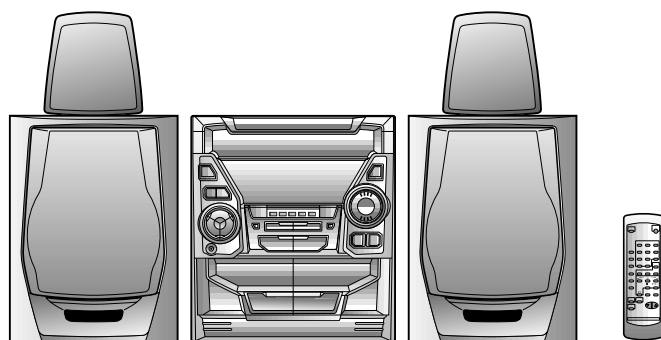


SHARP SERVICE MANUAL

No. S7058CDBP145V

VIDEO CD MINI SYSTEM

MODEL CD-BP1450V



CD-BP1450V Video CD Mini System consisting of CD-BP1450V (main unit), CP-BK1450 (front speakers) and GBOXS0043AWM1 (surround speakers).

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



NTSC/PAL

This Service Manual is for the CD-BP1450V, which is a minor-modification model of the CD-BP1300V. This manual, therefore, describes only the changed points from the service manual. Please refer to the CD-BP1300V service manual (No.S7057CDBP130V) together with this manual.

CD-BP1300V

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SAFETY PRECAUTION FOR SERVICE MANUAL

Precaution to be taken when replacing and servicing the Laser Pickup.

The AEL (Accessible Emission Level) of Laser Power Output for this model is specified to be lower than Class 1 Requirements. However, the following precautions must be observed during servicing to protect your eyes against exposure to the Laser beam.

- (1) When the cabinet has been removed, the power is turned on without a compact disc, and the Pickup is on a position outer than the lead-in position, the Laser will light for several seconds to detect a disc. Do not look into the Pickup Lens.
- (2) The Laser Power Output of the Pickup inside the unit and replacement service parts have already been adjusted prior to shipping.
- (3) No adjustment to the Laser Power should be attempted when replacing or servicing the Pickup.
- (4) Under no circumstances look directly into the Pickup Lens at any time.
- (5) CAUTION - Use of controls or adjustments, or performance of procedures other than those specified herein may result in hazardous radiation exposure.

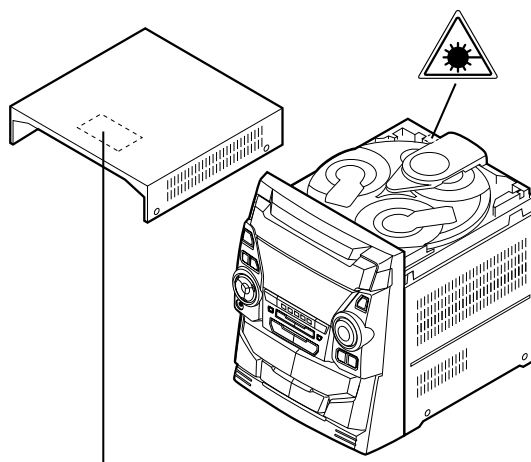
CAUTION

CLASS 1 LASER PRODUCT
APPAREIL À LASER DE CLASSE 1
PRODUCTO LASER DE CLASE 1

- This Video CD Mini System is classified as a CLASS 1 LASER product.
- The CLASS 1 LASER PRODUCT label is located on the rear cover.
- Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

As the laser beam used in this compact disc player is harmful to the eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.

Laser Diode Properties
 Material: GaAlAs
 Wavelength: 780 nm
 Emission Duration: continuous
 Laser Output: max. 0.6 mW

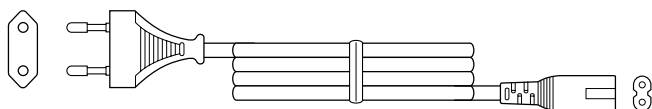


CAUTION-INVISIBLE LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.
 VARNING-ÖSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. STIRRA EJ IN I STRÅLEN OCH BETRAKTA EJ STRÅLEN MED OPTISKA INSTRUMENT.
 ADVÆRSEL-USYNLIG LASERSTRÅLING VED ÅBNING. SE IKKE IND I STRÅLEN-HELLER IKKE MED OPTISKE INSTRUMENTER.
 VARO! AVATTAESSA OLET ALTIIN NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ TUDOTA SÄTEESSEN ÄLÄKÄ KATSO SITA OPTISEN LAITTEEN LÄPI.
 VARNING-ÖSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. STIRRA EJ IN I STRÅLEN OCH BETRAKTA EJ STRÅLEN GENOM OPTISKT INSTRUMENT.
 ADVÆRSEL-USYNLIG LASERSTRÅLING NÄR DEKSEL ÅPNES. STIRR IKKE INN I STRÅLEN ELLER SE DIREKTE MED OPTISKE INSTRUMENTER.

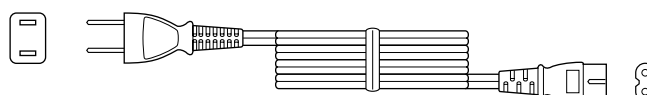
VOLTAGE SELECTION

Before operating the unit on mains, check the preset voltage. If the voltage is different from your local voltage, adjust the voltage as follows, Turn the selector with a screwdriver until the appropriate voltage number appears in the window (110 V, 127 V, 220 V or 230 V - 240 V AC).

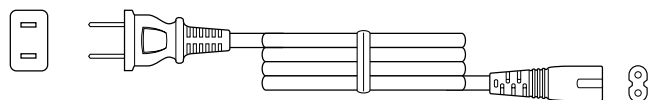
QACCE0007AW00



QACCJ0006AW00



QACCA0004AW00



QPLGA0003AWZZ



QPLGA0004AWZZ



Figure 2 AC POWER SUPPLY CORD AND PLUG ADAPTOR

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

SPECIFICATIONS

CD-BP1450V

■ General

Power source:	AC 110/127/220/230-240 V, 50/60 Hz
Power consumption:	47 W
Dimensions:	Width; 270 mm (10-5/8") Height; 300 mm (11-13/16") Depth; 373 mm (14-11/16")
Weight:	5.2 kg (11.4 lbs.)

■ Amplifier section

Output power:	MPO; 64 W (32 W + 32 W) (10 % T.H.D.) RMS; 40 W (20 W + 20 W) (10 % T.H.D.) RMS; 28 W (14 W + 14 W) (0.9 % T.H.D.)
Output terminals:	Front speakers; 8 ohms Surround speakers; 16 ohms Headphones; 16 - 50 ohms (recommended; 32 ohms) Video out; 1 Vp-p (75 ohms)

■ Compact disc player section

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

■ Video CD section

Video output format:	PAL/PAL 60/NTSC
-----------------------------	-----------------

■ Tuner section

Frequency range:	FM; 88 - 108 MHz AM; 531 - 1,602 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-BK1450

Type:	2-way [13 cm (5-1/4") woofer and 5 cm (2") tweeter]
Maximum input power:	30 W
Rated input power:	15 W
Impedance:	8 ohms
Dimensions:	Width; 220 mm (8-11/16") Height; 300 mm (11-13/16") Depth; 217 mm (8-9/16")
Weight:	2.7 kg (5.9 lbs.)/each

GBOXS0043AWM1

Type:	8 cm (3-1/8") full-range speaker
Maximum input power:	10 W
Rated input power:	5 W
Impedance:	16 ohms
Dimensions:	Width; 150 mm (6") Height; 150 mm (6") Depth; 78 mm (3")
Weight:	0.4 kg (0.9 lbs.)/each

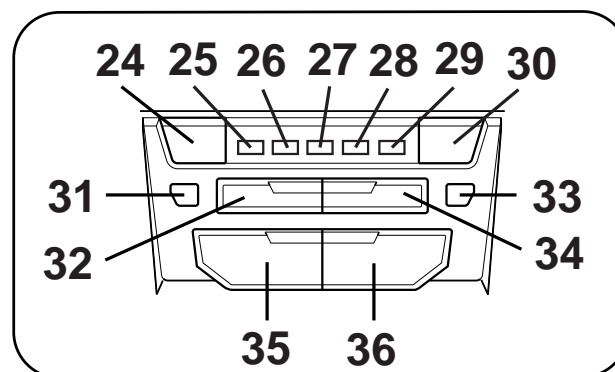
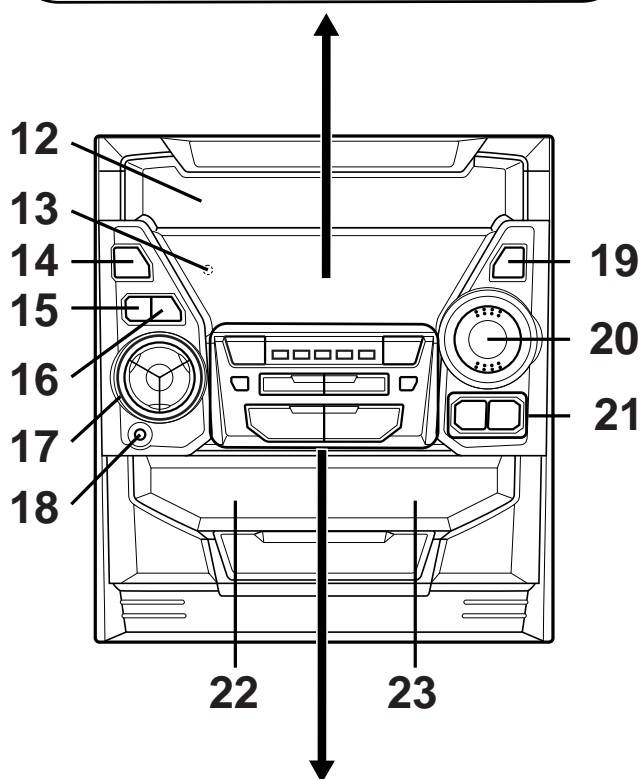
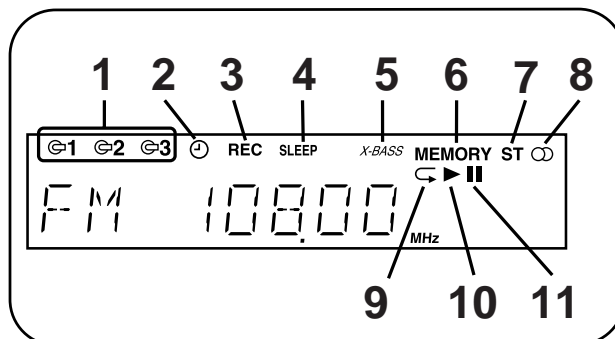
Specifications for this model are subject to change without prior notice.

NAMES OF PARTS

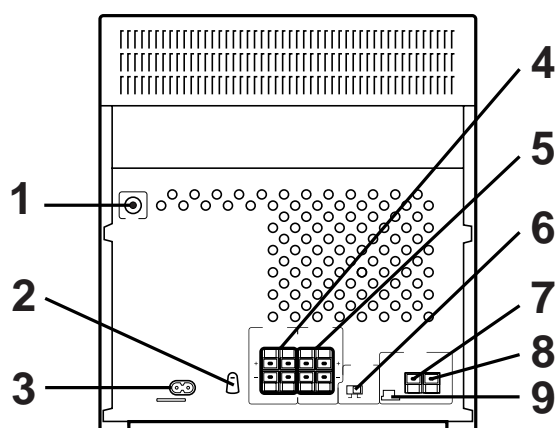
CD-BP1450V

■ Front panel

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



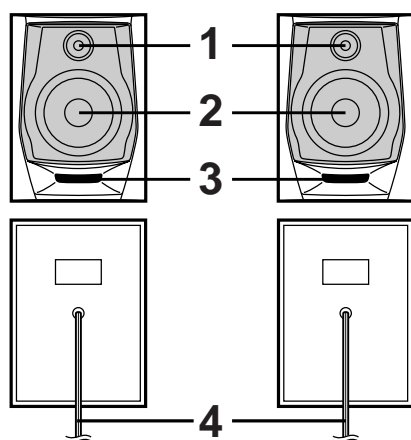
■ Rear panel



1. Video Output Socket
2. AC Voltage Selector
3. AC Power Input Socket
4. Surround Speaker Terminals
5. Front Speaker Terminals
6. Span Selector Switch
7. FM Aerial Earth Terminal
8. FM 75 Ohms Aerial Terminal
9. AM Loop Aerial Input Socket

CP-BK1450

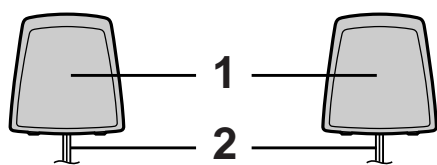
■ Front speaker



1. Tweeter
2. Woofer
3. Bass Reflex Duct
4. Speaker Wire

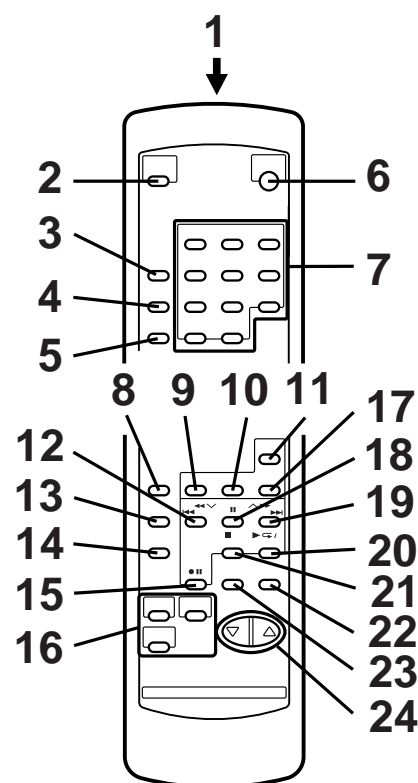
GBOXS0043AWM1

■ Surround speaker



1. Full-Range Speaker
2. Speaker Wire

■ Remote control



1. Remote Control Transmitter LED
2. (VCD/CD) Audio Mode Button
3. (VCD) VCD Auto/On Button
4. (VCD) Playback Control Auto/Off Button
5. (VCD) On Screen Display On/Off Button
6. On/Stand-by Button
7. (VCD/CD) Direct Search Button
8. (VCD) Digest/Time Search Button
9. (VCD/CD) Clear Button
10. (VCD/CD) Memory Button
11. (VCD/CD) Disc Skip Button
12. (VCD) Skip/Previous Button
13. (VCD) Bookmark Button
14. (VCD) PAL/NTSC Select Button
15. (TAPE 2) Record Pause Button
16. Function Selector Buttons
17. (VCD/CD) Random Button
18. (VCD/CD) Pause Button
19. (VCD) Skip/Next Button
20. (VCD) Play/Repeat/Select/Resume Button
21. (VCD) Stop/Return Button
22. Extra Bass Button
23. Equalizer Mode Selector Button
24. Volume Up/Down Buttons

OPERATION MANUAL

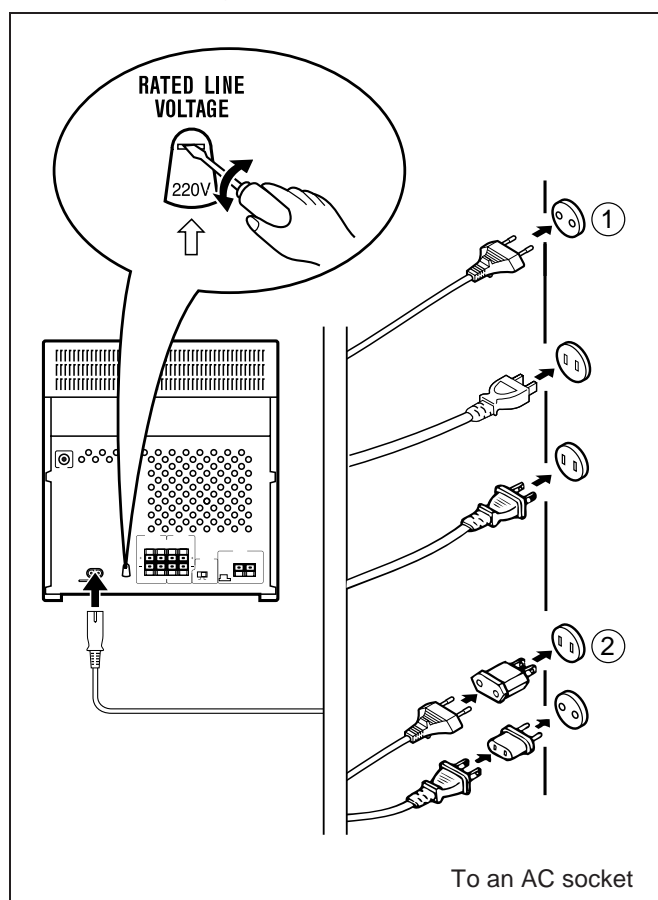
(Continued)

■ Connecting the AC power lead

Check the setting of the AC voltage selector located on the rear panel before plugging the unit into an AC socket. If necessary, adjust the selector to correspond to the AC power voltage used in your area.

Selector adjustment:

Turn the selector with a screwdriver until the appropriate voltage number appears in the window (110 V, 127 V, 220 V or 230 V -240 V AC).



Notes:

- Plug the AC power lead into an AC socket, after any connections.
- Unplug the AC power lead from the AC socket if the unit will not be in use for a prolonged period of time.
- Never use a power lead other than the one supplied. Use of a power lead other than the one supplied may cause an electric shock or fire.

● AC Plug Adaptor

In areas (or countries) where an AC socket as shown in illustration ② is used, connect the unit using the AC plug adaptor supplied with the unit, as illustrated. The AC plug adaptor is not included in areas where the AC wall socket and AC power plug can be directly connected (see illustration ①).

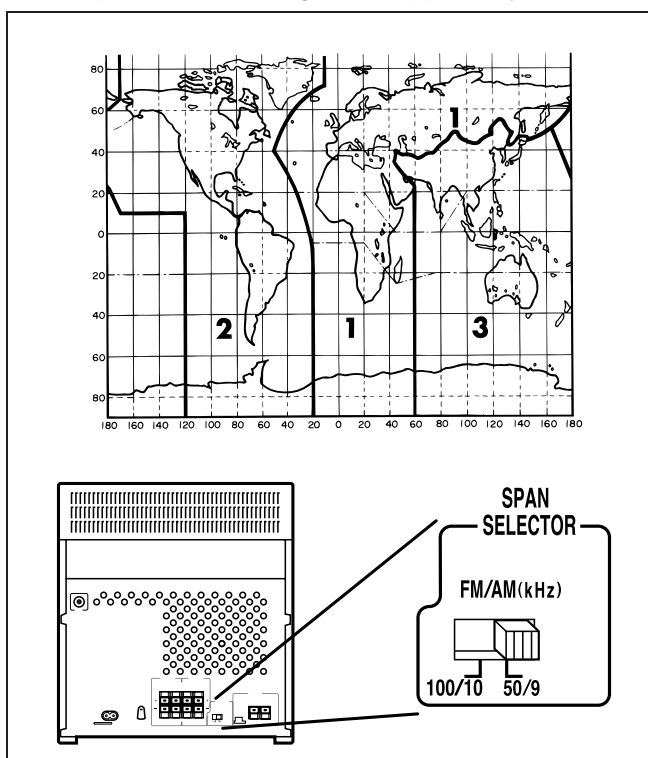
Note for users in Australia and New Zealand:

An AC plug adaptor is not supplied if the lead has an Australian Standard plug.

■ AM/FM interval (span)

The International Telecommunication Union (ITU) has established that member countries should maintain either a 10 kHz or a 9 kHz interval between broadcasting frequencies of any AM station. The illustration shows the 9 kHz interval zones (regions 1 and 3), and the 10 kHz interval zone (region 2).

Before using the unit, set the SPAN SELECTOR switch (on the rear panel) to AM tuning interval (span) of your area.



To change the tuning zone:

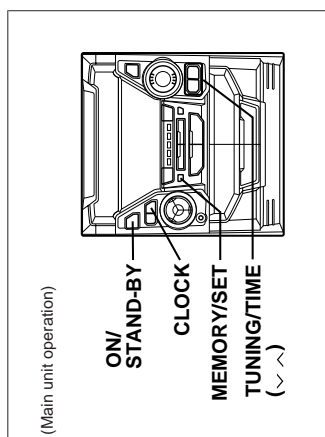
- 1 Press the ON/STAND-BY button to enter the stand-by mode.
 - 2 Set the SPAN SELECTOR switch to "50/9" for 9 kHz AM interval (50 kHz FM interval), and "100/10" for 10 kHz AM interval (100 kHz FM interval).
 - 3 Whilst pressing down the ► / ◄ button and the EQUALIZER/X-BASS/DEMO button, hold down the 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.

SETTING THE CLOCK

In this example, the clock is set for the 24-hour (0:00) system.



- 1 Press the ON/STAND-BY button to enter the standby mode.
- 2 Press the CLOCK button.

CLOCK

- 3 Within 5 seconds, press the MEMORY/SET button.

0:00

- 4 Press the TUNING/TIME (V or ^) button to select the time display mode.

0:00

0:00 ↔ AM 0:00 ↔ AM 12:00

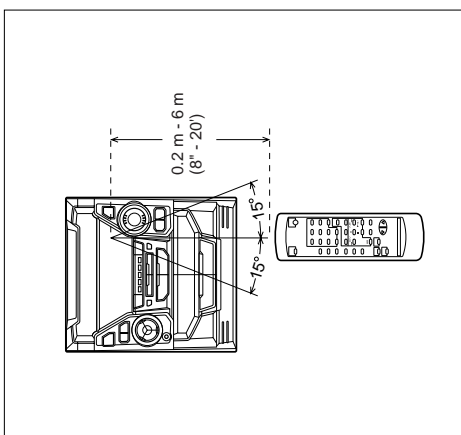
- "0:00" → The 24-hour display will appear. (0:00 - 23:59)
- "AM 0:00" → The 12-hour display will appear. (AM 0:00 - PM 11:59)
- "AM 12:00" → The 12-hour display will appear. (AM 12:00 - PM 11:59)

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

- 5 Press the MEMORY/SET button.

0:00

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.

RESETTING THE MICROCOMPUTER

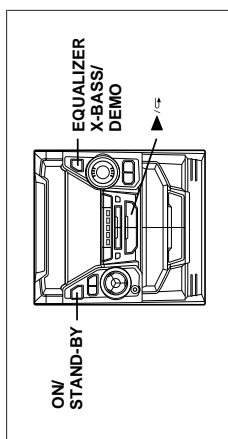
Reset the microcomputer under the following conditions:

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 standby mode.
- 2 Whilst pressing down the ► / ◀ button, and the EQUALIZER/X-BASS/DEMO button, hold down the ON/STAND-BY button for at least 1 second.



