-156-11	CERAMIC CHIP	0.1uF		25V
R529	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	C005	1-126-961-11	ELECT	2.2uF	20%	50V
R530	1-216-821-11	METAL CHIP	1K	5%	1/10W				< CONNECTOR >		
R531	1-216-829-11	METAL CHIP	4.7K	5%	1/10W						
						△ CN001	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P			
R532	1-216-833-11	METAL CHIP	10K	5%	1/10W	* CN002	1-564-523-11	PLUG, CONNECTOR 8P			
R533	1-216-825-11	METAL CHIP	2.2K	5%	1/10W				< DIODE >		
R535	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R536	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	D001	8-719-988-61	DIODE 1SS355TE-17			
R537	1-216-833-11	METAL CHIP	10K	5%	1/10W	D002	6-500-335-01	DIODE MC2838-T112-1			
						D004	8-719-063-79	DIODE 1N4002B			
R539	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	D005	8-719-063-79	DIODE 1N4002B			
R540	1-216-821-11	METAL CHIP	1K	5%	1/10W	D006	8-719-063-79	DIODE 1N4002B			
R541	1-216-829-11	METAL CHIP	4.7K	5%	1/10W						
R542	1-216-833-11	METAL CHIP	10K	5%	1/10W	D007	8-719-063-79	DIODE 1N4002B			
R546	1-216-821-11	METAL CHIP	1K	5%	1/10W				< TRANSFORMER >		
R547	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	△ PT003	1-439-736-11	TRANSFORMER, POWER (E51)			
R548	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	△ PT004	1-443-410-11	TRANSFORMER, POWER (AEP, UK, RU)			
R549	1-216-829-11	METAL CHIP	4.7K	5%	1/10W				< RESISTOR >		
R550	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R551	1-216-837-11	METAL CHIP	22K	5%	1/10W						
R552	1-216-841-11	METAL CHIP	47K	5%	1/10W						
R553	1-216-821-11	METAL CHIP	1K	5%	1/10W	R002	1-216-821-11	METAL CHIP	1K	5%	1/10W
R554	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R003	1-216-821-11	METAL CHIP	1K	5%	1/10W
R555	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R004	1-216-837-11	METAL CHIP	22K	5%	1/10W
R556	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R005	1-216-809-11	METAL CHIP	100	5%	1/10W
						R007	1-216-801-11	METAL CHIP	22	5%	1/10W
R557	1-216-833-11	METAL CHIP	10K	5%	1/10W				(AEP, UK, RU)		
R558	1-216-837-11	METAL CHIP	22K	5%	1/10W						
R559	1-216-841-11	METAL CHIP	47K	5%	1/10W						
R560	1-216-833-11	METAL CHIP	10K	5%	1/10W	R007	1-216-864-11	SHORT CHIP	0 (E51)		

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

CX-LDB30/LDB50

Ver. 1.1

PT

Ref. No.	Part No.	Description	Remark		
R008	1-216-797-11	METAL CHIP	10	5%	1/10W (AEP, UK, RU)
R008	1-216-864-11	SHORT CHIP	0 (E51)		

< RELAY >

△ RY001	1-755-334-11	RELAY, AC POWER (AEP, RU)
△ RY002	1-755-496-11	RELAY (E51)

< SWITCH >

△ S001	1-786-408-11	SELECTOR, VOLTAGE (SWS-2301)(E51) (VOLT SELECTOR)
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MISCELLANEOUS

9	1-763-697-21	DC FAN
10	1-828-403-11	WIRE (FLAT TYPE)(27 CORE)
77	1-828-360-11	WIRE (FLAT TYPE)(19 CORE)
79	1-828-958-11	WIRE (FLAT TYPE)(9 CORE)
82	1-828-945-11	WIRE (FLAT TYPE)(7 CORE)
83	1-796-352-41	DECK, MECHANICAL
108	1-828-967-11	WIRE (FLAT TYPE)(11 CORE)(RU, E51)
108	1-828-987-11	WIRE (FLAT TYPE)(15 CORE)(AEP, UK)
109	1-693-626-11	TUNER (FM/AM)(AEP, UK)
109	1-693-628-21	TUNER (FM/AM)(E51)
109	1-693-629-31	TUNER (FM/AM)(RU)
110	1-400-285-11	F-BEAD, E2515MRT
△ 112	1-769-744-81	CORD, POWER (UK)
△ 112	1-830-188-11	CORD, POWER (AEP, RU)
△ 301	8-820-252-01	OPTICAL PICK-UP (KSM-215CFP/C2NP) (including M101,M102)
308	1-827-992-11	WIRE (FLAT TYPE)(16 CORE)
M701	X-4955-496-1	MOTOR (PULLEY) ASSY (LOADING)
△ PT001	1-443-216-11	TRANSFORMER, POWER (LDB50: AEP, RU)
△ PT001	1-443-217-11	TRANSFORMER, POWER (LDB30: AEP, RU)
△ PT001	1-443-218-11	TRANSFORMER, POWER (LDB50: E51)
△ PT001	1-443-220-11	TRANSFORMER, POWER (LDB30: E51)
S101	1-771-853-11	SWITCH, DETECTION (LIMIT)

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

MEMO

REVISION HISTORY

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

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