

CX-JDS20/JDS50

SERVICE MANUAL

Ver. 1.0 2005.03



Photo : CX-JDS50

CX-JDS20/JDS50 are the Amplifier, CD player, Tape Deck and Tuner section in DBX-DS20/DBX-DS50.

AEP Model
CX-JDS20

E Model
CX-JDS20/JDS50

Australian Model
CX-JDS20

Russian Model
CX-JDS20/JDS50

CD Section	Model Name Using Similar Mechanism		NEW
	CD Mechanism Type		BU-F1BD81A
	Optical Pick-up Name		KSM-215DCP/C2NP
TAPE Section	Model Name Using Similar Mechanism		CX-LEM330
	Tape Transport Mechanism Type	JDS20	CMAL5Z220A
		JDS50	CMAL1Z240A

SPECIFICATIONS

Amplifier section

European model:

JDS20

DIN power output (rated): 96 + 96 watts (6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference): 120 + 120 watts (6 ohms at 1 kHz, 10% THD)
Music power output (reference): 180 + 180 watts (6 ohms at 1 kHz, 10% THD)

Russian model:

JDS50

DIN power output (rated): 160 + 160 watts (6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference): 200 + 200 watts (6 ohms at 1 kHz, 10% THD)
Music power output (reference): 330 + 330 watts (6 ohms at 1 kHz, 10% THD)

JDS20

DIN power output (rated): 96 + 96 watts (6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference): 120 + 120 watts (6 ohms at 1 kHz, 10% THD)
Music power output (reference): 180 + 180 watts (6 ohms at 1 kHz, 10% THD)

Other models:

JDS50

The following measured at AC 120, 127, 220, 240 V 50/60 Hz
DIN power output (rated): 160 + 160 watts (6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference): 200 + 200 watts (6 ohms at 1 kHz, 10% THD)

JDS20

The following measured at AC 120, 127, 220, 240 V 50/60 Hz
DIN power output (rated): 96 + 96 watts (6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference): 120 + 120 watts (6 ohms at 1 kHz, 10% THD)

Inputs

AUDIO IN (stereo mini jack):

voltage :
JDS20: 1.85 V
JDS50: 0.9 V,
impedance 47 kilohms
MIC (phone jack) (except for European model):
sensitivity:
JDS20: 0.25 mV
JDS50: 0.1 mV,
impedance 10 kilohms

Outputs

PHONES (stereo mini jack):

accepts headphones of 8 ohms or more
SPEAKER: accepts impedance of 6 to 16 ohms

— Continued on next page —

COMPACT DISC DECK RECEIVER



CX-JDS20/JDS50

CD player section

System	Compact disc and digital audio system
Laser Diode Properties	Emission duration: continuous Laser Output: Less than 44.6 μW (This output is the value measurement at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block with 7 mm aperture)
Frequency response	2 Hz – 20 kHz (±0.5 dB)
Signal-to-noise ratio	More than 90 dB
Dynamic range	More than 90 dB

Tape deck section

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

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range	87.5 – 108.0 MHz (50 kHz step)
Antenna	FM lead antenna
Antenna terminals	75 ohms unbalanced
Intermediate frequency	10.7 MHz

AM tuner section

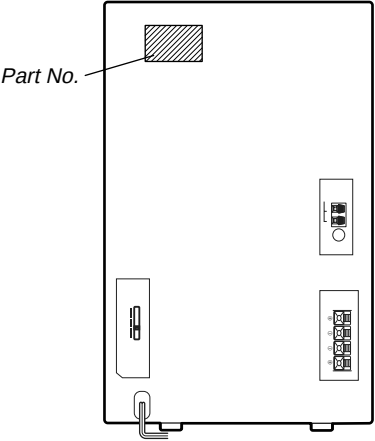
Tuning range	
European and Russian models:	531 – 1,602 kHz (with the tuning interval set at 9 kHz)
Pan-American models:	530 – 1,710 kHz (with the tuning interval set at 10 kHz) 531 – 1,710 kHz (with the tuning interval set at 9 kHz)
Other models:	530 – 1,710 kHz (with the tuning interval set at 10 kHz) 531 – 1,602 kHz (with the tuning interval set at 9 kHz)
Antenna	AM loop antenna
Antenna terminals	External antenna terminal
Intermediate frequency	450 kHz

General

Power requirements	
European and Russian models:	230 V AC, 50/60 Hz
Australian model:	230 – 240 V AC, 50/60 Hz
Argentine model:	220 V AC, 50/60 Hz
Mexican model:	127 V AC, 60 Hz
Other models:	120 V, 220 V or 230 – 240 V AC, 50/60 Hz Adjustable with voltage selector
Power consumption	
European model:	
JDS20:	198 watts 0.25 watts (at the Power Saving Mode)
Other models:	
JDS50:	160 watts
JDS20:	198 watts
Dimensions (w/h/d) (excl. speakers):	Approx. 230 × 365.5 × 409 mm
Mass (excl. speakers)	Approx. 9.1 kg

Design and specifications are subject to change without notice.

MODEL IDENTIFICATION
– BACK PANEL –



Model	Part No.
JDS50: MX model	2-595-343-0□
JDS20: MX model	2-595-345-0□
JDS50: E51 model	2-595-523-0□
JDS20: E51 model	2-595-525-0□
JDS50: RU model	2-599-602-0□
JDS20: AEP, RU models	2-599-608-0□
JDS20: AUS model	2-599-613-0□

SAFETY-RELATED COMPONENT WARNING!!

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

- Abbreviation
 - AUS : Australian model
 - E51 : Chilean and Peruvian models
 - MX : Mexican model
 - RU : Russian model

The release method of a CD disc tray LOCK function

There is a disc lock function for the disc theft prevention for a demonstration at a shop front in this machine.

Procedue:

1. Press the  button to turn the set on.
2. Press two buttons of  and  simultaneously for five seconds.
3. The message "LOCKED" is displayed and the tray is locked. (Even if exiting from this mode, the tray is still locked.)
4. Press two buttons of  and  simultaneously for five seconds again.
5. The message "UNLOCKED" is displayed and the tray is unlocked.
6. To exit from this mode, press the  button to turn the set off.

UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.

(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size)



LF : LEAD FREE MARK

Unleaded solder has the following characteristics.

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

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

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.

During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.

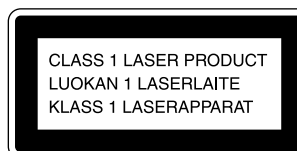
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

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

This appliance is classified as a CLASS 1 LASER product.

The CLASS 1 LASER PRODUCT MARKING is located on the exterior.



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

CAUTION

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

Notes on chip component replacement

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

Flexible Circuit Board Repairing

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

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SECTION 1
GENERAL

This section is extracted from instruction manual.

List of button locations and reference pages

How to use this page	Illustration number
Use this page to find the location of buttons and other parts of the system that are mentioned in the text.	TUNER/BAND 26 (14, 15)
Name of button/part	Reference page

Main unit

ALPHABETICAL ORDER

A - N

- AUDIO IN jack 20 (28)
- BASS control 14 (21)
- CANCEL 29 (11)
- CD SYNC 28 (18)
- Cassette compartment 16 (17)
- DISC 1 - 3 4 (10)
- DISC SKIP/EX-CHANGE 5 (10, 13, 18)
- Disc tray 6 (9)
- DISPLAY 13 (16, 25, 26)
- Display window 3
- ENTER 24 (11, 13, 14)
- EQ 10 (20)
- FM MODE 23 (16)
- FUNCTION 27 (9, 13, 14, 15, 17, 18, 19, 21, 28)
- i-Bass 9 (20, 31)

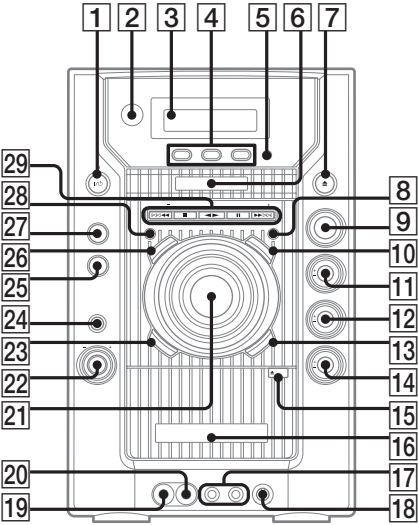
M - Z

- MIC jack¹⁾ 17 (21)
- MIC LEVEL¹⁾ 18 (21)
- MIDDLE control 12 (21)
- Jog dial 22 (11, 13)
- PHONES jack 19
- PLAY MODE 25 (10, 13, 17)
- REC PAUSE/START 8 (18, 19, 21)
- Remote sensor 2
- REP 23 (12)
- TREBLE control 11 (21)
- TUNER/BAND 26 (14, 15)
- TUNING +/- 29 (14, 15)
- TUNING MODE 25 (14, 15)
- VOLUME control 21 (27)

BUTTON DESCRIPTIONS

- I/⏻ (power) 1 (7, 15)
- ⏏ (eject) 7 (9)
- ⏏ PUSH (eject) 15 (17)
- ⏮⏪⏩⏭ (rewind/fast forward, go back/go forward) 29 (10, 17)
- (stop) 29 (10, 17, 18, 21, 27, 31)
- ▶²⁾ or ◀³⁾ (play) 29 (10, 17, 18)
- ⏸ (pause) 29 (10, 17, 31)

¹⁾ Except for European model
²⁾ DBX-DS20
³⁾ DBX-DS50



Remote control

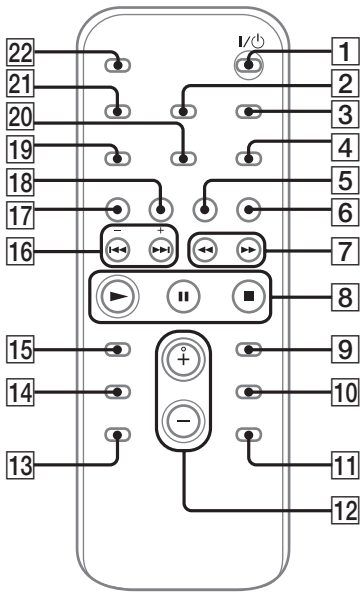
ALPHABETICAL ORDER

- A - E**
- CD **18** (9, 12)
 - CLEAR **15** (13)
 - CLOCK/TIMER SELECT **2** (24, 25)
 - CLOCK/TIMER SET **3** (8, 23, 24)
 - DISC SKIP **10** (10, 12)
 - DISPLAY **21** (16, 25, 26)
 - ENTER **9** (8, 12, 14, 23, 24)
 - EQ **14** (20)

- F - Z**
- FM MODE **4** (16)
 - FOLDER + **11** (10, 12, 18)
 - FOLDER - **13** (10, 12, 18)
 - FUNCTION **6** (9, 12, 14, 15, 17, 28)
 - PLAY MODE **20** (10, 12, 17)
 - REPEAT **4** (12)
 - SLEEP **22** (23)
 - TAPE **17** (17)
 - TUNER BAND **5** (14, 15)
 - TUNER MEMORY **19** (14)
 - TUNING MODE **20** (14, 15)
 - VOLUME +/- **12** (23)

BUTTON DESCRIPTIONS

- I/⏻ (power) **1** (7, 24)
- ◀◀/▶▶ (rewind/fast forward) **7** (10, 17)
- ▶ (play) **8** (10, 17)
- ⏸ (pause) **8** (10, 17)
- (stop) **8** (10, 17)
- +/- (tuning) **16** (14)
- ◀◀/▶▶ (go back/go forward) **16** (8, 10, 23)



Setting the clock

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

To adjust the clock

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

Notes

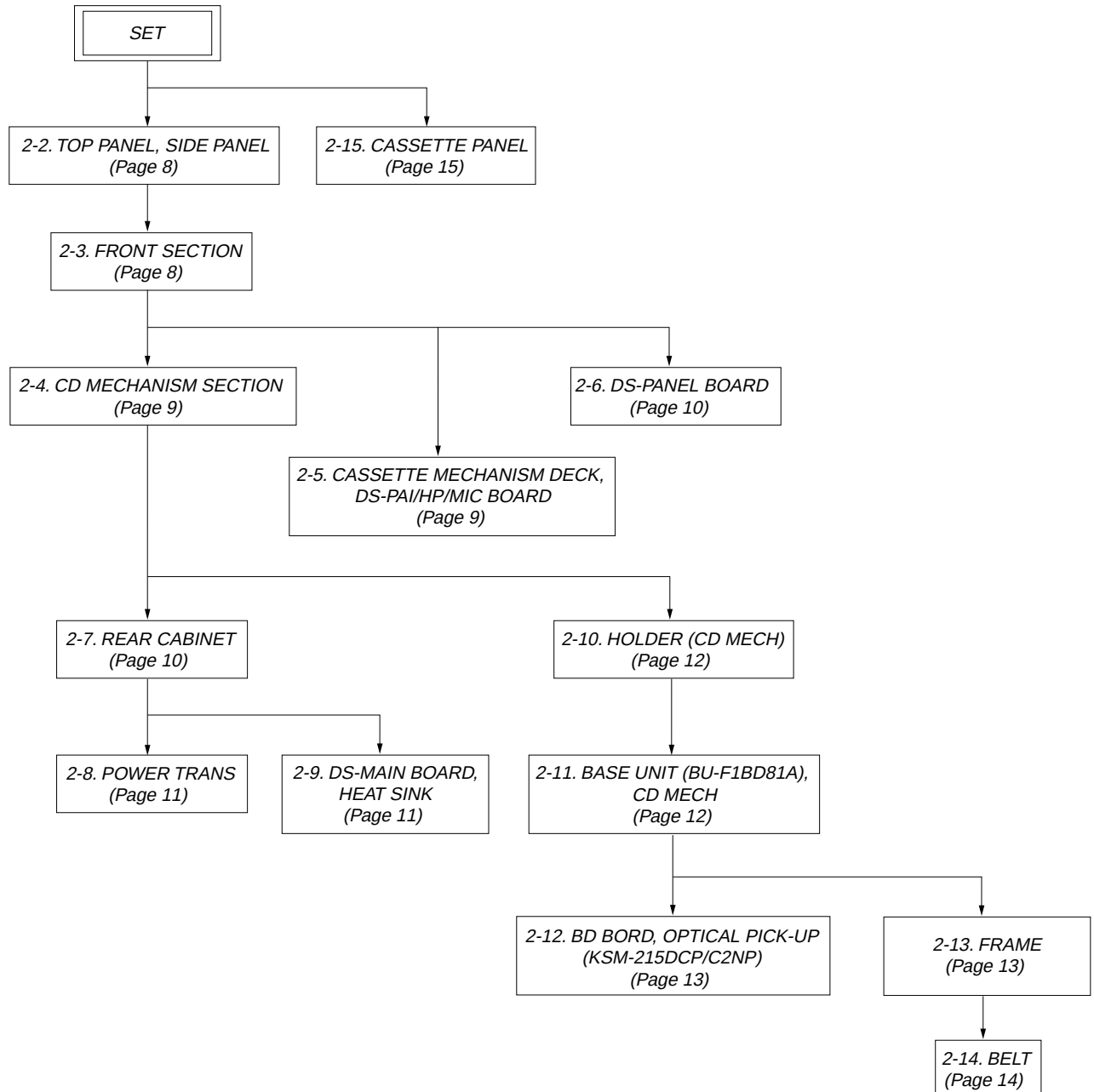
The clock settings are canceled when you disconnect the power cord or if a power failure occurs.

You cannot set the clock in Power Saving Mode (page 25).

SECTION 2 DISASSEMBLY

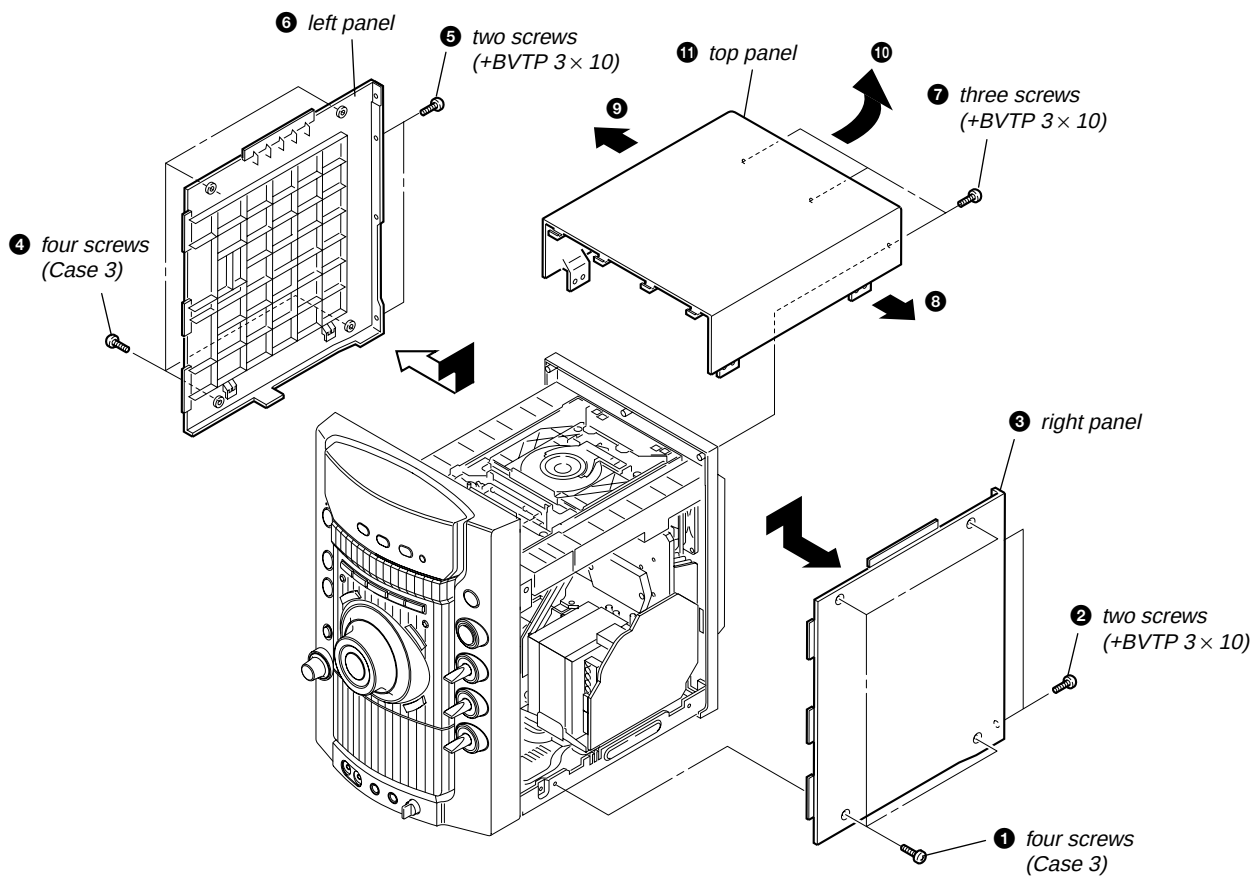
2-1. DISASSEMBLY FLOW

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

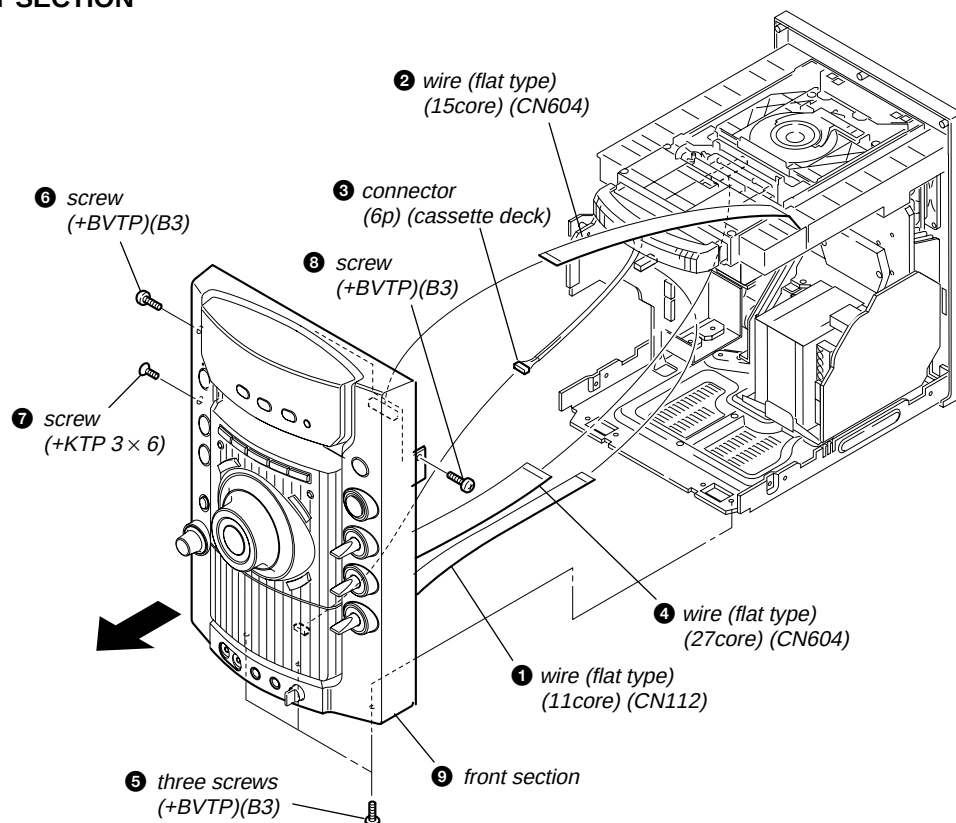


Note: Follow the disassembly procedure in the numerical order given.

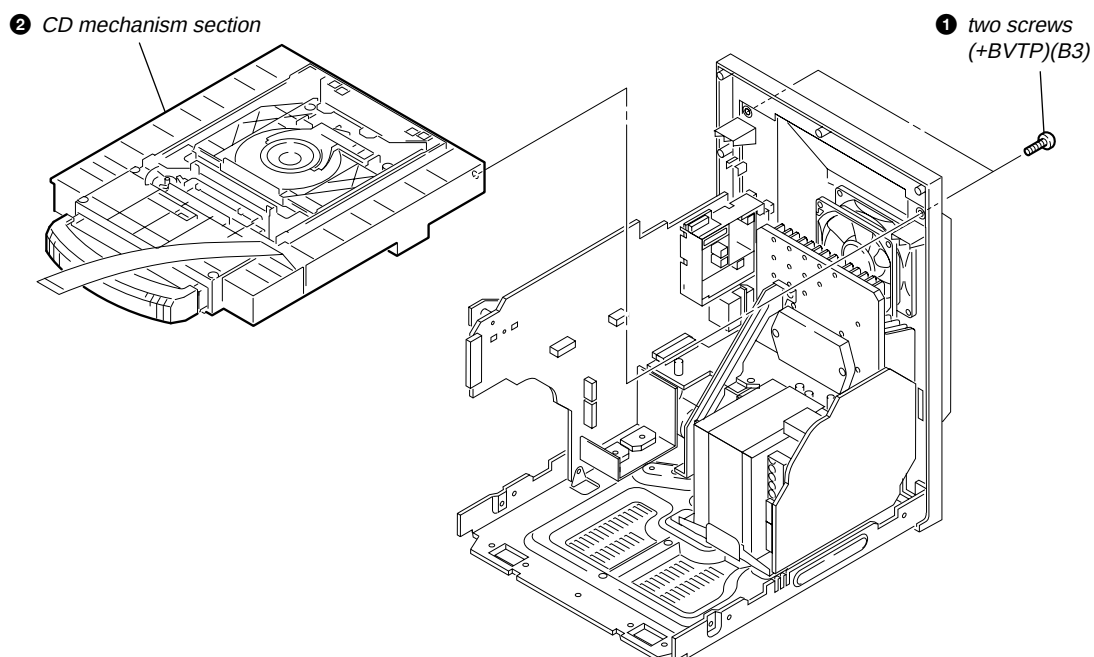
2-2. TOP PANEL, SIDE PANEL



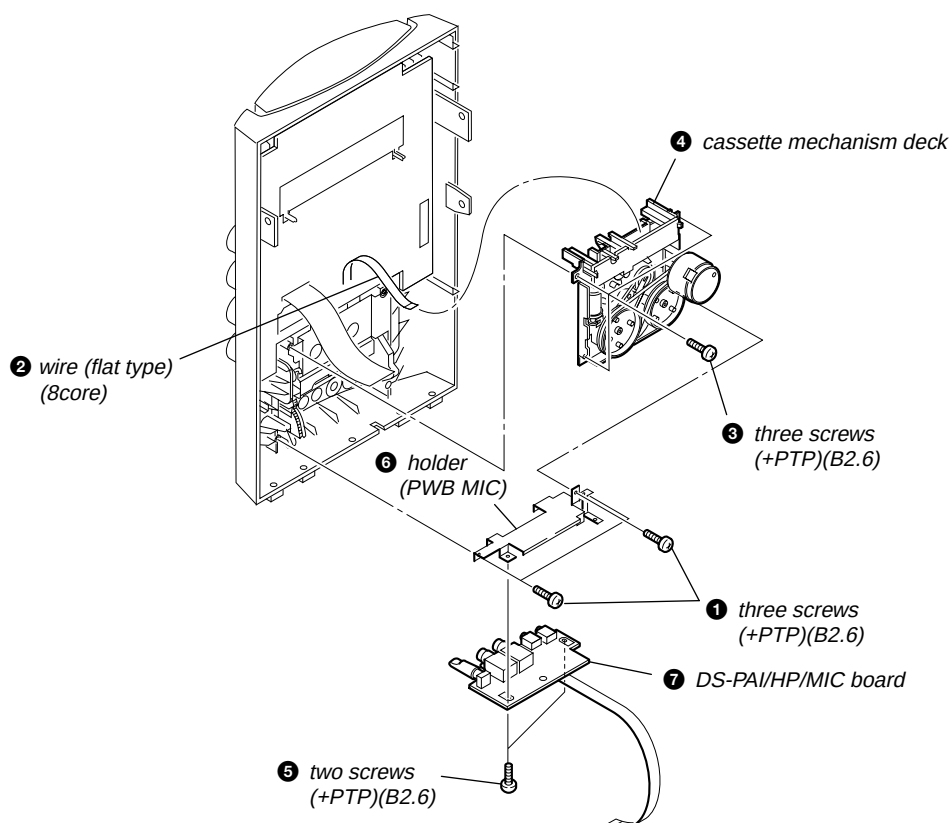
2-3. FRONT SECTION



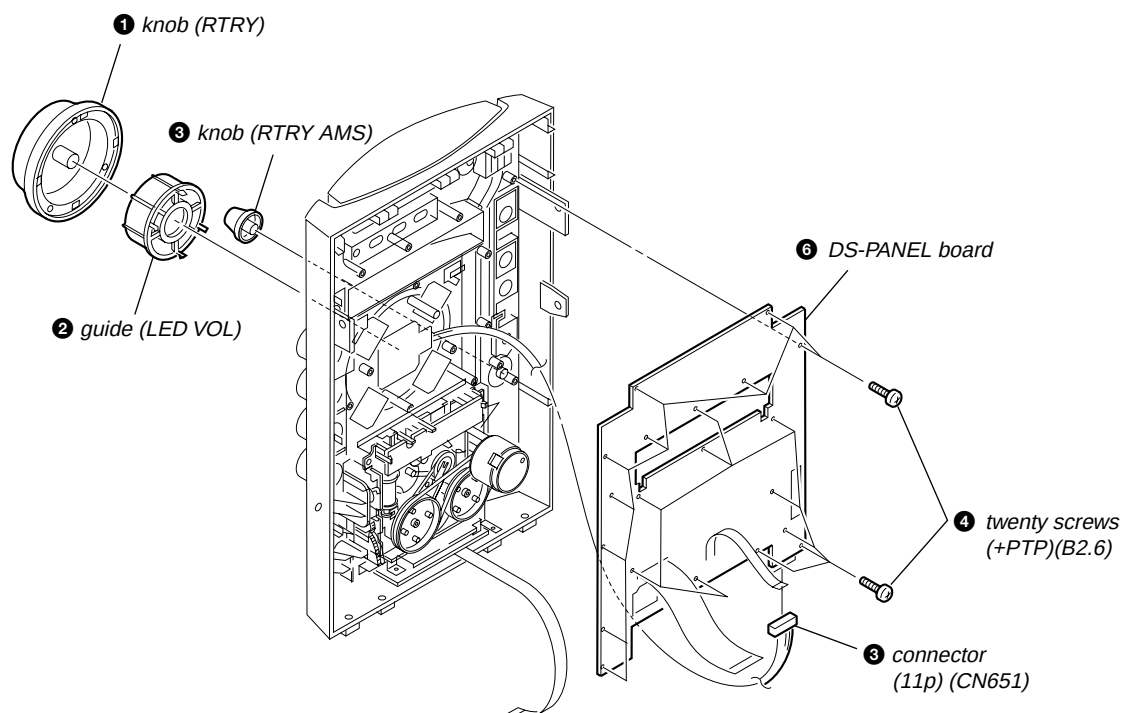
2-4. CD MECHANISM SECTION



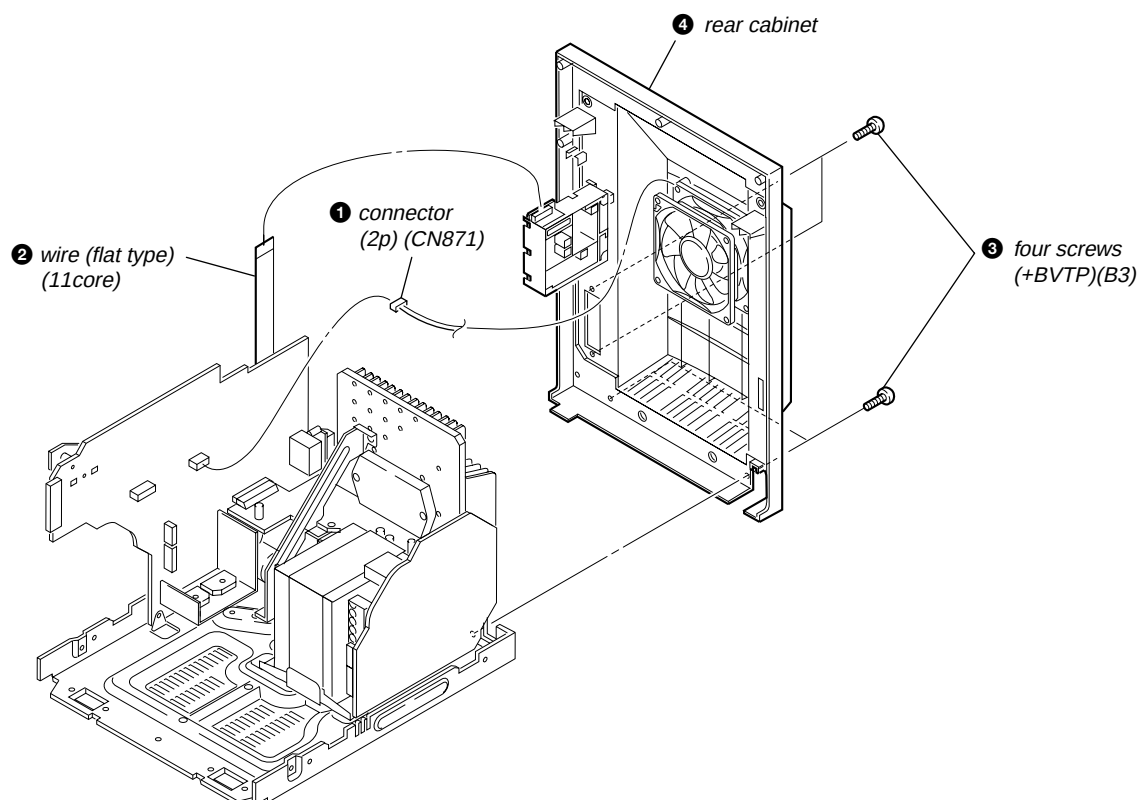
2-5. CASSETTE MECHANISM DECK, DS-PAI/HP/MIC BOARD



