

PHC-Z10

SERVICE MANUAL

Ver 1.1 2001.12

AEP Model
UK Model



CD Section	Model Name Using Similar Mechanism	NEW
	CD Mechanism Type	KSM-213CCM
	Optical Pick-up Name	KSS-213C
TC Section	Model Name Using Similar Mechanism	NEW
	Tape Transport Mechanism Type	MF-PHCZ10T

SPECIFICATIONS

CD player section

- System
 - Compact disc digital audio system
- Laser diode properties
 - Material: GaAlAs
 - Wave length: 780 nm
 - Emission duration: Continuous
 - Laser output: Less than 44.6 μ W
 - (This output is the value measured at a distance of about 200 mm from the objective lens surface on the optical pick-up block with 7 mm aperture.)
- Spindle speed
 - 200 r/min (rpm) to 500 r/min (rpm) (CLV)
- Number of channels
 - 2
- Frequency response
 - 20 - 20 000 Hz +1/-2 dB
- Wow and flutter
 - Below measurable limit

Radio section

- Frequency range
 - FM: 87.5 - 108 MHz
 - AM: 531 - 1 602 kHz
- IF
 - FM: 10.7 MHz
 - AM: 450 kHz
- Aerial
 - FM: Lead aerial
 - AM: Loop aerial

Cassette-corder section

- Recording system
 - 4-track 2 channel stereo
- Fast winding time
 - Approx. 100 s (sec.) with Sony cassette C-60
- Frequency response
 - TYPE I (normal): 100 - 10 000 Hz

— Continued on next page —

PERSONAL COMPONENT SYSTEM

9-929-256-32
2001L1600-1
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Sony Corporation
Home Audio Company
Published by Sony Engineering Corporation

SONY®

General

Speaker

Woofer: 13 cm (5 1/8 inches) dia.,
Tweeter: 5 cm (2 inches) dia.,
6 Ω, cone type (2)

Inputs

LINE IN jacks (2 phono jacks):
Sensitivity 220 mV

Outputs

Headphones jack (stereo minijack):
For 8 - 32 Ω impedance headphones
Speaker terminals: For supplied 6 Ω
impedance speaker

Maximum power output

100 W

Power requirements

For personal component system:
230 V AC, 50 Hz
For remote control: 3 V DC, 2 R6 (size AA)
batteries

Power consumption

AC 110 W

Dimensions

Player: approx. 285 × 322 × 408 mm (w/h/d)
(11 1/4 × 12 3/4 × 16 1/8 inches)

Speaker: approx. 200 × 316 × 230 mm (w/h/d)
(7 7/8 × 12 1/2 × 9 1/8 inches)

Mass

Player: approx. 7.7 kg (16 lb. 16 oz.)
Speaker: approx. 2.95 kg (6 lb. 8 oz.)

Supplied accessories

Remote control (1)
FM lead aerial (1)
AM loop aerial (1)

Design and specifications are subject to change without notice.

CAUTION

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

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.

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.

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

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic breakdown 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.

SAFETY-RELATED COMPONENT WARNING!!

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

SERVICE NOTE

When the CD block is going to be inspected, be sure to connect beforehand the jig (J-2501-020-A) between the CD board (CNP706) and the DISPLAY board (CNP802).

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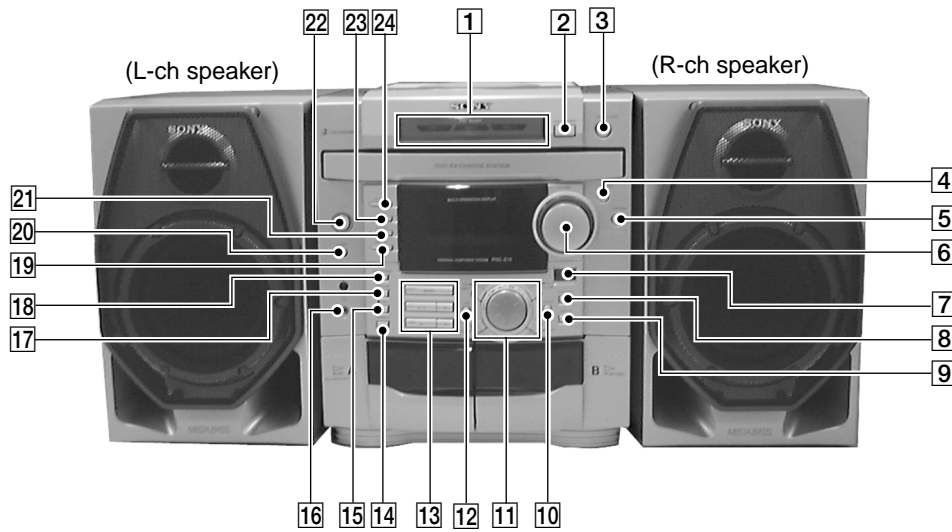
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7. ELECTRICAL PARTS LIST

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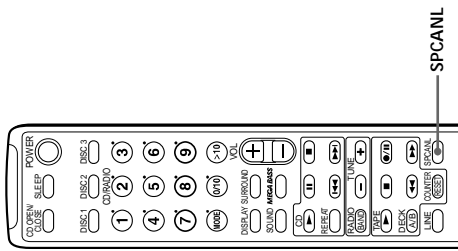
SECTION 1 GENERAL



- | | |
|---|--|
| 1 DISC SELECT indicator | 13 RADIO/CD ■ , ► /TAPE ■ , ► button |
| 2 DISC CHANGE button | 14 DUBBING button |
| 3 OPEN/CLOSE button | 15 ●/ button |
| 4 SOUND button | 16 Ⓜ jack |
| 5 SURROUND button | 17 DECK A/B button |
| 6 VOLUME knob | 18 COUNTER RESET button |
| 7 MEGA BASS button | 19 DISPLAY button |
| 8 MODE button | 20 SLEEP button |
| 9 REPEAT button | 21 CLOCK button |
| 10 ENTER button | 22 POWER button |
| 11 MULTI JOG dial/TUNE +, -,
TAPE ◀◀, ▶▶ button | 23 TIMER button |
| 12 LINE button | 24 STANDBY button |

Displaying the spectrum analyzer

You can display 3 different patterns of the audio signal you are listening to by using the remote.



Displaying the audio signal pattern

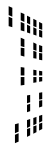
Press SPCANL to display the audio signal pattern you are listening to.

Each time the button is pressed, the display changes.

Choose To display

Peak hold

input level of each band and at the same time the highest level of each band for a certain moment



Normal

input level of each band



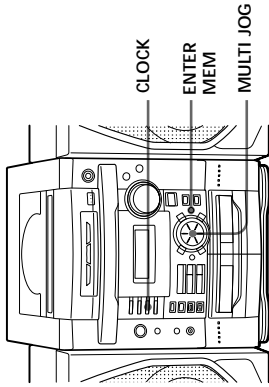
Peak

the highest level of each band



Setting the clock

"-:-:" indication appears in the display until you set the clock.



Tip
The time display system:
12-hour system
AM12:00 = midnight
PM12:00 = noon

Before you begin, hook up the system (see pages 31 - 34).

1 Press and hold CLOCK until the hour digit flashes.

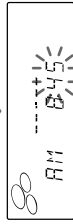


2 Set the clock.

① Turn MULTI JOG to set the hour and press ENTER/MEM.



② Turn MULTI JOG to set the minutes.

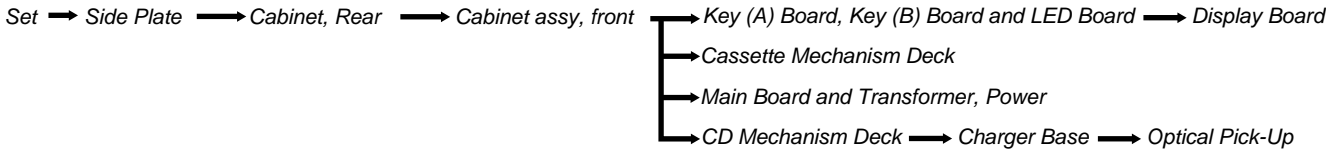


3 Press ENTER/MEM.
The clock starts from 00 seconds.

This section is extracted from instruction manual.

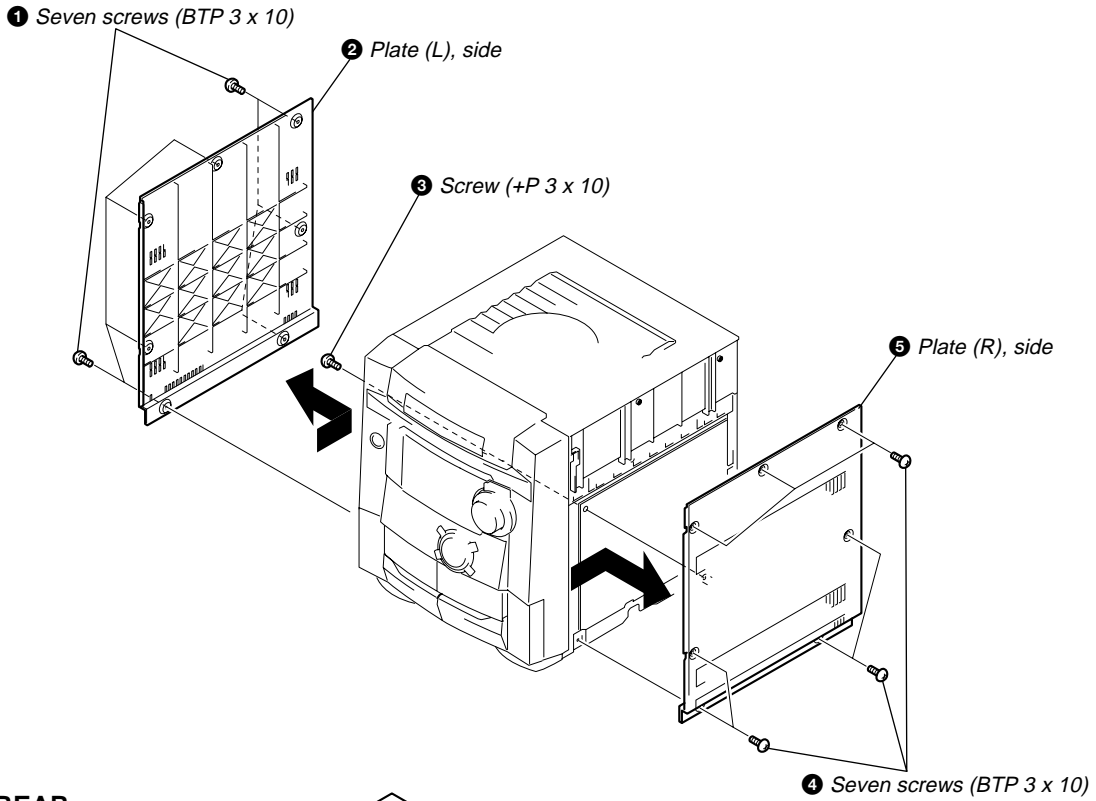
SECTION 2 DISASSEMBLY

• The equipment can be removed using the following procedure.

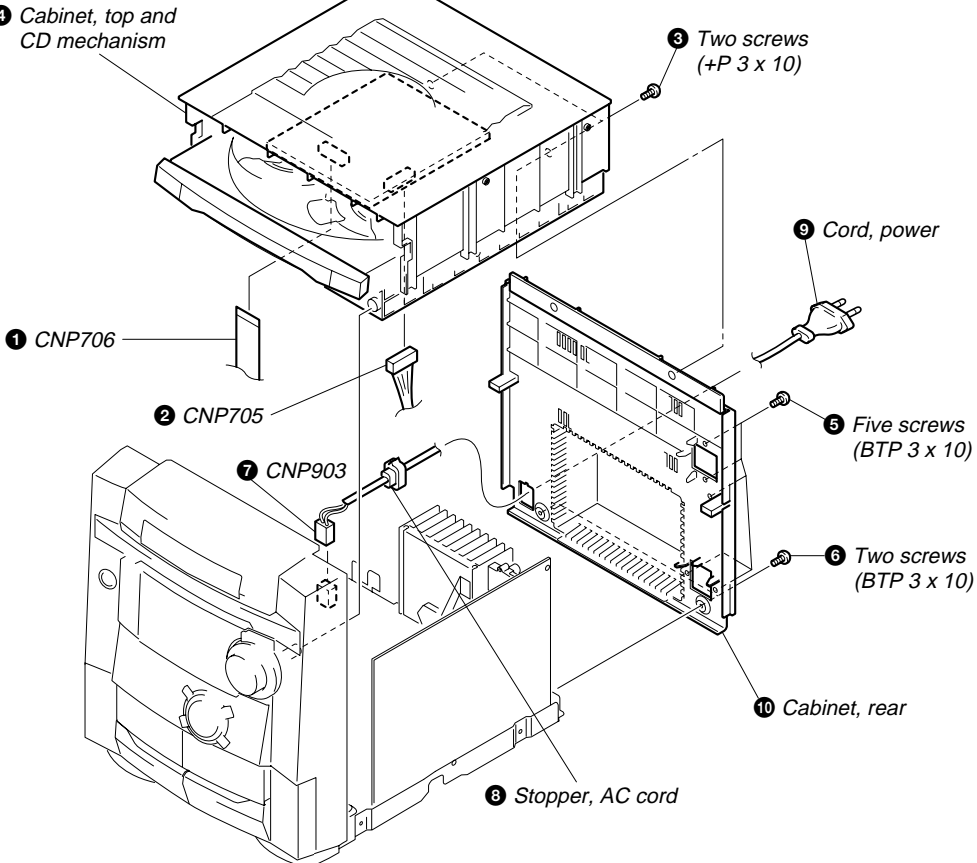


Note : Follow the disassembly procedure in the numerical order given.

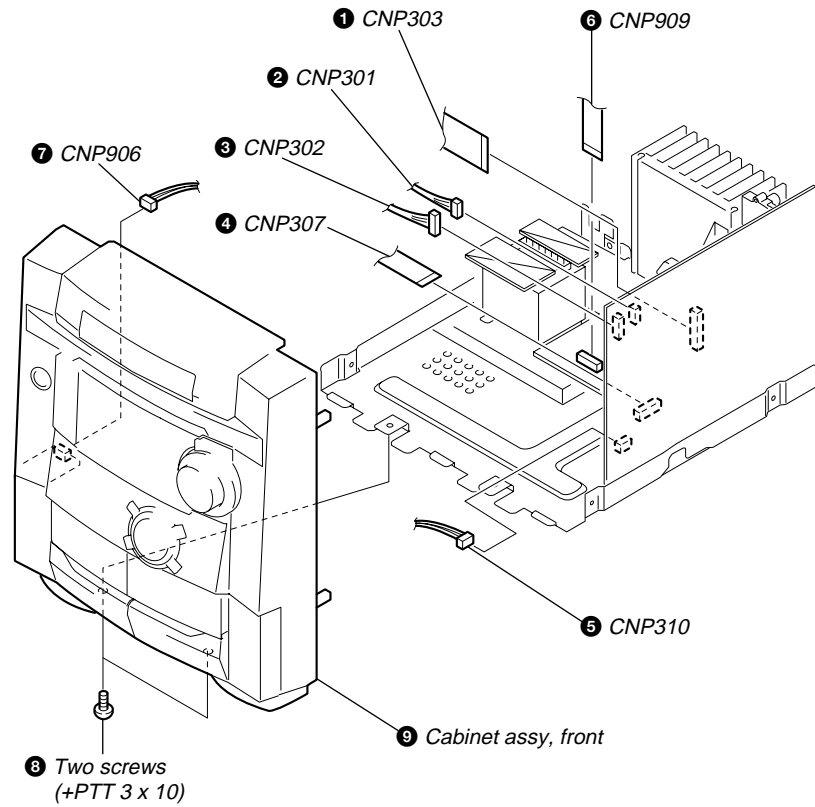
2-1. SIDE PLATE



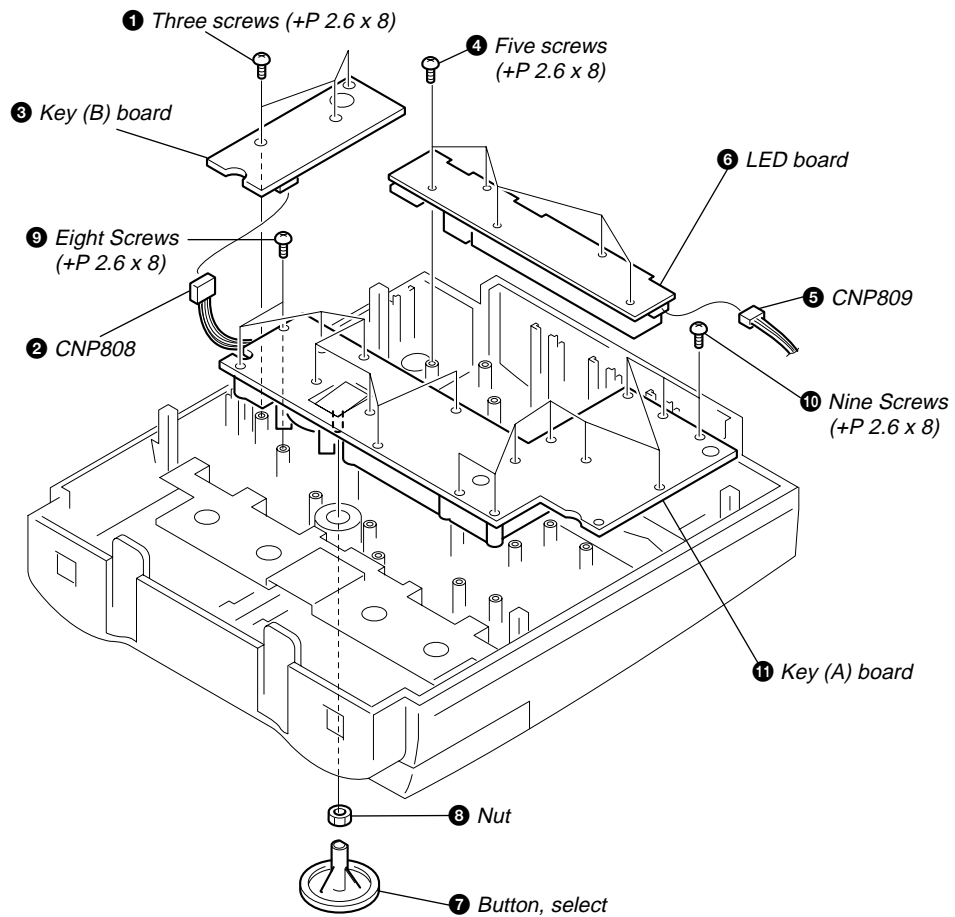
2-2. CABINET, REAR



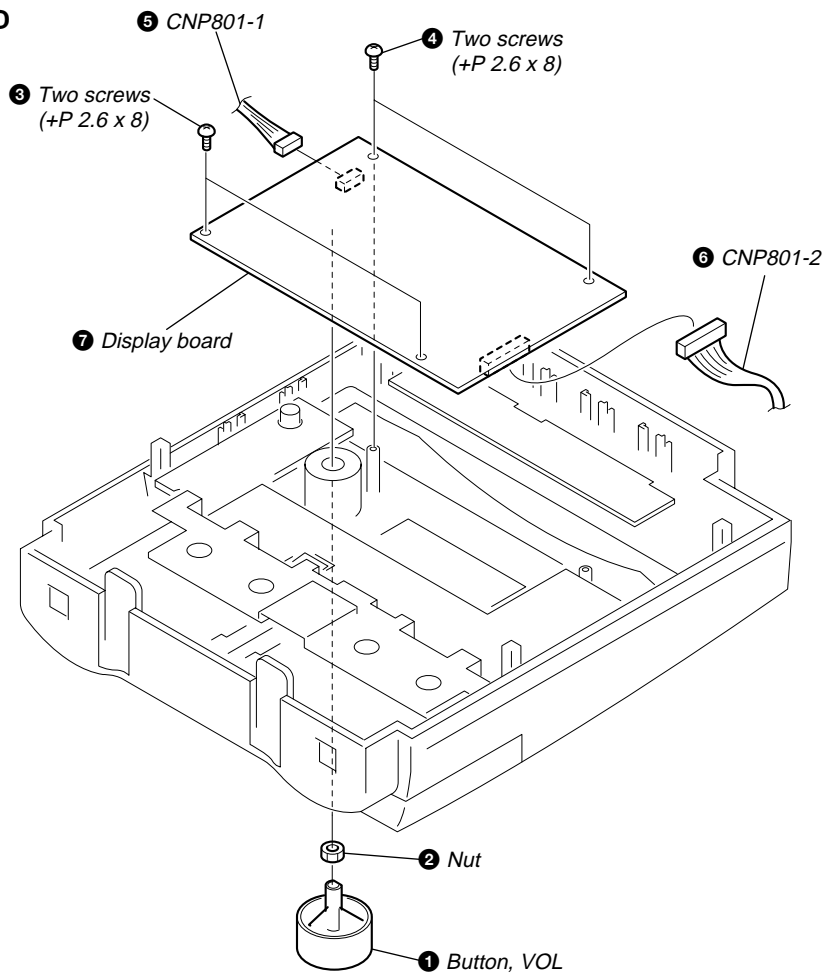
2-3. CABINET ASSY, FRONT



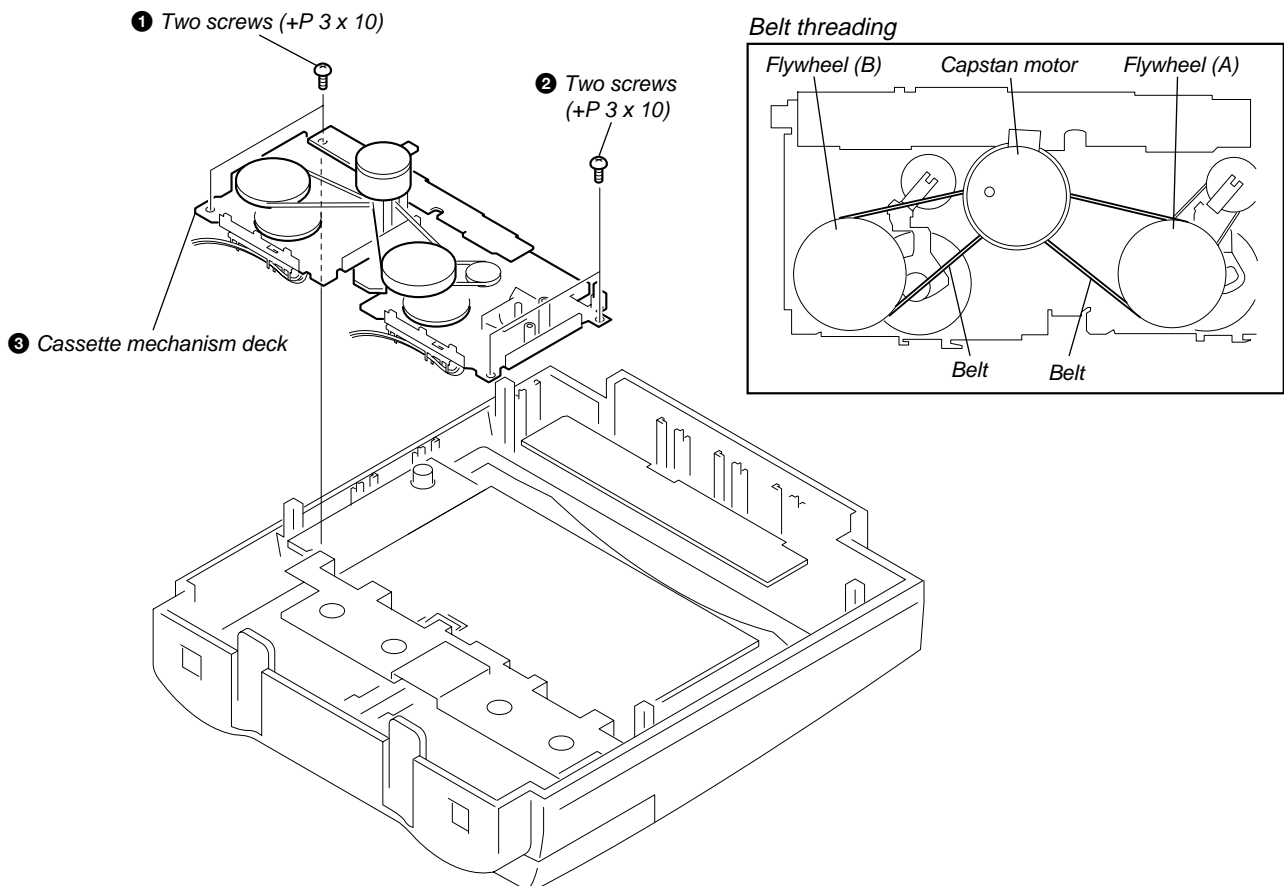
2-4. KEY (A) BOARD, KEY (B) BOARD AND LED BOARD



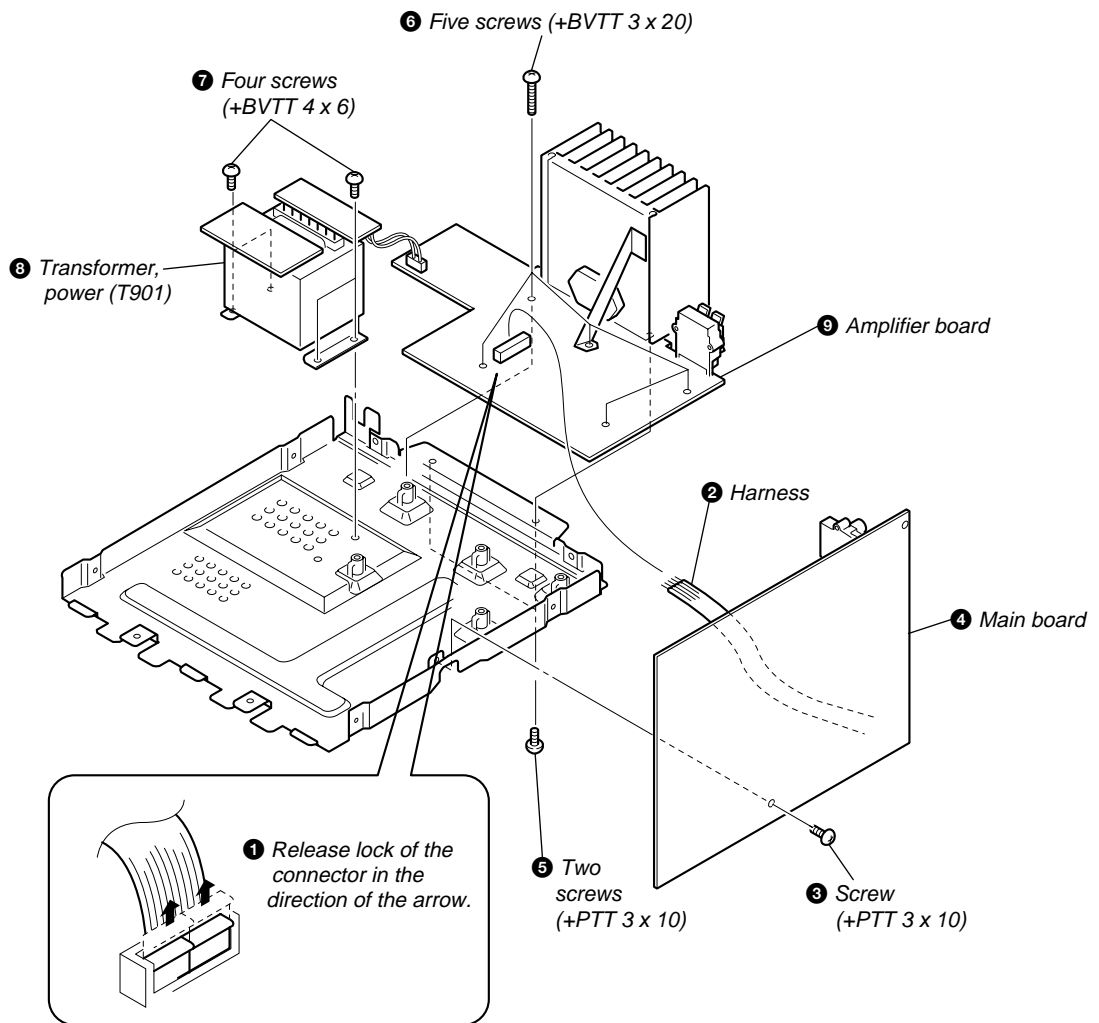
2-5. DISPLAY BOARD



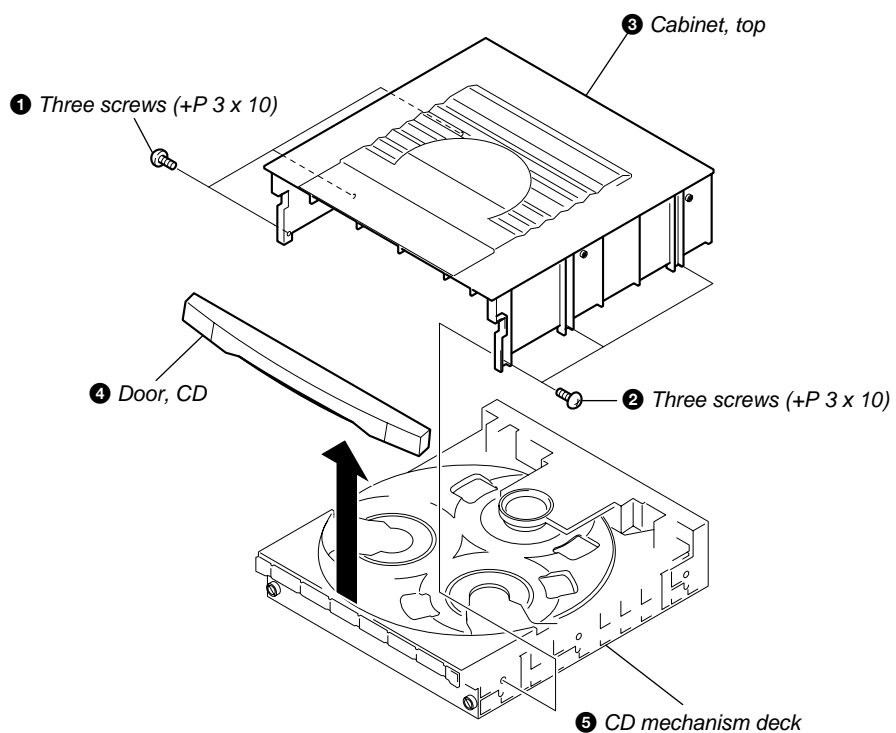
2-6. CASSETTE MECHANISM DECK



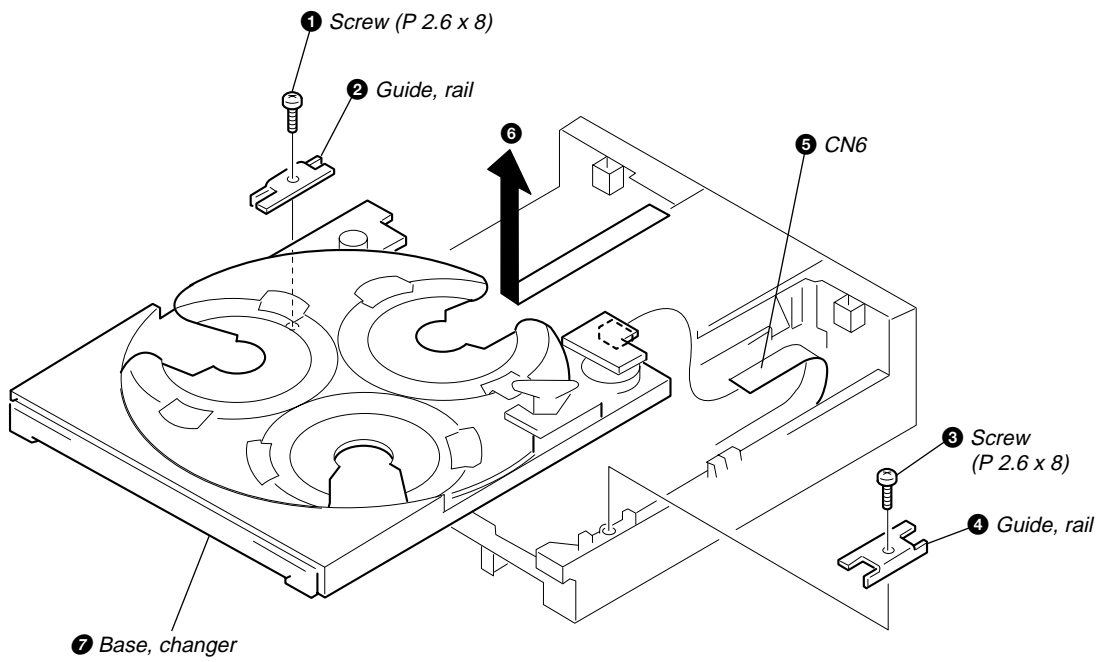
2-7. MAIN BOARD AND TRANSFORMER, POWER



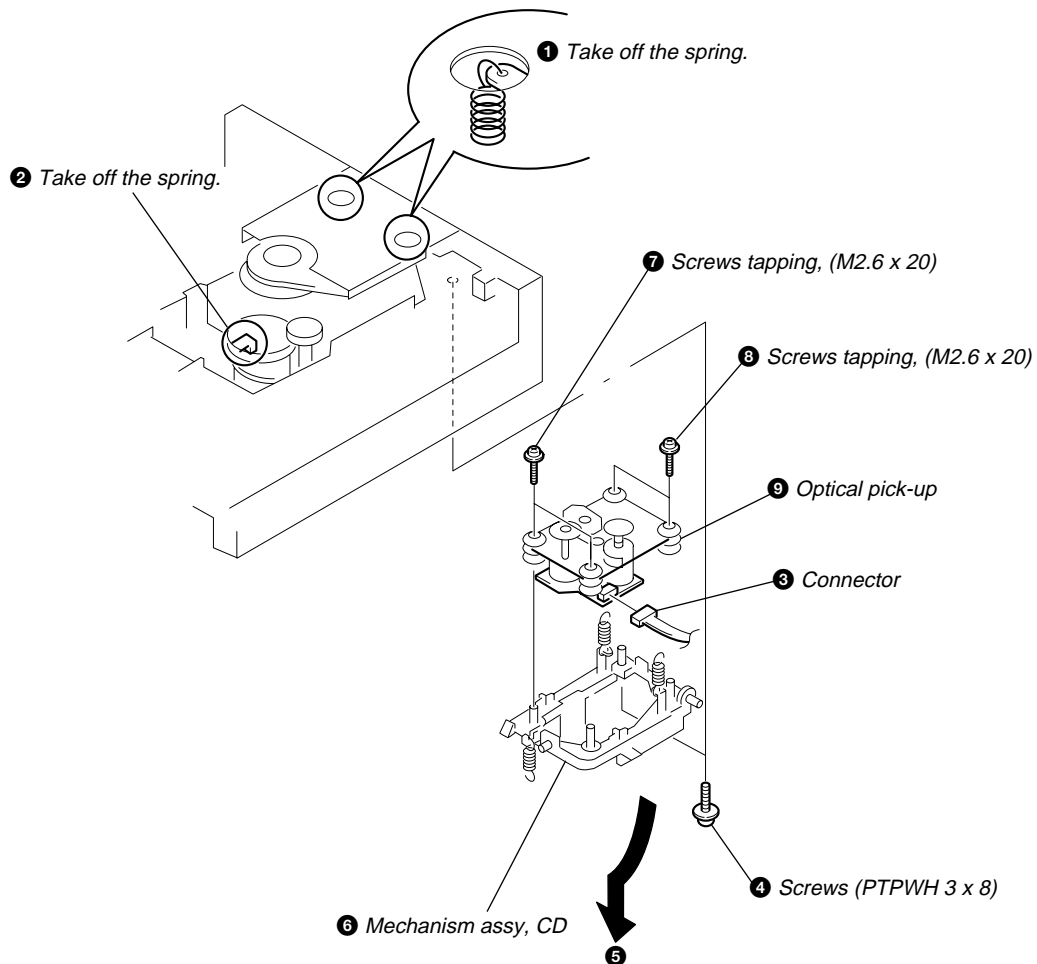
2-8. CD MECHANISM DECK



2-9. BASE, CHANGER



2-10. OPTICAL PICK-UP



SECTION 3 MECHANICAL ADJUSTMENTS

PRECAUTION

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

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

Torque Measurement DECK A DECK B

Mode	Torque meter	Meter reading
Forward	CQ-102C	2.21 – 5.39 mN • m (22.5 to 55 g • cm) (0.31 to 0.76 oz • inch)
Forward back tension	CQ-102C	0.20 – 0.49 mN • m (2 to 5 g • cm) (0.03 to 0.07 oz • inch)
Fast Forward and Rewind	CQ-201B	5.88 – 11.77 mN • m (60 to 120 g • cm) (0.83 to 1.67 oz • inch)

