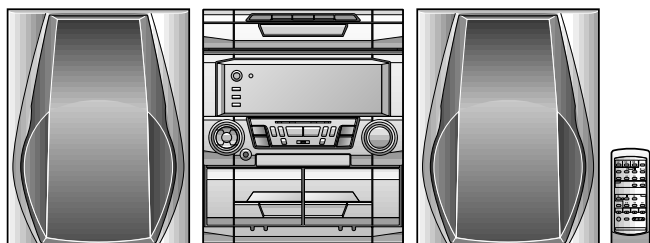


# SHARP SERVICE MANUAL

No. S5044CDBA3000



## MINI COMPONENT SYSTEM MODEL CD-BA3000

**COMPACT**  
**disc**  
**DIGITAL AUDIO**

CD-BA3000 Mini Component System consisting of CD-BA3000 (main unit), CP-BA3000 (speaker system).

- In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used.

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## CD-BA3000

FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT, PLEASE REFER TO THE OPERATION MANUAL.

## SPECIFICATIONS

### CD-BA3000

#### ● General

**Power source:** AC 120 V, 60 Hz  
**Power consumption:** 210 W  
**Dimensions:** Width; 270 mm (10-5/8")  
Height; 330 mm (13")  
Depth; 332 mm (13-1/16")  
**Weight:** 9.8 kg (21.5 lbs.)

#### ● Amplifier section

**Output power:** RMS; 300 W (150 W + 150 W)  
(10 % T.H.D)  
**Output terminals:** Speakers; 6 ohms  
Headphones; 16-50 ohms  
(recommended; 32 ohms)  
CD digital output (optical)  
**Input terminals:** Video/Auxiliary (audio signal);  
500 mV/47 kohms

#### ● Compact disc player section

**Type:** 3-disc multi-play compact disc player  
**Signal readout:** Non-contact, 3-beam semiconductor  
laser pickup  
**D/A converter:** 1-bit D/A converter  
**Frequency response:** 20 - 20,000 Hz  
**Dynamic range:** 90 dB (1 kHz)

#### ● Tuner section

**Frequency range:** FM; 87.5-108 MHz  
AM; 530-1,720 kHz

#### ● Cassette deck section

**Frequency response:** 50-14,000 Hz (Normal tape)  
**Signal/noise ratio:** 55 dB (TAPE 1, playback)  
50 dB (TAPE 2, recording/playback)  
**Wow and flutter:** 0.3 % (WRMS)

### CP-BA3000

**Type:** 3-way type [20 cm (8") woofer,  
8 cm (3") tweeter and super tweeter]

**Maximum input power:** 300 W  
**Rated input power:** 150 W  
**Impedance:** 6 ohms  
**Dimensions:** Width; 250 mm (9-13/16")  
Height; 330 mm (13")  
Depth; 335 mm (13-1/4")  
**Weight:** 6.1 kg (13.4 lbs.)/each

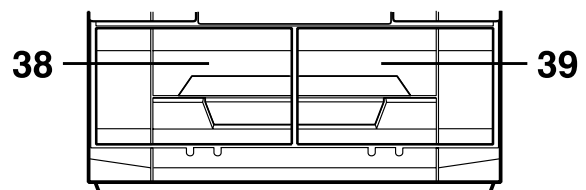
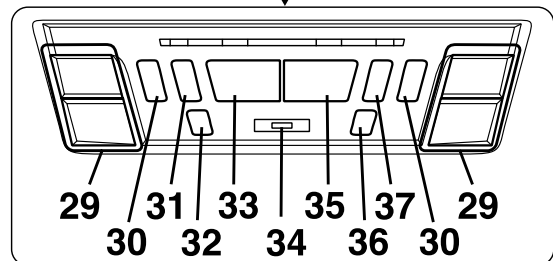
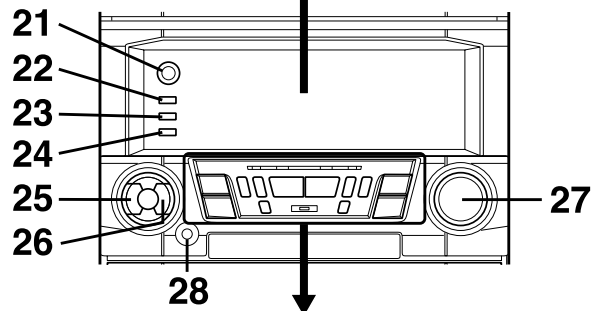
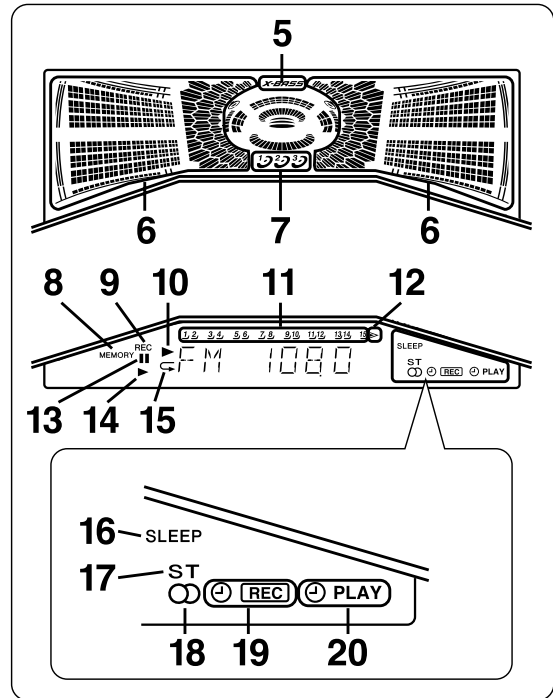
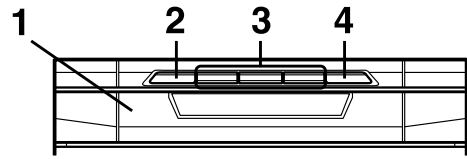
Specifications for this model are subject to change without prior notice.

## NAMES OF PARTS

**CD-BA3000**

■ Front panel

1. (CD) Disc Tray
2. (CD) Disc Skip Button
3. (CD) Disc Number Select Buttons
4. (CD) Open/Close Button
  
5. Extra Bass Indicator
6. Spectrum Analyzer/Volume Level Indicator
7. (CD) Disc Number Indicators
8. (CD/TUNER) Memory Indicator
9. (TAPE 2) Record Indicator
10. (CD) Play Indicator
11. (CD) Music Schedule Indicators
12. (CD) More Tracks Indicator
13. (CD) Pause Indicator
14. (TAPE) Play Indicator
15. (CD) Repeat Indicator
16. Sleep Indicator
17. FM Stereo Mode Indicator
18. FM Stereo Indicator
19. Timer Record Indicator
20. Timer Play Indicator
  
21. On/Stand-by Button
22. Clock Button
23. Timer/Sleep Button
24. Dimmer Button
25. Extra Bass/Demo Mode Button
26. Equalizer Mode Selector Button
27. Volume Control
28. Headphone Socket
  
29. Function Selector Buttons
30. Tuning and Time Up/Down Buttons
31. (CD) Track Down/Review Button  
(TUNER) Preset Down Button  
(TAPE 2) Rewind Button
32. Memory/Set Button
33. (CD/TAPE) Stop Button
34. Timer Set Indicator
35. (CD) Play/Repeat Button  
(TAPE) Play Button
36. (TAPE 2) Record/Pause Button
37. (CD) Track Up/Cue Button  
(TUNER) Preset Up Button  
(TAPE 2) Fast Forward Button
  
38. (TAPE 1) Cassette Compartment
39. (TAPE 2) Cassette Compartment

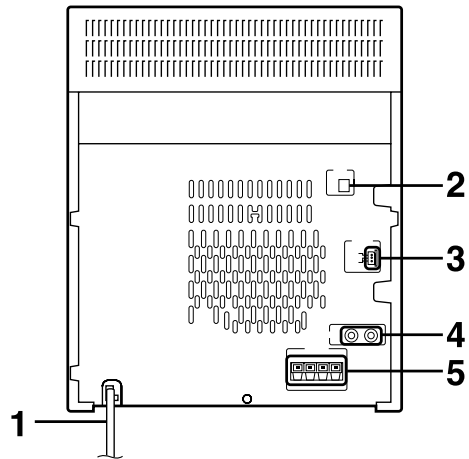


# CD-BA3000

## CD-BA3000

### ■ Rear panel

1. AC Power Lead
2. CD Digital Output Socket
3. FM/AM Loop Aerial Socket
4. Video/Auxiliary (Audio Signal) Input Sockets
5. Speaker Terminals

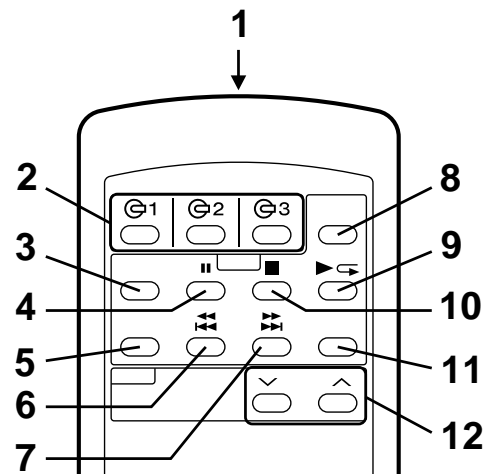


### ■ Remote control

1. Remote Control Transmitter LED

### ● CD control section

2. Disc Number Select Buttons
3. Memory Button
4. Pause Button
5. Clear Button
6. Track Down/Review Button
7. Track Up/Cue Button
8. Disc Skip Button
9. Play/Repeat Button
10. Stop Button
11. Random Button



### ● Tuner control section

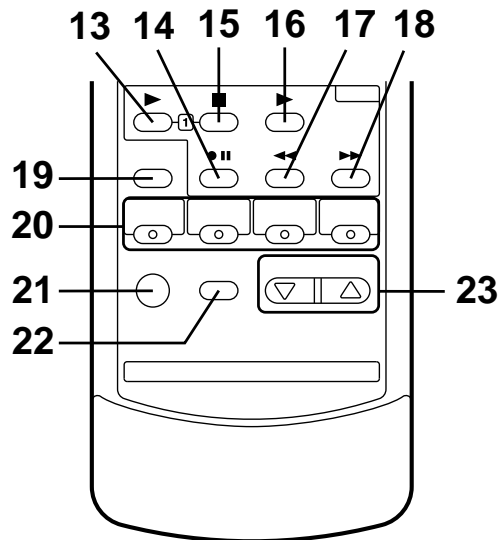
12. Preset Up/Down Buttons

### ● Tape control section

13. (TAPE 1) Play Button
14. (TAPE 2) Record Pause Button
15. (TAPE 1/2) Stop Button
16. (TAPE 2) Play Button
17. (TAPE 2) Rewind Button
18. (TAPE 2) Fast Forward Button

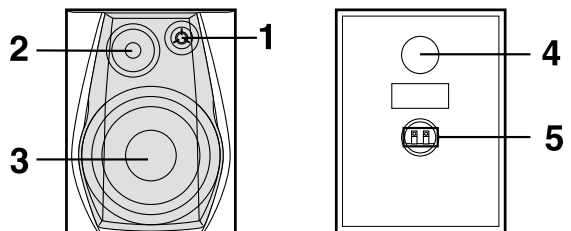
### ● Common section

19. Equalizer Mode Selector Button
20. Function Selector Buttons
21. On/Stand-by Button
22. Extra Bass Button
23. Volume Up/Down Buttons



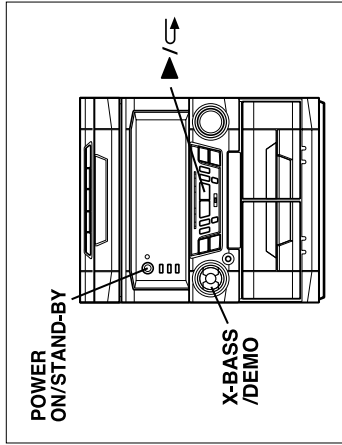
## CP-BA3000

1. Super Tweeter
2. Tweeter
3. Woofer
4. Bass Reflex Ducts
5. Speaker Terminals



# OPERATION MANUAL

## RESETTING THE MICROCOMPUTER



### Reset the microcomputer under the following conditions:

- To erase all of the stored memory contents (clock and timer settings, and tuner and CD presets).
- If the display is not correct.
- If the operation is not correct.

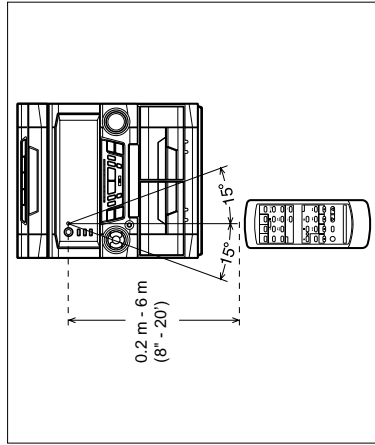
- 1 Press the ON/STAND-BY button to enter the stand-by mode.
- 2 Whilst pressing down the  $\blacktriangleright/\leftarrow$  button and the X-BASS/DEMO button, hold down the ON/STAND-BY button for at least 1 second.

● "CLEAR AL" will appear.

### Caution:

- The operation explained above will erase all data stored in memory including clock and timer settings, and tuner and CD presets.

## PREPARATION FOR USE



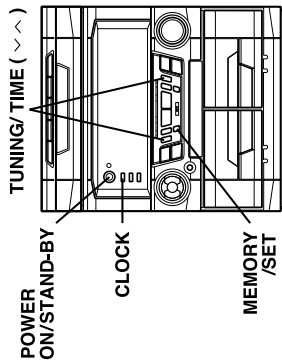
### Remote control

#### Notes concerning use:

- Replace the batteries if the operating distance is reduced or if the operation becomes erratic.
- Periodically clean the transmitter LED on the remote control and the sensor on the main unit with a soft cloth.
- Exposing the sensor on the main unit to strong light may interfere with operation. Change the lighting or the direction of the unit.
- Keep the remote control away from moisture, excessive heat, shock, and vibrations.

## SETTING THE CLOCK

(Main unit operation)



In this example, the clock is set for the 12-hour (AM 12:00) system.

- 1 Press the ON/STAND-BY button to enter the stand-by mode.
- 2 Press the CLOCK button.
- 3 Within 5 seconds, press the MEMORY/SET button.
- 4 Press the TUNING/TIME (v or ^) button to select the time display mode.
  - "AM 12:00" → The 12-hour display will appear.
  - "AM 0:00" → The 12-hour display will appear. (AM 12:00 - PM 11:59)
  - "0:00" → The 24-hour display will appear. (0:00 - 23:59)

- Note that this can only be set when the unit is first installed or it has been reset.

- 5 Press the MEMORY/SET button.

- 6 Press the TUNING/TIME (v or ^) button to adjust the hour.

- Press the TUNING/TIME (v or ^) button once to advance the time by 1 hour. Hold it down to advance continuously.
- When the 12-hour display is selected, "AM" will change automatically to "PM".

- 7 Press the MEMORY/SET button.

- 8 Press the TUNING/TIME (v or ^) button to adjust the minutes.

- Press the TUNING/TIME (v or ^) button once to advance the time by 1 minute. Hold it down to change the time in 5 minute intervals.
- The hour setting will not advance even if minutes advance from "59" to "00".

- 9 Press the MEMORY/SET button.

- The clock starts operating from "0" second. (Seconds are not displayed.)
- And then the clock display will disappear after a few seconds.

### To see the time display:

- Press the CLOCK button.
- The time display will appear for about 5 seconds.

### Note:

- The clock display will flash on and off at the push of the CLOCK button when the AC power supply is restored after a power failure occurs or after the AC power lead is disconnected.

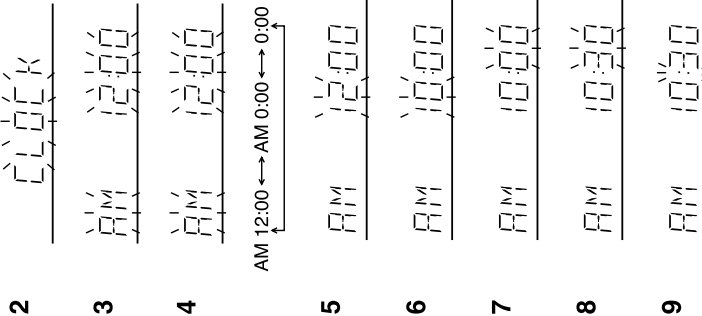
If this happens, follow the procedure below to change the clock time.

### To change the clock time:

- 1 Press the CLOCK button.
- 2 Within 5 seconds, press the MEMORY/SET button.
- 3 Perform steps 6 - 9 above.

### To change the time display mode:

- 1 Perform steps 1 - 2 in the section "RESETTING THE MICROCOMPUTER".
- 2 Perform steps 1 - 9 above.



DISASSEMBLY

**Caution on Disassembly**  
 Follow the below-mentioned notes when disassembling the unit and reassembling it, to keep it safe and ensure excellent performance:

1. Take cassette tape and compact disc out of the unit.
2. Be sure to remove the power supply plug from the wall outlet before starting to disassemble the unit.
3. Take off nylon bands or wire holders where they need to be removed when disassembling the unit. After servicing the unit, be sure to rearrange the leads where they were before disassembling.
4. Take sufficient care on static electricity of integrated circuits and other circuits when servicing.

CD-BA3000			
STEP	REMOVAL	PROCEDURE	FIGURE
1	Top Cabinet	1. Screw ..... (A1) x4	6-1
2	Side Panel (Left/Right)	1. Screw ..... (B1) x8	6-1
3	CD Player Unit/ CD Tray Cover	1. Turn on the power supply, open the disc tray, take out the CD tray cover, and close. (Note 1) 2. Screw ..... (C1) x1 3. Hook ..... (C2) x3 4. Hook ..... (C3) x2 5. Connector ..... (C4) x3	6-2
4	Rear Panel with Fan Motor	1. Screw ..... (D1) x7 2. Connector ..... (D2) x1	6-2
5	Main PWB	1. Screw ..... (E1) x1 2. Connector ..... (E2) x3 3. Tip Wire ..... (E3) x1 4. Flat Cable ..... (E4) x1	7-2
6	Power Supply PWB	1. Screw ..... (F1) x6 2. Connector ..... (F2) x3 3. Flat Wire ..... (F3) x1 4. Holder ..... (F4) x2	7-3
7	Front Panel	1. Screw ..... (G1) x2 2. Hook ..... (G2) x2	7-3
8	Volume Motor Ass'y/ Volume Motor	1. Knob ..... (H1) x1 2. Screw ..... (H2) x4 3. Connector ..... (H3) x1 4. Belt ..... (H4) x1 5. Screw ..... (H5) x2	7-4
9	Switch PWB	1. Screw ..... (J1) x2 2. Bracket ..... (J2) x1	7-4
10	Display PWB/ Headphones PWB	1. Screw ..... (K1) x5 2. Bracket ..... (K2) x1 3. Flat Cable ..... (K3) x1	7-4
11	Tape Mechanism	1. Open the cassette holder. 2. Screw ..... (L1) x5	7-4
12	Turntable	1. Hook ..... (M1) x2 2. Cover ..... (M2) x1	7-5
13	Disc Tray	1. Turn fully the lock lever in the arrow direction.	6-3
		2. While holding the lock lever, rotate the cam gear until the cam gear rib engages with the clamp lever.	7-1
		3. Push the slide holder backward to engage the claw with the groove and remove it in the direction of the arrow. .... (N1) x6	7-6
14	CD Servo PWB (Note 2)	1. Hook ..... (P1) x2 2. Socket ..... (P2) x4	8-1
15	CD Mechanism	1. Hook ..... (Q1) x2 2. Hook ..... (Q2) x3	8-2
16	Loading Motor PWB	1. Hook ..... (R1) x5	8-2

**Note 1:** How to open the changer manually. (Fig. 6-3)

1. In this state, turn fully the lock lever in the arrow direction through the hole on the loading chassis bottom.
2. While holding the lock lever, rotate the cam gear anticlockwise until the cam gear rib engages with the clamp lever. (Fig. 7-1)
3. After that, push forward the CD slide holder.

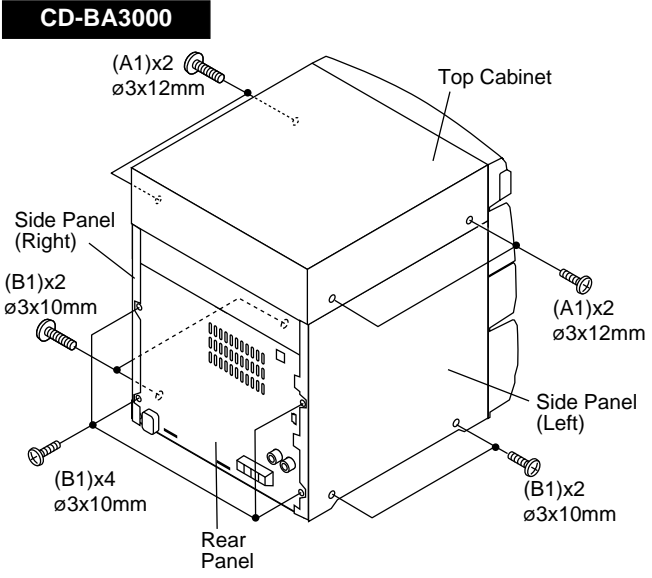


Figure 6-1

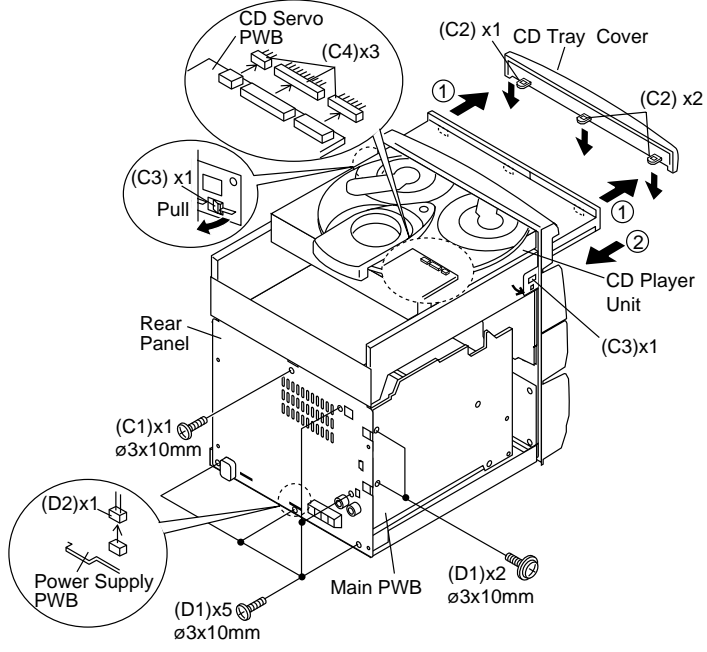


Figure 6-2

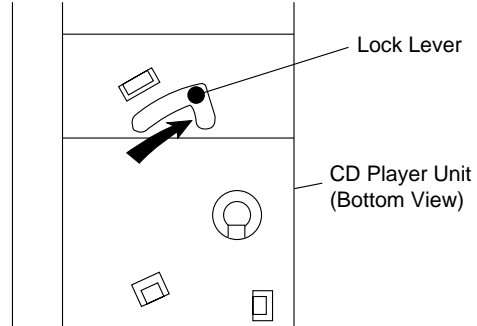


Figure 6-3

**Note 2:**  
 1. After removing the connector for the optical pickup from the connector, wrap the conductive aluminium foil around the front end of the connector so as to protect the optical pickup from electrostatic damage.

**Note 3:**  
 1. Be careful not to break the claw of the CD mechanism.  
 2. When fining back the cam gear assembly, let it lock by front movement.

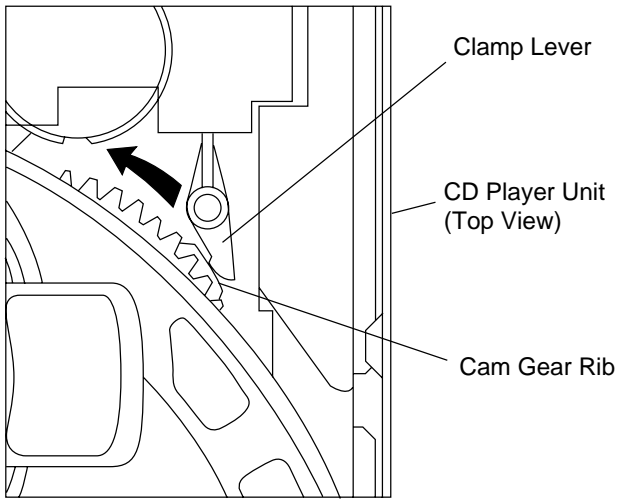


Figure 7-1

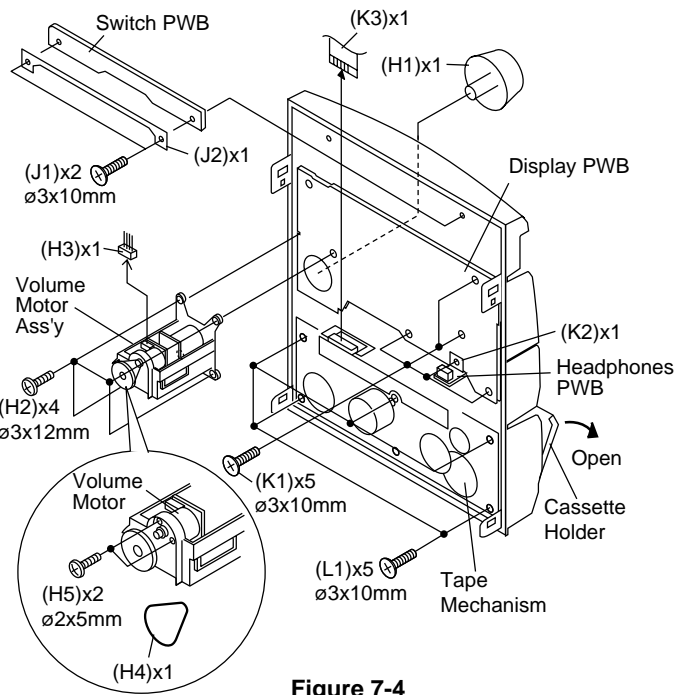


Figure 7-4

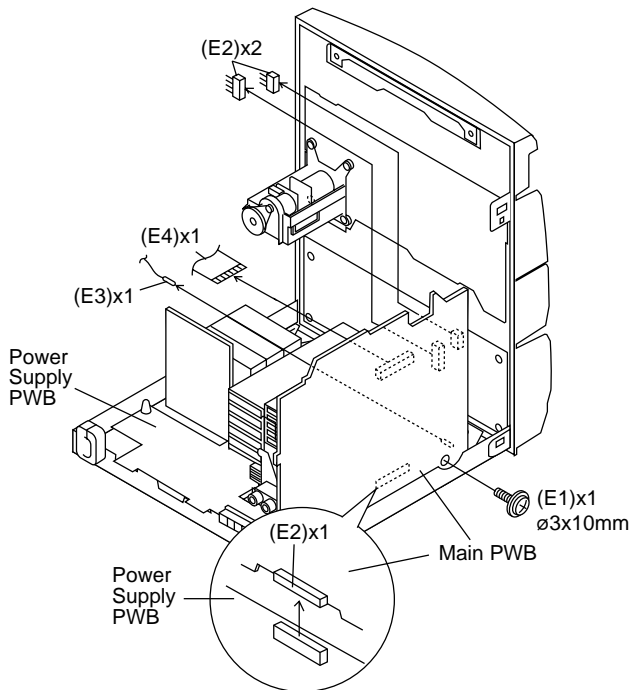


Figure 7-2

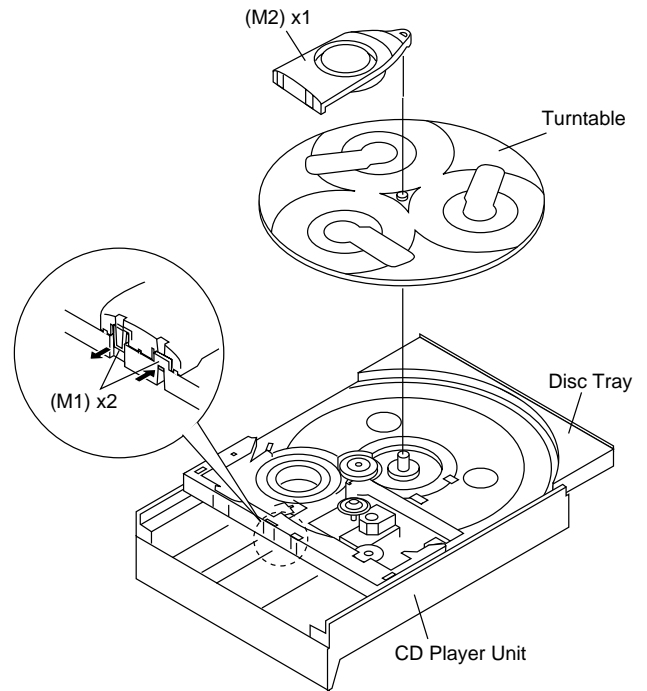


Figure 7-5

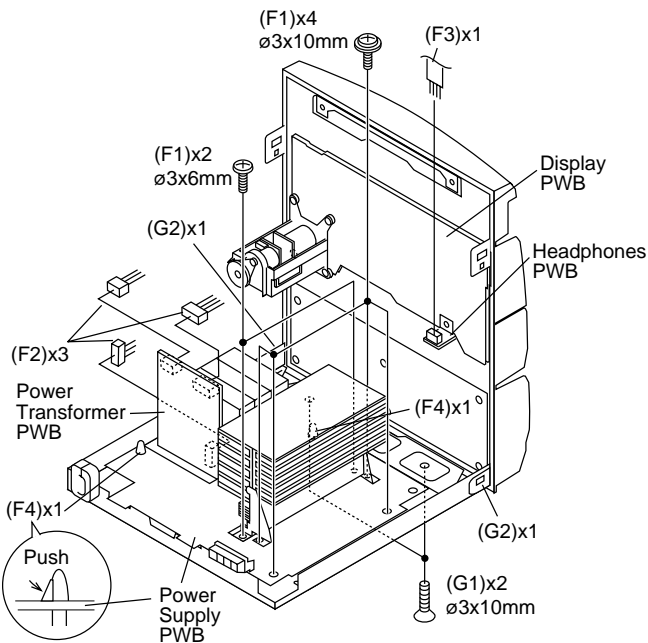


Figure 7-3

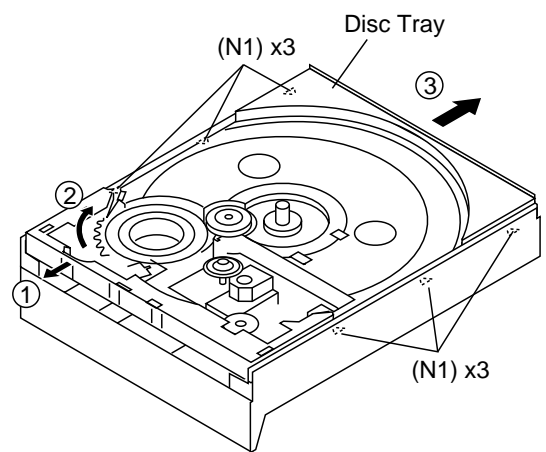


Figure 7-6

# CD-BA3000

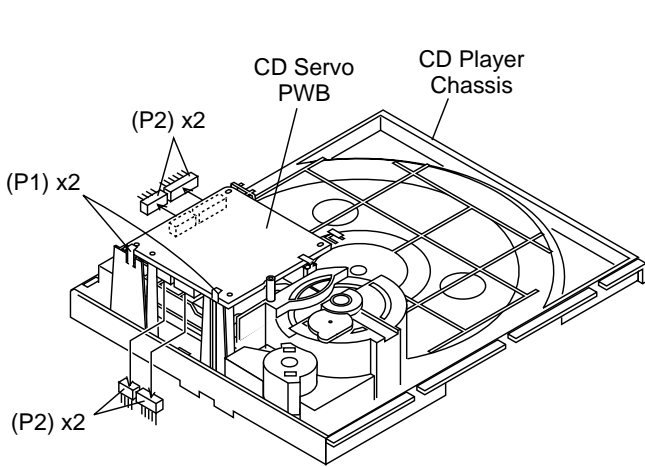


Figure 8-1

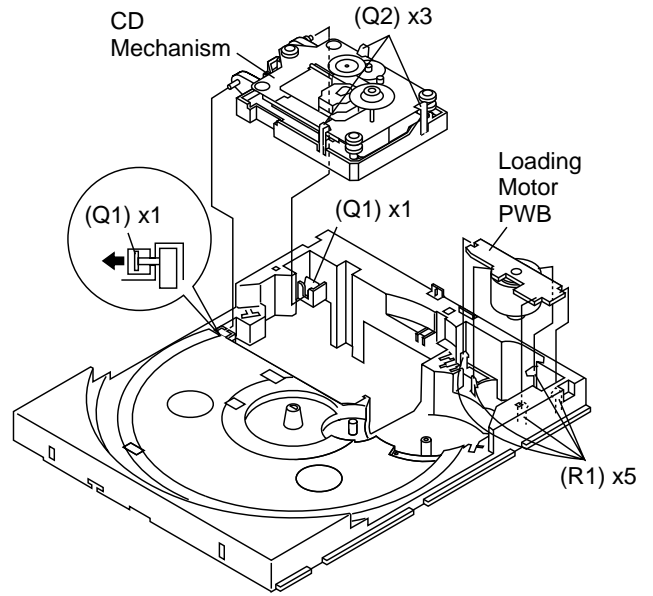


Figure 8-2

## CP-BA3000

STEP	REMOVAL	PROCEDURE	FIGURE
1	Front Panel	1. Net Frame Ass'y .... (A1) x1 2. Caching Holder ..... (A2) x4 3. Screw ..... (A3) x4	8-3
2	Tweeter	1. Screw ..... (B1) x4	8-4
3	Super Tweeter	1. Screw ..... (C1) x2	8-4
4	Woofer	1. Screw ..... (D1) x4	8-4

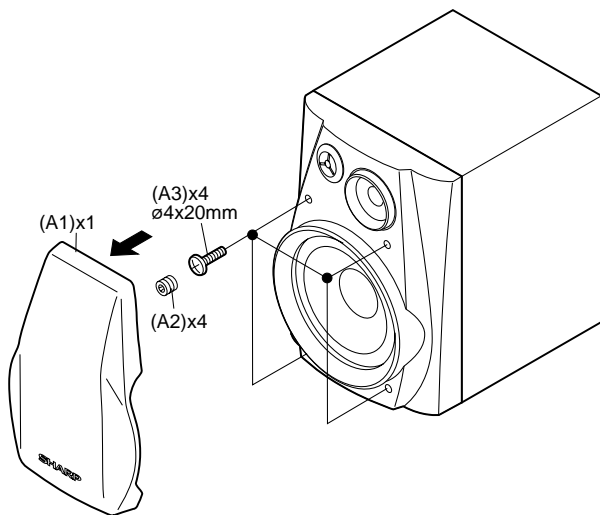


Figure 8-3

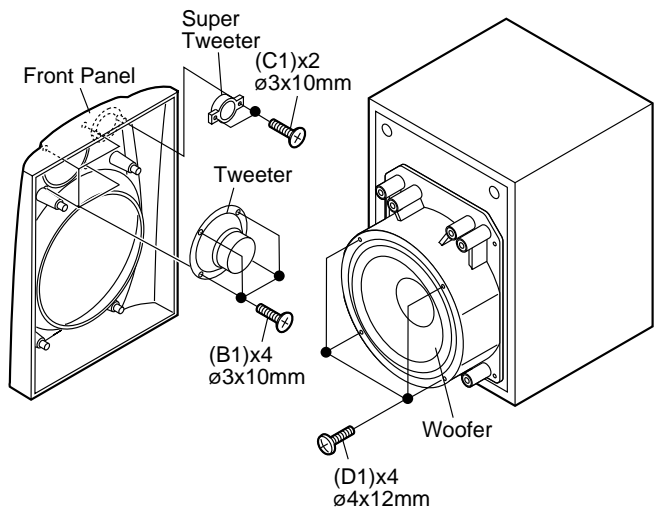


Figure 8-4



## REMOVING AND REINSTALLING THE MAIN PARTS

### TAPE MECHANISM SECTION

Perform steps 1 to 7 and 11 of the disassembly method to remove the tape mechanism.