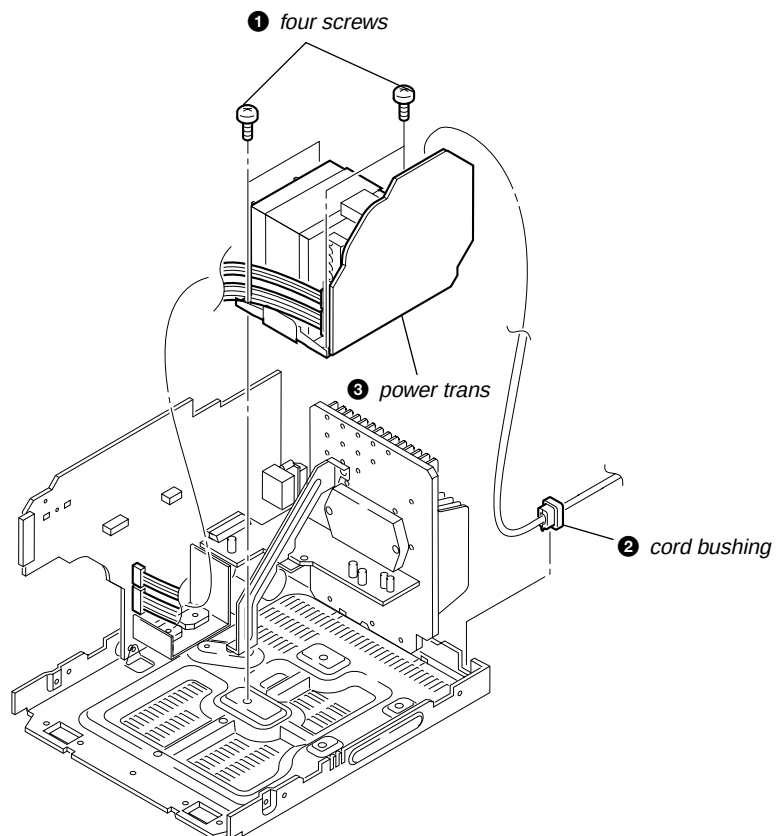
2-6. DS-PANEL BOARD



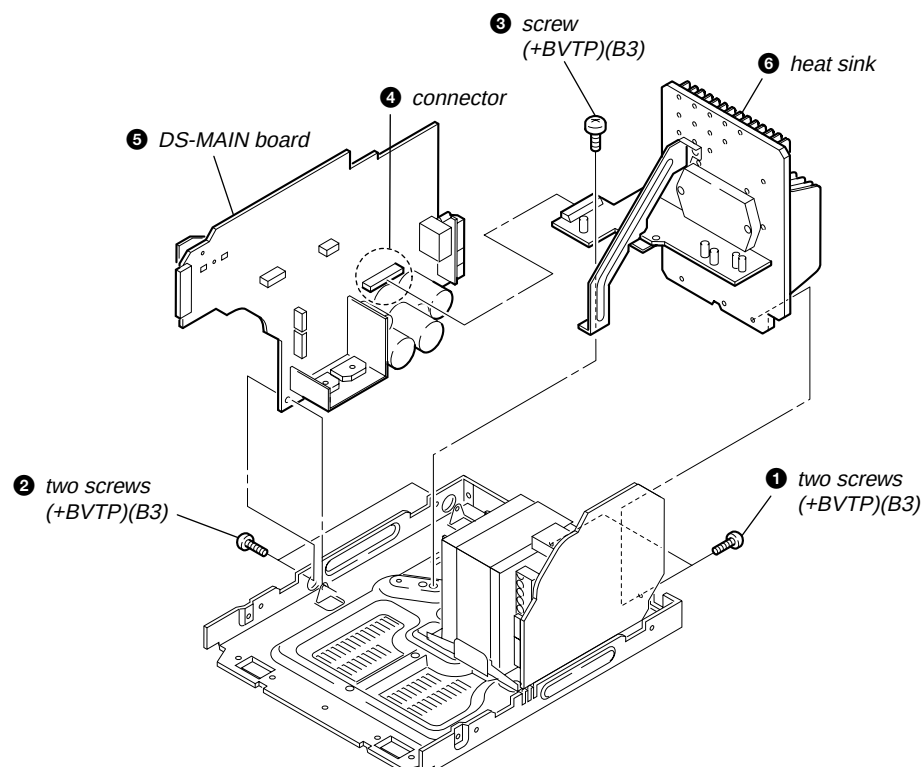
2-7. REAR CABINET



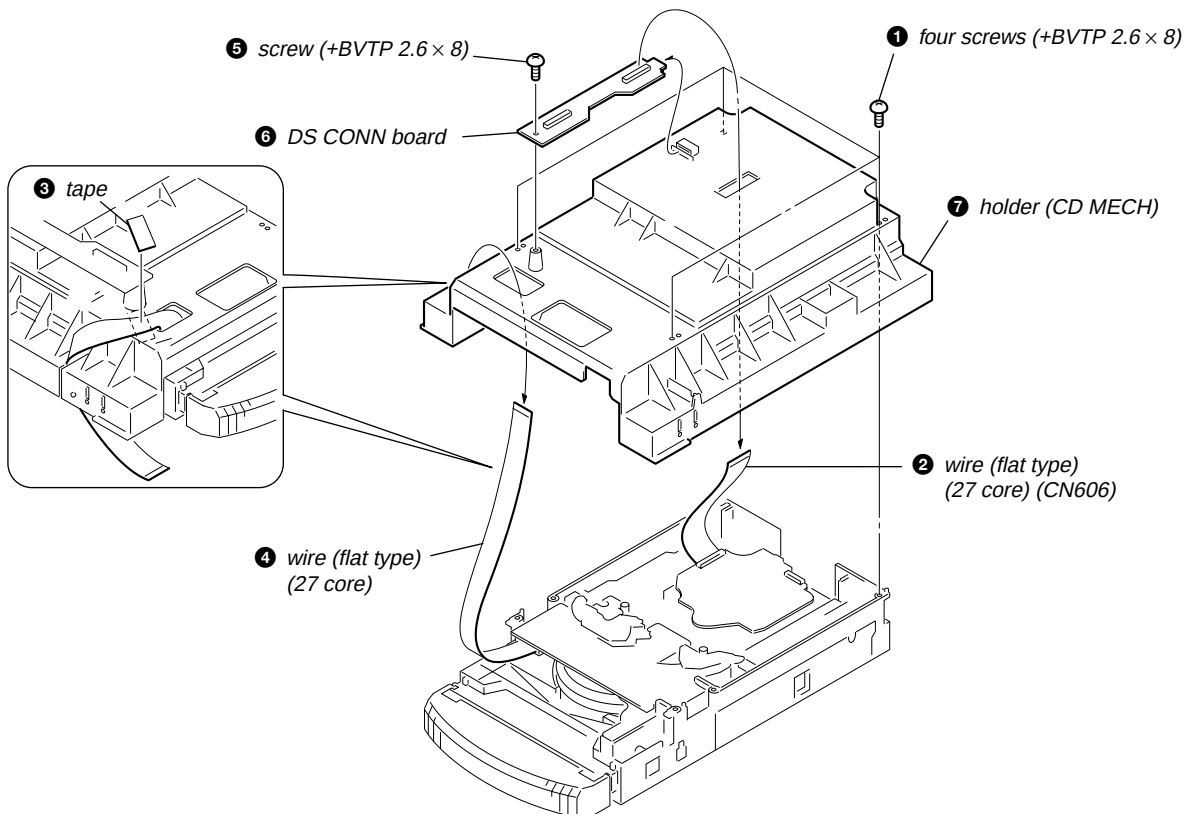
2-8. POWER TRANS



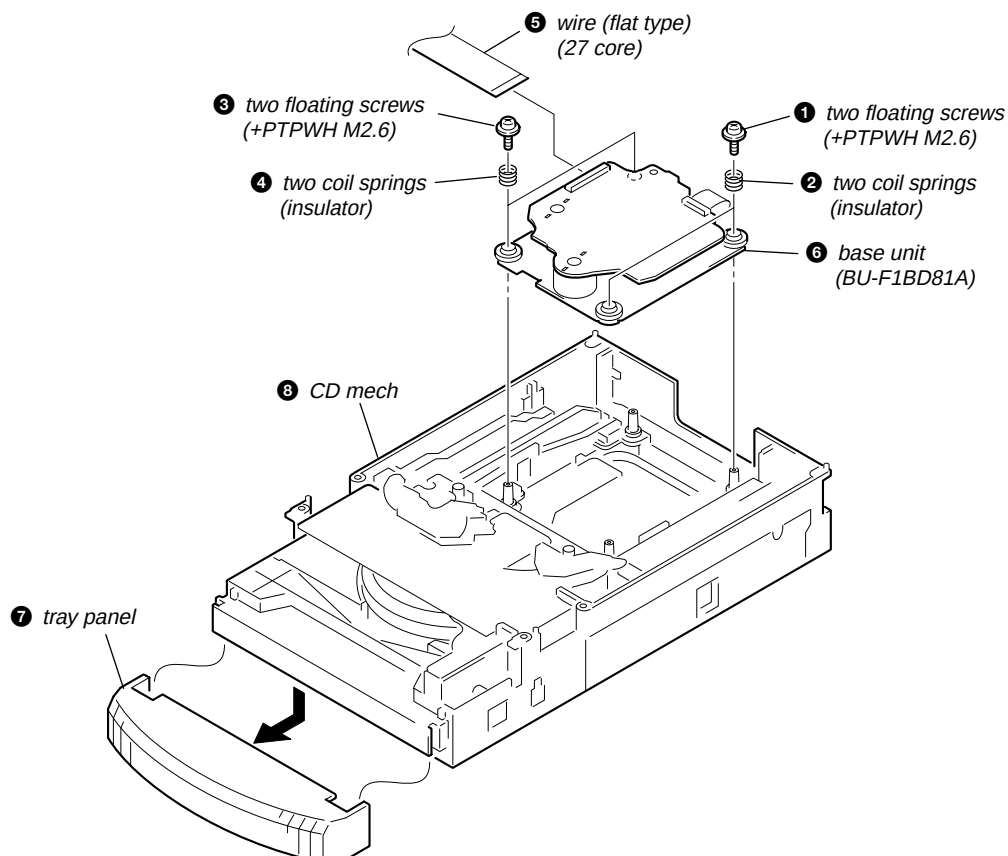
2-9. DS-MAIN BOARD, HEAT SINK



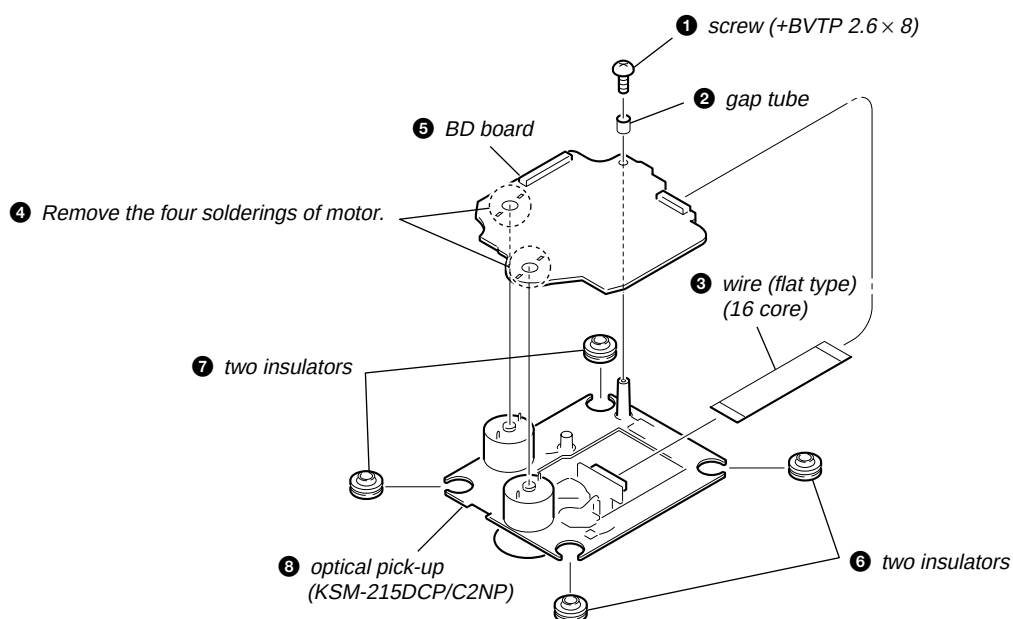
2-10. HOLDER (CD MECH)



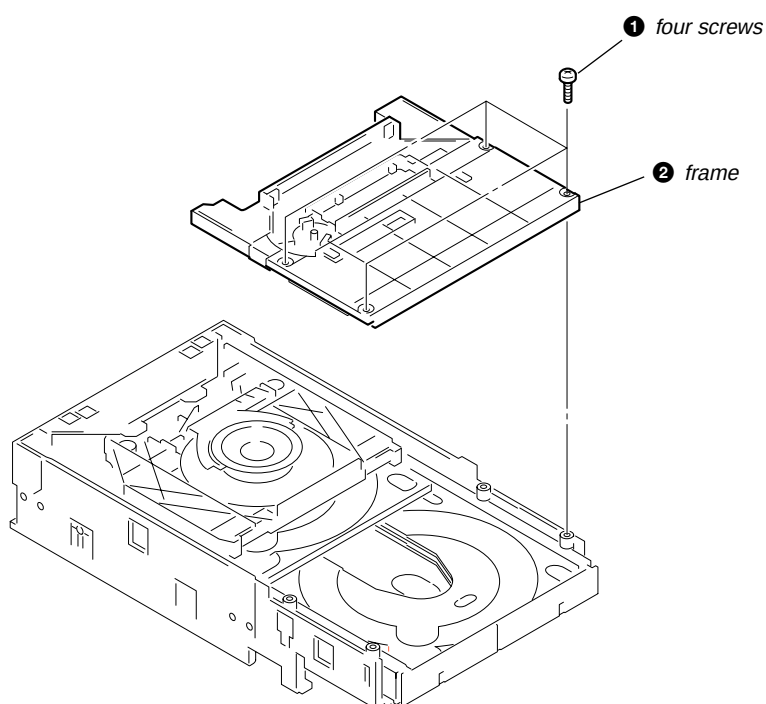
2-11. BASE UNIT (BU-F1BD81A), CD MECH



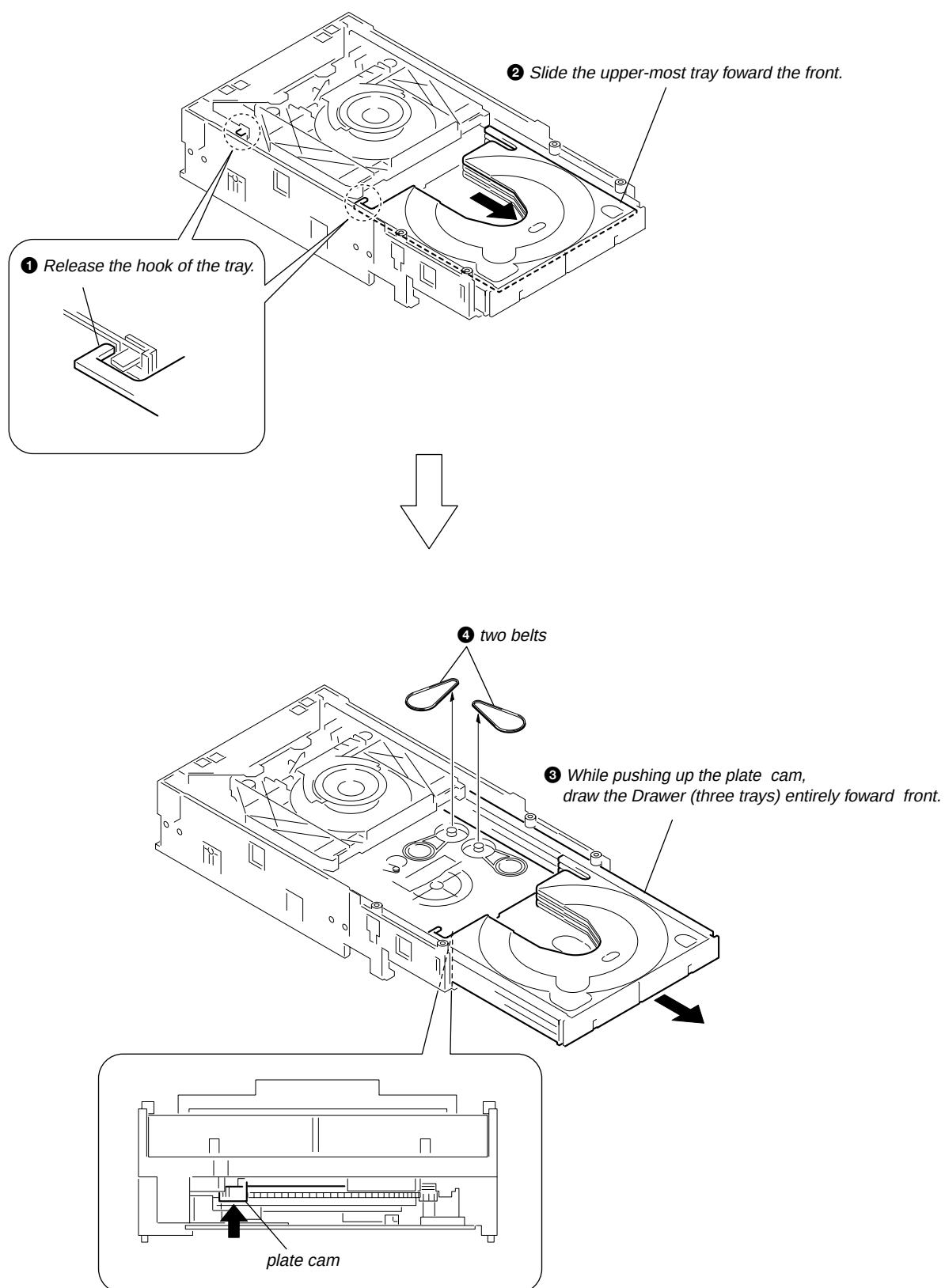
2-12. BD BOARD, OPTICAL PICK-UP (KSM-215DCP/C2NP)



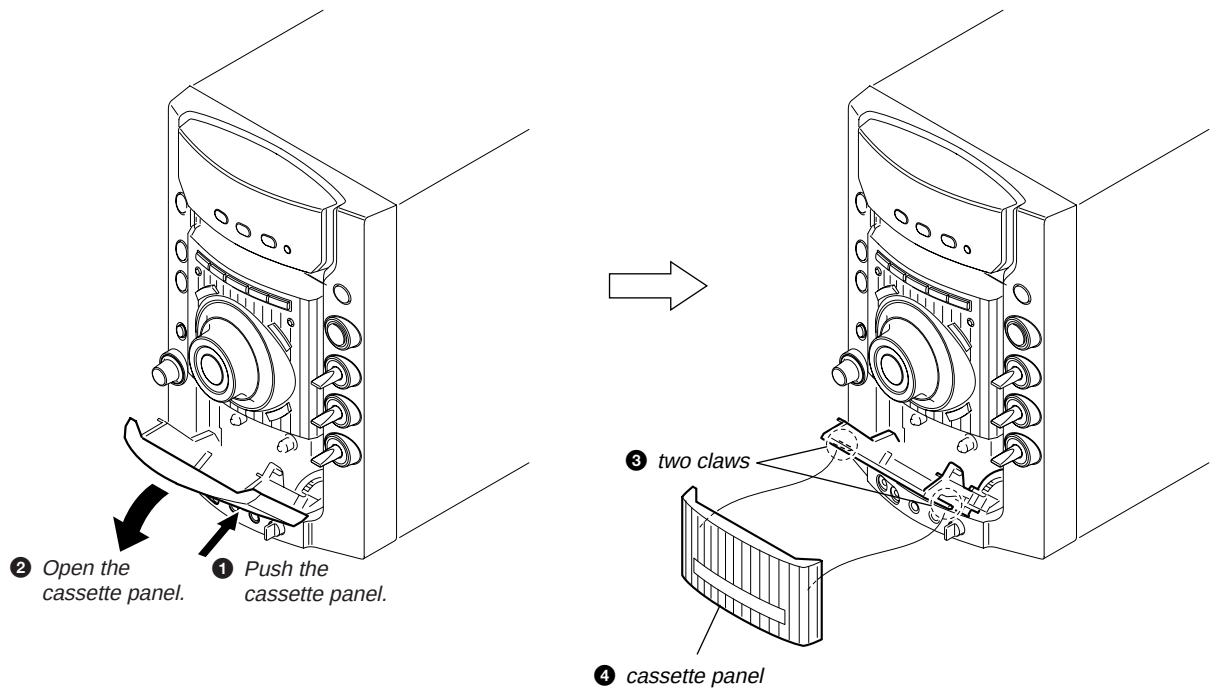
2-13. FRAME



2-14. BELT



2-15. CASSETTE PANEL



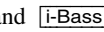
SECTION 3

TEST MODE

[COLD RESET]

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

Procedure:

1. Press the  button to turn the set on.
2. Press three buttons ,  and  simultaneously.
3. The fluorescent indicator tube does not display any message and the set is reset.

[Version Display Mode]

- * The version of the microcomputer is displayed.

Procedure:

1. Press the  button to turn the set on.
2. To enter the test mode, press three buttons ,  and  simultaneously. The version of the microcomputer is displayed.

[PANEL Test]

- * All fluorescent segments are tested.

Procedure:

1. Press the  button to turn the set on.
2. Press three buttons ,  and  simultaneously.
3. Then all segments of the florescent indicator tube are turned on.

[KEY Test]

- * Keyboard check

Procedure:

1. When the panel test mode is activated. Press  and  buttons simultaneously, and the key check mode is activated.
2. The message "KEY 0 0 0" is displayed.
3. Press , and  buttons simultaneously, and the key count mode is activated.
4. The message "KEYCNT 0" is displayed. Each time a button is pressed, "KEYCNT 0" value increased. However, once a button is pressed, it is no longer take into account.

[CD Ship (LOCK) & COLD RESET MODE]

Procedure:

1. Press the  button to turn the set on.
2. Select the function "CD".
3. Press the  button to turn the set off.
4. Press three buttons ,  and  simultaneously.
5. The "LOCK" display blinks instantaneously and CD ship mode is set.
6. The Cold Reset Mode is set.

[CD Ship Mode]

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

Procedure:

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

[Disc Tray Lock]

The disc tray lock function for the antitheft of an demonstration disc in the store is equipped.

Setting Procedure :

1. Press the  button to turn the set on.
2. Press two buttons of  and  simultaneously for five seconds.
3. The message "LOCKED" is displayed and the tray is locked.

Releasing Procedure :

1. Press two buttons of  and  simultaneously for five seconds again.
2. The message "UNLOCKED" is displayed and the tray is unlocked.

Note : When "LOCKED" is displayed, the tray lock is not released by turning power on/off with the  button.

[Common Test]

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

Procedure:

1. Press the  button to turn the set on.
2. Press three buttons ,  and  simultaneously.
3. The message "Volume MAX" is displayed, when the  knob is rotated clockwise. The message "Volume MIN" is displayed, when the  knob is rotated counterclockwise.
4. Each time the ,  and  knob is turned, the message "EQ MAX", "EQ MIN" or "EQ FLAT" is displayed in this order.

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

- * Either the 9 kHz step or 10 kHz step can be selected for the AM channel step. (EXCEPT AEP,UK,RU)

Procedure:

1. Set the FUNCTION to AM.
2. While depressing the  button, press the  button.
3. The channel step is changed over.

[CD Repeat 5 Times Limit Release Mode]

Procedure:

1. Press the  button to turn the set on.
2. Select the FUNCTION to CD.
3. Press three buttons ,  and  simultaneously.
4. The repeat all mark blinks and then repeat 5 times limit is released.

SECTION 4 MECHANICAL ADJUSTMENTS

TAPE MECHANISM DECK SECTION

Precaution

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

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

Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102C	2.94 – 7.84 mN • m (30 to 79 g • cm) (0.42 – 1.11 oz • inch)
FWD back tension	CQ-102C	0.15 – 0.59 mN • m (2 to 6 g • cm) (0.03 – 0.08 oz • inch)
REV	CQ-102RC	2.94 – 7.84 mN • m (30 to 79 g • cm) (0.42 – 1.11 oz • inch)
REV back tension	CQ-102RC	0.15 – 0.59 mN • m (2 to 6 g • cm) (0.03 – 0.08 oz • inch)
FF/REW	CQ-201B	6.86 – 17.64 mN • m (70 to 179 g • cm) (0.98 – 2.49 oz • inch)
FWD tension	CQ-403A	0.98 mN • m or more (10 • cm or more) (0.14 oz • inch or more)
REV tension	CQ-403R	0.98 mN • m or more (10 • cm or more) (0.14 oz • inch or more)

SECTION 5 ELECTRICAL ADJUSTMENTS

DECK SECTION

0 dB=0.775V

Precaution

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

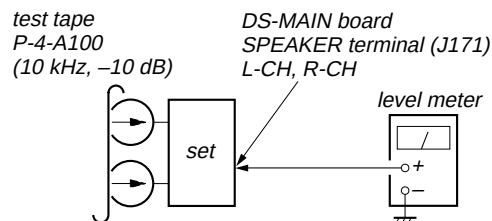
• Test Tape

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

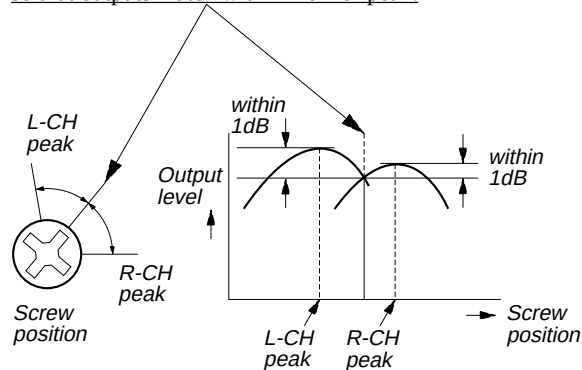
Record/Playback Head Azimuth Adjustment

Procedure:

1. Mode : Playback

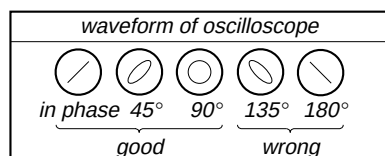
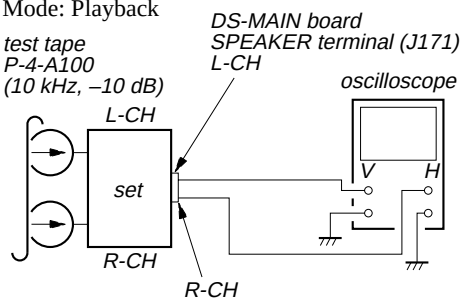


2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1 dB of peak.



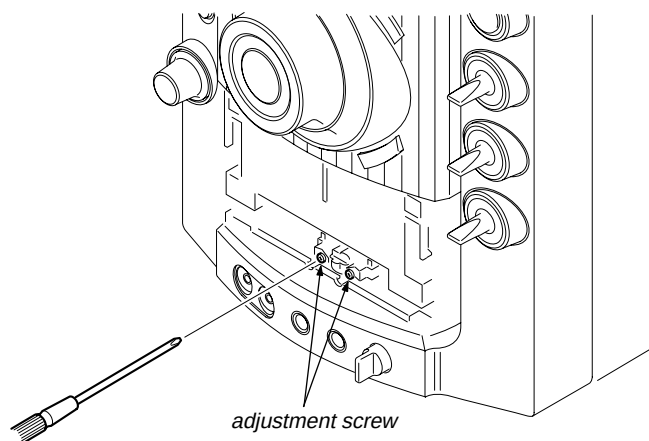
3. Mode: Playback

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



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

Adjustment Location: Record/Playback/Erase Head

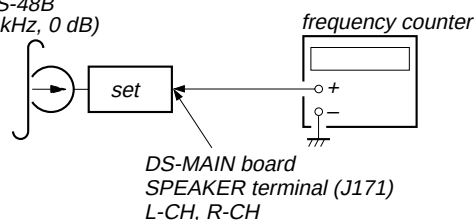


Note: Refer to "2-15. Cassette Panel" (see page 15)

Tape Speed Check

Mode: Playback

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



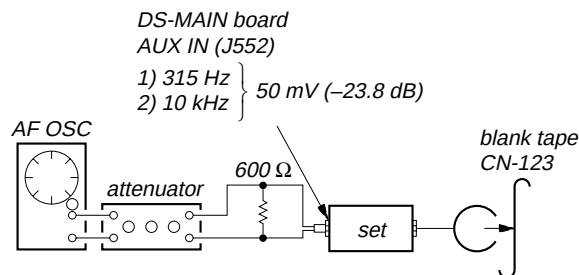
- Insert the WS-48B into deck.
- Press the button of deck.
- Confirm that the frequency counter reads 3000 ± 90 Hz.

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

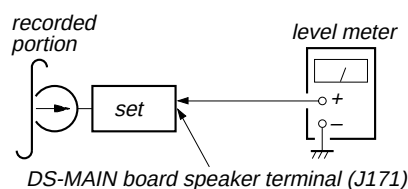
Record Bias Adjustment

Procedure:

- Record mode



- Mode: Playback
i-Bass OFF
BASS 0
TREBLE 0

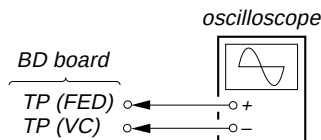


- Confirm playback the signal recorded in step 1 become adjustment level as follows.

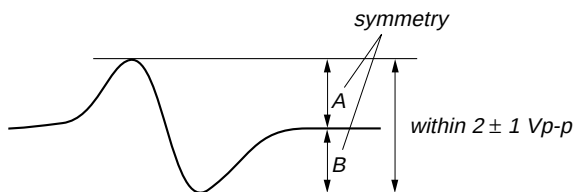
Adjustment level: Playback output of 315 Hz to playback output of 10 kHz: -2 ± 3.0 dB (0 ± 4.5 mV).

CD SECTION**Note:**

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

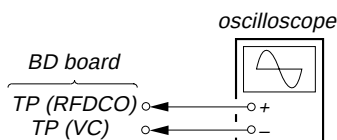
S-curve Check**Connection:****Procedure:**

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

S-curve waveform

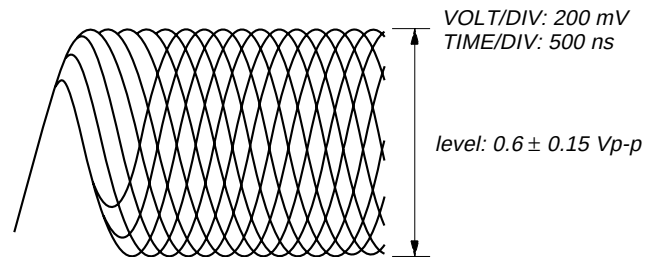
- Note:**
- Try to measure several times to make sure than the ratio of A : B or B : A is more than 10 : 7.
 - Take sweep time as long as possible and light up the brightness to obtain best waveform.

Checking Location: BD board (Side B)(See page 20)

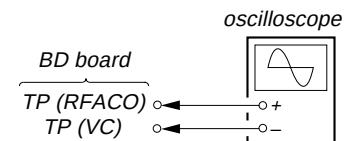
RFDC Level Check**Connection:****Procedure:**

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

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

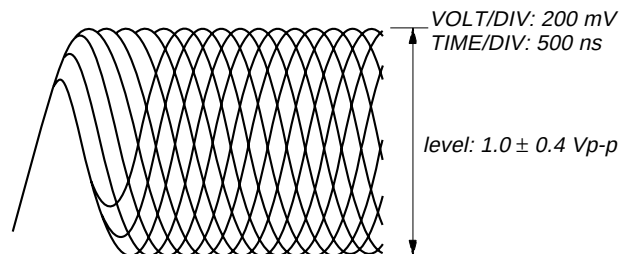
RFDC signal waveform

Checking Location: BD board (Side B)(See page 20)

RFAC Level Check**Connection:****Procedure:**

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

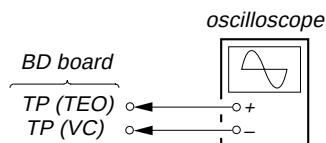
Note: A clear RFAC signal waveform means that the shape "◇" can be clearly distinguished at the center of the waveform.

