

# HCD-W550

## SERVICE MANUAL

*Canadian Model  
AEP Model  
UK Model  
E Model  
Australian Model  
Tourist Model*



- HCD-W550 is the deck, CD section in MHC-W550/W770AV.

Manufactured under license from Dolby Laboratories Licensing Corporation.  
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CD Section	Model Name Using Similar Mechanism	HCD-GR8/RX90
	CD Mechanism Type	CDM38-5BD29A
	Base Unit Name	BU-5BD29A
Tape deck Section	Model Name Using Similar Mechanism	HCD-GR5/RX50
	Tape Transport Mechanism Type	TCM-220WR2E

### SPECIFICATIONS

#### CD player section

system	Compact disc and digital audio system
Laser	Semiconductor laser ( $\lambda = 780 \text{ nm}$ ) Emission duration : continuous
Laser output	Max. 44.6 mW* *This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block with 7 mm aperture.
Frequency response	2Hz - 20 kHz ( $\pm 0.5 \text{ dB}$ )
Wavelength	780 - 790 nm
Signal to noise ratio	More than 90 dB
Dynamic range	More than 90 dB
CD OPTICAL DIGITAL OUT (Square optical connector jack, rear panel)	
Wavelength	600 nm
Output Level	- 18 dBm

#### Tape player section

Recording system	4 track 2 channel stereo
Frequency response (DOLBY NR OFF)	60 - 13,000 Hz ( $\pm 3 \text{ dB}$ ), using Sony TYPE I cassette 60 - 14,000 Hz ( $\pm 3 \text{ dB}$ ), using Sony TYPE II cassette

#### General

Dimensions (w / h / d)	Approx. 280 $\times$ 205 $\times$ 359 mm
Mass	Approx. 4.3 kg

Design and specifications are subject to change without notice.

## STEREO CASSETTE DECK CD PLAYER



# SONY®

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### SERVICING NOTE

• Supplying power during servicing

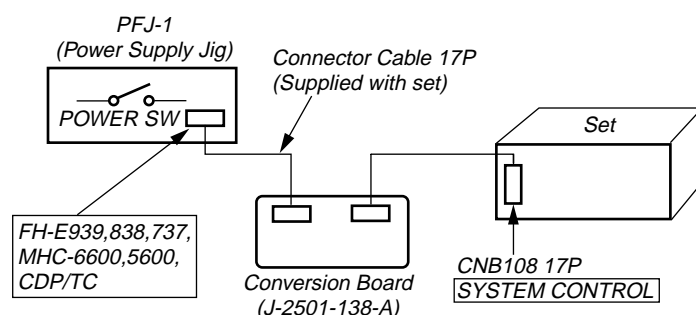
This equipment cannot operate without using a separate power supply. Connect to the STR-W550/W770AV when performing service work.

To apply power set the SYSTEM POWER switch on the Tuner/Amp to ON.

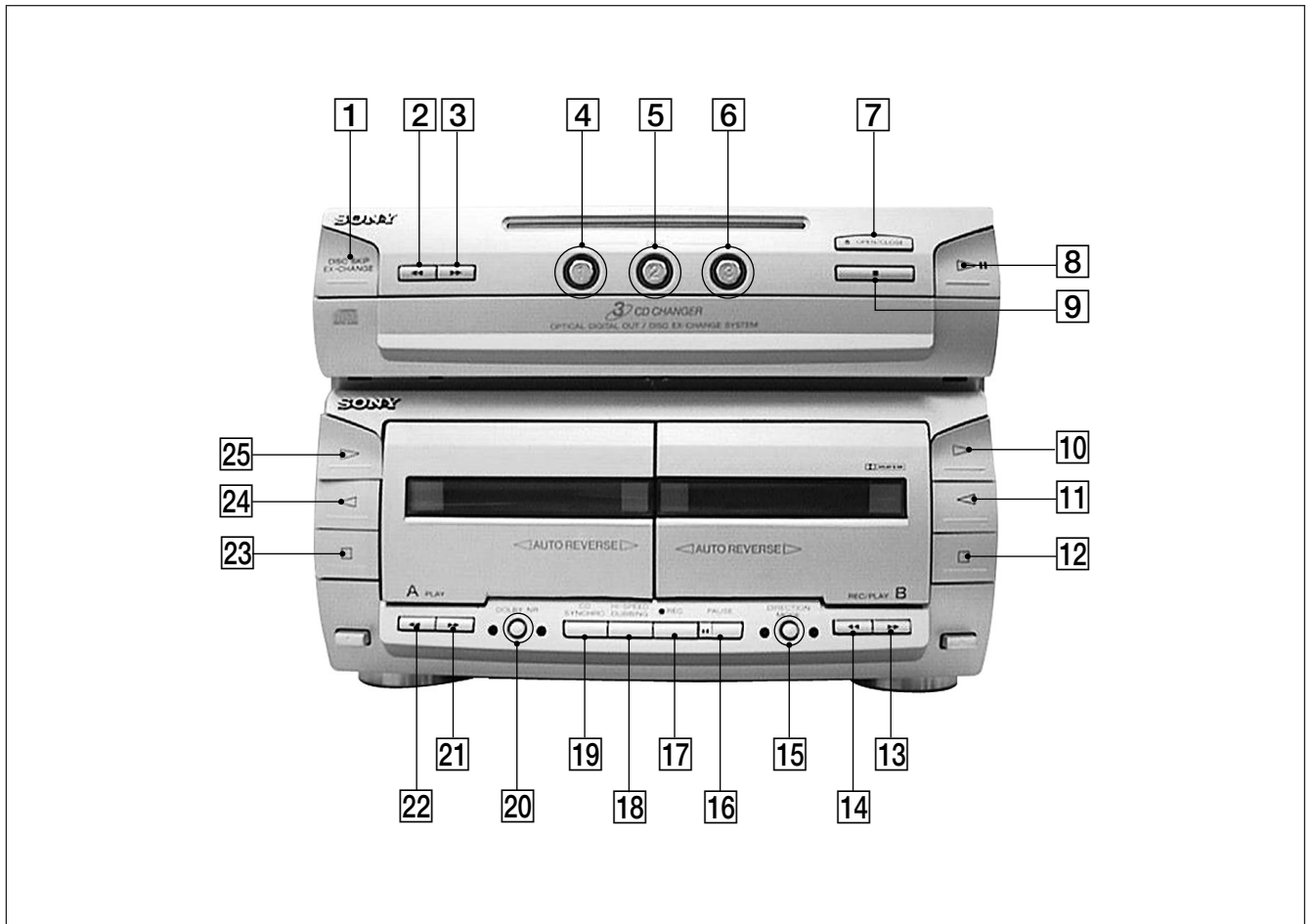
When other units are not available use the PFJ-1 power supply jig.

When using the PFJ-1, simultaneously press the CD STOP button and the DECK A ►► (fast rightward) button to turn on the power.

[Connection Diagram]



## SECTION 1 GENERAL

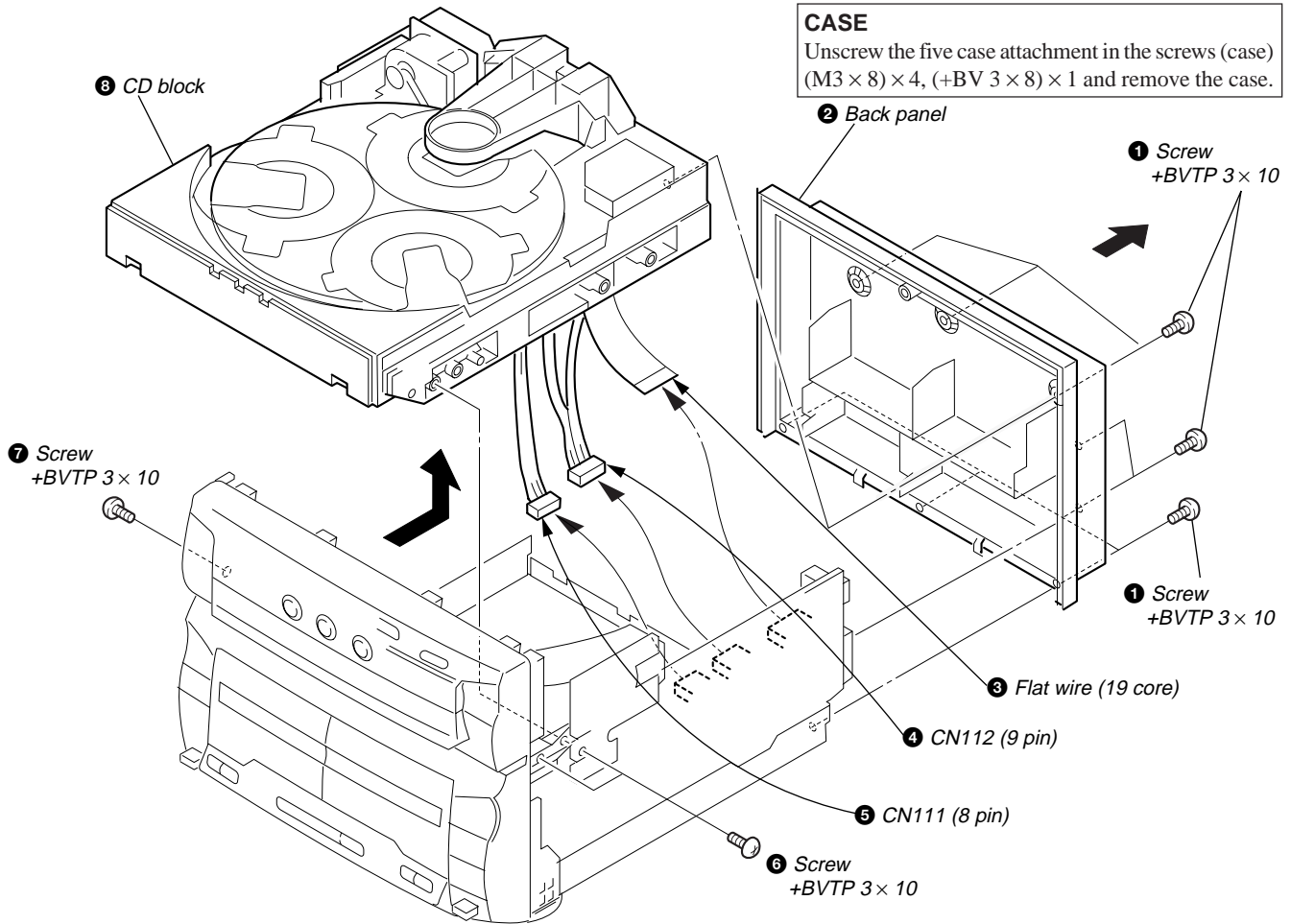


- |  |  |
|--|--|
| <b>1</b> DISC SKIP EX-CHANGE Button (CD) | <b>14</b> ◀◀ Button [B] (DECK)           |
| <b>2</b> ◀◀ Button (CD)                  | <b>15</b> DIRECTION MODE Button (DECK)   |
| <b>3</b> ▶▶ Button (CD)                  | <b>16</b> PAUSE Button (DECK)            |
| <b>4</b> DISC 1 Button (CD)              | <b>17</b> REC Button (DECK)              |
| <b>5</b> DISC 2 Button (CD)              | <b>18</b> HI-SPEED DUBBING Button (DECK) |
| <b>6</b> DISC 3 Button (CD)              | <b>19</b> CD SYNCHRO Button (DECK)       |
| <b>7</b> ▲ OPEN/CLOSE Button (CD)        | <b>20</b> DOLBY NR Button (DECK)         |
| <b>8</b> ▷   Button (CD)                 | <b>21</b> ▶▶ Button [A] (DECK)           |
| <b>9</b> ■ Button (CD)                   | <b>22</b> ◀◀ Button [A] (DECK)           |
| <b>10</b> ▷ Button [B] (DECK)            | <b>23</b> □ Button [A] (DECK)            |
| <b>11</b> ◁ Button [B] (DECK)            | <b>24</b> ◁ Button [A] (DECK)            |
| <b>12</b> □ Button [B] (DECK)            | <b>25</b> ▷ Button [A] (DECK)            |
| <b>13</b> ▶▶ Button [B] (DECK)           |  |

## SECTION 2 DISASSEMBLY

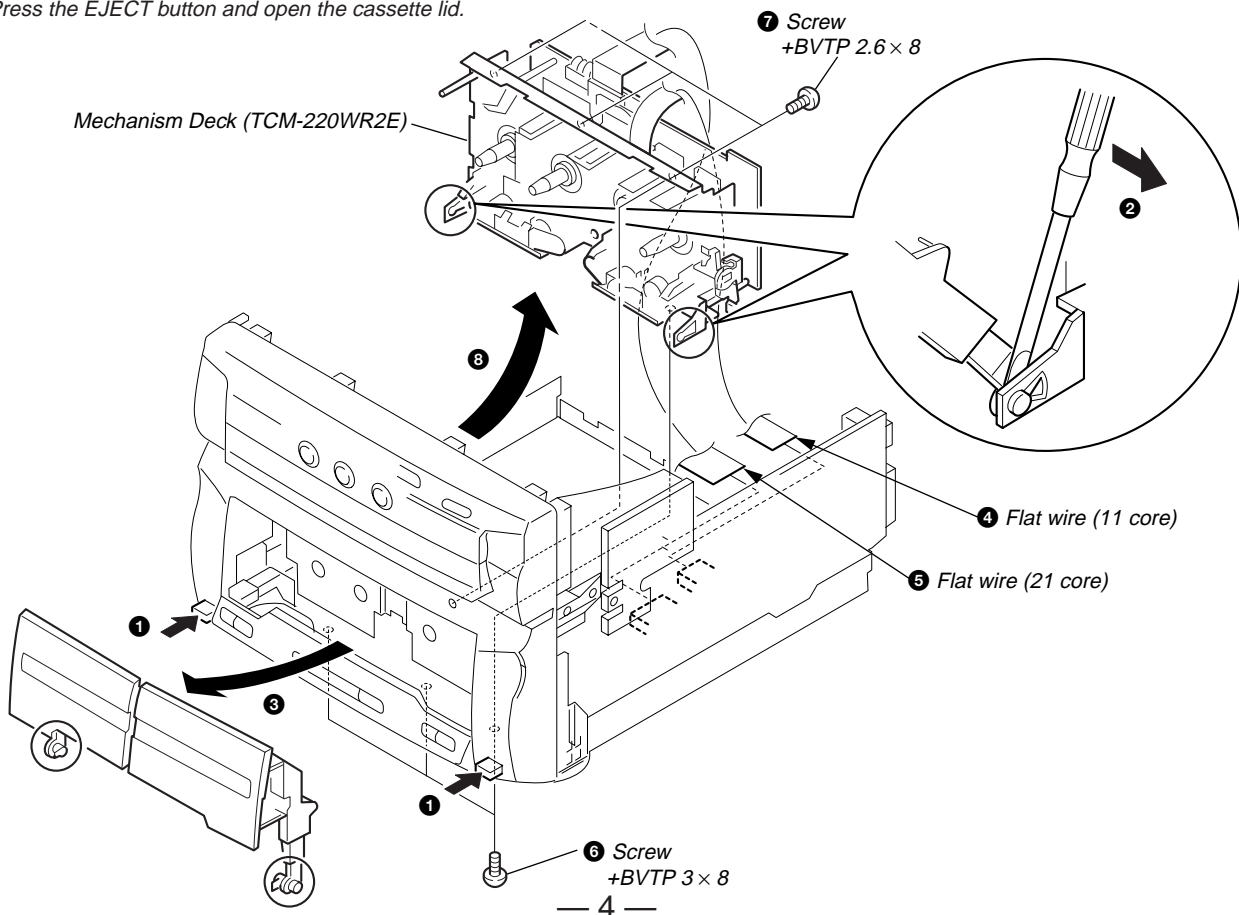
**Note :** Follow the disassembly procedure in the numerical order given.

### 2-1. BACK PANEL, CD BLOCK REMOVAL

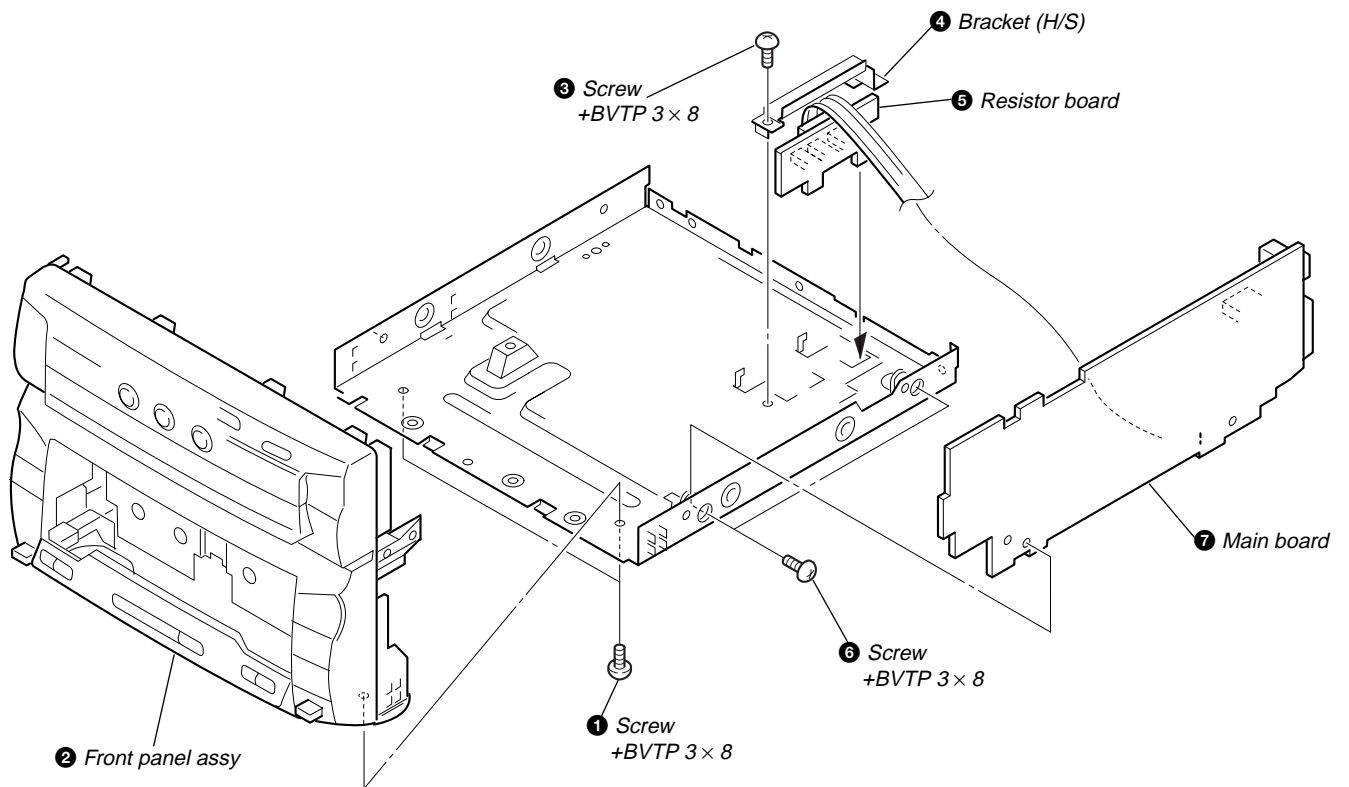


### 2-2. CASSETTE LID (A)/(B) ASSY, MECHANISM DECK REMOVAL

① Press the EJECT button and open the cassette lid.

