

HCD-CP555/NXM1

SERVICE MANUAL

Ver. 1.1 2005.05



AEP Model
HCD-CP555/NXM1
UK Model
E Model
HCD-CP555

- HCD-CP555 is the Amplifier, CD player, tape deck and tuner section in CMT-CP555.
- HCD-NXM1 is the Amplifier, CD player, tape deck and tuner section in MHC-NXM1.

Photo : HCD-CP555

CD Section	Model Name Using Similar Mechanism	NEW
	CD Mechanism Type	CDM81B-F1BD81A
	Base Unit Name	BU-F1BD81A
	Optical Pick-up Name	KSM-215DCP/C2NP
TAPE Section	Model Name Using Similar Mechanism	NEW

SPECIFICATIONS

Amplifier section AUDIO POWER SPECIFICATIONS

The following measured at AC 120 – 127/220 – 240 V, 50/60 Hz (Saudi Arabian model only)

The following measured at AC 230 V, 50/60 Hz (European and Russian models only)

The following measured at AC 120/220 – 240 V, 50/60 Hz (except for European, Russian and Saudi Arabian models)

DIN power output (rated): 55 + 55 watts
(6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference):
75 + 75 watts
(6 ohms at 1 kHz, 10% THD)

Inputs

VIDEO/MD IN (phono jacks): Sensitivity 250/450 mV, impedance 47 kilohms

Outputs

DIGITAL (OPTICAL) OUT: Optical Wavelength: 660 nm
PHONES (mini jack): accepts headphones with an impedance of 8 ohms or more

SPEAKER:
Use only the supplied speakers
SS-CP555S
(HCD-CP555)
SS-NXM1
(HCD-NXM1)

CD player section

System Compact disc and digital audio system
Laser Semiconductor laser
($\lambda=770 - 810$ nm)
Emission duration: continuous
2 Hz – 20 kHz (± 0.5 dB)

Frequency response

Tape deck section

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

– Continued on next page –

HCD-CP555
MICRO Hi-Fi COMPONENT SYSTEM
HCD-NXM1
Mini Hi-Fi COMPONENT SYSTEM

9-877-825-02
2005E02-1
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Audio Group
Published by Sony Engineering Corporation

SONY®

HCD-CP555/NXM1

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range

Russian model: 65.0 – 74.0 MHz (10-kHz step)
(There is no stereo effect)

Other models: 87.5 – 108.0 MHz (50-kHz step)

Antenna FM lead antenna

Antenna terminals 75 ohms unbalanced

Intermediate frequency 10.7 MHz

AM tuner section

Tuning range

Pan-American model: 530 – 1,710 kHz
(with the tuning interval set at 10 kHz)

531 – 1,710 kHz
(with the tuning interval set at 9 kHz)

European, Russian and Saudi Arabian models: 531 – 1,602 kHz
(with the tuning interval set at 9 kHz)

Other models: 531 – 1,602 kHz
(with the tuning interval set at 9 kHz)

530 – 1,710 kHz
(with the tuning interval set at 10 kHz)

Antenna AM loop antenna

Antenna terminals External antenna terminal

Intermediate frequency 450 kHz

General

Power requirements

European and Russian models: 230 V AC, 50/60 Hz

Saudi Arabian model: 120 – 127 V or 220 – 240 V AC, 50/60 Hz

Other models: Adjustable with voltage selector
120 V, 220 – 240 V AC, 50/60 Hz

Power consumption

European and Russian models: 110 watts
0.3 watts (in Power Saving mode)

Other models: 115 watts

Dimensions (w/h/d) incl. projecting parts and controls

Amplifier/Tuner/Tape/CD section:
Approx. 230 x 292 x 355 mm

Mass

Amplifier/Tuner/Tape/CD section:
Approx. 6.5 kg

Supplied accessories Remote Commander (1)
Size AA (R6) batteries (2)
AM loop antenna (1)
FM lead antenna (1)
Speaker pads (8)

Design and specifications are subject to change without notice.

Notes on chip component replacement

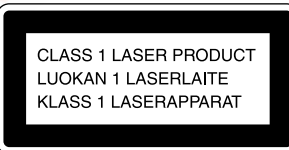
- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

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

CAUTION

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



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

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK Δ OR DOTTED LINE WITH MARK Δ 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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 (CDM81B-F1BD81A) 51

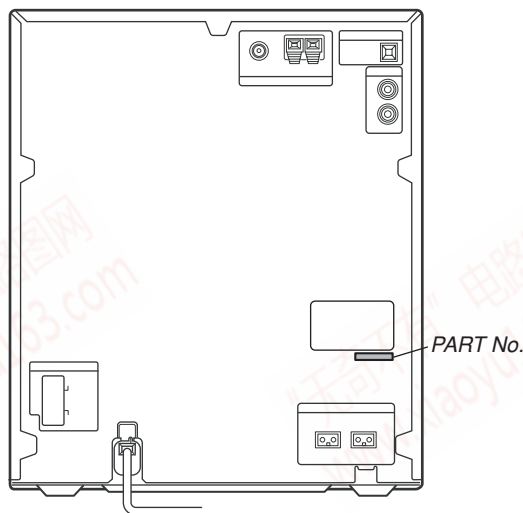
9. ELECTRICAL PARTS LIST 52

SECTION 1 SERVICING NOTES

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

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

• MODEL IDENTIFICATION – Back Panel –



NOTES ON LASER DIODE EMISSION CHECK

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

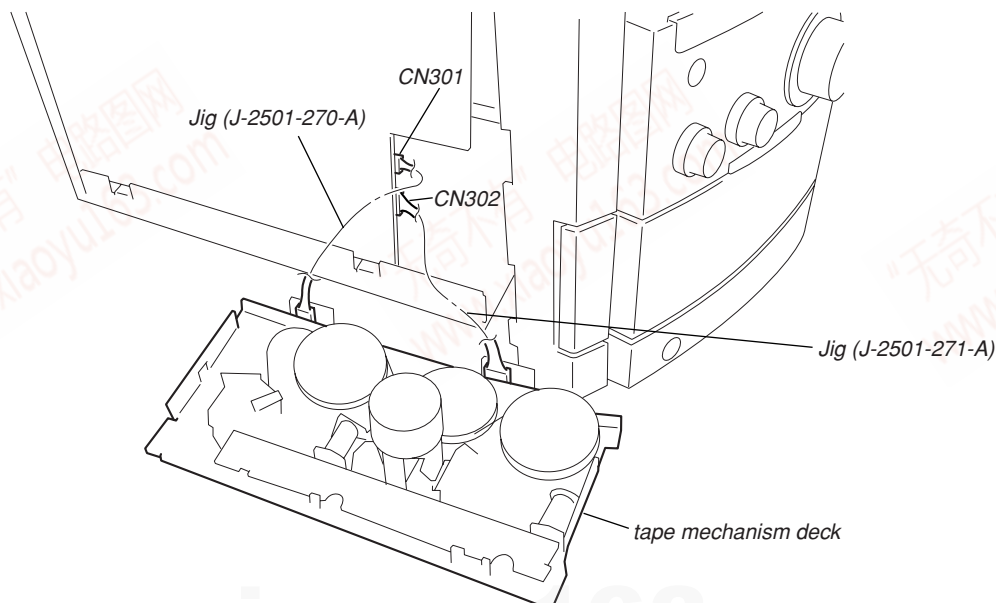
LASER DIODE AND FOCUS SEARCH OPERATION CHECK

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

- Abbreviation
 - E3 : 240 V AC Area in E model
 - E51 : Chilean and Peruvian model
 - EA : Saudi Arabia model
 - RU : Russian model

MODEL	PART No.
AEP, UK models	4-252-542-0□
RU model	4-252-542-1□
E3 model	4-252-542-2□
E51 model	4-252-542-3□
EA model	4-252-542-5□

• SERVICE POSITION FOR TAPE MECHANISM DECK



SECTION 2 GENERAL

This section is extracted from instruction manual.

LOCATING THE CONTROLS

List of button locations and reference pages

Main unit

ALPHABETICAL ORDER

A - O

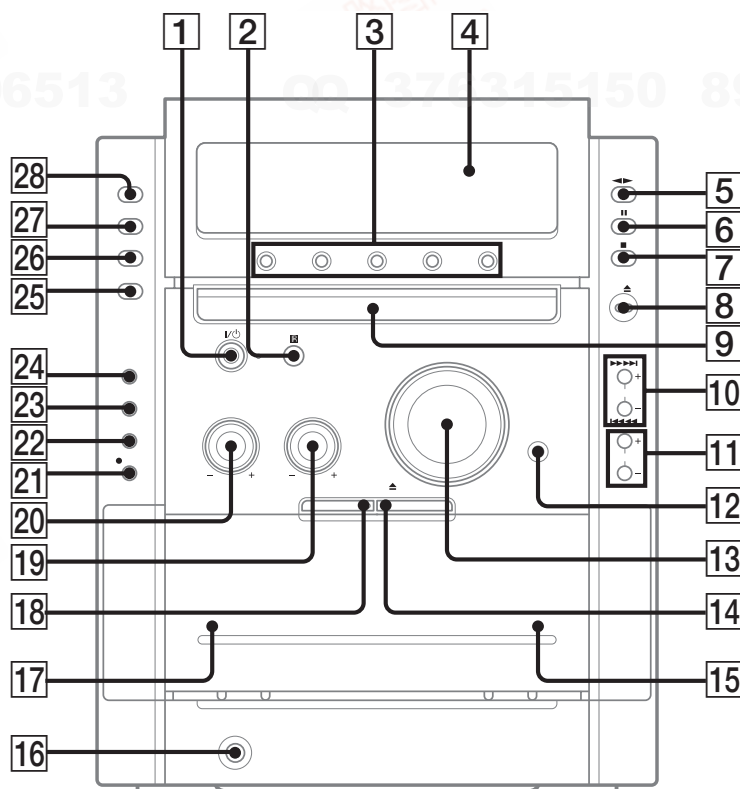
- ALBUM +/- [11]
- BASS control [20]
- CD [28]
- CD SYNC [22]
- Deck A [17]
- Deck B [15]
- DIMMER [23]
- DISC 1 - 5 [3]
- Disc tray [9]
- DISPLAY [24]
- Display window [4]
- DSGX [12]

P - Z

- PHONES jack [16]
- Remote sensor [2]
- TAPE A/B [26]
- TREBLE control [19]
- TUNER/BAND [27]
- TUNING +/- [10]
- VIDEO/MD [25]
- VOLUME control [13]

BUTTON DESCRIPTIONS

- I/⏻ (power) [1]
- ▶▶▶▶ (play) [5]
- ⏸ (pause) [6]
- (stop) [7]
- CD ▲ (eject) [8]
- ◀◀◀◀/▶▶▶▶ (rewind/fast forward, go back/go forward) [10]
- TAPE ▲ B (eject) [14]
- A TAPE ▲ (eject) [18]
- START [21]



This section is extracted from instruction manual.

Remote control

ALPHABETICAL ORDER

A - E

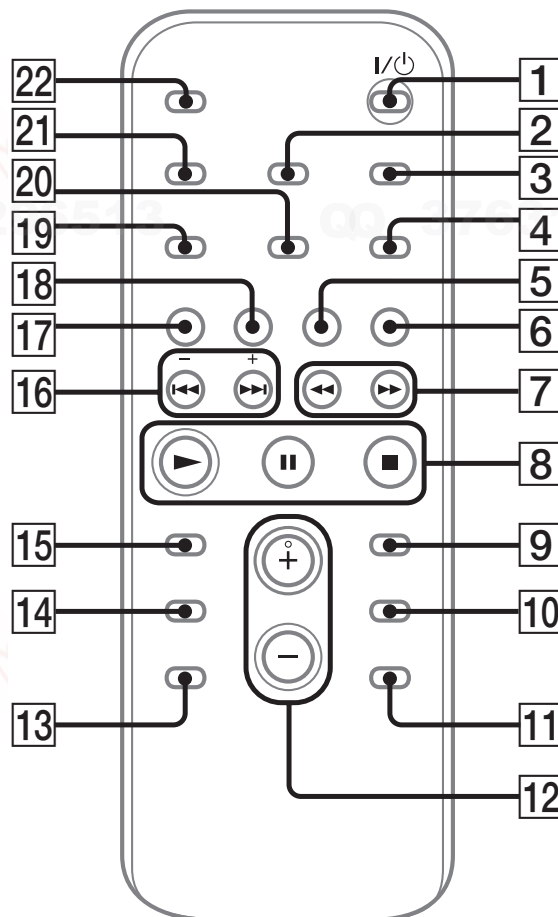
- ALBUM - [13]
- ALBUM + [11]
- CD [18]
- CLEAR [15]
- CLOCK/TIMER SELECT [2]
- CLOCK/TIMER SET [3]
- DISC SKIP [10]
- DISPLAY [21]
- ENTER [9]
- EQ [14]

F - Z

- FM MODE [4]
- FUNCTION [6]
- PLAY MODE [20]
- REPEAT [4]
- SLEEP [22]
- TAPE [17]
- TUNER BAND [5]
- TUNER MEMORY [19]
- TUNING MODE [20]
- VOLUME +/- [12]

BUTTON DESCRIPTIONS

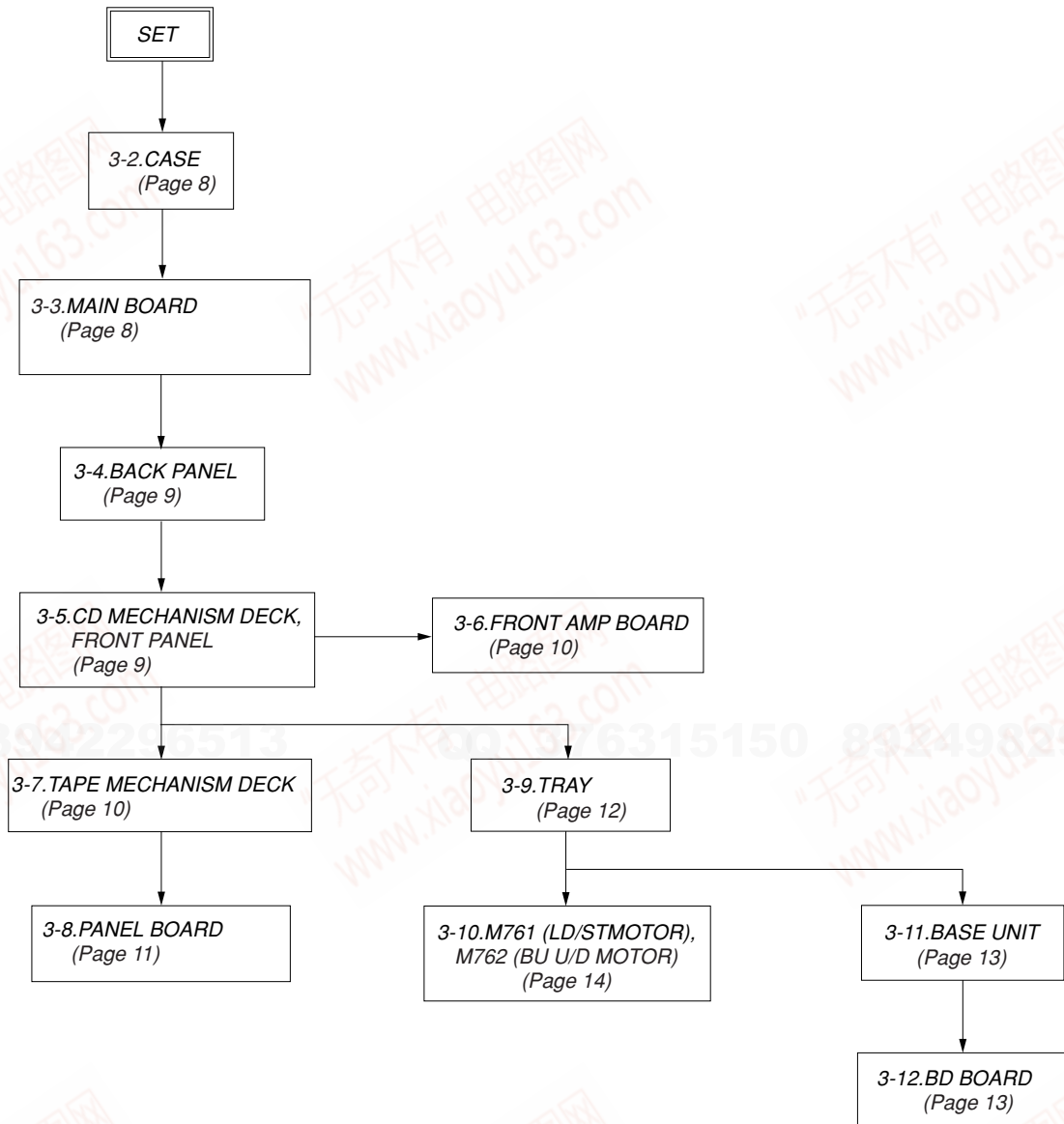
- I/⏻ (power) [1]
- ◀◀/▶▶ (rewind/fast forward) [7]
- ▶ (play) [8]
- ⏸ (pause) [8]
- (stop) [8]
- ◀◀/▶▶ (go back/go forward) [16]
- /+ (tuning) [16]



SECTION 3 DISASSEMBLY

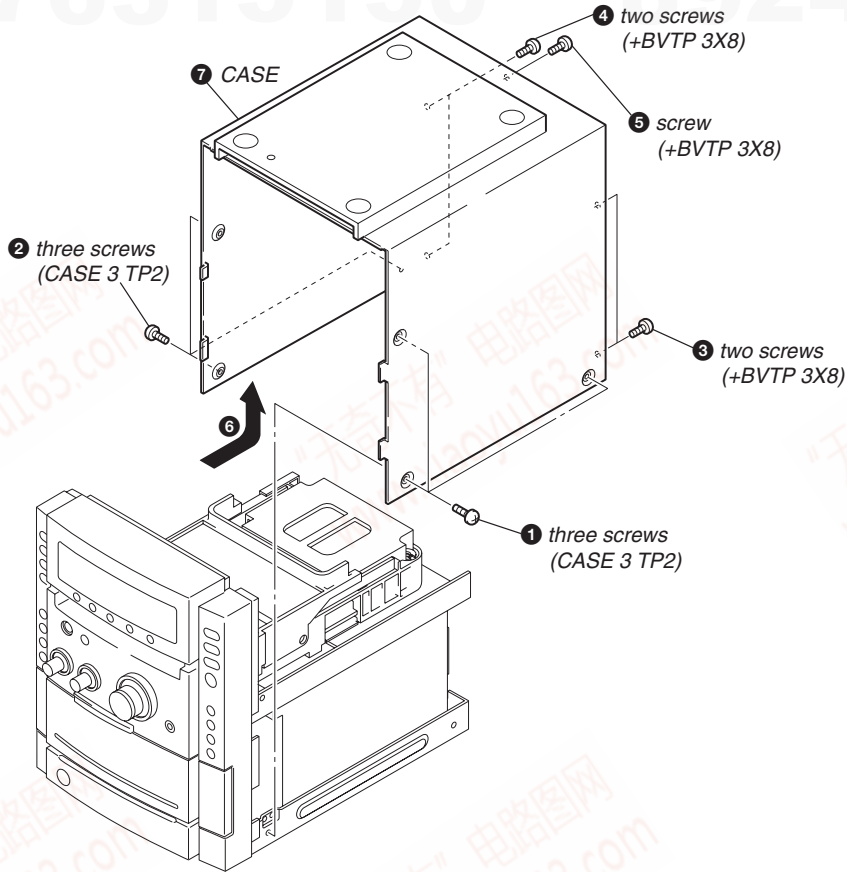
• This set can be disassembled in the order shown below.

3-1. DISASSEMBLY FLOW

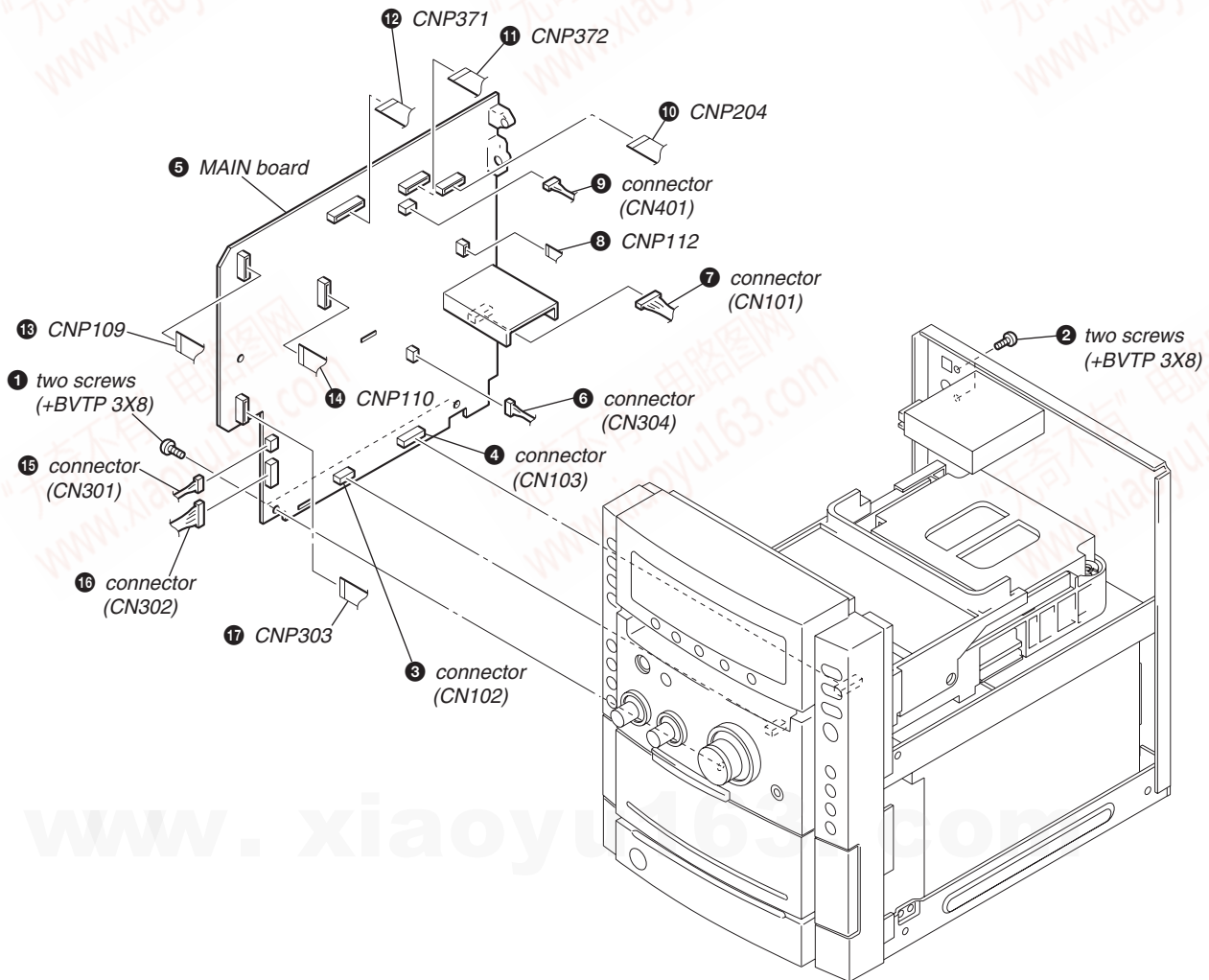


Note: Follow the disassembly procedure in the numerical order given.

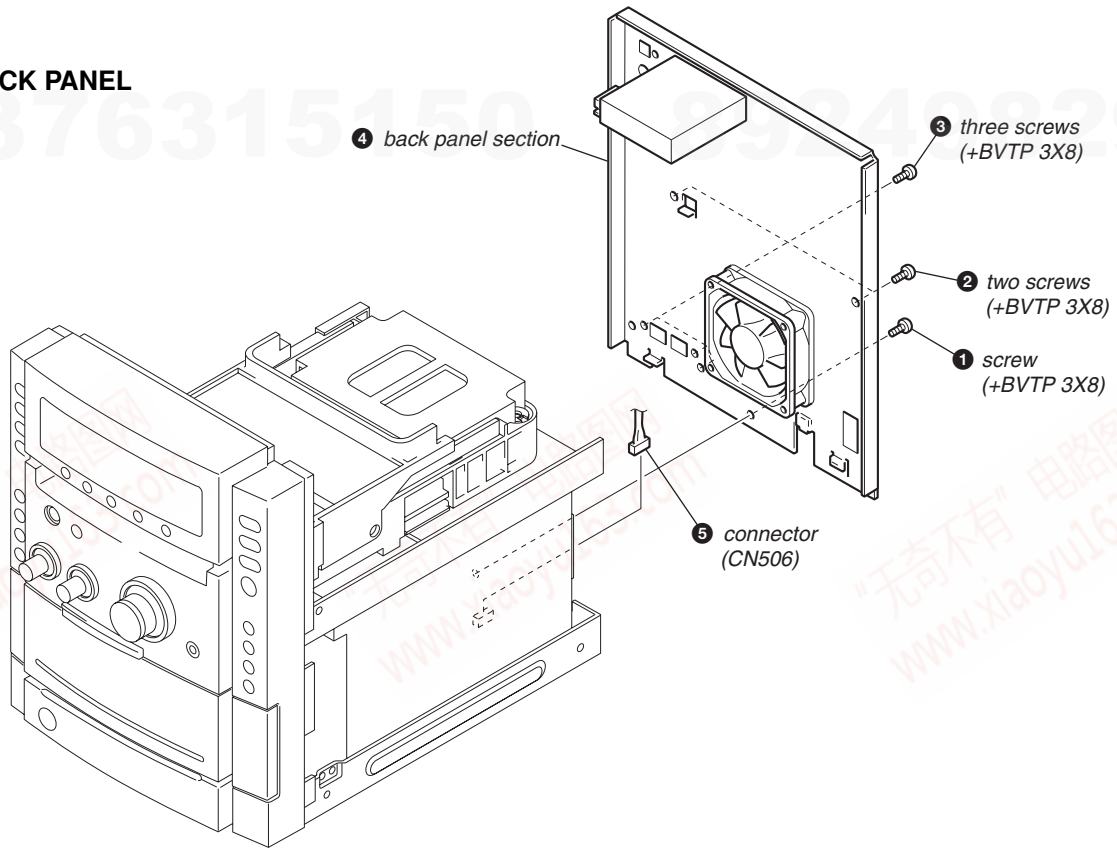
3-2. CASE



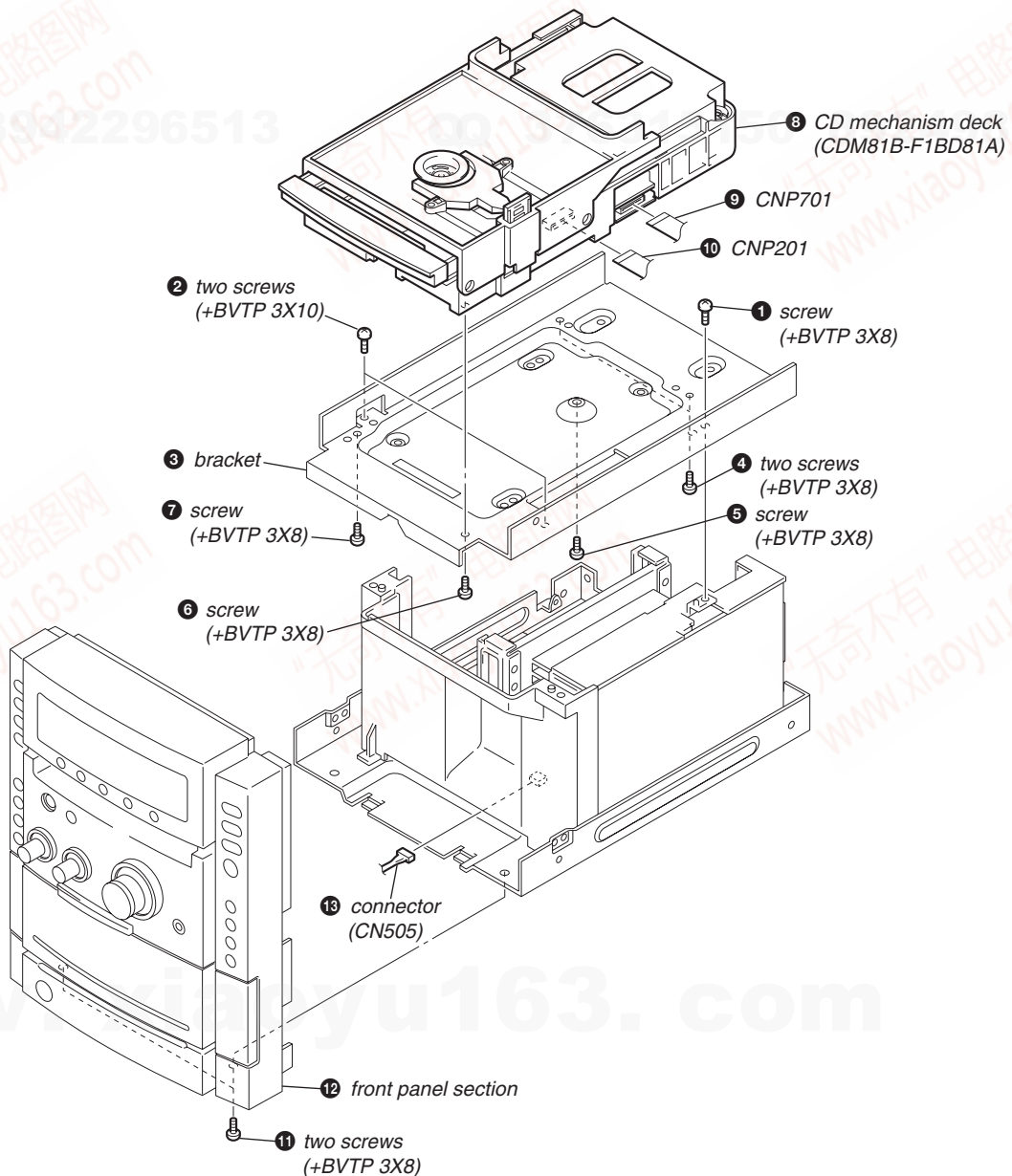
3-3. MAIN BOARD



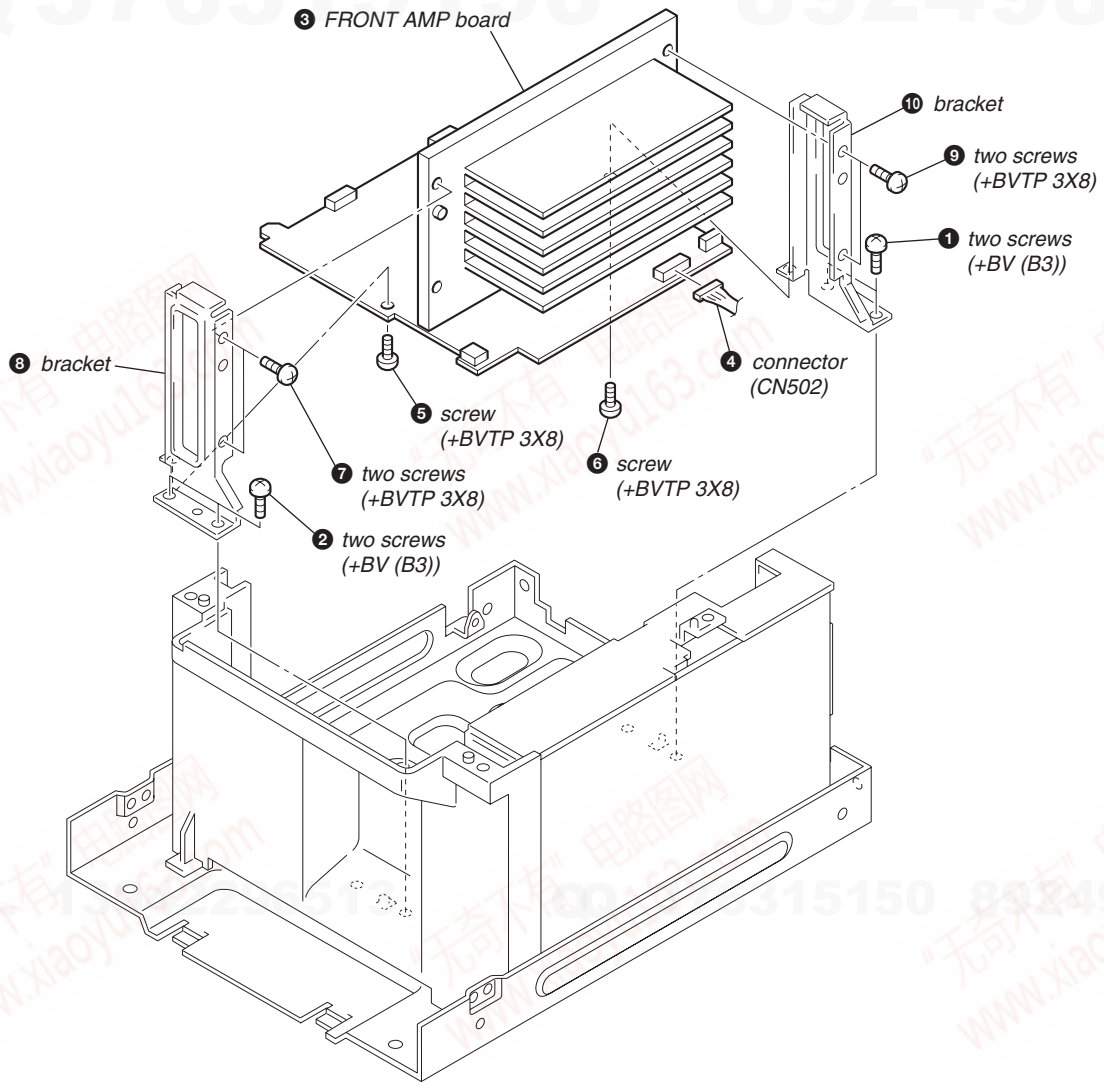
3-4. BACK PANEL



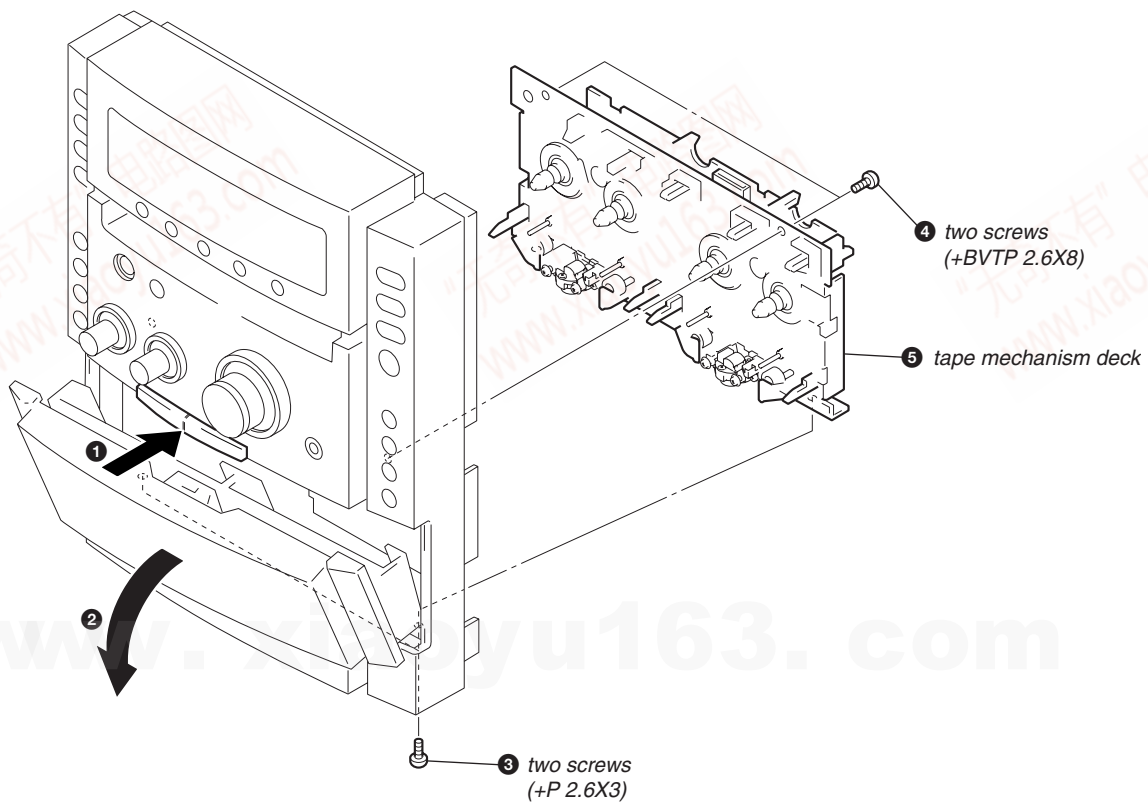
3-5. CD MECHANISM DECK (CDM81B-F1BD81A), FRONT PANEL



