

SHARP SERVICE MANUAL

No. S5136CDBK250W

MINI COMPONENT SYSTEM

MODEL CD-BK250W

CD-BK250W Mini Component System consisting of CD-BK250W (main unit) and CP-BK250 (speaker system).

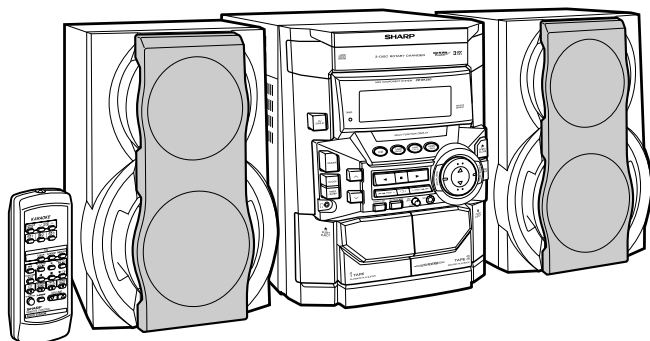


Illustration: CD-BK250W/CD-BK2600W

MINI COMPONENT SYSTEM

MODEL CD-BK2600W

CD-BK2600W Mini Component System consisting of CD-BK2600W (main unit) and CP-BK2600 (speaker system).

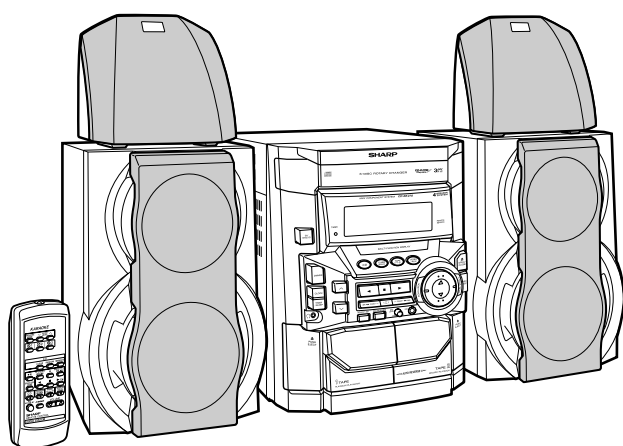


Illustration: CD-BK270W

MINI COMPONENT SYSTEM

MODEL CD-BK270W

CD-BK270W Mini Component System consisting of CD-BK270W (main unit), CP-BK270 (front speakers) and GBOXS0070AWM1 (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.

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SAFETY PRECAUTION FOR SERVICE MANUAL

WARNINGS

THE AEL (ACCESSIBLE EMISSION LEVEL) OF THE LASER POWER OUTPUT IS LESS THAN CLASS 1 BUT THE LASER COMPONENT IS CAPABLE OF EMITTING RADIATION EXCEEDING THE LIMIT FOR CLASS 1. THEREFORE IT IS IMPORTANT THAT THE FOLLOWING PRECAUTIONS ARE OBSERVED DURING SERVICING TO PROTECT YOUR EYES AGAINST EXPOSURE TO THE LASER BEAM.

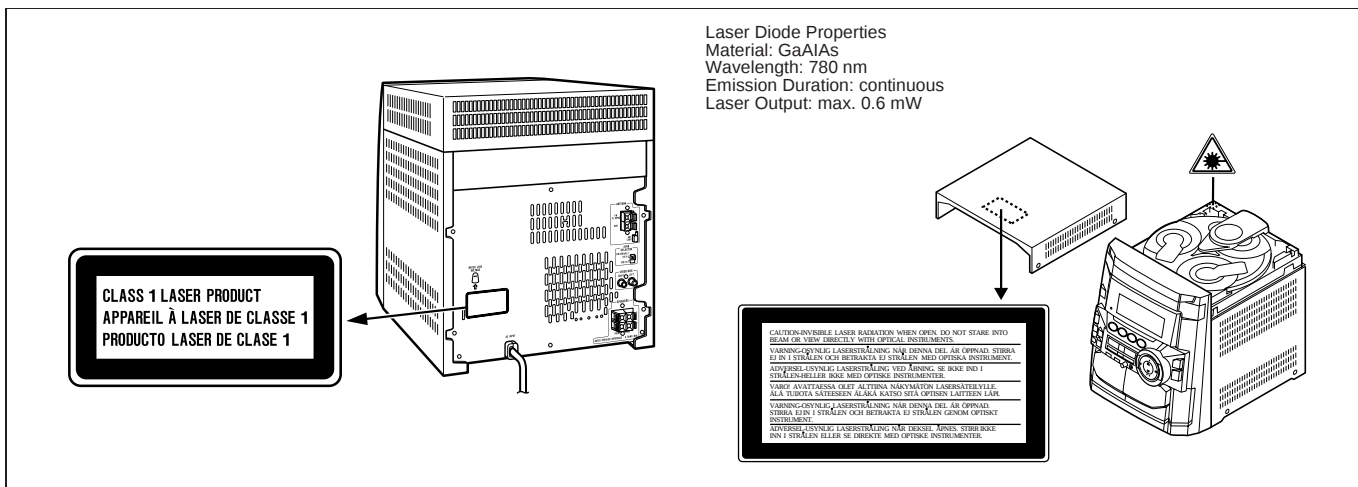
1-WHEN THE CABINET IS REMOVED, THE POWER IS TURNED ON WITHOUT A COMPACT DISC IN POSITION AND THE PICKUP IS ON THE OUTER EDGE THE LASER WILL LIGHT FOR SEVERAL SECONDS TO DETECT A DISC. DO NOT LOOK INTO THE PICKUP LENS.

2-THE LASER POWER OUTPUT OF THE PICKUP UNIT AND REPLACEMENT SERVICE PARTS ARE ALL FACTORY PRESET BEFORE SHIPMENT.

DO NOT ATTEMPT TO READJUST THE LASER PICKUP UNIT DURING REPLACEMENT OR SERVICING.

3-UNDER NO CIRCUMSTANCES STARE INTO THE PICKUP LENS AT ANY TIME.

4-CAUTION-USE OF CONTROLS OR ADJUSTMENTS, OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.



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.

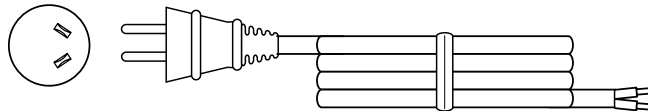
Turn the selector with a screwdriver until the appropriate voltage number appears in the window (110 V, 127 V, 220 V or 230 V-240 V AC).

AC POWER SUPPLY CORD AND AC PLUG ADAPTOR

QACCA0003AW00



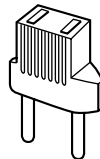
QACCL0005AW00



QACCE0010AW00



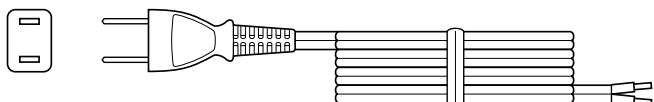
QPLGA0003AWZZ



QPLGA0004AWZZ



QACCJ0007AW00



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

SPECIFICATIONS

CD-BK250W/CD-BK2600W

General

Power source	AC 110/127/220/230 - 240 V, 50/60 Hz
Power consumption	130 W
Dimensions	Width: 270 mm (10-11/16") Height: 330 mm (13") Depth: 340 mm (13-3/8")
Weight	7.2 kg (15.7 lbs.)

Amplifier

Output power	MPO: 240 W (120 W + 120 W) (10 % T.H.D.) RMS: 150 W (75 W + 75 W) (10 % T.H.D.) RMS: 104 W (52 W + 52 W) (0.9 % T.H.D.)
Output terminals	Speakers: 6 ohms Headphones: 16 - 50 ohms (recommended: 32 ohms)
Input terminals	Video/Auxiliary (audio signal): 500 mV/47 kohms Microphone: 1 mV/600 ohms

CD player

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

Frequency range	FM: 88 - 108 MHz AM: 531 - 1,602 kHz
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Cassette deck

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-BK250/CP-BK2600

Type	2-way type speaker system 5 cm (2") Tweeter 13 cm (5-1/4") Woofer
Maximum input power	150 W
Rated input power	75 W
Impedance	6 ohms
Dimensions	Width: 220 mm (8-11/16") Height: 330 mm (13") Depth: 217 mm (8-9/16")
Weight	3.0 kg (6.6 lbs.)/each

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

CD-BK270W

General

Power source	AC 110/127/220/230 - 240 V, 50/60 Hz
Power consumption	130 W
Dimensions	Width: 270 mm (10-11/16") Height: 330 mm (13") Depth: 340 mm (13-3/8")
Weight	7.4 kg (16.1 lbs.)

Amplifier

Output power	Front speakers: MPO: 160 W (80 W + 80 W) (10 % T.H.D.) RMS: 100 W (50 W + 50 W) (10 % T.H.D.) RMS: 70 W (35 W + 35 W) (0.9 % T.H.D.) Surround speakers: MPO: 80 W (40 W + 40 W) (10 % T.H.D.) RMS: 50 W (25 W + 25 W) (10 % T.H.D.) RMS: 34 W (17 W + 17 W) (0.9 % T.H.D.)
Output terminals	Front speakers: 8 ohms Surround speakers: 16 ohms Headphones: 16 - 50 ohms (recommended: 32 ohms)
Input terminals	Video/Auxiliary (audio signal): 500 mV/47 kohms Microphone: 1 mV/600 ohms

CD player

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

Frequency range	FM: 88 - 108 MHz AM: 531 - 1,602 kHz
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Cassette deck

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-BK270

Type	2-way type speaker system 5 cm (2") Tweeter 13 cm (5-1/4") Woofer
Maximum input power	100 W
Rated input power	50 W
Impedance	8 ohms
Dimensions	Width: 220 mm (8-11/16") Height: 330 mm (13") Depth: 217 mm (8-9/16")
Weight	3.0 kg (6.6 lbs.)/each

GBOXS0070AWM1

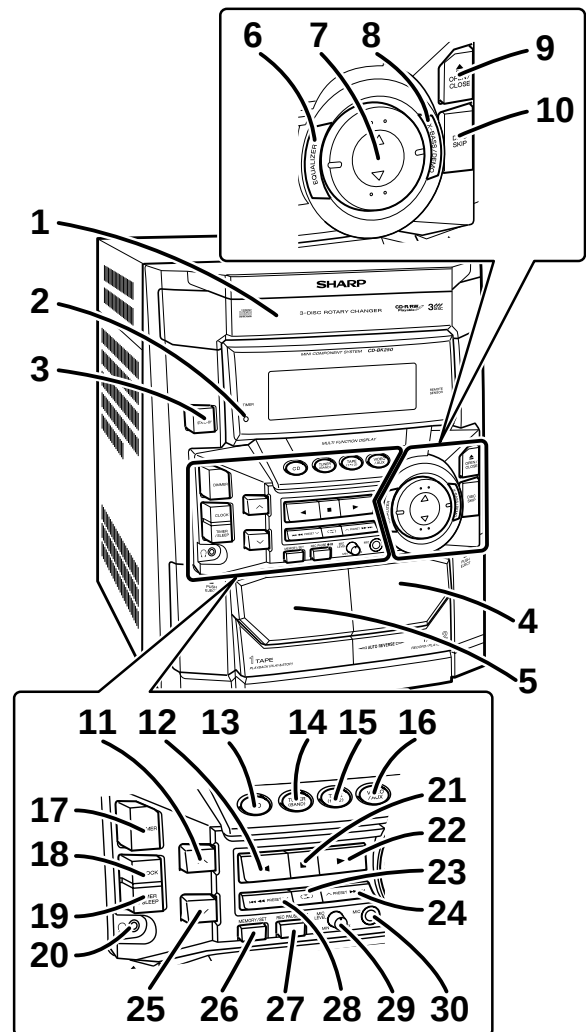
Type	10 cm (4") full-range speaker
Maximum input power	50 W
Rated input power	25 W
Impedance	16 ohms
Dimensions	Width: 200 mm (7-7/8") Height: 93 mm (3-11/16") Depth: 170 mm (6-3/4")
Weight	0.5 kg (1.1 lbs.)/each

NAMES OF PARTS

■ Front panel

CD-BK250W/CD-BK2600W/CD-BK270W

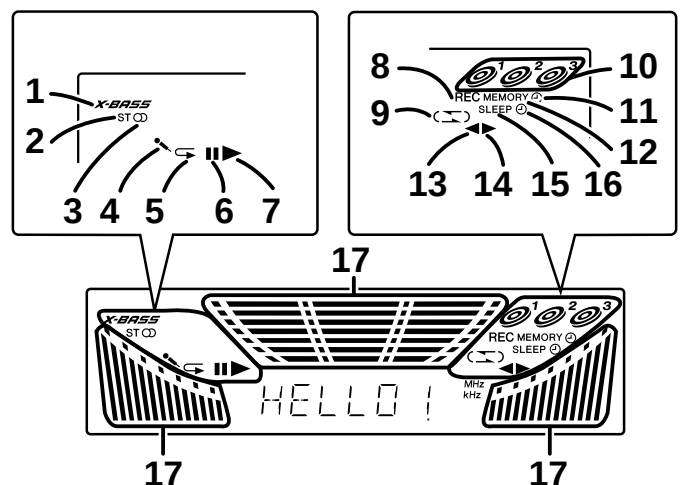
1. Disc Tray
2. Timer Set Indicator
3. On/Stand-by Button
4. Tape 2 Cassette Compartment
5. Tape 1 Cassette Compartment
6. Equalizer Mode Select Button
7. Volume Up and Down Buttons
8. Extra Bass/Demo Mode Button
9. Disc Tray Open/Close Button
10. Disc Skip Button
11. Tuning and Time Up Button
12. Tape 2 Reverse Play Button
13. CD Button
14. Tuner (Band) Button
15. Tape (1-2) Button
16. Video/Auxiliary Button
17. Dimmer Button
18. Clock Button
19. Timer/Sleep Button
20. Headphone Socket
21. CD or Tape Stop Button
22. CD Play, Tape 1 Play or Tape 2 Forward Play Button
23. Tape 2 Reverse Mode Select Button
24. CD Track Up or Fast Forward, Tape 2 Fast Wind, Tuner Preset Up Button
25. Tuning and Time Down Button
26. Memory/Set Button
27. Tape 2 Record Pause Button
28. CD Track Down or Fast Reverse, Tape 2 Fast Wind, Tuner Preset Down Button
29. Microphone Level Control
30. Microphone Socket



■ Display

CD-BK250W/CD-BK2600W/CD-BK270W

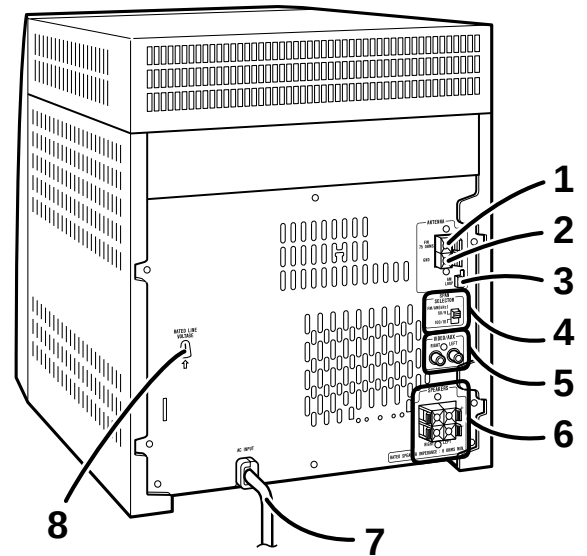
1. Extra Bass Indicator
2. FM Stereo Mode Indicator
3. FM Stereo Receiving Indicator
4. Karaoke Mode Indicator
5. CD Repeat Play Indicator
6. CD Pause Indicator
7. CD Play Indicator
8. Tape 2 Record Indicator
9. Tape Reverse Mode Indicator
10. Disc Number Indicators
11. Timer Play Indicator
12. Memory Indicator
13. Tape 2 Reverse Play Indicator
14. Tape 1 Play or Tape 2 Forward Play Indicator
15. Sleep Indicator
16. Timer Recording Indicator
17. Spectrum Analyzer/Volume Level Indicator



Rear panel

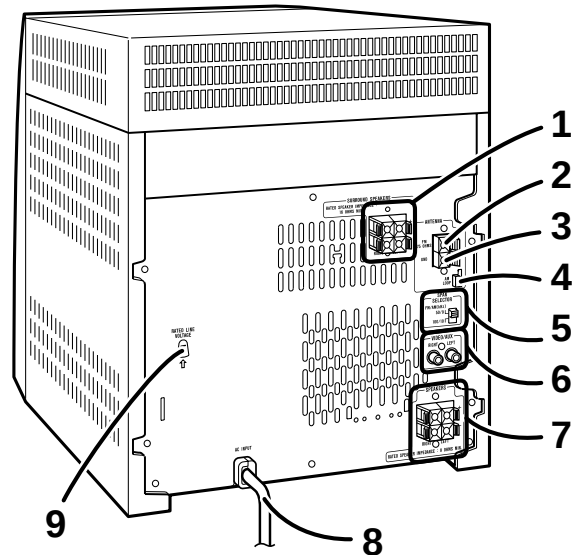
CD-BK250W/CD-BK2600W

1. FM 75 Ohms Aerial Terminal
2. FM Aerial Earth Terminal
3. AM Loop Aerial Socket
4. Span Selector Switch
5. Video/Auxiliary (Audio Signal) Input Sockets
6. Speaker Terminals
7. AC Power Lead
8. AC Voltage Selector



CD-BK270W

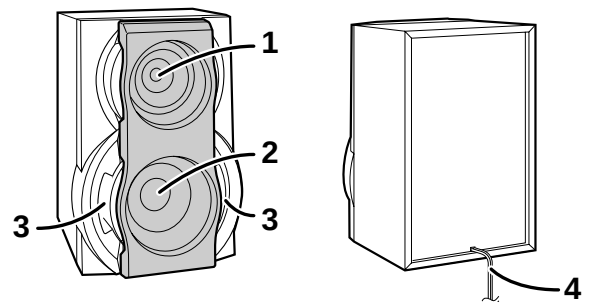
1. Surround Speaker Terminals
2. FM 75 Ohms Aerial Terminal
3. FM Aerial Earth Terminal
4. AM Loop Aerial Socket
5. Span Selector Switch
6. Video/Auxiliary (Audio Signal) Input Sockets
7. Front Speaker Terminals
8. AC Power Lead
9. AC Voltage Selector



Speaker system

CP-BK250/CP-BK2600

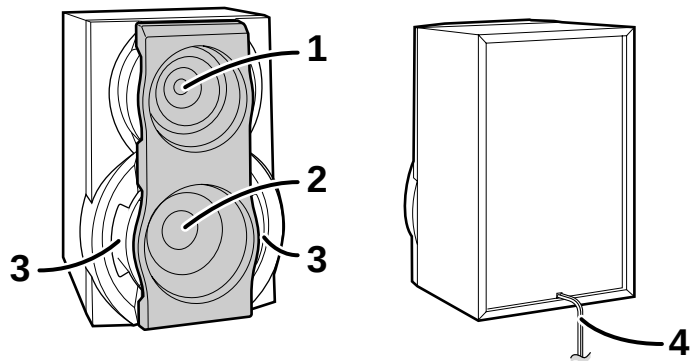
1. Tweeter
2. Woofer
3. Bass Reflex Duct
4. Speaker Wire



■ Front speaker

CP-BK270

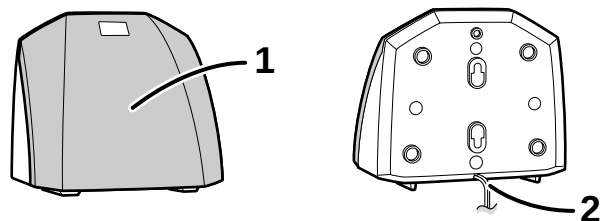
1. Tweeter
2. Woofer
3. Bass Reflex Duct
4. Speaker Wire



■ Surround speaker (CD-BK270W Only)

GBOXS0070AWM1

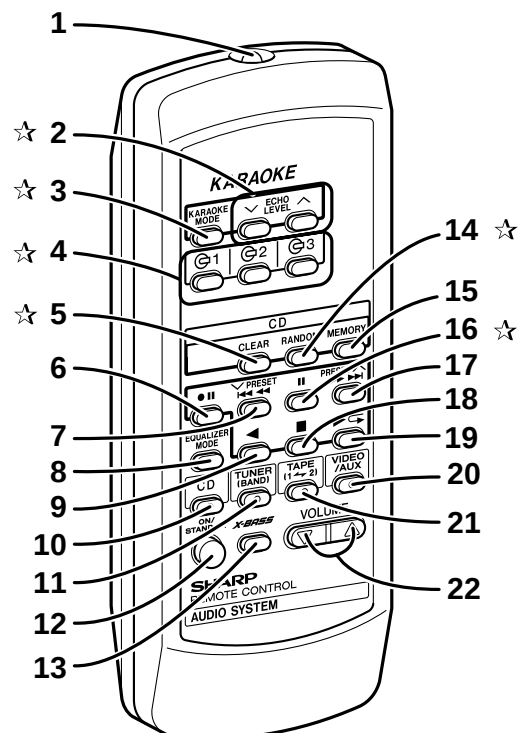
1. Full-Range Speaker
2. Speaker Wire



■ Remote control

CD-BK250W/CD-BK2600W/CD-BK270W

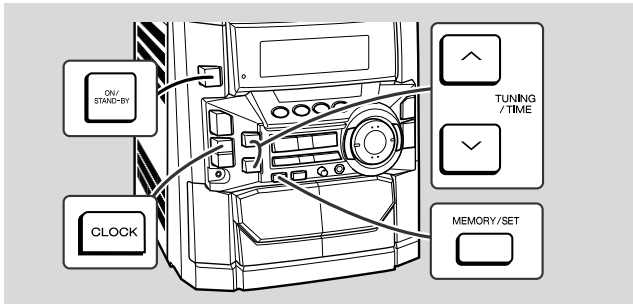
1. Remote Control Transmitter
2. Echo Level Up and Down Buttons
3. Karaoke Mode Button
4. Disc Number Select Buttons
5. CD Clear Button
6. Tape 2 Record Pause Button
7. CD Track Down or Fast Reverse, Tape 2 Fast Wind, Tuner Preset Down Button
8. Equalizer Mode Select Button
9. Tape 2 Reverse Play Button
10. CD Button
11. Tuner (Band) Button
12. On/Stand-by Button
13. Extra Bass Button
14. CD Random Button
15. CD Memory Button
16. CD Pause Button
17. CD Track Up or Fast Forward, Tape 2 Fast Wind, Tuner Preset Up Button
18. CD or Tape Stop Button
19. CD Play or Repeat, Tape 1 Play, Tape 2 Forward Play Button
20. Video/Auxiliary Button
21. Tape (1 ~ 2) Button
22. Volume Up and Down Buttons



Buttons with " ☆ " mark in the illustration can be operated on the remote control only.
Other buttons can be operated both on the main unit and the remote control.

OPERATION MANUAL

Setting the Clock



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

1 Press the ON/STAND-BY button to turn the power on.

2 Press the CLOCK button and within 5 seconds, press the MEMORY/SET button.



3 Press the TUNING/TIME (✓ or ^) button to select 24-hour or 12-hour display and then press the MEMORY/SET button.



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

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

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

Note that this can only be set when the unit is first installed or it has been reset.
[Refer to "Clearing all the memory (reset)".]

4 Press the TUNING/TIME (✓ or ^) button to adjust the hour and then press the MEMORY/SET button.



- Press the TUNING/TIME (✓ 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".

5 Press the TUNING/TIME (✓ or ^) button to adjust the minutes and then press the MEMORY/SET button.



- Press the TUNING/TIME (✓ or ^) button once to advance the time by 1 minute. Hold it down to change the time in 5-minute intervals.
- The hour will not advance even if minutes advance from "59" to "00".
- The clock begins counting from "0" seconds. (Seconds are not displayed.) The time display will disappear after a few seconds.

To confirm the time display:

Press the CLOCK button.

The time display will appear for about 5 seconds.



Note:

The "CLOCK" or time will flash at the push of the CLOCK button when the AC power supply is restored after a power failure or unplugging the unit. Readjust the clock as follows.

To readjust the clock:

Perform "Setting the Clock" from the beginning. If the time display is flashing, step 3 (for selecting the 24-hour or 12-hour display) will be skipped.

To change the 24-hour or 12-hour display:

- 1 Clear all the programmed contents. [Refer to "Clearing all the memory (reset)".]
- 2 Perform "Setting the Clock" from the beginning.

System Connections

■ Setting the AC voltage selector

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.

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).

■ Connecting the AC power lead

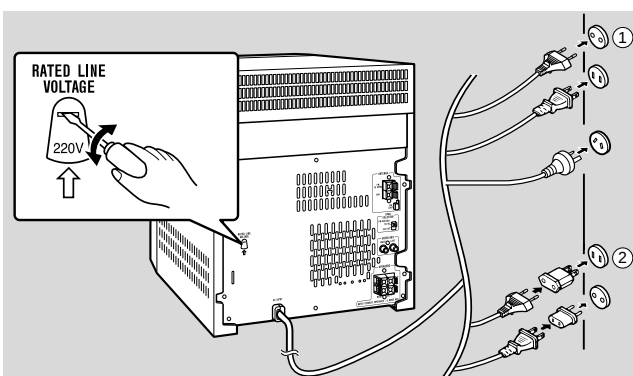
After making all connections, plug the unit. If you plug the unit first, the unit will enter the demonstration mode.

Note:

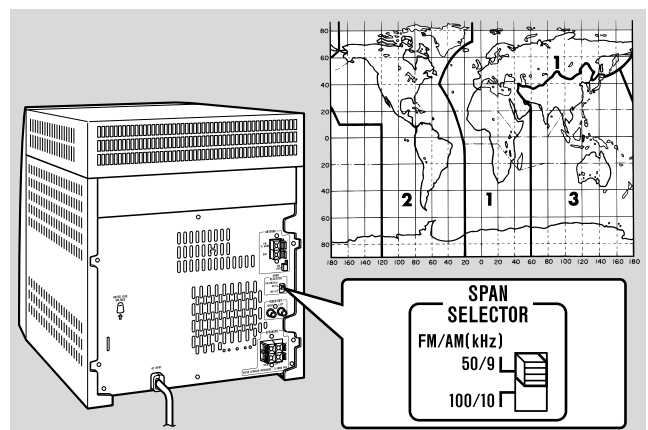
Unplug the AC power lead from the AC socket if the unit will not be in use for a prolonged period of time.

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).



■ Setting the FM/AM span selector



The International Telecommunication Union (ITU) has established that member countries should maintain either a 100 kHz or a 50 kHz interval between broadcasting frequencies of FM stations and 10 kHz or 9 kHz for AM station. The illustration shows the 50/9 kHz zones (regions 1 and 3), and the 100/10 kHz zone (region 2). Before using the unit, set the SPAN SELECTOR switch (on the rear panel) to the 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 (on the rear panel) as follows.
 - For 50 kHz FM interval (9 kHz in AM) → 50/9
 - For 100 kHz FM interval (10 kHz in AM) → 100/10
- 3 Whilst pressing down the ► button and the X-BASS/DEMO button, press the ON/STAND-BY button until "CLEAR AL" appears.

Caution:

This operation will erase all data stored in memory including clock, timer settings, tuner preset, and CD programme.

Troubleshooting Chart

Many potential "problems" can be resolved by the owner without calling a service technician.
If something is wrong with this product, check the following before calling your authorised SHARP dealer or service centre.

General

Symptom	Possible cause
● The clock is not on time.	● Did a power failure occur? Reset the clock.
● When a button is pressed, the unit does not respond.	● Set this unit to the power stand-by mode and then turn it back on. ● If the unit still malfunctions, reset it.
● No sound is heard.	● Is the volume level set to "0"? ● Are the headphones connected? ● Are the speaker wires disconnected? ● Is the karaoke mode set to "L-CH", "R-CH" or "V-CANCEL"?

CD player

Symptom	Possible cause
● Playback does not start.	● Is the disc loaded upside down?
● Playback stops in the middle or is not performed properly.	● Does the disc satisfy the standards? ● Is the disc distorted or scratched?
● Playback sounds are skipped, or stopped in the middle of a track.	● Is the unit located near excessive vibrations? ● Is the disc very dirty? ● Has condensation formed inside the unit?

Tuner

Symptom	Possible cause
● Radio makes unusual noise consecutively.	● Is the unit placed near the TV or computer? ● Is the FM aerial or AM loop aerial placed properly? Move the AC power lead away from the aerial if located near.

Cassette deck

Symptom	Possible cause
● Cannot record.	● Is the erase-prevention tab removed?
● Cannot record tracks with proper sound quality.	● Is it a normal tape? (You cannot record on a metal or CrO ₂ tape.)
● Cannot erase completely.	
● Sound skipping.	● Is there any slack? ● Is the tape stretched?
● Cannot hear treble.	● Are the capstans, pinch rollers, or heads dirty?
● Sound fluctuation.	
● Cannot remove the tape.	● If a power failure occurs during playback, the heads remain engaged with the tape. Do not open the compartment forcibly. Wait until electricity resumes.

Karaoke

Symptom	Possible cause
● The vocal part of a multiplexed disc is not heard.	● Is the karaoke mode set to "L-CH", "R-CH" or "V-CANCEL"?

Remote control

Symptom	Possible cause
● The remote control does not operate.	● Is the AC power lead of the unit plugged in? ● Is the battery polarity respected? ● Are the batteries dead? ● Is the distance or angle incorrect? ● Does the remote control sensor receive strong light?

Troubleshooting Chart

If trouble occurs

When this product is subjected to strong external interference (mechanical shock, excessive static electricity, abnormal supply voltage due to lightning, etc.) or if it is operated incorrectly, it may malfunction.

If such a problem occurs, do the following:

- 1 Set the unit to the stand-by mode and turn the power on again.
- 2 If the unit is not restored in the previous operation, unplug and plug in the unit, and then turn the power on.

Note:

If neither operation above restores the unit, clear all the memory by resetting it.

Clearing all the memory (reset)

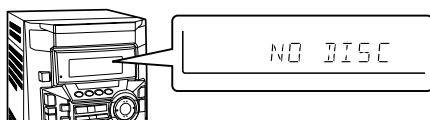
- 1 Press the ON/STAND-BY button to enter the power stand-by mode.
- 2 Whilst pressing down the ► button and the X-BASS/DEMO button, press the ON/STAND-BY button until "CLEAR AL" appears.

Caution:

This operation will erase all data stored in memory including clock, timer settings, tuner preset, and CD programme.

Before transporting the unit

- 1 Press the ON/STAND-BY button to turn the power on.
- 2 Press the CD button.
- 3 Press the ▲ OPEN/CLOSE button to open the disc tray.
Remove all CDs inserted in the unit.
- 4 Press the ▲ OPEN/CLOSE button to close the disc tray.
Make sure that "NO DISC" is displayed.
- 5 Press the ON/STAND-BY button to enter the stand-by mode, and then unplug the AC power lead from the AC socket.



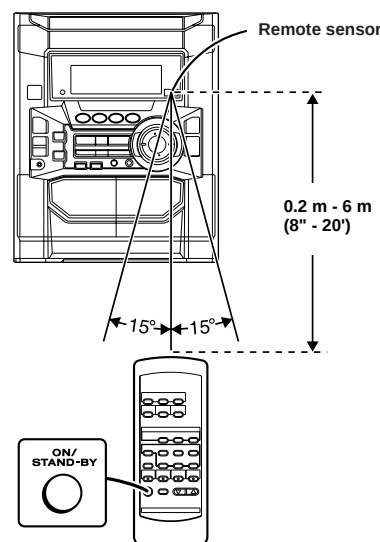
Remote Control

Test of the remote control

Face the remote control directly to the remote sensor on the unit.