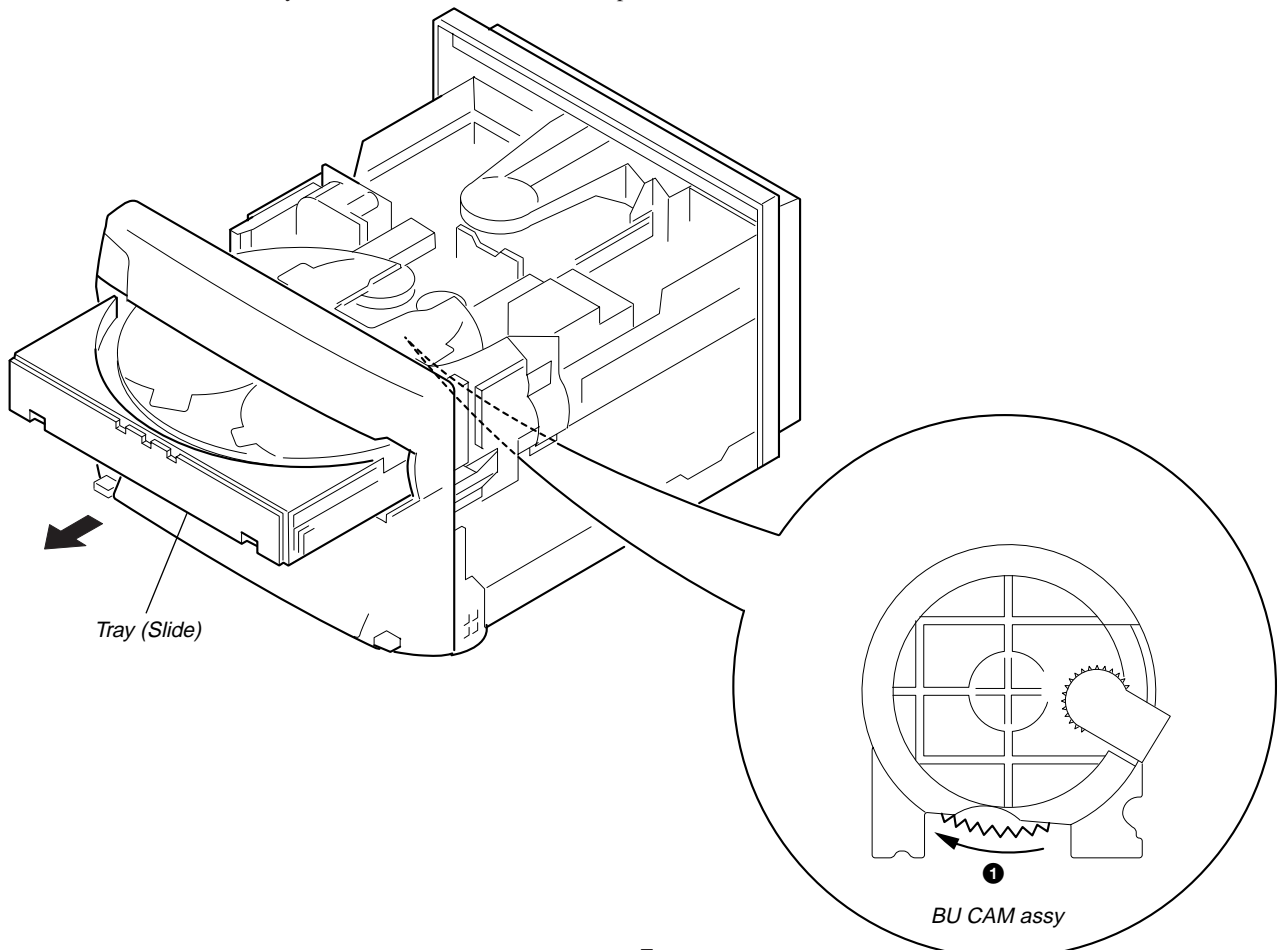


### 2-3. MAIN BOARD, RESISTOR BOARD, FRONT PANEL ASSY REMOVAL



- **Tray (Slide) getting out procedure on the power supply is OFF**

Rotate the BU CAM assembly in the direction of the arrow and pull out the slide.



## SECTION 3 ADJUSTMENTS

### 3-1. MECHANICAL ADJUSTMENT

#### PRECAUTION

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

record/playback head	pinch roller
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
Forward	CQ-102C	36 to 61g•cm (0.50 – 0.84 oz•inch)
Forward Back Tension	CQ-102C	2 to 6g•cm (0.028 – 0.083 oz•inch)
Reverse	CQ-102RC	36 to 61g•cm (0.50 – 0.84 oz•inch)
Reverse Back Tension	CQ-102RC	2 to 6g•cm (0.028 – 0.083 oz•inch)
FF, REW	CQ-201B	61 to 143g•cm (0.85 – 1.99 oz•inch)

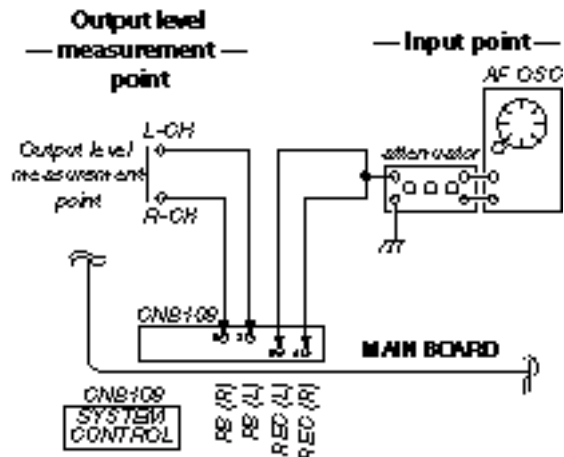
#### • Tape Tension Measurement

Mode	Tension Meter	Meter Reading
Forward	CQ-403A	more than 100 g (3.53 oz)
Reverse	CQ-403R	more than 100 g (3.53 oz)

### 3-2. ELECTRICAL ADJUSTMENT

#### DECK SECTION

1. The adjustment should be performed in the publication.  
(Be sure to make playback adjustment at first.)
2. The adjustment and measurement should be performed for both L-CH and R-CH.
  - Switch position
  - DOLBY NR switch : OFF
  - FUNCTION button : OFF
  - EFFECT switch : OFF
  - DBFB switch : OFF
3. Deck section electrical adjustments are made in test mode by press key switch same time CD STOP DECK A STOP and DECK B STOP button.
4. Input point and output level measurement point.



- Test Tape

Tape	Signal	Used for
P-4-A100	10 kHz, -10 dB	Head Azimuth Adjustment
P-4-L300	315 Hz, 0dB	Level Adjustment
WS-48B	3 kHz, 0dB	Tape Speed Adjustment

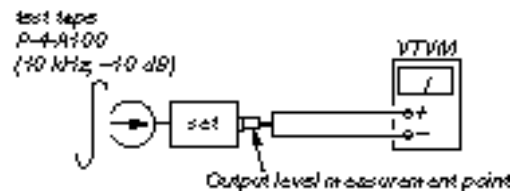
0 dB=0.775V

#### Record/Playback Head Azimuth Adjustment

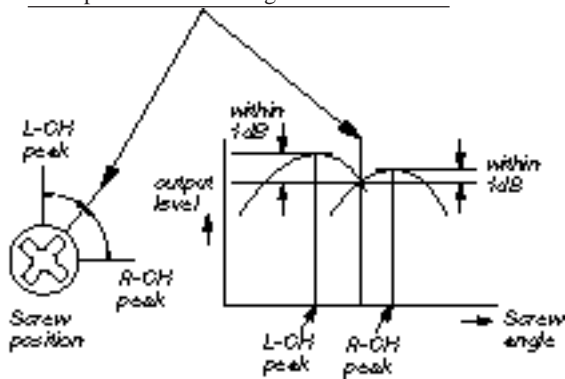
DECK A
DECK B

#### Procedure:

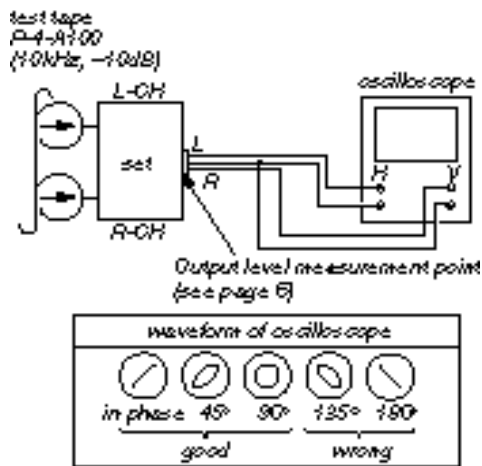
1. Forward Playback mode
- Reverse Playback mode



- 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.



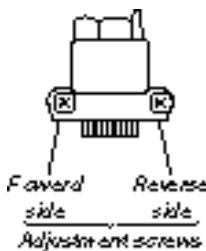
- Playback Mode



- Change the playback mode and repeat the steps 1 to 3.
- After the adjustment, lock the adjustment screw with suitable locking compound.

**Adjustment Location:**

— Record/playback head (Deck A and B) —



**Tape Speed Adjustment**

**DECK A**

**DECK B**

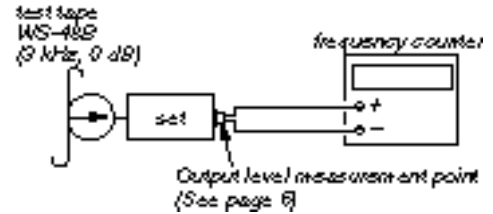
**Note:** Start the Tape Speed adjustment as below after setting to the test mode.

Set to test mode. (Press key switch same time **CD STOP** **DECK A STOP** and **DECK B STOP** button.)

Test mode off. (Power off.)

**Procedure:**

- Perform high speed adjustment before normal speed adjustment.  
Mode: Playback



Speed	Deck	Adjustment	Frequency counter
*High	A	RV652	5,910 to 6,090 Hz
	B	RV652	
Normal	A	RV651	2,910 to 3,090 Hz
	B	RV651	

\* Continue to press HIGH SPEED DUBBING switch (S259) in playback mode : High speed playback.

Frequency difference between the beginning and the end of the tape should be within  $\pm 3\%$ .

Frequency difference between deck A and deck B the beginning of the tape should be within 1.5 %.

**Adjustment Location:** AUDIO board (See page 8)

**Sample Value of Wow and flutter**

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

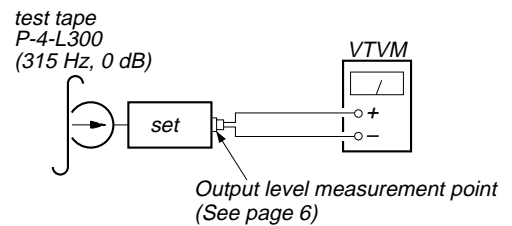
**Playback level Adjustment**

**DECK A**

**DECK B**

**Procedure:**

— FWD playback Mode —



Deck A is RV311 (L-CH) and RV411 (R-CH), Deck B is RV301 (L-CH) and RV401 (R-CH) so that adjustment within adjustment level as follows.

**Adjustment Level:**

LINE OUT level :  $-8.2$  to  $-7.2$  dB (301.5 to 338.3 mV)  
Level Difference between Channels : within 0.5 dB

Confirm the OUTPUT level does not change in playback mode while changing the mode from playback to stop several times.

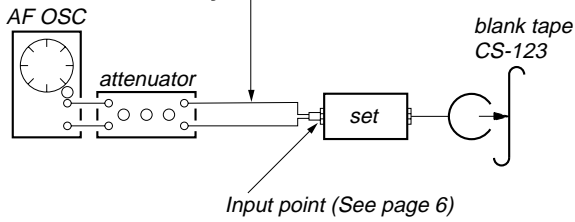
**Adjustment Location:** AUDIO board (See page 8)

## Record Bias Adjustment DECK B

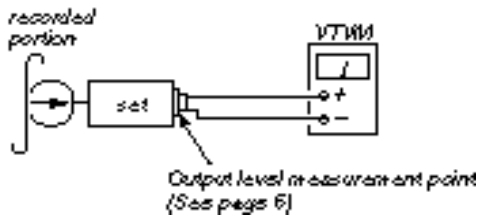
### Procedure:

1. Record mode

- 1) 315 Hz } 69.0mV (-23.8dB) : STR-W550/W770AV
- 2) 10 kHz } 38.8mV (-26dB) : jig (PFJ-1)



2. Mode: Playback



3. Confirm playback the signal recorded in step 1 become adjustment level as follows.
4. If these levels do not adjustment level, adjustment the RV341 (L-CH) and RV441 (R-CH) to repeat steps 1 and 4.

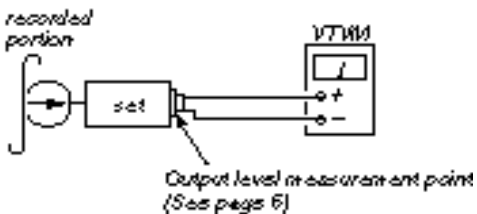
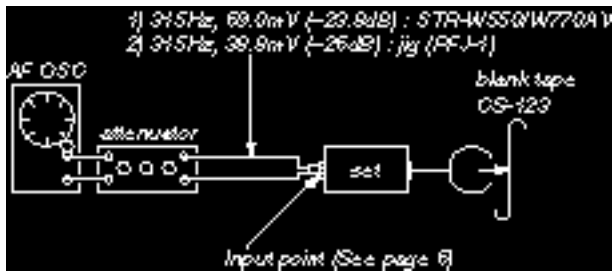
**Adjustment level:** Playback output of 315 Hz to playback output of 10 kHz:  $0 \pm 1.0$  dB ( $0 \pm 4.5$ mV).

**Adjustment Location:** AUDIO board

## Record Level Adjustment DECK B

### Procedure:

1. Record mode



2. Playback mode
3. Confirm playback the signal recorded in step 1 become adjustment level as follows.
4. If these levels do not adjustment level, adjustment the RV401 (L-CH) and RV451 (R-CH) to repeat steps 1 and 4.

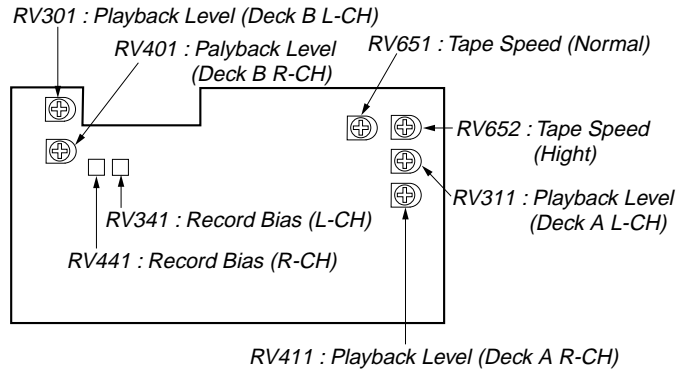
### Adjustment Level:

OUTPUT level:  $-23.8$  dB  $\pm$  1.0 dB (56.1 to 44.6 mV)

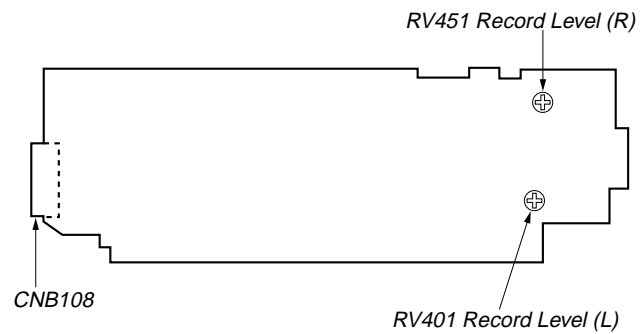
**Adjustment Location:** MAIN board

### Adjustment Location :

**[AUDIO BOARD]** — Component Side —



**[MAIN BOARD]** — Component Side —



## CD SECTION

Note :

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

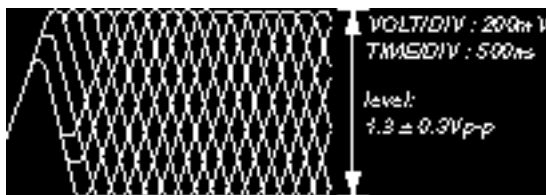
### Focus Bias check



#### Procedure:

1. Connect oscilloscope to test point TP (RF). (GND terminal : VC)
2. Turned Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Confirm that the shape “ ” can be clearly distinguished at the center of the waveform and check the RF signal level.

#### • RF signal



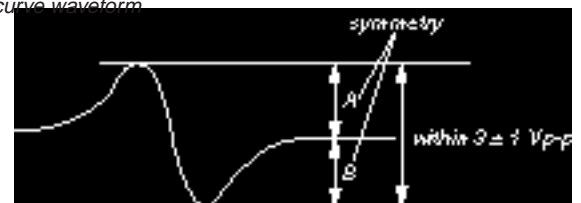
### S Curve Check



#### Procedure:

1. Connect oscilloscope to test point TP (FEO).
2. Connect between test point TP (FOK) and GND by lead wire.
3. Turn Power switch on.
4. Put disc (YEDS-18) in and turned Power switch on again and actuate the focus search. (actuate the focus search when disc table is moving in and out.)
5. Check the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within  $3 \pm 1$  Vp-p.

#### S-curve waveform



6. After check, remove the lead wire connected in step 2.
- Note:
- Try to measure several times to make sure than the ratio of A : B or B : A is more than 10 : 7.
  - Take sweep time as long as possible and light up the brightness to obtain best waveform.

### RF Level Check



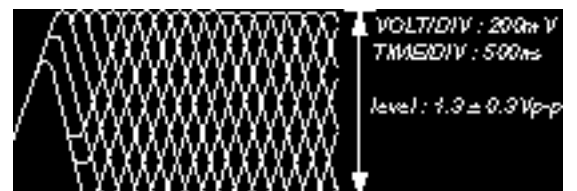
#### Procedure:

1. Connect oscilloscope to test point TP (RF) on BD board.
2. Turned Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

Note:

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

#### • RF signal



**E-F Balance (1 Track Jump) check  
(Without remote commander)**



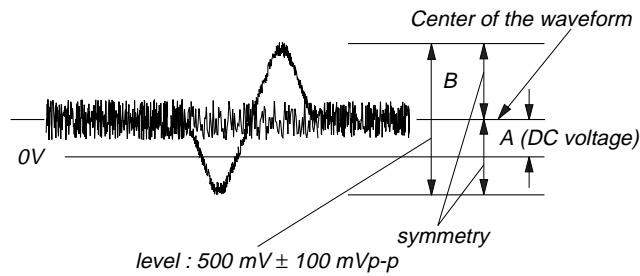
**Procedure:**

1. Connect oscilloscope to test point TP (TEO) on BD board.
2. Turned Power switch on.
3. Put disc (YEDS-18) in to play the number five track.
4. Press the "P (Pause)" button. (Becomes the 1 track jump mode)
5. Check the level B of the oscilloscope's waveform and the A (DC voltage) of the center of the Traverse waveform.