Caution:

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

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-BP1450V

STEP	REMOVAL	PROCEDURE	FIGURE
1	Top Cabinet	1. Screw (A1) x4	8-1
2	Side Panel (Left/right)	1. Screw (B1) x2 2. Screw (B2) x2	8-1
3	CD Player Unit/ CD Tray Cover	1. Turn on the power supply, open the disc tray, take out the CD cover, and close. (Note 1) 2. Screw (C1) x1 3. Hook (C2) x3 4. Hook (C3) x2 5. Socket (C4) x3	8-2
4	Rear Panel	1. Screw (D1) x8	8-2
5	Main/Headphones PWB	1. Screw (E1) x8 2. Socket (E2) x4 3. Flat Cable (E3) x1 4. Lug Wire (E4) x1	9-2
6	Front Panel	1. Screw (F1) x3	9-2
7	Display PWB	1. Screw (G1) x9 2. Flat Cable (G2) x1	9-3
8	Tape Mechanism	1. Open the cassette holder. 2. Screw (H1) x5	9-3
9	Turntable	1. Hook (J1) x2 2. Cover (J2) x1	9-4
10	Disc Tray	1. Turn fully the lock lever in the arrow direction. 2. While holding the lock lever, rotate the cam gear until the cam gear rib engages with the clamp lever. 3. Push the slide holder backward to engage the claw with the groove and remove it in the direction of the arrow. (K1) x6	8-3 9-1 9-5
11	CD Servo PWB (Note 2)	1. Screw (L1) x1 2. Hook (L2) x3 3. Socket (L3) x4	9-6
12	CD Mechanism	1. Hook (M1) x2 2. Hook (M2) x3	10-1
13	Loading Motor PWB	1. Hook (N1) x5	10-1

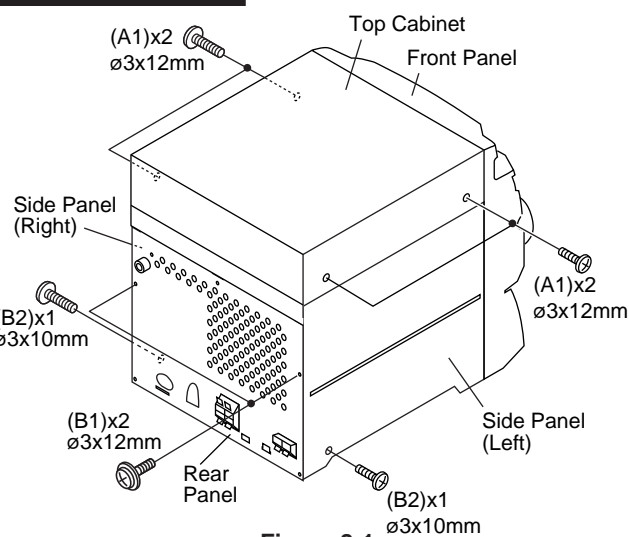
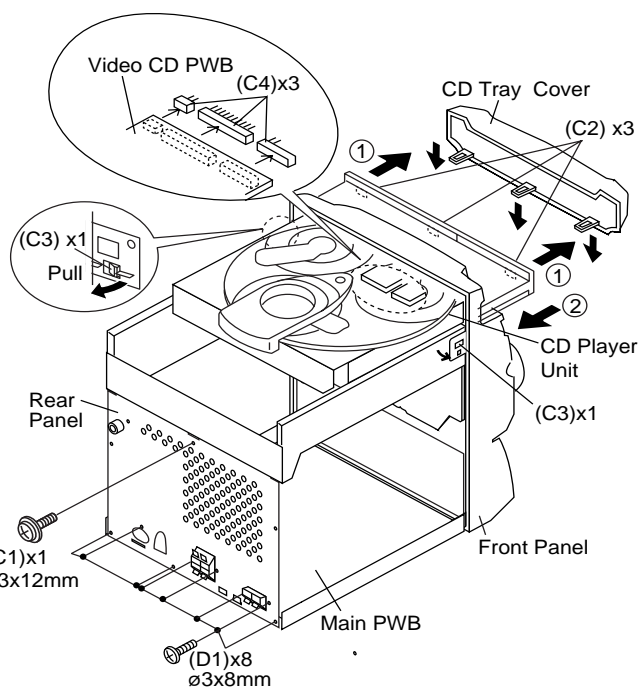
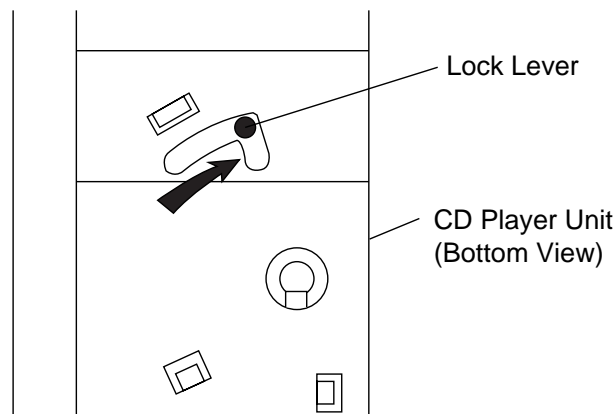
Note 1:

How to open the changer manually. (Fig. 8-3)

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 anti clockwise until the cam gear rib engages with the clamp lever. (Fig. 9-1)
3. After that, push forward the CD slide holder.

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 to protect the optical pickup from electrostatic damage.

CD-BP1450V**Figure 8-1****Figure 8-2****Figure 8-3****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.

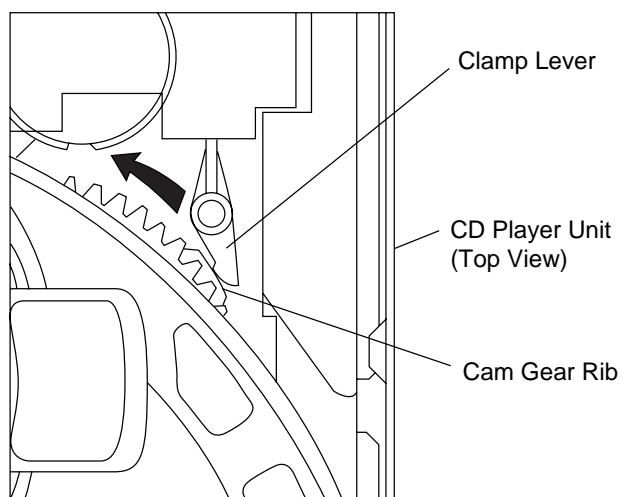


Figure 9-1

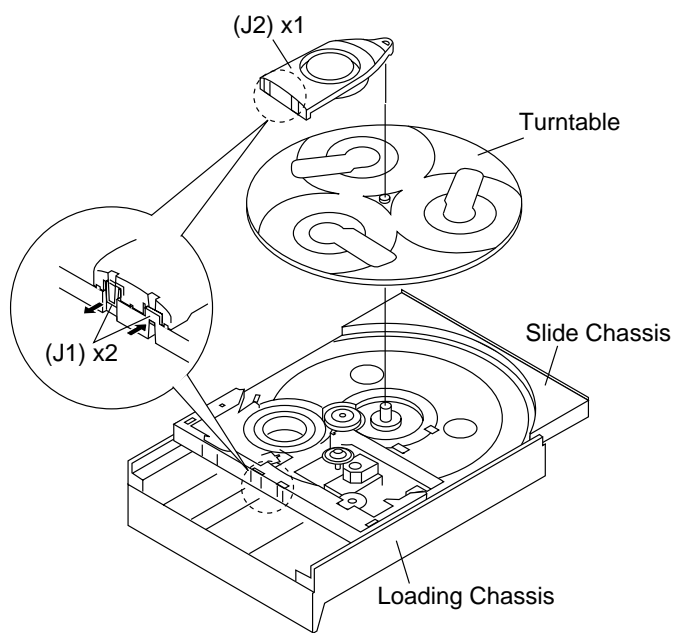


Figure 9-4

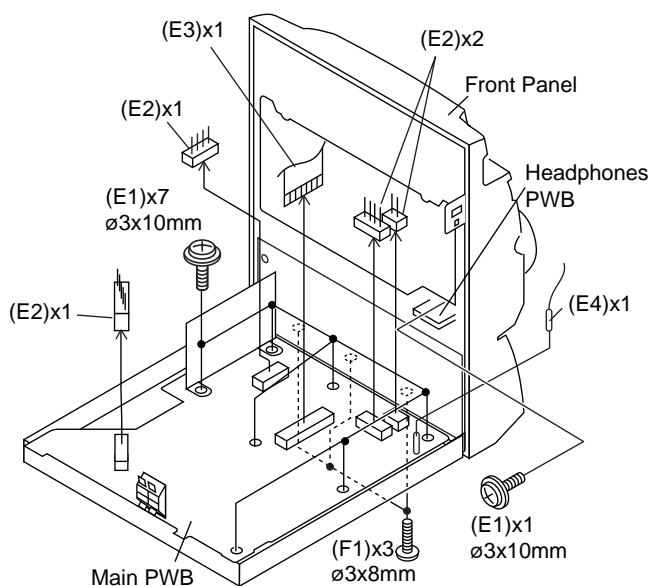


Figure 9-2

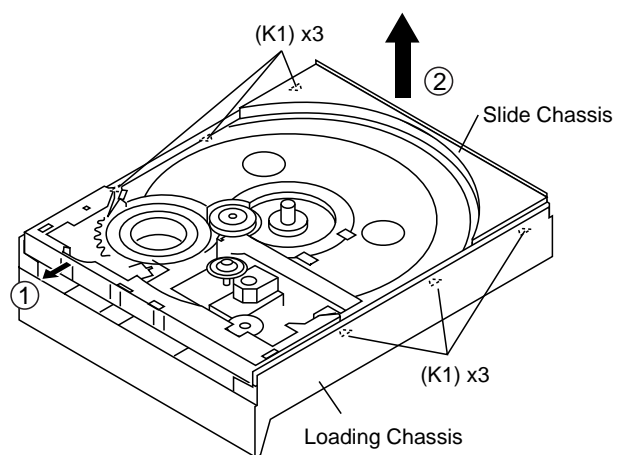


Figure 9-5

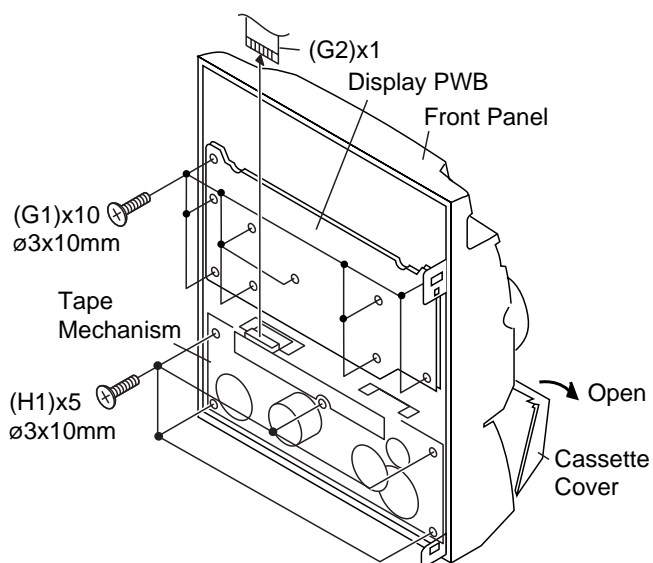


Figure 9-3

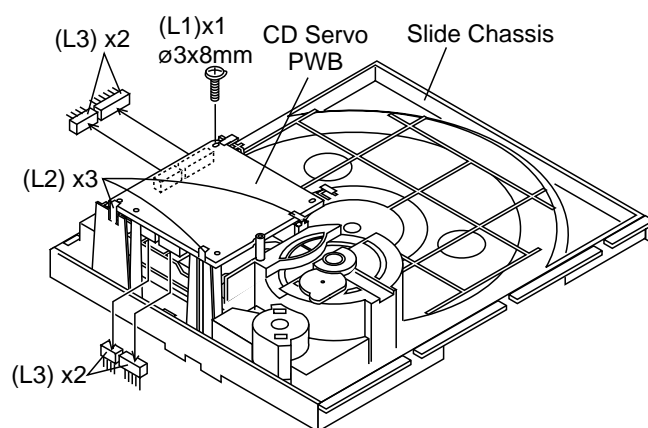


Figure 9-6

CD-BP1450V

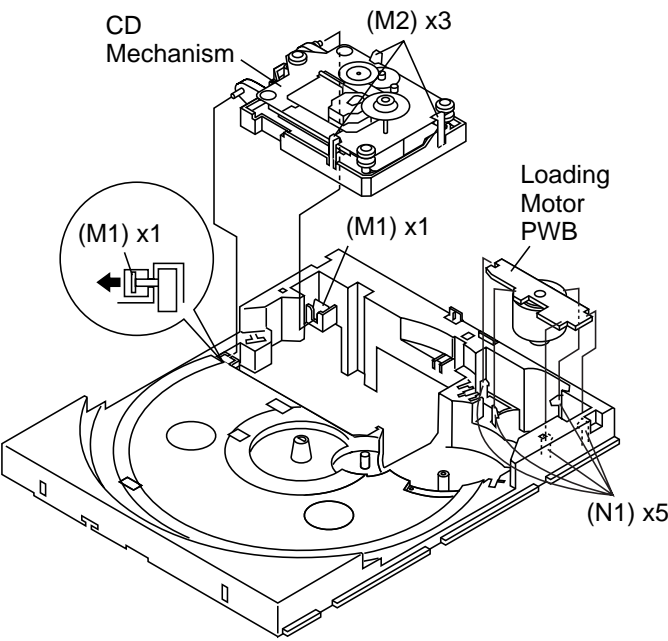


Figure 10-1

CP-BK1450			
STEP	REMOVAL	PROCEDURE	FIGURE
1	Woofer	1. Front Panel (A1) x1 2. Screw (A2) x4	10-2
2	Tweeter	1. Screw (B1) x2	10-3

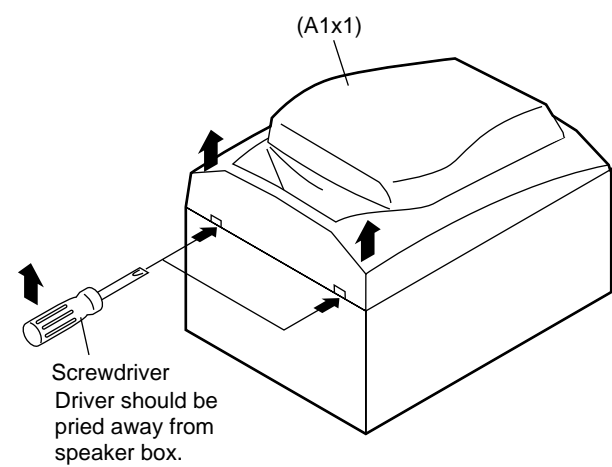


Figure 10-2

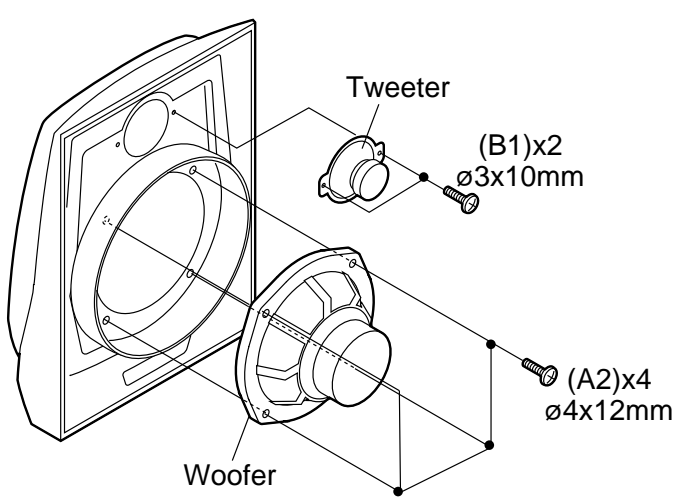


Figure 10-3

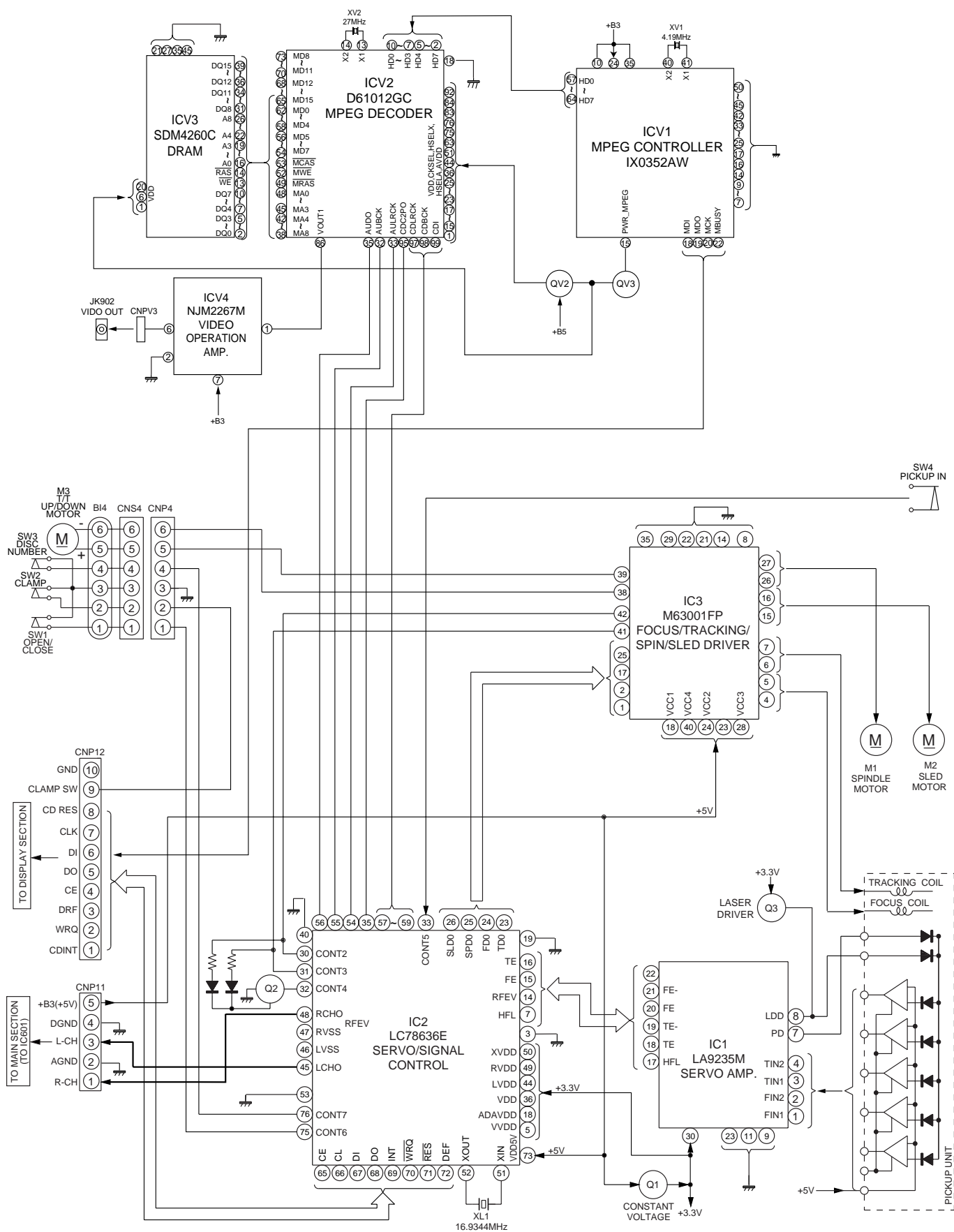


Figure 11 BLOCK DIAGRAM (1/3)

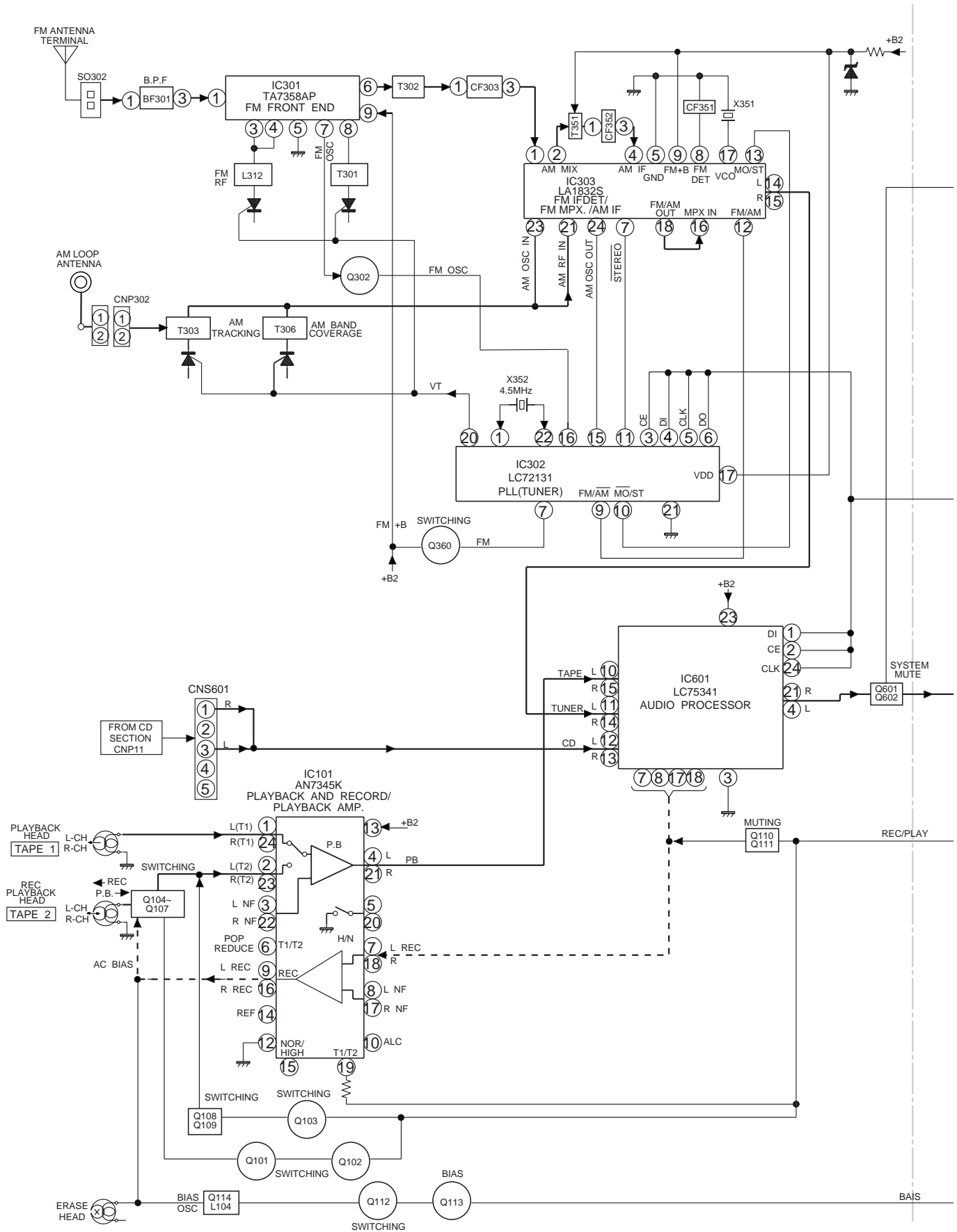


Figure 12 BLOCK DIAGRAM (2/3)