#### How to remove the record/playback and erase heads (TAPE 2) (See Fig. 9-1)

1. When you remove the screw (A1) x 2 pcs., the recording/playback head and three-dimensional head of the erasing head can be removed.

#### How to remove the playback head (TAPE 1) (See Fig. 9-2)

1. When you remove the screw (B1) x 2 pcs., the playback head.

#### How to remove the pinch roller (TAPE 1/2) (See Fig. 9-3)

1. Carefully bend the pinch roller pawl in the direction of the arrow <A>, and remove the pinch roller (C1) x 1 pc., in the direction of the arrow <B>.

**Note:**

When installing the pinch roller, pay attention to the spring mounting position.

#### How to remove the belt (TAPE 2) (See Fig. 9-4)

1. Remove the main belt (D1) x 1 pc., from the motor side.
2. Remove the FF/REW belt (D2) x 1 pc.

#### How to remove the belt (TAPE 1) (See Fig. 9-4)

1. Remove the main belt (E1) x 1 pc., from the motor side.
2. Remove the FF/REW belt (E2) x 1 pc.

#### How to remove the motor (See Fig. 9-5)

1. Remove the screws (F1) x 2 pcs., to remove the motor.

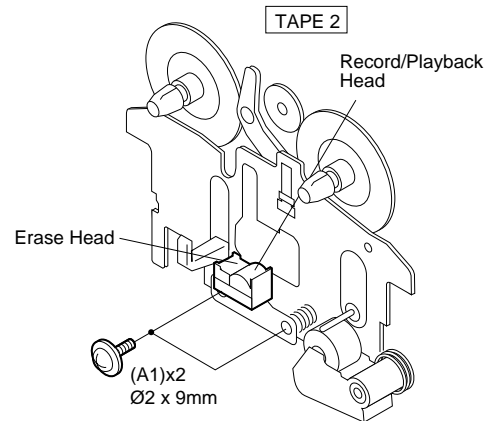


Figure 9-1

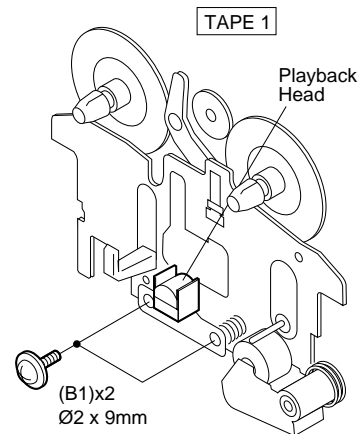


Figure 9-2

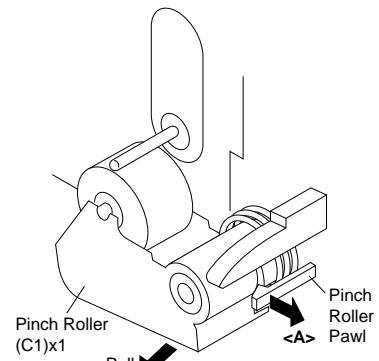


Figure 9-3

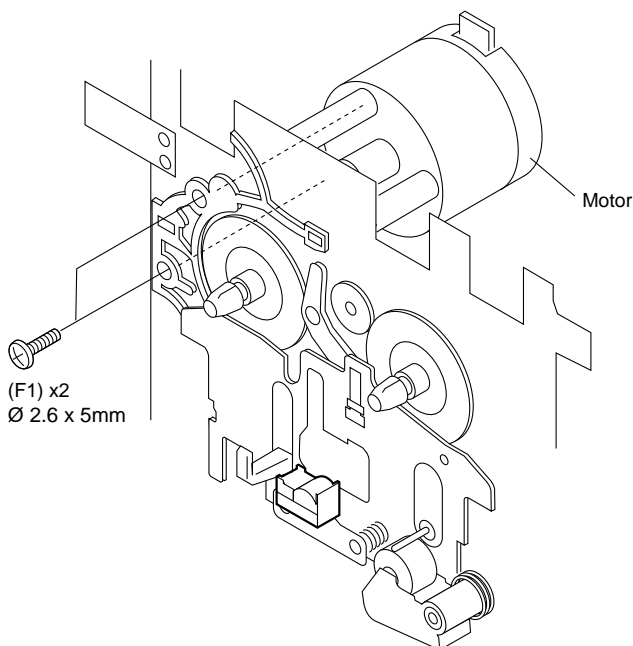


Figure 9-5

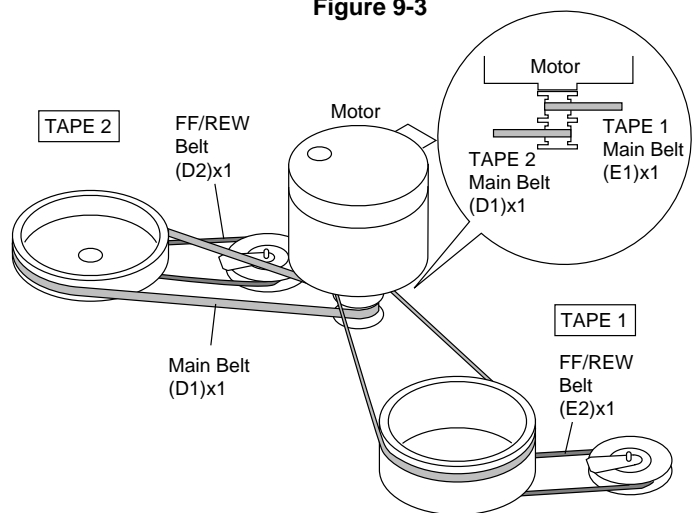


Figure 9-4

## CD-BA3000

### CD MECHANISM SECTION

Perform steps 1, 2, 3, 12 and 15 of the disassembly method to remove the CD mechanism.

#### How to remove the loading motor

(See Fig. 10-1)

1. Bend the hooks (A1) x 5 pcs., to remove the loading motor.
2. Remove the drive belt (A2) x 1pc.

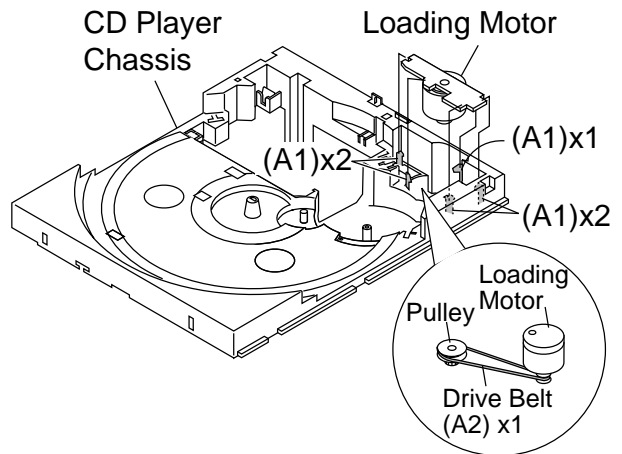


Figure 10-1

#### How to remove the pickup (See Fig. 10-2)

1. Remove the stop washer (B1) x 1 pc., to remove the gear (B2).
2. Remove the screws (B3) x 2 pcs., to remove the shaft (B4).
3. Remove the pickup.

#### Note

After removing the connector for the optical pickup from the connector wrap the conductive aluminium foil around the front end of connector so as to protect the optical pickup from electrostatic damage.

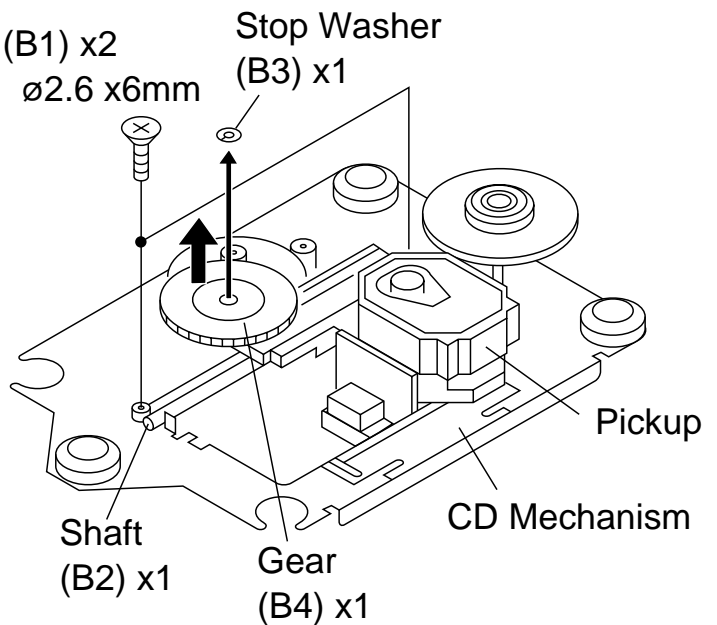


Figure 10-2

## ADJUSTMENT

### MECHANISM SECTION

#### • Driving Force Check

Torque Meter	Specified Value
Play: TW-2111	Tape 1: Over 80 g Tape 2: Over 80 g

#### • Torque Check

Torque Meter	Specified Value	
	Tape 1	Tape 2
Play: TW-2111	30 to 80 g.cm	30 to 80 g.cm
Fast forward: TW-2231	—	70 to 180 g.cm
Rewind: TW-2231	—	70 to 180 g.cm

#### • Tape Speed

	Test Tape	Adjusting Point	Specified Value	Instrument Connection
Normal speed	MTT-111	Variable Resistor in motor. (MM1)	3,000 ± 30 Hz	Speaker terminal (Load resistance: 6 ohms)

### TAPE MECHANISM

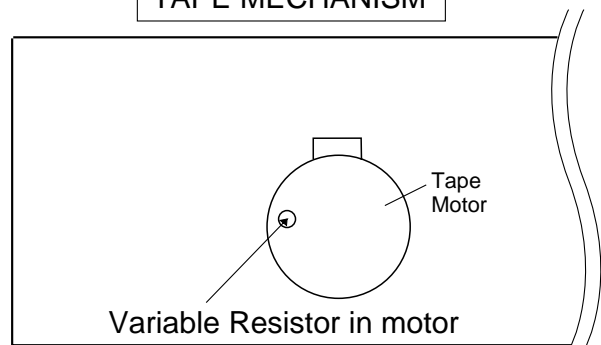


Figure 10-3

**TUNER SECTION**

fL: Low-range frequency  
fH: High-range frequency

• **AM IF/RF**

Signal generator: 400 Hz, 30%, AM modulated

Test Stage	Frequency	Frequency Display	Setting/ Adjusting Parts	Instrument Connection
AM IF	450 kHz	1,720 kHz	T351	*1
AM Band Coverage	—	530 kHz	(fL): T306 1.1 ± 0.1 V	*2
AM Tracking	990 kHz	990 kHz	(fL): T303	*1

\*1. Input: Antenna Output: TP302  
\*2. Input: Antenna Output: TP301

• **FM RF**

Signal generator: 1 kHz, 75 kHz dev., FM modulated

Test Stage	Frequency	Frequency Display	Setting/ Adjusting Point	Instrument Connection
FM Band Coverage	—	87.50 MHz	T301(fL): 1.3 V ± 50 mV	*1
FM RF	98.00 MHz (10-30 dB)	98.00 MHz	L312	*2

\*1. Input: Antenna Output: TP301  
\*2. Input: Antenna Output: Speaker terminal

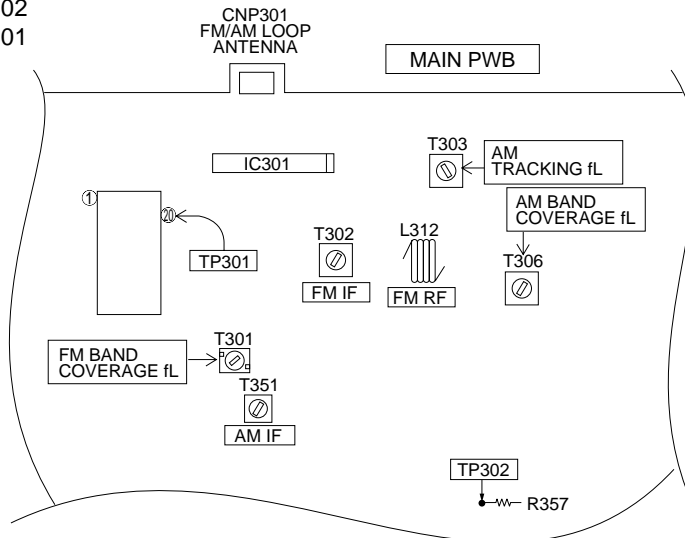


Figure 11-1 ADJUSTMENT POINTS

**CD SECTION**

• **Adjustment**

Since this CD system incorporates the following automatic adjustment functions, readjustment is not needed when replacing the pickup. Therefore, different PWBs and pickups can be combined freely.

Each time a disc is changed, these adjustments are performed automatically. Therefore, playback of each disc can be performed under optimum conditions.

**Items adjusted automatically**

- (1) Offset adjustment (The offset voltage between the head amplifier output and the VREF reference voltage is compensated inside the IC.)
  - \* Focus offset adjustment
  - \* Tracking offset adjustment
- (2) Tracking balance adjustment (waveform drawing Fig.11-2 EFBL)
- (3) Gain adjustment (The gain is compensated inside the IC so that the loop gain at the gain crossover frequency will be 0 dB.)
  - \* Focus gain adjustment
  - \* Tracking gain adjustment

**CD ERROR CODE DESCRIPTION**

Error	State Code
0001	[Servo System Error] Cannot detect Pickup-in SW
0002	DSP access error
0101	[Error during close operation] Open/Close SW not functioning (Low → High)
0103	Open/Close SW not functioning (High → Low)
0201	[Error during open operation] Open/Close SW not functioning (Low → High)
0203	Open/Close SW not functioning (High → Low)
0302	[Error during skip operation] Pickup-in SW is not detected
0306	During Disc 1 search, Open/Close SW or Clamp SW or Disc SW do not change to low.
0307	Clamp SW not function (Low → High)
0308	Clamp SW not function (High → Low)

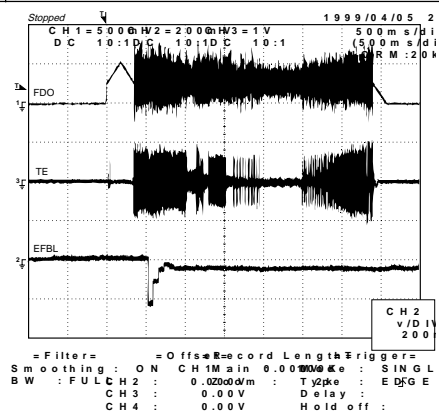


Figure 11-2

# CD-BA3000

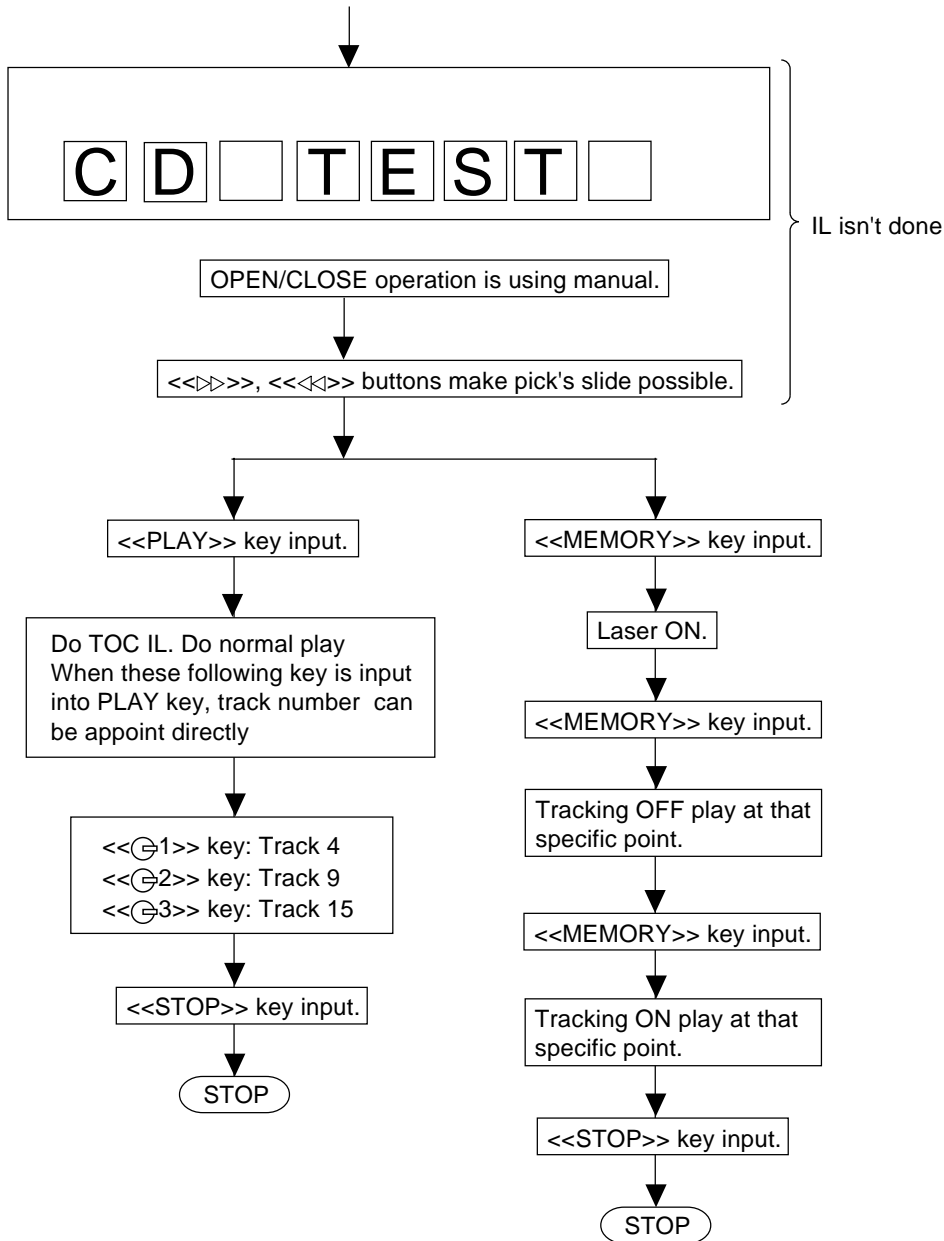
## TEST MODE

·Setting the test mode

Any one of test mode can be set by pressing several keys as follows.

<X-BASS> + <CD> + <POWER> TEST:CD operation test

Function:-CD test mode.  
-Enter test mode.



VOL — Last memory  
BAL — CENTER  
P.GEQ — FLAT  
X-BASS — OFF

To cancel : Power OFF

Sliding the PICKUP with  
<<D>>, <<L>> button  
must only be in STOP mode.

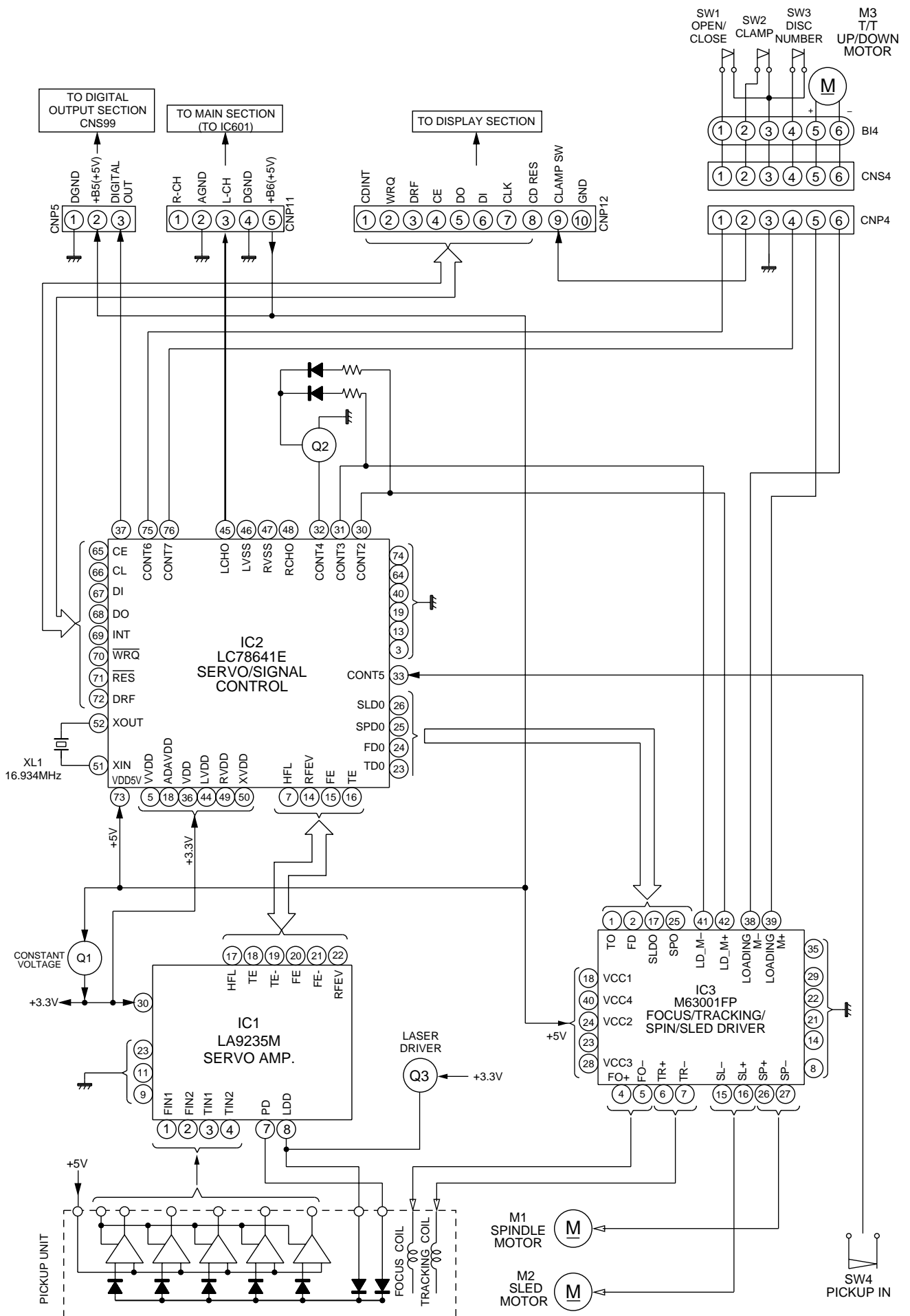


Figure 13 BLOCK DIAGRAM (1/3)

# CD-BA3000

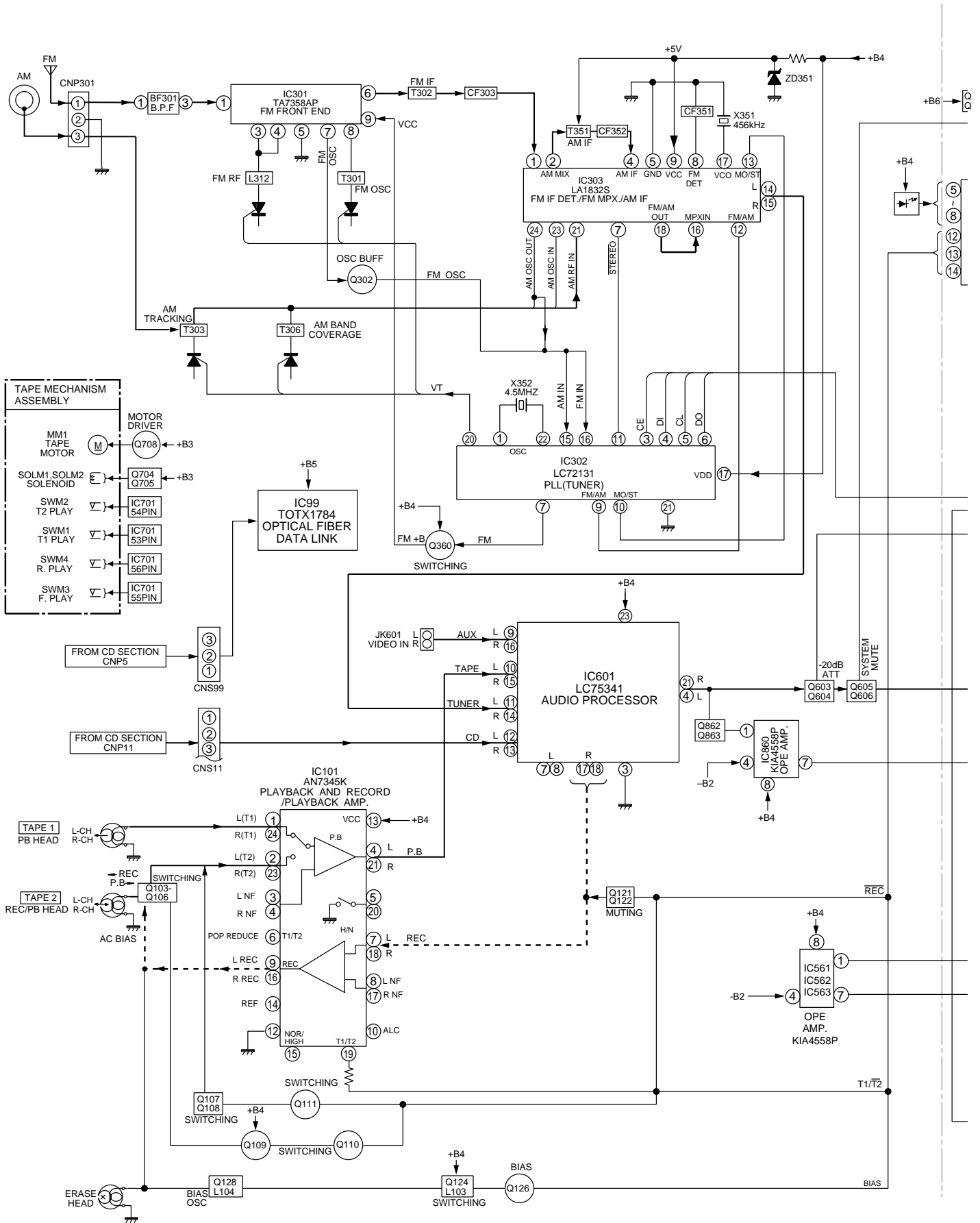


Figure 14 BLOCK DIAGRAM (2/3)