Confirm the following:

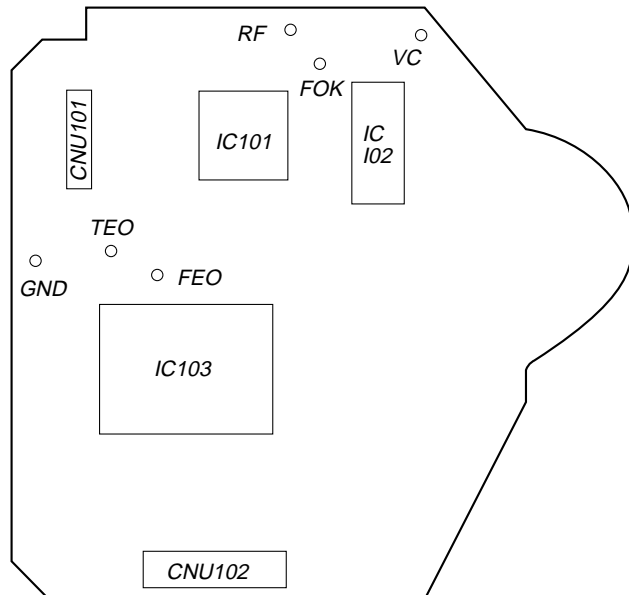
$$\frac{A - B}{2(A + B)} \times 100 = \pm 7 (\%)$$

1 track jump waveform



**Adjustment Location:**

**[BD BOARD]** (Conductor Side)






# HCD-W550

## 4-3. SCHEMATIC DIAGRAM — AUDIO SECTION —

### Note:







- All capacitors are in  $\mu\text{F}$  unless otherwise noted. pF:  $\mu\mu\text{F}$  50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and 1/4W or less unless otherwise specified.
-  : fusible resistor

#### Note :

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

#### Note :

Les composants identifiés par une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

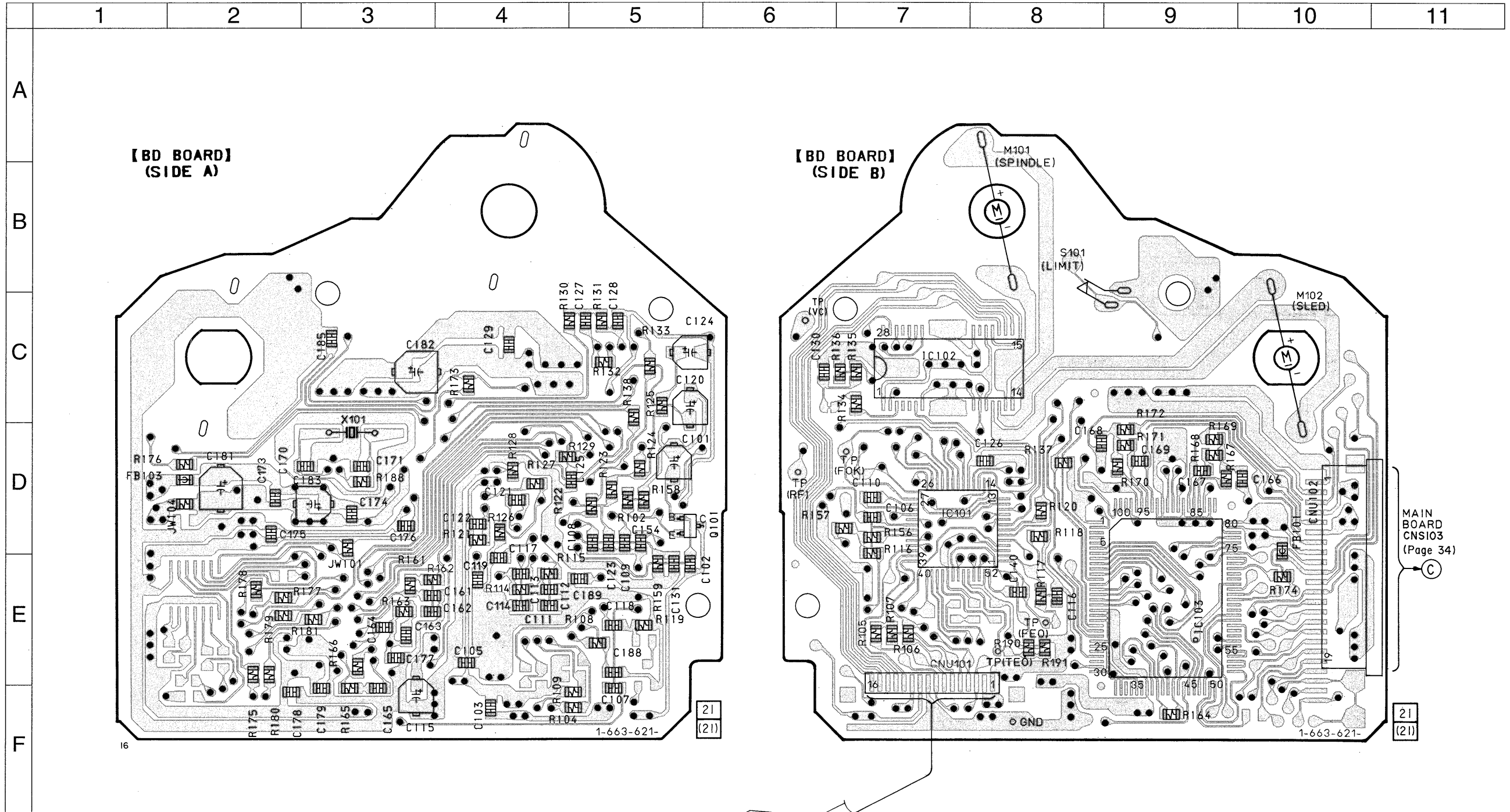
-  : B+ Line.
-  : B- Line.
-  : Adjustment for repair.
- Voltages are taken with a VOM (Input impedance 10M $\Omega$ ). Voltage variations may be noted due to normal production tolerances.  
No mark : PLAY
- Voltage variations may be noted due to normal production tolerances.
- Signal path  
 : PB (DECK A)  : PB (DECK B)  : REC (DECK B)





# HCD-W550

## 4-5. PRINTED WIRING BOARD — BD SECTION —



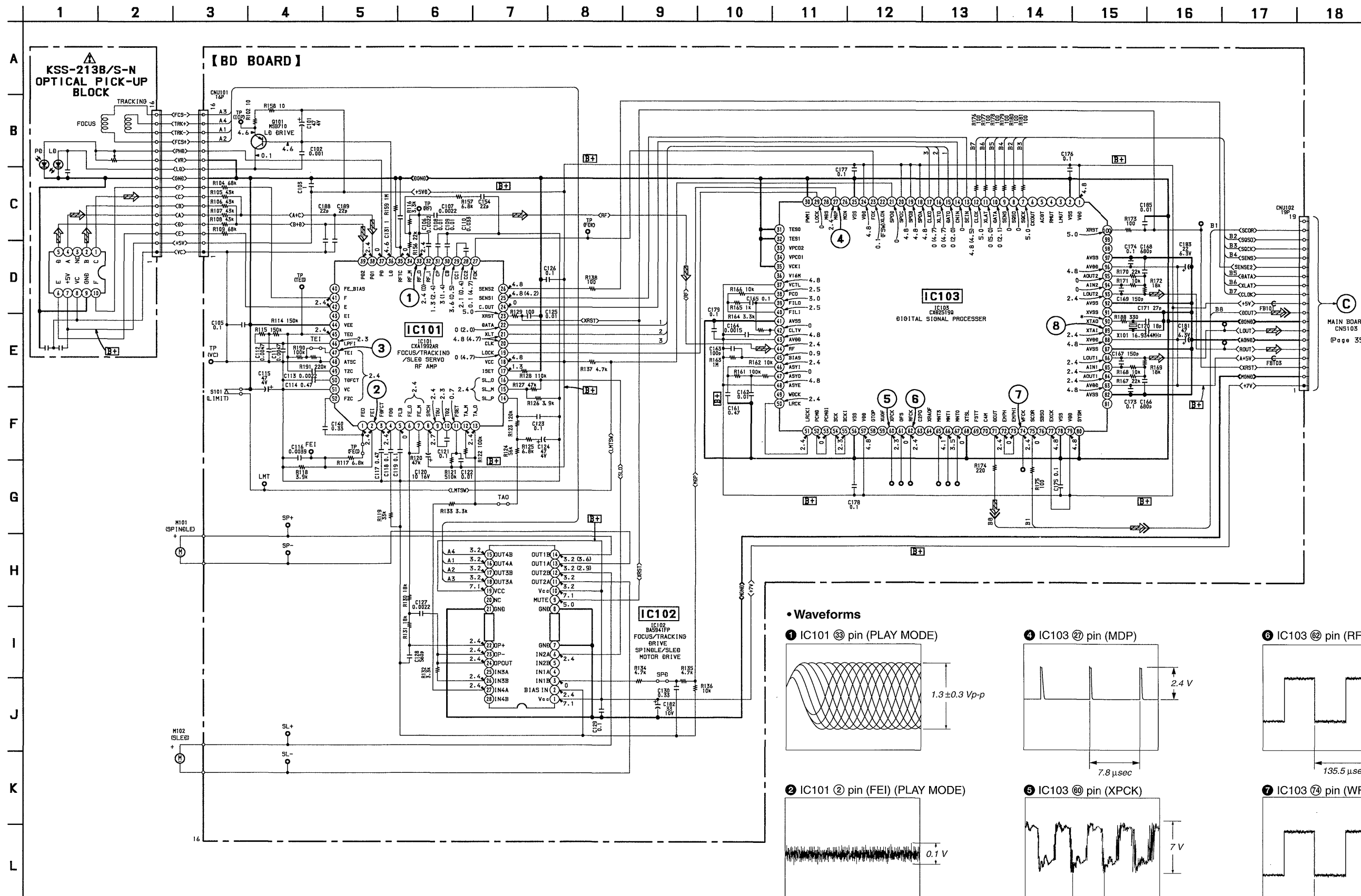
### • Semiconductor Location

Ref. No.	Location
IC101	D-7
IC102	C-7
IC103	E-9
Q101	D-5

### Note:

- — : Parts extracted from the component side.
- ● : Through hole.
- — : Pattern on the side which is seen.

4-6. SCHEMATIC DIAGRAM — BD SECTION —

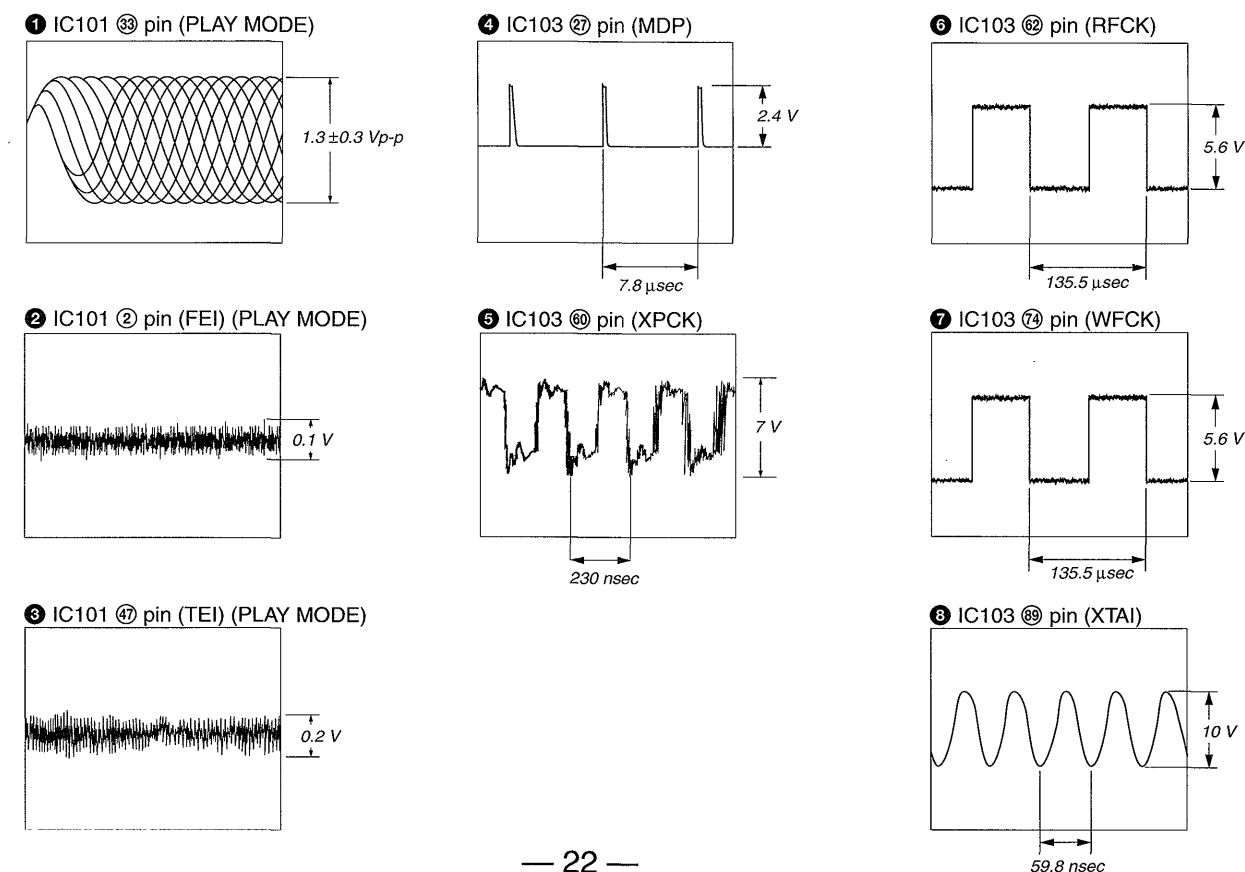


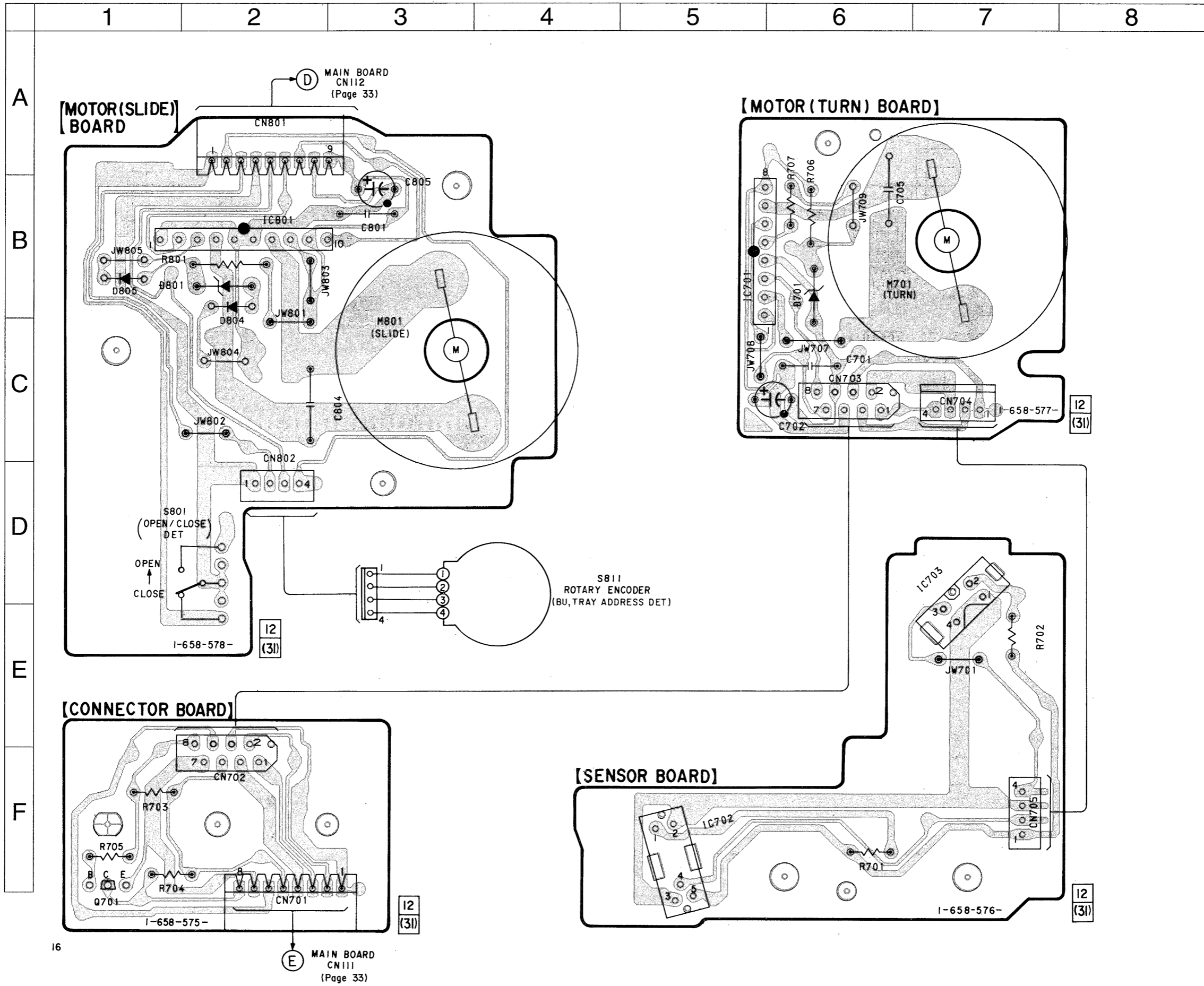
**Note:**  
 • All capacitors are in  $\mu\text{F}$  unless otherwise noted. pF:  $\mu\text{F}$  50WV or less are not indicated except for electrolytics and tantalums.  
 • All resistors are in  $\Omega$  and 1/4W or less unless otherwise specified.

<p><b>Note :</b>                  The components identified by mark <math>\Delta</math> or dotted line with mark <math>\Delta</math> are critical for safety. Replace only with part number specified.</p>	<p><b>Note :</b>                  Les composants identifiés par une marque <math>\Delta</math> sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.</p>
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- $\boxed{B+}$  : B+ Line.
- Voltages are taken with a VOM (Input impedance 10M $\Omega$ ). Voltage variations may be noted due to normal production tolerances.
- No mark : STOP ( ) : PLAY
- Waveforms are taken with an oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Signal path  $\Rightarrow$  : CD  $\Rightarrow$  : DIGITAL OUT

• Waveforms





• Semiconductor Location

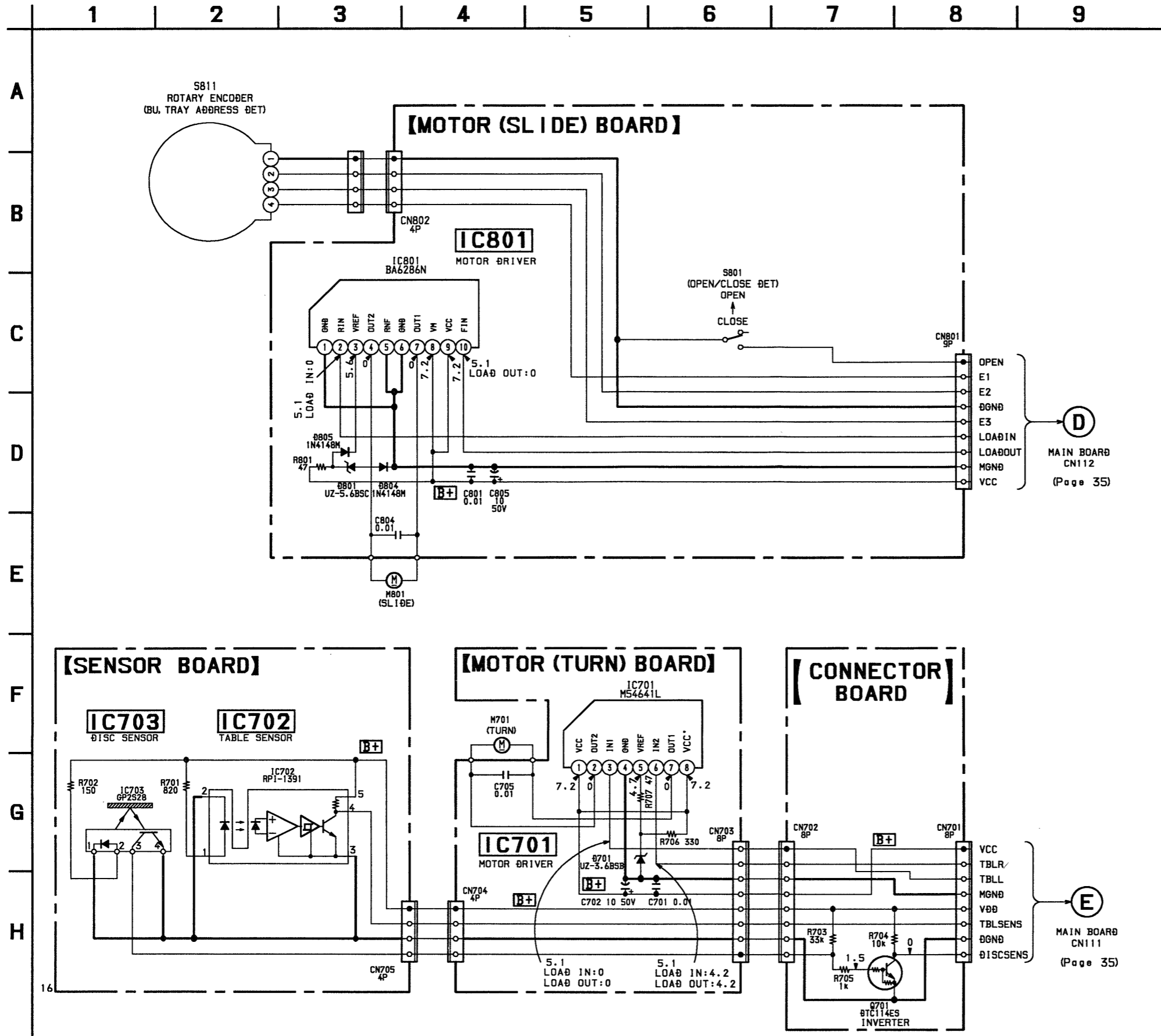
Ref. No.	Location
D701	B-6
D801	B-2
D804	B-2
D805	B-1
Q701	F-1
IC701	B-5
IC702	F-5
IC703	D-7
IC801	B-2

16

E MAIN BOARD  
CN111  
(Page 33)

**Note:**  
 • — : Parts extracted from the component side.  
 • ● : Through hole.  
 • — : Pattern on the side which is seen.