RFAC signal waveform

Checking Location: BD board (Side B)(See page 20)

E-F Balance Adjustment

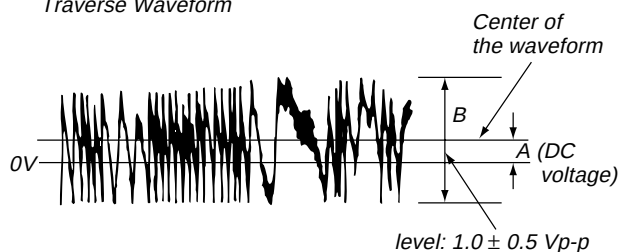
Connection:



Procedure:

1. Connect an oscilloscope to test point TP (TEO) and TP (VC) on the BD board.
2. Set the FUNCTION to "CD".
3. AC is put in pushing button to enter the CD test mode.
4. Put the disc (YEDS-18) in to playback the number five track.
5. Press the button. If it plays, press the button again. (The tracking servo and the sledding servo are turned OFF)
6. Check the level B of the oscilloscope's waveform and the A (DC voltage) of the center of the Traverse waveform.
Confirm the following :
 $A/B \times 100 = \text{less than } \pm 10\%$

Traverse Waveform

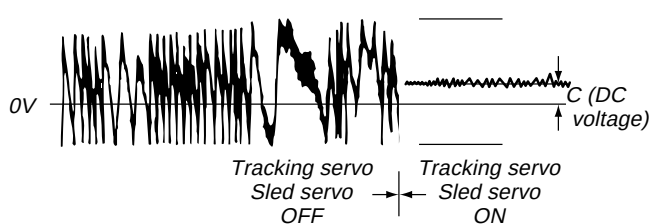


7. Press the button. (The tracking servo and sledding servo are turned ON)
8. To exit from this mode, turn the power off.

Notes:

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

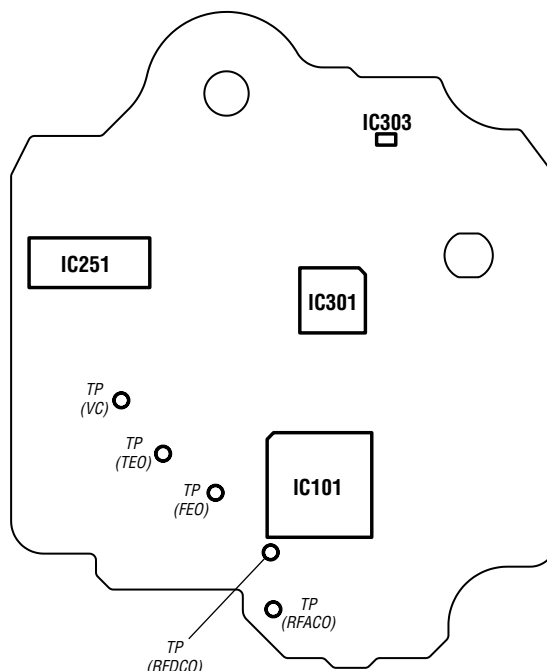
Traverse Waveform



Checking Location: BD board (Side B)

Checking Location:

- BD BOARD (Side B) -



SECTION 6
DIAGRAMS

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

For Schematic Diagrams.

- Note:
- All capacitors are in μF unless otherwise noted. (p: pF)
50 WV or less are not indicated except for electrolytics and tantalums.
 - All resistors are in Ω and $\frac{1}{4}W$ or less unless otherwise specified.
 - Δ : internal component.
 - $\square$: panel designation.

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

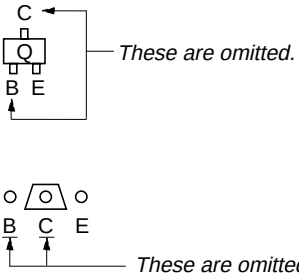
- — : B+ Line.
- --- : B- Line.
- □ : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance 10 M Ω).
Voltage variations may be noted due to normal production tolerances.
- No mark: CD STOP
- Waveforms are taken with a oscilloscope.
Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 - $\Rightarrow$: TUNER
 - $\Rightarrow$: CD
 - $\Rightarrow$: AUX
 - $\Rightarrow$: PB (TAPE)
 - $\Rightarrow$: REC (TAPE)
 - $\Rightarrow$: MIC
- Abbreviation
 - AUS : Australian model.
 - E51 : Chilean and Peruvian model.
 - MX : Mexican model.
 - RU : Russian model.

For Printed Wiring Boards.

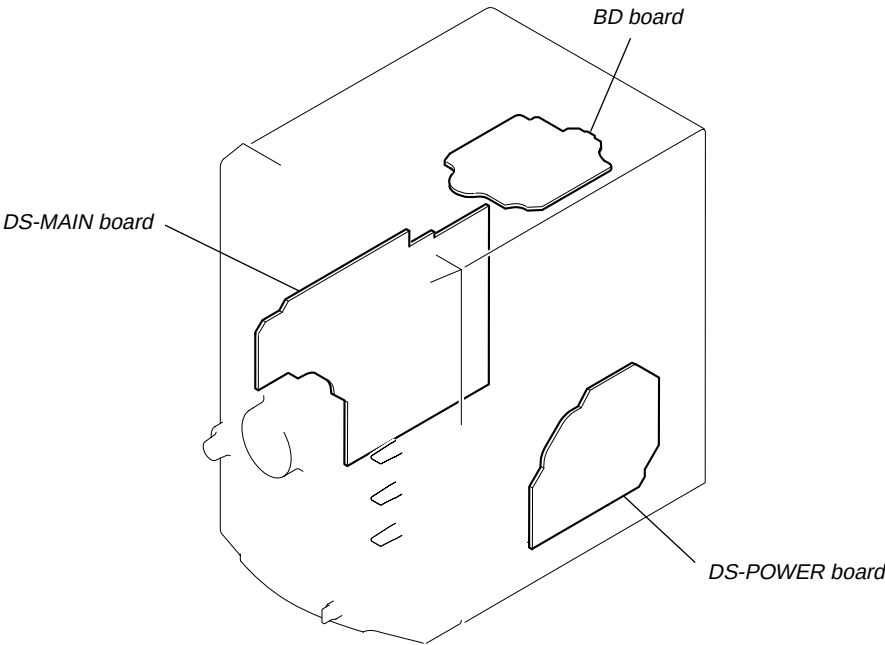
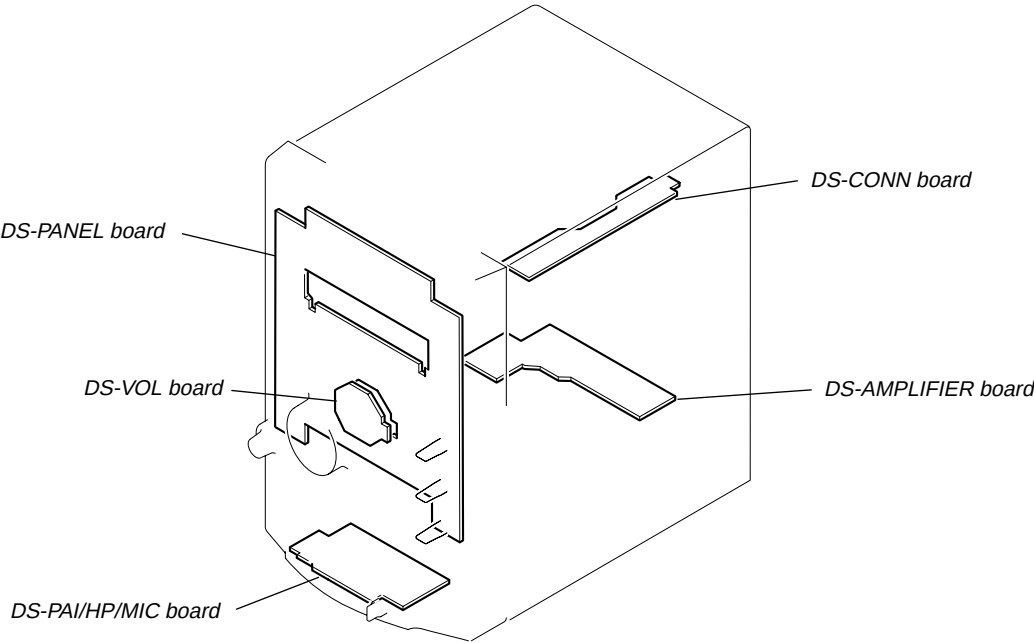
- Note:
- $\circ$: parts extracted from the component side.
 - : Pattern from the side which enables seeing.

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

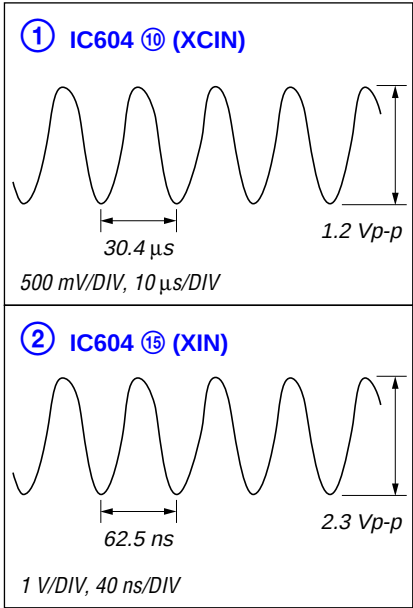
- Indication of transistor.



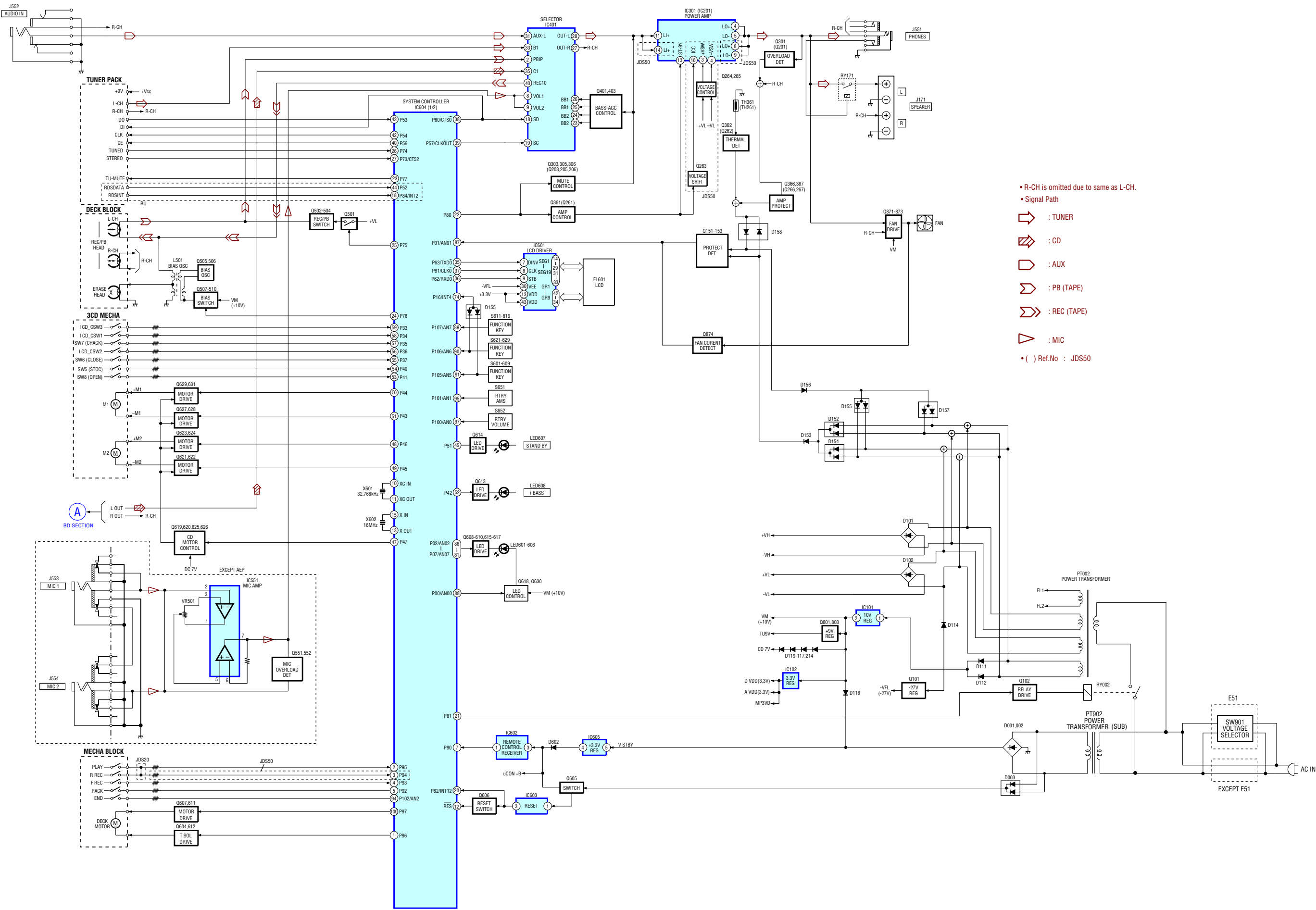
• Circuit Boards Location

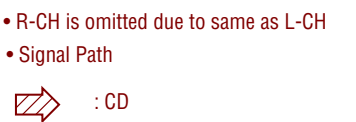


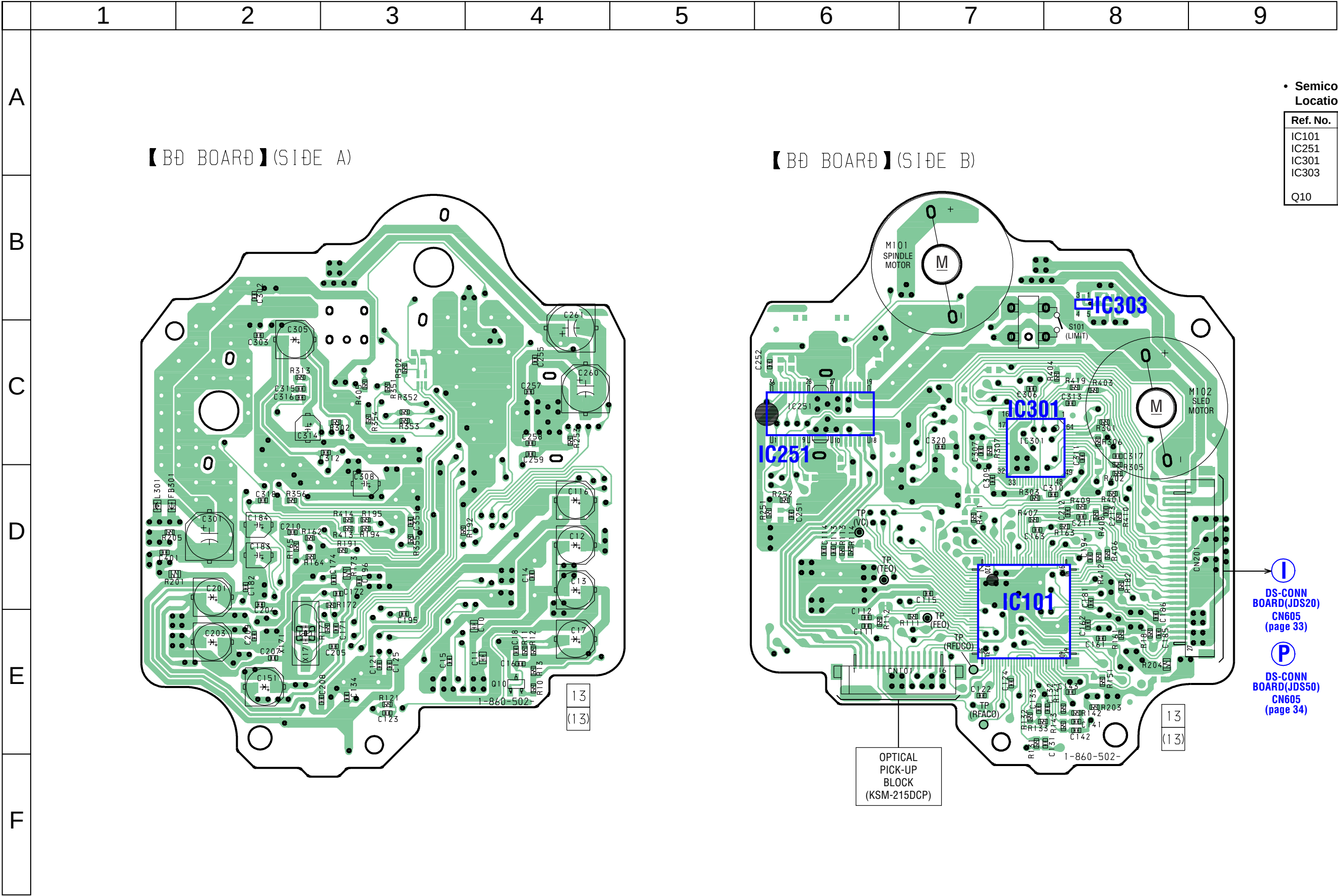
• Waveforms
– DS-PANEL Board –



6-1. BLOCK DIAGRAM – MAIN SECTION –



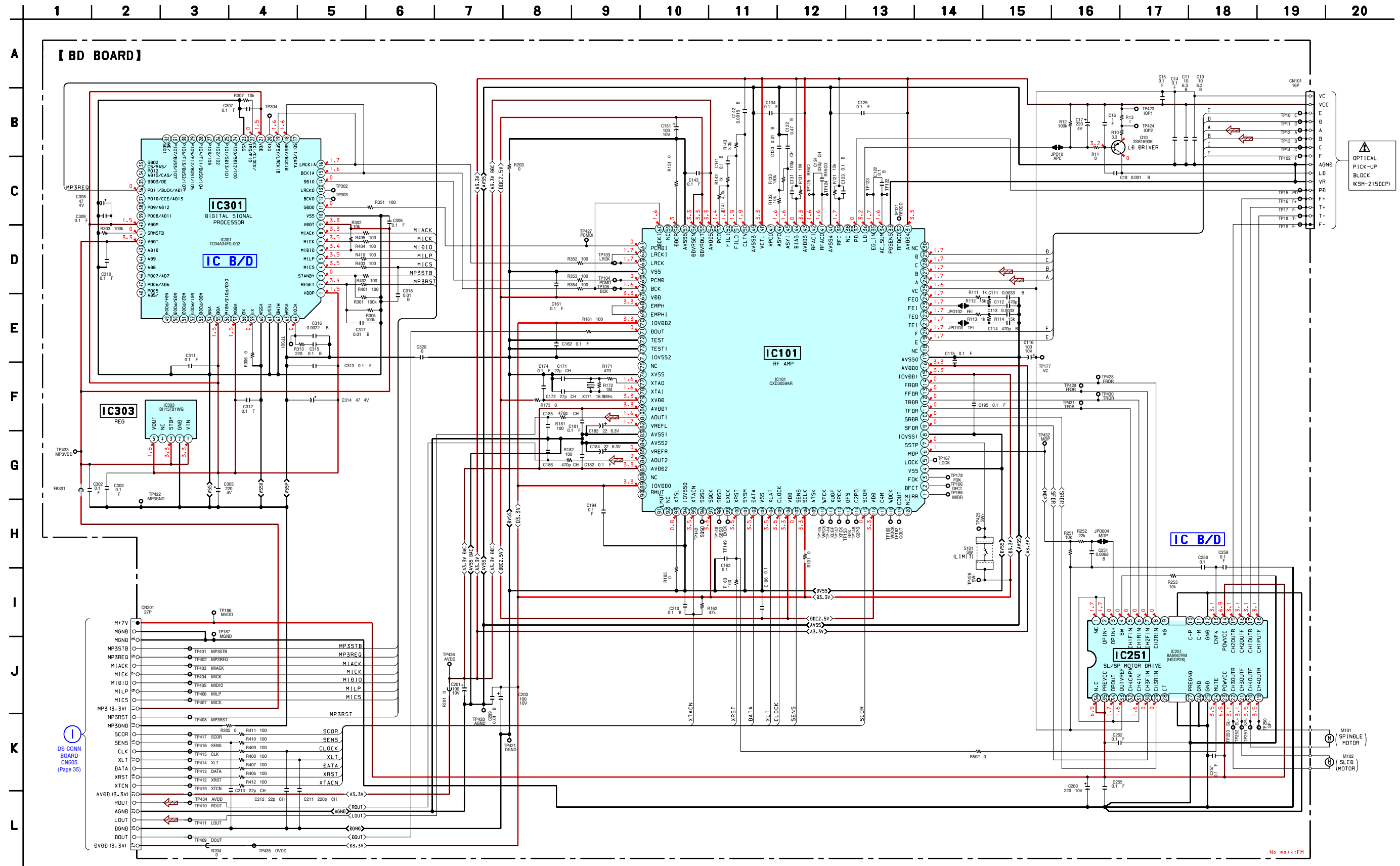




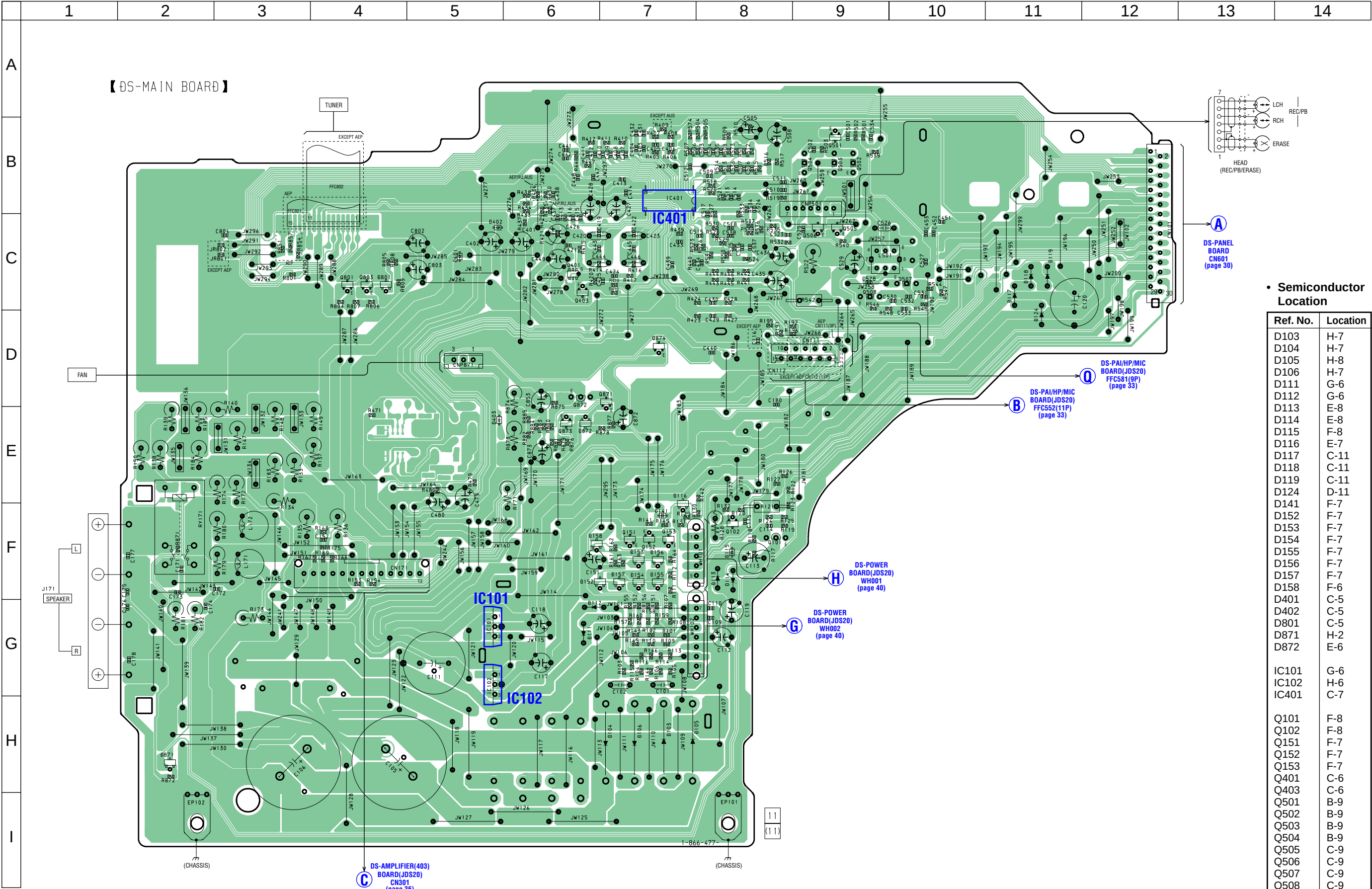
• Semiconductor Location

Ref. No.	Location
IC101	D-7
IC251	C-6
IC301	C-7
IC303	B-8
Q10	E-4

6-3. SCHEMATIC DIAGRAM – BD SECTION – • See page 42 for IC Block Diagrams. • See page 44 for IC Pin Function Description.



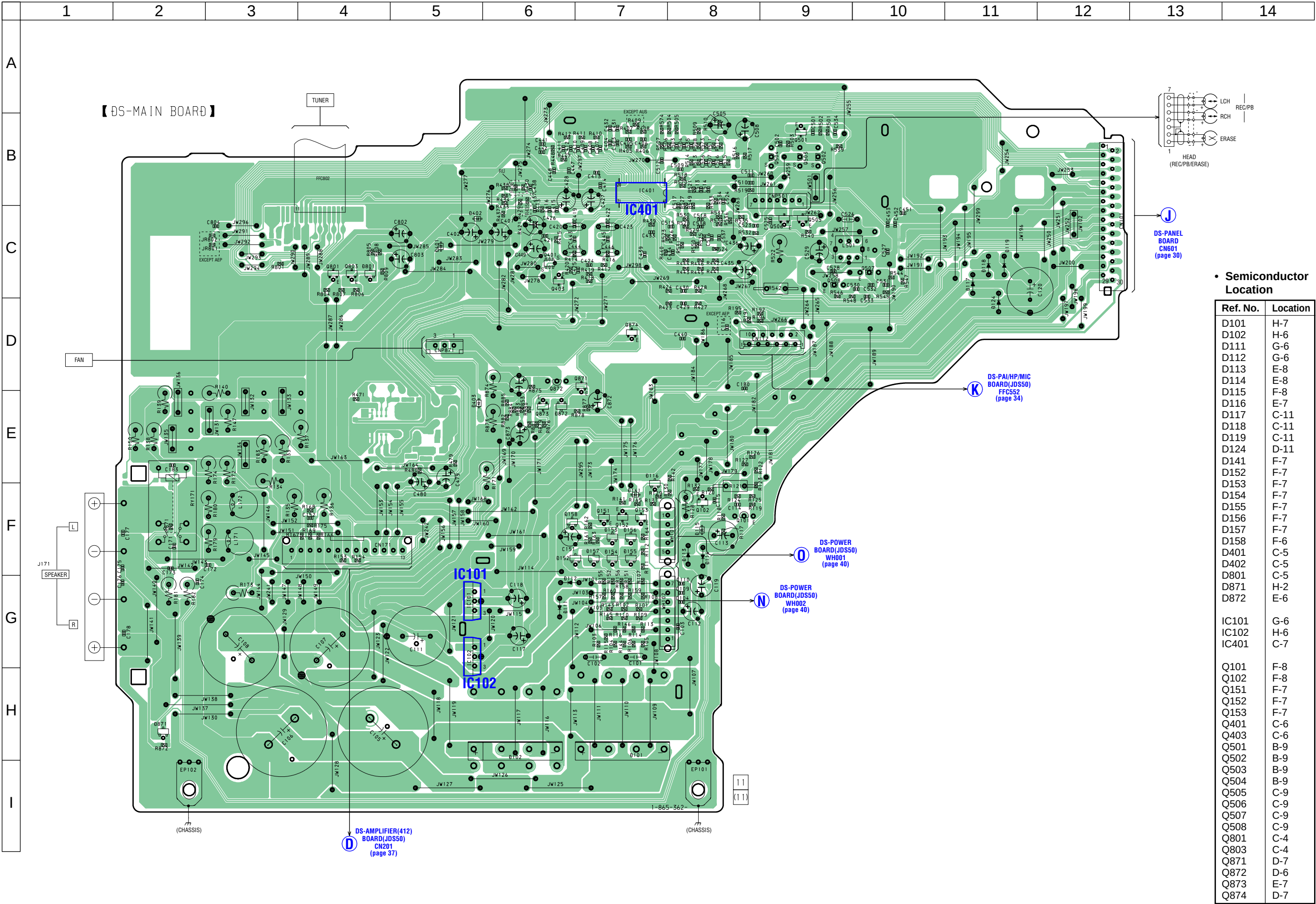
6-4. PRINTED WIRING BOARD – MAIN (JDS20) SECTION – • See page 21 for Circuit Boards Location. :Uses unleaded solder.

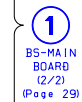


• Semiconductor Location

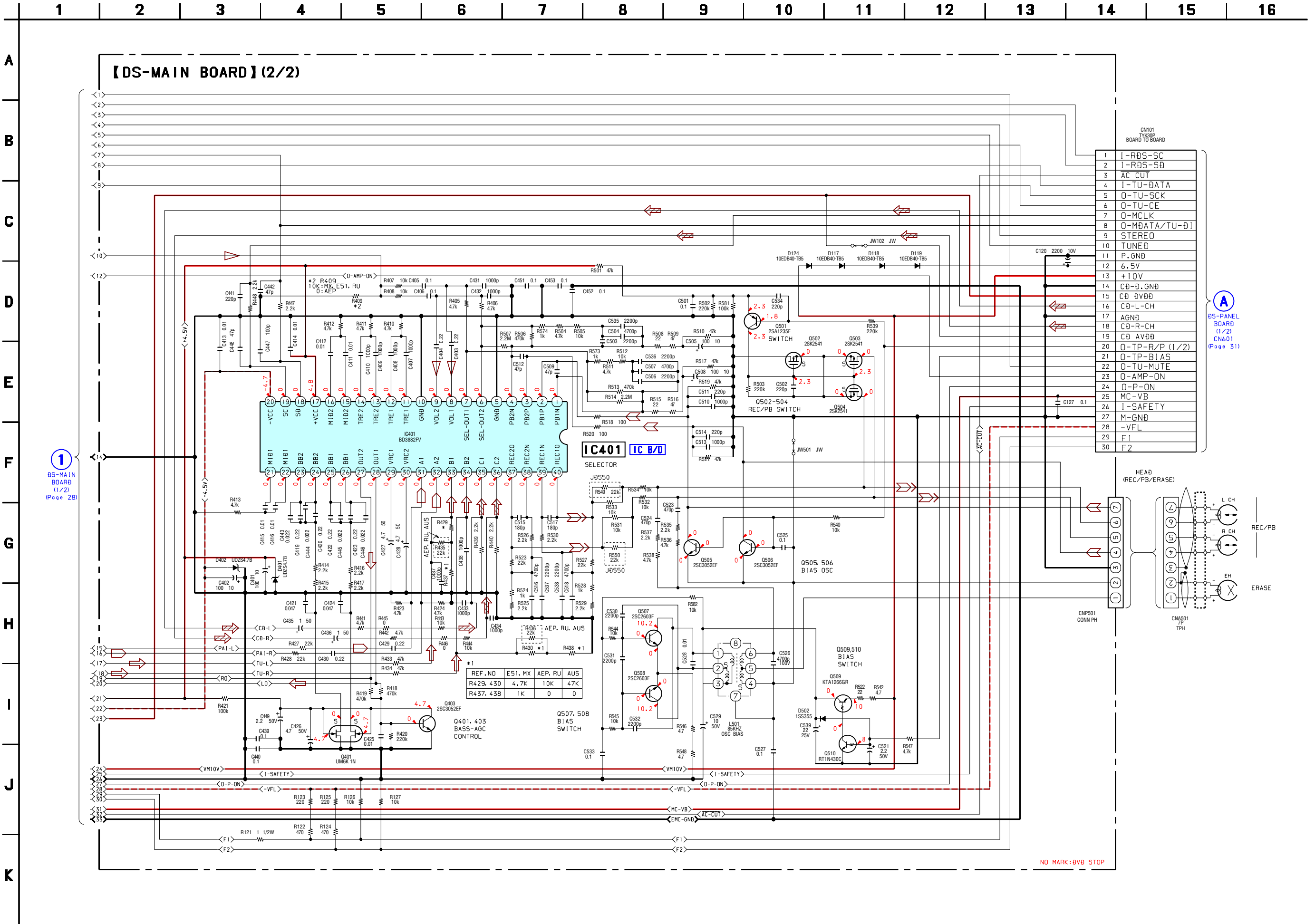
Ref. No.	Location
D103	H-7
D104	H-7
D105	H-8
D106	H-7
D111	G-6
D112	G-6
D113	E-8
D114	E-8
D115	F-8
D116	E-7
D117	C-11
D118	C-11
D119	C-11
D124	D-11
D141	F-7
D152	F-7
D153	F-7
D154	F-7
D155	F-7
D156	F-7
D157	F-7
D158	F-6
D401	C-5
D402	C-5
D801	C-5
D871	H-2
D872	E-6
IC101	G-6
IC102	H-6
IC401	C-7
Q101	F-8
Q102	F-8
Q151	F-7
Q152	F-7
Q153	F-7
Q401	C-6
Q403	C-6
Q501	B-9
Q502	B-9
Q503	B-9
Q504	B-9
Q505	C-9
Q506	C-9
Q507	C-9
Q508	C-9
Q801	C-4
Q803	C-4
Q871	D-7
Q872	D-6
Q873	E-7
Q874	D-7

6-5. PRINTED WIRING BOARD – MAIN (JDS50) SECTION – • See page 21 for Circuit Boards Location. :Uses unleaded solder.