The remote control can be used within the range shown below:

Press the ON/STAND-BY button. Does the power turn on? Now, you can enjoy the music.



Notes concerning use:

- Replace the batteries if the operating distance is reduced or if the operation becomes erratic. Purchase 2 "AA" size batteries (UM/SUM-3, R6, HP-7 or similar).
- Periodically clean the transmitter on the remote control and the sensor on the unit with a soft cloth.
- Exposing the sensor on the unit to strong light may interfere with operation. Change the lighting or the direction of the unit.
- Keep the remote control away from moisture, heat, shock, and vibrations.

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.

Note 1: How to open the changer manually. (Fig. 10-1)

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. 10-2)
3. After that, push forward the slide chassis.

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.

CD-BK250W/CD-BK2600W/CD-BK270W

STEP	REMOVAL	PROCEDURE	FIGURE
1	Top Cabinet	1. Screw (A1) x4	9-1
2	Side Panel (Left/Right)	1. Screw (B1) x8	9-1
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. Socket (C4) x2	9-2
4	Rear Panel with Fan Motor	1. Screw (D1) x11 (For CD-BK250W/CD-BK2600W) 1. Screw (D1) x14 (For CD-BK270W) 2. Socket (D2) x1 (For CD-BK250W/CD-BK2600W) 2. Socket (D2) x2 (For CD-BK270W)	9-2
5	Main PWB	1. Screw (E1) x3 2. Socket (E2) x4 3. Flat Cable (E3) x1 4. Flat Wire (E4) x1	9-2,10-3
6	Front Panel	1. Screw (F1) x2	10-3
7	Display PWB	1. Knob (G1) x1 2. Screw (G2) x12 3. Flat Cable (G3) x1	10-4
8	Tape Mechanism	1. Open the cassette holder. 2. Screw (H1) x5	10-4
9	Headphones PWB	1. Screw (J1) x1	10-4
10	Mic PWB	1. Screw (K1) x2 2. Tip (K2) x1 (CD-BK270W Only)	10-4
11	Turntable	1. Hook (L1) x2 2. Cover (L2) x1	10-5
12	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 chassis backward to engage the claw with the groove and remove it in the direction of the arrow. (M1) x6	10-1 10-2 10-6
13	CD Servo PWB (Note 2)	1. Screw (N1) x1 2. Hook (N2) x2 3. Socket (N3) x4	11-1
14	CD Mechanism	1. Hook (P1) x2 2. Hook (P2) x3	11-2

CD-BK250W/CD-BK2600W/CD-BK270W

Illustration: CD-BK270W

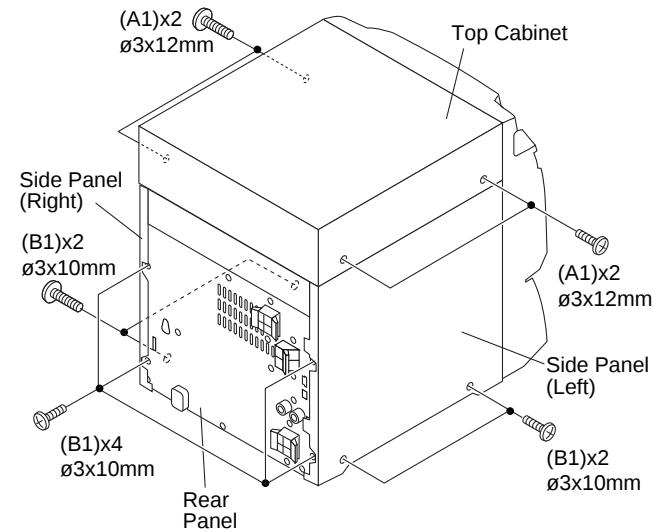


Figure 9-1

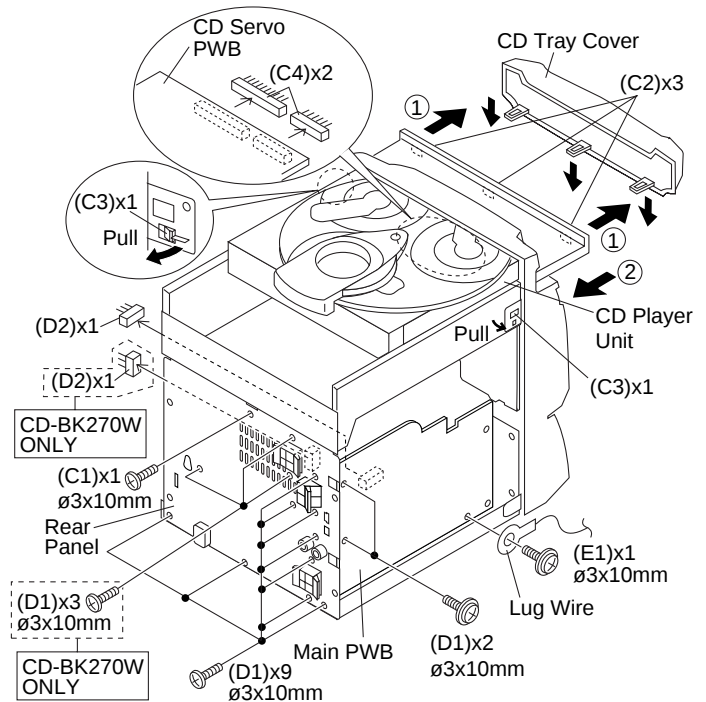


Figure 9-2

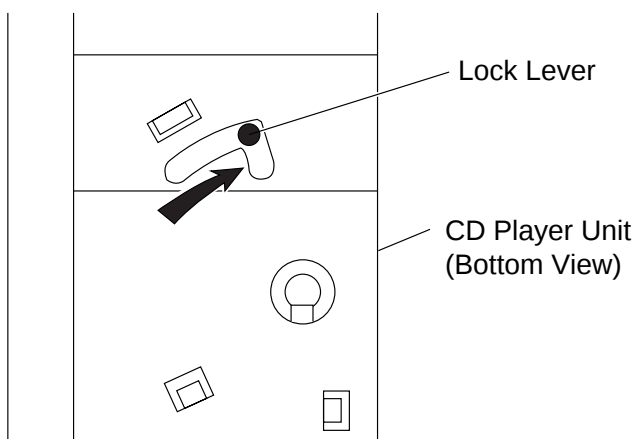


Figure 10-1

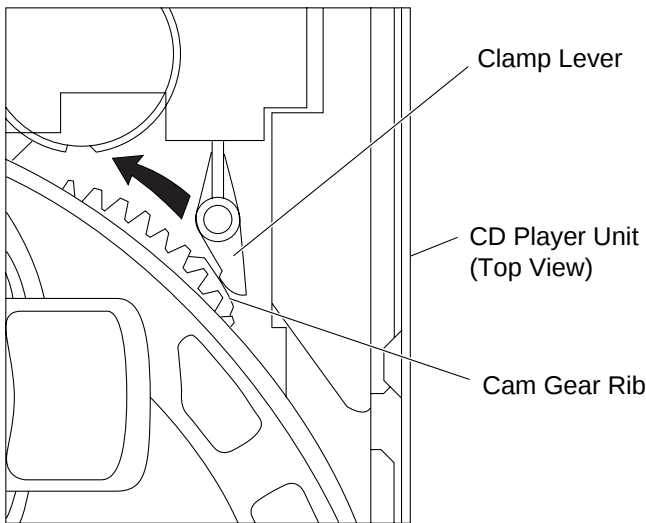


Figure 10-2

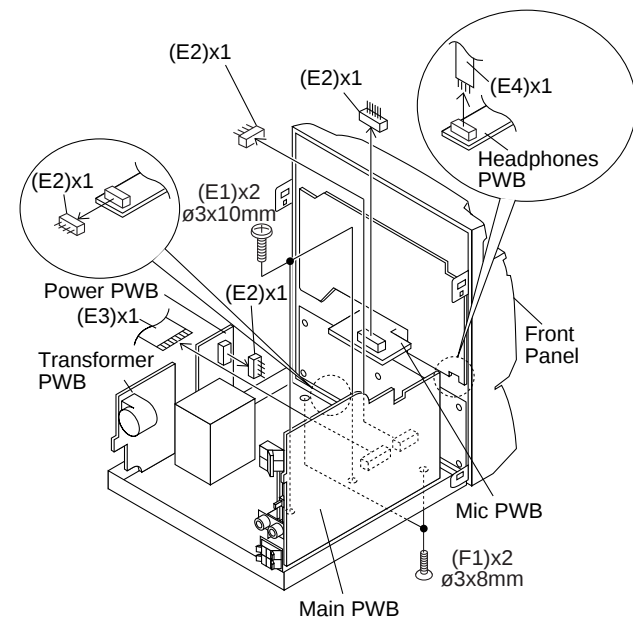


Figure 10-3

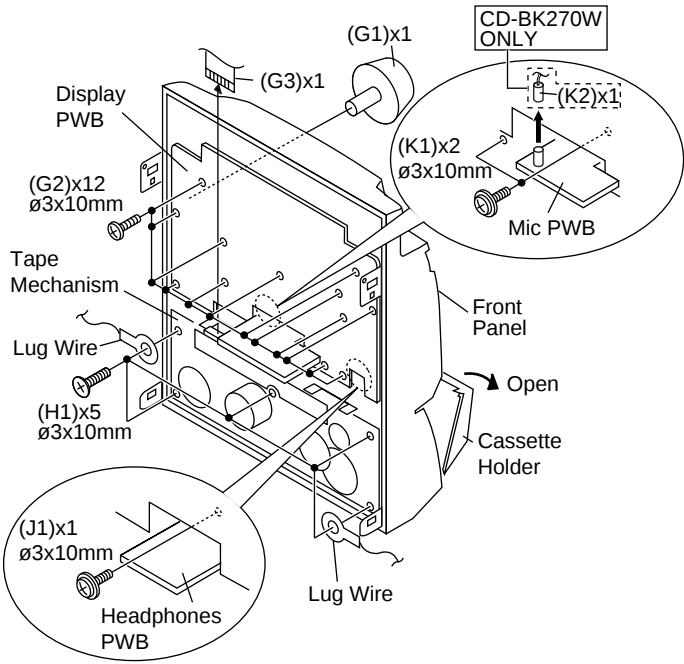


Figure 10-4

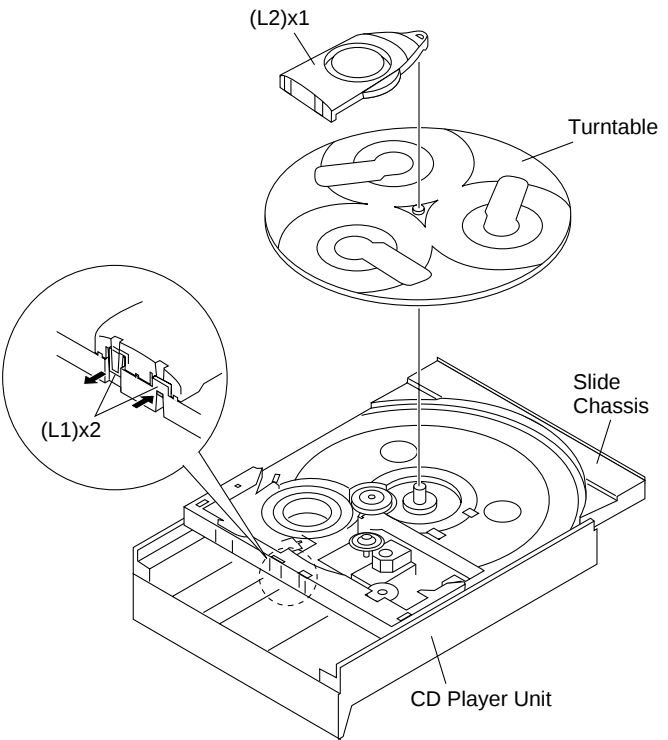


Figure 10-5

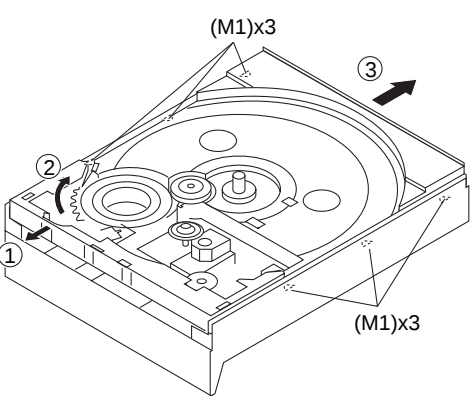


Figure 10-6

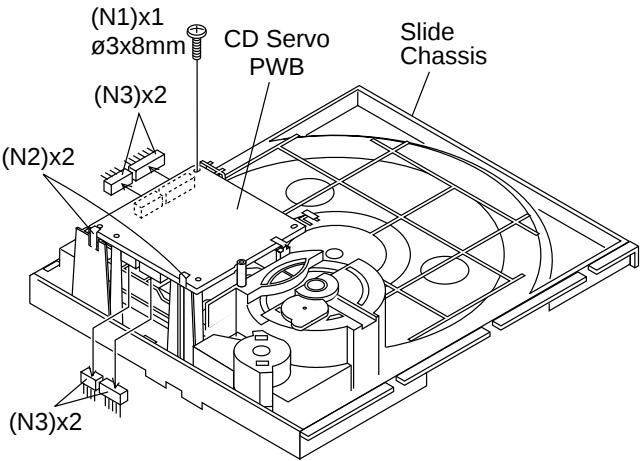


Figure 11-1

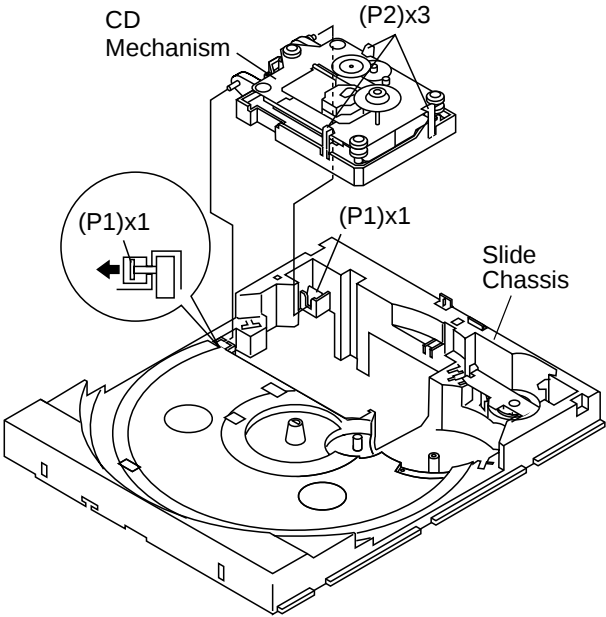


Figure 11-2

CP-BK250/CP-BK2600/CP-BK270			
STEP	REMOVAL	PROCEDURE	FIGURE
1	Front Panel	1. Net (A1) x1	11-3
2	Woofer	1. Screw (B1) x4	11-4
3	Tweeter	1. Screw (C1) x2	11-4

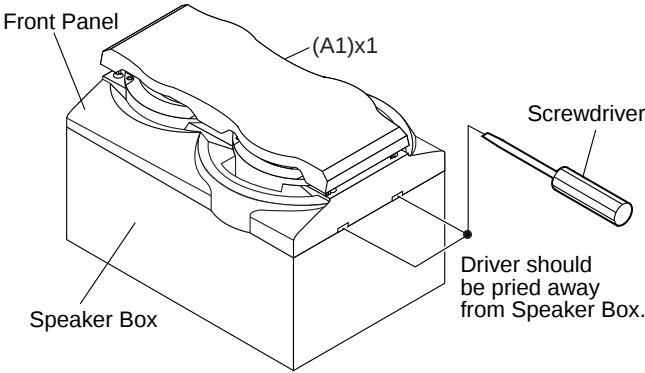


Figure 11-3

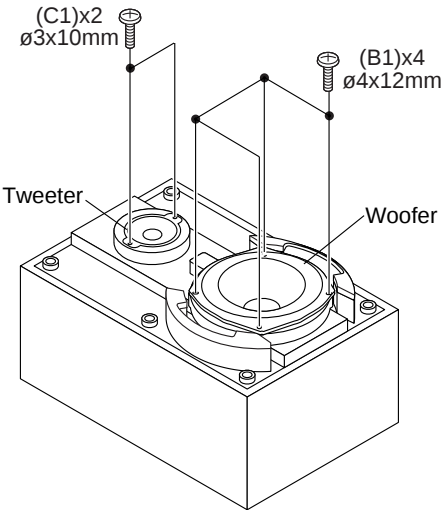


Figure 11-4

REMOVING AND REINSTALLING THE MAIN PARTS

TAPE MECHANISM SECTION

Perform steps 1 to 6 and 8 of the disassembly method to remove the tape mechanism.

How to remove the record/playback and erase heads (TAPE 2) (See Fig. 12-1)

1. When you remove the screws (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. 12-2)

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

How to remove the pinch roller (TAPE 1/2) (See Fig. 12-3)

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 .

Note:

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

How to remove the belt (TAPE 2) (See Fig. 12-4)

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. 12-4)

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. 12-5)

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

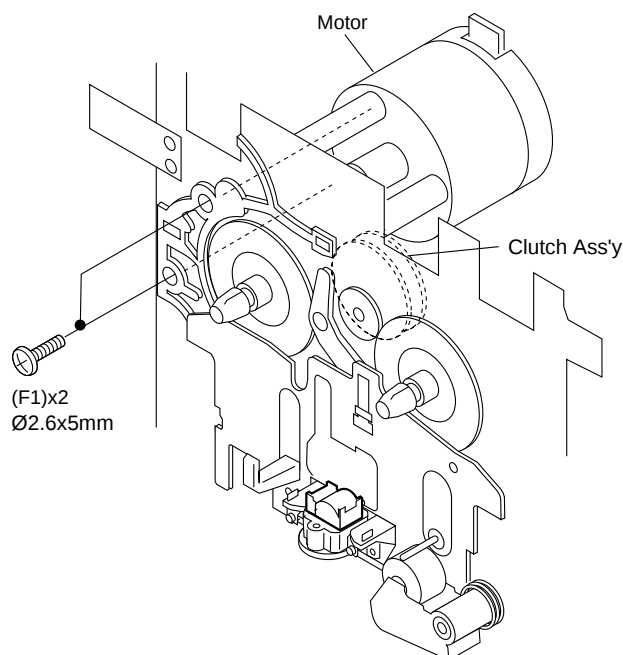


Figure 12-5

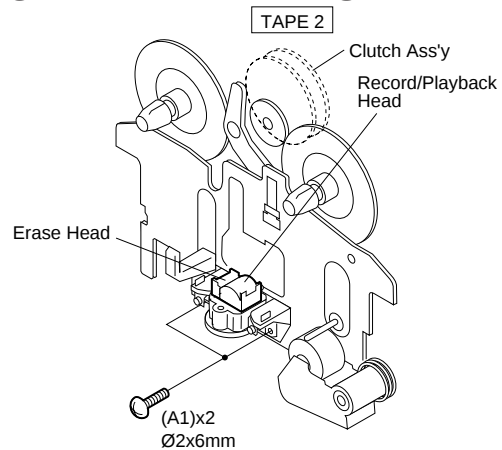


Figure 12-1

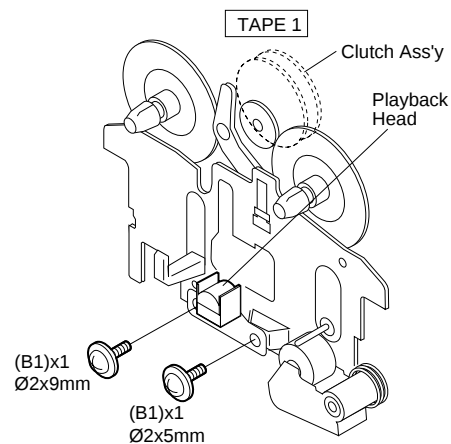


Figure 12-2

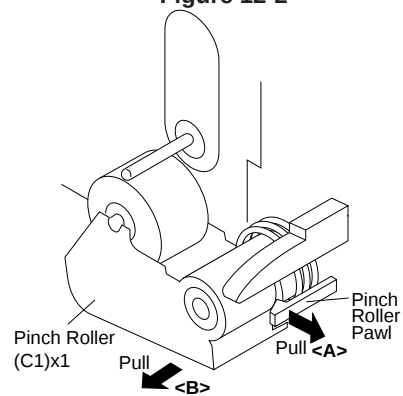


Figure 12-3

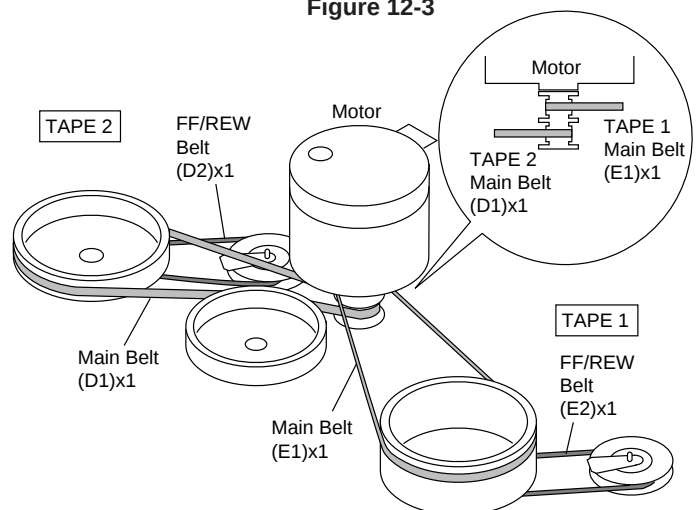


Figure 12-4

CD MECHANISM SECTION

Perform steps 1, 2, 3, 11,12, 13 and 14 of the disassembly method to remove the CD mechanism.

How to remove the loading motor

(See Fig. 13-1)

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

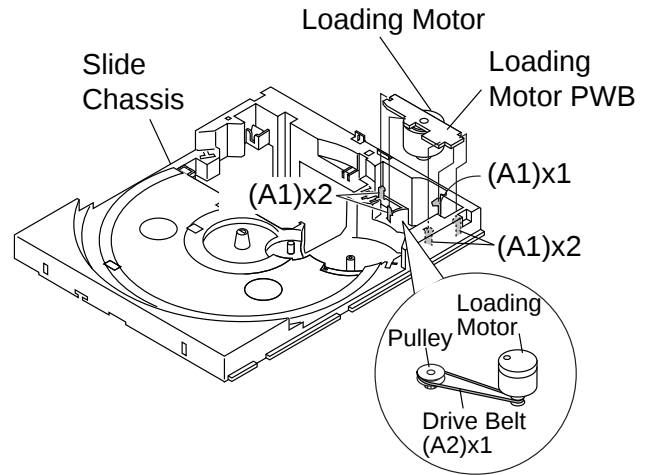


Figure 13-1

How to remove the pickup (See Fig. 13-2)

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

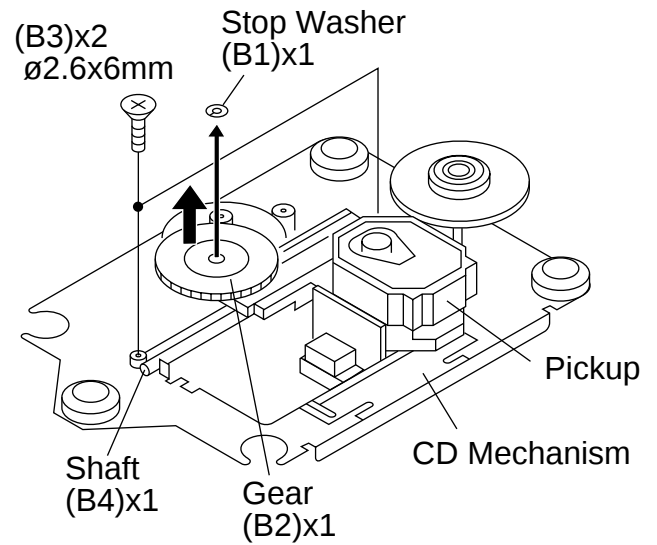


Figure 13-2

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.	3,000 ± 30 Hz	Speaker Terminal (Load resistance: 6 ohms)

TAPE MECHANISM

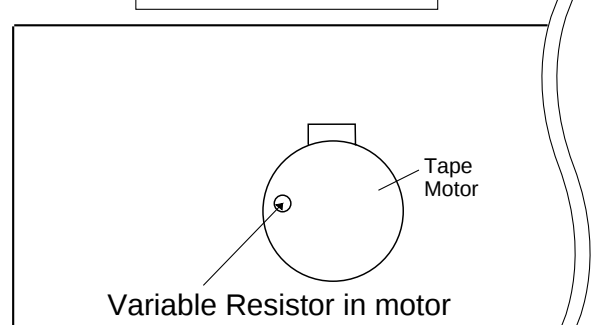


Figure 13-3

CD-BK250W/CD-BK2600W/CD-BK270W

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	1,602 kHz	T351	*1
AM Band Coverage	—	531 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

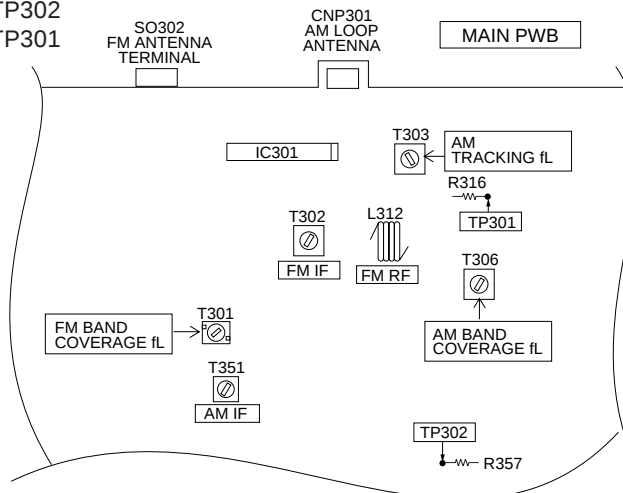


Figure 14-1 ADJUSTMENT POINTS

• FM RF

Signal generator: 1 kHz, 40 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 ± 0.1 V	*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

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

- 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
- Tracking balance adjustment (waveform drawing Fig.14-2 EFBL)
- 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]
0002	Cannot detect Pickup-in SW
0101	Open/Close SW not functioning (Low → High)
0103	Open/Close SW not functioning (High → Low)
0201	[Error during open operation]
0203	Open/Close SW not functioning (Low → High)
0203	Open/Close SW not functioning (High → Low)
0302	[Error during skip operation]
0306	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)

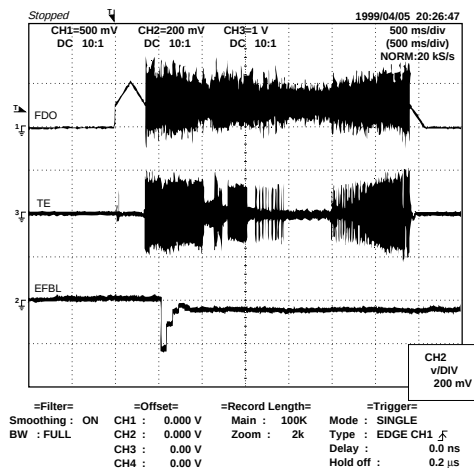


Figure 14-2

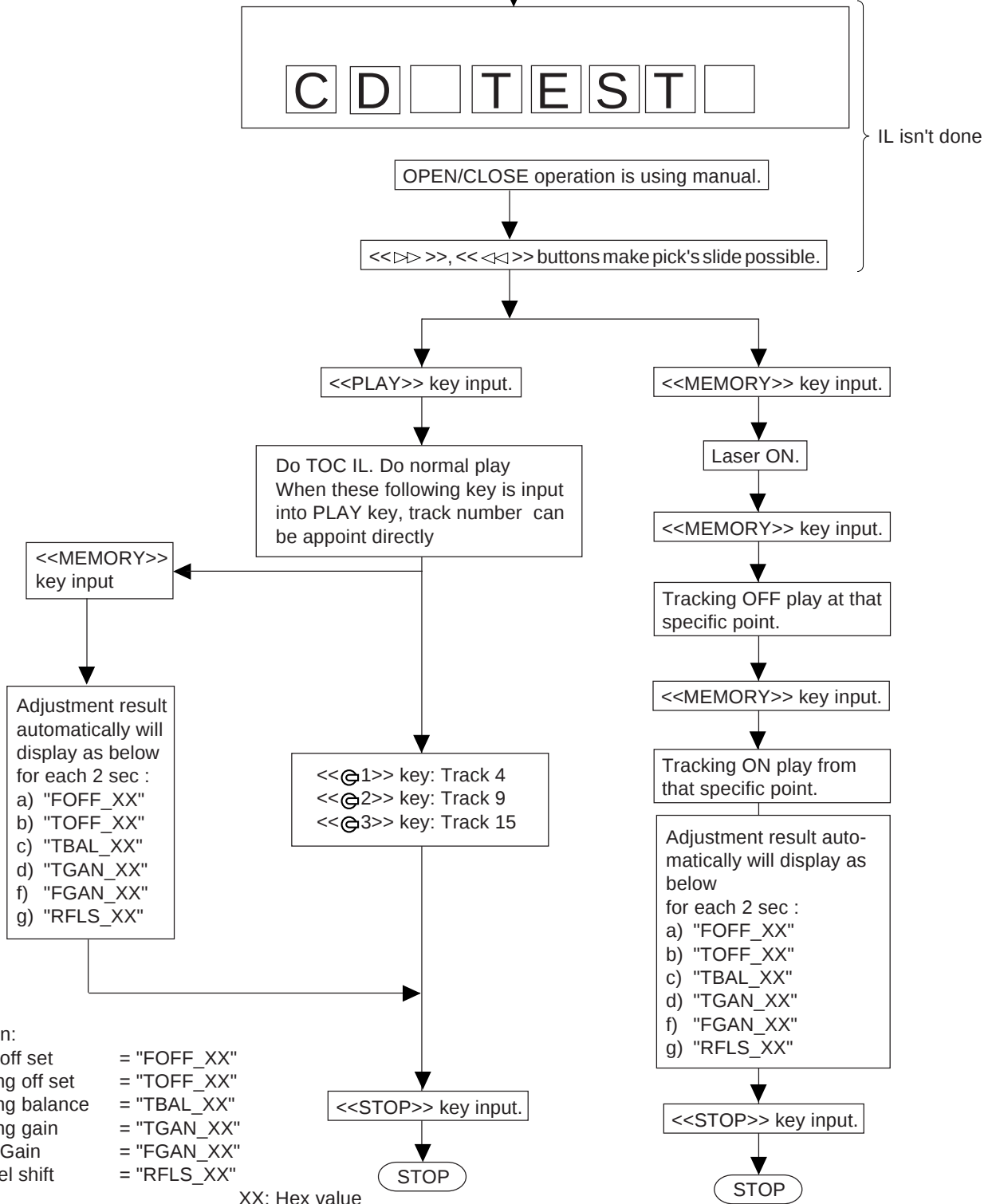
TEST MODE

• 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>> >>, << K>> button
must only be in STOP mode.