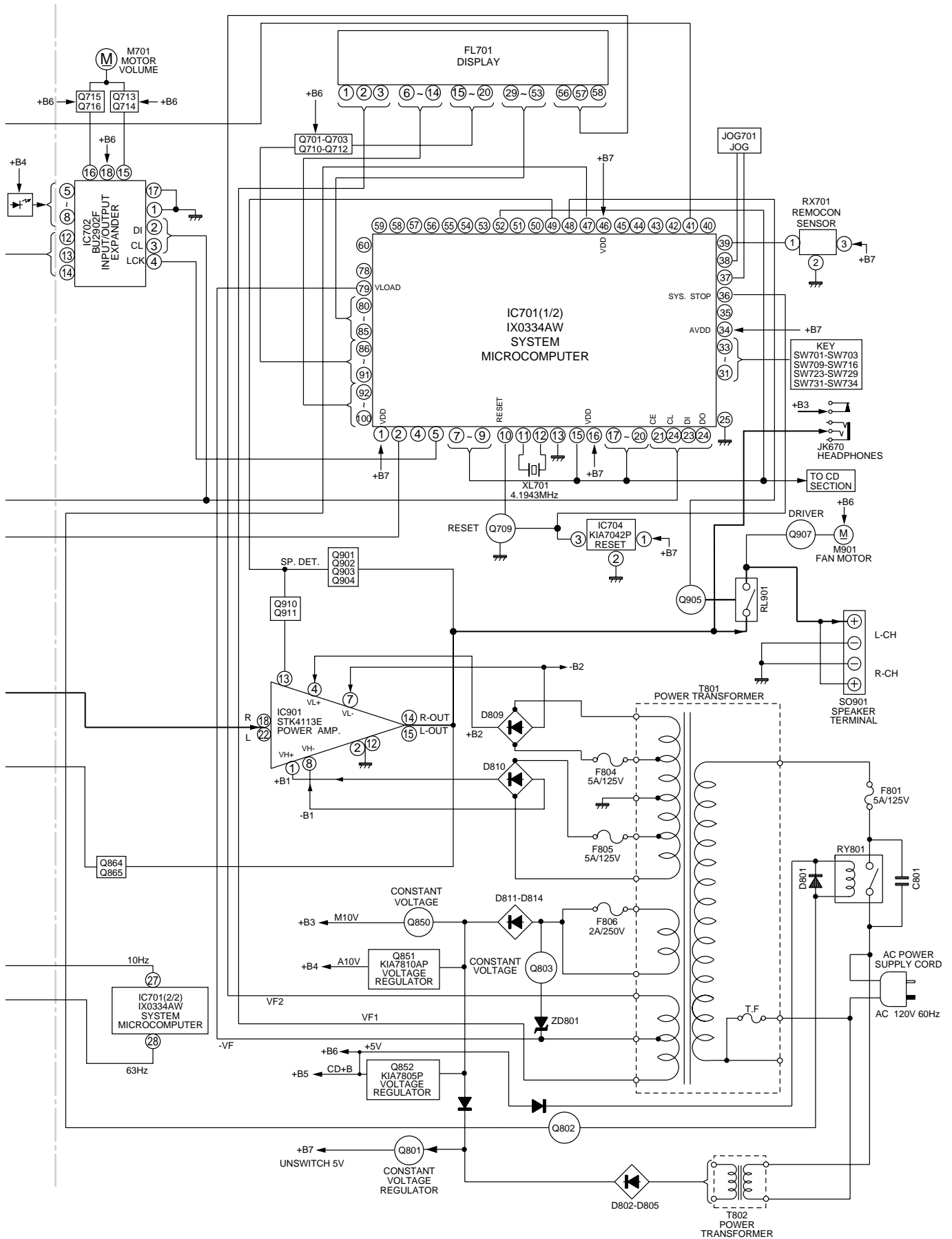
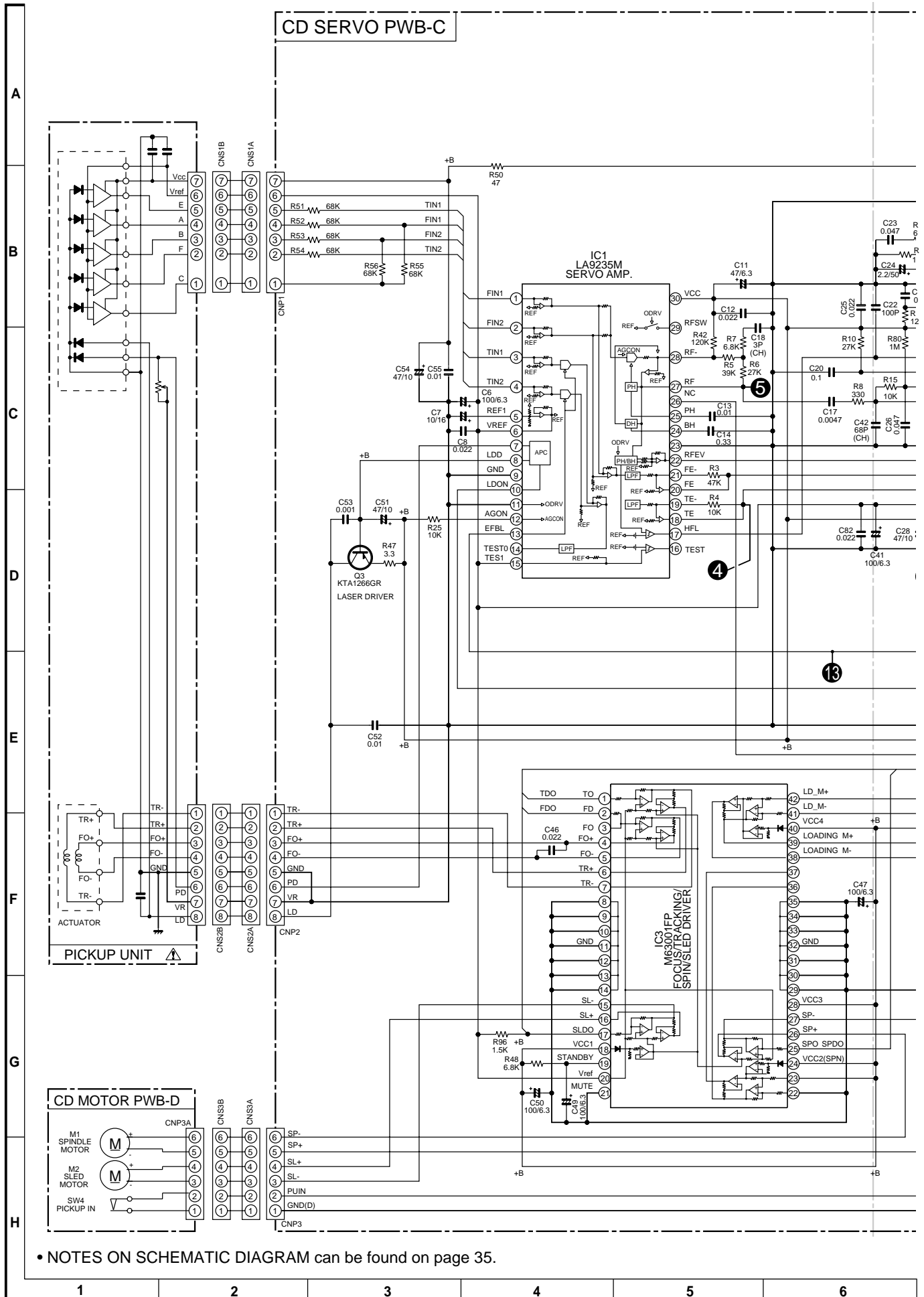


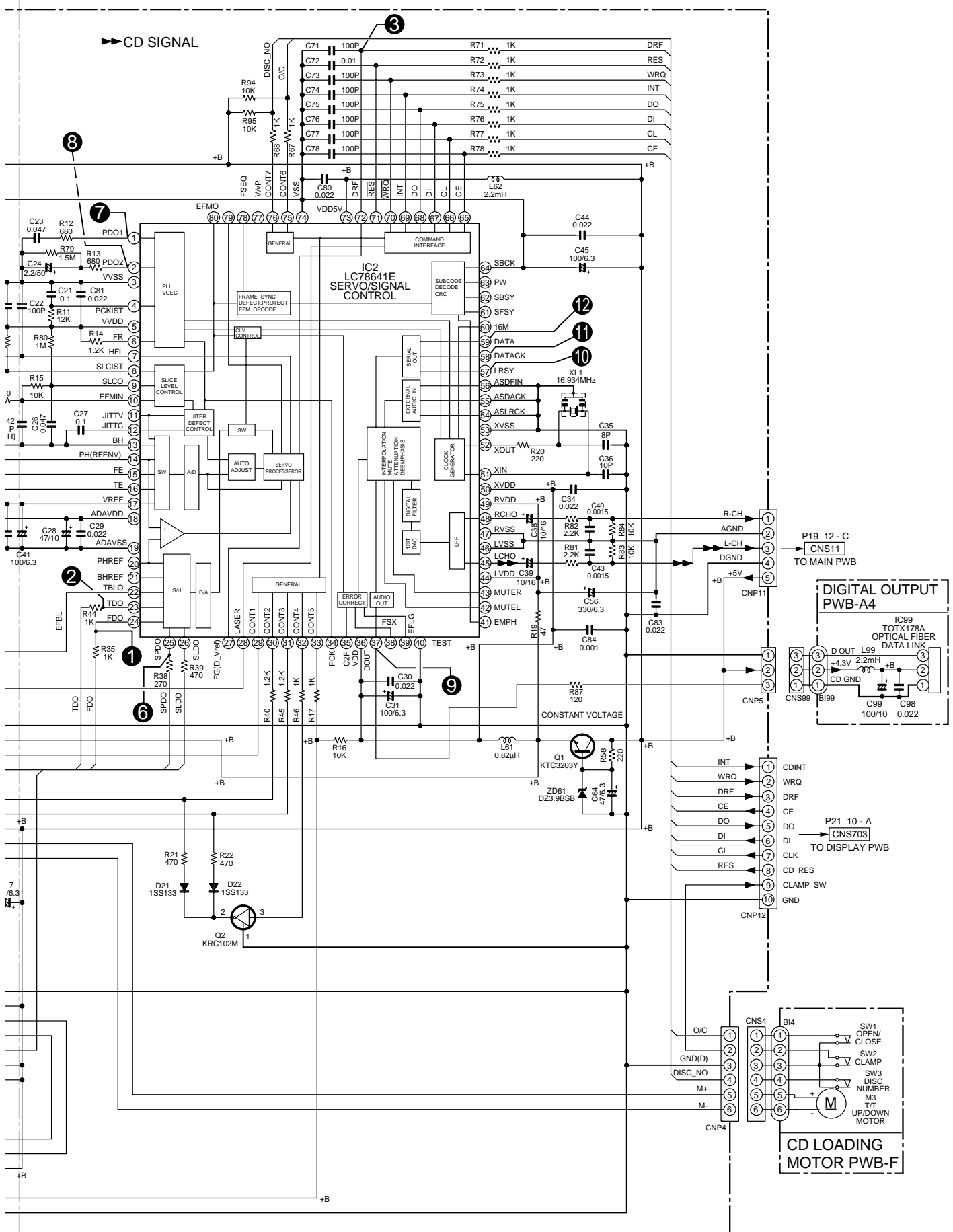
Figure 15 BLOCK DIAGRAM (3/3)



• NOTES ON SCHEMATIC DIAGRAM can be found on page 35.

Figure 16 SCHEMATIC DIAGRAM (1/10)  
- 16 -

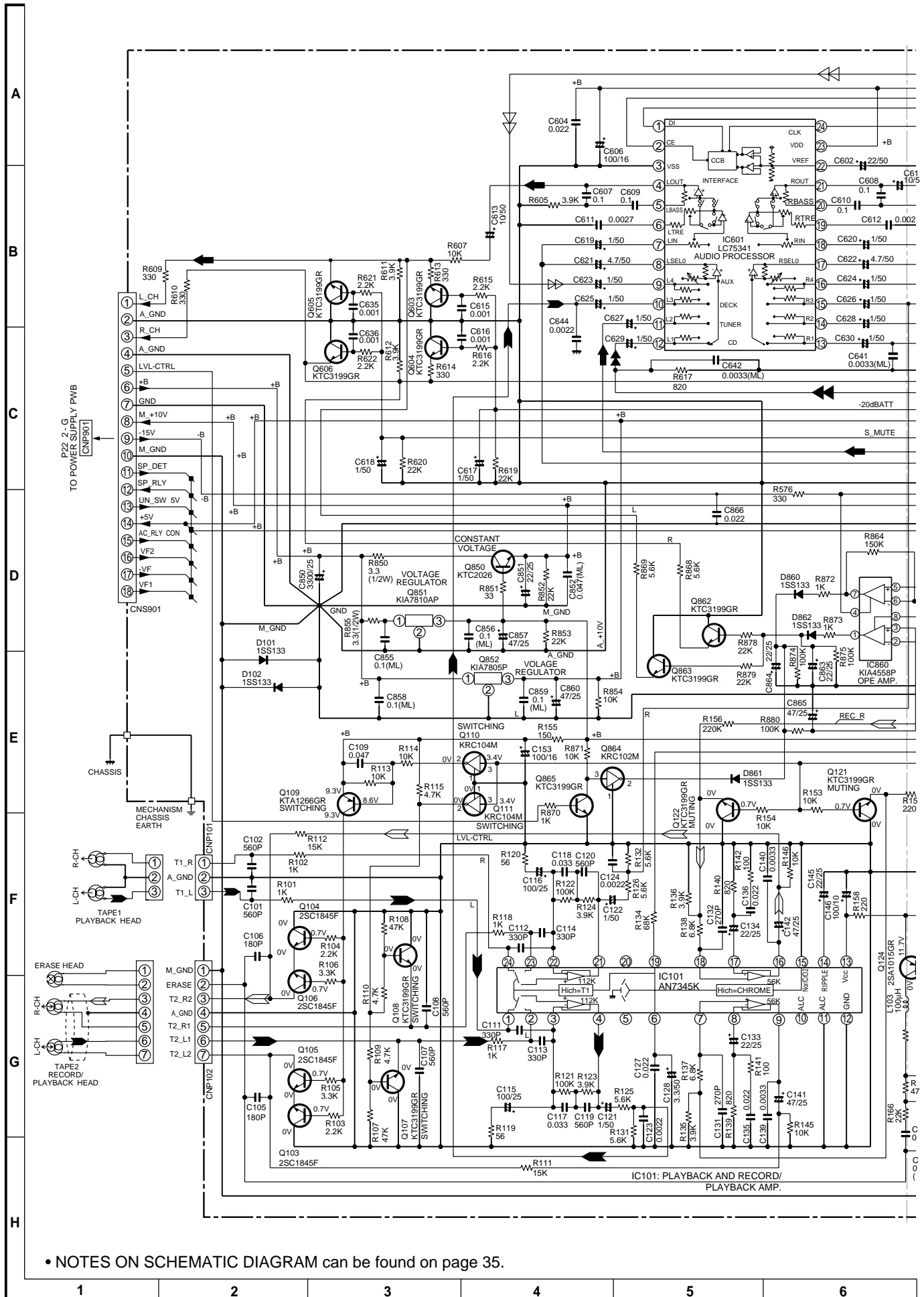




• The numbers ① to ⑬ are waveform numbers shown in page 36.

7	8	9	10	11	12
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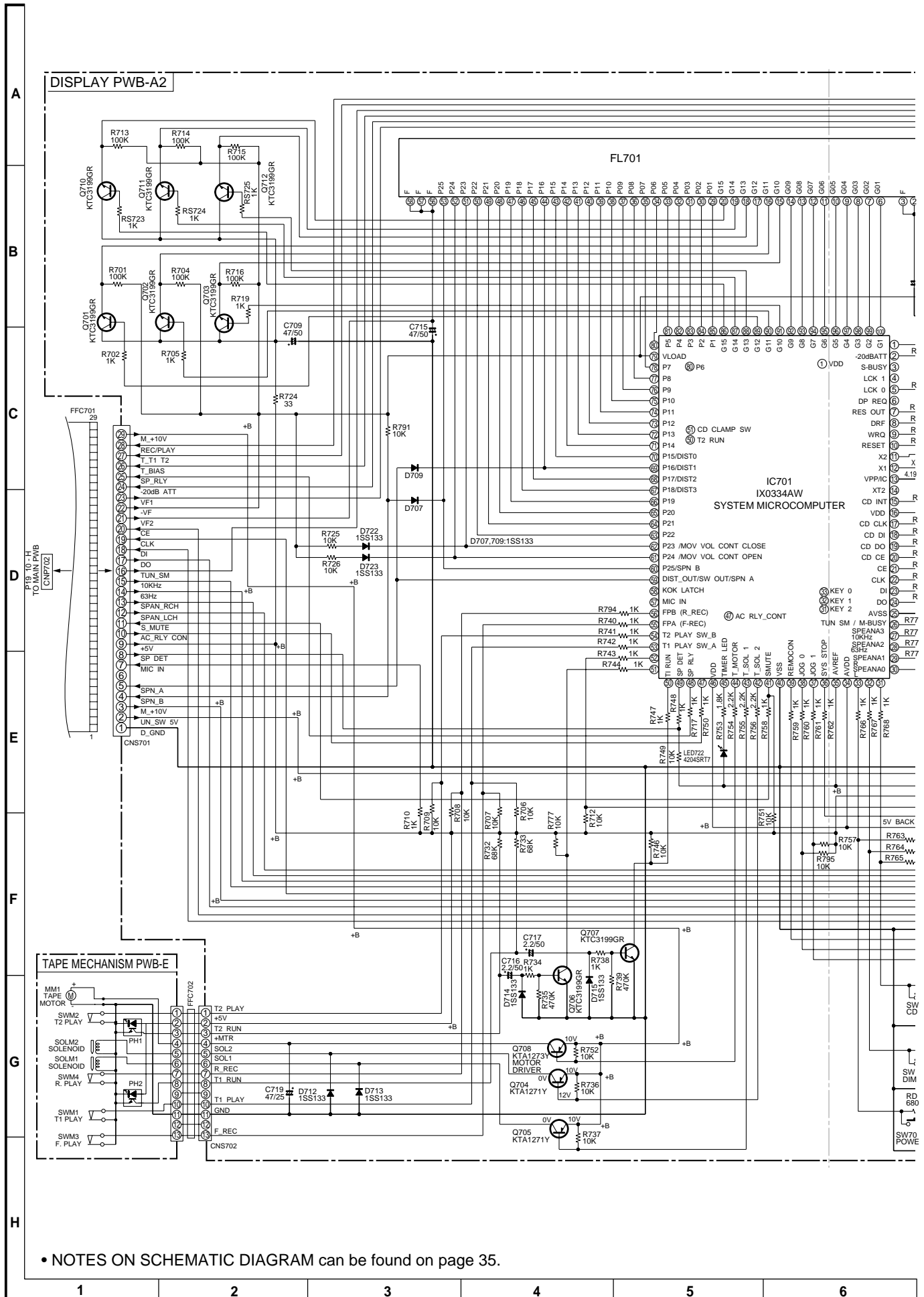
Figure 17 SCHEMATIC DIAGRAM (2/10)



• NOTES ON SCHEMATIC DIAGRAM can be found on page 35.

Figure 18 SCHEMATIC DIAGRAM (3/10)

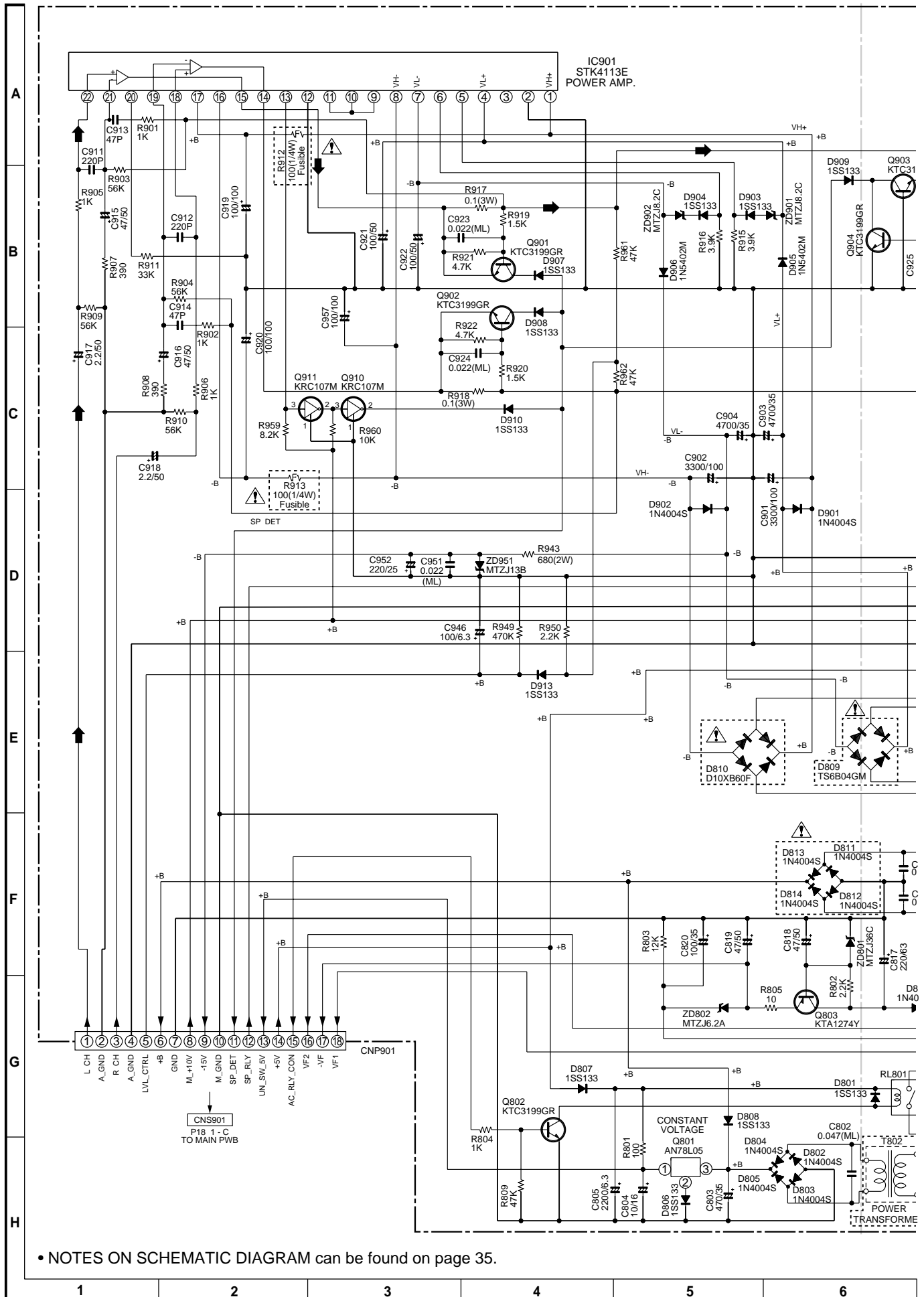




• NOTES ON SCHEMATIC DIAGRAM can be found on page 35.

Figure 20 SCHEMATIC DIAGRAM (5/10)





• NOTES ON SCHEMATIC DIAGRAM can be found on page 35.

Figure 22 SCHEMATIC DIAGRAM (7/10)

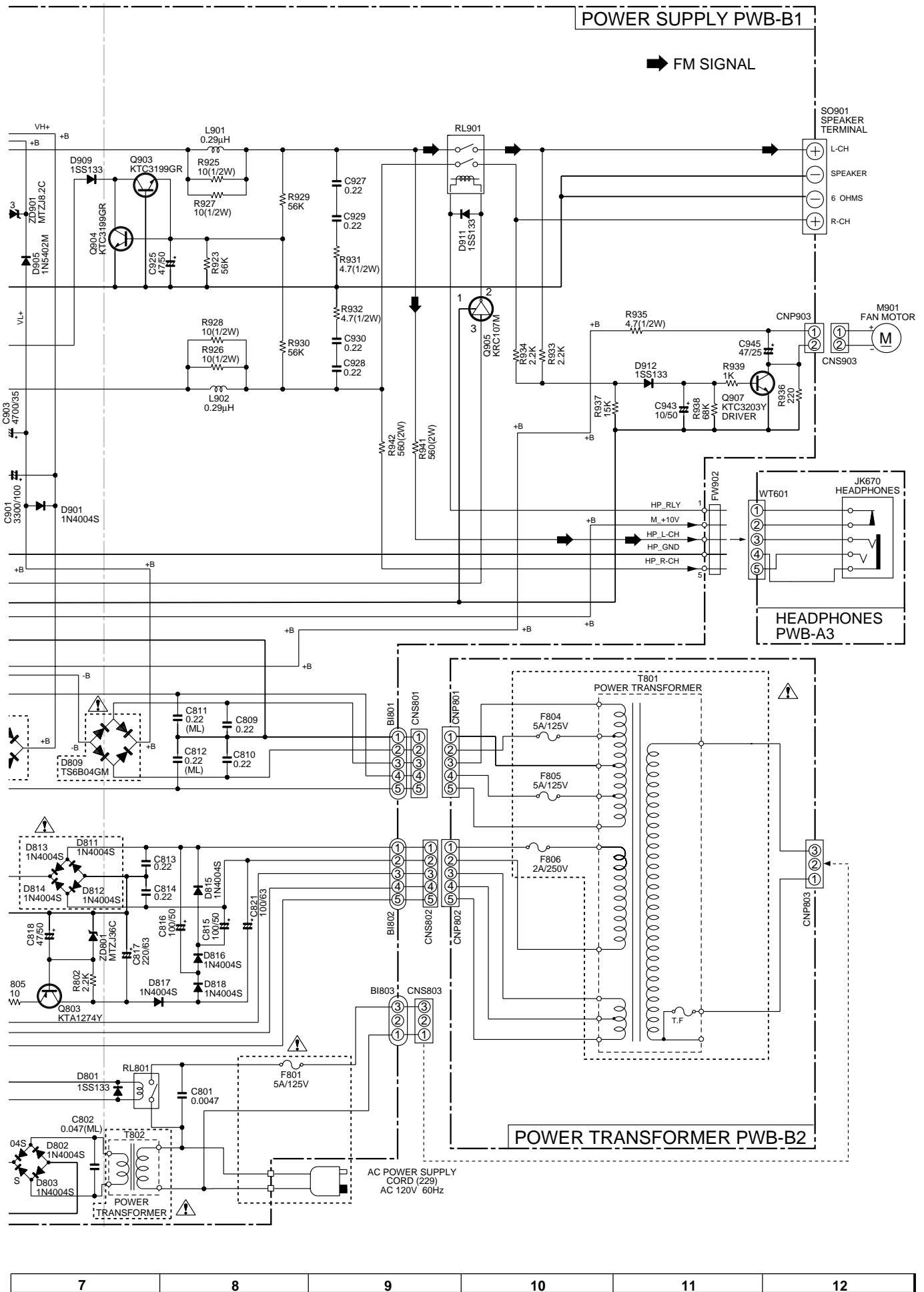


Figure 23 SCHEMATIC DIAGRAM (8/10)

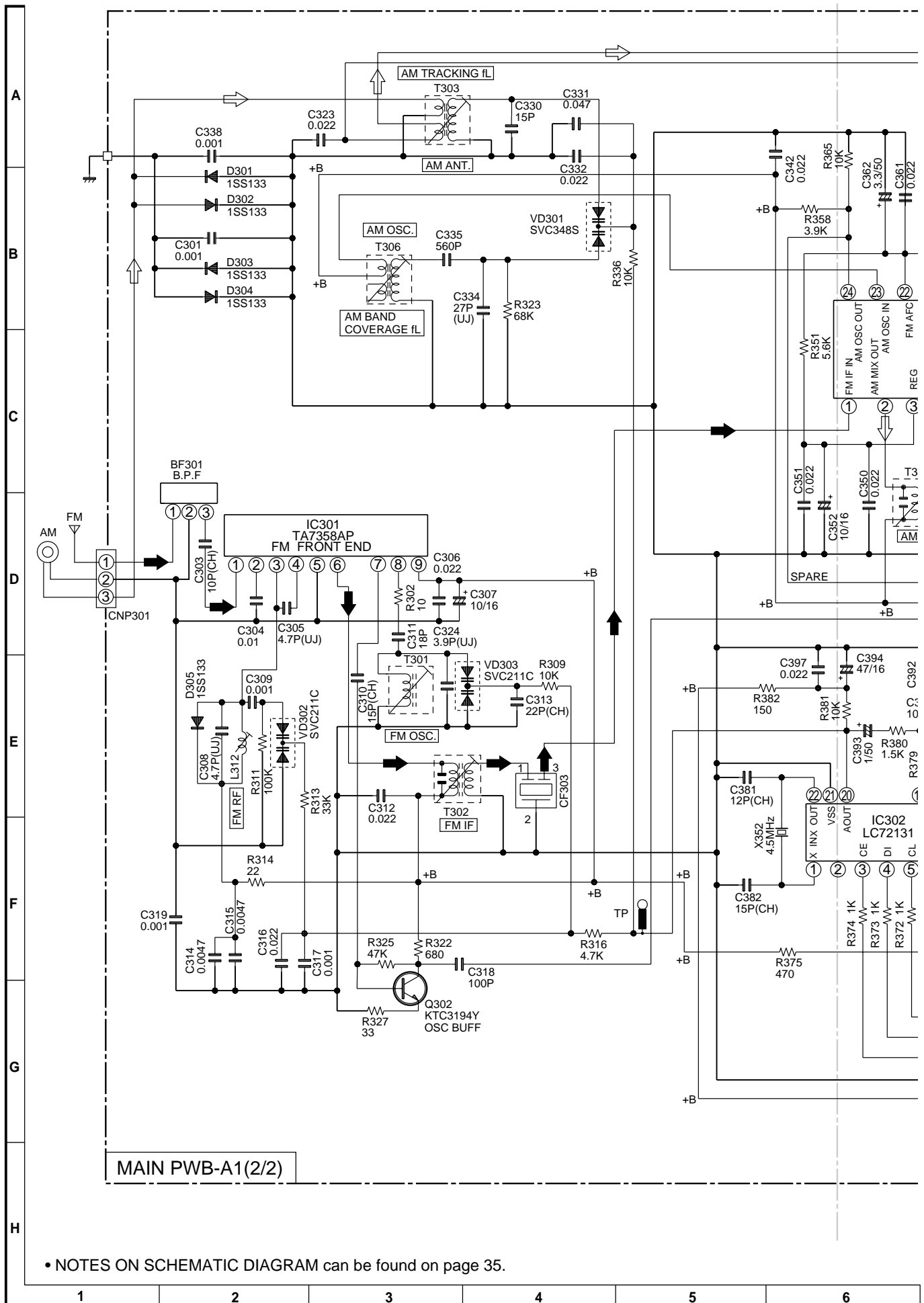


Figure 24 SCHEMATIC DIAGRAM (9/10)