4-8. SCHEMATIC DIAGRAM — MOTOR SECTION —

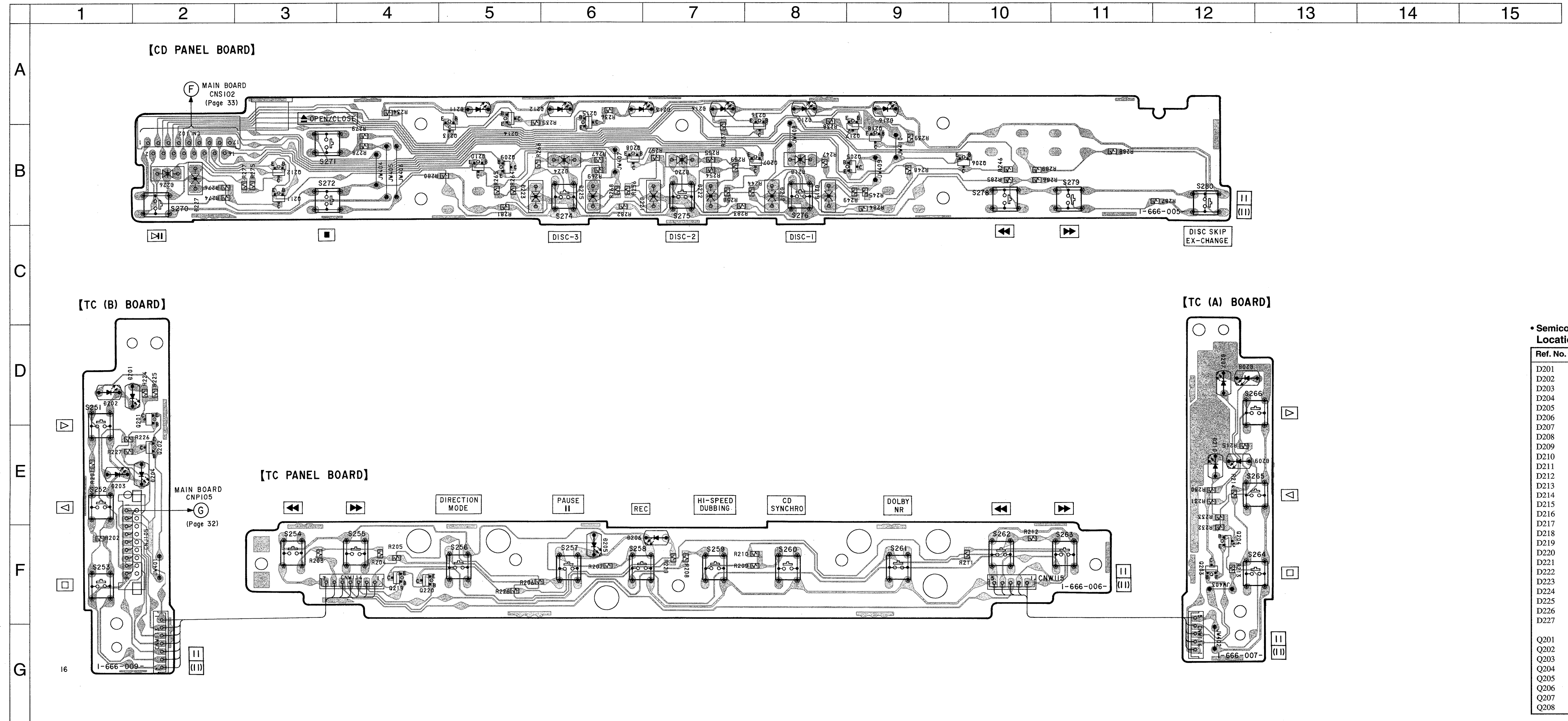


Note:

- All capacitors are in  $\mu\text{F}$  unless otherwise noted. pF:  $\mu\text{F}$  50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and 1/4W or less unless otherwise specified.
- [B+]: B+ Line.
- Voltages are taken with a VOM (Input impedance 10M $\Omega$ ). Voltage variations may be noted due to normal production tolerances.
- No mark: STOP
- Voltage variations may be noted due to normal production tolerances.



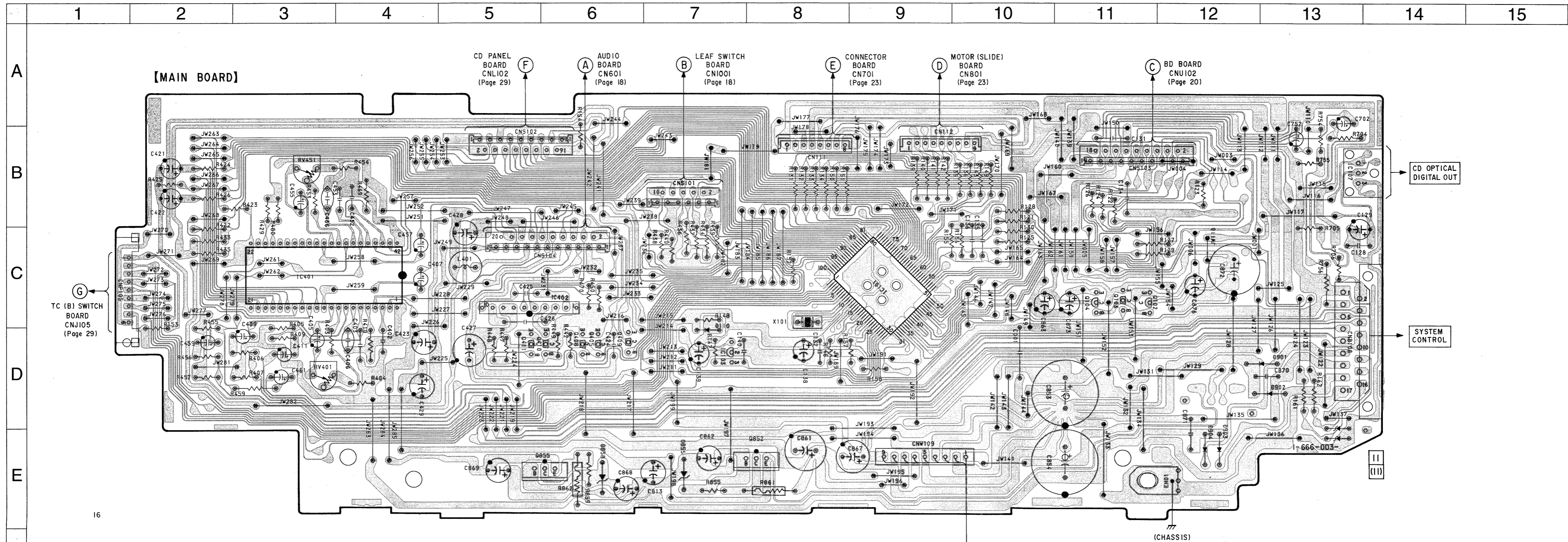
4-10. PRINTED WIRING BOARD — PANEL SECTION —



• Semiconductor Location

Ref. No.	Location
D201	D-2
D202	D-1
D203	E-1
D204	E-2
D205	F-7
D206	F-7
D207	D-12
D208	D-13
D209	E-12
D210	E-12
D211	A-5
D212	A-6
D213	A-7
D214	A-7
D215	A-8
D216	A-9
D217	B-8
D218	B-8
D219	B-8
D220	B-7
D221	B-7
D222	B-7
D223	B-5
D224	B-6
D225	B-6
D226	B-2
D227	B-2
Q201	D-2
Q202	E-2
Q203	F-12
Q204	F-12
Q205	B-9
Q206	B-10
Q207	B-8
Q208	B-6

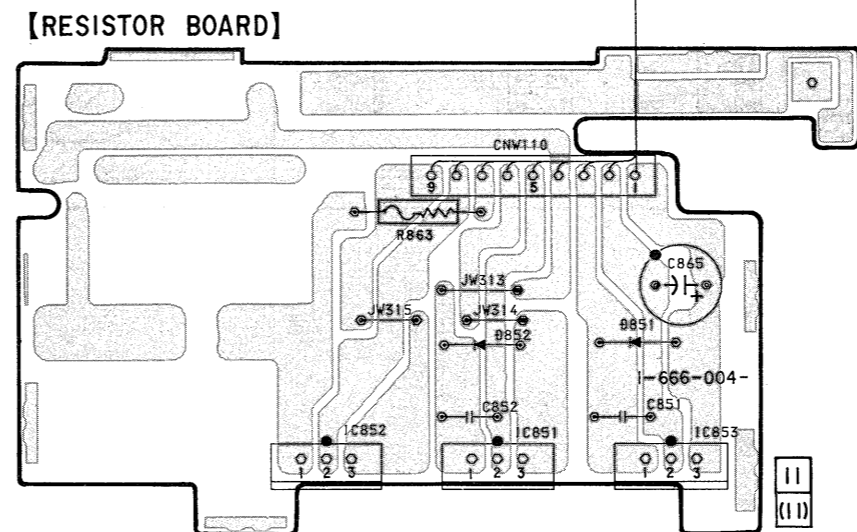
Note:  
 • — : Parts extracted from the component side.  
 • — : Pattern on the side which is seen.



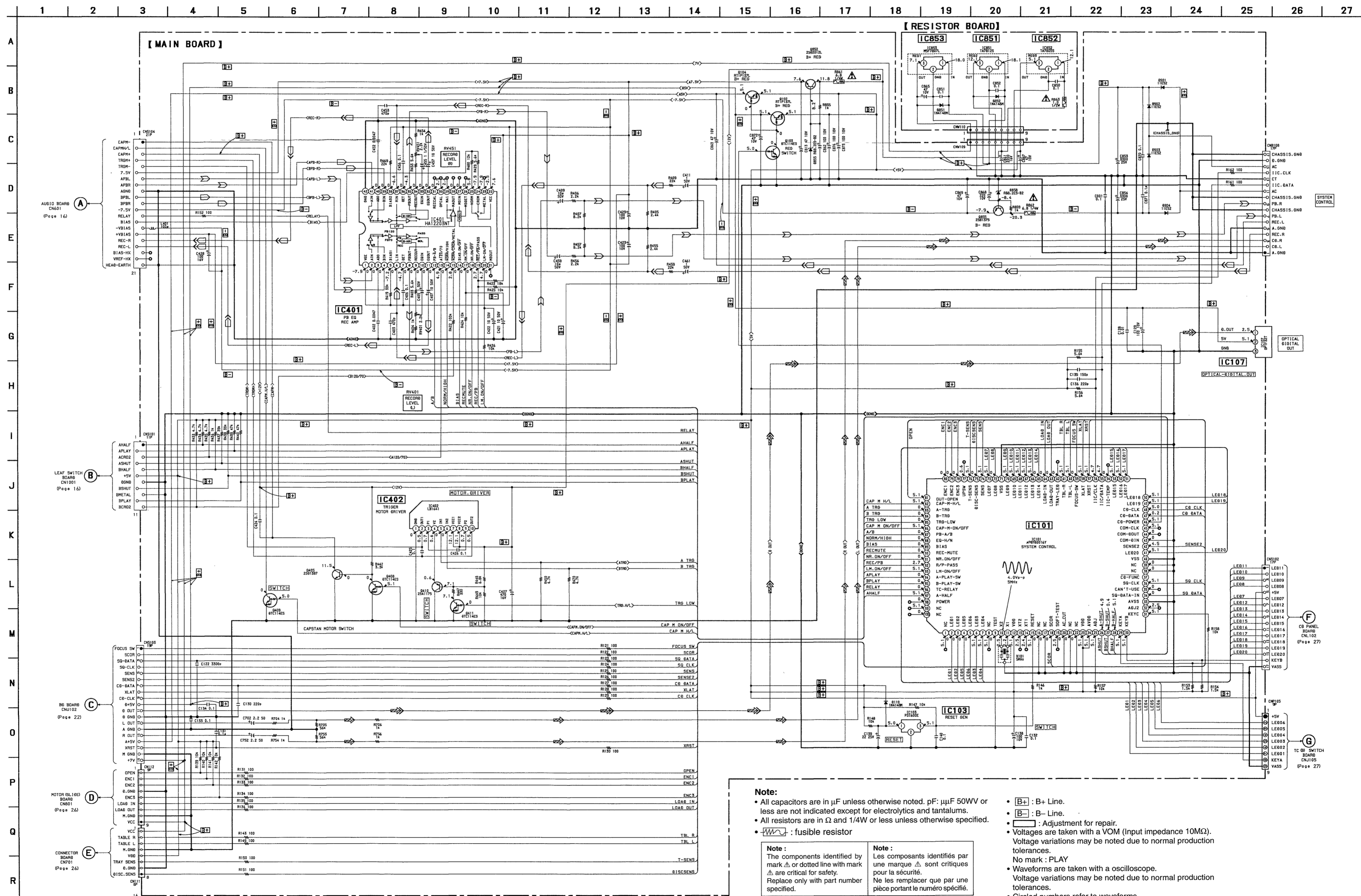
• Semiconductor Location

Ref. No.	Location
D110	D-7
D855	E-7
D858	E-6
D901	D-13
D902	D-13
D903	E-12
D904	E-12
IC101	C-9
IC103	D-7
IC107	B-13
IC401	C-3
IC402	C-6
Q102	C-11
Q103	C-11
Q104	C-11
Q405	D-6
Q408	D-6
Q409	D-6
Q410	D-6
Q411	D-5
Q852	E-8
Q855	E-6

Note:  
 • : Parts extracted from the component side.  
 • : Pattern on the side which is seen.



4-12. SCHEMATIC DIAGRAM — MAIN SECTION —



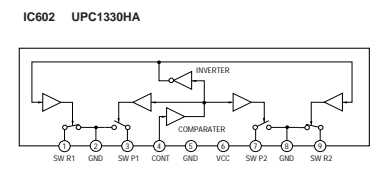
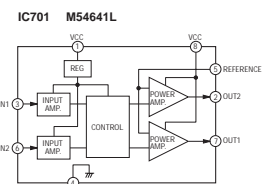
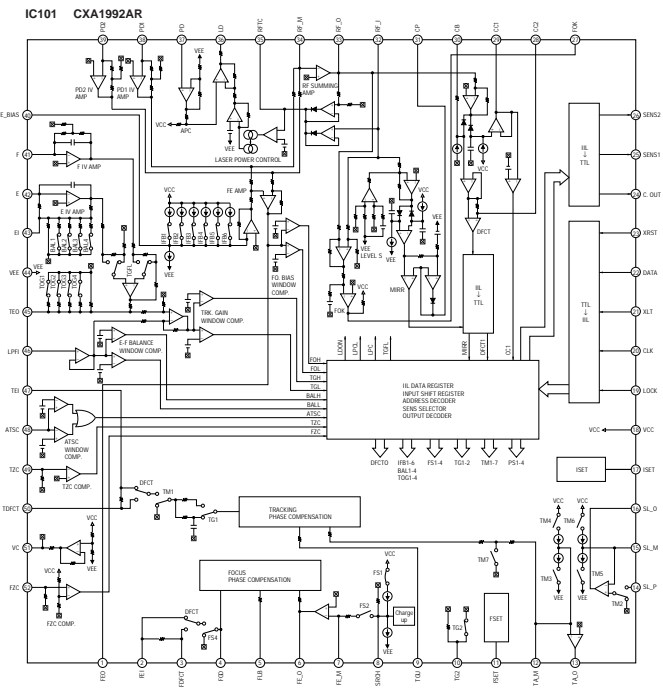
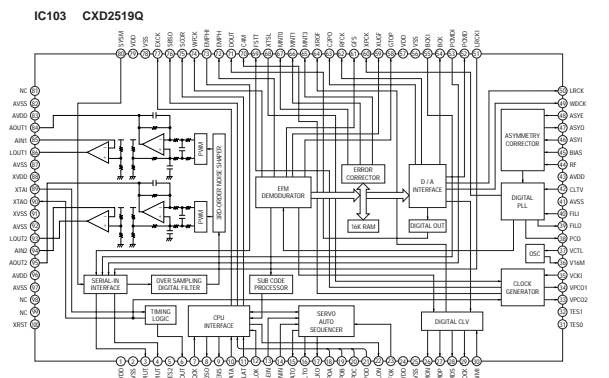
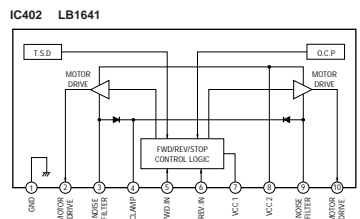
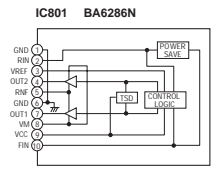
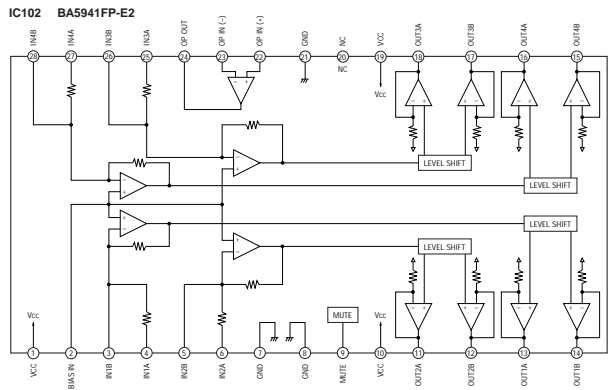
**Note:**  
 • All capacitors are in  $\mu\text{F}$  unless otherwise noted.  $\text{pF}$ :  $\mu\text{F}$  50VW or less are not indicated except for electrolytics and tantalums.  
 • All resistors are in  $\Omega$  and 1/4W or less unless otherwise specified.  
 • : fusible resistor

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

**Note:**  
 Les composants identifiés par une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- : B+ Line.
- : B- Line.
- : Adjustment for repair.
- Voltages are taken with a VOM (Input impedance 10M $\Omega$ ). Voltage variations may be noted due to normal production tolerances.
- No mark : PLAY
- Waveforms are taken with an oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Signal path
- Circled numbers refer to waveforms.
- : PB (DECK A) : PB (DECK B) : REC (DECK B)
- : DIGITAL OUT : CD

4-13. IC BLOCK DIAGRAMS



4-14. IC PIN FUNCTION  
• IC101 SYSTEM CONTROL (UPD780016YGF-016-3BA)

Pin No.	Pin Name	I/O	Description
1	NC	—	Not used.
2	LED 1	O	LED control.
3	LED 2	O	LED control.
4	LED 5	O	LED control.
5	LED 6	O	LED control.
6	LED 3	O	LED control.
7	LED 4	O	LED control.
8	NC	—	Not used.
9	Test	—	Ground.
10	X2	O	X'tal (5MHz).
11	X1	I	X'tal (5MHz).
12	Vdd	—	5V.
13	XT2	—	Not used.
14	XT1	—	Not used.
15	Reset	I	Reset signal input.
16	NC	—	Not used.
17	NC	—	Not used.
18	SCOR	I	CD Q data request.
19	SOFT TEST	O	Soft operation check port.
20	AC CUT	I	AC power supply check.
21	NC	—	Not used.
22	NC	—	Not used.
23	Vdd	—	5V.
24	AVdd	—	5V.
25	ADJ	I	CD adjustment port.
26	A SHUT	I	Reel pulse detection.
27	B SHUT	I	Reel pulse detection.
28	B-HALF	I	Cassette half detection.
29	KEY A	I	Key input.
30	KEY B	I	Key input.
31	KEY C	I	Key input.
32	ADJ 2	—	Not used.
33	AVSS	—	Ground.
34	SQ DATA IN	I	CD data input.
35	NO USE	—	Not used.
36	SQ CLK	O	Clock for data input.
37	CD-FUNC	—	Not used.
38	NC	—	Ground.
39	NC	—	Ground.
40	VSS	—	Ground.
41	LED 20	—	Not used.
42	SENSE2	I	BD status input.
43	COM D IN	—	Ground.
44	COM D OUT	—	Not used.
45	COM CLK	—	Not used.
46	CD POWER	O	CD power.
47	CD DATA	O	CD data output.
48	CD CLK	O	CD clock.
49	LED 19	O	LED control.
50	LED 18	O	LED control.