CD-BK250W/CD-BK2600W/CD-BK270W

Standard Specification of Stereo System Error Message Display Contents

Error Contents		DISPLAY	Notes
Output while Device Protection Operation		'PROTECT'	00: While in Protect Circuit Operate 01: Over Current Detection 02: DC Detection 03:
TAPE	Mechanism Error	'ER-TA**'	00: Tape Mechanism Error 01: Initial Error 02: 03:
CD/VCD	Pickup Mechanism Error	'ER-CD**'	00: Pickup Mechanism Error 01: PU-IN SW Detection NG 02: 03: 04:
	CD Changer Mechanism Error	'ER-CD**'	10: Changer Error 11: Initial Error 12: 13:
	Tray Error	'ET-CD**'	20: Tray Error 21: 22: 23:
	Focus Not Match	'NO DISC'	
	IL Time Over	'NOT READ'	
TUN	PLL Unlock	'ER-TU**'	00: TUN Error 01: PLL Unlock 02: 03:

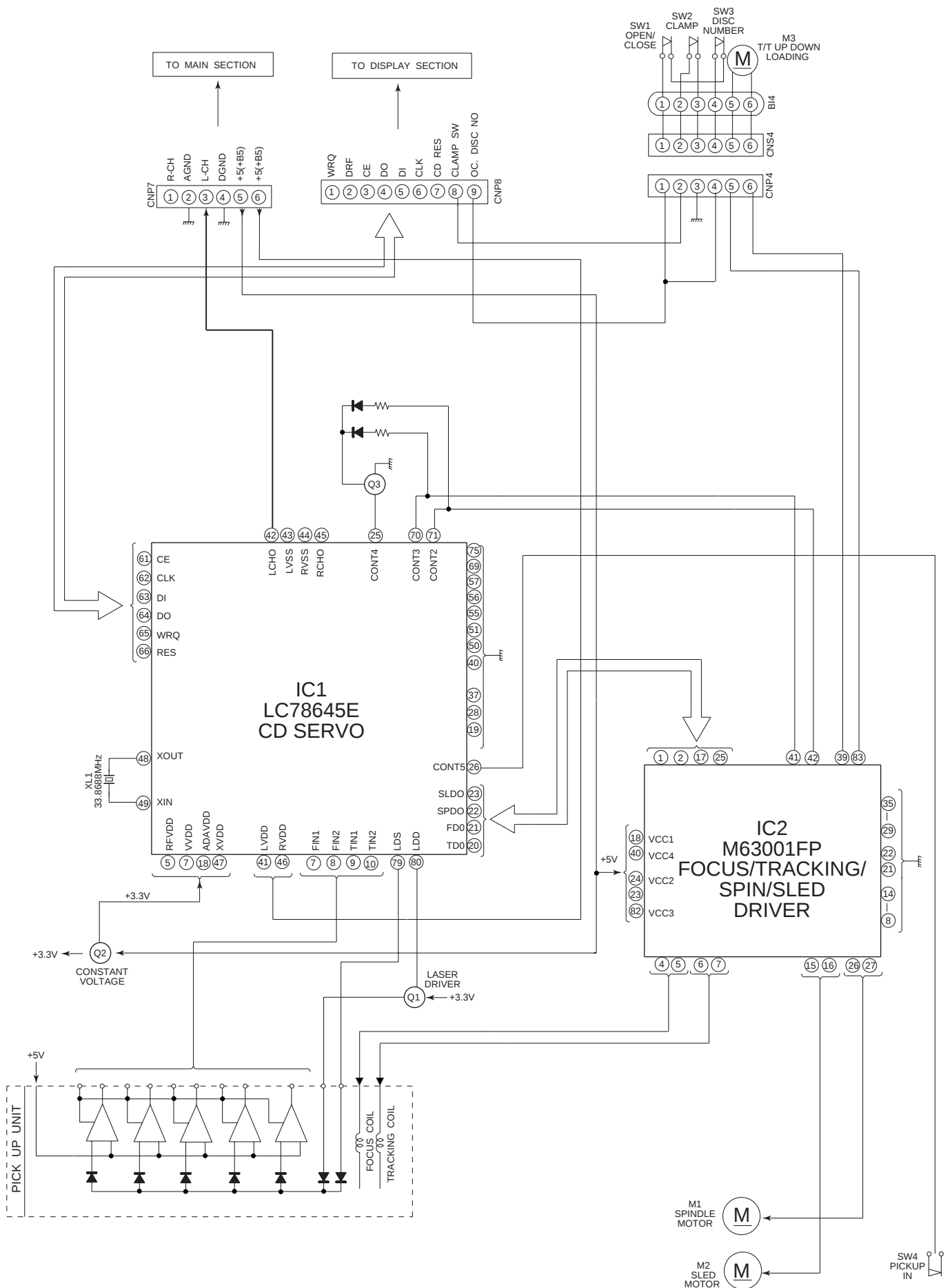


Figure 17 BLOCK DIAGRAM (1/3)

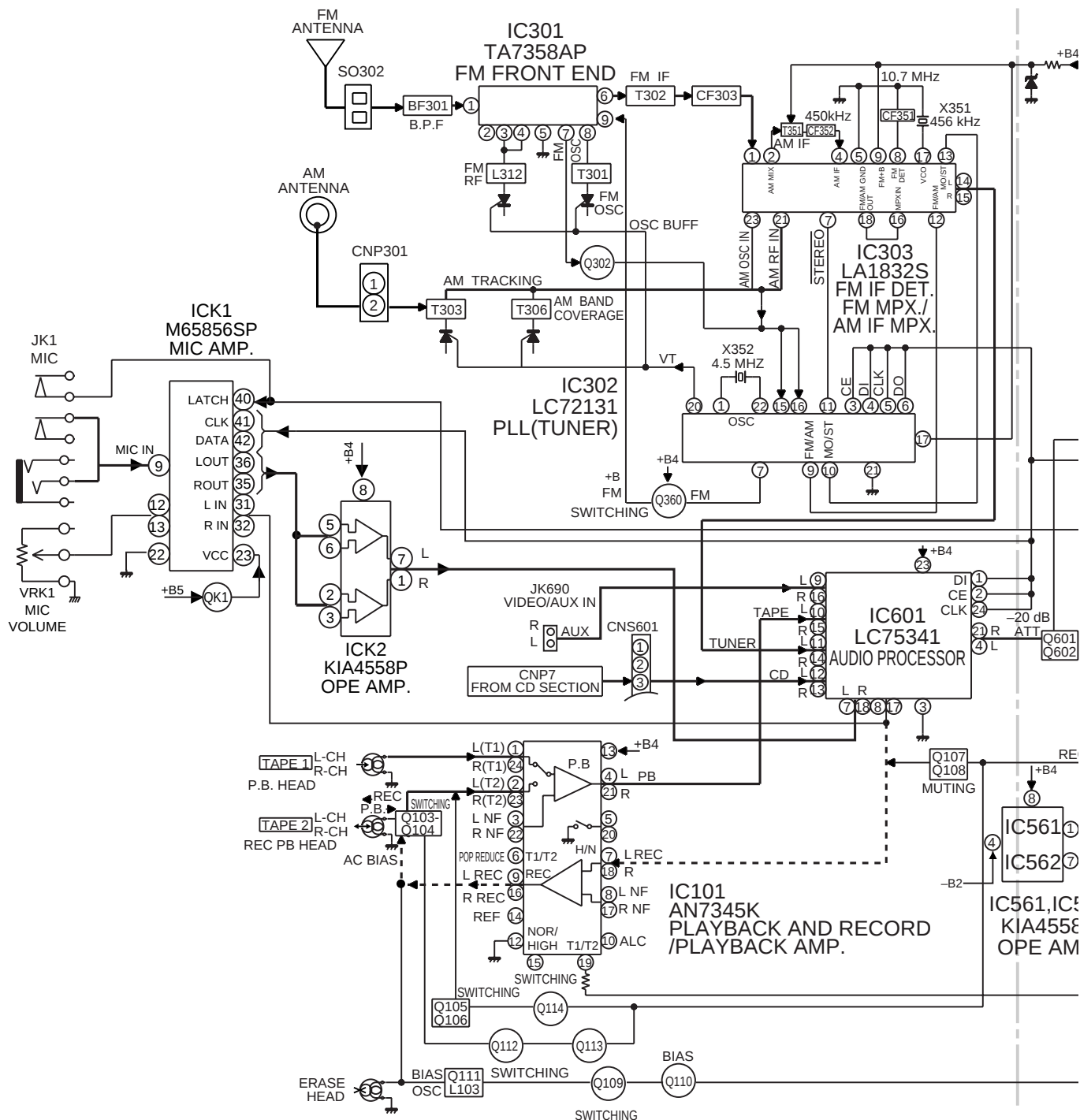


Figure 18 BLOCK DIAGRAM (2/3)

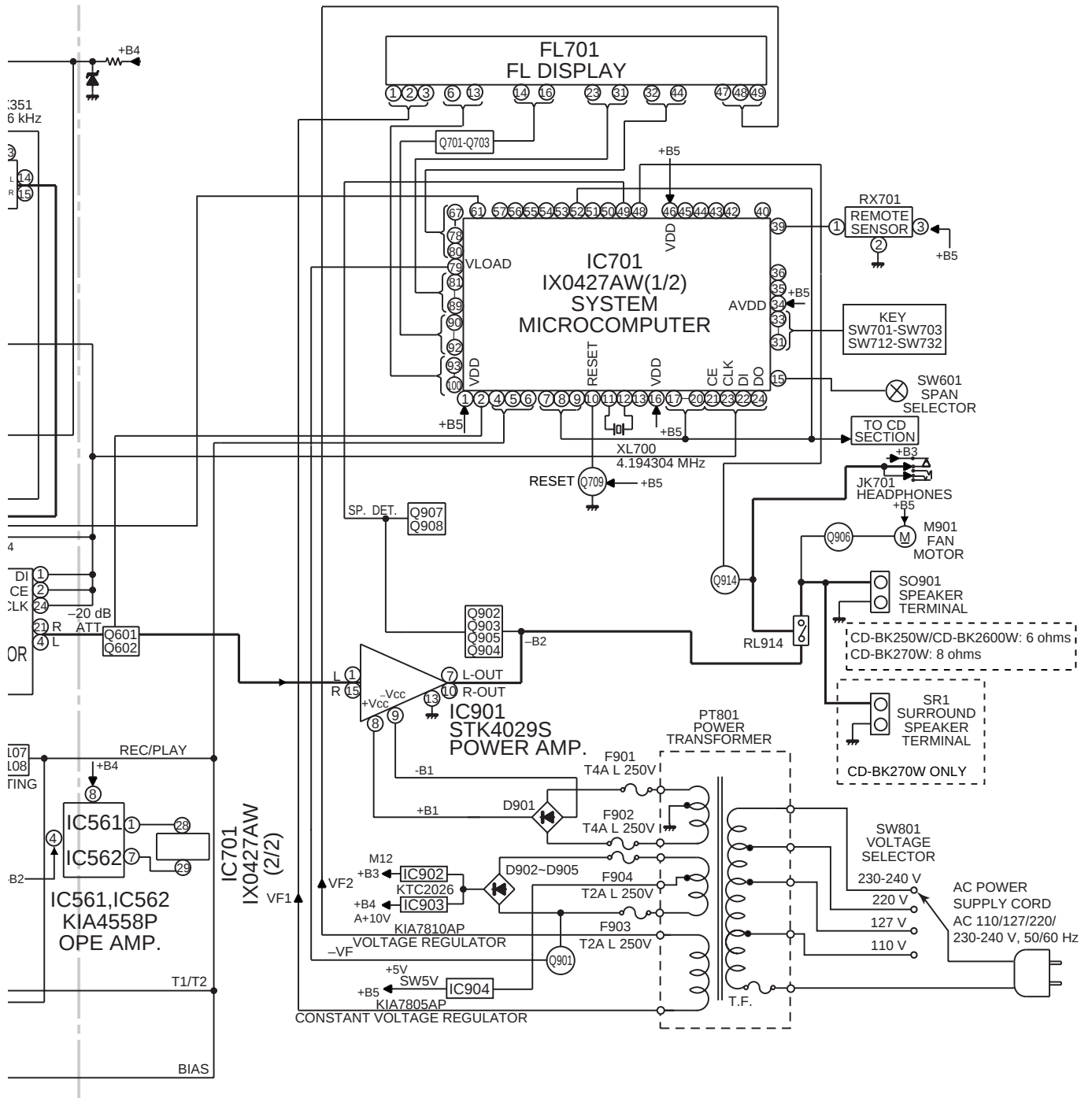


Figure 19 BLOCK DIAGRAM (3/3)



- 20 -

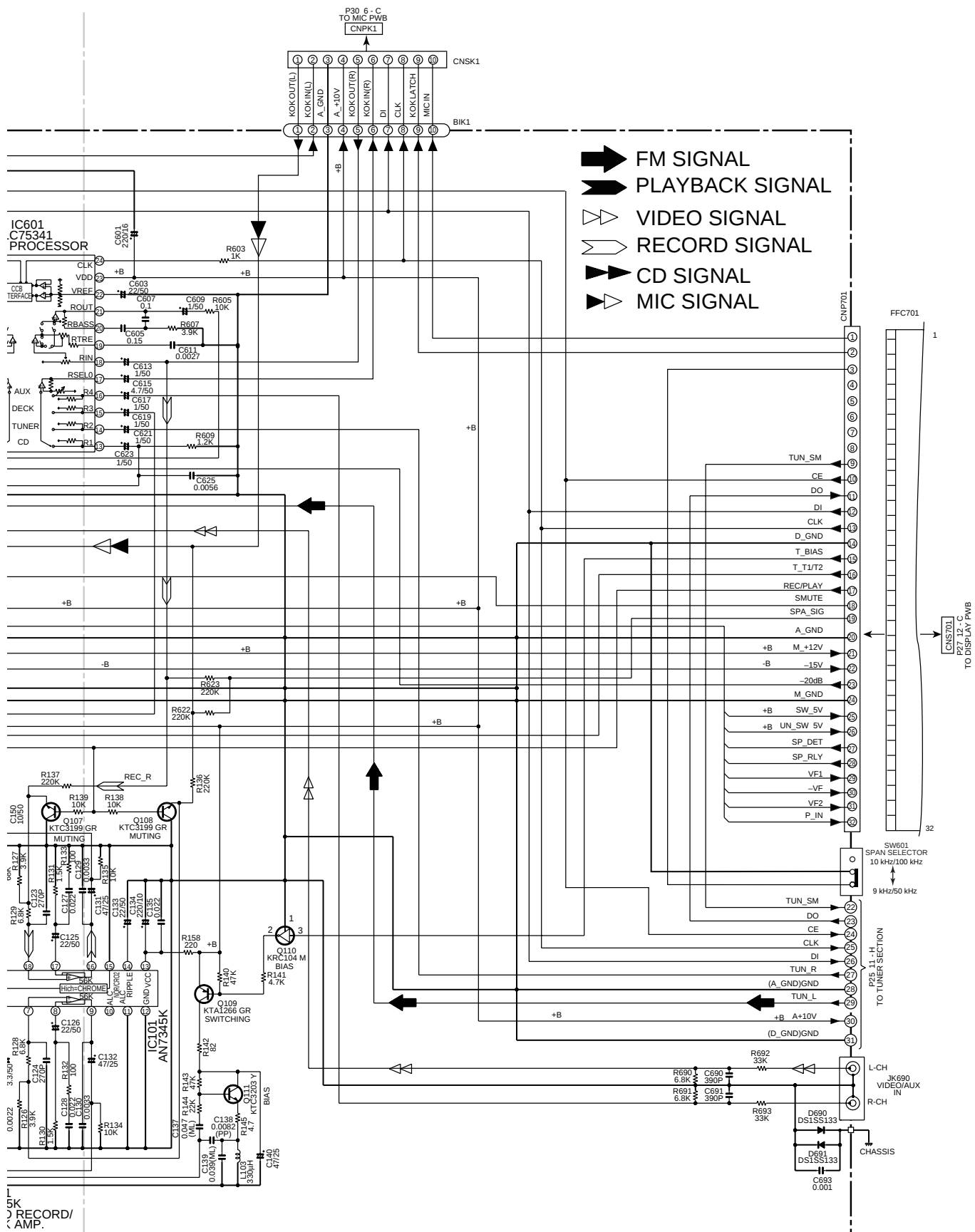
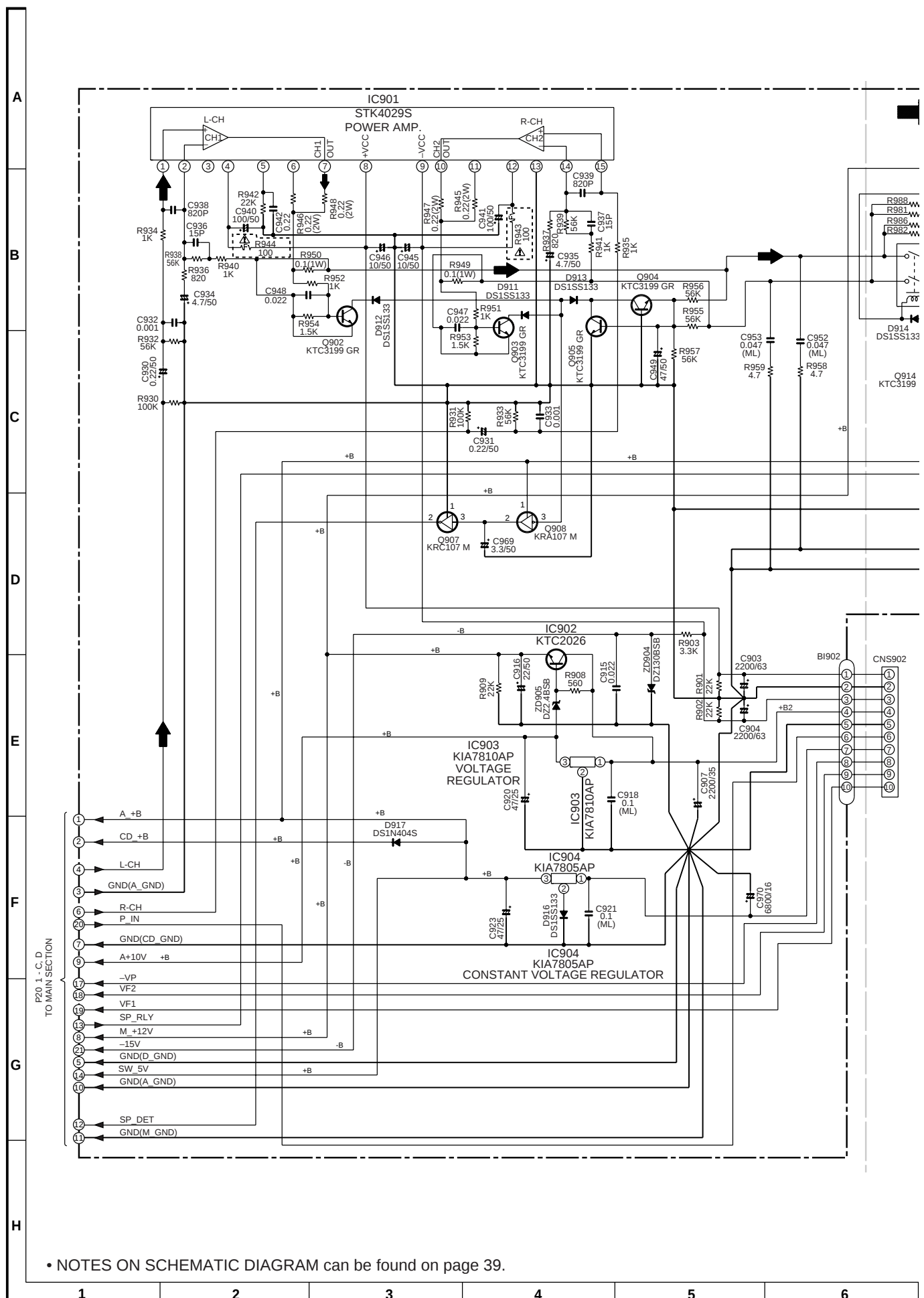
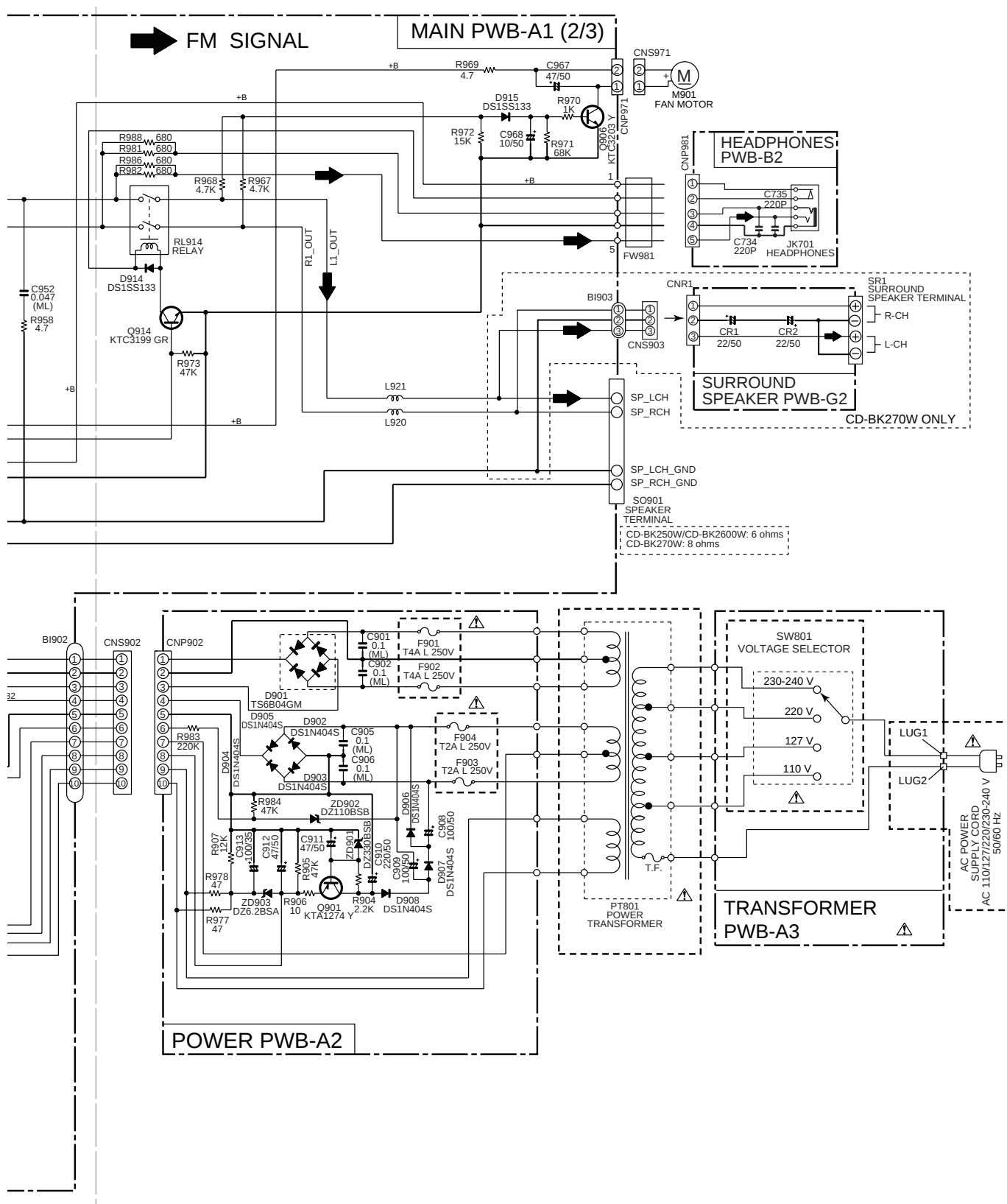


Figure 21 SCHEMATIC DIAGRAM (2/11)





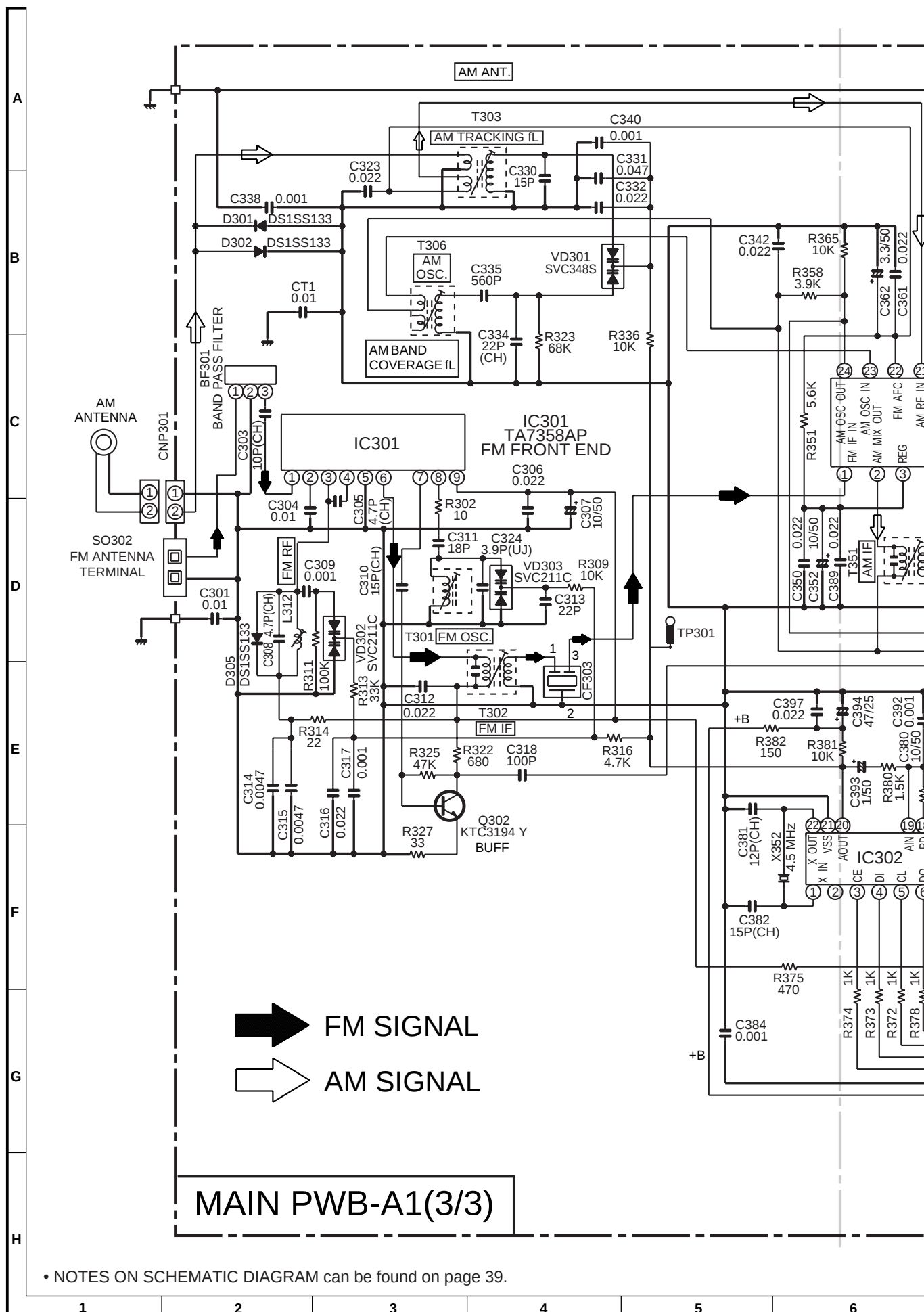


Figure 24 SCHEMATIC DIAGRAM (5/11)

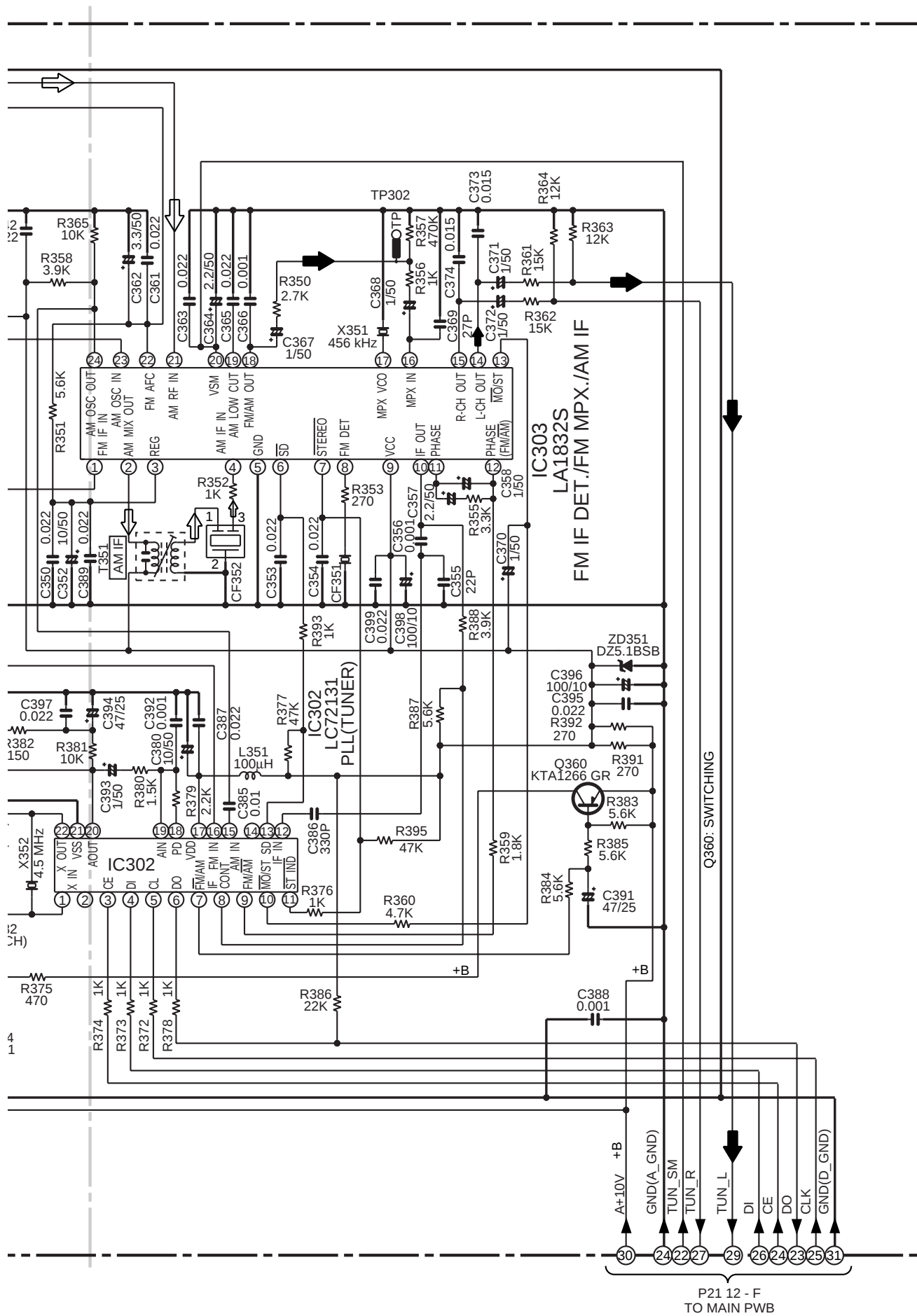


Figure 25 SCHEMATIC DIAGRAM (6/11)