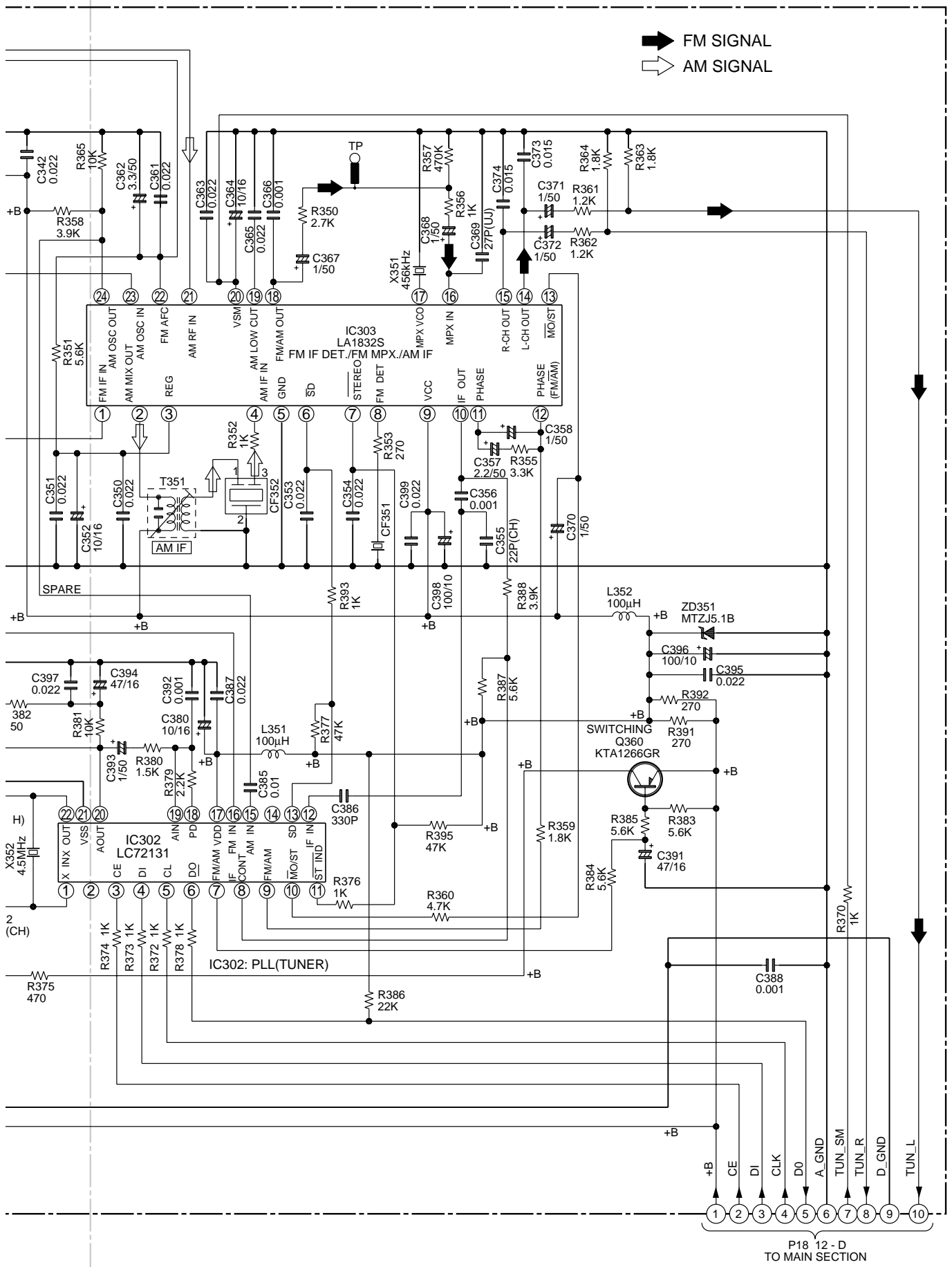
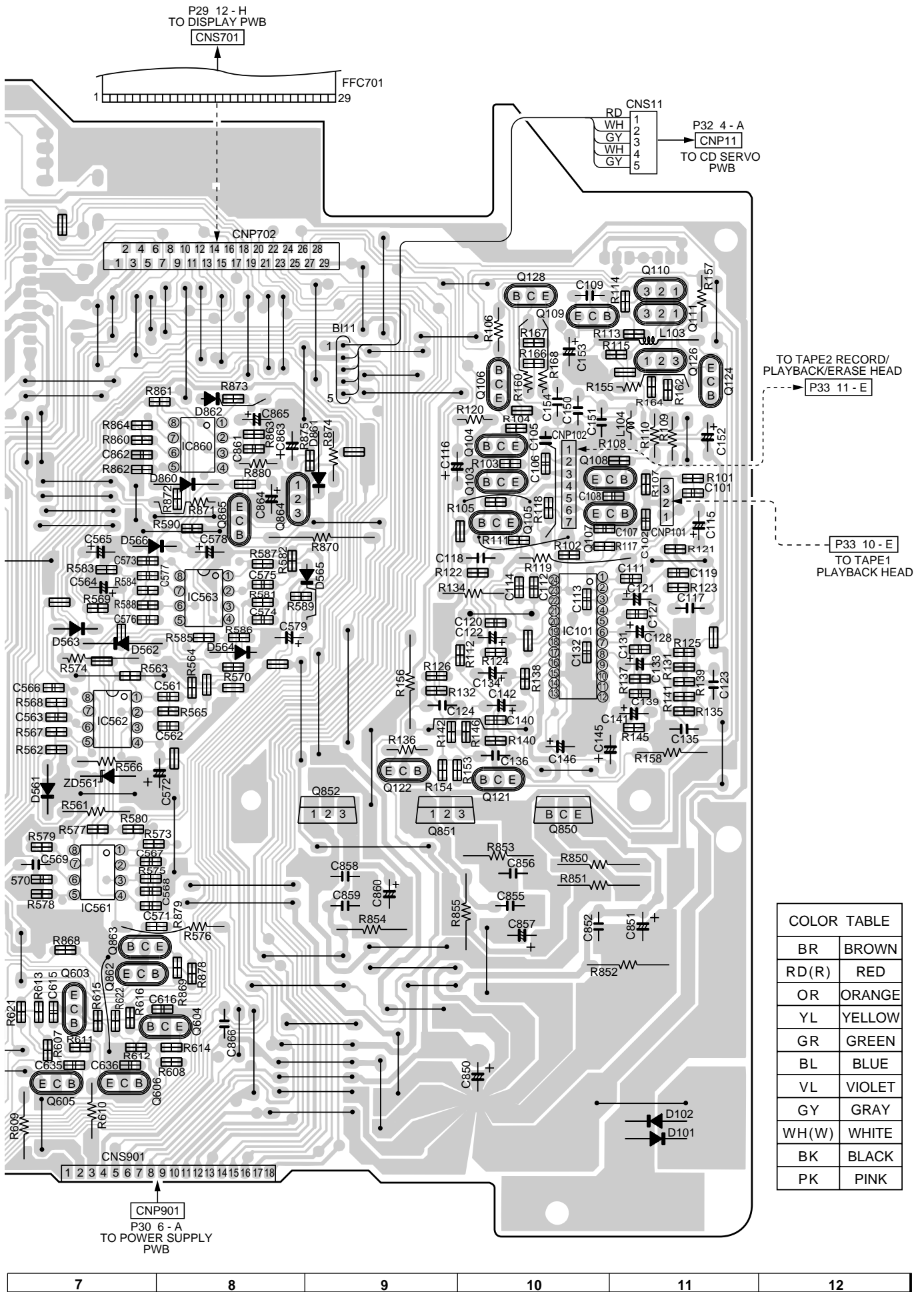


Figure 25 SCHEMATIC DIAGRAM (10/10)





COLOR TABLE	
BR	BROWN
RD(R)	RED
OR	ORANGE
YL	YELLOW
GR	GREEN
BL	BLUE
VL	VIOLET
GY	GRAY
WH(W)	WHITE
BK	BLACK
PK	PINK

Figure 27 WIRING SIDE OF P.W.BOARD (2/8)

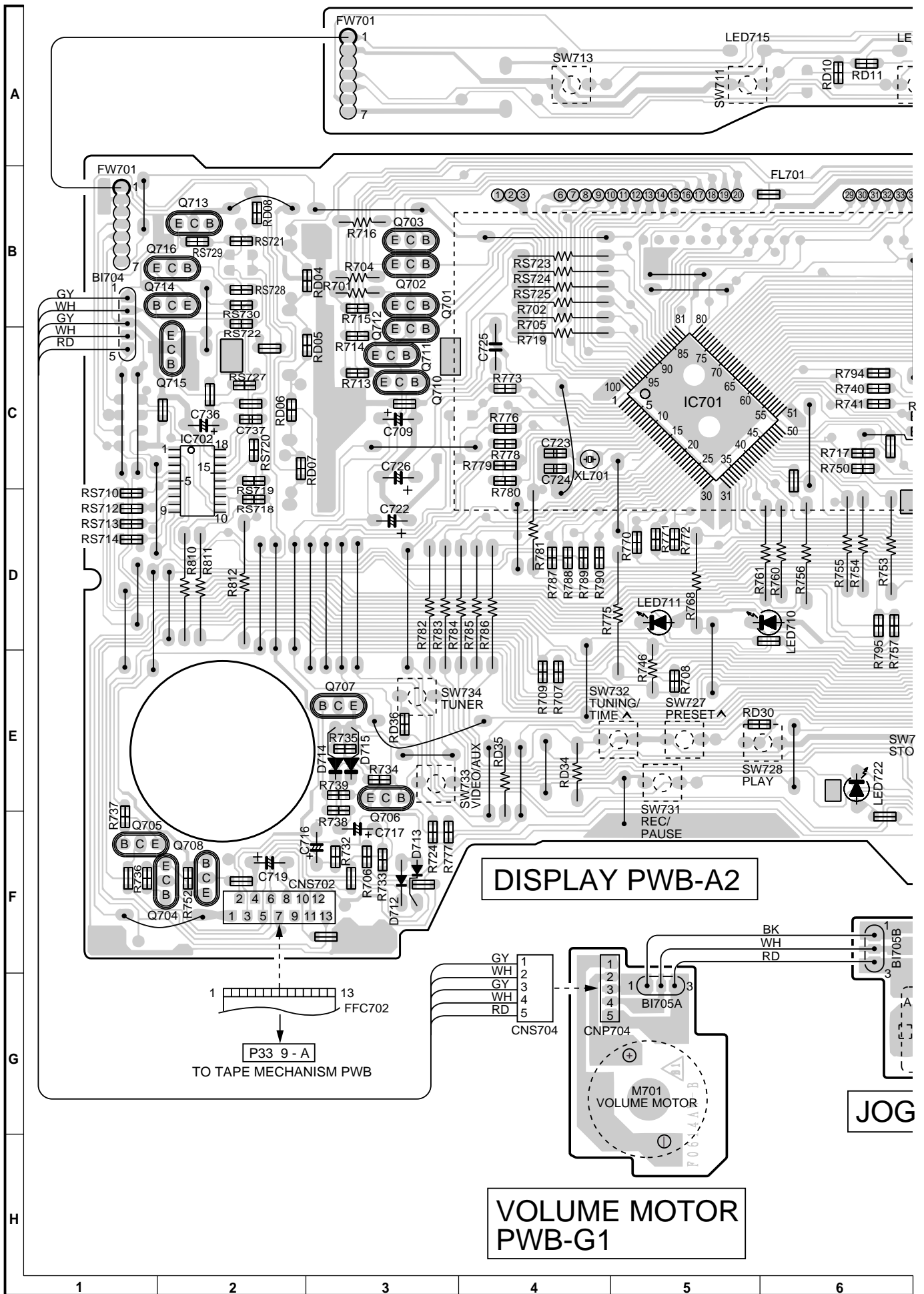
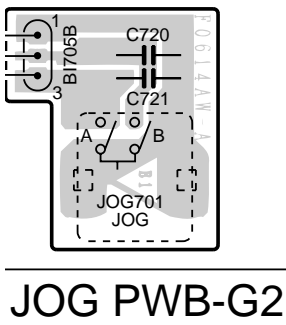
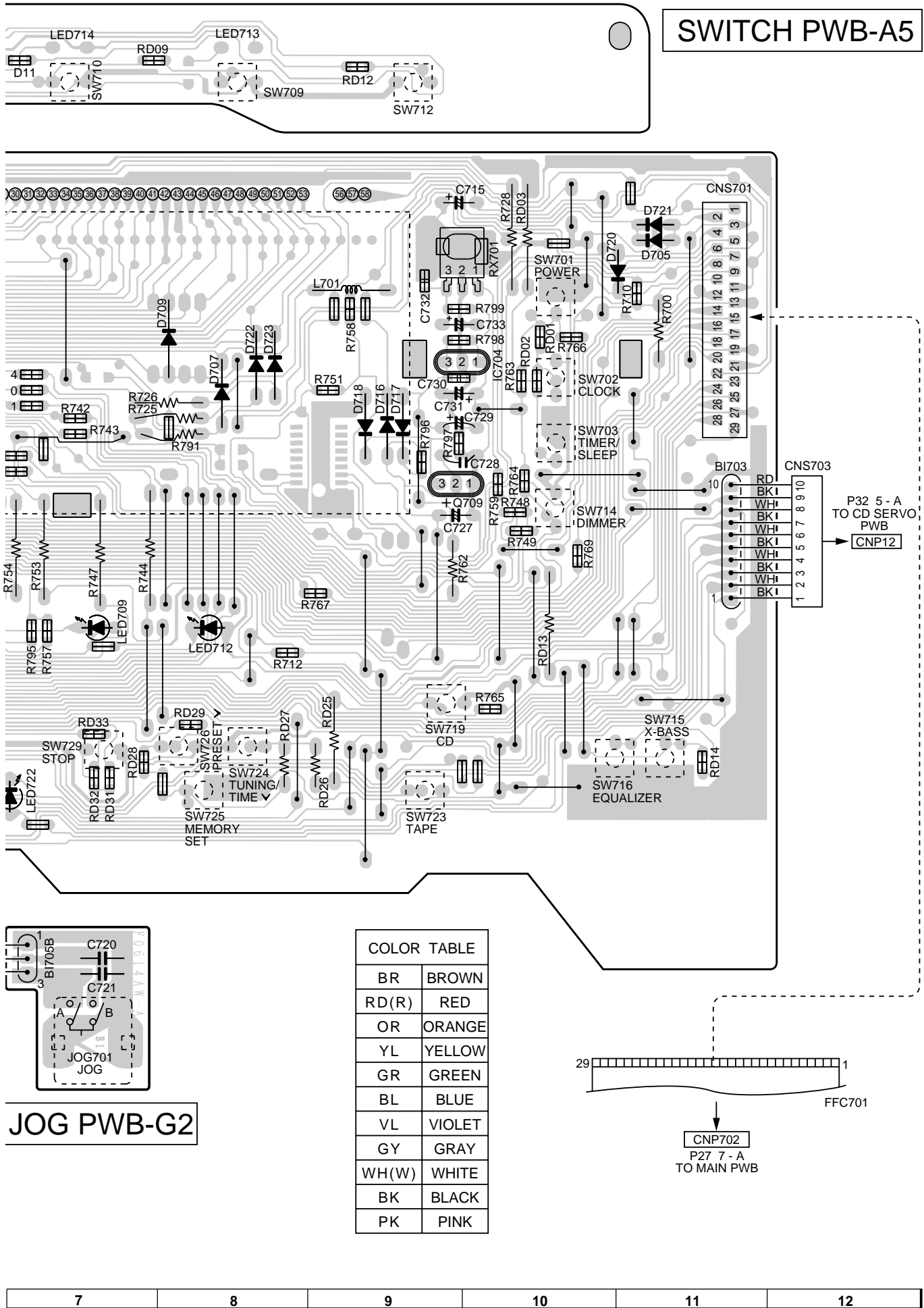


Figure 28 WIRING SIDE OF P.W.BOARD (3/8)

SWITCH PWB-A5



COLOR TABLE	
BR	BROWN
RD(R)	RED
OR	ORANGE
YL	YELLOW
GR	GREEN
BL	BLUE
VL	VIOLET
GY	GRAY
WH(W)	WHITE
BK	BLACK
PK	PINK

Figure 29 WIRING SIDE OF P.W.BOARD (4/8)

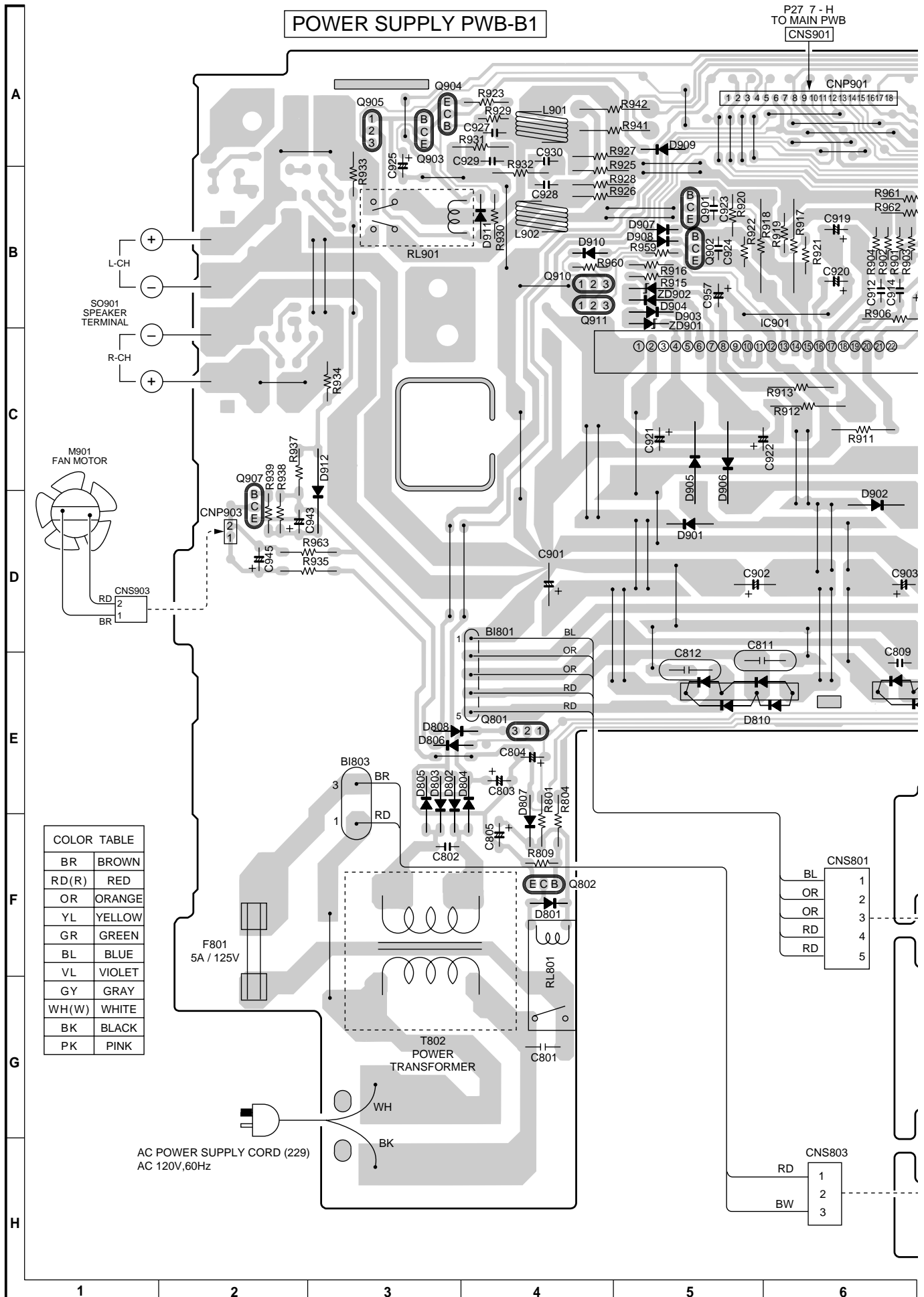


Figure 30 WIRING SIDE OF P.W.BOARD (5/8)

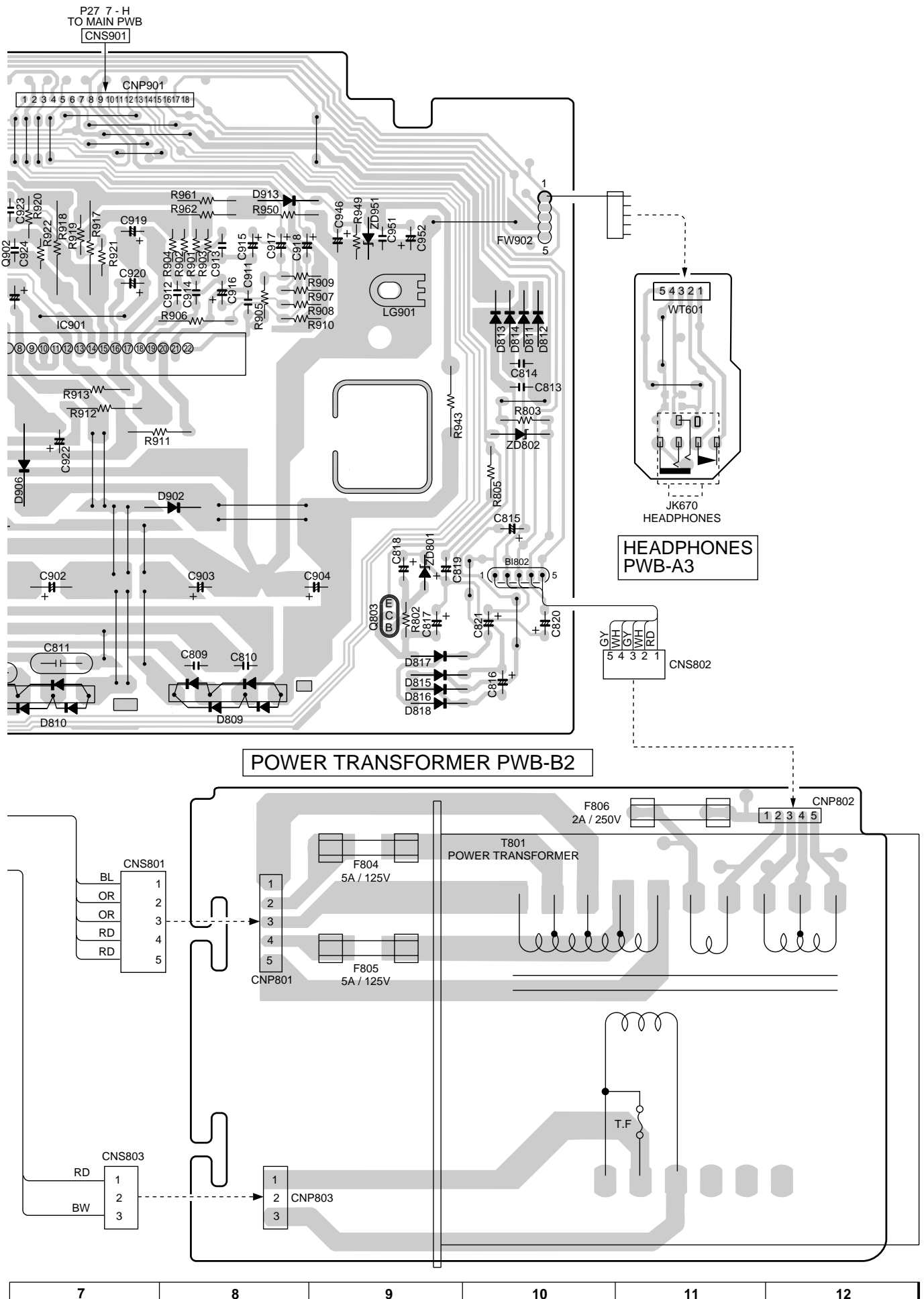
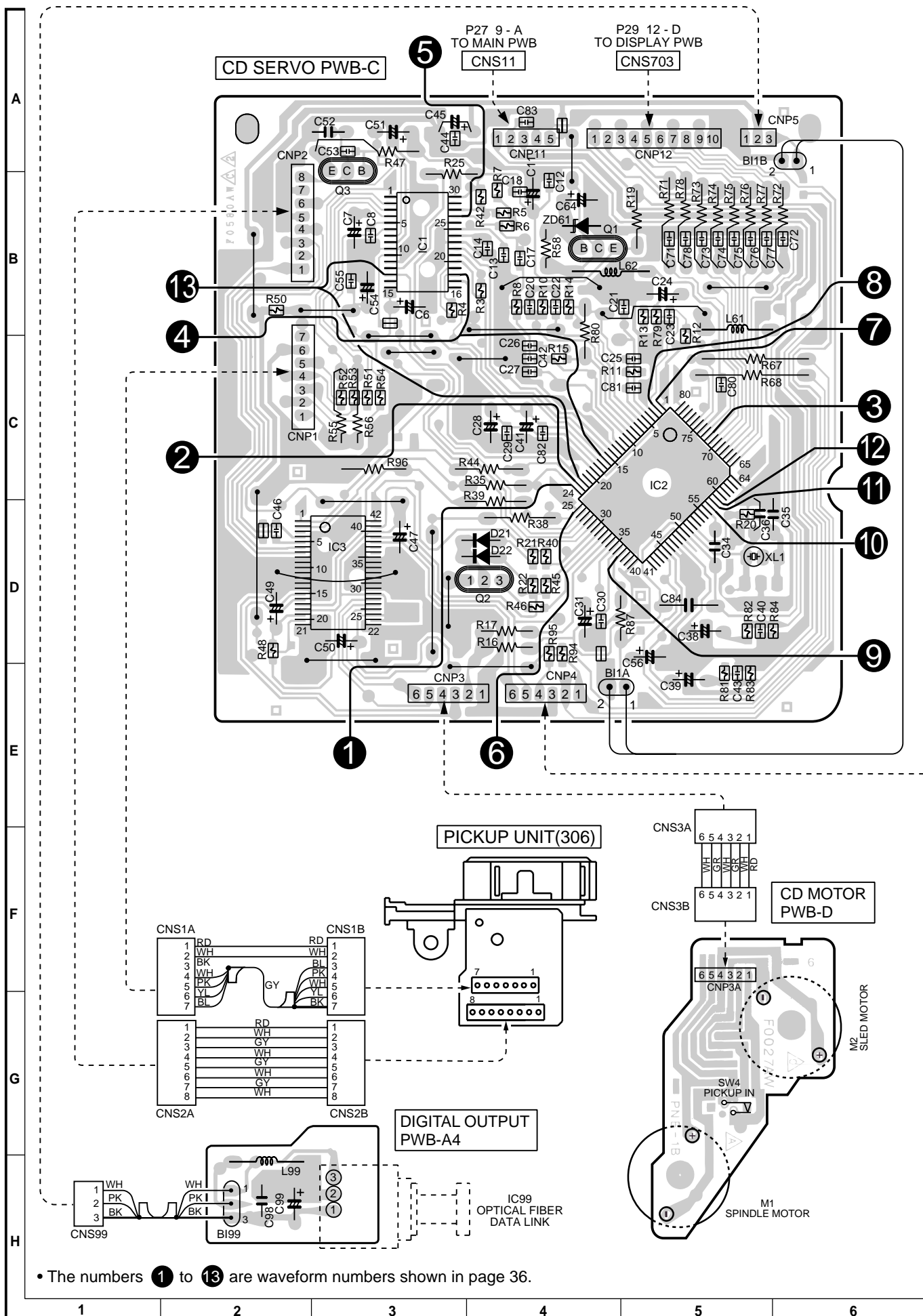


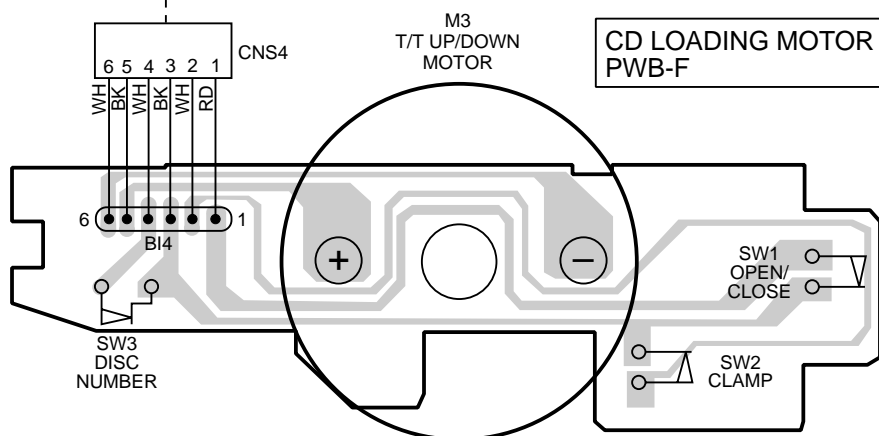
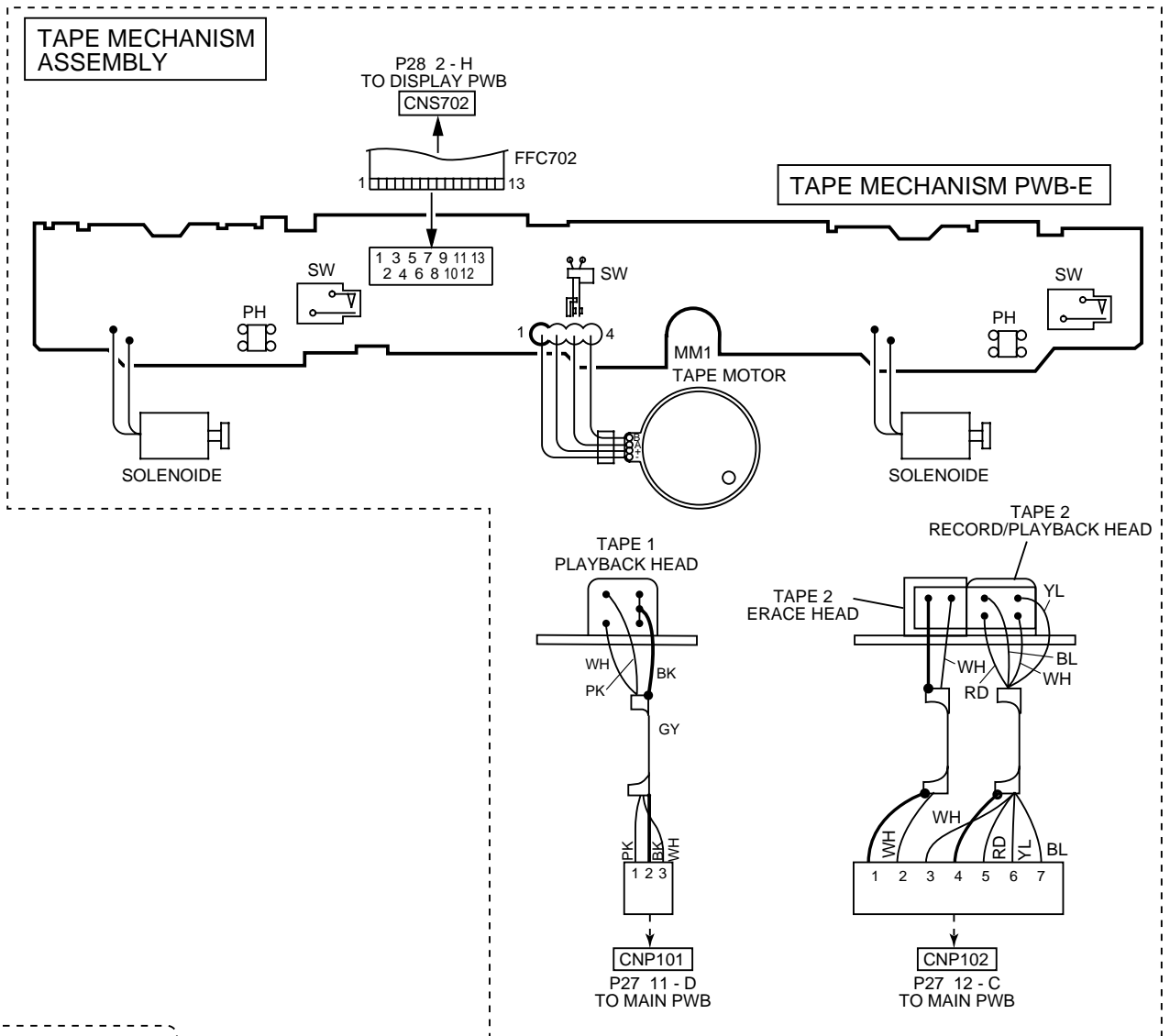
Figure 31 WIRING SIDE OF P.W.BOARD (6/8)



• The numbers 1 to 13 are waveform numbers shown in page 36.