Pin No.	Pin Name	I/O	Description
51	LED 17	O	LED control.
52	LED 16	O	LED control.
53	LED 15	O	LED control.
54	IIC-TEMP	—	Not used.
55	IIC DATA	I/O	Communciation data.
56	IIC CLK	I/O	Comunicaton clock.
57	XRST	O	CD reset.
58	XLAT	O	CD latch.
59	FOCUS SW	O	Focus switch.
60	TBL L	O	Table-L.
61	TBL R	O	Table-R.
62	TRAY LED	—	Not used.
63	LOAD OUT	O	Load out.
64	LOAD IN	I	Load in.
65	LED 14	O	LED control.
66	LED 13	O	LED control.
67	LED 12	O	LED control.
68	LED 11	O	LED control.
69	LED 10	O	LED control.
70	LED 9	O	LED control.
71	Vss	—	Ground.
72	LED 8	O	LED control.
73	LED 7	O	LED control.
74	SENS	I	BD status input.
75	DISC SENS	I	Disc sensor.
76	T-SENS	I	Table sensor.
77	UPSW	—	Not used.
78	ENC3	I	Encoder input for CDM38.
79	ENC2	I	Encoder input for CDM38.
80	ENC1	I	Encoder input for CDM38.
81	OUT OPEN	I	Encoder input for CDM38.
82	CAP M H/N	O	Capstan motor H/N selection.
83	A TRG	O	Mechanism timing output control.
84	B TRG	O	Mechanism timing output control.
85	TRG LOW	O	Mechanism timing output control.
86	CAP M ON/OFF	O	Capstan motor ON/OFF switch.
87	PB A/B	O	Playback A/B selection.
88	EQ H/N	O	Equalizer H/L selection.
89	BIAS	O	Bias ON/OFF.
90	REC MUTE	O	REC mute.
91	NR ON/OFF	O	NR ON/OFF.
92	R/P PASS	I/O	REC/PB/PASS select.
93	LM-ON/OFF	O	TC mute.
94	A PLAY SW	I	Mechanism PLAY switch.
95	B PLAY SW	I	Mechanism PLAY switch.
96	TC RELAY	O	Head selection.
97	A HALF	I	Cassette half detection.
98	POWER	—	Not used.
99	NC	—	Not used.
100	NC	—	Not used.

## SECTION 5 EXPLODED VIEWS

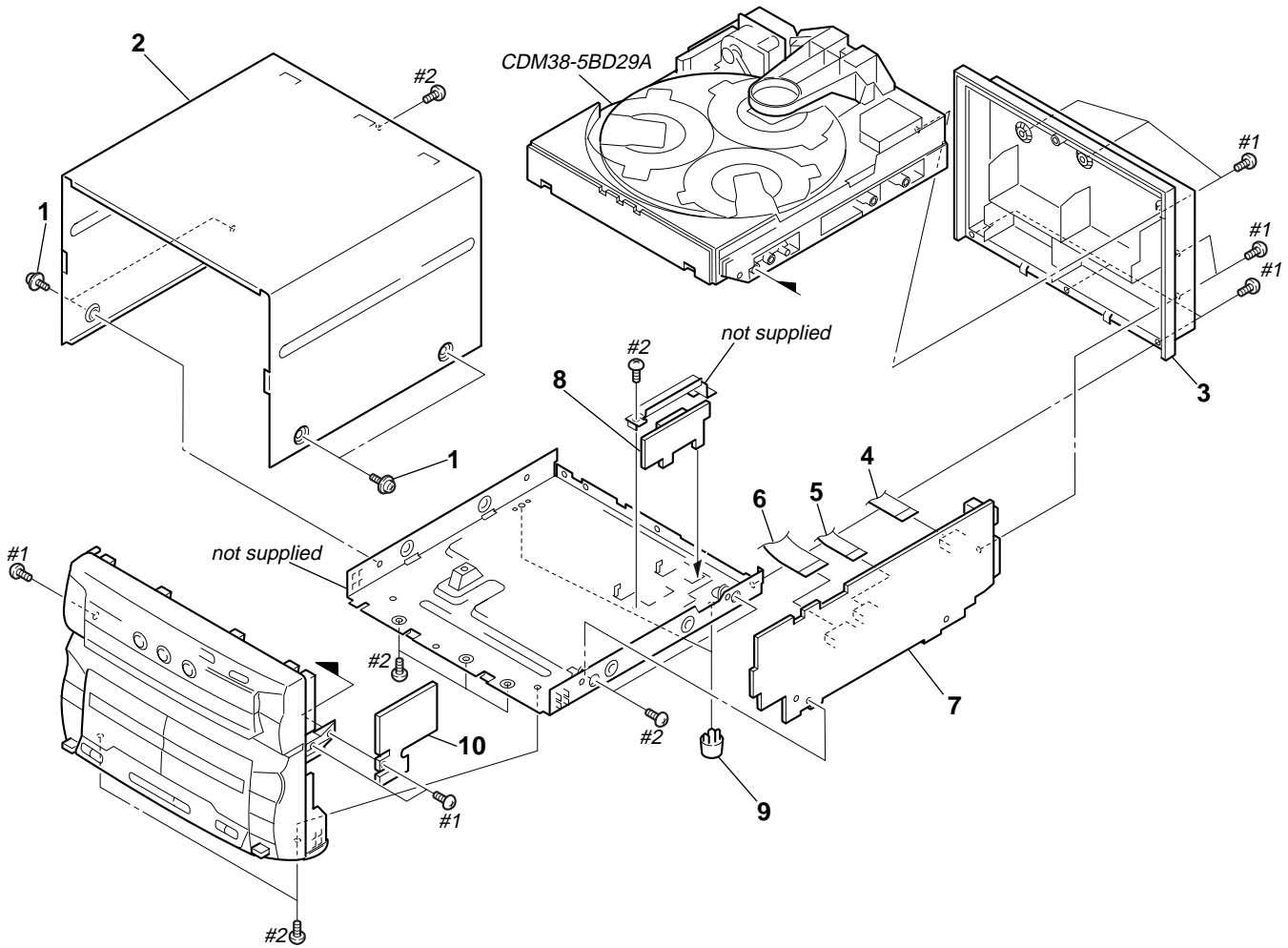
**Note:**

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

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

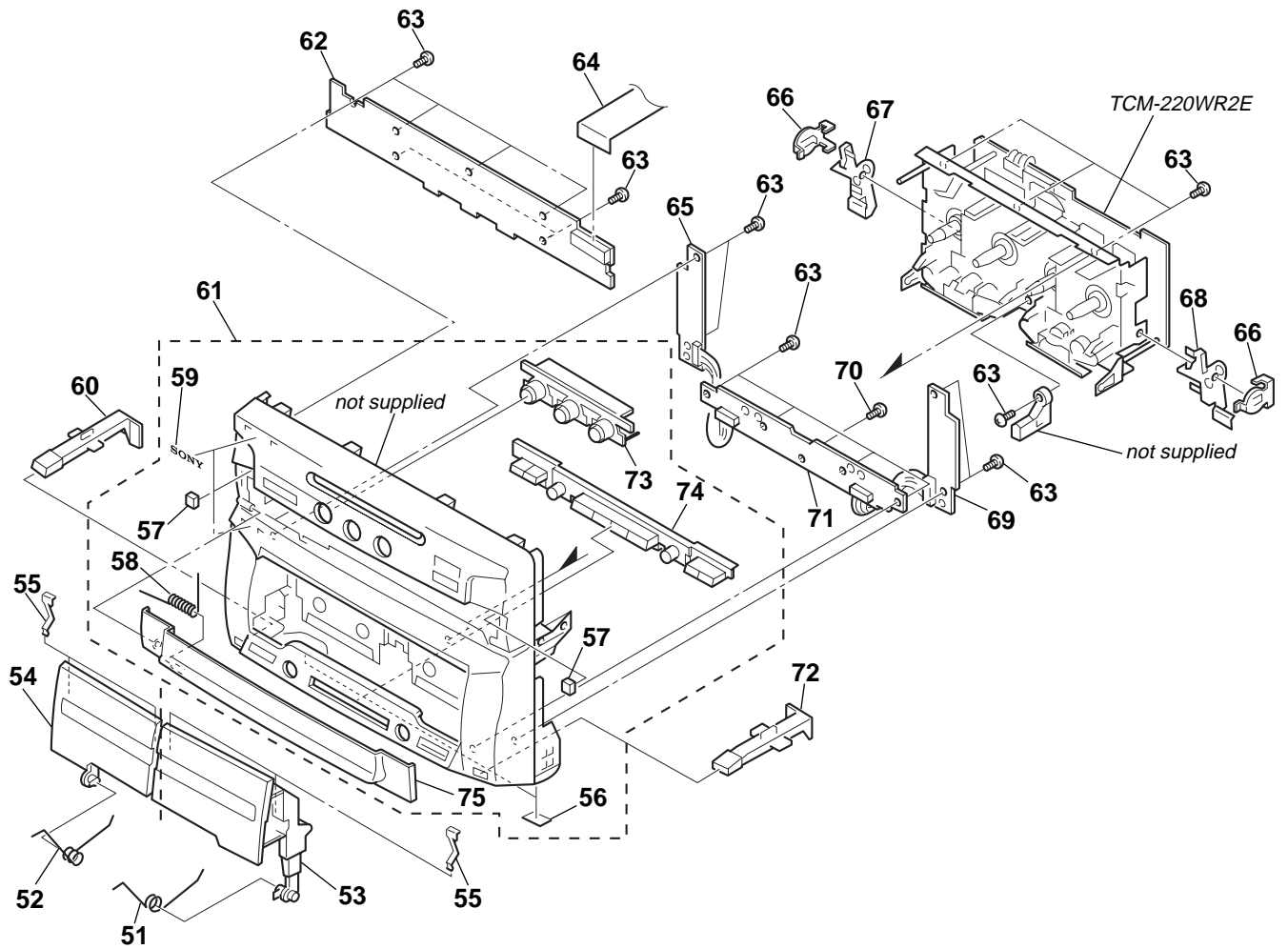
Les composants identifiés par une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

### 5-1. MAIN SECTION



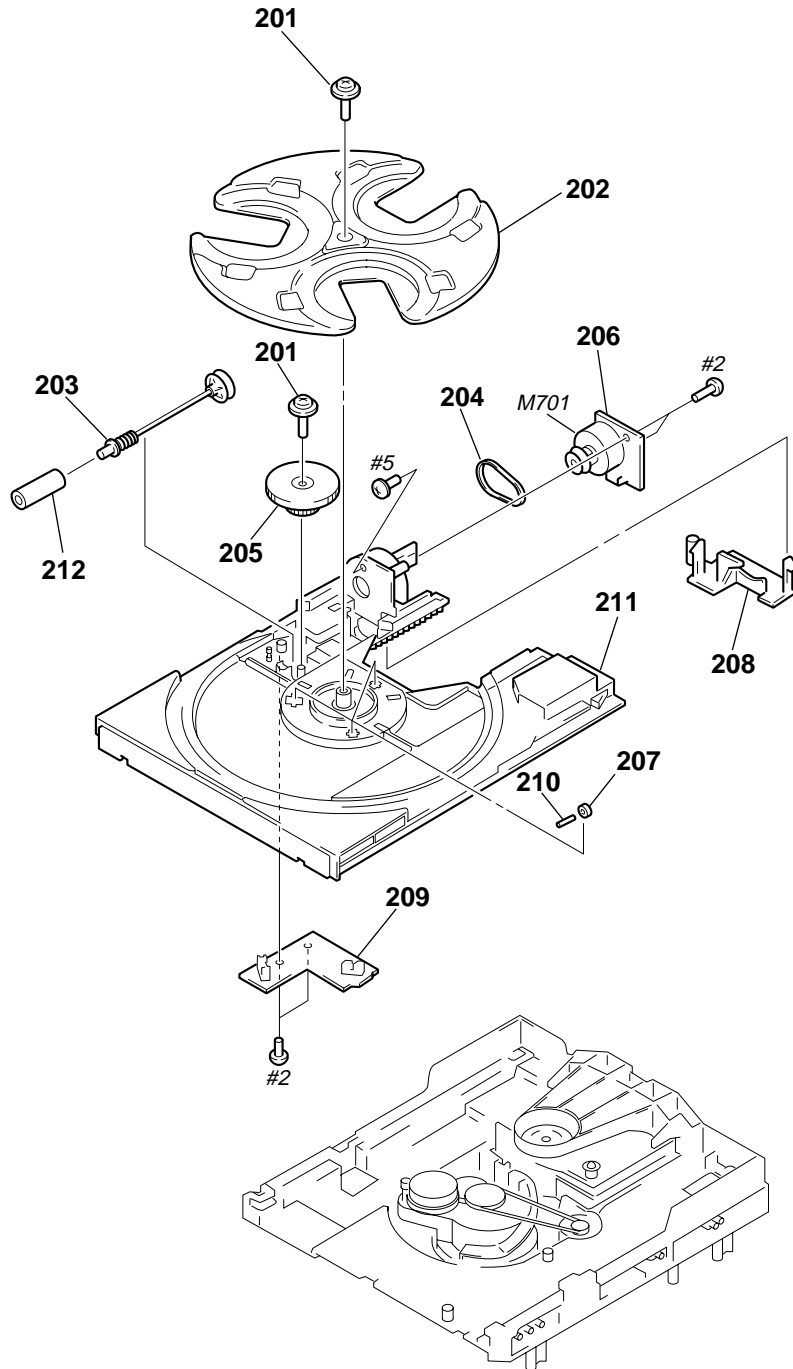
Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
1	3-363-099-11	SCREW (CASE 3 TP2)		6	1-773-155-11	WIRE (FLAT TYPE) (21 CORE)	
* 2	4-991-364-31	CASE		* 7	A-4398-493-A	MAIN BOARD, COMPLETE	
* 3	4-991-349-01	PANEL, BACK		* 8	1-666-004-11	RESISTOR BOARD	
4	1-773-112-11	WIRE (FLAT TYPE) (19 CORE)		9	4-970-381-11	FOOT (REAR)	
5	1-765-325-11	WIRE (FLAT TYPE) (11 CORE)		* 10	1-666-009-11	DUMMY BOARD	

## 5-2. FRONT PANEL SECTION



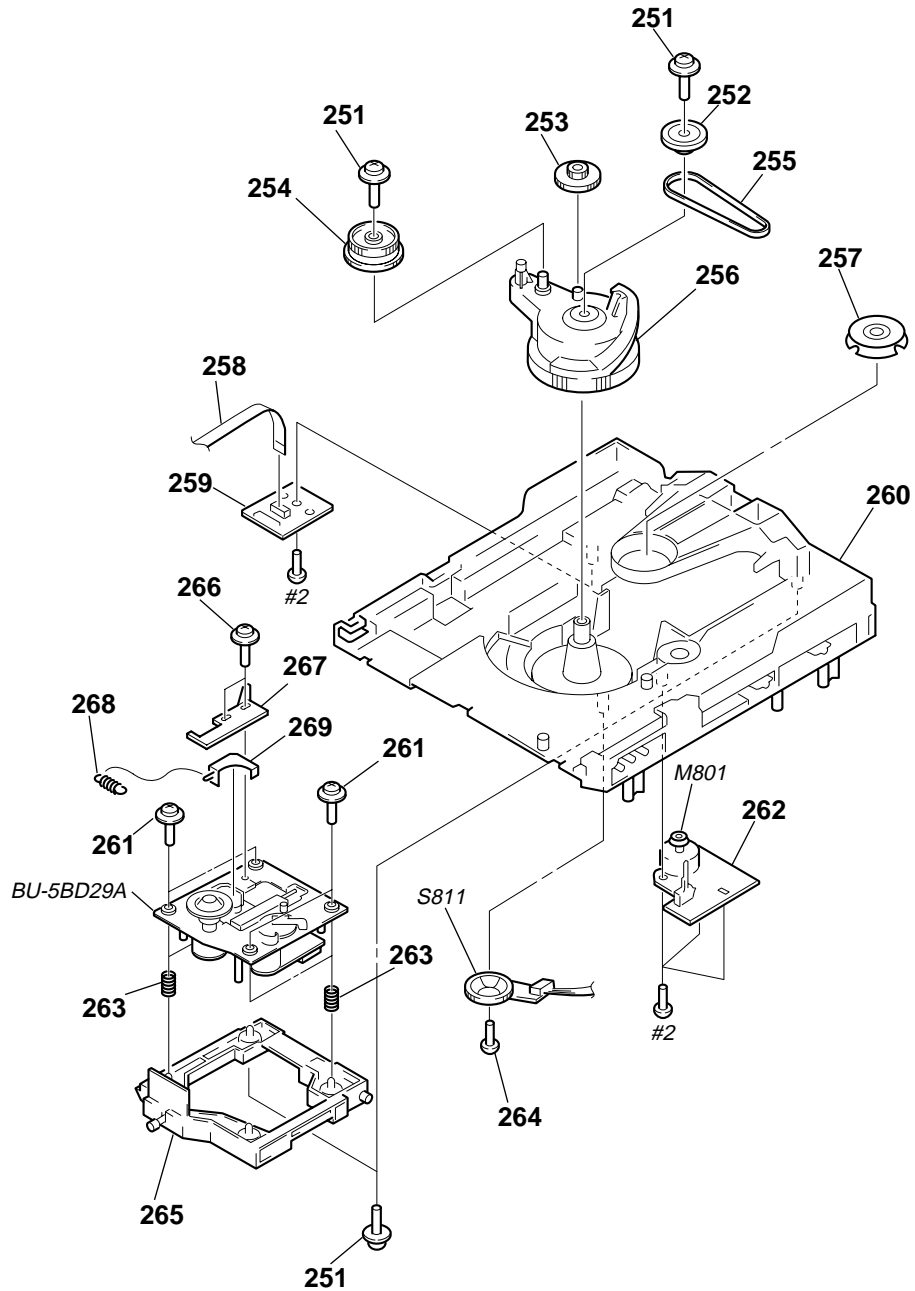
Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
51	4-959-232-11	SPRING (R), TORSION		64	1-773-053-11	WIRE (FLAT TYPE) (17 CORE)	
52	4-959-231-11	SPRING (L), TORSION		* 65	1-666-007-11	TC (A) BOARD	
53	X-4948-605-1	LID (B) ASSY, CASSETTE		66	3-354-957-01	JOINT (LOCK LEVER)	
54	X-4948-604-1	LID (A) ASSY, CASSETTE		* 67	3-354-953-01	LEVER (LOCK LEVER L)	
55	4-959-229-11	DETENT, CASSETTE		* 68	3-354-954-01	LEVER (LOCK LEVER R)	
56	4-977-358-11	CUSHION (8X12.5)		* 69	1-666-008-11	TC (B) BOARD	
57	4-991-366-01	CUSHION		70	4-951-620-11	SCREW (2.6X10), +BVTP	
58	4-991-795-11	SPRING		* 71	A-4398-496-A	TC PANEL BOARD, COMPLETE	
59	4-962-708-11	EMBLEM (4-A), SONY		72	4-991-342-01	BUTTON (EJECT B)	
60	4-991-341-01	BUTTON (EJECT A)		73	X-4948-607-1	BUTTON (3CD) ASSY	
61	X-4948-606-1	PANEL ASSY, FRONT		74	X-4948-608-1	BUTTON (TC) ASSY	
* 62	A-4398-495-A	CD PANEL BOARD, COMPLETE		75	4-991-332-01	PANEL, LOADING	
63	4-951-620-01	SCREW (2.6X8), +BVTP					