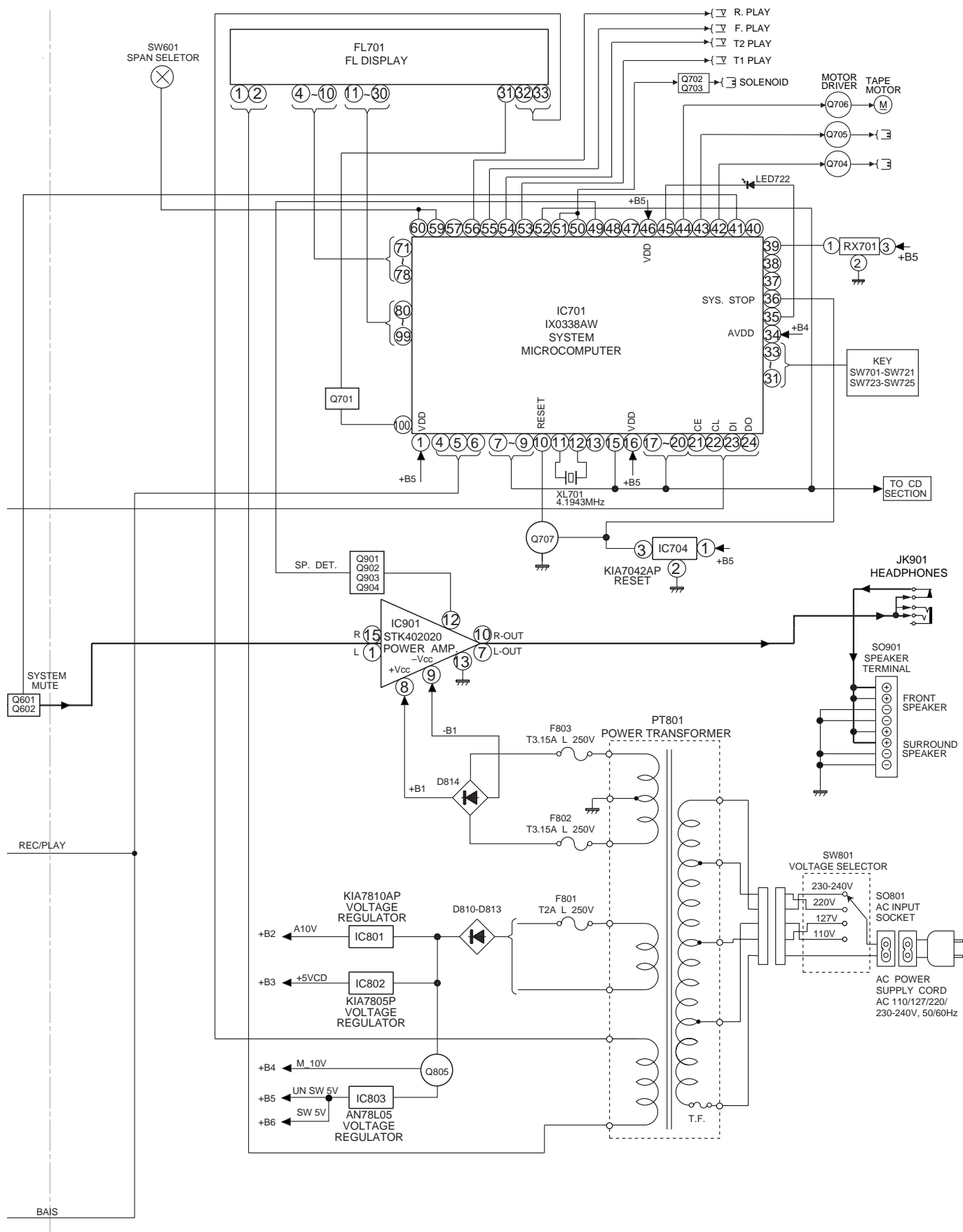
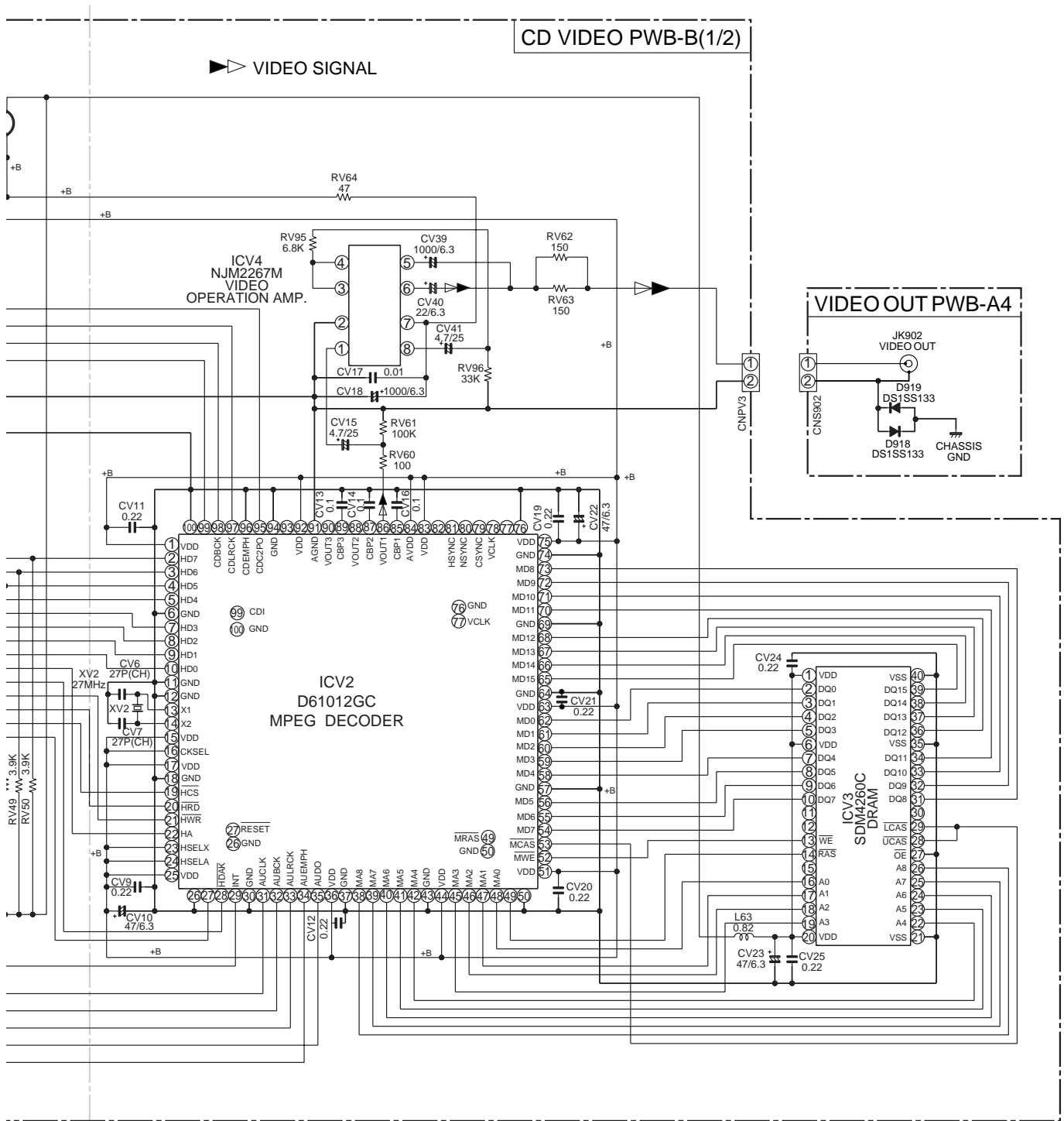


Figure 13 BLOCK DIAGRAM (3/3)



- 14 -

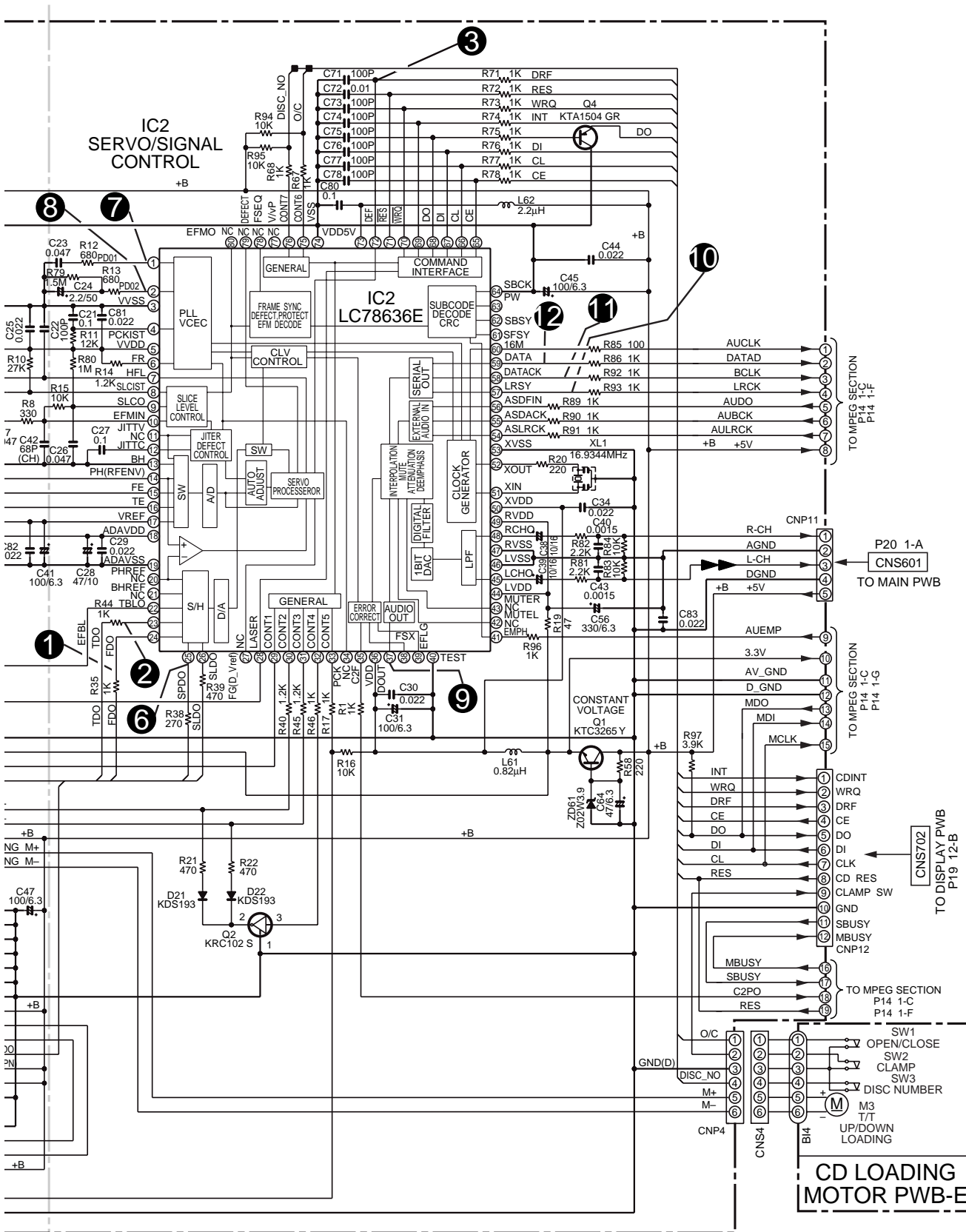


7	8	9	10	11	12
---	---	---	----	----	----

Figure 15 SCHEMATIC DIAGRAM (2/11)



- 16 -



- The numbers 1 to 13 are waveform numbers shown in page 33.

Figure 17 SCHEMATIC DIAGRAM (4/11)

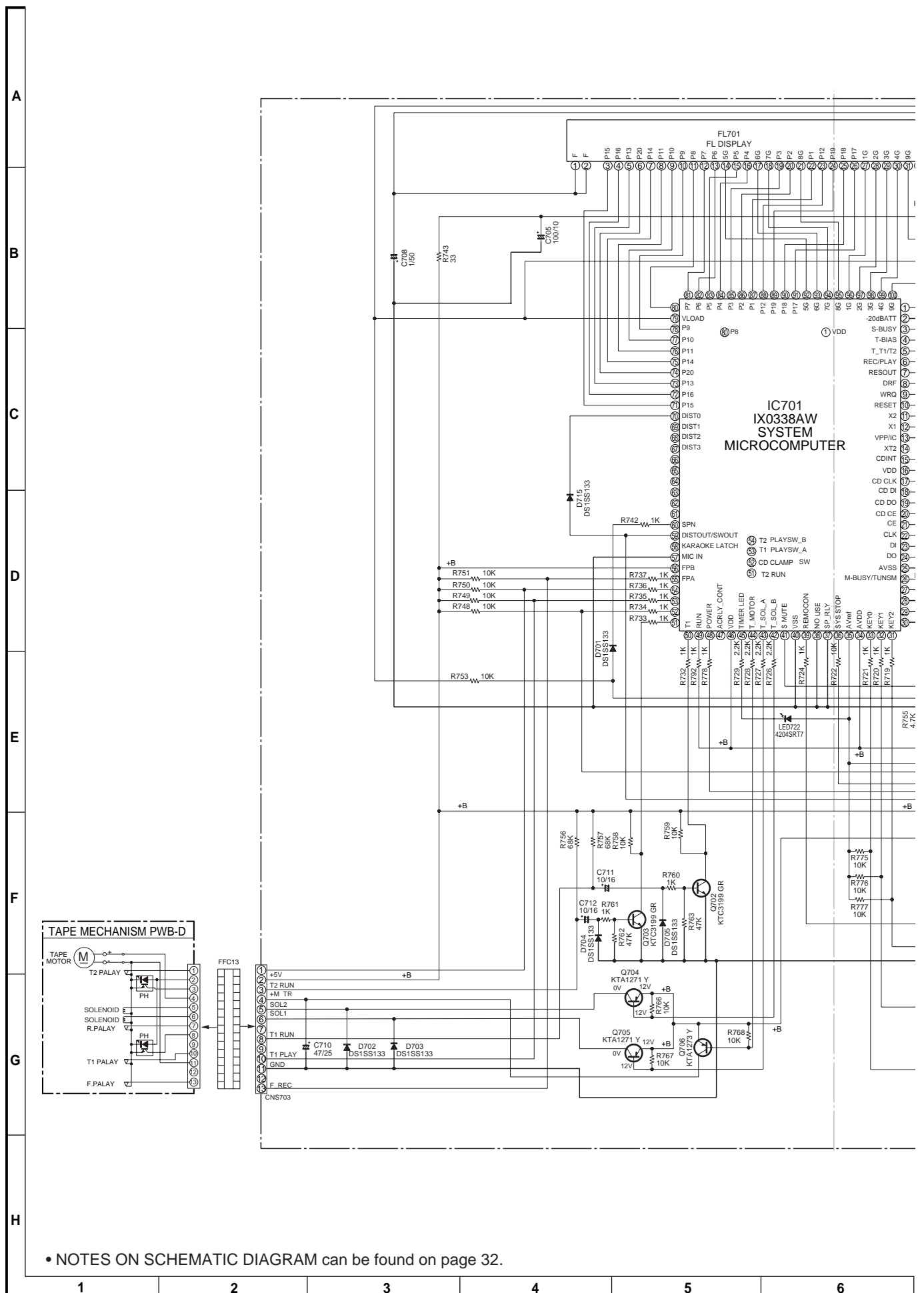


Figure 18 SCHEMATIC DIAGRAM (5/11)



- 20 -

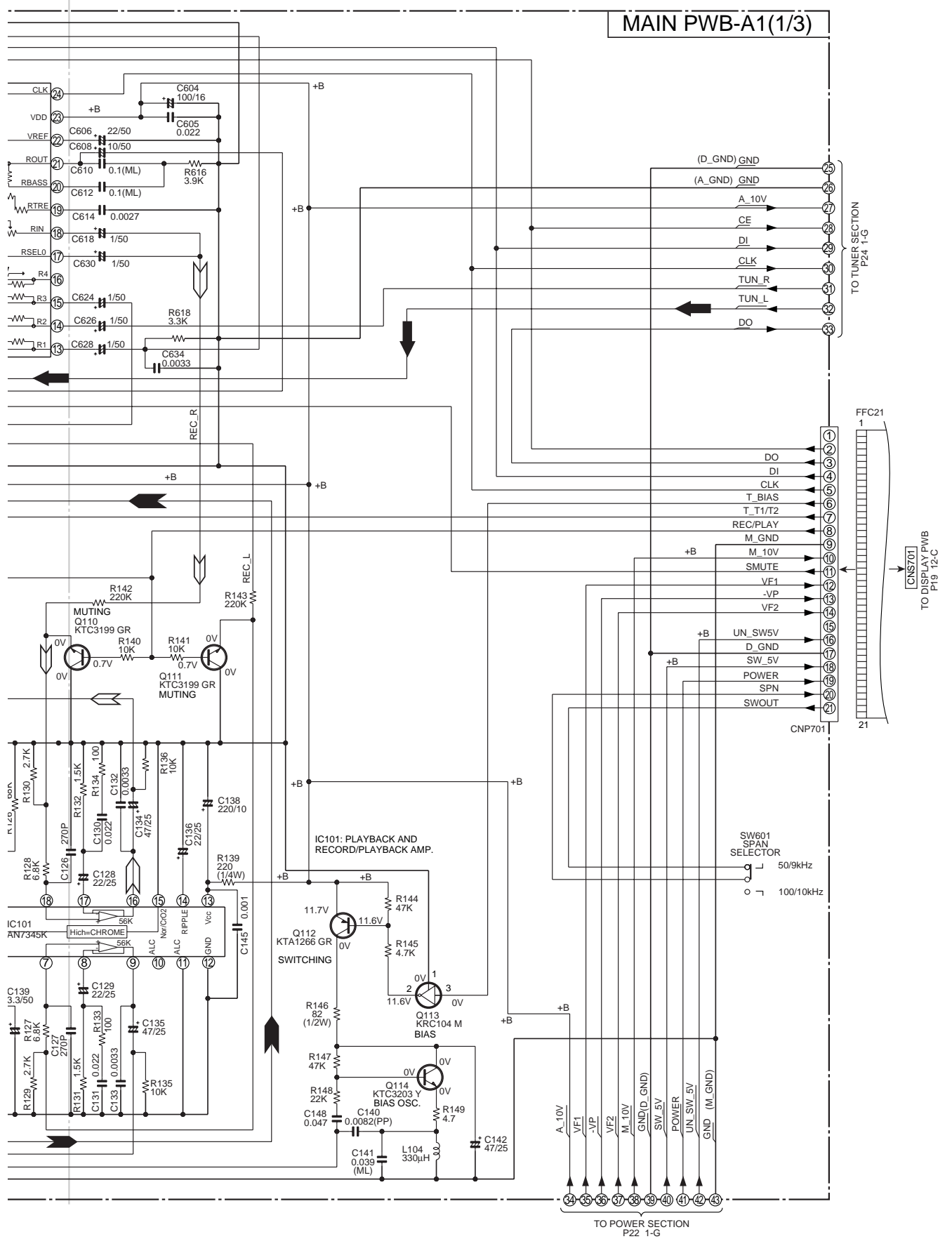


Figure 21 SCHEMATIC DIAGRAM (8/11)

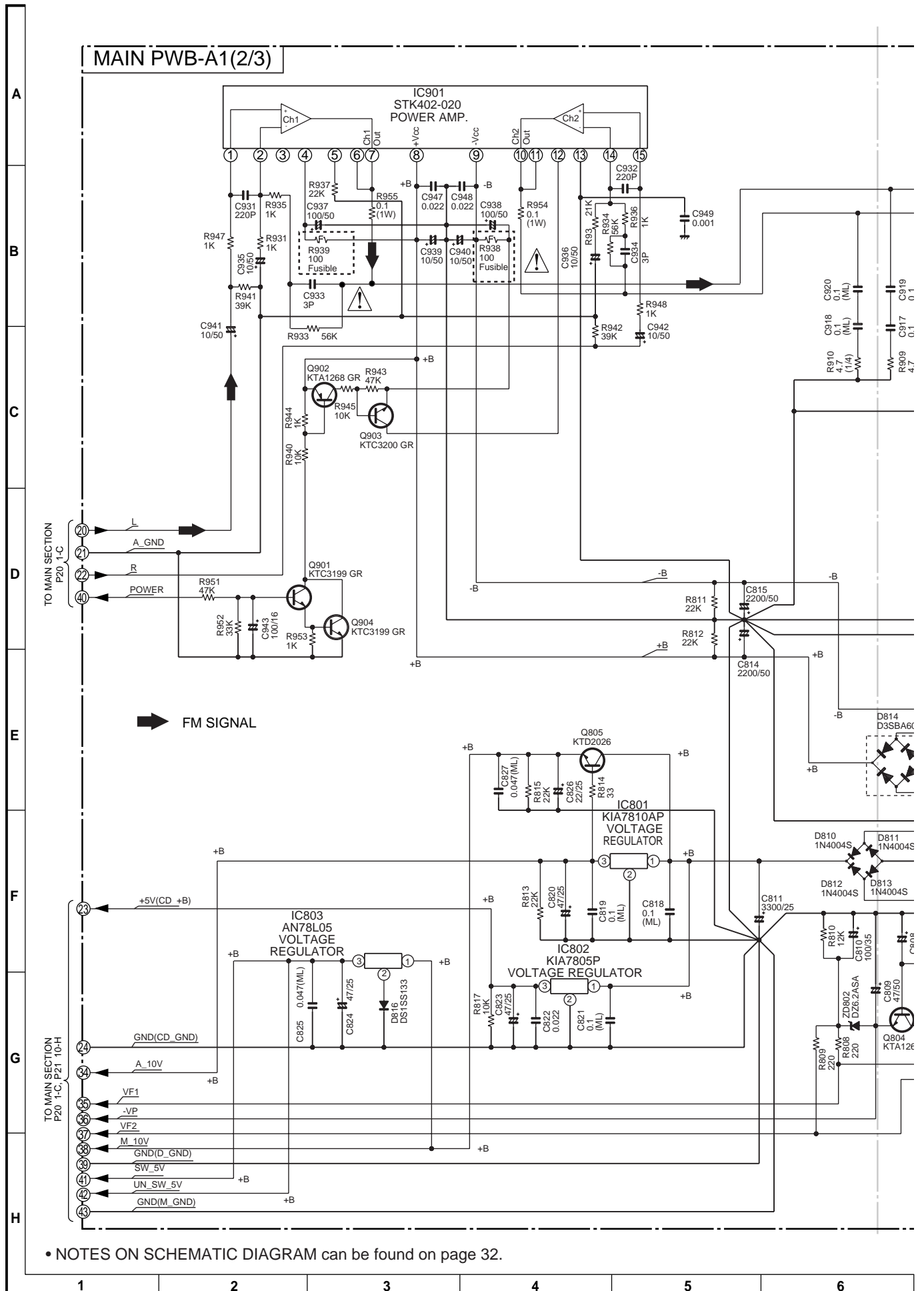


Figure 22 SCHEMATIC DIAGRAM (8/11)