Tape Tension Measurement DECK A DECK B

Mode	Tension meter	Meter reading
Forward	CQ-403A	more than 150 g (more than 5.29 oz)

SECTION 4 ELECTRICAL ADJUSTMENTS

TAPE SECTION

0 dB = 0.775 V

Standard Output Level

Output terminal	SP OUT	PHONES OUT
load impedance	6 Ω	32 Ω
output signal level	0.775 V (0 dB)	0.25 V (–10 dB)

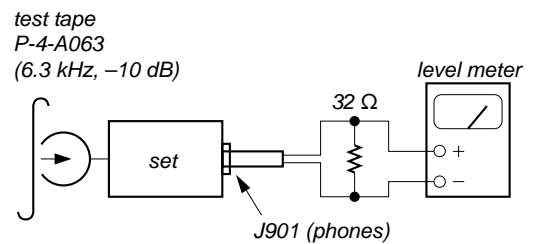
Test Tape

Tape	Signal	Used for
WS-48B	3 kHz, 0 dB	tape speed adjustment
P-4-A063	6.3 kHz, –10 dB	head azimuth adjustment

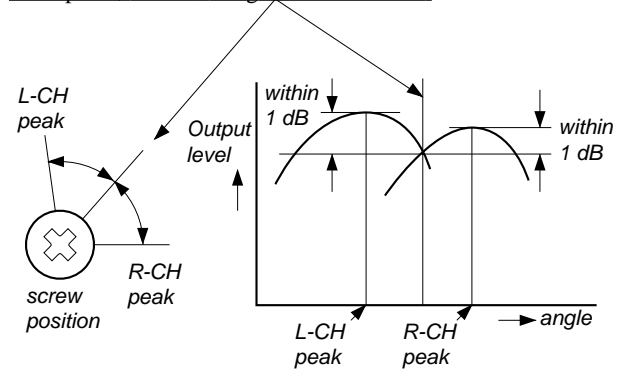
REC/PB Head Azimuth Adjustment DECK A DECK B

Procedure:

1. Mode: playback



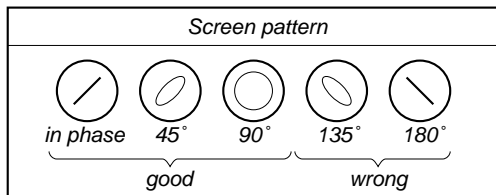
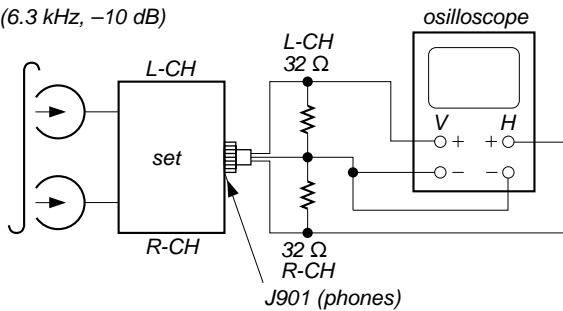
2. Turn the adjustment screw for the maximum output levels. If these levels do not match. Turn the adjustment screw until both of output levels match together within 1 dB.



3. Phase Check

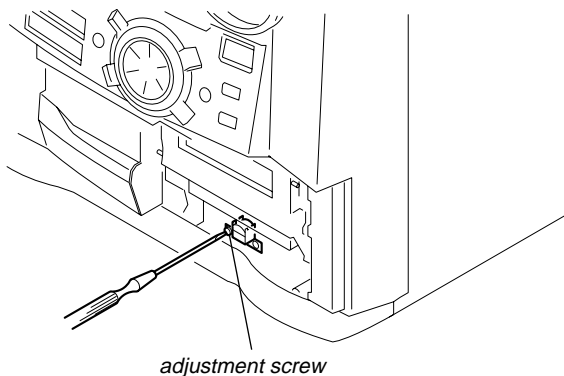
Mode: playback

test tape
P-4-A063
(6.3 kHz, -10 dB)



Note: Finish the screw adjustment with a turn in the clockwise direction.
After the adjustment, lock the adjustment screw.

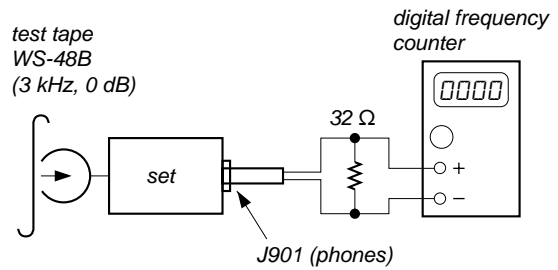
Adjustment Location: playback head (deck A)
record/playback head (deck B)



Tape Speed Adjustment DECK A DECK B

Procedure:

Mode: Playback



Adjustment Value: normal tape speed

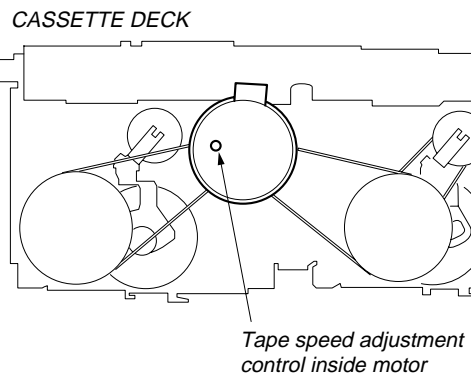
Adjust the tape speed adjustment control inside motor, so that the frequency counter reading becomes 3,000 Hz.

Specification Value:

Digital frequency counter
2,910 – 3,090Hz

Frequency difference between the beginning and the end of the tape should be within 1.5% (45 Hz).

Adjustment Location:



Sample Value of Wow and flutter

W.RMS (JIS) less than 0.3%
(test tape: WS-48B)

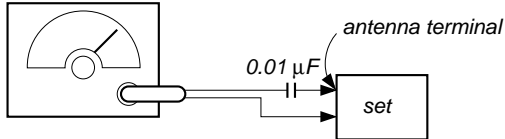
TUNER SECTION **0 dB = 1 μ V**

• **FM Section**

Setting:

BAND switch: FM

FM RF signal generator



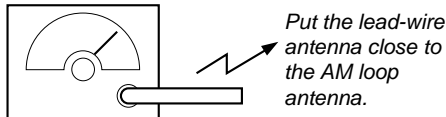
22.5 kHz frequency deviation by 1 kHz signal
Output level : as low as possible

• **AM Section**

Setting:

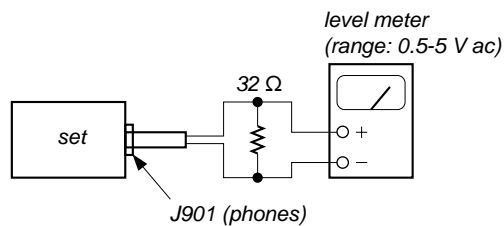
BAND switch: AM

AM RF signal generator

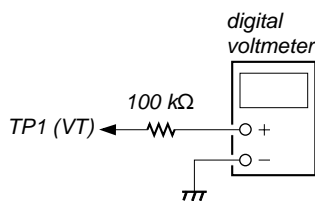


30% amplitude modulation by 400 Hz signal
Output level : as low as possible

• **Connecting Level Meter (FM and AM)**



• **Connecting Digital Voltmeter (FM and AM)**



- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

FM FREQUENCY COVERAGE CHECK		
Frequency Display	87.5 MHz	108 MHz
Reading on Digital voltmeter	1.65 \pm 0.15V	4.0 \pm 0.2 V
Adjustment Part	<confirmation>	<confirmation>

FM TRACKING CHECK	
Adjust for a maximum reading on level meter.	
<confirmation>	<confirmation>
87.5 MHz	108 MHz

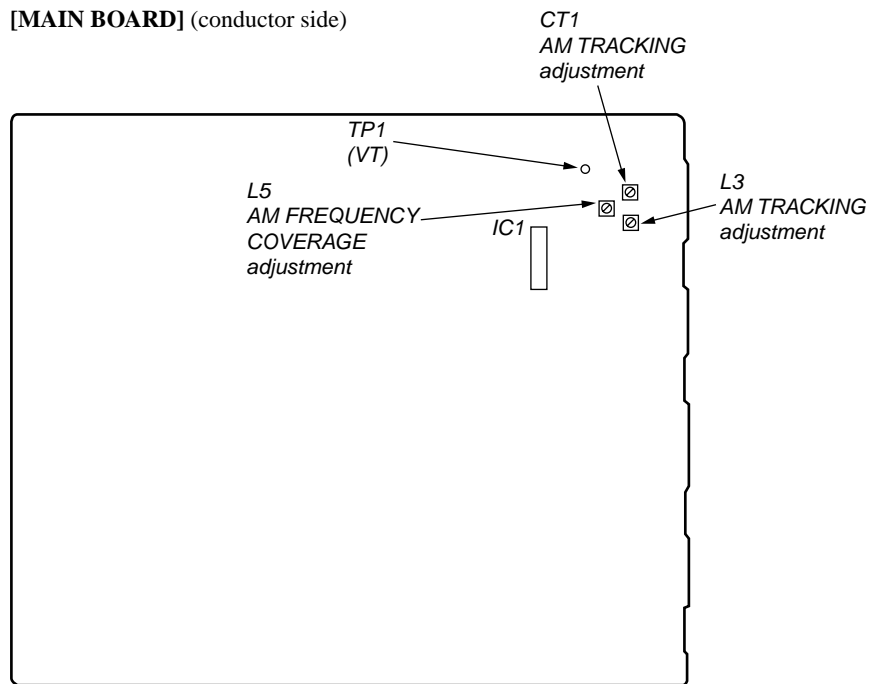
AM IF ADJUSTMENT	
Adjust for a maximum reading on level meter.	
CFT1	
450 kHz	

AM FREQUENCY COVERAGE ADJUSTMENT		
Frequency Display	531 kHz	1,611 kHz
Reading on Digital voltmeter	0.75 \pm 0.15 V	5.4 \pm 0.2 V
Adjustment Part	L5	<confirmation>

AM TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter.	
L3	CT1
621 kHz	1,404 kHz

Adjustment Location: See page 14.

Adjustment Location: main board



CD SECTION

CD section adjustments are done automatically in this set.
In case of operation check, confirm that focus bias.

SERVICE NOTE

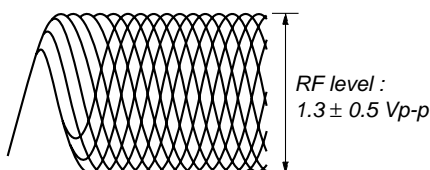
When the CD block is going to be inspected, be sure to connect beforehand the jig (J-2501-020-A) between the CD board (CNP706) and the DISPLAY board (CNP802).

FOCUS BIAS CHECK

1. Connect the oscilloscope between IC701 pin ③ (TP RFO) and GND on Main board.
2. Insert the disc (YEDS-18). (Part No. : 3-702-101-01)
3. Press the CD button.
4. Confirm that the oscilloscope waveform is as shown in the figure below. (eye pattern)
A good eye pattern means that the diamond shape (◇) in the center of the waveform can be clearly distinguished.

- RF signal reference waveform (eye pattern)

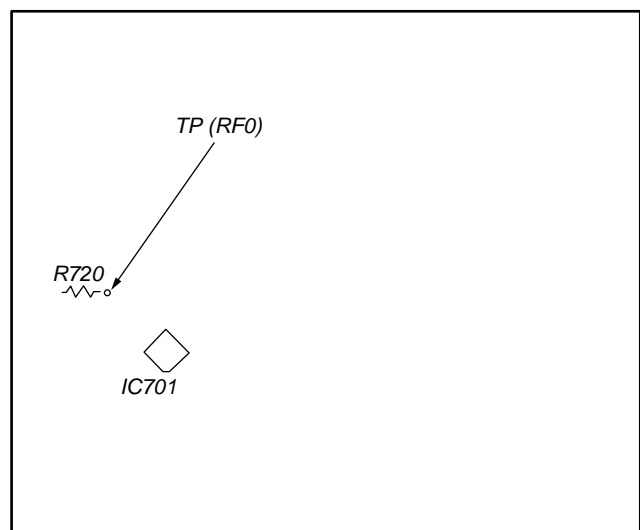
VOLT/DIV : 200 mV (10 : 1 probe in use)
TIME/DIV : 500 nS



When observing the eye pattern, set the oscilloscope for AC range and raise vertical sensitivity.

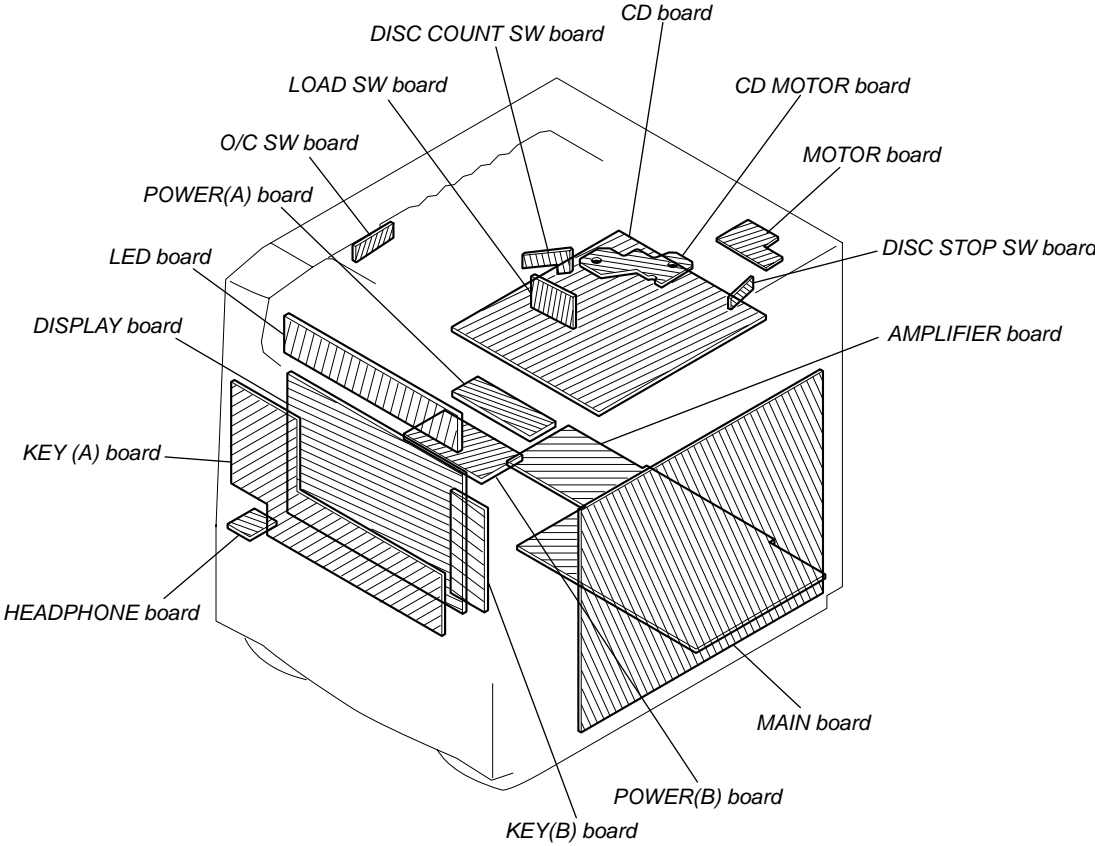
Test Point:

[CD BOARD] (conductor side)



SECTION 5 DIAGRAMS






5-1. CIRCUIT BOARDS LOCATION



Note on Printed Wiring Board:

- — : parts extracted from the component side.
- : parts extracted from the conductor side.
- ▒ : Pattern from the side which enables seeing.

Note on Schematic Diagrams:

- All capacitors are in μF unless otherwise noted. pF: $\mu\mu\text{F}$
50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/4\text{ W}$ or less unless otherwise specified.
- \triangle : internal component.
-  : nonflammable resistor.
-  : fusible resistor.
-  : panel designation.
-  : adjustment for repair.
-  : B+ Line.
- Power voltage is dc 9 V and fed with regulated dc power supply from battery terminal.
- Voltages and waveforms are dc with respect to ground

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

under no-signal (detuned) conditions.

– For Radio, TAPE section MAIN (1/2) –

No mark : FM

() : AM

< > : CD PLAY

[] : TAPE PLAY


- Voltages are taken with a VOM (Input impedance $10\text{ M}\Omega$).
Voltage variations may be noted due to normal production tolerances.

- Signal path.

 : FM

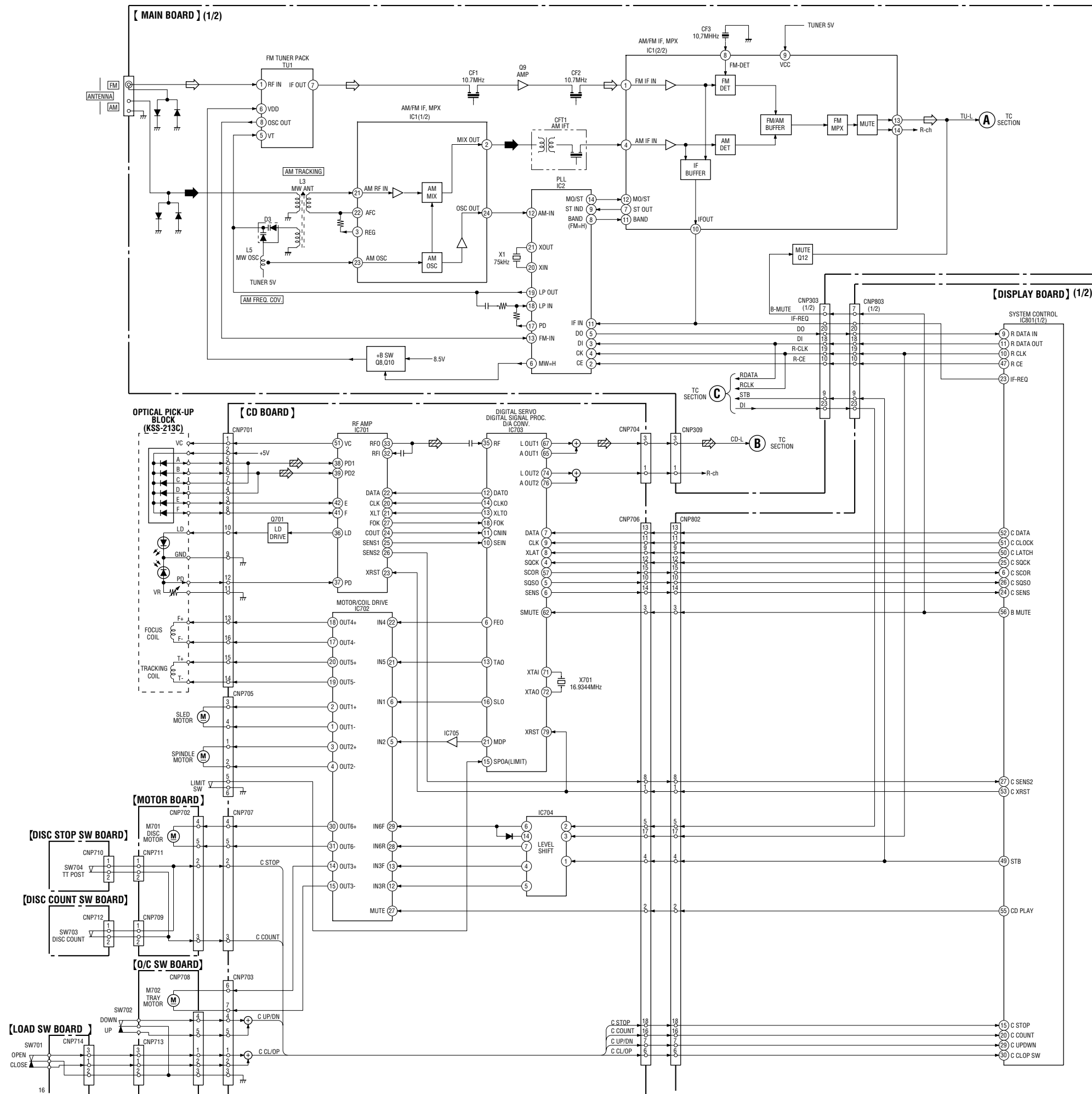
 : AM

 : PB

 : REC

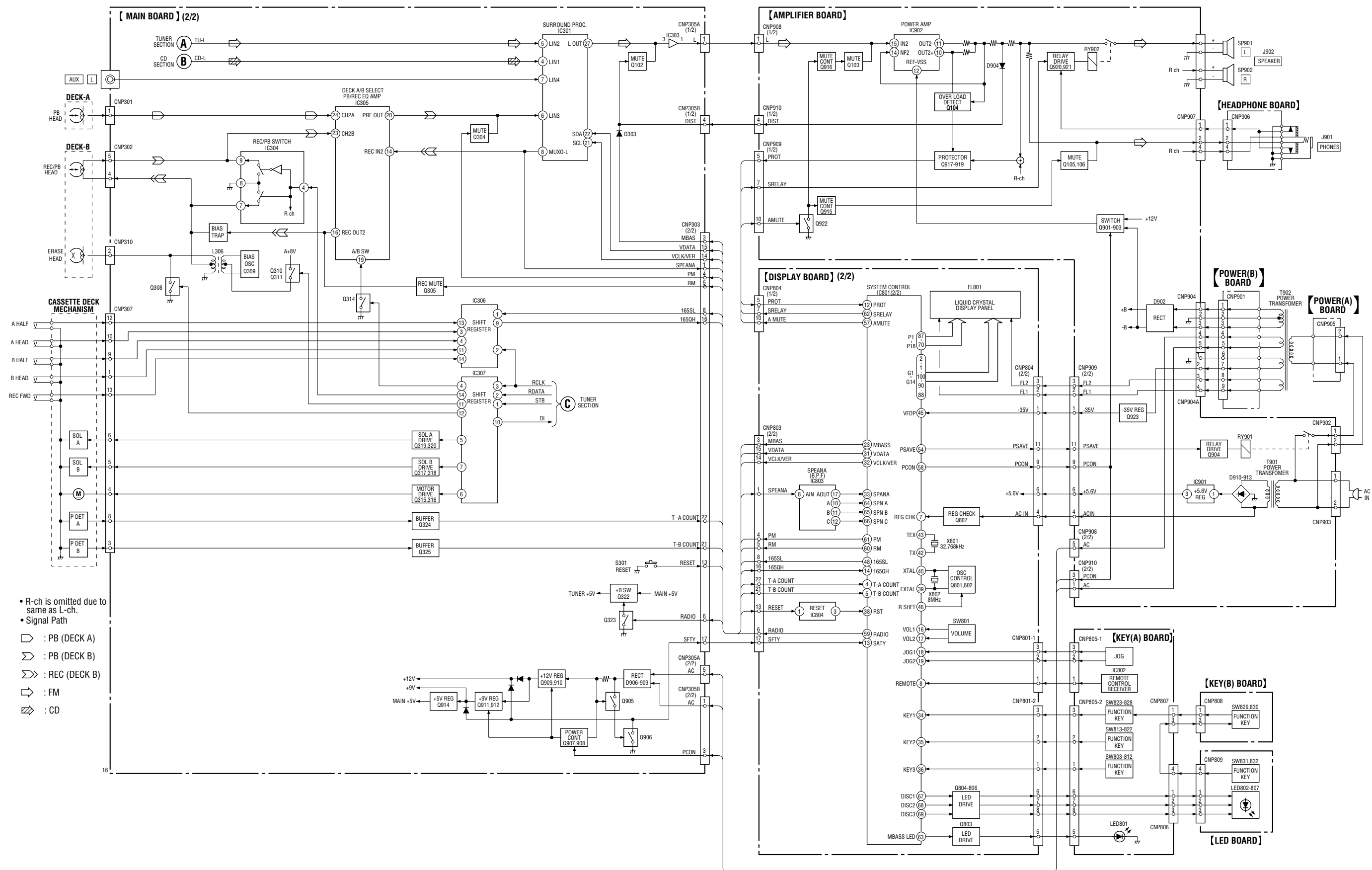
 : CD

5-2. BLOCK DIAGRAM – CD SECTION –

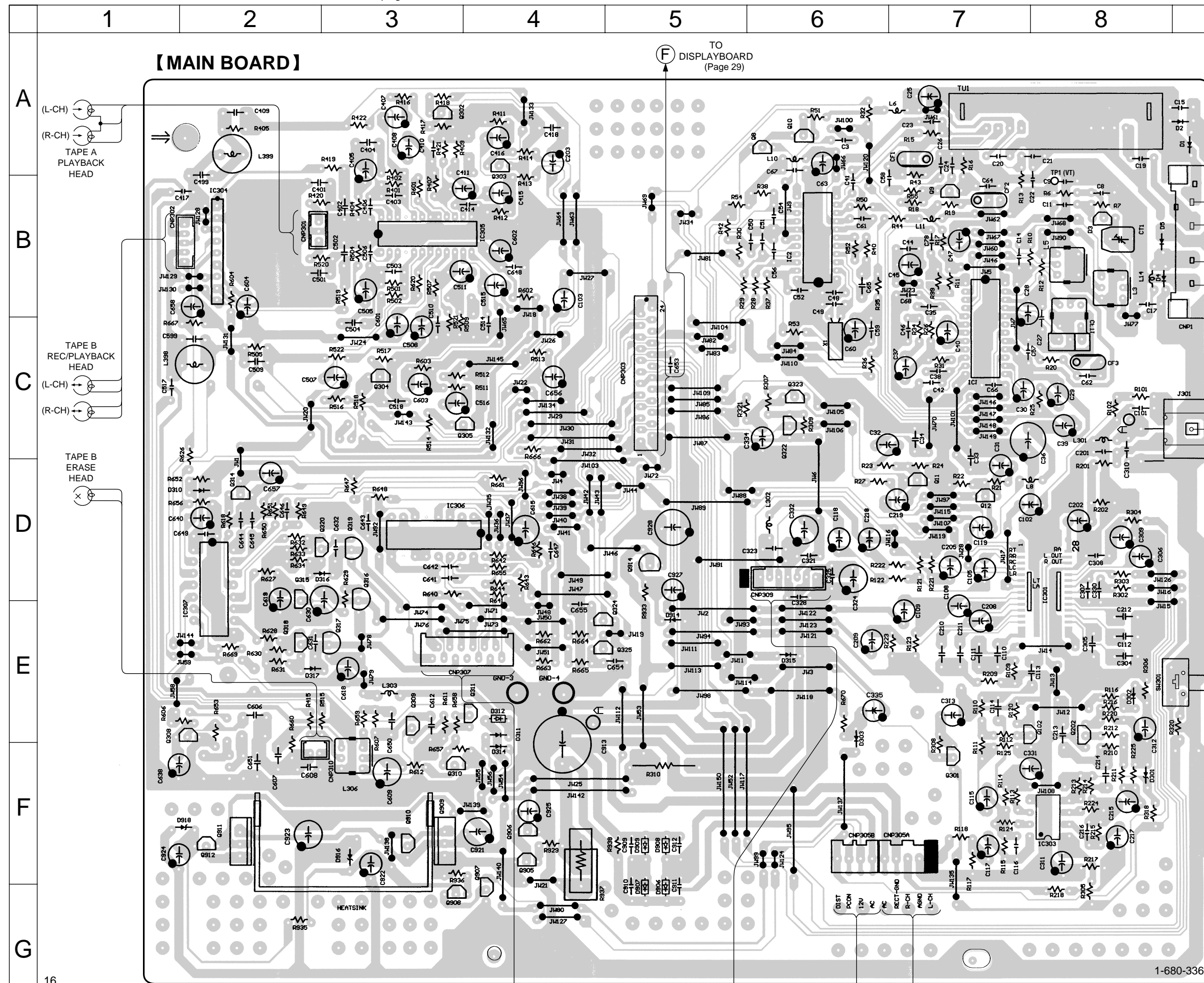


• R-ch is omitted due to same as L-ch.
 • Signal Path
 ◻ : FM
 ◻ : CD
 ◻ : AM

5-3. BLOCK DIAGRAM - MAIN SECTION -



5-4. PRINTED WIRING BOARD - MAIN SECTION - • See page 15 for Circuit Boards Location.