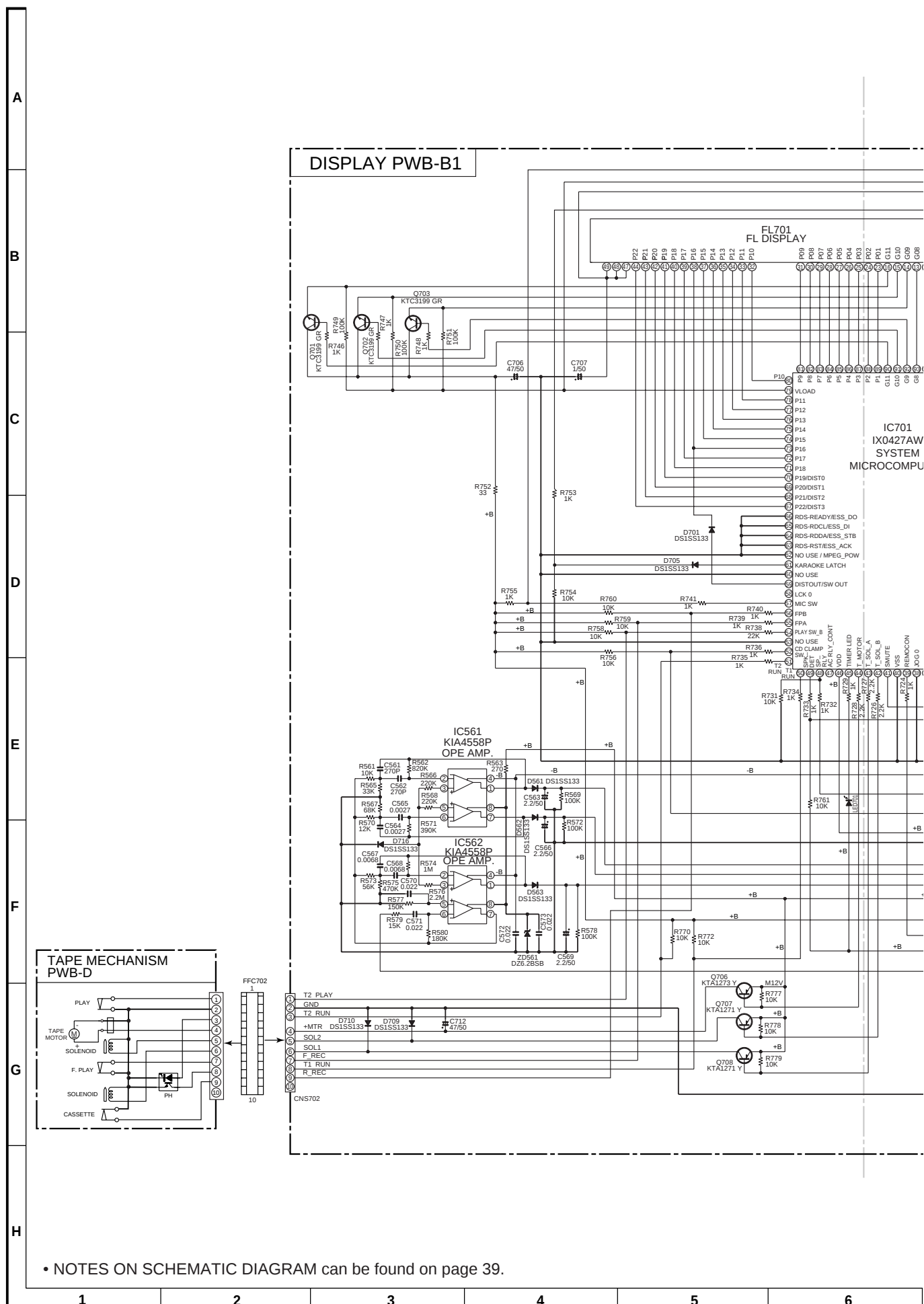
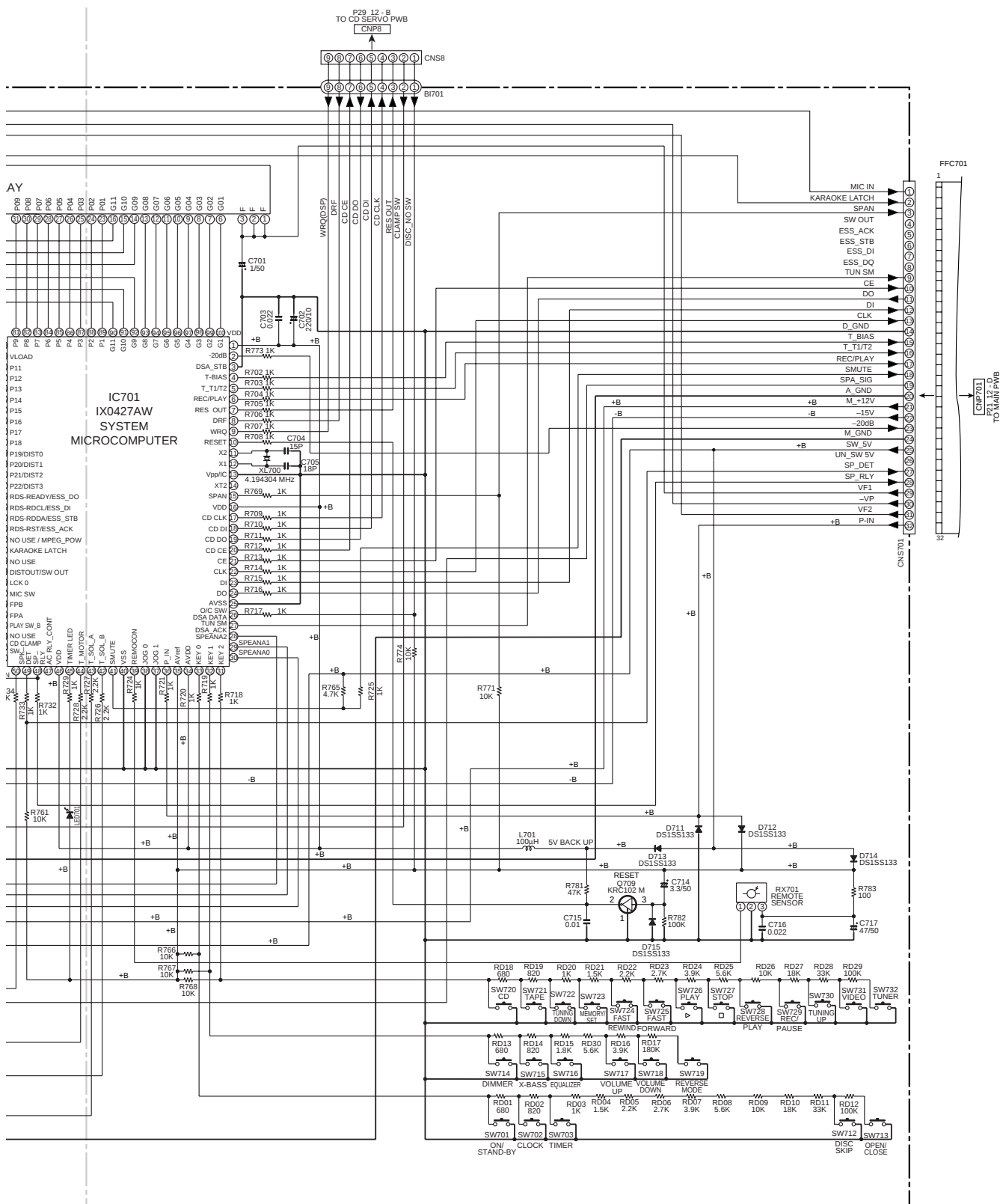


Figure 26 SCHEMATIC DIAGRAM (7/11)



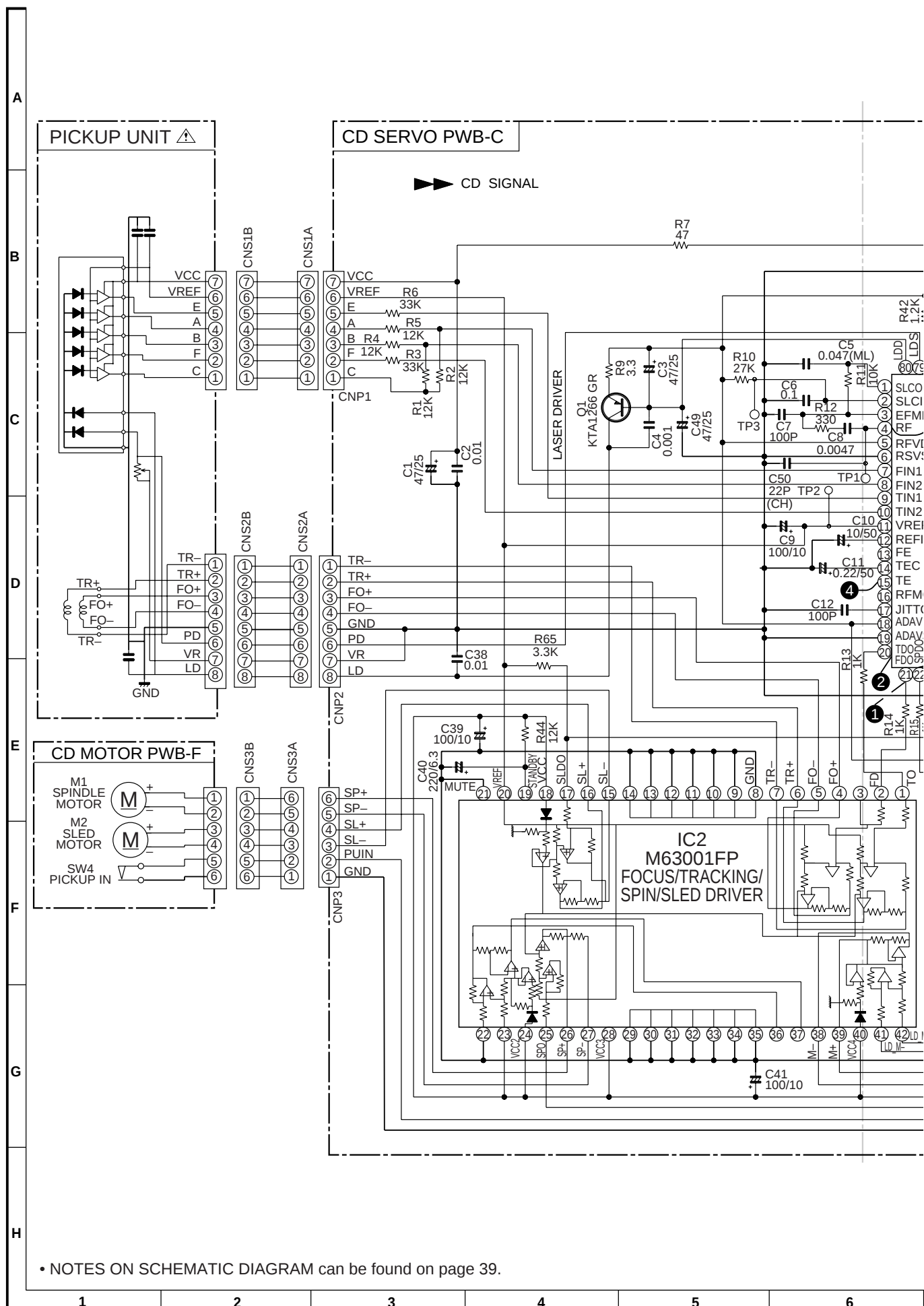
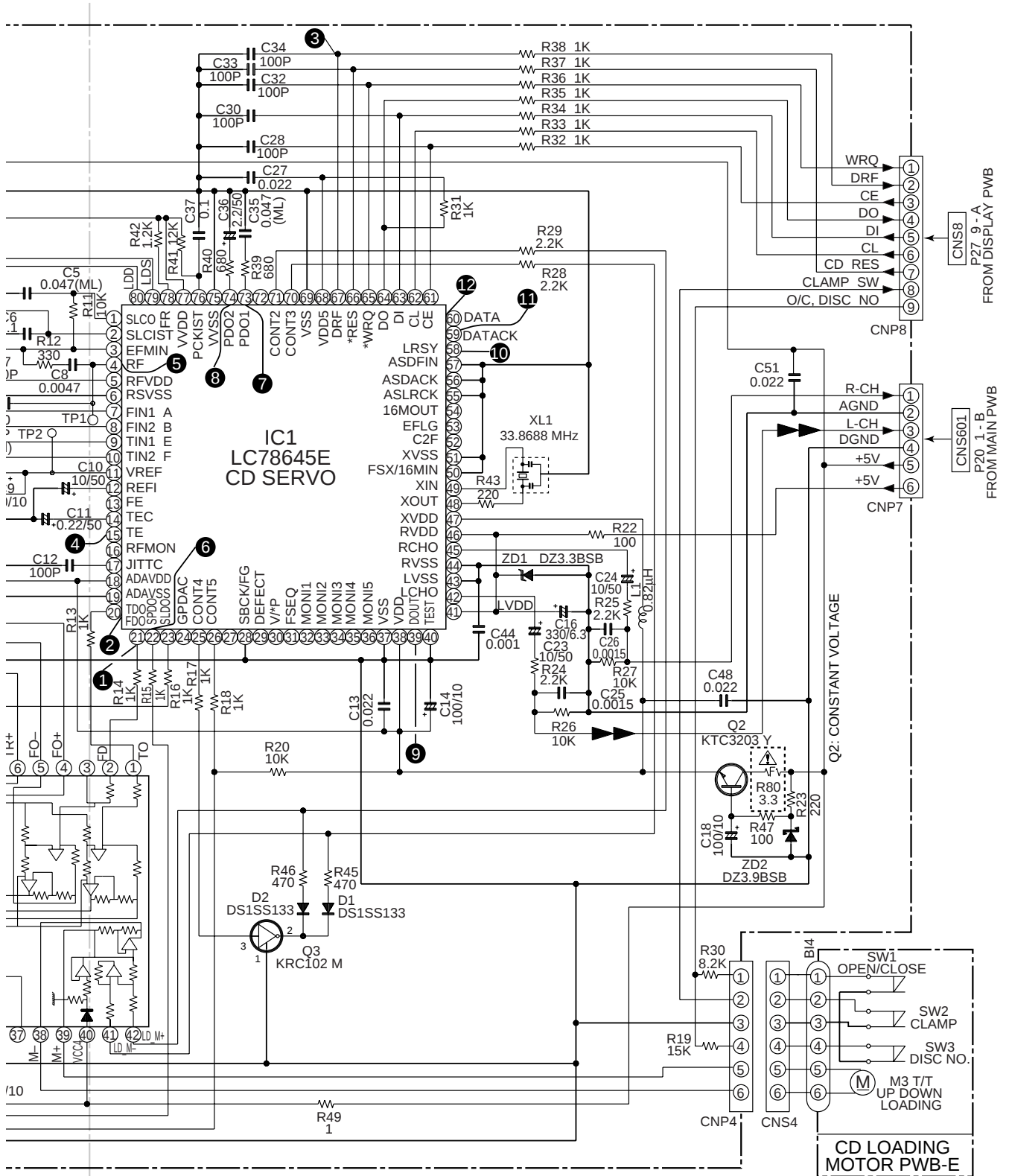


Figure 28 SCHEMATIC DIAGRAM (9/11)



• The numbers 1 to 12 are waveform numbers shown in page 40.

7	8	9	10	11	12
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Figure 29 SCHEMATIC DIAGRAM (10/11)

- 30 -

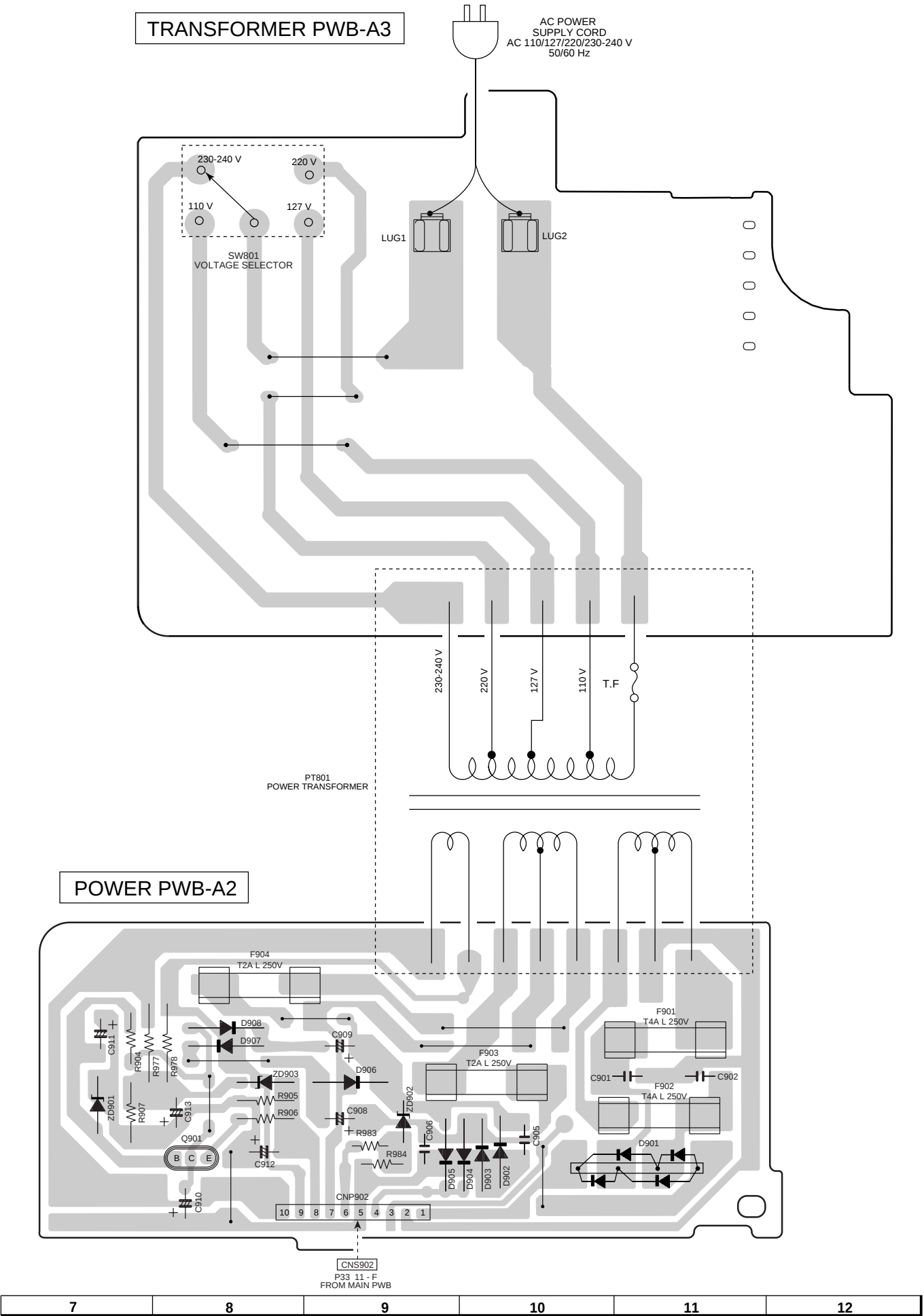


Figure 31 WIRING SIDE OF P.W.BOARD (2/8)

CD-BK250W/CD-BK2600W/CD-BK270W

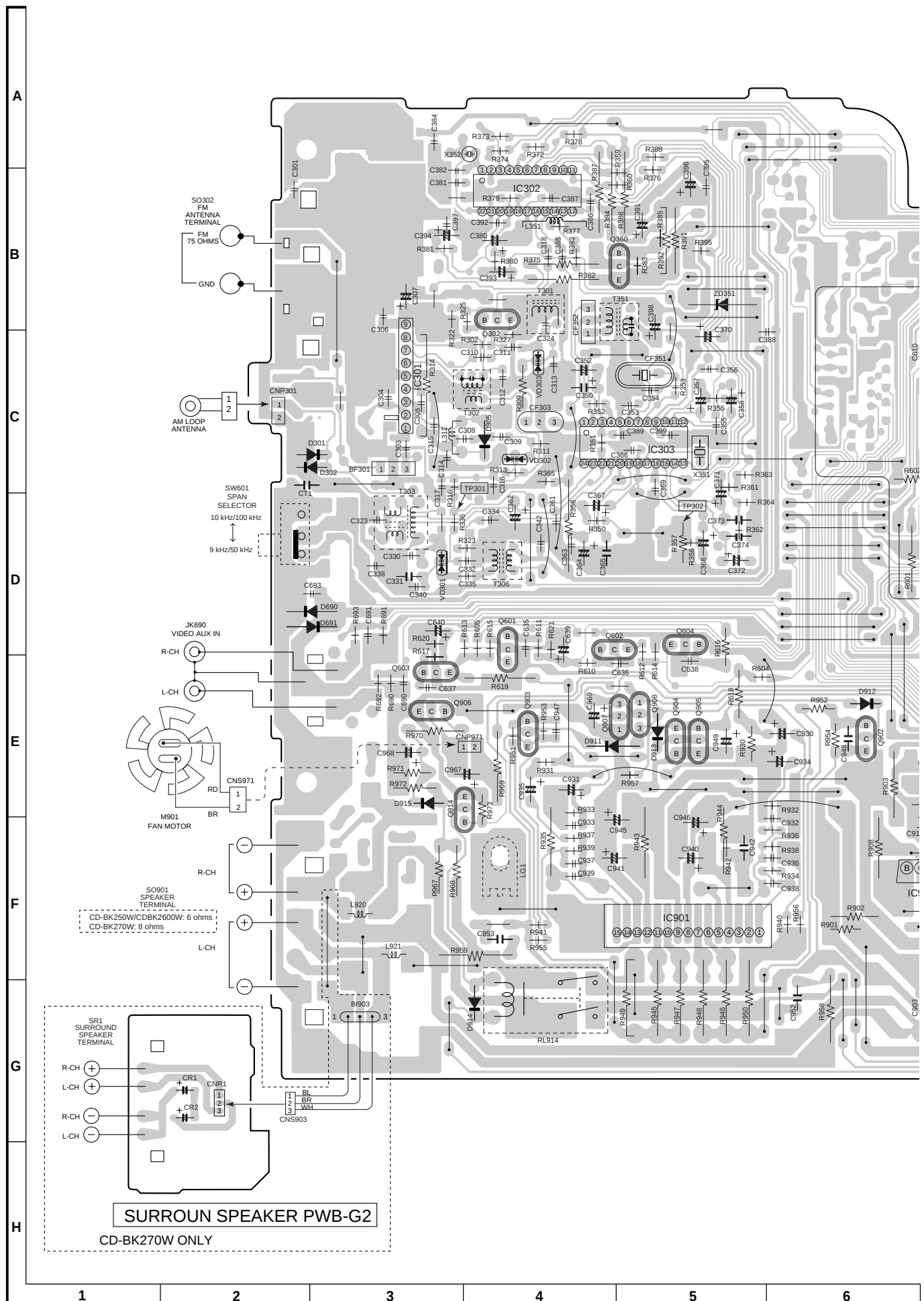
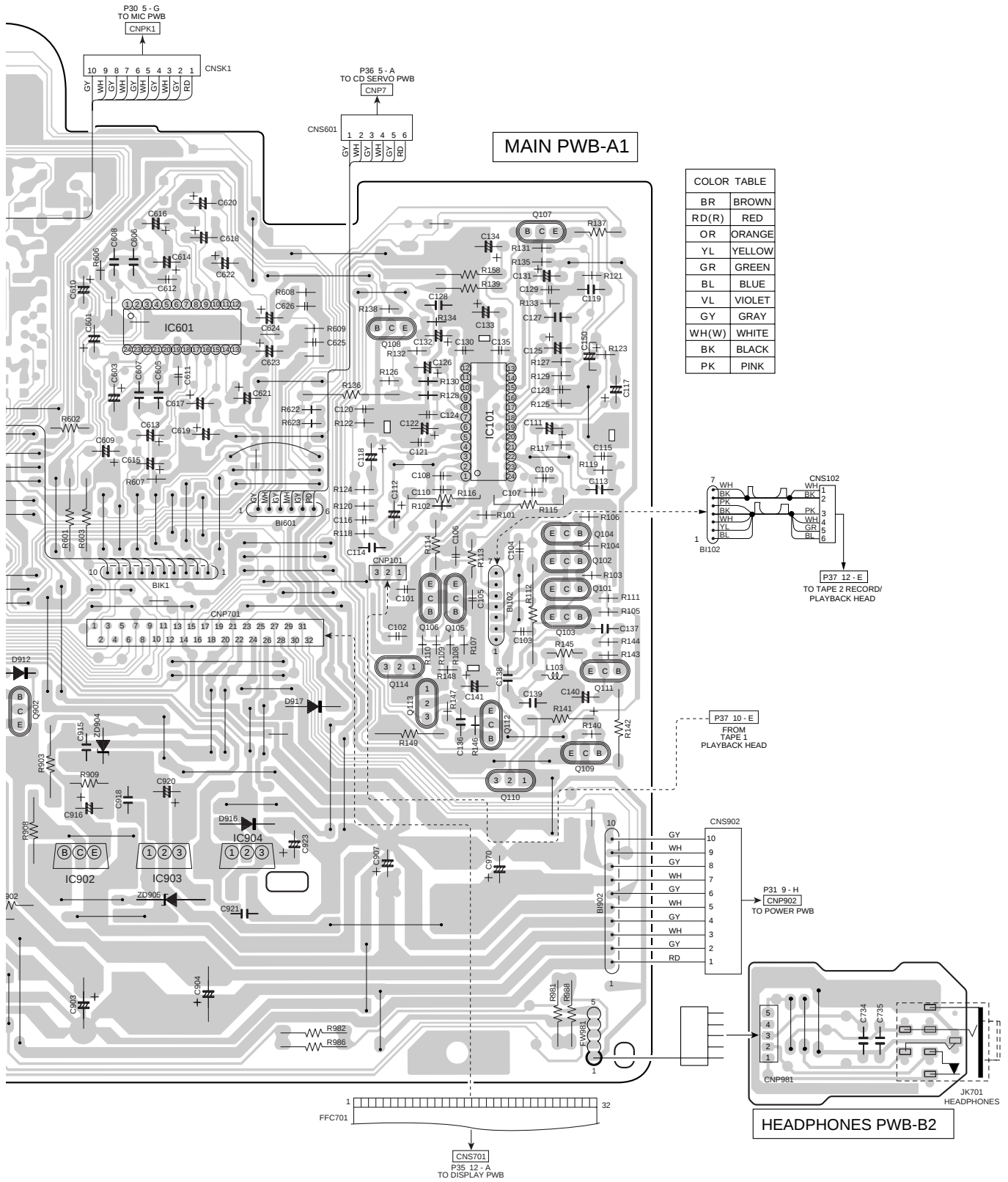


Figure 32 WIRING SIDE OF P.W.BOARD (3/8)



- 34 -

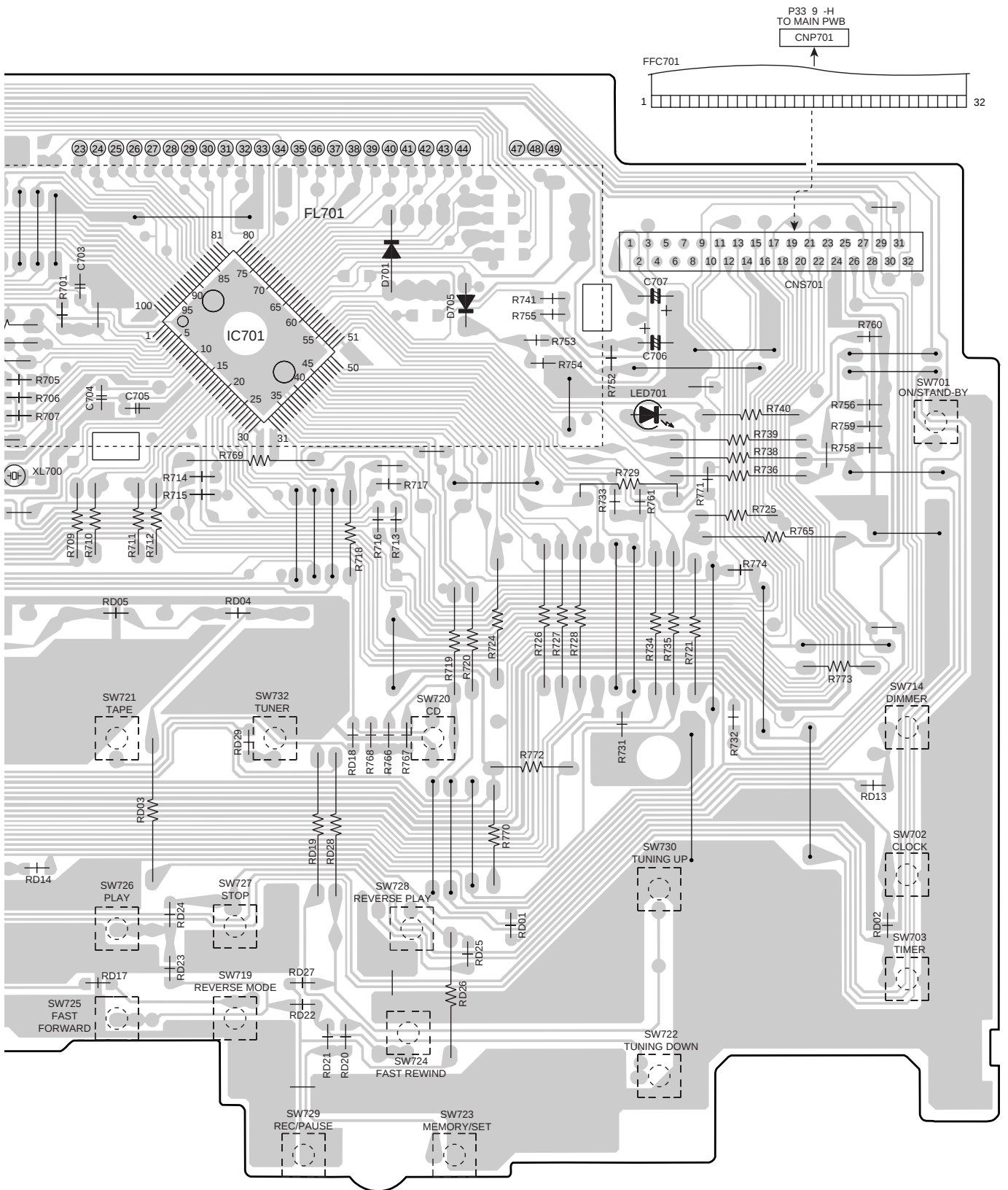


Figure 35 WIRING SIDE OF P.W.BOARD (6/8)