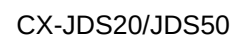


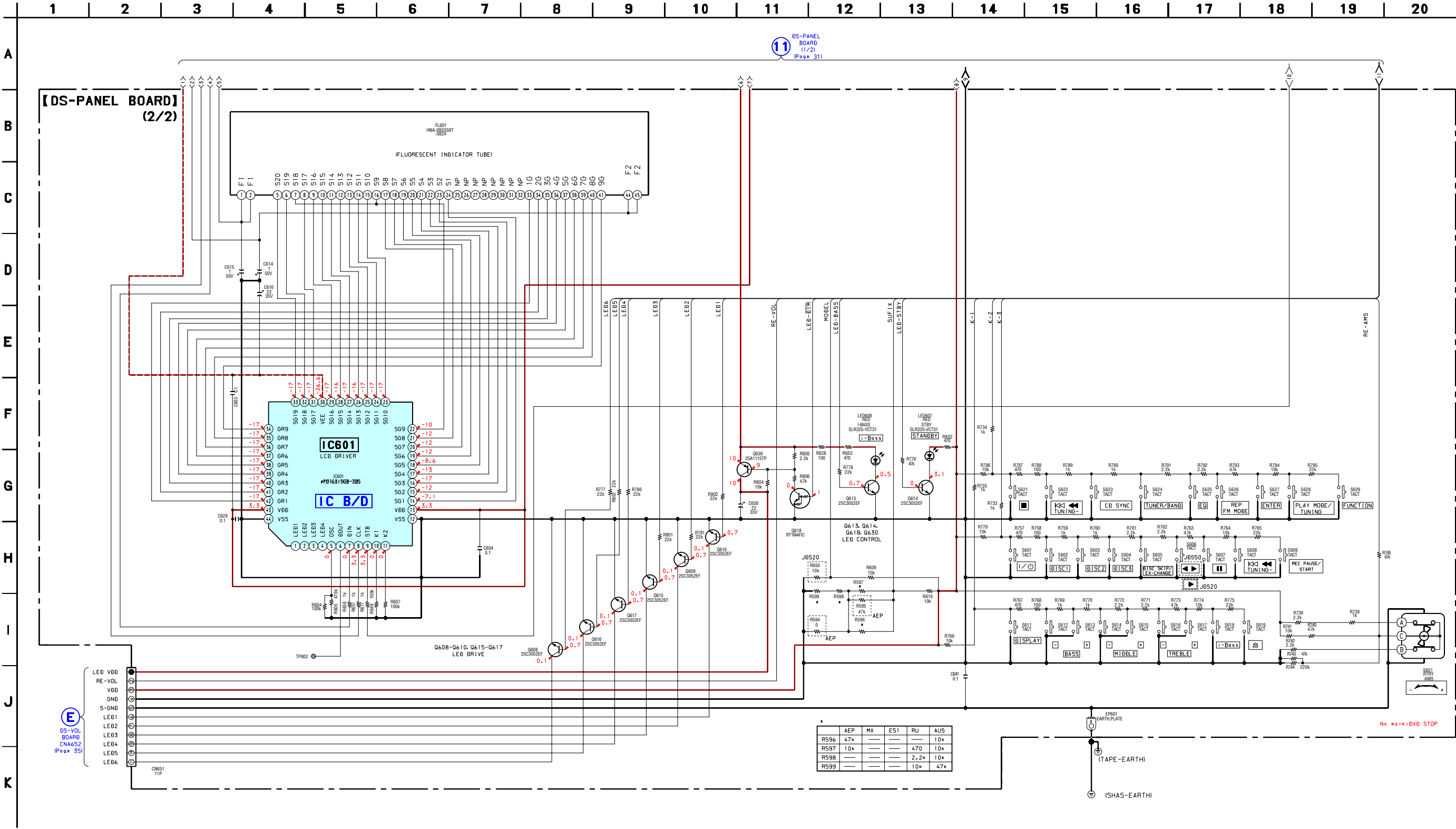


6-7. SCHEMATIC DIAGRAM – MAIN SECTION (2/2) – • See page 42 for IC Block Diagram.

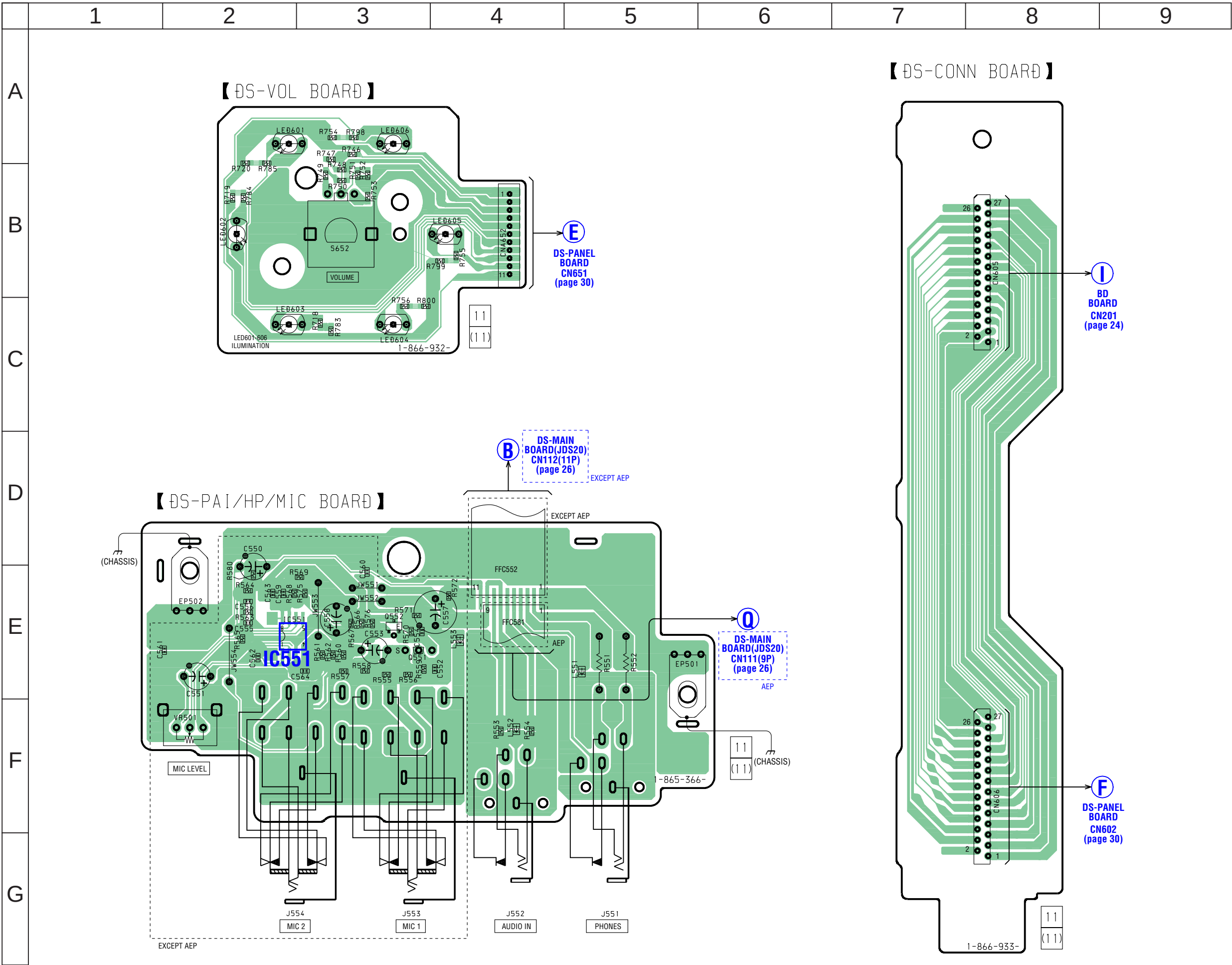


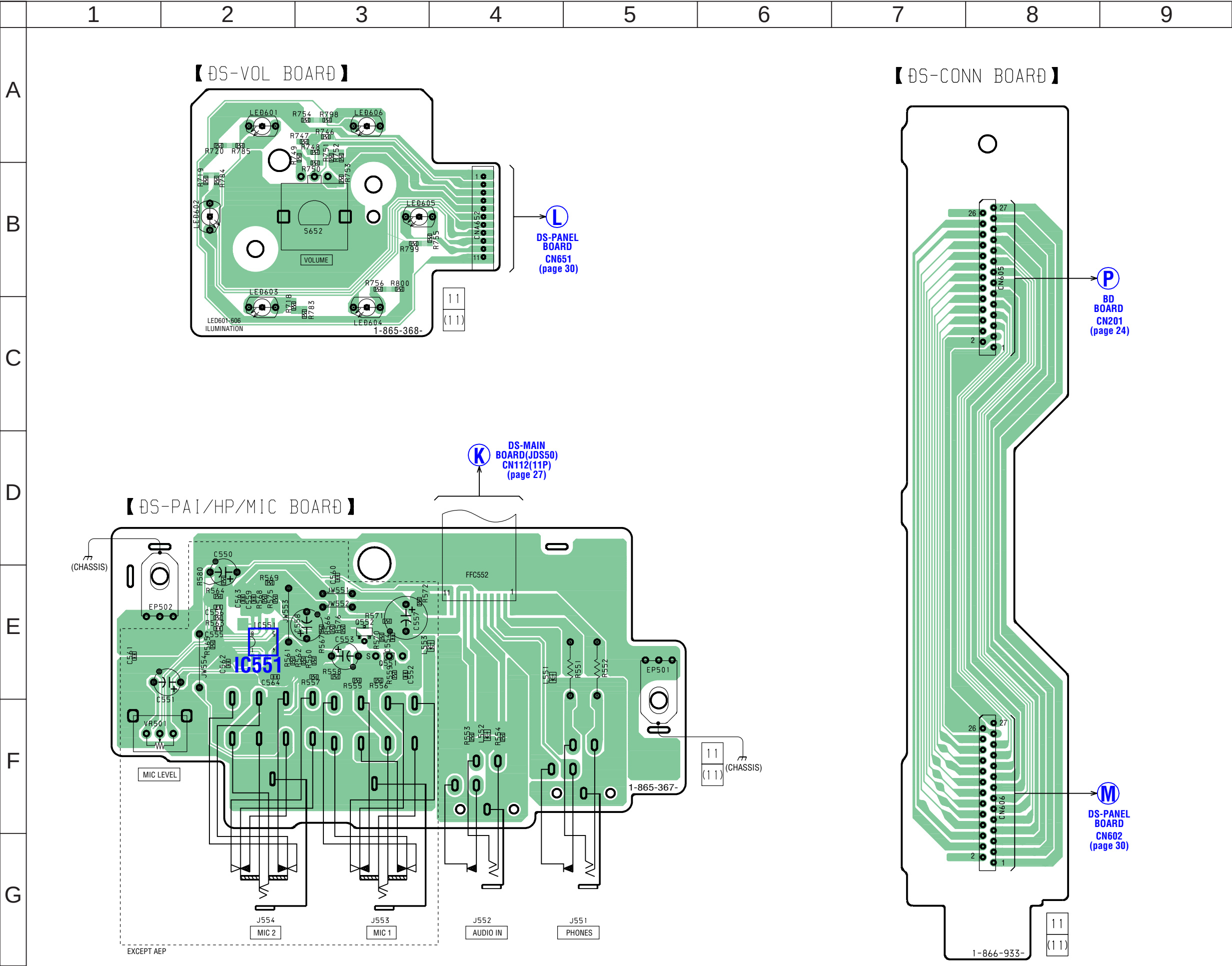




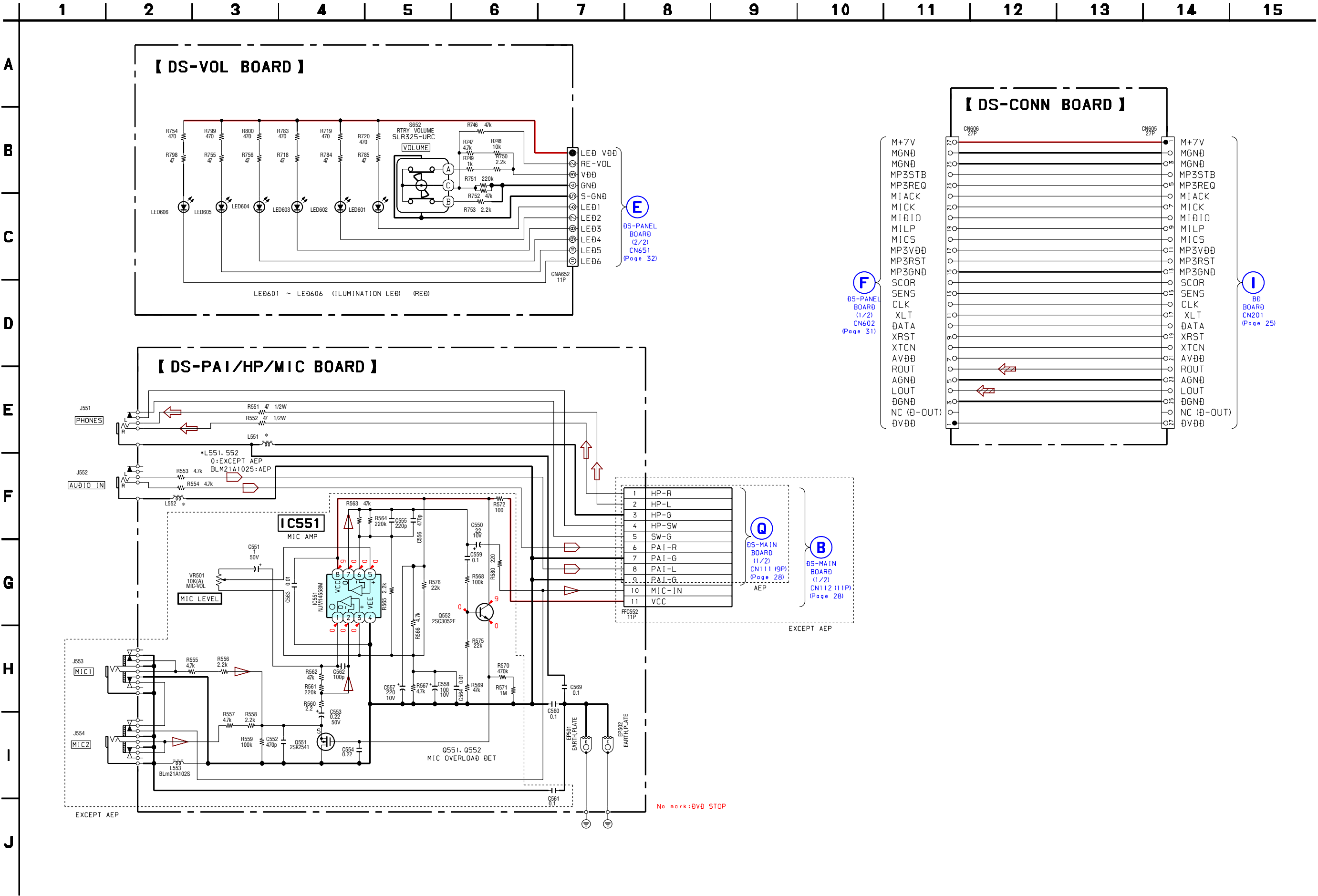


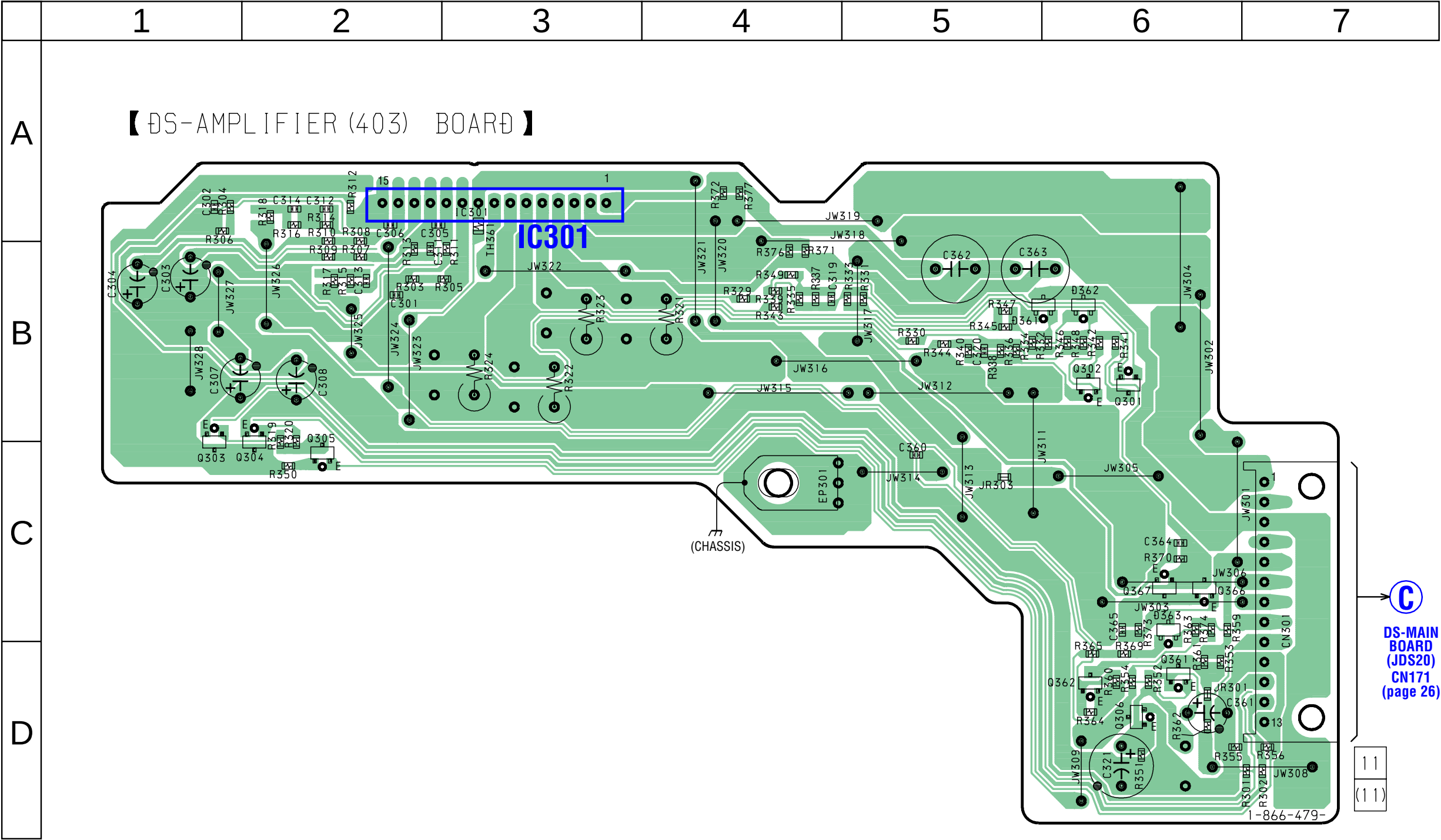
6-11. PRINTED WIRING BOARD – PANEL COMB (JDS20) SECTION – • See page 21 for Circuit Boards Location. :Uses unleaded solder.





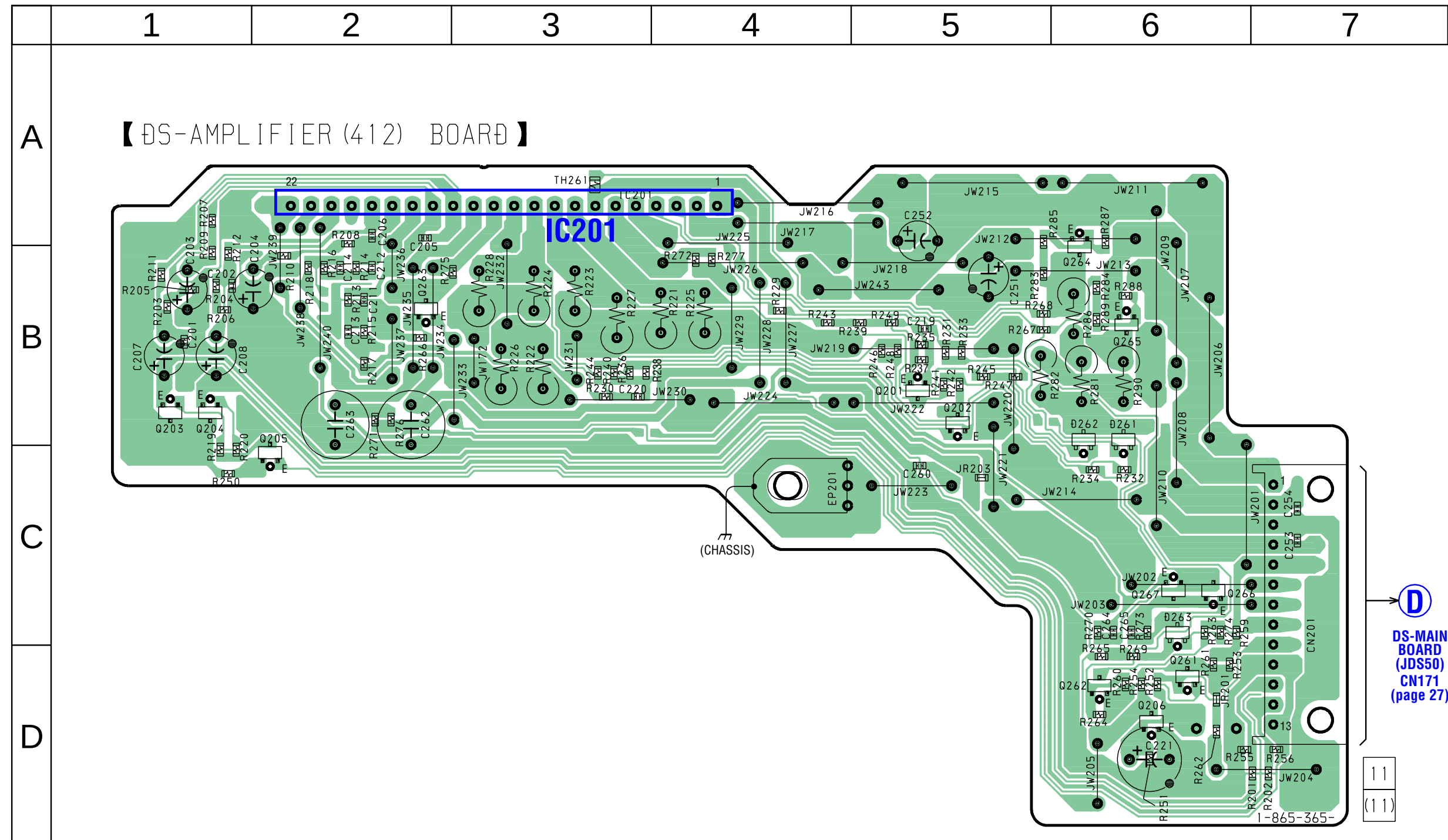
6-13. SCHEMATIC DIAGRAM – PANEL COMB SECTION –





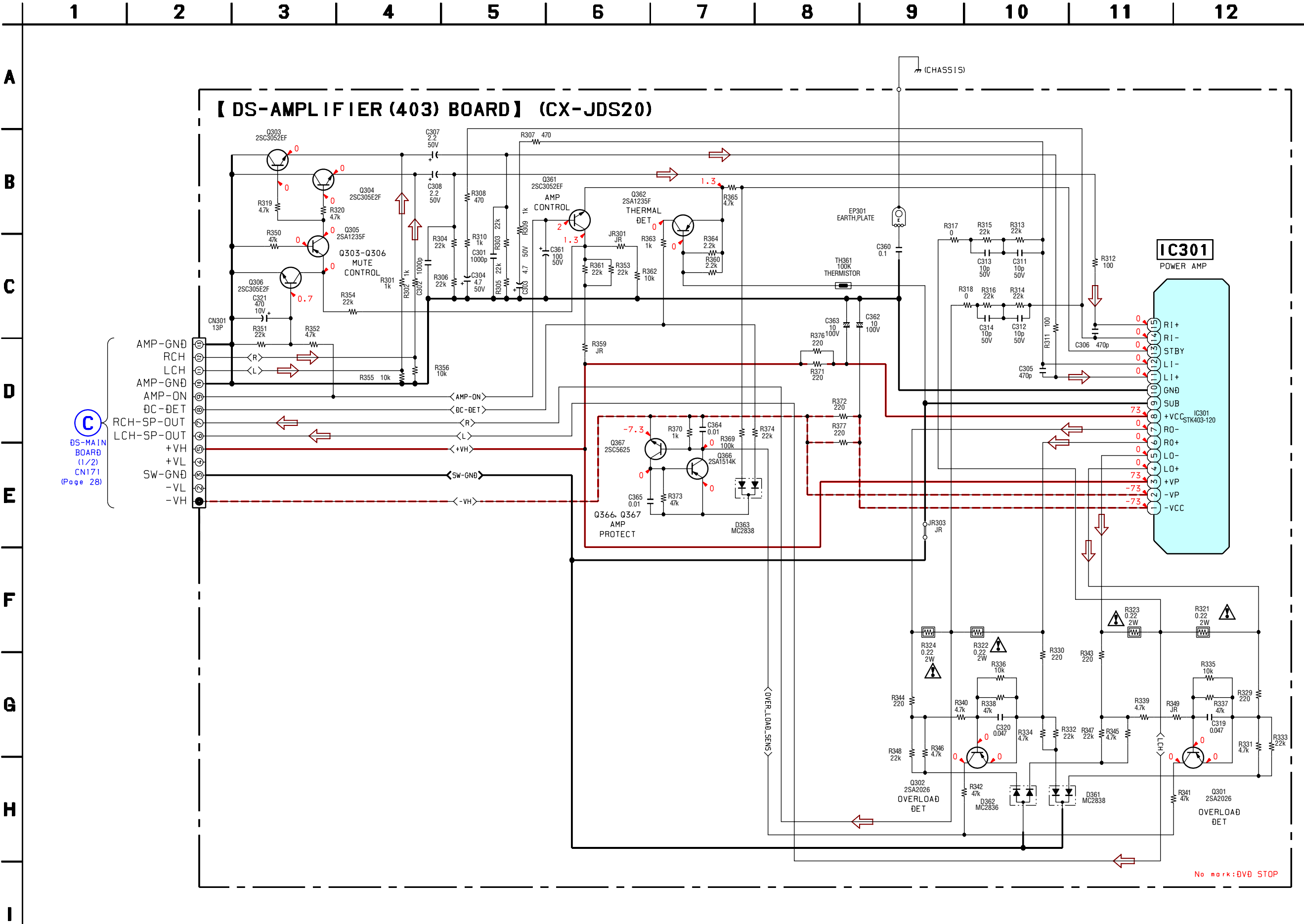
• Semiconductor Location

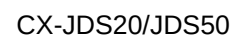
Ref. No.	Location
D361	B-5
D362	B-6
D363	C-6
IC301	B-3
Q301	B-6
Q302	B-6
Q303	C-1
Q304	C-1
Q305	C-2
Q306	D-6
Q361	D-6
Q362	D-6
Q366	C-6
Q367	C-6

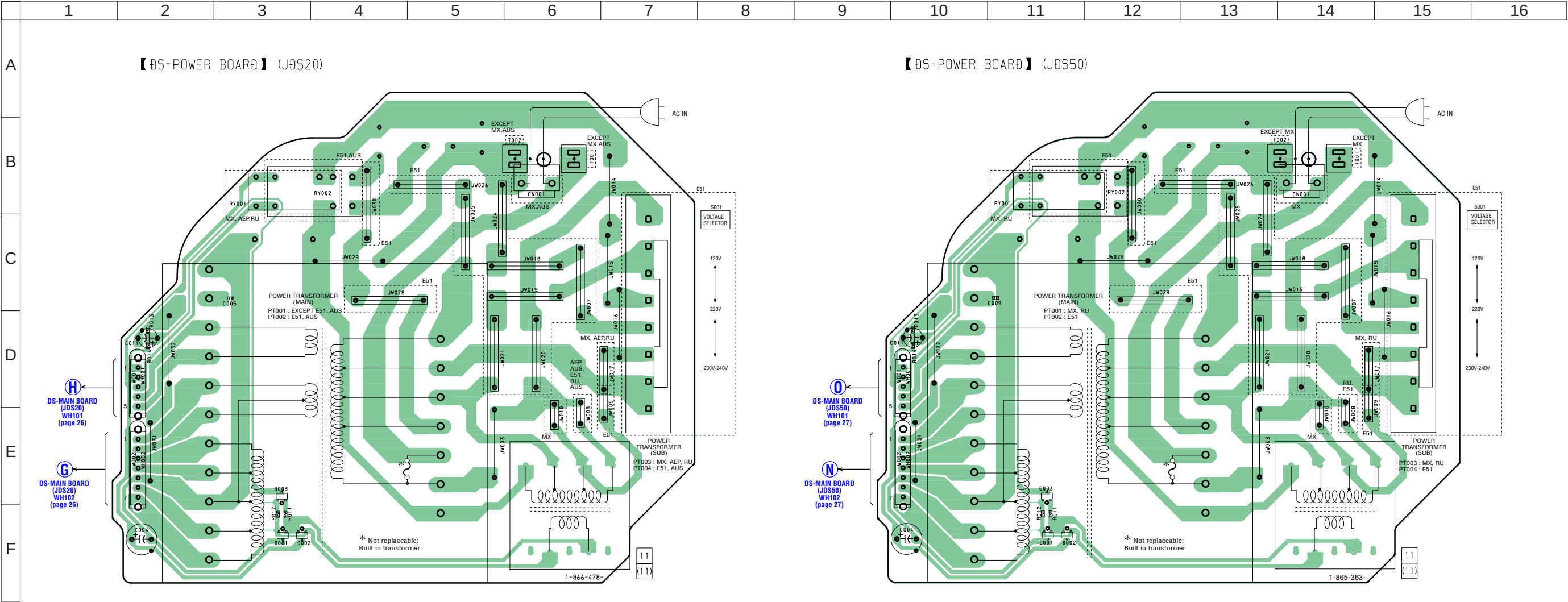


Ref. No.	Location
D261	B-6
D262	B-6
D263	C-6
IC201	B-3
Q201	B-5
Q202	B-5
Q203	B-1
Q204	B-1
Q205	C-2
Q206	D-6
Q261	D-6
Q262	D-6
Q263	B-2
Q264	B-6
Q265	B-6
Q266	C-6
Q267	C-6