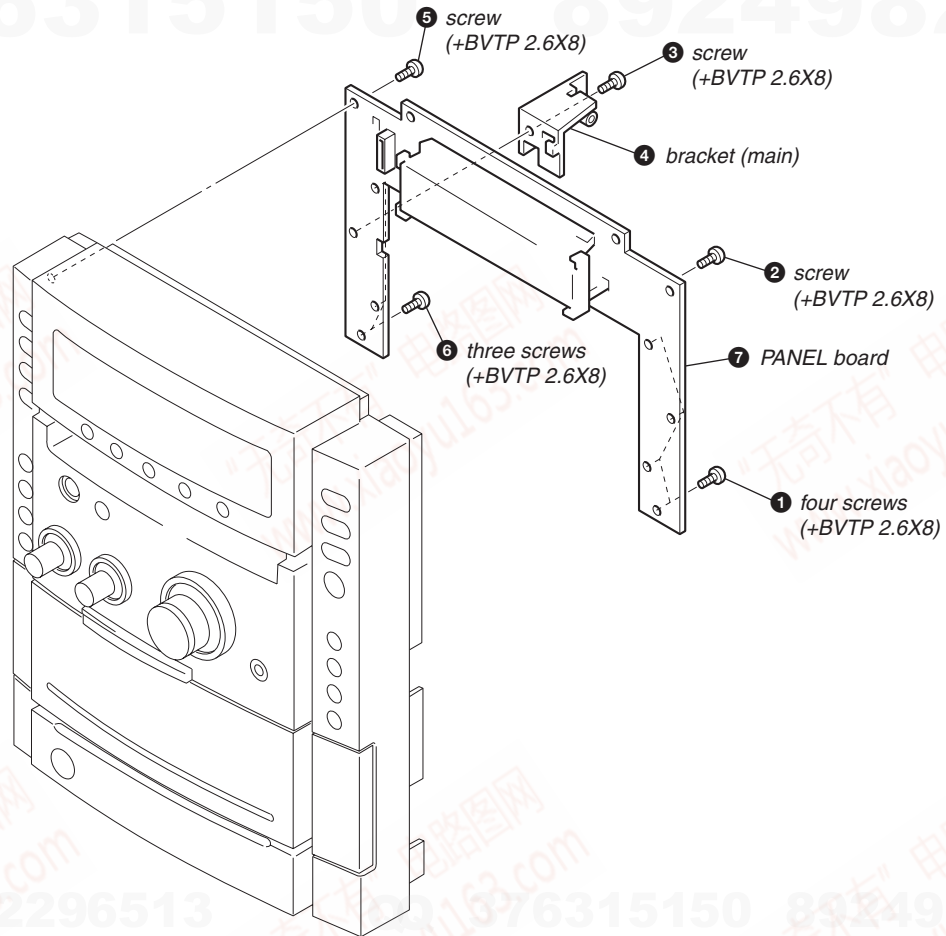
3-6. FRONT AMP BOARD



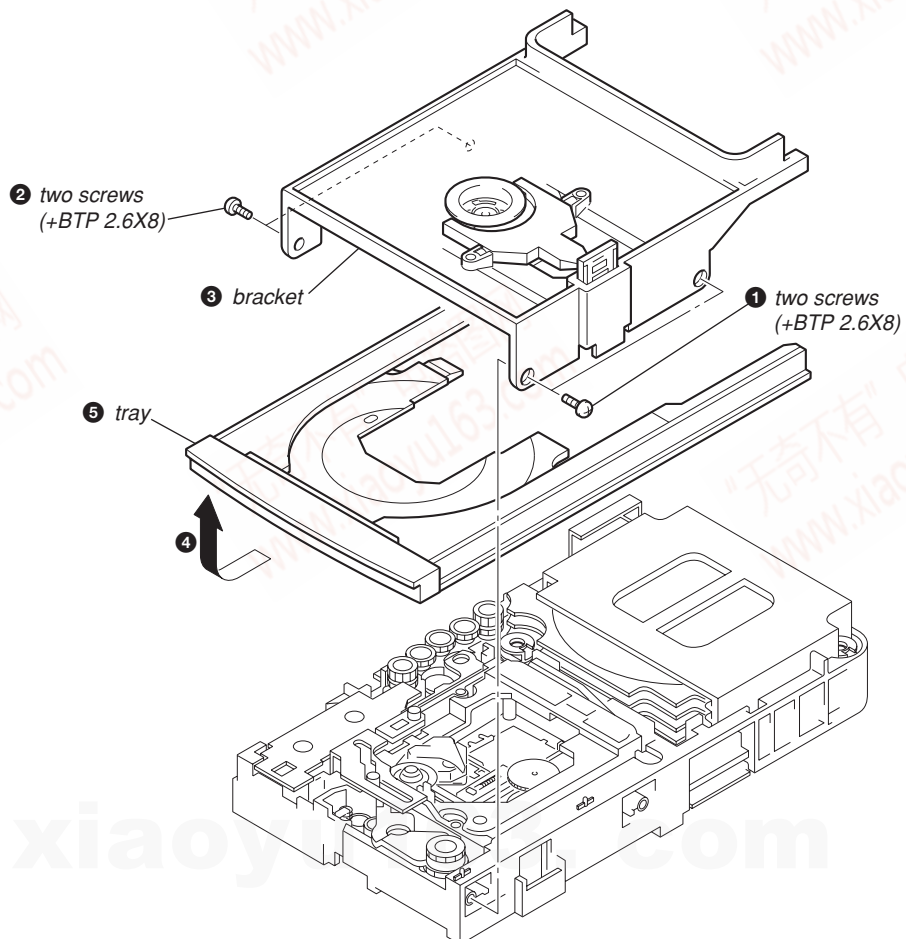
3-7. TAPE MECHANISM DECK



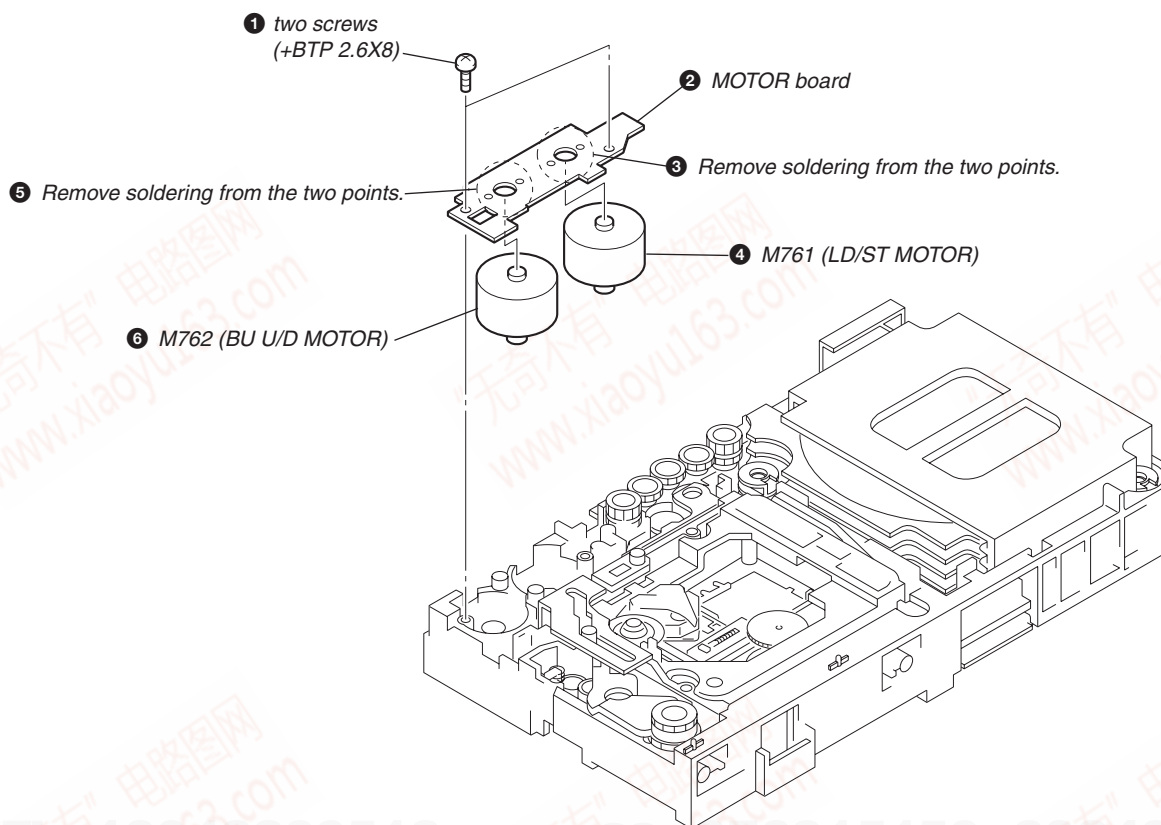
3-8. PANEL BOARD



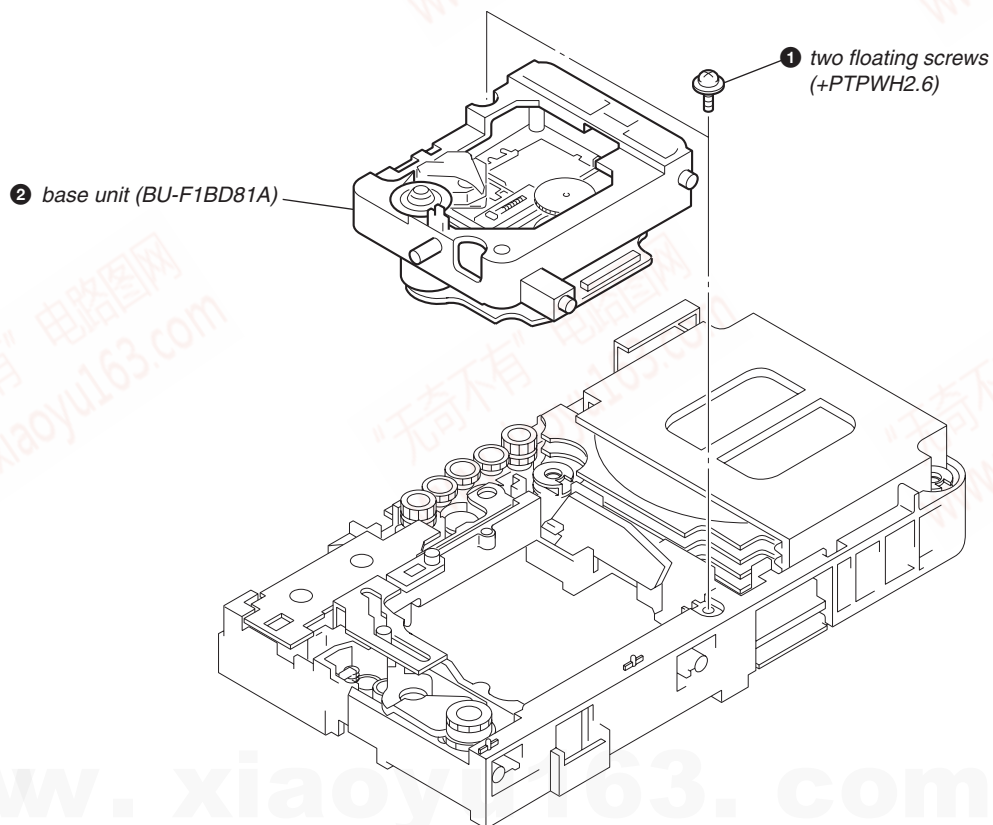
3-9. TRAY



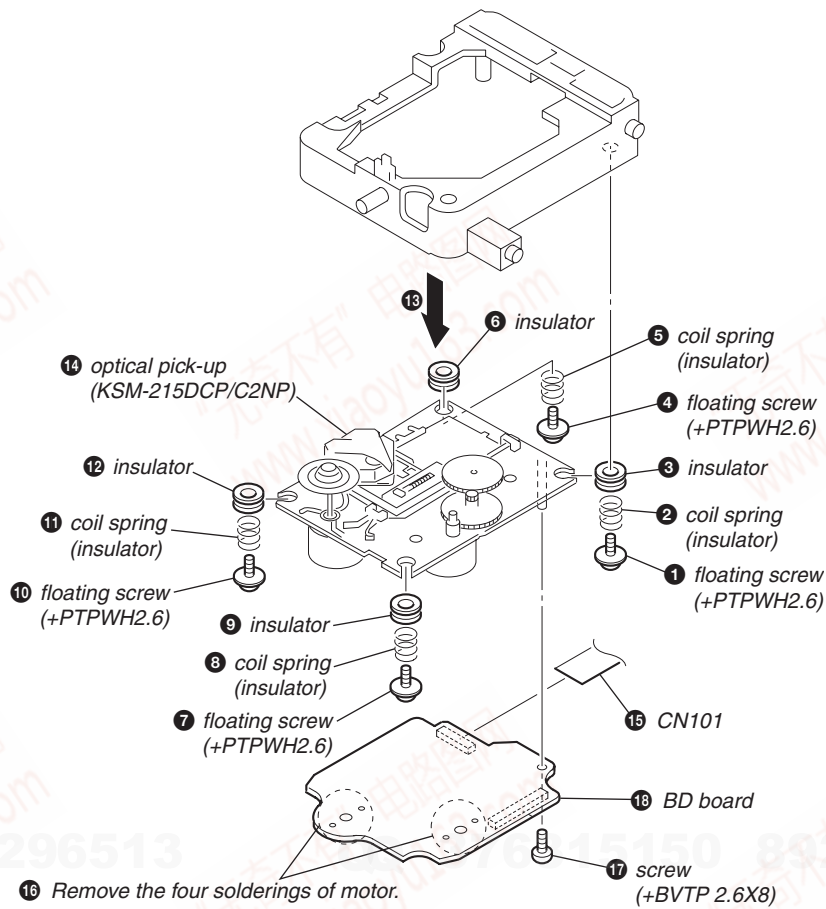
3-10. M761 (LD/ST MOTOR), M762 (BU U/D MOTOR)



3-11. BASE UNIT (BU-F1BD81A)



3-12. BD BOARD



SECTION 4 TEST MODE

[Change-over of AM Tuner Step between 9 kHz and 10 kHz]

- A step of AM channels can be changed over between 9 kHz and 10 kHz.

Procedure:

- Press button to turn the set ON.
- Select the function "TUNER", and press button to select the BAND "AM".
- Press button to turn the set OFF.
- Press and buttons simultaneously, and the display of fluorescent indicator tube changes to "AM 9 kHz step" or "AM 10 kHz step", and thus the channel step is changed over.

[Cold Reset]

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

Procedure:

- Press three buttons , , and simultaneously.

[Switching MD/VIDEO Functions]

Procedure:

- Press the button to turn the set ON.
- Press the button while holding the button depressed to toggle between "MD" and "VIDEO." The selected mode is displayed.

[Error code indication]

Procedure:

- Press the button to turn the set ON.
- Select the "CD" function.
- Press the , , and buttons simultaneously.
- The error code is displayed.
- Press the button to display the next error code. Press the button to display the previous error code.

[Aging Mode]

This mode can be used for operation check CD section and Tape deck section.

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

- Aging mode in CD section

Procedure:

- Press button on the set ON
- Select the function "CD"
- Press three buttons , , and simultaneously. The "Aging in" display and aging mode is set.
- Press button, starts aging mode of all trays check.
- Press button, starts measurement loading time.
- To exit from the aging mode perform .

1) Error display

Disc error	
Display	Error
E00D01022	Focus error (No disc)
E00D02022	Sub Q error (Focus is good)
E00D02023	TOC reading error
E00D02014	Access error (Unable within regular time)

Mechanism error	
Display	Error
E00M_E_0	Error during opening tray
E00M_C_2	EX-CHANGE disc error
E00M_D_0	Error during closing tray
E00M_F_3	EX-OPEN error
E00M_D_5	EX-CLOSE error
E00M_C_2	Chuck-up error
E00M_C_3	Unchucking error

- Aging mode in Tape Deck section

Procedure:

- Load the tapes into the decks A and B respectively.
- Press button on the set ON
- Select the function "TAPE A"
- Press three buttons , , and simultaneously, and aging mode is started.
- To exit from the aging mode perform .



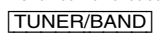
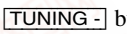







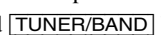
- In the aging mode, the program is executed in the following sequence.

Step	Operation	Display
1	Rewind the TAPE A	TAPE A AG-1
2	Rewind the TAPE B	TAPE B AG-1
3	Play the TAPE A (→) (2 minute)	TAPE A AG-2
4	F•F (AMS) the TAPE A	TAPE A AG-3
5	Play the TAPE A (←) (2 minute)	TAPE A AG-4
6	Rewind the TAPE A	TAPE A AG-5
7	Play the TAPE B (→) (2 minute)	TAPE B AG-2
8	F•F (AMS) the TAPE B	TAPE B AG-3
9	Play the TAPE B (←) (2 minute)	TAPE B AG-4
10	Rewind the TAPE B	TAPE B AG-5

[GC Test Mode]

- All fluorescent segments and LEDs are tested.
- Microprocessor version.
- Keyboard check.
- Display check.




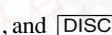
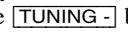
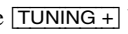


Procedure:

1. To enter the test mode, press the three buttons ,  and  simultaneously.
2. All segments and LEDs (without STANDBY LED) are turned on.
3. Press the  button to increment the microprocessor software version.
4. Press the  button to change the indication for the microprocessor software version.
3. Press the   button to set the check mode for the entries (KEY, JOG, etc.).
4. Press the  button to display the current VACS level.
7. Press the  button to enter the mode to check the display. If you press this button repeatedly, the display will change sequentially as the button is pressed.
8. Press the ,  and  buttons simultaneously to set the standby mode.

[CD Service Mode]

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

Procedure:





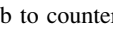
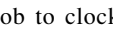


1. Press  button to turn the set ON.
2. Select the function “CD”.
3. To enter the test mode, press three buttons , , and  simultaneously.
4. The CD service mode is selected. The message “CD SERVICE MODE” is displayed.
5. While holding the  button depressed, to move the sled to the inside. “SLED IN” is displayed. While holding the  button depressed, to move the sled to the outside. “SLED OUT” is displayed.
6. Press the  button so that “LD ON” and “LD OFF” are displayed to switch between Laser ON/OFF.
7. To exit from this mode, perform as follows:
 - 1) Move the pick-up to the most inside track.
 - 2) Press  button to turn the set OFF.

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

[MC Test Mode] (Amplifier SECTION)

- This mode is used to test the function of the amplifier section.





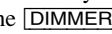

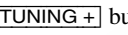

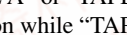



Procedure:

1. Press  button to turn the set ON.
2. To enter the test mode, press the three buttons ,  and  simultaneously.
3. Turn  knob to counter-clockwise, the function of the equalizer is set to “MIN”.
4. Turn  knob to clockwise, the function of the equalizer is set to “MAX”.
5. Whenever turn  knob to clockwise, the display switches as follows.
“TONE MAX” → “TONE MIN” → “TONE FLAT”
6. To exit from this mode, press  button to turn the set OFF.

[MC Test Mode] (Tape section)

- This mode is used to test the functions of the Tape Procedure.




Procedure:

1. Press  button to turn the set ON.
2. To enter the test mode, press the three buttons ,  and  simultaneously.
3. While holding the  button depressed, turn the ALC ON.
4. Press the  button to start REC (recording).
5. While recording, press the  button to perform automatic rewind and automatic playback (for FF version). Also, press the  button to perform automatic rewind and automatic playback (for FR version).
6. Select the function “TAPE A” or “TAPE B”
7. Press the  button while “TAPE A” or “TAPE B” is selected, to perform AMS check. “EDG ” is displayed. A number appears inside .
8. To exit from this mode, press  button to turn the set OFF.





[CD Ship Mode (LOCK)]

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






Procedure:

1. Press  button to turn the set ON.
2. Select the function “CD”.
3. Press  button and  button simultaneously.
4. The “STANDBY” display blinks instantaneously, and the CD ship mode is set.
5. To fluorescent indicator tube displays “LOCK”.

[CD Ship (LOCK) & COLD RESET MODE]**Procedure:**

1. Press  button to turn the set ON.
2. Select the function “CD”.
3. Press three buttons ,  and  simultaneously.
4. The “STANDBY” display blinks instantaneously and CD ship mode is set.
5. To fluorescent indicator tube displays “LOCK” and the set is reset.





[CD power -manage function]**Procedure:**

1. Press  button to the set ON
2. Select the function “CD”.
3. Press  button to turn the set OFF.
4. Press  and  buttons simultaneously, and the display of fluorescent indicator tube changes “CD POWER OFF” or “CD POWER ON”.
5. Press  button to turn the set OFF.

HCD-CP555/NXM1






[DISC Tray Lock]

Procedure:

1. Press  button to the set ON.
2. Select the function "CD".
3. Press  and  buttons simultaneously for 5 seconds.
And the displays of fluorescent indicator tube changes to "LOCKED" or "UNIOCKED".
4. Press  button to turn the set OFF.






[CD Repeat 5 Times Limit Release Mode]

Procedure:

1. Press  button to turn the set ON.
2. Select the function "CD".
3. Press three buttons ,  and  simultaneously.
4. The message "LIMIT OFF" is displayed.
5. Press  button the set OFF.

[AMP TEST MODE]

Procedure:

1. Press  button to turn the set ON.
2. To enter the test mode, press three buttons ,  and  simultaneously.
3. Display will changes "VACS ON" to "VACS OFF".
4. Press  button to turn the set OFF.

SECTION 5 MECHANICAL ADJUSTMENTS

Precaution

1. Clean the following parts with a denatured alcohol-moistened swab:
 record/playback heads pinch rollers
 erase head rubber belts
 capstan 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	3.06 N • m to 6.96 N • m 31 to 71 g • cm (0.43 – 0.98 oz • inch)
FWD back tension	CQ-102C	0.19 N • m to 0.58 N • m 2 to 6 g • cm (0.02 – 0.08 oz • inch)
REV	CQ-102RC	3.06 N • m to 6.96 N • m 31 to 71 g • cm (0.43 – 0.98 oz • inch)
REV back tension	CQ-102RC	0.19 N • m to 0.58 N • m 2 to 6 g • cm (0.02 – 0.08 oz • inch)
FF/REW	CQ-201B	6.96 N • m to 14.02 N • m 71 to 143 g • cm (0.98 – 1.99 oz • inch)
FWD tension	CQ-403A	9.80 N • m 100 g or more (3.53 oz or more)
REV tension	CQ-403R	9.80 N • m 100 g or more (3.53 oz or more)

SECTION 6 ELECTRICAL ADJUSTMENTS

DECK SECTION

0 dB=0.775 V

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

- Test Tape

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

RECORD/PLAYBACK HEAD AZIMUTH ADJUSTMENT

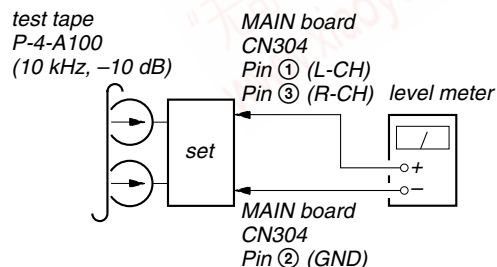
DECK A

DECK B

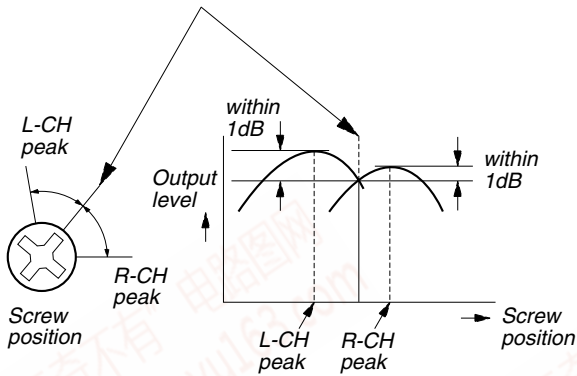
Note: Perform this adjustments for both decks

Procedure:

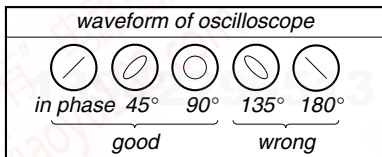
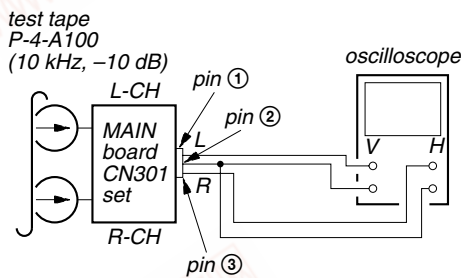
1. Mode: Playback



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

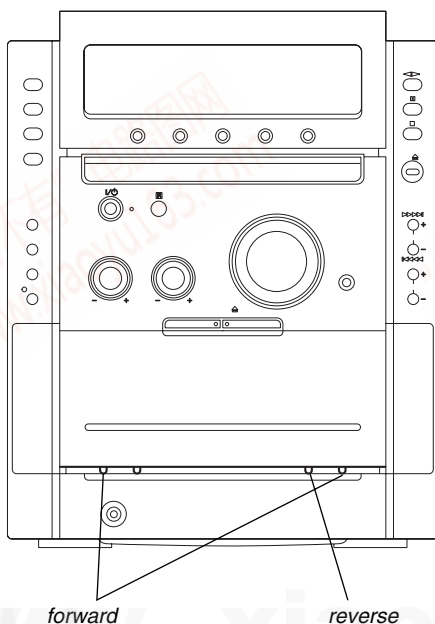


- Mode: Playback



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

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



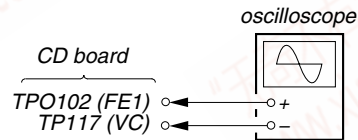
CD SECTION

Note:

- CD Block is basically designed to operate without adjustment. Therefore, check each item in order given.
- Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
- Use an oscilloscope with more than 10MW impedance.
- 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

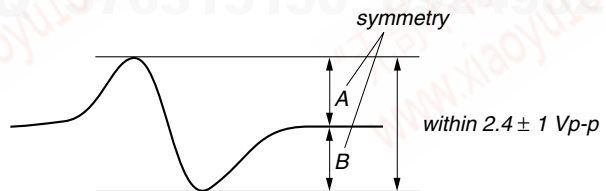
Connection:



Procedure:

- Connect an oscilloscope to test point TPO102 (FE1) and TP 117(VC) on the CD board.
- Turn the power on.
- Put the disc (YEDS-18) in and turned power switch on again and actuate the focus search. (actuate the focus search when disc table is moving in and out)
- Check the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 2.4 ± 1 Vp-p.

S-curve waveform



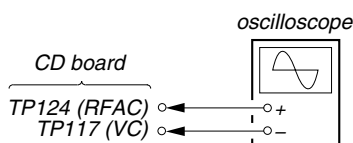
Note:

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

Checking Location: CD board (SIDE B)
(See page 20.)

RFAC Level Check

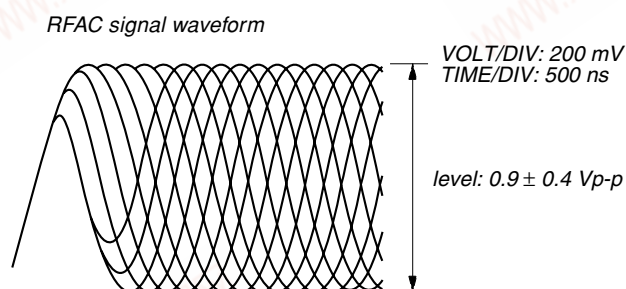
Connection:



Procedure:

1. Connect an oscilloscope to test point TP124 (RFAC) and TP117(VC) on the CD board.
2. Turn the power on.
3. Put the disc (YEDS-18) in to playback the number five track.
4. Confirm that oscilloscope waveform is clear and check RFAC signal level is correct or not.

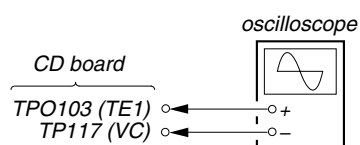
Note: A clear RFAC signal waveform means that the shape “ ϕ ” can be clearly distinguished at the center of the waveform.



Checking Location: CD board (SIDE B)
(See page 20.)