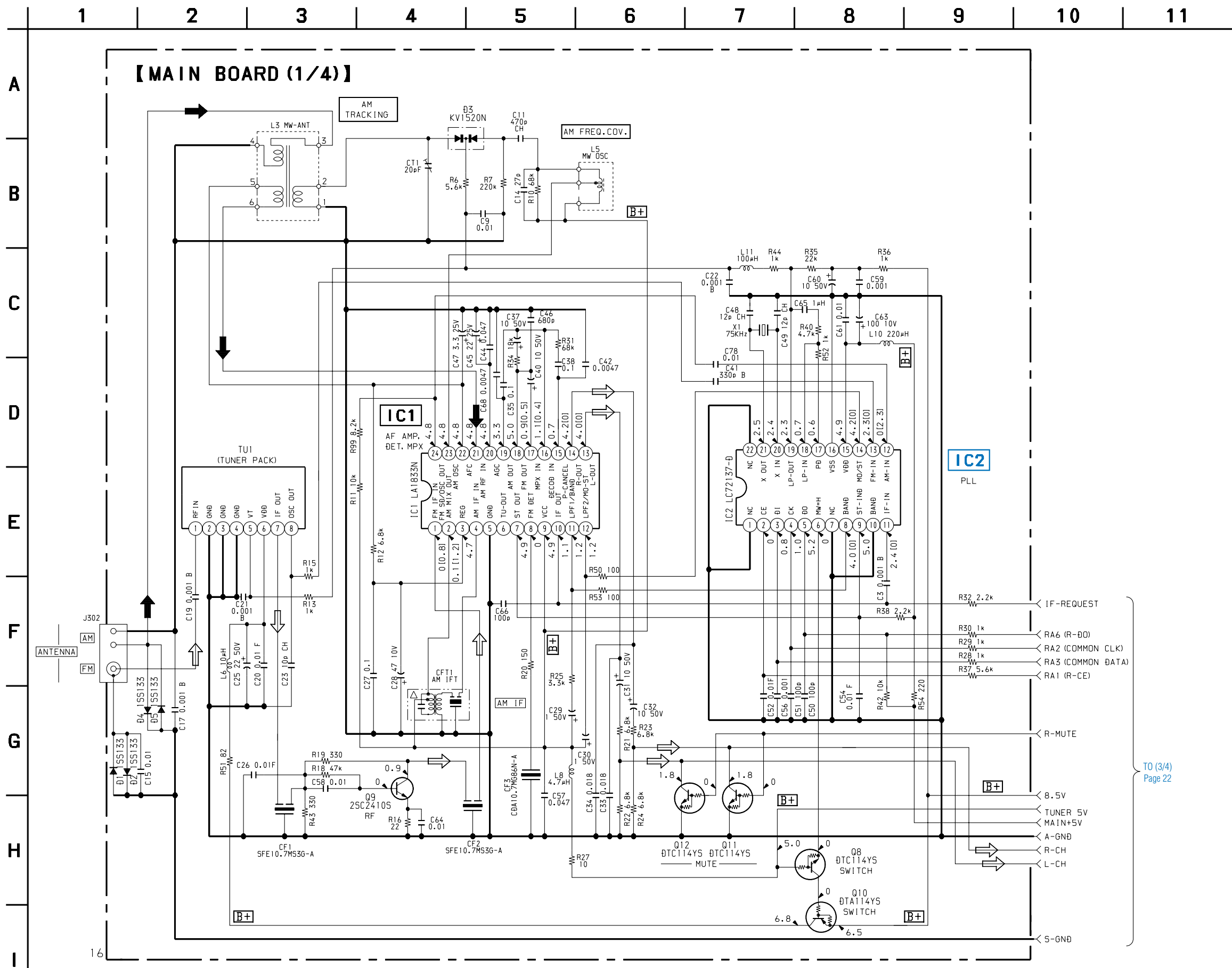


• Semiconductor Location

Ref. No.	Location
D1	A-8
D2	A-8
D3	B-8
D4	B-8
D5	B-8
D301	F-8
D302	E-8
D303	E-6
D310	D-2
D311	E-4
D312	E-4
D314	F-4
D315	E-6
D316	D-2
D317	E-2
D906	G-5
D907	G-5
D908	F-5
D909	F-5
D914	E-5
D916	F-3
D918	F-1
IC1	B-7
IC2	B-6
IC301	D-8
IC303	F-8
IC304	B-2
IC305	B-3
IC306	D-3
IC307	D-2
Q8	A-6
Q9	B-7
Q10	A-6
Q11	D-7
Q12	D-7
Q102	E-7
Q202	E-8
Q301	F-7
Q302	A-3
Q303	B-4
Q304	C-3
Q305	C-3
Q308	E-1
Q309	E-3
Q310	F-3
Q311	E-4
Q314	D-4
Q315	D-2
Q316	D-2
Q317	E-3
Q318	E-2
Q319	D-3
Q320	D-2
Q322	C-6
Q323	C-6
Q324	E-5
Q325	E-5
Q905	F-4
Q906	F-4
Q907	G-3
Q908	G-3
Q909	F-3
Q910	F-3
Q911	F-2
Q912	F-2
Q914	D-5

1-680-336-11

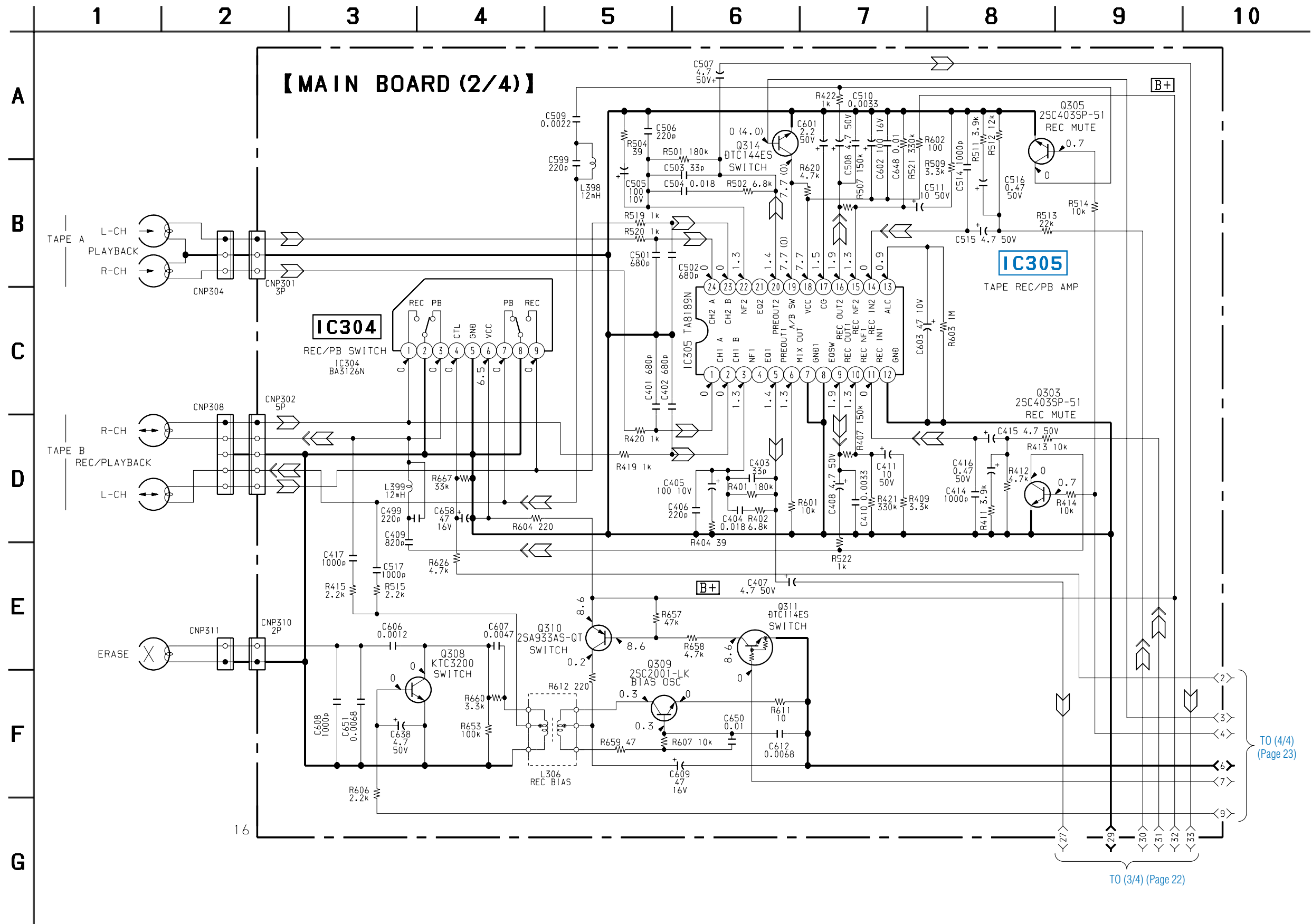
(11)



TO (3/4)
Page 22

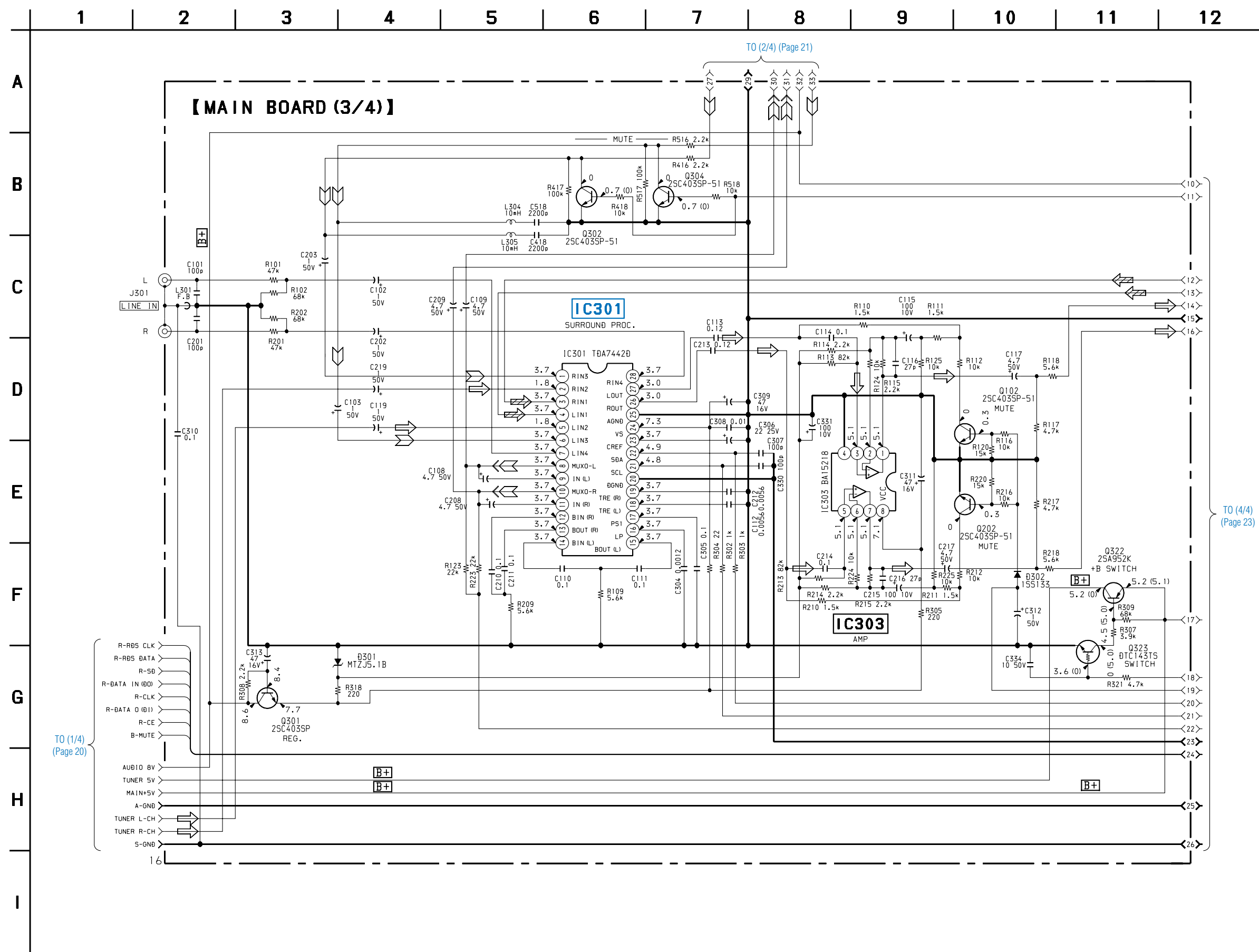
5-6. SCHEMATIC DIAGRAM – MAIN SECTION (2/4) –

• See page 37 for IC Block Diagrams.



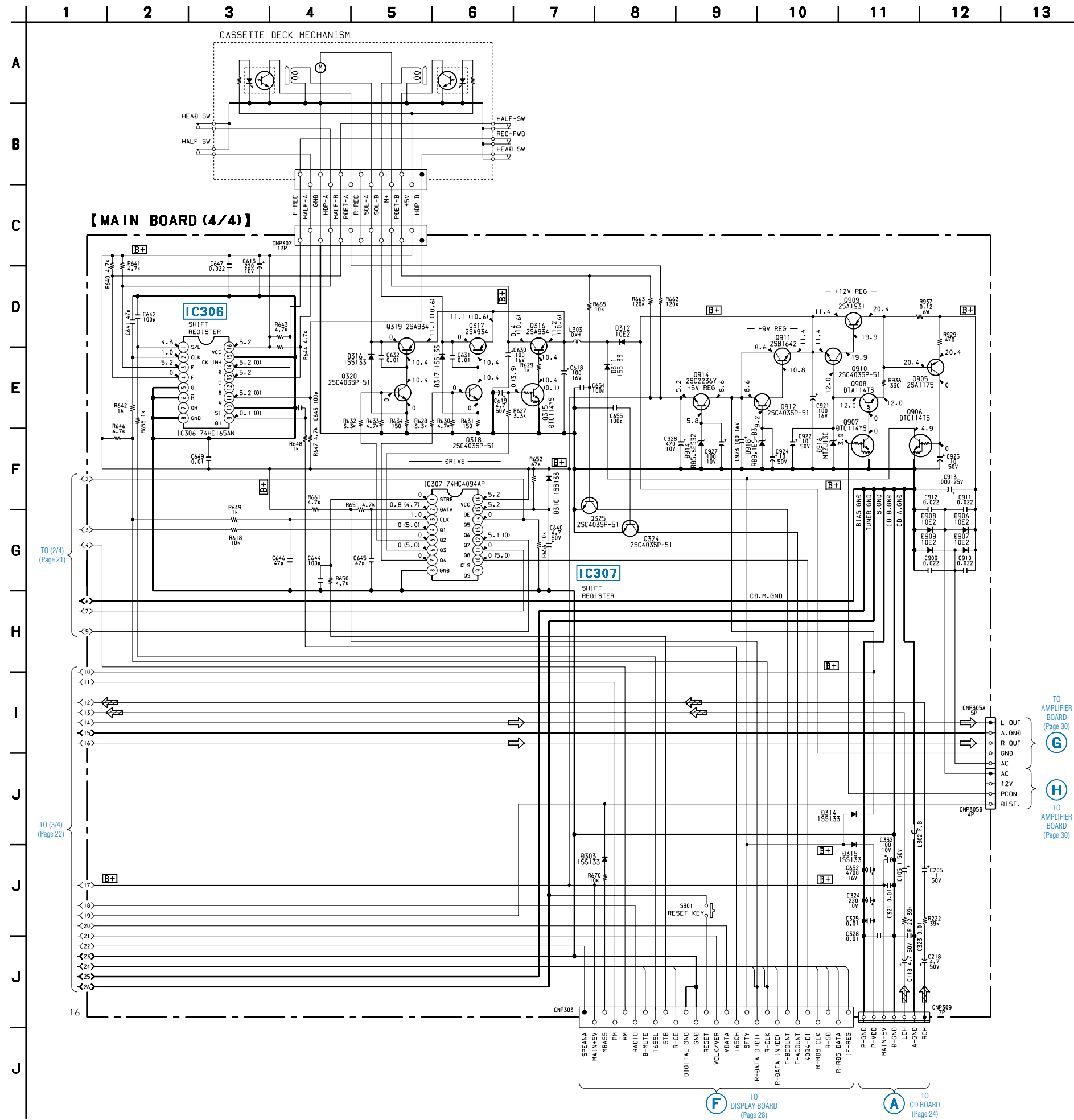
TO (4/4) (Page 23)

TO (3/4) (Page 22)



5-8. SCHEMATIC DIAGRAM – MAIN SECTION (4/4) –

• See page 34,37 for IC Block Diagrams.

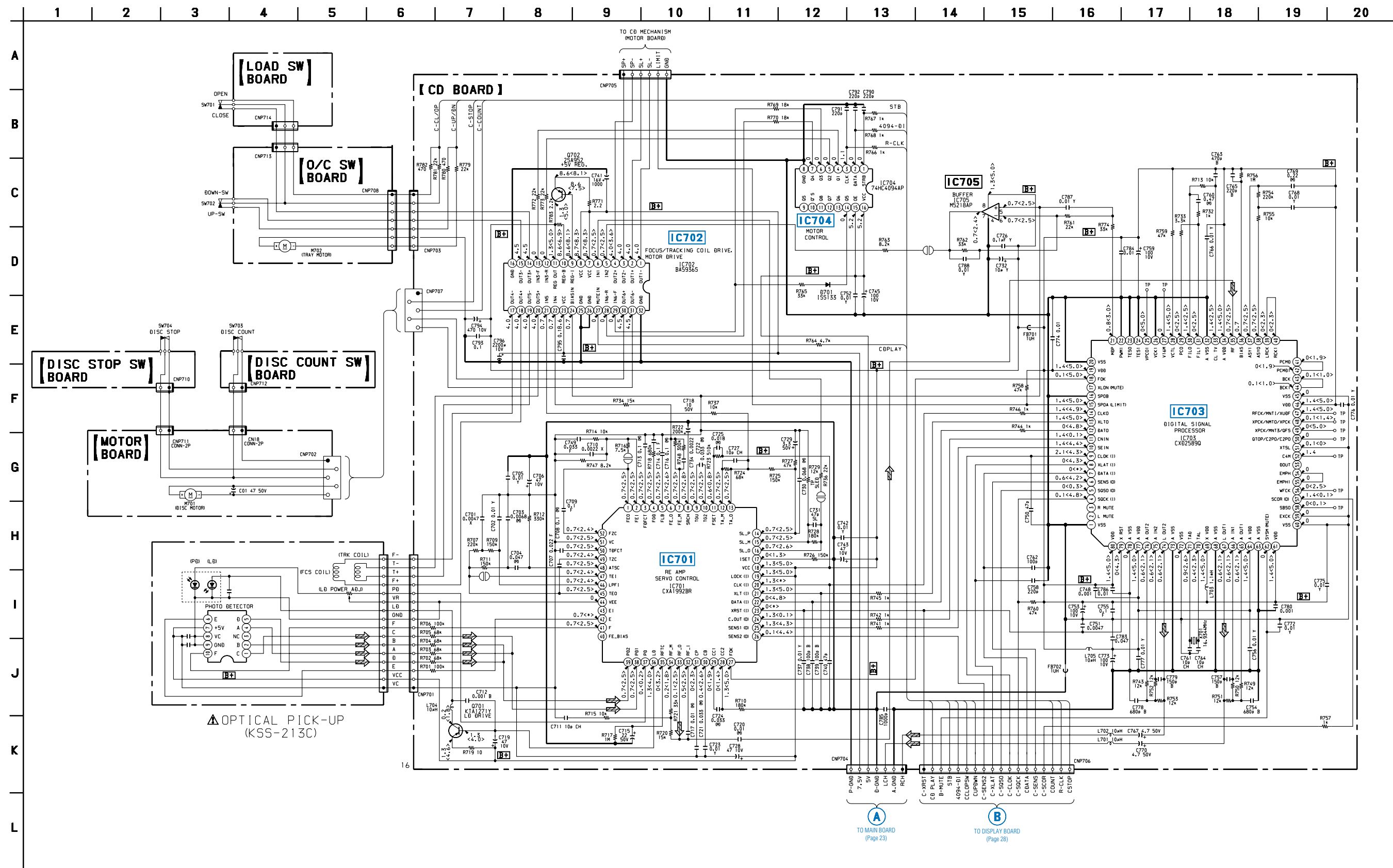


F TO DISPLAY BOARD (Page 28)

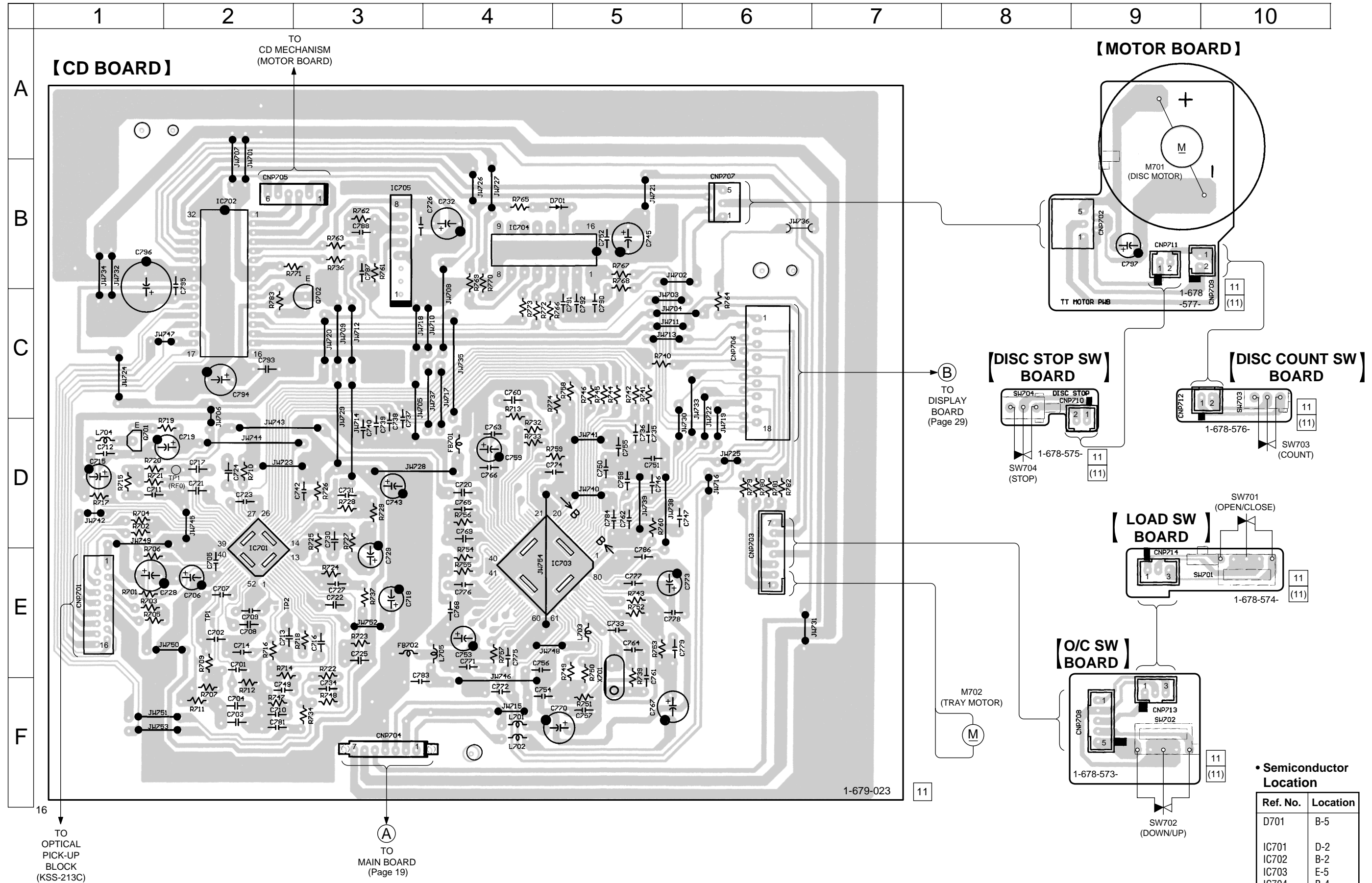
A TO CD BOARD (Page 24)

G TO AMPLIFIER BOARD (Page 30)

H TO AMPLIFIER BOARD (Page 30)

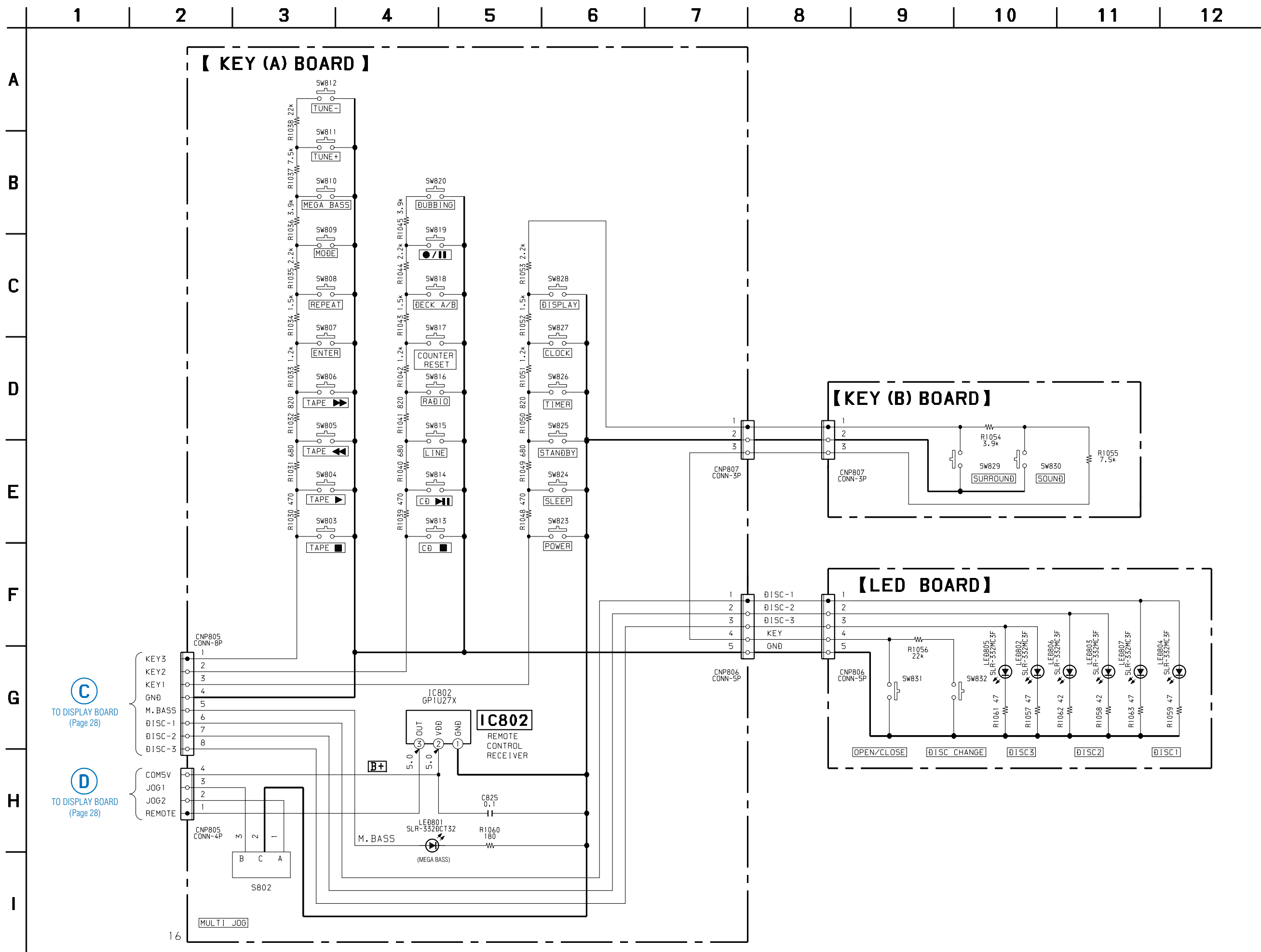


5-10. PRINTED WIRING BOARD – CD SECTION – • See page 15 for Circuit Boards Location.



• Semiconductor Location

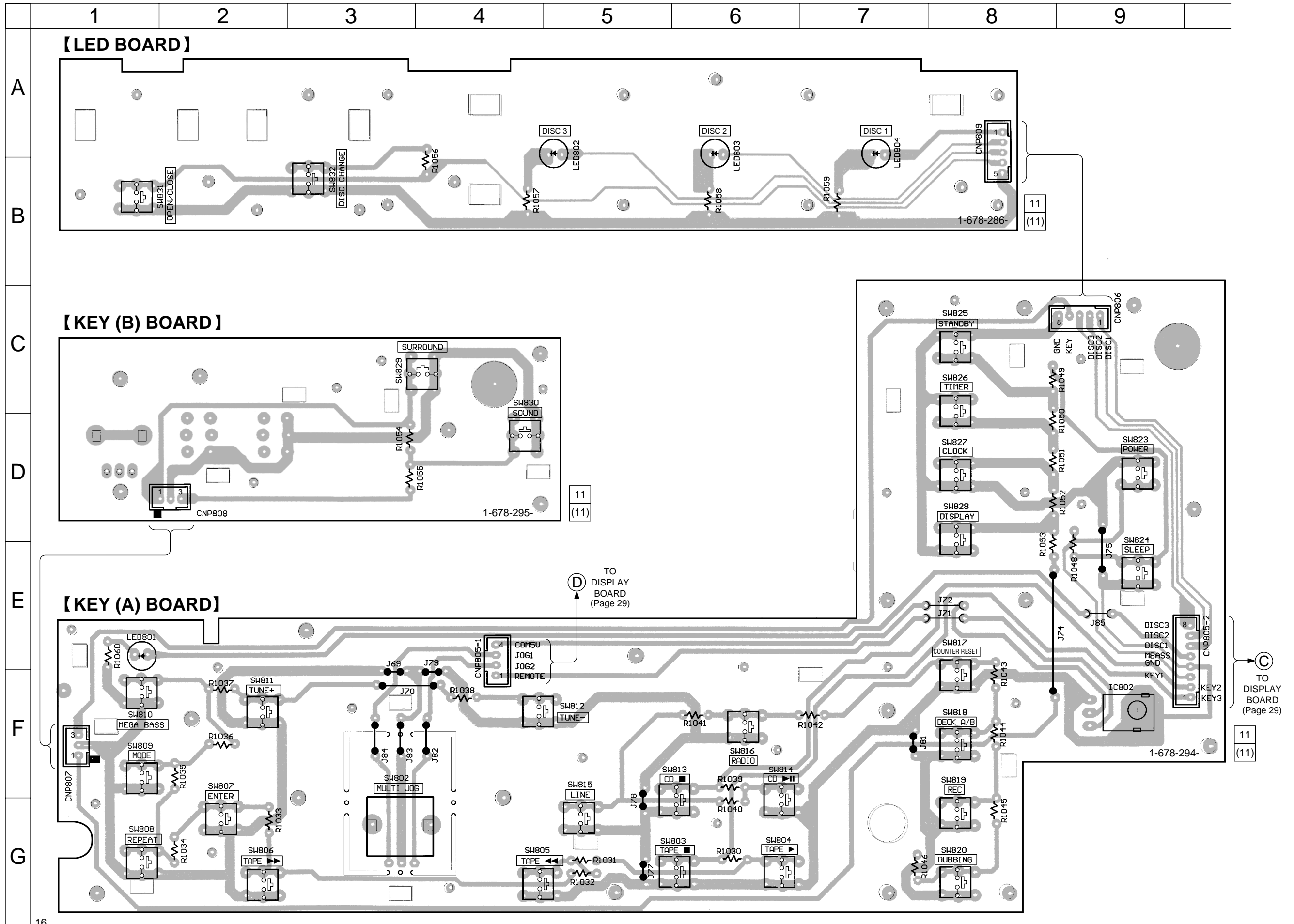
Ref. No.	Location
D701	B-5
IC701	D-2
IC702	B-2
IC703	E-5
IC704	B-4
IC705	B-3
Q701	D-1
Q702	C-3



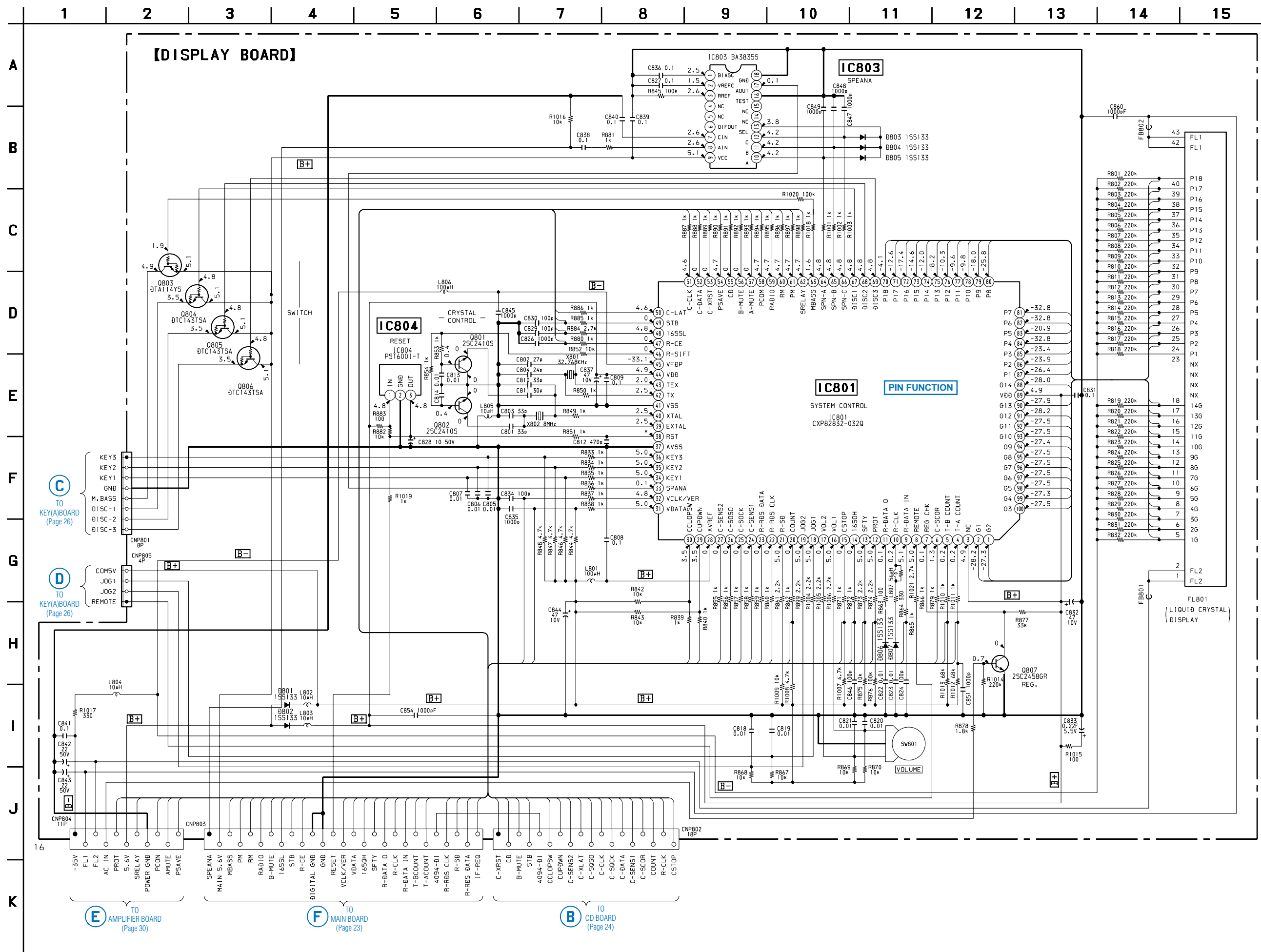
C TO DISPLAY BOARD (Page 28)