Figure 32 WIRING SIDE OF P.W.BOARD (7/8)





COLOR TABLE	
BR	BROWN
RD(R)	RED
OR	ORANGE
YL	YELLOW
GR	GREEN
BL	BLUE
VL	VIOLET
GY	GRAY
WH(W)	WHITE
BK	BLACK
PK	PINK

Figure 33 WIRING SIDE OF P.W.BOARD (8/8)

VOLTAGE

IC1	
PIN NO.	VOLTAGE
1	1.6V
2	1.6V
3	1.6V
4	1.6V
5	1.6V
6	1.6V
7	0V
8	2.6V
9	0V
10	0V
11	0V
12	3.3V
13	1.6V
14	1.6V
15	1.6V
16	0V
17	0V
18	1.6V
19	1.6V
20	1.6V
21	1.6V
22	1.6V
23	0V
24	1.6V
25	0V
26	0V
27	0V
28	1.6V
29	1.6V
30	3.3V

IC2	
PIN NO.	VOLTAGE
1	0.7V
2	0V
3	0V
4	0V
5	3.3V
6	2.4V
7	0V
8	0V
9	1.6V
10	0V
11	4.7V
12	1.7V
13	0V
14	1.6V
15	1.6V
16	1.6V
17	1.6V
18	3.3V
19	0V
20	1.6V
21	1.6V
22	1.6V
23	1.6V
24	1.6V
25	1.6V
26	1.6V
27	1.6V
28	0V
29	0V
30	2.1V
31	2.1V
32	0V
33	3.3V
34	3.5V
35	3.3V
36	3.3V
37	3.3V
38	1.6V
39	1.6V
40	0V
41	0V
42	3.3V
43	3.3V
44	3.0V
45	1.5V
46	0V
47	0V
48	1.5V
49	3.0V
50	3.3V
51	1.8V
52	3.0V
53	0V
54	0V
55	0V
56	0V
57	1.7V
58	3.3V
59	0V
60	3.0V
61	1.6V
62	0V
63	2.4V
64	0V
65	0V
66	0V
67	0V
68	4.8V
69	4.9V
70	4.9V
71	4.6V
72	0V
73	4.9V
74	0V
75	0V
76	0V
77	3.2V
78	0V
79	0V
80	3.4V

IC101	
PIN NO.	VOLTAGE
1	0V (0V)
2	0V (0V)
3	0.5V (0.5V)
4	1.9V (1.9V)
5	0V (0V)
6	0V (0V)
7	0V (0V)
8	0.6V (0.6V)
9	3.3V (3.3V)
10	3.3V (3.3V)
11	0V (0V)
12	0V (0V)
13	6.7V (6.7V)
14	4.0V (4.0V)
15	0V (0V)
16	3.3V (3.3V)
17	0.6V (0.6V)
18	0V (0V)
19	0V (0V)
20	0V (0V)
21	1.9V (1.9V)
22	0.5V (0.5V)
23	0V (0V)
24	0V (0V)

IC301	
PIN NO.	VOLTAGE
1	0.8V (0V)
2	1.5V (0V)
3	3.6V (0.4V)
4	1.5V (0V)
5	0V (0V)
6	3.6V (0.4V)
7	2.8V (0.2V)
8	3.5V (0.3V)
9	3.6V (0.3V)

IC302	
PIN NO.	VOLTAGE
1	2.4V (2.4V)
2	0V (0V)
3	0V (0V)
4	0V (0V)
5	2.9V (2.9V)
6	4.8V (4.9V)
7	0.1V (9.9V)
8	4.2V (0V)
9	3.3V (0V)
10	0V (3.9V)
11	5.1V (5.1V)
12	2.2V (0V)
13	5.0V (5.0V)
14	0V (0V)
15	0V (2.4V)
16	2.3V (0V)
17	5.0V (5.0V)
18	0.6V (0.8V)
19	0.8V (1.8V)
20	2.0V (1.0 V)
21	0V (0V)
22	2.5V (3.0V)

IC303	
PIN NO.	VOLTAGE
1	2.1V (2.1V)
2	4.5V (4.8V)
3	2.1V (2.1V)
4	2.1V (2.1V)
5	0V (0V)
6	4.6V (4.9V)
7	4.6V (4.9V)
8	2.4V (3.2V)
9	4.5V (4.8V)
10	3.9V (0V)
11	3.3V (1.8V)
12	3.3V (1.1V)
13	3.5V (2.0V)
14	1.2V (1.2V)
15	1.2V (1.2V)
16	2.0V (2.0V)
17	2.7V (0V)
18	2.1V (0.9V)
19	0V (1.9V)
20	0.3V (0.9V)
21	2.6V (2.0V)
22	2.6V (2.0V)
23	4.5V (4.8V)
24	3.0V (3.3V)

IC561	
PIN NO.	VOLTAGE
1	13.1V
2	13.1V
3	1.3V
4	0V
5	1.3V
6	13.1V
7	13.1V
8	18.3V

IC562	
PIN NO.	VOLTAGE
1	13.0V
2	13.0V
3	12.8V
4	0V
5	12.8V
6	13.0V
7	13.0V
8	18.3V

IC563	
PIN NO.	VOLTAGE
1	13.1V
2	13.1V
3	1.4V
4	0V
5	1.4V
6	13.1V
7	13.1V
8	18.3V

IC860	
PIN NO.	VOLTAGE
1	-6V
2	2V
3	0.6V
4	-7.6V
5	0V
6	0V
7	0V
8	6.3V

IC701			
PIN NO.	VOLTAGE	PIN NO.	VOLTAGE
1	4.6V	51	4.9V
2	4.6V	52	0V
3	4.6V	53	0V
4	0V	54	4.9V
5	0V	55	4.9V
6	0V	56	4.9V
7	4.6V	57	4.9V
8	0V	58	0V
9	4.9V	59	34.3V
10	4.7V	60	-20.1V
11	4.9V	61	-16.4V
12	2.6V	62	-12.2V
13	0V	63	-16.5V
14	0V	64	-14.2V
15	4.8V	65	-31.9V
16	4.6V	66	-29.7V
17	4.6V	67	-31.9V
18	0V	68	-29.7V
19	4.9V	69	-18.5V
20	0V	70	-29.7V
21	0V	71	-27.5V
22	0V	72	-29.8V
23	0V	73	-18.8V
24	4.8V	74	-18.8V
25	0V	75	-27.7V
26	0V	76	-23.4V
27	0V	77	-23.1V
28	0V	78	-20.9V
29	0V	79	-34.1V
30	0V	80	-18.9V
31	4.9V	81	-28.7V
32	5.0V	82	-26.0V
33	4.9V	83	-29.8V
34	4.6V	84	-27.6V
35	5.0V	85	-29.7V
36	4.9V	86	-20.6V
37	4.9V	87	-20.5V
38	0V	88	-31.9V
39	4.8V	89	-31.8V
40	0V	90	-31.8V
41	1.9V	91	-32.0V
42	9.1V	92	-31.9V
43	9.1V	93	-31.9V
44	0V	94	-31.9V
45	3.8V	95	-31.9V
46	4.6V	96	-31.9V
47	4.5V	97	-31.9V
48	4.5V	98	-31.9V
49	4.9V	99	-31.9V
50	3.0V	100	-31.9V

IC702	
PIN NO.	VOLTAGE
1	0V
2	0V
3	0V
4	0V
5	9V
6	9V
7	9V
8	5V
9	9V
10	0V
11	9V
12	0V
13	5V
14	1.8V
15	9V
16	9V
17	0V
18	5V

Q851	
PIN NO.	VOLTAGE
1	20V
2	0V
3	10V

Q850	
PIN NO.	VOLTAGE
1	10V
2	20V
3	9.5V

Q852	
PIN NO.	VOLTAGE
1	20V
2	0V
3	5.0V

IC704	
PIN NO.	VOLTAGE
1	5.0V
2	0V
3	5.0V

IC901	
PIN NO.	VOLTAGE
1	77.6V
2	0V
3	37V
4	37V
5	37V
6	-23V
7	-37V
8	-77V
9	0V
10	0V
11	0V
12	0V
13	3.1V
14	0V
15	0V
16	-75V
17	75V
18	0V
19	0V
20	-75V
21	0V
22	0V
23	0V

## NOTES ON SCHEMATIC DIAGRAM

- Resistor:  
To differentiate the units of resistors, such symbol as K and M are used: the symbol K means 1000 ohm and the symbol M means 1000 kohm and the resistor without any symbol is ohm-type resistor. Besides, the one with "Fusible" is a fuse type.
- Capacitor:  
To indicate the unit of capacitor, a symbol P is used: this symbol P means micro-micro-farad and the unit of the capacitor without such a symbol is microfarad. As to electrolytic capacitor, the expression "capacitance/withstand voltage" is used.  
(CH), (TH), (RH), (UJ): Temperature compensation  
(ML): Mylar type  
(P.P.): Polypropylene type
- Schematic diagram and Wiring Side of P.W.Board for this model are subject to change for improvement without prior notice.
- The indicated voltage in each section is the one measured by Digital Multimeter between such a section and the chassis with no signal given.
  1. In the tuner section,
    - ( ) indicates AM
    - < > indicates FM stereo
  2. In the main section, a tape is being played back.
  3. In the deck section, a tape is being played back.
    - ( ) indicates the record state.
  4. In the power section, a tape is being played back.
  5. In the CD section, the CD is stopped.
- Parts marked with "△" ( □ = = = □ ) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

REF. NO	DESCRIPTION	POSITION
SW1	OPEN/CLOSE	ON—OFF
SW2	CLAMP	ON—OFF
SW3	DISC NUMBER	ON—OFF
SW4	PICKUP IN	ON—OFF
SW701	POWER	ON—OFF
SW702	CLOCK	ON—OFF
SW703	TIMER/SLEEP	ON—OFF
SW709	DISC-1	ON—OFF
SW710	DISC-2	ON—OFF
SW711	DISC-3	ON—OFF
SW712	DISC SKIP	ON—OFF
SW713	OPEN/CLOSE	ON—OFF
SW714	DIMMER	ON—OFF

REF. NO	DESCRIPTION	POSITION
SW715	EQUALIZER	ON—OFF
SW716	X-BASS	ON—OFF
SW719	CD	ON—OFF
SW723	TAPE	ON—OFF
SW724	TUNING/TIME DOWN	ON—OFF
SW725	MEMORY SET	ON—OFF
SW726	PRESET DOWN	ON—OFF
SW727	RESET UP	ON—OFF
SW728	PLAY	ON—OFF
SW730	STOP	ON—OFF
SW731	REC/PAUSE	ON—OFF
SW732	TUNING/TIME UP	ON—OFF
SW733	VIDEO/AUX	ON—OFF
SW734	TUNER	ON—OFF

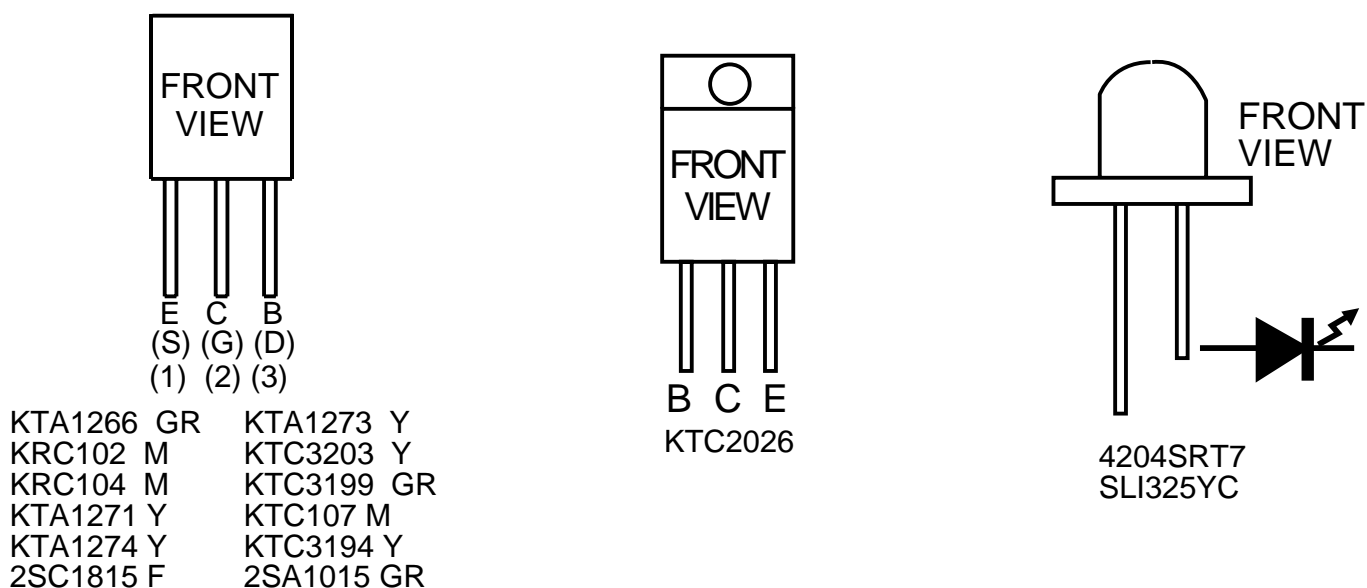
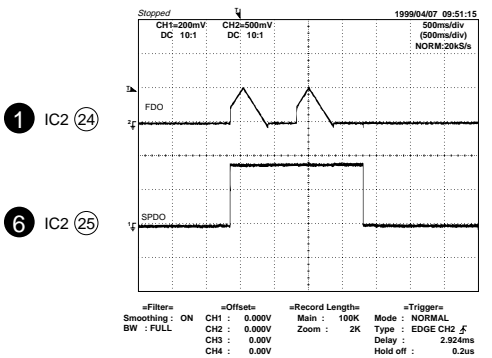
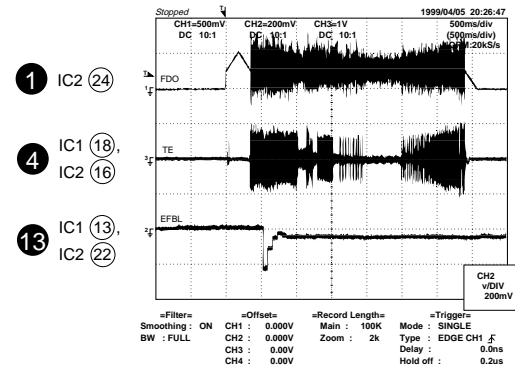
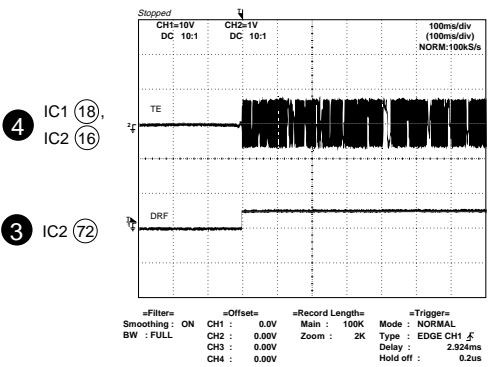
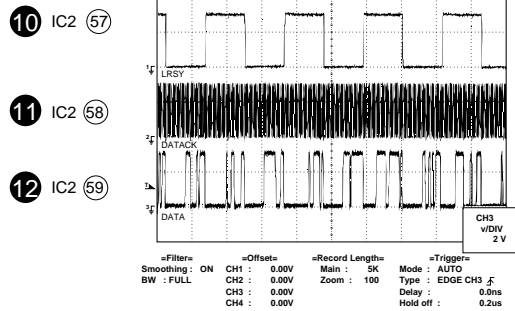
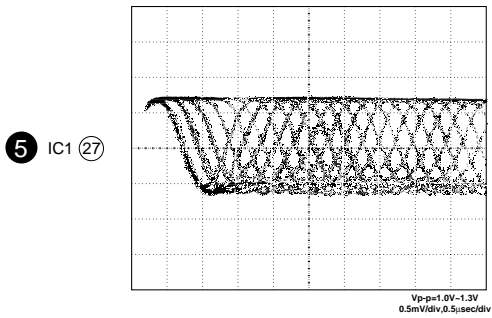
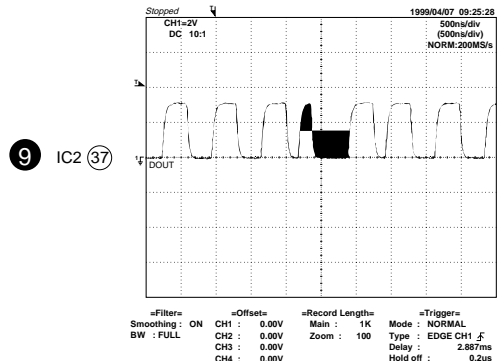
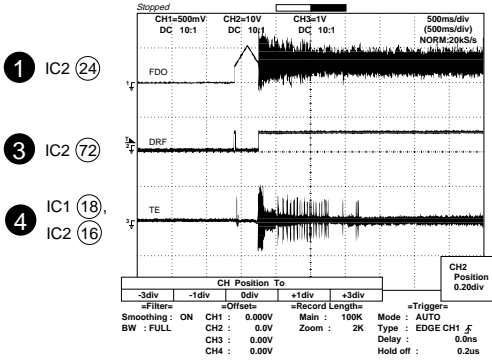
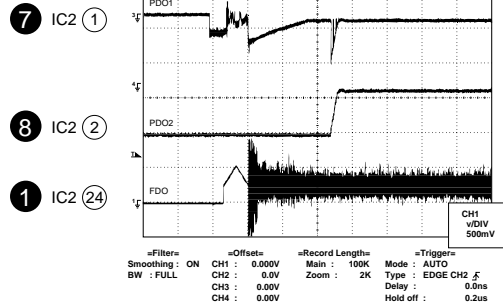
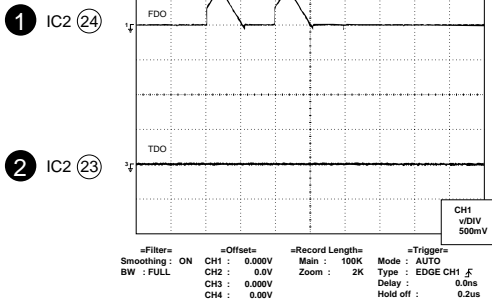


Figure 35 TYPES OF TRANSISTOR AND LED

# WAVEFORMS OF CD CIRCUIT



## TROUBLE SHOOTING

### When the CD does not function

When the CD section does not operate when the objective lens of the optical pickup is dirty, this section may not operate. Clean the objective lens, and check the playback operation. When this section does not operate even after the above step is taken, check the following items.

Remove the cabinet and follow the trouble shooting instructions.

"Track skipping and/or no TOC (Table Of Contents) may be caused by build up of dust other foreign matter on the laser pickup lens. Before attempting any adjustment make certain that the lens is clean. If not, clean it as mentioned below."

Turn the power off.

Gently clean the lens with a lens cleaning tissue and a small amount of isopropyl alcohol.

Do not touch the lens with the bare hand.

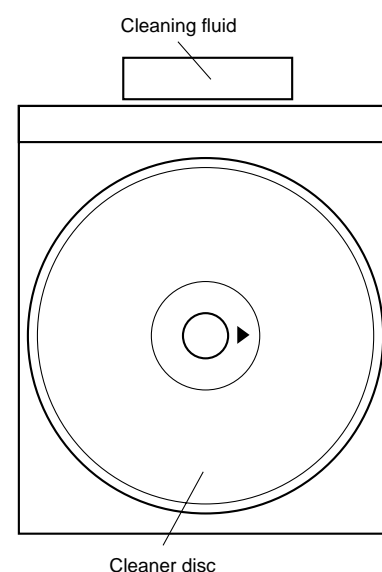
		Parts code
1.	CD optical pickup Lens cleaner disc	UDSKA0004AFZZ

#### HOW TO USE

- Using the brush in the cleaner cap, apply 1 or 2 drops of the cleaning fluid to the brush on the CD cleaner disc which has the mark next to it.
- Place the CD cleaner disc onto the CD disc tray with the brush side down, then press the play button.
- You will hear music for about 20 seconds and the CD player will automatically stop. If it continuous to turn, press the stop button.

#### CAUTION

- The CD lens cleaner should be effective for 30-50 operations, however if the brushes become worn out earlier then please the cleaner disc.
- If the CD cleaner brushes become very wet then wipe off any excess fluid with a soft cloth.
- Do not drink the cleaner fluid or allow it to come in contact with the eyes. In the event of this happening then drink and / or rinse with clean water and seek medical advice.
- The CD cleaner disk must not be used on car CD players or on computer CD-ROM drives.
- All rights reserved. Unauthorized duplicating, broadcasting and renting this product is prohibited by law.



### When a CD cannot be played

#### 1. "E-CD01" is displayed.

- Check the power to IC2 (LC78641E), the presence of the clock signal (16.934 MHz) and the status of the RESET terminal (pin 71 on IC2).
- Does the pickup move to the PICKUP-IN Switch (SW4) position?

If (1) and (2) are OK, check the system microcomputer (especially the communication line with the DSP).

#### 2. Pressing the CD operation key is accepted, but playback does not occur.

- Focus-HF system check
- Tracking system check
- Spin system check
- PLL system check
- Others

**(1) Focus-HF system check**

Although a CD is inserted and the cover is closed, "NO DISC" is displayed.

Press the OPEN/CLOSE switch (SW1) without inserting a disc, and try starting the playback operation.

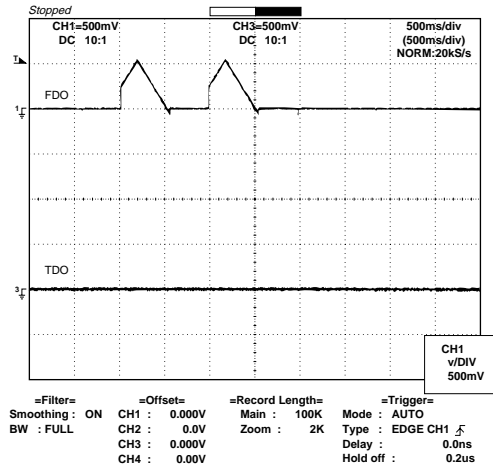
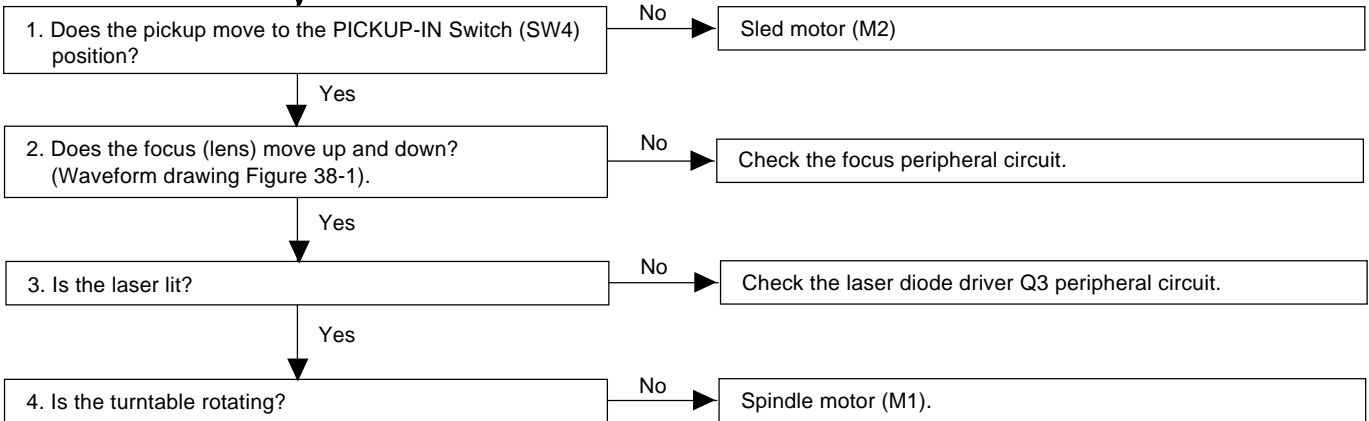


Figure 38-1



When a disc is loaded, start playback operation.

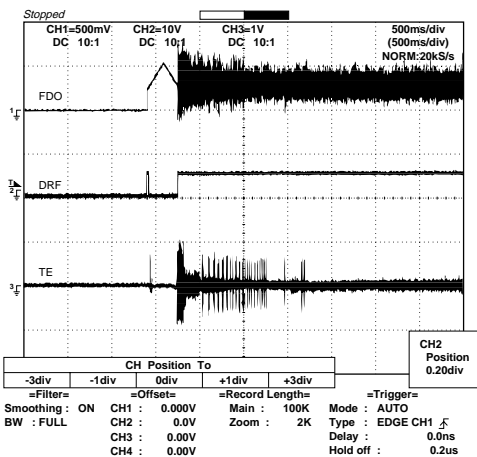
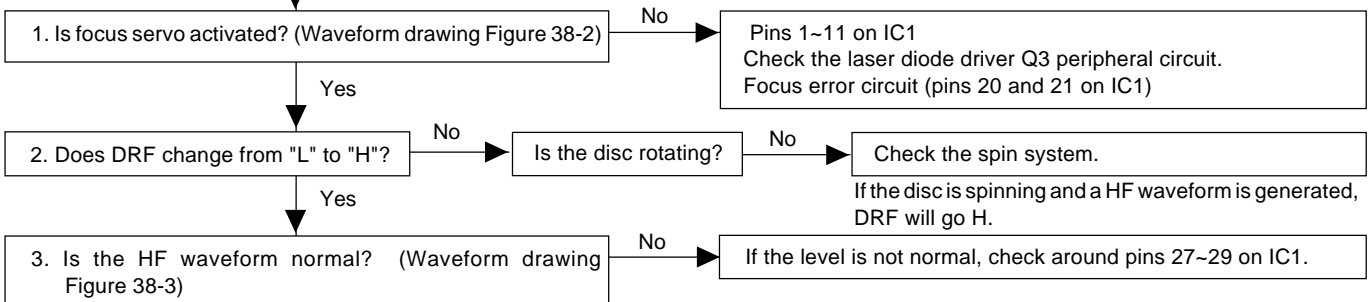


Figure 38-2

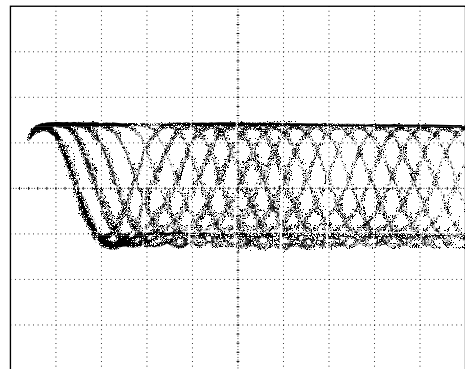


Figure 38-3

**(2) Tracking system check**

Check the TE waveform at pin 18 on IC1.

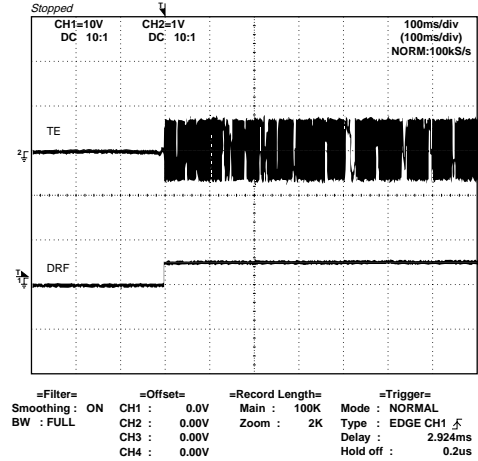
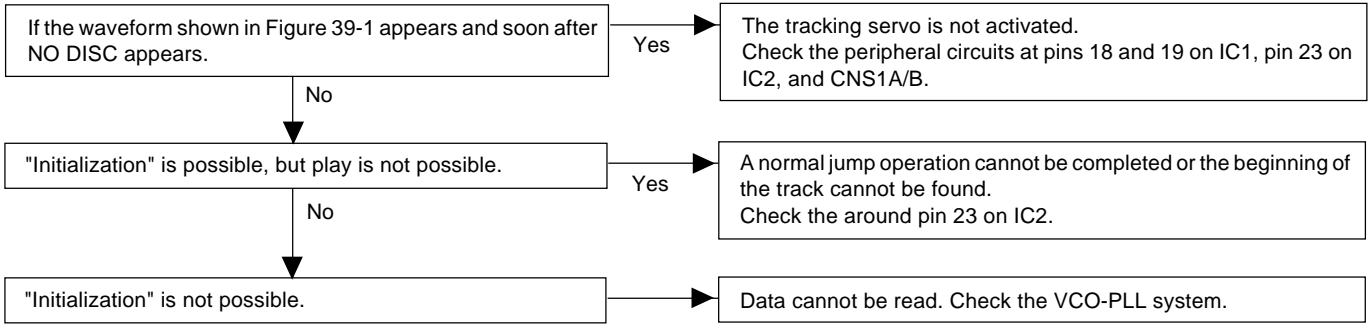


Figure 39-1

**(3) Spin system check**

Press the OPEN/CLOSE switch without inserting a disc, and then try starting the play operation.

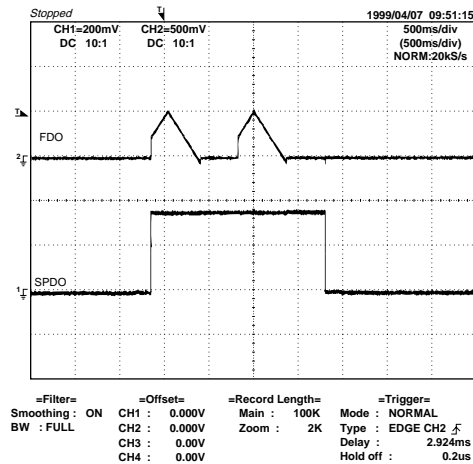
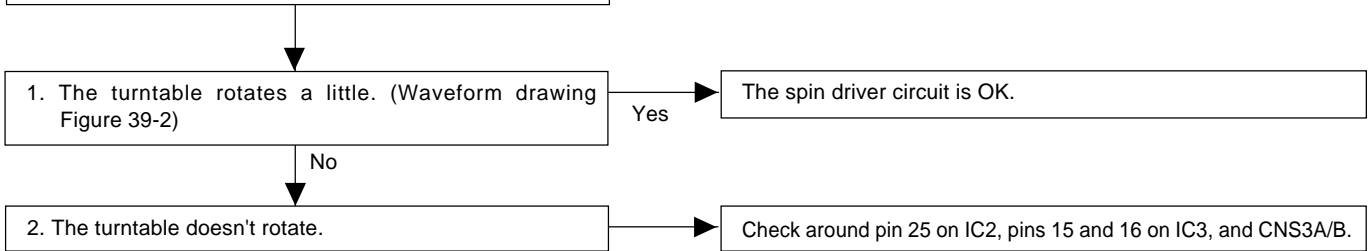


Figure 39-2

# CD-BA3000

## (4) PLL system check

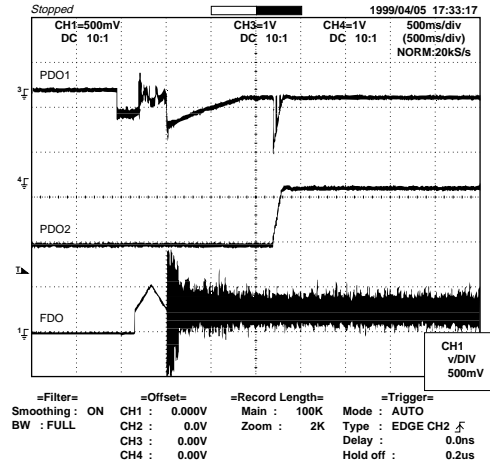
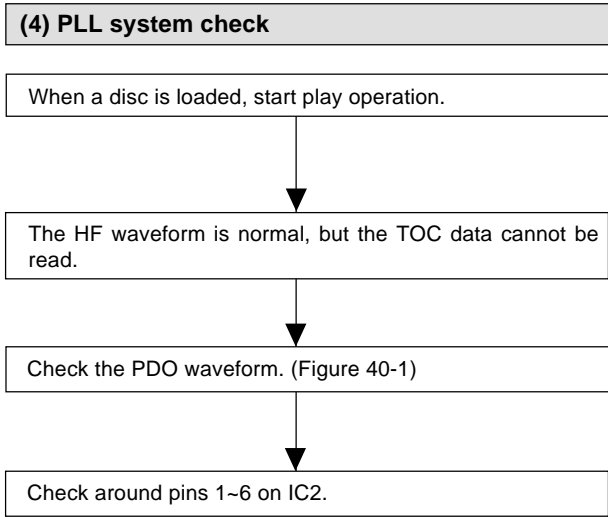


Figure 40-1

## (5) Others

The HF waveform is normal and the time is displayed normally, but no sound is produced. Or the sound has dropouts.