5-3. CD MECHANISM DECK SECTION-1  
(CDM38-5BD29A)



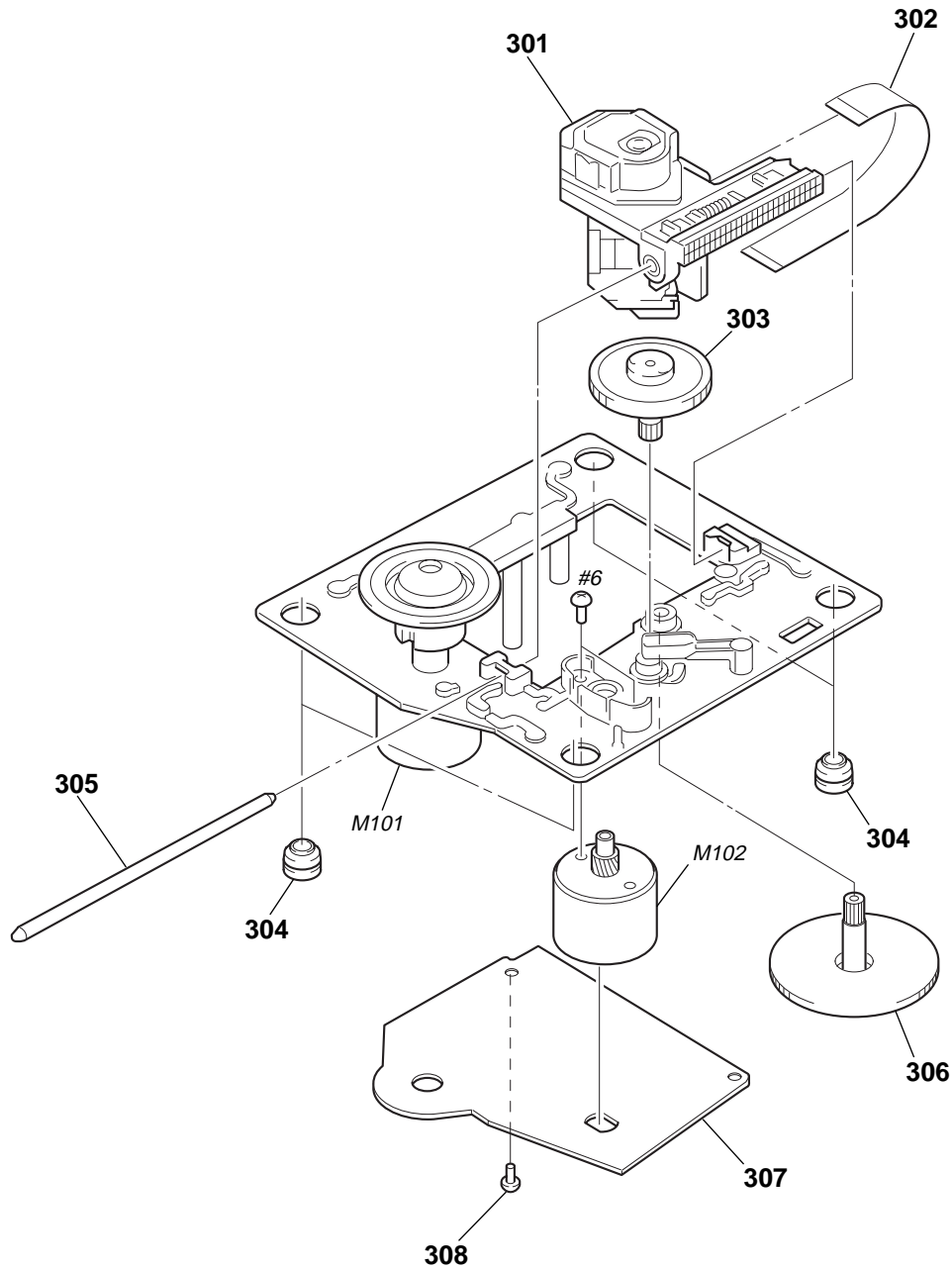
Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
201	4-917-583-21	BRACKET, YOKE		208	4-977-941-01	BEARING (WORM)	
202	4-977-945-01	TRAY (TURN)		* 209	1-658-576-11	SENSOR BOARD	
203	X-4946-665-1	SHAFT ASSY, WORM		210	4-934-376-01	SHAFT (ROLLER)	
204	4-977-943-01	BELT (TURN) (1.2)		211	4-977-944-01	TRAY (SLIDE)	
205	4-977-956-01	WHEEL, WORM		212	4-981-187-01	COLLAR (WORM)	
* 206	1-658-577-11	MOTOR (TURN) BOARD		M701	A-4672-004-A	MOTOR ASSY (TURN)	
207	X-4924-457-11	ROLLER ASSY					

5-4. CD MECHANISM DECK SECTION-2  
(CDM38-5BD29A)



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
251	4-917-583-71	BRACKET, YOKE		* 262	1-658-578-11	MOTOR (SLIDE) BOARD	
252	4-977-954-01	PULLEY (SL)		263	4-982-447-01	SPRING (BU), COMPRESSION	
253	4-977-953-01	GEAR (SL-A)		264	4-951-620-41	SCREW (2.6), +BVTP	
254	4-977-955-01	GEAR (SL-B)		* 265	X-4946-666-1	HOLDER (BU) ASSY	
255	4-977-942-01	BELT (SL) (1.4)		266	4-989-494-01	SCREW (SLIDER), STEP	
256	X-4946-667-1	CAM ASSY, BU		267	4-989-492-11	SLIDER (38)	
257	1-452-538-11	MAGNET		268	4-989-819-02	SPRING, TENSION	
258	1-776-042-11	WIRE (FLAT TYPE) (8 CORE)		269	4-989-491-11	COVER, LENS	
* 259	1-658-575-11	CONNECTOR BOARD		M801	A-4672-004-A	MOTOR ASSY (SLED)	
* 260	X-4946-668-1	CHASSIS (CDM) ASSY		S811	1-473-335-11	ENCODER, ROTARY (BU, TRAY ADDRESS DET)	
261	4-985-672-01	SCREW (+PTPWHM2.6), FLOATING					

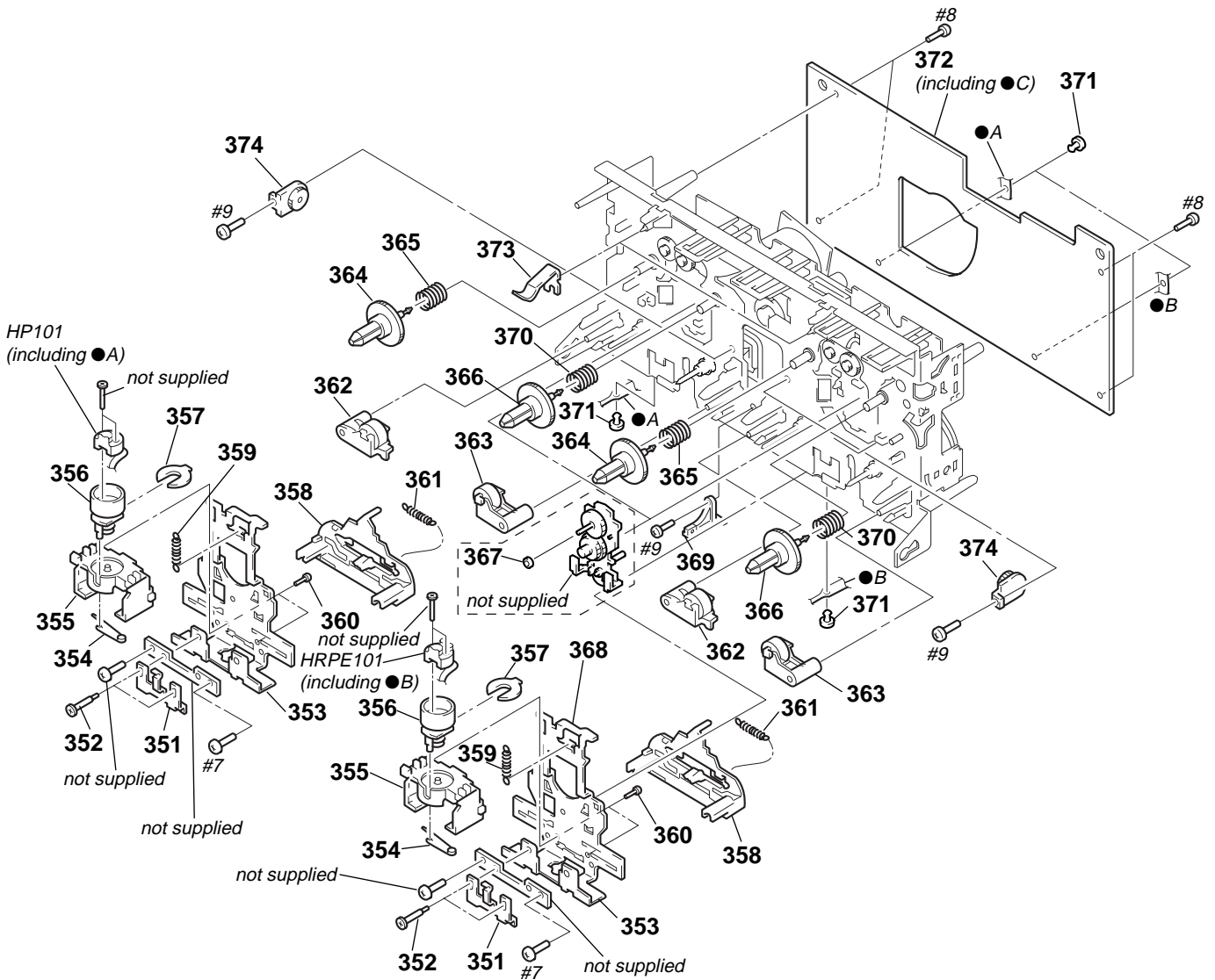
**5-5. BASE UNIT SECTION  
(BU-5BD29A)**



<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>
△ 301	8-848-379-31	OPTICAL PICK-UP KSS-213B/S-N		306	4-917-564-01	GEAR (P), FLATNESS	
302	1-769-069-11	WIRE (FLAT TYPE) (16 CORE)		* 307	A-4699-522-A	BD BOARD, COMPLETE	
303	4-917-567-01	GEAR (M)		308	4-951-620-01	SCREW (2.6X8), +BVTP	
304	4-951-940-01	INSULATOR (BU)		M101	X-4917-523-4	MOTOR ASSY, SPINDLE	
305	4-917-565-01	SHAFT, SLED		M102	X-4917-504-1	MOTOR ASSY, SLED	

<p>The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.</p>	<p>Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.</p>
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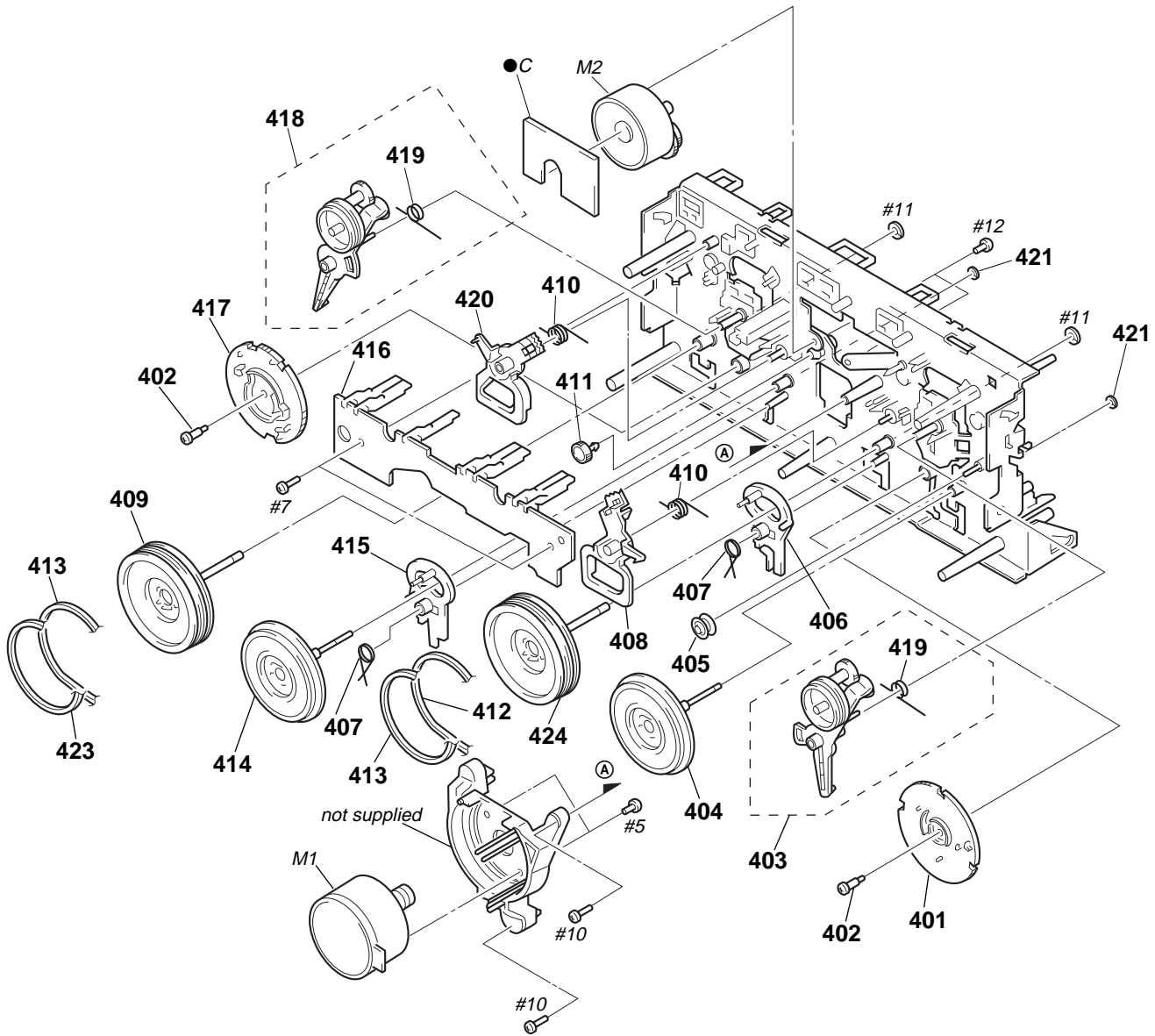
**5-6. TAPE MECHANISM DECK SECTION-1  
(TCM-220WR2E)**



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
351	3-908-560-01	SPRING, AZIMUTH ADJUSTMENT		364	3-908-613-01	GEAR (S), REEL	
352	3-919-684-01	SCREW, AZIMUTH ADJUSTMENT		365	3-917-141-01	SPRING, COMPRESSION	
353	X-3373-113-1	SLIDER (HEAD) ASSY		366	X-3371-305-1	REEL (T) ASSY	
354	3-908-556-01	SPRING, HEAD TOGGLE		367	3-669-465-01	WASHER (1.5), STOPPER	
355	3-908-558-02	FITTING BLOCK, HEAD		368	X-3370-173-1	TU ASSY	
356	3-908-557-02	ROTARY BLOCK, HEAD		* 369	4-980-439-01	FULCRUM, HOLDER	
* 357	3-908-559-01	STOPPER, AZIMUTH		370	3-917-142-01	SPRING, COMPRESSION	
358	3-908-555-01	SLIDER (REV SLIDER)		371	3-939-862-01	CLIP	
359	3-917-143-11	SPRING, TENSION		* 372	A-2007-435-A	AUDIO BOARD, COMPLETE	
360	3-388-848-01	SCREW (P2X6) (B TIGHT)		373	3-930-972-01	DETENT, HALF	
361	3-939-371-01	SPRING (1), TENSION		374	3-354-963-01	DAMPER	
362	X-3369-909-1	PINCH LEVER (REV) ASSY		HP101	1-500-093-11	HEAD, MAGNETIC (PLAYBACK)(DECK A)	
363	X-3369-908-1	PINCH LEVER (FWD) ASSY		HRPE101	1-500-094-11	HEAD, MAGNETIC (REC/PB/ERASE)(DECK B)	

## 5-7. TAPE MECHANISM DECK SECTION-2 (TCM-220WR2E)

• C: MOTOR board



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
401	3-908-597-01	CAM (A)		414	X-3370-171-1	FLYWHEEL (BR) ASSY	
402	3-908-608-11	SCREW, STEP		415	3-908-600-01	LEVER (REV-B)	
403	X-3372-930-1	ARM (A) ASSY, FR		*	416	1-650-669-11	LEAF SWITCH BOARD
404	X-3370-169-1	FLYWHEEL (AR) ASSY		417	3-908-598-01	CAM (B)	
405	3-928-047-01	PULLEY, TENSION		418	X-3372-931-1	ARM (B) ASSY, FR	
406	3-908-599-01	LEVER (REV-A)		419	3-914-111-01	SPRING (FR), TORSION	
407	3-908-601-01	SPRING (REV LEVER), TORSION		420	3-908-604-01	LEVER (TRIGGER B)	
408	3-908-603-01	LEVER (TRIGGER A)		421	3-911-115-01	WASHER, STOPPER	
409	X-3367-593-1	FLYWHEEL (BF) ASSY		423	3-917-176-11	BELT (B)	
410	3-908-605-01	SPRING (TRIGGER), TORSION		424	X-3370-172-1	FLYWHEEL (AF) ASSY	
411	3-908-609-01	GEAR, TRIGGER		M1	A-2004-409-A	MOTOR ASSY, CAPSTAN	
412	3-913-845-11	BELT (A)		M2	A-2004-410-A	MOTOR ASSY, DC (TRIGGER)	
413	3-913-846-11	BELT (FR)					

## SECTION 6 ELECTRICAL PARTS LIST

AUDIO

**Note:**

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

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

Les composants identifiés par une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- 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:  $\mu$ F
- RESISTORS  
All resistors are in ohms.  
METAL: metal-film resistor  
METAL OXIDE: Metal Oxide-film resistor  
F: nonflammable
- COILS  
uH:  $\mu$ H
- SEMICONDUCTORS  
In each case, u:  $\mu$ , for example:  
uA...:  $\mu$ A..., uPA...,  $\mu$ PA...,  
uPB...,  $\mu$ PB..., uPC...,  $\mu$ PC...,  
uPD...,  $\mu$ PD...