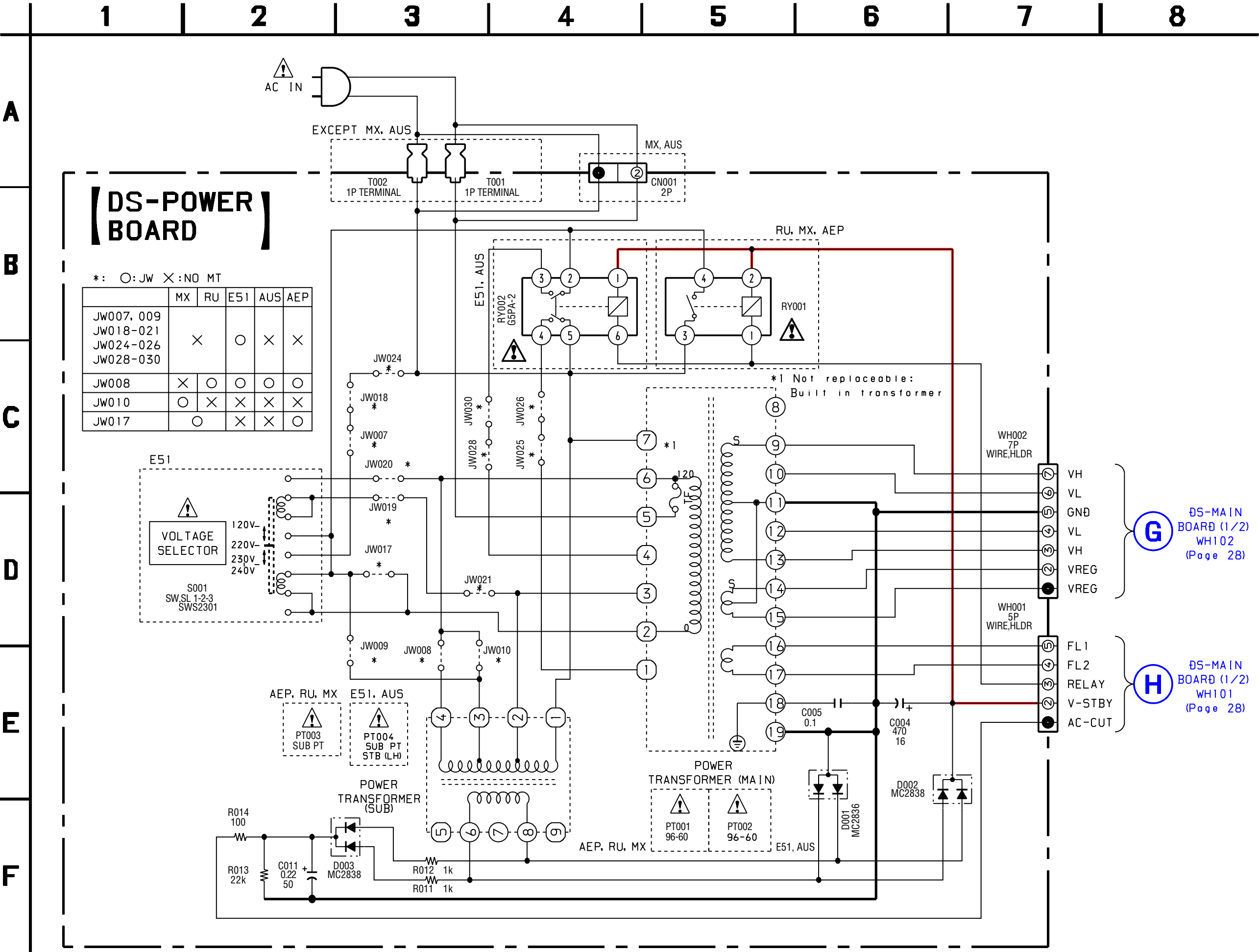
6-16. SCHEMATIC DIAGRAM – AMP (JDS20) SECTION –

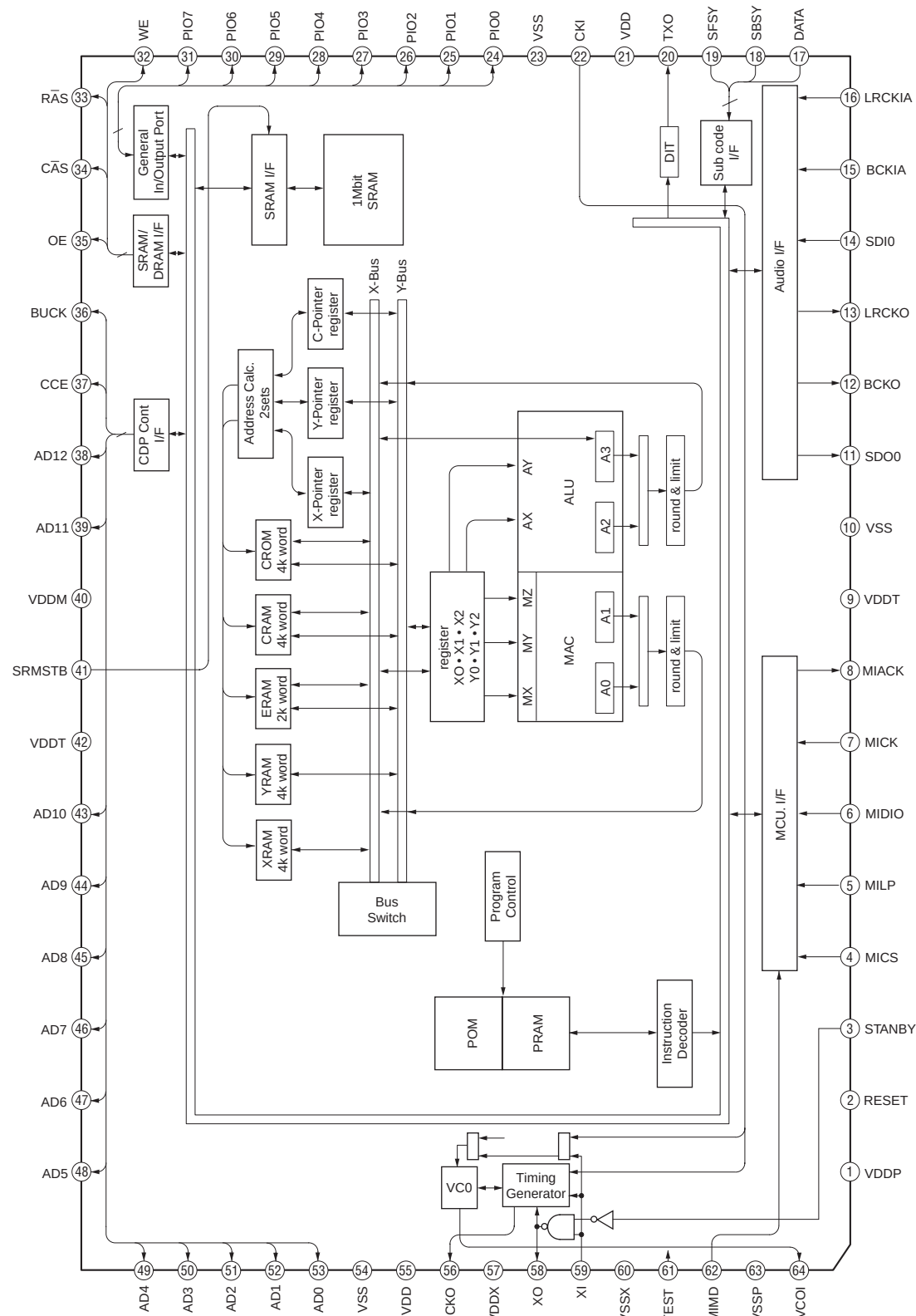




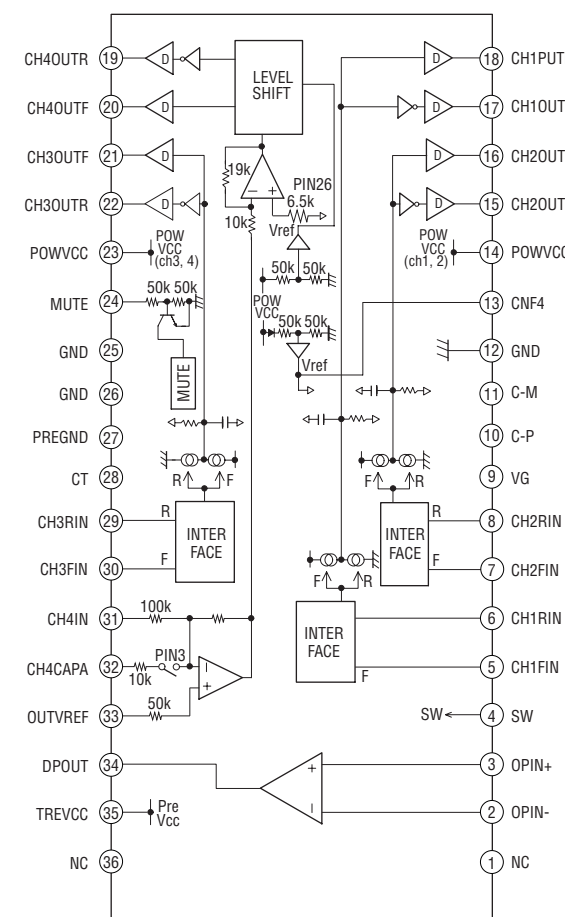


6-19. SCHEMATIC DIAGRAM – POWER SECTION –



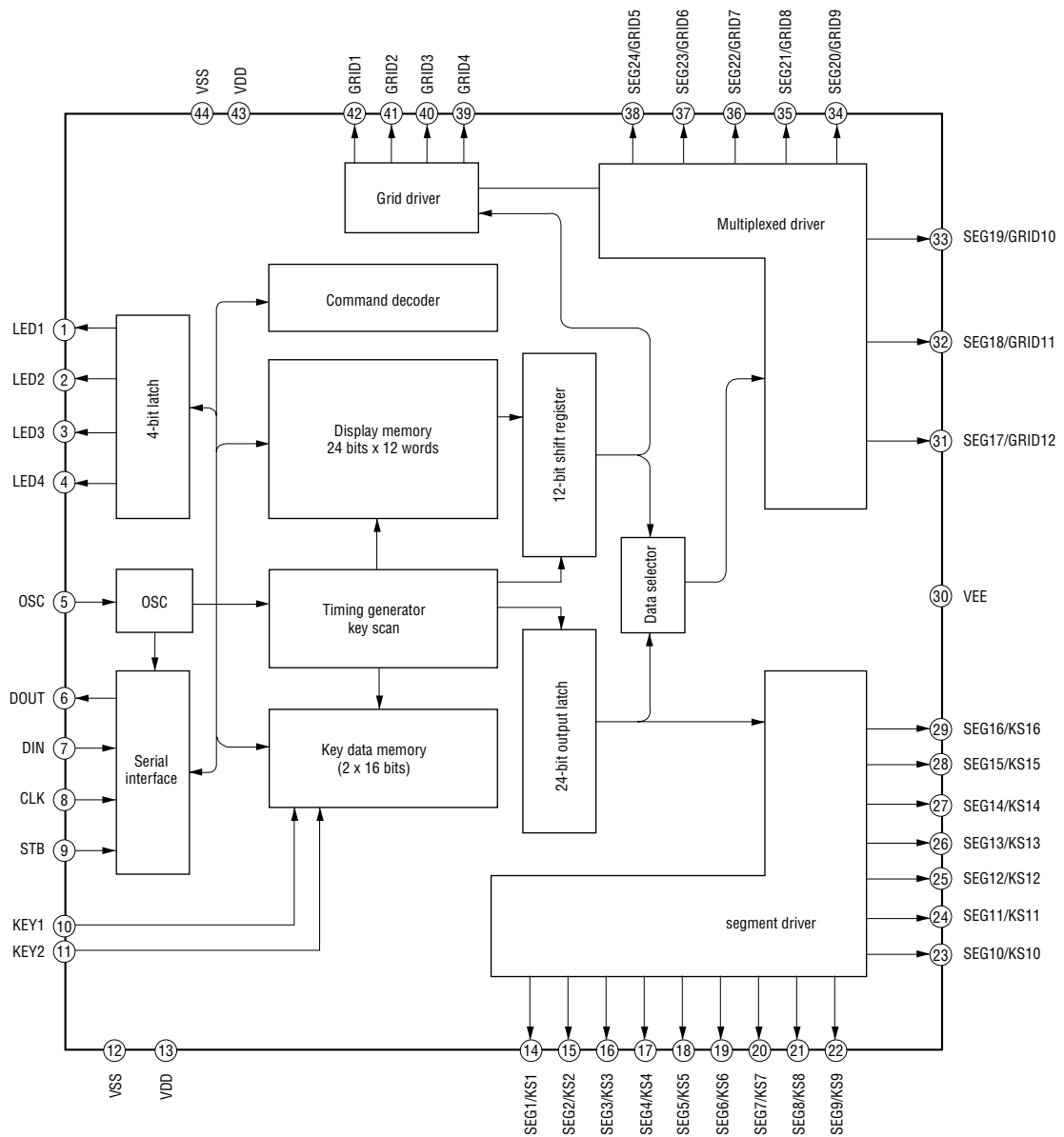


— DS-MAIN Board —



— DS-PANEL Board —

IC601 uPD163315GB-3BS



• IC Pin Function Description

BD BOARD IC101 CXD3059AR (RF AMP)

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	GFS is sampled at 460Hz; when GFS is high , this pin outputs a high signal If GFS is low eight consecutive
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	SRDR	O	Sled drive output
11	TFDR	O	Tracking drive output
12	TRDR	O	Tracking drive output
13	FFDR	O	Focus drive output
14	FRDR	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 to DSSP block
22	TEO	O	Tracking error signal output from RF amplifier block
23	FEI	I	Focus error signal input to DSSP block
24	FEO	O	Focus error signal output from RF amplifier block
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
30	NC	—	Not used
31	AVDD4	—	Analog power supply
32	RFDCO	O	RFDC signal output (Not used)
33	PDSSENS	I	Reference voltage pin for PD
34	AC_SUM	O	RFAC summing amplifier output
35	EQ_IN	I	Equalizer circuit input
36	LD	O	APC amplifier output
37	PD	I	APC amplifier 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 (Low = VSS, High = VDD)

Pin No.	Pin Name	I/O	Description
47	VPCO	O	Wide-band EFM PLL charge pump output
48	VCTL	I	Wide-band EFM PLL VCO2 control voltage input
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 pin
57	AVSS5	—	Analog ground
58	DDCR	I	DC/DC converter reset pin
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

Pin No.	Pin Name	I/O	Description
96	SQSO	O	Subcode Q 80-bit and PCM peak and level data output CD TEXT data output
97	SQCK	I	SQSO readout clock input
98	SBSO	O	Subcode P to W serial output
99	EXCK	I	SBSO readout clock input
100	XRST	I	System reset Reset when low
101	SYSM	I	Mute input Muted when high
102	D ATA	I	Serial data input from CPU
103	VSS	—	Internal digital ground
104	XLAT	I	Latch input from CPU The serial data is latched at the falling edge
105	CLOCK	I	Serial data transfer clock input from CPU
106	VDD	—	Internal digital power supply
107	SENS	O	SENS output to CPU
108	SCLK	I	SENS serial data readout clock input
109	ATSK	I/O	Anti-shock input/output
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

DS-PANEL BOARD IC604 M30302MCP-A04FPU0 (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	P96	O	Solenoid control signal output to the tape deck
2	P95	I	PLAY switch signal input from the tape deck
3	P94	I	Record protect detect switch signal input (rear)
4	P93	I	Record protect detect switch signal input (f)
5	P92	I	PACK detect switch signal input
6	P91	O	Tape motor control signal output
7	P90	I	Remote control signal input from the remote sensor
8	BYTE	I	Destination setting input terminal
9	CNVSS	—	Not used
10	XCIN	I	Oscillation circuit signal input for the real time clock
11	XOUT	O	Oscillation circuit signal output for the real time clock
12	RES	I	Reset signal input
13	XOUT	O	Oscillation circuit signal output for the system main clock
14	VSS	—	Ground terminal
15	XIN	I	Oscillation circuit signal input for the system main clock
16	VCC1	—	Power supply terminal (+3.3 V)
17	P85/MNI	—	Not used (pull up)
18	P84/INT2	I	Clock signal input from the tuner
19	P83/INT1	I	SCOR signal input from the CD unit
20	P82/INT0	I	Power down detection signal input
21	P81	O	Main power control signal output
22	P80	O	AMP control signal output
23	P77	O	Muting control signal output to the tuner Level control signal output for i-Bass
24	P76	O	Bias control signal output to the tape deck
25	P75	O	Playback selection signal output for the tape deck
26	P74	I	Tuner tuned status signal input from the tuner
27	P73/CTS2	I	Stereo detection signal input from the tuner
28	P72/CLK2	O	Clock output to the MP3 IC
29	P71/RXD2	I/O	The MP3 IC data signal
30	P70/TXD2	—	Not used
31	P67/TXD1	O	Data output to the CD unit
32	P66/RXD1	I	SENS signal input from the CD unit
33	P65/CLK1	O	Clock output to the CD unit
34	P64/CTS1	—	Not used
35	P63/TXDO	O	Data output to the LCD driver
36	P62/RXDO	O	Chip select signal output to the LCD driver
37	P61/CLKO	O	Clock signal output to the LCD driver
38	P60/CTSO	O	Data output to the tuner and function IC
39	P57/CLKOUT	O	Clock output to the function IC
40	P56	O	Latch signal output to the tuner
41	P55	—	Not used (pull down)
42	P54	O	Clock output to the tuner
43	P53	I	Data input from the tuner
44	P52	I	RDS signal input from the tuner
45	P51	O	Standby LED control signal output
46	P50	—	Not used (pull up)
47	P47	O	CD motor control signal output
48	P46	O	CD motor drivel signal output (+M2)

Pin No.	Pin Name	I/O	Description
49	P45	O	CD motor drive1 signal output (–M2)
50	P44	O	CD motor drive signal output (+M1)
48	O-MILP	O	Latch pulse signal output to the MP3 IC
49	O-MP3STBY	O	Strobe signal output to the MP3 IC
51	P43	O	CD motor drive signal output (–M1)
52	P42	O	LED (i-Bass) control signal output
53	P41	I	Switch8 signal input from the CD mechanism
54	P40	I	Switch5 signal input from the CD mechanism
55	P37	I	Switch6 signal input from the CD mechanism
56	P36	I	Switch2 signal input from the CD mechanism
57	P35	I	Switch7 signal input from the CD mechanism
58	P34	I	Switch1 signal input from the CD mechanism
59	P33	I	Switch3 signal input from the CD mechanism
60	P32	O	XTCN signal output to the CD unit
61	P31	O	Reset signal output to the MP3 IC
62	VCC2	—	Power supply terminal (+3.3 V)
63	P30	O	MICS signal output to the MP3 IC
64	VSS2	—	Ground terminal
65	P27	I	Acknowledge signal input from the MP3 IC
66	P26	O	Strobe signal output to the MP3 IC
67	P25	I	Request signal input from the MP3 IC
68	P24	O	Latch pulse signal output to the MP3 IC
69	P23	O	XLT signal output to the CD unit
70	P22	O	Reset signal output to the CD unit
71	P21	—	Not used
72	P22	—	Not used
73	P23	—	Not used
74	P16/INT4	I	SENS signal from the Function Key
75	P15/INT3	—	Not used
76	P14	—	Not used
77	P13	—	Not used
78	P12	—	Not used
79	P11	—	Not used
80	P10	—	Not used
81	P07/AN07	O	LED6 drive signal output
82	P06/AN06	O	LED5 drive signal output
83	P05/AN05	O	LED4 drive signal output
84	P04/AN04	O	LED3 drive signal output
85	P03/AN03	O	LED2 drive signal output
86	P02/AN02	O	LED1 drive signal output
87	P01/AN01	I	Voltage detection signal input
88	P00/AN00	O	LED control signal output
89	P107/AN7	I	Key1 input
90	P106/AN6	I	Key2 input
91	P105/AN5	I	Key3 input
92	P104/AN4	I	Model signal input
93	P103/AN3	I	SUFFIX signa input
94	P102/AN2	I	END switch signal input from the tape deck
95	P101/AN1	I	Treble signal input from the rotary encoder

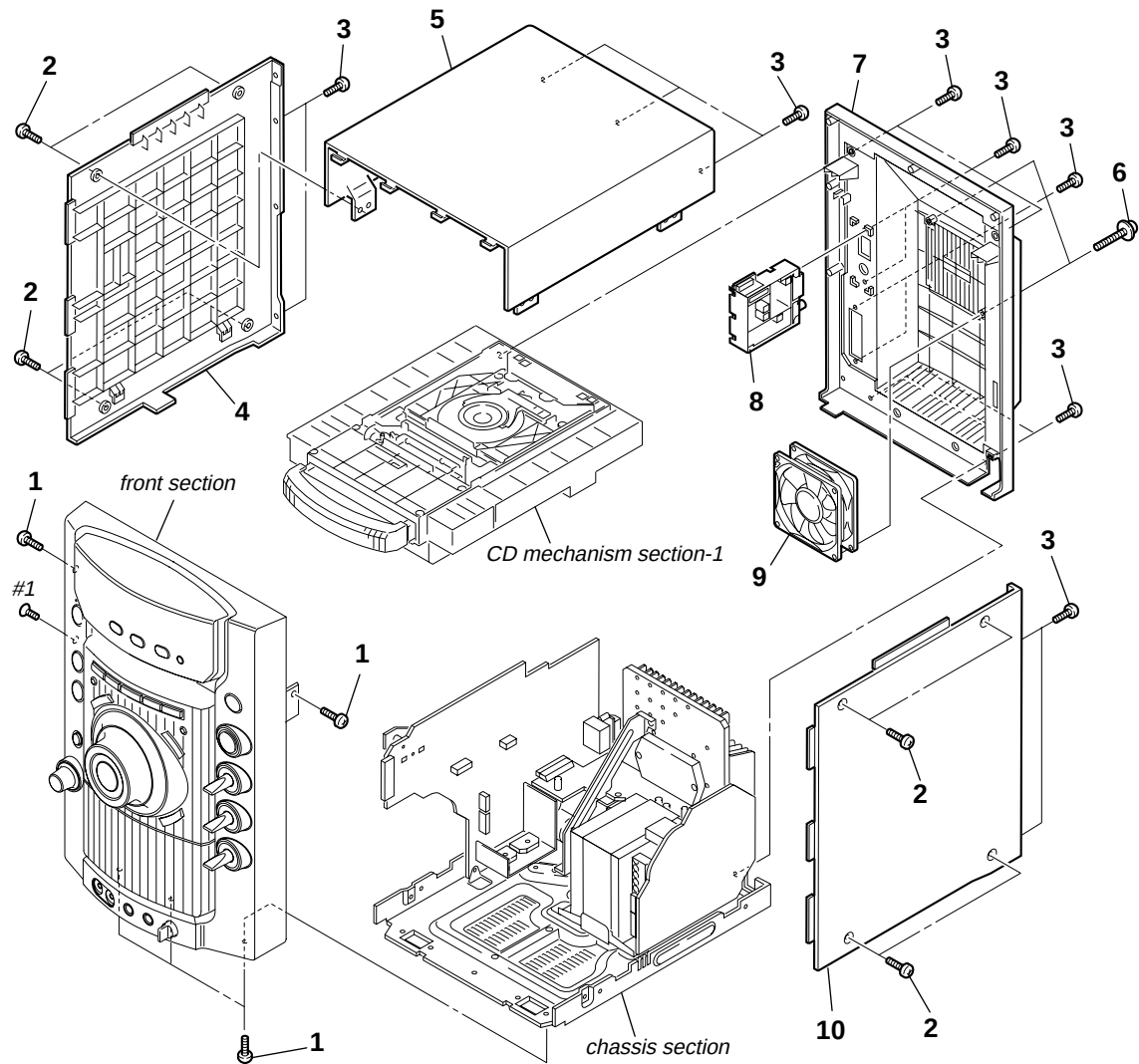
Pin No.	Pin Name	I/O	Description
96	AVSS	—	Ground terminal
97	P100/AN0	I	Volume signal input from the rotary encoder
98	VREF	I	Reference voltage
99	AVCC	—	Power supply terminal (+3.3V)
100	P97	O	Motor control signal output to the tape deck

SECTION 7
EXPLODED VIEWS

- NOTE:**

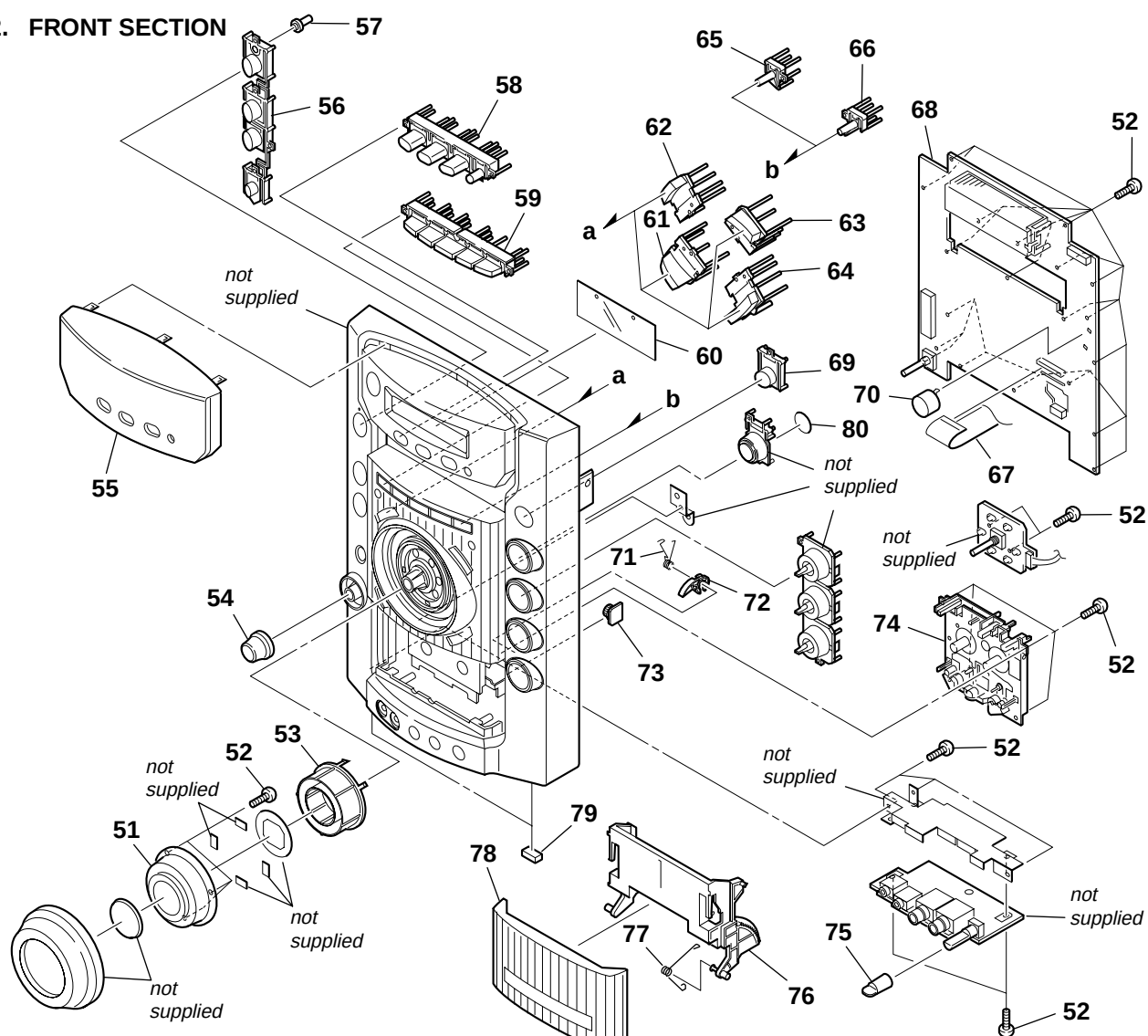
 - XX and -X mean standardized parts, so they may have some difference from the original one.
 - Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
 - Abbreviation
AUS : Australian model.
E51 : Chilean and Peruvian model.
MX : Mexican model.
RU : Russian model.
- The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

7-1. OVERALL SECTION



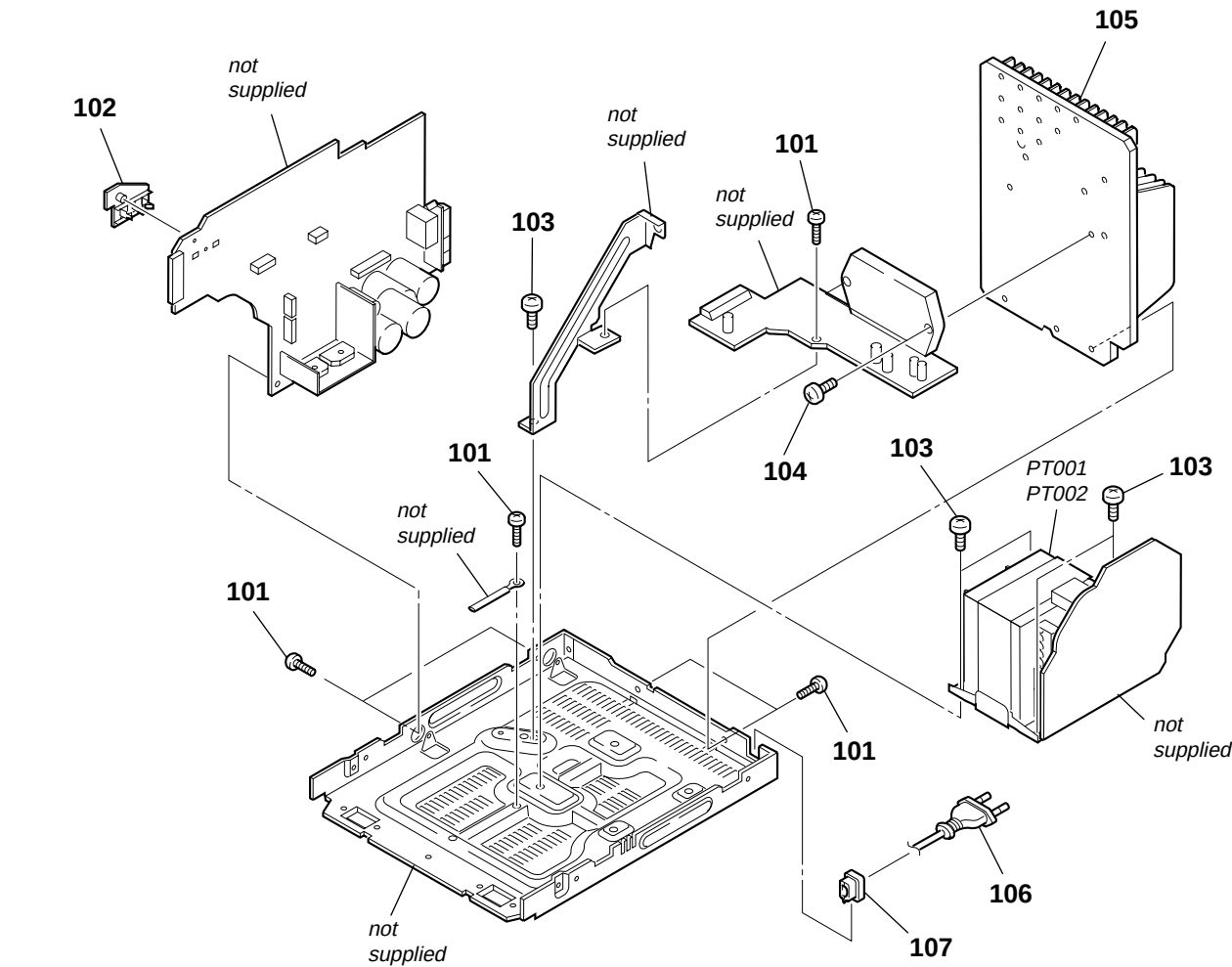
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	3-254-142-01	SCREW (B3), (+) BV TAPPING		7	2-515-153-11	CABINET, REAR (E51, AUS)	
2	3-363-099-32	SCREW (CASE 3 TP2)		8	1-693-626-11	TUNER (FM/AM) (AEP)	
3	3-254-143-11	SCREW (B3), (+) BV TAPPING		8	1-693-628-11	TUNER (FM/AM) (MX, E51, AUS)	
4	2-515-154-01	PANEL, LEFT		8	1-693-629-11	TUNER (FM/AM) (RU)	
5	2-515-156-01	PANEL, TOP		9	1-787-344-11	FAN, DC	
6	3-254-146-11	SCREW (B3), (+) BV TAPPING		10	2-515-155-01	PANEL, RIGHT	
7	2-515-153-01	CABINET, REAR (AEP, MX, RU)		#1	7-685-245-19	SCREW +KTP 3X6 TYPE2 NON-SLIT	