D TO DISPLAY BOARD (Page 28)

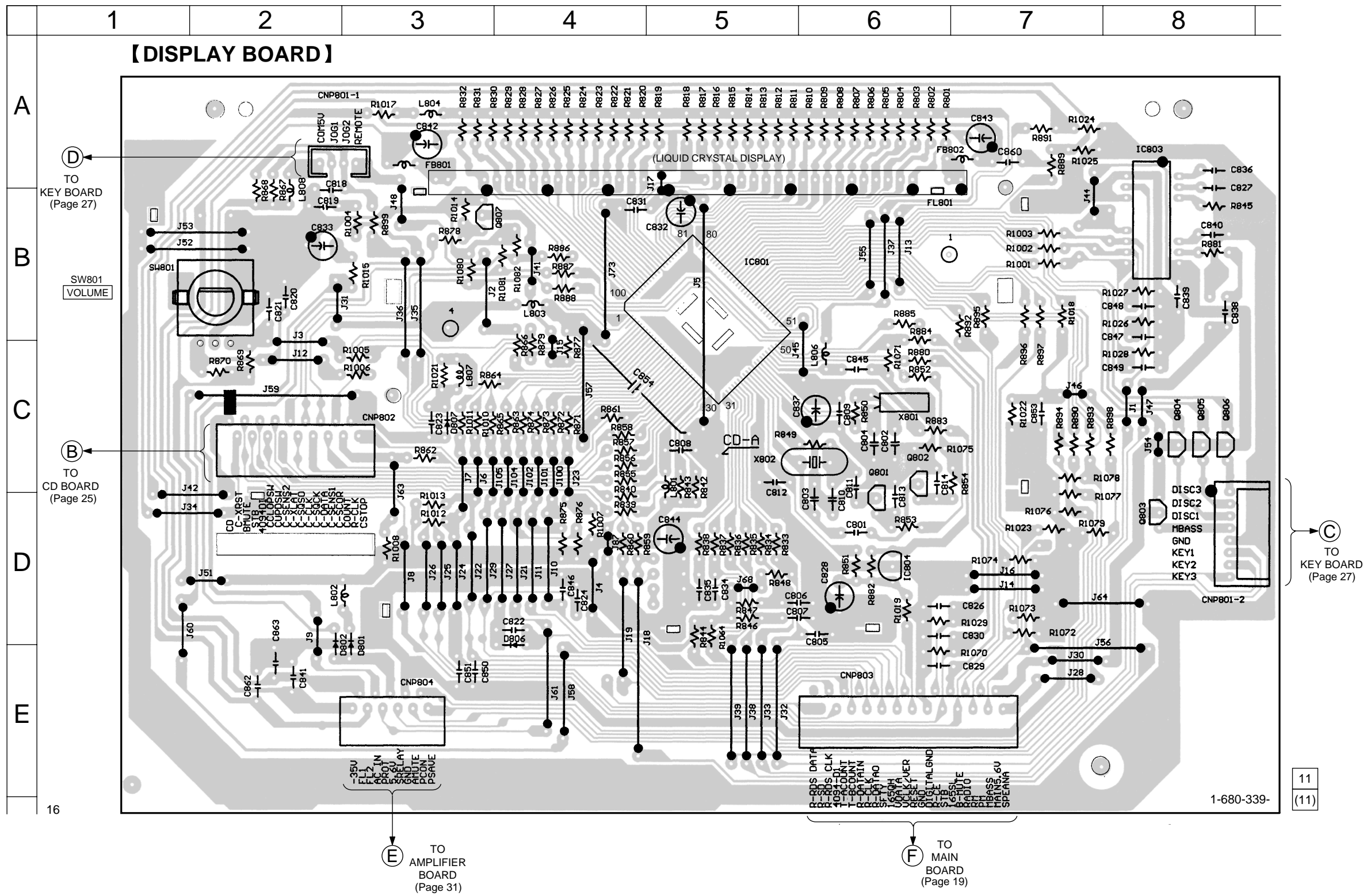
5-12. PRINTED WIRING BOARD – KEY SECTION – • See page 15 for Circuit Board Location.



16



5-14. PRINTED WIRING BOARD – DISPLAY SECTION – • See page 15 for Circuit Boards Location.



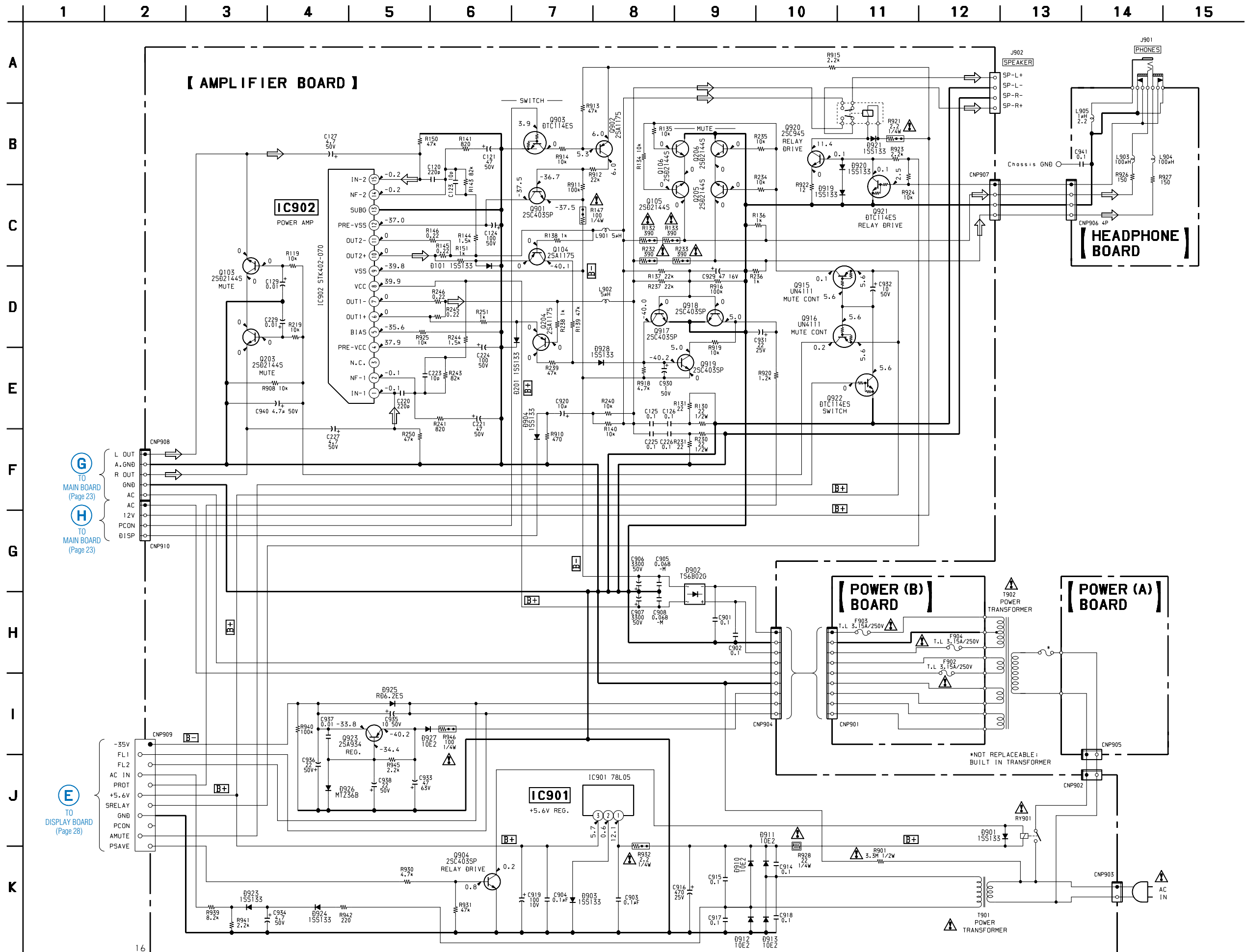
• Semiconductor Location

Ref. No.	Location
D801	E-3
D802	E-2
D806	E-4
D807	C-3
IC801	B-5
IC803	B-8
IC804	D-6
Q801	C-6
Q802	C-6
Q803	D-8
Q804	C-8
Q805	C-8
Q806	C-8
Q807	B-3

16

11
(11)

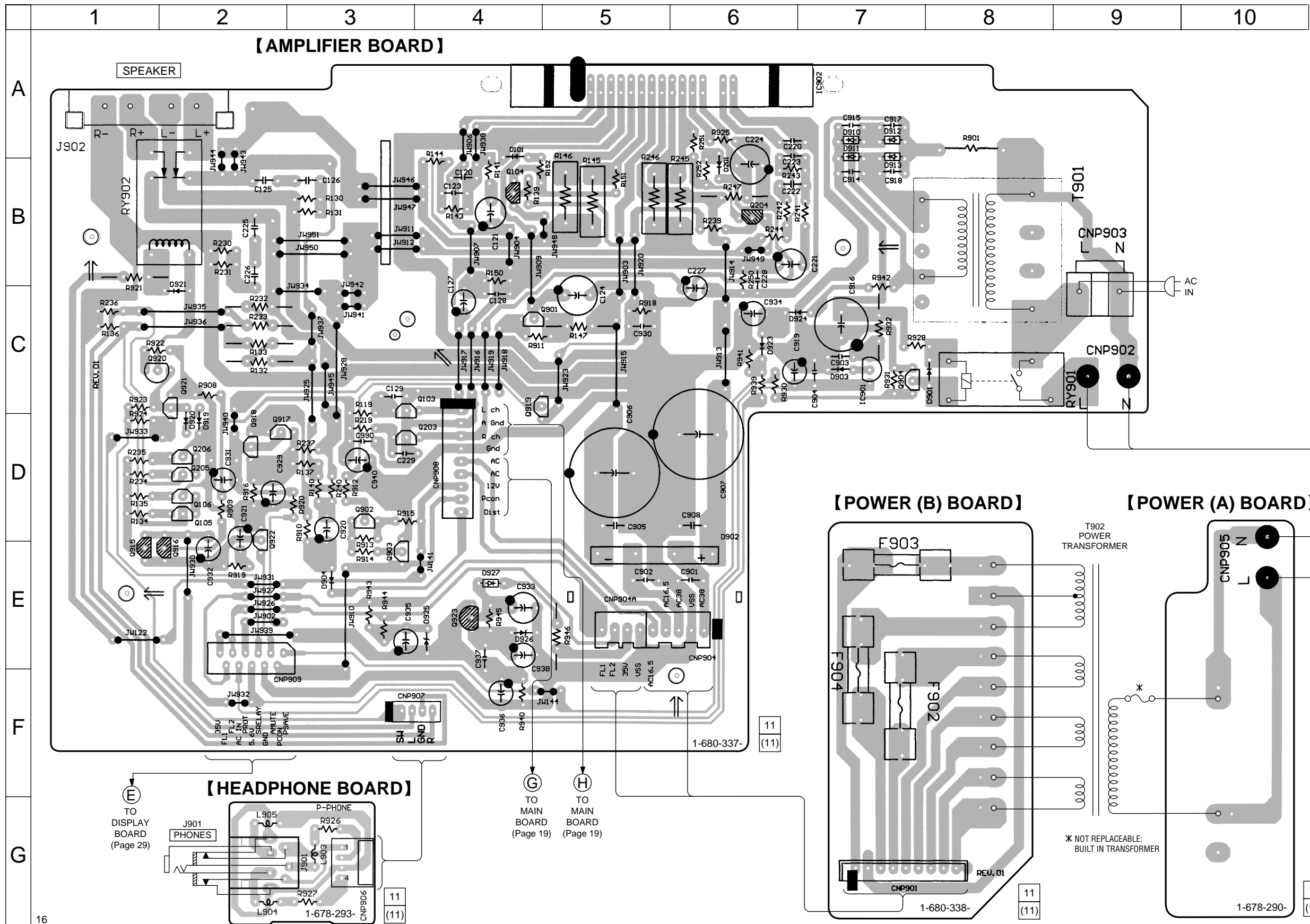
5-15. SCHEMATIC DIAGRAM - POWER SECTION -



G TO MAIN BOARD (Page 23)
H TO MAIN BOARD (Page 23)

E TO DISPLAY BOARD (Page 28)

5-16. PRINTED WIRING BOARD – POWER SECTION – • See page 15 for Circuit Boards Location.



• Semiconductor Location

Ref. No.	Location
D101	A-4
D201	A-6
D901	C-8
D902	E-6
D903	C-7
D904	E-3
D910	A-7
D911	A-7
D912	A-7
D913	A-7
D919	D-2
D920	D-2
D921	C-2
D923	C-6
D924	C-6
D925	E-4
D926	E-4
D927	E-4
D928	E-4
IC901	C-7
IC902	A-6
Q103	D-3
Q104	B-4
Q105	D-2
Q106	D-2
Q203	D-3
Q204	B-6
Q205	D-2
Q206	D-2
Q901	C-5
Q902	D-3
Q903	E-4
Q904	C-7
Q915	E-1
Q916	E-1
Q917	D-2
Q918	D-2
Q919	C-5
Q920	C-2
Q921	C-2
Q922	E-2
Q923	E-4

5-17. IC PIN DESCRIPTION

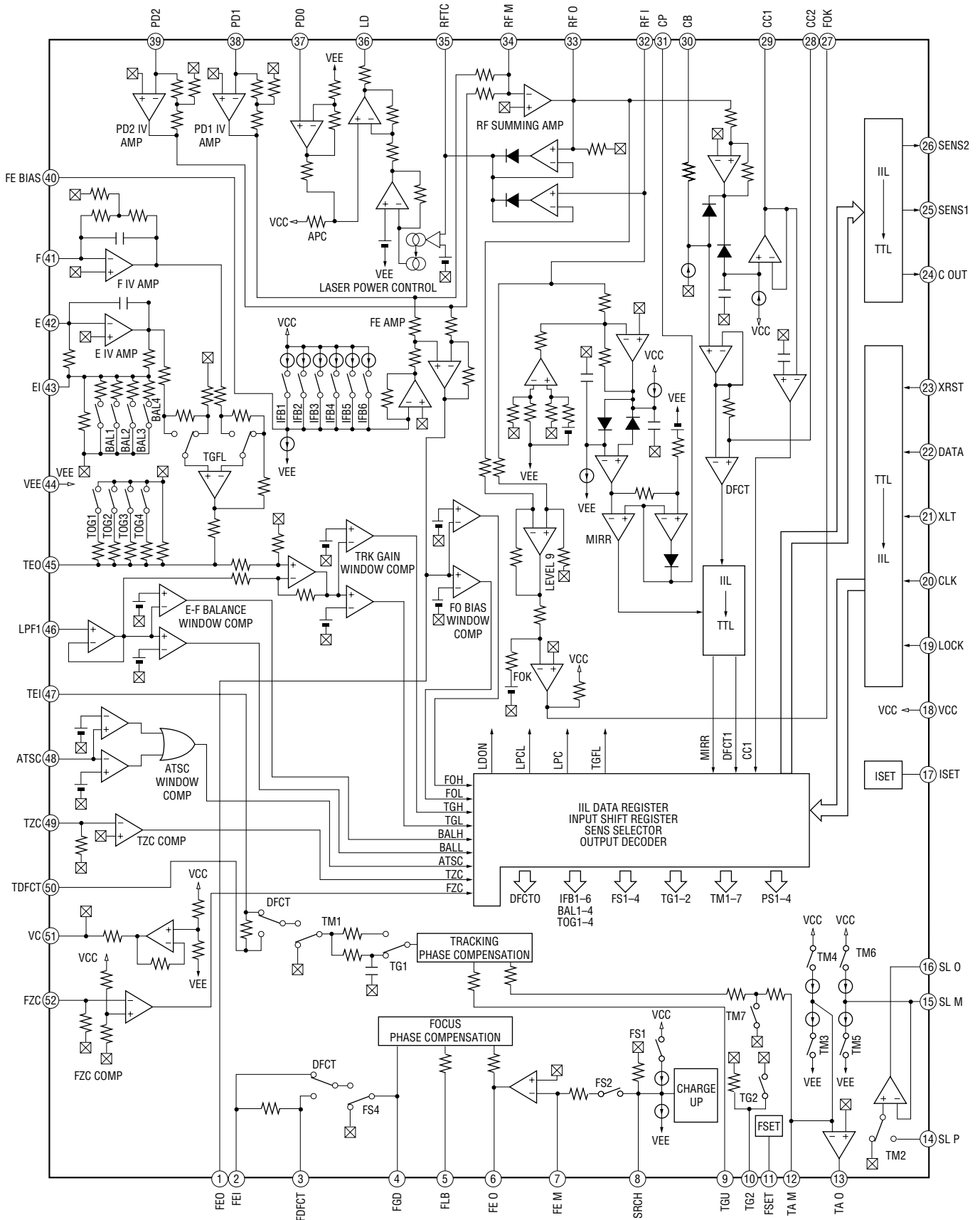
• IC801 CXP82832-032Q (SYSTEM CONTROL) (DISPLAY BOARD)

Pin No.	Pin Name	I/O	Description
1	GRID 2G	O	Display grid output
2	GRID 1G	O	Display grid output
3	NC	-	No connect
4	T-A COUNT	I	Tape A counter in
5	T-B COUNT	I	Tape B counter in
6	C-SCOR	I	CD SCOR in
7	REG-CHK	I	AC/Regulator check
8	RMC	I	Remote in
9	R-DATA IN	I	Radio PLL data in
10	R-CLK	O	Radio PLL clk out / common clk out
11	R-DATA	O	Radio PLL data out / common data out
12	PROT	I	Speaker protect det
13	SFTY	I	Pwr safety det
14	165QH	O	74165 data in
15	CSTOP	I	CD mech. stop in
16	VOL1	I	Volume encoder in
17	VOL2	I	Volume encoder in
18	JOG1	I	Multi-jog encoder in
19	JOG2	I	Multi-jog encoder in
20	COUNT	I	CD mech. count in
21	R-SD	-	Radio SD in
22	RDS-CLK	-	Rds-clk
23	RDS-DATA	-	Rds-data
24	C-SENS	I	CD SENS in
25	C-SQCK	I	CD sub Q clk in
26	C-SQSO	I	CD sub Q Data in
27	C-SENS 2	I	CD SENS2 in
28	A VREF	-	Power supply
29	CUPDWN	O	CD mech. up/down SW
30	CCLOPSW	O	CD mech op/cl SW
31	VDATA	O	Volume data out
32	VCLK	O	Volume clk out
33	SPEANA	I	Speana level in
34	KEY 1	I	A/D key in
35	KEY 2	I	A/D key in
36	KEY 3	I	A/D key in
37	A VSS	-	Ground
38	RST	I	Reset in
39	EXTAL 1	I	Clk in
40	XTAL 1	I	Clk in
41	VSS	-	Ground
42	TX	O	slow clk in
43	TEX	I	slow clk in
44	VDD	-	Power supply
45	VFDP	-	Power supply
46	SHIFT-CLK	O	Radio shift clk out
47	R-CE	O	Radio PLL CE out
48	165SL	O	74165 S/L out
49	STB	O	4094 STB ctrl out
50	C-XLAT	O	CD data Latch out

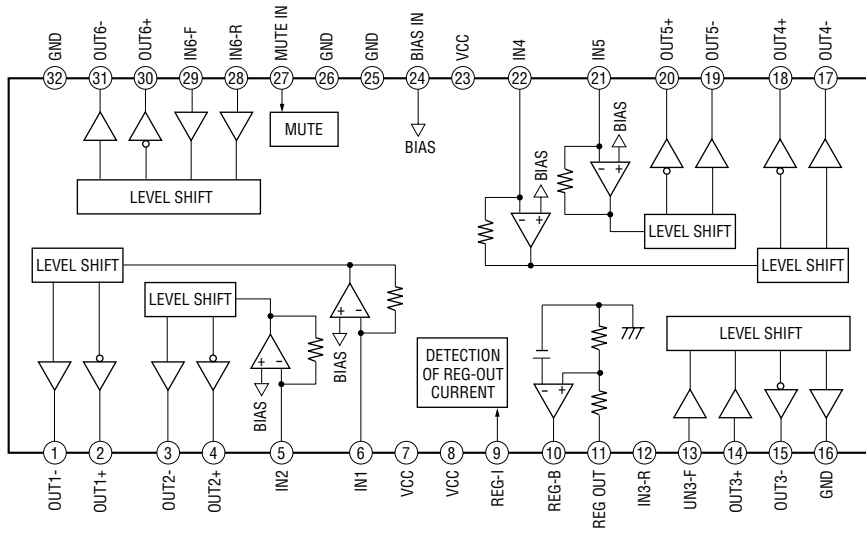
Pin No.	Pin Name	I/O	Description
51	C-CLK	O	CD clk out
52	C-DATA	O	CD data out
53	C-XRST	O	CD reset out
54	PSAVE	O	Power save relay ctrl
55	CD	O	CD Vdd ctrl
56	B-MUTE	O	CD & tuner mute
57	A-MUTE	O	Audio mute
58	P-CON	O	Power on ctrl
59	RADIO	O	Radio Vdd ctrl
60	RM	O	Recording mute
61	PM	O	Tape play mute
62	SRELAY	O	Speaker relay ctrl
63	MBASS	O	Mega bass on/off
64	SPN-A	O	Speana output slect
65	SPN-B	O	Speana output slect
66	SPN-C	O	Speana output slect
67	DISC1	O	Disc LED out
68	DISC2	O	Disc LED out
69	DISC3	O	Disc LED out
70 to 87	P18 to P1	O	Display Segment Out
88	G14	O	Display grid out
89	VDD	-	Power supply
90 to 100	G13 to G3	O	Display grid out

5-18. IC BLOCK DIAGRAMS

IC701 CXA1992BR (CD BOARD)

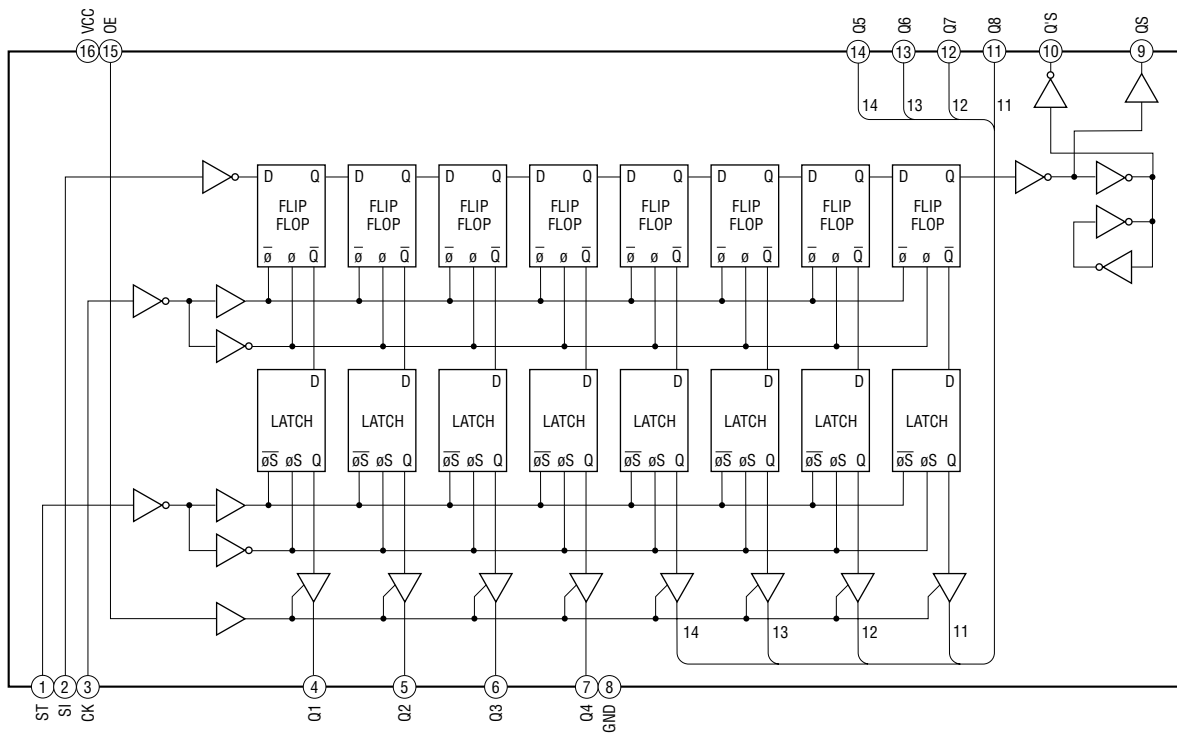


IC702 BA5936S (CD BOARD)

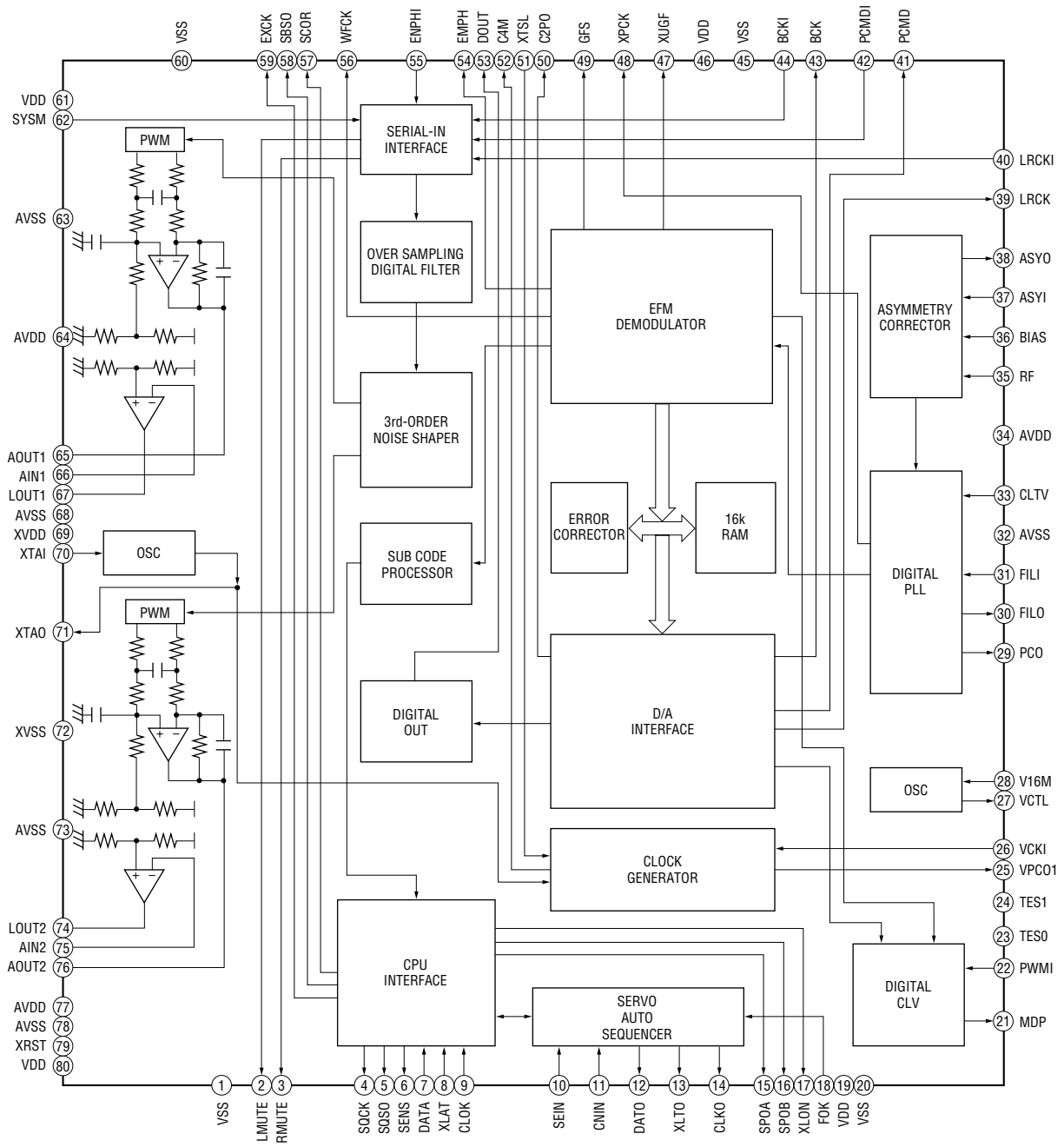


IC704 TC74HC4094AP (CD BOARD)

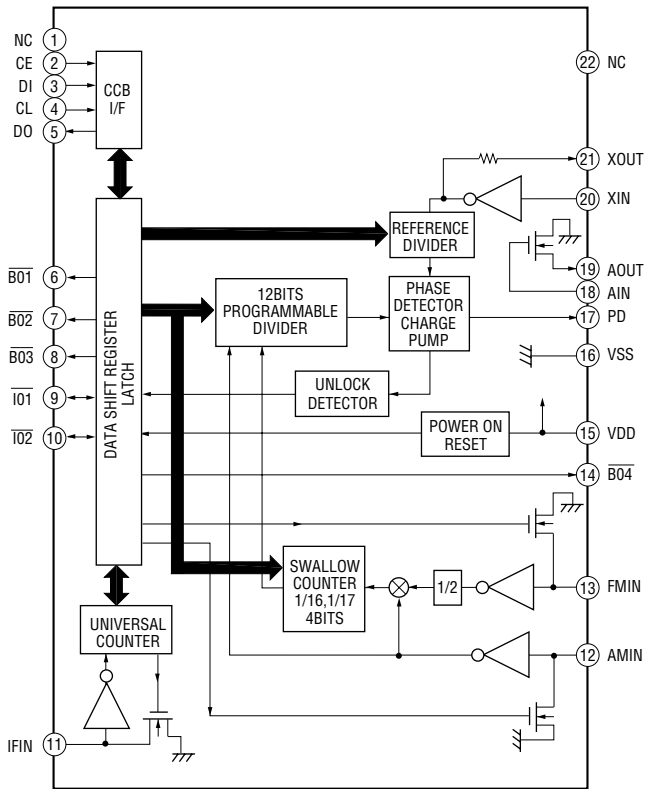
IC307 TC74HC4094AP (MAIN BOARD)