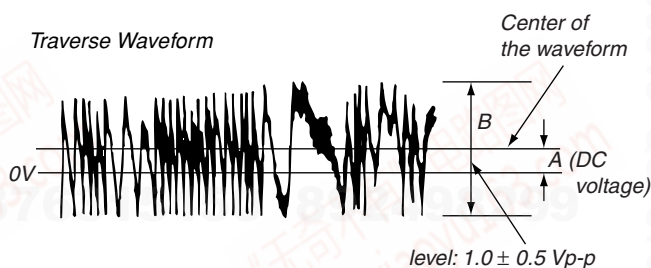
E-F Balance Check

Connection:



Procedure:

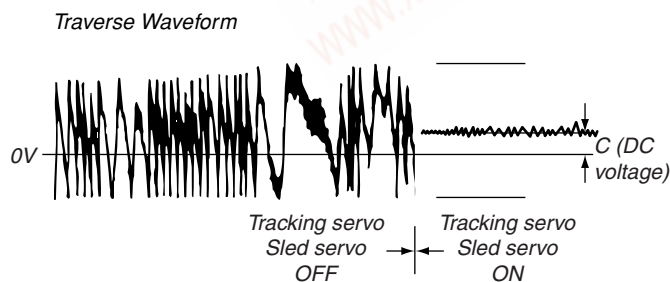
1. Connect an oscilloscope to test point TPO103 (TE1) and TP117 (VC) on the CD board.
2. Turn the power on.
3. Select the function “CD”.
4. Press three buttons of [ENTER], [▶▶], and [SURROUND MODE] simultaneously to set the CD service mode.
5. Put the disc (YEDS-18) in to playback the number five track.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



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

Notes:

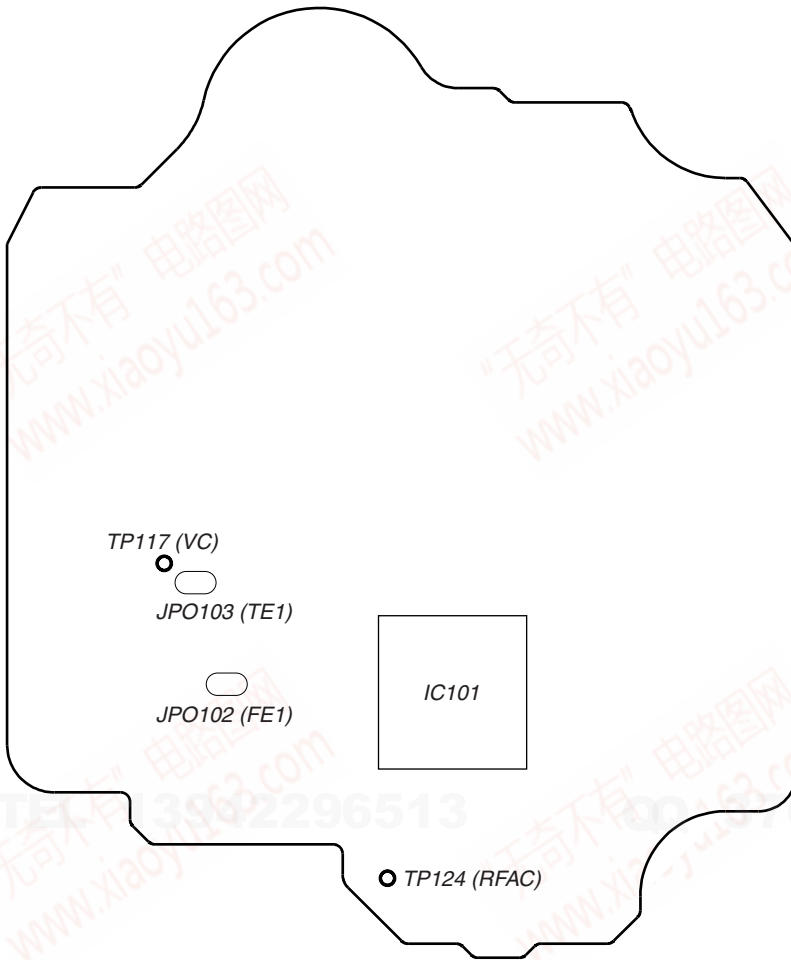
- Always move the optical pick-up to most inside track when exiting from this mode. Otherwise, a disc will not be unloaded.
- Do not run the sled motor excessively, otherwise the gear can be chipped.



Checking Location: CD board (SIDE B) (See page 20.)



Checking Location:

– CD BOARD (SIDE B) –













SECTION 7 DIAGRAMS

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.
 - % : indicates tolerance.
 - Δ : internal component.
 -  : nonflammable resistor.
 -  : fusible resistor.

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

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

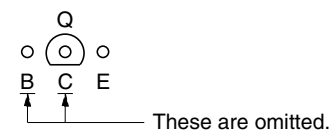
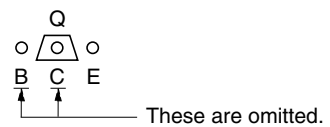
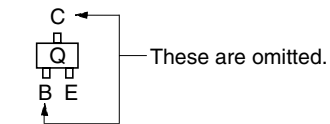
- Abbreviation
- E3 : 240V AC Area in E model
- E51 : Chilean and Peruvian model
- EA : Saudi Arabia model
- RU : Russian model

Note on Printed Wiring Boards:

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

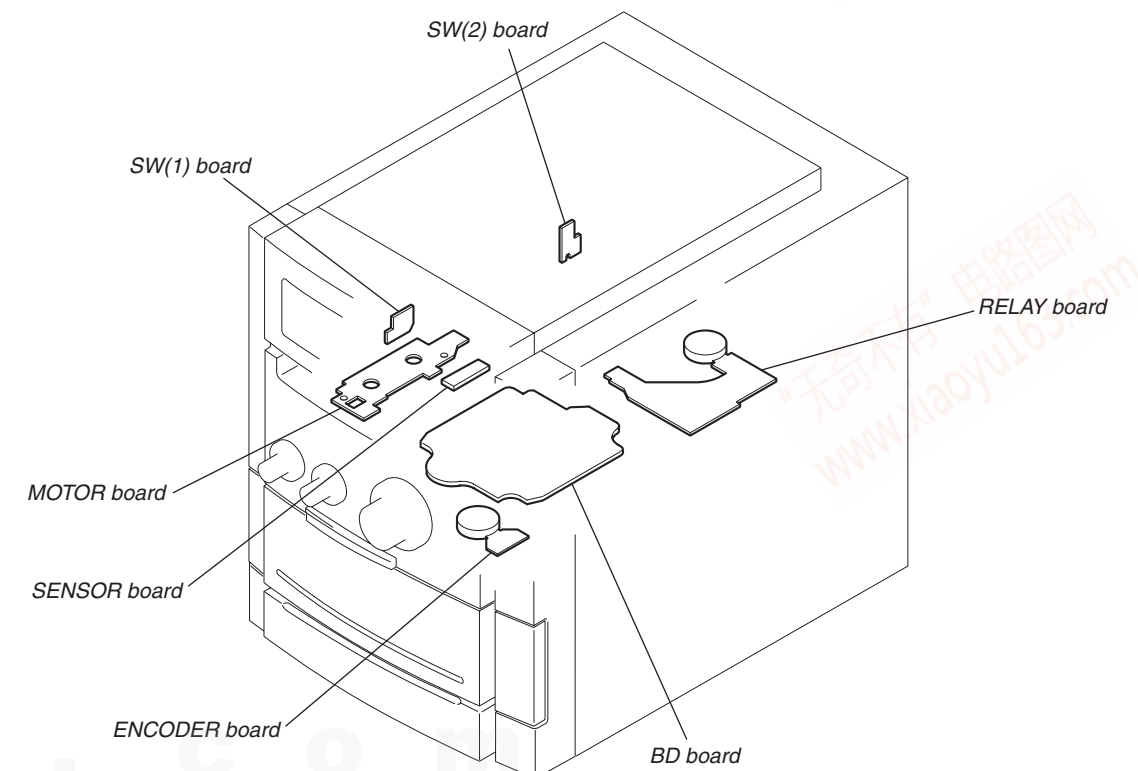
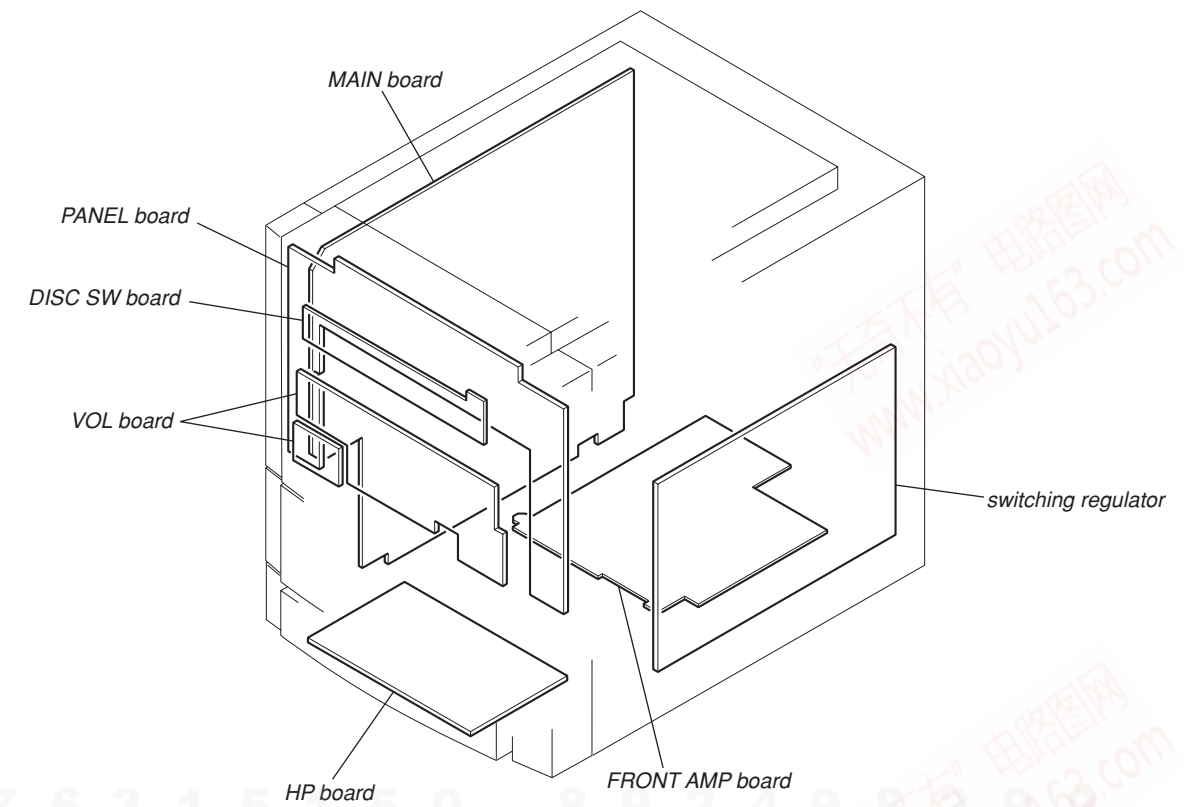
Caution:
Parts face side: Parts on the parts face side seen from the parts face are indicated.
Pattern face side: Parts on the pattern face side seen from the pattern face are indicated.

- Indication of transistor.



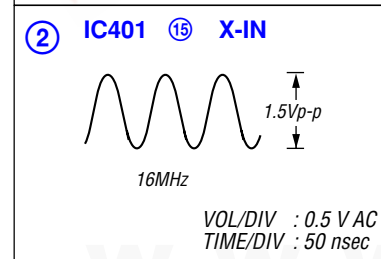
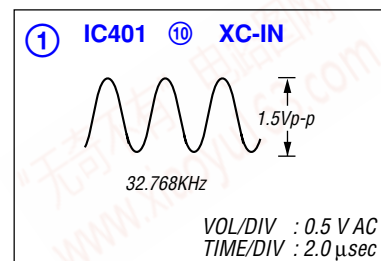
- Abbreviation
- E3 : 240V AC Area in E model
- E51 : Chilean and Peruvian model
- EA : Saudi Arabia model
- RU : Russian model

7-1. CIRCUIT BOARD LOCATION

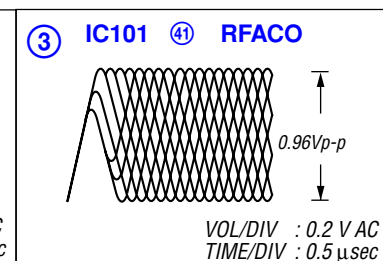
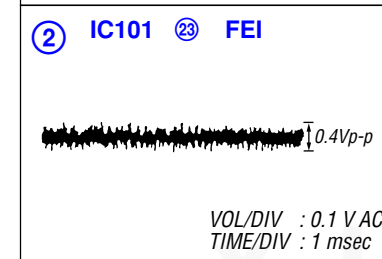
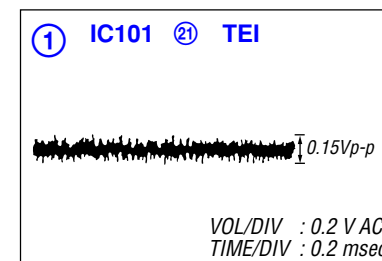


• WAVEFORMS

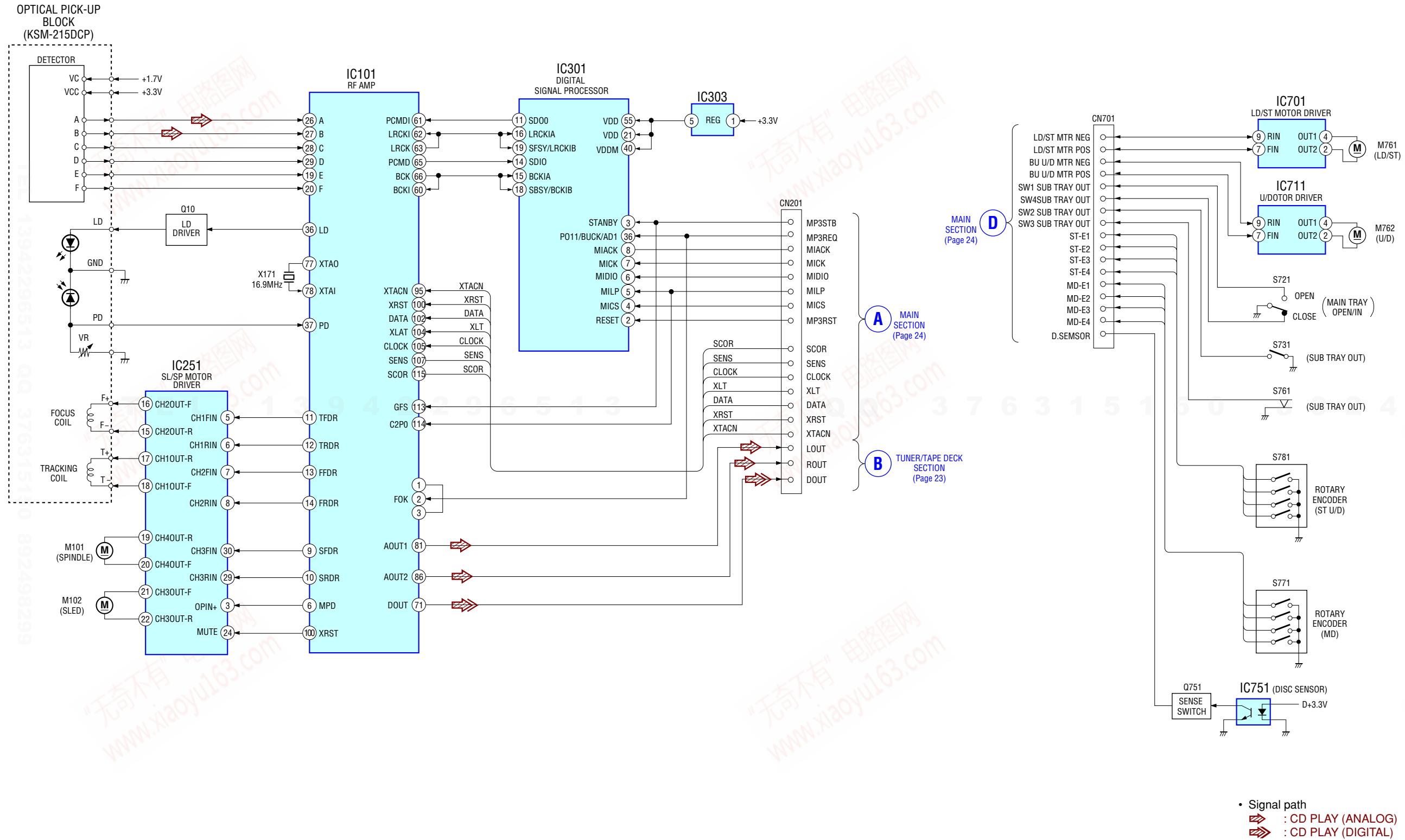
– MAIN BOARD –



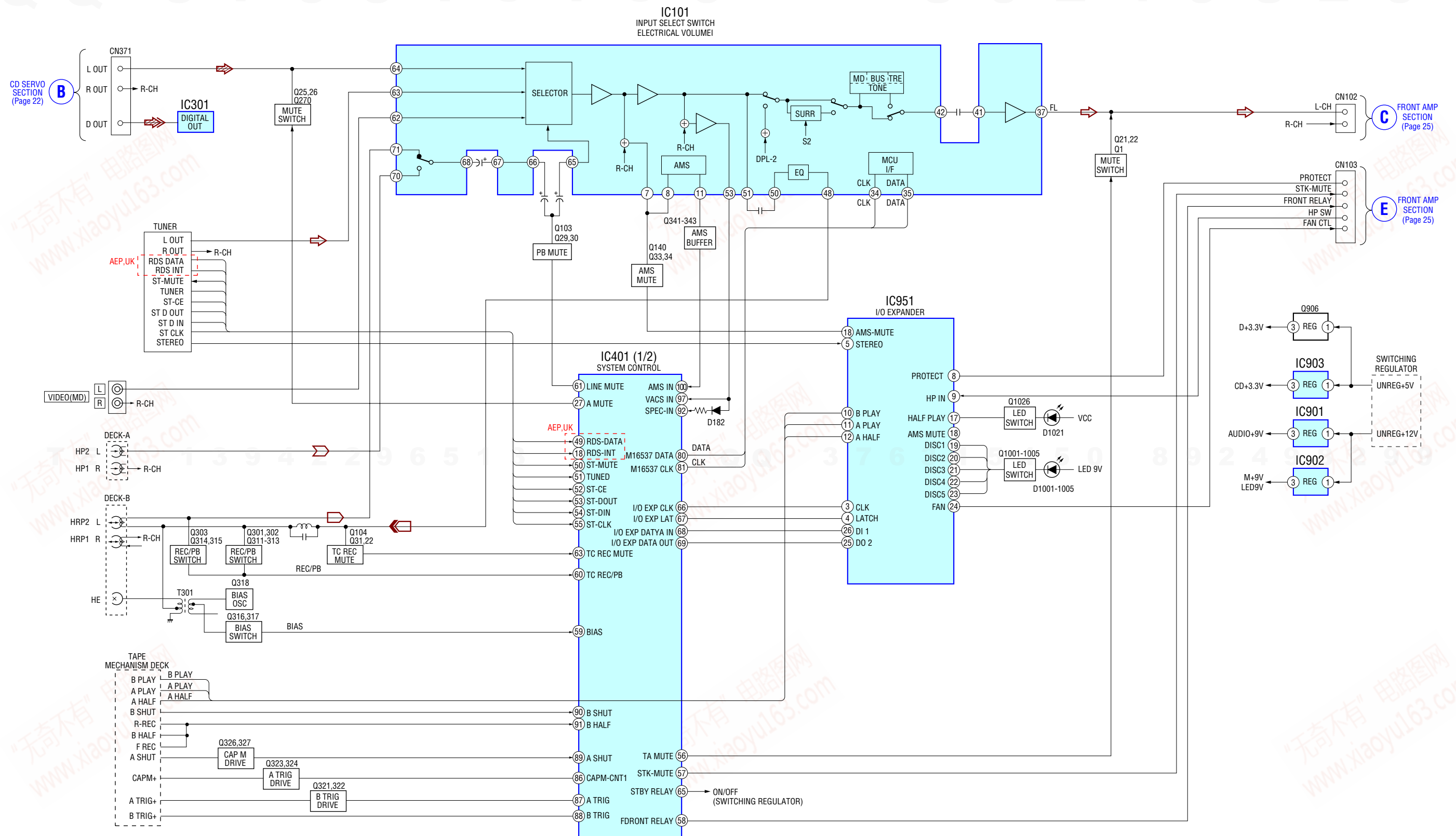
– BD BOARD –



7-2. BLOCK DIAGRAM - CD SERVO SECTION -

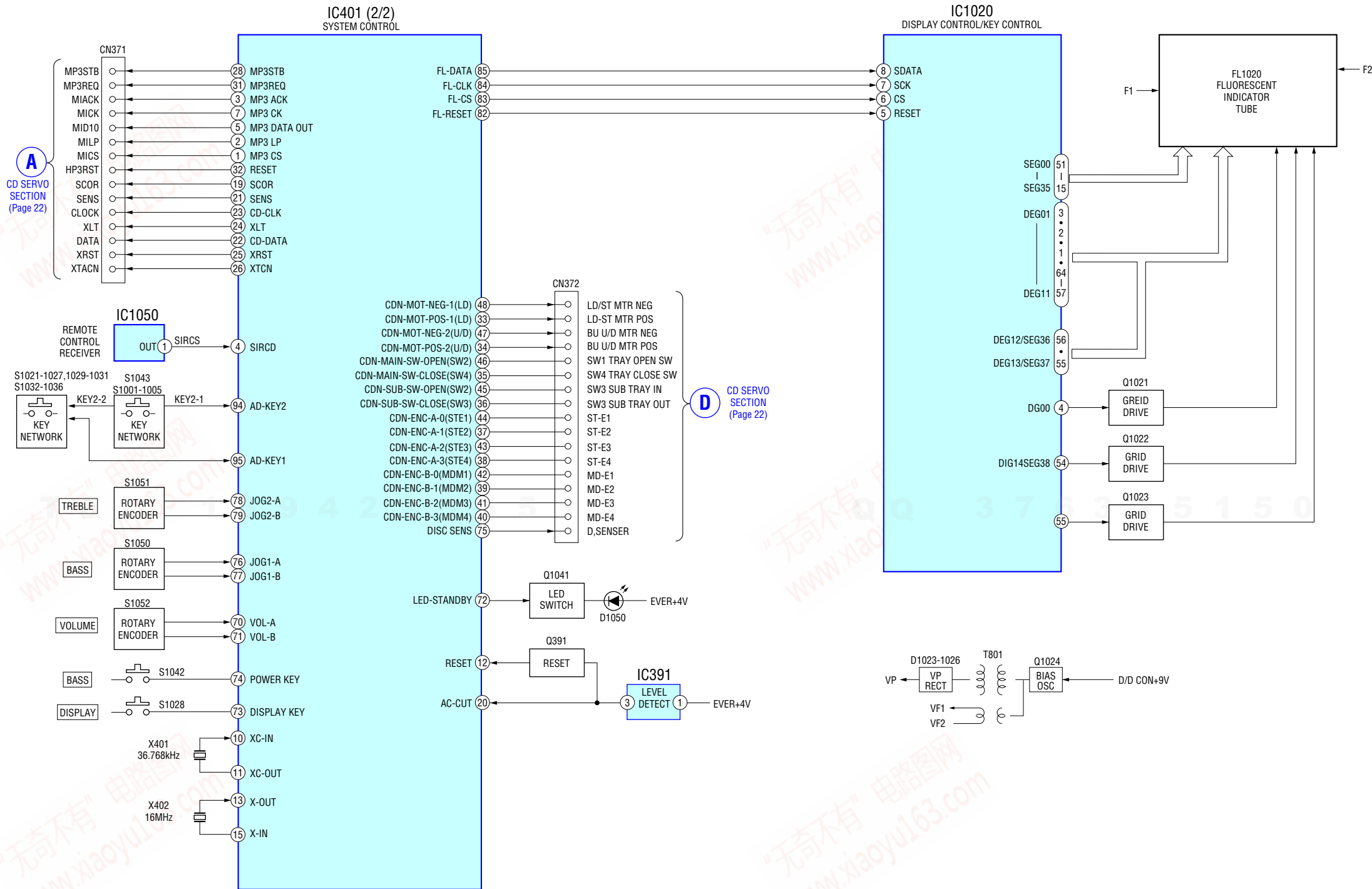


7-3. BLOCK DIAGRAM - TUNER/TAPE DECK SECTION -



- R-ch is omitted due to same as L-ch.
- Signal path
 - : TUNER (FM/AM)
 - - - : PLAYBACK (DECK A)
 - ⋯ : PLAYBACK (DECK B)
 - ⋯ : RECORD
 - == : CD PLAY (ANALOG)
 - == : CD PLAY (DIGITAL)

7-4. BLOCK DIAGRAM – MAIN SECTION –



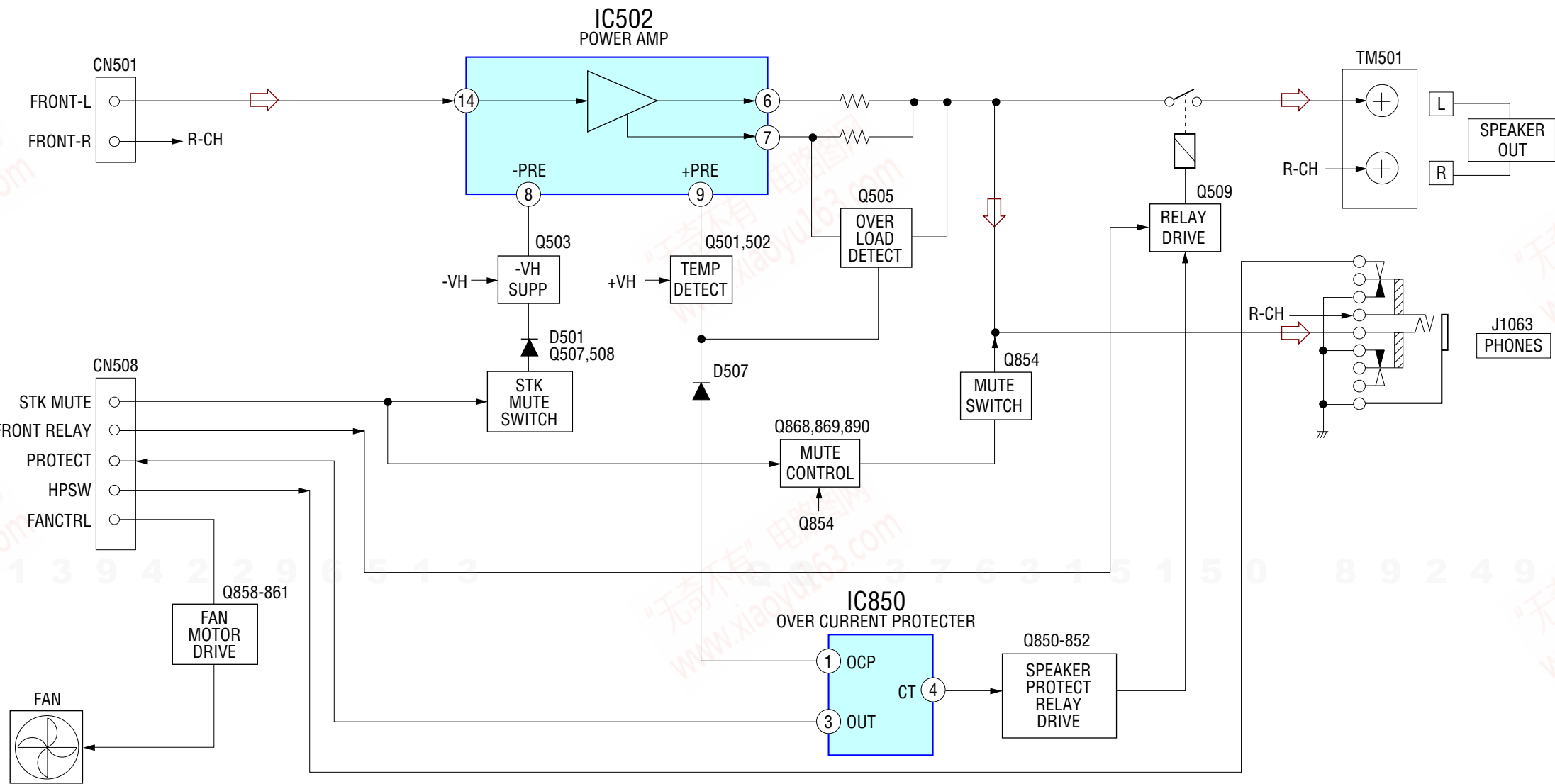
TEL 13942296513 QQ 376315150 892498299

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7-5. BLOCK DIAGRAM - FRONT AMP SECTION -

MAIN SECTION (Page 23) C

MAIN SECTION (Page 23) E

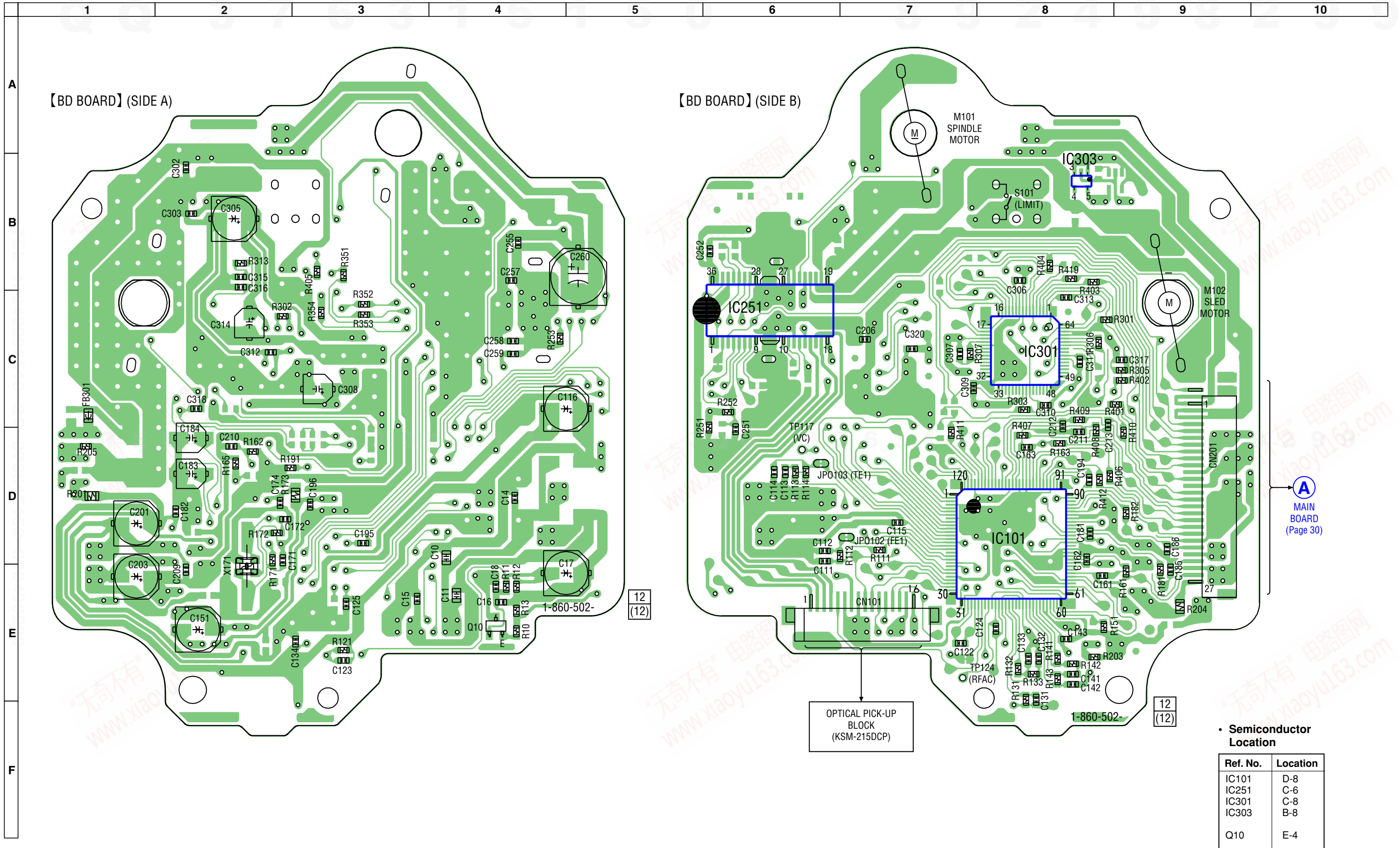


- R-ch is omitted due to same as L-ch.
- Signal path
- ⇒ :AUDIO

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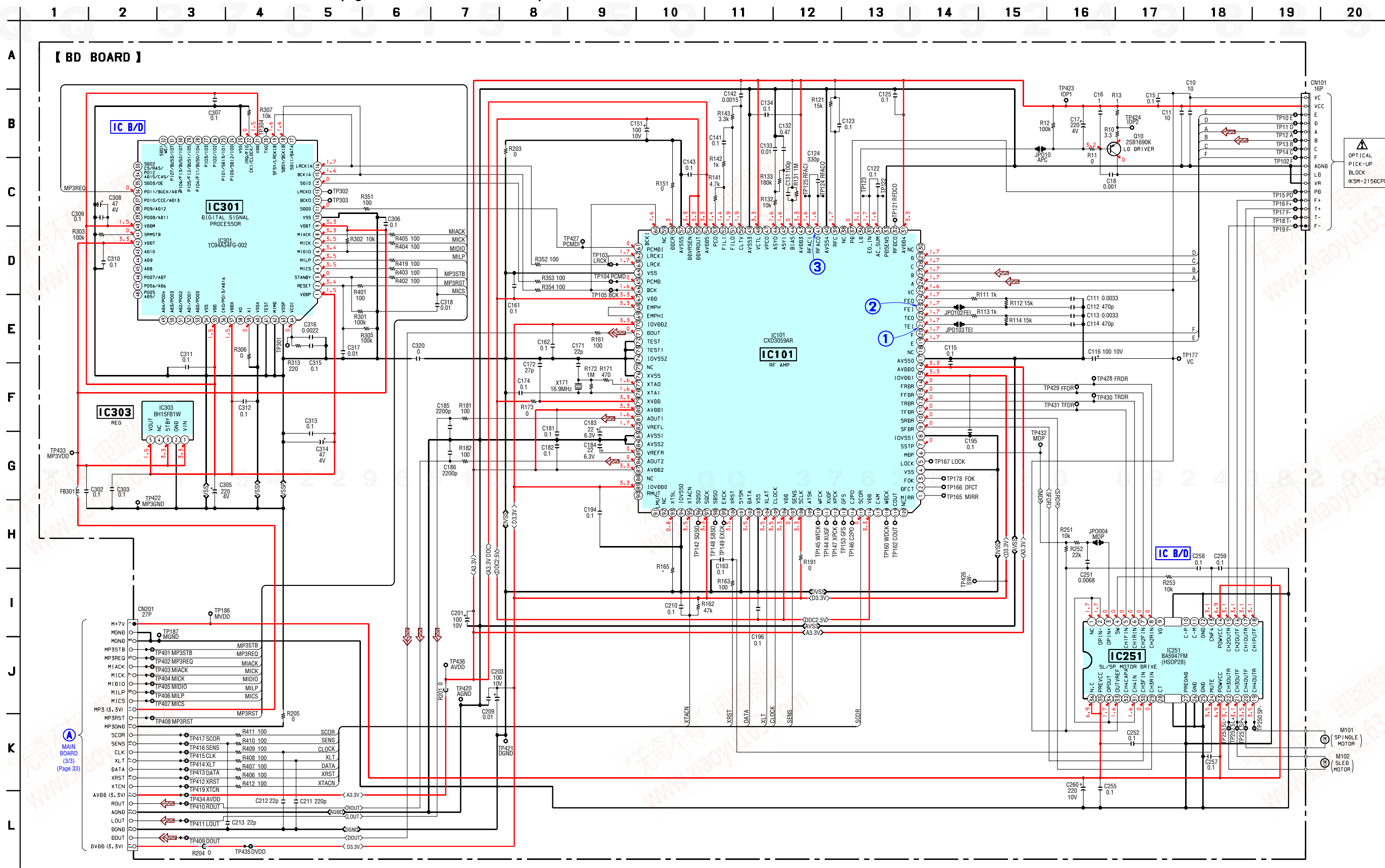
7-6. PRINTED WIRING BOARD – BD SECTION – • See page 21 for Circuit Boards Location.