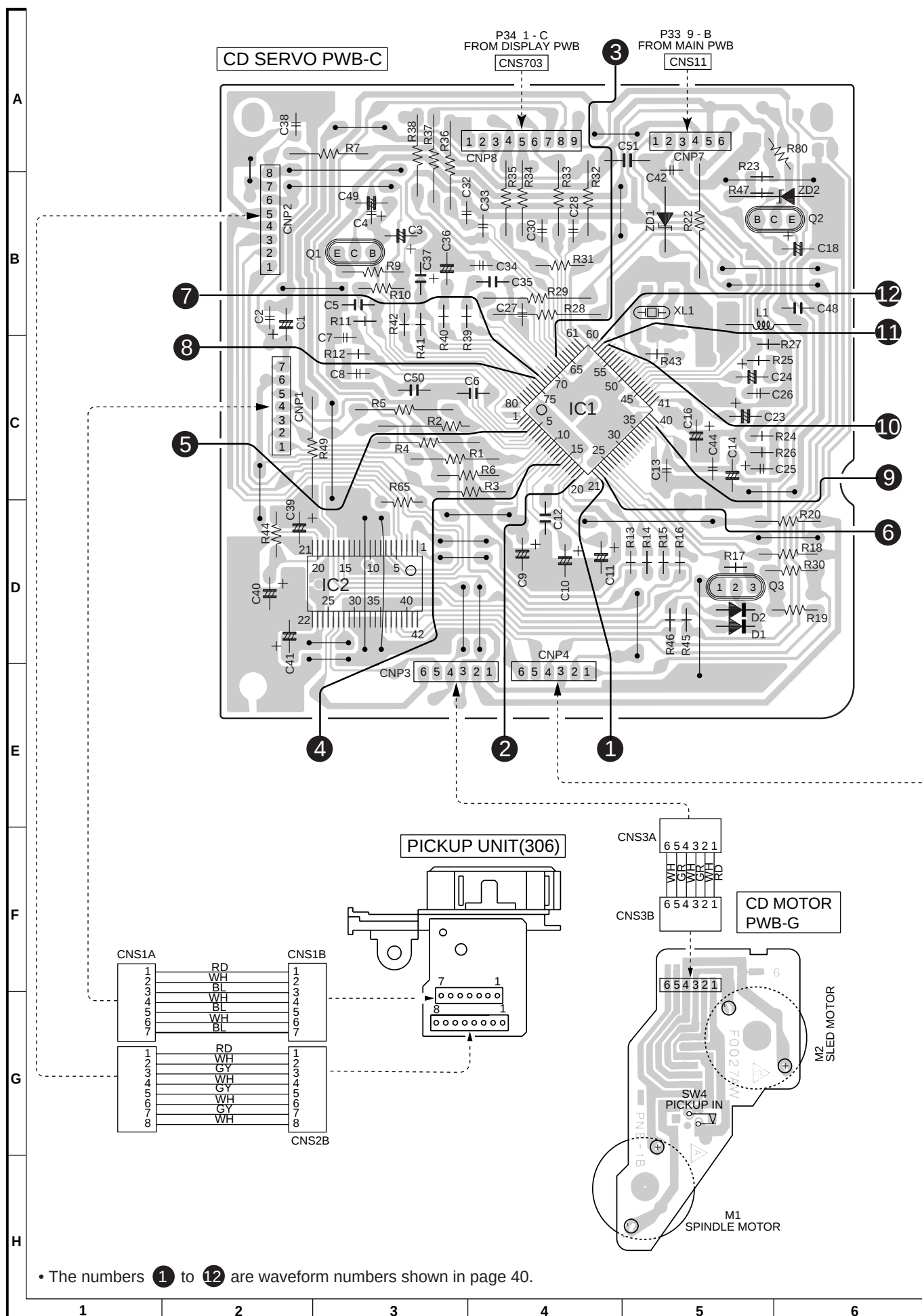
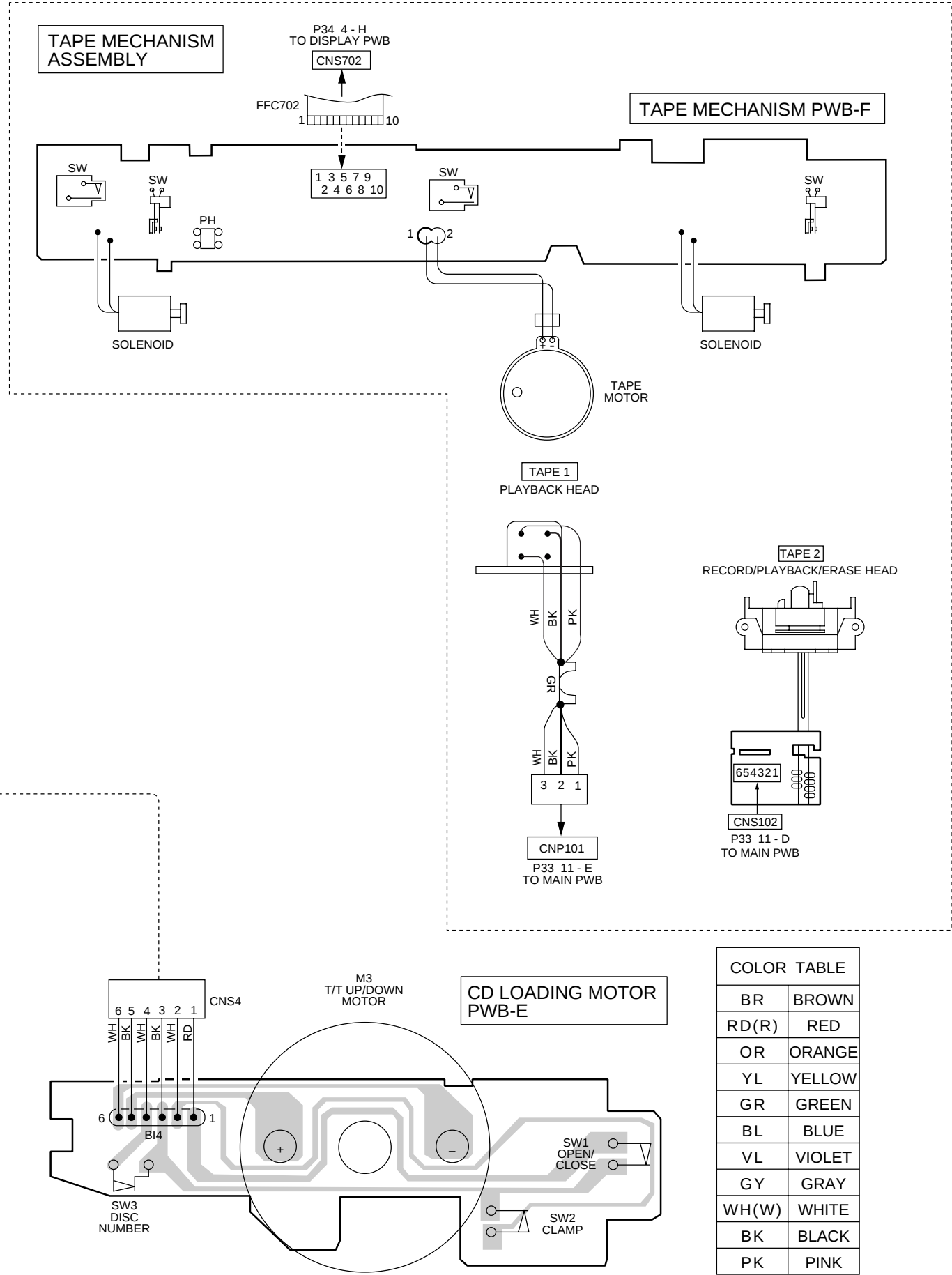


Figure 36 WIRING SIDE OF P.W.BOARD (7/8)



7	8	9	10	11	12
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Figure 37 WIRING SIDE OF P.W.BOARD (8/8)

VOLTAGE

IC1			
PIN NO.	VOLTAGE	PIN NO.	VOLTAGE
1	1.6 V	41	3.7 V
2	1.0 V	42	3.7 V
3	1.6 V	43	0 V
4	1.8 V	44	0 V
5	3.3 V	45	3.7 V
6	0 V	46	3.2 V
7	1.6 V	47	3.2 V
8	1.6 V	48	3.2 V
9	1.6 V	49	0 V
10	1.6 V	50	0 V
11	1.6 V	51	0 V
12	1.6 V	52	3.2 V
13	1.5 V	53	0 V
14	1.5 V	54	0 V
15	1.5 V	55	0 V
16	1.5 V	56	0 V
17	0.8 V	57	0 V
18	3.2 V	58	3.2 V
19	0 V	59	0 V
20	1.6 V	60	0 V
21	1.6 V	61	0 V
22	1.6 V	62	4.7 V
23	1.6 V	63	0 V
24	0 V	64	4.9 V
25	0 V	65	4.9 V
26	3.2 V	66	4.9 V
27	0 V	67	0 V
28	0 V	68	4.9 V
29	0 V	69	0 V
30	0 V	70	0 V
31	0 V	71	0 V
32	0 V	72	0 V
33	0 V	73	0 V
34	0 V	74	0 V
35	1.6 V	75	0 V
36	0 V	76	3.2 V
37	0 V	77	3.2 V
38	3.2 V	78	3.2 V
39	3.2 V	79	0 V
40	0 V	80	3.2 V

IC101		IC302	
PIN NO.	VOLTAGE	PIN NO.	VOLTAGE
1	0 V	1	2.55 V
2	0 V	2	0 V
3	0.57 V	3	0 V
4	2.0 V	4	0 V
5	0.59 V(AC)	5	0 V
6	1.32 V	6	5.16 V
7	0 V	7	0 V
8	0.59 V	8	4.69 V
9	3.45 V	9	4.02 V
10	3.42 V	10	4.10 V
11	0 V	11	5.15 V
12	0 V	12	0 V
13	6.92 V	13	5.15 V
14	4.13 V	14	0 V
15	0 V	15	0 V
16	3.43 V	16	2.53 V
17	0.59 V	17	5.16 V
18	0 V	18	0.90 V
19	2.63 V	19	0.90 V
20	0.56 V(AC)	20	1.31 V
21	2.00 V	21	0 V
22	0.57 V	22	2.55 V
23	0 V		
24	0 V		

IC2	
PIN NO.	VOLTAGE
1	1.7 V
2	1.7 V
3	1.8 V
4	2.1 V
5	2.1 V
6	2.1 V
7	2.0 V
8	0 V
9	0 V
10	0 V
11	0 V
12	0 V
13	0 V
14	0 V
15	2.1 V
16	2.1 V
17	1.6 V
18	4.9 V
19	3.0 V
20	1.6 V
21	0 V
22	0 V
23	4.9 V
24	4.9 V
25	1.6 V
26	2.1 V
27	2.1 V
28	0 V
29	0 V
30	0 V
31	0 V
32	0 V
33	0 V
34	0 V
35	0 V
36	4.2 V
37	0 V
38	2.1 V
39	2.1 V
40	4.9 V
41	3.7 V
42	3.7 V

IC301	
PIN NO.	VOLTAGE
1	0.91 V
2	1.64 V
3	5.40 V
4	1.62 V
5	0 V
6	5.41 V
7	4.65 V
8	5.37 V
9	5.41 V

IC561	
PIN NO.	VOLTAGE
1	0.17 V
2	0.2 V
3	0.19 V
4	-13.11 V
5	0.19 V
6	0.2 V
7	0.17 V
8	6.23 V

IC303	
PIN NO.	VOLTAGE
1	2.09 V
2	5.17 V
3	2.09 V
4	2.08 V
5	0 V
6	5.15 V
7	5.15 V
8	3.02 V
9	5.17 V
10	4.35 V
11	4.01 V
12	4.01 V
13	4.10 V
14	1.18 V
15	1.19 V
16	2.08 V
17	1.79 V
18	1.79 V
19	0 V
20	0.58 V
21	2.60 V
22	2.96 V
23	5.17 V
24	3.64 V

IC601	
PIN NO.	VOLTAGE
1	0 V
2	0 V
3	0 V
4	5.03 V
5	5.00 V
6	5.01 V
7	5.01 V
8	5.03 V
9	5.01 V
10	5.01 V
11	5.01 V
12	5.01 V
13	5.01 V
14	5.01 V
15	5.01 V
16	5.01 V
17	5.03 V
18	5.01 V
19	5.01 V
20	5.00 V
21	5.04 V
22	5.03 V
23	10.03 V
24	0 V

IC562	
PIN NO.	VOLTAGE
1	0.25 V
2	0.3 V
3	0.3 V
4	-13.11 V
5	0 V
6	0 V
7	0 V
8	6.23 V

IC701			
PIN NO.	VOLTAGE	PIN NO.	VOLTAGE
1	4.77 V	51	5.28 V
2	4.68 V	52	0 V
3	0 V	53	0 V
4	0 V	54	5.25 V
5	4.67 V	55	5.28 V
6	4.72 V	56	5.28 V
7	4.74 V	57	0 V
8	0 V	58	0.31 V
9	5.41 V	59	0 V
10	4.86 V	60	0 V
11	2.3 V	61	0 V
12	2 V	62	0 V
13	0 V	63	0 V
14	4.76 V	64	0 V
15	0 V	65	0 V
16	4.77 V	66	0 V
17	4.7 V	67	-28.82 V
18	0 V	68	-28.82 V
19	5.36 V	69	-28.8 V
20	0.16 V	70	-28.88 V
21	0 V	71	-28.79 V
22	0 V	72	-28.8 V
23	0 V	73	-16.2 V
24	0 V	74	-18.74 V
25	0 V	75	-26.3 V
26	2.3 V	76	-23.77 V
27	0.22 V	77	0 V
28	0 V	78	-21.2 V
29	0 V	79	-28.9 V
30	0 V	80	-26.2 V
31	5.03 V	81	-26.3 V
32	5.03 V	82	-26.3 V
33	5.03 V	83	-21.26 V
34	4.77 V	84	-28.83 V
35	5.04 V	85	0 V
36	2.48 V	86	0 V
37	0 V	87	-18.73 V
38	0 V	88	0 V
39	4.92 V	89	0 V
40	0 V	90	-26.26 V
41	5.67 V	91	-26.26 V
42	12.5 V	92	-26.24 V
43	12.52 V	93	-26.32 V
44	12.5 V	94	-26.3 V
45	3.8 V	95	-26.29 V
46	4.78 V	96	-26.3 V
47	4.76 V	97	-26.3 V
48	4.5 V	98	-26.3 V
49	5.04 V	99	-26.28 V
50	5.28 V	100	-26.3 V

IC901	
PIN NO.	VOLTAGE
1	0 V
2	0 V
3	0 V
4	50.1 V
5	-48.8 V
6	0 V
7	0 V
8	51.6 V
9	-51.5 V
10	0 V
11	0 V
12	-50.1 V
13	0 V
14	0 V
15	0 V

IC902	
PIN NO.	VOLTAGE
1	12.56 V
2	24.75 V
3	13.17 V

IC903	
PIN NO.	VOLTAGE
1	24.70 V
2	0 V
3	10.04 V

IC904	
PIN NO.	VOLTAGE
1	12.21 V
2	0.66 V
3	5.68 V

ICICK1	
PIN NO.	VOLTAGE
1	0.8 V
2	1.0 V
3	0.75 V
4	2.46 V
5	4.43 V
6	2.42 V
7	2.43 V
8	2.46 V
9	2.46 V
10	2.45 V
11	2.47 V
12	2.46 V
13	2.46 V
14	2.47 V
15	2.47 V
16	2.47 V
17	2.47 V
18	2.47 V
19	2.47 V
20	0.6 V
21	2.46 V
22	0 V
23	4.85 V
24	0.59 V
25	2.47 V
26	2.47 V
27	2.47 V
28	2.47 V
29	2.47 V
30	2.43 V
31	2.47 V
32	2.47 V
33	2.43 V
34	2.47 V
35	2.45 V
36	2.47 V
37	2.46 V
38	0 V
39	0 V
40	0 V
41	0 V
42	0 V

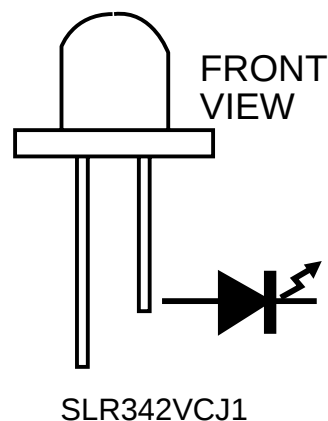
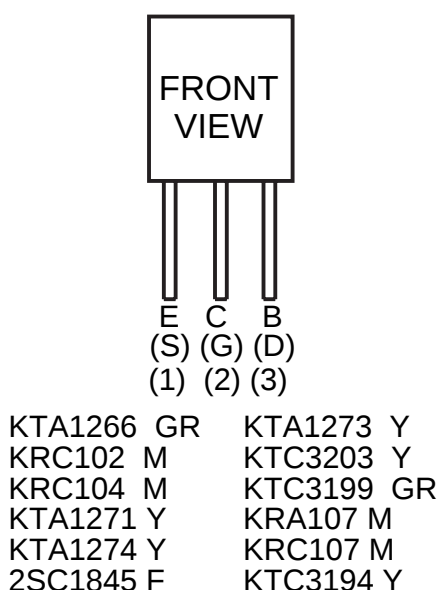
NOTES ON SCHEMATIC DIAGRAM

- **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 pico-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 " $\triangle$ " ($\square = \square = \square = \square$) 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.

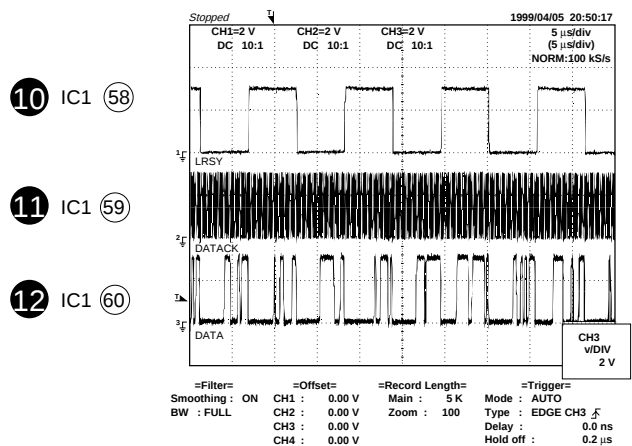
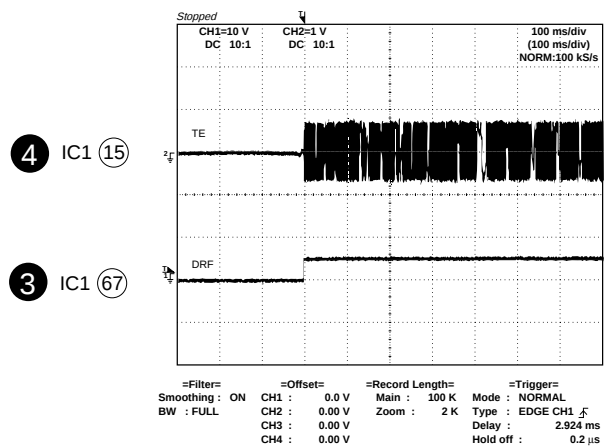
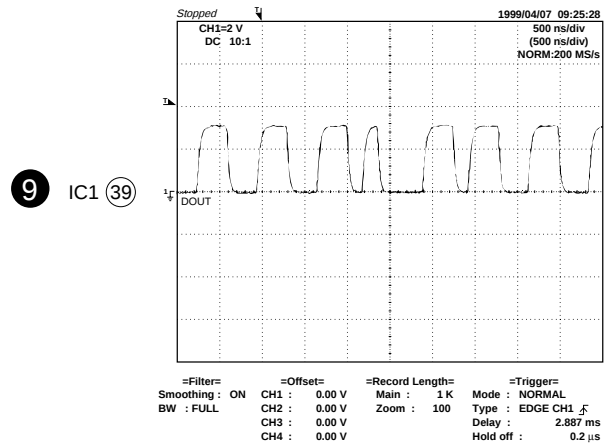
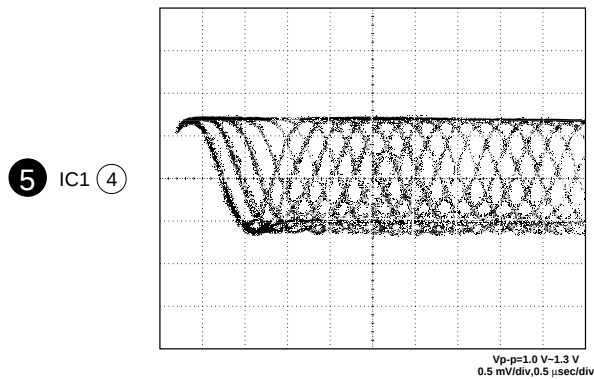
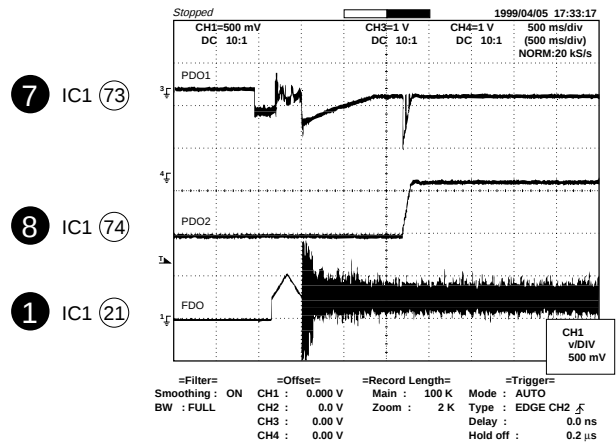
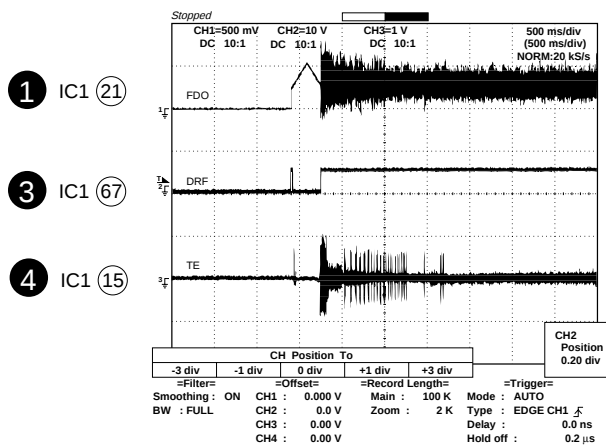
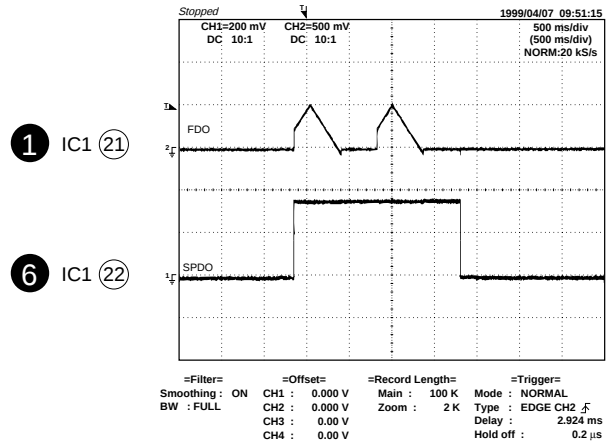
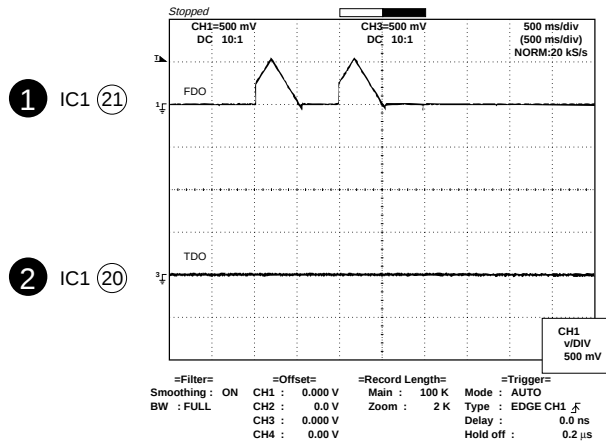
REF. NO	DESCRIPTION	POSITION
SW1	OPEN/CLOSE	ON—OFF
SW2	CLAMP	ON—OFF
SW3	DISC NUMBER	ON—OFF
SW4	PICKUP IN	ON—OFF
SW601	SPAN SELECTOR	9/50 Hz—10/100 Hz
SW701	ON/STAND-BY	ON—OFF
SW702	CLOCK	ON—OFF
SW703	TIMER/SLEEP	ON—OFF
SW712	DISC SKIP	ON—OFF
SW713	OPEN/CLOSE	ON—OFF
SW714	DIMMER	ON—OFF
SW715	X-BASS/DEMO	ON—OFF
SW716	EQUALIZER	ON—OFF
SW717	VOLUME UP	ON—OFF
SW718	VOLUME DOWN	ON—OFF

REF. NO	DESCRIPTION	POSITION
SW719	REVERSE MODE	ON—OFF
SW720	CD	ON—OFF
SW721	TAPE	ON—OFF
SW722	TUNING DOWN	ON—OFF
SW723	MEMORY/SET	ON—OFF
SW724	REWIND	ON—OFF
SW725	FAST FORWARD	ON—OFF
SW726	PLAY	ON—OFF
SW727	STOP	ON—OFF
SW728	REVERSE PLAY	ON—OFF
SW729	REC/PAUSE	ON—OFF
SW730	TUNING UP	ON—OFF
SW731	VIDEO/AUX	ON—OFF
SW732	TUNER (BAND)	ON—OFF
SW801	VOLTAGE SELECTOR	110 V—127 V— 220 V—230-240 V

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 off the power, and wipe the lens softly using a cleaning paper moistened with commercially available cleaning solution so as not to damage it. Be careful not to touch the lens with bare hands.

Dust gradually accumulates on the objective lens during use, and it may degrade performance. To avoid this problem, use a cleaning disc designed for CD optical pickup lenses.

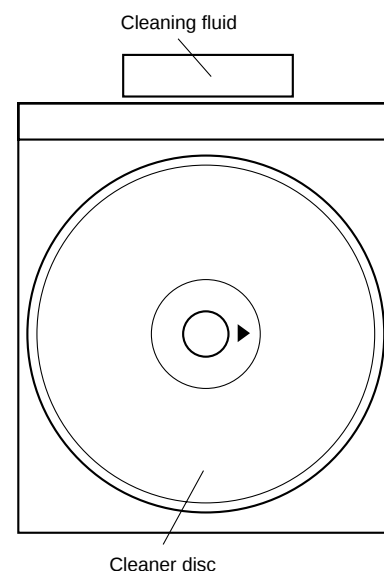
		Parts code
1.	CD optical pickup Lens cleaner disc	UDSKA0004AFZZ

HOW TO USE

1. 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.
2. Place the CD cleaner disc onto the CD disc tray with the brush side down, then press the play button.
3. 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 disc 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.

- (1) Check the power to IC1 (LC78645E), the presence of the clock signal (33.8688 MHz) and the status of the RESET terminal (pin 66 on IC1).
- (2) 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.

- (1) Focus-HF system check
- (2) Tracking system check
- (3) Spin system check
- (4) PLL system check
- (5) Others

CD-BK250W/CD-BK2600W/CD-BK270W

(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.

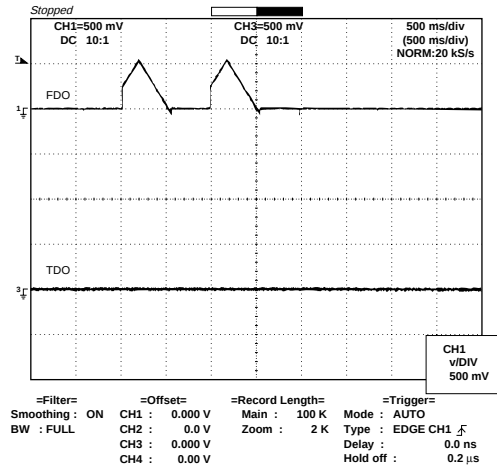
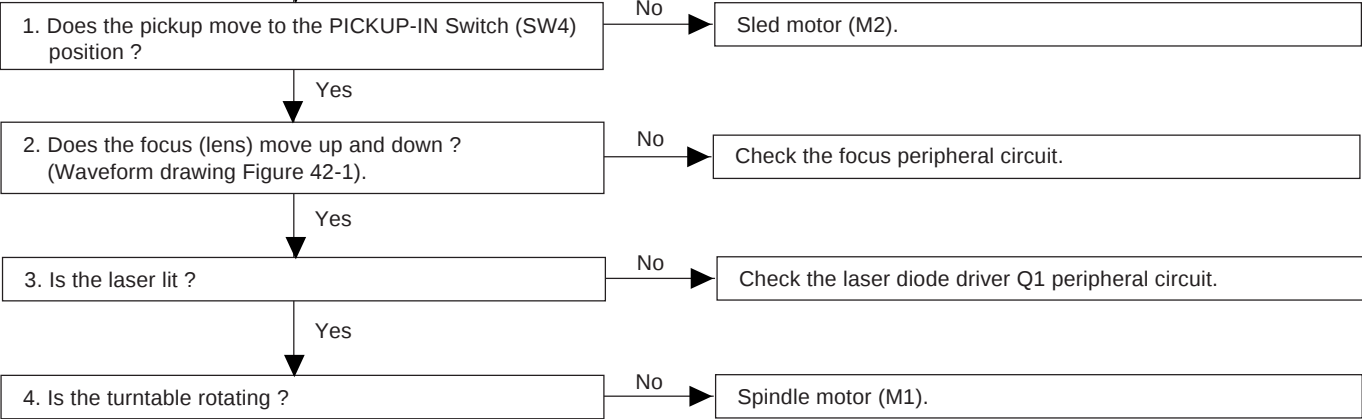


Figure 42-1



When a disc is loaded, start playback operation.

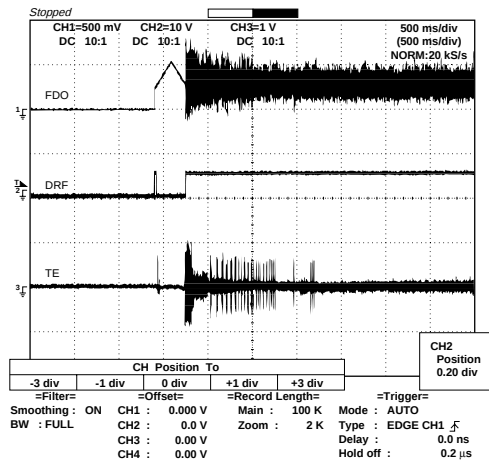
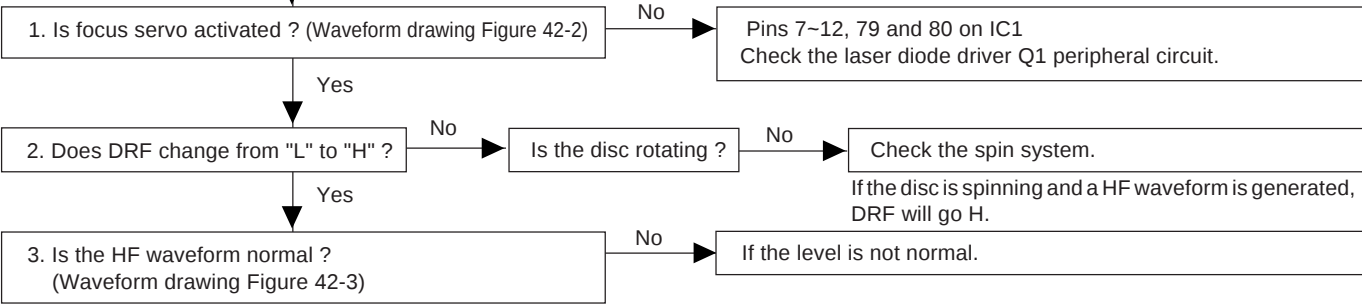


Figure 42-2

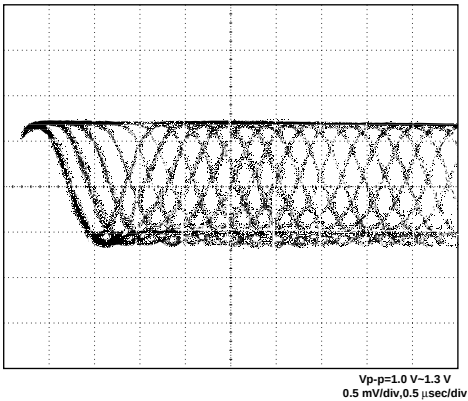


Figure 42-3

(2) Tracking system check.

Check the TE waveform at pin 15 on IC1.