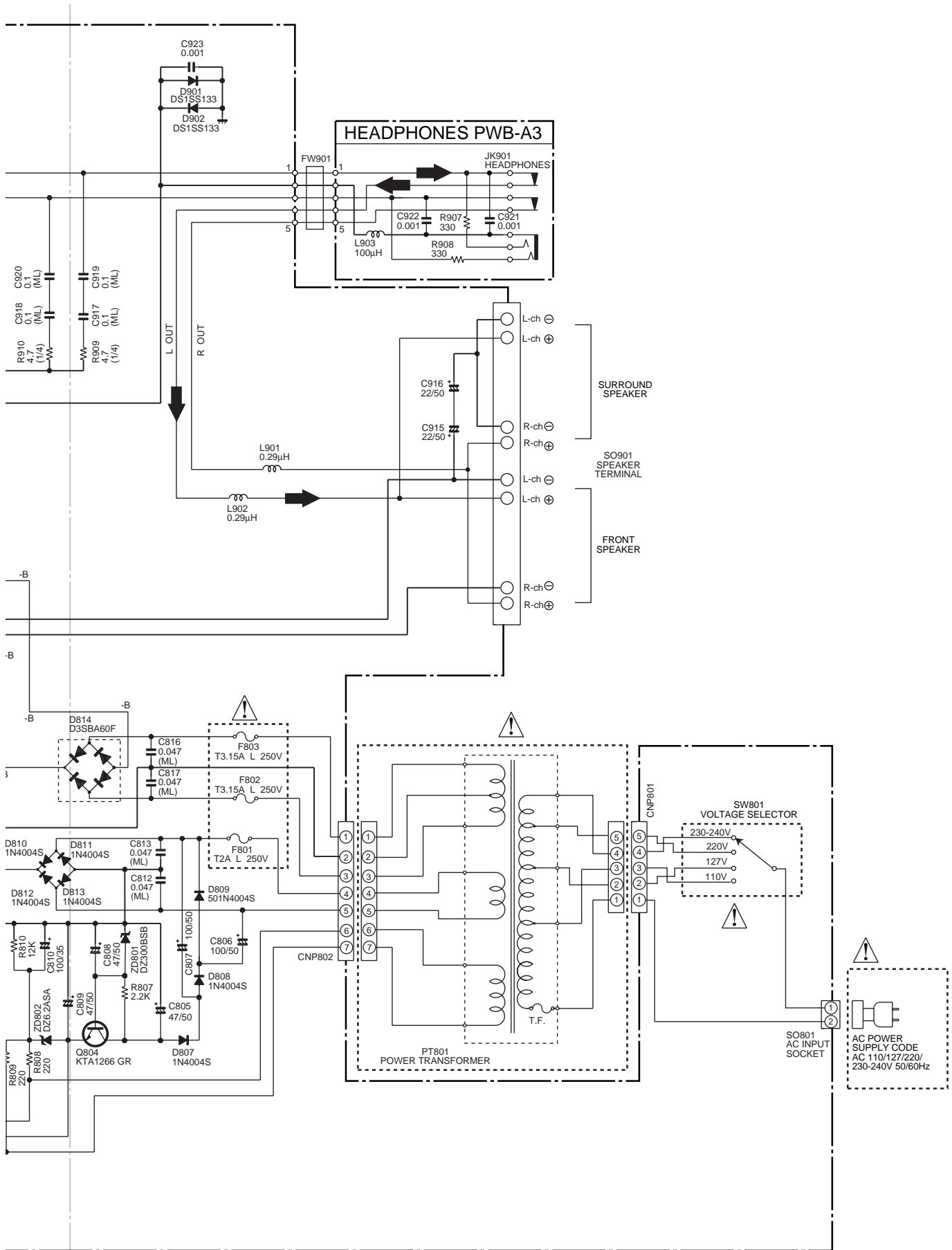


Figure 23 SCHEMATIC DIAGRAM (10/11)

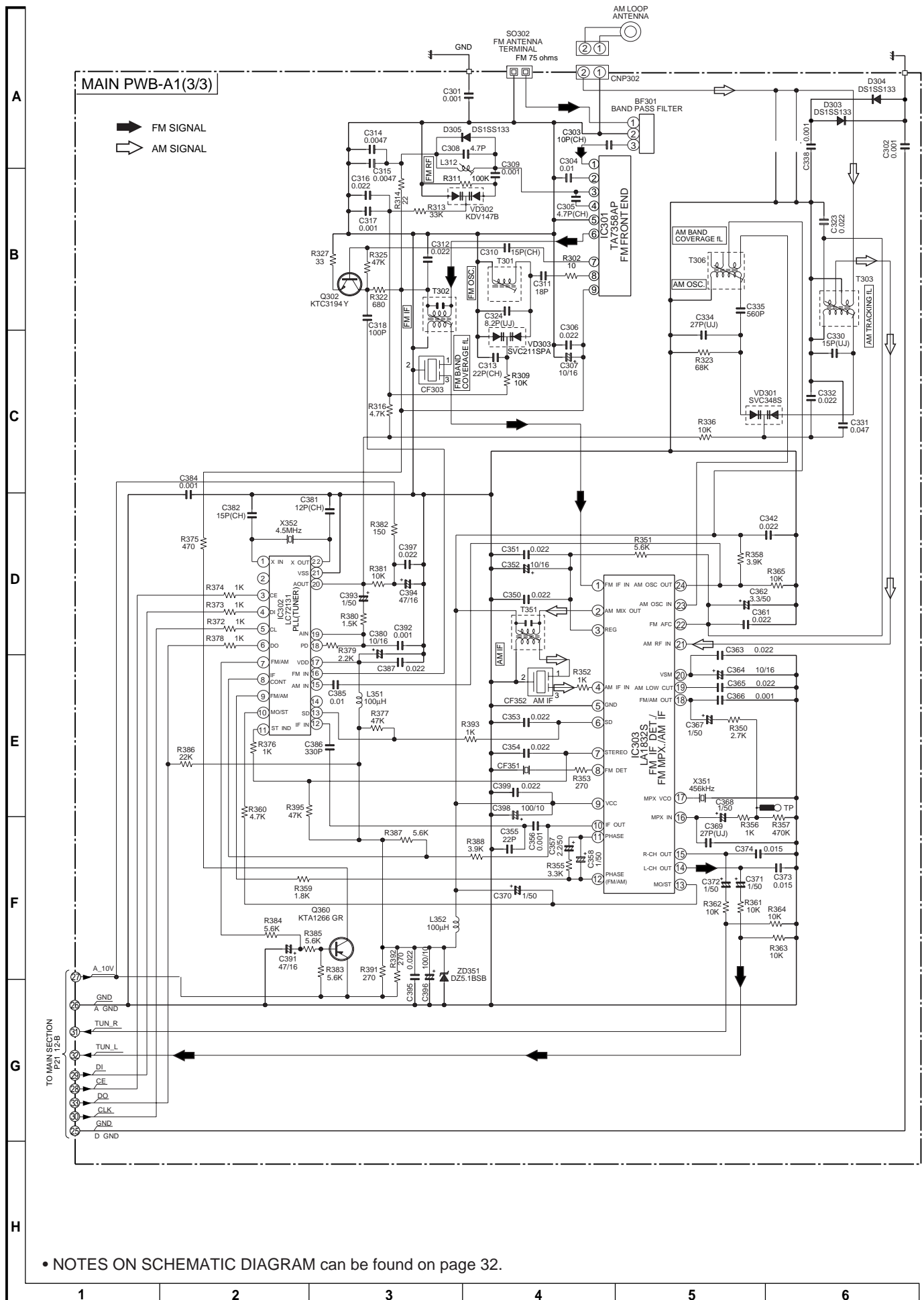


Figure 24 SCHEMATIC DIAGRAM (11/11)

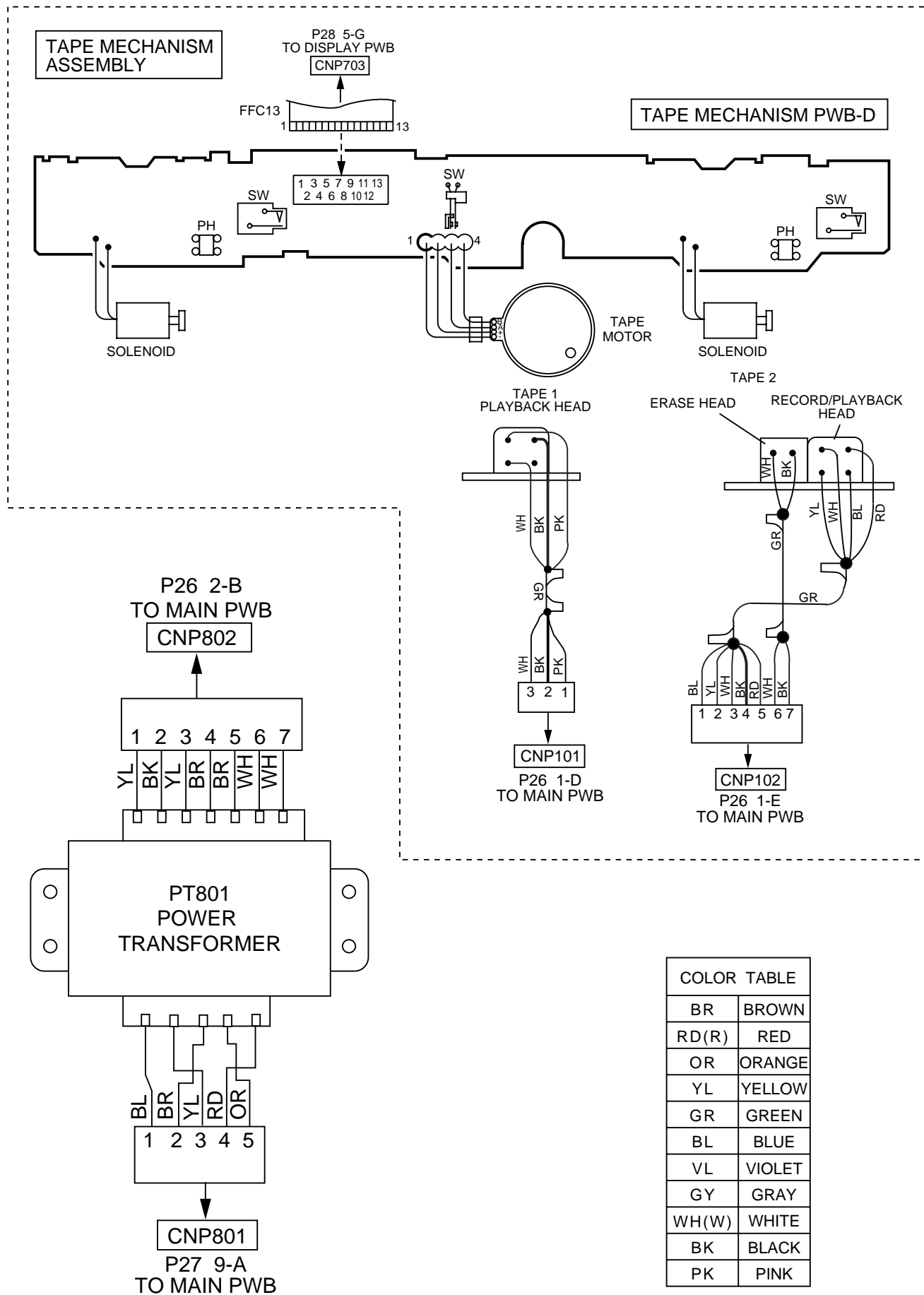


Figure 25 WIRING SIDE OF P.W.BOARD (1/7)



- 26 -

- 27 -

DISPLAY PWB-A2

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

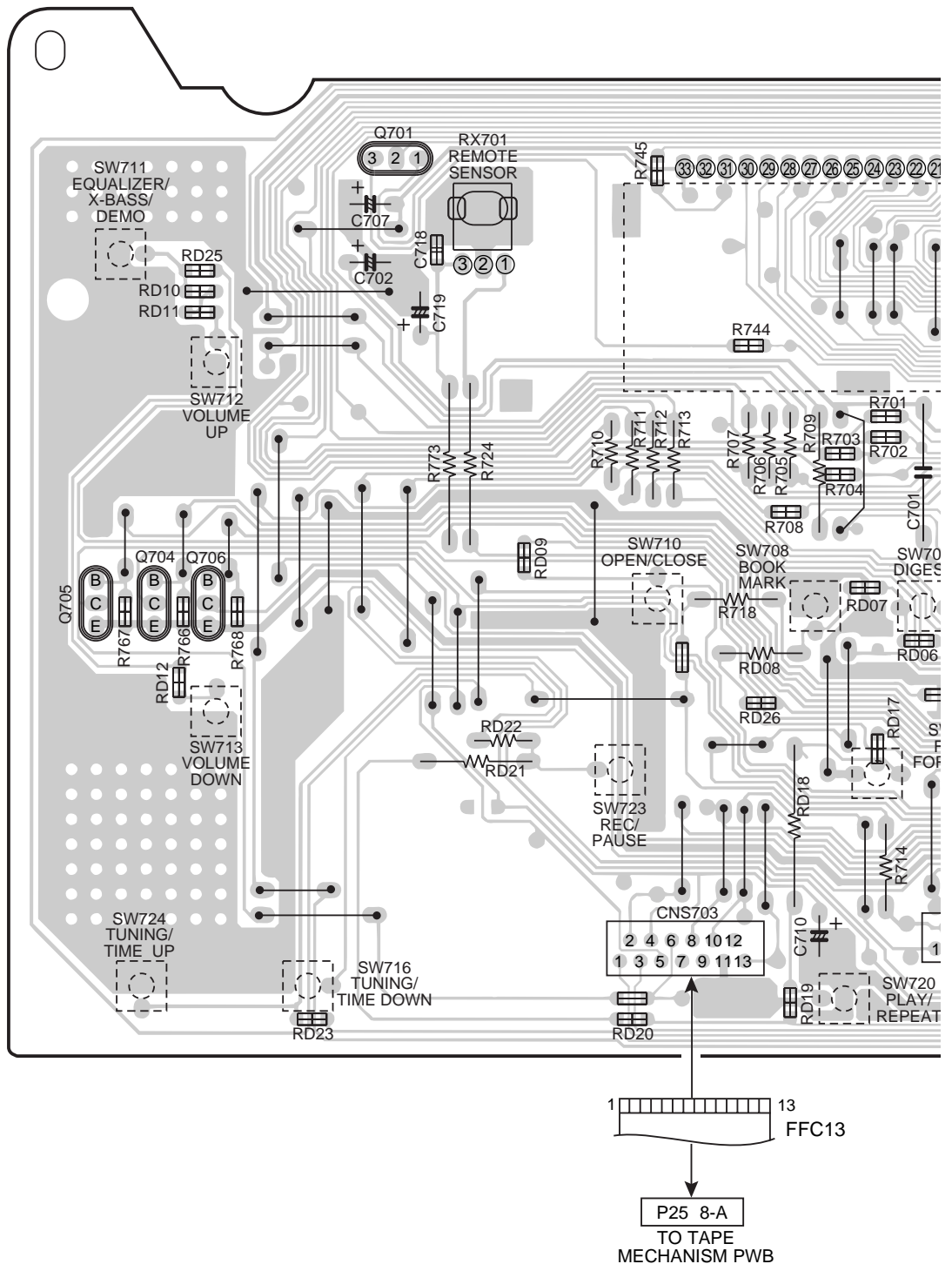


Figure 28 WIRING SIDE OF P.W.BOARD (4/7)

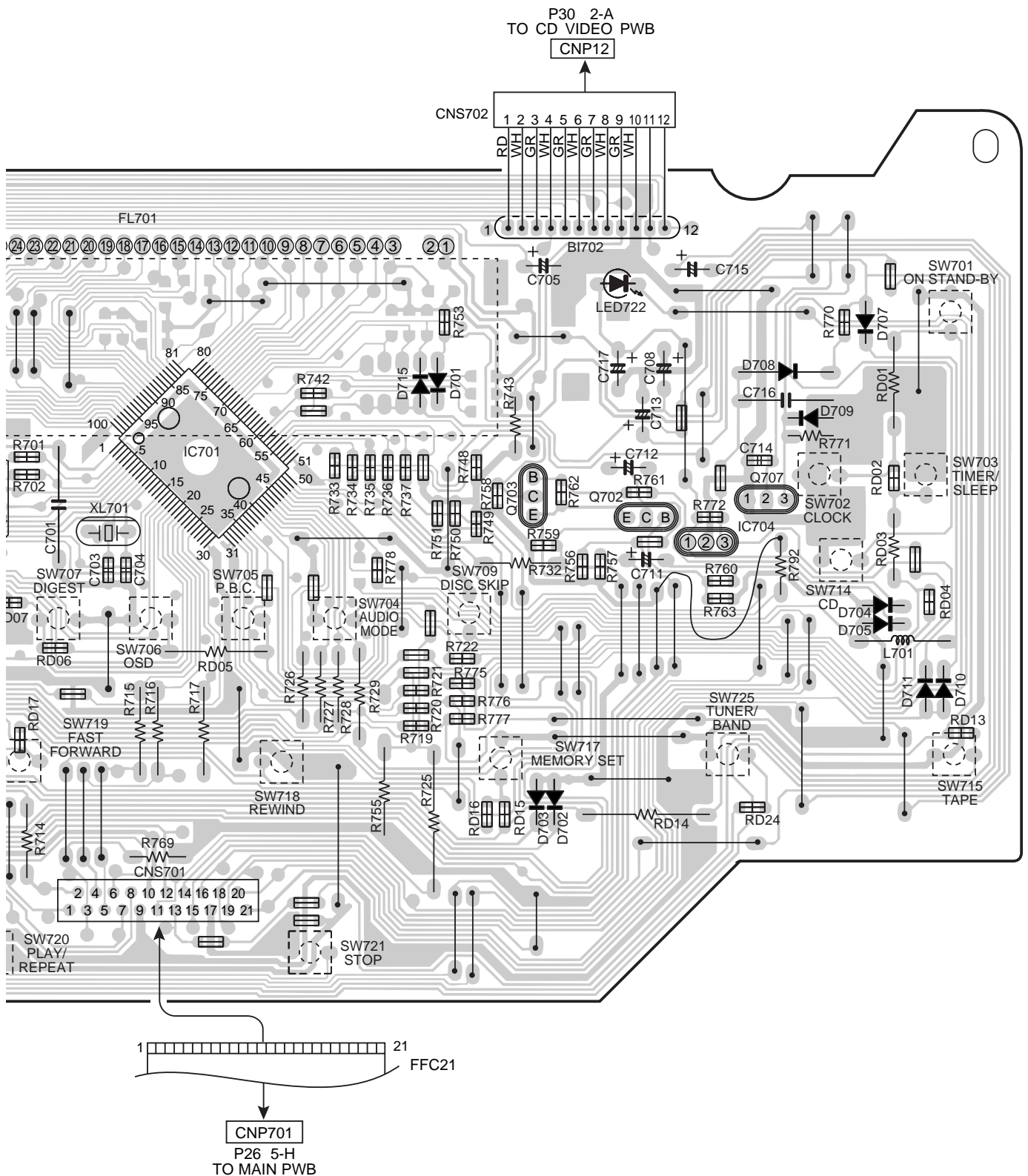
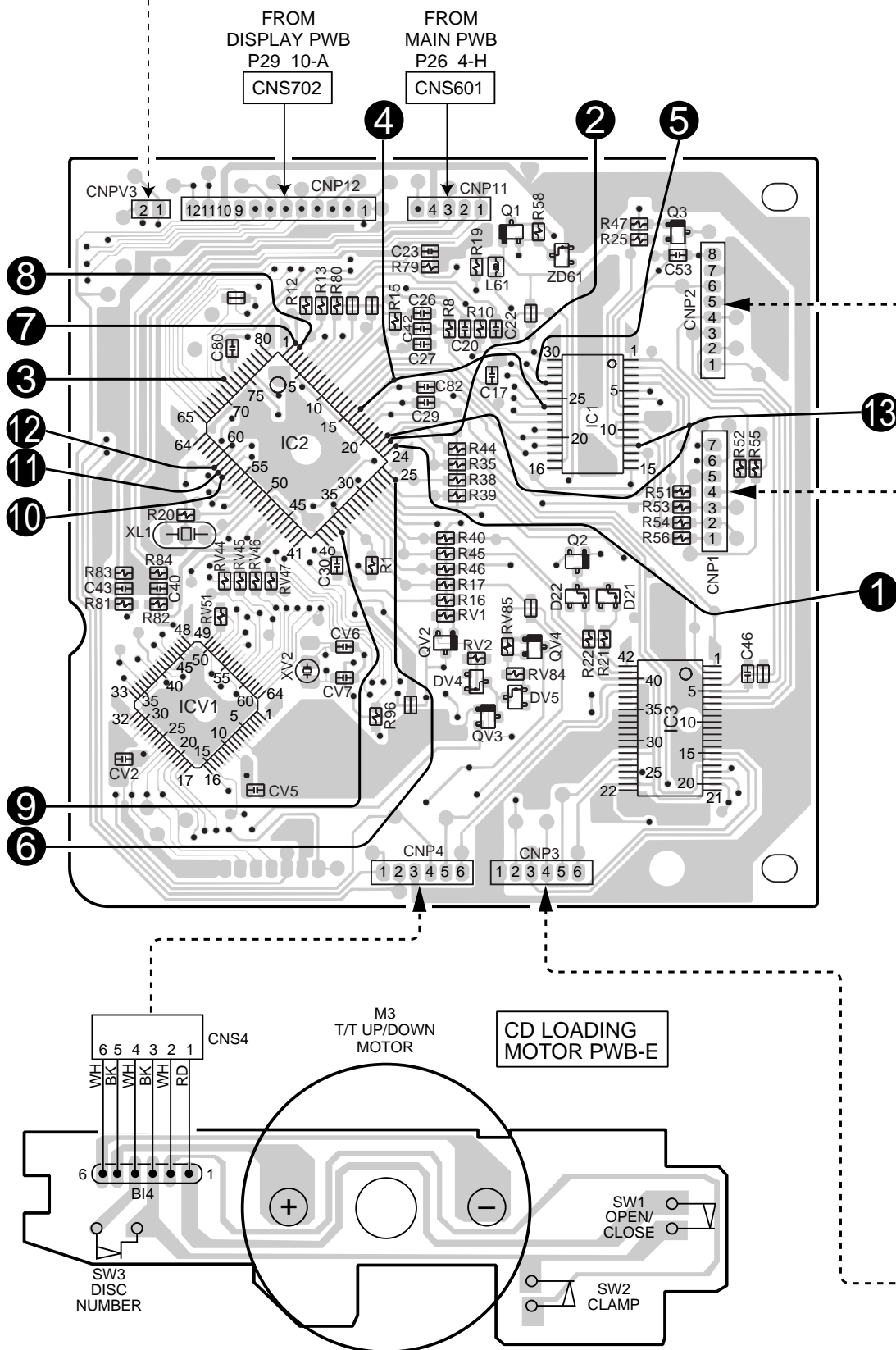


Figure 29 WIRING SIDE OF P.W.BOARD (5/7)

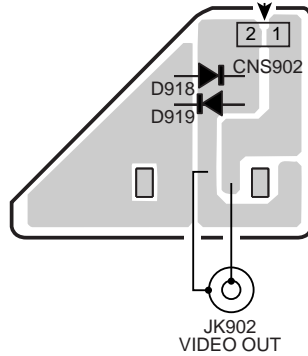
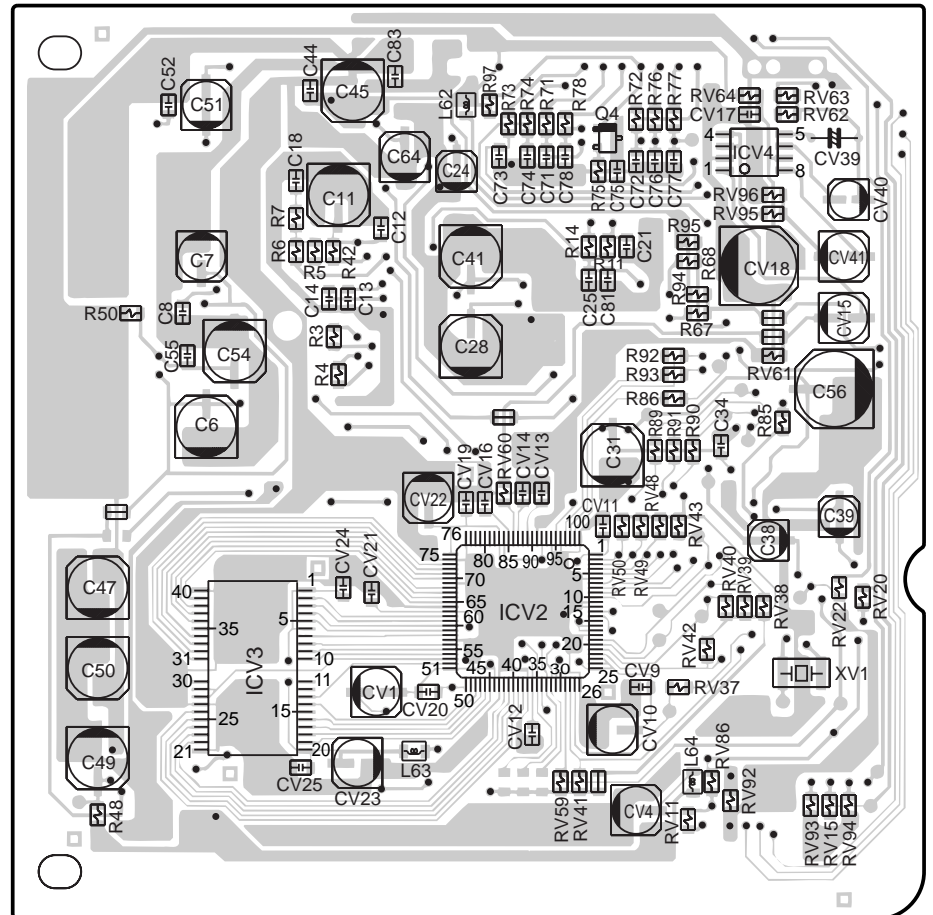
CD VIDEO PWB-C (BOTTOM VIEW)



- : Through-hole where the top and bottom patterns are connected.
- The numbers 1 to 13 are waveform numbers shown in page 33.