• Semiconductor Location

Ref. No.	Location
IC101	D-8
IC251	C-6
IC301	C-8
IC303	B-8
Q10	E-4

7-7. SCHEMATIC DIAGRAM – BD BOARD – • See page 41 for IC Pin Function Description.

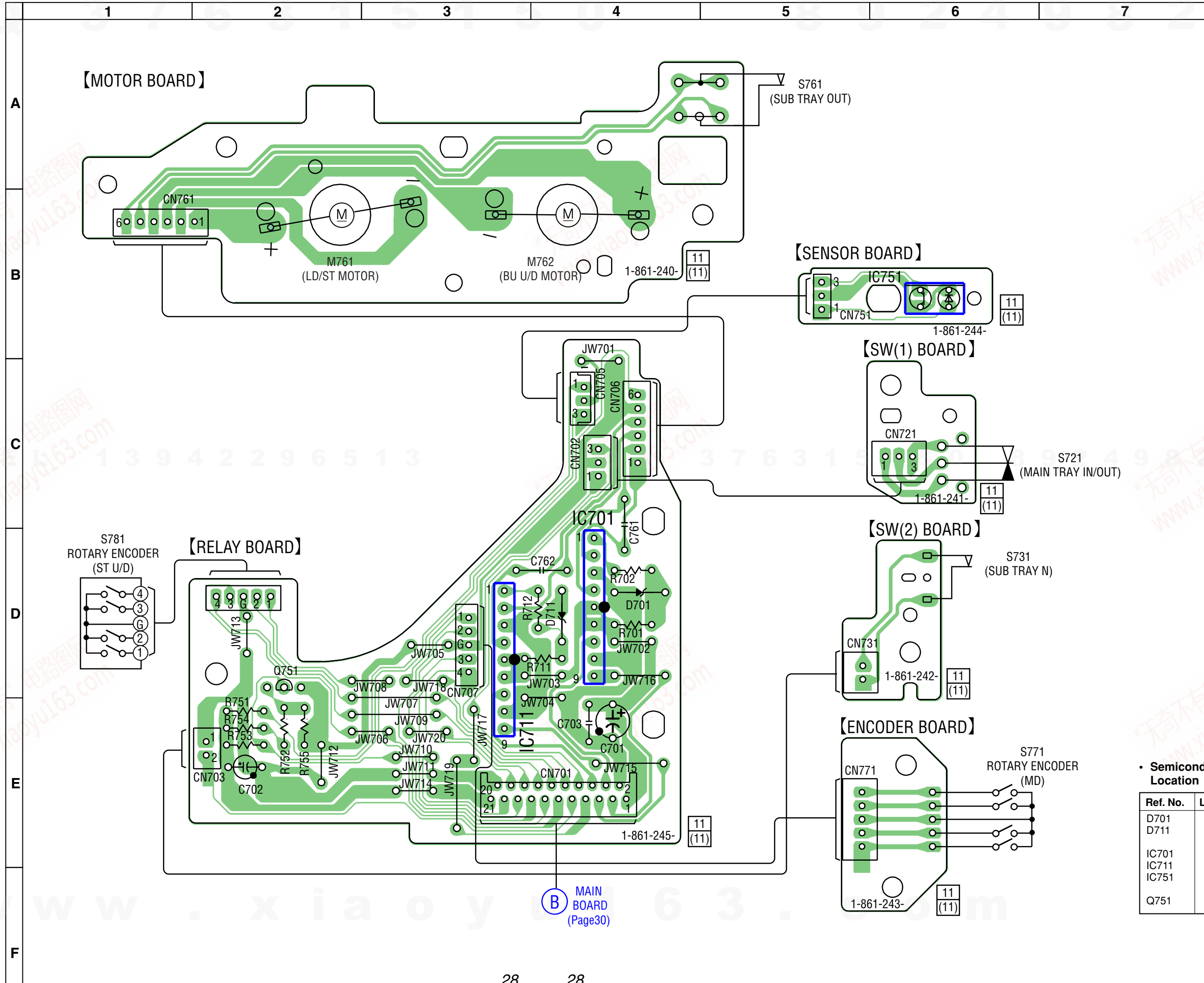


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7-8. PRINTED WIRING BOARD – CD MECHANISM BOARD – • See page 21 for Circuit Boards Location.



• Semiconductor Location

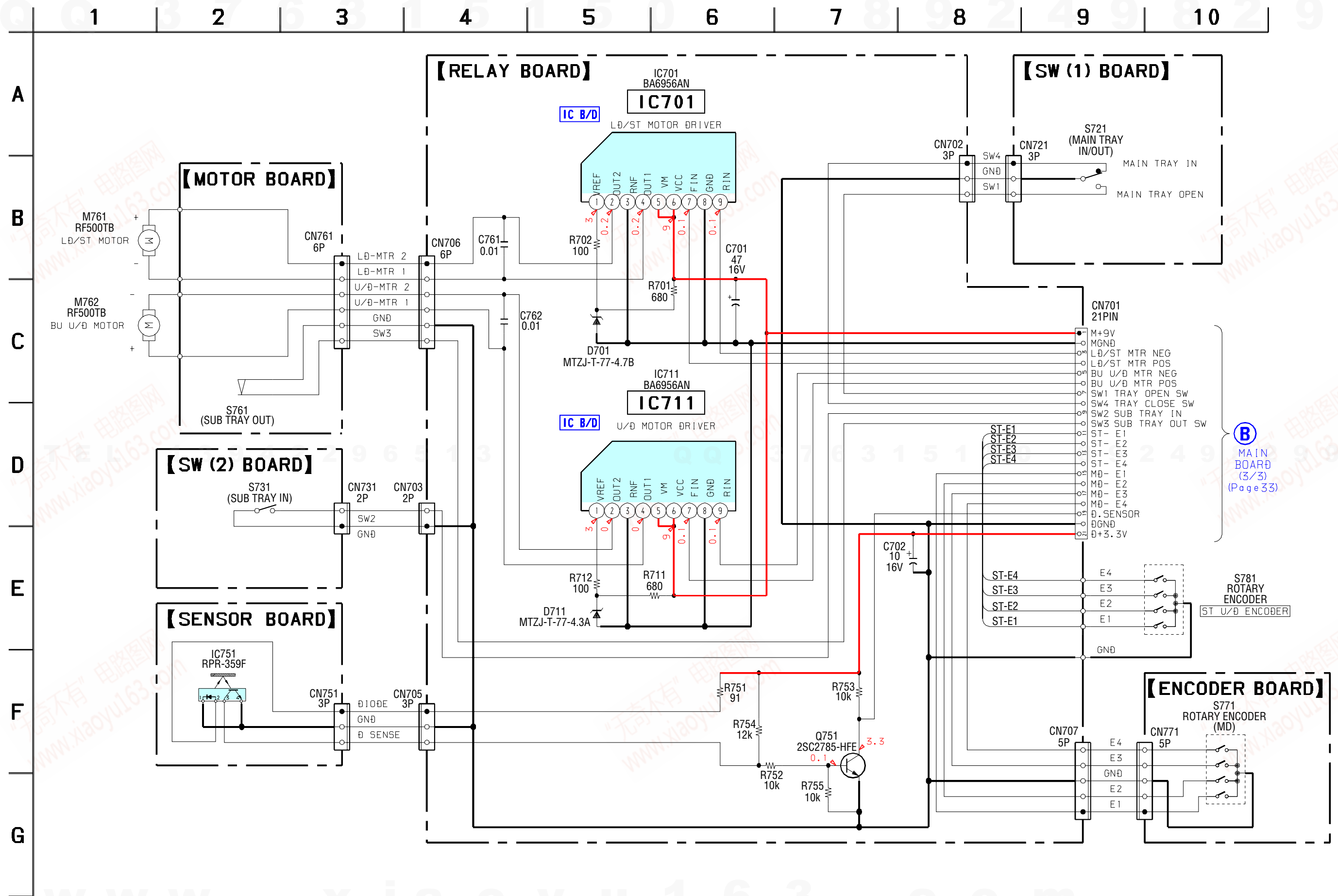
Ref. No.	Location
D701	D-4
D711	D-4
IC701	D-4
IC711	E-3
IC751	B-6
Q751	D-2

(B) MAIN BOARD (Page 30)

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TEL: 13942296513 QQ: 376315150 892498299

7-9. SCHEMATIC DIAGRAM - CD MECHANISM BOARD -

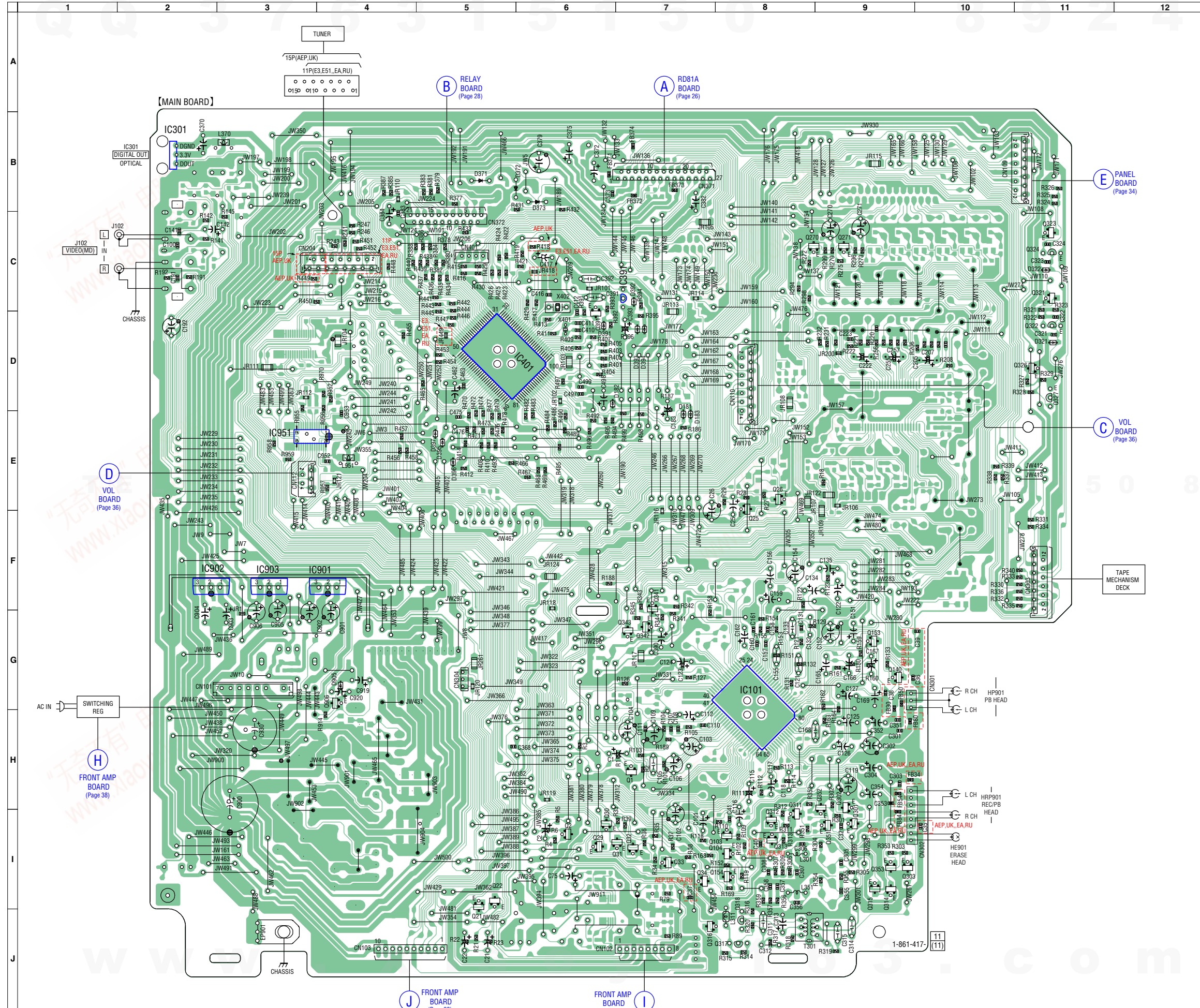


MAIN BOARD (3/3) (Page 33)

TEL: 13942296513 QQ: 376315150 892498299

TEL: 13942296513 QQ: 376315150 892498299

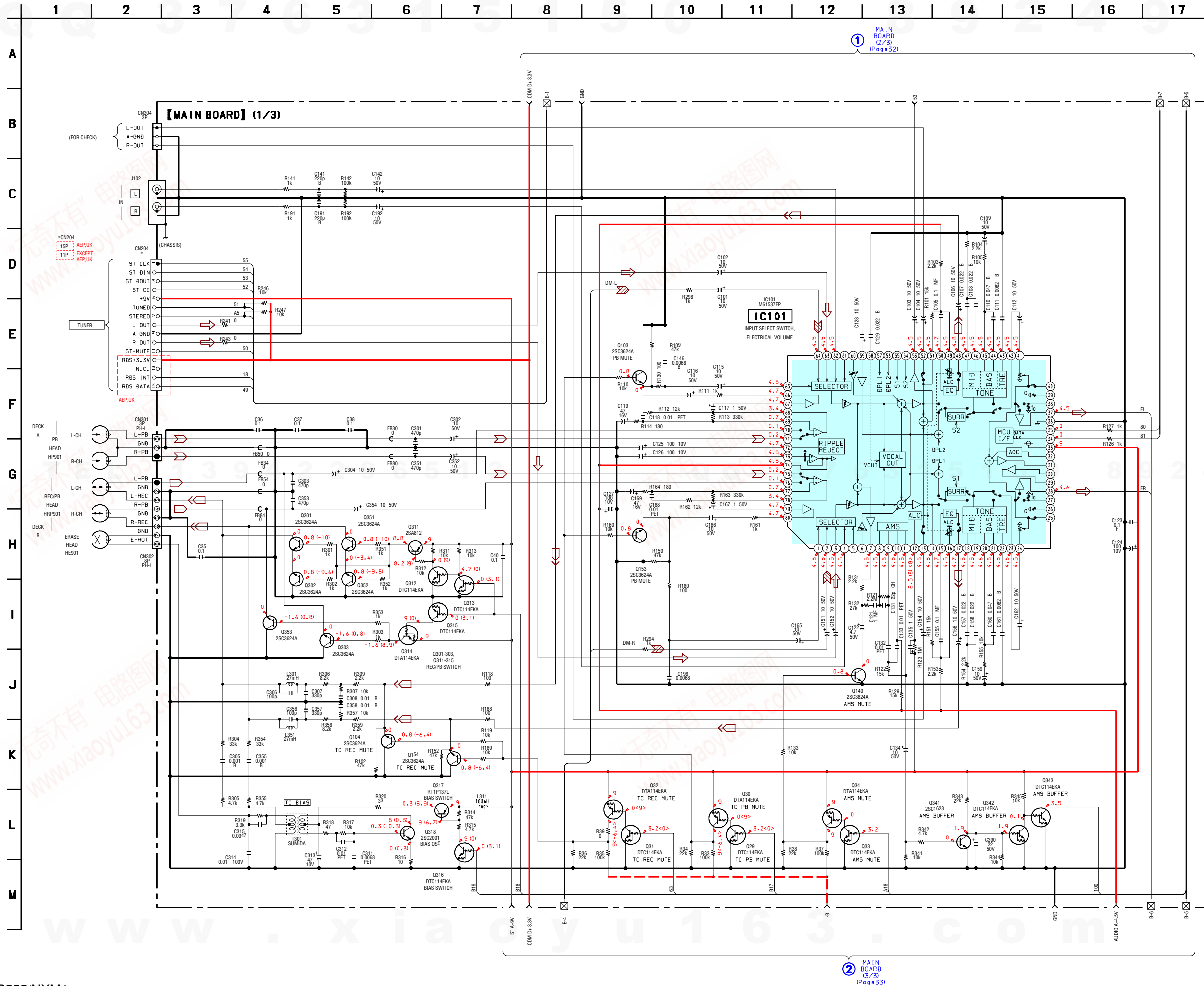
7-10. PRINTED WIRING BOARD – MAIN BOARD – • See page 21 for Circuit Boards Location.



• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D181	E-7	Q31	I-6
D182	D-6	Q32	I-7
D183	E-7	Q33	I-7
D321	D-11	Q34	I-7
D322	C-11	Q103	I-8
D371	B-5	Q104	I-8
D372	B-5	Q140	G-9
D373	B-6	Q153	G-9
D391	D-6	Q154	I-8
D392	C-7	Q270	C-8
D393	D-7	Q271	C-9
D394	D-7	Q301	I-9
D395	E-5	Q302	H-9
D396	E-5	Q303	I-9
D397	E-5	Q311	I-8
D903	B-10	Q312	I-8
D904	F-2	Q313	I-8
D905	G-4	Q314	I-9
		Q315	I-9
IC101	G-8	Q316	J-7
IC301	B-2	Q317	J-8
IC391	C-7	Q318	J-8
IC401	D-6	Q321	C-11
IC901	F-4	Q322	D-11
IC902	F-2	Q323	C-11
IC903	F-3	Q324	C-11
IC951	E-3	Q326	D-11
		Q327	D-11
Q1	H-7	Q341	F-7
Q2	I-6	Q342	G-7
Q21	I-5	Q343	G-7
Q22	I-5	Q351	I-9
Q25	E-8	Q352	H-9
Q26	E-8	Q353	I-9
Q29	I-6	Q391	D-6
Q30	I-6	Q906	G-4

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

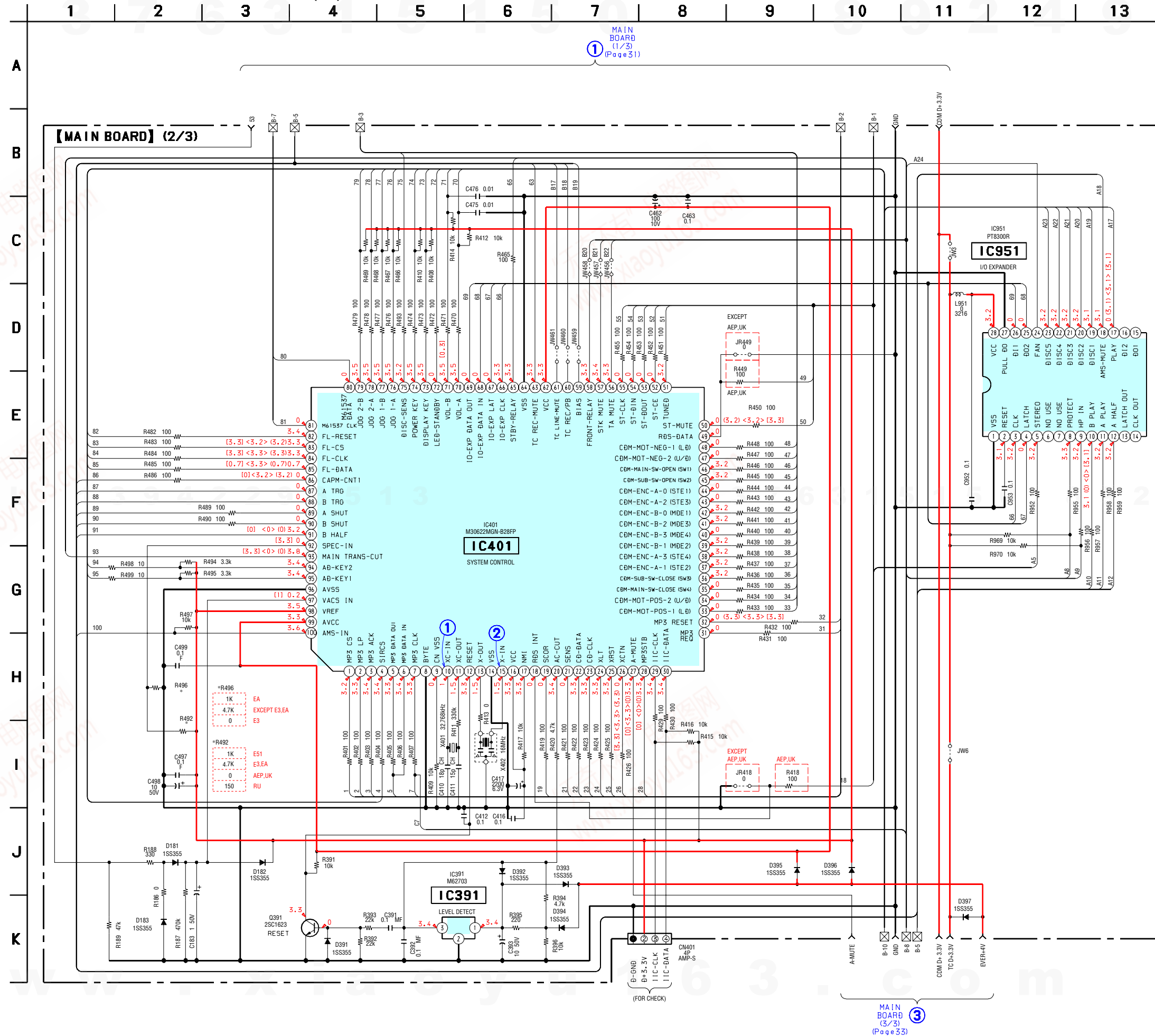


① MAIN BOARD (2/3) (Page 52)

② MAIN BOARD (3/3) (Page 53)

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

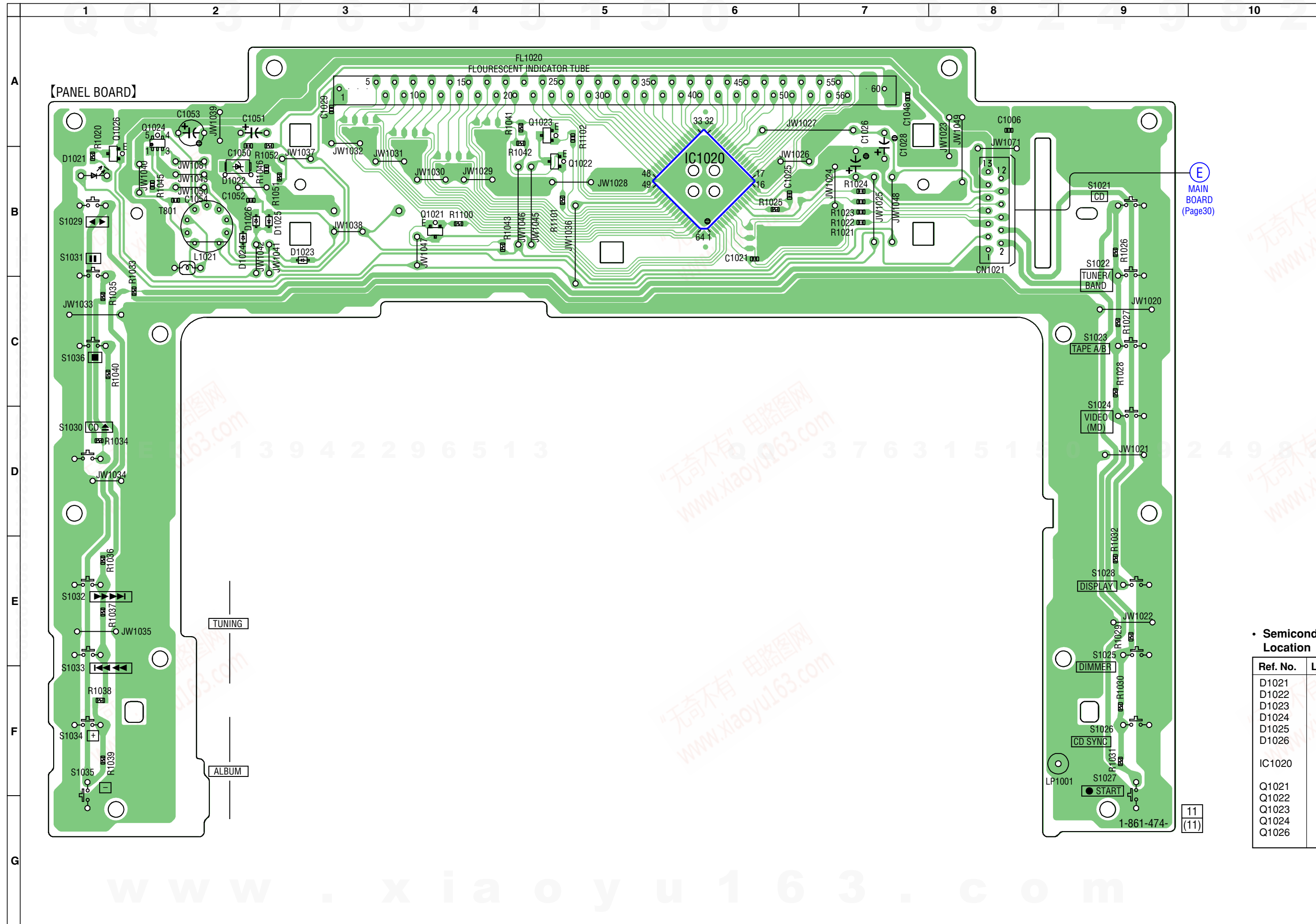
• See page 44 for IC Pin Function Description.



TEL: 13942296513 QQ: 376315150 892498299

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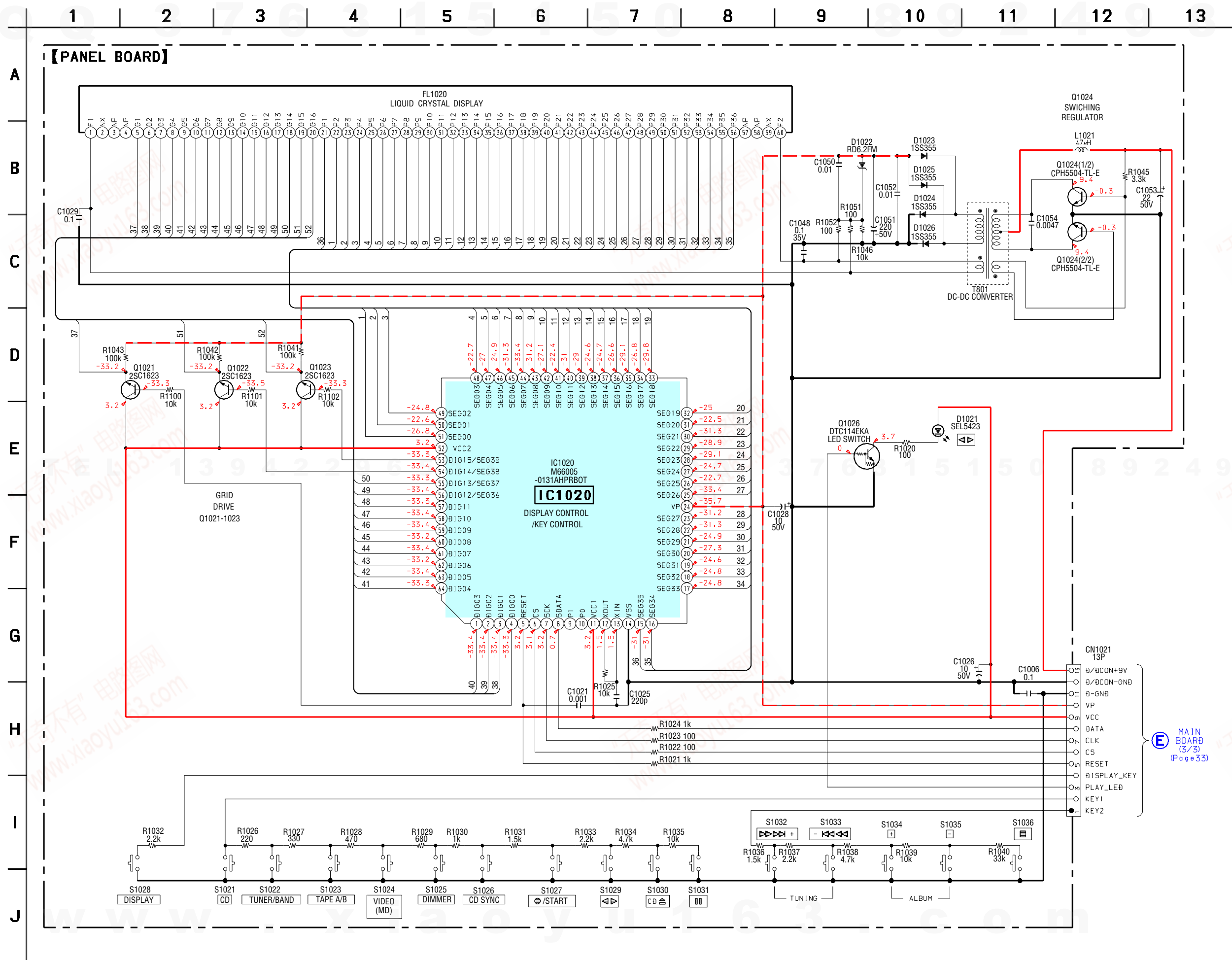
7-14. PRINTED WIRING BOARD – PANEL BOARD – • See page 21 for Circuit Boards Location.