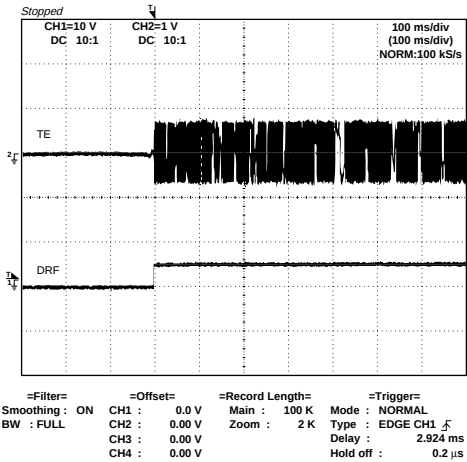
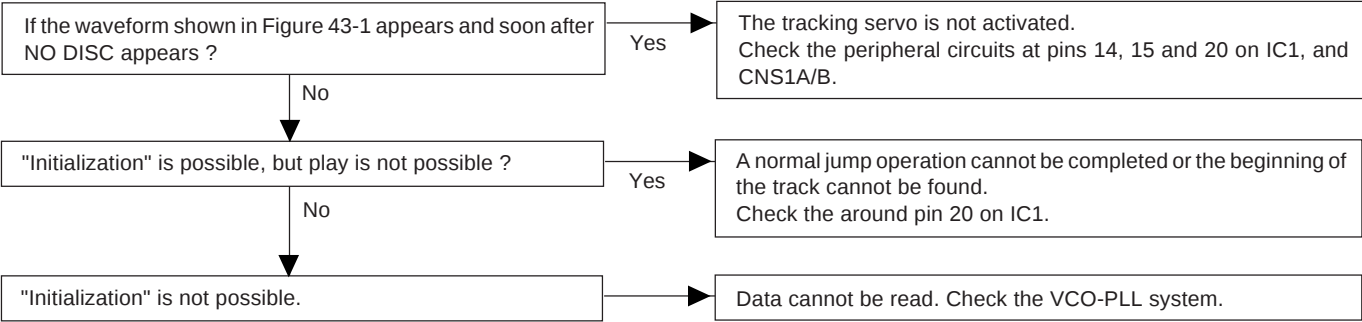


Figure 43-1

(3) Spin system check.

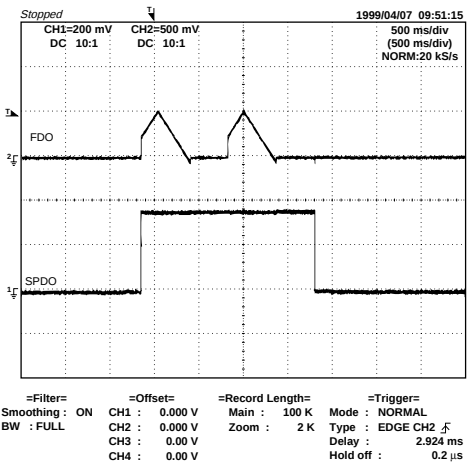
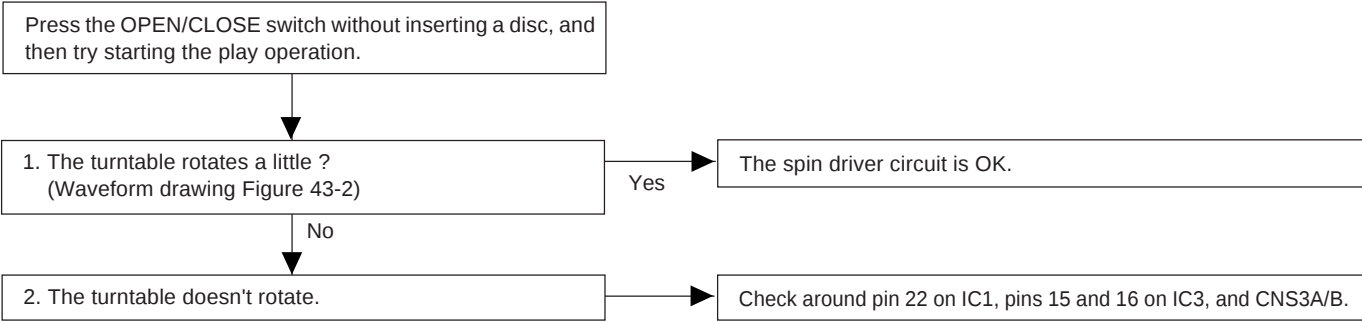


Figure 43-2

CD-BK250W/CD-BK2600W/CD-BK270W

(4) PLL system check.

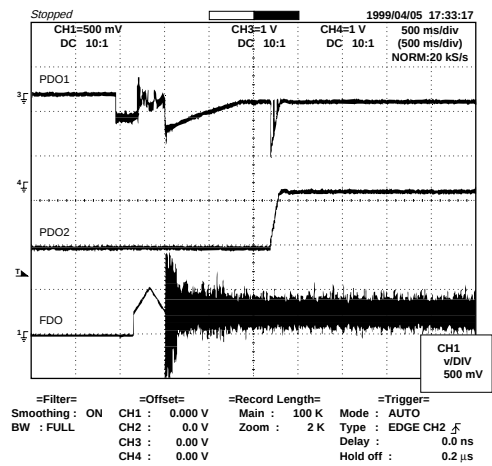
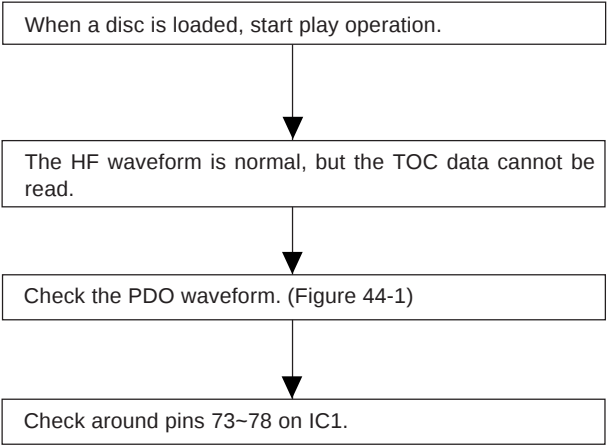


Figure 44-1

(5) Others.

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

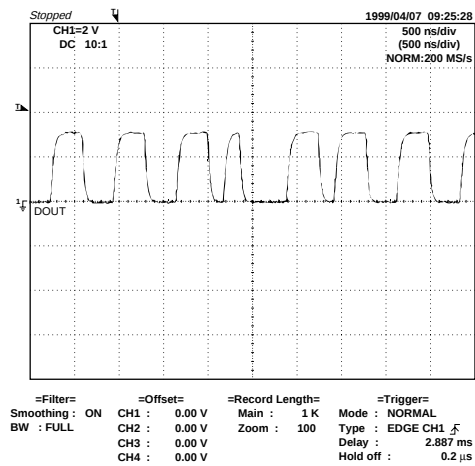
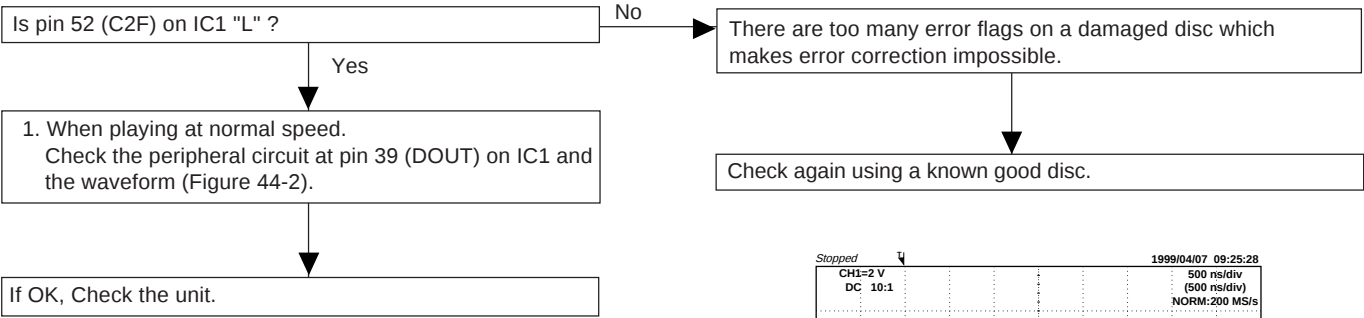


Figure 44-2

FUNCTION TABLE OF IC

IC1 VHiLC78645E-1: CD Servo (LC78645E) (1/2)

Pin No.	Terminal Name	Input/Output	Setting in Reset	Function	
1	SLCO	Output	—	For slice level control.	Control output.
2	SLCIST	Input	—		Resistor connection terminal for SLCO output current setting.
3	EFMIN	Input	—		RF signal input terminal.
4	RF	Output	—	RF signal monitor terminal.	
5	RFVDD	Input	—	RF power terminal.	
6	RFVSS	—	—	RF earth terminal. To be connected to 0 V.	
7	FIN1 A	Input	—	A+C signal input terminal.	
8	FIN2 B	Input	—	B+D signal input terminal.	
9	TIN1 E	Input	—	E signal input terminal.	
10	TIN2 F	Input	—	F signal input terminal.	
11	VREF	Output	RFVDD/2	VREF voltage output terminal.	
12	REFI	Input	—	Reference supply setting terminal.	
13*	FE	Output	ZHI	FE signal monitor terminal.	
14	TEC	Output	—	LPF capacitor connection terminal for TE signal.	
15*	TE	Output	ZHI	TE signal monitor terminal.	
16*	RFMON	Output	ZHI	RF internal signal monitor terminal.	
17	JITTC	—	—	Capacitor connection terminal for jitter detection.	
18	ADAVDD	Input	—	Power terminal for servo A/D, D/A.	
19	ADAVSS	—	—	Earth terminal for servo A/D, D/A. To be connected to 0 V.	
20	TDO	Output	ADAVDD/2	Output terminal for tracking control. D/A output.	
21	FDO	Output	ADAVDD/2	Output terminal for focus control. D/A output.	
22	SPDO	Output	ADAVDD/2	Output terminal for spindle control. D/A output.	
23	SLDO	Output	ADAVDD/2	Output terminal for sled control. D/A output.	
24*	GPDAC	Output	ADAVDD/2	Servo D/A general-purpose output terminal.	
25	CONT4	Input/Output	Input Mode	General-purpose I/O terminal 4.	Controlled by commands from the microcomputer. When not used, set them as input terminals and connect to 0 V, or set them as output terminals and leave open.
26	CONT5	Input/Output	Input Mode	General-purpose I/O terminal 5.	
27*	SBCK/CONT6	Input/Output	Input Mode	General-purpose I/O terminal 6 or Subcode reading clock input terminal.	
28	SBCK/FG	Input	—	Subcode reading clock input terminal/FG signal input terminal/external emphasis setting terminal. Terminal functions are set by commands. When not used, connect to 0 V.	
29*	DEFECT	Output	L	Defect terminal.	
30*	V/*P	Output	H	Auto switching monitor output terminal for rough servo phase control. “H”: rough servo, “L”: phase servo.	
31*	FSEQ	Output	L	Sync signal detection output terminal. The status changes to “H” when the sync signal detected in EFM and the sync signal of internal generation are identified.	
32*	MONI1	Output	L	Internal signal monitor terminal 1.	
33*	MONI2	Output	L	Internal signal monitor terminal 2.	
34*	MONI3	Output	L	Internal signal monitor terminal 3.	
35*	MONI4	Output	L	Internal signal monitor terminal 4.	
36*	MONI5	Output	L	Internal signal monitor terminal 5.	
37	VSS	—	—	Digital system earth terminal. To be connected to 0 V.	
38	VDD	Input	—	Digital system power terminal.	
39*	DOUT	Output	L	Digital OUT output terminal. (EIAJ format)	
40	TEST	Input	L	Input terminal for test. To be connected to 0 V.	
41	LVDD	Input	—	Left channel D/A converter	Power supply for Left channel.
42	LCHO	Output	LVDD/2		Left channel output.
43	LVSS	—	—		GND for Left channel. Must be connected to 0 V.

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

CD-BK250W/CD-BK2600W/CD-BK270W

IC1 VHiLC78645E-1: CD Servo (LC78645E) (2/2)

Pin No.	Terminal Name	Input/Output	Setting in Reset	Function	
44	RVSS	—	—	Right channel D/A converter	GND for Right channel. Must be connected to 0 V.
45	RCHO	Output	LVDD /2		Right channel output.
46	RVDD	Input	—		Power supply for Right channel.
47	XVDD	Input	—	Crystal Oscillator	Power supply for crystal oscillator.
48	XOUT	Output	—		Connected for the 33.8688 MHz crystal oscillator ciement.
49	XIN	Input	—		
50	FSX/16MIN	Input/Output	Input	7.35 kHz Synchronization signal monitor port. or Clock input port for Digital filter & D/A	
51	XVSS	—	—	Crystal Oscillator	GND for crystal oscillator. Must be connected to 0 V.
52*	C2F	Output	H	C2 FLAG monitor port.	
53*	EFLG	Output	L	C1, C2 error corrected monitor port.	
54*	16MOUT	Output	Clock	16.9344 MHz output port.	
55	ASLRCK	Input	—	Anti-shock	Word clock input port. (If this port does not use, must be connect to 0 V.)
56	ASDACK	Input	—		Bit clock input port. (If this port does not use, must be connect to 0 V.)
57	ASDFIN	Input	—		Left/Right channel data input port. (If this port does not use, must be connect to 0 V.)
58*	LRSY	Output	L	Digital data	Word clock output port.
59*	DATAACK	Output	L		Bit clock output port.
60*	DATA	Output	L		Left/Right channel data output port.
61	CE	Input	—	Microcomputer Interface	Chip enable signal input port.
62	CL	Input	—		Data transfer clock input port.
63	DI	Input	—		Data input port.
64	DO	Output	(H)		Data output port. (N-ch. open drain output.)
65	*WRQ	Output	H		Interruption signal output.
66	*RES	Input	—	Chip reset signal input port. This port must be set LOW after first applied power on.	
67	DRF	Output	L	Focus detection output port.	
68	VDD5	Input	—	Power supply for Microprocessor.	
69	VSS	—	—	GND for digital circuit. Must be connected to 0 V.	
70	CONT3	Input/Output	Input	General purpose port 1.	Controlled with serial data command from micro-computer. When not used, General purpose input/output terminal 7. set it as the input terminal and open it by connecting to 0 V, or set it as the output terminal and open it.
71	CONT2	Input/Output	Input	General purpose port 2.	
72*	CONT1	Input/Output	Input	General purpose port 3.	
73	PDO1	Output	—	PLL	Internal VCO control phase comparator output port 1.
74	PDO2	Output	Input		Internal VCO control phase comparator output port 2.
75	VVSS	—	—		GND for internal VCO. Must be connected to 0 V.
76	PCKIST	Input	—		PDO output current adjustment resistor connection port.
77	VVDD	Input	—		Power supply for internal VCO.
78	FR	Input	—		VCO frequency range adjustment port.
79	LDS	Input	—	LASER power detected signal input port.	
80	LDD	Output	—	LASER power control signal output port.	

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 (VDD5 V) for a microcomputer interface :

CE (61 pin), CL (62 pin), DI (63 pin), DO (64 pin), WRQ (65 pin), RES (66 pin), DRF (67 pin)

IC1 VHiLC78645E-1: CD Servo (LC78645E)

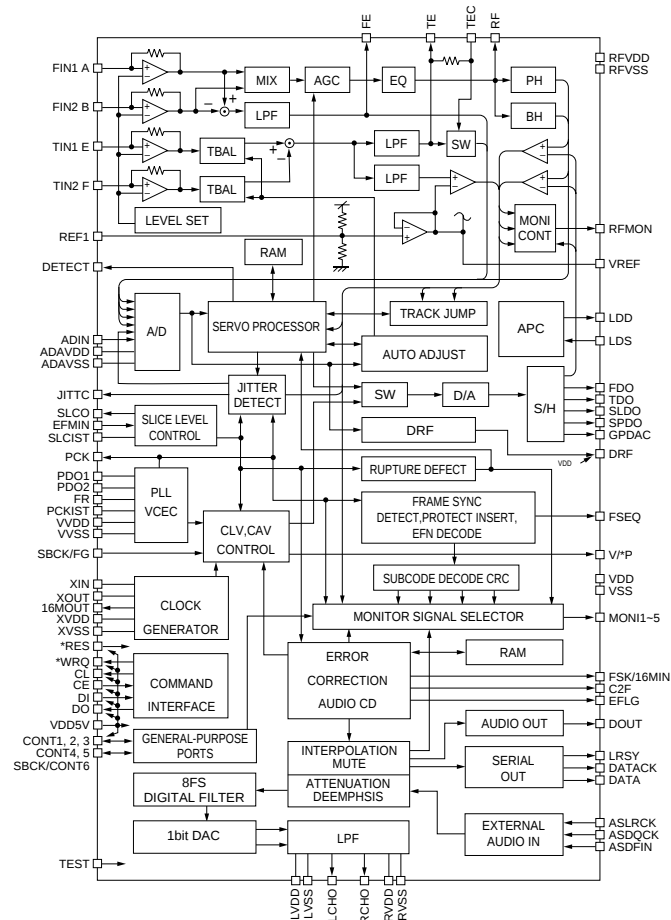
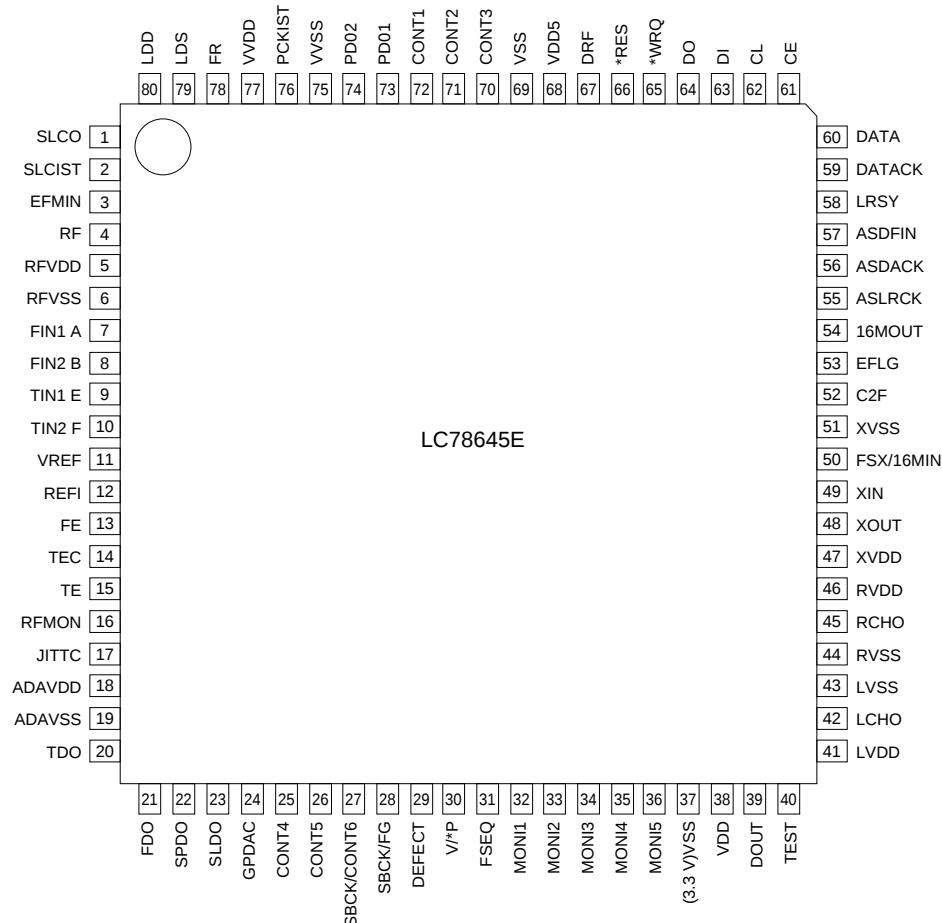


Figure 47 BLOCK DIAGRAM OF IC

CD-BK250W/CD-BK2600W/CD-BK270W

IC701 RH-iX0427AWZZ: System Microcomputer (IX0427AW) (1/2)

Pin No.	Port Name	Terminal Name	Input/Output	Function
1	VDD	VDD	Input	(+) POWER SUPPLY.
2	P37	-20 dB ATT	Output	-20 dB ATTENUATOR.
3	P36	NO USE	Output	GND
		DSA_STB	Input/Output	DSA STRUBE
4	P35	T_BIAS	Output	TAPE RECORD BIAS.
5	P34	T_T1/T2	Output	TAPE T1/T2 CHANGE.
6	P33	REC/PLAY	Output	TAPE REC/PLAY CHANGE.
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	RESET.
11	X2	X2	Output	MAIN CLOCK.
12	X1	X1	Input	MAIN CLOCK.
13	VPP/IC	XVPP/IC	—	GND
14*	XT2	XT2	—	OPEN.
15	P04	SPN	Input	TUNER SPAN CHANGE.
16	VDD	VDD	Input	(+) POWER SUPPLY.
17	P27	CD CLK	Output	CD DSP CLOCK.
18	P26	CD DI	Output	CD DSP COMMAND.
19	P25	CD DO	Input	CD DSP CODE Q OUT.
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	O/C SW	Input	CD OPEN/CLOSE SWITCH.
		DISC NO SW	Input	CD DISC NUMBER SWITCH.
		DSA_DATA	Input/Output	DS DATA INPUT.
27	ANI6	NO USE	Input	GND
		TUNER SM	Input	TUNER SIGNAL METER INPUT.
		DSA_ACK	Input/Output	DSA ACR.
28	ANI5	SPEANA 2	Input	SPEANA DATA INPUT 16 kHz.
29	ANI4	SPEANA 1	Input	SPEANA DATA INPUT 1 kHz.
30	ANI3	SPEANA 0	Input	SPEANA DATA INPUT 63 kHz.
31-33	ANI2-ANI0	KEY 2-KEY 0	Input	KEY INPUT.
34	AVDD	AVDD	Input	ANALOG VDD.
35	AVREF	AVREF	Input	ANALOG REF VOLTAGE.
36	INTP3	P_IN	Input	POWER FAILURE DETECT.
37	P02	JOG 1	Input	JOG VOLUME INPUT 1.
38	P01	JOG 0	Input	JOG VOLUME INPUT 0.
39	INTP0	REMOCON	Input	REMOCON INPUT.
40	VSS	VSS	—	GROUND VOLTAGE.
41	P74	SMUTE	Output	SYSTEM MUTE CONTROL.
42	P73	T_SOL_B	Output	TAPE 2 SOLENOID CONTROL.
43	P72	T_SOL_A	Output	TAPE 1 SOLENOID CONTROL.
44	P71	T_MOTOR	Output	TAPE MOTOR CONTROL.
45	P70	TIMER LED	Output	TIMER LED CONTROL.
46	VDD	VDD	Input	(+) 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.

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

IC701 RH-iX0427AWZZ: System Microcomputer (IX0427AW) (2/2)

Pin No.	Port Name	Terminal Name	Input/Output	Function
50	P124	T 1 RUN	Input	TAPE 1 RUN PULSE INPUT.
51	P123	T 2 RUN	Input	TAPE 2 RUN PULSE INPUT.
52	P122	CD CLAMP SW	Input	CD CHANGER CLAMP SWITCH.
53	P121	NO USE	Input	GND
54	P120	PLAY SW_B	Input	PLAY SWITCH FOR T 2.
55	P117	FPA	Input	TAPE 2 A-SIDE FULL PROOF.
56	P116	FPB	Input	TAPE 2 B-SIDE FULL PROOF.
57	P115	MIC SW	Input	MIC SWITCH.
58*	P114	LCK 0	Output	LED DRIVER LCK.
59	P113	DISTOUT	Output	DESTINATION OUTPUT.
60	FIP39	NO USE	Output	GND
61	FIP38	KARAOKE LATCH	Output	KARAOKE LATCH.
62	FIP37	NO USE	Output	GND
		MPEG_POW	Output	MPEG POWER CONTROL.
63	FIP36	NO USE	Output	GND
		RDS RST/ESS_ACK	Output	RDS FAN RESET.
64	FIP35	NO USE	Input	GND
		RDS RDDA/ESS_STB	Input	RDS TRANSMIT DATA INPUT/DSA STROBE.
65	FIP34	NO USE	Output	GND
		RDS RDCL/ESS_DI	Output	RDS CLOCK/DSA DATA OUTPUT.
66	FIP33	NO USE	Input	GND
		RDS READY/ESS_DO	Input	RDS READY/DSA DATA INPUT.
67	P103	DIST3	Input	DESTINATION INPUT.
	FIP32	P22	Output	FL DISPLAY DRIVER.
68	P102	DIST2	Input	DESTINATION INPUT.
	FIP31	P21	Output	FL DISPLAY DRIVER.
69	P101	DIST1	Input	DESTINATION INPUT.
	FIP30	P20	Output	FL DISPLAY DRIVER.
70	P100	DIST0	Input	DESTINATION INPUT.
	FIP29	P19	Output	FL DISPLAY DRIVER.
71-78	FIP28-FIP21	P18-P11	Output	FL DISPLAY DRIVER.
79	VLOAD	VLOAD	Input	FL DRIVER (-) POWER SUPP. -30 V
80-89	FIP20-FIP11	P10-P1	Output	FL DISPLAY DRIVER.
90-100	FIP10-FIP0	G11-G1	Output	FL DISPLAY DRIVER.

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

IC601 VHiLC75341/-1: Audio Processor (LC75341)

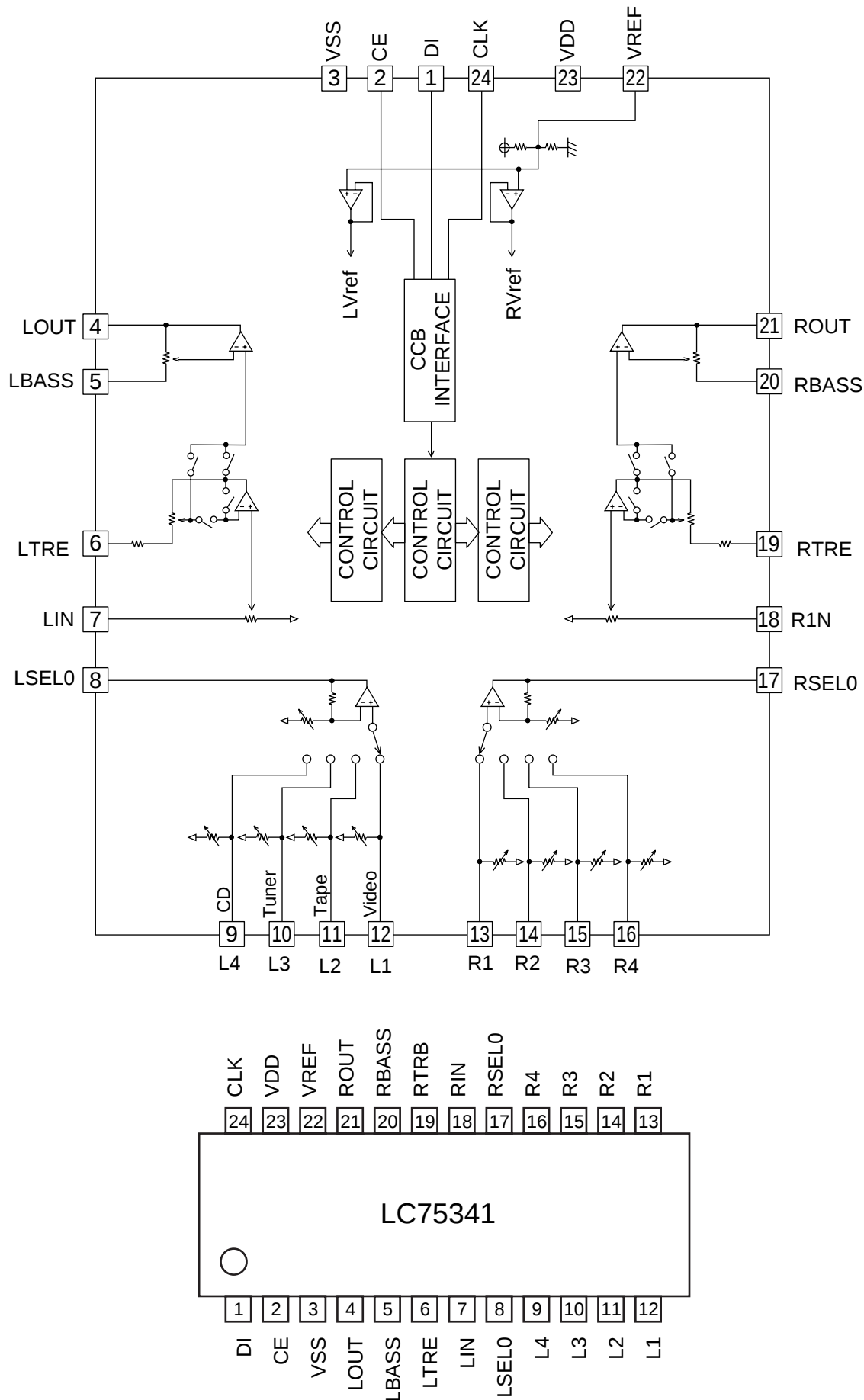


Figure 50 BLOCK DIAGRAM OF IC

ICK1 VHiM65856SP-1: Mic Amp. (M65856SP) (1/2)

Pin No.	Port Name	Input/Output	Function
1	MIC SW	Input	Microphone SW L: MIC OFF, H: MIC ON
2	MCLKCONT	—	Clock Control. Controls built-in clock generation circuit with external R.
3	VALC	—	ALC operating voltage setting terminal. To set ALC operating voltage according to applied voltage.
4	MIC1 IN	Input	Microphone 1 input. To connect MIC 1.
5*	ALC1	—	ALC1 control. To connect ALC1 attack/recovery time setting capacitor.
6*	MIC1NFIN	Input	Microphone 1 negative feedback input. To connect low cut-off frequency of MIC1 amplifier setting capacitor.
7*	MIC1 OUT	Output	Microphone 1 output.
8	MIC1 VOLIN	Input	Microphone 1 volume input. To connect capacitor to reduce noise generated at time of volume change.
9	MIC2 IN	Input	Microphone 2 input. To connect MIC 2.
10	ALC2	—	ALC2 control. To connect ALC2 attack/recovery time setting capacitor.
11	MIC2 NFIN	Input	Microphone 2 negative feedback input. To connect low cut-off frequency of MIC2 amplifier setting capacitor.
12	MIC2 OUT	Output	Microphone 2 output.
13	MIC2 VOLIN	Input	Microphone 2 volume input. To connect capacitor to reduce noise generated at time of volume change.
14	MICOUT	Output	Microphone output. Mixing output of MIC 1 and MIC 2.
15	LPF1IN1	Input	Low pass filter 1 input 1. Pre-filter before A/D convertor for digital delay.
16	LPF1 IN2	Input	Low pass filter 1 input 2. Pre-filter before A/D convertor for digital delay.
17	LPF1 OUT	Output	Low pass filter 1 output. Pre-filter before A/D convertor for digital delay.
18	AD INTOUT	Output	A/D integrator output. Composes D/A conversion integrator with external capacitor.
19	AD INTIN	Input	A/D integrator input. Composes D/A conversion integrator with external capacitor.
20	ADCONT	—	A/D control. To determine adaptive time constant of A/D convertor with ADM system.
21	REF	—	Reference power output. To connect 1/2 Vcc output and filter capacitor.
22	GND	—	Ground.
23	VCC	Input	Power supply.
24	DACONT	—	D/A control. To determine adaptive time constant of D/A convertor with ADM system .
25	DAINTIN	Input	D/A Integrator input. Composes D/A conversion integrator with external capacitor.
26	DAINTOUT	Output	D/A Integrator output. Composes D/A conversion integrator with external capacitor.
27	LPF2IN1	Input	Low pass filter 2 input 1. Post-filter after D/A convertor for digital delay.
28	LPF2IN2	Input	Low pass filter 2 input 2. Post-filter after D/A convertor for digital delay.
29	LPF2OUT	Output	Low pass filter 2 output. Post-filter after D/A convertor for digital delay.
30	VOLIN	Input	Echo effect/Echo feed back volume input. To connect capacitor to reduce noise generated at time of volume change.
31	L IN	Input	Lch line input.
32	R IN	Input	Rch line input.