Figure 30 WIRING SIDE OF P.W.BOARD (6/7)

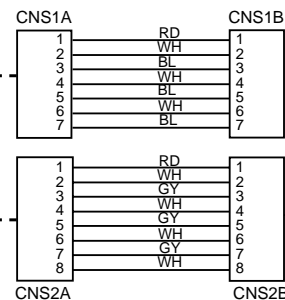
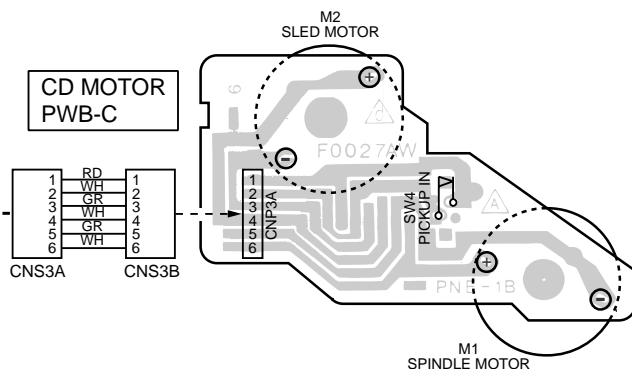
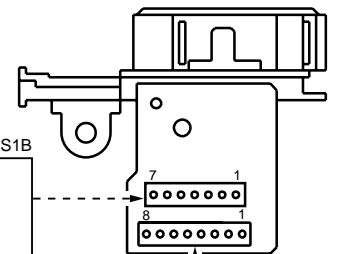
CD VIDEO PWB-C (TOP VIEW)



VIDEO OUT PWB-A4

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

PICKUP UNIT(306)



7	8	9	10	11	12
---	---	---	----	----	----

Figure 31 WIRING SIDE OF P.W.BOARD (7/7)

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.

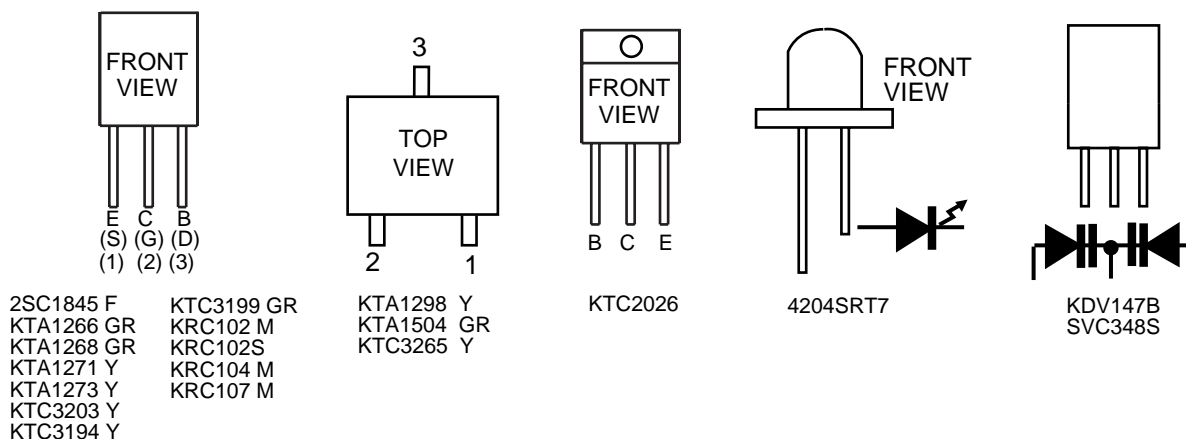
5. In the CD section, the CD is stopped.

- 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.

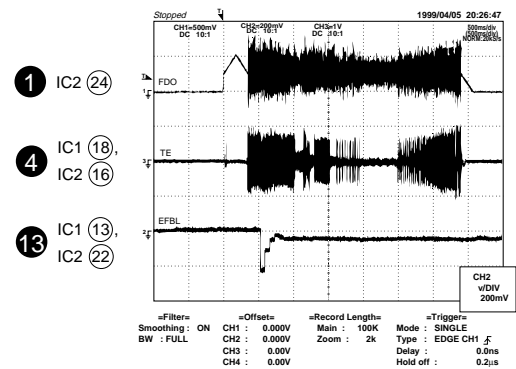
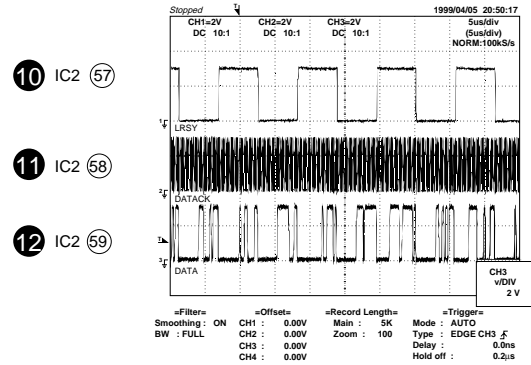
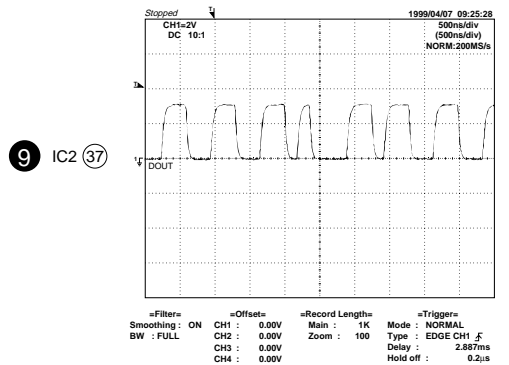
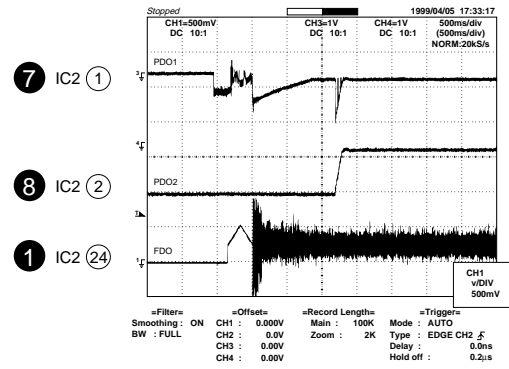
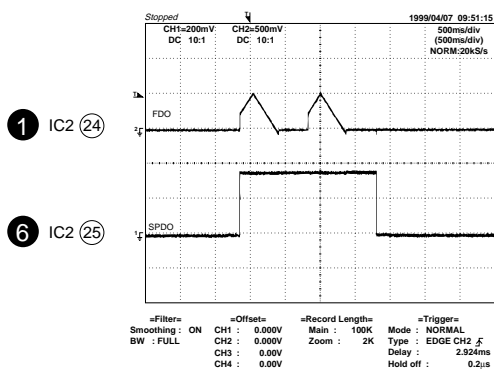
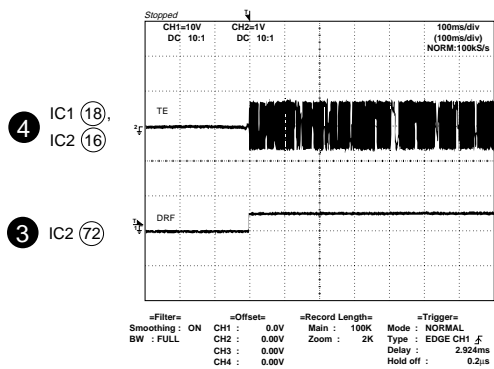
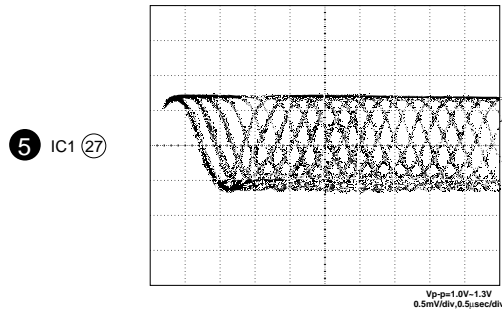
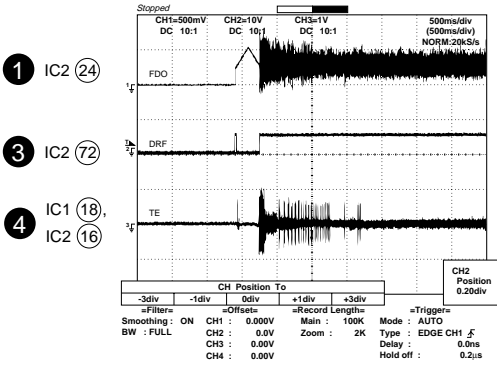
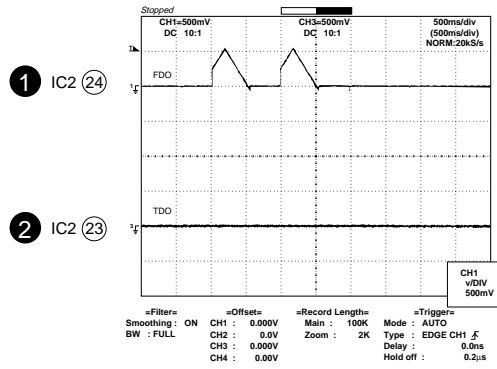
REF. NO	DESCRIPTION	POSITION
SW1	OPEN/CLOSE	ON—OFF
SW2	CLAMP	ON—OFF
SW3	DISC NUMBER	ON—OFF
SW4	PICKUP IN	ON—OFF
SW601	SPAN SELECTOR	50/9kHz-100/10kHz
SW701	ON/STAND-BY	ON—OFF
SW702	CLOCK	ON—OFF
SW703	TIMER/SLEEP	ON—OFF
SW704	AUDIO MODE	ON—OFF
SW705	P.B.C.	ON—OFF
SW706	OSD	ON—OFF
SW707	DIGEST	ON—OFF
SW708	BOOK MARK	ON—OFF
SW709	DISC SKIP	ON—OFF
SW710	OPEN/CLOSE	ON—OFF

REF. NO	DESCRIPTION	POSITION
SW711	X-BASS/DEMO	ON—OFF
SW712	VOLUME UP	ON—OFF
SW713	VOLUME DOWN	ON—OFF
SW714	CD	ON—OFF
SW715	TAPE	ON—OFF
SW716	TUNING /TIME DOWN	ON—OFF
SW717	MEMORY/SET	ON—OFF
SW718	REWIND	ON—OFF
SW719	FAST FORWARD	ON—OFF
SW720	PLAY/REPEAT	ON—OFF
SW721	STOP	ON—OFF
SW723	REC/PAUSE	ON—OFF
SW724	TUNING/TIME UP	ON—OFF
SW725	TUNER (BAND)	ON—OFF
SW801	VOLTAGE SELECTOR	110V/127V/220V/ 230-240V

TYPES OF TRANSISTOR AND LED



WAVEFORMS OF CD CIRCUIT



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

IC3	
PIN NO.	VOLTAGE
1	1.6V
2	1.6V
3	1.8V
4	2.1V
5	2.1V
6	2.1V
7	2.1V
8	0V
9	0V
10	0V
11	0V
12	0V
13	0V
14	0V
15	2.1V
16	2.1V
17	1.6V
18	4.9V
19	3.5V
20	1.6V
21	0V
22	0V
23	4.9V
24	4.9V
25	1.6V
26	2.1V
27	2.1V
28	1.9V
29	0V
30	0V
31	0V
32	0V
33	0V
34	0V
35	0V
36	4.2V
37	0V
38	2.1V
39	2.1V
40	4.9V
41	2.1V
42	2.1V

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)
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	1.0V (0V)
2	1.0V (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)
ICV3	
PIN NO.	VOLTAGE
1	3.0V
2	0V
3	0V
4	0V
5	0V
6	5.0V
7	0V
8	0V
9	0V
10	0.5V
11	0V
12	0V
13	3.3V
14	2.6V
15	0V
16	0.5V
17	0.5V
18	1.0V
19	2.7V
20	3.0V
21	0V
22	1.5V
23	1.5V
24	1.6V
25	1.5V
26	1.5V
27	0V
28	2.5V
29	2.5V
30	0V
31	0V
32	0V
33	0V
34	0V
35	0V
36	0V
37	0V
38	0V
39	0.3V
40	0V

IC901	
PIN NO.	VOLTAGE
1	0V
2	0V
3	0V
4	23.2V
5	-21.2V
6	0V
7	0V
8	24.6V
9	-24.6V
10	0V
11	0V
12	22.5V
13	0V
14	0V
15	0V

IC801	
PIN NO.	VOLTAGE
1	21.1V
2	0V
3	5V

IC802	
PIN NO.	VOLTAGE
1	21.1V
2	0V
3	10.2V

Q805	
PIN NO.	VOLTAGE
1	10.04V
2	21.1V
3	9.57V

IC704	
PIN NO.	VOLTAGE
1	5.7V
2	0.6V
3	9.9V

IC601	
PIN NO.	VOLTAGE
1	0V
2	0V
3	0V
4	4.96V
5	4.96V
6	4.96V
7	4.96V
8	4.89V
9	4.78V
10	4.78V
11	4.78V
12	4.78V
13	4.78V
14	4.78V
15	4.78V
16	4.78V
17	5.1V
18	5.5V
19	5.0V
20	4.66V
21	5.03V
22	4.97V
23	10.0V
24	0V

IC701			
PIN NO.	VOLTAGE	PIN NO.	VOLTAGE
1	4.78V	51	4.29V
2	0V	52	0V
3	5.0V	53	4.81V
4	0V	54	4.81V
5	4.69V	55	4.81V
6	4.74V	56	4.81V
7	4.75V	57	0V
8	0V	58	0V
9	4.85V	59	27.8V
10	4.30V	60	-27.8V
11	2.25V	61	0V
12	1.16V	62	0V
13	0V	63	0V
14	0V	64	0V
15	4.85V	65	0V
16	4.78V	66	0V
17	4.67V	67	-27.7V
18	0V	68	-27.7V
19	4.69V	69	-27.1V
20	0V	70	-28.2V
21	0V	71	-21.7V
22	0V	72	-18.6V
23	0V	73	-12.9V
24	4.82V	74	-24.4V
25	0V	75	-25.9V
26	0.3V	76	-15.7V
27	0V	77	-22.2V
28	0V	78	-22.3V
29	0V	79	-27.8V
30	0V	80	-18.6V
31	4.81V	81	-12.9V
32	4.81V	82	-24.4V
33	4.81V	83	-24.4V
34	4.9V	84	-27.1V
35	5.0V	85	-27.1V
36	4.9V	86	-24.4V
37	0V	87	-24.4V
38	0V	88	-27.1V
39	5.0V	89	-27.1V
40	0V	90	-24.4V
41	1.7V	91	-27.1V
42	9.45V	92	-24.4V
43	9.45V	93	-27.1V
44	9.45V	94	-24.4V
45	3.8V	95	-24.4V
46	4.89V	96	-24.4V
47	0V	97	-24.4V
48	4.89V	98	-24.4V
49	4.79V	99	-24.4V
50	4.78V	100	-24.4V

IC303	
PIN NO.	VOLTAGE
1	2.12V
2	4.78V
3	2.12V
4	2.11V
5	0V
6	4.65V
7	4.65V
8	3.02V
9	4.78V
10	4.08V
11	1.63V
12	1.13V
13	2.08V
14	1.31V
15	1.29V
16	2.07V
17	0V
18	1.43V
19	1.99V
20	1.44V
21	2.08V
22	2.08V
23	4.48V
24	3.35V

IC302	
PIN NO.	VOLTAGE
1	2.4V(2.4V)
2	0V(0V)
3	0V(0V)
4	0V(0V)
5	4.6V(4.7V)
6	0.8V(0.9V)
7	0.1V(9.9V)
8	4.2V(0V)
9	0V(0V)
10	0V(0V)
11	4.6V(4.9V)
12	2.2V(0V)
13	4.6V(4.9V)
14	0V(0V)
15	0V(2.4V)
16	2.3V(0V)
17	4.6V(4.9V)
18	0.8V(4.9V)
19	0.8V(4.9V)
20	1.1V(0V)
21	0V(0V)
22	2.5V(3.0V)

ICV2			
PIN NO.	VOLTAGE	PIN NO.	VOLTAGE
1	3.3V	51	3.3V
2	3.3V	52	3.3V
3	3.3V	53	2.5V
4	3.3V	54	0.5V
5	3.3V	55	0V
6	0V	56	0V
7	3.3V	57	0V
8	3.3V	58	0V
9	3.3V	59	0V
10	3.3V	60	0V
11	0V	61	0V
12	0V	62	0V
13	1.3V	63	3.3V
14	1.5V	64	0V
15	3.3V	65	3.3V
16	3.3V	66	0V
17	3.3V	67	0V
18	0V	68	0V
19	0.5V	69	0V
20	5.0V	70	0V
21	5.0V	71	0V
22	1.3V	72	0V
23	3.3V	73	0V
24	2.2V	74	0V
25	3.5V	75	3.3V
26	0V	76	0V
27	5.0V	77	1.5V
28	1.0V	78	0V
29	0V	79	0V
30	0V	80	0V
31	2.5V	81	3.3V
32	2.0V	82	2.2V
33	2.5V	83	3.3V
34	0V	84	2.3V
35	0V	85	1.0V
36	3.3V	86	1.5V
37	0V	87	0V
38	1.5V	88	0V
39	1.5V	89	0V
40	1.5V	90	0V
41	1.5V	91	0V
42	1.5V	92	2.3V
43	0V	93	0V
44	2.2V	94	0V
45	2.5V	95	3.0V
46	1.0V	96	0V
47	0.3V	97	2.5V
48	0.5V	98	2.5V
49	2.6V	99	1.5V
50	0V	100	0V

ICV1			
PIN NO.	VOLTAGE	PIN NO.	VOLTAGE
1	0V	33	0V
2	0V	34	5.0V
3	5.0V	35	5.0V
4	0V	36	5.0V
5	3.0V	37	0V
6	1.5V	38	5.0V
7	0V	39	0V
8	0V	40	0V
9	0V	41	3.0V
10	5.0V	42	0V
11	0.1V	43	0V
12	0V	44	5.0V
13	0.1V	45	0V
14	0V	46	0V
15	5.0V	47	0V
16	0V	48	0V
17	0V	49	0V
18	0V	50	0V
19	0V	51	5.0V
20	0.5V	52	0V
21	0V	53	5.0V
22	0V	54	3.0V
23	0V	55	0.1V
24	5.0V	56	1.2V
25	0V	57	3.3V
26	0V	58	3.3V
27	0V	59	3.3V
28	0V	60	3.3V
29	0V	61	3.3V
30	0V	62	0V
31	0V	63	3.3V
32	0V	64	2.8V

SHARP PARTS GUIDE

VIDEO CD MINI SYSTEM

MODEL CD-BP1450V

CD-BP1450V Video CD Mini System consisting of CD-BP1450V (main unit), CP-BK1450 (front speakers) and GBOXS0043AWM1 (surround speakers).

"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" $\pm 5\%$, "K" $\pm 10\%$, "M" $\pm 20\%$, "N" $\pm 30\%$,
 "C" ± 0.25 pF, "D" ± 0.5 pF, "Z" +80-20%.)

If there are no indications for the electrolytic capacitors, error is $\pm 20\%$.

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" $\pm 5\%$, "F" $\pm 1\%$, "D" $\pm 0.5\%$.)