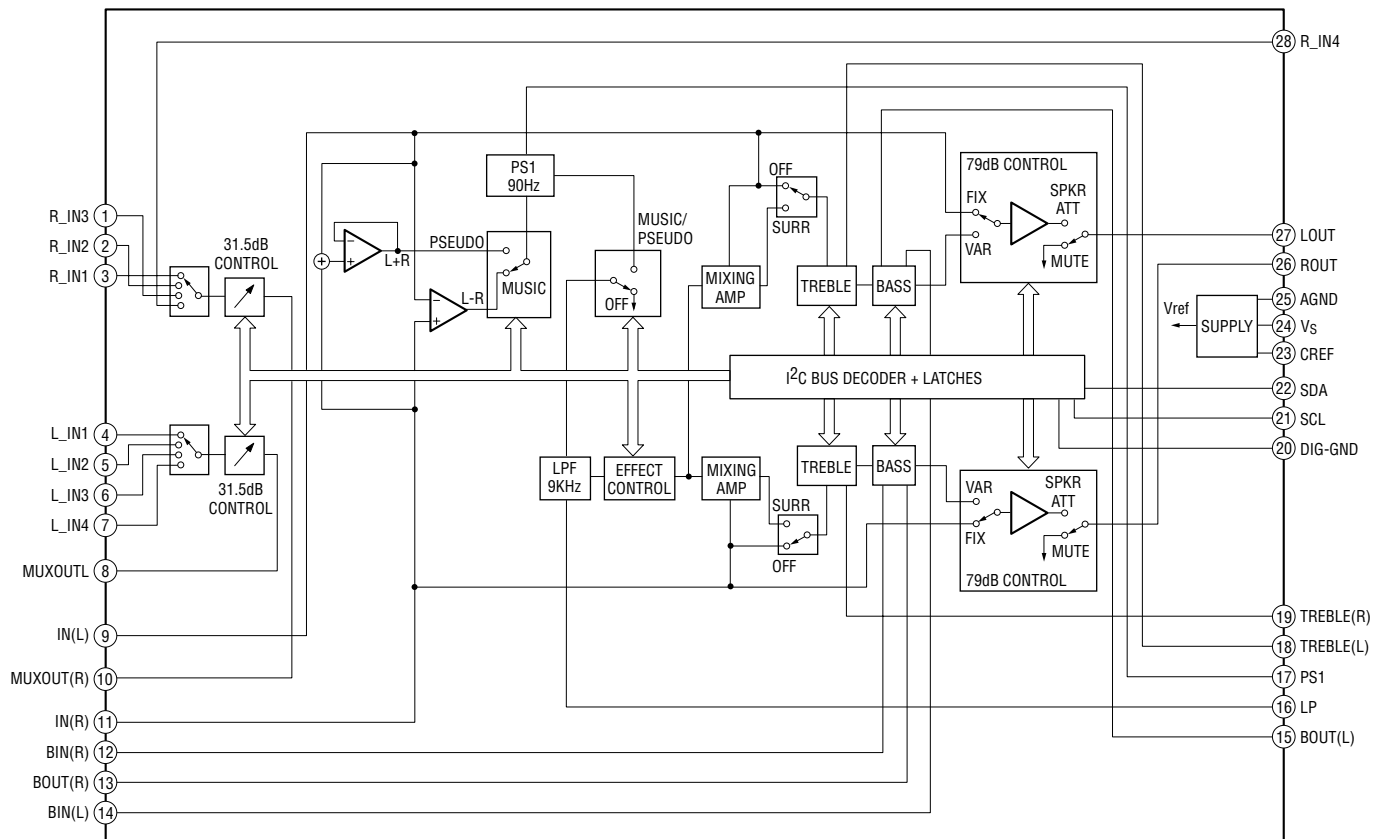
IC703 CDX2589Q (CD BOARD)



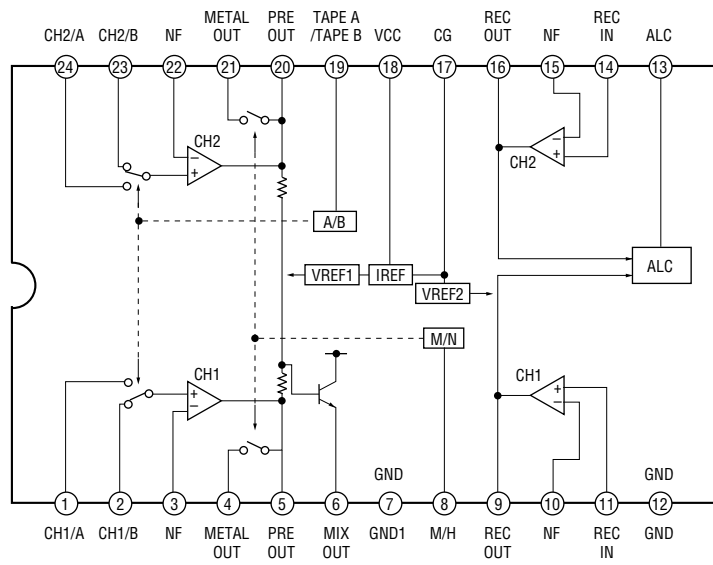
IC2 LC72137-D (MAIN BOARD)



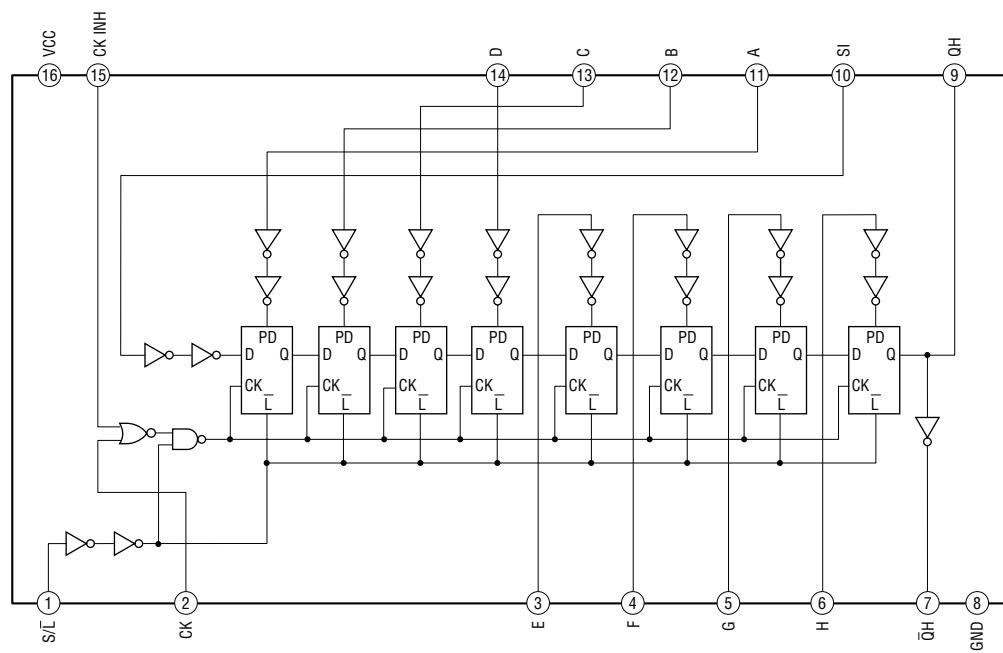
IC301 TDA7442D (MAIN BOARD)



IC305 TA8189N (MAIN BOARD)



IC306 SN74HC165AN (MAIN BOARD)



SECTION 6 EXPLODED VIEWS

NOTE:

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

• Color Indication of Appearance Parts

Example :

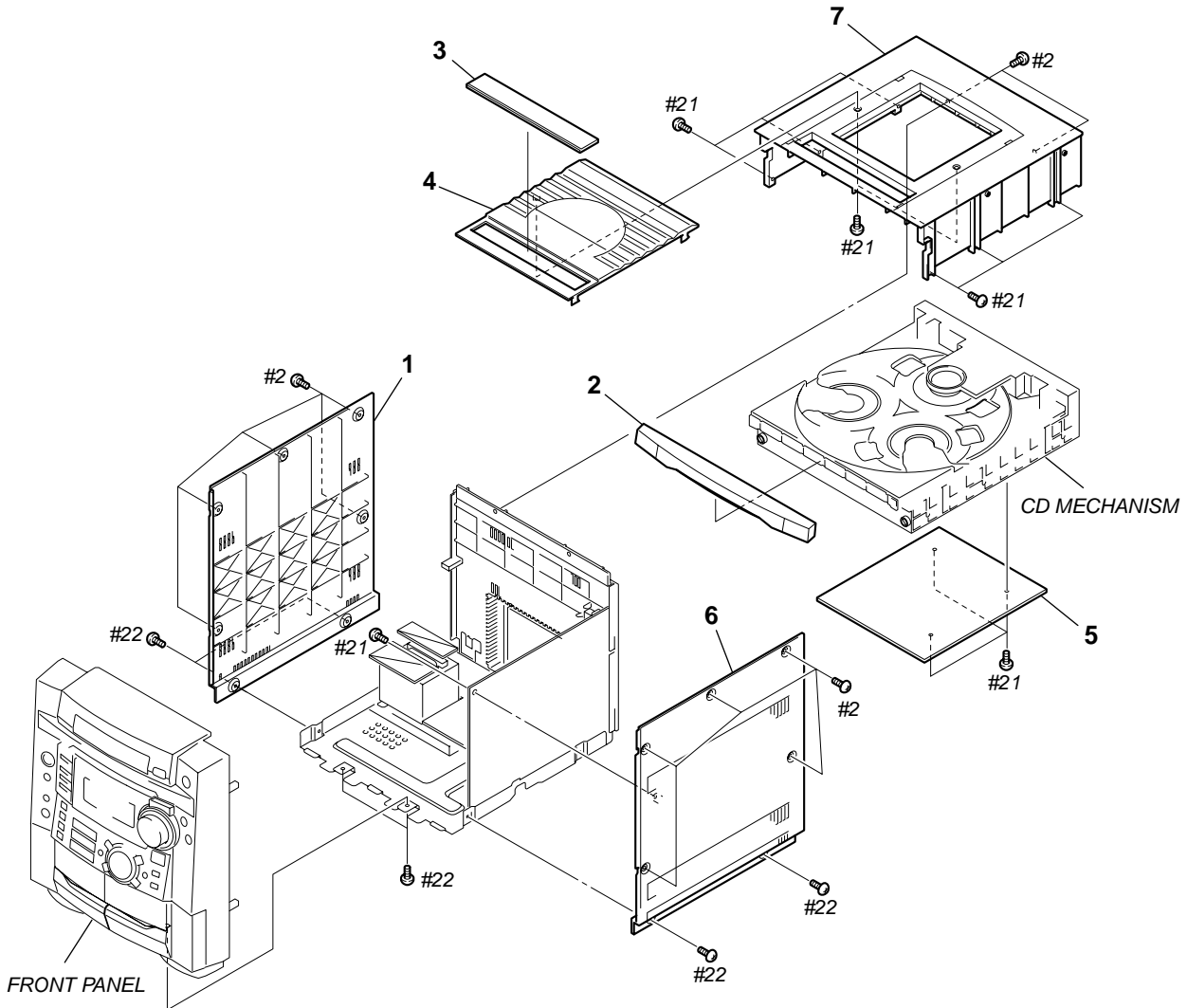
 KNOB, BALANCE (WHITE) ... (RED)

 ↑ ↑
 Parts Color Cabinet's Color

- Accessories and packing materials and hardware (# mark) list are given in the last of this parts list.

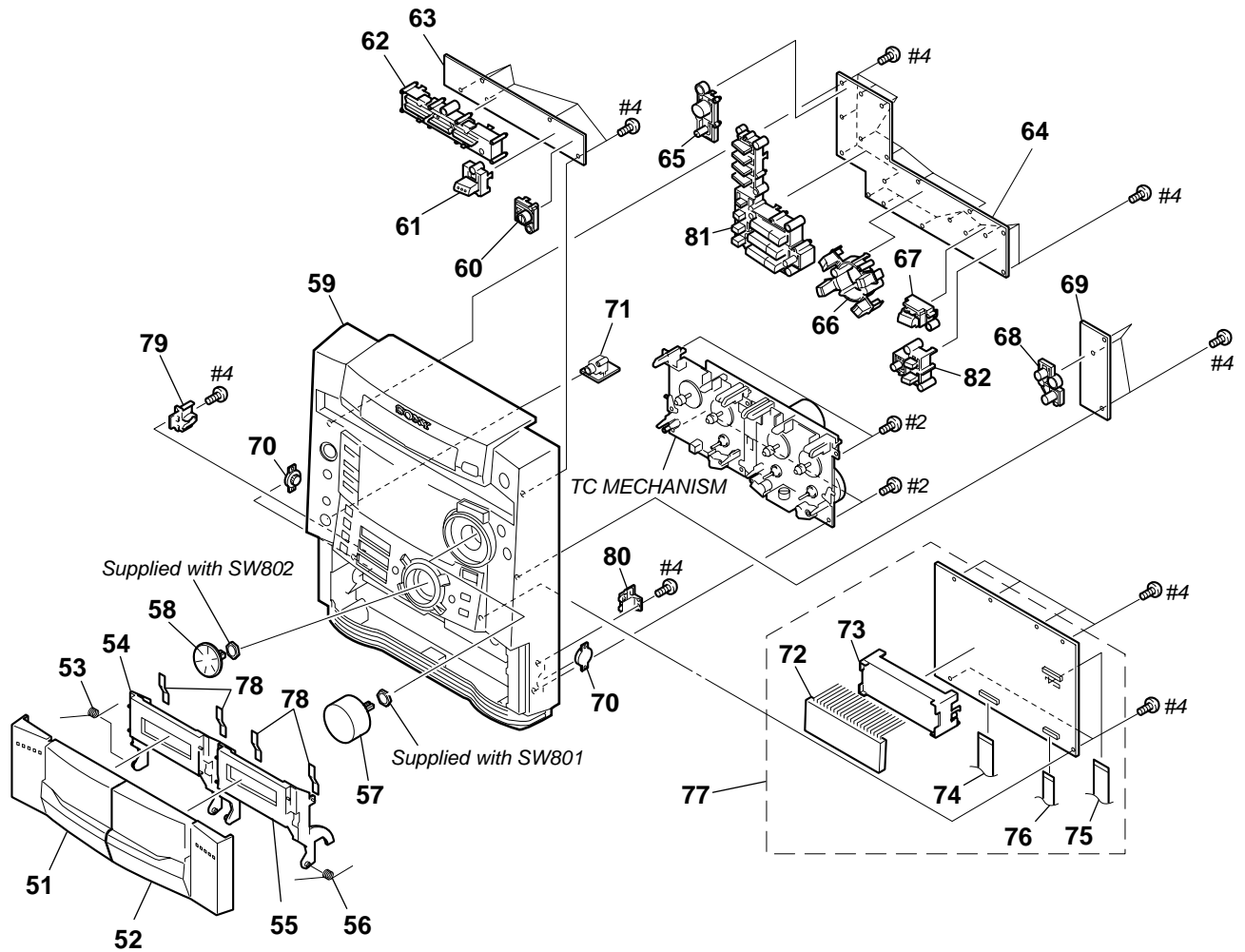
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

6-1. CABINET SECTION



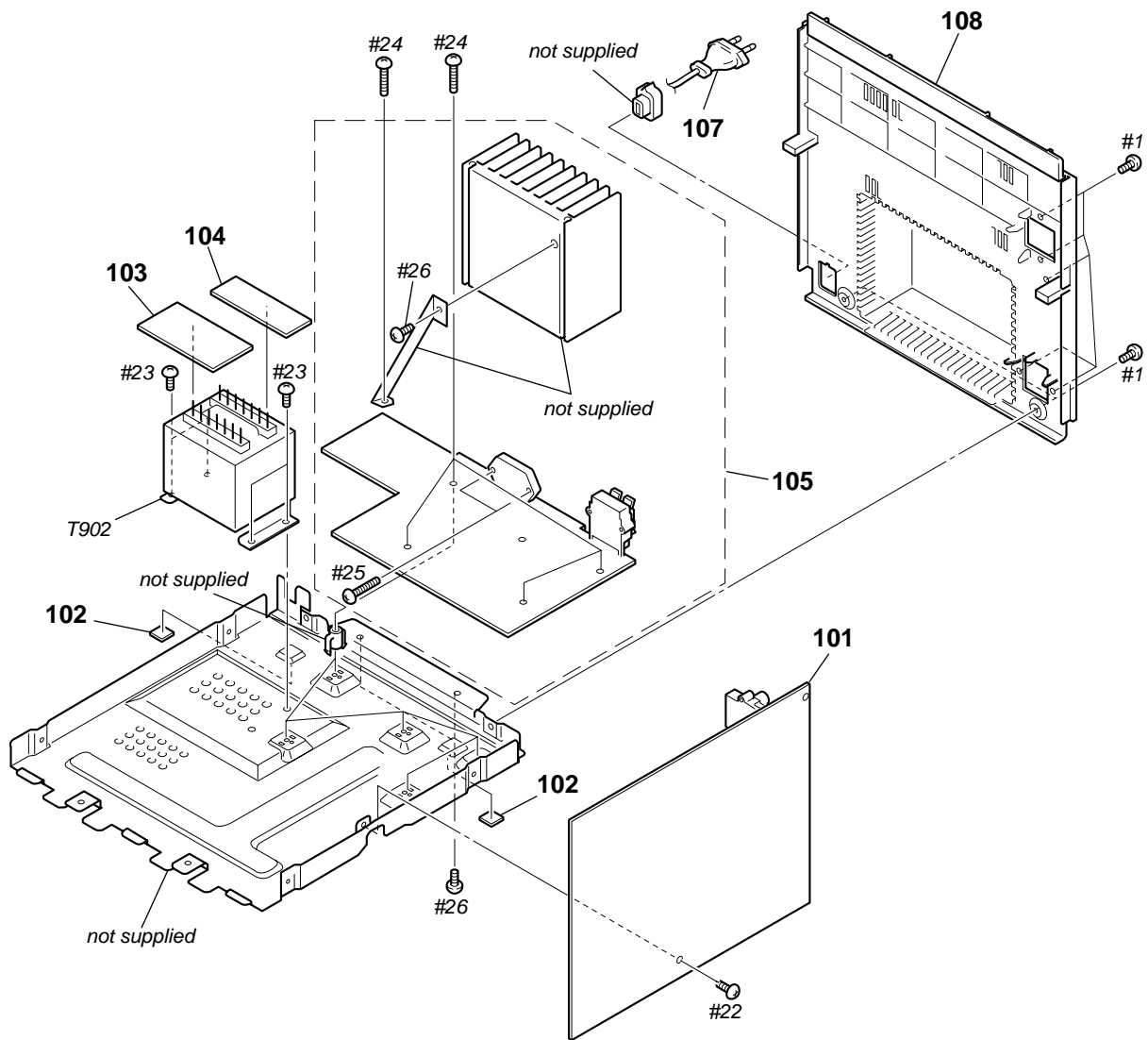
Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
1	3-049-109-01	PLATE(L), SIDE		*	5	A-3323-548-A	CD BOARD, COMPLETE
2	3-049-101-01	DOOR, CD		6	3-049-110-01	PLATE(R), SIDE	
3	3-049-113-01	LENS, DISC		7	3-221-490-01	CASE, TOP	
4	3-049-112-01	CABINET, TOP					

6-2. FRONT CABINET SECTION



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
51	X-3378-985-1	DOOR (A) ASSY, CASSETTE		67	3-049-169-01	BUTTON, MEGA	
52	X-3378-986-1	DOOR (B) ASSY, CASSETTE		68	3-049-170-01	BUTTON, SOUND	
53	3-049-176-01	SPRING (L), CASSETTE		* 69	1-678-295-11	KEY (B) BOARD	
54	3-049-173-01	HOLDER (L), CASSETTE		70	3-049-175-01	DAMPER	
55	3-049-174-01	HOLDER (R), CASSETTE		* 71	1-678-293-11	HEADPHONE BOARD	
56	3-049-172-01	SPRING (R), CASSETTE		72	1-517-967-11	INDICATOR TUBE, FLUORESCENT	
57	3-049-098-01	BUTTON, VOL		73	3-049-171-01	HOLDER, DISPLAY	
58	3-049-099-01	BUTTON, JOG		* 74	1-757-635-11	FFC24P	
59	X-4953-336-1	CABINET ASSY, FRONT		* 75	1-792-934-11	FFC18P	
60	3-049-178-01	BUTTON, OPEN		* 76	1-792-905-11	FFC11P	
61	3-049-179-01	BUTTON, DISC CHANGE		* 77	A-4424-985-A	DISPLAY BOARD, COMPLETE	
62	3-049-177-01	HOLDER, LED		78	3-221-598-01	SPRING, CASSETTE DETENT	
* 63	1-678-286-11	LED BOARD		79	3-221-596-01	CAM(L), S/E	
* 64	A-4475-495-A	KEY (A) BOARD, COMPLETE		80	3-221-597-01	CAM(R), S/E	
65	3-049-166-01	BUTTON, POWER		81	3-049-167-01	BUTTON, FUNCTION	
66	3-049-168-01	BUTTON, TUNING		82	3-221-724-01	BUTTON, MODE	

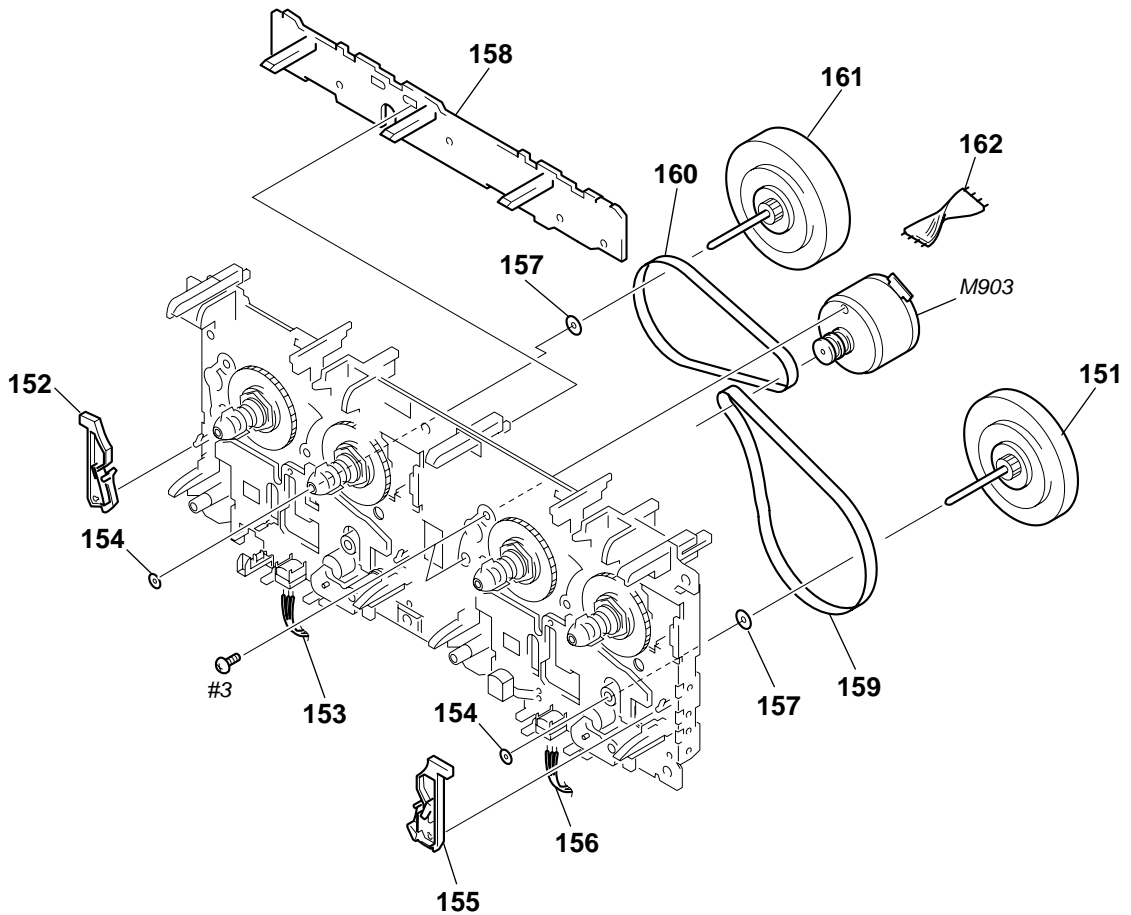
6-3. REAR CABINET SECTION



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
* 101	A-4475-956-A	MAIN BOARD, COMPLETE		* 105	A-4440-134-A	AMPLIFIER BOARD, COMPLETE	
102	3-049-100-01	FOOT, RUBBER		△ 107	1-777-071-21	CORD, POWER	
* 103	1-680-338-11	POWER (B) BOARD		108	4-231-843-01	CABINET, REAR	
* 104	1-678-290-11	POWER (A) BOARD		△ T902	1-435-822-11	TRANSFORMER, POWER	

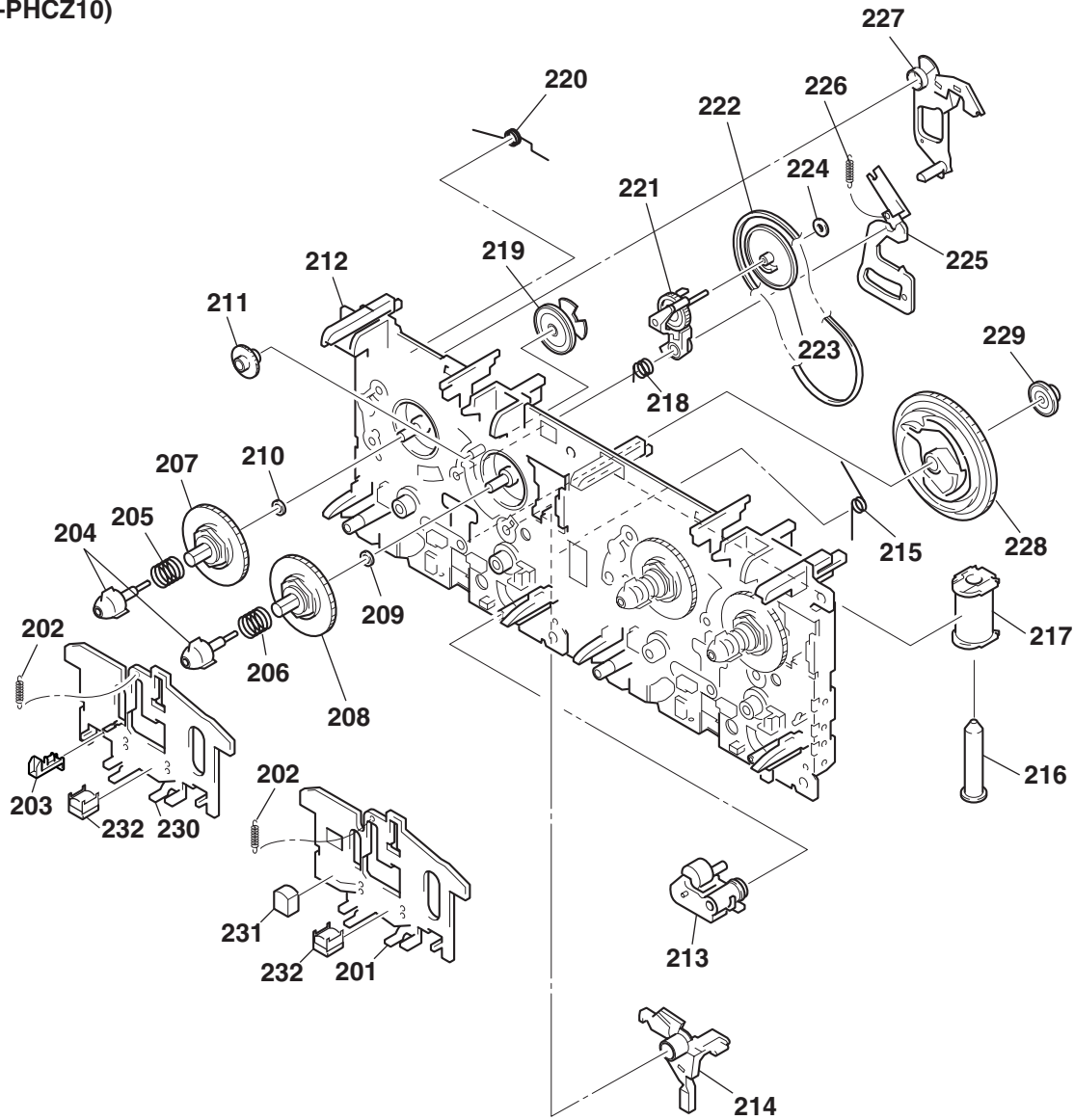
The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

**6-4. TAPE MECHANISM DECK SECTION-1
(MF-PHCZ10)**



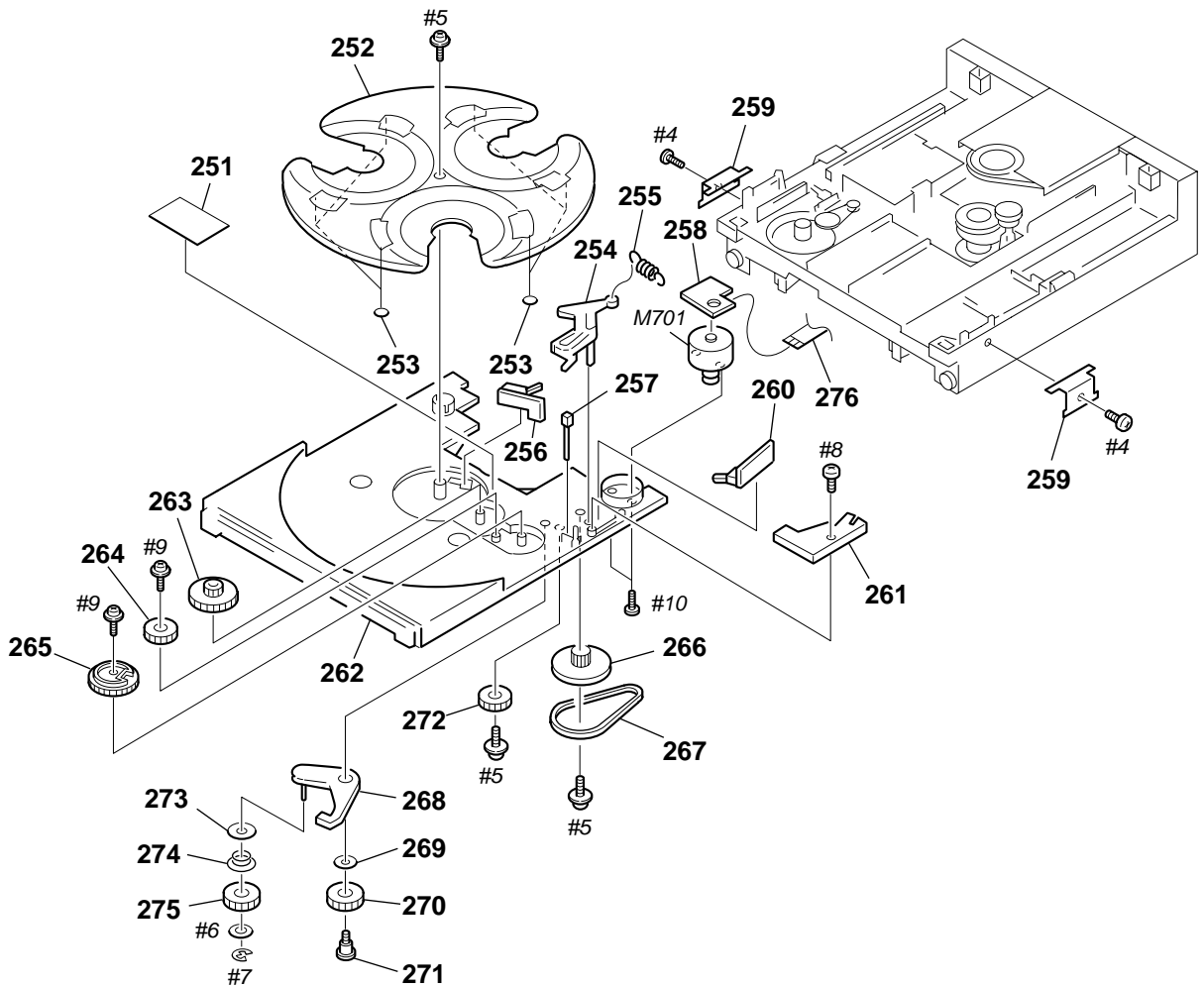
<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remarks</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remarks</u>
151	3-049-085-01	FLYWHEEL (B)		158	3-049-401-01	BLOCK, CONTROL PC BOARD	
152	3-049-404-01	ARM(L)		159	3-049-411-01	BELT (B), MAIN	
153	1-792-931-11	LEAD, HEAD (B)		160	3-049-083-01	BELT (B), MAIN	
154	3-701-436-21	WASHER, POLYETHYLENE		161	3-049-086-01	FLYWHEEL (A)	
155	3-049-403-01	ARM(R)		162	1-792-932-11	LEAD, MOTOR	
156	1-792-930-11	LEAD, HEAD (A)		M903	X-3379-169-1	MOTOR ASSY (CAPSTAN)	
157	3-701-438-11	WASHER, 2.5					