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

CD-BK250W/CD-BK2600W/CD-BK270W

ICK1 VHIM65856SP-1: Mic Amp. (M65856SP) (2/2)

Pin No.	Port Name	Input/Output	Function
33*	KEYCONIN	Input	Monaural input for external KEYCONTROL IC. Input/Output interface terminal for external KEYCONTROL IC.
34*	SOURCEOUT	Output	Monaural input for external KEYCONTROL IC. Input/Output interface terminal for external KEYCONTROL IC.
35	R OUT	Output	Rch mixing output.
36	L OUT	Output	Lch mixing output.
37	VCF IL	—	Vocal cut filter. Processes frequencies lower then the vocal band.
38*	PS1	Input	Phase shift input 1. Determines a constant at time of phase shift.
39*	PS2	Input	Phase shift input 2. Determines a constant at time of phase shift.
40	LATCH	Input	Latch input via serial bus.
41	CLOCK	Input	Clock input via serial bus.
42	DATA	Input	Data input via serial bus.

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

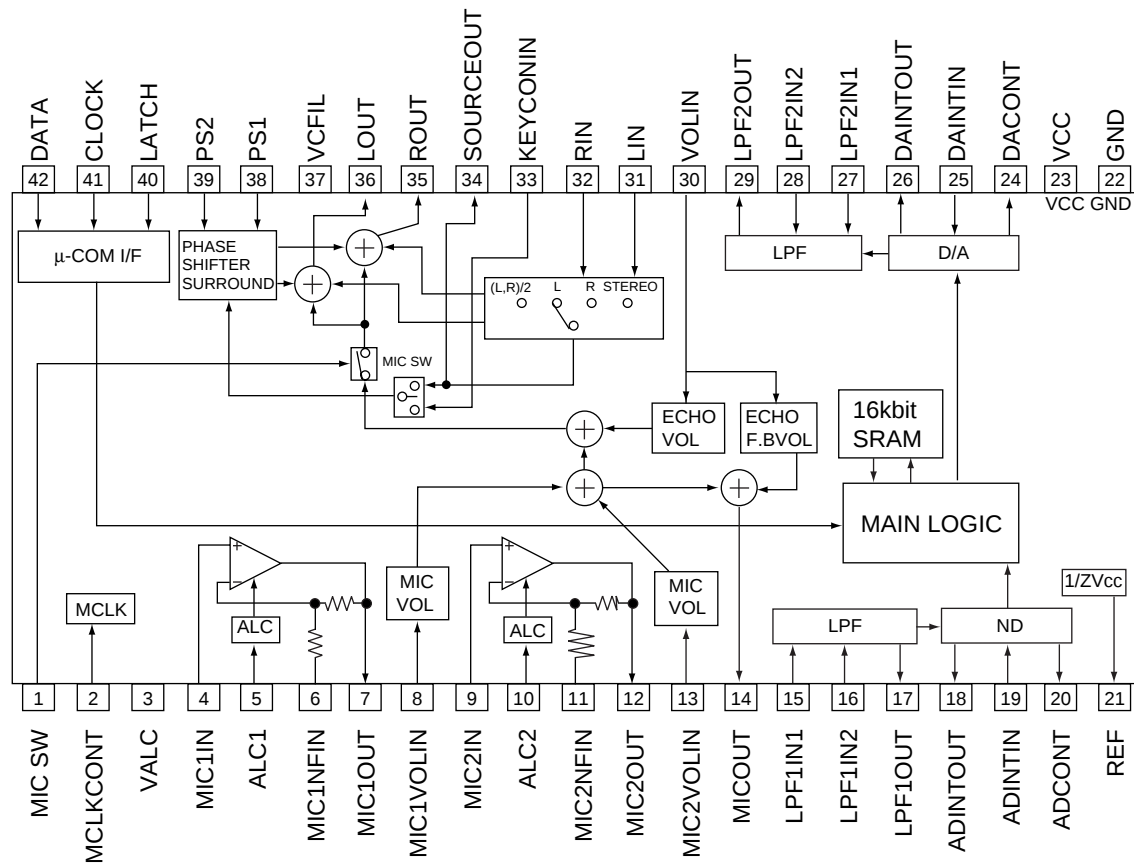
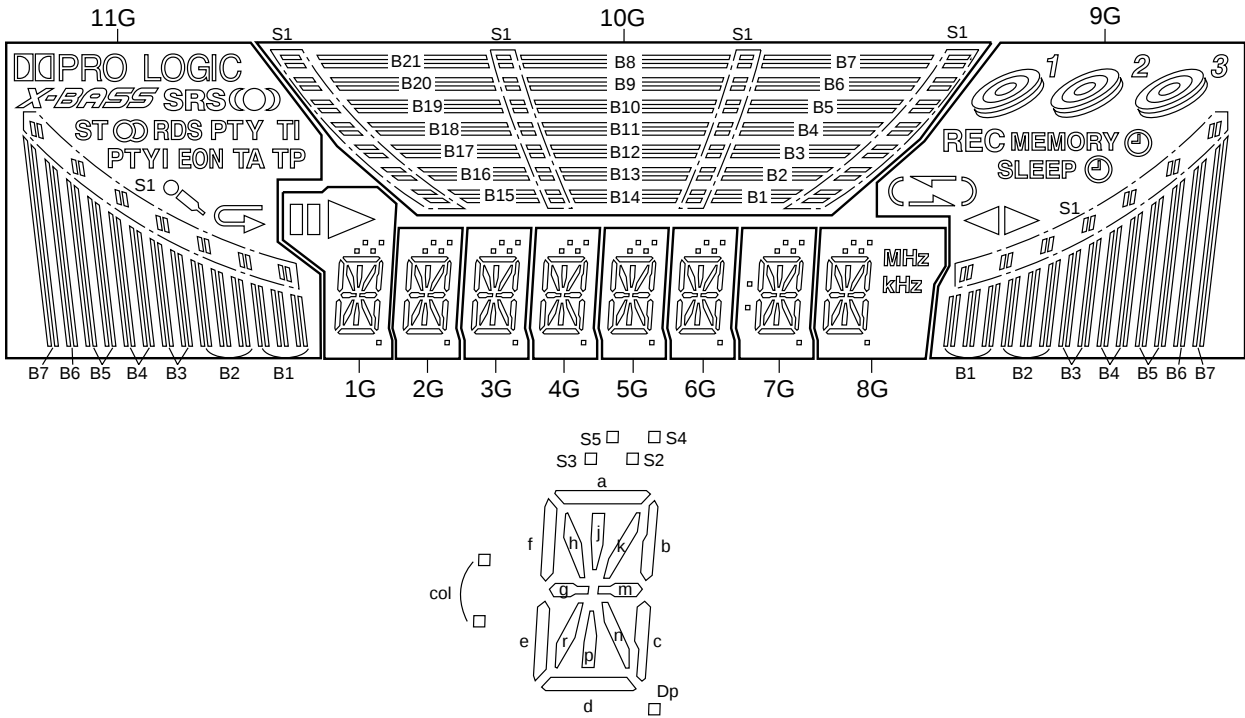


Figure 52 BLOCK DIAGRAM OF IC

FL DISPLAY

FL701 VVKBJ749GNK-1: FL Display



	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	S1	S1	S1	Dp	Dp	Dp	Dp	Dp	Dp	Dp	Dp
P2	B1	B1	B1	d	d	d	d	d	d	d	d
P3	B2	B2	B2	c	c	c	c	c	c	c	c
P4	B3	B3	B3	n	n	n	n	n	n	n	n
P5	B4	B4	B4	p	p	p	p	p	p	p	p
P6	B5	B5	B5	r	r	r	r	r	r	r	r
P7	B6	B6	B6	e	e	e	e	e	e	e	e
P8	B7	B7	B7	m	m	m	m	m	m	m	m
P9		B8	1	g	g	g	g	g	g	g	g
P10	X-BASS	B9	2		col						
P11		B10	3	b	b	b	b	b	b	b	b
P12	ST	B11	REC	k	k	k	k	k	k	k	k
P13	OD	B12	MEMORY	j	j	j	j	j	j	j	j
P14	RDS	B13	(Hiper)	h	h	h	h	h	h	h	h
P15	PTY	B14	(Lower)	f	f	f	f	f	f	f	f
P16	TI	B15	SLEEP	a	a	a	a	a	a	a	a
P17	TP	B16	(C)	S2	S2	S2	S2	S2	S2	S2	S2
P18	TA	B17	(H)	S3	S3	S3	S3	S3	S3	S3	S3
P19	PTYI	B18	(M)	S4	S4	S4	S4	S4	S4	S4	S4
P20	EON	B19	(L)	S5	S5	S5	S5	S5	S5	S5	S5
P21	(P)	B20	(R)	MHz							(R)
P22	(C)	B21		kHz							(C)

CD-BK250W/CD-BK2600W/CD-BK270W

— MEMO —

SHARP PARTS GUIDE

MINI COMPONENT SYSTEM

MODEL CD-BK250W

CD-BK250W Mini Component System consisting of CD-BK250W (main unit) and CP-BK250 (speaker system).

MINI COMPONENT SYSTEM

MODEL CD-BK2600W

CD-BK2600W Mini Component System consisting of CD-BK2600W (main unit) and CP-BK2600 (speaker system).

MINI COMPONENT SYSTEM

MODEL CD-BK270W

CD-BK270W Mini Component System consisting of CD-BK270W (main unit), CP-BK270 (front speakers) and GBOXS0070AWM1 (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" ±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-BK250W/CD-BK2600W/CD-BK270W

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
CD-BK250W/CD-BK2600W/CD-BK270W				
INTEGRATED CIRCUITS				
IC1	VHILC78645E-1	J	AY	CD Servo,LC78645E
IC2	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
IC561,562	VHIKIA4558P-1	J	AC	Ope Amp.,KIA4558P
IC601	VHILC75341/-1	J	AM	Audio Processor,LC75341
IC701	RH-IX0427AWZZ	J		System Microcomputer, IX0427AW
IC901	VHISTK4029S-1	J	BA	Power Amp.,STK4029S
IC902	VSKTC2026//1	J	AF	Silicon,NPN,KTC2026
IC903	VHIKIA7810AP1	J	AF	Voltage Regulator,KIA7810AP
IC904	VHIKIA7805AP1	J	AF	Constant Voltage Regulator, KIA7805AP
ICK1	VHIM65856SP-1	J	AX	Mic Amp.,M65856SP
ICK2	VHIKIA4558P-1	J	AC	Ope Amp.,KIA4558P

TRANSISTORS

Q1	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q2	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y
Q3	VSKRC102M//1	J	AC	Digital,NPN,KRC102 M
Q101~104	VS2SC1845F/-1	J	AC	Silicon,NPN,2SC1845 F
Q105~108	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q109	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q110	VSKRC104M//1	J	AC	Digital,NPN,KRC104 M
Q111	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y
Q112	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q113,114	VSKRC104M//1	J	AC	Digital,NPN,KRC104 M
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
Q603,604	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q701~703	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q706	VSKTA1273Y/-1	J	AE	Silicon,PNP,KTA1273 Y
Q707,708	VSKTA1271Y/-1	J	AC	Silicon,PNP,KTA1271 Y
Q709	VSKRC102M//1	J	AC	Digital,NPN,KRC102 M
Q901	VSKTA1274Y/-1	J	AE	Silicon,PNP,KTA1274 Y
Q902~905	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q906	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y
Q907	VSKRC107M//1	J	AC	Digital,NPN,KRC107 M
Q908	VSKRA107M//1	J	AE	Digital,PNP,KRA107 M
Q914	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
QK1	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y

DIODES

D1,2	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D301,302	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D305	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D561~563	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D690,691	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D701	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D705	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D709~716	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D901	VHDT56B04GM-1	J	AP	Silicon,TS6B04GM
D902~908	VHDDS1N404S-1	J	AB	Silicon,DS1N404S
D911~916	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D917	VHDDS1N404S-1	J	AB	Silicon,DS1N404S
DK1,2	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
LED701	VHPSLR342VCJ1	J	AC	LED,Red,SLR342VCJ1
ZD1	VHEDZ3R3BSB-1	J	AB	Zener,3.3V,DZ3.3BSB
ZD2	VHEDZ3R9BSB-1	J	AC	Zener,3.9V,DZ3.9BSB
ZD351	VHEDZ5R1BSB-1	J	AC	Zener,5.1V,DZ5.1BSB
ZD561	VHEDZ6R2BSB-1	J	AC	Zener,6.2V,DZ6.2BSB
ZD901	VHEDZ330BSB-1	J	AC	Zener,33V,DZ33BSB
ZD902	VHEDZ110BSB-1	J	AB	Zener,11V,DZ11BSB
ZD903	VHEDZ6R2BSA-1	J	AB	Zener,6.2V,DZ6.2BSA
ZD904	VHEDZ130BSB-1	J	AB	Zener,13V,DZ13BSB
ZD905	VHEDZ2R4BSB-1	J	AB	Zener,2.4V,DZ2.4BSB
ZDK1	VHEMTZJ5R6B-1	J	AD	Zener,5.6V,MTZJ5.6B

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	RTRNP0352AWZZ	J		Power
T301	RCILB0065AWZZ	J	AC	FM OSC.
T302	RCIL0017AWZZ	J	AB	FM IF
T303	RCILA0052AWZZ	J	AE	AM Tracking
T306	RCILB0067AWZZ	J	AD	AM OSC.
T351	RCIL0019AWZZ	J	AD	AM IF

COILS

L1	VP-XHR82K0000	J	AC	0.82 μH
L103	VP-MK331K0000	J	AB	330 μH,Choke
L312	RCILR0056AWZZ	J	AB	FM RF
L351	VP-DH101K0000	J	AB	100 μH,Choke
L701	VP-DH101K0000	J	AB	100 μH,Choke
L920,921	RCILZ0137AFZZ	J	AA	0.29 μH

VARIABLE RESISTOR

VRK1	92LVRR1674A	J	AF	20 kohms (B) [Mic Volume]
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VARIABLE CAPACITORS

VD301	VHCSVC348S/-1	J	AK	Variable Capacitance,SVC348S
VD302,303	VHCSVC211C/-1	J	AG	Variable Capacitance,SVC211C

VIBRATORS

X351	92LCRSTL1425A	J	AF	Crystal,456 kHz
X352	RCRSP0015AWZZ	J	AF	Crystal,4.5 MHz
XL1	RCRM-0041AWZZ	J	AF	Ceramic,33.8688 MHz
XL700	RCRSP0003AWZZ	J	AH	Crystal,4.194304 MHz

CAPACITORS

C1	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
C2	VCTYMN1CY103N	J	AA	0.01 μF,16V
C3	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
C4	VCKYMN1HB102K	J	AA	0.001 μF,50V
C5	VCQYKA1HM473J	J	AB	0.047 μF,50V,Mylar
C6	VCTYPA1CX104K	J	AB	0.1 μF,16V
C7	VCKYMN1HB101K	J	AA	100 pF,50V
C8	VCTYMN1CX472K	J	AA	0.0047 μF,16V
C9	VCEAZA1AW107M	J	AB	100 μF,10V,Electrolytic
C10	VCEAZA1HW106M	J	AB	10 μF,50V,Electrolytic
C11	VCEAZA1HW224M	J	AB	0.22 μF,50V,Electrolytic
C12	VCCSPA1HL101J	J	AA	100 pF,50V
C13	VCTYMN1EF223Z	J	AA	0.022 μF,25V
C14	RC-EZY107AF1A	J	AB	100 μF,10V,Electrolytic
C16	VCEAEA0JW337M	J	AD	330 μF,6.3V,Electrolytic
C18	VCEAZA1AW107M	J	AB	100 μF,10V,Electrolytic
C23,24	RC-EZY106AF1H	J	AB	10 μF,50V,Electrolytic
C25,26	VCTYMN1CX152K	J	AA	0.0015 μF,16V
C27	VCTYMN1EF223Z	J	AA	0.022 μF,25V
C28	VCKYMN1HB101K	J	AA	100 pF,50V
C30	VCKYMN1HB101K	J	AA	100 pF,50V
C32~34	VCKYMN1HB101K	J	AA	100 pF,50V
C35	VCQYKA1HM473J	J	AB	0.047 μF,50V,Mylar
C36	VCEAZA1HW225M	J	AB	2.2 μF,50V,Electrolytic
C37	VCTYPA1CX104K	J	AB	0.1 μF,16V
C38	VCTYMN1CY103N	J	AA	0.01 μF,16V
C39	VCEAZA1AW107M	J	AB	100 μF,10V,Electrolytic
C40	VCEAZA0JW227M	J	AC	220 μF,6.3V,Electrolytic
C41	VCEAZA1AW107M	J	AB	100 μF,10V,Electrolytic
C42	VCTYMN1CY103N	J	AA	0.01 μF,16V
C44	VCKYMN1HB102K	J	AA	0.001 μF,50V
C48	VCKZPA1HF223Z	J	AA	0.022 μF,50V
C49	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
C50	VCCCPA1HH220J	J	AA	22 pF (CH),50V
C51	VCTYBT1EF223Z	J	AA	0.022 μF,25V
C101,102	VCKYMN1HB561K	J	AA	560 pF,50V
C103,104	VCKYMN1HB181K	J	AA	180 pF,50V
C105,106	VCKYMN1HB561K	J	AA	560 pF,50V
C107~110	VCKYMN1HB331K	J	AA	330 pF,50V

CD-BK250W/CD-BK2600W/CD-BK270W

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION	NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
C111,112	VCEAZA1EW107M	J	AB	100 μF,25V,Electrolytic	C398	VCEAZA1AW107M	J	AB	100 μF,10V,Electrolytic
C113,114	VCTYPA1EX333K	J	AA	0.033 μF,25V	C399	VCTYMN1EF223Z	J	AA	0.022 μF,25V
C115,116	VCKYMN1HB561K	J	AA	560 pF,50V	C561	VCKYPA1HB271K	J	AA	270 pF,50V
C117,118	VCEAZA1HW476M	J	AB	47 μF,25V,Electrolytic	C562	VCKYMN1HB271K	J	AA	270 pF,50V
C119	VCKYPA1HB222K	J	AA	0.0022 μF,50V	C563	VCEAZA1HW225M	J	AB	2.2 μF,50V,Electrolytic
C120	VCTYMN1CX222K	J	AA	0.0022 μF,16V	C564,565	VCTYMN1CX272K	J	AA	0.0027 μF,16V
C121	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C566	VCEAZA1HW225M	J	AB	2.2 μF,50V,Electrolytic
C122	VCEAZA1HW335M	J	AB	3.3 μF,50V,Electrolytic	C567,568	VCTYMN1CX682K	J	AA	0.0068 μF,16V
C123,124	VCKYMN1HB271K	J	AA	270 pF,50V	C569	VCEAZA1HW225M	J	AB	2.2 μF,50V,Electrolytic
C125,126	VCEAZA1HW226M	J	AB	22 μF,50V,Electrolytic	C570-572	VCTYMN1EF223Z	J	AA	0.022 μF,25V
C127,128	VCKZPA1HF223Z	J	AA	0.022 μF,50V	C573	VCKZPA1HF223Z	J	AA	0.022 μF,50V
C129,130	VCTYMN1CX332K	J	AA	0.0033 μF,16V	C601	VCEAZA1CW227M	J	AC	220 μF,16V,Electrolytic
C131,132	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic	C603	VCEAZA1HW226M	J	AB	22 μF,50V,Electrolytic
C133	VCEAZA1HW226M	J	AB	22 μF,50V,Electrolytic	C605,606	VCFYDA1HA154J	J	AB	0.15 μF,50V,Polyester
C134	VCEAZA1AW227M	J	AC	220 μF,10V,Electrolytic	C607,608	VCFYHA1HA104J	J	AB	0.1 μF,50V,Thin Film
C135	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C609,610	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic
C136	VCKZPA1HF223Z	J	AA	0.022 μF,50V	C611,612	VCTYMN1CX272K	J	AA	0.0027 μF,16V
C137	VCQYKA1HM473K	J	AB	0.047 μF,50V,Mylar	C613,614	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic
C138	VCQPKA2AA822J	J	AA	0.0082 μF,100V,Polypropylene	C615,616	VCEAZA1HW475M	J	AB	4.7 μF,50V,Electrolytic
C139	VCQYKA1HM393K	J	AB	0.039 μF,50V,Mylar	C617-624	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic
C140	VCEAZA1HW476M	J	AB	47 μF,25V,Electrolytic	C625,626	VCTYMN1CX562K	J	AA	0.0056 μF,16V
C141	VCEAZA1CW107M	J	AC	100 μF,16V,Electrolytic	C635-638	VCKYMN1HB102K	J	AA	0.001 μF,50V
C150	VCEAZA1HW106M	J	AB	10 μF,50V,Electrolytic	C639	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic
C301	VCTYMN1CY103N	J	AA	0.01 μF,16V	C640	VCEAZA1HW226M	J	AB	22 μF,50V,Electrolytic
C303	VCCCMN1HH100J	J	AA	10 pF (CH),50V	C690,691	VCKYMN1HB391K	J	AA	390 pF,50V
C304	VCTYMN1CY103N	J	AA	0.01 μF,16V	C693	VCKYMN1HB102K	J	AA	0.001 μF,50V
C305	VCCCMN1HH4R7C	J	AA	4.7 pF (CH),50V	C701	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic
C306	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C702	VCEAZA1AW227M	J	AC	220 μF,10V,Electrolytic
C307	VCEAZA1HW106M	J	AB	10 μF,50V,Electrolytic	C703	VCTYMN1EF223Z	J	AA	0.022 μF,25V
C308	VCCCMN1HH4R7C	J	AA	4.7 pF (CH),50V	C704	VCCSMN1HL150J	J	AA	15 pF,50V
C309	VCKYMN1HB102K	J	AA	0.001 μF,50V	C705	VCCSMN1HL180J	J	AA	18 pF,50V
C310	VCCCMN1HH150J	J	AA	15 pF (CH),50V	C706	VCEAZA1HW476M	J	AB	47 μF,50V,Electrolytic
C311	VCCSMN1HL180J	J	AA	18 pF,50V	C707	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic
C312	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C712	VCEAZA1HW476M	J	AB	47 μF,50V,Electrolytic
C313	VCCSMN1HL220J	J	AA	22 pF,50V	C714	VCEAZA1HW335M	J	AB	3.3 μF,50V,Electrolytic
C314,315	VCTYMN1CX472K	J	AA	0.0047 μF,16V	C715	VCTYMN1CY103N	J	AA	0.01 μF,16V
C316	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C716	VCTYMN1EF223Z	J	AA	0.022 μF,25V
C317	VCKYMN1HB102K	J	AA	0.001 μF,50V	C717	VCEAZA1HW476M	J	AB	47 μF,50V,Electrolytic
C318	VCKYMN1HB101K	J	AA	100 pF,50V	C734,735	VCCSPA1HL221J	J	AA	220 pF,50V
C323	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C901,902	VCQYKA1HM104K	J	AB	0.1 μF,50V,Mylar
C324	VCCUMN1HJ3R9K	J	AA	3.9 pF (UJ),50V	C903,904	RC-EZ0063AWZZ	J	AM	2200 μF,63V,Electrolytic
C330	VCCSMN1HL150J	J	AA	15 pF,50V	C905,906	VCQYKA1HM104K	J	AB	0.1 μF,50V,Mylar
C331	VCKZPA1HF473Z	J	AA	0.047 μF,50V	C907	VCEAZW1VW228M	J	AH	2200 μF,35V,Electrolytic
C332	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C908,909	VCEAZA1HW107M	J	AC	100 μF,50V,Electrolytic
C334	VCCCMN1HH220J	J	AA	22 pF (CH),50V	C910	VCEAZA1HW227M	J	AC	220 μF,50V,Electrolytic
C335	VCKYMN1HB561K	J	AA	560 pF,50V	C911,912	VCEAZA1HW476M	J	AB	47 μF,50V,Electrolytic
C338	VCKYMN1HB102K	J	AA	0.001 μF,50V	C913	VCEAZA1VW107M	J	AC	100 μF,35V,Electrolytic
C340	VCKYMN1HB102K	J	AA	0.001 μF,50V	C915	VCKZPA1HF223Z	J	AA	0.022 μF,50V
C342	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C916	VCEAZA1HW226M	J	AB	22 μF,50V,Electrolytic
C350	VCKZPA1HF223Z	J	AA	0.022 μF,50V	C918	VCQYKA1HM104K	J	AB	0.1 μF,50V,Mylar
C352	VCEAZA1HW106M	J	AB	10 μF,50V,Electrolytic	C920	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
C353,354	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C921	VCQYKA1HM104K	J	AB	0.1 μF,50V,Mylar
C355	VCCSMN1HL220J	J	AA	22 pF,50V	C923	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
C356	VCKYMN1HB102K	J	AA	0.001 μF,50V	C930,931	VCEAZA1HW224M	J	AB	0.22 μF,50V,Electrolytic
C357	VCEAZA1HW225M	J	AB	2.2 μF,50V,Electrolytic	C932,933	VCKYMN1HB102K	J	AA	0.001 μF,50V
C358	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic	C934,935	VCEAZA1HW475M	J	AB	4.7 μF,50V,Electrolytic
C361	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C936,937	VCCSMN1HL150J	J	AA	15 pF,50V
C362	VCEAZA1HW335M	J	AB	3.3 μF,50V,Electrolytic	C938,939	VCKYMN1HB821K	J	AA	820 pF,50V
C363	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C940,941	VCEAZA1HW107M	J	AC	100 μF,50V,Electrolytic
C364	VCEAZA1HW225M	J	AB	2.2 μF,50V,Electrolytic	C942	VCFYDA1HA224J	J	AB	0.22 μF,50V,Polyester
C365	VCKZPA1HF223Z	J	AA	0.022 μF,50V	C945,946	VCEAZA1HW106M	J	AB	10 μF,50V,Electrolytic
C366	VCKYMN1HB102K	J	AA	0.001 μF,50V	C947	VCTYMN1EF223Z	J	AA	0.022 μF,25V
C367,368	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic	C948	VCKZPA1HF223Z	J	AA	0.022 μF,50V
C369	VCCSMN1HL270J	J	AA	27 pF,50V	C949	VCEAZA1HW476M	J	AB	47 μF,50V,Electrolytic
C370-372	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic	C952,953	VCQYKA1HM473K	J	AB	0.047 μF,50V,Mylar
C373,374	VCTYPA1CX153K	J	AA	0.015 μF,16V	C967	VCEAZA1HW476M	J	AB	47 μF,50V,Electrolytic
C380	VCEAZA1HW106M	J	AB	10 μF,50V,Electrolytic	C968	VCEAZA1HW106M	J	AB	10 μF,50V,Electrolytic
C381	VCCCMN1HH120J	J	AA	12 pF (CH),50V	C969	VCEAZA1HW335M	J	AB	3.3 μF,50V,Electrolytic
C382	VCCCMN1HH150J	J	AA	15 pF (CH),50V	C970	VCEAZW1CW688M	J	AH	6800 μF,16V,Electrolytic
C384	VCKYMN1HB102K	J	AA	0.001 μF,50V	CK1	VCTYPA1CX103K	J	AA	0.01 μF,16V
C385	VCTYMN1CY103N	J	AA	0.01 μF,16V	CK2	VCFYHA1HA474J	J	AD	0.47 μF,50V,Thin Film
C386	VCKYMN1HB331K	J	AA	330 pF,50V	CK3	VCKYBT1HB102K	J	AA	0.001 μF,50V
C387	VCTYMN1EF223Z	J	AA	0.022 μF,25V	CK6	VCFYDA1HA104J	J	AB	0.1 μF,50V,Thin Film
C388	VCKYMN1HB102K	J	AA	0.001 μF,50V	CK7	VCFYHA1HA474J	J	AD	0.47 μF,50V,Thin Film
C389	VCTYMN1EF223Z	J	AA	0.022 μF,25V	CK8	RC-EZY475AF1H	J	AB	4.7 μF,50V,Electrolytic
C391	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic	CK9	RC-EZY225AF1H	J	AB	2.2 μF,50V,Electrolytic
C392	VCKYMN1HB102K	J	AA	0.001 μF,50V	CK10,11	VCFYDA1HA104J	J	AB	0.1 μF,50V,Thin Film
C393	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic	CK12	RC-EZY225AF1H	J	AB	2.2 μF,50V,Electrolytic
C394	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic	CK13	VCTYPA1CX472K	J	AA	0.0047 μF,16V
C395	VCTYMN1EF223Z	J	AA	0.022 μF,25V	CK14	VCTYPA1CX102K	J	AA	0.001 μF,16V
C396	VCEAZA1AW107M	J	AB	100 μF,10V,Electrolytic	CK15	VCFYDA1HA683J	J	AB	0.068 μF,50V,Polyester
C397	VCTYMN1EF223Z	J	AA	0.022 μF,25V	CK16	VCFYHA1HA224J	J	AC	0.22 μF,50V,Thin Film

CD-BK250W/CD-BK2600W/CD-BK270W

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
CK17	VCEAEA1AW227M	J		220 μF,10V,Electrolytic
CK19	VCTYBT1EF223Z	J	AA	0.022 μF,25V
CK20	VCFYHA1HA224J	J	AC	0.22 μF,50V,Thin Film
CK21	VCFYDA1HA683J	J	AB	0.068 μF,50V,Polyester
CK22	VCTYPA1CX472K	J	AA	0.0047 μF,16V
CK23	VCKYPA1HB102K	J	AA	0.001 μF,50V
CK24~26	VCEAZA1HW225M	J	AB	2.2 μF,50V,Electrolytic
CK29,30	VCEAZA1HW225M	J	AB	2.2 μF,50V,Electrolytic
CK31	VCFYDA1HA154J	J	AB	0.15 μF,50V,Polyester
CK33~35	VCCSBT1HL470J	J	AA	47 pF,50V
CK41	VCEAZA1CW107M	J	AC	100 μF,16V,Electrolytic
CK42	VCTYBT1EF223Z	J	AA	0.022 μF,25V
CK43,44	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
CK45,46	RC-EZY225AF1H	J	AB	2.2 μF,50V,Electrolytic
CK47,48	VCCSPA1HL221J	J	AA	220 pF,50V
CK49,50	VCCSPA1HL101J	J	AA	100 pF,50V
CK51,52	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic
CK53	VCEAZA1HW476M	J	AB	47 μF,50V,Electrolytic
CK72	VCEAZA1CW107M	J	AC	100 μF,16V,Electrolytic
CR1,2	VCEAZA1HW226M	J	AB	22 μF,50V,Electrolytic
CT1	VCKZPA1HF103Z	J	AA	0.01 μF,50V

RESISTORS

	VRD-MN2BD000C	J	AA	0 ohm,Jumper,ø1.4×3.5mm,Ivory
R1,2	VRD-ST2CD123J	J	AA	12 kohms,1/6W
R3	VRD-ST2CD333J	J	AA	33 kohms,1/6W
R4,5	VRD-ST2CD123J	J	AA	12 kohms,1/6W
R6	VRD-ST2CD333J	J	AA	33 kohms,1/6W
R7	VRD-ST2CD470J	J	AA	47 ohms,1/6W
R9	VRD-ST2CD3R3J	J	AA	3.3 ohms,1/6W
R10	VRD-ST2CD273J	J	AA	27 kohms,1/6W
R11	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R12	VRD-MN2BD331J	J	AA	330 ohms,1/8W
R13~17	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R18	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R19	VRD-ST2CD153J	J	AA	15 kohms,1/6W
R20	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R22	VRD-ST2CD101J	J	AA	100 ohm,1/6W
R23	VRD-MN2BD221J	J	AA	220 ohms,1/8W
R24,25	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R26,27	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R28,29	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R30	VRD-ST2CD822J	J	AA	8.2 kohms,1/6W
R31~38	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R39,40	VRD-MN2BD681J	J	AA	680 ohms,1/8W
R41	VRD-MN2BD123J	J	AA	12 kohms,1/8W
R42	VRD-MN2BD122J	J	AA	1.2 kohms,1/8W
R43	VRD-MN2BD101J	J	AA	100 ohm,1/8W
R44	VRD-ST2CD123J	J	AA	12 kohms,1/6W
R45,46	VRD-MN2BD471J	J	AA	470 ohms,1/8W
R47	VRD-MN2BD101J	J	AA	100 ohm,1/8W
R49	VRD-ST2EE1R0J	J	AA	1 ohm,1/4W
R65	VRD-ST2CD332J	J	AA	3.3 kohms,1/6W
△ R80	VRG-ST2EG3R3J	J	AB	3.3 ohms,1/4W,Fusible
R101,102	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R103,104	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R105,106	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R107,108	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R109,110	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R111	VRD-MN2BD153J	J	AA	15 kohms,1/8W
R112	VRD-ST2CD153J	J	AA	15 kohms,1/6W
R113,114	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R115,116	VRD-ST2CD560J	J	AA	56 ohms,1/6W
R117,118	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R119,120	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R121,122	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R123,124	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R125	VRD-MN2BD683J	J	AA	68 kohms,1/8W
R126,127	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R128,129	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W
R130,131	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
R132,133	VRD-MN2BD101J	J	AA	100 ohm,1/8W
R134,135	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R136,137	VRD-ST2CD224J	J	AA	220 kohms,1/6W
R138	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R139	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R140	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R141	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R142	VRD-ST2CD820J	J	AA	82 ohms,1/6W
R143	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R144	VRD-MN2BD223J	J	AA	22 kohms,1/8W