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
*	A-2007-435-A	AUDIO BOARD, COMPLETE *****				< IC >	
		< CAPACITOR >		IC601	8-759-111-44	IC uPC4570C-1	
				IC602	8-759-143-54	IC uPC1330HA	
				IC611	8-759-111-44	IC uPC4570C-1	
						< COIL >	
C301	1-162-289-31	CERAMIC	390PF 10% 50V	L331	1-410-780-11	INDUCTOR 27mH	
C302	1-126-968-11	ELECT	100uF 20% 6.3V	L431	1-410-780-11	INDUCTOR 27mH	
C303	1-162-282-31	CERAMIC	100PF 10% 50V			< TRANSISTOR >	
C304	1-130-483-00	MYLAR	0.01uF 5% 50V	Q621	8-729-142-46	TRANSISTOR 2SC2001-LK	
C305	1-107-715-11	ELECT	22uF 20% 16V	Q622	8-729-142-46	TRANSISTOR 2SC2001-LK	
				Q623	8-729-030-18	TRANSISTOR 2SD2525	
C311	1-162-289-31	CERAMIC	390PF 10% 50V	Q651	8-729-900-65	TRANSISTOR DTA144ES	
C313	1-162-282-31	CERAMIC	100PF 10% 50V			< RESISTOR >	
C314	1-130-487-00	MYLAR	0.022uF 5% 50V	R301	1-247-881-00	CARBON 120K 5%	1/4W
C315	1-126-233-11	ELECT	22uF 20% 50V	R302	1-249-409-11	CARBON 220 5%	1/4W F
C331	1-137-427-11	FILM	120PF 5% 50V	R303	1-249-433-11	CARBON 22K 5%	1/4W
				R304	1-247-889-00	CARBON 270K 5%	1/4W
C332	1-162-288-31	CERAMIC	330PF 10% 50V	R305	1-247-858-11	CARBON 13K 5%	1/4W
C333	1-162-209-31	CERAMIC	27PF 5% 50V				
C401	1-162-289-31	CERAMIC	390PF 10% 50V	R311	1-247-881-00	CARBON 120K 5%	1/4W
C402	1-126-968-11	ELECT	100uF 20% 6.3V	R312	1-247-807-31	CARBON 100 5%	1/4W
C403	1-162-282-31	CERAMIC	100PF 10% 50V	R314	1-247-882-11	CARBON 130K 5%	1/4W
				R315	1-247-850-11	CARBON 6.2K 5%	1/4W
C404	1-130-483-00	MYLAR	0.01uF 5% 50V	R331	1-249-430-11	CARBON 12K 5%	1/4W
C405	1-107-715-11	ELECT	22uF 20% 16V				
C411	1-162-289-31	CERAMIC	390PF 10% 50V	R401	1-247-881-00	CARBON 120K 5%	1/4W
C413	1-162-282-31	CERAMIC	100PF 10% 50V	R402	1-249-409-11	CARBON 220 5%	1/4W F
C414	1-130-487-00	MYLAR	0.022uF 5% 50V	R403	1-249-433-11	CARBON 22K 5%	1/4W
				R404	1-247-889-00	CARBON 270K 5%	1/4W
C415	1-126-233-11	ELECT	22uF 20% 50V	R405	1-247-858-11	CARBON 13K 5%	1/4W
C431	1-137-427-11	FILM	120PF 5% 50V				
C432	1-162-288-31	CERAMIC	330PF 10% 50V	R411	1-247-881-00	CARBON 120K 5%	1/4W
C433	1-162-209-31	CERAMIC	27PF 5% 50V	R412	1-247-807-31	CARBON 100 5%	1/4W
C601	1-104-396-11	ELECT	10uF 20% 16V	R414	1-247-882-11	CARBON 130K 5%	1/4W
				R415	1-247-850-11	CARBON 6.2K 5%	1/4W
C602	1-104-396-11	ELECT	10uF 20% 16V	R431	1-249-430-11	CARBON 12K 5%	1/4W
C611	1-124-907-11	ELECT	10uF 20% 50V				
C612	1-124-907-11	ELECT	10uF 20% 50V	R601	1-249-409-11	CARBON 220 5%	1/4W F
C621	1-137-150-11	FILM	0.01uF 5% 100V	R602	1-249-409-11	CARBON 220 5%	1/4W F
C622	1-126-961-11	ELECT	2.2uF 20% 50V	R608	1-249-409-11	CARBON 220 5%	1/4W F
				R609	1-249-433-11	CARBON 22K 5%	1/4W
C623	1-136-155-00	FILM	0.015uF 5% 50V	R611	1-249-409-11	CARBON 220 5%	1/4W F
C624	1-130-481-00	MYLAR	0.0068uF 5% 50V				
C625	1-130-481-00	MYLAR	0.0068uF 5% 50V	R612	1-249-409-11	CARBON 220 5%	1/4W F
C627	1-124-903-11	ELECT	1uF 20% 50V	$\Delta$ R621	1-212-851-00	FUSIBLE 5.6 5%	1/4W F
C628	1-136-153-00	FILM	0.01uF 5% 50V	$\Delta$ R622	1-212-851-00	FUSIBLE 5.6 5%	1/4W F
				R623	1-249-432-11	CARBON 18K 5%	1/4W
C642	1-104-664-11	ELECT	47uF 20% 16V	R624	1-249-432-11	CARBON 18K 5%	1/4W
C651	1-161-494-00	CERAMIC	0.022uF 25V				
		< CONNECTOR >					
CN601	1-695-382-31	PIN, CONNECTOR (PC BOARD) 21P					
CN602	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P					
* CN651	1-564-521-11	PLUG, CONNECTOR 6P					

**AUDIO** **BD**

Ref. No.	Part No.	Description	Remarks
R625	1-249-429-11	CARBON 10K 5%	1/4W
R651	1-247-856-00	CARBON 11K 5%	1/4W
R652	1-247-856-00	CARBON 11K 5%	1/4W
R653	1-249-441-11	CARBON 100K 5%	1/4W
< VARIABLE RESISTOR >			
RV301	1-238-598-11	RES, ADJ, CARBON 2.2K	
RV311	1-238-598-11	RES, ADJ, CARBON 2.2K	
RV341	1-238-551-11	RES, ADJ, CARBON 220K	
RV401	1-238-598-11	RES, ADJ, CARBON 2.2K	
RV411	1-238-598-11	RES, ADJ, CARBON 2.2K	
RV441	1-238-551-11	RES, ADJ, CARBON 220K	
RV651	1-238-599-11	RES, ADJ, CARBON 4.7K	
RV652	1-238-599-11	RES, ADJ, CARBON 4.7K	
< TRANSFORMER >			
T621	1-423-980-11	TRANSFORMER, BIAS OSCILLATION	
*****			
A-4699-522-A	BD BOARD, COMPLETE		
*****			
< CAPACITOR >			
C101	1-126-607-11	ELECT CHIP 47uF 20%	4V
C102	1-163-141-00	CERAMIC CHIP 0.001uF 5%	50V
C103	1-164-346-11	CERAMIC CHIP 1uF	16V
C105	1-163-038-91	CERAMIC CHIP 0.1uF	25V
C106	1-164-161-11	CERAMIC CHIP 0.0022uF 10%	100V
C107	1-164-161-11	CERAMIC CHIP 0.0022uF 10%	100V
C108	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C109	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C110	1-163-989-11	CERAMIC CHIP 0.033uF 10%	25V
C111	1-163-017-00	CERAMIC CHIP 0.0047uF 5%	50V
C112	1-163-017-00	CERAMIC CHIP 0.0047uF 5%	50V
C113	1-164-161-11	CERAMIC CHIP 0.0022uF 10%	100V
C114	1-164-005-11	CERAMIC CHIP 0.47uF	25V
C115	1-126-607-11	ELECT CHIP 47uF 20%	4V
C116	1-163-016-00	CERAMIC CHIP 0.0039uF 10%	50V
C117	1-164-005-11	CERAMIC CHIP 0.47uF	25V
C118	1-164-004-11	CERAMIC CHIP 0.1uF 10%	25V
C119	1-163-038-91	CERAMIC CHIP 0.1uF	25V
C120	1-124-779-00	ELECT CHIP 10uF 20%	16V
C121	1-163-038-91	CERAMIC CHIP 0.1uF	25V
C122	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C123	1-163-038-91	CERAMIC CHIP 0.1uF	25V
C124	1-126-607-11	ELECT CHIP 47uF 20%	4V
C125	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C126	1-163-038-91	CERAMIC CHIP 0.1uF	25V
C127	1-164-161-11	CERAMIC CHIP 0.0022uF 10%	100V
C128	1-163-135-00	CERAMIC CHIP 560PF 5%	50V
C129	1-163-038-91	CERAMIC CHIP 0.1uF	25V
C130	1-164-336-11	CERAMIC CHIP 0.33uF	25V
C131	1-164-346-11	CERAMIC CHIP 1uF	16V
C140	1-110-501-11	CERAMIC CHIP 0.33uF 10%	16V
C154	1-163-235-11	CERAMIC CHIP 22PF 5%	50V
C161	1-164-005-11	CERAMIC CHIP 0.47uF	25V
C162	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C163	1-163-117-00	CERAMIC CHIP 100PF 5%	50V

Ref. No.	Part No.	Description	Remarks
C164	1-163-145-00	CERAMIC CHIP 0.0015uF 5%	50V
C165	1-164-004-11	CERAMIC CHIP 0.1uF 10%	25V
C166	1-163-137-00	CERAMIC CHIP 680PF 5%	50V
C167	1-163-121-00	CERAMIC CHIP 150PF 5%	50V
C168	1-163-137-00	CERAMIC CHIP 680PF 5%	50V
C169	1-163-121-00	CERAMIC CHIP 150PF 5%	50V
C170	1-163-099-00	CERAMIC CHIP 18PF 5%	50V
C171	1-163-237-11	CERAMIC CHIP 27PF 5%	50V
C173	1-163-038-91	CERAMIC CHIP 0.1uF	25V
C174	1-163-038-91	CERAMIC CHIP 0.1uF	25V
C175	1-163-038-91	CERAMIC CHIP 0.1uF	25V
C176	1-163-038-91	CERAMIC CHIP 0.1uF	25V
C177	1-163-038-91	CERAMIC CHIP 0.1uF	25V
C178	1-163-038-91	CERAMIC CHIP 0.1uF	25V
C179	1-163-038-91	CERAMIC CHIP 0.1uF	25V
C181	1-126-205-11	ELECT CHIP 47uF 20%	6.3V
C182	1-126-393-11	ELECT 33uF 20%	10V
C183	1-124-778-00	ELECT CHIP 22uF 20%	6.3V
C185	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C188	1-163-235-11	CERAMIC CHIP 22PF 5%	50V
C189	1-163-235-11	CERAMIC CHIP 22PF 5%	50V
< CONNECTOR >			
CNU101	1-770-014-11	CONNECTOR, FFC/FPC 16P	
CNU102	1-778-874-11	CONNECTOR,FFC(LIF(NON-ZIF))19P	
< FERRITE BEAD >			
FB101	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB103	1-414-234-11	INDUCTOR, FERRITE BEAD	
< IC >			
IC101	8-752-080-62	IC CXA1992AR	
IC102	8-759-429-32	IC BA5941FP-E2	
IC103	8-752-378-66	IC CXD2519Q	
< JUMPER RESISTOR >			
JW101	1-216-295-91	CONDUCTOR, CHIP (2012)	
JW104	1-216-295-91	CONDUCTOR, CHIP (2012)	
< TRANSISTOR >			
Q101	8-729-010-08	TRANSISTOR MSB710-R	
< RESISTOR >			
R102	1-216-001-00	METAL CHIP 10 5%	1/10W
R104	1-216-093-00	METAL CHIP 68K 5%	1/10W
R105	1-216-088-00	METAL CHIP 43K 5%	1/10W
R106	1-216-088-00	METAL CHIP 43K 5%	1/10W
R107	1-216-088-00	METAL CHIP 43K 5%	1/10W
R108	1-216-088-00	METAL CHIP 43K 5%	1/10W
R109	1-216-093-00	METAL CHIP 68K 5%	1/10W
R114	1-216-101-00	METAL CHIP 150K 5%	1/10W
R115	1-216-101-00	METAL CHIP 150K 5%	1/10W
R116	1-216-061-00	METAL CHIP 3.3K 5%	1/10W
R117	1-216-069-00	METAL CHIP 6.8K 5%	1/10W
R118	1-216-063-91	METAL GLAZE 3.9K 5%	1/10W
R119	1-216-085-00	METAL CHIP 33K 5%	1/10W
R120	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R121	1-216-114-00	METAL GLAZE 510K 5%	1/10W



**CD PANEL****CONNECTOR****LEAF SWITCH****MAIN**

Ref. No.	Part No.	Description	Quantity	Power	Remarks
R257	1-216-033-00	METAL CHIP	220	5%	1/10W
R258	1-216-033-00	METAL CHIP	220	5%	1/10W
R259	1-216-033-00	METAL CHIP	220	5%	1/10W
R264	1-216-033-00	METAL CHIP	220	5%	1/10W
R265	1-216-033-00	METAL CHIP	220	5%	1/10W
R266	1-216-033-00	METAL CHIP	220	5%	1/10W
R267	1-216-033-00	METAL CHIP	220	5%	1/10W
R268	1-216-033-00	METAL CHIP	220	5%	1/10W
R269	1-216-033-00	METAL CHIP	220	5%	1/10W
R274	1-216-033-00	METAL CHIP	220	5%	1/10W
R275	1-216-033-00	METAL CHIP	220	5%	1/10W
R276	1-216-033-00	METAL CHIP	220	5%	1/10W
R277	1-216-033-00	METAL CHIP	220	5%	1/10W
R278	1-216-017-91	METAL GLAZE	47	5%	1/10W
R279	1-216-021-00	METAL CHIP	68	5%	1/10W
R280	1-216-025-91	METAL GLAZE	100	5%	1/10W
R281	1-216-029-00	METAL CHIP	150	5%	1/10W
R282	1-216-029-00	METAL CHIP	150	5%	1/10W
R283	1-216-033-00	METAL CHIP	220	5%	1/10W
R284	1-216-037-00	METAL CHIP	330	5%	1/10W
R285	1-216-041-00	METAL CHIP	470	5%	1/10W
R286	1-216-045-00	METAL CHIP	680	5%	1/10W
R287	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R288	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R289	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
< SWITCH >					
S270	1-762-750-11	SWITCH, TACTILE (▶  )			
S271	1-762-750-11	SWITCH, TACTILE (▲OPEN/CLOSE)			
S272	1-762-750-11	SWITCH, TACTILE (■)			
S274	1-762-750-11	SWITCH, TACTILE (DISC-3)			
S275	1-762-750-11	SWITCH, TACTILE (DISC-2)			
S276	1-762-750-11	SWITCH, TACTILE (DISC-1)			
S278	1-762-750-11	SWITCH, TACTILE (◀◀)			
S279	1-762-750-11	SWITCH, TACTILE (▶▶)			
S280	1-762-750-11	SWITCH, TACTILE (DISK SKIP EX-CHANGE)			
*****					
*	1-658-575-11	CONNECTOR BOARD			
*****					
< CONNECTOR >					
* CN701	1-568-946-11	PIN, CONNECTOR 8P			
CN702	1-750-413-11	CONNECTOR, FFC/FPC 8P			
< TRANSISTOR >					
Q701	8-729-900-80	TRANSISTOR DTC114ES			
< RESISTOR >					
R703	1-249-435-11	CARBON	33K	5%	1/4W
R704	1-249-429-11	CARBON	10K	5%	1/4W
R705	1-249-417-11	CARBON	1K	5%	1/4W F
*****					
*	1-650-669-11	LEAF SWITCH BOARD			
*****					
< CONNECTOR >					
CN1001	1-695-372-31	PIN, CONNECTOR (PC BOARD) 11P			

Ref. No.	Part No.	Description	Quantity	Power	Remarks
< TRANSISTOR >					
Q1001	8-749-010-90	TRANSISTOR PHOTO REFLECTOR			NJL5165KA-H
Q1002	8-749-010-90	TRANSISTOR PHOTO REFLECTOR			NJL5165KA-H
< RESISTOR >					
R1001	1-247-818-11	CARBON	300	5%	1/4W
R1002	1-247-820-11	CARBON	360	5%	1/4W
R1003	1-249-414-11	CARBON	560	5%	1/4W F
R1004	1-247-834-11	CARBON	1.3K	5%	1/4W
R1005	1-247-818-11	CARBON	300	5%	1/4W
< SWITCH >					
S1001	1-692-832-11	SWITCH, PUSH (1 KEY)(A PLAY)			
S1002	1-692-832-11	SWITCH, PUSH (1 KEY)(B PLAY)			
S1004	1-571-281-21	SWITCH, LEAF (A HALE)			
S1005	1-571-281-21	SWITCH, LEAF (A CrO2)			
S1006	1-572-248-11	SWITCH, LEAF (REC A)			
S1007	1-572-248-11	SWITCH, LEAF (B HALE)			
S1008	1-571-281-21	SWITCH, LEAF (B CrO2)			
S1009	1-571-281-21	SWITCH, LEAF (REC B)			
*****					
*	A-4398-493-A	MAIN BOARD, COMPLETE			
*****					
< CAPACITOR >					
C001	1-164-159-11	CERAMIC	0.1uF		50V
C128	1-162-306-11	CERAMIC	0.01uF	20%	16V
C129	1-126-933-11	ELECT	100uF	20%	10V
C131	1-164-159-11	CERAMIC	0.1uF		50V
C132	1-164-159-11	CERAMIC	0.1uF		50V
C134	1-164-159-11	CERAMIC	0.1uF		50V
C135	1-162-290-31	CERAMIC	470PF	10%	50V
C136	1-162-290-31	CERAMIC	470PF	10%	50V
C138	1-126-933-11	ELECT	100uF	20%	10V
C139	1-128-551-11	ELECT	22uF	20%	25V
C140	1-164-159-11	CERAMIC	0.1uF		50V
C402	1-162-600-11	CERAMIC	0.0047uF	30%	16V
C403	1-162-290-31	CERAMIC	470PF	10%	50V
C405	1-126-301-11	ELECT	1uF	20%	50V
C406	1-137-399-11	FILM	0.1uF	5%	50V
C407	1-126-964-11	ELECT	10uF	20%	50V
C409	1-126-964-11	ELECT	10uF	20%	50V
C411	1-126-301-11	ELECT	1uF	20%	50V
C421	1-126-964-11	ELECT	10uF	20%	50V
C422	1-126-964-11	ELECT	10uF	20%	50V
C423	1-126-933-11	ELECT	100uF	20%	10V
C424	1-164-159-11	CERAMIC	0.1uF		50V
C425	1-164-159-11	CERAMIC	0.1uF		50V
C426	1-164-159-11	CERAMIC	0.1uF		50V
C427	1-126-935-11	ELECT	470uF	20%	16V
C428	1-126-933-11	ELECT	100uF	20%	16V
C429	1-126-933-11	ELECT	100uF	20%	10V
C452	1-162-600-11	CERAMIC	0.0047uF	30%	16V
C453	1-162-290-31	CERAMIC	470PF	10%	50V
C455	1-126-301-11	ELECT	1uF	20%	50V