• Semiconductor Location

Ref. No.	Location
D1021	B-1
D1022	B-2
D1023	B-3
D1024	B-2
D1025	B-2
D1026	B-2
IC1020	B-6
Q1021	B-4
Q1022	B-5
Q1023	A-5
Q1024	A-2
Q1026	B-1

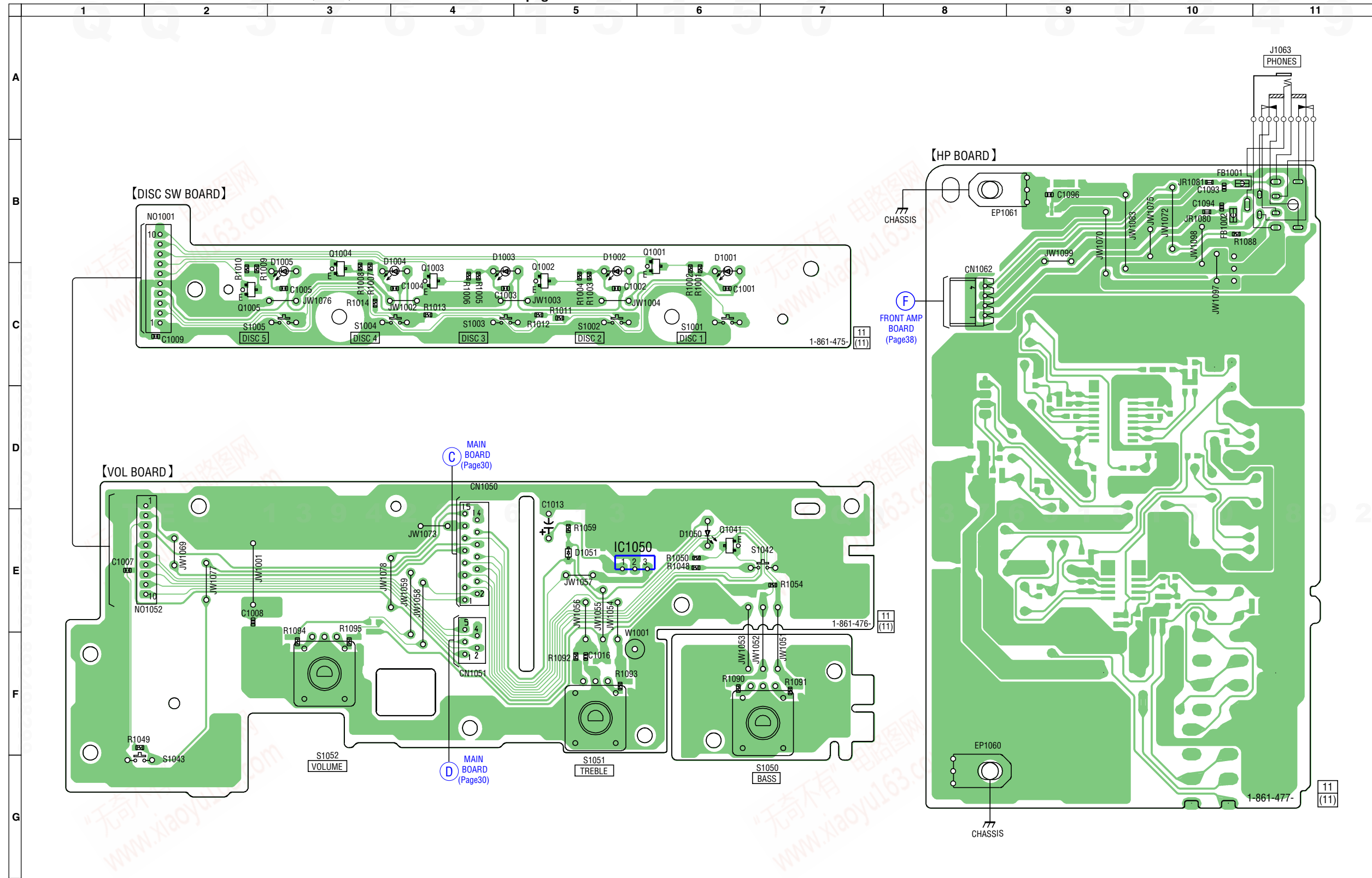
7-15. SCHEMATIC DIAGRAM - PANEL BOARD -



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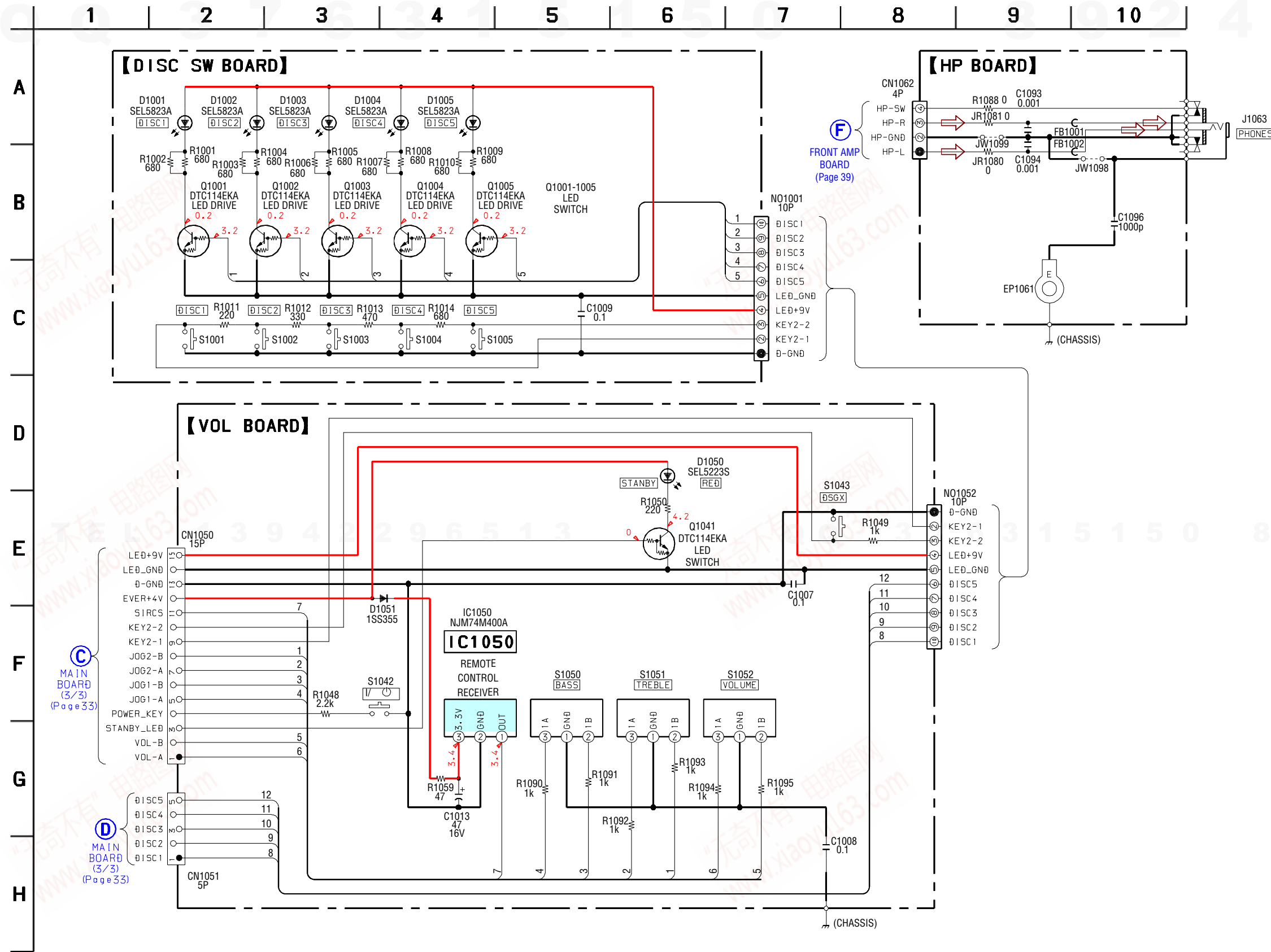
7-16. PRINTED WIRING BOARD – DISC SW, VOL, HP BOARD – • See page 21 for Circuit Boards Location.



• Semiconductor Location

Ref. No.	Location
D1001	C-6
D1002	C-5
D1003	C-4
D1004	C-4
D1005	C-3
D1050	E-6
D1051	E-5
IC1050	E-5
Q1001	B-6
Q1002	C-5
Q1003	C-4
Q1004	C-3
Q1005	C-2
Q1041	E-6

7-17. SCHEMATIC DIAGRAM – DISC SW, VOL, HP BOARD –

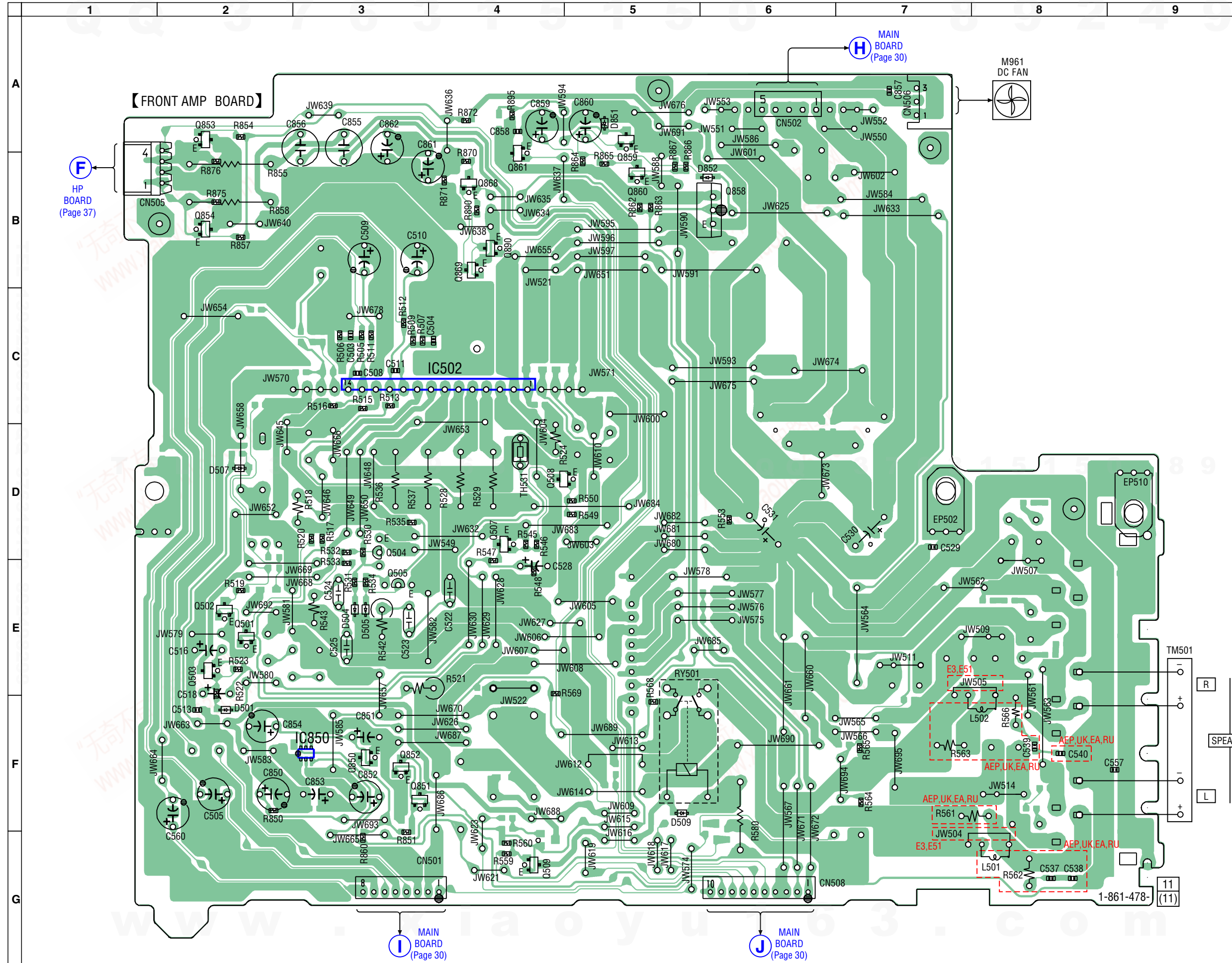


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7-18. PRINTED WIRING BOARD – FRONT AMP BOARD –

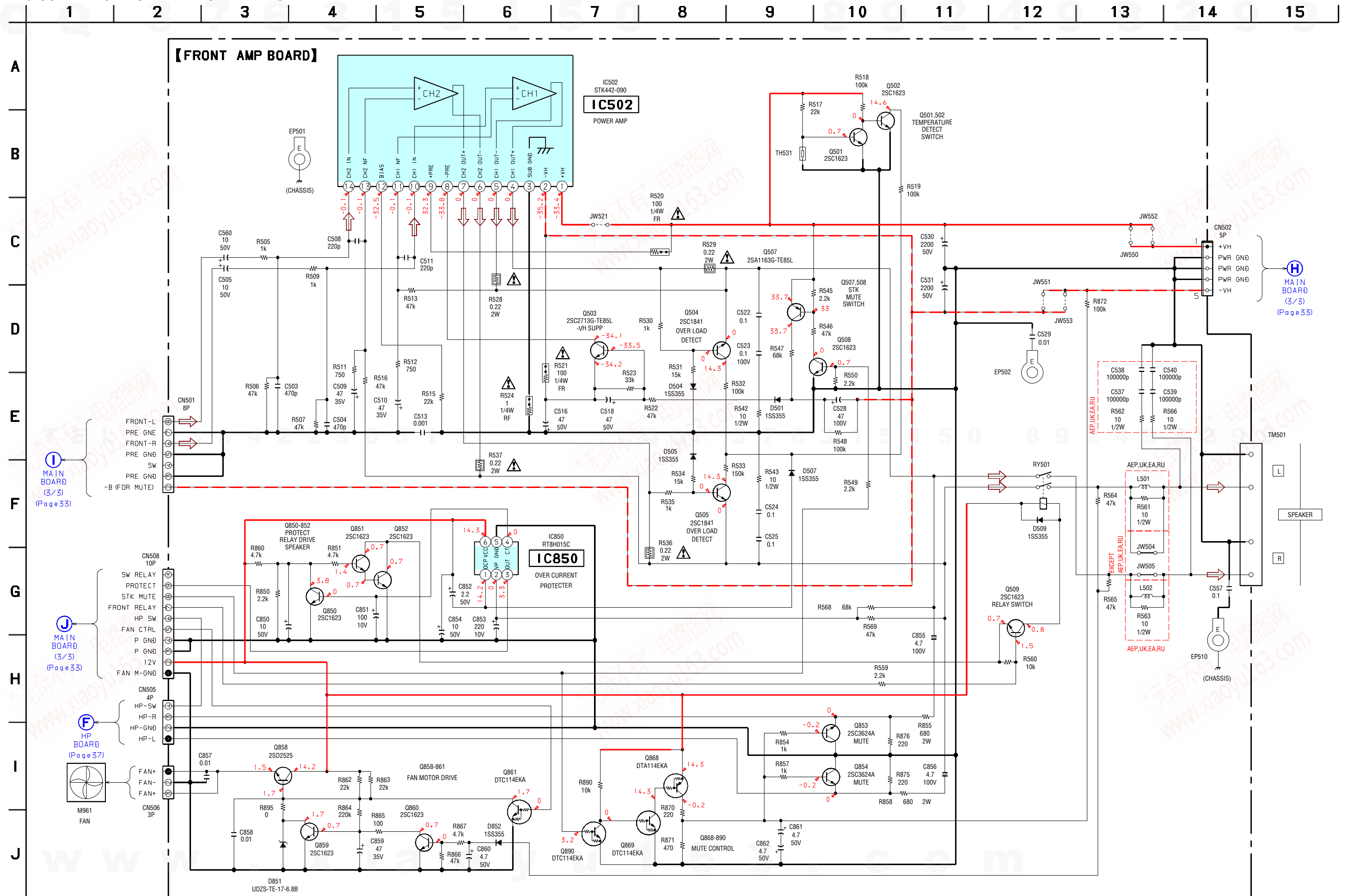
• See page 21 for Circuit Boards Location.



• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D501	F-2	Q505	E-3
D504	E-3	Q507	D-4
D505	E-3	Q508	D-4
D507	D-2	Q509	G-4
D508	G-6	Q850	F-3
D509	F-5	Q851	F-3
D851	A-5	Q852	F-3
D852	D-6	Q853	A-2
		Q854	B-2
IC502	C-4	Q858	B-6
IC850	F-3	Q859	A-5
		Q860	B-5
Q501	E-2	Q861	B-4
Q502	E-2	Q868	B-4
Q503	E-2	Q869	B-4
Q504	D-3	Q890	B-4

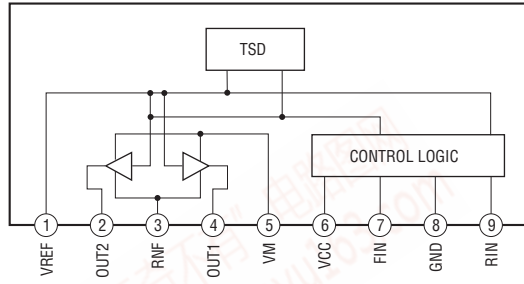
7-19. SCHEMATIC DIAGRAM - FRONT AMP BOARD -



7-20. IC Block Diagram

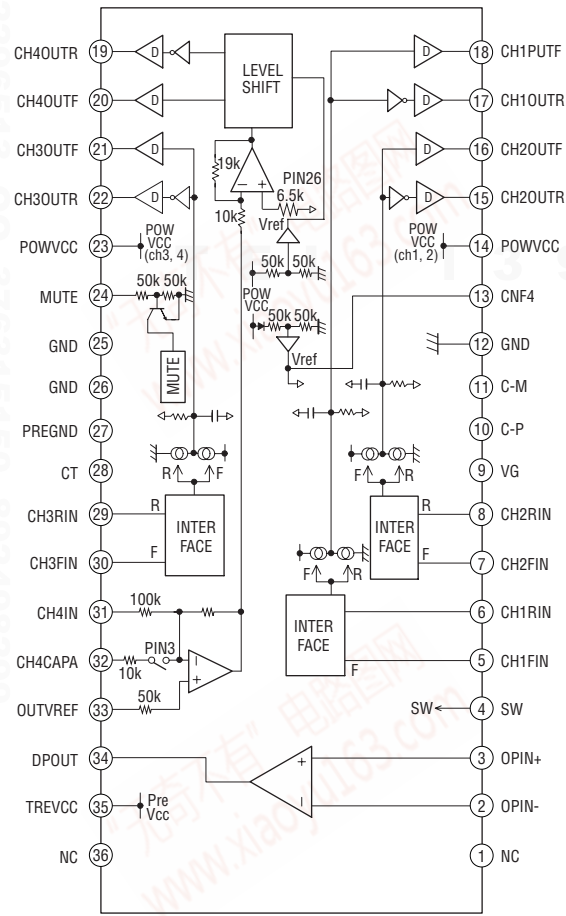
- RELAY Board -

IC701, 711 BA6956AN



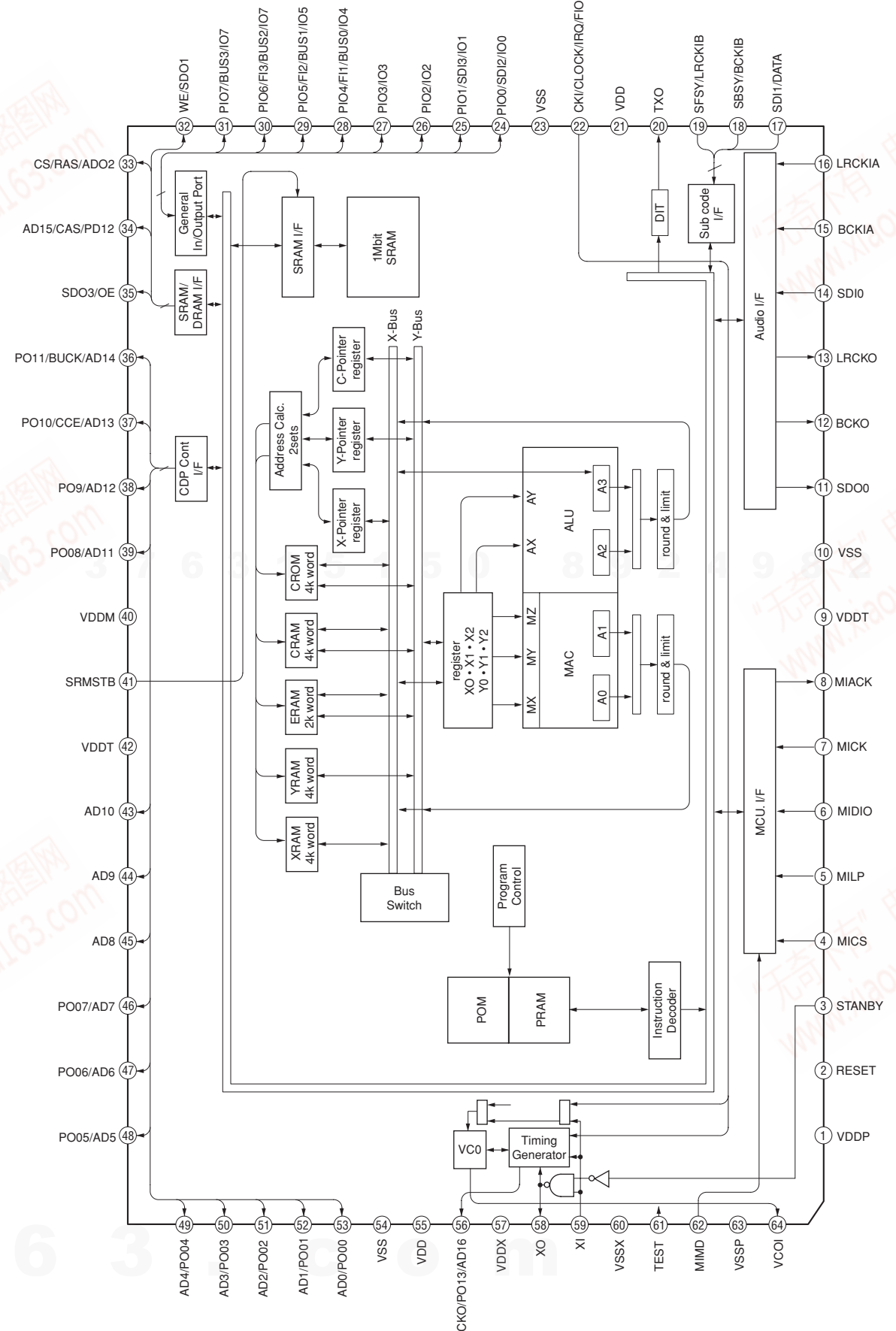
- BD Board -

IC251 BA5947FM



- BD Board -

IC301 TC94A34FG-002



7-21. IC Pin Function Descriptions
• IC101 CXD3059AR (RF AMP) (BD BOARD)

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

HCD-CP555/NXM1

Pin No.	Pin Name	I/O	Description
49	AVSS3	—	Analog ground
50	CLTV	I	Multiplier VCO1 control voltage input
51	FILO	O	Master PLL (slave = digital PLL) filter output
52	FILI	I	Master PLL filter input
53	PCO	O	Master PLL charge pump output
54	AVDD5	—	Analog power supply
55	DDVROUT	O	DC/DC converter output
56	DDVRSEN	I	DC/DC converter output voltage monitor input
57	AVSS5	—	Analog ground
58	DDCR	I	DC/DC converter reset input
59	NC	—	Not used
60	BCKI	I	D/A interface bit clock input
61	PCMDI	I	D/A interface serial data input (2's COMP, MSB first)
62	LRCKI	I	D/A interface LR clock input
63	LRCK	O	D/A interface LR clock output $f = F_s$
64	VSS	—	Internal digital ground
65	PCMD	O	D/A interface serial data output (2's COMP, MSB first)
66	BCK	O	D/A interface bit clock output
67	VDD	—	Internal digital power supply
68	EMPH	O	High when the playback disc has emphasis, low it has not
69	EMPHI	I	High when de-emphasis is ON, low when input OFF
70	IOVDD2	—	I/O digital power supply
71	DOUT	O	Digital Out output
72	TEST	I	Test pin Normally ground
73	TES1	I	Test pin Normally ground
74	IOVss2	—	I/O digital ground
75	NC	—	Not used
76	XVSS	—	Master clock ground
77	XTAO	O	Crystal oscillation circuit output
78	XTAI	I	Crystal oscillation circuit input
79	XVDD	—	Master clock power supply
80	AVDD1	—	Analog power supply
81	AOUT1	O	Lch analog output
82	VREFL	O	Lch reference voltage
83	AVSS1	—	Analog ground
84	AVSS2	—	Analog ground
85	VREFR	O	Rch reference voltage
86	AOUT2	O	Rch analog output
87	AVDD2	—	Analog power supply
88	NC	—	Not used
89	IOVDD0	—	I/O digital power supply
90	RMUT	O	Rch "0" detection flag (Not used)
91	LMUT	O	Lch "0" detection flag (Not used)
92	NC	—	Not used
93	XTSL	I	Crystal selection input (Not used)
94	IOVSS0	—	I/O digital ground
95	XTACN	I	Oscillation circuit control Self-oscillation when high, oscillation stop when low
96	SQSO	O	Subcode Q 80-bit and PCM peak and level data output (Not used)
97	SQCK	I	SQSO readout clock input

Pin No.	Pin Name	I/O	Description
98	SBSO	O	Subcode P to W serial output (Not used)
99	EXCK	I	SBSO readout clock input (Not used)
100	XRST	I	System reset input
101	SYSM	I	Mute input
102	DATA	I	Serial data input from CPU
103	VSS	—	Internal digital ground
104	XLAT	I	Latch input from CPU
105	CLOCK	I	Serial data transfer clock input from CPU
106	VDD	—	Sled drive output Internal digital power supply Tracking drive output
107	SENS	O	SENS output to CPU
108	SCLK	I	SENS serial data readout clock input
109	ATSK	I/O	Anti-shock input/output (Not used)
110	WFCK	O	WFCK output (Not used)
111	XUGF	O	XUGF output (Not used)
112	XPCK	O	XPCK output (Not used)
113	GFS	O	GFS output (Not used)
114	C2PO	O	C2PO output (Not used)
115	SCOR	O	High output when the subcode sync, S0 or S1, is detected
116	VDD	—	Internal digital power supply
117	C4M	O	4 2336MHz output (Not used)
118	WDCK	O	Word clock output $f = 2Fs$ (Not used)
119	COUT	I/O	Track number count signal input/output (Not used)
120	NC	—	Not used

HCD-CP555/NXM1
• IC401 M30622MGN-B27FPUO (SYSTEM CONTROL) (MAIN Board)

Pin No.	Pin Name	I/O	Description
1	MP3 CS	O	Chip select signal to CD Digital Processor
2	MP3 LP	O	Latch pulse output to CD Digital Processor and Motor signal output
3	MP3 ACK	I	ACK input from CD Digital Processor and Motor signal input
4	SIRCS	I	Remote commander signal input
5	MP3 DATA OUT	O	Serial data output to the MP3 circuit
6	MP3 DATA IN	I	Serial data input from the MP3 circuit
7	MP3 CLK	O	Serial clock output to the MP3 circuit
8	BYTE	I	External data bus width select input (connected to ground)
9	CN VSS	I	Processor modes switch
10	XC-IN	I	Sub clock input (32.768kHz)
11	XC-OUT	O	Sub clock output (32.768kHz)
12	RESET	I	System reset input
13	X-OUT	O	Main system clock output (16MHz)
14	VSS	-	Ground
15	X-IN	I	Main system clock input (16MHz)
16	VCC	-	Power supply
17	NMI	I	Non-maskable interrupt input
18	RDS-INT	I	RDS signal input
19	SCOR	I	CD Q-DATA request
20	AC-CUT	I	AC cut-off detection signal input
21	SENS	I	Internal status(SENSE) signal input from CXD3059AR
22	CD-DATA	O	Serial data output
23	CD-CLK	O	Serial data transfer clock signal output
24	XLT	O	Serial data latch pulse output
25	XRST	O	Reset signal output to the CD mechanism
26	XCTN	O	XCTN signal output (for Tuner noise reduction)
27	A-MUTE	O	Audio muting on/off control signal output
28	MP3STB	O	Standby signal output to the MP3 circuit
29	IIC-CLK	I/O	Communication data reading clock signal input or transfer clock signal output
30	IIC-DATA	I/O	Communication data bus with CD mechanism and Fluorescent indicator
31	MP3 REQ	I	REQ signal input from MP3 circuit
32	MP3 RESET	O	RESET signal output to the MP3 circuit
33	CDM-MOT-POS-1	O	Motor drive signal output (L/D)
34	CDM-MOT-POS-2	O	Motor drive signal output (U/D)
35	CDM-MAIN-SW-CLS	I	Detection signal input from disc tray close detect main switch
36	CDM-SUB-SW-OPN	I	Detection signal input from disc tray open detect sub switch
37	CDM-ENC-A-1	I	Detection signal input from the disc tray address detect rotary encoder
38	CDM-ENC-A-3	I	Detection signal input from the disc tray address detect rotary encoder
39	CDM-ENC-B-1	I	Detection signal input from the disc tray address detect rotary encoder
40	CDM-ENC-B-3	I	Detection signal input from the disc tray address detect rotary encoder
41	CDM-ENC-B-2	I	Detection signal input from the disc tray address detect rotary encoder
42	CDM-ENC-B-0	I	Detection signal input from the disc tray address detect rotary encoder
43	CDM-ENC-A-2	I	Detection signal input from the disc tray address detect rotary encoder
44	CDM-ENC-A-0	I	Detection signal input from the disc tray address detect rotary encoder
45	CDM-SUB-SW-CLS	I	Detection signal input from disc tray close detect sub switch
46	CDM-MAIN-SW-OPN	I	Detection signal input from disc tray open detect main switch
47	CDM-MOT-NEG-2	O	Motor drive signal output (U/D)
48	CDM-MOT-NEG-1	O	Motor drive signal output (L/D)
49	RDS-DATA	I	RDS data input
50	ST-MUTE	O	Tuner muting control signal output to tuner unit

Pin No.	Pin Name	I/O	Description
51	TUNED IN	I	Tuning detecton signal input from tuner unit
52	ST-CE	O	PLL chip enable signal output to tuner unit
53	ST-DOUT	O	PLL serial data output to tuner unit
54	ST-DIN	I	PLL serial data input from tuner unit
55	ST-CLK	O	PLL serial tansfer clock signal output to tuner unit
56	TA-MUTE	O	Tuner line mute signal output (H:mute on)
57	STK-MUTE	O	Power amplifier muting on/off selection signal output
58	FRONT-RELAY	O	Relay drive signal output for speaker protect
59	BIAS	O	Recording bias on/off selection signal output
60	REC/PB	O	Recording/playback selection signal output
61	TC-LINE-MUTE	O	Line mute on/off selection signal output
62	VCC	-	Power supply
63	TC-REC-MUTE	O	Recording muting on/off selection signal output
64	VSS	-	Ground
65	STBY-RELAY	O	Main power on/off control signal output
66	IO-EXP:CLK	O	Serial data transfer outout to PT8300R
67	IO-EXP:LAT	O	Serial data latch pulse output to PT8300R
68	IO-EXP DATA IN	I	Serial data input from PT8300R
69	IO-EXP DATA OUT	O	Serial data output to PT8300R
70	VOL-A	I	Jog dial pulse input from the rotary encoder (Volume)
71	VOL-B	I	Jog dial pulse input from the rotary encoder (Volume)
72	LED-STANDBY	O	Standby signal output to the LED driver
73	DISPLAY KEY	I	Display key input signal
74	POWER KEY	I	Power key input sigal
75	DISC-SENS	I	Disc status detection signal input
76	JOG 1-A	I	Jog dial pulse input from the rotary encoder (Bass)
77	JOG 1-B	I	Jog dial pulse input from the rotary encoder (Bass)
78	JOG 2-A	I	Jog dial pulse input from the rotary encoder (Treble)
79	JOG 2-B	I	Jog dial pulse input from the rotary encoder (Treble)
80	AMP-DATA	O	Serial data output to M61537FP
81	AMP-CLK	O	Serial clock output to M61537FP
82	FL-RESET	O	Reset signal output to M66005-0131AHPROT
83	FL-CS	O	Chip select signal output to M66005-0131AHPROT
84	FL-CLK	O	Serial clock output to M66005-0131AHPROT
85	FL-DATA	O	Serial data output to M66005-0131AHPROT
86	CAMP-CNT1	O	Capstan motor draive signal output
87	A TRG	O	Deck-A side trigger plunger drive signal output
88	B TRG	O	Deck-B side trigger plunger drive signal output
89	A SHUT	I	Shut off detection signal input from the deck-A side reel pulse detector
90	B SHUT	I	Shut off detection signal input from the deck-B side reel pulse detector
91	B HALF	I	Detection input from the deck-B half detect switch
92	SPEC-IN	I	Setting terminal for the version
93	MAIN-TRANS-CUT	I	Main transformer cut detect signal input
94	AD-KEY 2	I	AD key 2 signal input
95	AD-KEY 1	I	AD key 1 signal input
96	AVSS	-	Ground
97	VACS IN	I	VACS signal input
98	VREF	I	Reference voltage input
99	AVCC	-	Analog power supply
100	AMS-IN	I	Automatic music senser signal input