7-2. FRONT SECTION



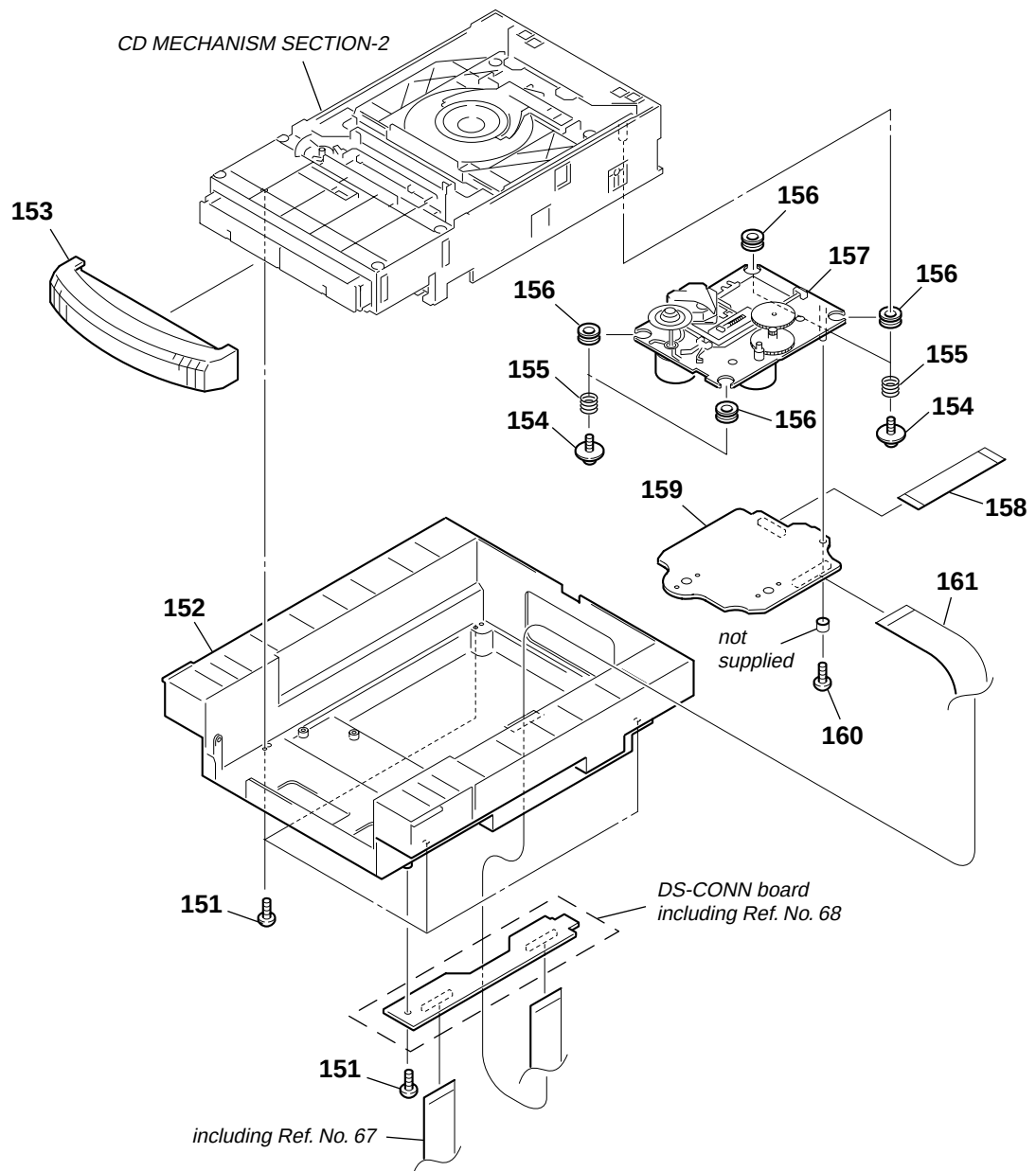
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	2-515-182-01	REFLECTOR (VOL)		68	A-1101-547-A	DS-PANEL BOARD, COMPLETE (including DS-CONN BOARD) (AEP)	
52	3-254-151-01	SCREW (B2.6), (+) P TAPPING		68	A-1101-554-A	DS-PANEL BOARD, COMPLETE (including DS-CONN BOARD) (JDS20: RU)	
53	2-515-186-01	GUIDE (LED VOL)		68	A-1101-560-A	DS-PANEL BOARD, COMPLETE (including DS-CONN BOARD) (AUS)	
54	2-515-187-01	KNOB (RTRY AMS) (JDS50)		68	A-1101-564-A	DS-PANEL BOARD, COMPLETE (including DS-CONN BOARD) (JDS20: E51)	
54	2-515-187-11	KNOB (RTRY AMS) (JDS20)		68	A-1101-566-A	DS-PANEL BOARD, COMPLETE (including DS-CONN BOARD) (JDS20: MX)	
55	2-515-157-01	WINDOW (DISPLAY) (EXCEPT AEP)		69	2-515-172-01	KEY (CD O/C)	
55	2-515-157-11	WINDOW (DISPLAY) (AEP)		70	2-580-316-01	GUIDE (LED IBS)	
56	2-515-168-01	KEY (POWER)		71	4-231-841-01	SPRING (HEART CAM-B)	
57	2-515-169-01	REFLECTOR, POWER		72	4-231-825-01	CAM (B), HEART	
58	2-515-170-01	KEY (CD)		73	4-242-171-01	DAMPER 150 N	
59	2-515-174-01	KEY (OPE) (JDS50)		74	1-796-351-51	MECHANISM, SIGNAL CASSETTE (CMAL1Z240A) (JDS50)	
59	2-515-174-11	KEY (OPE) (JDS20)		74	1-796-352-41	DECK, MECHANICAL (CMAL5Z220A) (JDS20)	
60	2-515-246-01	SHEET (FL)		75	2-586-559-01	KNOB (MIC) (EXCEPT AEP)	
61	2-515-178-01	KEY (VOL A)		76	2-515-151-01	BOX, CASSETTE	
62	2-515-179-01	KEY (VOL B)		77	2-515-245-01	SPRING (CASS)	
63	2-515-180-01	KEY (VOL C)		78	2-515-152-01	PANEL, CASSETTE (JDS50)	
64	2-515-181-01	KEY (VOL D)		78	2-515-152-21	PANEL, CASSETTE (JDS20)	
65	2-515-171-01	KEY (CD SYNC)		79	4-225-252-01	CUSHION (FOOT)	
66	2-515-175-01	KEY (REC)		80	2-515-173-01	SHEET (IBS)	
67	1-830-653-11	WIRE (FLAT TYPE) (27 CORE)					
68	A-1101-341-A	DS-PANEL BOARD, COMPLETE (including DS-CONN BOARD) (JDS50: E51)					
68	A-1101-495-A	DS-PANEL BOARD, COMPLETE (including DS-CONN BOARD) (JDS50: RU)					
68	A-1101-497-A	DS-PANEL BOARD, COMPLETE (including DS-CONN BOARD) (JDS50: MX)					

7-3. CHASSIS SECTION



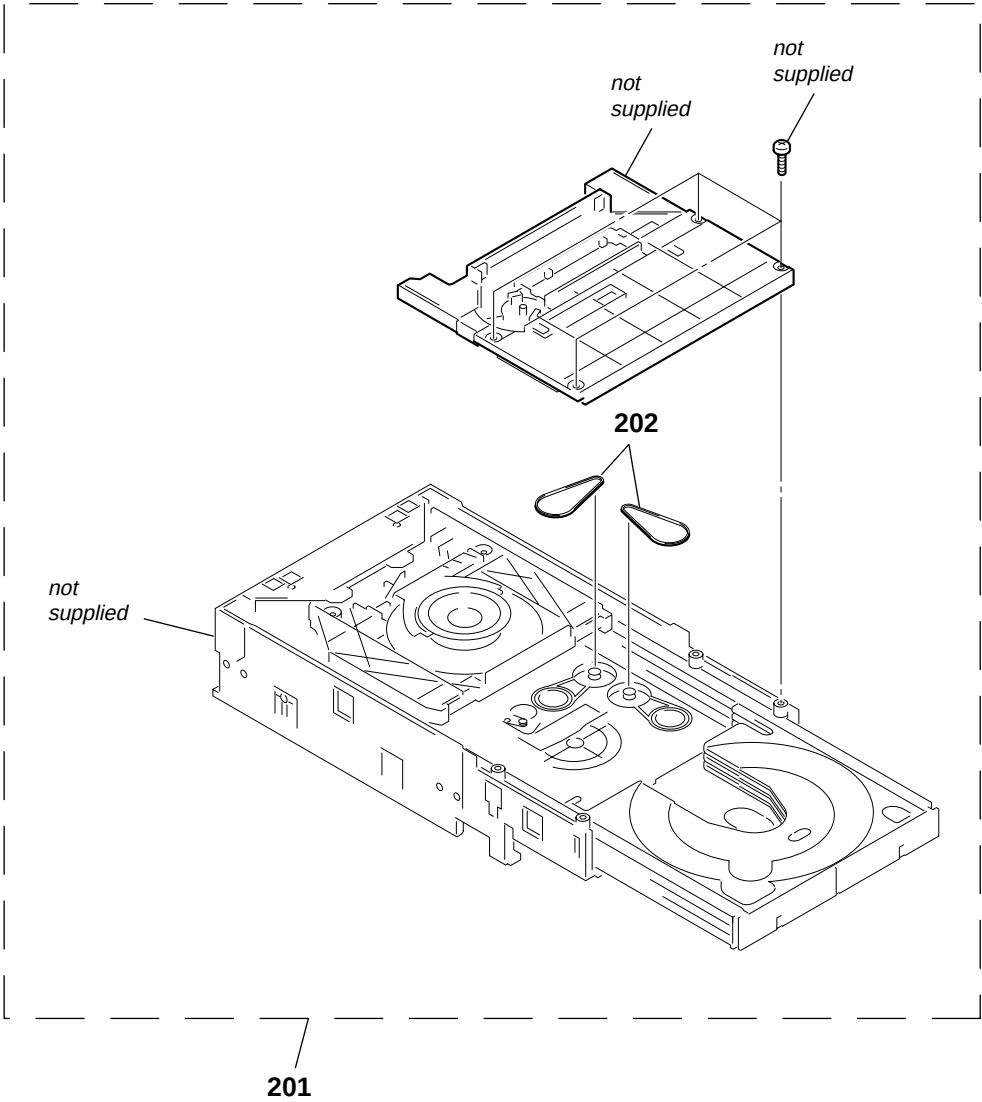
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	3-254-142-01	SCREW (B3), (+) BV TAPPING		△ 106	1-830-384-11	CORD, POWER (AEP, E51, RU)	
102	2-515-258-01	HOLDER (MAIN)		107	3-703-244-00	BUSHING (2104), CORD (EXCEPT MX)	
103	4-900-386-01	SCREW		* 107	3-703-571-12	BUSHING (S) (4516), CORD (MX)	
104	3-905-609-31	SCREW (TRANSISTOR)		△ PT001	1-443-699-11	TRANSFORMER, POWER (JDS50: RU)	
105	X-2055-087-1	HEAT SINK ASSY (50) (JDS50)		△ PT001	1-443-703-11	TRANSFORMER, POWER (JDS20: AEP, RU)	
105	X-2055-754-1	HEAT SINK, ASSY (20) (JDS20: AEP, MX, E51, RU)		△ PT001	1-443-721-11	TRANSFORMER, POWER (JDS50: MX)	
105	X-2055-755-1	HEAT SINK, ASSY (20-HI) (AUS)		△ PT001	1-443-723-11	TRANSFORMER, POWER (JDS20: MX)	
△ 106	1-775-790-71	CORD, POWER (AUS)		△ PT002	1-443-698-11	TRANSFORMER, POWER (JDS50: E51)	
△ 106	1-827-226-31	CORD, POWER (MX)		△ PT002	1-443-702-11	TRANSFORMER, POWER (JDS20: E51, AUS)	

7-4. CD MECHANISM SECTION-1



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	3-254-151-01	SCREW (B2.6), (+) P TAPPING		△ 157	8-820-244-01	OPTICAL PICK-UP KSM-215DCP/C2NP	
152	2-515-252-01	HOLDER (CD MECH)		158	1-827-992-11	WIRE (FLAT TYPE) (16 CORE)	
153	2-515-158-01	PANEL, TRAY		159	A-4751-431-A	BD BOARD, COMPLETE	
154	4-985-672-01	SCREW (+PTPWHM2.6), FLOATING		160	3-087-053-01	+BVTP2.6 (3CR)	
155	4-227-045-11	SPRING (INSULATOR), COIL					
156	4-227-549-11	INSULATOR		161	1-775-251-11	WIRE (FLAT TYPE)(27 CORE)	

7-5. CD MECHANISM SECTION-2



<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
201	1-797-193-11	MECH, CD (BU-F1BD81C)	
202	2-632-062-01	BELT (DLM3A)	

SECTION 8

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

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

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

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

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

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
	A-4751-431-A	BD BOARD, COMPLETE *****									
		< CAPACITOR >									
C10	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V	C203	1-128-995-21	ELECT CHIP	100uF	20%	10V
C11	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V	C209	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C14	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C210	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C15	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C211	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C16	1-115-156-11	CERAMIC CHIP	1uF		10V						
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						
C115	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C257	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C116	1-128-995-21	ELECT CHIP	100uF	20%	10V	C258	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C122	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C259	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C123	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C260	1-128-394-11	ELECT CHIP	220uF	20%	10V
						C302	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C124	1-162-959-11	CERAMIC CHIP	330PF	5%	50V						
C125	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C303	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C131	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C305	1-126-246-11	ELECT CHIP	220uF	20%	4V
C132	1-117-863-11	CERAMIC CHIP	0.47uF	10%	6.3V	C306	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C133	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C307	1-164-360-11	CERAMIC CHIP	0.1uF		16V
						C308	1-126-208-21	ELECT CHIP	47uF	20%	4V
C134	1-164-360-11	CERAMIC CHIP	0.1uF		16V						
C141	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C309	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C142	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V	C310	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C143	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C311	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C151	1-128-995-21	ELECT CHIP	100uF	20%	10V	C312	1-164-360-11	CERAMIC CHIP	0.1uF		16V
						C313	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C161	1-164-360-11	CERAMIC CHIP	0.1uF		16V						
C162	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C314	1-126-208-21	ELECT CHIP	47uF	20%	4V
C163	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C315	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C171	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	C316	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C172	1-162-920-11	CERAMIC CHIP	27PF	5%	50V	C317	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
						C318	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C174	1-164-360-11	CERAMIC CHIP	0.1uF		16V						
C181	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C320	1-216-864-11	SHORT CHIP	0		
C182	1-164-360-11	CERAMIC CHIP	0.1uF		16V						
C183	1-124-778-00	ELECT CHIP	22uF	20%	6.3V						
C184	1-124-778-00	ELECT CHIP	22uF	20%	6.3V						
C185	1-164-315-11	CERAMIC CHIP	470PF	5%	50V						
C186	1-164-315-11	CERAMIC CHIP	470PF	5%	50V						
C194	1-164-360-11	CERAMIC CHIP	0.1uF		16V						
C195	1-164-360-11	CERAMIC CHIP	0.1uF		16V						
C196	1-164-360-11	CERAMIC CHIP	0.1uF		16V						
C201	1-128-995-21	ELECT CHIP	100uF	20%	10V						

< CONNECTOR >

CN101 1-770-425-11 CONNECTOR, FFC/FPC 16P
CN201 1-818-350-11 CONNECTOR (FFC) 27P

< FERRITE BEAD >

FB301 1-500-445-21 FERRITE, EMI (SMD) (2012)

< IC >

IC101 8-752-425-12 IC CXD3059AR
IC251 6-705-808-01 IC BA5947FM-E2
IC301 6-705-365-01 IC TC94A34FG-002
IC303 6-705-807-01 IC BH15FB1WG

CX-JDS20/JDS50

BD DS-AMPLIFIER (403)

Ref. No.	Part No.	Description	Remark		
< TRANSISTOR >					
Q10	6-551-120-01	TRANSISTOR	2SA2119K		
< RESISTOR >					
R10	1-216-791-11	METAL CHIP	3.3	5%	1/10W
R11	1-216-864-11	SHORT CHIP	0		
R12	1-216-845-11	METAL CHIP	100K	5%	1/10W
R13	1-218-446-11	METAL CHIP	1	5%	1/10W
R111	1-216-821-11	METAL CHIP	1K	5%	1/10W
R112	1-216-835-11	METAL CHIP	15K	5%	1/10W
R113	1-216-821-11	METAL CHIP	1K	5%	1/10W
R114	1-216-835-11	METAL CHIP	15K	5%	1/10W
R121	1-216-835-11	METAL CHIP	15K	5%	1/10W
R131	1-216-857-11	METAL CHIP	1M	5%	1/10W
R132	1-216-833-11	METAL CHIP	10K	5%	1/10W
R133	1-216-848-11	METAL CHIP	180K	5%	1/10W
R141	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R142	1-216-821-11	METAL CHIP	1K	5%	1/10W
R143	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R151	1-216-864-11	SHORT CHIP	0		
R161	1-216-809-11	METAL CHIP	100	5%	1/10W
R162	1-216-841-11	METAL CHIP	47K	5%	1/10W
R163	1-216-809-11	METAL CHIP	100	5%	1/10W
R165	1-216-864-11	SHORT CHIP	0		
R171	1-216-817-11	METAL CHIP	470	5%	1/10W
R172	1-216-857-11	METAL CHIP	1M	5%	1/10W
R173	1-216-295-91	SHORT CHIP	0		
R181	1-216-809-11	METAL CHIP	100	5%	1/10W
R182	1-216-809-11	METAL CHIP	100	5%	1/10W
R191	1-216-864-11	SHORT CHIP	0		
R201	1-500-445-21	FERRITE, EMI (SMD) (2012)			
R203	1-216-864-11	SHORT CHIP	0		
R204	1-500-445-21	FERRITE, EMI (SMD) (2012)			
R205	1-216-864-11	SHORT CHIP	0		
R251	1-216-833-11	METAL CHIP	10K	5%	1/10W
R252	1-216-837-11	METAL CHIP	22K	5%	1/10W
R253	1-216-833-11	METAL CHIP	10K	5%	1/10W
R301	1-216-845-11	METAL CHIP	100K	5%	1/10W
R302	1-216-833-11	METAL CHIP	10K	5%	1/10W
R303	1-216-845-11	METAL CHIP	100K	5%	1/10W
R305	1-216-845-11	METAL CHIP	100K	5%	1/10W
R306	1-216-864-11	SHORT CHIP	0		
R307	1-216-833-11	METAL CHIP	10K	5%	1/10W
R313	1-216-813-11	METAL CHIP	220	5%	1/10W
R351	1-216-809-11	METAL CHIP	100	5%	1/10W
R352	1-216-809-11	METAL CHIP	100	5%	1/10W
R353	1-216-809-11	METAL CHIP	100	5%	1/10W
R354	1-216-809-11	METAL CHIP	100	5%	1/10W
R401	1-216-809-11	METAL CHIP	100	5%	1/10W
R402	1-216-809-11	METAL CHIP	100	5%	1/10W
R403	1-216-809-11	METAL CHIP	100	5%	1/10W
R404	1-216-809-11	METAL CHIP	100	5%	1/10W
R405	1-216-809-11	METAL CHIP	100	5%	1/10W
R406	1-216-809-11	METAL CHIP	100	5%	1/10W
R407	1-216-809-11	METAL CHIP	100	5%	1/10W
R408	1-216-809-11	METAL CHIP	100	5%	1/10W
R409	1-216-809-11	METAL CHIP	100	5%	1/10W

Ref. No.	Part No.	Description	Remark			
R410	1-216-809-11	METAL CHIP	100	5%	1/10W	
R411	1-216-809-11	METAL CHIP	100	5%	1/10W	
R412	1-216-809-11	METAL CHIP	100	5%	1/10W	
R419	1-216-809-11	METAL CHIP	100	5%	1/10W	
R502	1-216-864-11	SHORT CHIP	0			
< SWITCH >						
S101	1-771-853-11	SWITCH, DETECTION (LIMIT)				
< VIBRATOR >						
X171	1-767-408-21	VIBRATOR, CRYSTAL (16.9MHz)				

DS-AMPLIFIER (403) BOARD, COMPLETE (JDS20)						

< CAPACITOR >						
C301	1-162-971-11	CERAMIC CHIP	0.001uF	10%	50V	
C302	1-162-971-11	CERAMIC CHIP	0.001uF	10%	50V	
C303	1-126-963-11	ELECT	4.7uF	20%	50V	
C304	1-126-963-11	ELECT	4.7uF	20%	50V	
C305	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	
C306	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	
C307	1-126-961-11	ELECT	2.2uF	20%	50V	
C308	1-126-961-11	ELECT	2.2uF	20%	50V	
C311	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	
C312	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	
C313	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	
C314	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	
C319	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	
C320	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	
C321	1-126-925-91	ELECT	470uF	20%	10V	
C360	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C361	1-126-968-11	ELECT	100uF	20%	50V	
C362	1-110-518-91	ELECT	10uF	20%	100V	
C363	1-110-518-91	ELECT	10uF	20%	100V	
C364	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C365	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
< CONNECTOR >						
CN301	1-778-982-21	CONNECTOR, BOARD TO BOARD 13P				
< DIODE >						
D361	8-719-000-08	DIODE MC2838				
D362	8-719-000-07	DIODE MC2836				
D363	8-719-000-08	DIODE MC2838				
< EARTH TERMINAL >						
* EP301	1-537-738-21	TERMINAL, EARTH				
< IC >						
IC301	6-705-853-01	IC STK403-120				
< SHORT >						
JR301	1-216-864-11	SHORT CHIP	0			

DS-AMPLIFIER (403)

DS-AMPLIFIER (412)

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
JR303	1-216-864-11	SHORT CHIP	0			R348	1-216-837-11	METAL CHIP	22K	5%	1/10W
		< TRANSISTOR >				R349	1-216-864-11	SHORT CHIP	0		
Q301	6-551-270-01	TRANSISTOR	2SA2026			R350	1-216-841-11	METAL CHIP	47K	5%	1/10W
Q302	6-551-270-01	TRANSISTOR	2SA2026			R351	1-216-837-11	METAL CHIP	22K	5%	1/10W
Q303	8-729-120-28	TRANSISTOR	2SC1623-L5L6			R352	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
Q304	8-729-120-28	TRANSISTOR	2SC1623-L5L6			R353	1-216-837-11	METAL CHIP	22K	5%	1/10W
Q305	8-729-600-22	TRANSISTOR	2SA1235-F			R354	1-216-837-11	METAL CHIP	22K	5%	1/10W
Q306	8-729-120-28	TRANSISTOR	2SC1623-L5L6			R355	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q361	8-729-120-28	TRANSISTOR	2SC1623-L5L6			R356	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q362	8-729-600-22	TRANSISTOR	2SA1235-F			R358	1-216-864-11	SHORT CHIP	0		
Q366	6-550-327-01	TRANSISTOR	2SA1514K (S)			R359	1-216-864-11	SHORT CHIP	0		
Q367	6-551-268-01	TRANSISTOR	2SC5625			R360	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
		< RESISTOR >				R361	1-216-837-11	METAL CHIP	22K	5%	1/10W
R301	1-216-821-11	METAL CHIP	1K	5%	1/10W	R362	1-216-833-11	METAL CHIP	10K	5%	1/10W
R302	1-216-821-11	METAL CHIP	1K	5%	1/10W	R363	1-216-821-11	METAL CHIP	1K	5%	1/10W
R303	1-216-837-11	METAL CHIP	22K	5%	1/10W	R364	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R304	1-216-837-11	METAL CHIP	22K	5%	1/10W	R365	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R305	1-216-837-11	METAL CHIP	22K	5%	1/10W	R369	1-216-845-11	METAL CHIP	100K	5%	1/10W
R306	1-216-837-11	METAL CHIP	22K	5%	1/10W	R370	1-216-821-11	METAL CHIP	1K	5%	1/10W
R307	1-216-817-11	METAL CHIP	470	5%	1/10W	R371	1-216-813-11	METAL CHIP	220	5%	1/10W
R308	1-216-817-11	METAL CHIP	470	5%	1/10W	R372	1-216-813-11	METAL CHIP	220	5%	1/10W
R309	1-216-821-11	METAL CHIP	1K	5%	1/10W	R373	1-216-841-11	METAL CHIP	47K	5%	1/10W
R310	1-216-821-11	METAL CHIP	1K	5%	1/10W	R374	1-216-837-11	METAL CHIP	22K	5%	1/10W
R311	1-216-809-11	METAL CHIP	100	5%	1/10W	R376	1-216-813-11	METAL CHIP	220	5%	1/10W
R312	1-216-809-11	METAL CHIP	100	5%	1/10W	R377	1-216-813-11	METAL CHIP	220	5%	1/10W
R313	1-216-837-11	METAL CHIP	22K	5%	1/10W	R391	1-216-864-11	SHORT CHIP	0		
R314	1-216-837-11	METAL CHIP	22K	5%	1/10W	R392	1-216-864-11	SHORT CHIP	0		
R315	1-216-837-11	METAL CHIP	22K	5%	1/10W			< THERMISTOR >			
R316	1-216-837-11	METAL CHIP	22K	5%	1/10W	TH361	1-805-217-21	THERMISTOR (1012)			
R317	1-216-864-11	SHORT CHIP	0			*****					
R318	1-216-864-11	SHORT CHIP	0					DS-AMPLIFIER (412) BOARD, COMPLETE			
R319	1-216-829-11	METAL CHIP	4.7K	5%	1/10W			(JDS50)			
R320	1-216-829-11	METAL CHIP	4.7K	5%	1/10W			*****			
△ R321	1-216-361-31	METAL OXIDE	0.22	5%	2W			< CAPACITOR >			
△ R322	1-216-361-31	METAL OXIDE	0.22	5%	2W	C201	1-162-971-11	CERAMIC CHIP	0.001uF	10%	50V
△ R323	1-216-361-31	METAL OXIDE	0.22	5%	2W	C202	1-162-971-11	CERAMIC CHIP	0.001uF	10%	50V
△ R324	1-216-361-31	METAL OXIDE	0.22	5%	2W	C203	1-126-963-11	ELECT	4.7uF	20%	50V
R329	1-216-813-11	METAL CHIP	220	5%	1/10W	C204	1-126-963-11	ELECT	4.7uF	20%	50V
R330	1-216-813-11	METAL CHIP	220	5%	1/10W	C205	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
R331	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	C206	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
R332	1-216-837-11	METAL CHIP	22K	5%	1/10W	C207	1-126-961-11	ELECT	2.2uF	20%	50V
R333	1-216-837-11	METAL CHIP	22K	5%	1/10W	C208	1-126-961-11	ELECT	2.2uF	20%	50V
R334	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	C209	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
R335	1-216-833-11	METAL CHIP	10K	5%	1/10W	C211	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
R336	1-216-833-11	METAL CHIP	10K	5%	1/10W	C212	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
R337	1-216-841-11	METAL CHIP	47K	5%	1/10W	C213	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
R338	1-216-841-11	METAL CHIP	47K	5%	1/10W	C214	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
R339	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	C219	1-164-361-11	CERAMIC CHIP	0.047uF		25V
R340	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	C220	1-164-361-11	CERAMIC CHIP	0.047uF		25V
R341	1-216-841-11	METAL CHIP	47K	5%	1/10W	C221	1-126-925-91	ELECT	470uF	20%	10V
R342	1-216-841-11	METAL CHIP	47K	5%	1/10W	C251	1-128-582-11	ELECT	10uF	20%	100V
R343	1-216-813-11	METAL CHIP	220	5%	1/10W	C252	1-128-582-11	ELECT	10uF	20%	100V
R344	1-216-813-11	METAL CHIP	220	5%	1/10W	C253	1-165-621-91	CERAMIC CHIP	0.1uF		50V
R345	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	C254	1-165-621-91	CERAMIC CHIP	0.1uF		50V
R346	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	C259	1-164-156-11	CERAMIC CHIP	0.1uF		25V
R347	1-216-837-11	METAL CHIP	22K	5%	1/10W						

CX-JDS20/JDS50

DS-AMPLIFIER (412)