If there are no indications for other parts, the resistors are $\pm 5\%$ 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-BP1450V

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
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CD-BP1450V

INTEGRATED CIRCUITS

IC1	VHILA9235M/-1	J	AQ	Servo Amp.,LA9235M
IC2	VHILC78636E-1	J		Servo Signal Control,LC78636E
IC3	VHIM63001FP-1	J	AX	Focus/Tracking/Spin/Sled Driver, M63001FP
IC101	VHIAN7345K/-1	J	AM	Playback and Record/Playback 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
IC601	VHILC75341/-1	J	AM	Audio Processor,LC75341
IC701	RH-IX0338AWZZ	J		System Microcomputer, IX0338AW
IC704	VHIKIA7042AP1	J	AC	Reset,KIA7042AP
IC801	VHIKIA7810AP1	J	AF	Voltage Regulator,KIA7810AP
IC802	VHIKIA7805P-1	J	AF	Voltage Regulator,KIA7805P
IC803	VHIAN78L05/-1	J	AE	Constant Voltage Regulator, AN78L05
IC901	VHISTK40202-1	J	AW	Power AMP.,STK40202
ICV1	RH-IX0352AWZZ	J		MPEG Controller,IX0352
ICV2	VHID61012GC-1	J	BP	MPEG Decoder,D61012GC
ICV3	VHISDM4260C-1	J	AY	DRAM,SDM4260C
ICV4	VHINJM2267M-1	J	AH	Video Operation Amp., NJM2267M

TRANSISTORS

Q1	VSKTC3265Y/-1	J	AC	Silicon,NPN,KTC3265 Y
Q2	VSKRC102S///-1	J	AB	Digital,NPN,KRC102 S
Q3	VSKTA1504GR-1	J	AB	Silicon,PNP,KTA1504 GR
Q4	VSKTA1504GR-1	J	AB	Silicon,PNP,KTA1504 GR
Q101	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q102,103	VSKRC104M///-1	J	AC	Digital,NPN,KRC104 M
Q104~107	VS2SC1845F/-1	J	AC	Silicon,NPN,2SC1845 F
Q108~111	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q112	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q113	VSKRC104M///-1	J	AC	Digital,NPN,KRC104 M
Q114	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
Q601,602	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q701	VSKRC107M///-1	J	AC	Digital,NPN,KRC107 M
Q702,703	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q704,705	VSKTA1271Y/-1	J	AC	Silicon,PNP,KTA1271 Y
Q706	VSKTA1273Y/-1	J	AE	Silicon,PNP,KTA1273 Y
Q707	VSKRC102M///-1	J	AC	Digital,NPN,KRC102 M
Q804	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q805	VSKTC2026///-1	J	AF	Silicon,NPN,KTC2026
Q901	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q902	VSKTA1268GR-1	J	AC	Silicon,PNP,KTA1268 GR
Q903	VSKTC3200GR-1	J	AC	Silicon,NPN,KTC3200 GR
Q904	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
QV2	VSKTA1298Y/-1	J	AC	Silicon,PNP,KTA1298 Y
QV3	VSKRC104S///-1	J	AC	Digital,NPN,KRC104 S
QV4	VSKTA1298Y/-1	J	AC	Silicon,PNP,KTA1298 Y

DIODES

D21,22	VHDKDS193///-1	J	AC	Silicon,KDS193
D301,302	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D303~305	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D701~705	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D707~711	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D715	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D807~813	VHD1N4004S/-1	J	AB	Silicon,1N4004S
D814	VHDD3SBA60F-1	J	AG	Silicon,D3SBA60F
D816	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D901,902	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D918,919	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
DV4,5	VHDKDS193///-1	J	AC	Silicon,KDS193
LED722	VHP4204SRT7-1	J	AD	LED,Red,4204SRT7
ZD61	VHEZ02W3R9Z-1	J		Zener,3.9V,Z02W3.9Z
ZD351	VHEDZ5R1BSB-1	J	AC	Zener,5.1V,DZ5.1BSB
ZD801	VHEDZ300BSB-1	J	AB	Zener,30V,DZ30BSB
ZD802	VHEDZ6R2BSA-1	J	AB	Zener,6.2V,DZ6.2BSA

FILTERS

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

TRANSFORMERS

△ PT801	RTRNP0301AWZZ	J		Power
T301	RCILB0065AWZZ	J	AC	FM OSC.
T302	RCILIO017AWZZ	J	AB	FM IF
T303	RCILA0052AWZZ	J	AE	AM Tracking
T306	RCILB0058AWZZ	J	AC	AM OSC.
T351	RCILIO019AWZZ	J	AD	AM IF

COILS

L61	RCILC0006AWZZ	J	AH	0.82 μH,Choke
L62	RCILC0007AWZZ	J		2.2 μH,Choke
L63,64	RCILC0006AWZZ	J	AH	0.82 μF,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
L903	VP-DH101K0000	J	AB	100 μH,Choke

VARIABLE CAPACITORS

VD301	VHCSVC348S/-1	J	AK	Variable Capacitance,SVC348S
VD302,303	VHCKDV147B/-1	J	AH	Variable Capacitance,KDV147B

VIBRATORS

X351	92LCRSTL1425A	J	AF	Crystal,456 kHz
X352	RCRSP0002AWZZ	J	AH	Crystal,4.5 MHz
XL1	92LCRSTL1746A	J	AC	Crystal,16.93 MHz
XL701	RCRSP0003AWZZ	J	AH	Crysta,4.1943 MHz
XV1	RCRM-0201AFZZ	J	AD	Ceramic,4.19 MHz
XV2	RCRSP0013AWZZ	J	AG	Crystal,27 MHz

CAPACITORS

C6	VCEAPS107AF0J	J	AC	100 μF,10V,Electrolytic
C7	VCEAPS106AF1C	J	AB	10 μF,16V,Electrolytic
C8	VCKYTV1EF223Z	J	AA	0.022 μF,25V
C11	VCEAPS476AF0J	J	AC	47 μF,6.3V,Electrolytic
C12	VCKYTV1EF223Z	J	AA	0.022 μF,25V
C13	VCKYTV1HB103K	J	AA	0.01 μF,50V
C14	VCKYTV1CB334K	J	AC	0.33 μF,16V
C17	VCKYTV1HB472K	J	AA	0.0047 μF,50V
C18	VCCCTV1HH3R0C	J	AA	3 pF (CH),50V
C20	VCKYTV1EB104K	J	AA	0.1 μF,25V
C21	VCKYTV1EB104K	J	AA	0.1 μF,25V
C22	VCKYTV1HB101K	J	AA	100 pF,50V
C23	VCKYTV1HB473K	J	AA	0.047 μF,50V
C24	VCEAPS225AF1H	J	AB	2.2 μF,50V,Electrolytic
C25	VCKYTV1EF223Z	J	AA	0.022 μF,25V
C26	VCKYTV1HB473K	J	AA	0.047 μF,50V
C27	VCKYTV1EB104K	J	AA	0.1 μF,25V
C28	VCEAPS476AF1A	J	AD	47 μF,10V,Electrolytic
C29,30	VCKYTV1EF223Z	J	AA	0.022 μF,25V
C31	VCEAPS107AF0J	J	AC	100 μF,6.3V,Electrolytic
C34	VCKYTV1EF223Z	J	AA	0.022 μF,25V
C38,39	VCEAPS106AF1C	J	AB	10 μF,16V,Electrolytic
C40	VCKYTV1HB152K	J	AA	0.0015 μF,50V
C41	VCEAPS107AF0J	J	AC	100 μF,6.3V,Electrolytic
C42	VCCCTV1HH680J	J	AA	68 pF (CH),50V
C43	VCKYTV1HB152K	J	AA	0.0015 μF,50V
C44	VCKYTV1EF223Z	J	AA	0.022 μF,25V
C45	VCEAPS107AF0J	J	AC	100 μF,6.3V,Electrolytic
C46	VCKYTV1EF223Z	J	AA	0.022 μF,25V
C47	VCEAPS107AF0J	J	AC	100 μF,6.3V,Electrolytic
C49,50	VCEAPS107AF0J	J	AC	100 μF,6.3V,Electrolytic
C51	VCEAPS476AF0J	J	AC	47 μF,6.3V,Electrolytic
C52	VCKYTV1HB103K	J	AA	0.01 μF,50V
C53	VCKYTV1HB102K	J	AA	0.001 μF,50V
C54	VCEAPS476AF1A	J	AD	47 μF,10V,Electrolytic
C55	VCKYTV1HB103K	J	AA	0.01 μF,50V
C56	VCEAPS337AF0J	J	AC	330 μF,6.3V,Electrolytic
C64	VCEAPS476AF0J	J	AC	47 μF,6.3V,Electrolytic

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION	NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
C71	VCKYTV1HB101K	J	AA	100 pF,50V	C392	VCKYMN1HB102K	J	AA	0.001 μF,50V
C72	VCKYTV1HB103K	J	AA	0.01 μF,50V	C393	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic
C73~78	VCKYTV1HB101K	J	AA	100 pF,50V	C394	VCEAZA1CW476M	J	AB	47 μF,16V,Electrolytic
C80	VCKYTV1EB104K	J	AA	0.1 μF,25V	C395	VCTYMN1EF223Z	J	AA	0.022 μF,25V
C81	VCKYTV1EF223Z	J	AA	0.022 μF,25V	C396	VCEAZA1AW107M	J	AB	100 μF,10V,Electrolytic
C82	VCKYTV1EF223Z	J	AA	0.022 μF,25V	C397	VCTYMN1EF223Z	J	AA	0.022 μF,25V
C83	VCKYTV1EF223Z	J	AA	0.022 μF,25V	C398	VCEAZA1AW107M	J	AB	100 μF,10V,Electrolytic
C101	VCKZPA1HF473Z	J	AA	0.047 μF,50V	C399	VCTYMN1EF223Z	J	AA	0.022 μF,25V
C102,103	VCKYMN1HB102K	J	AA	0.001 μF,50V	C601,602	VCKYMN1HB102K	J	AA	0.001 μF,50V
C104,105	VCKYMN1HB181K	J	AA	180 pF,50V	C603	VCEAZA1EW226M	J	AB	22 μF,25V,Electrolytic
C106,107	VCKYMN1HB102K	J	AA	0.001 μF,50V	C604	VCEAZA1CW107M	J	AC	100 μF,16V,Electrolytic
C108	VCEAZA1CW107M	J	AC	100 μF,16V,Electrolytic	C605	VCKZPA1HF223Z	J	AA	0.022 μF,50V
C112~115	VCKYMN1HB331K	J	AA	330 pF,50V	C606	VCEAZA1HW226M	J	AB	22 μF,50V,Electrolytic
C116,117	VCEAZA1EW476M	J	AB	100 μF,25V,Electrolytic	C607,608	VCEAZA1HW106M	J	AB	10 μF,50V,Electrolytic
C118,119	VCTYPA1EX333K	J	AA	0.033 μF,25V	C609~612	VCQYKA1HM104K	J	AB	0.1 μF,50V,Myar
C120,121	VCKYMN1HB561K	J	AA	560 pF,50V	C613,614	VCTYPA1CX272K	J	AA	0.0027 μF,16V
C122,123	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic	C617,618	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic
C126,127	VCKYMN1HB271K	J	AA	270 pF,50V	C623~630	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic
C128,129	VCEAZA1EW226M	J	AB	22 μF,25V,Electrolytic	C633,634	VCTYMN1CX332K	J	AA	0.0033 μF,16V
C130,131	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C701	VCTYBT1EF223Z	J	AA	0.022 μF,25V
C132,133	VCTYMN1CX332K	J	AA	0.0033 μF,16V	C702	RC-EZD227AF1A	J	AC	220 μF,10V,Electrolytic
C134,135	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic	C703	VCCSMN1HL150J	J	AA	15 pF,50V
C136	VCEAZA1EW226M	J	AB	22 μF,25V,Electrolytic	C704	VCCSMN1HL180J	J	AA	18 pF,50V
C137	VCTYMN1EF223Z	J	AA	0.023 μF,25V	C705	VCEAZA1AW107M	J	AB	100 μF,10V,Electrolytic
C138	VCEAZA1AW227M	J	AC	220 μF,10V,Electrolytic	C707,708	RC-EZD105AF1H	J	AB	1 μF,50V,Electrolytic
C139	VCEAE1HW335M	J	AB	3.3 μF,50V,Electrolytic	C710	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
C140	VCQPKA2AA822J	J	AA	0.0082 μF,100V,Polypropylene	C711,712	VCEAZA1CW106M	J	AC	10 μF,16V,Electrolytic
C141	VCQYKA1HM393K	J	AB	0.039 μF,50V,Myar	C713	RC-EZD104AF1H	J	AB	0.1 μF,50V,Electrolytic
C142	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic	C714	VCTYMN1CY103N	J	AA	0.01 μF,16V
C143,144	VCTYMN1CX222K	J	AA	0.0022 μF,16V	C715	VCEAZA1HW335M	J	AB	3.3 μF,50V,Electrolytic
C145	VCKYMN1HB102K	J	AA	0.001 μF,50V	C716	VCTYBT1EF223Z	J	AA	0.022 μF,25V
C148	VCKZPA1HF473Z	J	AA	0.047 μF,50V	C717	RC-EZD106AF1H	J	AB	10 μF,50V,Electrolytic
C301,302	VCKYMN1HB102K	J	AA	0.001 μF,50V	C718	VCTYMN1EF223Z	J	AA	0.022 μF,25V
C303	VCCCMN1HH100J	J	AA	10 pF (CH),50V	C719	RC-EZD476AF1C	J	AC	47 μF,16V,Electrolytic
C304	VCTYMN1CY103N	J	AA	0.01 μF,16V	C805	VCEAZA1HW476M	J	AB	47 μF,50V,Electrolytic
C305	VCCCMN1HH47C	J	AA	4.7 pF (CH),50V	C806,807	VCEAZA1HW107M	J	AC	100 μF,50V,Electrolytic
C306	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C808,809	VCEAZA1HW476M	J	AB	47 μF,50V,Electrolytic
C307	VCEAZA1CW106M	J	AC	10 μF,16V,Electrolytic	C810	VCEAZA1VW107M	J	AC	100 μF,35V,Electrolytic
C308	VCCSMN1HL47C	J	AA	4.7 pF,50V	C811	VCEAZW1EW338M	J	AG	3300 μF,25V,Electrolytic
C309	VCKYMN1HB102K	J	AA	0.001 μF,50V	C812,813	VCQYKA1HM473K	J	AB	0.047 μF,50V,Myar
C310	VCCCMN1HH150J	J	AA	15 pF (CH),50V	C814,815	VCEAZW1HW228M	J	AH	2200 μF,50V,Electrolytic
C311	VCCSMN1HL180J	J	AA	18 pF,50V	C816,817	VCQYKA1HM473K	J	AB	0.047 μF,50V,Myar
C312	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C818,819	VCQYKA1HM104K	J	AB	0.1 μF,50V,Myar
C313	VCCCMN1HH220J	J	AA	22 pF (CH),50V	C820	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
C314,315	VCTYMN1CX472K	J	AA	0.0047 μF,16V	C821	VCQYKA1HM104K	J	AB	0.1 μF,50V,Myar
C316	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C822	VCKZPA1HF223Z	J	AA	0.022 μF,50V
C317	VCKYMN1HB102K	J	AA	0.001 μF,50V	C823,824	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
C318	VCKYMN1HB101K	J	AA	100 pF,50V	C825	VCQYKA1HM473K	J	AB	0.047 μF,50V,Myar
C323	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C826	VCEAZA1EW226M	J	AB	22 μF,25V,Electrolytic
C324	VCCUMN1HJ8R2D	J	AA	8.2 pF (UJ),50V	C827	VCQYKA1HM473K	J	AB	0.047 μF,50V,Myar
C330	VCCUMN1HJ150J	J	AA	15 pF (UJ),50V	C915,916	VCEAZA1HW226M	J	AB	22 μF,50V,Electrolytic
C331	VCKZPA1HF473Z	J	AA	0.047 μF,50V	C917~920	VCQYKA1HM104K	J	AB	0.1 μF,50V,Myar
C332	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C921,922	VCKYPA1HB102K	J	AA	0.001 μF,50V
C334	VCCUMN1HJ270J	J	AA	27 pF (UJ),50V	C923	VCKYMN1HB102K	J	AA	0.001 μF,50V
C335	VCKYMN1HB561K	J	AA	560 pF,50V	C931,932	VCKYPA1HB221K	J	AA	220 pF,50V
C338	VCKYMN1HB102K	J	AA	0.001 μF,50V	C933,934	VCCSPA1HL3R0C	J	AA	3 pF,50V
C342	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C935,936	VCEAZA1HW106M	J	AB	10 μF,50V,Electrolytic
C350,351	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C937,938	VCEAZA1HW107M	J	AC	100 μF,50V,Electrolytic
C352	VCEAZA1CW106M	J	AC	10 μF,16V,Electrolytic	C939,940	VCEAZA1HW106M	J	AB	10 μF,50V,Electrolytic
C353,354	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C941,942	VCEAZA1HW106M	J	AB	10 μF,50V,Electrolytic
C355	VCCSMN1HL220J	J	AA	22 pF,50V	C943	VCEAZA1CW107M	J	AC	100 μF,16V,Electrolytic
C356	VCKYMN1HB102K	J	AA	0.001 μF,50V	C947,948	VCKZPA1HF223Z	J	AA	0.022 μF,50V
C357	VCEAZA1HW225M	J	AB	2.2 μF,50V,Electrolytic	C949	VCKYBT1HB102K	J	AA	0.001 μF,50V
C358	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic	CV1	VCEAPS476AF0J	J	AC	47 μF,6.3V,Electrolytic
C361	VCTYMN1EF223Z	J	AA	0.022 μF,25V	CV2	VCKYTV1CF224Z	J	AB	0.22 μF,16V
C362	VCEAZA1HW335M	J	AB	3.3 μF,50V,Electrolytic	CV4	VCEAPS476AF0J	J	AC	47 μF,6.3V,Electrolytic
C363	VCTYMN1EF223Z	J	AA	0.022 μF,25V	CV5	VCKYTV1CF224Z	J	AB	0.22 μF,16V
C364	VCEAZA1CW106M	J	AC	10 μF,16V,Electrolytic	CV6,7	VCCCTV1HH270J	J	AA	27 pF (CH),50V
C365	VCKZPA1HF223Z	J	AA	0.022 μF,50V	CV9	VCKYTV1CF224Z	J	AB	0.22 μF,16V
C366	VCKYMN1HB102K	J	AA	0.001 μF,50V	CV10	VCEAPS476AF0J	J	AC	47 μF,6.3V,Electrolytic
C367,368	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic	CV11,12	VCKYTV1CF224Z	J	AB	0.22 μF,16V
C369	VCCUMN1HJ270J	J	AA	27 pF (UJ),50V	CV13,14	VCKYTV1EB104K	J	AA	0.1 μF,25V
C370~372	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic	CV15	VCEAPS475AF1E	J	AB	4.7 μF,25V,Electrolytic
C373,374	VCTYPA1CX153K	J	AA	0.015 μF,16V	CV16	VCKYTV1EB102K	J	AA	0.1 μF,25V
C380	VCEAZA1CW106M	J	AC	10 μF,16V,Electrolytic	CV17	VCKYTV1HB103K	J	AA	0.01 μF,50V
C381	VCCCMN1HH120J	J	AA	12 pF (CH),50V	CV18	VCEAZA0JW108M	J	AC	1000 μF,6.3V,Electrolytic
C382	VCCCMN1HH150J	J	AA	15 pF (CH),50V	CV19~21	VCKYTV1CF224Z	J	AB	0.22 μF,16V
C384	VCKYMN1HB102K	J	AA	0.001 μF,50V	CV22,23	VCEAPS476AF0J	J	AC	47 μF,6.3V,Electrolytic
C385	VCTYMN1CY103N	J	AA	0.01 μF,16V	CV24,25	VCKYTV1CF224Z	J	AB	0.22 μF,16V
C386	VCKYMN1HB331K	J	AA	330 pF,50V	CV39	VCEAZA0JW108M	J	AC	1000 μF,6.3V,Electrolytic
C387	VCTYMN1EF223Z	J	AA	0.022 μF,25V	CV40	VCEAPS226AF0J	J	AB	22 μF,6.3V,Electrolytic
C391	VCEAZA1CW476M	J	AB	47 μF,16V,Electrolytic	CV41	VCEAPS475AF1E	J	AB	4.7 μF,25V,Electrolytic