SECTION 8 EXPLODED VIEWS

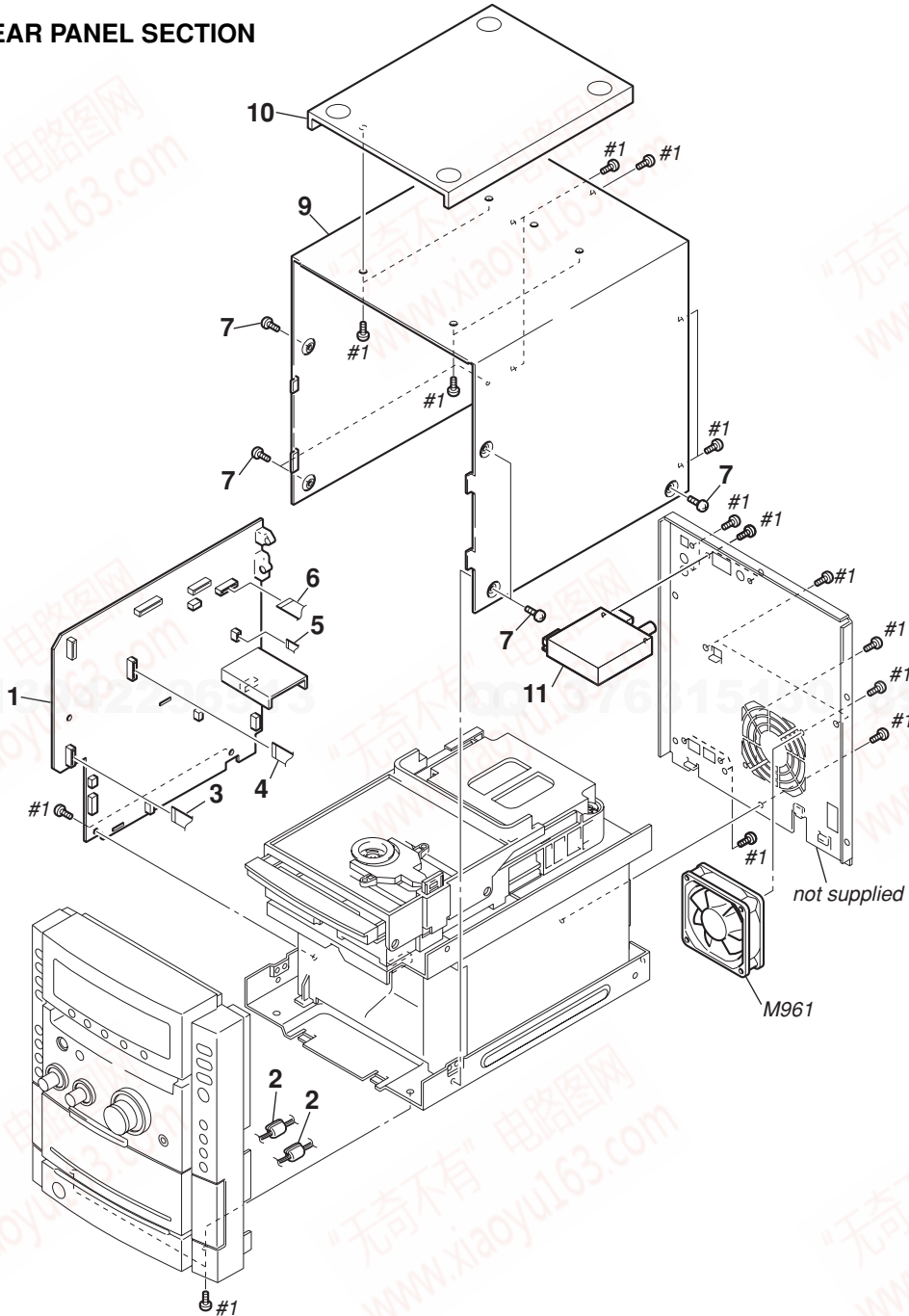
NOTE:

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

- Abbreviation
- E3 : 240V AC Area in E model
- E51 : Chilean and Peruvian model
- EA : Saudi Arabia model
- RU : Russian model

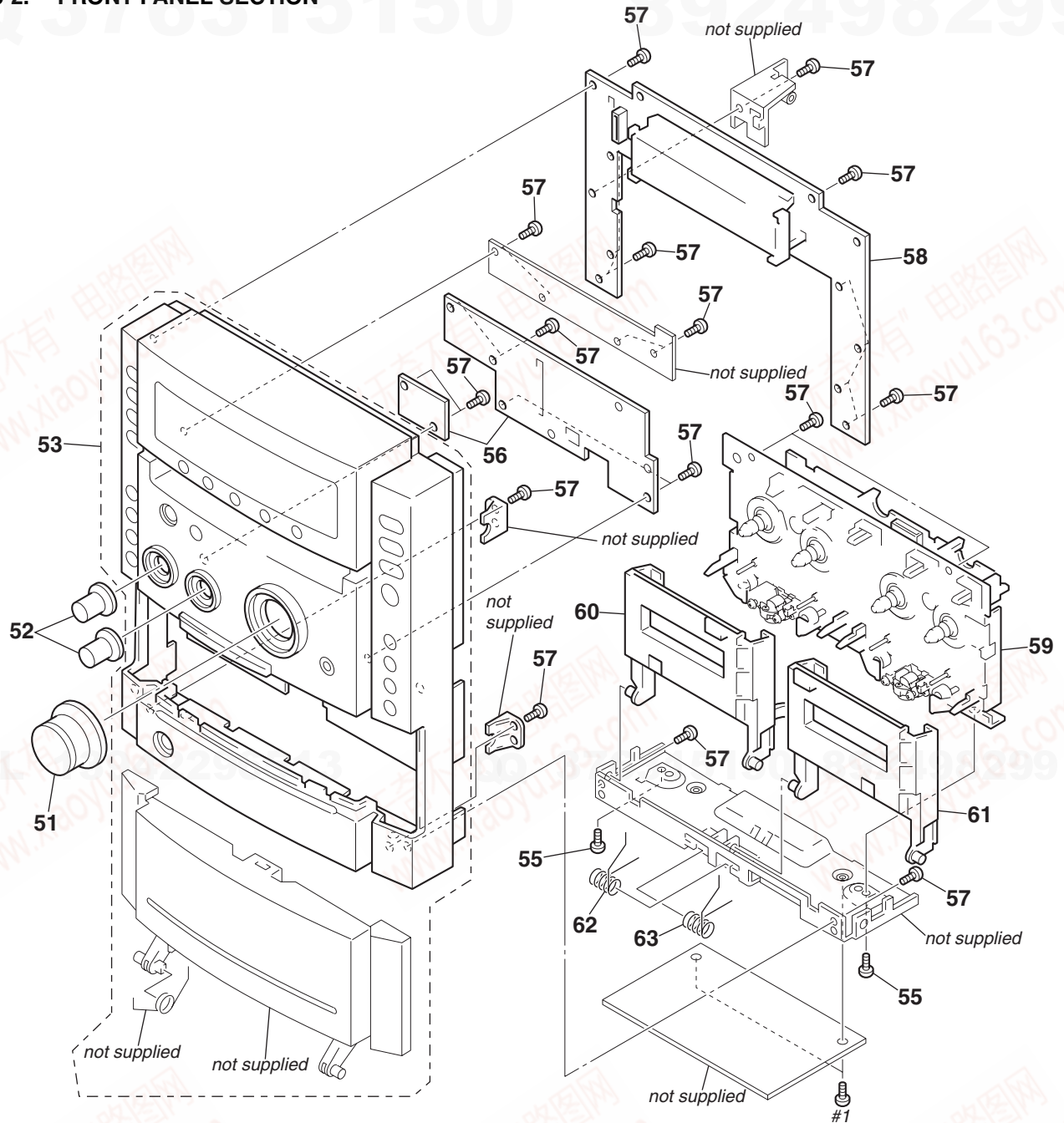
The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.
Replace only with part number specified.

8-1. CASE, REAR PANEL SECTION



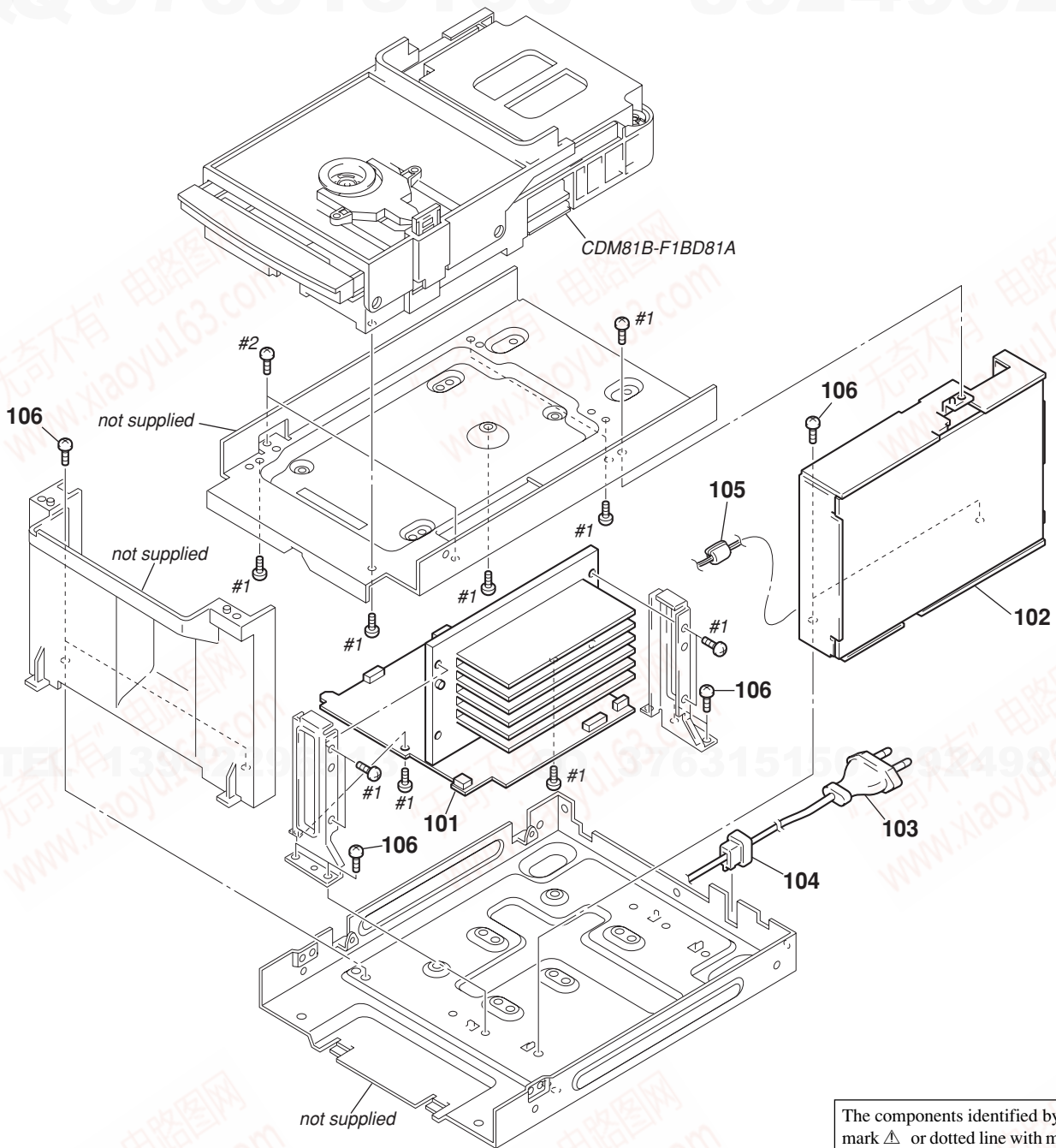
Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
1	A-1052-024-A	MAIN BOARD, COMPLETE (EA)		6	1-773-003-11	WIRE (FLAT TYPE) (15 CORE) (AEP, UK)	
1	A-4750-842-A	MAIN BOARD, COMPLETE (AEP, UK)		7	3-363-099-22	SCREW (CASE 3 TP2)	
1	A-4750-905-A	MAIN BOARD, COMPLETE (NXM1)		9	4-252-541-11	CASE	
1	A-4750-910-A	MAIN BOARD, COMPLETE (E3)		10	4-252-538-01	PANEL, TOP	
1	A-4750-915-A	MAIN BOARD, COMPLETE (E51)		11	1-693-603-31	TUNER (FM/AM) (E3, E51, EA)	
2	1-500-497-11	FILTER, CLAMP (FERRITE CORE)		11	1-693-604-11	TUNER (FM/AM) (AEP, UK)	
3	1-769-984-11	WIRE (FLAT TYPE) (13 CORE)		11	1-693-654-11	TUNER (FM/AM) (NXM1)	
4	1-765-332-11	WIRE (FLAT TYPE) (15 CORE)		M961	1-787-099-11	FAN, DC	
5	1-769-869-11	WIRE (FLAT TYPE) (5 CORE)		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
6	1-769-939-11	WIRE (FLAT TYPE) (11 CORE) (EXCEPT AEP, UK)					

8-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
51	4-252-535-01	KNOB (VOL)		58	A-4750-849-A	FL COM BOARD, COMPLETE	
52	4-252-536-01	KNOB (B/T)		59	1-796-902-11	DECK, MECHANISM (W)	
53	X-4956-196-1	PANEL ASSY (CP555), FRONT (AEP, UK)		60	X-4956-197-1	HOLDER (A) (TC) ASSY	
53	X-4956-261-1	PANEL ASSY, FRONT (E3, E51, EA)		61	X-4956-198-1	HOLDER (B) (TC) ASSY	
53	X-4956-332-1	PANEL ASSY, FRONT (RU)		62	4-252-530-01	SPRING (HB) (US)	
55	4-240-965-01	SCREW 2.6X3 +P, S-TITE		63	4-252-529-01	SPRING (HA)	
56	A-4750-851-A	VOL BOARD, COMPLETE		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
57	4-951-620-01	SCREW (2.6X8), +BVTP					

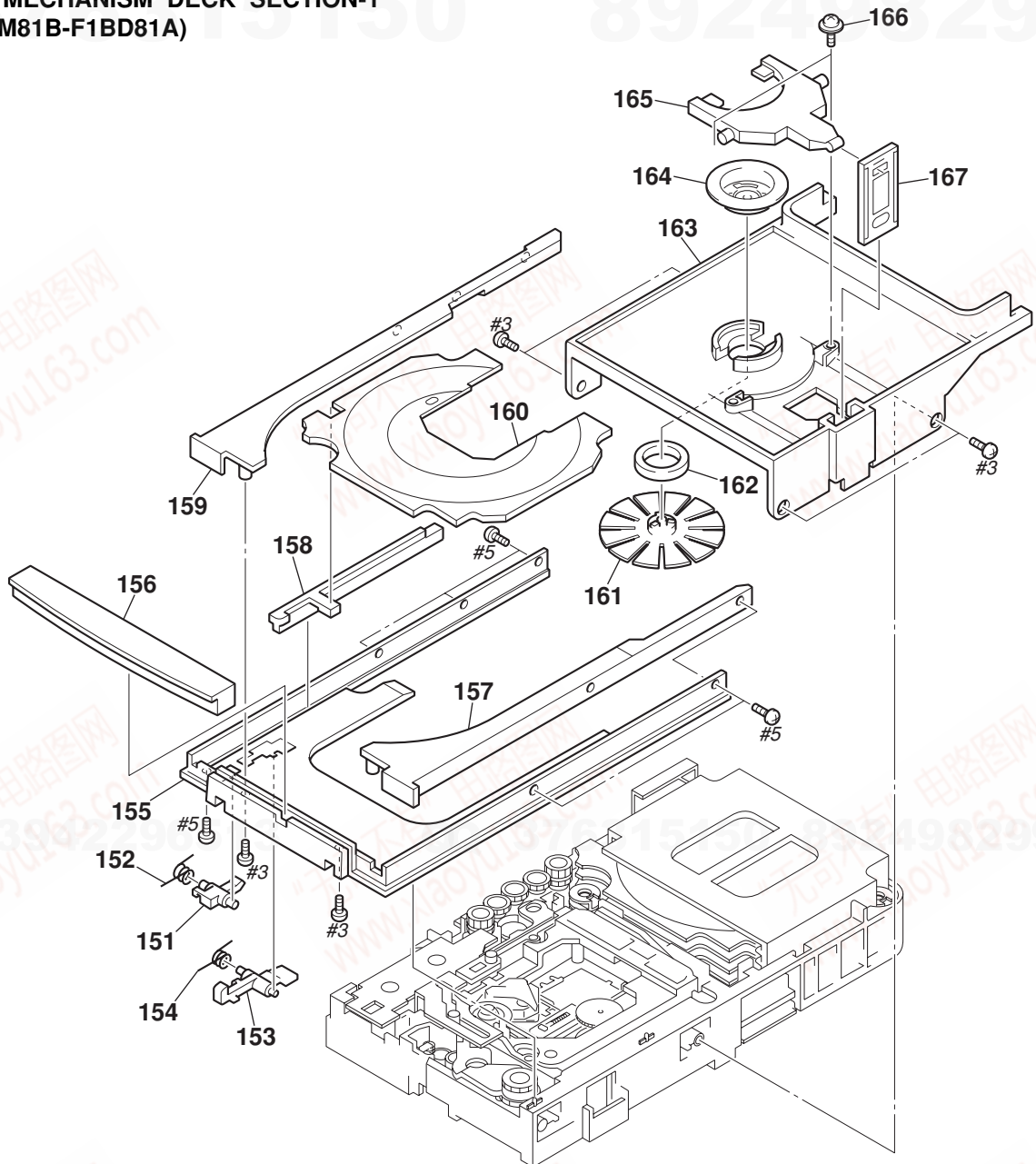
8-3. CHASSIS SECTION



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

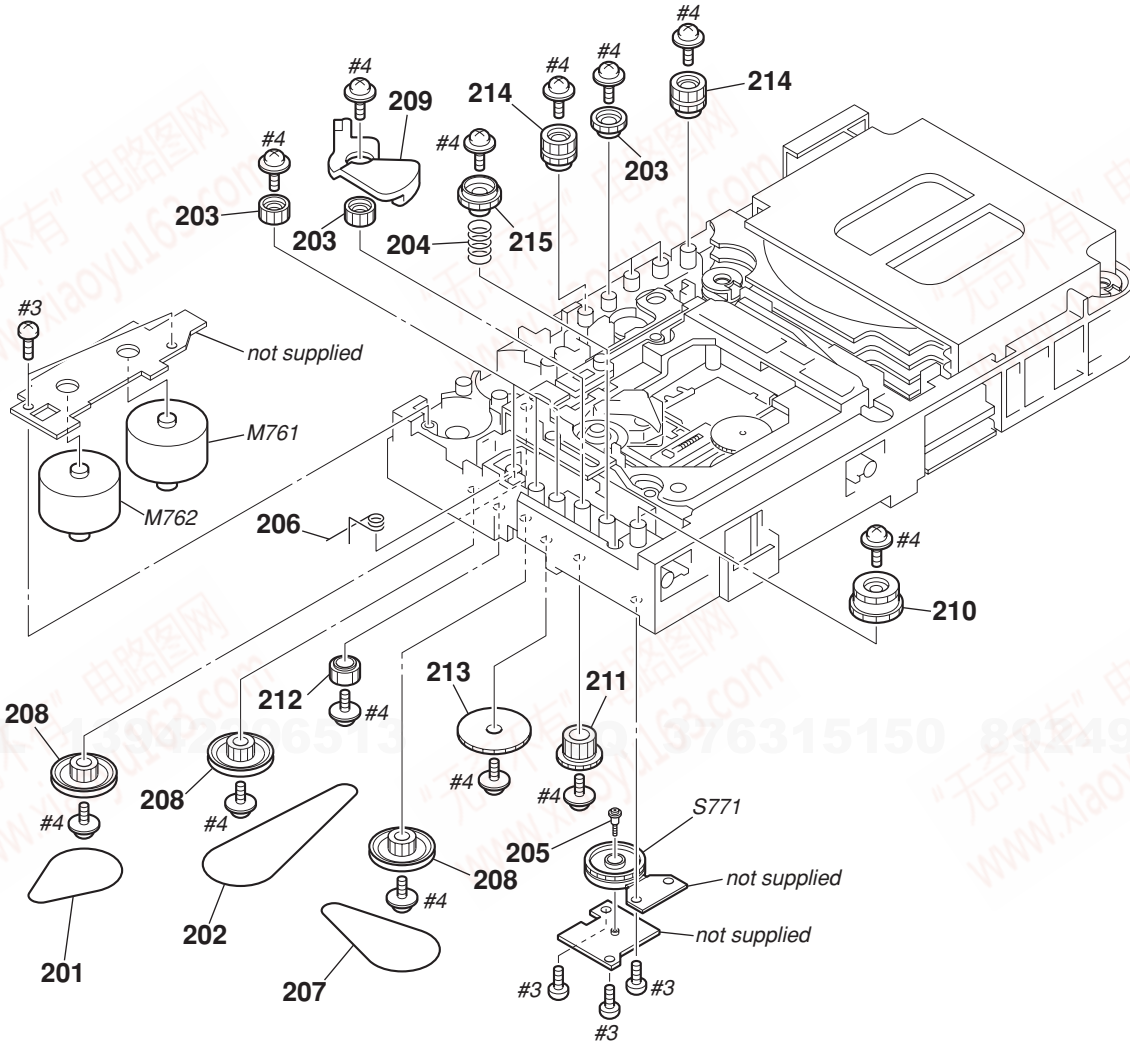
Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
101	A-4750-852-A	FRONT AMP BOARD, COMPLETE (AEP, UK, EA, RU)		Δ 103	1-827-226-11	CORD, POWER (E3)	
101	A-4750-913-A	FRONT AMP BOARD, COMPLETE (E3)		* 104	3-703-244-00	BUSHING (2104), CORD (EXCEPT E3)	
101	A-4750-918-A	FRONT AMP BOARD, COMPLETE (E51)		104	3-703-571-11	BUSHING (S) (4516), CORD (E3)	
Δ 102	1-468-812-11	REGULATOR, SWITCHING (AEP, UK, RU)		105	1-500-497-11	FILTER, CLAMP (FERRITE CORE)	
Δ 102	1-468-824-11	REGULATOR, SWITCHING (E3, E51, EA)		106	3-970-608-01	SUMITITE (B3), +BV	
Δ 103	1-775-786-21	CORD, POWER (UK, EA)		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
Δ 103	1-777-071-53	CORD, POWER (AEP, E51, RU)		#2	7-685-647-79	SCREW +BVTP 3X10 TYPE2 TT (B)	

8-4. CD MECHANISM DECK SECTION-1
(CDM81B-F1BD81A)



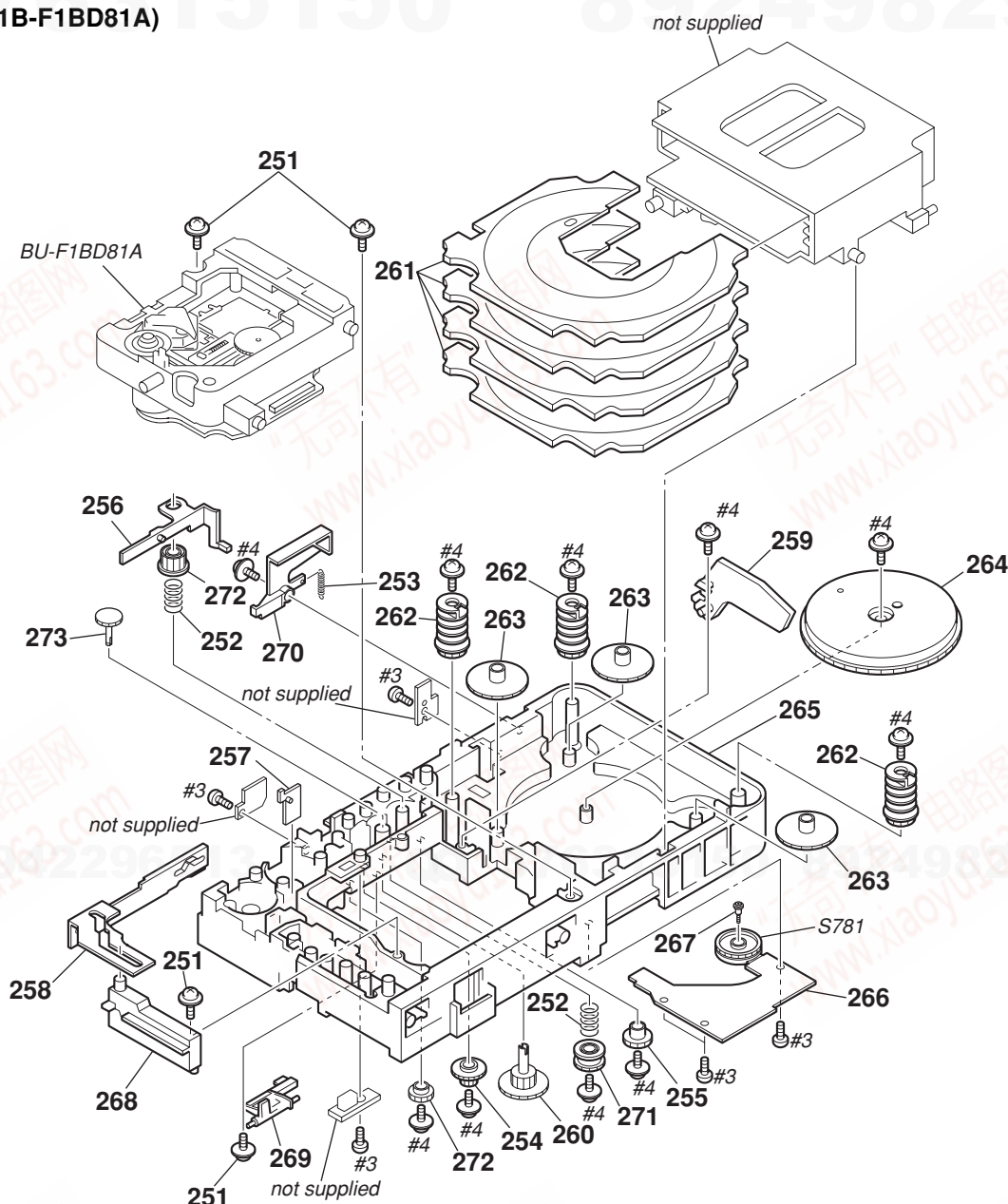
Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
151	4-251-849-01	LEVER (SW2)		161	X-4955-707-2	PULLEY (A5) ASSY, CHUCKING	
152	4-251-991-01	SPRING (SW2), TORSION		162	1-471-035-11	MAGNET ASSY	
153	4-251-860-01	LEVER (LOCK)		163	4-251-821-01	BRACKET (TOP)	
154	4-251-867-01	SPRING (LOCK), TORSION		164	4-231-189-01	PULLEY (B), CHUCKING	
155	4-251-828-01	TRAY (MAIN)		165	4-251-824-01	LIFTER	
156	4-252-533-01	PANEL, LOADING		166	4-985-672-01	SCREW (+PTPWHM2.6), FLOATING	
157	4-251-857-01	COVER (R)		167	4-251-822-01	JOINT (LIFTER)	
158	4-251-830-01	SLIDER (ST)		#3	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	
159	4-251-858-01	COVER (L)		#5	7-685-102-19	SCREW +P 2X4 NON-SLIT TYPE 2	
160	4-251-829-01	TRAY (SUB)					

8-5. CD MECHANISM DECK SECTION-2
(CDM81B-F1BD81A)



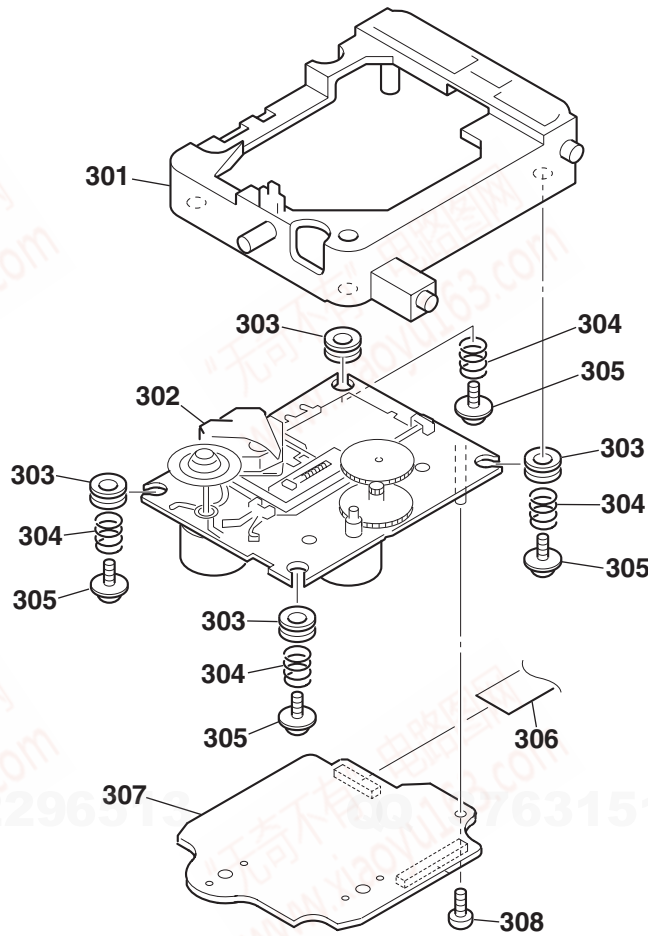
Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
201	4-251-870-01	BELT (BU)		211	4-251-854-01	GEAR (BU1)	
202	4-251-869-01	BELT (MAIN TRAY)		212	4-251-850-01	GEAR (MAIN TRAY 1)	
203	4-251-841-01	GEAR (SUB TRAY 1)		213	4-251-856-01	GEAR (BU2)	
204	4-251-873-01	SPRING (MODE), COMPRESSION		214	4-251-842-01	GEAR (SUB TRAY 2)	
205	4-239-618-02	SCREW (+PWH, 2X6), STEP TAPPING		215	4-251-851-01	GEAR (MAIN TRAY 2)	
206	4-251-872-01	SPRING (LEVER), TORSION		M761	A-4713-174-A	MOTOR (81) ASSY (LD/ST MOTOR)	
207	4-251-868-01	BELT (SUB TRAY)		M762	A-4713-174-A	MOTOR (81) ASSY (BU U/D MOTOR)	
208	4-251-853-01	PULLEY (BU)		S771	1-478-552-11	ENCODER, ROTARY	
209	4-251-834-01	LEVER (MAIN TRAY)		#3	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	
210	4-251-852-01	GEAR (MAIN TRAY 3)		#4	7-685-902-21	SCREW +PTPWH 2.6X8 (TYPE2)	

8-6. CD MECHANISM DECK SECTION-3
(CDM81B-F1BD81A)



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
251	4-985-672-01	SCREW (+PTPWHM2.6), FLOATING		264	4-251-838-01	GEAR (STOCKER 3)	
252	4-251-873-01	SPRING (MODE), COMPRESSION		265	4-251-823-01	CHASSIS (CDM81)	
253	4-251-874-01	SPRING (SW), TENSION		266	A-4750-232-A	RELAY MOUNTED PC BOARD	
254	4-251-844-01	GEAR (SS2)		267	4-239-618-02	SCREW (+PWH, 2X6), STEP TAPPING	
255	4-251-835-01	GEAR (STOCKER 1)		268	4-251-825-01	CAM (BU)	
256	4-251-833-01	LEVER (SUB TRAY)		269	4-251-832-01	LEVER (STOCKER)	
257	4-251-843-01	LEVER (RELEASE)		270	4-251-861-01	LEVER (SW)	
258	4-251-831-01	LEVER (MODE)		271	4-251-839-01	GEAR (STOCKER 4)	
259	4-251-862-01	SHUTTER (TRAY)		272	4-251-840-01	GEAR (SUB TRAY)	
260	4-251-845-01	GEAR (SS3)		273	4-251-847-01	GEAR (SS4)	
261	4-251-829-01	TRAY (SUB)		S781	1-478-551-11	ENCODER, ROTARY	
262	4-251-827-01	CAM (STOCKER)		#3	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	
263	4-251-836-01	GEAR (STOCKER 2)		#4	7-685-902-21	SCREW +PTPWH 2.6X8 (TYPE2)	

8-7. BASE UNIT (BU-F1BD81A)



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

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
301	X-4956-102-1	HOLDER (215) ASSY		306	1-827-992-11	WIRE (FLAT TYPE) (16 CORE)	
\triangle 302	8-820-244-01	OPTICAL PICK-UP (KSM-215DCP/C2NP)		307	A-4751-045-A	CD (A) BOARD, COMPLETE	
303	4-227-549-11	INSULATOR		308	4-951-620-01	SCREW (2.6X8), +BVTP	
304	4-227-045-11	SPRING (INSULATOR), COIL					
305	4-985-672-01	SCREW (+PTPWHM2.6), FLOATING					

SECTION 9 ELECTRICAL PARTS LIST

BD

NOTE:

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

- COILS
uH: μH
- SEMICONDUCTORS
In each case, u: μ, for example:
uA...: μA..., uPA..., μPA...,
uPB..., μPB..., uPC..., μPC...,
uPD..., μPD...
- Abbreviation
E3 : 240V AC Area in E model
E51 : Chilean and Peruvian model
EA : Saudi Arabia 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.