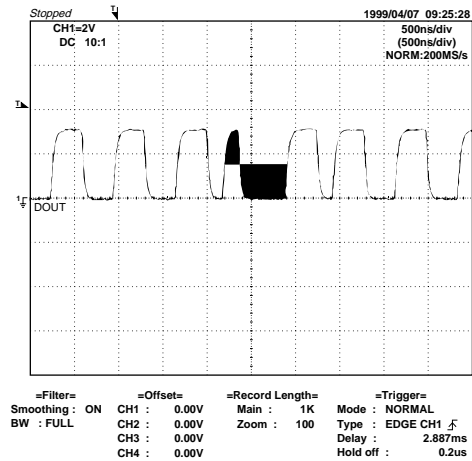
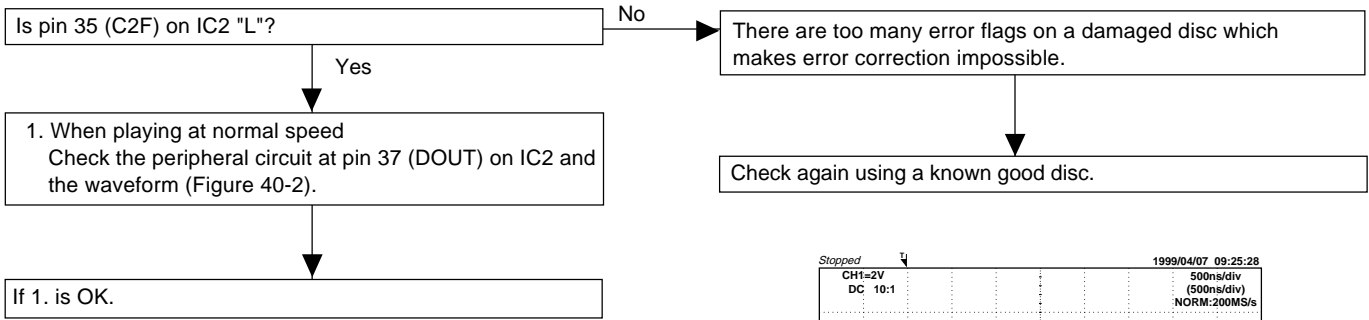
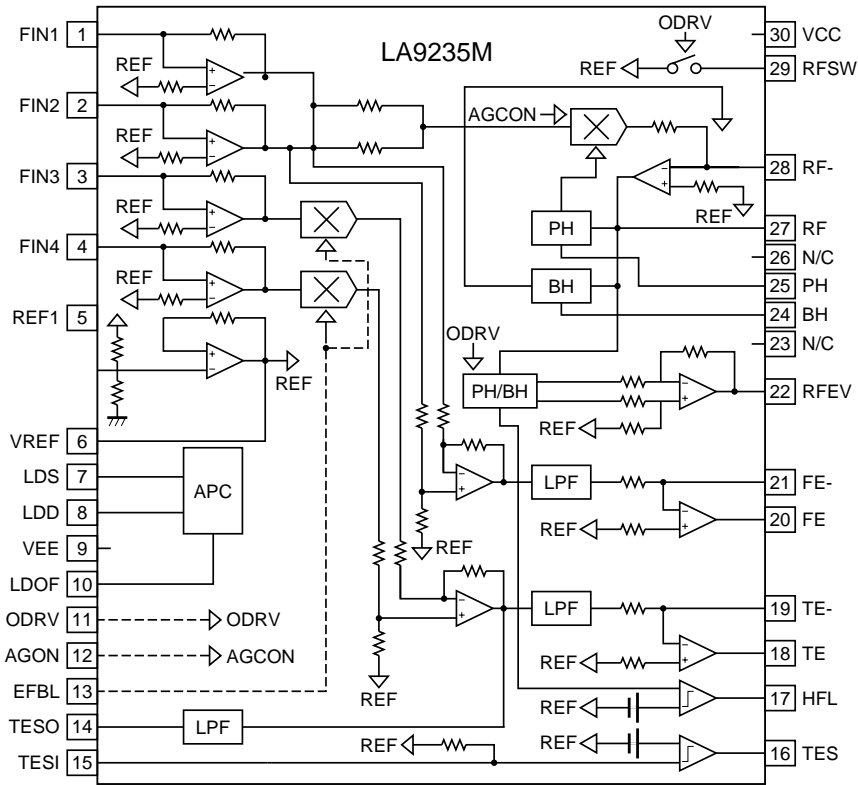


Figure 40-2

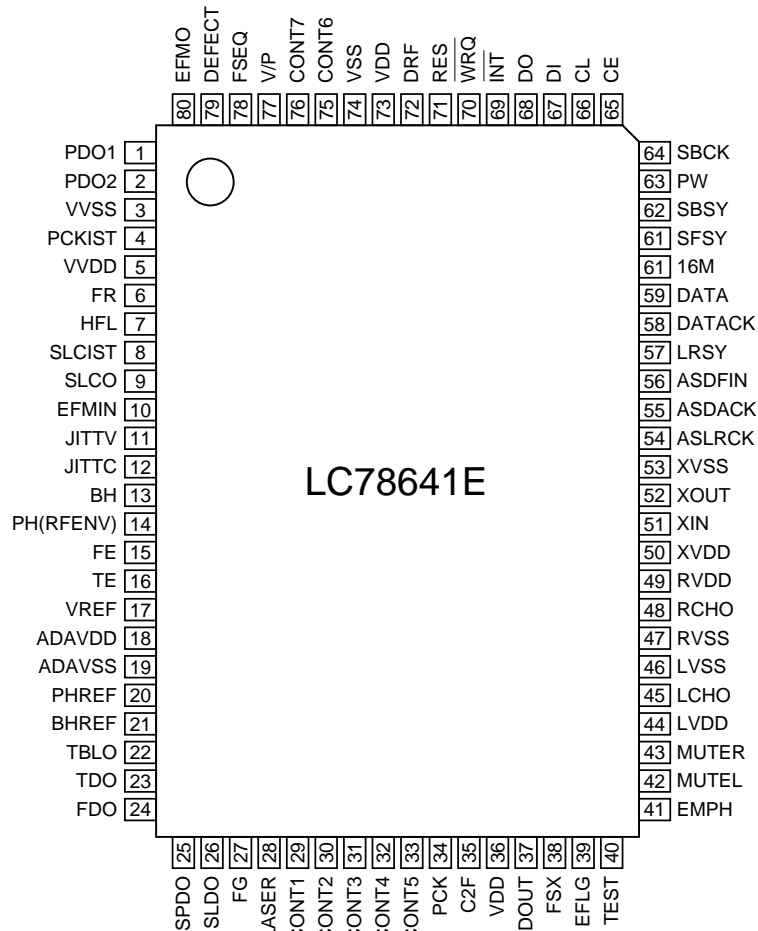


**FUNCTION TABLE OF IC**

**IC1 VHiLA9235M/-1: Servo Amp. (LA9235M)**



**IC2 VHiLC78641E-1: Servo/Signal Control (LC78641E)**



**Figure 41 BLOCK DIAGRAM OF IC**

# CD-BA3000

## IC2 VHiLC78641E-1: Servo/Signal Control (LC78641E) (1/2)

Pin No.	Terminal Name	Input/Output	Setting in Reset	Function		
1	PDO1	Output	–	For PULL	Phase-comparison output terminal for built-in VOC control.	
2	PDO2	Output	–		Phase-comparison output terminal for built-in VOC control. Rough servo : OFF, phase servo : ON.	
3	VVSS	–	–		Ground terminal for built-in VCO.	
4	PCKIST	AI	–		Resistor terminal for setting the PDO output current.	
5	VVDD	–	–		Power terminal for built-in VCO.	
6	FR	AI	–		Resistor terminal for setting the VCO frequency range.	
7	HFL	Input	–	Mirror detection signal input terminal.		
8	SLCIST	AI	–	For slice level control	Resistance connection terminal for current adjustment of SLCO output.	
9	SLCO	Output	–		Control output.	
10	EFMIN	Input	–		EFM signal input terminal.	
11*	JITTV	Output	Unfixed	Jitter detection/monitor terminal.		
12	JITTC	Output	–	Jitter detection/adjustment terminal.		
13	BH	Input	–	BH signal input terminal. A/D input.		
14	PH(RFENV)	Input	–	PH signal or RFENV signal input terminal. A/D input.		
15	FE	Input	–	FE signal input terminal. A/D input.		
16	TE	Input	–	TE signal input terminal. A/D input.		
17	VREF	Input	–	VREF signal input terminal. A/D input.		
18	ADAVDD	–	–	AD for servo, D/A power terminal.		
19	ADAVSS	–	–	AD for servo, D/A ground terminal.		
20*	PHREF	Output	(1/2VDD)	PH reference output terminal. D/A output.		
21*	BHREF	Output	(1/2VDD)	BH reference output terminal. D/A output.		
22	TBLO	Output	(1/2VDD)	Output terminal for tracking balance. D/A output.		
23	TDO	Output	(1/2VDD)	Output terminal for tracking control. D/A output.		
24	FDO	Output	(1/2VDD)	Output terminal for focus control. D/A output.		
25	SPDO	Output	(1/2VDD)	Output terminal for spindle control. D/A output.		
26	SLDO	Output	(1/2VDD)	Output terminal for sled control. D/A output.		
27*	FG	Input	–	FG signal input terminal. (When not used, connect to 0V)		
28	LASER	Output	L	LASER ON/OFF control terminal.		
29	CONT1	In/Output	Input mode	General purpose input/output terminal 1.	Controlled with serial data command from microcomputer. When not used, set it as the input terminal and open it by connecting to 0V, or set it as the output terminal and open it.	
30	CONT2	In/Output	Input mode			General purpose input/output terminal 2.
31	CONT3	In/Output	Input mode			General purpose input/output terminal 3.
32	CONT4	In/Output	Input mode			General purpose input/output terminal 4.
33	CONT5	In/Output	Input mode			General purpose input/output terminal 5.
34*	PCK	Output	H	Clock monitor terminal for EFM data replay. 4.3218MHz as phase clock.		
35*	C2F	Output	H	C2 flag output terminal.		
36	VDD	–	–	Power terminal of digital system.		
37	DOUT	Output	L	Output terminal of digital OUT. (EIAJ format)		
38*	FSX	Output	L	Output terminal of synchronous signal of 7.35kHz divided from quartz oscillation.		
39*	EFLG	Output	L	C1,C2 correct monitor terminal.		
40	TEST	Input	–	Input terminal for test. Surely connected to 0V.		
41*	EMPH	In/Output	Input mode	Emphasis terminal. After resetting, it is configured as an input terminal. It can be controlled from the outside. It is also becomes a emphasis monitor terminal under command control.		
42*	MUTEL	Output	H	Mute output terminal for L channel.		
43*	MUTER	Output	H	Mute output terminal for R channel.		

In this unit, the terminal with asterisk mark (\*) is (open) terminal which is not connected to the outside.

## IC2 VHiLC78641E-1: Servo/Signal Control (LC78641E) (2/2)

Pin No.	Terminal Name	Input/Output	Setting in Reset	Function	
44	LVDD	–	–	L channel	Power terminal for L channel.
45	LCHO	Output	1/2VDD	D/A converter	L channel output terminal.
46	LVSS	–	–		Ground terminal for L channel. Surely connected to 0V.
47	RVSS	–	–	R channel	Ground terminal for R channel. Surely connected to 0V.
48	RCHO	Output	1/2VDD	D/A converter	R channel output terminal.
49	RVDD	–	–		Power terminal for R channel.
50	XVDD	–	–	For quartz oscillation	Power terminal for quartz oscillation.
51	XIN	Input	Oscillation		Ground terminal of 16.9344MHz quartz oscillation.
52	XOUT	Output	Oscillation		
53	XVSS	–	–		Ground terminal for quartz oscillation. Surely connected to 0V.
54	ASLRCK	Input	–	For anti shock mode	L/R clock input terminal. (When not used,connect to 0V)
55	ASDACK	Input	–		Bit clock input terminal. (When not used,connect to 0V)
56	ASDFIN	Input	–		L/R channel data input terminal. (When not used,connect to 0V)
57*	LSRY	Output	L	For digital data output	L/R clock output terminal.
58*	DATACK	Output	L		Bit clock output terminal.
59*	DATA	Output	L		L/R channel data output terminal.
60*	16M	Output	Clock output	16.9344MHz output terminal.	
61*	SFSY	Output	L	Output terminal of synchronous signal of subcode frame. It drops when subcode stand by.	
62*	SBSY	Output	L	Output terminal of synchronous signal of subcode block.	
63*	PW	Output	L	Output terminal of subcodes P,A,R,S,T,U and W.	
64	SBCK	Input	–	Clock input terminal to read subcode. (When not used,connect to 0V)	
65	CE	Input	–	For microcomputer interface	Chip enable signal input terminal.
66	CL	Input	–		Data transmission clock input terminal.
67	DI	Input	–		Data input terminal.
68	DO	Output	L		Data output terminal.
69	INT	Output	H		Interruption signal output terminal.
70	WRQ	Output	H		Interruption signal output terminal.
71	RES	Input	–	Reset input terminal of LC78640. When turning on power, set it at "L".	
72	DRF	Output	L	Focus ON detection terminal.	
73	VDD5V	–	–	Power terminal for microcomputer interface.	
74	VSS	–	–	Ground terminal of digital system. Surely connected to 0V.	
75	CONT6	In/Output	Input mode	General purpose input/output terminal 6.	Controlled with serial data command from microcomputer. When not used, set it as the input terminal and open it by connecting to 0V, or set it as the output terminal and open it.
76	CONT7	In/Output	Input mode	General purpose input/output terminal 7.	
77*	V/ *P	Output	H	Monitor output terminal for automatic switch of rough servo/phase control. "H" for rough servo, and "L" for phase servo.	
78*	FSEQ	Output	L	Output terminal synchronous signal detection. "H" is output when synchronous signal detected by EFM signal matches synchronous signal internally generated.	
79*	DEFECT	In/Output	Input mode	Defect terminal. After resetting, it is configured as an input terminal. It can be controlled from the outside. It also becomes a defect monitor terminal under command control	
80*	EFMO	Output	Unfixed	EFM signal output terminal.	

In this unit, the terminal with asterisk mark (\*) is (open) terminal which is not connected to the outside.

Be sure to supply the same potential to each power terminal. (VVDD,ADAVDD,VDD,LVDD,RVDD,XVDD)

Terminal witch is controlled by the power terminal (VDD5V) for a microcomputer interface :

CE (65pin), CL (66pin), DI (67pin), DO (68pin), INT (69pin), WRQ (70pin), RES (71pin), DRF (72pin), CONT6 (75pin), CONT7 (76pin)

## CD-BA3000

### IC701 RH-iX0334AWZZ: System Microcomputer (IX0334AW) (1/2)

Pin No.	Port Name	Terminal Name	Input/Output	Function
1	VDD	VDD	—	(+) POWER SUPPLY
2	P37	-20dBATT	Output	-20dB ATTENUATOR
3*	P36	S-BUSY	Output	Not used
4*	P35	LCK1	Output	LED DRIVER LCK (BU2092-2)
5	P34	LCK0	Output	LED DRIVER LCK (BU2092-1)
6*	P33	DP REQ	Output	DOLBY PRO LOGIC REQ TERMINAL
7	P32	RES OUT	Output	CD DSP RESET&MPEG MICROCOMPUTER RESET
8	P31	DRF	Input	CD RF LEVEL DETECTION
9	P30	WRQ	Input	CD DSP WRITE REQUEST
10	RESET	RESET	Input	MICROCOMPUTER RESET
11	X2	X2	Output	MAIN CLOCK
12	X1	X1	Input	MAIN CLOCK
13	VPP/IC	VPP/IC	—	GND
14*	XT2	XT2	—	OPEN
15	P04	CD INT	Input	CD DSP INTERRUPT
16	VDD	VDD	—	(+) POWER SUPPLY
17	P27	CD CLK/MCLK	Output	CD DSP CLOCK/MPEG MICROCOMPUTER CLOCK
18	P26	CD DI/MDI	Output	CD DSP COMMAND/MPEG MICROCOMPUTER COMMAND
19	P25	CD DO/MDO	Input	CD DSP CODE Q OUT/MPEG MICROCOMPUTER DATA INPUT
20	P24	CD CE	Output	CD DSP CE OUTPUT
21	P23	CE	Output	CE OUTPUT
22	P22	CLK	Output	CLOCK OUTPUT
23	P21	DI	Output	DATA OUTPUT
24	P20	DO	Input	DATA INPUT
25	AVSS	AVSS	—	ANALOG GROUND
26*	ANI7	TUN SM/M-BUSY	Input	TUNER SIGNAL METER INPUT
27	ANI6	SPEANA3	Input	SPEANA DATA INPUT L, R 16 kHz
28	ANI5	SPEANA2	Input	SPEANA DATA INPUT L, R 63Hz
29	ANI4	SPEANA1	Input	SPEANA DATA INPUT R-CH 1kHz
30	ANI3	SPEANA0	Input	SPEANA DATA INPUT L-CH 1kHz
31-33	ANI2-ANI0	KEY2-KEY0	Input	KEY INPUT
34	AVDD	AVDD	—	ANALOG VDD
35	AVREF	AVREF	—	ANALOG REF VOLTAGE
36	INTP3	SYS STOP	Input	SYSTEM STOP INPUT
37	INTP2	JOG1	Input	KEY JOG INPUT 1
38	INTP1	JOG0	Input	KEY JOG INPUT 2
39	INTP0	REMOCON	Input	REMOCON INPUT
40	VSS	VSS	—	GROUND VOLTAGE
41	P74	SMUTE	Output	SYSTEM MUTE CONTROL
42	P73	T_SOL 2	Output	TAPE 2 SOLENOID CONTROL
43	P72	T_SOL 1	Output	TAPE 1 SOLENOID CONTROL
44	P71	T_MOTOR	Output	TAPE MOTOR CONTROL
45	P70	TIMER LED	Output	TIMER OED CONTROL
46	VDD	VDD	—	(+) POWER SUPPLY
47	P127	AC RLY_CONT	Output	AC RELAY CONTROL
48	P126	SP RLY	Output	SPEAKER OUTPUT RELAY CONTROL
49	P125	SP DET	Input	SPEAKER OUTPUT DETECTION
50	P124	T1 RUN	Input	TAPE 1 RUN PULSE TINPUT
51	P123	T2 RUN	Input	TAPE 2 RUN PULSE TINPUT
52	P122	CD CLAMP SW	Input	CD CHANGER CLAMP SWITCH
53	P121	T1 PLAY SW_A	Input	PLAY SWITCH FOR T1

In this unit, the terminal with asterisk mark (\*) is (open) terminal which is not connected to the outside.

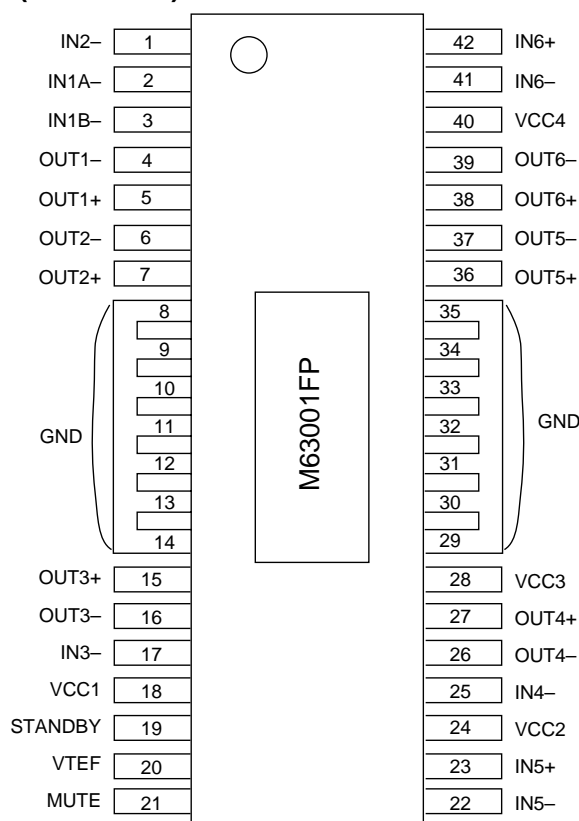
**IC701 RH-iX0334AWZZ: System Microcomputer (IX0334AW) (2/2)**

Pin No.	Port Name	Terminal Name	Input/Output	Function
54	P120	T2 PLAY SW_B	Input	PLAY SWITCH FOR T2
55	P119	FPA	Input	TAPE 2 A-SIDE FULL PROOF
56	P118	FPB	Input	TAPE 2 B-SIDE FULL PROOF
57*	P117	MIC IN	Input	MIC SWITCH
58*	P116	KARAOKE LATCH	Output	KARAOKE LATCH (When not used, connect to 0V.)
59	P115	DIST_OUT/SW OUT/SPAN A	Output	DESTINATION OUTPUT/SWITCH OUTPUT
60	P112	SPN B	Input	TUNER SPAN CHANGE
	FIP39	P25	Output	FL DISPLAY SEGMENT DRIVER
61	P111	MOV VOL CONT OPEN	Input	MOVING VOLUME CONTROL OPEN SWITCH
	FIP38	P24	Output	FL DISPLAY SEGMENT DRIVER
62	P110	MOV VOL CONT CLOSE	Input	MOVING VOLUME CONTROL CLOSE SWITCH
	FIP37	P23	Output	FL DISPLAY SEGMENT DRIVER
63-66	FIP36-FIP33	P22-P19	Output	FL DISPLAY SEGMENT DRIVER
67	P103	DIST3	Input	DESTINATION INPUT
	FIP32	P18	Output	FL DISPLAY SEGMENT DRIVER
68	P102	DIST2	Input	DESTINATION INPUT
	FIP31	P17	Output	FL DISPLAY SEGMENT DRIVER
69	P101	DIST1	Input	DESTINATION INPUT
	FIP30	P16	Output	FL DISPLAY SEGMENT DRIVER
70	P100	DIST0	Input	DESTINATION INPUT
	FIP29	P15	Output	FL DISPLAY SEGMENT DRIVER
71-78	FIP28-FIP21	P14-P7	Output	FL DISPLAY SEGMENT DRIVER
79	VLOAD	VLOAD	—	FL DRIVER (-) POWER SUPP. -30V
80-85	FIP20-FIP15	P6-P1	Output	FL DISPLAY SEGMENT DRIVER
86-100	FIP14-FIP0	G15-G1	Output	FL DISPLAY SEGMENT DRIVER

In this unit, the terminal with asterisk mark (\*) is (open) terminal which is not connected to the outside.

**IC3 VHiM63001FP-1: Focus/Tracking/Spin/Sled Driver (M63001FP)**

Pin No.	Terminal Name	Function
1	IN2-	CH2 inverted input.
2	IN1A-	CH1 inverted input.
3*	IN1B-	CH1 output offset control.
4	OUT1-	CH1 inverted output.
5	OUT1+	CH1 non-inverted output.
6	OUT2-	CH2 inverted output.
7	OUT2+	CH2 non-inverted output.
8-14	GND	GND
15	OUT3+	CH3 non-inverted output.
16	OUT3-	CH3 inverted output.
17	IN3-	CH3 inverted input.
18	VCC1	Power supply 1 (CH1, CH2, CH3)
19	STANDBY	STANDBY signal input.
20	VRFE	CH1-CH4 Reference voltage input.
21	MUTE	Mute signal input (CH6).
22	IN5-	CH5 inverted input.
23	IN5+	CH5 non-inverted input.
24	VCC2	Power supply 2 (CH4).
25	IN4-	CH4 inverted input.
26	OUT4-	CH4 inverted output.
27	OUT4+	CH4 non-inverted output.
28	VCC3	Power supply 3 (CH5).
29-35	GND	GND
36*	OUT5+	CH5 non-inverted output.
37*	OUT5-	CH5 inverted output.
38	OUT6+	CH6 non-inverted output.
39	OUT6-	CH6 inverted output.
40	VCC4	Power supply 4 (CH6).
41	IN6-	CH6 inverted input.
42	IN6+	CH6 non-inverted input.



**Figure 45 BLOCK DIAGRAM OF IC**

CD-BA3000

IC601 VHiLC75341/-1: Audio Processor (LC75341)

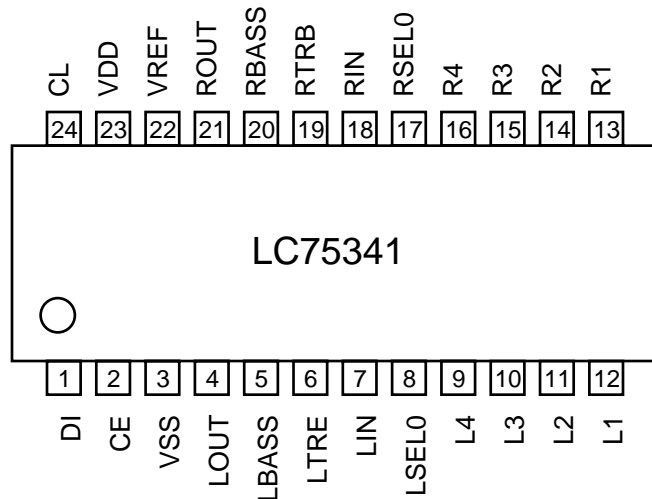
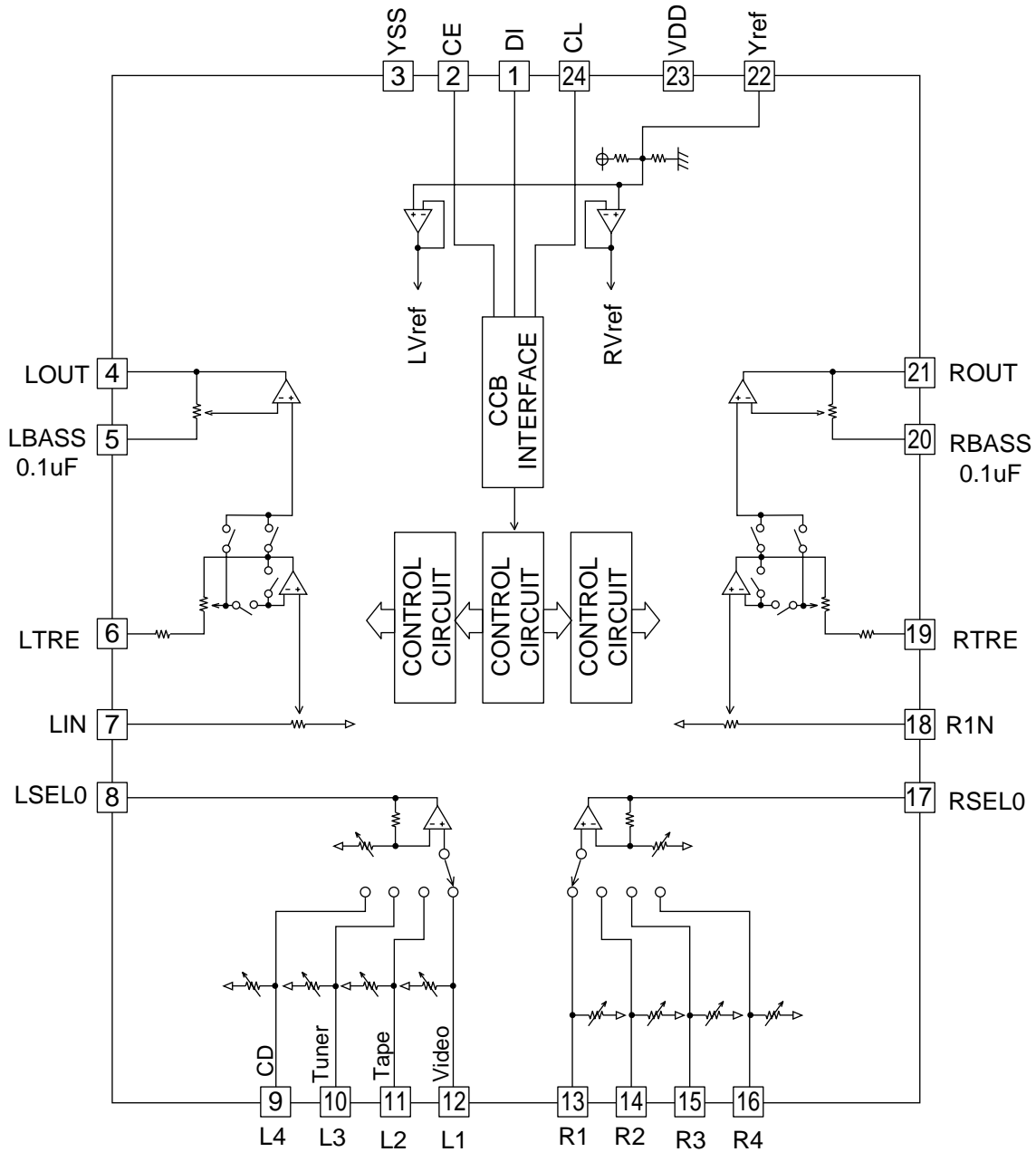
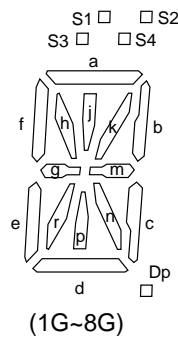
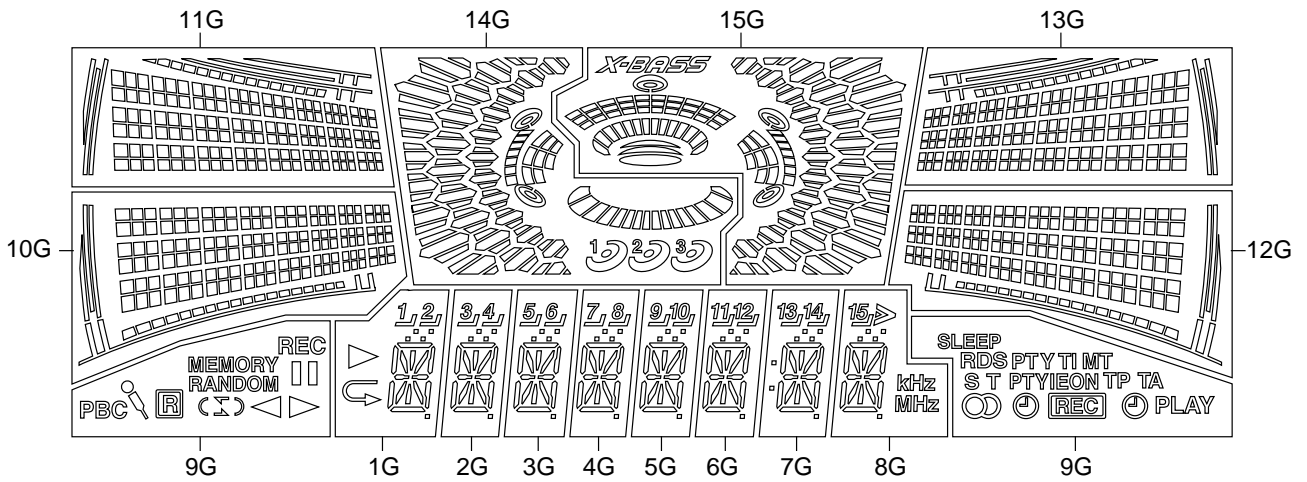


Figure 46 BLOCK DIAGRAM OF IC

FL701 VVKBJ744GNK-1: FL Display



PIN CONNECTION

PIN NO.	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
CONNECTION	15G	14G	13G	12G	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G	NP	NP	F1	F1	F1
PIN NO.	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21
CONNECTION	P12	P11	P10	P9	P8	P7	P6	P5	P4	P3	P2	P1	NX	NX	NX	NX	NX	NX	NX	NX
PIN NO.	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41		
CONNECTION	F2	F2	F2	NP	NP	P25	P24	P23	P22	P21	P20	P19	P18	P17	P16	P15	P14	P13		

Figure 47 FL DISPLAY

**CD-BA3000**

— MEMO —



# SHARP PARTS GUIDE

## MINI COMPONENT SYSTEM

# MODEL CD-BA3000

CD-BA3000 Mini Component System consisting of CD-BA3000 (main unit), CP-BA3000 (speaker system).

### “HOW TO ORDER REPLACEMENT PARTS”

To have your order filled promptly and correctly, please furnish the following information.

- 1. MODEL NUMBER
- 2. REF. No.
- 3. PART NO.
- 4. DESCRIPTION

★ MARK: SPARE PARTS-DELIVERY SECTION

#### For U.S.A. only

Contact your nearest SHARP Parts Distributor to order.

For location of SHARP Parts Distributor, Please call Toll-Free; 1-800-BE-SHARP

## Explanation of capacitors/resistors parts codes

### Capacitors

- VCC ..... Ceramic type
- VCK ..... Ceramic type
- VCT ..... Semiconductor type
- VC •• MF ..... Cylindrical type (without lead wire)
- VC •• MN ..... Cylindrical type (without lead wire)
- VC •• TV ..... Square type (without lead wire)
- VC •• TQ ..... Square type (without lead wire)
- VC •• CY ..... Square type (without lead wire)
- VC •• CZ ..... Square type (without lead wire)
- VC •••••••• J .. The 13th character represents capacity difference. ("J" ±5%, "K" ±10%, "M" ±20%, "N" ±30%, "C" ±0.25 pF, "D" ±0.5 pF, "Z" +80-20%.)