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NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION	NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
RESISTORS					R309	VRD-ST2CD103J	J	AA	10 kohm,1/6W
	VRD-MN2BD000C	J	AA	0 ohm,Jumper,ø1.4×3.5mm,Ivory	R311	VRD-MN2BD104J	J	AA	100 kohm,1/8W
	VRS-TV2AB000J	J	AA	0 ohm,Jumper,1.25×2mm,Green	R313	VRD-MN2BD333J	J	AA	33 kohms,1/8W
JP601	VRD-MN2BD102J	J	AA	1 kohm,1/8W	R314	VRD-ST2CD220J	J	AA	22 ohms,1/6W
R1	VRS-TV2AB102J	J	AA	1 kohm,1/10W	R316	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R3	VRS-TV2AB823J	J	AA	82 kohms,1/10W	R322	VRD-MN2BD681J	J	AA	680 ohms,1/8W
R4	VRS-TV2AB183J	J	AA	18 kohms,1/10W	R323	VRD-MN2BD683J	J	AA	68 kohms,1/8W
R5	VRS-TV2AB393J	J	AA	39 kohms,1/10W	R325	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R6	VRS-TV2AB273J	J	AA	27 kohms,1/10W	R327	VRD-MN2BD330J	J	AA	33 ohms,1/8W
R7	VRS-TV2AB682J	J	AA	6.8 kohms,1/10W	R336	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R8	VRS-TV2AB331J	J	AA	330 ohms,1/10W	R350	VRD-MN2BD272J	J	AA	2.7 kohms,1/8W
R10	VRS-TV2AB273J	J	AA	27 kohms,1/10W	R351	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R11	VRS-TV2AB123J	J	AA	12 kohms,1/10W	R352	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R12,13	VRS-TV2AB681J	J	AA	680 ohms,1/10W	R353	VRD-MN2BD271J	J	AA	270 ohms,1/8W
R14	VRS-TV2AB122J	J	AA	1.2 kohms,1/10W	R355	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R15,16	VRS-TV2AB103J	J	AA	10 kohm,1/10W	R356	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R17	VRS-TV2AB102J	J	AA	1 kohm,1/10W	R357	VRD-ST2CD474J	J	AA	470 kohms,1/6W
R19	VRS-TV2AB470J	J	AA	47 ohms,1/10W	R358	VRD-ST2CD392J	J	AA	3.9 kohms,1/6W
R20	VRS-TV2AB221J	J	AA	220 ohms,1/10W	R359	VRD-MN2BD182J	J	AA	1.8 kohms,1/8W
R21,22	VRS-TV2AB471J	J	AA	470 ohms,1/10W	R360	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R25	VRS-TV2AB103J	J	AA	10 kohm,1/10W	R361~365	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R35	VRS-TV2AB102J	J	AA	1 kohm,1/10W	R372~374	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R38	VRS-TV2AB271J	J	AA	270 ohms,1/10W	R375	VRD-ST2CD471J	J	AA	470 ohms,1/6W
R39	VRS-TV2AB471J	J	AA	470 ohms,1/10W	R376	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R40	VRS-TV2AB122J	J	AA	1.2 kohms,1/10W	R377	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R42	VRS-TV2AB124J	J	AA	120 kohms,1/10W	R378	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R44	VRS-TV2AB102J	J	AA	1 kohm,1/10W	R379	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R45	VRS-TV2AB122J	J	AA	1.2 kohms,1/10W	R380	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
R46	VRS-TV2AB102J	J	AA	1 kohm,1/10W	R381	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R47	VRS-TV2AB3R3J	J	AA	3.3 ohms,1/10W	R382	VRD-ST2EE151J	J	AA	150 ohms,1/4W
R48	VRS-TV2AB682J	J	AA	6.8 kohms,1/10W	R383	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R50	VRS-TV2AB470J	J	AA	47 ohms,1/10W	R384	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
R51~56	VRS-TV2AB683J	J	AA	68 kohms,1/10W	R385	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R58	VRS-TV2AB221J	J	AA	220 ohms,1/10W	R386	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R67,68	VRS-TV2AB102J	J	AA	1 kohm,1/10W	R387	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
R71~78	VRS-TV2AB102J	J	AA	1 kohm,1/10W	R388	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R79	VRS-TV2AB155J	J	AA	1.5 Mohms,1/10W	R391,392	VRD-ST2EE271J	J	AA	270 ohms,1/4W
R80	VRS-TV2AB105J	J	AA	1 Mohm,1/10W	R393	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R81,82	VRS-TV2AB222J	J	AA	2.2 kohms,1/10W	R395	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R83,84	VRS-TV2AB103J	J	AA	10 kohm,1/10W	R601,602	VRD-ST2CD331J	J	AA	330 ohms,1/6W
R85	VRS-TV2AB101J	J	AA	100 ohm,1/10W	R603,604	VRD-MN2BD272J	J	AA	2.7 kohms,1/8W
R86	VRS-TV2AB102J	J	AA	1 kohm,1/10W	R607,608	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R89~93	VRS-TV2AB102J	J	AA	1 kohm,1/10W	R609	VRD-MN2BD822J	J	AA	8.2 kohms,1/8W
R94,95	VRS-TV2AB103J	J	AA	10 kohm,1/10W	R610	VRD-ST2CD822J	J	AA	8.2 kohms,1/6W
R96	VRS-TV2AB102J	J	AA	1 kohm,1/10W	R615,616	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R97	VRS-TV2AB392J	J	AA	3.9 kohms,1/10W	R617,618	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R101,102	VRD-MN2BD103J	J	AA	10 kohm,1/8W	R625	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R103	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W	R701~704	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R104	VRD-ST2CD102J	J	AA	1 kohm,1/6W	R705~707	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R105	VRD-MN2BD102J	J	AA	1 kohm,1/8W	R708	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R106,107	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W	R709~718	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R108,109	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W	R719~721	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R110	VRD-MN2BD473J	J	AA	47 kohms,1/8W	R722	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R111,112	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W	R724,725	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R113	VRD-MN2BD473J	J	AA	47 kohms,1/8W	R726~729	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R114,115	VRD-ST2CD102J	J	AA	1 kohm,1/6W	R732	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R116,117	VRD-ST2CD560J	J	AA	56 ohms,1/6W	R733~737	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R118,119	VRD-MN2BD104J	J	AA	100 kohm,1/8W	R742	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R120,121	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W	R743	VRD-ST2CD330J	J	AA	33 ohms,1/6W
R122	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W	R744	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R123	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W	R745	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R124,125	VRD-MN2BD333J	J	AA	33 kohms,1/8W	R748~751	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R126	VRD-MN2BD683J	J	AA	68 kohms,1/8W	R753	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R127,128	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W	R755	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R129,130	VRD-MN2BD272J	J	AA	2.7 kohms,1/8W	R756,757	VRD-MN2BD683J	J	AA	68 kohms,1/8W
R131,132	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W	R758,759	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R133,134	VRD-MN2BD101J	J	AA	100 ohm,1/8W	R760,761	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R135~137	VRD-MN2BD103J	J	AA	10 kohm,1/8W	R762,763	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R138	VRD-ST2CD103J	J	AA	10 kohm,1/6W	R766~768	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R139	VRD-ST2EE221J	J	AA	220 ohms,1/4W	R769	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R140	VRD-MN2BD103J	J	AA	10 kohm,1/8W	R770	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R141	VRD-MN2BD103J	J	AA	10 kohm,1/8W	R771	VRD-ST2CD104J	J	AA	100 kohm,1/6W
R142,143	VRD-ST2CD224J	J	AA	220 kohms,1/6W	R772	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R144	VRD-MN2BD473J	J	AA	47 kohms,1/8W	R773	VRD-ST2CD101J	J	AA	100 ohm,1/6W
R145	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W	R775~777	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R146	VRD-RT2HD820J	J	AA	82 ohms,1/2W	R778	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R147	VRD-MN2BD473J	J	AA	47 kohms,1/8W	R792	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R148	VRD-MN2BD223J	J	AA	22 kohms,1/8W	R807	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R149	VRD-ST2CD4R7J	J	AA	4.7 ohms,1/6W	R808,809	VRD-ST2CD221J	J	AA	220 ohms,1/6W
R157	VRD-ST2EE101J	J	AA	100 ohm,1/4W	R810	VRD-ST2CD123J	J	AA	12 kohms,1/6W
R302	VRD-MN2BD100J	J	AA	10 ohm,1/8W	R811,812	VRD-ST2EE223J	J	AA	22 kohms,1/4W
					R813	VRD-ST2CD223J	J	AA	22 kohms,1/6W

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NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION	NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
R814	VRD-ST2CD330J	J AA	33 ohms,1/6W	CNP102	QCNCM705GAFZZ	J AB	Plug,7Pin
R815	VRD-ST2CD223J	J AA	22 kohms,1/6W	CNP302	92LCONE2P5268	J AB	Plug,2Pin
R817	VRD-ST2CD103J	J AA	10 kohm,1/6W	CNP701	QCNCWZF21AWZZ	J AF	Socket,21Pin
R907,908	VRD-ST2EE331J	J AA	330 ohms,1/4W	CNP802	QCNCM035GAWZZ	J AC	Plug,7Pin
R909,910	VRD-ST2EE4R7J	J AA	4.7 ohms,1/4W	CNP901	QCNCM035FAWZZ	J AC	Plug,6Pin
R931,932	VRD-ST2CD102J	J AA	1 kohm,1/6W	CNPV3	92LCONE2P53254	J AB	Plug,2Pin
R933,934	VRD-ST2CD563J	J AA	56 kohms,1/6W	CNS1A/B	QCNCWN1537AWZZ	J AG	Connector Ass'y,7/7Pin
R935,936	VRD-ST2CD102J	J AA	1 kohm,1/6W	CNS2A/B	QCNCWN1538AWZZ	J AG	Connector Ass'y,8/8Pin
R937	VRD-ST2CD223J	J AA	22 kohms,1/6W	CNS3A/B	QCNCWN1539AWZZ	J AE	Connector Ass'y,6/6Pin
△ R938,939	VRG-ST2EC101J	J AB	100 ohm,1/4W,Fusible	CNS701	QCNCWZG21AWZZ	J AG	Socket,21Pin
R940	VRD-ST2CD103J	J AA	10 kohm,1/6W	CNS703	QCNCWZF13AWZZ	J AC	Socket,13Pin
R941,942	VRD-ST2CD393J	J AA	39 kohms,1/6W	CNS902	QCNCWN1644AWZZ	J	Socket,2Pin
R943	VRD-ST2CD473J	J AA	47 kohms,1/6W	△ F801	92LFUSET202E	J AC	Fuse,T2A L 250V
R944	VRD-ST2CD102J	J AA	1 kohm,1/6W	△ F802,803	92LFUSET312E	J AD	Fuse,T3,15A L 250V
R945	VRD-ST2CD103J	J AA	10 kohm,1/6W	FFC13	QCNCWN1544AWZZ	J AE	Flat Cable,13Pin
R947,948	VRD-ST2CD102J	J AA	1 kohm,1/6W	FFC21	QCNCWN1629AWZZ	J AH	Flat Cable,21Pin
R951	VRD-ST2CD473J	J AA	47 kohms,1/6W	FL701	VVKSVA9MS13-1	J AZ	FL Display
R952	VRD-ST2CD333J	J AA	33 kohms,1/6W	FW901	QCNCWN1612AWZZ	J AD	Connector Ass'y,5Pin
R953	VRD-ST2CD102J	J AA	1 kohm,1/6W	JK901	QJAKM0010AWZZ	J AF	Jack,Headphones
R954,955	VRS-VV3AAR10J	J	0.1 ohm,1W	JK902	QSOCJ0110AWZZ	J AE	Jack,Video Out
RD01	VRD-ST2CD681J	J AA	680 ohms,1/6W	LG101	QLUGP0002AWZZ	J AB	Lug
RD02	VRD-MN2BD821J	J AA	820 ohms,1/8W	LG901	QLUGP0001AWZZ	J AC	Lug
RD03	VRD-ST2CD102J	J AA	1 kohm,1/6W	M1	92LMTR2790CASY	J BB	Motor with Chassis [Spindle]
RD04	VRD-MN2BD152J	J AA	1.5 kohms,1/8W	M2	92LMTR1854BASY	J AP	Motor with Gear [Sled]
RD05	VRD-ST2CD222J	J AA	2.2 kohms,1/6W	M3	92LTWMEN7E6Y	J AR	Motor with Worm Pulley [T/T Up/Down Loading]
RD06	VRD-MN2BD272J	J AA	2.7 kohms,1/8W	RX701	VHLN63H380A-1	J AK	Remote Sensor,N63H380A
RD07	VRD-MN2BD392J	J AA	3.9 kohms,1/8W	SO302	QTANC0206AWZZ	J AD	FM Terminal
RD08	VRD-ST2CD563J	J AA	56 kohms,1/6W	SO801	QSOCA0212AWZZ	J AD	Socket,AC Input
RD09	VRD-MN2BD104J	J AA	100 kohm,1/8W	SO901	QTANA0809AWZZ	J AG	Terminal,Speaker
RD10	VRD-MN2BD821J	J AA	820 ohms,1/8W	SW1	SWMPU10780MLB	J AH	Switch,Push Type [Open/Clese]
RD11	VRD-MN2BD102J	J AA	1 kohm,1/8W	SW2	SWMPU11470MLB	J AE	Switch,Push Type [Clamp]
RD12	VRD-MN2BD152J	J AA	1.5 kohms,1/8W	SW3	SWMPU11470MLB	J AE	Switch,Push Type [Disc Number]
RD13	VRD-MN2BD681J	J AA	680 ohms,1/8W	SW4	QSW-F9001AW01	J AD	Switch,Leaf Type [Pickup In]
RD14	VRD-ST2CD821J	J AA	820 ohms,1/6W	SW601	QSW-S0024AWZZ	J AE	Switch,Slide Type [Span Selector]
RD15	VRD-MN2BD102J	J AA	1 kohm,1/8W	SW701	92LSWICHT1663T	J AC	Switch,Key Type [ON/STAND-BY]
RD16	VRD-MN2BD152J	J AA	1.5 kohms,1/8W	SW702	92LSWICHT1663T	J AC	Switch,Key Type [CLOCK]
RD17	VRD-MN2BD222J	J AA	2.2 kohms,1/8W	SW703	92LSWICHT1663T	J AC	Switch,Key Type [TIMER/SLEEP]
RD18	VRD-ST2CD272J	J AA	2.7 kohms,1/6W	SW704	92LSWICHT1663T	J AC	Switch,Key Type [AUDIO MODE]
RD19	VRD-MN2BD392J	J AA	3.9 kohms,1/8W	SW705	92LSWICHT1663T	J AC	Switch,Key Type [P.B.C.]
RD20	VRD-MN2BD562J	J AA	5.6 kohms,1/8W	SW706	92LSWICHT1663T	J AC	Switch,Key Type [OSD]
RD21	VRD-ST2CD103J	J AA	10 kohm,1/6W	SW707	92LSWICHT1663T	J AC	Switch,Key Type [DIGEST]
RD22	VRD-ST2CD153J	J AA	15 kohms,1/6W	SW708	92LSWICHT1663T	J AC	Switch,Key Type [BOOK MARK]
RD23	VRD-MN2BD333J	J AA	33 kohms,1/8W	SW709	92LSWICHT1663T	J AC	Switch,Key Type [DISC SKIP]
RD24	VRD-MN2BD104J	J AA	100 kohm,1/8W	SW710	92LSWICHT1663T	J AC	Switch,Key Type [OPEN/CLOSE]
RD25	VRD-MN2BD681J	J AA	680 ohms,1/8W	SW711	92LSWICHT1663T	J AC	Switch,Key Type [X-BASS/DEMO]
RD26	VRD-MN2BD682J	J AA	6.8 kohms,1/8W	SW712	92LSWICHT1663T	J AC	Switch,Key Type [Volume Up]
RV1	VRS-TV2AB103J	J AA	10 kohm,1/10W	SW713	92LSWICHT1663T	J AC	Switch,Key Type [Volume Down]
RV2	VRS-TV2AB102J	J AA	1 kohm,1/10W	SW714	92LSWICHT1663T	J AC	Switch,Key Type [CD]
RV11	VRS-TV2AB102J	J AA	1 kohm,1/10W	SW715	92LSWICHT1663T	J AC	Switch,Key Type [Tape]
RV15	VRS-TV2AB102J	J AA	1 kohm,1/10W	SW716	92LSWICHT1663T	J AC	Switch,Key Type [Tuning/Time Down]
RV20	VRS-TV2AB102J	J AA	1 kohm,1/10W	SW717	92LSWICHT1663T	J AC	Switch,Key Type [Memory/Set]
RV22	VRS-TV2AB102J	J AA	1 kohm,1/10W	SW718	92LSWICHT1663T	J AC	Switch,Key Type [Rewind]
RV37	VRS-TV2AB102J	J AA	1 kohm,1/10W	SW719	92LSWICHT1663T	J AC	Switch,Key Type [Fast Forward]
RV38~43	VRS-TV2AB392J	J AA	3.9 kohms,1/10W	SW720	92LSWICHT1663T	J AC	Switch,Key Type [Play/Repeat]
RV44~47	VRS-TV2AB392J	J AA	3.9 kohms,1/10W	SW721	92LSWICHT1663T	J AC	Switch,Key Type [Stop]
RV48~50	VRS-TV2AB392J	J AA	3.9 kohms,1/10W	SW723	92LSWICHT1663T	J AC	Switch,Key Type [REC/PAUSE]
RV51	VRS-TV2AB473J	J AA	47 kohms,1/10W	SW724	92LSWICHT1663T	J AC	Switch,Key Type [TUNING/TIME UP]
RV59	VRS-TV2AB103J	J AA	10 kohm,1/10W	SW725	92LSWICHT1663T	J AC	Switch,Key Type [Tuner/Band]
RV60	VRS-TV2AB101J	J AA	100 ohm,1/10W	△ SW801	QSOCE0008AWZZ	J AH	Switch,Slide Type [Voltage Selector]
RV61	VRS-TV2AB104J	J AA	100 kohm,1/10W				
RV62,63	VRS-TV2AB151J	J AA	150 ohms,1/10W				
RV64	VRS-TV2AB470J	J AA	47 ohms,1/10W				
RV84	VRS-TV2AB472J	J AA	4.7 kohms,1/10W				
RV85	VRS-TV2AB103J	J AA	10 kohm,1/10W				
RV86	VRS-TV2AB472J	J AA	4.7 kohms,1/10W				
RV93,94	VRS-TV2AB103J	J AA	10 kohm,1/10W				
RV95	VRS-TV2AB682J	J AA	6.8 kohms,1/10W				
RV96	VRS-TV2AB333J	J AA	33 kohms,1/10W				

OTHER CIRCUITRY PARTS

BI4/CNS4	QCNCWN1572AWZZ	J AF	Connector Ass'y,6/6Pin
BI601/CNS601	QCNCWN1540AWZZ	J AF	Connector Ass'y,5/5Pin
BI702/CNP702	QCNCWN1578AWZZ	J	Connector Ass'y,12/12Pin
CNP1	QCNCM704GAWZZ	J AC	Plug,7Pin
CNP2	QCNCM704HAWZZ	J AC	Plug,8Pin
CNP3	92LCONE6P53253	J AC	Plug,6Pin
CNP3A	92LCONE6P53254	J AC	Plug,6Pin
CNP4	QCNCM705FAFZZ	J AB	Plug,6Pin
CNP11	92LCONE5P53254	J AB	Plug,5Pin
CNP12	QCNCM932MAFZZ	J AE	Plug,11Pin
CNP101	QCNCM705CAFZZ	J AA	Plug,3Pin

CD MECHANISM PARTS

301	NGERH0011AWZZ	J AC	Gear,Middle
302	NGERH0012AWZZ	J AC	Gear,Drive
303	MLEVP0080AWZZ	J AC	Rail,Guide
304	NSFTM0020AWFW	J AD	Shaft,Guide
305	92LM-CUSN1524A	J AC	Cushion
△ 306	92LHPC1LXASY	J BD	Pickup Unit Ass'y
306- 1	—	—	Pickup Unit (Not Replacement Item)
306- 2	NGERR0043AFZZ	J AC	Gear,Rack
306- 3	MSPRC0961AFZZ	J AA	Spring,Rack
701	XBSSD26P06000	J AA	Screw,ø2.6×6mm
702	XHBSD20P05000	J AA	Screw,ø2×5mm
703	XBBSD20P03000	J AA	Screw,ø2×3mm
704	LX-WZ1070AFZZ	J AA	Washer,ø1.5×ø3.8×0.25mm

CD-BP1450V

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
M1	92LMTR2790CASY	J	BB	Motor with Chassis [Spindle]
M2	92LMTR1854BASY	J	AP	Motor with Gear [Sled]
SW4	QSW-F9001AW01	J	AD	Switch,Leaf Type [Pickup In]

CABINET PARTS

201	92LCAB3315AASY	J		Front Panel Ass'y
201- 1		—		Front Panel (Not Replacement Item)
201- 2	GDORF0076AWSA	J	AE	Holder,Cassette,Tape 1
201- 3	GDORF0077AWSA	J	AE	Holder,Cassette,Tape 2
201- 4	GCOVA1270AWSA	J	AH	Cover,Cassette,Tape 1
201- 5	GCOVA1271AWSA	J	AH	Cover,Cassette,Tape 2
201- 6	HDECQ0541AWSA	J	AE	Panel,Cassette,Tape 1
201- 7	HDECQ0542AWSA	J	AE	Panel,Cassette,Tape 2
201- 8	HDECQ0623AWSA	J		Panel,Amp.
201- 9	JKNBZ0720AWSA	J	AG	Button,RDS
201-10	JKNBZ0677AWSB	J		Button,Volume
201-11	KNOB3330AASY1	J		Button,Function Ass'y
201-12	JKNBZ0721AWSA	J	AG	Button,On/Stand-by
201-13	JKNBZ0712AWSA	J	AH	Button,Play/Stop
201-14	JKNBZ0713AWSB	J		Button,FF/REW
201-15	JKNBZ0676AWSA	J	AF	Button,Tuning
201-16	HDECQ0622AWSA	J		Panel,Decoration
201-18	MLIFF0008AWZZ	J	AD	Damper
201-19	MSPRD0092AWFJ	J	AB	Spring,Cassette,Tape 1
201-20	MSPRD0093AWFJ	J	AB	Spring,Cassette,Tape 2
201-21	92LBADGE1671A	J	AC	Badge,SHARP
201-22	JKNBZ0675AWSA	J	AF	Button,Equalizer/X-Bass/Demo
202	92LCAB3325BASY	J		Side Panel Ass'y,Left
202- 1		—		Side Panel,Left (Not Replacement Item)
202- 2	PCUSG0022AWZZ	J	AB	Cushion,Leg
203	92LCAB3325CASY	J		Side Panel Ass'y,Right
203- 1		—		Side Panel,Right (Not Replacement Item)
203- 2	PCUSG0022AWZZ	J	AB	Cushion,Leg
204	92LCOV3287AASY	J		CD Tray Cover Ass'y
204- 1		—		Cover,CD Tray (Not Replacement Item)
204- 2	GCOVA1254AWSA	J	AE	Cover,CD Tray Panel,Left
204- 3	GCOVA1255AWSA	J	AE	Cover,CD Tray Panel,Right
205	GCAB-1184AWSA	J	AP	Top Cabinet
206	GITAR0633AWSA	J		Rear Panel
208	LANGK0110AWFW1J	J	AD	Support,Cassette Lock,Tape 1
209	LANGK0111AWFW1J	J	AD	Support,Cassette Lock,Tape 2
213	LCHSM0104AWFW	J	AP	Main Chassis
214	LHLDZ1087AWSA1	J	AC	Holder,FL Display
219	MLOKC0003AWZZ	J	AD	Lock Lever,Cassette,Tape 1
220	MLOKC0004AWZZ	J	AD	Lock Lever,Cassette,Tape 2
221	MSPRD0109AWFJ	J	AB	Spring,Cassette Lock,Tape 1
222	MSPRD0110AWFJ	J	AB	Spring,Cassette Lock,Tape 2
224	92LPT0331105	J	AM	Turntable
225	PCUSG0022AWZZ	J	AB	Cushion,Leg
226	PRDAR0162AWFW	J		Heat Sink,Main
230	QCNWN1615AWZZ	J	AC	Lug Wire
231	QFSDH0001AWZZ	J	AB	Holder,Fuse
232	92LBE241414	J	AD	Belt
234	92LEVA0330702	J	AD	Cushion,CD Player Unit
235	92LMAG0104302	J	AE	Magnet
236	92LMT0304302	J	AB	Plate,Metal
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

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
258	92LPT0330301	J	AU	Chassis,Loading
259	92LPT0330803	J	AK	CD,Chassis
260	92LPT0331003	J	AT	Chassis,Slide
262	92LSP0304303	J	AB	Spring,Stopper
263	92LSP0304305	J	AB	Spring,Lock
264	92LSP0304306	J	AB	Spring,Lock Gear
265	TSPC-0764AWZZ	J		Label,Specification [For Thailand]
265	TSPC-0781AWZZ	J		Label,Specification [For Taiwan]
268	KMECB0012AWZZ	J	BG	Tape Mechanism Ass'y
270	LHLDZ1230AWZZ	J	AC	Holder,LED
271	PRDAR0174AWFW	J		Heat Sink,Sub
272	92LCAUT1706A1	J	AC	Label,Class 3
273	92LCAUT1706B	J	AA	Label,Laser
601	LX-JZ0004AWFD	J	AA	Screw,ø3×12mm
604	XEBSD30P12000	J	AA	Screw,ø3×12mm
605	XESSD30P10000	J	AA	Screw,ø3×10mm
606	XHBSD26P04000	J	AA	Screw,ø2.6×4mm
607	XJBSD30P14000	J	AA	Screw,ø3×14mm
610	XJBSF30P10000	J	AA	Screw,ø3×10mm
611	XJBSD30P08000	J	AA	Screw,ø3×8mm
612	LX-HZ0009AWFD	J	AC	Screw,Special
613	LX-HZ0082AFZZ	J	AA	Screw,ø4×8mm
614	LX-JZ0010AFFD	J	AA	Screw,Special
616	LX-BZ2222AXZZ	J	AB	Screw,Special
618	92LSC0308MBZI	J	AB	Screw,ø3×8mm
619	92LSC0308RBZI	J		Screw,ø3×8mm
620	XEBSD26P08000	J	AA	Screw,ø2.6×8mm
621	XJSSD30P08000	J	AA	Screw,ø3×8mm