**6-5. TAPE MECHANISM DECK SECTION-2
(MF-PHCZ10)**



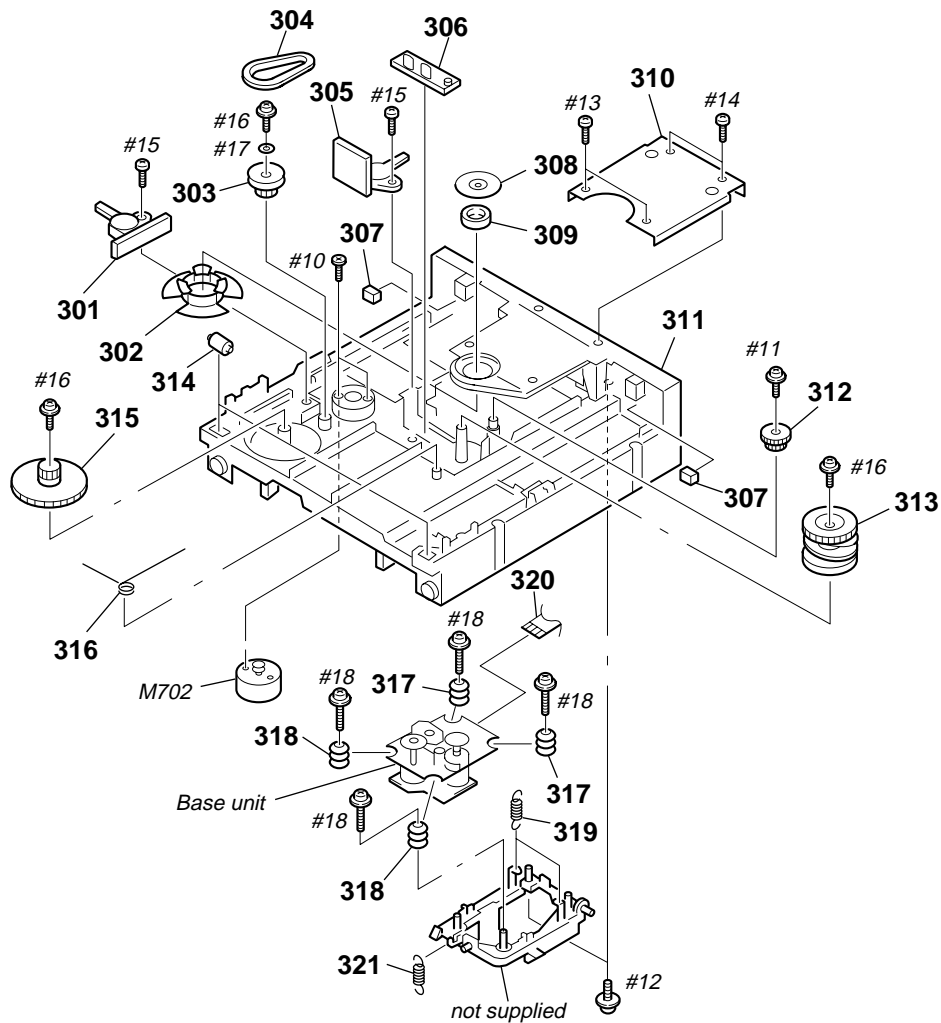
Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
201	3-049-400-01	BLOCK (B), HEAD PC BOARD (DECK B)		217	1-454-970-11	SOLENOID	
202	3-049-094-01	SPRING, TENSION		218	3-049-409-01	SPRING, CAM	
203	3-049-417-01	GUIDE, TAPE		219	4-233-125-01	PULLEY, SENSOR	
204	3-049-089-01	CLAW, REEL		220	3-049-405-01	SPRING, B/C	
205	3-049-092-01	SPRING, COMPRESSION		221	3-049-402-01	BLOCK, CLUTCH	
206	3-049-095-01	SPRING, COMPRESSION		222	3-049-084-01	BELT, F/R	
207	3-049-090-01	TABLE (L), RELL		223	3-049-413-01	PULLEY, F/R	
208	3-049-091-01	TABLE (R), RELL		224	3-701-436-01	WASHER, 1.6	
209	3-701-441-11	WASHER		225	3-049-412-01	LEVER, F/R	
210	3-701-441-01	WASHER		226	3-049-406-01	SPRING, ARM (F/R)	
211	3-049-410-01	GEAR (A), PLAY		227	3-049-415-01	LEVER, BRAKE	
212	3-227-629-01	CHASSIS		228	4-233-124-01	GEAR, CAM	
213	3-049-088-01	BLOCK, PINCH ROLLER		229	3-049-414-01	BUSHING	
214	3-049-407-01	ARM, PLAY		230	3-049-399-01	BLOCK (A), HEAD BOARD (DECK A)	
215	3-049-408-01	SPRING, PLAY ARM		231	1-500-673-11	HEAD, ERASE	
216	3-049-416-01	SOLENOID		232	1-500-672-11	HEAD, R/P	

6-6. CD CHANGER SECTION-1



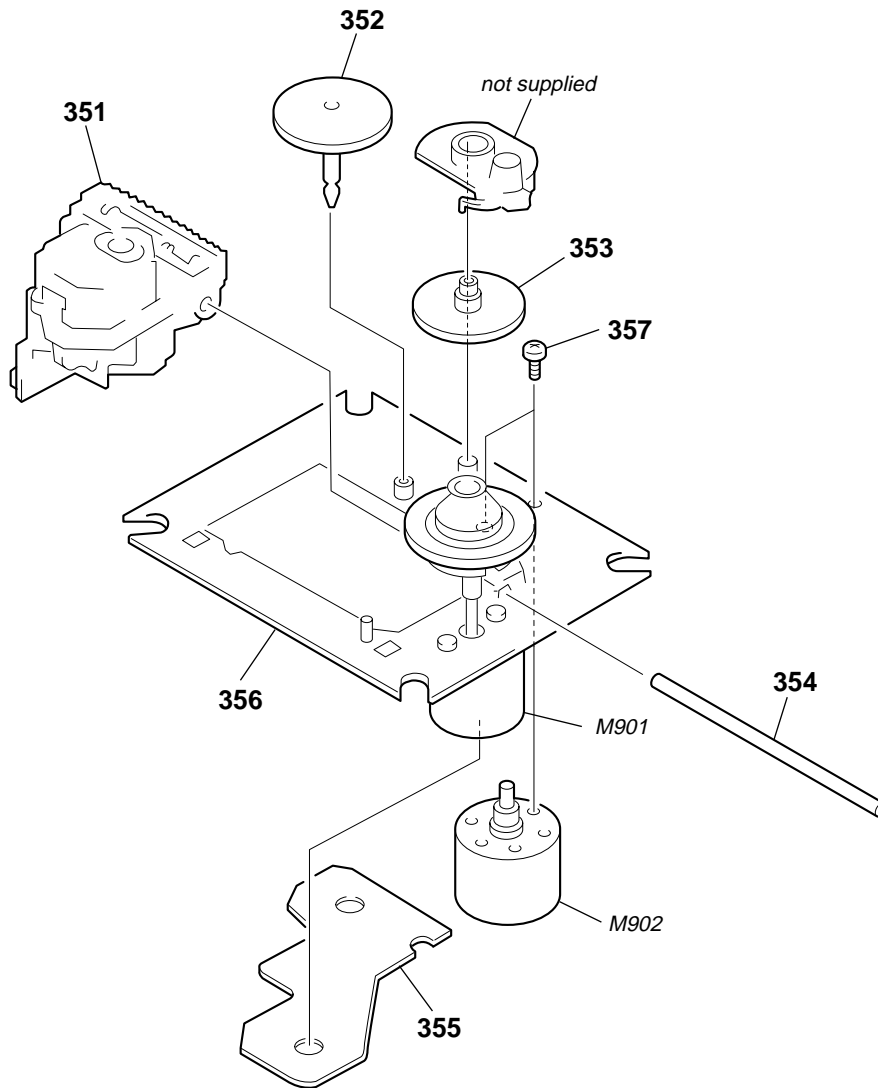
Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
251	3-049-141-01	SHEET, BLIND		265	3-049-139-01	GEAR, TRAY LOCK	
252	3-049-115-01	TURN TABLE		266	3-049-133-01	PULLEY, GEAR	
253	3-049-116-01	CUSHION, SPACER		267	3-049-132-01	BELT, LOADING	
254	3-049-142-01	LEVER, SENSOR SWITCH		268	3-049-146-01	PLATE, CHANGE	
255	3-049-143-01	SPRING, SENSOR SWITCH LEVER		269	3-049-147-01	WASHER, SPECIAL	
* 256	1-678-576-11	DISC COUNT SW BOARD		270	3-049-135-01	GEAR (B), RELAY	
257	3-049-148-01	CUSHION, SWITCH LEVER		271	3-049-145-01	SCREW, SPECIAL	
* 258	1-678-577-11	MOTOR BOARD		272	3-049-134-01	GEAR (A), RELAY	
259	3-049-114-01	GUIDE, RAIL		273	3-049-144-01	WASHER, SPECIAL POLYETHYLENE	
* 260	1-678-575-11	DISC STOP SW BOARD		274	3-049-138-01	SPRING, CHANGE GEAR	
261	3-049-149-01	PLATE, TURN TABLE RETAINER		275	3-049-137-01	GEAR, CHANGE	
262	3-049-130-01	BASE, CHANGER		276	1-792-880-11	FFC5P	
263	3-049-140-01	GEAR, TRAY		M701	X-3379-172-1	MOTOR ASSY (DISC MOTOR)	
264	3-049-136-01	GEAR (C), RELAY					

6-7. CD CHANGER SECTION-2



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
* 301	1-678-573-11	O/C SW BOARD		312	3-049-118-01	GEAR, U/D DECELERATION	
302	3-049-121-01	HOLDER, MAGNET		313	3-049-117-01	CAM, U/D	
303	3-049-125-01	PULLEY (B), GEAR		314	3-049-127-01	ROLLER	
304	3-049-124-01	BELT, LOADING GEAR		315	3-049-126-01	GEAR, SLIDE	
* 305	1-678-574-11	LOAD SW BOARD		316	3-049-119-01	SPRING, CAM BRAKE	
306	3-049-120-01	LEVER, SWITCH		317	3-049-161-01	DAMPER (B)	
307	3-049-163-01	CUSHION		318	3-049-160-01	DAMPER (A)	
308	3-049-129-01	COVER, MAGNET		319	3-049-162-01	SPRING, MECHANICAL BASE	
309	3-049-122-01	MAGNET		320	1-792-881-11	FFC(16 CORE)	
310	3-049-128-01	BRACKET, MAIN CHASSIS		321	4-231-428-01	SPRING (A), MECHANICAL BASE	
311	3-049-123-01	CHASSIS, MAIN		M702	X-3379-171-1	MOTOR ASSY (TRAY MOTOR)	

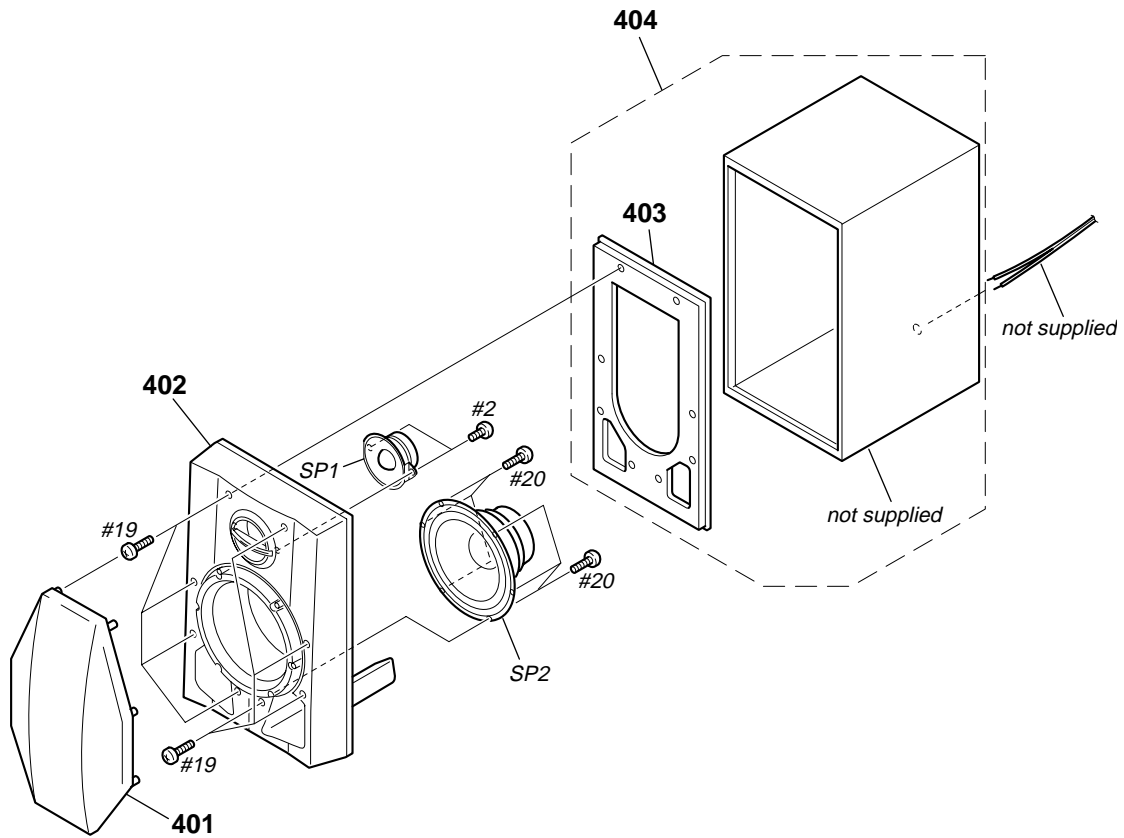
**6-8. OPTICAL PICK-UP SECTION
(KSM-213CCM)**



<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remarks</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remarks</u>
△ 351	8-848-492-18	OPTICAL PICK-UP KSM-213CCM		356	X-2625-877-1	CHASSIS ASSY (MB), MOTOR (SPINDLE)(including M901)	
352	2-625-188-02	GEAR (A)		357	3-713-786-51	SCREW +P 2X3	
353	2-627-003-02	GEAR (B) (RP)		M902	X-2625-769-1	GEAR ASSY (MB),MOTOR (SLED)	
354	2-626-908-01	SHAFT, SLED					
355	1-639-678-12	CD MOTOR BOARD					

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

6-9. SPEAKER SECTION



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
401	X-3378-988-1	GRILLE ASSY		SP1	1-529-730-11	SPEAKER (1) (5cm)	
402	3-049-150-01	CABINET, SPEAKER (FRONT)		SP2	1-529-731-11	SPEAKER (2) (13cm)	
403	3-049-153-01	BOARD, BAFFLE					
404	X-3379-237-1	CABINET ASSY, WOOD					

SECTION 7 ELECTRICAL PARTS LIST

AMPLIFIER

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- **CAPACITORS:**
uF: μF
- **RESISTORS**
All resistors are in ohms.
METAL: metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F: nonflammable
- **COILS**
uH: μH

- **SEMICONDUCTORS**
In each case, u: μ, for example:
uA...: μA..., uPA..., μPA...,
uPB..., μPB..., uPC..., μPC...,
uPD..., μPD...

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

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

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
*	A-4440-134-A	AMPLIFIER BOARD, COMPLETE *****		C936	1-126-965-11	ELECT 22uF	20.00% 50V
				C937	1-162-306-11	CERAMIC 0.01uF	30.00% 16V
				C938	1-126-965-11	ELECT 22uF	20.00% 50V
				C940	1-126-963-11	ELECT 4.7uF	20.00% 50V
				C990	1-162-306-11	CERAMIC 0.01uF	30.00% 16V
		< CAPACITOR >				< CONNECTOR >	
				CNP903	1-564-321-00	PIN, CONNECTOR 2P	
				* CNP907	1-794-725-11	CONNECTOR (VERTICAL) 4P	
				* CNP908	1-794-720-11	CONNECTOR, WIRE TRAP 4P	
				* CNP909	1-794-717-11	CONNECTOR, FFC (VERTICAL) 11P	
				* CNP910	1-794-721-11	CONNECTOR, WIRE TRAP 5P	
						< DIODE >	
				* CNP904	1-794-720-11	CONNECTOR, WIRE TRAP 4P	
				* CNP904	1-794-721-11	CONNECTOR, WIRE TRAP 5P	
C120	1-162-286-21	CERAMIC 220PF	10.00% 50V	D101	8-719-991-33	DIODE 1SS133T-77	
C121	1-126-967-11	ELECT 47uF	20.00% 50V	D201	8-719-991-33	DIODE 1SS133T-77	
C122	1-130-486-00	MYLAR 0.018uF	10% 50V	D901	8-719-991-33	DIODE 1SS133T-77	
C123	1-162-199-31	CERAMIC 10PF	5% 50V	D902	8-719-081-12	DIODE TS6B02G	
C124	1-126-968-11	ELECT 100uF	20.00% 50V	D903	8-719-991-33	DIODE 1SS133T-77	
C125	1-130-495-00	MYLAR 0.1uF	5% 50V	D904	8-719-991-33	DIODE 1SS133T-77	
C126	1-130-495-00	MYLAR 0.1uF	5% 50V	D910	8-719-200-02	DIODE 10E2	
C127	1-126-963-11	ELECT 4.7uF	20.00% 50V	D911	8-719-200-02	DIODE 10E2	
C129	1-162-306-11	CERAMIC 0.01uF	30.00% 16V	D912	8-719-200-02	DIODE 10E2	
C220	1-162-286-21	CERAMIC 220PF	10.00% 50V	D913	8-719-200-02	DIODE 10E2	
C221	1-126-967-11	ELECT 47uF	20.00% 50V	D914	8-719-109-89	DIODE RD5.6ESB2	
C222	1-130-486-00	MYLAR 0.018uF	10% 50V	D915	8-719-110-08	DIODE RD8.2ES-B2	
C223	1-162-199-31	CERAMIC 10PF	5% 50V	D916	8-719-110-31	DIODE RD12ES-B2	
C224	1-126-968-11	ELECT 100uF	20.00% 50V	D917	8-719-923-83	DIODE MTZJ-T-77-13A	
C225	1-130-495-00	MYLAR 0.1uF	5% 50V	D918	8-719-110-14	DIODE RD9.1ES-B3	
C226	1-130-495-00	MYLAR 0.1uF	5% 50V	D919	8-719-991-33	DIODE 1SS133T-77	
C227	1-126-963-11	ELECT 4.7uF	20.00% 50V	D920	8-719-991-33	DIODE 1SS133T-77	
C229	1-162-306-11	CERAMIC 0.01uF	30.00% 16V	D921	8-719-991-33	DIODE 1SS133T-77	
C901	1-164-159-21	CERAMIC 0.1uF	50V	D923	8-719-991-33	DIODE 1SS133T-77	
C902	1-164-159-21	CERAMIC 0.1uF	50V	D924	8-719-991-33	DIODE 1SS133T-77	
C903	1-164-159-21	CERAMIC 0.1uF	50V	D925	8-719-109-92	DIODE RD6.2ES-B1	
C904	1-164-159-21	CERAMIC 0.1uF	50V	D926	8-719-983-38	DIODE MTZJ-T-77-36B	
C905	1-130-493-00	MYLAR 0.068uF	5% 50V	D927	8-719-200-02	DIODE 10E2	
C906	1-126-974-11	ELECT 3300uF	20.00% 50V	D928	8-719-991-33	DIODE 1SS133T-77	
C907	1-126-974-11	ELECT 3300uF	20.00% 50V			< IC >	
C908	1-130-493-00	MYLAR 0.068uF	5% 50V	IC901	8-759-708-05	IC NJM78L05A	
C914	1-164-159-21	CERAMIC 0.1uF	50V	IC902	8-749-016-93	IC IC STK402-070S	
C915	1-164-159-21	CERAMIC 0.1uF	50V			< JACK >	
C916	1-124-480-11	ELECT 470uF	20% 25V				
C917	1-164-159-21	CERAMIC 0.1uF	50V	J902	1-794-566-11	JACK, SPEAKER (RED)(SPEAKER)	
C918	1-164-159-21	CERAMIC 0.1uF	50V				
C919	1-104-665-11	ELECT 100uF	20.00% 10V				
C920	1-126-964-11	ELECT 10uF	20.00% 50V				
C929	1-126-786-11	ELECT 47uF	20.00% 16V				
C930	1-124-903-11	ELECT 1uF	20.00% 50V				
C931	1-126-233-11	ELECT 22uF	20% 50V				
C932	1-126-964-11	ELECT 10uF	20.00% 50V				
C933	1-128-552-11	ELECT 47uF	20.00% 63V				
C934	1-126-963-11	ELECT 4.7uF	20.00% 50V				
C935	1-126-964-11	ELECT 10uF	20.00% 50V				

AMPLIFIER

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
		< COIL >					
L901	1-419-789-11	COIL, SPRING		△R233	1-212-895-00	FUSIBLE	390 5% 1/4W
L902	1-419-789-11	COIL, SPRING		R234	1-249-429-11	CARBON	10K 5% 1/4W
		< TRANSISTOR >		R235	1-249-429-11	CARBON	10K 5% 1/4W
Q103	8-729-922-37	TRANSISTOR	2SD2144S	R236	1-249-417-11	CARBON	1K 5% 1/4W F
Q104	8-729-119-76	TRANSISTOR	2SA1175-HFE	R237	1-249-433-11	CARBON	22K 5% 1/4W
Q105	8-729-922-37	TRANSISTOR	2SD2144S				
Q106	8-729-922-37	TRANSISTOR	2SD2144S	R238	1-249-417-11	CARBON	1K 5% 1/4W F
Q203	8-729-922-37	TRANSISTOR	2SD2144S	R239	1-249-437-11	CARBON	47K 5% 1/4W
Q204	8-729-119-76	TRANSISTOR	2SA1175-HFE	R240	1-249-429-11	CARBON	10K 5% 1/4W
Q205	8-729-922-37	TRANSISTOR	2SD2144S	R241	1-249-416-11	CARBON	820 5% 1/4W F
Q206	8-729-922-37	TRANSISTOR	2SD2144S	R243	1-249-437-11	CARBON	47K 5% 1/4W
Q901	8-729-119-78	TRANSISTOR	2SC403SP-51				
Q902	8-729-119-76	TRANSISTOR	2SA1175-HFE	R243	1-249-440-11	CARBON	82K 5% 1/4W
Q903	8-729-029-66	TRANSISTOR	DTC114ESA	R244	1-249-419-11	CARBON	1.5K 5% 1/4W F
Q904	8-729-119-78	TRANSISTOR	2SC403SP-51	R245	1-220-755-11	METAL	0.22 10% 2W
Q908	8-729-904-34	TRANSISTOR	DTA114TS	R246	1-220-755-11	METAL	0.22 10% 2W
Q915	8-729-422-57	TRANSISTOR	UN4111	R250	1-249-437-11	CARBON	47K 5% 1/4W
Q916	8-729-422-57	TRANSISTOR	UN4111				
Q917	8-729-119-78	TRANSISTOR	2SC403SP-51	R251	1-249-417-11	CARBON	1K 5% 1/4W F
Q918	8-729-119-78	TRANSISTOR	2SC403SP-51	△R901	1-202-725-00	SOLID	3.3M 10% 1/2W
Q919	8-729-119-78	TRANSISTOR	2SC403SP-51	R908	1-249-429-11	CARBON	10K 5% 1/4W
Q920	8-729-194-57	TRANSISTOR	2SC945-P	R910	1-249-413-11	CARBON	470 5% 1/4W F
Q921	8-729-029-66	TRANSISTOR	DTC114ESA	R911	1-249-441-11	CARBON	100K 5% 1/4W
Q922	8-729-029-66	TRANSISTOR	DTC114ESA				
Q923	8-729-993-43	TRANSISTOR	2SA934R	R912	1-249-433-11	CARBON	22K 5% 1/4W
		< RESISTOR >		R913	1-249-437-11	CARBON	47K 5% 1/4W
R119	1-249-429-11	CARBON	10K	5%	1/4W		
R130	1-247-791-91	CARBON	22	5%	1/4W		
R131	1-247-791-91	CARBON	22	5%	1/4W		
△R132	1-212-895-00	FUSIBLE	390	5%	1/4W		
△R133	1-212-895-00	FUSIBLE	390	5%	1/4W		
R134	1-249-429-11	CARBON	10K	5%	1/4W		
R135	1-249-429-11	CARBON	10K	5%	1/4W		
R136	1-249-417-11	CARBON	1K	5%	1/4W	F	
R137	1-249-433-11	CARBON	22K	5%	1/4W	F	
R138	1-249-417-11	CARBON	1K	5%	1/4W	F	
R139	1-249-437-11	CARBON	47K	5%	1/4W		
R140	1-249-429-11	CARBON	10K	5%	1/4W		
R141	1-249-416-11	CARBON	820	5%	1/4W	F	
R143	1-249-437-11	CARBON	47K	5%	1/4W		
R143	1-249-440-11	CARBON	82K	5%	1/4W		
R144	1-249-419-11	CARBON	1.5K	5%	1/4W	F	
R145	1-220-755-11	METAL	0.22	10%	2W		
R146	1-220-755-11	METAL	0.22	10%	2W		
△R147	1-212-881-11	FUSIBLE	100	5%	1/4W		
R150	1-249-437-11	CARBON	47K	5%	1/4W		
R151	1-249-417-11	CARBON	1K	5%	1/4W	F	
R219	1-249-429-11	CARBON	10K	5%	1/4W		
R230	1-247-791-91	CARBON	22	5%	1/4W		
R231	1-247-791-91	CARBON	22	5%	1/4W		
△R232	1-212-895-00	FUSIBLE	390	5%	1/4W		
		< RELAY >					
		< TRANSFORMER >					
		TRANSFORMER, POWER					

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

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
*	A-3323-548-A	CD BOARD, COMPLETE *****		C762	1-162-282-31	CERAMIC	100PF 10% 50V
		< CAPACITOR >		C763	1-162-290-31	CERAMIC	470PF 10% 50V
C701	1-162-600-11	CERAMIC	0.0047uF 20.00% 16V	C764	1-162-199-31	CERAMIC	10PF 5% 50V
C702	1-162-306-11	CERAMIC	0.01uF 30.00% 16V	C765	1-162-286-21	CERAMIC	220PF 10.00% 50V
C703	1-130-481-00	MYLAR	0.0068uF 5% 50V	C766	1-162-306-11	CERAMIC	0.01uF 30.00% 16V
C704	1-130-491-00	MYLAR	0.047uF 5% 50V	C767	1-126-963-11	ELECT	4.7uF 20.00% 50V
C705	1-162-306-11	CERAMIC	0.01uF 30.00% 16V	C768	1-162-306-11	CERAMIC	0.01uF 30.00% 16V
C706	1-104-664-11	ELECT	47uF 20.00% 10V	C769	1-136-169-00	MYLAR	0.22uF 5.00% 50V
C707	1-161-494-00	CERAMIC	0.022uF 25V	C770	1-126-963-11	ELECT	4.7uF 20.00% 50V
C708	1-130-495-00	MYLAR	0.1uF 5% 50V	C772	1-162-306-11	CERAMIC	0.01uF 30.00% 16V
C709	1-164-159-21	CERAMIC	0.1uF 50V	C773	1-104-665-11	ELECT	100uF 20.00% 10V
C710	1-162-302-11	CERAMIC	0.0022uF 20.00% 16V	C774	1-162-306-11	CERAMIC	0.01uF 30.00% 16V
C711	1-162-199-31	CERAMIC	10PF 5% 50V	C775	1-162-306-11	CERAMIC	0.01uF 30.00% 16V
C712	1-162-294-31	CERAMIC	0.001uF 10% 50V	C776	1-162-306-11	CERAMIC	0.01uF 30.00% 16V
C713	1-130-495-00	MYLAR	0.1uF 5% 50V	C777	1-162-306-11	CERAMIC	0.01uF 30.00% 16V
C714	1-164-159-21	CERAMIC	0.1uF 50V	C778	1-162-292-31	CERAMIC	680PF 10% 50V
C715	1-126-233-11	ELECT	22uF 20% 50V	C779	1-162-284-31	CERAMIC	150PF 10.00% 50V
C716	1-130-495-00	MYLAR	0.1uF 5% 50V	C780	1-162-294-31	CERAMIC	0.001uF 10% 50V
C717	1-130-483-00	MYLAR	0.01uF 5% 50V	C783	1-110-671-31	CERAMIC	47000PF 50V
C718	1-126-964-11	ELECT	10uF 20.00% 50V	C784	1-162-306-11	CERAMIC	0.01uF 30.00% 16V
C719	1-104-664-11	ELECT	47uF 20.00% 10V	C785	1-162-294-31	CERAMIC	0.001uF 10% 50V
C720	1-130-483-00	MYLAR	0.01uF 5% 50V	C786	1-162-306-11	CERAMIC	0.01uF 30.00% 16V
C721	1-130-489-00	MYLAR	0.033uF 5% 50V	C787	1-162-306-11	CERAMIC	0.01uF 30.00% 16V
C722	1-130-489-00	MYLAR	0.033uF 5% 50V	C788	1-162-306-11	CERAMIC	0.01uF 30.00% 16V
C723	1-162-306-11	CERAMIC	0.01uF 30.00% 16V	C790	1-162-286-21	CERAMIC	220PF 10.00% 50V
C724	1-130-489-00	MYLAR	0.033uF 5% 50V	C791	1-162-286-21	CERAMIC	220PF 10.00% 50V
C725	1-130-486-00	MYLAR	0.018uF 10% 50V	C792	1-162-286-21	CERAMIC	220PF 10.00% 50V
C726	1-164-159-21	CERAMIC	0.1uF 50V	C793	1-164-159-21	CERAMIC	0.1uF 50V
C727	1-162-199-31	CERAMIC	10PF 5% 50V	C794	1-126-935-11	ELECT	470uF 20.00% 10V
C728	1-104-664-11	ELECT	47uF 20.00% 10V	C795	1-164-159-21	CERAMIC	0.1uF 50V
C729	1-126-962-11	ELECT	3.3uF 20.00% 50V	C796	1-126-927-11	ELECT	2200uF 20.00% 10V
C730	1-130-493-00	MYLAR	0.068uF 5% 50V			< CONNECTOR >	
C731	1-162-215-31	CERAMIC	47PF 5% 50V	CNP701	1-774-465-11	CONNECTOR, FFC/FPC 16P	
C732	1-126-964-11	ELECT	10uF 20.00% 50V	* CNP703	1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P	
C734	1-162-302-11	CERAMIC	0.0022uF 20.00% 16V	* CNP704	1-580-159-11	PIN, CONNECTOR (PC BOARD) 7P	
C737	1-162-306-11	CERAMIC	0.01uF 30.00% 16V	* CNP705	1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P	
C738	1-162-282-31	CERAMIC	100PF 10% 50V	CNP706	1-784-740-11	CONNECTOR, FFC 18P	
C739	1-162-282-31	CERAMIC	100PF 10% 50V	CNP707	1-784-727-11	CONNECTOR, FFC 5P	
C740	1-162-215-31	CERAMIC	47PF 5% 50V			< DIODE >	
C741	1-126-942-61	ELECT	1000uF 20.00% 16V	D701	8-719-991-33	DIODE 1SS133T-77	
C742	1-162-306-11	CERAMIC	0.01uF 30.00% 16V			< FERRITE BEAD >	
C743	1-104-664-11	ELECT	47uF 20.00% 10V	FB701	1-410-397-21	FERRITE BEAD INDUCTOR	
C745	1-104-665-11	ELECT	100uF 20.00% 10V	FB702	1-410-397-21	FERRITE BEAD INDUCTOR	
C748	1-162-294-31	CERAMIC	0.001uF 10% 50V			< IC >	
C749	1-161-057-00	CERAMIC	0.033uF 10% 50V	IC701	8-752-082-14	IC CXA1992BR	
C750	1-162-215-31	CERAMIC	47PF 5% 50V	IC702	8-759-579-80	IC BA5936S	
C751	1-162-600-11	CERAMIC	0.0047uF 20.00% 16V	IC703	8-752-384-13	IC CXD2589Q	
C752	1-162-306-11	CERAMIC	0.01uF 30.00% 16V	IC704	8-759-234-75	IC TC74HC4094AP	
C753	1-104-665-11	ELECT	100uF 20.00% 10V	IC705	8-759-634-51	IC M5218AP	
C754	1-162-292-31	CERAMIC	680PF 10% 50V				
C755	1-164-159-21	CERAMIC	0.1uF 50V				
C756	1-162-306-11	CERAMIC	0.01uF 30.00% 16V				
C757	1-162-284-31	CERAMIC	150PF 10.00% 50V				
C758	1-162-286-21	CERAMIC	220PF 10.00% 50V				
C759	1-104-665-11	ELECT	100uF 20.00% 10V				
C760	1-136-173-00	MYLAR	0.47uF 5.00% 50V				
C761	1-162-199-31	CERAMIC	10PF 5% 50V				