If there are no indications for the electrolytic capacitors, error is ±20%.

### Resistors

- VRD ..... Carbon-film type
- VRS ..... Carbon-film type
- VRN ..... Metal-film type
- VR •• MF ..... Cylindrical type (without lead wire)
- VR •• MN ..... Cylindrical type (without lead wire)
- VR •• TV ..... Square type (without lead wire)
- VR •• TQ ..... Square type (without lead wire)
- VR •• CY ..... Square type (without lead wire)
- VR •• CZ ..... Square type (without lead wire)
- VR •••••••• J .. The 13th character represents error. ("J" ±5%, "F" ±1%, "D" ±0.5%.)

If there are no indications for other parts, the resistors are ±5% carbon-film type.

### NOTE:

Parts marked with “△” are important for maintaining the safety of the set. Be sure to replace parts with specified ones for maintaining the safety and performance of the set.

# CD-BA3000

NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
<b>CD-BA3000</b>			
<b>INTEGRATED CIRCUITS</b>			
IC1	VHILA9235M/-1	J AQ	Servo Amp.,LA9235M
IC2	VHILC78641E-1	J AV	Servo/Signal Control,LC78641E
IC3	VHIM63001FP-1	J AX	Focus/Tracking/Spin/Sled Driver, M63001FP
IC99	VHPTOTX178A-1	J AP	Optical Fiber Data Link, TOTX178A
IC101	VHIAN7345K/-1	J AM	Rec./P.B. Amp.,AN7345K
IC301	VHITA7358AP-1	J AG	FM Front End,TA7358AP
IC302	VHILC72131/-1	J AP	PLL (Tuner),LC72131
IC303	VHILA1832S/-1	J AN	FM IF Det./FM Mpx./AM IF, LA1832S
IC561-563	VHIKIA4558P-1	J AC	Ope Amp.,KIA4558P
IC601	VHILC75341/-1	J AM	Audio Processor,LC75341
IC701	RH-IX0334AWZZ	J AX	System Microcomputer, IX0334AW
IC702	VHIBU2092F/-1	J AM	Input/Output Expander,BU2092F
IC704	VHIKIA7042AP1	J AC	Reset,KIA7042AP
IC860	VHIKIA4558P-1	J AC	Ope Amp.,KIA4558P
IC901	VHISTK4113E-1	J BL	Power Amp.,STK4113E

NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
<b>TRANSISTORS</b>			
Q1	VSKTC3203Y/-1	J AC	Silicon,NPN,KTC3203 Y
Q2	VSKRC102M//1	J AC	Digital,NPN,KRC102 M
Q3	VSKTA1266GR-1	J AB	Silicon,PNP,KTA1266 GR
Q103-106	VS2SC1845F/-1	J AC	Silicon,NPN,2SC1845 F
Q107,108	VSKTC3199GR-1	J AB	Silicon,NPN,KTC3199 GR
Q109	VSKTA1266GR-1	J AB	Silicon,PNP,KTA1266 GR
Q110,111	VSKRC104M//1	J AC	Digital,NPN,KRC104 M
Q121,122	VSKTC3199GR-1	J AB	Silicon,NPN,KTC3199 GR
Q124	VS2SA1015GR-1	J AB	Silicon,PNP,2SA1015 GR
Q126	VSKRC104M//1	J AC	Digital,NPN,KRC104 M
Q128	VSKTC3203Y/-1	J AC	Silicon,NPN,KTC3203 Y
Q302	VSKTC3194Y/-1	J AD	Silicon,NPN,KTC3194 Y
Q360	VSKTA1266GR-1	J AB	Silicon,PNP,KTA1266 GR
Q603-606	VSKTC3199GR-1	J AB	Silicon,NPN,KTC3199 GR
Q701-703	VSKTC3199GR-1	J AB	Silicon,NPN,KTC3199 GR
Q704,705	VSKTA1271Y/-1	J AC	Silicon,PNP,KTA1271 Y
Q706,707	VSKTC3199GR-1	J AB	Silicon,NPN,KTC3199 GR
Q708	VSKTA1273Y/-1	J AE	Silicon,PNP,KTA1273 Y
Q709	VSKRC102M//1	J AC	Digital,NPN,KRC102 M
Q710-712	VSKTC3199GR-1	J AB	Silicon,NPN,KTC3199 GR
Q713-716	VSKTA1271Y/-1	J AC	Silicon,PNP,KTA1271 Y
Q801	VHIAN78L05/-1	J AE	Constant Voltage Regulator, AN78L05
Q802	VSKTC3199GR-1	J AB	Silicon,NPN,KTC3199 GR
Q803	VSKTA1274Y/-1	J AE	Silicon,PNP,KTA1274 Y
Q850	VSKTC2026//1	J AF	Silicon,NPN,KTC2026
Q851	VHIKIA7810AP1	J AF	Voltage Regulator,KIA7810 AP
Q852	VHIKIA7805P-1	J AF	Voltage Regulator,KIA7805 P
Q862,863	VSKTC3199GR-1	J AB	Silicon,NPN,KTC3199 GR
Q864	VSKRC102M//1	J AC	Digital,NPN,KRC102 M
Q865	VSKTC3199GR-1	J AB	Silicon,NPN,KTC3199 GR
Q901-904	VSKTC3199GR-1	J AB	Silicon,NPN,KTC3199 GR
Q905	VSKRC107M//1	J AC	Digital,NPN,KRC107 M
Q907	VSKTC3203Y/-1	J AC	Silicon,NPN,KTC3203 Y
Q910,911	VSKRC107M//1	J AC	Digital,NPN,KRC107 M

NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
<b>DIODES</b>			
D21,22	VHD1SS133//1	J AA	Silicon,1SS133
D101,102	VHD1SS133//1	J AA	Silicon,1SS133
D301-305	VHD1SS133//1	J AA	Silicon,1SS133
D561-566	VHD1SS133//1	J AA	Silicon,1SS133
D601,602	VHD1SS133//1	J AA	Silicon,1SS133
D705	VHD1SS133//1	J AA	Silicon,1SS133
D707	VHD1SS133//1	J AA	Silicon,1SS133
D709	VHD1SS133//1	J AA	Silicon,1SS133
D712-718	VHD1SS133//1	J AA	Silicon,1SS133
D720-723	VHD1SS133//1	J AA	Silicon,1SS133
D801	VHD1SS133//1	J AA	Silicon,1SS133
D802-805	VHD1N4004S/-1	J AB	Silicon,1N4004S
D806-808	VHD1SS133//1	J AA	Silicon,1SS133
D809	VHDT56B04GM-1	J AP	Silicon,TS6B04GM
D810	VHDD10XB60F-1	J AL	Silicon,D10XB60F
D811-818	VHD1N4004S/-1	J AB	Silicon,1N4004S
D860-862	VHD1SS133//1	J AA	Silicon,1SS133

NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
D901,902	VHD1N4004S/-1	J AB	Silicon,1N4004S
D903,904	VHD1SS133//1	J AA	Silicon,1SS133
D905,906	VHD1N5402M/-1	J AE	Silicon,1N5402M
D907-913	VHD1SS133//1	J AA	Silicon,1SS133
LED709-712	VHPSLI325YC-1	J AB	LED, Yellow,SLI325YC
LED722	VHP4204SRT7-1	J AD	LED,Red,4204SRT7
ZD61	VHEDZ3R9BSB-1	J AC	Zener,3.9V,DZ3.9BSB
ZD351	VHEMTZJ5R1B-1	J AC	Zener,5.1V,MTZJ5.1B
ZD561	VHEMTZJ6R2C-1	J AC	Zener,6.2V,MTZJ6.2C
ZD801	VHEMTZJ360C-1	J AB	Zener,36V,MTZJ36C
ZD802	VHEMTZJ6R2A-1	J AA	Zener,6.2V,MTZJ6.2A
ZD901,902	VHEMTZJ8R2C-1	J AB	Zener,8.2V,MTZJ8.2C
ZD951	VHEMTZJ130B-1	J AC	Zener,13V,MTZJ13B

<b>FILTERS</b>			
BF301	RFILR0008AWZZ	J AE	Band Pass Filter
CF303	RFILF0124AFZZ	J AD	FM IF,10.7 MHz
CF351	RFILF0003AWZZ	J AK	FM IF
CF352	RFILA0009AWZZ	J AE	AM IF

<b>TRANSFORMERS</b>			
T301	RCILB0065AWZZ	J AC	OSC,FM
T302	RCIL10017AWZZ	J AB	FM IF
T303	RCILA0052AWZZ	J AE	AM Antenna
T306	RCILB0058AWZZ	J AC	OSC,AM
T351	RCIL10019AWZZ	J AD	AM IF
△ T801	RTRNP0309AWZZ	J BH	Power
△ T802	RTRNP0312AWZZ	J AM	Power

<b>COILS</b>			
L61	VP-XHR82K0000	J AC	0.82 μH
L62	VP-DH2R2K0000	J AB	2.2 mH,Peaking
L99	VP-DH2R2K0000	J AB	2.2 mH,Peaking
L103	VP-DH101K0000	J AB	100 μH,Choke
L104	VP-MK331K0000	J AB	330 μH,Choke
L312	RCILR0056AWZZ	J AB	FM RF
L351,352	VP-DH101K0000	J AB	100 μH,Choke
L701	VP-DH101K0000	J AB	100 μH,Choke
L901,902	RCILZ0137AFZZ	J AA	0.29 μH

<b>VARIABLE CAPACITORS</b>			
VD301	VHCSVC348S/-1	J AK	Variable Capacitance,SVC348S
VD302,303	VHCSVC211C/-1	J AG	Variable Capacitance,SVC211C

<b>VIBRATORS</b>			
X351	92LCRSTL1425A	J AF	Crystal,456 kHz
X352	RCRSP0015AWZZ	J	Crystal,4.5 MHz
XL1	RCRSP0005AWZZ	J AF	Crystal,16.934 MHz
XL701	RCRSP0003AWZZ	J AH	Crystal,4.1943 MHz

<b>CAPACITORS</b>			
C6	VCEAZA0JW107M	J AC	100 μF,6.3V,Electrolytic
C7	VCEAZA1CW106M	J AC	10 μF,16V,Electrolytic
C8	VCKYTV1EF223Z	J AA	0.022 μF,25V
C11	RC-EZY476AF0J	J AB	47 μF,6.3V,Electrolytic
C12	VCKYTV1EF223Z	J AA	0.022 μF,25V
C13	VCKYTV1HB103K	J AA	0.01 μF,50V
C14	VCIFYDA1HA334J	J AC	0.33 μF,50V,Thin Film
C17	VCKYTV1HB472K	J AA	0.0047 μF,50V
C18	VCCCTV1HH3R0C	J AA	3 pF (CH),50V
C20,21	VCTYPA1CX104K	J AB	0.1 μF,16V
C22	VCKYTV1HB101K	J AA	100 pF,50V
C23	VCTYPA1CX473K	J AA	0.047 μF,16V
C24	VCEAZA1HW225M	J AB	2.2 μF,50V,Electrolytic
C25	VCKYTV1EF223Z	J AA	0.022 μF,25V
C26	VCTYPA1CX473K	J AA	0.047 μF,16V
C27	VCKYBT1HF104Z	J	0.1 μF,50V
C28	VCEAZA1AW476M	J AB	47 μF,10V,Electrolytic
C29,30	VCKYTV1EF223Z	J AA	0.022 μF,25V
C31	VCEAZA0JW107M	J AC	100 μF,6.3V,Electrolytic
C34	VCKZPA1HF223Z	J AA	0.022 μF,50V
C35	VCCSPA1HL8R0J	J AB	8 pF,50V
C36	VCCSPA1HL100J	J AA	10 pF,50V
C38,39	VCEAZA1CW106M	J AC	10 μF,16V,Electrolytic
C40	VCKYTV1HB152K	J AA	0.0015 μF,50V
C41	VCEAZA0JW107M	J AC	100 μF,6.3V,Electrolytic

NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION	NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
C42	VCCCTV1HH680J	J AA	68 pF (CH),50V	C364	VCEAZA1CW106M	J AC	10 μF,16V,Electrolytic
C43	VCKYTV1HB152K	J AA	0.0015 μF,50V	C365	VCTYPACX223K	J AA	0.022 μF,16V
C44	VCKYTV1EF223Z	J AA	0.022 μF,25V	C366	VCKYMN1HB102K	J AA	0.001 μF,50V
C45	VCEAZA0JW107M	J AC	100 μF,6.3V,Electrolytic	C367,368	VCEAZA1HW105M	J AB	1 μF,50V,Electrolytic
C46	VCKYTV1EF223Z	J AA	0.022 μF,25V	C369	VCCUMN1HJ270J	J AA	27 pF (UJ),50V
C47	VCEAZA0JW107M	J AC	100 μF,6.3V,Electrolytic	C370-372	VCEAZA1HW105M	J AB	1 μF,50V,Electrolytic
C49,50	VCEAZA0JW107M	J AC	100 μF,6.3V,Electrolytic	C373,374	VCTYPACX153K	J AA	0.015 μF,16V
C51	VCEAZA1AW476M	J AB	47 μF,10V,Electrolytic	C380	VCEAZA1CW106M	J AC	10 μF,16V,Electrolytic
C52	VCTYPACX103K	J AA	0.01 μF,16V	C381	VCCCMN1HH120J	J AA	12 pF (CH),50V
C53	VCKYTV1HB102K	J AA	0.001 μF,50V	C382	VCCCMN1HH150J	J AA	15 pF (CH),50V
C54	VCEAZA1AW476M	J AB	47 μF,10V,Electrolytic	C385	VCTYMN1CY103N	J AA	0.01 μF,16V
C55	VCKYTV1HB103K	J AA	0.01 μF,50V	C386	VCKYMN1HB331K	J AA	330 pF,50V
C56	VCEAZA0JW337M	J AC	330 μF,6.3V,Electrolytic	C387	VCTYMN1EF223Z	J AA	0.022 μF,25V
C64	RC-EZ476AF0J	J AB	47 μF,6.3V,Electrolytic	C388	VCKYMN1HB102K	J AA	0.001 μF,50V
C71	VCKYTV1HB101K	J AA	100 pF,50V	C391	VCEAZA1CW476M	J AB	47 μF,16V,Electrolytic
C72	VCKYTV1HB103K	J AA	0.01 μF,50V	C392	VCKYMN1HB102K	J AA	0.001 μF,50V
C73-78	VCKYTV1HB101K	J AA	100 pF,50V	C393	VCEAZA1HW105M	J AB	1 μF,50V,Electrolytic
C80-83	VCKYTV1EF223Z	J AA	0.022 μF,25V	C394	VCEAZA1CW476M	J AB	47 μF,16V,Electrolytic
C84	VCKYBT1HB102K	J AA	0.001 μF,50V	C395	VCTYMN1EF223Z	J AA	0.022 μF,25V
C98	VCKZPA1HF223Z	J AA	0.022 μF,50V	C396	VCEAZA1AW107M	J AB	100 μF,10V,Electrolytic
C99	VCEAZA1AW107M	J AB	100 μF,10V,Electrolytic	C397	VCTYMN1EF223Z	J AA	0.022 μF,25V
C101,102	VCKYMN1HB561K	J AA	560 pF,50V	C398	VCEAZA1AW107M	J AB	100 μF,10V,Electrolytic
C105	VCKYBT1HB181K	J AA	180 pF,50V	C399	VCTYMN1EF223Z	J AA	0.022 μF,25V
C106	VCKYMN1HB181K	J AA	180 pF,50V	C561,562	VCKYMN1HB271K	J AA	270 pF,50V
C107,108	VCKYMN1HB561K	J AA	560 pF,50V	C563	VCTYMN1CX682K	J AA	0.0068 μF,16V
C109	VCKZPA1HF473Z	J AA	0.047 μF,50V	C564,565	VCEAZA1HW225M	J AB	2.2 μF,50V,Electrolytic
C111-114	VCKYMN1HB331K	J AA	330 pF,50V	C566	VCTYMN1CX682K	J AA	0.0068 μF,16V
C115,116	VCEAZA1HW107M	J AB	100 μF,25V,Electrolytic	C567,568	VCTYMN1EF223Z	J AA	0.022 μF,25V
C117,118	VCTYPACX333K	J AA	0.033 μF,25V	C569	VCKZPA1HF223Z	J AA	0.022 μF,50V
C119,120	VCKYMN1HB561K	J AA	560 pF,50V	C570,571	VCTYMN1EF223Z	J AA	0.022 μF,25V
C121,122	VCEAZA1HW105M	J AB	1 μF,50V,Electrolytic	C572	VCEAZA1EW476M	J AB	47 μF,25V,Electrolytic
C123,124	VCTYPACX222K	J AA	0.0022 μF,50V	C573	VCTYMN1EF223Z	J AA	0.022 μF,25V
C127	VCTYMN1EF223Z	J AA	0.022 μF,25V	C574-577	VCTYMN1CX272K	J AA	0.0027 μF,16V
C128	VCEAZA1HW335M	J AB	3.3 μF,50V,Electrolytic	C578,579	VCEAZA1HW225M	J AB	2.2 μF,50V,Electrolytic
C131,132	VCKYMN1HB271K	J AA	270 pF,50V	C602	VCEAZA1HW226M	J AB	22 μF,50V,Electrolytic
C133,134	VCEAZA1EW226M	J AB	22 μF,25V,Electrolytic	C603	VCKZPA1HF223Z	J AA	0.022 μF,50V
C135,136	VCTYPACX223K	J AA	0.022 μF,16V	C604	VCTYMN1EF223Z	J AA	0.022 μF,25V
C139,140	VCTYMN1CX332K	J AA	0.0033 μF,16V	C606	VCEAZA1CW107M	J AC	100 μF,16V,Electrolytic
C141,142	VCEAZA1EW476M	J AB	47 μF,25V,Electrolytic	C607-610	VCFYHA1HA104J	J AB	0.1 μF,50V,Thin Film
C145	VCEAZA1EW226M	J AB	22 μF,25V,Electrolytic	C611,612	VCTYMN1CX272K	J AA	0.0027 μF,16V
C146	VCEAZA1AW107M	J AB	100 μF,10V,Electrolytic	C613,614	VCEAZA1HW106M	J AB	10 μF,50V,Electrolytic
C150	VCQPKA2AA822J	J AA	0.0082 μF,100V,Polypropylene	C615,616	VCKYMN1HB102K	J AA	0.001 μF,50V
C151	VCQYKA1HM393K	J AB	0.039 μF,50V,Mylar	C617,618	VCEAZA1HW105M	J AB	1 μF,50V,Electrolytic
C152	VCEAZA1EW476M	J AB	47 μF,25V,Electrolytic	C619,620	VCEAZA1HW105M	J AB	1 μF,50V,Electrolytic
C153	VCEAZA1CW107M	J AC	100 μF,16V,Electrolytic	C621,622	VCEAZA1HW475M	J AB	4.7 μF,50V,Electrolytic
C154	VCQYKA1HM473K	J AB	0.047 μF,50V,Mylar	C623-630	VCEAZA1HW105M	J AB	1 μF,50V,Electrolytic
C301	VCKYMN1HB102K	J AA	0.001 μF,50V	C631,632	VCKYMN1HB391K	J AA	390 pF,50V
C303	VCCCMN1HH100J	J AA	10 pF (CH),50V	C635,636	VCKYMN1HB102K	J AA	0.001 μF,50V
C304	VCTYMN1CY103N	J AA	0.01 μF,16V	C641,642	VCQYKA1HM332K	J AA	0.0033 μF,50V,Mylar
C305	VCCUMN1HJ4R7D	J AA	4.7 pF (UJ),50V	C643,644	VCKYPA1HB222K	J AA	0.0022 μF,50V
C306	VCTYMN1EF223Z	J AA	0.022 μF,25V	C709	VCEAZA1HW476M	J AB	47 μF,50V,Electrolytic
C307	VCEAZA1CW106M	J AC	10 μF,16V,Electrolytic	C715	VCEAZA1HW476M	J AB	47 μF,50V,Electrolytic
C308	VCCUMN1HJ4R7D	J AA	4.7 pF (UJ),50V	C716,717	VCEAZA1HW225M	J AB	2.2 μF,50V,Electrolytic
C309	VCKYMN1HB102K	J AA	0.001 μF,50V	C719	VCEAZA1EW476M	J AB	47 μF,25V,Electrolytic
C310	VCCCMN1HH150J	J AA	15 pF (CH),50V	C720,721	VCKYBT1HB102K	J AA	0.001 μF,50V
C311	VCCSMN1HL180J	J AA	18 pF,50V	C722	VCEAZA1HW476M	J AB	47 μF,50V,Electrolytic
C312	VCTYMN1EF223Z	J AA	0.022 μF,25V	C723	VCCSMN1HL150J	J AA	15 pF,50V
C313	VCCCMN1HH220J	J AA	22 pF (CH),50V	C724	VCCSMN1HL180J	J AA	18 pF,50V
C314,315	VCTYMN1CX472K	J AA	0.0047 μF,16V	C725	VCTYBT1EF223Z	J AA	0.022 μF,25V
C316	VCTYMN1EF223Z	J AA	0.022 μF,25V	C726	VCEAZA0JW477M	J AC	470 μF,6.3V,Electrolytic
C317	VCKYMN1HB102K	J AA	0.001 μF,50V	C727	VCEAZA1HW104M	J AB	0.1 μF,50V,Electrolytic
C318	VCKYMN1HB101K	J AA	100 pF,50V	C728	VCTYPACX103K	J AA	0.01 μF,16V
C319	VCKYBT1HB102K	J AA	0.001 μF,50V	C729	VCEAZA1HW335M	J AB	3.3 μF,50V,Electrolytic
C323	VCTYMN1EF223Z	J AA	0.022 μF,25V	C730	VCTYMN1EF223Z	J AA	0.022 μF,25V
C324	VCCUMN1HJ3R9K	J AA	3.9 pF (UJ),50V	C731	VCEAZA1HW106M	J AB	10 μF,50V,Electrolytic
C330	VCCSMN1HL150J	J AA	15 pF,50V	C732	VCTYMN1EF223Z	J AA	0.022 μF,25V
C331	VCKZPA1HF473Z	J AA	0.047 μF,50V	C733	VCEAZA1EW476M	J AB	47 μF,25V,Electrolytic
C332	VCTYMN1EF223Z	J AA	0.022 μF,25V	C736	VCEAZA1CW476M	J AB	47 μF,16V,Electrolytic
C334	VCCUMN1HJ270J	J AA	27 pF (UJ),50V	C737	VCTYMN1EF223Z	J AA	0.022 μF,25V
C335	VCKYMN1HB561K	J AA	560 pF,50V	C801	RC-KZ002LAWZZ	J AE	0.0047 μF,250V,Ceramic
C338	VCKYMN1HB102K	J AA	0.001 μF,50V	C802	VCQYKA1HM473J	J AB	0.047 μF,50V,Mylar
C342	VCTYMN1EF223Z	J AA	0.022 μF,25V	C803	VCEAZV1VW477M	J AD	470 μF,35V,Electrolytic
C350,351	VCTYMN1EF223Z	J AA	0.022 μF,25V	C804	VCEAZA1CW106M	J AC	10 μF,16V,Electrolytic
C352	VCEAZA1CW106M	J AC	10 μF,16V,Electrolytic	C805	VCEAZV0JW228M	J AC	2200 μF,6.3V,Electrolytic
C353,354	VCTYMN1EF223Z	J AA	0.022 μF,25V	C809,810	VCFYDA1HA224J	J AB	0.22 μF,50V,Thin Film
C355	VCCCMN1HH220J	J AA	22 pF (CH),50V	C811,812	VCQYKU2AM224K	J AB	0.22 μF,100V,Mylar
C356	VCKYMN1HB102K	J AA	0.001 μF,50V	C813,814	VCFYDA1HA224J	J AB	0.22 μF,50V,Thin Film
C357	VCEAZA1HW225M	J AB	2.2 μF,50V,Electrolytic	C815,816	VCEAZA1HW107M	J AC	100 μF,50V,Electrolytic
C358	VCEAZA1HW105M	J AB	1 μF,50V,Electrolytic	C817	VCEAZV1JW227M	J AC	220 μF,63V,Electrolytic
C361	VCTYMN1EF223Z	J AA	0.022 μF,25V	C818,819	VCEAZA1HW476M	J AB	47 μF,50V,Electrolytic
C362	VCEAZA1HW335M	J AB	3.3 μF,50V,Electrolytic	C820	VCEAZA1VW107M	J AC	100 μF,35V,Electrolytic
C363	VCTYMN1EF223Z	J AA	0.022 μF,25V	C821	VCEAZV1JW107M	J	100 μF,63V,Electrolytic



NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION	NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
R581	VRD-MN2BD683J	J AA	68 kohms,1/8W	R853	VRD-ST2CD223J	J AA	22 kohms,1/6W
R582	VRD-MN2BD123J	J AA	12 kohms,1/8W	R854	VRD-ST2CD103J	J AA	10 kohm,1/6W
R583	VRD-MN2BD683J	J AA	68 kohms,1/8W	R855	VRD-RT2HD3R3J	J AA	3.3 ohms,1/2W
R584	VRD-MN2BD123J	J AA	12 kohms,1/8W	R860	VRD-MN2BD223J	J AA	22 kohms,1/8W
R585,586	VRD-MN2BD224J	J AA	220 kohms,1/8W	R861	VRD-MN2BD683J	J AA	68 kohms,1/8W
R587,588	VRD-MN2BD394J	J AA	390 kohms,1/8W	R862,863	VRD-MN2BD333J	J AA	33 kohms,1/8W
R589,590	VRD-MN2BD104J	J AA	100 kohm,1/8W	R864	VRD-MN2BD154J	J AA	150 kohms,1/8W
R605,606	VRD-MN2BD392J	J AA	3.9 kohms,1/8W	R868,869	VRD-MN2BD562J	J AA	5.6 kohms,1/8W
R607,608	VRD-MN2BD103J	J AA	10 kohm,1/8W	R870	VRD-ST2CD102J	J AA	1 kohm,1/6W
R609,610	VRD-ST2CD331J	J AA	330 ohms,1/6W	R871	VRD-ST2EE103J	J AA	10 kohm,1/4W
R611,612	VRD-MN2BD392J	J AA	3.9 kohms,1/8W	R872,873	VRD-MN2BD102J	J AA	1 kohm,1/8W
R613,614	VRD-MN2BD331J	J AA	330 ohms,1/8W	R874	VRD-ST2CD104J	J AA	100 kohm,1/6W
R615,616	VRD-MN2BD222J	J AA	2.2 kohms,1/8W	R875	VRD-MN2BD104J	J AA	100 kohm,1/8W
R617,618	VRD-MN2BD821J	J AA	820 ohms,1/8W	R878,879	VRD-MN2BD223J	J AA	22 kohms,1/8W
R619	VRD-MN2BD223J	J AA	22 kohms,1/8W	R880	VRD-ST2CD104J	J AA	100 kohm,1/6W
R620	VRD-ST2CD223J	J AA	22 kohms,1/6W	R901,902	VRD-ST2CD102J	J AA	1 kohm,1/6W
R621,622	VRD-MN2BD222J	J AA	2.2 kohms,1/8W	R903,904	VRD-ST2CD563J	J AA	56 kohms,1/6W
R631,632	VRD-ST2CD472J	J AA	4.7 kohms,1/6W	R905,906	VRD-ST2CD102J	J AA	1 kohm,1/6W
R633,634	VRD-MN2BD393J	J AA	39 kohms,1/8W	R907,908	VRD-ST2CD391J	J AA	390 ohms,1/6W
R637	VRD-MN2BD474J	J AA	470 kohms,1/8W	R909,910	VRD-ST2CD563J	J AA	56 kohms,1/6W
R638	VRD-ST2CD474J	J AA	470 kohms,1/6W	R911	VRD-ST2CD333J	J AA	33 kohms,1/6W
R700	VRD-ST2CD103J	J AA	10 kohm,1/6W	△ R912,913	VRG-ST2EC101J	J AB	100 ohm,1/4W,Fusible
R701	VRD-ST2CD104J	J AA	100 kohm,1/6W	R915,916	VRD-ST2CD392J	J AA	3.9 kohms,1/6W
R702	VRD-ST2CD102J	J AA	1 kohm,1/6W	R917,918	VRN-VV3LAR10J	J	0.1 ohm,3W
R704	VRD-ST2CD104J	J AA	100 kohm,1/6W	R919,920	VRD-ST2CD152J	J AA	1.5 kohms,1/6W
R705	VRD-ST2CD102J	J AA	1 kohm,1/6W	R921,922	VRD-ST2CD472J	J AA	4.7 kohms,1/6W
R706~709	VRD-MN2BD103J	J AA	10 kohm,1/8W	R923	VRD-ST2CD563J	J AA	56 kohms,1/6W
R710	VRD-MN2BD102J	J AA	1 kohm,1/8W	R925~928	VRD-RT2HD100J	J AA	10 ohm,1/2W
R712	VRD-MN2BD103J	J AA	10 kohm,1/8W	R929,930	VRD-ST2CD563J	J AA	56 kohms,1/6W
R713~715	VRD-MN2BD104J	J AA	100 kohm,1/8W	R931,932	VRD-RT2HD4R7J	J AA	4.7 ohms,1/2W
R716	VRD-ST2CD104J	J AA	100 kohm,1/6W	R933,934	VRD-ST2CD222J	J AA	2.2 kohms,1/6W
R717	VRD-MN2BD102J	J AA	1 kohm,1/8W	R935	VRD-RT2HD4R7J	J AA	4.7 ohms,1/2W
R719	VRD-ST2CD102J	J AA	1 kohm,1/6W	R936	VRD-ST2EE221J	J AA	220 ohms,1/4W
R724	VRD-MN2BD330J	J AA	33 ohms,1/8W	R937	VRD-ST2CD153J	J AA	15 kohms,1/6W
R725,726	VRD-ST2CD103J	J AA	10 kohm,1/6W	R938	VRD-ST2CD683J	J AA	68 kohms,1/6W
R728	VRD-ST2CD392J	J AA	3.9 kohms,1/6W	R939	VRD-ST2CD102J	J AA	1 kohm,1/6W
R732,733	VRD-MN2BD683J	J AA	68 kohms,1/8W	R941,942	VRS-VV3DA561J	J AC	560 ohms,2W
R734	VRD-MN2BD102J	J AA	1 kohm,1/8W	R943	VRS-VV3DA681J	J AC	680 ohms,2W
R735	VRD-MN2BD474J	J AA	470 kohms,1/8W	R949	VRD-ST2CD474J	J AA	470 kohms,1/6W
R736,737	VRD-MN2BD103J	J AA	10 kohm,1/8W	R950	VRD-ST2CD222J	J AA	2.2 kohms,1/6W
R738	VRD-MN2BD102J	J AA	1 kohm,1/8W	R959	VRD-ST2CD822J	J AA	8.2 kohms,1/6W
R739	VRD-MN2BD474J	J AA	470 kohms,1/8W	R960	VRD-ST2CD103J	J AA	10 kohm,1/6W
R740~743	VRD-MN2BD102J	J AA	1 kohm,1/8W	R961,962	VRD-ST2CD473J	J AA	47 kohms,1/6W
R744	VRD-ST2CD102J	J AA	1 kohm,1/6W	RD1	VRD-MN2BD681J	J AA	680 ohms,1/8W
R746	VRD-ST2CD103J	J AA	10 kohm,1/6W	RD2	VRD-MN2BD821J	J AA	820 ohms,1/8W
R747	VRD-ST2CD102J	J AA	1 kohm,1/6W	RD3	VRD-ST2CD102J	J AA	1 kohm,1/6W
R748	VRD-MN2BD102J	J AA	1 kohm,1/8W	RD4	VRD-MN2BD152J	J AA	1.5 kohms,1/8W
R749	VRD-MN2BD103J	J AA	10 kohm,1/8W	RD5	VRD-MN2BD222J	J AA	2.2 kohms,1/8W
R750	VRD-MN2BD102J	J AA	1 kohm,1/8W	RD6	VRD-MN2BD272J	J AA	2.7 kohms,1/8W
R751,752	VRD-MN2BD103J	J AA	10 kohm,1/8W	RD7	VRD-MN2BD392J	J AA	3.9 kohms,1/8W
R753	VRD-ST2CD182J	J AA	1.8 kohms,1/6W	RD8	VRD-MN2BD562J	J AA	5.6 kohms,1/8W
R754~756	VRD-ST2CD222J	J AA	2.2 kohms,1/6W	RD9	VRD-MN2BD103J	J AA	10 kohm,1/8W
R757	VRD-MN2BD103J	J AA	10 kohm,1/8W	RD10	VRD-MN2BD183J	J AA	18 kohms,1/8W
R758,759	VRD-MN2BD102J	J AA	1 kohm,1/8W	RD11	VRD-MN2BD333J	J AA	33 kohms,1/8W
R760~762	VRD-ST2CD102J	J AA	1 kohm,1/6W	RD12	VRD-MN2BD104J	J AA	100 kohm,1/8W
R763~765	VRD-MN2BD103J	J AA	10 kohm,1/8W	RD13	VRD-ST2CD681J	J AA	680 ohms,1/6W
R766,767	VRD-MN2BD102J	J AA	1 kohm,1/8W	RD14	VRD-MN2BD821J	J AA	820 ohms,1/8W
R768	VRD-ST2CD102J	J AA	1 kohm,1/6W	RD25	VRD-ST2CD681J	J AA	680 ohms,1/6W
R769~773	VRD-MN2BD102J	J AA	1 kohm,1/8W	RD26	VRD-ST2CD821J	J AA	820 ohms,1/6W
R775	VRD-ST2CD102J	J AA	1 kohm,1/6W	RD27	VRD-ST2CD102J	J AA	1 kohm,1/6W
R776	VRD-MN2BD102J	J AA	1 kohm,1/8W	RD28	VRD-MN2BD152J	J AA	1.5 kohms,1/8W
R777	VRD-MN2BD103J	J AA	10 kohm,1/8W	RD29	VRD-MN2BD222J	J AA	2.2 kohms,1/8W
R778~780	VRD-MN2BD102J	J AA	1 kohm,1/8W	RD30	VRD-MN2BD272J	J AA	2.7 kohms,1/8W
R781~786	VRD-ST2CD102J	J AA	1 kohm,1/6W	RD31	VRD-MN2BD392J	J AA	3.9 kohms,1/8W
R787~790	VRD-MN2BD102J	J AA	1 kohm,1/8W	RD32	VRD-MN2BD562J	J AA	5.6 kohms,1/8W
R791	VRD-ST2CD103J	J AA	10 kohm,1/6W	RD33	VRD-MN2BD103J	J AA	10 kohm,1/8W
R794	VRD-MN2BD102J	J AA	1 kohm,1/8W	RD34	VRD-ST2CD183J	J AA	18 kohms,1/6W
R795	VRD-MN2BD103J	J AA	10 kohm,1/8W	RD35	VRD-ST2CD333J	J AA	33 kohms,1/6W
R796	VRD-MN2BD473J	J AA	47 kohms,1/8W	RD36	VRD-MN2BD104J	J AA	100 kohm,1/8W
R797	VRD-MN2BD104J	J AA	100 kohm,1/8W	RS710	VRD-MN2BD102J	J AA	1 kohm,1/8W
R798	VRD-MN2BD472J	J AA	4.7 kohms,1/8W	RS712~714	VRD-MN2BD102J	J AA	1 kohm,1/8W
R799	VRD-MN2BD101J	J AA	100 ohm,1/8W	RS718	VRD-MN2BD103J	J AA	10 kohm,1/8W
R801	VRD-ST2CD101J	J AA	100 ohm,1/6W	RS719	VRD-MN2BD223J	J AA	22 kohms,1/8W
R802	VRD-ST2CD222J	J AA	2.2 kohms,1/6W	RS720~722	VRD-MN2BD102J	J AA	1 kohm,1/8W
R803	VRD-ST2CD123J	J AA	12 kohms,1/6W	RS723~725	VRD-ST2CD102J	J AA	1 kohm,1/6W
R810~812	VRD-ST2CD102J	J AA	1 kohm,1/6W	RS727,728	VRD-MN2BD102J	J AA	1 kohm,1/8W
R804	VRD-ST2CD102J	J AA	1 kohm,1/6W	RS729,730	VRD-MN2BD681J	J AA	680 ohms,1/8W
R805	VRD-ST2EE100J	J AA	10 ohm,1/4W				
R809	VRD-ST2CD473J	J AA	47 kohms,1/6W				
R850	VRD-RT2HD3R3J	J AA	3.3 ohms,1/2W				
R851	VRD-ST2CD330J	J AA	33 ohms,1/6W				
R852	VRD-ST2EE223J	J AA	22 kohms,1/4W				