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C260	1-164-156-11	CERAMIC CHIP	0.1uF		25V	R216	1-216-837-11	METAL CHIP	22K	5%	1/10W
C261	1-164-156-11	CERAMIC CHIP	0.1uF		25V	R217	1-216-864-11	SHORT CHIP	0		
C262	1-110-518-91	ELECT	10uF	20%	100V	R218	1-216-864-11	SHORT CHIP	0		
C263	1-110-518-91	ELECT	10uF	20%	100V	R219	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
						R220	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
C264	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	△ R221	1-216-381-11	METAL OXIDE	0.22	5%	3W
C265	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	△ R222	1-216-381-11	METAL OXIDE	0.22	5%	3W
		< CONNECTOR >				△ R223	1-216-381-11	METAL OXIDE	0.22	5%	3W
CN201	1-778-982-21	CONNECTOR, BOARD TO BOARD 13P				△ R224	1-216-381-11	METAL OXIDE	0.22	5%	3W
		< DIODE >				△ R225	1-216-365-00	METAL OXIDE	0.47	5%	2W
D261	8-719-000-08	DIODE	MC2838			△ R226	1-216-365-00	METAL OXIDE	0.47	5%	2W
D262	8-719-000-07	DIODE	MC2836			△ R227	1-216-365-00	METAL OXIDE	0.47	5%	2W
D263	8-719-000-08	DIODE	MC2838			△ R228	1-216-365-00	METAL OXIDE	0.47	5%	2W
		< EARTH TERMINAL >				R229	1-216-813-11	METAL CHIP	220	5%	1/10W
* EP201	1-537-738-21	TERMINAL, EARTH				R230	1-216-813-11	METAL CHIP	220	5%	1/10W
		< IC >				R231	1-216-833-11	METAL CHIP	10K	5%	1/10W
IC201	6-707-918-01	IC STK412-140-E				R232	1-216-837-11	METAL CHIP	22K	5%	1/10W
		< SHORT >				R233	1-216-837-11	METAL CHIP	22K	5%	1/10W
JR201	1-216-864-11	SHORT CHIP	0			R234	1-216-833-11	METAL CHIP	10K	5%	1/10W
JR203	1-216-864-11	SHORT CHIP	0			R235	1-216-837-11	METAL CHIP	22K	5%	1/10W
		< TRANSISTOR >				R236	1-216-837-11	METAL CHIP	22K	5%	1/10W
Q201	6-551-270-01	TRANSISTOR	2SA2026			R237	1-216-837-11	METAL CHIP	22K	5%	1/10W
Q202	6-551-270-01	TRANSISTOR	2SA2026			R238	1-216-837-11	METAL CHIP	22K	5%	1/10W
Q203	8-729-120-28	TRANSISTOR	2SC1623-L5L6			R239	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
Q204	8-729-120-28	TRANSISTOR	2SC1623-L5L6			R240	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
Q205	8-729-600-22	TRANSISTOR	2SA1235-F			R241	1-216-841-11	METAL CHIP	47K	5%	1/10W
Q206	8-729-120-28	TRANSISTOR	2SC1623-L5L6			R242	1-216-841-11	METAL CHIP	47K	5%	1/10W
Q261	8-729-120-28	TRANSISTOR	2SC1623-L5L6			R243	1-216-813-11	METAL CHIP	220	5%	1/10W
Q262	8-729-600-22	TRANSISTOR	2SA1235-F			R244	1-216-813-11	METAL CHIP	220	5%	1/10W
Q263	6-550-327-01	TRANSISTOR	2SA1514K (S)			R245	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q264	8-729-600-22	TRANSISTOR	2SA1235-F			R246	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q265	8-729-120-28	TRANSISTOR	2SC1623-L5L6			R247	1-216-837-11	METAL CHIP	22K	5%	1/10W
Q266	6-550-327-01	TRANSISTOR	2SA1514K (S)			R248	1-216-837-11	METAL CHIP	22K	5%	1/10W
Q267	6-551-268-01	TRANSISTOR	2SC5625			R249	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
		< RESISTOR >				R250	1-216-841-11	METAL CHIP	47K	5%	1/10W
R201	1-216-821-11	METAL CHIP	1K	5%	1/10W	R251	1-216-837-11	METAL CHIP	22K	5%	1/10W
R202	1-216-821-11	METAL CHIP	1K	5%	1/10W	R252	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R203	1-216-837-11	METAL CHIP	22K	5%	1/10W	R253	1-216-837-11	METAL CHIP	22K	5%	1/10W
R204	1-216-837-11	METAL CHIP	22K	5%	1/10W	R254	1-216-837-11	METAL CHIP	22K	5%	1/10W
R205	1-216-837-11	METAL CHIP	22K	5%	1/10W	R255	1-216-833-11	METAL CHIP	10K	5%	1/10W
R206	1-216-837-11	METAL CHIP	22K	5%	1/10W	R256	1-216-833-11	METAL CHIP	10K	5%	1/10W
R207	1-216-813-11	METAL CHIP	220	5%	1/10W	R257	1-216-797-11	METAL CHIP	10	5%	1/10W
R208	1-216-813-11	METAL CHIP	220	5%	1/10W	R258	1-216-797-11	METAL CHIP	10	5%	1/10W
R209	1-216-821-11	METAL CHIP	1K	5%	1/10W	R259	1-216-864-11	SHORT CHIP	0		
R210	1-216-821-11	METAL CHIP	1K	5%	1/10W	R260	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R211	1-216-809-11	METAL CHIP	100	5%	1/10W	R261	1-216-837-11	METAL CHIP	22K	5%	1/10W
R212	1-216-809-11	METAL CHIP	100	5%	1/10W	R262	1-216-833-11	METAL CHIP	10K	5%	1/10W
R213	1-216-837-11	METAL CHIP	22K	5%	1/10W	R263	1-216-821-11	METAL CHIP	1K	5%	1/10W
R214	1-216-837-11	METAL CHIP	22K	5%	1/10W	R264	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R215	1-216-837-11	METAL CHIP	22K	5%	1/10W	R265	1-216-821-11	METAL CHIP	1K	5%	1/10W
						R266	1-216-841-11	METAL CHIP	47K	5%	1/10W
						R267	1-216-821-11	METAL CHIP	1K	5%	1/10W
						R268	1-216-821-11	METAL CHIP	1K	5%	1/10W
						R269	1-216-837-11	METAL CHIP	22K	5%	1/10W
						R270	1-216-821-11	METAL CHIP	1K	5%	1/10W
						R271	1-216-813-11	METAL CHIP	220	5%	1/10W
						R272	1-216-813-11	METAL CHIP	220	5%	1/10W
						R273	1-216-841-11	METAL CHIP	47K	5%	1/10W

DS-AMPLIFIER (412)

DS-CONN

DS-MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R274	1-216-837-11	METAL CHIP	22K 5% 1/10W	C105	1-127-813-11	ELECT	3300uF 20% 71V (JDS20: MX, E51, AUS)
R275	1-216-833-11	METAL CHIP	10K 5% 1/10W				
R276	1-216-813-11	METAL CHIP	220 5% 1/10W	C105	1-127-815-11	ELECT	3300uF 20% 100V (JDS50: MX, E51)
R277	1-216-813-11	METAL CHIP	220 5% 1/10W	C105	1-135-517-11	ELECT	3300uF 20% 71V (JDS20: AEP, RU)
R278	1-216-825-11	METAL CHIP	2.2K 5% 1/10W				
R279	1-216-805-11	METAL CHIP	47 5% 1/10W	C105	1-135-930-11	ELECT	3300uF 20% 100V (JDS50: RU)
R280	1-216-805-11	METAL CHIP	47 5% 1/10W				
R281	1-259-312-91	CARBON	2.2K 5% 1/2W	C106	1-127-813-11	ELECT	3300uF 20% 71V (JDS20: MX, E51, AUS)
R282	1-259-312-91	CARBON	2.2K 5% 1/2W	C106	1-127-815-11	ELECT	3300uF 20% 100V (JDS50: MX, E51)
R283	1-216-837-11	METAL CHIP	22K 5% 1/10W				
R284	1-216-837-11	METAL CHIP	22K 5% 1/10W	C106	1-135-517-11	ELECT	3300uF 20% 71V (JDS20: AEP, RU)
R285	1-216-833-11	METAL CHIP	10K 5% 1/10W				
R286	1-216-833-11	METAL CHIP	10K 5% 1/10W	C106	1-135-930-11	ELECT	3300uF 20% 100V (JDS50: RU)
R287	1-216-821-11	METAL CHIP	1K 5% 1/10W	C107	1-119-940-51	ELECT	4700uF 20% 50V (JDS50)
R288	1-216-821-11	METAL CHIP	1K 5% 1/10W				
R289	1-259-304-91	CARBON	1K 5% 1/2W	C108	1-119-940-51	ELECT	4700uF 20% 50V (JDS50)
R290	1-259-304-91	CARBON	1K 5% 1/2W				
R291	1-216-864-11	SHORT CHIP	0	C109	1-164-156-11	CERAMIC CHIP	0.1uF 25V
R292	1-216-864-11	SHORT CHIP	0				
< THERMISTOR >				C110	1-164-156-11	CERAMIC CHIP	0.1uF 25V
TH261	1-805-217-21	THERMISTOR (1012)	*****	C111	1-126-944-11	ELECT	3300uF 20% 25V
				C112	1-126-965-91	ELECT	22uF 20% 50V
				C113	1-126-968-11	ELECT	100uF 20% 50V
				C114	1-164-156-11	CERAMIC CHIP	0.1uF 25V
				C115	1-162-968-11	CERAMIC CHIP	0.0047uF 10% 50V
A-1101-341-A	DS-CONN BOARD			C116	1-162-974-11	CERAMIC CHIP	0.01uF 50V (EXCEPT AEP)
	(including DS-PANEL BOARD, COMPLETE) (JDS50: E51)			C117	1-126-947-11	ELECT	47uF 20% 35V
A-1101-495-A	DS-CONN BOARD						
	(including DS-PANEL BOARD, COMPLETE) (JDS50: RU)			C118	1-126-933-11	ELECT	100uF 20% 16V
A-1101-497-A	DS-CONN BOARD			C119	1-126-967-11	ELECT	47uF 20% 50V
	(including DS-PANEL BOARD, COMPLETE) (JDS50: MX)			C120	1-126-927-11	ELECT	2200uF 20% 10V
A-1101-547-A	DS-CONN BOARD						
	(including DS-PANEL BOARD, COMPLETE) (AEP)			C123	1-115-156-11	CERAMIC CHIP	1uF 10V
A-1101-554-A	DS-CONN BOARD			C124	1-115-156-11	CERAMIC CHIP	1uF 10V
	(including DS-PANEL BOARD, COMPLETE) (JDS20: RU)			C127	1-164-156-11	CERAMIC CHIP	0.1uF 25V
A-1101-560-A	DS-CONN BOARD			C151	1-104-658-91	ELECT	100uF 20% 10V
	(including DS-PANEL BOARD, COMPLETE) (AUS)			C152	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
A-1101-564-A	DS-CONN BOARD						
	(including DS-PANEL BOARD, COMPLETE) (JDS20: E51)			C171	1-164-156-11	CERAMIC CHIP	0.1uF 25V
A-1101-566-A	DS-CONN BOARD			C172	1-164-156-11	CERAMIC CHIP	0.1uF 25V
	(including DS-PANEL BOARD, COMPLETE) (JDS20: MX)			C173	1-164-156-11	CERAMIC CHIP	0.1uF 25V
*****				C174	1-164-156-11	CERAMIC CHIP	0.1uF 25V
< CONNECTOR >				C175	1-164-156-11	CERAMIC CHIP	0.1uF 25V
CN605	1-779-295-11	CONNECTOR, FFC (LIF (NON-ZIF)) 27P		C176	1-164-156-11	CERAMIC CHIP	0.1uF 25V
CN606	1-779-295-11	CONNECTOR, FFC (LIF (NON-ZIF)) 27P		C177	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
*****				C178	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
DS-MAIN BOARD, COMPLETE				C180	1-164-156-11	CERAMIC CHIP	0.1uF 25V
*****				C401	1-104-658-91	ELECT	100uF 20% 10V
2-515-250-01	2-599-828-01	HEAT SINK (REG) (JDS50)	HEAT SINK (REG-S) (JDS20)	C402	1-104-658-91	ELECT	100uF 20% 10V
				C403	1-127-715-91	CERAMIC CHIP	0.22uF 10% 16V
				C404	1-127-715-91	CERAMIC CHIP	0.22uF 10% 16V
				C405	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
				C406	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C101	1-137-749-11	MYLAR	0.1uF 100V	C407	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
C102	1-137-749-11	MYLAR	0.1uF 100V	C408	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
C103	1-165-621-91	CERAMIC CHIP	0.1uF 50V (JDS50)	C409	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
C104	1-165-621-91	CERAMIC CHIP	0.1uF 50V (JDS50)	C410	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
C411	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	C412	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V

CX-JDS20/JDS50

DS-MAIN

Ref. No.	Part No.	Description			Remark
C413	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C414	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C415	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C416	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C419	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C420	1-131-696-11	FILM	0.22uF	5%	50V
C421	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C422	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C423	1-131-696-11	FILM	0.22uF	5%	50V
C424	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C425	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C426	1-126-963-11	ELECT	4.7uF	20%	50V
C427	1-126-963-11	ELECT	4.7uF	20%	50V
C428	1-126-963-11	ELECT	4.7uF	20%	50V
C429	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C430	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C431	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C432	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C433	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C434	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C435	1-126-960-11	ELECT	1uF	20%	50V
C436	1-126-960-11	ELECT	1uF	20%	50V
C437	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C438	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C439	1-165-621-91	CERAMIC CHIP	0.1uF		50V
C440	1-165-621-91	CERAMIC CHIP	0.1uF		50V
C441	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C442	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C447	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C448	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C449	1-126-961-11	ELECT	2.2uF	20%	50V
C451	1-165-621-91	CERAMIC CHIP	0.1uF		50V
C452	1-165-621-91	CERAMIC CHIP	0.1uF		50V
C453	1-165-621-91	CERAMIC CHIP	0.1uF		50V
C479	1-126-960-11	ELECT	1uF	20%	50V
C480	1-126-960-11	ELECT	1uF	20%	50V
C501	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C502	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C503	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C504	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C505	1-104-658-91	ELECT	100uF	20%	10V
C506	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C507	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C508	1-104-658-91	ELECT	100uF	20%	10V
C509	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C510	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C512	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C513	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C515	1-164-218-11	CERAMIC CHIP	180PF	5%	50V
C516	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C517	1-164-218-11	CERAMIC CHIP	180PF	5%	50V
C518	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C521	1-126-961-11	ELECT	2.2uF	20%	50V
C523	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C524	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C525	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C526	1-137-391-11	MYLAR	0.0047uF	5%	100V
C527	1-164-156-11	CERAMIC CHIP	0.1uF		25V

Ref. No.	Part No.	Description			Remark
C528	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C529	1-126-964-11	ELECT	10uF	20%	50V
C530	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C531	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C532	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C533	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C534	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C535	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C536	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C537	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C538	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C539	1-104-662-91	ELECT	22uF	20%	25V
C541	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C542	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C802	1-126-923-91	ELECT	220uF	20%	10V
C803	1-104-662-91	ELECT	22uF	20%	25V
C804	1-165-621-91	CERAMIC CHIP	0.1uF		50V
C853	1-126-933-11	ELECT	100uF	20%	16V
C872	1-126-947-11	ELECT	47uF	20%	35V
C873	1-126-963-11	ELECT	4.7uF	20%	50V
< CONNECTOR >					
CN101	1-793-766-11	CONNECTOR, BOARD TO BOARD 30P			
CN111	1-568-828-11	CONNECTOR, FFC 9P (AEP)			
CN112	1-568-830-11	CONNECTOR, FFC 11P (EXCEPT AEP)			
CN171	1-778-981-21	CONNECTOR, BOARD TO BOARD 13P			
< CONNECTOR >					
CNP871	1-564-506-11	PLUG, CONNECTOR 3P			
< DIODE >					
D101	6-500-360-01	DIODE	D10XB20 (JDS50)		
D102	6-500-360-01	DIODE	D10XB20 (JDS50)		
D103	6-501-046-01	DIODE	1N5402-F46 (JDS20)		
D104	6-501-046-01	DIODE	1N5402-F46 (JDS20)		
D105	6-501-046-01	DIODE	1N5402-F46 (JDS20)		
D106	6-501-046-01	DIODE	1N5402-F46 (JDS20)		
D111	6-500-522-31	DIODE	10EDB40-TB5		
D112	6-500-522-31	DIODE	10EDB40-TB5		
D113	6-500-522-31	DIODE	10EDB40-TB5		
D114	6-500-522-31	DIODE	10EDB40-TB5		
D115	8-719-083-70	DIODE	UDZSTE-1727B		
D116	8-719-000-07	DIODE	MC2836		
D117	6-500-522-31	DIODE	10EDB40-TB5		
D118	6-500-522-31	DIODE	10EDB40-TB5		
D119	6-500-522-31	DIODE	10EDB40-TB5		
D120	8-719-988-61	DIODE	1SS355TE-17		
D124	6-500-522-31	DIODE	10EDB40-TB5		
D141	8-719-083-57	DIODE	UDZSTE-173.6B		
D152	6-500-335-01	DIODE	MC2838-T112-1 (JDS20)		
D152	8-719-000-08	DIODE	MC2838 (JDS50)		
D153	6-500-335-01	DIODE	MC2838-T112-1 (JDS20)		
D153	8-719-000-08	DIODE	MC2838 (JDS50)		
D154	6-500-335-01	DIODE	MC2838-T112-1 (JDS20)		
D154	8-719-000-08	DIODE	MC2838 (JDS50)		
D155	8-719-000-07	DIODE	MC2836		
D156	8-719-000-07	DIODE	MC2836		

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
D157	8-719-000-07	DIODE MC2836		< RESISTOR >			
D158	6-500-848-01	DIODE MC2840-T112-1		R101	1-216-837-11	METAL CHIP 22K 5%	1/10W (JDS20)
D401	8-719-083-60	DIODE UDZSTE-174.7B		R101	1-216-841-11	METAL CHIP 47K 5%	1/10W (JDS50)
D402	8-719-083-60	DIODE UDZSTE-174.7B		R102	1-216-821-11	METAL CHIP 1K 5%	1/10W (JDS50)
D502	8-719-988-61	DIODE 1SS355TE-17		R102	1-216-833-11	METAL CHIP 10K 5%	1/10W (JDS20)
D801	6-500-848-01	DIODE MC2840-T112-1		R103	1-216-833-11	METAL CHIP 10K 5%	1/10W
D871	6-500-335-01	DIODE MC2838-T112-1 (JDS20)		R104	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
D871	8-719-000-08	DIODE MC2838 (JDS50)		R105	1-216-837-11	METAL CHIP 22K 5%	1/10W (JDS20)
D872	8-719-000-07	DIODE MC2836		R105	1-216-841-11	METAL CHIP 47K 5%	1/10W (JDS50)
< EARTH TERMINAL >				R106	1-216-821-11	METAL CHIP 1K 5%	1/10W (JDS50)
* EP101	1-537-738-21	TERMINAL, EARTH		R106	1-216-833-11	METAL CHIP 10K 5%	1/10W (JDS20)
* EP102	1-537-738-21	TERMINAL, EARTH		R107	1-216-833-11	METAL CHIP 10K 5%	1/10W
< IC >				R108	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
IC101	8-759-231-57	IC TA7810S		R109	1-216-837-11	METAL CHIP 22K 5%	1/10W
IC102	6-702-771-01	IC TA78033LS		R110	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
IC401	6-702-800-01	IC BD3882FV		R111	1-216-833-11	METAL CHIP 10K 5%	1/10W
< JACK >				R112	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
J171	1-536-708-81	TERMINAL BOARD, PUSH (4P) (SPEAKER)		R113	1-216-837-11	METAL CHIP 22K 5%	1/10W
< SHORT >				R114	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
JR801	1-216-864-11	SHORT CHIP 0 (EXCEPT AEP)		R115	1-216-833-11	METAL CHIP 10K 5%	1/10W
JR802	1-216-864-11	SHORT CHIP 0 (EXCEPT AEP)		R116	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
< COIL >				R117	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
L171	1-422-009-13	COIL, AIR-CORE		R118	1-216-821-11	METAL CHIP 1K 5%	1/10W
L172	1-422-009-13	COIL, AIR-CORE		R119	1-216-797-11	METAL CHIP 10 5%	1/10W
L501	1-456-094-11	TRANSFORMER, BIAS OSCILLATION		R120	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
< TRANSISTOR >				R121	1-260-292-11	CARBON 1 5%	1/2W
Q101	8-729-119-76	TRANSISTOR 2SA1175-HFE		R122	1-216-817-11	METAL CHIP 470 5%	1/10W
Q102	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R123	1-216-813-11	METAL CHIP 220 5%	1/10W
Q151	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R124	1-216-817-11	METAL CHIP 470 5%	1/10W
Q152	8-729-600-22	TRANSISTOR 2SA1235-F		R125	1-216-813-11	METAL CHIP 220 5%	1/10W
Q153	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R126	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q401	6-550-554-01	TRANSISTOR UM6K1NFD5TN		R127	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q403	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R128	1-260-064-51	CARBON 1 5%	1/2W
Q501	8-729-600-22	TRANSISTOR 2SA1235-F		R129	1-216-845-11	METAL CHIP 100K 5%	1/10W
Q502	8-729-048-99	TRANSISTOR 2SK2541-T		R130	1-216-837-11	METAL CHIP 22K 5%	1/10W
Q503	8-729-048-99	TRANSISTOR 2SK2541-T		R131	1-216-841-11	METAL CHIP 47K 5%	1/10W
Q504	8-729-048-99	TRANSISTOR 2SK2541-T		R132	1-216-849-11	METAL CHIP 220K 5%	1/10W
Q505	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R133	1-259-296-11	CARBON 470 5%	1/2W (JDS20)
Q506	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R133	1-260-328-11	CARBON 1K 5%	1/2W (JDS50)
Q507	8-729-620-05	TRANSISTOR 2SC2603-EF		R134	1-259-296-11	CARBON 470 5%	1/2W (JDS20)
Q508	8-729-620-05	TRANSISTOR 2SC2603-EF		R134	1-260-328-11	CARBON 1K 5%	1/2W (JDS50)
Q509	8-729-037-03	TRANSISTOR KTA1266GR-AT		R135	1-259-296-11	CARBON 470 5%	1/2W (JDS20)
Q510	8-729-027-56	TRANSISTOR DTC143TKA-T146		R135	1-260-328-11	CARBON 1K 5%	1/2W (JDS50)
Q801	8-729-024-43	TRANSISTOR 2SA1365-T112-1EF		R136	1-259-296-11	CARBON 470 5%	1/2W (JDS20)
Q803	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q871	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q872	8-729-037-03	TRANSISTOR KTA1266GR-AT					
Q873	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q874	8-729-120-28	TRANSISTOR 2SC1623-L5L6					

CX-JDS20/JDS50

DS-MAIN

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R136	1-260-328-11	CARBON	1K	5%	1/2W (JDS50)	R183	1-260-328-11	CARBON	1K	5%	1/2W (JDS50)
R137	1-259-296-11	CARBON	470	5%	1/2W (JDS20)	R184	1-259-296-11	CARBON	470	5%	1/2W (JDS20)
R137	1-260-328-11	CARBON	1K	5%	1/2W (JDS50)	R185	1-249-657-31	CARBON	220	5%	1/2W (JDS20: RU)
R138	1-259-272-91	CARBON	47	5%	1/2W	R185	1-259-288-91	CARBON	220	5%	1/2W (JDS20: AEP, MX, E51, AUS)
R139	1-259-272-91	CARBON	47	5%	1/2W						
R140	1-259-296-11	CARBON	470	5%	1/2W (JDS20)	R191	1-216-821-11	METAL CHIP	1K	5%	1/10W
R140	1-260-328-11	CARBON	1K	5%	1/2W (JDS50)	R192	1-216-821-11	METAL CHIP	1K	5%	1/10W
						R195	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R141	1-216-845-11	METAL CHIP	100K	5%	1/10W	R196	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R142	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R405	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R143	1-216-833-11	METAL CHIP	10K	5%	1/10W	R406	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R144	1-216-833-11	METAL CHIP	10K	5%	1/10W	R407	1-216-833-11	METAL CHIP	10K	5%	1/10W
R145	1-216-864-11	SHORT CHIP	0			R408	1-216-833-11	METAL CHIP	10K	5%	1/10W
R146	1-216-864-11	SHORT CHIP	0			R409	1-216-833-11	METAL CHIP	10K	5%	1/10W (EXCEPT AEP)
R147	1-259-296-11	CARBON	470	5%	1/2W (JDS20)	R409	1-216-864-11	SHORT CHIP	0 (AEP)		
R147	1-260-328-11	CARBON	1K	5%	1/2W (JDS50)	R410	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R148	1-259-296-11	CARBON	470	5%	1/2W (JDS20)	R411	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R149	1-249-657-31	CARBON	220	5%	1/2W (JDS20: RU)	R412	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R149	1-259-288-91	CARBON	220	5%	1/2W (JDS20: AEP, MX, E51, AUS)	R413	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R150	1-259-272-91	CARBON	47	5%	1/2W	R414	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R151	1-216-821-11	METAL CHIP	1K	5%	1/10W	R415	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R152	1-216-821-11	METAL CHIP	1K	5%	1/10W	R416	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R153	1-216-849-11	METAL CHIP	220K	5%	1/10W	R417	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R154	1-216-849-11	METAL CHIP	220K	5%	1/10W	R418	1-216-853-11	METAL CHIP	470K	5%	1/10W
R155	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R419	1-216-853-11	METAL CHIP	470K	5%	1/10W
R156	1-216-825-11	METAL CHIP	2.2K	5%	1/10W						
R157	1-216-821-11	METAL CHIP	1K	5%	1/10W	R420	1-216-849-11	METAL CHIP	220K	5%	1/10W
R158	1-216-821-11	METAL CHIP	1K	5%	1/10W	R421	1-216-845-11	METAL CHIP	100K	5%	1/10W
R159	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R423	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R160	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R424	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R161	1-216-841-11	METAL CHIP	47K	5%	1/10W	R427	1-216-837-11	METAL CHIP	22K	5%	1/10W
R162	1-216-809-11	METAL CHIP	100	5%	1/10W	R428	1-216-837-11	METAL CHIP	22K	5%	1/10W
R163	1-216-841-11	METAL CHIP	47K	5%	1/10W	R429	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (MX, E51)
R164	1-216-809-11	METAL CHIP	100	5%	1/10W	R429	1-216-833-11	METAL CHIP	10K	5%	1/10W (AEP, RU)
R165	1-216-809-11	METAL CHIP	100	5%	1/10W	R429	1-216-841-11	METAL CHIP	47K	5%	1/10W (AUS)
R166	1-216-841-11	METAL CHIP	47K	5%	1/10W	R430	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (MX, E51)
R167	1-216-841-11	METAL CHIP	47K	5%	1/10W						
R168	1-216-841-11	METAL CHIP	47K	5%	1/10W	R430	1-216-833-11	METAL CHIP	10K	5%	1/10W (AEP, RU)
R169	1-216-833-11	METAL CHIP	10K	5%	1/10W	R430	1-216-841-11	METAL CHIP	47K	5%	1/10W (AUS)
R171	1-259-288-91	CARBON	220	5%	1/2W	R433	1-216-841-11	METAL CHIP	47K	5%	1/10W
R172	1-259-288-91	CARBON	220	5%	1/2W	R434	1-216-841-11	METAL CHIP	47K	5%	1/10W
R173	1-259-288-91	CARBON	220	5%	1/2W	R435	1-216-837-11	METAL CHIP	22K	5%	1/10W (AEP, RU, AUS)
R174	1-259-288-91	CARBON	220	5%	1/2W						
R175	1-216-841-11	METAL CHIP	47K	5%	1/10W	R436	1-216-837-11	METAL CHIP	22K	5%	1/10W (AEP, RU, AUS)
R179	1-259-256-11	CARBON	10	5%	1/2W	R437	1-216-821-11	METAL CHIP	1K	5%	1/10W (MX, E51)
R180	1-259-256-11	CARBON	10	5%	1/2W	R437	1-216-864-11	SHORT CHIP	0 (AEP, RU, AUS)		
R181	1-259-256-11	CARBON	10	5%	1/2W	R438	1-216-821-11	METAL CHIP	1K	5%	1/10W (MX, E51)
R182	1-259-256-11	CARBON	10	5%	1/2W						
R183	1-259-296-11	CARBON	470	5%	1/2W (JDS20)	R438	1-216-864-11	SHORT CHIP	0 (AEP, RU, AUS)		
						R439	1-216-825-11	METAL CHIP	2.2K	5%	1/10W

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R440	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R534	1-216-833-11	METAL CHIP	10K	5%	1/10W
R441	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R535	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R442	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R536	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R443	1-216-833-11	METAL CHIP	10K	5%	1/10W	R537	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R444	1-216-833-11	METAL CHIP	10K	5%	1/10W	R538	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R445	1-216-864-11	SHORT CHIP	0			R539	1-216-849-11	METAL CHIP	220K	5%	1/10W
R446	1-216-864-11	SHORT CHIP	0			R540	1-216-833-11	METAL CHIP	10K	5%	1/10W
R447	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R542	1-216-793-11	METAL CHIP	4.7	5%	1/10W
R448	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R544	1-216-833-11	METAL CHIP	10K	5%	1/10W
R449	1-216-821-11	METAL CHIP	1K	5%	1/10W (JDS20)	R545	1-216-833-11	METAL CHIP	10K	5%	1/10W
R449	1-216-864-11	SHORT CHIP	0 (JDS50)			R546	1-216-793-11	METAL CHIP	4.7	5%	1/10W
R450	1-216-821-11	METAL CHIP	1K	5%	1/10W (JDS20)	R547	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R450	1-216-864-11	SHORT CHIP	0 (JDS50)			R548	1-216-793-11	METAL CHIP	4.7	5%	1/10W
R471	1-216-864-11	SHORT CHIP	0			R549	1-216-837-11	METAL CHIP	22K	5%	1/10W (JDS50)
R479	1-216-817-11	METAL CHIP	470	5%	1/10W (JDS50)	R550	1-216-837-11	METAL CHIP	22K	5%	1/10W (JDS50)
R479	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (JDS20)	R573	1-216-821-11	METAL CHIP	1K	5%	1/10W
R480	1-216-817-11	METAL CHIP	470	5%	1/10W (JDS50)	R574	1-216-821-11	METAL CHIP	1K	5%	1/10W
R480	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (JDS20)	R581	1-216-845-11	METAL CHIP	100K	5%	1/10W
R481	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	R582	1-216-833-11	METAL CHIP	10K	5%	1/10W
R482	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	R583	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R501	1-216-841-11	METAL CHIP	47K	5%	1/10W	R801	1-216-833-11	METAL CHIP	10K	5%	1/10W
R502	1-216-849-11	METAL CHIP	220K	5%	1/10W	R803	1-216-864-11	SHORT CHIP	0		
R503	1-216-849-11	METAL CHIP	220K	5%	1/10W	R804	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R504	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R805	1-216-833-11	METAL CHIP	10K	5%	1/10W
R505	1-216-833-11	METAL CHIP	10K	5%	1/10W	R806	1-216-821-11	METAL CHIP	1K	5%	1/10W
R506	1-216-853-11	METAL CHIP	470K	5%	1/10W	R807	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R507	1-216-861-11	METAL CHIP	2.2M	5%	1/10W	R808	1-216-833-11	METAL CHIP	10K	5%	1/10W
R508	1-216-801-11	METAL CHIP	22	5%	1/10W	R809	1-216-833-11	METAL CHIP	10K	5%	1/10W
R509	1-216-805-11	METAL CHIP	47	5%	1/10W	R810	1-216-864-11	SHORT CHIP	0		
R510	1-216-841-11	METAL CHIP	47K	5%	1/10W	R811	1-216-864-11	SHORT CHIP	0		
R511	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R812	1-216-864-11	SHORT CHIP	0		
R512	1-216-833-11	METAL CHIP	10K	5%	1/10W	R813	1-216-864-11	SHORT CHIP	0		
R513	1-216-853-11	METAL CHIP	470K	5%	1/10W	R814	1-216-864-11	SHORT CHIP	0		
R514	1-216-861-11	METAL CHIP	2.2M	5%	1/10W	R851	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (AEP)
R515	1-216-801-11	METAL CHIP	22	5%	1/10W	R854	1-216-809-11	METAL CHIP	100	5%	1/10W (AEP)
R516	1-216-805-11	METAL CHIP	47	5%	1/10W	R857	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (AEP)
R517	1-216-841-11	METAL CHIP	47K	5%	1/10W	R871	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R518	1-216-809-11	METAL CHIP	100	5%	1/10W	R872	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R519	1-216-841-11	METAL CHIP	47K	5%	1/10W	R873	1-259-264-91	CARBON	22	5%	1/2W
R520	1-216-809-11	METAL CHIP	100	5%	1/10W	R874	1-259-264-91	CARBON	22	5%	1/2W
R521	1-216-841-11	METAL CHIP	47K	5%	1/10W	R875	1-216-864-11	SHORT CHIP	0		
R522	1-216-801-11	METAL CHIP	22	5%	1/10W	R876	1-216-821-11	METAL CHIP	1K	5%	1/10W
R523	1-216-837-11	METAL CHIP	22K	5%	1/10W	R877	1-216-837-11	METAL CHIP	22K	5%	1/10W
R524	1-216-821-11	METAL CHIP	1K	5%	1/10W	R878	1-216-837-11	METAL CHIP	22K	5%	1/10W
R525	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R879	1-216-817-11	METAL CHIP	470	5%	1/10W
R526	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R880	1-216-821-11	METAL CHIP	1K	5%	1/10W
R527	1-216-837-11	METAL CHIP	22K	5%	1/10W	R881	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R528	1-216-821-11	METAL CHIP	1K	5%	1/10W	R882	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R529	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R883	1-216-849-11	METAL CHIP	220K	5%	1/10W
R530	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R884	1-216-801-11	METAL CHIP	22	5%	1/10W
R531	1-216-833-11	METAL CHIP	10K	5%	1/10W	R885	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R532	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R533	1-216-833-11	METAL CHIP	10K	5%	1/10W						

CX-JDS20/JDS50

DS-MAIN

DS-PAI/HP/MIC

Ref. No.	Part No.	Description	Remark
< RELAY >			
RY171	1-755-170-11	RELAY (12V)	
< WIRE HOLDER >			
WH101	1-816-818-11	HLDER, WIRE 5P	
WH102	1-817-362-11	HOLDER, WIRE 7P	