CD**DISC COUNT SW****DISC STOP SW****DISPLAY**

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
		< COIL >					
L701	1-410-509-11	INDUCTOR 10uH		R753	1-249-430-11	CARBON 12K 5%	1/4W
L702	1-410-509-11	INDUCTOR 10uH		R754	1-247-887-00	CARBON 220K 5%	1/4W
L703	1-410-397-21	FERRITE BEAD INDUCTOR		R755	1-249-429-11	CARBON 10K 5%	1/4W
L704	1-410-509-11	INDUCTOR 10uH		R756	1-247-903-00	CARBON 1M 5%	1/4W
L705	1-410-509-11	INDUCTOR 10uH		R757	1-249-417-11	CARBON 1K 5%	1/4W F
		< TRANSISTOR >		R758	1-249-437-11	CARBON 47K 5%	1/4W
Q701	8-729-037-13	TRANSISTOR KTA1271Y		R759	1-249-437-11	CARBON 47K 5%	1/4W
Q702	8-729-195-23	TRANSISTOR 2SA952		R760	1-249-437-11	CARBON 47K 5%	1/4W
		< RESISTOR >		R761	1-249-433-11	CARBON 22K 5%	1/4W
R701	1-249-441-11	CARBON 100K 5%	1/4W	R762	1-249-435-11	CARBON 33K 5%	1/4W
R702	1-249-439-11	CARBON 68K 5%	1/4W	R763	1-249-428-11	CARBON 8.2K 5%	1/4W F
R703	1-249-439-11	CARBON 68K 5%	1/4W	R764	1-249-425-11	CARBON 4.7K 5%	1/4W F
R704	1-249-439-11	CARBON 68K 5%	1/4W	R765	1-249-435-11	CARBON 33K 5%	1/4W
R705	1-249-439-11	CARBON 68K 5%	1/4W	R766	1-249-417-11	CARBON 1K 5%	1/4W F
R706	1-249-441-11	CARBON 100K 5%	1/4W	R767	1-249-417-11	CARBON 1K 5%	1/4W F
R707	1-247-887-00	CARBON 220K 5%	1/4W	R768	1-249-417-11	CARBON 1K 5%	1/4W F
R709	1-247-883-00	CARBON 150K 5%	1/4W	R769	1-249-432-11	CARBON 18K 5%	1/4W
R710	1-247-885-00	CARBON 180K 5%	1/4W	R770	1-249-432-11	CARBON 18K 5%	1/4W
R711	1-247-883-00	CARBON 150K 5%	1/4W	R771	1-249-385-11	CARBON 2.2 5%	1/6W F
R712	1-247-891-00	CARBON 330K 5%	1/4W	R772	1-249-433-11	CARBON 22K 5%	1/4W
R713	1-249-429-11	CARBON 10K 5%	1/4W	R773	1-249-433-11	CARBON 22K 5%	1/4W
R714	1-249-429-11	CARBON 10K 5%	1/4W	R774	1-249-435-11	CARBON 33K 5%	1/4W
R715	1-249-429-11	CARBON 10K 5%	1/4W	R779	1-249-433-11	CARBON 22K 5%	1/4W
R716	1-247-852-11	CARBON 7.5K 5%	1/4W	R780	1-249-413-11	CARBON 470 5%	1/4W F
R717	1-247-903-00	CARBON 1M 5%	1/4W	R781	1-249-433-11	CARBON 22K 5%	1/4W
R718	1-247-899-11	CARBON 680K 5%	1/4W	R782	1-249-413-11	CARBON 470 5%	1/4W F
R719	1-249-393-11	CARBON 10 5%	1/4W F	R783	1-249-421-11	CARBON 2.2K 5%	1/4W F
R720	1-249-431-11	CARBON 15K 5%	1/4W			< VIBRATOR >	
R721	1-249-435-11	CARBON 33K 5%	1/4W	X701	1-579-345-11	VIBRATOR, CERAMIC 16.9344MHz	
R722	1-247-886-11	CARBON 200K 5%	1/4W			*****	
R723	1-247-896-11	CARBON 510K 5%	1/4W	*	1-678-576-11	DISC COUNT SW BOARD	
R724	1-249-439-11	CARBON 68K 5%	1/4W			*****	
R725	1-247-883-00	CARBON 150K 5%	1/4W			< SWITCH >	
R726	1-247-883-00	CARBON 150K 5%	1/4W	SW703	1-771-976-11	SWITCH, LEAF (COUNT)	
R727	1-249-437-11	CARBON 47K 5%	1/4W			*****	
R728	1-247-885-00	CARBON 180K 5%	1/4W	*	1-678-575-11	DISC STOP SW BOARD	
R729	1-249-430-11	CARBON 12K 5%	1/4W			*****	
R732	1-249-417-11	CARBON 1K 5%	1/4W F	SW704	1-771-976-11	SWITCH, LEAF (STOP)	
R733	1-247-843-11	CARBON 3.3K 5%	1/4W			*****	
R734	1-249-431-11	CARBON 15K 5%	1/4W	*	A-4424-985-A	DISPLAY BOARD, COMPLETE	
R736	1-249-433-11	CARBON 22K 5%	1/4W			*****	
R737	1-249-429-11	CARBON 10K 5%	1/4W	*	1-792-905-11	FFC11P	
R741	1-249-417-11	CARBON 1K 5%	1/4W F	*	1-792-906-11	FFC23P	
R742	1-249-417-11	CARBON 1K 5%	1/4W F	*	1-792-934-11	FFC18P	
R743	1-249-430-11	CARBON 12K 5%	1/4W		3-049-171-01	HOLDER, DISPLAY	
R744	1-249-417-11	CARBON 1K 5%	1/4W F			< CAPACITOR >	
R745	1-249-417-11	CARBON 1K 5%	1/4W F	C801	1-102-518-11	CERAMIC 33PF 5.00%	50V
R746	1-249-417-11	CARBON 1K 5%	1/4W F	C802	1-162-209-31	CERAMIC 27PF 5.00%	50V
R747	1-249-428-11	CARBON 8.2K 5%	1/4W F	C803	1-102-518-11	CERAMIC 33PF 5.00%	50V
R748	1-247-890-11	CARBON 300K 5%	1/4W	C804	1-102-960-00	CERAMIC 24PF 5.00%	50V
R749	1-249-430-11	CARBON 12K 5%	1/4W	C805	1-162-306-11	CERAMIC 0.01uF 30.00%	16V
R750	1-249-430-11	CARBON 12K 5%	1/4W				
R751	1-249-430-11	CARBON 12K 5%	1/4W				
R752	1-249-430-11	CARBON 12K 5%	1/4W				

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
C806	1-162-306-11	CERAMIC	0.01uF 30.00% 16V	D806	8-719-991-33	DIODE 1SS133T-77	
C807	1-162-306-11	CERAMIC	0.01uF 30.00% 16V	D807	8-719-991-33	DIODE 1SS133T-77	
C808	1-164-159-21	CERAMIC	0.1uF 50V			< FERRITE BEAD >	
C809	1-164-159-21	CERAMIC	0.1uF 50V	FB801	1-410-397-21	FERRITE BEAD INDUCTOR	
C810	1-102-518-11	CERAMIC	33PF 5.00% 50V	FB802	1-410-397-21	FERRITE BEAD INDUCTOR	
C811	1-102-962-00	CERAMIC	30PF 5.00% 50V			< FILTER >	
C812	1-162-290-31	CERAMIC	470PF 10% 50V	FL801	1-517-967-11	INDICATOR TUBE, FLUORESCENT	
C813	1-162-306-11	CERAMIC	0.01uF 30.00% 16V			< IC >	
C814	1-162-306-11	CERAMIC	0.01uF 30.00% 16V	IC801	8-752-920-20	IC CXP82832-032Q	
C818	1-162-306-11	CERAMIC	0.01uF 30.00% 16V	IC803	8-759-688-92	IC BA3835S	
C819	1-162-306-11	CERAMIC	0.01uF 30.00% 16V	IC804	8-759-165-86	IC PST6001-T	
C820	1-162-306-11	CERAMIC	0.01uF 30.00% 16V			< COIL >	
C821	1-162-306-11	CERAMIC	0.01uF 30.00% 16V	L801	1-410-521-11	INDUCTOR 100uH	
C822	1-162-306-11	CERAMIC	0.01uF 30.00% 16V	L802	1-410-509-11	INDUCTOR 10uH	
C823	1-162-306-11	CERAMIC	0.01uF 30.00% 16V	L803	1-410-509-11	INDUCTOR 10uH	
C824	1-162-282-31	CERAMIC	100PF 10% 50V	L804	1-410-509-11	INDUCTOR 10uH	
C826	1-162-294-31	CERAMIC	0.001uF 10% 50V	L805	1-410-509-11	INDUCTOR 10uH	
C827	1-164-159-21	CERAMIC	0.1uF 50V	L806	1-410-521-11	INDUCTOR 100uH	
C828	1-126-964-11	ELECT	10uF 20.00% 50V	L807	1-410-121-11	INDUCTOR 56uH	
C829	1-162-282-31	CERAMIC	100PF 10% 50V			< TRANSISTOR >	
C830	1-162-282-31	CERAMIC	100PF 10% 50V	Q801	8-729-922-66	TRANSISTOR 2SC2410SN	
C831	1-164-159-21	CERAMIC	0.1uF 50V	Q802	8-729-922-66	TRANSISTOR 2SC2410SN	
C832	1-104-664-11	ELECT	47uF 20.00% 10V	Q803	8-729-902-80	TRANSISTOR DTA114YS	
C833	1-125-507-11	CAPACITOR	0.22F 5.5V	Q804	8-729-029-94	TRANSISTOR DTC143TSA	
C834	1-162-282-31	CERAMIC	100PF 10% 50V	Q805	8-729-029-94	TRANSISTOR DTC143TSA	
C835	1-162-294-31	CERAMIC	0.001uF 10% 50V	Q806	8-729-029-94	TRANSISTOR DTC143TSA	
C836	1-164-159-21	CERAMIC	0.1uF 50V	Q807	8-729-230-45	TRANSISTOR 2SC2458-YGR	
C837	1-104-664-11	ELECT	47uF 20.00% 10V			< RESISTOR >	
C838	1-164-159-21	CERAMIC	0.1uF 50V	R1	1-249-429-11	CARBON 10K 5% 1/4W	
C839	1-164-159-21	CERAMIC	0.1uF 50V	R2	1-249-429-11	CARBON 10K 5% 1/4W	
C840	1-164-159-21	CERAMIC	0.1uF 50V	R3	1-249-429-11	CARBON 10K 5% 1/4W	
C841	1-164-159-21	CERAMIC	0.1uF 50V	R4	1-249-429-11	CARBON 10K 5% 1/4W	
C842	1-126-965-11	ELECT	22uF 20.00% 50V	R8	1-249-429-11	CARBON 10K 5% 1/4W	
C843	1-126-965-11	ELECT	22uF 20.00% 50V	R9	1-249-429-11	CARBON 10K 5% 1/4W	
C844	1-104-664-11	ELECT	47uF 20.00% 10V	R10	1-249-429-11	CARBON 10K 5% 1/4W	
C845	1-162-294-31	CERAMIC	0.001uF 10% 50V	R11	1-249-429-11	CARBON 10K 5% 1/4W	
C846	1-162-282-31	CERAMIC	100PF 10% 50V	R12	1-249-429-11	CARBON 10K 5% 1/4W	
C847	1-162-294-31	CERAMIC	0.001uF 10% 50V	R13	1-249-429-11	CARBON 10K 5% 1/4W	
C848	1-162-294-31	CERAMIC	0.001uF 10% 50V	R14	1-249-429-11	CARBON 10K 5% 1/4W	
C849	1-162-294-31	CERAMIC	0.001uF 10% 50V	R15	1-249-429-11	CARBON 10K 5% 1/4W	
C851	1-162-294-31	CERAMIC	0.001uF 10% 50V	R16	1-249-429-11	CARBON 10K 5% 1/4W	
C854	1-162-294-31	CERAMIC	0.001uF 10% 50V	R17	1-249-429-11	CARBON 10K 5% 1/4W	
C860	1-162-294-31	CERAMIC	0.001uF 10% 50V	R18	1-249-429-11	CARBON 10K 5% 1/4W	
C950	1-162-294-31	CERAMIC	0.001uF 10% 50V	R19	1-249-429-11	CARBON 10K 5% 1/4W	
		< CONNECTOR >		R20	1-249-429-11	CARBON 10K 5% 1/4W	
* CNP801	1-564-720-11	PIN, CONNECTOR (SMALL TYPE) 4P		R21	1-249-429-11	CARBON 10K 5% 1/4W	
* CNP801	1-580-169-11	PIN, CONNECTOR (PC BOARD) 8P		R777	1-249-429-11	CARBON 10K 5% 1/4W	
CNP802	1-784-740-11	CONNECTOR, FFC 18P		R778	1-249-429-11	CARBON 10K 5% 1/4W	
CNP803	1-784-746-11	CONNECTOR, FFC 23P		R801	1-247-887-00	CARBON 220K 5% 1/4W	
CNP804	1-784-733-11	CONNECTOR, FFC 11P		R802	1-247-887-00	CARBON 220K 5% 1/4W	
		< DIODE >		R803	1-247-887-00	CARBON 220K 5% 1/4W	
D801	8-719-991-33	DIODE 1SS133T-77		R804	1-247-887-00	CARBON 220K 5% 1/4W	
D802	8-719-991-33	DIODE 1SS133T-77		R805	1-247-887-00	CARBON 220K 5% 1/4W	
D803	8-719-991-33	DIODE 1SS133T-77					
D804	8-719-991-33	DIODE 1SS133T-77					
D805	8-719-991-33	DIODE 1SS133T-77					

DISPLAY

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
R806	1-247-887-00	CARBON	220K 5% 1/4W	R870	1-249-429-11	CARBON	10K 5% 1/4W
R807	1-247-887-00	CARBON	220K 5% 1/4W	R871	1-249-417-11	CARBON	1K 5% 1/4W F
R808	1-247-887-00	CARBON	220K 5% 1/4W	R872	1-249-417-11	CARBON	1K 5% 1/4W F
R809	1-247-887-00	CARBON	220K 5% 1/4W	R873	1-249-421-11	CARBON	2.2K 5% 1/4W F
R810	1-247-887-00	CARBON	220K 5% 1/4W	R874	1-249-421-11	CARBON	2.2K 5% 1/4W F
R811	1-247-887-00	CARBON	220K 5% 1/4W	R875	1-249-429-11	CARBON	10K 5% 1/4W
R812	1-247-887-00	CARBON	220K 5% 1/4W	R876	1-249-441-11	CARBON	100K 5% 1/4W
R813	1-247-887-00	CARBON	220K 5% 1/4W	R877	1-249-435-11	CARBON	33K 5% 1/4W
R814	1-247-887-00	CARBON	220K 5% 1/4W	R878	1-249-420-11	CARBON	1.8K 5% 1/4W F
R815	1-247-887-00	CARBON	220K 5% 1/4W	R879	1-249-417-11	CARBON	1K 5% 1/4W F
R816	1-247-887-00	CARBON	220K 5% 1/4W	R880	1-249-417-11	CARBON	1K 5% 1/4W F
R817	1-247-887-00	CARBON	220K 5% 1/4W	R881	1-249-417-11	CARBON	1K 5% 1/4W F
R818	1-247-887-00	CARBON	220K 5% 1/4W	R882	1-249-429-11	CARBON	10K 5% 1/4W
R819	1-247-887-00	CARBON	220K 5% 1/4W	R883	1-247-807-31	CARBON	100 5% 1/4W
R820	1-247-887-00	CARBON	220K 5% 1/4W	R884	1-249-422-11	CARBON	2.7K 5% 1/4W F
R821	1-247-887-00	CARBON	220K 5% 1/4W	R885	1-249-417-11	CARBON	1K 5% 1/4W F
R822	1-247-887-00	CARBON	220K 5% 1/4W	R886	1-249-417-11	CARBON	1K 5% 1/4W F
R823	1-247-887-00	CARBON	220K 5% 1/4W	R887	1-249-417-11	CARBON	1K 5% 1/4W F
R824	1-247-887-00	CARBON	220K 5% 1/4W	R888	1-249-417-11	CARBON	1K 5% 1/4W F
R825	1-247-887-00	CARBON	220K 5% 1/4W	R889	1-249-417-11	CARBON	1K 5% 1/4W F
R826	1-247-887-00	CARBON	220K 5% 1/4W	R890	1-249-417-11	CARBON	1K 5% 1/4W F
R827	1-247-887-00	CARBON	220K 5% 1/4W	R891	1-249-417-11	CARBON	1K 5% 1/4W F
R828	1-247-887-00	CARBON	220K 5% 1/4W	R892	1-249-417-11	CARBON	1K 5% 1/4W F
R829	1-247-887-00	CARBON	220K 5% 1/4W	R893	1-249-417-11	CARBON	1K 5% 1/4W F
R830	1-247-887-00	CARBON	220K 5% 1/4W	R894	1-249-417-11	CARBON	1K 5% 1/4W F
R831	1-247-887-00	CARBON	220K 5% 1/4W	R895	1-249-417-11	CARBON	1K 5% 1/4W F
R832	1-247-887-00	CARBON	220K 5% 1/4W	R896	1-249-417-11	CARBON	1K 5% 1/4W F
R833	1-249-417-11	CARBON	1K 5% 1/4W F	R897	1-249-417-11	CARBON	1K 5% 1/4W F
R834	1-249-417-11	CARBON	1K 5% 1/4W F	R898	1-249-417-11	CARBON	1K 5% 1/4W F
R835	1-249-417-11	CARBON	1K 5% 1/4W F	R899	1-249-421-11	CARBON	2.2K 5% 1/4W F
R836	1-249-417-11	CARBON	1K 5% 1/4W F	R1001	1-249-417-11	CARBON	1K 5% 1/4W F
R837	1-249-417-11	CARBON	1K 5% 1/4W F	R1002	1-249-417-11	CARBON	1K 5% 1/4W F
R838	1-249-417-11	CARBON	1K 5% 1/4W F	R1003	1-249-417-11	CARBON	1K 5% 1/4W F
R839	1-249-417-11	CARBON	1K 5% 1/4W F	R1004	1-249-421-11	CARBON	2.2K 5% 1/4W F
R840	1-249-417-11	CARBON	1K 5% 1/4W F	R1005	1-249-421-11	CARBON	2.2K 5% 1/4W F
R842	1-249-429-11	CARBON	10K 5% 1/4W	R1006	1-249-421-11	CARBON	2.2K 5% 1/4W F
R843	1-249-429-11	CARBON	10K 5% 1/4W	R1007	1-249-425-11	CARBON	4.7K 5% 1/4W F
R844	1-249-425-11	CARBON	4.7K 5% 1/4W F	R1008	1-249-425-11	CARBON	4.7K 5% 1/4W F
R845	1-249-441-11	CARBON	100K 5% 1/4W	R1009	1-249-429-11	CARBON	10K 5% 1/4W
R846	1-249-425-11	CARBON	4.7K 5% 1/4W F	R1010	1-249-417-11	CARBON	1K 5% 1/4W F
R847	1-249-425-11	CARBON	4.7K 5% 1/4W F	R1011	1-249-417-11	CARBON	1K 5% 1/4W F
R848	1-249-425-11	CARBON	4.7K 5% 1/4W F	R1012	1-249-439-11	CARBON	68K 5% 1/4W
R849	1-249-417-11	CARBON	1K 5% 1/4W F	R1013	1-249-439-11	CARBON	68K 5% 1/4W
R850	1-249-417-11	CARBON	1K 5% 1/4W F	R1014	1-247-887-00	CARBON	220K 5% 1/4W
R851	1-249-417-11	CARBON	1K 5% 1/4W F	R1015	1-247-807-31	CARBON	100 5% 1/4W
R852	1-249-429-11	CARBON	10K 5% 1/4W	R1016	1-249-429-11	CARBON	10K 5% 1/4W
R853	1-249-417-11	CARBON	1K 5% 1/4W F	R1017	1-249-411-11	CARBON	330 5% 1/4W
R854	1-249-417-11	CARBON	1K 5% 1/4W F	R1018	1-249-417-11	CARBON	1K 5% 1/4W F
R855	1-249-417-11	CARBON	1K 5% 1/4W F	R1019	1-249-417-11	CARBON	1K 5% 1/4W F
R856	1-249-417-11	CARBON	1K 5% 1/4W F	R1020	1-249-417-11	CARBON	1K 5% 1/4W F
R857	1-249-417-11	CARBON	1K 5% 1/4W F	R1021	1-249-422-11	CARBON	2.7K 5% 1/4W F
R858	1-249-417-11	CARBON	1K 5% 1/4W F				
R862	1-249-417-11	CARBON	1K 5% 1/4W F			< SWITCH >	
R863	1-247-807-31	CARBON	100 5% 1/4W	SW801	1-227-234-11	VOLUME (EVEKD2F3024B) (VOLUME)	
R864	1-249-411-11	CARBON	330 5% 1/4W			< VIBRATOR >	
R865	1-249-417-11	CARBON	1K 5% 1/4W F				
R866	1-249-417-11	CARBON	1K 5% 1/4W F	X801	1-760-105-11	VIBRATOR, CRYSTAL 32.768MHz	
R867	1-249-429-11	CARBON	10K 5% 1/4W	X802	1-781-598-11	VIBRATOR, CERAMIC 8MHz	
R868	1-249-429-11	CARBON	10K 5% 1/4W				
R869	1-249-429-11	CARBON	10K 5% 1/4W				

HEADPHONE

KEY(A) BOARD

KEY(B) BOARD

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
*	1-678-293-11	HEADPHONE BOARD *****		R1040	1-249-415-11	CARBON 680 5%	1/4W F
		< CAPACITOR >		R1041	1-249-416-11	CARBON 820 5%	1/4W F
C941	1-164-159-21	CERAMIC 0.1uF	50V	R1042	1-249-418-11	CARBON 1.2K 5%	1/4W F
		< CONNECTOR >		R1043	1-249-419-11	CARBON 1.5K 5%	1/4W F
* CNP906	1-580-165-11	PIN, CONNECTOR (PC BOARD) 4P		R1044	1-249-421-11	CARBON 2.2K 5%	1/4W F
		< JACK >		R1045	1-249-424-11	CARBON 3.9K 5%	1/4W F
J901	1-568-267-11	JACK(PHONES)		R1048	1-249-413-11	CARBON 470 5%	1/4W F
		< COIL >		R1049	1-249-415-11	CARBON 680 5%	1/4W F
L903	1-410-521-11	INDUCTOR 100uH		R1050	1-249-416-11	CARBON 820 5%	1/4W F
L904	1-410-521-11	INDUCTOR 100uH		R1051	1-249-418-11	CARBON 1.2K 5%	1/4W F
L905	1-414-146-31	INDUCTOR 2.2uH		R1052	1-249-419-11	CARBON 1.5K 5%	1/4W F
		< RESISTOR >		R1053	1-249-421-11	CARBON 2.2K 5%	1/4W F
R926	1-249-407-11	CARBON 150 5%	1/4W F	R1060	1-249-408-11	CARBON 180 5%	1/4W F
R927	1-249-407-11	CARBON 150 5%	1/4W F			< SWITCH >	
*****				SW802	1-476-135-11	ENCODER(CONTROL JOG)	
*	A-4475-495-A	KEY (A) BOARD, COMPLETE *****		SW803	1-762-196-21	SWITCH, TACT (TAPE ■)	
	3-049-166-01	BUTTON, POWER		SW804	1-762-196-21	SWITCH, TACT (TAPE ►)	
	3-049-167-01	BUTTON, FUNCTION		SW805	1-762-196-21	SWITCH, TACT (TAPE ◀◀)	
	3-049-168-01	BUTTON, TUNING		SW806	1-762-196-21	SWITCH, TACT (TAPE ►►)	
	3-049-169-01	BUTTON, MEGA		SW807	1-762-196-21	SWITCH, TACT (ENTER)	
	3-049-170-01	BUTTON, SOUND		SW808	1-762-196-21	SWITCH, TACT (REPEAT)	
	3-221-491-01	LENS,MEGA BASS		SW809	1-762-196-21	SWITCH, TACT (MODE)	
		< CAPACITOR >		SW810	1-762-196-21	SWITCH, TACT (MEGA BASS)	
C825	1-164-159-21	CERAMIC 0.1uF	50V	SW811	1-762-196-21	SWITCH, TACT (TUNE+)	
		< CONNECTOR >		SW812	1-762-196-21	SWITCH, TACT (TUNE-)	
* CNP806	1-580-166-11	PIN, CONNECTOR (PC BOARD) 5P		SW813	1-762-196-21	SWITCH, TACT (CD ■)	
* CNP807	1-794-727-11	HOLDER, WIRE 3P		SW814	1-762-196-21	SWITCH, TACT (CD ►■)	
* CNP805	1-564-720-11	PIN, CONNECTOR (SMALL TYPE) 4P		SW815	1-762-196-21	SWITCH, TACT (LINE)	
* CNP805	1-580-169-11	PIN, CONNECTOR (PC BOARD) 8P		SW816	1-762-196-21	SWITCH, TACT (BAND)	
		< IC >		SW817	1-762-196-21	SWITCH, TACT (COUNTER RESET)	
IC802	8-749-011-22	IC GP1U27X		SW818	1-762-196-21	SWITCH, TACT (A/B)	
		< LED >		SW819	1-762-196-21	SWITCH, TACT (●/■)	
LED801	8-719-077-08	DIODE SLR-332DCT32(MEGA BASS)		SW820	1-762-196-21	SWITCH, TACT (DUBBING)	
		< RESISTOR >		SW823	1-762-196-21	SWITCH, TACT (POWER)	
R1030	1-249-413-11	CARBON 470 5%	1/4W F	SW824	1-762-196-21	SWITCH, TACT (SLEEP)	
R1031	1-249-415-11	CARBON 680 5%	1/4W F	SW825	1-762-196-21	SWITCH, TACT (STANDBY)	
R1032	1-249-416-11	CARBON 820 5%	1/4W F	SW826	1-762-196-21	SWITCH, TACT (TIMER)	
R1033	1-249-418-11	CARBON 1.2K 5%	1/4W F	SW827	1-762-196-21	SWITCH, TACT (CLOCK)	
R1034	1-249-419-11	CARBON 1.5K 5%	1/4W F	SW828	1-762-196-21	SWITCH, TACT (DISPLAY)	
R1035	1-249-421-11	CARBON 2.2K 5%	1/4W F	*****			
R1036	1-249-424-11	CARBON 3.9K 5%	1/4W F	*	1-678-295-11	KEY (B) BOARD *****	
R1037	1-247-852-11	CARBON 7.5K 5%	1/4W			< CONNECTOR >	
R1038	1-249-433-11	CARBON 22K 5%	1/4W	* CNP808	1-580-155-11	PIN, CONNECTOR (PC BOARD) 3P	
R1039	1-249-413-11	CARBON 470 5%	1/4W F			< RESISTOR >	
				R1054	1-249-424-11	CARBON 3.9K 5%	1/4W F
				R1055	1-247-852-11	CARBON 7.5K 5%	1/4W
						< SWITCH >	
				S829	1-762-196-21	SWITCH, TACT (SURROUND)	
				S830	1-762-196-21	SWITCH, TACT (SOUND)	

LED

LOAD SW

MAIN

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
*	1-678-286-11	LED BOARD *****		C14	1-162-209-31	CERAMIC	27PF 5.00% 50V
	3-049-177-01	HOLDER, LED		C15	1-162-306-11	CERAMIC	0.01uF 30.00% 16V
	3-049-178-01	BUTTON, OPEN		C17	1-162-294-31	CERAMIC	0.001uF 10% 50V
	3-049-179-01	BUTTON, DISC CHANGE		C18	1-124-902-00	ELECT	0.47uF 20% 50V
	3-221-530-01	LENS(1), DISC INDICATOR		C19	1-162-294-31	CERAMIC	0.001uF 10% 50V
	3-221-548-01	LENS(2), DISC INDICATOR		C20	1-162-306-11	CERAMIC	0.01uF 30.00% 16V
	3-221-549-01	LENS(3), DISC INDICATOR		C21	1-162-294-31	CERAMIC	0.001uF 10% 50V
		< CONNECTOR >		C22	1-162-294-31	CERAMIC	0.001uF 10% 50V
* CNP809	1-580-166-11	PIN, CONNECTOR (PC BOARD) 5P		C23	1-162-199-31	CERAMIC	10PF 5% 50V
		< LED >		C25	1-126-935-11	ELECT	470uF 20.00% 10V
LED802	8-719-074-78	DIODE SLR-332MC3F (DISC 3)		C25	1-126-233-11	ELECT	22uF 20% 50V
LED803	8-719-074-78	DIODE SLR-332MC3F (DISC 2)		C26	1-162-306-11	CERAMIC	0.01uF 30.00% 16V
LED804	8-719-074-78	DIODE SLR-332MC3F (DISC 1)		C27	1-164-159-21	CERAMIC	0.1uF 50V
LED805	8-719-074-78	DIODE SLR-332MC3F		C28	1-104-664-11	ELECT	47uF 20.00% 10V
LED806	8-719-074-78	DIODE SLR-332MC3F		C29	1-124-903-11	ELECT	1uF 20.00% 50V
LED807	8-719-074-78	DIODE SLR-332MC3F		C30	1-124-903-11	ELECT	1uF 20.00% 50V
		< RESISTOR >		C31	1-126-964-11	ELECT	10uF 20.00% 50V
R1056	1-249-433-11	CARBON 22K 5% 1/4W		C32	1-126-964-11	ELECT	10uF 20.00% 50V
R1057	1-249-401-11	CARBON 47 5% 1/4W F		C33	1-130-486-00	MYLAR	0.018uF 10% 50V
R1058	1-249-401-11	CARBON 47 5% 1/4W F		C34	1-130-486-00	MYLAR	0.018uF 10% 50V
R1059	1-249-401-11	CARBON 47 5% 1/4W F		C35	1-164-159-21	CERAMIC	0.1uF 50V
R1061	1-249-401-11	CARBON 47 5% 1/4W F		C37	1-126-964-11	ELECT	10uF 20.00% 50V
R1062	1-249-401-11	CARBON 47 5% 1/4W F		C38	1-164-159-21	CERAMIC	0.1uF 50V
R1063	1-249-401-11	CARBON 47 5% 1/4W F		C40	1-126-964-11	ELECT	10uF 20.00% 50V
		< SWITCH >		C41	1-162-288-31	CERAMIC	330PF 10% 50V
SW831	1-762-196-21	SWITCH, TACT (OPEN/CLOSE)		C42	1-162-600-11	CERAMIC	0.0047uF 30.00% 16V
SW832	1-762-196-21	SWITCH, TACT (DISC CHANGE)		C44	1-110-671-31	CERAMIC	47000PF 50V
*****				C45	1-126-233-11	ELECT	22uF 20% 50V
*	1-678-574-11	LOAD SW BOARD *****		C46	1-162-292-31	CERAMIC	680PF 10% 50V
		< CONNECTOR >		C47	1-126-962-11	ELECT	3.3uF 20.00% 50V
* CNP708	1-565-386-11	HOLDER, CABLE 5P		C48	1-162-201-31	CERAMIC	12PF 5% 50V
* CNP713	1-565-384-11	HOLDER, CABLE 3P		C49	1-162-201-31	CERAMIC	12PF 5% 50V
		< SWITCH >		C50	1-162-282-31	CERAMIC	100PF 10% 50V
SW702	1-771-977-11	SWITCH, ROTARY (OPEN/CLOSE)		C51	1-162-282-31	CERAMIC	100PF 10% 50V
*****				C52	1-162-306-11	CERAMIC	0.01uF 30.00% 16V
*	A-4440-132-A	MAIN BOARD, COMPLETE *****		C54	1-162-306-11	CERAMIC	0.01uF 30.00% 16V
	1-564-187-00	PIN,CONNECTOR		C56	1-162-294-31	CERAMIC	0.001uF 10% 50V
	1-757-110-11	FFC13P		C57	1-110-671-31	CERAMIC	47000PF 50V
	4-352-844-01	PIN,LEAD, COATING		C58	1-162-306-11	CERAMIC	0.01uF 30.00% 16V
	7-685-646-79	SCREW,TOTSU BTP 3X8 TYPE2 N-S		C59	1-162-294-31	CERAMIC	0.001uF 10% 50V
		< CAPACITOR >		C60	1-126-964-11	ELECT	10uF 20.00% 50V
C3	1-162-294-31	CERAMIC 0.001uF 10% 50V		C61	1-162-306-11	CERAMIC	0.01uF 30.00% 16V
C4	1-128-817-31	CERAMIC 470PF 5% 50V		C63	1-104-665-11	ELECT	100uF 20.00% 10V
C5	1-162-208-31	CERAMIC 24PF 5.00% 50V		C64	1-162-306-11	CERAMIC	0.01uF 30.00% 16V
C9	1-162-306-11	CERAMIC 0.01uF 30.00% 16V		C65	1-136-177-00	FILM	1uF 5.00% 50V
C11	1-162-290-31	CERAMIC 470PF 10% 50V		C66	1-162-282-31	CERAMIC	100PF 10% 50V
				C68	1-162-600-11	CERAMIC	0.0047uF 30.00% 16V
				C70	1-162-284-31	CERAMIC	150PF 10.00% 50V
				C78	1-162-306-11	CERAMIC	0.01uF 30.00% 16V
				C81	1-162-192-31	CERAMIC	2.7PF 10.00% 50V
				C83	1-102-965-00	CERAMIC	39PF 5% 50V
				C101	1-162-282-31	CERAMIC	100PF 10% 50V
				C102	1-124-903-11	ELECT	1uF 20.00% 50V
				C103	1-124-903-11	ELECT	1uF 20.00% 50V
				C105	1-124-903-11	ELECT	1uF 20.00% 50V
				C107	1-162-207-31	CERAMIC	22PF 5% 50V
				C108	1-126-963-11	ELECT	4.7uF 20.00% 50V
				C109	1-126-963-11	ELECT	4.7uF 20.00% 50V
				C110	1-130-495-00	MYLAR	0.1uF 5% 50V
				C111	1-130-495-00	MYLAR	0.1uF 5% 50V

Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
C112	1-130-480-00	MYLAR	0.0056uF	5%	50V	C418	1-162-302-11	CERAMIC	0.0022uF	20.00%	16V
C113	1-130-496-00	MYLAR	0.12uF	5%	50V	C499	1-162-286-21	CERAMIC	220PF	10.00%	50V
C114	1-130-495-00	MYLAR	0.1uF	5%	50V	C501	1-162-292-31	CERAMIC	680PF	10%	50V
C115	1-104-665-11	ELECT	100uF	20.00%	10V	C502	1-162-292-31	CERAMIC	680PF	10%	50V
C116	1-162-209-31	CERAMIC	27PF	5.00%	50V	C503	1-162-211-31	CERAMIC	33PF	5%	50V
C117	1-126-963-11	ELECT	4.7uF	20.00%	50V	C504	1-130-486-00	MYLAR	0.018uF	10%	50V
C118	1-126-963-11	ELECT	4.7uF	20.00%	50V	C505	1-104-665-11	ELECT	100uF	20.00%	10V
C119	1-124-903-11	ELECT	1uF	20.00%	50V	C506	1-162-286-21	CERAMIC	220PF	10.00%	50V
C201	1-162-282-31	CERAMIC	100PF	10%	50V	C507	1-126-963-11	ELECT	4.7uF	20.00%	50V
C202	1-124-903-11	ELECT	1uF	20.00%	50V	C508	1-126-963-11	ELECT	4.7uF	20.00%	50V
C203	1-124-903-11	ELECT	1uF	20.00%	50V	C509	1-130-470-00	MYLAR	820PF	5%	50V
C205	1-124-903-11	ELECT	1uF	20.00%	50V	C510	1-162-303-11	CERAMIC	0.0033uF	20.00%	16V
C207	1-162-207-31	CERAMIC	22PF	5%	50V	C511	1-126-964-11	ELECT	10uF	20.00%	50V
C208	1-126-963-11	ELECT	4.7uF	20.00%	50V	C514	1-162-294-31	CERAMIC	0.001uF	10%	50V
C209	1-126-963-11	ELECT	4.7uF	20.00%	50V	C515	1-126-963-11	ELECT	4.7uF	20.00%	50V
C210	1-130-495-00	MYLAR	0.1uF	5%	50V	C516	1-124-902-00	ELECT	0.47uF	20%	50V
C211	1-130-495-00	MYLAR	0.1uF	5%	50V	C517	1-162-294-31	CERAMIC	0.001uF	10%	50V
C212	1-130-480-00	MYLAR	0.0056uF	5%	50V	C518	1-162-302-11	CERAMIC	0.0022uF	20.00%	16V
C213	1-130-496-00	MYLAR	0.12uF	5%	50V	C599	1-162-286-21	CERAMIC	220PF	10.00%	50V
C214	1-130-495-00	MYLAR	0.1uF	5%	50V	C601	1-126-961-11	ELECT	2.2uF	20.00%	50V
C215	1-104-665-11	ELECT	100uF	20.00%	10V	C602	1-104-665-11	ELECT	100uF	20.00%	16V
C216	1-162-209-31	CERAMIC	27PF	5.00%	50V	C603	1-104-664-11	ELECT	47uF	20.00%	10V
C217	1-126-963-11	ELECT	4.7uF	20.00%	50V	C604	1-126-786-11	ELECT	47uF	20.00%	16V
C218	1-126-963-11	ELECT	4.7uF	20.00%	50V	C605	1-162-293-31	CERAMIC	820PF	10.00%	50V
C219	1-124-903-11	ELECT	1uF	20.00%	50V	C606	1-130-469-00	MYLAR	680PF	5%	50V
C304	1-130-472-00	MYLAR	0.0012uF	5%	50V	C607	1-130-479-00	MYLAR	0.0047uF	5%	50V
C305	1-130-495-00	MYLAR	0.1uF	5%	50V	C608	1-162-294-31	CERAMIC	0.001uF	10%	50V
C306	1-126-233-11	ELECT	22uF	20%	50V	C609	1-126-786-11	ELECT	47uF	20.00%	16V
C307	1-162-282-31	CERAMIC	100PF	10%	50V	C612	1-162-305-11	CERAMIC	0.0068uF	20.00%	16V
C308	1-162-306-11	CERAMIC	0.01uF	30.00%	16V	C615	1-104-666-11	ELECT	220uF	20.00%	10V
C309	1-126-786-11	ELECT	47uF	20.00%	16V	C618	1-104-665-11	ELECT	100uF	20.00%	16V
C310	1-164-159-21	CERAMIC	0.1uF		50V	C619	1-126-963-11	ELECT	4.7uF	20.00%	50V
C311	1-126-786-11	ELECT	47uF	20.00%	16V	C630	1-104-665-11	ELECT	100uF	20.00%	16V
C312	1-124-903-11	ELECT	1uF	20.00%	50V	C631	1-162-306-11	CERAMIC	0.01uF	30.00%	16V
C313	1-126-786-11	ELECT	47uF	20.00%	16V	C632	1-162-306-11	CERAMIC	0.01uF	30.00%	16V
C321	1-162-306-11	CERAMIC	0.01uF	30.00%	16V	C638	1-126-963-11	ELECT	4.7uF	20.00%	50V
C323	1-162-306-11	CERAMIC	0.01uF	30.00%	16V	C640	1-126-963-11	ELECT	4.7uF	20.00%	50V
C324	1-104-666-11	ELECT	220uF	20.00%	10V	C641	1-162-215-31	CERAMIC	47PF	5%	50V
C325	1-162-306-11	CERAMIC	0.01uF	30.00%	16V	C642	1-162-282-31	CERAMIC	100PF	10%	50V
C328	1-162-306-11	CERAMIC	0.01uF	30.00%	16V	C643	1-162-282-31	CERAMIC	100PF	10%	50V
C330	1-162-282-31	CERAMIC	100PF	10%	50V	C644	1-162-282-31	CERAMIC	100PF	10%	50V
C331	1-104-665-11	ELECT	100uF	20.00%	10V	C645	1-162-215-31	CERAMIC	47PF	5%	50V
C332	1-104-665-11	ELECT	100uF	20.00%	10V	C646	1-162-215-31	CERAMIC	47PF	5%	50V
C334	1-126-964-11	ELECT	10uF	20.00%	50V	C647	1-161-494-00	CERAMIC	0.022uF		25V
C335	1-126-233-11	ELECT	22uF	20%	50V	C648	1-162-306-11	CERAMIC	0.01uF	30.00%	16V
C401	1-162-292-31	CERAMIC	680PF	10%	50V	C649	1-162-306-11	CERAMIC	0.01uF	30.00%	16V
C402	1-162-292-31	CERAMIC	680PF	10%	50V	C650	1-162-306-11	CERAMIC	0.01uF	30.00%	16V
C403	1-162-211-31	CERAMIC	33PF	5%	50V	C651	1-130-481-00	MYLAR	0.0068uF	5%	50V
C404	1-130-486-00	MYLAR	0.018uF	10%	50V	C652	1-126-937-11	ELECT	4700uF	20.00%	16V
C405	1-104-665-11	ELECT	100uF	20.00%	10V	C653	1-162-282-31	CERAMIC	100PF	10%	50V
C406	1-162-286-21	CERAMIC	220PF	10.00%	50V	C654	1-162-282-31	CERAMIC	100PF	10%	50V
C407	1-126-963-11	ELECT	4.7uF	20.00%	50V	C655	1-162-282-31	CERAMIC	100PF	10%	50V
C408	1-126-963-11	ELECT	4.7uF	20.00%	50V	C656	1-126-964-11	ELECT	10uF	20.00%	50V
C409	1-130-470-00	MYLAR	820PF	5%	50V	C657	1-126-233-11	ELECT	22uF	20%	50V
C410	1-162-303-11	CERAMIC	0.0033uF	20.00%	16V	C658	1-126-786-11	ELECT	47uF	20.00%	16V
C411	1-126-964-11	ELECT	10uF	20.00%	50V	C909	1-161-494-00	CERAMIC	0.022uF		25V
C414	1-162-294-31	CERAMIC	0.001uF	10%	50V	C910	1-161-494-00	CERAMIC	0.022uF		25V
C415	1-126-963-11	ELECT	4.7uF	20.00%	50V	C911	1-161-494-00	CERAMIC	0.022uF		25V
C416	1-124-902-00	ELECT	0.47uF	20%	50V	C912	1-161-494-00	CERAMIC	0.022uF		25V
C417	1-162-294-31	CERAMIC	0.001uF	10%	50V	C913	1-126-942-61	ELECT	1000uF	20.00%	25V

MAIN

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
C921	1-104-665-11	ELECT	100uF 20.00% 16V			< IC >	
C922	1-126-964-11	ELECT	10uF 20.00% 50V				
C923	1-104-665-11	ELECT	100uF 20.00% 16V	IC1	8-759-663-31	IC LA1833N	
C924	1-126-964-11	ELECT	10uF 20.00% 50V	IC2	8-759-549-57	IC LC72137-D	
C925	1-126-964-11	ELECT	10uF 20.00% 50V	IC301	8-759-684-34	IC TDA7442D	
				IC303	8-759-943-94	IC BA15218	
C927	1-104-665-11	ELECT	100uF 20.00% 10V	IC304	8-759-508-69	IC BA3126N	
C928	1-126-935-11	ELECT	470uF 20.00% 10V				
		< FILTER >		IC305	8-759-242-58	IC TA8189N	
CF1	1-236-711-21	FILTER, BAND PASS		IC306	8-759-916-52	IC TC74HC165AP	
CF2	1-781-171-11	DISCRIMINATOR, CERAMIC		IC307	8-759-234-75	IC TC74HC4094AP	
CF3	1-781-817-11	DISCRIMINATOR, CERAMIC				< JACK >	
		< COMPOSITION CIRCUIT BLOCK >		J301	1-794-561-11	JACK, RCA (LINE IN)	
				J302	1-694-266-11	TERMINAL BOARD, ANT (ANTENNA)	
CFT1	1-233-885-11	ENCAPSULATED COMPONENT				< COIL >	
		< CONNECTOR >		L3	1-416-785-11	COIL, MW ANTENNA	
* CNP301	1-580-155-11	PIN, CONNECTOR (PC BOARD) 3P		L5	1-411-199-11	COIL, MW/LW OSC	
CNP302	1-506-987-11	PIN, CONNECTOR (PC BOARD) 5P		L6	1-410-509-11	INDUCTOR	10uH
CNP303	1-784-785-11	CONNECTOR, FFC 23P		L8	1-410-324-11	INDUCTOR	4.7uH
* CNP305	1-794-723-11	CONNECTOR, WIRE TRAP (METAL)5P		L9	1-410-521-11	INDUCTOR	100uH
* CNP305	1-794-722-11	CONNECTOR, WIRE TRAP (METAL)4P		L10	1-410-525-11	INDUCTOR	220uH
CNP307	1-784-774-11	CONNECTOR, FFC 13P		L11	1-410-521-11	INDUCTOR	100uH
* CNP309	1-794-726-11	CONNECTOR (VERTICAL) 7P		L12	1-419-788-11	COIL, CHOKE	
* CNP310	1-580-154-11	PIN, CONNECTOR (PC BOARD) 2P		L13	1-410-521-11	INDUCTOR	100uH
		< TRIMMER >		L14	1-414-142-11	INDUCTOR	1uH
CT1	1-141-411-11	CAP, ADJ 20PF		L301	1-410-397-21	FERRITE BEAD INDUCTOR	
		< DIODE >		L302	1-410-397-21	FERRITE BEAD INDUCTOR	
D1	8-719-991-33	DIODE 1SS133T-77		L303	1-408-117-00	INDUCTOR	10uH
D2	8-719-991-33	DIODE 1SS133T-77		L304	1-410-775-21	INDUCTOR	10MH
D3	8-719-050-69	DIODE KV1520NT		L305	1-410-775-21	INDUCTOR	10MH
D4	8-719-991-33	DIODE 1SS133T-77		L306	1-433-372-11	TRANSFORMER, BIAS OSCILLATION	
D5	8-719-991-33	DIODE 1SS133T-77		L398	1-410-776-11	INDUCTOR	12MH
				L399	1-410-776-11	INDUCTOR	12MH
D6	8-719-050-72	DIODE KV1370NT				< TRANSISTOR >	
D7	8-719-050-72	DIODE KV1370NT		Q4	8-729-119-32	TRANSISTOR	2SK193TP-E
D301	8-719-109-85	DIODE MTZJ-T-77-5.1B		Q8	8-729-029-72	TRANSISTOR	DTC114YS-TP
D302	8-719-991-33	DIODE 1SS133T-77		Q9	8-729-922-66	TRANSISTOR	2SC2410S-TPN
D303	8-719-991-33	DIODE 1SS133T-77		Q10	8-729-902-80	TRANSISTOR	DTA114YS-TP
				Q11	8-729-029-72	TRANSISTOR	DTC114YS-TP
D310	8-719-991-33	DIODE 1SS133T-77		Q12	8-729-029-72	TRANSISTOR	DTC114YS-TP
D311	8-719-991-33	DIODE 1SS133T-77		Q102	8-729-119-78	TRANSISTOR	2SC2785TP-E
D312	8-719-200-02	DIODE 1N4003		Q202	8-729-119-78	TRANSISTOR	2SC2785TP-E
D314	8-719-991-33	DIODE 1SS133T-77		Q301	8-729-119-78	TRANSISTOR	2SC2785TP-E
D315	8-719-991-33	DIODE 1SS133T-77		Q302	8-729-119-78	TRANSISTOR	2SC2785TP-E
D316	8-719-991-33	DIODE 1SS133T-77		Q303	8-729-119-78	TRANSISTOR	2SC2785TP-E
D317	8-719-991-33	DIODE 1SS133T-77		Q304	8-729-119-78	TRANSISTOR	2SC2785TP-E
D906	8-719-200-02	DIODE 1N4003		Q305	8-729-119-78	TRANSISTOR	2SC2785TP-E
D907	8-719-200-02	DIODE 1N4003		Q308	8-729-053-46	TRANSISTOR	KTC3200
D908	8-719-200-02	DIODE 1N4003		Q309	8-729-142-46	TRANSISTOR	2SC2001TP-L
D909	8-719-200-02	DIODE 1N4003		Q310	8-729-026-39	TRANSISTOR	2SA933AS-QRT
D914	8-719-109-89	DIODE MTZJ-T-77-5.6B		Q311	8-729-029-66	TRANSISTOR	DTC114ES-TP
D916	8-719-921-89	DIODE MTZJ-T-77-13C		Q314	8-729-030-02	TRANSISTOR	DTC144ESA-TP
D918	8-719-110-14	DIODE MTZJ-T-77-9.1C		Q315	8-729-029-72	TRANSISTOR	DTC114YS-TP
				Q316	8-729-993-43	TRANSISTOR	2SA934R

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
Q317	8-729-993-43	TRANSISTOR	2SA934R	R68	1-249-419-11	CARBON	1.5K 5% 1/4W F
Q318	8-729-119-78	TRANSISTOR	2SC2785TP-E	R99	1-249-428-11	CARBON	8.2K 5% 1/4W F
Q319	8-729-993-43	TRANSISTOR	2SA934R	R101	1-249-437-11	CARBON	47K 5% 1/4W
Q320	8-729-119-78	TRANSISTOR	2SC2785TP-E	R102	1-249-439-11	CARBON	68K 5% 1/4W
Q322	8-729-195-23	TRANSISTOR	2SA952TP-K1K2	R103	1-247-807-31	CARBON	100 5% 1/4W
Q323	8-729-029-94	TRANSISTOR	DTC143TS-TP	R107	1-249-430-11	CARBON	12K 5% 1/4W
Q324	8-729-119-78	TRANSISTOR	2SC2785TP-E	R109	1-249-426-11	CARBON	5.6K 5% 1/4W
Q325	8-729-119-78	TRANSISTOR	2SC2785TP-E	R110	1-249-422-11	CARBON	2.7K 5% 1/4W F
Q905	8-729-119-76	TRANSISTOR	2SA1175TP-F	R111	1-249-422-11	CARBON	2.7K 5% 1/4W F
Q906	8-729-029-68	TRANSISTOR	DTC114TS-TP	R112	1-249-429-11	CARBON	10K 5% 1/4W
Q907	8-729-029-72	TRANSISTOR	DTC114YS-TP	R113	1-249-440-11	CARBON	82K 5% 1/4W
Q908	8-729-904-34	TRANSISTOR	DTA114TS-TP	R114	1-249-421-11	CARBON	2.2K 5% 1/4W F
Q909	8-729-045-23	TRANSISTOR	2SA1931	R115	1-249-421-11	CARBON	2.2K 5% 1/4W F
Q910	8-729-119-78	TRANSISTOR	2SC2785TP-E	R116	1-249-429-11	CARBON	10K 5% 1/4W
Q911	9-885-006-60	TRANSISTOR	2SB1642	R117	1-249-425-11	CARBON	4.7K 5% 1/4W F
Q912	8-729-119-78	TRANSISTOR	2SC2785TP-E	R118	1-249-426-11	CARBON	5.6K 5% 1/4W
Q914	8-729-200-39	TRANSISTOR	2SC2236-Y	R120	1-249-431-11	CARBON	15K 5% 1/4W
		< RESISTOR >		R121	1-249-428-11	CARBON	8.2K 5% 1/4W F
R6	1-249-426-11	CARBON	5.6K 5%	R122	1-249-436-11	CARBON	39K 5% 1/4W
R7	1-247-887-00	CARBON	220K 5%	R123	1-249-433-11	CARBON	22K 5% 1/4W
R8	1-247-843-11	CARBON	3.3K 5%	R124	1-249-429-11	CARBON	10K 5% 1/4W
R10	1-249-439-11	CARBON	68K 5%	R125	1-249-429-11	CARBON	10K 5% 1/4W
R11	1-249-429-11	CARBON	10K 5%	R201	1-249-437-11	CARBON	47K 5% 1/4W
R12	1-249-427-11	CARBON	6.8K 5%	R202	1-249-439-11	CARBON	68K 5% 1/4W
R13	1-249-417-11	CARBON	1K 5%	R207	1-249-430-11	CARBON	12K 5% 1/4W
R15	1-249-417-11	CARBON	1K 5%	R209	1-249-426-11	CARBON	5.6K 5% 1/4W
R16	1-247-791-91	CARBON	22 5%	R210	1-249-422-11	CARBON	2.7K 5% 1/4W F
R17	1-249-416-11	CARBON	820 5%	R211	1-249-422-11	CARBON	2.7K 5% 1/4W F
R18	1-249-437-11	CARBON	47K 5%	R212	1-249-429-11	CARBON	10K 5% 1/4W
R19	1-249-411-11	CARBON	330 5%	R213	1-249-440-11	CARBON	82K 5% 1/4W
R20	1-249-407-11	CARBON	150 5%	R214	1-249-421-11	CARBON	2.2K 5% 1/4W F
R21	1-249-427-11	CARBON	6.8K 5%	R215	1-249-421-11	CARBON	2.2K 5% 1/4W F
R22	1-249-427-11	CARBON	6.8K 5%	R216	1-249-429-11	CARBON	10K 5% 1/4W
R23	1-249-427-11	CARBON	6.8K 5%	R217	1-249-425-11	CARBON	4.7K 5% 1/4W F
R24	1-249-427-11	CARBON	6.8K 5%	R218	1-249-426-11	CARBON	5.6K 5% 1/4W
R25	1-247-843-11	CARBON	3.3K 5%	R220	1-249-431-11	CARBON	15K 5% 1/4W
R26	1-249-435-11	CARBON	33K 5%	R221	1-249-428-11	CARBON	8.2K 5% 1/4W F
R27	1-249-393-11	CARBON	10 5%	R222	1-249-436-11	CARBON	39K 5% 1/4W
R28	1-249-417-11	CARBON	1K 5%	R223	1-249-433-11	CARBON	22K 5% 1/4W
R29	1-249-417-11	CARBON	1K 5%	R224	1-249-429-11	CARBON	10K 5% 1/4W
R30	1-249-417-11	CARBON	1K 5%	R225	1-249-429-11	CARBON	10K 5% 1/4W
R31	1-249-439-11	CARBON	68K 5%	R302	1-249-417-11	CARBON	1K 5% 1/4W F
R32	1-249-421-11	CARBON	2.2K 5%	R303	1-249-417-11	CARBON	1K 5% 1/4W F
R34	1-249-432-11	CARBON	18K 5%	R304	1-247-791-91	CARBON	22 5% 1/4W
R35	1-249-433-11	CARBON	22K 5%	R305	1-249-409-11	CARBON	220 5% 1/4W F
R36	1-249-417-11	CARBON	1K 5%	R307	1-249-424-11	CARBON	3.9K 5% 1/4W F
R37	1-249-426-11	CARBON	5.6K 5%	R308	1-249-421-11	CARBON	2.2K 5% 1/4W F
R38	1-249-421-11	CARBON	2.2K 5%	R309	1-249-439-11	CARBON	68K 5% 1/4W
R40	1-249-425-11	CARBON	4.7K 5%	R310	1-216-349-00	METAL OXIDE	1 5% 1W
R42	1-249-429-11	CARBON	10K 5%	R318	1-249-409-11	CARBON	220 5% 1/4W F
R43	1-249-411-11	CARBON	330 5%	R320	1-247-807-31	CARBON	100 5% 1/4W
R44	1-249-417-11	CARBON	1K 5%	R321	1-249-425-11	CARBON	4.7K 5% 1/4W F
R50	1-247-807-31	CARBON	100 5%	R401	1-247-885-00	CARBON	180K 5% 1/4W
R51	1-249-404-00	CARBON	82 5%	R402	1-249-427-11	CARBON	6.8K 5% 1/4W F
R52	1-249-417-11	CARBON	1K 5%	R404	1-249-400-11	CARBON	39 5% 1/4W F
R53	1-247-807-31	CARBON	100 5%	R405	1-247-862-11	CARBON	20K 5% 1/4W
R54	1-249-409-11	CARBON	220 5%	R407	1-247-883-00	CARBON	150K 5% 1/4W
R66	1-247-881-00	CARBON	120K 5%	R409	1-247-843-11	CARBON	3.3K 5% 1/4W
				R411	1-249-424-11	CARBON	3.9K 5% 1/4W F
				R412	1-249-425-11	CARBON	4.7K 5% 1/4W F

MAIN	MOTOR	O/C SW
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Ref. No.	Part No.	Description	Remarks
R413	1-249-429-11	CARBON 10K 5%	1/4W
R414	1-249-429-11	CARBON 10K 5%	1/4W
R415	1-249-421-11	CARBON 2.2K 5%	1/4W F
R416	1-249-421-11	CARBON 2.2K 5%	1/4W F
R417	1-249-441-11	CARBON 100K 5%	1/4W
R418	1-249-429-11	CARBON 10K 5%	1/4W
R419	1-249-417-11	CARBON 1K 5%	1/4W F
R420	1-249-417-11	CARBON 1K 5%	1/4W F
R421	1-247-891-00	CARBON 330K 5%	1/4W
R422	1-249-417-11	CARBON 1K 5%	1/4W F
R501	1-247-885-00	CARBON 180K 5%	1/4W
R502	1-249-427-11	CARBON 6.8K 5%	1/4W F
R504	1-249-400-11	CARBON 39 5%	1/4W F
R505	1-247-862-11	CARBON 20K 5%	1/4W
R507	1-247-883-00	CARBON 150K 5%	1/4W
R509	1-247-843-11	CARBON 3.3K 5%	1/4W
R511	1-249-424-11	CARBON 3.9K 5%	1/4W F
R512	1-249-425-11	CARBON 4.7K 5%	1/4W F
R513	1-249-429-11	CARBON 10K 5%	1/4W
R514	1-249-429-11	CARBON 10K 5%	1/4W
R515	1-249-421-11	CARBON 2.2K 5%	1/4W F
R516	1-249-421-11	CARBON 2.2K 5%	1/4W F
R517	1-249-441-11	CARBON 100K 5%	1/4W
R518	1-249-429-11	CARBON 10K 5%	1/4W
R519	1-249-417-11	CARBON 1K 5%	1/4W F
R520	1-249-417-11	CARBON 1K 5%	1/4W F
R521	1-247-891-00	CARBON 330K 5%	1/4W
R522	1-249-417-11	CARBON 1K 5%	1/4W F
R601	1-249-429-11	CARBON 10K 5%	1/4W
R602	1-247-807-31	CARBON 100 5%	1/4W
R603	1-247-903-00	CARBON 1M 5%	1/4W
R604	1-249-409-11	CARBON 220 5%	1/4W F
R606	1-249-421-11	CARBON 2.2K 5%	1/4W F
R607	1-249-429-11	CARBON 10K 5%	1/4W
R611	1-249-393-11	CARBON 10 5%	1/4W F
R612	1-249-399-11	CARBON 33 5%	1/4W F
R618	1-249-429-11	CARBON 10K 5%	1/4W
R620	1-249-425-11	CARBON 4.7K 5%	1/4W F
R626	1-249-425-11	CARBON 4.7K 5%	1/4W F
R627	1-247-843-11	CARBON 3.3K 5%	1/4W
R628	1-247-843-11	CARBON 3.3K 5%	1/4W
R629	1-249-417-11	CARBON 1K 5%	1/4W F
R630	1-249-425-11	CARBON 4.7K 5%	1/4W F
R631	1-249-407-11	CARBON 150 5%	1/4W F
R632	1-247-843-11	CARBON 3.3K 5%	1/4W
R633	1-249-425-11	CARBON 4.7K 5%	1/4W F
R634	1-249-407-11	CARBON 150 5%	1/4W F
R638	1-249-412-11	CARBON 390 5%	1/4W F
R640	1-249-425-11	CARBON 4.7K 5%	1/4W F
R641	1-249-425-11	CARBON 4.7K 5%	1/4W F
R642	1-249-417-11	CARBON 1K 5%	1/4W F
R643	1-249-425-11	CARBON 4.7K 5%	1/4W F
R644	1-249-425-11	CARBON 4.7K 5%	1/4W F
R646	1-249-425-11	CARBON 4.7K 5%	1/4W F
R647	1-249-425-11	CARBON 4.7K 5%	1/4W F
R648	1-249-422-11	CARBON 2.7K 5%	1/4W F
R649	1-249-417-11	CARBON 1K 5%	1/4W F
R650	1-249-425-11	CARBON 4.7K 5%	1/4W F
R651	1-249-425-11	CARBON 4.7K 5%	1/4W F
R652	1-249-437-11	CARBON 47K 5%	1/4W

Ref. No.	Part No.	Description	Remarks
R653	1-249-441-11	CARBON 100K 5%	1/4W
R655	1-249-417-11	CARBON 1K 5%	1/4W F
R656	1-249-429-11	CARBON 10K 5%	1/4W
R657	1-249-437-11	CARBON 47K 5%	1/4W
R658	1-249-425-11	CARBON 4.7K 5%	1/4W F
R659	1-249-401-11	CARBON 47 5%	1/4W F
R660	1-247-843-11	CARBON 3.3K 5%	1/4W
R661	1-249-425-11	CARBON 4.7K 5%	1/4W F
R662	1-249-439-11	CARBON 68K 5%	1/4W
R662	1-247-881-00	CARBON 120K 5%	1/4W
R663	1-249-439-11	CARBON 68K 5%	1/4W
R665	1-249-429-11	CARBON 10K 5%	1/4W
R666	1-249-425-11	CARBON 4.7K 5%	1/4W F
R667	1-249-435-11	CARBON 33K 5%	1/4W
R670	1-249-429-11	CARBON 10K 5%	1/4W
R929	1-249-413-11	CARBON 470 5%	1/4W F
R933	1-249-412-11	CARBON 390 5%	1/4W F
R935	1-249-415-11	CARBON 680 5%	1/4W F
R936	1-249-411-11	CARBON 330 5%	1/4W
R937	1-220-755-11	METAL 0.22 10%	2W
R938	1-249-425-11	CARBON 4.7K 5%	1/4W F
< SWITCH >			
SW301	1-771-979-11	SWITCH, DUCT (RESET)	
< TUNER >			
* TU1	1-693-378-21	TUNER UNIT	
< VIBRATOR >			
X1	1-760-130-11	VIBRATOR, CRYSTAL 75kHz	

* 1-678-577-11	MOTOR BOARD		

1-792-878-11	CABLE, FLAT		
< CAPACITOR >			
C01	1-124-768-11	ELECT 4.7uF 20.00% 50V	
< CONNECTOR >			
CN18	1-779-606-11	CONNECTOR (WIRE HOLDER) 2P	
< CONNECTOR >			
CNP702	1-784-727-11	CONNECTOR, FFC 5P	
* CNP711	1-573-287-11	HOLDER, CABLE 2P	

* 1-678-573-11	O/C SW BOARD		

< CONNECTOR >			
CN16	1-792-879-11	CABLE, FLAT (3P)	
< CONNECTOR >			
* CNP714	1-565-384-11	HOLDER, CABLE 3P	
< SWITCH >			
SW701	1-771-977-11	SWITCH, ROTARY	

POWER(A)

POWER(B)

Ref. No.	Part No.	Description	Remarks
*	1-678-290-11	POWER (A) BOARD *****	

*	1-680-338-11	POWER (B) BOARD *****	
	1-533-217-31	HOLDER, FUSE < FUSE >	
△ F902	1-532-465-51	FUSE, TIME LAG (3.15A/250V)	
△ F903	1-532-465-51	FUSE, TIME LAG (3.15A/250V)	
△ F904	1-532-465-51	FUSE, TIME LAG (3.15A/250V)	

		MISCELLANEOUS *****	
72	1-517-967-11	INDICATOR TUBE, FLUORESCENT	
* 74	1-757-635-11	FFC24P	
* 75	1-792-934-11	FFC18P	
* 76	1-792-905-11	FFC11P	
△ 107	1-777-071-21	CORD, POWER	
153	1-792-931-11	LEAD, HEAD (B)	
156	1-792-930-11	LEAD, HEAD (A)	
162	1-792-932-11	LEAD, MOTOR	
217	1-454-970-11	SOLENOID	
231	1-500-673-11	HEAD, ERASE	
232	1-500-672-11	HEAD, R/P	
276	1-792-880-11	FFC5P	
320	1-792-881-11	FFC(16 CORE)	
△ 351	8-848-492-18	OPTICAL PICK-UP KSM-213CCM	
△ T902	1-435-822-11	TRANSFORMER, POWER	

		ACCESSORIES *****	
	1-476-128-11	REMOTE COMMANDER (RMT-CZ10A)	
	1-501-659-41	ANTENNA (FM)	
	1-754-150-11	ANTENNA, LOOP (AM)	
△	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (UK)	
	3-048-920-41	MANUAL, INSTRUCTION (ENGLISH,SPANISH)	
	3-048-920-51	MANUAL, INSTRUCTION (FRENCH,DANISH)(AEP)	
	3-048-920-61	MANUAL, INSTRUCTION (DUTCH,PORTUGUESE)(AEP)	
	3-048-920-71	MANUAL, INSTRUCTION (ITALIAN,SWEDISH)(AEP)	
	3-048-920-81	MANUAL, INSTRUCTION (SWEDISH,FINNISH,RUSSIAN,POLISH)(AEP)	
	3-049-158-01	LID,BATTERY CASE (FOR RMT-CZ10A)	

Ref. No.	Part No.	Description	Remarks
		***** HARDWARE LIST *****	
#1	7-685-647-79	SCREW, TOTSU BTP 3X10 TYPE2 N-S	
#2	7-685-147-19	SCREW +P 3X10 TYPE2 NON-SLIT	
#3	7-621-759-35	+PSW, 2.6X5	
#4	7-685-134-14	SCREW +P 2.6X8 TYPE2 NON-SLIT	
#5	7-685-902-21	SCREW +PTPWH 2.6X8 (TYPE2)	
#6	7-688-003-01	W3,SMALL	
#7	7-624-118-01	RING, RETAINING E-2.5	
#8	7-685-135-19	SCREW +P 2.6X10 TYPE2 NON-SLIT	
#9	7-685-902-11	SCREW +PWH 2.6X6	
#10	7-685-131-19	SCREW +P 2.6X4 TYPE2 NON-SLIT	
#11	7-685-106-19	SCREW +P 2X10 TYPE2 NON-SLIT	
#12	7-685-903-31	SCREW +PTPWH 3X10 (TYPE2)	
#13	7-685-132-19	SCREW +P 2.6X5 TYPE2 NON-SLIT	
#14	7-685-133-19	SCREW +P 2.6X6 TYPE2	
#15	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT	
#16	7-685-903-21	SCREW +PTPWH 3X8 (TYPE2)	
#17	7-623-924-01	WASHER 3.0, NYLON	
#18	7-685-139-29	SCREW, TAPPING, (M2.6X20)	
#19	7-621-849-20	SCREW, WOOD +R 3.1X16	
#20	7-685-649-21	SCREW +BV 3X16	
#21	7-685-147-11	SCREW +P 3X10 TYPE2 NON-SLIT	
#22	7-685-753-09	SCREW +PTT 3X10 (S)	
#23	7-685-880-09	SCREW +BVTT 4X6 (S)	
#24	7-685-877-09	SCREW +BVTT 3X20 (S)	
#25	7-685-755-09	SCREW +PTT 3X14 (S)	
#26	7-685-753-09	SCREW +PTT 3X10 (S)	

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