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
C456	1-137-399-11	FILM	0.1uF 5% 50V	Q409	8-729-900-80	TRANSISTOR DTC114ES	
C457	1-126-964-11	ELECT	10uF 20% 50V	Q410	8-729-119-76	TRANSISTOR 2SA1175-HFE	
C459	1-126-964-11	ELECT	10uF 20% 50V	Q411	8-729-900-80	TRANSISTOR DTC114ES	
C461	1-126-301-11	ELECT	1uF 20% 50V	Q852	8-729-018-60	TRANSISTOR 2SD2012-LC	
C702	1-126-961-11	ELECT	2.2uF 20% 50V	Q855	8-729-018-59	TRANSISTOR 2SB1375-LC	
C752	1-126-961-11	ELECT	2.2uF 20% 50V	< RESISTOR >			
C813	1-126-967-11	ELECT	47uF 20% 10V	R121	1-247-807-31	CARBON 100 5% 1/4W	
C853	1-126-944-11	ELECT	3300uF 20% 25V	R122	1-247-807-31	CARBON 100 5% 1/4W	
C854	1-126-944-11	ELECT	3300uF 20% 25V	R123	1-247-807-31	CARBON 100 5% 1/4W	
C861	1-126-768-11	ELECT	2200uF 20% 16V	R124	1-247-807-31	CARBON 100 5% 1/4W	
C862	1-126-933-11	ELECT	100uF 20% 10V	R125	1-247-807-31	CARBON 100 5% 1/4W	
C863	1-126-967-11	ELECT	47uF 20% 10V	R126	1-247-807-31	CARBON 100 5% 1/4W	
C867	1-126-967-11	ELECT	47uF 20% 10V	R127	1-247-807-31	CARBON 100 5% 1/4W	
C868	1-126-923-11	ELECT	220uF 20% 10V	R128	1-247-807-31	CARBON 100 5% 1/4W	
C869	1-126-967-11	ELECT	47uF 20% 10V	R129	1-247-807-31	CARBON 100 5% 1/4W	
C870	1-164-159-11	CERAMIC	0.1uF 50V	R130	1-247-807-31	CARBON 100 5% 1/4W	
C871	1-164-159-11	CERAMIC	0.1uF 50V	R131	1-247-807-31	CARBON 100 5% 1/4W	
C872	1-126-967-11	ELECT	47uF 20% 10V	R132	1-247-807-31	CARBON 100 5% 1/4W	
C873	1-126-933-11	ELECT	100uF 20% 10V	R133	1-247-807-31	CARBON 100 5% 1/4W	
C876	1-126-933-11	ELECT	100uF 20% 10V	R134	1-247-807-31	CARBON 100 5% 1/4W	
< CONNECTOR >				R135	1-247-807-31	CARBON 100 5% 1/4W	
* CN111	1-568-935-11	PIN, CONNECTOR 8P		R136	1-247-807-31	CARBON 100 5% 1/4W	
* CN112	1-568-936-11	PIN, CONNECTOR 9P		R139	1-249-429-11	CARBON 10K 5% 1/4W	
* CNB108	1-764-017-31	HOUSING,CONNECTOR(PC BOARD)17P		R140	1-249-429-11	CARBON 10K 5% 1/4W	
CNP105	1-770-393-11	PIN, CONNECTOR (PC BOARD) 9P		R141	1-249-429-11	CARBON 10K 5% 1/4W	
CNS101	1-569-060-11	SOCKET, CONNECTOR 11P		R142	1-249-429-11	CARBON 10K 5% 1/4W	
CNS102	1-568-440-11	SOCKET, CONNECTOR 17P		R143	1-247-807-31	CARBON 100 5% 1/4W	
CNS103	1-569-323-11	SOCKET, CONNECTOR 19P		R146	1-249-417-11	CARBON 1K 5% 1/4W	F
CNS104	1-569-324-11	SOCKET, CONNECTOR 21P		R147	1-249-429-11	CARBON 10K 5% 1/4W	
< DIODE >				R148	1-249-429-11	CARBON 10K 5% 1/4W	
D110	8-719-987-63	DIODE 1N4148M		R149	1-247-807-31	CARBON 100 5% 1/4W	
D855	8-719-110-08	DIODE RD8.2ES-B2		R150	1-247-807-31	CARBON 100 5% 1/4W	
D858	8-719-110-08	DIODE RD8.2ES-B2		R151	1-247-807-31	CARBON 100 5% 1/4W	
D901	8-719-024-99	DIODE 11ES2-NTA2B		R152	1-247-807-31	CARBON 100 5% 1/4W	
D902	8-719-024-99	DIODE 11ES2-NTA2B		R153	1-249-419-11	CARBON 1.5K 5% 1/4W	F
D903	8-719-024-99	DIODE 11ES2-NTA2B		R154	1-249-419-11	CARBON 1.5K 5% 1/4W	F
D904	8-719-024-99	DIODE 11ES2-NTA2B		R155	1-249-425-11	CARBON 4.7K 5% 1/4W	F
< TERMINAL >				R156	1-249-425-11	CARBON 4.7K 5% 1/4W	F
* EH01	1-537-738-21	TERMINAL, EARTH		R157	1-249-429-11	CARBON 10K 5% 1/4W	
< IC >				R158	1-249-429-11	CARBON 10K 5% 1/4W	
IC101	8-759-482-60	IC uPD780016YGF-016-3BA		R161	1-247-807-31	CARBON 100 5% 1/4W	
IC103	8-759-165-82	IC PST600E-T		R162	1-247-807-31	CARBON 100 5% 1/4W	
IC107	8-749-921-12	IC GP1F32T		R403	1-249-426-11	CARBON 5.6K 5% 1/4W	
IC401	8-759-363-21	IC HA12203NT		R404	1-249-417-11	CARBON 1K 5% 1/4W	F
IC402	8-759-822-09	IC LB1641		R405	1-247-840-00	CARBON 2.4K 5% 1/4W	
< COIL >				R406	1-249-421-11	CARBON 2.2K 5% 1/4W	F
L401	1-410-482-31	INDUCTOR 100uH		R407	1-249-428-11	CARBON 8.2K 5% 1/4W	F
< TRANSISTOR >				R409	1-249-433-11	CARBON 22K 5% 1/4W	
Q102	8-729-040-20	TRANSISTOR RT1P137L-TP		R419	1-249-435-11	CARBON 33K 5% 1/4W	
Q103	8-729-900-80	TRANSISTOR DTC114ES		R422	1-249-441-11	CARBON 100K 5% 1/4W	
Q104	8-729-040-20	TRANSISTOR RT1P137L-TP		R423	1-249-432-11	CARBON 18K 5% 1/4W	
Q405	8-729-801-93	TRANSISTOR 2SD1387		R424	1-249-429-11	CARBON 10K 5% 1/4W	
Q408	8-729-900-80	TRANSISTOR DTC114ES		R425	1-249-429-11	CARBON 10K 5% 1/4W	
				R426	1-249-429-11	CARBON 10K 5% 1/4W	
				R429	1-249-426-11	CARBON 5.6K 5% 1/4W	
				R433	1-249-425-11	CARBON 4.7K 5% 1/4W	F

**MAIN**

**MOTOR (SLIDE)**

**MOTOR (TURN)**

**RESISTOR**

Ref. No.	Part No.	Description	Remarks
R434	1-249-425-11	CARBON 4.7K 5%	1/4W F
R435	1-249-425-11	CARBON 4.7K 5%	1/4W F
R436	1-249-417-11	CARBON 1K 5%	1/4W F
R437	1-249-436-11	CARBON 39K 5%	1/4W
R438	1-249-436-11	CARBON 39K 5%	1/4W
R439	1-249-437-11	CARBON 47K 5%	1/4W
R440	1-249-437-11	CARBON 47K 5%	1/4W
R442	1-247-843-11	CARBON 3.3K 5%	1/4W
R447	1-249-411-11	CARBON 330 5%	1/4W
R448	1-249-427-11	CARBON 6.8K 5%	1/4W F
R449	1-249-429-11	CARBON 10K 5%	1/4W
R450	1-249-425-11	CARBON 4.7K 5%	1/4W F
R453	1-249-426-11	CARBON 5.6K 5%	1/4W
R454	1-249-417-11	CARBON 1K 5%	1/4W F
R455	1-247-840-00	CARBON 2.4K 5%	1/4W
R456	1-249-421-11	CARBON 2.2K 5%	1/4W F
R457	1-249-428-11	CARBON 8.2K 5%	1/4W F
R459	1-249-433-11	CARBON 22K 5%	1/4W
R469	1-249-433-11	CARBON 22K 5%	1/4W
R470	1-249-425-11	CARBON 4.7K 5%	1/4W F
R480	1-249-430-11	CARBON 12K 5%	1/4W
R704	1-249-417-11	CARBON 1K 5%	1/4W F
R705	1-249-438-11	CARBON 56K 5%	1/4W
R706	1-249-417-11	CARBON 1K 5%	1/4W F
R754	1-249-417-11	CARBON 1K 5%	1/4W F
R755	1-249-438-11	CARBON 56K 5%	1/4W
R756	1-249-417-11	CARBON 1K 5%	1/4W F
R855	1-249-417-11	CARBON 1K 5%	1/4W F
R859	1-249-417-11	CARBON 1K 5%	1/4W F
△R861	1-212-853-00	FUSIBLE 6.8 5%	1/4W F
△R862	1-212-853-00	FUSIBLE 6.8 5%	1/4W F
		< VARIABLE RESISTOR >	
RV401	1-238-598-11	RES, ADJ, CARBON 2.2K	
RV451	1-238-598-11	RES, ADJ, CARBON 2.2K	
		< VIBRATOR >	
X101	1-760-489-11	VIBRATOR, CERAMIC 5MHz	
*****			
*	1-658-578-11	MOTOR (SLIDE) BOARD	*****
		< CAPACITOR >	
C801	1-162-306-11	CERAMIC 0.01uF 20%	16V
C804	1-162-306-11	CERAMIC 0.01uF 20%	16V
C805	1-126-964-11	ELECT 10uF 20%	50V
		< CONNECTOR >	
* CN801	1-568-947-11	PIN, CONNECTOR 9P	
		< DIODE >	
D801	8-719-010-43	DIODE UZ-5.6BSC	
D804	8-719-987-63	DIODE 1N4148M	
D805	8-719-987-63	DIODE 1N4148M	
		< IC >	
IC801	8-759-274-09	IC BA6286N	

Ref. No.	Part No.	Description	Remarks
		< MOTOR >	
M801	A-4672-004-A	MOTOR ASSY (SLED)	
		< RESISTOR >	
R801	1-249-401-11	CARBON 47 5%	1/4W F
		< SWITCH >	
S801	1-762-527-11	SWITCH, ROTARY (OPEN/CLOSE)	
S811	1-473-335-11	ENCODER, ROTARY (BU,TRAY ADDRESS DET)	
*****			
*	1-658-577-11	MOTOR (TURN) BOARD	*****
		< CAPACITOR >	
C701	1-162-306-11	CERAMIC 0.01uF 20%	16V
C702	1-126-964-11	ELECT 10uF 20%	50V
C705	1-162-306-11	CERAMIC 0.01uF 20%	16V
		< CONNECTOR >	
CN703	1-750-413-11	CONNECTOR, FFC/FPC 8P	
CN704	1-506-469-11	PIN, CONNECTOR 4P	
		< DIODE >	
D701	8-719-010-23	DIODE UZ-3.6BSB	
		< IC >	
IC701	8-759-633-65	IC M54641L	
		< MOTOR >	
M701	A-4672-004-A	MOTOR ASSY (TURN)	
		< RESISTOR >	
R706	1-249-411-11	CARBON 330 5%	1/4W
R707	1-249-401-11	CARBON 47 5%	1/4W F
*****			
*	1-666-004-11	RESISTOR BOARD	*****
		< CAPACITOR >	
C851	1-164-159-11	CERAMIC 0.1uF 50V	
C852	1-164-159-11	CERAMIC 0.1uF 50V	
C865	1-126-967-11	ELECT 47uF 20%	10V
		< DIODE >	
D851	8-719-987-63	DIODE 1N4148M	
D852	8-719-987-63	DIODE 1N4148M	
		< IC >	
IC851	8-759-231-58	IC TA7812S	
IC852	8-759-231-53	IC TA7805S	
IC853	8-759-604-86	IC M5F7807L	

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**RESISTOR**

**SENSOR**

**TC (A)**

**TC (B)**

**TC PANEL**

Ref. No.	Part No.	Description	Remarks
		< RESISTOR >	
△ R863	1-212-934-00	FUSIBLE 1 5% 1/2W F	
*****			
*	1-658-576-11	SENSOR BOARD *****	
		< IC >	
IC702	8-749-924-18	IC PHOTO INTERRUPTER RPI-1391	
IC703	8-749-924-30	IC PHOTO REFLECTOR GP2S28	
		< RESISTOR >	
R701	1-249-416-11	CARBON 820 5% 1/4W F	
R702	1-249-407-11	CARBON 150 5% 1/4W F	
*****			
*	1-666-007-11	TC (A) BOARD *****	
		< DIODE >	
D207	8-719-058-03	DIODE SEL5423E-TP15 (▷)	
D208	8-719-058-03	DIODE SEL5423E-TP15 (▷)	
D209	8-719-058-03	DIODE SEL5423E-TP15 (◁)	
D210	8-719-058-03	DIODE SEL5423E-TP15 (◁)	
		< TRANSISTOR >	
Q203	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q204	8-729-027-23	TRANSISTOR DTA114EKA-T146	
		< RESISTOR >	
R213	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R214	1-216-069-00	METAL CHIP 6.8K 5% 1/10W	
R215	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R230	1-216-033-00	METAL CHIP 220 5% 1/10W	
R231	1-216-033-00	METAL CHIP 220 5% 1/10W	
R232	1-216-033-00	METAL CHIP 220 5% 1/10W	
R233	1-216-033-00	METAL CHIP 220 5% 1/10W	
		< SWITCH >	
S264	1-762-750-11	SWITCH, TACTILE (□)	
S265	1-762-750-11	SWITCH, TACTILE (◁)	
S266	1-762-750-11	SWITCH, TACTILE (▷)	
*****			
*	1-666-008-11	TC (B) BOARD *****	
		< JACK >	
CNJ105	1-770-402-11	HOUSING, CONNECTOR(PC BOARD)9P	
		< DIODE >	
D201	8-719-058-03	DIODE SEL5423E-TP15 (▷)	
D202	8-719-058-03	DIODE SEL5423E-TP15 (▷)	
D203	8-719-058-03	DIODE SEL5423E-TP15 (◁)	
D204	8-719-058-03	DIODE SEL5423E-TP15 (◁)	
		< TRANSISTOR >	
Q201	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q202	8-729-027-23	TRANSISTOR DTA114EKA-T146	

Ref. No.	Part No.	Description	Remarks
		< RESISTOR >	
R201	1-216-017-91	METAL GLAZE 47 5% 1/10W	
R202	1-216-021-00	METAL CHIP 68 5% 1/10W	
R224	1-216-033-00	METAL CHIP 220 5% 1/10W	
R225	1-216-033-00	METAL CHIP 220 5% 1/10W	
R226	1-216-033-00	METAL CHIP 220 5% 1/10W	
R227	1-216-033-00	METAL CHIP 220 5% 1/10W	
		< SWITCH >	
S251	1-762-750-11	SWITCH, TACTILE (▷)	
S252	1-762-750-11	SWITCH, TACTILE (◁)	
S253	1-762-750-11	SWITCH, TACTILE (□)	
*****			
*	A-4398-496-A	TC PANEL BOARD COMPLETE *****	
		< DIODE >	
D205	8-719-033-06	DIODE SEL5920A (PAUSE ■)	
D206	8-719-812-44	DIODE TLO124 (REC)	
		< TRANSISTOR >	
Q219	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q220	8-729-027-23	TRANSISTOR DTA114EKA-T146	
		< RESISTOR >	
R203	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R204	1-216-029-00	METAL CHIP 150 5% 1/10W	
R205	1-216-029-00	METAL CHIP 150 5% 1/10W	
R206	1-216-033-00	METAL CHIP 220 5% 1/10W	
R207	1-216-037-00	METAL CHIP 330 5% 1/10W	
R208	1-216-041-00	METAL CHIP 470 5% 1/10W	
R209	1-216-045-00	METAL CHIP 680 5% 1/10W	
R210	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R211	1-216-053-00	METAL CHIP 1.5K 5% 1/10W	
R212	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R228	1-216-033-00	METAL CHIP 220 5% 1/10W	
R229	1-216-033-00	METAL CHIP 220 5% 1/10W	
		< SWITCH >	
S254	1-762-750-11	SWITCH, TACTILE (◀)	
S255	1-762-750-11	SWITCH, TACTILE (▶)	
S256	1-762-750-11	SWITCH, TACTILE (DIRECTION MODE)	
S257	1-762-750-11	SWITCH, TACTILE (PAUSE ■)	
S258	1-762-750-11	SWITCH, TACTILE (REC)	
S259	1-762-750-11	SWITCH, TACTILE (HI-SPEED DUBBING)	
S260	1-762-750-11	SWITCH, TACTILE (CD SYNCHRO)	
S261	1-762-750-11	SWITCH, TACTILE (DOLBY NR)	
S262	1-762-750-11	SWITCH, TACTILE (◀)	
S263	1-762-750-11	SWITCH, TACTILE (▶)	
*****			

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Ref. No.	Part No.	Description	Remarks
		MISCELLANEOUS *****	
4	1-773-112-11	WIRE (FLAT TYPE) (19 CORE)	
5	1-765-325-11	WIRE (FLAT TYPE) (11 CORE)	
6	1-773-155-11	WIRE (FLAT TYPE) (21 CORE)	
* 10	1-666-009-11	DUMMY BOARD	
64	1-773-053-11	WIRE (FLAT TYPE) (17 CORE)	
257	1-452-538-11	MAGNET	
258	1-776-042-11	WIRE (FLAT TYPE) (8 CORE)	
△ 301	8-848-379-31	OPTICAL PICK-UP KSS-213B/S-N	
302	1-769-069-11	WIRE (FLAT TYPE) (16 CORE)	
HP101	1-500-093-11	HEAD, MAGNETIC (PLAYBACK)(DECK A)	
HRPE101	1-500-094-11	HEAD, MAGNETIC (REC/PB/ERASE)(DECK B)	
M1	A-2004-409-A	MOTOR ASSY, CAPSTAN	
M2	A-2004-410-A	MOTOR ASSY, DC (TRIGGER)	
M101	X-4917-523-4	MOTOR ASSY, SPINDLE	
M102	X-4917-504-1	MOTOR ASSY, SLED	
M701	A-4672-004-A	MOTOR ASSY (TURN)	
M801	A-4672-004-A	MOTOR ASSY (SLED)	
S811	1-473-335-11	ENCODER, ROTARY (BU,TRAY ADDRESS DET)	

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Ref. No.	Part No.	Description	Remarks
		***** HARDWARE LIST *****	
#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
#2	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#5	7-621-775-00	SCREW +B 2.6X3	
#6	7-621-255-15	SCREW +P 2X3	
#7	7-685-533-19	SCREW +BTP 2.6X6 TYPE2 N-S	
#8	7-685-131-19	SCREW +BTP 2.6X4 TYPE2 N-S	
#9	7-685-862-09	SCREW +BVTT 2.6X6 (S)	
#10	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	
#11	7-623-921-01	RING, RETAINING, CAPSTAN	
#12	7-621-775-10	SCREW +B 2.6X4	

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# HCD-W550

SONY

## SERVICE MANUAL

Canadian Model  
AEP Model  
UK Model  
E Model  
Australian Model  
Tourist Model

### CORRECTION-1

File this correction with the service manual.

(Page 2)

INCORRECT	
<p><b>SERVICING NOTE</b></p> <ul style="list-style-type: none"><li>• Supplying power during servicing</li></ul> <p>This equipment cannot operate without using a separate power supply. Connect to the STR-W550/W770AV when performing service work.</p> <p>To apply power set the SYSTEM POWER switch on the Tuner/Amp to ON.</p> <p>When other units are not available use the PFJ-1 power supply jig.</p> <p>When using the PFJ-1, simultaneously press the CD STOP button and the DECK A ►► (fast rightward) button to turn on the power.</p>	
<p>[Connection Diagram]</p>	<p>The diagram illustrates the correct power supply connection. On the left, a box labeled 'PFJ-1 (Power Supply Jig)' contains a switch labeled 'POWER SW'. Below it, a box lists model numbers: 'FH-E939,838,737, MHC-6600,5600, CDP/TC'. In the center, a 'Conversion Board (J-2501-138-A)' is shown with two terminals. A 'Connector Cable 17P (Supplied with set)' connects these terminals to a 'Set' box on the right. The Set box has a connector labeled 'CNB108 17P SYSTEM CONTROL'.</p>
CORRECT	
<p><b>SERVICING NOTE</b></p> <p>This model has no built-in power supply, and cannot be operated independently. Be sure to connect with STR-W550 or STR-W770 to perform service.</p> <p>The measurement specification values, voltage/waveform values shown in this manual are those when connected with STR-W550 or STR-W770.</p>	