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

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
	A-4751-045-A	BD BOARD, COMPLETE *****		C195	1-164-360-11	CERAMIC CHIP 0.1uF	16V
		< CAPACITOR >		C196	1-164-360-11	CERAMIC CHIP 0.1uF	16V
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				
C194	1-164-360-11	CERAMIC CHIP 0.1uF	16V				

HCD-CP555/NXM1

BD **DISC SW**

Ref. No.	Part No.	Description	Remarks
		< IC >	
IC101	8-752-425-12	IC CXD3059AR	
IC251	6-705-808-01	IC BA5947FM	
IC301	6-705-365-01	IC TC94A34FG-002	
IC303	6-705-807-01	IC BH15FB1WG	
		< TRANSISTOR >	
Q10	6-550-363-01	TRANSISTOR 2SB1690KT146	
		< RESISTOR >	
R10	1-216-791-11	METAL CHIP 3.3	5% 1/10W
R11	1-216-864-11	SHORT CHIP 0	
R12	1-216-845-11	METAL CHIP 100K	5% 1/10W
R13	1-218-446-11	METAL CHIP 1	5% 1/10W
R111	1-216-821-11	METAL CHIP 1K	5% 1/10W
R112	1-216-835-11	METAL CHIP 15K	5% 1/10W
R113	1-216-821-11	METAL CHIP 1K	5% 1/10W
R114	1-216-835-11	METAL CHIP 15K	5% 1/10W
R121	1-216-835-11	METAL CHIP 15K	5% 1/10W
R131	1-216-857-11	METAL CHIP 1M	5% 1/10W
R132	1-216-833-11	METAL CHIP 10K	5% 1/10W
R133	1-216-848-11	METAL CHIP 180K	5% 1/10W
R141	1-216-829-11	METAL CHIP 4.7K	5% 1/10W
R142	1-216-821-11	METAL CHIP 1K	5% 1/10W
R143	1-216-827-11	METAL CHIP 3.3K	5% 1/10W
R151	1-216-864-11	SHORT CHIP 0	
R161	1-216-809-11	METAL CHIP 100	5% 1/10W
R162	1-216-841-11	METAL CHIP 47K	5% 1/10W
R163	1-216-809-11	METAL CHIP 100	5% 1/10W
R165	1-216-864-11	SHORT CHIP 0	
R171	1-216-817-11	METAL CHIP 470	5% 1/10W
R172	1-216-857-11	METAL CHIP 1M	5% 1/10W
R173	1-216-295-91	SHORT CHIP 0	
R181	1-216-809-11	METAL CHIP 100	5% 1/10W
R182	1-216-809-11	METAL CHIP 100	5% 1/10W
R191	1-216-864-11	SHORT CHIP 0	
R201	1-500-445-21	FERRITE, EMI (SMD) (2012)	
R203	1-216-864-11	SHORT CHIP 0	
R204	1-500-445-21	FERRITE, EMI (SMD) (2012)	
R205	1-216-864-11	SHORT CHIP 0	
R251	1-216-833-11	METAL CHIP 10K	5% 1/10W
R252	1-216-837-11	METAL CHIP 22K	5% 1/10W
R253	1-216-833-11	METAL CHIP 10K	5% 1/10W
R301	1-216-845-11	METAL CHIP 100K	5% 1/10W
R302	1-216-833-11	METAL CHIP 10K	5% 1/10W
R303	1-216-845-11	METAL CHIP 100K	5% 1/10W
R305	1-216-845-11	METAL CHIP 100K	5% 1/10W
R306	1-216-864-11	SHORT CHIP 0	
R307	1-216-833-11	METAL CHIP 10K	5% 1/10W
R313	1-216-813-11	METAL CHIP 220	5% 1/10W
R351	1-216-809-11	METAL CHIP 100	5% 1/10W
R352	1-216-809-11	METAL CHIP 100	5% 1/10W
R353	1-216-809-11	METAL CHIP 100	5% 1/10W
R354	1-216-809-11	METAL CHIP 100	5% 1/10W
R401	1-216-809-11	METAL CHIP 100	5% 1/10W
R402	1-216-809-11	METAL CHIP 100	5% 1/10W
R403	1-216-809-11	METAL CHIP 100	5% 1/10W

Ref. No.	Part No.	Description	Remarks
R404	1-216-809-11	METAL CHIP 100	5% 1/10W
R405	1-216-809-11	METAL CHIP 100	5% 1/10W
R406	1-216-809-11	METAL CHIP 100	5% 1/10W
R407	1-216-809-11	METAL CHIP 100	5% 1/10W
R408	1-216-809-11	METAL CHIP 100	5% 1/10W
R409	1-216-809-11	METAL CHIP 100	5% 1/10W
R410	1-216-809-11	METAL CHIP 100	5% 1/10W
R411	1-216-809-11	METAL CHIP 100	5% 1/10W
R412	1-216-809-11	METAL CHIP 100	5% 1/10W
R419	1-216-809-11	METAL CHIP 100	5% 1/10W
		< SWITCH >	
S101	1-771-853-11	SWITCH, DETECTION (LIMIT)	
		< VIBRATOR >	
X171	1-767-408-21	VIBRATOR, CRYSTAL (16.9MHz)	

	1-861-475-11	DISC SW BOARD	*****
		< CAPACITOR >	
C1009	1-164-156-11	CERAMIC CHIP 0.1uF	25V
		< DIODE >	
D1001	8-719-058-64	DIODE SEL5823A-TP15 (DISC 1)	
D1002	8-719-058-64	DIODE SEL5823A-TP15 (DISC 2)	
D1003	8-719-058-64	DIODE SEL5823A-TP15 (DISC 3)	
D1004	8-719-058-64	DIODE SEL5823A-TP15 (DISC 4)	
D1005	8-719-058-64	DIODE SEL5823A-TP15 (DISC 5)	
		< TRANSISTOR >	
Q1001	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q1002	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q1003	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q1004	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q1005	8-729-027-43	TRANSISTOR DTC114EKA-T146	
		< RESISTOR >	
R1001	1-216-819-11	METAL CHIP 680	5% 1/10W
R1002	1-216-819-11	METAL CHIP 680	5% 1/10W
R1003	1-216-819-11	METAL CHIP 680	5% 1/10W
R1004	1-216-819-11	METAL CHIP 680	5% 1/10W
R1005	1-216-819-11	METAL CHIP 680	5% 1/10W
R1006	1-216-819-11	METAL CHIP 680	5% 1/10W
R1007	1-216-819-11	METAL CHIP 680	5% 1/10W
R1008	1-216-819-11	METAL CHIP 680	5% 1/10W
R1009	1-216-819-11	METAL CHIP 680	5% 1/10W
R1010	1-216-819-11	METAL CHIP 680	5% 1/10W
R1011	1-216-813-11	METAL CHIP 220	5% 1/10W
R1012	1-216-815-11	METAL CHIP 330	5% 1/10W
R1013	1-216-817-11	METAL CHIP 470	5% 1/10W
R1014	1-216-819-11	METAL CHIP 680	5% 1/10W
		< SWITCH >	
S1001	1-762-875-21	SWITCH, KEYBOARD (DISC 1)	
S1002	1-762-875-21	SWITCH, KEYBOARD (DISC 2)	

DISC SW

FRONT AMP

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
S1003	1-762-875-21	SWITCH, KEYBOARD (DISC 3)		CN508	1-784-041-41	CONNECTOR, BOARD TO BOARD 9P	
S1004	1-762-875-21	SWITCH, KEYBOARD (DISC 4)				< DIODE >	
S1005	1-762-875-21	SWITCH, KEYBOARD (DISC 5)					

	A-4750-852-A	FRONT AMP BOARD, COMPLETE (AEP, UK, EA, RU)		D501	8-719-988-61	DIODE 1SS355TE-17	
	A-4750-913-A	FRONT AMP BOARD, COMPLETE (E3)		D504	8-719-988-61	DIODE 1SS355TE-17	
	A-4750-918-A	FRONT AMP BOARD, COMPLETE (E51) *****		D505	8-719-988-61	DIODE 1SS355TE-17	
		< CAPACITOR >		D507	8-719-988-61	DIODE 1SS355TE-17	
				D509	8-719-988-61	DIODE 1SS355TE-17	
C503	1-162-962-11	CERAMIC CHIP	470PF 10% 50V			< EARTH TERMINAL >	
C504	1-162-962-11	CERAMIC CHIP	470PF 10% 50V				
C505	1-126-964-11	ELECT	10uF 20% 50V	* EP501	1-537-738-21	TERMINAL, EARTH (AEP, UK, EA, RU)	
C508	1-162-960-11	CERAMIC CHIP	220PF 10% 50V	* EP502	1-537-738-21	TERMINAL, EARTH	
C509	1-126-947-11	ELECT	47uF 20% 35V	* EP510	1-537-738-21	TERMINAL, EARTH	
C510	1-126-947-11	ELECT	47uF 20% 35V			< IC >	
C511	1-162-960-11	CERAMIC CHIP	220PF 10% 50V	IC502	8-749-017-12	IC STK442-090	
C513	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	IC850	6-703-610-01	IC RT8H015C-T112-1	
C515	1-126-967-11	ELECT	47uF 20% 50V			< COIL >	
C516	1-126-967-11	ELECT	47uF 20% 50V				
C518	1-126-967-11	ELECT	47uF 20% 50V	L501	1-420-872-52	COIL, AIR-CORE (AEP, UK, EA, RU)	
C522	1-137-749-11	MYLAR	0.1uF 100V	L502	1-420-872-52	COIL, AIR-CORE (AEP, UK, EA, RU)	
C523	1-137-749-11	MYLAR	0.1uF 100V			< TRANSISTOR >	
C524	1-137-749-11	MYLAR	0.1uF 100V				
C525	1-137-749-11	MYLAR	0.1uF 100V	Q501	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C528	1-128-562-11	ELECT	47uF 20% 100V	Q502	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C529	1-162-974-11	CERAMIC CHIP	0.01uF 50V	Q503	8-729-271-31	TRANSISTOR 2SC2713-G	
C530	1-128-550-11	ELECT	2200uF 20% 50V	Q504	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
C531	1-128-550-11	ELECT	2200uF 20% 50V	Q505	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
C537	1-131-992-91	CERAMIC CHIP	100000PF 35V (AEP, UK, EA, RU)	Q507	8-729-216-31	TRANSISTOR 2SA1163-G	
C538	1-131-992-91	CERAMIC CHIP	100000PF 35V (AEP, UK, EA, RU)	Q508	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C539	1-131-992-91	CERAMIC CHIP	100000PF 35V (AEP, UK, EA, RU)	Q509	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C540	1-131-992-91	CERAMIC CHIP	100000PF 35V (AEP, UK, EA, RU)	Q850	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C557	1-164-156-11	CERAMIC CHIP	0.1uF 25V	Q851	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C560	1-126-964-11	ELECT	10uF 20% 50V	Q852	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C850	1-126-964-11	ELECT	10uF 20% 50V	Q853	8-729-141-73	TRANSISTOR 2SC3624A-T1L15L16	
C851	1-104-658-91	ELECT	100uF 20% 10V	Q854	8-729-141-73	TRANSISTOR 2SC3624A-T1L15L16	
C852	1-126-961-11	ELECT	2.2uF 20% 50V	Q858	8-729-026-68	TRANSISTOR 2SD2525 (TP)	
C853	1-126-923-91	ELECT	220uF 20% 10V	Q859	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C854	1-126-964-11	ELECT	10uF 20% 50V	Q860	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C855	1-107-721-11	ELECT	4.7uF 20% 100V	Q861	8-729-027-43	TRANSISTOR DTC114EKA-T146	
C856	1-107-721-11	ELECT	4.7uF 20% 100V	Q868	8-729-027-23	TRANSISTOR DTA114EKA-T146	
C857	1-162-974-11	CERAMIC CHIP	0.01uF 50V	Q869	8-729-027-43	TRANSISTOR DTC114EKA-T146	
C858	1-162-974-11	CERAMIC CHIP	0.01uF 50V	Q890	8-729-027-43	TRANSISTOR DTC114EKA-T146	
C859	1-126-947-11	ELECT	47uF 20% 35V			< RESISTOR >	
C860	1-126-963-11	ELECT	4.7uF 20% 50V	R505	1-216-821-11	METAL CHIP 1K 5% 1/10W	
C861	1-104-658-91	ELECT	100uF 20% 10V	R506	1-216-841-11	METAL CHIP 47K 5% 1/10W	
C862	1-104-658-91	ELECT	100uF 20% 10V	R507	1-216-841-11	METAL CHIP 47K 5% 1/10W	
		< CONNECTOR >		R509	1-216-821-11	METAL CHIP 1K 5% 1/10W	
				R511	1-218-484-11	METAL CHIP 750 5% 1/10W	
CN501	1-766-724-11	CONNECTOR, BOARD TO BOARD 7P		R512	1-218-484-11	METAL CHIP 750 5% 1/10W	
* CN502	1-564-520-11	PLUG, CONNECTOR 5P		R513	1-216-841-11	METAL CHIP 47K 5% 1/10W	
CN505	1-785-330-11	PIN, CONNECTOR (LIGHT ANGLE) 4P		R515	1-216-837-11	METAL CHIP 22K 5% 1/10W	
* CN506	1-564-518-11	PLUG, CONNECTOR 3P		R516	1-216-841-11	METAL CHIP 47K 5% 1/10W	
				R517	1-216-842-11	METAL CHIP 56K 5% 1/10W	

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FRONT AMP	HP	MAIN
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Ref. No.	Part No.	Description	Quantity	Power	Remarks
R518	1-216-845-11	METAL CHIP	100K	5%	1/10W
R519	1-216-845-11	METAL CHIP	100K	5%	1/10W
△ R520	1-245-605-51	FUSIBLE	100	5%	1/4W
△ R521	1-245-605-51	FUSIBLE	100	5%	1/4W
R522	1-216-841-11	METAL CHIP	47K	5%	1/10W
R523	1-216-839-11	METAL CHIP	33K	5%	1/10W
△ R524	1-217-637-00	FUSIBLE	1	5%	1/4W
△ R528	1-220-755-11	METAL	0.22	10%	2W
△ R529	1-220-755-11	METAL	0.22	10%	2W
R530	1-216-821-11	METAL CHIP	1K	5%	1/10W
R531	1-216-835-11	METAL CHIP	15K	5%	1/10W
R532	1-216-845-11	METAL CHIP	100K	5%	1/10W
R533	1-216-845-11	METAL CHIP	100K	5%	1/10W
R534	1-216-835-11	METAL CHIP	15K	5%	1/10W
R535	1-216-821-11	METAL CHIP	1K	5%	1/10W
△ R536	1-220-755-11	METAL	0.22	10%	2W
△ R537	1-220-755-11	METAL	0.22	10%	2W
R542	1-249-625-31	CARBON	10	5%	1/2W
R543	1-249-625-31	CARBON	10	5%	1/2W
R545	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R546	1-216-841-11	METAL CHIP	47K	5%	1/10W
R547	1-216-843-11	METAL CHIP	68K	5%	1/10W
R548	1-216-845-11	METAL CHIP	100K	5%	1/10W
R549	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R550	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R559	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R560	1-216-833-11	METAL CHIP	10K	5%	1/10W
R561	1-249-625-31	CARBON	10	5%	1/2W
R562	1-249-625-31	CARBON	10	5%	1/2W
R563	1-249-625-31	CARBON	10	5%	1/2W
R564	1-216-841-11	METAL CHIP	47K	5%	1/10W
R565	1-216-841-11	METAL CHIP	47K	5%	1/10W
R566	1-249-625-31	CARBON	10	5%	1/2W
R568	1-216-843-11	METAL CHIP	68K	5%	1/10W
R569	1-216-841-11	METAL CHIP	47K	5%	1/10W
R850	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R851	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R854	1-216-833-11	METAL CHIP	10K	5%	1/10W
R855	1-215-891-11	METAL OXIDE	680	5%	2W
R857	1-216-833-11	METAL CHIP	10K	5%	1/10W
R858	1-215-891-11	METAL OXIDE	680	5%	2W
R860	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R862	1-216-837-11	METAL CHIP	22K	5%	1/10W
R863	1-216-837-11	METAL CHIP	22K	5%	1/10W
R864	1-216-849-11	METAL CHIP	220K	5%	1/10W
R865	1-216-809-11	METAL CHIP	100	5%	1/10W
R866	1-216-841-11	METAL CHIP	47K	5%	1/10W
R867	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R870	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R871	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R872	1-216-845-11	METAL CHIP	100K	5%	1/10W
R875	1-216-813-11	METAL CHIP	220	5%	1/10W
R876	1-216-813-11	METAL CHIP	220	5%	1/10W
R890	1-216-833-11	METAL CHIP	10K	5%	1/10W
R895	1-216-864-11	SHORT CHIP	0		

Ref. No.	Part No.	Description	Quantity	Power	Remarks
		< RELAY >			
RY501	1-755-373-11	RELAY			
		< THERMISTOR >			
TH531	1-807-796-11	THERMISTOR			
		< TERMINAL >			
TM501	1-537-114-21	TERMINAL BOARD (SPEAKER)			

		HP BOARD			

		< CAPACITOR >			
C1093	1-162-971-11	CERAMIC CHIP	0.001uF	10%	50V
C1094	1-162-971-11	CERAMIC CHIP	0.001uF	10%	50V
		< CONNECTOR >			
CN1062	1-785-330-11	PIN, CONNECTOR (LIGHT ANGLE) 4P			
		< FERRITE BEAD >			
FB1001	1-500-245-11	INDUCTOR, FERRITE BEAD			
FB1002	1-500-245-11	INDUCTOR, FERRITE BEAD			
FB1003	1-500-245-11	INDUCTOR, FERRITE BEAD			
FB1004	1-500-245-11	INDUCTOR, FERRITE BEAD			
		< JACK >			
J1063	1-750-032-11	JACK (DIA. 3.5) (PHONES)			
		< SHORT >			
JR1080	1-216-864-11	SHORT CHIP	0		
JR1081	1-216-864-11	SHORT CHIP	0		
		< RESISTOR >			
R1088	1-216-864-11	SHORT CHIP	0		

	A-1052-024-A	MAIN BOARD, COMPLETE (EA)			
	A-4750-842-A	MAIN BOARD, COMPLETE (AEP, UK)			
	A-4750-905-A	MAIN BOARD, COMPLETE (RU)			
	A-4750-910-A	MAIN BOARD, COMPLETE (E3)			
	A-4750-915-A	MAIN BOARD, COMPLETE (E51)			

	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3			
		< CAPACITOR >			
C1	1-126-964-11	ELECT	10uF	20%	50V
C2	1-126-964-11	ELECT	10uF	20%	50V
C21	1-126-963-11	ELECT	4.7uF	20%	50V
C22	1-126-963-11	ELECT	4.7uF	20%	50V
C25	1-126-963-11	ELECT	4.7uF	20%	50V
C26	1-126-963-11	ELECT	4.7uF	20%	50V
C35	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C36	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C37	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C38	1-164-156-11	CERAMIC CHIP	0.1uF		25V

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

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
C39	1-164-156-11	CERAMIC CHIP	0.1uF 25V	C192	1-126-964-11	ELECT	10uF 20% 50V
C40	1-164-156-11	CERAMIC CHIP	0.1uF 25V	C196	1-162-969-11	CERAMIC CHIP	0.0068uF 10% 25V
C100	1-164-156-11	CERAMIC CHIP	0.1uF 25V	C197	1-162-927-11	CERAMIC CHIP	100PF 5% 50V
C101	1-126-964-11	ELECT	10uF 20% 50V	C198	1-162-927-11	CERAMIC CHIP	100PF 5% 50V
C102	1-126-964-11	ELECT	10uF 20% 50V	C270	1-126-964-11	ELECT	10uF 20% 50V
C103	1-126-964-11	ELECT	10uF 20% 50V	C271	1-126-964-11	ELECT	10uF 20% 50V
C104	1-126-964-11	ELECT	10uF 20% 50V	C301	1-162-961-11	CERAMIC CHIP	330PF 10% 50V
C105	1-136-497-81	FILM	0.1uF 5% 50V	C302	1-126-964-11	ELECT	10uF 20% 50V
C106	1-126-964-11	ELECT	10uF 20% 50V	C303	1-162-961-11	CERAMIC CHIP	330PF 10% 50V
C107	1-164-227-11	CERAMIC CHIP	0.022uF 10% 25V	C304	1-126-964-11	ELECT	10uF 20% 50V
C108	1-164-227-11	CERAMIC CHIP	0.022uF 10% 25V	C305	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
C109	1-126-964-11	ELECT	10uF 20% 50V	C306	1-162-927-11	CERAMIC CHIP	100PF 5% 50V
C110	1-165-176-11	CERAMIC CHIP	0.047uF 10% 16V	C307	1-162-961-11	CERAMIC CHIP	330PF 10% 50V
C111	1-164-174-11	CERAMIC CHIP	0.0082uF 10% 25V	C308	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C112	1-126-964-11	ELECT	10uF 20% 50V	C311	1-130-481-00	MYLAR	0.0068uF 5% 50V
C115	1-126-964-11	ELECT	10uF 20% 50V	C312	1-130-483-00	MYLAR	0.01uF 5% 50V
C116	1-126-964-11	ELECT	10uF 20% 50V	C313	1-126-947-11	ELECT	47uF 20% 35V
C117	1-126-960-11	ELECT	1uF 20% 50V	C314	1-137-150-11	FILM	0.01uF 5% 100V
C118	1-130-483-00	MYLAR	0.01uF 5% 50V	C315	1-130-479-00	MYLAR	0.0047uF 5% 50V
C119	1-126-947-11	ELECT	47uF 20% 35V	C322	1-162-968-11	CERAMIC CHIP	0.0047uF 10% 50V
C121	1-136-177-00	FILM	1uF 5% 50V	C324	1-162-968-11	CERAMIC CHIP	0.0047uF 10% 50V
C122	1-126-963-11	ELECT	4.7uF 20% 50V	C351	1-162-961-11	CERAMIC CHIP	330PF 10% 50V
C123	1-164-156-11	CERAMIC CHIP	0.1uF 25V	C352	1-126-964-11	ELECT	10uF 20% 50V
C124	1-104-658-91	ELECT	100uF 20% 10V	C353	1-162-961-11	CERAMIC CHIP	330PF 10% 50V
C125	1-104-658-91	ELECT	100uF 20% 10V	C354	1-126-964-11	ELECT	10uF 20% 50V
C126	1-104-658-91	ELECT	100uF 20% 10V	C355	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
C127	1-104-658-91	ELECT	100uF 20% 10V	C356	1-162-927-11	CERAMIC CHIP	100PF 5% 50V
C131	1-162-919-11	CERAMIC CHIP	22PF 5% 50V	C357	1-162-961-11	CERAMIC CHIP	330PF 10% 50V
C132	1-130-483-00	MYLAR	0.01uF 5% 50V	C358	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C133	1-130-483-00	MYLAR	0.01uF 5% 50V	C370	1-104-658-91	ELECT	100uF 20% 10V
C134	1-126-964-11	ELECT	10uF 20% 50V	C372	1-104-655-91	ELECT	470uF 20% 6.3V
C135	1-126-960-11	ELECT	1uF 20% 50V	C373	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C141	1-162-960-11	CERAMIC CHIP	220PF 10% 50V	C375	1-126-916-11	ELECT	1000uF 20% 6.3V
C142	1-126-964-11	ELECT	10uF 20% 50V	C379	1-104-655-91	ELECT	470uF 20% 6.3V
C146	1-162-969-11	CERAMIC CHIP	0.0068uF 10% 25V	C382	1-126-925-91	ELECT	470uF 20% 10V
C147	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	C383	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C148	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	C384	1-104-655-91	ELECT	470uF 20% 6.3V
C150	1-163-077-00	CERAMIC CHIP	0.1uF 50V	C390	1-126-965-91	ELECT	22uF 20% 50V
C151	1-126-964-11	ELECT	10uF 20% 50V	C391	1-136-497-81	FILM	0.1uF 5% 50V
C152	1-126-964-11	ELECT	10uF 20% 50V	C392	1-136-497-81	FILM	0.1uF 5% 50V
C154	1-126-964-11	ELECT	10uF 20% 50V	C393	1-126-964-11	ELECT	10uF 20% 50V
C155	1-136-497-81	FILM	0.1uF 5% 50V	C410	1-162-918-11	CERAMIC CHIP	18PF 5% 50V
C156	1-126-964-11	ELECT	10uF 20% 50V	C411	1-162-918-11	CERAMIC CHIP	18PF 5% 50V
C157	1-164-227-11	CERAMIC CHIP	0.022uF 10% 25V	C412	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C158	1-164-227-11	CERAMIC CHIP	0.022uF 10% 25V	C416	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C159	1-126-964-11	ELECT	10uF 20% 50V	C417	1-126-916-11	ELECT	1000uF 20% 6.3V
C160	1-165-176-11	CERAMIC CHIP	0.047uF 10% 16V	C462	1-104-658-91	ELECT	100uF 20% 10V
C161	1-164-174-11	CERAMIC CHIP	0.0082uF 10% 25V	C463	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C162	1-126-964-11	ELECT	10uF 20% 50V	C475	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C165	1-126-964-11	ELECT	10uF 20% 50V	C476	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C166	1-126-964-11	ELECT	10uF 20% 50V	C497	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C167	1-126-960-11	ELECT	1uF 20% 50V	C498	1-126-964-11	ELECT	10uF 20% 50V
C168	1-130-483-00	MYLAR	0.01uF 5% 50V	C499	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C169	1-126-947-11	ELECT	47uF 20% 35V	C900	1-126-937-11	ELECT	4700uF 20% 16V
C173	1-162-960-11	CERAMIC CHIP	220PF 10% 50V	C901	1-126-956-91	ELECT	0.1uF 20% 50V
C174	1-162-960-11	CERAMIC CHIP	220PF 10% 50V	C902	1-104-658-91	ELECT	100uF 20% 10V
C183	1-126-960-11	ELECT	1uF 20% 50V	C903	1-126-964-11	ELECT	10uF 20% 50V
C191	1-162-960-11	CERAMIC CHIP	220PF 10% 50V				

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MAIN

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
C904	1-104-658-91	ELECT	100uF 20% 10V	FB373	1-216-864-11	SHORT CHIP	0
C905	1-126-956-91	ELECT	0.1uF 20% 50V	FB374	1-216-864-11	SHORT CHIP	0
C906	1-104-658-91	ELECT	100uF 20% 10V			< IC >	
C919	1-126-964-11	ELECT	10uF 20% 50V	IC101	6-705-667-01	IC M61537FP-RFOG	
C920	1-126-964-11	ELECT	10uF 20% 50V	IC301	8-749-019-25	IC TOTX141 (DIGITAL OUT)	
C930	1-126-768-11	ELECT	2200uF 20% 16V	IC391	8-759-532-64	IC M62703SL-TP	
C952	1-164-156-11	CERAMIC CHIP	0.1uF 25V	IC401	6-803-925-01	IC M30622MGN-B27FPUO	
C953	1-164-156-11	CERAMIC CHIP	0.1uF 25V	IC901	8-759-701-59	IC NJM78M09FA	
		< CONNECTOR >		IC902	8-759-701-59	IC NJM78M09FA	
CN101	1-691-768-11	PLUG (MICRO CONNECTOR) 6P		IC903	6-702-771-01	IC TA78033LS	
CN102	1-766-600-21	CONNECTOR, BOARD TO BOARD 7P		IC951	6-703-679-11	IC PT8300R-TP	
CN103	1-784-038-21	CONNECTOR, BOARD TO BOARD 9P				< JACK >	
CN109	1-784-774-11	CONNECTOR, FFC 13P		J102	1-778-940-11	JACK 2P (VIDEO (MD))	
CN110	1-784-776-11	CONNECTOR, FFC 15P				< SHORT >	
CN112	1-784-766-11	CONNECTOR, FFC 5P		JR1	1-216-864-11	SHORT CHIP	0
CN204	1-568-830-11	CONNECTOR, FFC 11P (EXCEPT AEP, UK)		JR7	1-216-864-11	SHORT CHIP	0
CN204	1-784-776-11	CONNECTOR, FFC 15P (AEP, UK)		JR101	1-216-864-11	SHORT CHIP	0
* CN301	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P		JR102	1-216-864-11	SHORT CHIP	0
* CN302	1-564-724-11	PIN, CONNECTOR (SMALL TYPE) 8P		JR103	1-216-296-11	SHORT CHIP	0
CN303	1-784-774-11	CONNECTOR, FFC 13P		JR104	1-216-296-11	SHORT CHIP	0
* CN304	1-568-449-11	HOUSING, CONNECTOR (PC BOARD) 3P		JR105	1-216-296-11	SHORT CHIP	0
CN371	1-779-295-11	CONNECTOR, FFC (LIF (NON-ZIF)) 21P		JR106	1-216-864-11	SHORT CHIP	0
CN372	1-779-289-11	CONNECTOR, FFC (LIF (NON-ZIF)) 27P		JR107	1-216-296-11	SHORT CHIP	0
CN401	1-785-316-11	PIN, CONNECTOR (STRAIGHT) 4P		JR108	1-216-296-11	SHORT CHIP	0
		< DIODE >		JR109	1-216-296-11	SHORT CHIP	0
D181	8-719-988-61	DIODE 1SS355TE-17		JR110	1-216-864-11	SHORT CHIP	0
D182	8-719-988-61	DIODE 1SS355TE-17		JR111	1-216-296-11	SHORT CHIP	0
D183	8-719-988-61	DIODE 1SS355TE-17		JR112	1-216-864-11	SHORT CHIP	0
D321	8-719-988-61	DIODE 1SS355TE-17		JR113	1-216-296-11	SHORT CHIP	0
D322	8-719-988-61	DIODE 1SS355TE-17		JR114	1-216-864-11	SHORT CHIP	0
D371	6-500-522-31	DIODE 10EDB40-TB5		JR115	1-216-296-11	SHORT CHIP	0
D372	6-500-522-31	DIODE 10EDB40-TB5		JR116	1-216-864-11	SHORT CHIP	0
D373	6-500-522-31	DIODE 10EDB40-TB5		JR117	1-216-296-11	SHORT CHIP	0
D391	8-719-988-61	DIODE 1SS355TE-17		JR118	1-216-864-11	SHORT CHIP	0
D392	8-719-988-61	DIODE 1SS355TE-17		JR119	1-216-864-11	SHORT CHIP	0
D393	8-719-988-61	DIODE 1SS355TE-17		JR120	1-216-864-11	SHORT CHIP	0
D394	8-719-988-61	DIODE 1SS355TE-17		JR121	1-216-864-11	SHORT CHIP	0
D395	8-719-988-61	DIODE 1SS355TE-17		JR122	1-216-296-11	SHORT CHIP	0
D396	8-719-988-61	DIODE 1SS355TE-17		JR123	1-216-864-11	SHORT CHIP	0
D397	8-719-988-61	DIODE 1SS355TE-17		JR124	1-216-296-11	SHORT CHIP	0
D903	6-500-522-31	DIODE 10EDB40-TB5		JR125	1-216-864-11	SHORT CHIP	0
D904	8-719-988-61	DIODE 1SS355TE-17		JR126	1-216-296-11	SHORT CHIP	0
D905	8-719-083-58	DIODE UDZSTE-173.9B		JR127	1-216-296-11	SHORT CHIP	0
		< EARTH TERMINAL >		JR128	1-216-864-11	SHORT CHIP	0
EP901	1-537-738-21	TERMINAL, GROUND		JR203	1-216-864-11	SHORT CHIP	0
		< FERRITE BEAD >		JR204	1-216-296-11	SHORT CHIP	0
FB30	1-469-125-21	FERRITE, EMI (SMD) (1608)		JR205	1-216-296-11	SHORT CHIP	0
FB34	1-469-125-21	FERRITE, EMI (SMD) (1608)		JR206	1-216-296-11	SHORT CHIP	0
FB50	1-469-125-21	FERRITE, EMI (SMD) (1608)		JR261	1-216-296-11	SHORT CHIP	0
FB54	1-469-125-21	FERRITE, EMI (SMD) (1608)		JR418	1-216-864-11	SHORT CHIP	0 (EXCEPT AEP, UK)
FB80	1-469-125-21	FERRITE, EMI (SMD) (1608)		JR449	1-216-864-11	SHORT CHIP	0 (EXCEPT AEP, UK)
FB84	1-469-125-21	FERRITE, EMI (SMD) (1608)				< COIL >	
FB371	1-216-864-11	SHORT CHIP	0	L301	1-410-780-11	INDUCTOR	27mH
FB372	1-216-864-11	SHORT CHIP	0				