DS-PAI/HP/MIC BOARD			

< CAPACITOR >			
C550	1-126-514-11	ELECT	22uF 20% 16V (EXCEPT AEP)
C551	1-115-871-11	ELECT	1uF 20% 50V (EXCEPT AEP)
C552	1-162-962-11	CERAMIC CHIP	470PF 10% 50V (EXCEPT AEP)
C553	1-115-868-11	ELECT	0.22uF 20% 50V (EXCEPT AEP)
C554	1-115-467-11	CERAMIC CHIP	0.22uF 10% 10V (EXCEPT AEP)
C555	1-164-816-11	CERAMIC CHIP	220PF 2% 50V (EXCEPT AEP)
C556	1-164-315-11	CERAMIC CHIP	470PF 5% 50V (EXCEPT AEP)
C557	1-126-176-11	ELECT	220uF 20% 10V (EXCEPT AEP)
C558	1-126-382-11	ELECT	100uF 20% 16V (EXCEPT AEP)
C559	1-164-156-11	CERAMIC CHIP	0.1uF 25V (EXCEPT AEP)
C560	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C561	1-164-156-11	CERAMIC CHIP	0.1uF 25V (EXCEPT AEP)
C562	1-162-927-11	CERAMIC CHIP	100PF 5% 50V (EXCEPT AEP)
C563	1-162-974-11	CERAMIC CHIP	0.01uF 50V (EXCEPT AEP)
C564	1-162-974-11	CERAMIC CHIP	0.01uF 50V (EXCEPT AEP)
C565	1-164-156-11	CERAMIC CHIP	0.1uF 25V (EXCEPT AEP)
C566	1-164-156-11	CERAMIC CHIP	0.1uF 25V (EXCEPT AEP)
C567	1-164-156-11	CERAMIC CHIP	0.1uF 25V (EXCEPT AEP)
C568	1-164-156-11	CERAMIC CHIP	0.1uF 25V (EXCEPT AEP)
C569	1-164-156-11	CERAMIC CHIP	0.1uF 25V
< EARTH TERMINAL >			
* EP501	1-537-738-21	TERMINAL, EARTH	
* EP502	1-537-738-21	TERMINAL, EARTH	
< IC >			
IC551	6-702-457-01	IC NJM14558M-TE2 (EXCEPT AEP)	
< JACK >			
J551	1-794-702-11	JACK, HEADPHONE (PHONES)	

Ref. No.	Part No.	Description	Remark
J552	1-794-702-11	JACK, HEADPHONE (AUDIO IN)	
J553	1-770-226-11	JACK (LARGE TYPE) (MIC1) (EXCEPT AEP)	
J554	1-770-226-11	JACK (LARGE TYPE) (MIC2) (EXCEPT AEP)	
< COIL >			
L551	1-216-864-11	SHORT CHIP	0 (EXCEPT AEP)
L551	1-469-152-11	FERRITE, EMI (SMD) (2012) (AEP)	
L552	1-216-864-11	SHORT CHIP	0 (EXCEPT AEP)
L552	1-469-152-11	FERRITE, EMI (SMD) (2012) (AEP)	
L553	1-469-152-11	FERRITE, EMI (SMD) (2012) (EXCEPT AEP)	
< TRANSISTOR >			
Q551	8-729-048-99	TRANSISTOR	2SK2541-T (EXCEPT AEP)
Q552	8-729-120-28	TRANSISTOR	2SC1623-L5L6 (EXCEPT AEP)
< RESISTOR >			
R551	1-259-272-91	CARBON	47 5% 1/2W
R552	1-259-272-91	CARBON	47 5% 1/2W
R553	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R554	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R555	1-216-829-11	METAL CHIP	4.7K 5% 1/10W (EXCEPT AEP)
R556	1-216-825-11	METAL CHIP	2.2K 5% 1/10W (EXCEPT AEP)
R557	1-216-829-11	METAL CHIP	4.7K 5% 1/10W (EXCEPT AEP)
R558	1-216-825-11	METAL CHIP	2.2K 5% 1/10W (EXCEPT AEP)
R559	1-216-845-11	METAL CHIP	100K 5% 1/10W (EXCEPT AEP)
R560	1-216-825-11	METAL CHIP	2.2K 5% 1/10W (EXCEPT AEP)
R561	1-216-849-11	METAL CHIP	220K 5% 1/10W (EXCEPT AEP)
R562	1-216-841-11	METAL CHIP	47K 5% 1/10W (EXCEPT AEP)
R563	1-216-841-11	METAL CHIP	47K 5% 1/10W (EXCEPT AEP)
R564	1-216-849-11	METAL CHIP	220K 5% 1/10W (EXCEPT AEP)
R565	1-216-825-11	METAL CHIP	2.2K 5% 1/10W (EXCEPT AEP)
R566	1-216-829-11	METAL CHIP	4.7K 5% 1/10W (EXCEPT AEP)
R567	1-216-829-11	METAL CHIP	4.7K 5% 1/10W (EXCEPT AEP)
R568	1-216-845-11	METAL CHIP	100K 5% 1/10W (EXCEPT AEP)
R569	1-216-841-11	METAL CHIP	47K 5% 1/10W (EXCEPT AEP)
R570	1-216-853-11	METAL CHIP	470K 5% 1/10W (EXCEPT AEP)
R571	1-216-857-11	METAL CHIP	1M 5% 1/10W (EXCEPT AEP)
R572	1-216-809-11	METAL CHIP	100 5% 1/10W (EXCEPT AEP)
R575	1-216-837-11	METAL CHIP	22K 5% 1/10W (EXCEPT AEP)
R576	1-216-837-11	METAL CHIP	22K 5% 1/10W (EXCEPT AEP)

DS-PAI/HP/MIC

DS-PANEL

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R580	1-216-813-11	METAL CHIP	220	5%	1/10W (EXCEPT AEP)	C638	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
		< VARIABLE RESISTOR >				C640	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
						C641	1-164-156-11	CERAMIC CHIP	0.1uF		25V
						C642	1-164-156-11	CERAMIC CHIP	0.1uF		25V
VR501	1-223-983-11	RES, VAR, CARBON		50K (MIC LEVEL) (EXCEPT AEP)		C643	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
*****						C644	1-164-156-11	CERAMIC CHIP	0.1uF		25V
	A-1101-341-A	DS-PANEL BOARD, COMPLETE (including DS-CONN BOARD)(JDS50: E51)				C645	1-162-919-11	CERAMIC CHIP	22PF	5%	50V (AEP, RU, AUS)
	A-1101-495-A	DS-PANEL BOARD, COMPLETE (including DS-CONN BOARD)(JDS50: RU)				C646	1-162-919-11	CERAMIC CHIP	22PF	5%	50V (AEP, RU, AUS)
	A-1101-497-A	DS-PANEL BOARD, COMPLETE (including DS-CONN BOARD)(JDS50: MX)				C647	1-162-919-11	CERAMIC CHIP	22PF	5%	50V (AEP, RU, AUS)
	A-1101-547-A	DS-PANEL BOARD, COMPLETE (including DS-CONN BOARD)(AEP)				C648	1-162-919-11	CERAMIC CHIP	22PF	5%	50V (AEP, RU, AUS)
	A-1101-554-A	DS-PANEL BOARD, COMPLETE (including DS-CONN BOARD)(JDS20: RU)				C649	1-162-919-11	CERAMIC CHIP	22PF	5%	50V (AEP, RU, AUS)
	A-1101-560-A	DS-PANEL BOARD, COMPLETE (including DS-CONN BOARD)(AUS)				C650	1-126-965-11	ELECT	22uF	20%	50V
	A-1101-564-A	DS-PANEL BOARD, COMPLETE (including DS-CONN BOARD)(JDS20: E51)				C651	1-126-964-11	ELECT	10uF	20%	50V
	A-1101-566-A	DS-PANEL BOARD, COMPLETE (including DS-CONN BOARD)(JDS20: MX)				C652	1-126-965-11	ELECT	22uF	20%	50V
		*****				C653	1-126-964-11	ELECT	10uF	20%	50V
	2-515-247-01	FL GUIDE				C656	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
		< CAPACITOR >				C657	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C600	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C658	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C601	1-126-916-11	ELECT	1000uF	20%	6.3V	C659	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C602	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C660	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C603	1-165-621-91	CERAMIC CHIP	0.1uF		50V	C662	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C604	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C663	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C605	1-126-933-11	ELECT	100uF	20%	16V	C664	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C606	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C665	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C607	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	C666	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C608	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	C667	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C609	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	C668	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C611	1-126-965-11	ELECT	22uF	20%	50V	C669	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C614	1-126-960-11	ELECT	1uF	20%	50V	C670	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C615	1-126-960-11	ELECT	1uF	20%	50V	C671	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C616	1-126-965-11	ELECT	22uF	20%	50V	C672	1-162-971-11	CERAMIC CHIP	0.001uF	10%	50V
C617	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C673	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C618	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	C674	1-162-971-11	CERAMIC CHIP	0.001uF	10%	50V
C619	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	C676	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C620	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	< CONNECTOR >					
C622	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	CN601	1-793-767-11	CONNECTOR, BOARD TO BOARD 30P			
C623	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	CN602	1-779-295-11	CONNECTOR, FFC (LIF (NON-ZIF)) 27P			
C624	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	CN604	1-784-735-11	CONNECTOR, FFC 13P			
C625	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	CN651	(Not supplied)	PIN, CONNECTOR (SMALL TYPE) 11P			
C626	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	CN699	1-784-731-11	CONNECTOR, FFC 9P			
C628	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	< DIODE >					
C629	1-164-156-11	CERAMIC CHIP	0.1uF		25V	D601	8-719-977-28	DIODE DTZ10B			
C630	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	D602	8-719-000-07	DIODE MC2836			
C631	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	D603	8-719-000-07	DIODE MC2836			
C632	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	D604	8-719-988-61	DIODE 1SS355TE-17			
C633	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	D605	8-719-988-61	DIODE 1SS355TE-17			
C634	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	D665	8-719-988-61	DIODE 1SS355TE-17			
C636	1-126-916-11	ELECT	1000uF	20%	6.3V	< EARTH TERMINAL >					
						* EP601	1-537-738-21	TERMINAL, EARTH			

CX-JDS20/JDS50

DS-PANEL

Ref. No.	Part No.	Description	Remark
< FLUORESCENT INDICATOR >			
FL601	1-519-820-11	INDICATOR TUBE, FLUORESCENT	
< IC >			
IC601	8-759-643-83	IC uPD16315GB-3BS	
IC602	6-600-446-01	IC RPM7240-H18 (R)	
IC603	8-759-713-61	IC PST3429UL	
IC604	6-805-527-01	IC M30302MCP-A04FPU0	
IC605	6-704-135-01	IC MM1614A	
< SHORT >			
JR601	1-216-864-11	SHORT CHIP	0
JR602	1-216-864-11	SHORT CHIP	0 (AEP)
JR604	1-216-864-11	SHORT CHIP	0 (JDS20)
< COIL >			
L602	1-469-152-11	FERRITE, EMI (SMD) (2012)	
L603	1-216-864-11	SHORT CHIP	0
L604	1-216-864-11	SHORT CHIP	0
L605	1-216-864-11	SHORT CHIP	0
L606	1-216-864-11	SHORT CHIP	0
L607	1-216-864-11	SHORT CHIP	0
L608	1-216-864-11	SHORT CHIP	0
L609	1-216-864-11	SHORT CHIP	0
L610	1-216-864-11	SHORT CHIP	0
L611	1-469-152-11	FERRITE, EMI (SMD) (2012)	
< LED >			
LED607	8-719-063-93	DIODE SLR325VC-N-T32 (STAND BY)	
LED608	6-500-641-01	DIODE SLI-325URC (i-Bass)	
< TRANSISTOR >			
Q604	1-801-806-11	TRANSISTOR	DTC144EKA
Q605	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q606	1-801-806-11	TRANSISTOR	DTC144EKA
Q607	1-801-806-11	TRANSISTOR	DTC144EKA
Q608	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q609	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q610	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q611	8-729-024-43	TRANSISTOR	2SA1365-T112-1EF
Q612	8-729-024-43	TRANSISTOR	2SA1365-T112-1EF
Q613	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q614	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q615	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q616	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q617	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q618	1-801-806-11	TRANSISTOR	DTC144EKA
Q619	8-729-600-22	TRANSISTOR	2SA1235-F
Q620	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q621	8-729-024-43	TRANSISTOR	2SA1365-T112-1EF
Q622	8-729-047-62	TRANSISTOR	2SC3440-T12-1F
Q623	8-729-024-43	TRANSISTOR	2SA1365-T112-1EF
Q624	8-729-047-62	TRANSISTOR	2SC3440-T12-1F
Q625	8-729-600-22	TRANSISTOR	2SA1235-F
Q626	8-729-040-76	TRANSISTOR	KTA1273-Y-AT
Q627	8-729-024-43	TRANSISTOR	2SA1365-T112-1EF
Q628	8-729-047-62	TRANSISTOR	2SC3440-T12-1F

Ref. No.	Part No.	Description	Remark
Q629	8-729-024-43	TRANSISTOR	2SA1365-T112-1EF
Q630	8-729-119-76	TRANSISTOR	2SA1175-HFE
Q631	8-729-047-62	TRANSISTOR	2SC3440-T12-1F
< RESISTOR >			
R594	1-216-864-11	SHORT CHIP	0 (AEP)
R595	1-216-841-11	METAL CHIP	47K 5% 1/10W (AEP)
R596	1-216-833-11	METAL CHIP	10K 5% 1/10W (AUS)
R596	1-216-841-11	METAL CHIP	47K 5% 1/10W (AEP)
R597	1-216-817-11	METAL CHIP	470 5% 1/10W (RU)
R597	1-216-833-11	METAL CHIP	10K 5% 1/10W (AEP, AUS)
R598	1-216-825-11	METAL CHIP	2.2K 5% 1/10W (RU)
R598	1-216-833-11	METAL CHIP	10K 5% 1/10W (AUS)
R599	1-216-833-11	METAL CHIP	10K 5% 1/10W (RU)
R599	1-216-841-11	METAL CHIP	47K 5% 1/10W (AUS)
R601	1-216-817-11	METAL CHIP	470 5% 1/10W
R602	1-216-845-11	METAL CHIP	100K 5% 1/10W
R603	1-216-849-11	METAL CHIP	220K 5% 1/10W
R604	1-216-845-11	METAL CHIP	100K 5% 1/10W
R605	1-216-853-11	METAL CHIP	470K 5% 1/10W
R606	1-216-833-11	METAL CHIP	10K 5% 1/10W
R607	1-216-845-11	METAL CHIP	100K 5% 1/10W
R608	1-219-570-11	METAL CHIP	10M 5% 1/10W
R609	1-216-833-11	METAL CHIP	10K 5% 1/10W
R610	1-216-833-11	METAL CHIP	10K 5% 1/10W
R611	1-216-809-11	METAL CHIP	100 5% 1/10W
R612	1-216-809-11	METAL CHIP	100 5% 1/10W
R613	1-216-809-11	METAL CHIP	100 5% 1/10W
R614	1-216-864-11	SHORT CHIP	0
R615	1-216-864-11	SHORT CHIP	0
R616	1-218-446-11	METAL CHIP	1 5% 1/10W
R617	1-216-821-11	METAL CHIP	1K 5% 1/10W
R618	1-216-809-11	METAL CHIP	100 5% 1/10W
R619	1-216-821-11	METAL CHIP	1K 5% 1/10W
R620	1-216-821-11	METAL CHIP	1K 5% 1/10W
R621	1-216-821-11	METAL CHIP	1K 5% 1/10W
R622	1-216-821-11	METAL CHIP	1K 5% 1/10W
R623	1-216-817-11	METAL CHIP	470 5% 1/10W
R624	1-216-817-11	METAL CHIP	470 5% 1/10W
R625	1-216-821-11	METAL CHIP	1K 5% 1/10W
R626	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R627	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R628	1-216-809-11	METAL CHIP	100 5% 1/10W
R629	1-216-821-11	METAL CHIP	1K 5% 1/10W
R630	1-216-809-11	METAL CHIP	100 5% 1/10W
R631	1-216-809-11	METAL CHIP	100 5% 1/10W
R632	1-216-833-11	METAL CHIP	10K 5% 1/10W
R633	1-216-833-11	METAL CHIP	10K 5% 1/10W (JDS20)
R633	1-216-837-11	METAL CHIP	22K 5% 1/10W (JDS50)

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
R634	1-216-809-11	METAL CHIP	100	5%	1/10W		R690	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R635	1-216-821-11	METAL CHIP	1K	5%	1/10W		R691	1-216-857-11	METAL CHIP	1M	5%	1/10W	
R636	1-216-833-11	METAL CHIP	10K	5%	1/10W		R692	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R637	1-216-809-11	METAL CHIP	100	5%	1/10W		R693	1-216-809-11	METAL CHIP	100	5%	1/10W	
R638	1-216-821-11	METAL CHIP	1K	5%	1/10W		R694	1-216-853-11	METAL CHIP	470K	5%	1/10W	
R639	1-216-821-11	METAL CHIP	1K	5%	1/10W								
R640	1-216-821-11	METAL CHIP	1K	5%	1/10W		R695	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R641	1-216-833-11	METAL CHIP	10K	5%	1/10W		R696	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R642	1-216-809-11	METAL CHIP	100	5%	1/10W		R701	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R643	1-216-809-11	METAL CHIP	100	5%	1/10W		R702	1-216-817-11	METAL CHIP	470	5%	1/10W	
R644	1-216-821-11	METAL CHIP	1K	5%	1/10W		R703	1-216-817-11	METAL CHIP	470	5%	1/10W	
R645	1-216-841-11	METAL CHIP	47K	5%	1/10W		R704	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R646	1-216-821-11	METAL CHIP	1K	5%	1/10W		R705	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R647	1-216-841-11	METAL CHIP	47K	5%	1/10W		R706	1-216-817-11	METAL CHIP	470	5%	1/10W	
R648	1-216-809-11	METAL CHIP	100	5%	1/10W		R707	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R649	1-216-845-11	METAL CHIP	100K	5%	1/10W		R708	1-216-817-11	METAL CHIP	470	5%	1/10W	
R650	1-216-833-11	METAL CHIP	10K	5%	1/10W	(JDS20)	R709	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R651	1-216-821-11	METAL CHIP	1K	5%	1/10W		R710	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R652	1-216-817-11	METAL CHIP	470	5%	1/10W		R712	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R653	1-216-817-11	METAL CHIP	470	5%	1/10W		R713	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R654	1-216-821-11	METAL CHIP	1K	5%	1/10W		R715	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R655	1-216-821-11	METAL CHIP	1K	5%	1/10W		R716	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R656	1-216-821-11	METAL CHIP	1K	5%	1/10W	(JDS50)	R717	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R657	1-216-821-11	METAL CHIP	1K	5%	1/10W		R721	1-216-817-11	METAL CHIP	470	5%	1/10W	
R658	1-216-821-11	METAL CHIP	1K	5%	1/10W		R722	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R659	1-216-821-11	METAL CHIP	1K	5%	1/10W		R723	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R660	1-216-821-11	METAL CHIP	1K	5%	1/10W		R724	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R661	1-216-837-11	METAL CHIP	22K	5%	1/10W		R725	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R662	1-216-821-11	METAL CHIP	1K	5%	1/10W		R726	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R663	1-216-821-11	METAL CHIP	1K	5%	1/10W		R727	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R664	1-216-817-11	METAL CHIP	470	5%	1/10W		R728	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R665	1-216-841-11	METAL CHIP	47K	5%	1/10W		R729	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R666	1-216-817-11	METAL CHIP	470	5%	1/10W		R730	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R667	1-216-841-11	METAL CHIP	47K	5%	1/10W		R731	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R668	1-216-817-11	METAL CHIP	470	5%	1/10W		R732	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R669	1-216-841-11	METAL CHIP	47K	5%	1/10W		R733	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R670	1-216-817-11	METAL CHIP	470	5%	1/10W		R734	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R671	1-216-841-11	METAL CHIP	47K	5%	1/10W		R735	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R672	1-216-789-11	METAL CHIP	2.2	5%	1/10W		R736	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R673	1-216-789-11	METAL CHIP	2.2	5%	1/10W		R737	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R674	1-216-845-11	METAL CHIP	100K	5%	1/10W		R738	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R675	1-216-864-11	SHORT CHIP	0				R739	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R676	1-216-821-11	METAL CHIP	1K	5%	1/10W		R740	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R677	1-216-821-11	METAL CHIP	1K	5%	1/10W		R741	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R678	1-216-821-11	METAL CHIP	1K	5%	1/10W		R742	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R679	1-216-821-11	METAL CHIP	1K	5%	1/10W		R743	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R680	1-216-864-11	SHORT CHIP	0				R744	1-216-849-11	METAL CHIP	220K	5%	1/10W	
R681	1-216-821-11	METAL CHIP	1K	5%	1/10W		R745	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R682	1-216-837-11	METAL CHIP	22K	5%	1/10W		R757	1-216-817-11	METAL CHIP	470	5%	1/10W	
R683	1-216-837-11	METAL CHIP	22K	5%	1/10W		R758	1-216-809-11	METAL CHIP	100	5%	1/10W	
R684	1-216-837-11	METAL CHIP	22K	5%	1/10W		R759	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R685	1-216-837-11	METAL CHIP	22K	5%	1/10W		R760	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R686	1-216-837-11	METAL CHIP	22K	5%	1/10W		R761	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R687	1-216-837-11	METAL CHIP	22K	5%	1/10W		R762	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R688	1-216-861-11	METAL CHIP	2.2M	5%	1/10W		R763	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R689	1-216-821-11	METAL CHIP	1K	5%	1/10W		R764	1-216-833-11	METAL CHIP	10K	5%	1/10W	
							R765	1-216-837-11	METAL CHIP	22K	5%	1/10W	
							R766	1-216-833-11	METAL CHIP	10K	5%	1/10W	

CX-JDS20/JDS50

DS-PANEL

DS-POWER

Ref. No.	Part No.	Description	Remark		
R767	1-216-817-11	METAL CHIP	470	5%	1/10W
R768	1-216-809-11	METAL CHIP	100	5%	1/10W
R769	1-216-821-11	METAL CHIP	1K	5%	1/10W
R770	1-216-821-11	METAL CHIP	1K	5%	1/10W
R771	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R772	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R773	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R774	1-216-833-11	METAL CHIP	10K	5%	1/10W
R775	1-216-837-11	METAL CHIP	22K	5%	1/10W
R776	1-216-841-11	METAL CHIP	47K	5%	1/10W
R777	1-216-837-11	METAL CHIP	22K	5%	1/10W
R778	1-216-837-11	METAL CHIP	22K	5%	1/10W
R779	1-216-833-11	METAL CHIP	10K	5%	1/10W
R780	1-216-837-11	METAL CHIP	22K	5%	1/10W
R781	1-216-837-11	METAL CHIP	22K	5%	1/10W
R782	1-216-833-11	METAL CHIP	10K	5%	1/10W
R786	1-216-833-11	METAL CHIP	10K	5%	1/10W
R787	1-216-817-11	METAL CHIP	470	5%	1/10W
R788	1-216-809-11	METAL CHIP	100	5%	1/10W
R789	1-216-821-11	METAL CHIP	1K	5%	1/10W
R790	1-216-821-11	METAL CHIP	1K	5%	1/10W
R791	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R792	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R793	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R794	1-216-833-11	METAL CHIP	10K	5%	1/10W
R795	1-216-837-11	METAL CHIP	22K	5%	1/10W
R796	1-216-837-11	METAL CHIP	22K	5%	1/10W
R797	1-216-817-11	METAL CHIP	470	5%	1/10W
R801	1-216-837-11	METAL CHIP	22K	5%	1/10W
R802	1-216-837-11	METAL CHIP	22K	5%	1/10W
R803	1-216-837-11	METAL CHIP	22K	5%	1/10W
R804	1-216-833-11	METAL CHIP	10K	5%	1/10W
R805	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R806	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
< SWITCH >					
S601	1-771-410-21	SWITCH, TACTILE (I/⏻)			
S602	1-771-410-21	SWITCH, TACTILE (DISC 1)			
S603	1-771-410-21	SWITCH, TACTILE (DISC 2)			
S604	1-771-410-21	SWITCH, TACTILE (DISC 3)			
S605	1-771-410-21	SWITCH, TACTILE (DISC SKIP/EX-CHANGE)			
S606	1-771-410-21	SWITCH, TACTILE (JDS20:▶/JDS50:◀▶)			
S607	1-771-410-21	SWITCH, TACTILE (II)			
S608	1-771-410-21	SWITCH, TACTILE (▶▶▶▶I/TUNING +)			
S609	1-771-410-21	SWITCH, TACTILE (REC PAUSE/START)			
S611	1-771-410-21	SWITCH, TACTILE (DISPLAY)			
S612	1-771-410-21	SWITCH, TACTILE (BASS -)			
S613	1-771-410-21	SWITCH, TACTILE (BASS +)			
S614	1-771-410-21	SWITCH, TACTILE (MIDDLE -)			
S615	1-771-410-21	SWITCH, TACTILE (MIDDLE +)			
S616	1-771-410-21	SWITCH, TACTILE (TREBLE -)			
S617	1-771-410-21	SWITCH, TACTILE (TREBLE +)			
S618	1-771-410-21	SWITCH, TACTILE (i-Bass)			
S619	1-771-410-21	SWITCH, TACTILE (⌂)			
S621	1-771-410-21	SWITCH, TACTILE (■)			
S622	1-771-410-21	SWITCH, TACTILE (I◀◀◀◀/TUNING -)			
S623	1-771-410-21	SWITCH, TACTILE (CD SYNC)			

Ref. No.	Part No.	Description	Remark		
S624	1-771-410-21	SWITCH, TACTILE (TUNER/BAND)			
S625	1-771-410-21	SWITCH, TACTILE (EQ)			
S626	1-771-410-21	SWITCH, TACTILE (REP/FM MODE)			
S627	1-771-410-21	SWITCH, TACTILE (ENTER)			
S628	1-771-410-21	SWITCH, TACTILE (PLAY MODE/TUNING MODE)			
S629	1-771-410-21	SWITCH, TACTILE (FUNCTION)			
S651	1-786-418-11	SWITCH, ROTARY (ENCODER) (← ↻ →)			
< VIBRATOR >					
X601	1-579-463-11	VIBRATOR, CRYSTAL (32.768kHz)			
X602	1-795-482-11	VIBRATOR, CERAMIC (16MHz)			

DS-POWER BOARD					

< CAPACITOR >					
C004	1-126-935-11	ELECT	470uF	20%	16V
C005	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C011	1-126-957-11	ELECT	0.22uF	20%	50V
< CONNECTOR >					
CN001	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P (MX, AUS)			
< DIODE >					
D001	8-719-000-07	DIODE MC2836			
D002	6-500-335-01	DIODE MC2838-T112-1 (JDS20)			
D002	8-719-000-08	DIODE MC2838 (JDS50)			
D003	6-500-335-01	DIODE MC2838-T112-1 (JDS20)			
D003	8-719-000-08	DIODE MC2838 (JDS50)			
< TRANSFORMER >					
△ PT003	1-439-735-11	TRANSFORMER, POWER (AEP, RU)			
△ PT003	1-439-944-11	TRANSFORMER, POWER (MX)			
△ PT004	1-439-736-11	TRANSFORMER, POWER (E51, AUS)			
< RESISTOR >					
R011	1-216-821-11	METAL CHIP	1K	5%	1/10W
R012	1-216-821-11	METAL CHIP	1K	5%	1/10W
R013	1-216-837-11	METAL CHIP	22K	5%	1/10W
R014	1-216-809-11	METAL CHIP	100	5%	1/10W
< RELAY >					
△ RY001	1-755-276-11	RELAY, POWER (AEP, MX, RU)			
△ RY002	1-755-496-11	RELAY (E51, AUS)			
< SWITCH >					
△ S001	1-786-408-11	SELECTOR, VOLTAGE (SWS-2301) (VOLTAGE SELECTOR)(E51)			
< WIRE HOLDER >					
WH001	1-816-818-11	HOLDER, WIRE 5P			
WH002	1-817-362-11	HOLDER, WIRE 7P			

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		DS-VOL BOARD *****		△ PT002	1-443-698-11	TRANSFORMER, POWER (JDS50: E51)	
				△ PT002	1-443-702-11	TRANSFORMER, POWER (JDS20: E51, AUS)	
		< LED >					
LED601	6-500-641-01	DIODE SLI-325URC					
LED602	6-500-641-01	DIODE SLI-325URC					
LED603	6-500-641-01	DIODE SLI-325URC					
LED604	6-500-641-01	DIODE SLI-325URC					
LED605	6-500-641-01	DIODE SLI-325URC					
LED606	6-500-641-01	DIODE SLI-325URC					
		< RESISTOR >					
R718	1-216-805-11	METAL CHIP 47 5% 1/10W					
R719	1-216-817-11	METAL CHIP 470 5% 1/10W					
R720	1-216-817-11	METAL CHIP 470 5% 1/10W					
R746	1-216-841-11	METAL CHIP 47K 5% 1/10W					
R747	1-216-829-11	METAL CHIP 4.7K 5% 1/10W					
R748	1-216-833-11	METAL CHIP 10K 5% 1/10W					
R749	1-216-821-11	METAL CHIP 1K 5% 1/10W					
R750	1-216-825-11	METAL CHIP 2.2K 5% 1/10W					
R751	1-216-849-11	METAL CHIP 220K 5% 1/10W					
R752	1-216-841-11	METAL CHIP 47K 5% 1/10W					
R753	1-216-825-11	METAL CHIP 2.2K 5% 1/10W					
R754	1-216-817-11	METAL CHIP 470 5% 1/10W					
R755	1-216-805-11	METAL CHIP 47 5% 1/10W					
R756	1-216-805-11	METAL CHIP 47 5% 1/10W					
R783	1-216-817-11	METAL CHIP 470 5% 1/10W					
R784	1-216-805-11	METAL CHIP 47 5% 1/10W					
R785	1-216-805-11	METAL CHIP 47 5% 1/10W					
R798	1-216-805-11	METAL CHIP 47 5% 1/10W					
R799	1-216-817-11	METAL CHIP 470 5% 1/10W					
R800	1-216-817-11	METAL CHIP 470 5% 1/10W					
		< SWITCH >					
S652	1-786-417-11	SW, RTRY RE012307PVB30F (VOLUME)					

		MISCELLANEOUS *****					
8	1-693-626-11	TUNER (FM/AM) (AEP)					
8	1-693-628-11	TUNER (FM/AM) (MX, E51, AUS)					
8	1-693-629-11	TUNER (FM/AM) (RU)					
9	1-787-344-11	FAN, DC					
67	1-830-653-11	WIRE (FLAT TYPE) (27 CORE)					
74	1-796-351-51	MECHANISM, SIGNAL CASSETTE (CMAL1Z240A) (JDS50)					
74	1-796-352-41	DECK, MECHANICAL (CMAL5Z220A) (JDS20)					
△ 106	1-775-790-71	CORD, POWER (AUS)					
△ 106	1-827-226-31	CORD, POWER (MX)					
△ 106	1-830-384-11	CORD, POWER (AEP, E51, RU)					
△ 157	8-820-244-01	OPTICAL PICK-UP KSM-215DCP/C2NP					
158	1-827-992-11	WIRE (FLAT TYPE) (16 CORE)					
161	1-775-251-11	WIRE (FLAT TYPE)(27 CORE)					
201	1-797-193-11	MECH, CD (BU-F1BD81C)					
△ PT001	1-443-699-11	TRANSFORMER, POWER (JDS50: RU)					
△ PT001	1-443-703-11	TRANSFORMER, POWER (JDS20: AEP, RU)					
△ PT001	1-443-721-11	TRANSFORMER, POWER (JDS50: MX)					
△ PT001	1-443-723-11	TRANSFORMER, POWER (JDS20: MX)					

REVISION HISTORY

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