ACCESSORIES/PACKING PARTS

△	QACCA0004AW00	J		AC Power Supply Cord
△	QACCE0007AW00	J	AH	AC Power Supply Cord
△	QACCJ0006AW00	J		AC Power Supply Cord
	QANTL0008AWZZ	J	AH	AM Loop Antenna
	QCNWG0005AWZZ	J	AL	CD G Video Cord
	QPLGA0003AWZZ	J	AF	AC Plug Adaptor
△	QPLGA0004AWZZ	J	AF	AC Plug Adaptor
△	SPAKA0244AWZZ	J	AL	Packing Add.,Left/Right
	SPAKC0981AWZZ	J		Packing Case [Except for Turkey]
	SPAKC1052AWZZ	J		Packing Case [For Turkey]
	SPAKP0013AWZZ	J	AC	Polyethylene Bag,Unit
	SPAKZ0525AWZZ	J		Carton Pad
	SPAKZ0573AWZZ	J	AB	Sheet,CD Tray
	SPAKZ0609AWZZ	J		Pad,Rear
	TCAUA0056AWZZ	J		Caution Tag [For Taiwan]
	TGANE0011AW50	J		Warranty Card [For Philippines]
	TGANZ0028AW58	J		Warranty Card [For Taiwan]
	TINST0092AWZZ	J		Operation Manual [For Thailand]
	TINSZ0602AWZZ	J		Operation Manual [Except for Thailand]
	TLABB0001AWZZ	J	AB	Label,SHARP Corporation Japan for Set
	TLABE0456AWZZ	J		Label,Bar Code [For Thailand]
	TLABE0457AWZZ	J		Label,Bar Code [Except for Thailand]
	TLABJ0003AWZZ	J	AB	Label,SHARP Corporation Japan for Packing Case
	TLABN0112AWZZ	J		Label,Serial Number
	TLABZ0790AWZZ	J		Label,Feature,Tape 1 [For Turkey]
	TLABZ0792AWZZ	J		Label,Feature,Tape 1 [Except for Turkey]
	TLABZ0810AWZZ	J		Label,Feature,Tape 2
	TLABZ0840AWZZ	J		Label,Carton [For Taiwan]
	92LBAG1460C1	J	AB	Polyethylene Bag,Accessories
	92LBAG760C	J	AA	Polyethylene Bag,AC Plug Adaptor
	92LFANT1746A	J	AD	FM Antenna
	92LPANEL713A	J	AB	Panel,MADE IN MALAYSIA
	RRMCG0231AWSA	J		Remote Control
	GFTAB1022AWSB	J	AK	Battery Lid,Remote Control

NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
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P.W.B. ASSEMBLY (Not Replacement Item)

PWB-A1~4	92LPWB3315MANS	J	—	Main/Display/Headphones/Video Out (Combined Ass'y)
PWB-B	92LPWB3287VCDS	J	—	CD Video
PWB-C	QPWBF0027AWZZ	J	AD	CD Motor (PWB Only)
PWB-D	—	—	—	Tape Mechanism
PWB-E	92LPC99C017	J	AE	CD Loading Motor (PWB Only)

OTHER SERVICE PART

UDSKA0004AFZZ	J	AZ	CD Pickup Lens Cleaner
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CP-BK1450**SPEAKER BOX PARTS**

901	92L051-0104	J	AV	Speaker, Box Ass'y
902	92L121-0199	J	AT	Net Frame Ass'y
903	92L122-0046	J		Tweeter Cord Ass'y (With Capacitor)
904	92L312-0090	J	AV	Front Panel
905	92L316-0068	J	AF	Duct Pipe
906	92L351-0386	J		Label, Specifications
907	92L394-0045	J	AC	Port Cushion
908	92L394-0049	J	AB	Cushion
909	92L372-0108	J	AB	Screw, $\phi 3 \times 10$ mm
910	92L372-0106	J	AB	Screw, $\phi 4 \times 12$ mm
SP1,2	VSP0051TBP28A	J		Tweeter
SP3,4	VSP0013WB538A	J		Woofer

PACKING PARTS

92L411-0075	J	AG	Polyethylene Bag
92L412-0125	J	AN	Packing Add., Top/Bottom

GBOXS0043AWM1**SPEAKER BOX PARTS**

901	92LSRCNF006RS	J	AP	Net Frame Ass'y
902	92LSRCBC011RS	J		Bottom Cabinet
903	92LSRSC004RS	J	AK	Speaker Cord
904	92LSRCPL017RS	J		Label, Part Code
905	92LSRCSW005RS	J	AB	Screw, $\phi 3 \times 12$ mm
SP1,2	VSP0080PBP2WA	J	AN	Speaker

PACKING PARTS

92LSRCBP012RS	J		Packing Add., Bottom
92LSRCPE006RS	J	AB	Polyethylene Bag
92LSRCTP011RS	J		Packing Add., Top

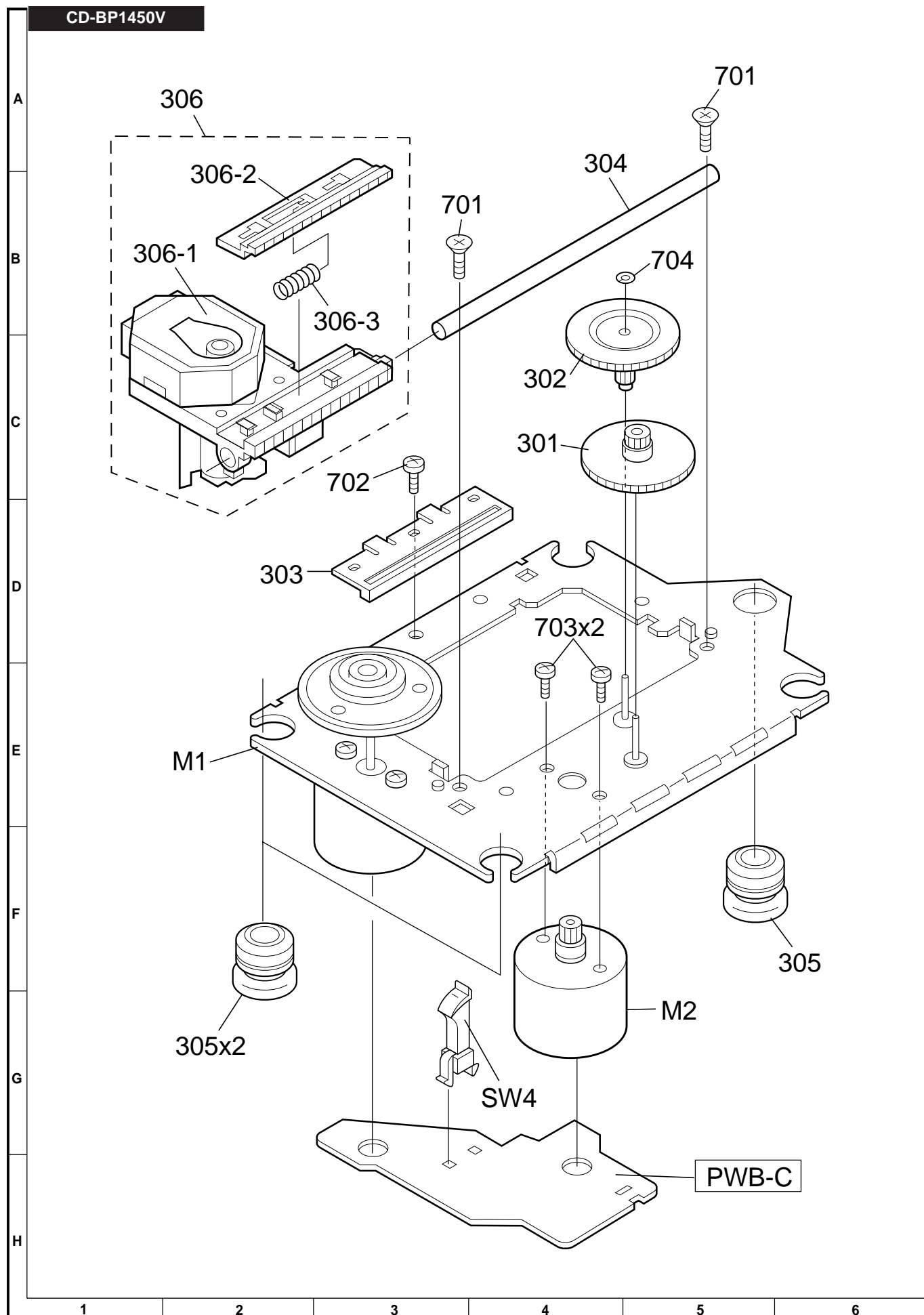
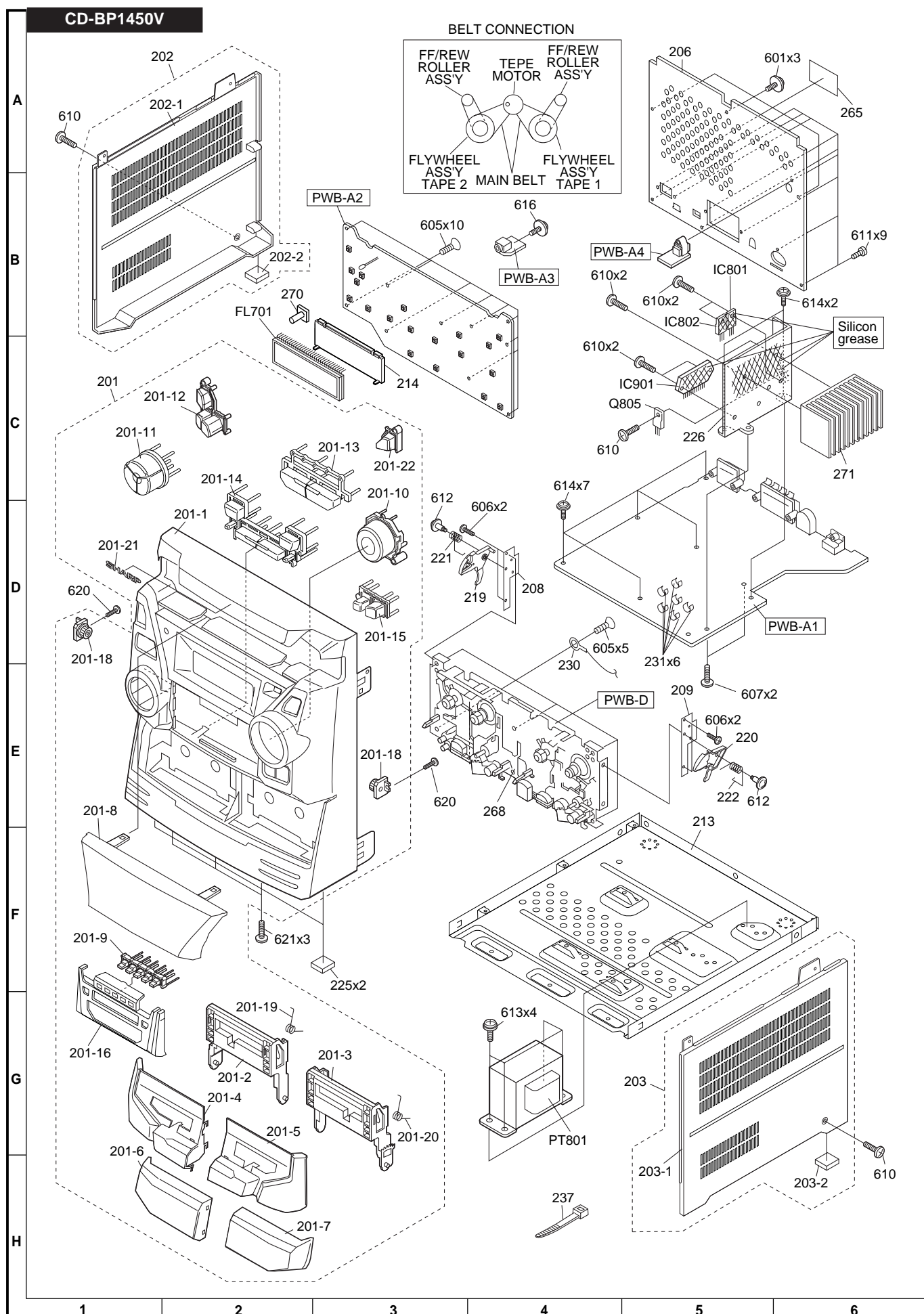


Figure 7 CD MECHANISM EXPLODED VIEW



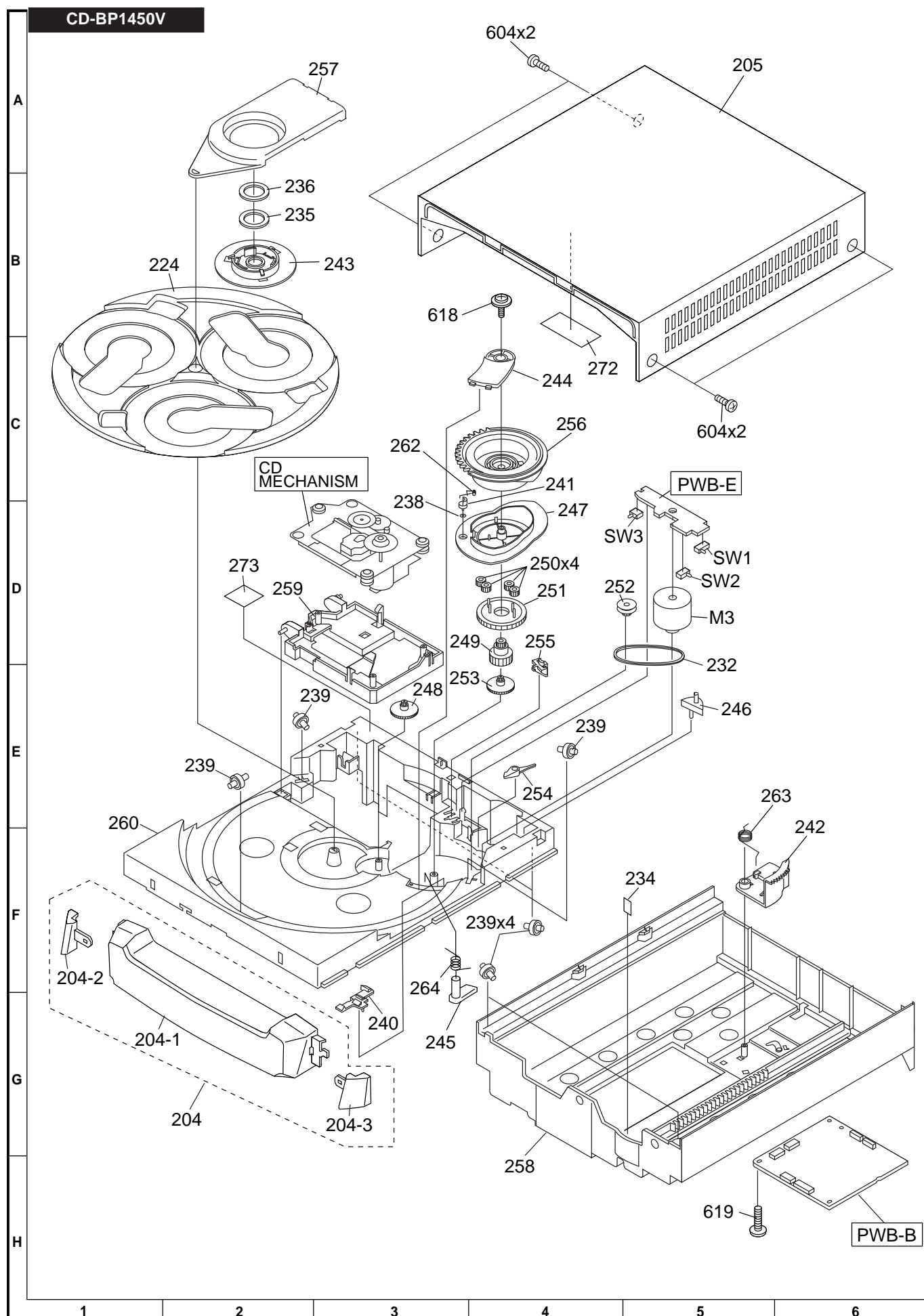


Figure 9 CABINET EXPLODED VIEW (2/2)

CP-BK1450

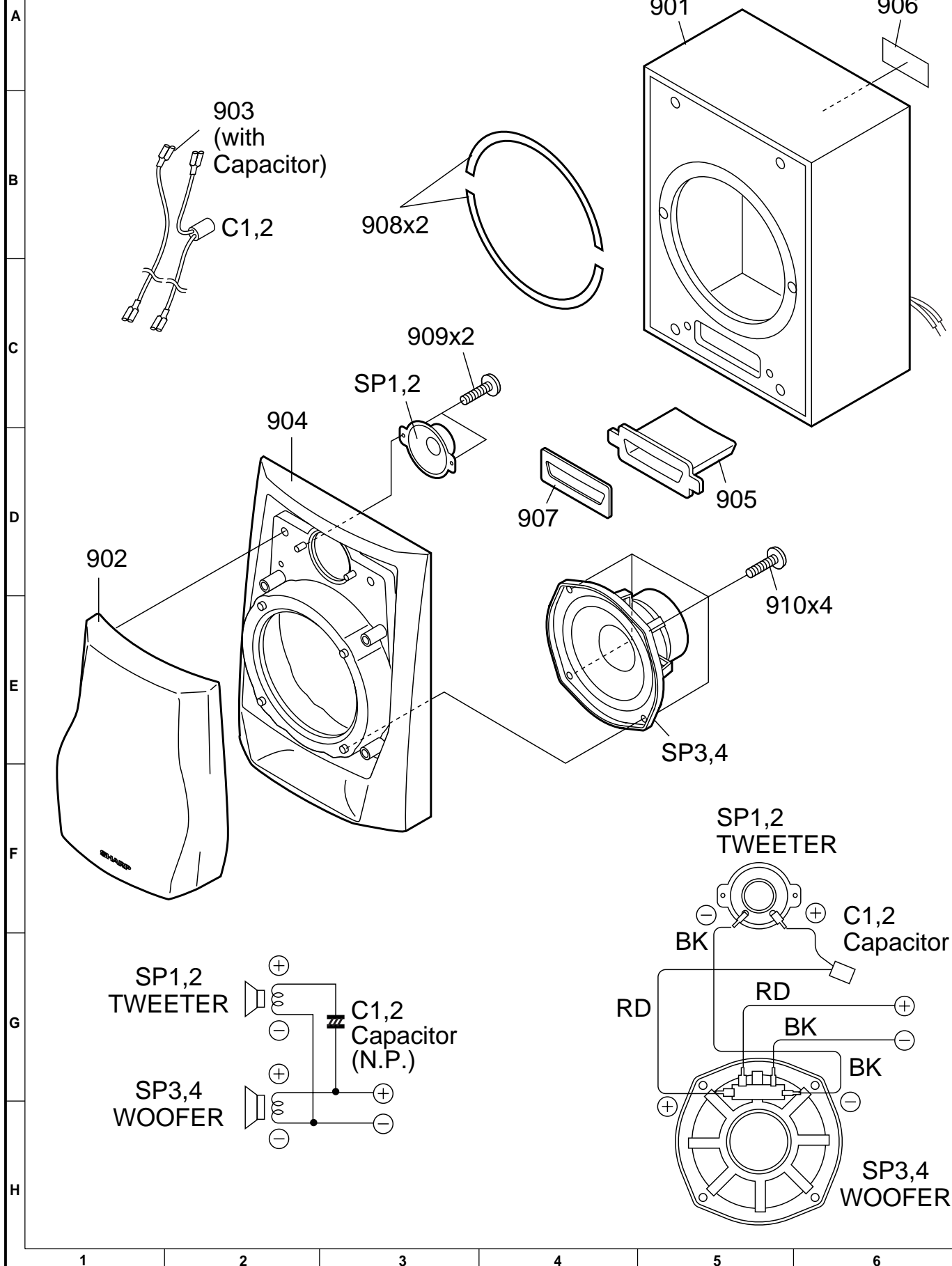


Figure 10 SPEAKER EXPLODED VIEW (1/2)

GBOXS0043AWM1

A
B
C
D
E
F
G
H

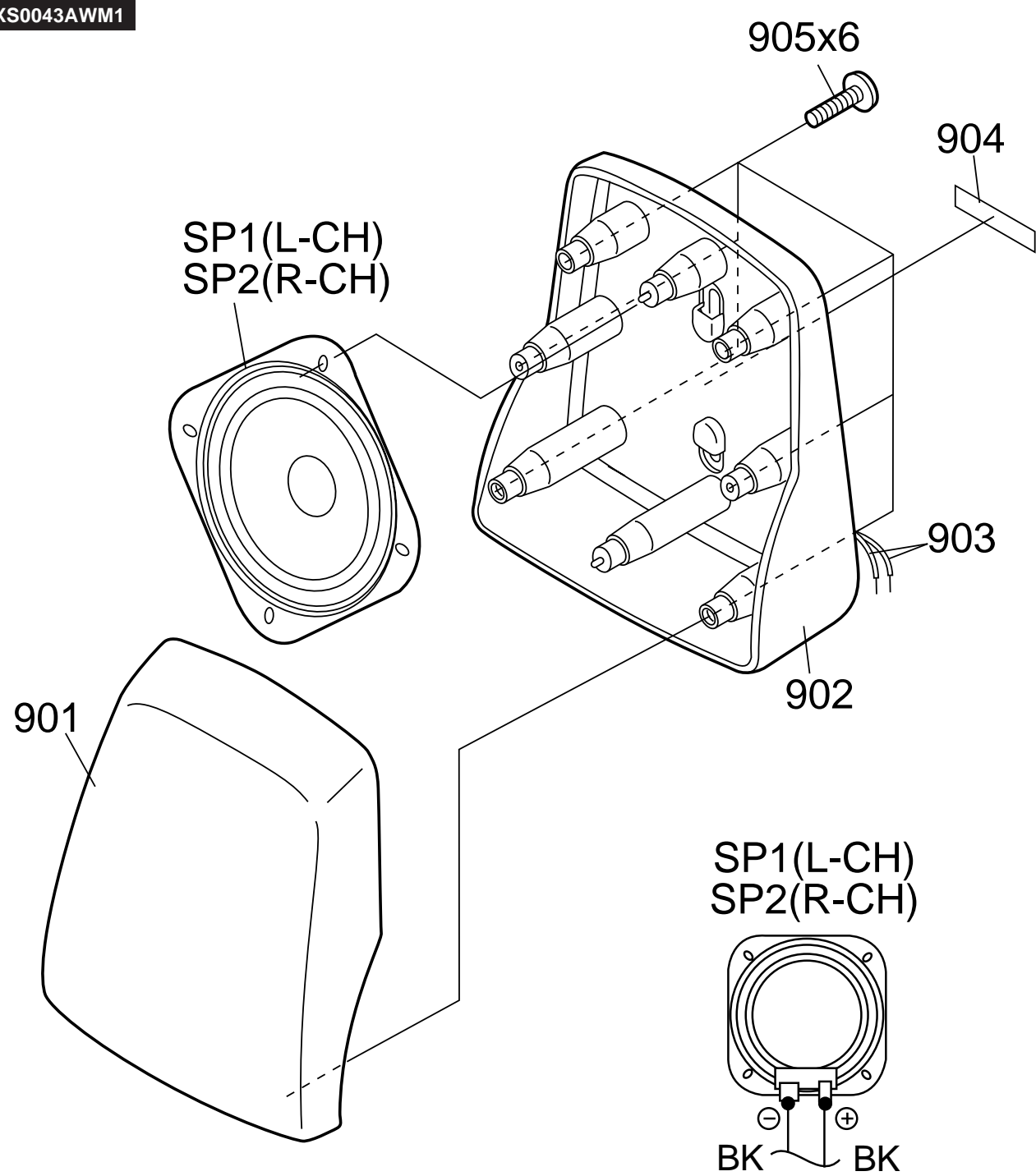


Figure 11 SPEAKER EXPLODED VIEW (2/2)

— MEMO —



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