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
L311	1-414-189-31	INDUCTOR 100uH		R21	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
L351	1-410-780-11	INDUCTOR 27mH		R22	1-216-837-11	METAL CHIP 22K 5%	1/10W
L370	1-412-064-11	INDUCTOR 100uH		R23	1-216-845-11	METAL CHIP 100K 5%	1/10W
L951	1-216-296-11	SHORT CHIP 0		R27	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
< TRANSISTOR >				R28	1-216-837-11	METAL CHIP 22K 5%	1/10W
Q1	6-550-889-01	TRANSISTOR 2SC5938-T112-1B		R29	1-216-845-11	METAL CHIP 100K 5%	1/10W
Q2	6-550-889-01	TRANSISTOR 2SC5938-T112-1B		R33	1-216-845-11	METAL CHIP 100K 5%	1/10W
Q21	8-729-027-43	TRANSISTOR DTC114EKA-T146		R34	1-216-837-11	METAL CHIP 22K 5%	1/10W
Q22	8-729-027-23	TRANSISTOR DTA114EKA-T146		R35	1-216-845-11	METAL CHIP 100K 5%	1/10W
Q25	8-729-027-43	TRANSISTOR DTC114EKA-T146		R36	1-216-837-11	METAL CHIP 22K 5%	1/10W
Q26	8-729-027-23	TRANSISTOR DTA114EKA-T146		R37	1-216-845-11	METAL CHIP 100K 5%	1/10W
Q29	8-729-027-43	TRANSISTOR DTC114EKA-T146		R38	1-216-837-11	METAL CHIP 22K 5%	1/10W
Q30	8-729-027-23	TRANSISTOR DTA114EKA-T146		R39	1-216-864-11	SHORT CHIP 0	
Q31	8-729-027-43	TRANSISTOR DTC114EKA-T146		R79	1-216-864-11	SHORT CHIP 0	
Q32	8-729-027-23	TRANSISTOR DTA114EKA-T146		R89	1-216-864-11	SHORT CHIP 0	
Q33	8-729-027-43	TRANSISTOR DTC114EKA-T146		R101	1-216-835-11	METAL CHIP 15K 5%	1/10W
Q34	8-729-027-23	TRANSISTOR DTA114EKA-T146		R102	1-216-841-11	METAL CHIP 47K 5%	1/10W
Q103	6-550-889-01	TRANSISTOR 2SC5938-T112-1B		R103	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
Q104	6-550-889-01	TRANSISTOR 2SC5938-T112-1B		R104	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
Q140	6-550-889-01	TRANSISTOR 2SC5938-T112-1B		R105	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q153	6-550-889-01	TRANSISTOR 2SC5938-T112-1B		R109	1-216-841-11	METAL CHIP 47K 5%	1/10W
Q154	6-550-889-01	TRANSISTOR 2SC5938-T112-1B		R110	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q270	6-550-889-01	TRANSISTOR 2SC5938-T112-1B		R111	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q271	6-550-889-01	TRANSISTOR 2SC5938-T112-1B		R112	1-216-834-11	METAL CHIP 12K 5%	1/10W
Q301	8-729-141-73	TRANSISTOR 2SC3624A-T1L15L16		R113	1-216-851-11	METAL CHIP 330K 5%	1/10W
Q302	8-729-141-73	TRANSISTOR 2SC3624A-T1L15L16		R114	1-216-812-11	METAL CHIP 180 5%	1/10W
Q303	8-729-141-73	TRANSISTOR 2SC3624A-T1L15L16		R118	1-216-809-11	METAL CHIP 100 5%	1/10W
Q311	8-729-216-22	TRANSISTOR 2SA1162-G		R119	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q312	8-729-027-43	TRANSISTOR DTC114EKA-T146		R121	1-216-861-11	METAL CHIP 2.2M 5%	1/10W
Q313	8-729-027-43	TRANSISTOR DTC114EKA-T146		R122	1-216-835-11	METAL CHIP 15K 5%	1/10W
Q314	8-729-027-23	TRANSISTOR DTA114EKA-T146		R123	1-216-857-11	METAL CHIP 1M 5%	1/10W
Q315	8-729-027-43	TRANSISTOR DTC114EKA-T146		R126	1-216-813-11	METAL CHIP 220 5%	1/10W
Q316	8-729-027-43	TRANSISTOR DTC114EKA-T146		R127	1-216-813-11	METAL CHIP 220 5%	1/10W
Q317	8-729-040-20	TRANSISTOR RT1P137L-TP		R129	1-216-835-11	METAL CHIP 15K 5%	1/10W
Q318	8-729-142-46	TRANSISTOR 2SC2001-LK		R130	1-216-809-11	METAL CHIP 100 5%	1/10W
Q321	8-729-027-43	TRANSISTOR DTC114EKA-T146		R131	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
Q322	8-729-140-04	TRANSISTOR 2SB1116A-L		R132	1-216-838-11	METAL CHIP 27K 5%	1/10W
Q323	8-729-027-43	TRANSISTOR DTC114EKA-T146		R133	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q324	8-729-140-04	TRANSISTOR 2SB1116A-L		R141	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q326	8-729-027-43	TRANSISTOR DTC114EKA-T146		R142	1-216-845-11	METAL CHIP 100K 5%	1/10W
Q327	8-729-140-04	TRANSISTOR 2SB1116A-L		R151	1-216-835-11	METAL CHIP 15K 5%	1/10W
Q341	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R152	1-216-841-11	METAL CHIP 47K 5%	1/10W
Q342	8-729-027-43	TRANSISTOR DTC114EKA-T146		R153	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
Q343	8-729-027-43	TRANSISTOR DTC114EKA-T146		R154	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
Q351	8-729-141-73	TRANSISTOR 2SC3624A-T1L15L16		R155	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q352	8-729-141-73	TRANSISTOR 2SC3624A-T1L15L16		R159	1-216-841-11	METAL CHIP 47K 5%	1/10W
Q353	8-729-141-73	TRANSISTOR 2SC3624A-T1L15L16		R160	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q391	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R161	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q906	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R162	1-216-834-11	METAL CHIP 12K 5%	1/10W
< RESISTOR >				R163	1-216-851-11	METAL CHIP 330K 5%	1/10W
R1	1-216-825-11	METAL CHIP 2.2K 5%	1/10W	R164	1-216-812-11	METAL CHIP 180 5%	1/10W
R2	1-216-833-11	METAL CHIP 10K 5%	1/10W	R168	1-216-809-11	METAL CHIP 100 5%	1/10W
R3	1-216-821-11	METAL CHIP 1K 5%	1/10W	R169	1-216-833-11	METAL CHIP 10K 5%	1/10W
R4	1-216-825-11	METAL CHIP 2.2K 5%	1/10W	R180	1-216-809-11	METAL CHIP 100 5%	1/10W
R5	1-216-833-11	METAL CHIP 10K 5%	1/10W	R186	1-216-864-11	SHORT CHIP 0	
R6	1-216-821-11	METAL CHIP 1K 5%	1/10W	R187	1-216-853-11	METAL CHIP 470K 5%	1/10W
				R188	1-216-815-11	METAL CHIP 330 5%	1/10W
				R189	1-216-841-11	METAL CHIP 47K 5%	1/10W

HCD-CP555/NXM1

MAIN

Ref. No.	Part No.	Description	Quantity	Unit	Percentage	Remarks	Ref. No.	Part No.	Description	Quantity	Unit	Percentage	Remarks
R191	1-216-821-11	METAL CHIP	1K		5%	1/10W	R347	1-216-825-11	METAL CHIP	2.2K		5%	1/10W
R192	1-216-845-11	METAL CHIP	100K		5%	1/10W	R351	1-216-829-11	METAL CHIP	4.7K		5%	1/10W
R241	1-216-864-11	SHORT CHIP	0				R352	1-216-829-11	METAL CHIP	4.7K		5%	1/10W
R243	1-216-864-11	SHORT CHIP	0				R353	1-216-821-11	METAL CHIP	1K		5%	1/10W
R246	1-216-833-11	METAL CHIP	10K		5%	1/10W	R354	1-216-835-11	METAL CHIP	15K		5%	1/10W
R247	1-216-833-11	METAL CHIP	10K		5%	1/10W	R355	1-216-829-11	METAL CHIP	4.7K		5%	1/10W
R270	1-216-825-11	METAL CHIP	2.2K		5%	1/10W	R356	1-216-832-11	METAL CHIP	8.2K		5%	1/10W
R272	1-216-821-11	METAL CHIP	1K		5%	1/10W	R357	1-216-833-11	METAL CHIP	10K		5%	1/10W
R273	1-216-825-11	METAL CHIP	2.2K		5%	1/10W	R359	1-216-825-11	METAL CHIP	2.2K		5%	1/10W
R275	1-216-821-11	METAL CHIP	1K		5%	1/10W	R377	1-216-833-11	METAL CHIP	10K		5%	1/10W
R294	1-216-821-11	METAL CHIP	1K		5%	1/10W	R378	1-216-833-11	METAL CHIP	10K		5%	1/10W
R296	1-216-833-11	METAL CHIP	10K		5%	1/10W	R379	1-216-833-11	METAL CHIP	10K		5%	1/10W
R298	1-216-821-11	METAL CHIP	1K		5%	1/10W	R380	1-216-833-11	METAL CHIP	10K		5%	1/10W
R299	1-216-833-11	METAL CHIP	10K		5%	1/10W	R381	1-216-833-11	METAL CHIP	10K		5%	1/10W
R301	1-216-829-11	METAL CHIP	4.7K		5%	1/10W	R382	1-216-833-11	METAL CHIP	10K		5%	1/10W
R302	1-216-829-11	METAL CHIP	4.7K		5%	1/10W	R383	1-216-833-11	METAL CHIP	10K		5%	1/10W
R303	1-216-821-11	METAL CHIP	1K		5%	1/10W	R384	1-216-833-11	METAL CHIP	10K		5%	1/10W
R304	1-216-835-11	METAL CHIP	15K		5%	1/10W	R385	1-216-833-11	METAL CHIP	10K		5%	1/10W
R305	1-216-829-11	METAL CHIP	4.7K		5%	1/10W	R386	1-216-833-11	METAL CHIP	10K		5%	1/10W
R306	1-216-832-11	METAL CHIP	8.2K		5%	1/10W	R387	1-216-833-11	METAL CHIP	10K		5%	1/10W
R307	1-216-833-11	METAL CHIP	10K		5%	1/10W	R388	1-216-833-11	METAL CHIP	10K		5%	1/10W
R309	1-216-825-11	METAL CHIP	2.2K		5%	1/10W	R391	1-216-833-11	METAL CHIP	10K		5%	1/10W
R311	1-216-833-11	METAL CHIP	10K		5%	1/10W	R392	1-216-837-11	METAL CHIP	22K		5%	1/10W
R312	1-216-833-11	METAL CHIP	10K		5%	1/10W	R393	1-216-837-11	METAL CHIP	22K		5%	1/10W
R313	1-216-833-11	METAL CHIP	10K		5%	1/10W	R394	1-216-829-11	METAL CHIP	4.7K		5%	1/10W
R314	1-216-841-11	METAL CHIP	47K		5%	1/10W	R395	1-216-813-11	METAL CHIP	220		5%	1/10W
R315	1-216-829-11	METAL CHIP	4.7K		5%	1/10W	R396	1-216-833-11	METAL CHIP	10K		5%	1/10W
R316	1-216-797-11	METAL CHIP	10		5%	1/10W	R401	1-216-809-11	METAL CHIP	100		5%	1/10W
R317	1-216-833-11	METAL CHIP	10K		5%	1/10W	R402	1-216-809-11	METAL CHIP	100		5%	1/10W
R318	1-216-805-11	METAL CHIP	47		5%	1/10W	R403	1-216-809-11	METAL CHIP	100		5%	1/10W
R319	1-216-827-11	METAL CHIP	3.3K		5%	1/10W	R404	1-216-809-11	METAL CHIP	100		5%	1/10W
R320	1-216-803-11	METAL CHIP	33		5%	1/10W	R405	1-216-809-11	METAL CHIP	100		5%	1/10W
R321	1-216-825-11	METAL CHIP	2.2K		5%	1/10W	R406	1-216-809-11	METAL CHIP	100		5%	1/10W
R322	1-216-825-11	METAL CHIP	2.2K		5%	1/10W	R407	1-216-809-11	METAL CHIP	100		5%	1/10W
R323	1-216-821-11	METAL CHIP	1K		5%	1/10W	R408	1-216-833-11	METAL CHIP	10K		5%	1/10W
R324	1-216-825-11	METAL CHIP	2.2K		5%	1/10W	R409	1-216-833-11	METAL CHIP	10K		5%	1/10W
R325	1-216-825-11	METAL CHIP	2.2K		5%	1/10W	R410	1-216-833-11	METAL CHIP	10K		5%	1/10W
R326	1-216-821-11	METAL CHIP	1K		5%	1/10W	R411	1-216-851-11	METAL CHIP	330K		5%	1/10W
R327	1-216-825-11	METAL CHIP	2.2K		5%	1/10W	R412	1-216-833-11	METAL CHIP	10K		5%	1/10W
R328	1-216-825-11	METAL CHIP	2.2K		5%	1/10W	R413	1-216-864-11	SHORT CHIP	0			
R329	1-216-841-11	METAL CHIP	47K		5%	1/10W	R414	1-216-833-11	METAL CHIP	10K		5%	1/10W
R330	1-216-829-11	METAL CHIP	4.7K		5%	1/10W	R415	1-216-833-11	METAL CHIP	10K		5%	1/10W
R331	1-216-841-11	METAL CHIP	47K		5%	1/10W	R416	1-216-833-11	METAL CHIP	10K		5%	1/10W
R332	1-216-829-11	METAL CHIP	4.7K		5%	1/10W	R417	1-216-833-11	METAL CHIP	10K		5%	1/10W
R333	1-216-841-11	METAL CHIP	47K		5%	1/10W	R418	1-216-809-11	METAL CHIP	100		5%	1/10W
R334	1-216-841-11	METAL CHIP	47K		5%	1/10W							(AEP, UK)
R335	1-216-841-11	METAL CHIP	47K		5%	1/10W	R419	1-216-809-11	METAL CHIP	100		5%	1/10W
R336	1-216-841-11	METAL CHIP	47K		5%	1/10W	R420	1-216-829-11	METAL CHIP	4.7K		5%	1/10W
R337	1-216-837-11	METAL CHIP	22K		5%	1/10W	R421	1-216-809-11	METAL CHIP	100		5%	1/10W
R338	1-216-833-11	METAL CHIP	10K		5%	1/10W	R422	1-216-809-11	METAL CHIP	100		5%	1/10W
R339	1-216-841-11	METAL CHIP	47K		5%	1/10W	R423	1-216-809-11	METAL CHIP	100		5%	1/10W
R340	1-216-829-11	METAL CHIP	4.7K		5%	1/10W	R424	1-216-809-11	METAL CHIP	100		5%	1/10W
R341	1-216-833-11	METAL CHIP	10K		5%	1/10W	R425	1-216-809-11	METAL CHIP	100		5%	1/10W
R342	1-216-829-11	METAL CHIP	4.7K		5%	1/10W	R426	1-216-809-11	METAL CHIP	100		5%	1/10W
R343	1-216-837-11	METAL CHIP	22K		5%	1/10W	R429	1-216-809-11	METAL CHIP	100		5%	1/10W
R344	1-216-833-11	METAL CHIP	10K		5%	1/10W	R430	1-216-809-11	METAL CHIP	100		5%	1/10W
R345	1-216-833-11	METAL CHIP	10K		5%	1/10W	R431	1-216-809-11	METAL CHIP	100		5%	1/10W
							R432	1-216-809-11	METAL CHIP	100		5%	1/10W

MAIN

MOTOR

PANEL

Ref. No.	Part No.	Description	Quantity	Percentage	Remarks
R433	1-216-809-11	METAL CHIP	100	5%	1/10W
R434	1-216-809-11	METAL CHIP	100	5%	1/10W
R435	1-216-809-11	METAL CHIP	100	5%	1/10W
R436	1-216-809-11	METAL CHIP	100	5%	1/10W
R437	1-216-809-11	METAL CHIP	100	5%	1/10W
R438	1-216-809-11	METAL CHIP	100	5%	1/10W
R439	1-216-809-11	METAL CHIP	100	5%	1/10W
R440	1-216-809-11	METAL CHIP	100	5%	1/10W
R441	1-216-809-11	METAL CHIP	100	5%	1/10W
R442	1-216-809-11	METAL CHIP	100	5%	1/10W
R443	1-216-809-11	METAL CHIP	100	5%	1/10W
R444	1-216-809-11	METAL CHIP	100	5%	1/10W
R445	1-216-809-11	METAL CHIP	100	5%	1/10W
R446	1-216-809-11	METAL CHIP	100	5%	1/10W
R447	1-216-809-11	METAL CHIP	100	5%	1/10W
R448	1-216-809-11	METAL CHIP	100	5%	1/10W
R449	1-216-809-11	METAL CHIP	100	5%	1/10W (AEP, UK)
R450	1-216-809-11	METAL CHIP	100	5%	1/10W
R451	1-216-809-11	METAL CHIP	100	5%	1/10W
R452	1-216-809-11	METAL CHIP	100	5%	1/10W
R453	1-216-809-11	METAL CHIP	100	5%	1/10W
R454	1-216-809-11	METAL CHIP	100	5%	1/10W
R455	1-216-809-11	METAL CHIP	100	5%	1/10W
R465	1-216-809-11	METAL CHIP	100	5%	1/10W
R466	1-216-833-11	METAL CHIP	10K	5%	1/10W
R467	1-216-833-11	METAL CHIP	10K	5%	1/10W
R468	1-216-833-11	METAL CHIP	10K	5%	1/10W
R469	1-216-833-11	METAL CHIP	10K	5%	1/10W
R470	1-216-809-11	METAL CHIP	100	5%	1/10W
R471	1-216-809-11	METAL CHIP	100	5%	1/10W
R472	1-216-809-11	METAL CHIP	100	5%	1/10W
R473	1-216-809-11	METAL CHIP	100	5%	1/10W
R474	1-216-809-11	METAL CHIP	100	5%	1/10W
R476	1-216-809-11	METAL CHIP	100	5%	1/10W
R477	1-216-809-11	METAL CHIP	100	5%	1/10W
R478	1-216-809-11	METAL CHIP	100	5%	1/10W
R479	1-216-809-11	METAL CHIP	100	5%	1/10W
R482	1-216-809-11	METAL CHIP	100	5%	1/10W
R483	1-216-809-11	METAL CHIP	100	5%	1/10W
R484	1-216-809-11	METAL CHIP	100	5%	1/10W
R485	1-216-809-11	METAL CHIP	100	5%	1/10W
R486	1-216-809-11	METAL CHIP	100	5%	1/10W
R489	1-216-809-11	METAL CHIP	100	5%	1/10W
R490	1-216-809-11	METAL CHIP	100	5%	1/10W
R492	1-216-811-11	METAL CHIP	150	5%	1/10W (RU)
R492	1-216-821-11	METAL CHIP	1K	5%	1/10W (E51)
R492	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (E3, EA)
R492	1-216-864-11	SHORT CHIP	0		(AEP, UK)
R493	1-216-809-11	METAL CHIP	100	5%	1/10W
R494	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R495	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R496	1-216-821-11	METAL CHIP	1K	5%	1/10W (EA)

Ref. No.	Part No.	Description	Quantity	Percentage	Remarks
R496	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (EXCEPT E3, EA)
R496	1-216-864-11	SHORT CHIP	0 (E3)		
R497	1-216-833-11	METAL CHIP	10K	5%	1/10W
R498	1-216-797-11	METAL CHIP	10	5%	1/10W
R499	1-216-797-11	METAL CHIP	10	5%	1/10W
R914	1-216-821-11	METAL CHIP	1K	5%	1/10W
R915	1-216-821-11	METAL CHIP	1K	5%	1/10W
R952	1-216-809-11	METAL CHIP	100	5%	1/10W
R955	1-216-809-11	METAL CHIP	100	5%	1/10W
R956	1-216-809-11	METAL CHIP	100	5%	1/10W
R957	1-216-809-11	METAL CHIP	100	5%	1/10W
R958	1-216-809-11	METAL CHIP	100	5%	1/10W
R959	1-216-809-11	METAL CHIP	100	5%	1/10W
R969	1-216-833-11	METAL CHIP	10K	5%	1/10W
R970	1-216-833-11	METAL CHIP	10K	5%	1/10W
< TRANSFORMER >					
T301	1-433-372-11	TRANSFORMER, BIAS OSCILLATION			
< VIBRATOR >					
X401	1-567-098-41	VIBRATOR, CRYSTAL (32.768kHz)			
X402	1-795-482-11	VIBRATOR, CERAMIC (16MHz)			

MOTOR BOARD					

< SWITCH >					
S761	1-786-704-11	SWITCH, LEVER (SUB TRAY OUT)			

A-4750-849-A PANEL BOARD, COMPLETE					

< CAPACITOR >					
C1006	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1021	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1025	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C1026	1-126-964-11	ELECT	10uF	20%	50V
C1028	1-126-964-11	ELECT	10uF	20%	50V
C1029	1-131-992-91	CERAMIC CHIP	100000PF		35V
C1048	1-131-992-91	CERAMIC CHIP	100000PF		35V
C1050	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1051	1-126-969-11	ELECT	220uF	20%	50V
C1052	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1053	1-126-965-91	ELECT	22uF	20%	50V
C1054	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
< CONNECTOR >					
CN1021	1-784-774-11	CONNECTOR, FFC 13P			
< DIODE >					
D1021	8-719-058-03	DIODE SEL5423E-TP15 (◀▶)			
D1022	8-719-059-18	DIODE RD6.2FM-T1			
D1023	8-719-988-61	DIODE 1SS355TE-17			
D1024	8-719-988-61	DIODE 1SS355TE-17			
D1025	8-719-988-61	DIODE 1SS355TE-17			

HCD-CP555/NXM1

PANEL **RELAY**

Ref. No.	Part No.	Description	Remarks
D1026	8-719-988-61	DIODE 1SS355TE-17 < FILTER >	
FL1020	1-518-979-11	INDICATOR TUBE, FLUORESCENT < IC >	
IC1020	6-705-745-01	IC M66005-0131AHPRB0T < COIL >	
L1021	1-410-671-31	INDUCTOR 47uH < TRANSISTOR >	
Q1021	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1022	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1023	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1024	6-550-065-01	TRANSISTOR CPH5504-TL-E	
Q1026	8-729-027-43	TRANSISTOR DTC114EKA-T146 < RESISTOR >	
R1020	1-216-809-11	METAL CHIP 100 5% 1/10W	
R1021	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1022	1-216-809-11	METAL CHIP 100 5% 1/10W	
R1023	1-216-809-11	METAL CHIP 100 5% 1/10W	
R1024	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1025	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R1026	1-216-813-11	METAL CHIP 220 5% 1/10W	
R1027	1-216-815-11	METAL CHIP 330 5% 1/10W	
R1028	1-216-817-11	METAL CHIP 470 5% 1/10W	
R1029	1-216-819-11	METAL CHIP 680 5% 1/10W	
R1030	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1031	1-216-823-11	METAL CHIP 1.5K 5% 1/10W	
R1032	1-216-864-11	SHORT CHIP 0	
R1033	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R1034	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R1035	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R1036	1-216-823-11	METAL CHIP 1.5K 5% 1/10W	
R1037	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R1038	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R1039	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R1040	1-216-839-11	METAL CHIP 33K 5% 1/10W	
R1041	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R1042	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R1043	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R1045	1-216-827-11	METAL CHIP 3.3K 5% 1/10W	
R1046	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R1051	1-216-809-11	METAL CHIP 100 5% 1/10W	
R1052	1-216-809-11	METAL CHIP 100 5% 1/10W	
R1100	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R1101	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R1102	1-216-833-11	METAL CHIP 10K 5% 1/10W < SWITCH >	
S1021	1-762-875-21	SWITCH, KEYBOARD (CD)	
S1022	1-762-875-21	SWITCH, KEYBOARD (TUNER/BAND)	
S1023	1-762-875-21	SWITCH, KEYBOARD (TAPE A/B)	

Ref. No.	Part No.	Description	Remarks
S1024	1-762-875-21	SWITCH, KEYBOARD (VIDEO(MD))	
S1025	1-762-875-21	SWITCH, KEYBOARD (DIMMER)	
S1026	1-762-875-21	SWITCH, KEYBOARD (CD SYNC)	
S1027	1-762-875-21	SWITCH, KEYBOARD (●/START)	
S1028	1-762-875-21	SWITCH, KEYBOARD (DISPLAY)	
S1029	1-762-875-21	SWITCH, KEYBOARD (◀▶)	
S1030	1-762-875-21	SWITCH, KEYBOARD (CD ▲)	
S1031	1-762-875-21	SWITCH, KEYBOARD (■)	
S1032	1-762-875-21	SWITCH, KEYBOARD (▶▶▶▶ TUNING +)	
S1033	1-762-875-21	SWITCH, KEYBOARD (◀◀◀◀ TUNING -)	
S1034	1-762-875-21	SWITCH, KEYBOARD (ALBUM +)	
S1035	1-762-875-21	SWITCH, KEYBOARD (ALBUM -)	
S1036	1-762-875-21	SWITCH, KEYBOARD (■) < TRANSFORMER >	
T801	1-443-389-11	TRANSFORMER, DC-DC CONVERTER *****	
A-4750-232-A		RELAY BOARD, COMPLETE *****	
		< CAPACITOR >	
C701	1-126-786-11	ELECT 47uF 20% 16V	
C702	1-126-791-11	ELECT 10uF 20% 35V	
C761	1-162-306-11	CERAMIC 0.01uF 20% 16V	
C762	1-162-306-11	CERAMIC 0.01uF 20% 16V	
		< CONNECTOR >	
CN701	1-779-558-21	CONNECTOR, FFC (LIF (NON-ZIF)) 21P	
		< DIODE >	
D701	8-719-921-40	DIODE MTZJ-4.7C	
D711	8-719-982-10	DIODE MTZJ-4.3A	
		< IC >	
IC701	8-759-598-69	IC BA6956AN	
IC711	8-759-598-69	IC BA6956AN	
		< TRANSISTOR >	
Q751	8-729-119-78	TRANSISTOR 2SC2785-HFE	
		< RESISTOR >	
R701	1-249-415-11	CARBON 680 5% 1/4W	
R702	1-247-807-31	CARBON 100 5% 1/4W	
R711	1-249-415-11	CARBON 680 5% 1/4W	
R712	1-247-807-31	CARBON 100 5% 1/4W	
R751	1-247-806-11	CARBON 91 5% 1/4W	
R752	1-249-429-11	CARBON 10K 5% 1/4W	
R753	1-249-429-11	CARBON 10K 5% 1/4W	
R754	1-249-430-11	CARBON 12K 5% 1/4W	
R755	1-249-429-11	CARBON 10K 5% 1/4W *****	

SENSOR	SW (1)	SW (2)	VOL
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Ref. No.	Part No.	Description	Remarks
		SENSOR BOARD *****	
		< IC >	
IC751	8-759-989-76	IC RPR-359F *****	
	1-861-241-12	SW (1) BOARD *****	
		< SWITCH >	
S721	1-786-084-11	SWITCH, DETECTION (MAIN TRAY IN/OUT) *****	
	1-861-242-12	SW (2) BOARD *****	
		< SWITCH >	
S731	1-786-382-11	SWITCH, PUSH (1 KEY) (SUB TRAY IN) *****	
	A-4750-851-A	VOL BOARD, COMPLETE *****	
		< CAPACITOR >	
C1007	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C1008	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C1013	1-126-947-11	ELECT 47uF	20% 35V
		< CONNECTOR >	
CN1050	1-784-776-11	CONNECTOR, FFC 15P	
CN1051	1-784-766-11	CONNECTOR, FFC 5P	
		< DIODE >	
D1050	8-719-071-44	DIODE SELS5223C-TP15 (I/⊕)	
D1051	8-719-988-61	DIODE 1SS355TE-17	
		< IC >	
IC1050	6-600-349-31	IC NJL24H400A *****	
		< TRANSISTOR >	
Q1041	8-729-027-43	TRANSISTOR DTC114EKA-T146	
		< RESISTOR >	
R1048	1-216-864-11	SHORT CHIP	0
R1049	1-216-821-11	METAL CHIP	1K 5% 1/10W
R1050	1-216-823-11	METAL CHIP	1.5K 5% 1/10W
R1059	1-216-805-11	METAL CHIP	47 5% 1/10W
R1090	1-216-821-11	METAL CHIP	1K 5% 1/10W
R1091	1-216-821-11	METAL CHIP	1K 5% 1/10W
R1092	1-216-821-11	METAL CHIP	1K 5% 1/10W
R1093	1-216-821-11	METAL CHIP	1K 5% 1/10W
R1094	1-216-821-11	METAL CHIP	1K 5% 1/10W
R1095	1-216-821-11	METAL CHIP	1K 5% 1/10W
		< SWITCH >	
S1042	1-762-875-21	SWITCH, KEYBOARD (I/⊕)	
S1043	1-762-875-21	SWITCH, KEYBOARD (DSGX)	

Ref. No.	Part No.	Description	Remarks
S1050	1-786-418-11	SWITCH, ROTARY (ENCODER) (BASS)	
S1051	1-786-418-11	SWITCH, ROTARY (ENCODER) (TREBLE)	
S1052	1-418-725-51	ENCODER, ROTARY (12 TYPE) (VOLUME)	

		MISCELLANEOUS *****	
3	1-769-984-11	WIRE (FLAT TYPE) (13 CORE)	
4	1-765-332-11	WIRE (FLAT TYPE) (15 CORE)	
5	1-769-869-11	WIRE (FLAT TYPE) (5 CORE)	
6	1-769-939-11	WIRE (FLAT TYPE) (11 CORE) (EXCEPT AEP, UK)	
6	1-773-003-11	WIRE (FLAT TYPE) (15 CORE) (AEP, UK)	
11	1-693-603-31	TUNER (FM/AM) (E3, E51, EA)	
11	1-693-604-11	TUNER (FM/AM) (AEP, UK)	
11	1-693-654-11	TUNER (FM/AM) (NXM1)	
59	1-796-902-11	DECK, MECHANISM (W)	
△ 102	1-468-812-11	REGULATOR, SWITCHING (AEP, UK, RU)	
△ 102	1-468-824-11	REGULATOR, SWITCHING (E3, E51, EA)	
△ 103	1-775-786-21	CORD, POWER (UK, EA)	
△ 103	1-777-071-53	CORD, POWER (AEP, E51, RU)	
△ 103	1-827-226-11	CORD, POWER (E3)	
162	1-471-035-11	MAGNET ASSY	
256	1-827-992-11	WIRE (FLAT TYPE) (16 CORE)	
△ 259	8-820-244-01	OPTICAL PICK-UP (KSM-215DCP/C2NP)	
M761	A-4713-174-A	MOTOR (81) ASSY (LD/ST MOTOR)	
M762	A-4713-174-A	MOTOR (81) ASSY (BU U/D MOTOR)	
M961	1-787-099-11	FAN, DC	
S771	1-478-552-11	ENCODER, ROTARY (ST U/D)	

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