**OTHER CIRCUITRY PARTS**

B11A/B QCNWN1608AWZZ J Connector Ass'y,2/2Pin

# CD-BA3000

NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION	NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
BI4/CNS4	QCNWN1572AWZZ	J AF	Connector Ass'y,6/6Pin	SW729	92LSWICHT1663T	J AC	Switch,Push Type [STOP]
BI11/CNS11	QCNWN1540AWZZ	J AF	Connector Ass'y,5/5Pin	SW731	92LSWICHT1663T	J AC	Switch,Push Type [REC/PAUSE]
BI99/CNS99	QCNWN1616AWZZ	J J	Connector Ass'y,3/3Pin	SW732	92LSWICHT1663T	J AC	Switch,Push Type [TUNING/TIME UP]
BI703/CNS703	QCNWN1562AWZZ	J AH	Connector Ass'y,10/10Pin	SW733	92LSWICHT1663T	J AC	Switch,Push Type [VIDEO/AUX]
BI704/CNS704	QCNWN1561AWZZ	J AF	Connector Ass'y,5/5Pin	SW734	92LSWICHT1663T	J AC	Switch,Push Type [TUNER]
BI705A/B	QCNWN1580AWZZ	J J	Connector Ass'y,3/3Pin	WT601	QCNCW012EAWZZ	J AC	Socket,5Pin
BI801/CNS801	QCNWN1575AWZZ	J J	Connector Ass'y,5/5Pin	<b>CD MECHANISM PARTS</b>			
BI802/CNS802	QCNWN1576AWZZ	J J	Connector Ass'y,5/5Pin	301	NGERH0011AWZZ	J AC	Gear,Middle
BI803/CNS803	QCNWN1647AWZZ	J AG	Connector Ass'y,3/3Pin	302	NGERH0012AWZZ	J AC	Gear,Drive
CNP1	QCNCM704GAWZZ	J AC	Plug,7Pin	303	MLEVP0080AWZZ	J AC	Rail,Guide
CNP2	QCNCM704HAWZZ	J AC	Plug,8Pin	304	NSFTM0020AWFW	J AD	Shaft,Guide
CNP3	92LCONE6P53253	J AC	Plug,6Pin	305	92LM-CUSN1524A	J AC	Cushion
CNP3A	92LCONE6P53254	J AC	Plug,6Pin	△ 306	92LHPC1LXASY	J BD	Pickup Unit Ass'y
CNP4	QCNCM705FAFZZ	J AB	Plug,6Pin	306-1	—	—	Pickup Unit (Not Replacement Item)
CNP5	92LCONE3P53254	J AB	Plug,3Pin	306-2	NGERR0043AFZZ	J AC	Gear,Rack
CNP11	92LCONE5P53254	J AB	Plug,5Pin	306-3	MSPRC0961AFZZ	J AA	Spring,Rack
CNP12	92LCONEAP53254	J AD	Plug,10Pin	701	XBSSD26P06000	J AA	Screw,ø2.6×6mm
CNP101	QCNCM705CAFZZ	J AA	Plug,3Pin	702	XHBSD20P05000	J AA	Screw,ø2×5mm
CNP102	QCNCM705GAFZZ	J AB	Plug,7Pin	703	XBSSD20P03000	J AA	Screw,ø2×3mm
CNP301	92LCONE3P5268	J AC	Plug,3Pin	704	LX-WZ1070AFZZ	J AA	Washer,ø1.5×3.8×0.25mm
CNP702	QCNCWZX29AWZZ	J AE	Socket,29Pin	M1	92LMTR2790CASY	J BB	Motor with Chassis [Spindle]
CNP704	92LCONE5P53254	J AB	Plug,5Pin	M2	92LMTR1854BASY	J AP	Motor with Gear [Sled]
CNP801	QCNCM051EAWZZ	J AD	Plug,5Pin	SW4	QSW-F9001AW01	J AD	Switch,Leaf Type [Pickup In]
CNP802	92LCONE5P5267X	J AB	Plug,5Pin	<b>CABINET PARTS</b>			
CNP803	QCNCM049BAWZZ	J AC	Plug,3Pin	201	92LCAB3308AASY	J	Front Cabinet Ass'y
CNP901	QCNCM010TAWZZ	J AD	Plug,18Pin	201-1	—	—	Front Panel (Not Replacement Item)
CNP903	92LCONE2P53253	J AB	Plug,2Pin	201-2	GDORF0076AWSA	J AE	Holder,Cassette,Tape 1
CNS1A/B	QCNWN1537AWZZ	J AG	Connector Ass'y,7/7Pin	201-3	GDORF0077AWSA	J AE	Holder,Cassette,Tape 2
CNS2A/B	QCNWN1538AWZZ	J AG	Connector Ass'y,8/8Pin	201-4	GCOVA1282AWSA	J AL	Cover,Cassette,Tape 1
CNS3A/B	QCNWN1539AWZZ	J AE	Connector Ass'y,6/6Pin	201-5	GCOVA1283AWSA	J AL	Cover,Cassette,Tape 2
CNS701	QCNCWZF29AWZZ	J AE	Socket,29Pin	201-6	HDECQ0559AWSA	J AE	Panel,Cassette,Tape 1
CNS702	QCNCWZY13AWZZ	J AC	Socket,13Pin	201-7	HDECQ0560AWSA	J AE	Panel,Cassette,Tape 2
CNS901	QCNCW010TAWZZ	J AE	Socket,18Pin	201-8	HDECQ0570AWSA	J AK	Decoration Panel,Amp.
CNS903	QCNWN1582AWZZ	J J	Connector Ass'y,2Pin	201-9	HDECQ0558AWSA	J AH	Decoration Panel,Main Control
△ F801	QFS-D502CSJN1	J AC	Fuse,5A/125V	201-10	JKNBZ0702AWSA	J AH	Knob,Disc Number
△ F804,805	QFS-D502CSJN1	J AC	Fuse,5A/125V	201-11	JKNBZ0703AWSA	J AG	Knob,Main Operation
△ F806	QFS-D202DSJN1	J AD	Fuse,2A/250V	201-12	JKNBZ0700AWSA	J AG	Knob,Power/Clock
FFC701	QCNWN1651AWZZ	J AG	Flat Cable,29Pin	201-13	JKNBZ0705AWSA	J AG	Knob,CD/Tape
FFC702	QCNWN1544AWZZ	J AE	Flat Cable,13Pin	201-14	JKNBZ0722AWSA	J AF	Knob,Tuner/AUX
FL701	VVKBJ744GNK-1	J BD	FL Display	201-15	JKNBZ0708AWSA	J AM	Knob,X-Bass/Equalizer
FW701	QCNWN1649AWZZ	J AC	Flat Wire,7Pin	201-16	HDECQ0569AWSA	J AF	Filter,Display
FW902	QCNWN1543AWZZ	J AD	Flat Wire,5Pin	201-17	HDECQ0562AWSA	J AC	Decoration Ring
JK601	QSOCJ0219AWZZ	J AD	Jack,Video In	201-18	GCOVA1286AWSA	J AG	Cover,X-Bass/Equalizer Knob
JK670	QJAKM0010AWZZ	J AF	Jack,Headphones	201-19	GCOVA1289AWSA	J AG	Cover,Mode Indicator
JOG701	QSW-Z0010AWZZ	J AF	Switch,Rotary Type [JOG]	201-20	GCOVA1290AWSA	J AF	Cover,Timer/Rec.Indicator
M1	92LMTR2790CASY	J BB	Motor with Chassis [Spindle]	201-21	MLIFP0008AWZZ	J AD	Damper
M2	92LMTR1854BASY	J AP	Motor with Gear [Sled]	201-22	MSPRD0092AWFJ	J AB	Spring,Cassette,Tape 1
M3	92LTWMEN7E6Y	J AR	Motor with Worm Pulley [T/T Up/Down Loading]	201-23	MSPRD0093AWFJ	J AB	Spring,Cassette,Tape 2
M701	RMOTV0027AWZZ	J AM	Motor,Volume	201-24	GCOVA1287AWSA	J AG	Cover,Remote Control Sensor
M901	RMOTV0027AWZZ	J AM	Motor,Air Cooling Fan	202	92LCAB3308BASY	J	Side Panel Ass'y,Left
RL801	RRLYD0012AWZZ	J AM	Relay	202-1	—	—	Side Panel,Left (Not Replacement Item)
RL901	RRLYD0004AWZZ	J AP	Relay	202-2	PCUSG0022AWZZ	J AB	Cushion,Leg
RX701	VHLN63H380A-1	J AK	Remote Sensor,N63H380A	203	92LCAB3308CASY	J	Side Panel Ass'y,Right
SO901	QTANA0401AWZZ	J AG	Terminal,Speaker	203-1	—	—	Side Panel,Right (Not Replacement Item)
SW1	SWMPU10780MLB	J AH	Switch,Push Type [Open/Close]	203-2	PCUSG0022AWZZ	J AB	Cushion,Leg
SW2	SWMPU11470MLB	J AE	Switch,Push Type [Clamp]	204	92LCOV3308AASY	J	CD Tray Cover Ass'y
SW3	SWMPU11470MLB	J AE	Switch,Push Type [Disc Number]	204-1	—	—	Cover,CD Tray (Not Replacement Item)
SW4	QSW-F9001AW01	J AD	Switch,Leaf Type [Pickup In]	204-2	92LBADGE1671A	J AC	Badge,SHARP
SW701	92LSWICHT1663T	J AC	Switch,Push Type [POWER]	205	GCAB-1184AWSA	J AP	Top Cabinet
SW702	92LSWICHT1663T	J AC	Switch,Push Type [CLOCK]	206	GITAR0588AWSA	J	Rear Panel [For Canada]
SW703	92LSWICHT1663T	J AC	Switch,Push Type [TIMER/SLEEP]	206	GITAR0626AWSA	J	Rear Panel [For Mexico]
SW709	92LSWICHT1663T	J AC	Switch,Push Type [DISC-1]	207	JKNBZ0707AWSA	J AG	Knob,Volume
SW710	92LSWICHT1663T	J AC	Switch,Push Type [DISC-2]	208	LANGK0110AWFW1J	J AD	Bracket,Tape Mechanism Lock, Tape 1
SW711	92LSWICHT1663T	J AC	Switch,Push Type [DISC-3]	209	LANGK0111AWFW1J	J AD	Bracket,Tape Mechanism Lock, Tape 2
SW712	92LSWICHT1663T	J AC	Switch,Push Type [DISC SKIP]	210	LANGK0188AWFW	J AF	Bracket,Fan Support
SW713	92LSWICHT1663T	J AC	Switch,Push Type [OPEN/CLOSE]	211	LANGK0206AWFW	J	Bracket,PWB Support
SW714	92LSWICHT1663T	J AC	Switch,Push Type [DIMMER]	212	LBSHC0005AWZZ	J AD	Bushing,AC Power Supply Cord
SW715	92LSWICHT1663T	J AC	Switch,Push Type [EQUALIZER]	213	LCHSM0103AWFW	J	Main Chassis
SW716	92LSWICHT1663T	J AC	Switch,Push Type [X-BASS]	214	LHLDZ1254AWSA	J	Holder,FL Display
SW719	92LSWICHT1663T	J AC	Switch,Push Type [CD]				
SW723	92LSWICHT1663T	J AC	Switch,Push Type [TAPE]				
SW724	92LSWICHT1663T	J AC	Switch,Push Type [TUNING/TIME DOWN]				
SW725	92LSWICHT1663T	J AC	Switch,Push Type [MEMORY SET]				
SW726	92LSWICHT1663T	J AC	Switch,Push Type [PRESET DOWN]				
SW727	92LSWICHT1663T	J AC	Switch,Push Type [PRESET UP]				
SW728	92LSWICHT1663T	J AC	Switch,Push Type [PLAY]				

NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
215	LHLDZ1230AWZZ	J AC	Holder,LED
219	MLOKC0003AWZZ	J AD	Lock Lever,Tape Mechanism, Tape 1
220	MLOKC0004AWZZ	J AD	Lock Lever,Tape Mechanism, Tape 2
221	MSPRD0109AWFJ	J AB	Lock Spring,Tape Mechanism, Tape 1
222	MSPRD0110AWFJ	J AB	Lock Spring,Tape Mechanism, Tape 2
223	NFANP0001AWZZ	J AD	Rotary Fan
224	92LPT0331105	J AM	Turntable
225	PCUSG0022AWZZ	J AB	Cushion,Leg
226	PRDAR0160AWFW	J	Heat Sink,Main
227	PRDAR0158AWFW	J	Heat Sink,Sub
△ 229	QACCD0022AWZZ	J AM	AC Power Supply Cord
230	QCNWN1481AWZZ	J AD	Lug Wire
△ 231	QFSDH0001AWZZ	J AB	Holder,Fuse
232	92LBE241414	J AD	Belt
233	92LCSFR1431C	J AA	Spring,Ring
234	92LEVA0330702	J AD	Velvet Carpet,Cushion
235	92LMAG0104302	J AE	Magnet
237	92LNBAND1318A	J AA	Nylon Band,80mm
238	92LNM0305401	J AB	Velvet Carpet
239	92LPT0303002	J AB	Roller
240	92LPT0304303	J AB	Lever,Stop
241	92LPT0304304	J AB	Stopper
242	92LPT0304305	J AE	Lever,Lock
243	92LPT0304306	J AG	Stabilizer
244	92LPT0304307	J AC	Support,Cam
245	92LPT0304308	J AB	Lock Gear,Pin
246	92LPT0304309	J AB	Cap,Pulley Stopper
247	92LPT0305413	J AG	Cam Gear,Lower
248	92LPT0309506	J AD	Gear,Turntable Drive
249	92LPT0309507	J AD	Gear,Open/Close Drive
250	92LPT0309508	J AD	Gear,Planet
251	92LPT0309509	J AD	Gear,Drive
252	92LPT0309510	J AE	Gear,Pulley
253	92LPT0309511	J AD	Gear,Middle
254	92LPT0311101	J AB	Lever,Clamp
255	92LPT0311102	J AC	Lever,Disc
256	92LPT0312005	J AL	Gear,Cam
257	92LPT0320201	J AE	Support,Stabilizer
258	92LPT0330301	J AU	Chassie,CD Player
259	92LPT0330803	J AK	CD Mechanism,Chassis
260	92LPT0331003	J AT	CD Player Base
262	92LSP0304303	J AB	Spring,Stopper
263	92LSP0304305	J AB	Spring,Lock Lever
264	92LSP0304306	J AB	Spring,Lock Gear
265	KMECB0011AWZZ	J BH	Tape Mechanism Ass'y
266	92LMT0304302	J AB	Metal Plate
272	PSPAZO022AWZZ	J	Spacer A
273	LANGK0195AWFW	J AC	Bracket,Headphones PWB
274	LX-LZ0012AWZZ	J AB	Holder,Power Supply PWB
275	PSLDM3068AWFW	J	Shield,Power Transformer
276	LANGK0057AWFW	J AE	Bracket,Heat Sink A
277	LANGK0058AWFW	J AE	Bracket,Heat Sink B
278	PGIDM0029AWZZ	J AC	Guide,Volume
279	LCHSZ0016AWZZ	J	Volume Chassis
280	NGERW0012AWZZ	J AD	Warm Gear
281	NBLTK0036AWZZ	J AC	Belt,Volume Motor
282	NGERH0093AWZZ	J AE	Wheel,Volume
283	LHLDZ1257AWZZ	J	Holder,Volume
284	NPLYM0017AWZZ	J AB	Pulley,Volume Motor
285	QLUGP0001AWZZ	J AC	Lug Terminal
286	QLUGP0002AWZZ	J AB	Lug Terminal
601	XBBSD20P04000	J AA	Screw,ø2×4mm
604	XEBSD30P12000	J AA	Screw,ø3×12mm
605	XESSD30P10000	J AA	Screw,ø3×10mm
606	XHBSD26P04000	J AA	Screw,ø2.6×4mm
607	XHBSD30P06000	J AA	Screw,ø3×6mm
608	XJBSD30P10000	J AA	Screw,ø3×10mm
609	XJBSD30P14000	J AA	Screw,ø3×14mm
610	XJBSF30P10000	J AA	Screw,ø3×10mm
611	XJSSD30P10000	J AA	Screw,ø3×10mm
613	LX-HZ0082AFZZ	J AA	Screw,ø4×8mm
614	LX-JZ0010AFFD	J AA	Screw,ø3×10mm
616	92LSC0308MBZI	J AB	Screw,ø3×8mm
617	LX-HZ0009AWFD	J AC	Screw,Special
618	XBBSD20P05000	J AA	Screw,ø2×5mm

**ACCESSORIES/PACKING PARTS**

NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
	QANTL0007AWZZ	J AK	AM/FM Loop Antenna
	SPAKA0255AWZZ	J	Packing Add.,Left/Right
	SPAKC0911AWZZ	J	Packing Case [For Canada]
	SPAKC0912AWZZ	J	Packing Case [For Mexico]
	SPAKP0013AWZZ1	J AC	Polyethylene Bag,Unit
	TCAUS0042AWZZ	J AB	Caution,Energy Star
	TINSK0105AWZZ	J AF	Operation Manual [For Canada]
	TINSZ0593AWZZ	J	Operation Manual [For Mexico]
	TLABN0112AWZZ	J	Serial No.Label
	TLABRF240AWZZ	J	Label,Bar Code
	TLABZ0593AWZZ	J AB	Energy Star Caution Label [Unit]
	TLABZ0767AWZZ	J	Feature Label, Tape 1
	TLABZ0768AWZZ	J	Feature Label, Tape 2
	92LBAG1460C1	J AB	Polyethylene Bag,Accessories
	RRMCG0219AWSA	J AR	Remote Control
1-1	GFTAB1022AWSB	J AK	Battery Lid,Remote Control

**P.W.B. ASSEMBLY (Not Replacement Item)**

PWB-A1-5	92LPWB3408MANS	J	—	Main/Display/Headphones/Digital Output/Switch (Combined Ass'y)
△ PWB-B1,2	92LPWB3408PWRS	J	—	Power Supply/Power Transformer (Combined Ass'y)
PWB-C	92LPWB3306CDUS	J	—	CD Servo
PWB-D	QPWBF0027AWZZ	J AD	—	CD Motor (PWB Only)
PWB-E			—	Tape Mechanism
PWB-F	92LPC99C017	J AE	—	CD Loading Motor (PWB Only)
PWB-G1,2	92LPWB3352VOLS	J	—	Volume Motor/Jog (Combined Ass'y)

**OTHER SERVICE PART**

UDSKA0004AFZZ	J AZ	CD Optical Pickup Lens Cleaner Disc
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**CP-BA3000**

**SPEAKER BOX PARTS**

901	92LJ1918B	J AN	Net Frame Ass'y
902	92LJ1919LB	J AY	Front Panel,Left
902	92LJ1919RB	J AY	Front Panel,Right
903	92LJ1920	J AU	Woofer Support
904	92LE5834	J BA	Crossover Network Ass'y (With Capacitor/Cement Resistor)
905	92LJ9802	J AF	Catching Holder
906	92LJ9803	J AD	Rubber Cushion
907	92LJ9804	J AD	Felt
908	92LP5881	J	Label,Specifications
909	92L9569C	J BE	Speaker Box Ass'y
910	92LF1228A	J AC	Screw,ø4×12mm
911	92LF1080	J AB	Screw,ø3×10mm
912	92LF1678A	J AB	Screw,ø4×16mm
913	92LF2019	J AB	Screw,ø4×20mm
SP1,2	VSP0020WBA56A	J BE	Woofer
SP3,4	VSP0080TBP36A	J BA	Tweeter
SP5,6	92LC2827AS	J AP	Super Tweeter Ass'y

**ACCESSORY/PACKING PARTS**

92LN1887F	J	Packing,Add.,Top
92LN1887R	J	Packing,Add.,Bottom
92LTD8675NM	J AV	Speaker Cord Ass'y
92LV1017CA	J AG	Mirror Mat
92LV4974B	J AE	Polyethylene Bag,Speaker Layer Pad
92LV5795E	J AF	

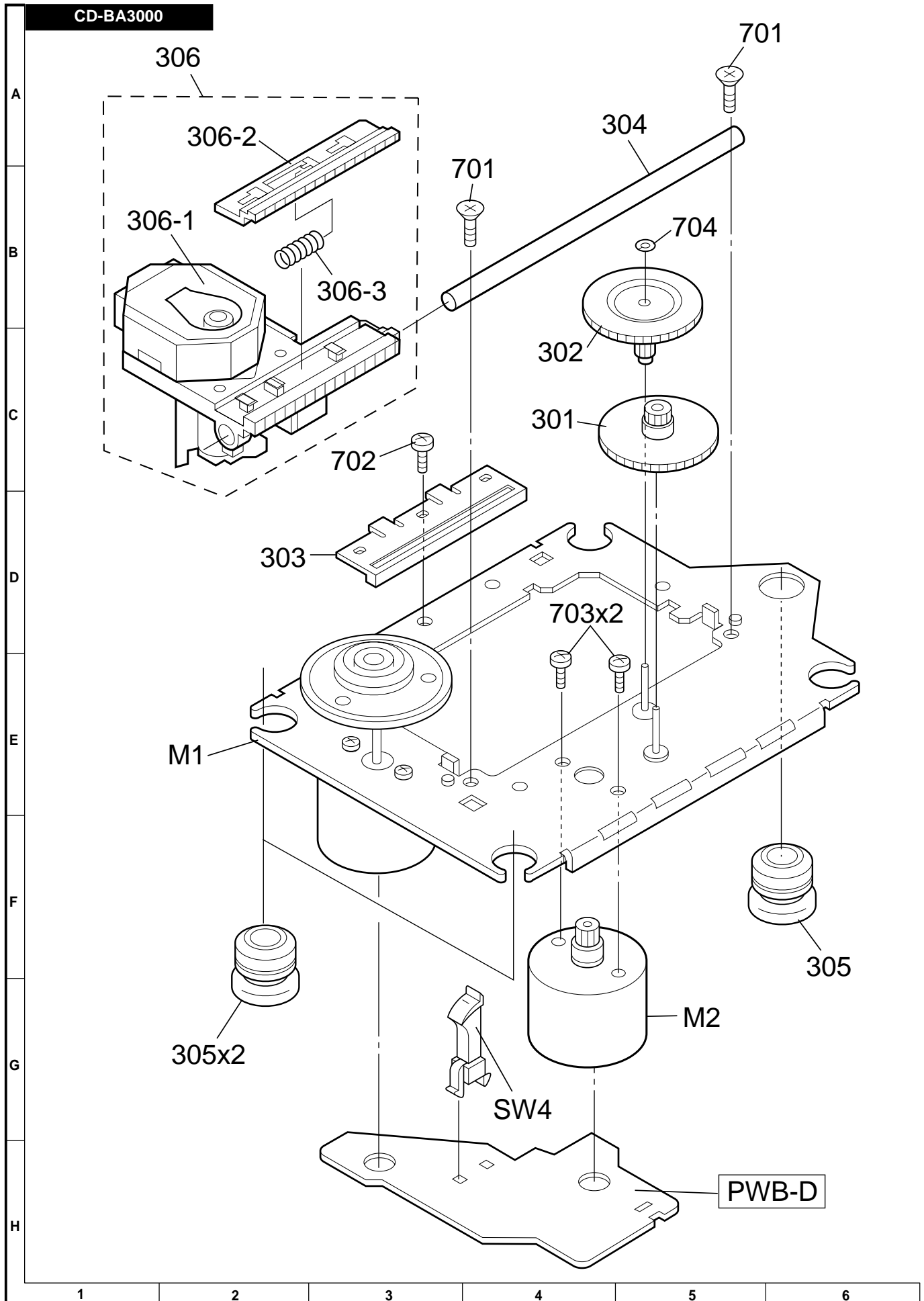


Figure 7 CD MECHANISM EXPLODED VIEW







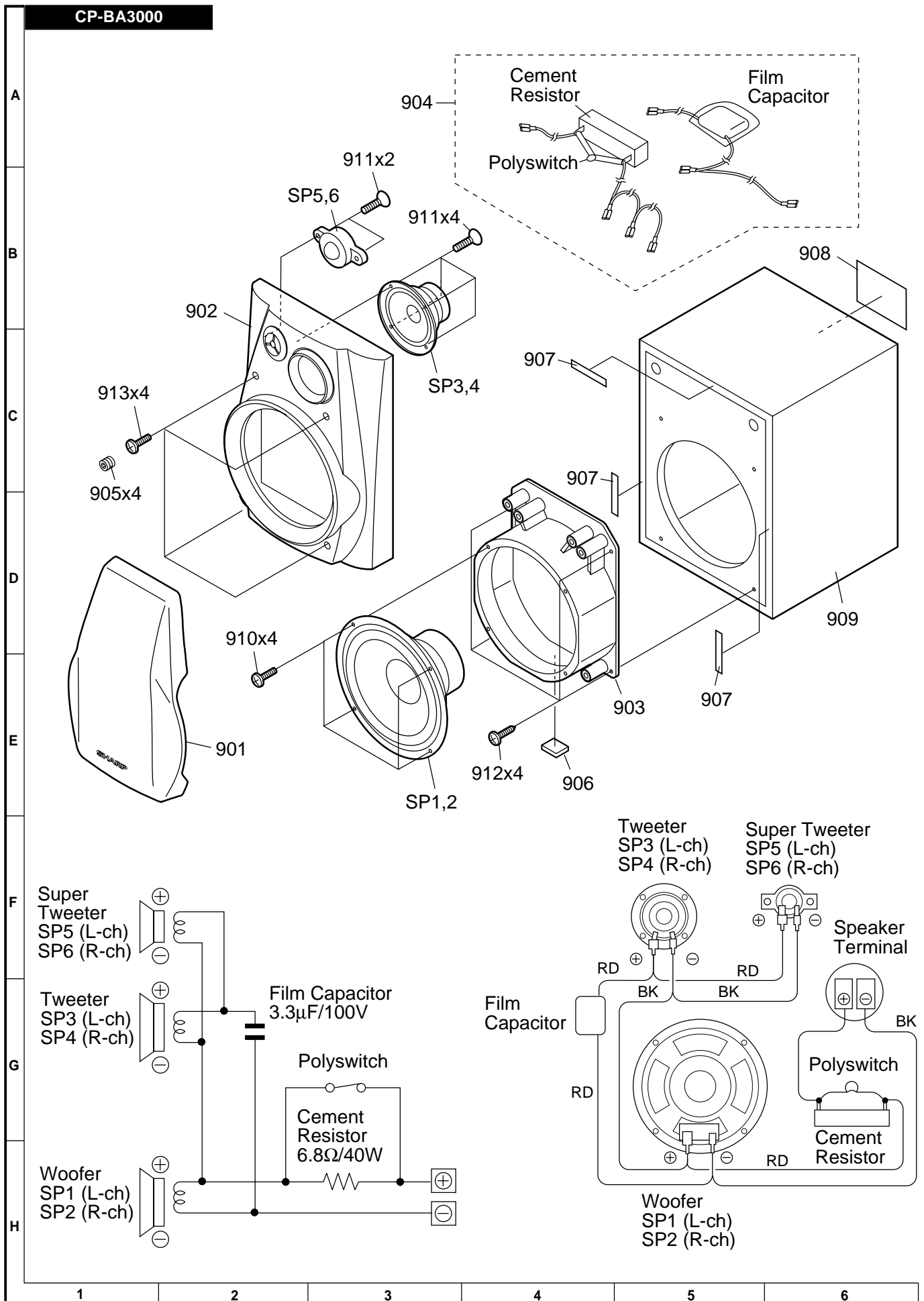


Figure 10 SPEAKER EXPLODED VIEW (1/2)

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