	VRD-ST2CD4R7J	J	AA	4.7 ohms,1/6W
R145	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R146,147	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R148	VRD-ST2EE151J	J	AA	150 ohms,1/4W
R149	VRD-ST2EE221J	J	AA	220 ohms,1/4W
R158	VRD-MN2BD100J	J	AA	10 ohm,1/8W
R302	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R309	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R311	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R313	VRD-ST2CD220J	J	AA	22 ohms,1/6W
R314	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R316	VRD-MN2BD681J	J	AA	680 ohms,1/8W
R322	VRD-MN2BD683J	J	AA	68 kohms,1/8W
R323	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R325	VRD-MN2BD330J	J	AA	33 ohms,1/8W
R327	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R336	VRD-MN2BD272J	J	AA	2.7 kohms,1/8W
R350	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R351	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R352	VRD-MN2BD271J	J	AA	270 ohms,1/8W
R353	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R355	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R356	VRD-ST2CD474J	J	AA	470 kohms,1/6W
R357	VRD-ST2CD392J	J	AA	3.9 kohms,1/6W
R358	VRD-MN2BD182J	J	AA	1.8 kohms,1/8W
R359	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R360	VRD-MN2BD153J	J	AA	15 kohms,1/8W
R361,362	VRD-MN2BD123J	J	AA	12 kohms,1/8W
R363,364	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R365	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R372~374	VRD-ST2CD471J	J	AA	470 ohms,1/6W
R375	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R376	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R377	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R378	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R379	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
R380	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R381	VRD-ST2EE151J	J	AA	150 ohms,1/4W
R382	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R383	VRD-MN2BD562J	J	AA	5.6 kohms,1/6W
R384	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R385	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
R386	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R387	VRD-ST2EE271J	J	AA	270 ohms,1/4W
R388	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R391,392	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R393	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R395	VRD-MN2BD824J	J	AA	820 kohms,1/8W
R561	VRD-ST2EE271J	J	AA	270 ohms,1/4W
R562	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R563	VRD-ST2CD224J	J	AA	220 kohms,1/6W
R565	VRD-MN2BD683J	J	AA	68 kohms,1/8W
R566	VRD-MN2BD224J	J	AA	220 kohms,1/8W
R567	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R568	VRD-ST2CD123J	J	AA	12 kohms,1/6W
R569	VRD-MN2BD394J	J	AA	390 kohms,1/8W
R570	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R571	VRD-MN2BD563J	J	AA	56 kohms,1/8W
R572	VRD-MN2BD105J	J	AA	1 Mohm,1/8W
R573	VRD-MN2BD474J	J	AA	470 kohms,1/8W
R574	VRD-MN2BD225J	J	AA	2.2 Mohms,1/8W
R575	VRD-MN2BD154J	J	AA	150 kohms,1/8W
R576	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R577	VRD-ST2CD153J	J	AA	15 kohms,1/6W
R578	VRD-MN2BD184J	J	AA	180 kohms,1/8W
R579	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R580	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R601~603	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R604,605	VRD-MN2BD122J	J	AA	1.2 kohms,1/8W
R606,607	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R608,609	VRD-MN2BD391J	J	AA	390 ohms,1/8W
R610,611	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R612,613	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R614,615	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R616	VRD-ST2CD331J	J	AA	330 ohms,1/6W
R617	VRD-MN2BD223J	J	AA	22 kohms,1/8W
R618,619	VRD-MN2BD224J	J	AA	220 kohms,1/8W
R620,621	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W
R622,623	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R690,691	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R692,693	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R702~704				
R705~707				

CD-BK250W/CD-BK2600W/CD-BK270W

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
R708-712	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R713-717	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R718-721	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R724,725	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R726-728	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R729	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R731	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R732,733	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R734-736	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R738	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R739,740	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R741	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R746-748	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R749-751	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R752	VRD-MN2BD330J	J	AA	33 ohms,1/8W
R753	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R754	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R755	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R756	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R758-760	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R761	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R765	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R766-768	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R769	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R770	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R771	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R772	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R773	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R774	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R777-779	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R781	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R782	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R783	VRD-MN2BD101J	J	AA	100 ohm,1/8W
R901,902	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R903	VRD-RT2HD332J	J	AA	3.3 kohms,1/2W
R904	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R905	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R906	VRD-ST2CD100J	J	AA	10 ohm,1/6W
R907	VRD-ST2CD123J	J	AA	12 kohms,1/6W
R908	VRD-ST2EE561J	J	AA	560 ohms,1/4W
R909	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R930	VRD-ST2CD104J	J	AA	100 kohm,1/6W
R931	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R932,933	VRD-MN2BD563J	J	AA	56 kohms,1/8W
R934	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R935	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R936,937	VRD-MN2BD821J	J	AA	820 ohms,1/8W
R938,939	VRD-MN2BD563J	J	AA	56 kohms,1/8W
R940,941	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R942	VRD-MN2BD223J	J	AA	22 kohms,1/8W
△ R943,944	VRG-ST2EC101J	J	AB	100 ohm,1/4W,Fusible
R945-948	VRN-VV3DAR22J	J	AC	0.22 ohms,2W
R949,950	VRN-VV3AAR10J	J	AB	0.1 ohm,1W
R951	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R952	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R953	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
R954	VRD-ST2CD152J	J	AA	1.5 kohms,1/6W
R955-957	VRD-MN2BD563J	J	AA	56 kohms,1/8W
R958,959	VRD-ST2EE4R7J	J	AA	4.7 ohms,1/4W
R967,968	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R969	VRD-RT2HD4R7J	J	AA	4.7 ohms,1/2W
R970	VRD-RT2HD102J	J	AA	1 kohm,1/2W
R971	VRD-ST2CD683J	J	AA	68 kohms,1/6W
R972	VRD-ST2CD153J	J	AA	15 kohms,1/6W
R973	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R977,978	VRD-ST2EE470J	J	AA	47 ohms,1/4W
R981,982	VRD-RT2HD681J	J	AA	680 ohms,1/2W
R983	VRD-ST2CD224J	J	AA	220 kohms,1/6W
R984	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R986	VRD-RT2HD681J	J	AA	680 ohms,1/2W
R988	VRD-RT2HD681J	J	AA	680 ohms,1/2W
RD01	VRD-MN2BD681J	J	AA	680 ohms,1/8W
RD02	VRD-MN2BD821J	J	AA	820 ohms,1/8W
RD03	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RD04	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
RD05	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
RD06	VRD-MN2BD272J	J	AA	2.7 kohms,1/8W
RD07	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
RD08	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
RD09	VRD-MN2BD103J	J	AA	10 kohm,1/8W
RD10	VRD-MN2BD183J	J	AA	18 kohms,1/8W
RD11	VRD-MN2BD333J	J	AA	33 kohms,1/8W

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
RD12	VRD-MN2BD104J	J	AA	100 kohm,1/8W
RD13	VRD-MN2BD681J	J	AA	680 ohms,1/8W
RD14	VRD-MN2BD821J	J	AA	820 ohms,1/8W
RD15	VRD-ST2CD182J	J	AA	1.8 kohms,1/6W
RD16	VRD-ST2CD392J	J	AA	3.9 kohms,1/6W
RD17	VRD-MN2BD184J	J	AA	180 kohms,1/8W
RD18	VRD-MN2BD681J	J	AA	680 ohms,1/8W
RD19	VRD-ST2CD821J	J	AA	820 ohms,1/6W
RD20	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RD21	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
RD22	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
RD23	VRD-MN2BD272J	J	AA	2.7 kohms,1/8W
RD24	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
RD25	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
RD26	VRD-ST2CD103J	J	AA	10 kohm,1/6W
RD27	VRD-MN2BD183J	J	AA	18 kohms,1/8W
RD28	VRD-ST2CD333J	J	AA	33 kohms,1/6W
RD29	VRD-MN2BD104J	J	AA	100 kohm,1/8W
RD30	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
RK1	VRD-ST2CD103J	J	AA	10 kohm,1/6W
RK2,3	VRD-ST2CD563J	J	AA	56 kohms,1/6W
RK4	VRD-ST2CD103J	J	AA	10 kohm,1/6W
RK5	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RK7	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RK8	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
RK9-11	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RK12	VRD-ST2CD101J	J	AA	100 ohm,1/6W
RK13	VRD-ST2CD122J	J	AA	1.2 kohms,1/6W
RK14,15	VRD-RT2HD101J	J	AA	100 ohm,1/2W
RK36,37	VRD-ST2CD391J	J	AA	390 ohms,1/6W
RK38	VRD-ST2CD101J	J	AA	100 ohm,1/6W
RK39,40	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RK41,42	VRD-ST2CD103J	J	AA	10 kohm,1/6W
RK43	VRD-ST2CD183J	J	AA	18 kohms,1/6W
RK44,45	VRD-ST2CD682J	J	AA	6.8 kohms,1/6W
RK46	VRD-ST2CD183J	J	AA	18 kohms,1/6W
RK47	VRD-ST2CD822J	J	AA	8.2 kohms,1/6W
RK48	VRD-ST2CD103J	J	AA	10 kohm,1/6W
RK49,50	VRD-ST2CD103J	J	AA	10 kohm,1/6W

OTHER CIRCUITRY PARTS

BI4/CNS4	QCWNW1572AWZZ	J	AF	Connector Ass'y,6/6Pin
BI102/CNS102	QCWNW1974AWZZ	J	AF	Connector Ass'y,7/6Pin
BI601/CNS601	QCWNW1842AWZZ	J	AG	Connector Ass'y,6/6Pin
BI701/CNS8	QCWNW1843AWZZ	J	AH	Connector Ass'y,9/9Pin
BI902/CNS902	QCWNW1875AWZZ	J	AH	Connector Ass'y,10/10Pin
BI903/CNS903	QCWNW2028AWZZ	J		Connector Ass'y,3/3Pin [CD-BK270W Only]
BIK1/CNSK1	QCWNW1876AWZZ	J		Connector Ass'y,10/10Pin
CNP1	QCNCM704GAWZZ	J	AC	Plug,7Pin
CNP2	QCNCM704HAWZZ	J	AC	Plug,8Pin
CNP3	92LCONE6P53253	J	AC	Plug,6Pin
CNP4	QCNCM705FAFZZ	J	AB	Plug,6Pin
CNP7	92LCONE6P53254	J	AC	Plug,6Pin
CNP8	92LCONE9P53254	J	AD	Plug,9Pin
CNP101	QCNCM705CAFZZ	J	AA	Plug,3Pin
CNP301	92LCONE2P5268	J	AB	Plug,2Pin
CNP701	QCNCWZX32AWZZ	J		Socket,32Pin
CNP902	92LCONEAP5267	J	AC	Plug,10Pin
CNP971	92LCONE2P53253	J	AB	Plug,2Pin
CNP981	92LCONE5P52287	J	AC	Plug,5Pin
CNPK1	QCNCM705KAWZZ	J	AC	Plug,10Pin
CNR1	92LCONE3P53253	J	AB	Plug,3Pin [CD-BK270W Only]
CNS1A/B	QCWNW1537AWZZ	J	AG	Connector Ass'y,7/7Pin
CNS2A/B	QCWNW1538AWZZ	J	AG	Connector Ass'y,8/8Pin
CNS3A/B	QCWNW1539AWZZ	J	AE	Connector Ass'y,6/6Pin
CNS701	QCNCWZF32AWZZ	J		Socket,32Pin
CNS702	QCNCWZY10AWZZ	J		Socket,10Pin
CNS971	QCWNW1389AWZZ	J	AC	Connector Ass'y,2Pin
△ F901,902	QFS-D402CAWNI	J	AC	Fuse,T4A L 250V
△ F903,904	QFS-D202CAWNI	J	AC	Fuse,T2A L 250V
FFC701	QCWNW1878AWZZ	J		Flat Cable,32Pin
FFC702	QCWNW1845AWZZ	J		Flat Cable,10Pin
FL701	VVKBJ749GNK-1	J	BD	FL Display
FW981	QCWNW1836AWZZ	J	AD	Flat Wire,5Pin
JK1	QJAKJ0007AWZZ	J	AF	Jack,Mic
JK690	QSOCJ0219AWZZ	J	AD	Jack,Video/AUX In
JK701	QJAKM0004AWZZ	J	AK	Jack,Headphones
LG1	QLUGP0001AWZZ	J	AC	Lug
△ LUG1,2	92LLUG1746A	J	AA	Lug
M1	92LMTR2790CASY	J	BB	Motor with Chassis [Spindle]
M2	92LMTR1854BASY	J	AP	Motor with Gear [Sled]

CD-BK250W/CD-BK2600W/CD-BK270W

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION	NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
M3	92LTWMEN7E6Y	J	AR	Motor with Worm Pulley [T/T Up Down Loading]	201- 6	HDECQ0686AWSA	J	AE	Panel,Cassette [Tape 1]
M901	RMOTV0027AWZZ	J	AM	Motor,Air Cooling Fan	201- 7	HDECQ0687AWSA	J	AE	Panel,Cassette [Tape 2]
PINK1	QLUGP0002AWZZ	J	AB	Lug	201- 8	HDECQ0748AWSA	J		Panel,Amp. [For CD-BK250W]
RL914	RRLYD0016AWZZ	J	AH	Relay	201- 8	HDECQ0749AWSA	J		Panel,Amp. [For CD-BK2600W]
RX701	VHLN63H380A-1	J	AK	Remote Sensor,N63H380A	201- 8	HDECQ0775AWSA	J		Panel,Amp. [For CD-BK270W]
SO302	QTANC0206AWZZ	J	AD	FM Antenna Terminal	201- 9	JKNBZ0808AWSA	J	AE	Button,Power [For CD-BK250W/CD-BK270W]
SO901	QTANA0417AWZZ	J	AE	Terminal,Speaker	201- 9	JKNBZ0808AWSB	J	AE	Button,Power [For CD-BK2600W]
SR1	QTANA0420AWZZ	J		Terminal,Surround Speaker [CD-BK270W Only]	201-10	JKNBZ0778AWSA	J	AF	Button,Dimmer/Tuning [For CD-BK250W/CD-BK270W]
SW1	SWMPU10780MLB	J	AH	Switch,Push Type [Open/Close]	201-10	JKNBZ0778AWSB	J	AG	Button,Dimmer/Tuning [For CD-BK2600W]
SW2	SWMPU11470MLB	J	AE	Switch,Push Type [Clamp]	201-11	JKNBZ0779AWSA	J	AF	Button,Function
SW3	SWMPU11470MLB	J	AE	Switch,Push Type [Disc Number]	201-12	HDECQ0690AWSA	J	AC	Volume Ring
SW4	QSWF9001AW01	J	AD	Switch,Push Type [Pickup In]	201-13	JKNBZ0780AWSA	J	AF	Button,Disc Control [For CD-BK250W/CD-BK270W]
SW601	QSW-S0024AWZZ	J	AE	Switch,Slide Type [Span Selector]	201-13	JKNBZ0780AWSB	J	AF	Button,Disc Control [For CD-BK2600W]
SW701	92LSWICHT1663T	J	AC	Switch,Key Type [On/Stand-by]	201-14	JKNBZ0804AWSA	J		Button,Center Operation
SW702	92LSWICHT1663T	J	AC	Switch,Key Type [Clock]	201-15	GCOVA1351AWSA	J	AB	Cover,Operation LED A
SW703	92LSWICHT1663T	J	AC	Switch,Key Type [Timer/Sleep]	201-16	MLIFP0008AWZZ	J	AD	Damper
SW712	92LSWICHT1663T	J	AC	Switch,Key Type [Disc Skip]	201-17	MSPRD0092AWFJ	J	AB	Spring,Cassette [Tape 1]
SW713	92LSWICHT1663T	J	AC	Switch,Key Type [Open/Close]	201-18	MSPRD0093AWFJ	J	AB	Spring,Cassette [Tape 2]
SW714	92LSWICHT1663T	J	AC	Switch,Key Type [Dimmer]	201-19	JKNBZ0783AWSA	J	AF	Button,X-Bass/Equalizer
SW715	92LSWICHT1663T	J	AC	Switch,Key Type [X-Bass/Demo]	201-20	PSHEP0063AWZZ	J	AB	Filter,Remote Sensor
SW716	92LSWICHT1663T	J	AC	Switch,Key Type [Equalizer]	201-21	LHLDZ1328AWZZ	J	AC	Holder,Cassette Lock
SW717	92LSWICHT1663T	J	AC	Switch,Key Type [Volume Up]	201-22	MSPRC0029AWFJ	J	AB	Spring,Cassette Lock
SW718	92LSWICHT1663T	J	AC	Switch,Key Type [Volume Down]	201-23	MLOK0006AWZZ	J	AB	Lock Lever Cassette [Tape 1]
SW719	92LSWICHT1663T	J	AC	Switch,Key Type [Reverse Mode]	201-24	MLOK0007AWZZ	J	AB	Lock Lever Cassette [Tape 2]
SW720	92LSWICHT1663T	J	AC	Switch,Key Type [CD]	201-25	JKNBZ0805AWSA	J	AE	Button,Volume
SW721	92LSWICHT1663T	J	AC	Switch,Key Type [Tape]	201-26	92LBADGE1671A	J	AC	Badge,SHARP
SW722	92LSWICHT1663T	J	AC	Switch,Key Type [Tuning Down]	202	92LCAB3561BASY	J	AN	Side Panel Ass'y,Left [For CD-BK250W/CD-BK270W]
SW723	92LSWICHT1663T	J	AC	Switch,Key Type [Memory/Set]	202	92LCAB3565BASY	J	AN	Side Panel Ass'y Left [For CD-BK2600W]
SW724	92LSWICHT1663T	J	AC	Switch,Key Type [Rewind]	202- 1	—	—		Side Panel,Left (Not Replacement Item)
SW725	92LSWICHT1663T	J	AC	Switch,Key Type [Fast forward]	202- 2	PCUSG0022AWZZ	J	AB	Cushion,Leg
SW726	92LSWICHT1663T	J	AC	Switch,Key Type [Play]	203	92LCAB3561CASY	J	AN	Side Panel Ass'y,Right [For CD-BK250W/CD-BK270W]
SW727	92LSWICHT1663T	J	AC	Switch,Key Type [Stop]	203	92LCAB3565CASY	J	AN	Side Panel Ass'y Right [For CD-BK2600W]
SW728	92LSWICHT1663T	J	AC	Switch,Key Type [Reverse Play]	203- 1	—	—		Side Panel,Right (Not Replacement Item)
SW729	92LSWICHT1663T	J	AC	Switch,Key Type [Rec/Pause]	203- 2	PCUSG0022AWZZ	J	AB	Cushion,Leg
SW730	92LSWICHT1663T	J	AC	Switch,Key Type [Tuning Up]	204	GCAB-1194AWSA	J	AP	Cabinet,Top [For CD-BK250W/CD-BK270W]
SW731	92LSWICHT1663T	J	AC	Switch,Key Type [Video/Aux]	204	GCAB-1194AWSB	J	AP	Cabinet,Top [For CD-BK2600W]
SW732	92LSWICHT1663T	J	AC	Switch,Key Type [Tuner (Band)]	205	JKNBK0012AWSG	J	AK	Knob,Karaoke
△ SW801	QSOCE0009AWZZ	J	AH	Switch,Slide Type [Voltage Selector]	206	GCOVA1348AWSA	J	AH	Cover,CD Tray
CD MECHANISM PARTS					207	GITAR0736AWSA	J		Rear Panel [For CD-BK250W]
301	NGERH0011AWZZ	J	AC	Gear,Middle	207	GITAR0737AWSA	J		Rear Panel [For CD-BK2600W]
302	NGERH0012AWZZ	J	AC	Gear,Drive	207	GITAR0784AWSA	J		Rear Panel [For CD-BK270W]
303	MLEVP0080AWZZ	J	AC	Rail,Guide	211	LANGK0252AWFW	J	AE	Bracket,Fan Support
304	NSFTM0020AWFW	J	AD	Shaft,Guide	212	LBSHC0002AWZZ	J	AD	Bushing,AC Power Supply Cord
305	92LM-CUSN1524A	J	AC	Cushion	213	LCHSM0122AWFW	J	AN	Chassis,Main
△ 306	92LHPC1LXASY	J	BD	Pickup Unit Ass'y	214	LHLDZ1332AWZZ	J	AD	Holder,FL Display
306- 1	—	—		Pickup Unit (Not Replacement Item)	215	TSPC-0887AWZZ	J		Label,Specifications [CD-BK250W for Taiwan]
306- 2	NGERR0043AFZZ	J	AC	Gear,Rack	215	TSPC-0888AWZZ	J		Label,Specifications [CD-BK250W for Thailand]
306- 3	MSPRC0961AFZZ	J	AA	Spring,Rack	215	TSPC-0889AWZZ	J		Label,Specifications [CD-BK250W Except for Taiwan/Thailand]
701	XBSSD26P06000	J	AA	Screw,ø2.6×6mm	215	TSPC-0893AWZZ	J		Label,Specifications [CD-BK2600W for Taiwan]
702	XHBSD20P05000	J	AA	Screw,ø2×5mm	215	TSPC-0894AWZZ	J		Label,Specifications [CD-BK2600W for Thailand]
703	XBBSD20P03000	J	AA	Screw,ø2×3mm	215	TSPC-0895AWZZ	J		Label,Specifications [CD-BK2600W Except for Taiwan/Thailand]
704	LX-WZ1070AFZZ	J	AA	Washer,ø1.5×3.8×0.25mm	215	TSPC-0943AWZZ	J		Label,Specifications [CD-BK270W for Taiwan]
M1	92LMTR2790CASY	J	BB	Motor with Chassis [Spindle]	215	TSPC-0944AWZZ	J		Label,Specifications [CD-BK270W for Thailand]
M2	92LMTR1854BASY	J	AP	Motor with Gear [Sled]	215	TSPC-0945AWZZ	J		Label,Specifications [CD-BK270W Except for Taiwan/Thailand]
SW4	QSW-F9001AW01	J	AD	Switch,Leaf Type [Pickup In]	218	NFANP0001AWZZ	J	AD	Rotary Fan
CABINET PARTS					219	PCUSG0022AWZZ	J	AB	Cushion,Leg
201	92LCAB3563AASY	J		Front Panel Ass'y [For CD-BK250W]	220	PRDAR0188AWFW	J	AR	Heat Sink,Main
201	92LCAB3567AASY	J		Front Panel Ass'y [For CD-BK2600W]	△ 222	QACCA0003AW00	J	AL	AC Power Supply Cord
201	92LCAB3747AASY	J		Front Panel Ass'y [For CD-BK270W]					
201- 1	—	—		Front Panel (Not Replacement Item)					
201- 2	GDORF0099AWSA	J	AE	Holder,Cassette [Tape 1]					
201- 3	GDORF0100AWSA	J	AE	Holder,Cassette [Tape 2]					
201- 4	GCOVA1349AWSA	J	AG	Cover,Cassette [Tape 1] [For CD-BK250W/CD-BK270W]					
201- 4	GCOVA1349AWSB	J	AH	Cover,Cassette [Tape 1] [For CD-BK2600W]					
201- 5	GCOVA1388AWSA	J		Cover,Cassette [Tape 2] [For CD-BK250W/CD-BK270W]					
201- 5	GCOVA1388AWSB	J		Cover,Cassette [Tape 2] [For CD-BK2600W]					

CD-BK250W/CD-BK2600W/CD-BK270W

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
△ 222	QACCE0010AW00	J	AK	AC Power Supply Cord
△ 222	QACCJ0007AW00	J	AK	AC Power Supply Cord
△ 222	QACCL0005AW00	J	AN	AC Power Supply Cord
223	QCNWN1844AWZZ	J	AC	Lug Wire
△ 224	QFSDH0001AWZZ	J	AB	Holder,Fuse
225	92LBE231616	J	AD	Belt
226	92LCSPR1431C	J	AA	Spring,Ring
227	92LEVA0330702	J	AD	Velvet Carpet,Chassis
228	92LMAG0104302	J	AE	Magnet
229	92LMT0304302	J	AB	Plate,Metal
230	92LNBAND1318A	J	AA	Nylon Band,80mm
231	92LNM0305401	J	AB	Velvet Carpet
232	92LPT0303002	J	AB	Roller
233	92LPT0304303	J	AB	Lever,Stop
234	92LPT0304304	J	AB	Stopper
235	92LPT0304305	J	AE	Lever,Lock
236	92LPT0304306	J	AG	Stabilizer
237	92LPT0304307	J	AC	Support,Cam
238	92LPT0304308	J	AB	Lock Gear Pin
239	92LPT0304309	J	AB	Cap,Pulley Stopper
240	92LPT0305413	J	AG	Cam Gear Lower
241	92LPT0309506	J	AD	Gear,Turntable Drive
242	92LPT0309507	J	AD	Gear,Open/Close Drive
243	92LPT0309508	J	AD	Gear,Planet
244	92LPT0309509	J	AD	Gear,Drive
245	92LPT0309510	J	AE	Gear,Pulley
246	92LPT0309511	J	AD	Gear,Middle
247	92LPT0311101	J	AB	Lever,Clamp
248	92LPT0311102	J	AC	Lever,Disc
249	92LPT0312005	J	AL	Gear,Cam
250	92LPT0320201	J	AE	Support,Stabilizer
251	92LPT0330301	J	AU	Chassis>Loading
252	92LPT0330803	J	AK	CD,Chassis
253	92LPT0331003	J	AT	Chassis,Slide
254	92LPT0331105	J	AM	Turntable
255	92LSP0304303	J	AB	Spring,Stopper
256	92LSP0304305	J	AB	Spring,Lock
257	92LSP0304306	J	AB	Spring,Lock Gear
258	KMECB0018AWZZ	J	BE	Tape Mechanism Ass'y
258- 1	92PF513-853	J	BL	Head Plate Block [Tape 2]
258- 2	92PF525-336	J		Motor with Pulley [Tape]
258- 3	92PF567-677	J		Tape Mechanism PWB Ass'y
258- 4	92PFF19N-21	J		Belt>Main [Tape 2]
258- 5	92PF514-133	J	AL	Pinch Roller
258- 6	92PF19S-31	J		Belt,FF/REW [Tape 2]
258- 7	92PFF19N-11	J		Belt>Main [Tape 1]
258- 8	92PF522-061	J		Clutch Ass'y Block [Tape 1]
258- 9	92PFF19S-52	J		Belt,FF/REW [Tape 1]
258-10	92PF513-861	J		Head Plate Block [Tape 1]
258-11	92PF522-063	J		Clutch Ass'y Block [Tape 2]
259	PCOVQ3002AWZZ	J	AL	Fan Cover
260	92LCAUT1706B	J	AA	Label,Laser
261	92LCAUT1706A1	J	AC	Label,Class 3
262	LANGK0287AWFW	J	AC	Bracket, Transformer Support
601	LX-BZ2222AXZZ	J	AB	Screw,Special
602	XJBSD30P12000	J	AA	Screw,ø3×12mm
603	LX-JZ0010AFFD	J	AA	Screw,ø3×10mm
604	XEBSD26P08000	J	AA	Screw,ø2.6×8mm
605	XBBSD20P04000	J	AA	Screw,ø2×4mm
606	XEBSD30P10000	J	AA	Screw,ø3×10mm
607	XEBSD30P12000	J	AA	Screw,ø3×12mm
608	XESSD30P10000	J	AA	Screw,ø3×10mm
610	XJBSD30P10000	J	AA	Screw,ø3×10mm
611	XJBSD30P14000	J	AA	Screw,ø3×14mm
613	XJSSD30P10000	J	AA	Screw,ø3×10mm
614	92LSC0308MBZI	J	AB	Screw,ø3×8mm
615	92LSC0308RBZI	J	AB	Screw,ø3×8mm
616	XHBSD40P08000	J	AA	Screw,ø4×8mm
ACCESSORIES/PACKING PARTS				
△	QANTL0008AWZZ	J	AH	AM Loop Antenna
△	QPLGA0003AWZZ	J	AF	Adaptor,AC Plug
	QPLGA0004AWZZ	J	AF	Adaptor,AC Plug
	SPAKA0300AWZZ	J	AM	Packing Add.
	SPAKC1145AWZZ	J		Packing Case [CD-BK250W Except for Australia/New Zealand]
	SPAKC1237AWZZ	J		Packing Case [CD-BK250W for Australia/New Zealand]

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
	SPAKC1238AWZZ	J		Packing Case [CD-BK250W for Australia/New Zealand]
	SPAKC1239AWZZ	J		Packing Case [CD-BK2600W Except for Australia/New Zealand]
	SPAKC1258AWZZ	J		Packing Case [CD-BK270W for Australia/New Zealand]
	SPAKC1259AWZZ	J		Packing Case [CD-BK270W Except for Australia/New Zealand]
	SPAKP0013AWZZ	J	AC	Polyethylene Bag,Unit
	SPAKZ0771AWZZ	J	AF	Center Pad
	SPAKZ0773AWZZ	J	AE	Top Pad
	SSAKA0007AWZZ	J	AB	Polyethylene Bag,Accessories
	TCAUA0061AWZZ	J		Caution Tag [For Taiwan Only]
	TGANE0011AW70	J		Warranty Card [CD-BK250W for Philippines]
	TGANE0011AW71	J		Warranty Card [CD-BK2600W for Philippines]
	TGANE0011AW76	J		Warranty Card [CD-BK270W for Philippines]
	TGANZ0028AW74	J		Warranty Card [CD-BK250W for Taiwan]
	TGANZ0028AW75	J		Warranty Card [CD-BK2600W for Taiwan]
	TGANZ0028AW82	J		Warranty Card [CD-BK270W for Taiwan]
	TINST0096AWZZ	J		Operation Manual [CD-BK250W/CD-BK2600W for Thailand]
	TINST0100AWZZ	J		Operation Manual [CD-BK270W for Thailand]
	TINSZ0691AWZZ	J		Operation Manual [CD-BK250W/CD-BK2600W Except for Thailand/Australia/ New Zealand]
	TINSZ0692AWZZ	J		Operation Manual [CD-BK250W/CD-BK2600W for Australia/New Zealand]
	TINSZ0714AWZZ	J		Operation Manual [CD-BK270W Except for Thailand/Australia/New Zealand]
	TINSZ0715AWZZ	J		Operation Manual [CD-BK270W for Australia/New Zealand]
	TLABB0001AWZZ	J	AB	Label,Japan
	TLABE0477AWZZ	J		Label,Bar Code [CD-BK250W]
	TLABE0478AWZZ	J		Label,Bar Code [CD-BK2600W]
	TLABE0518AWZZ	J		Label,Bar Code [CD-BK250W]
	TLABE0519AWZZ	J		Label,Bar Code [CD-BK2600W]
	TLABE0575AWZZ	J		Label,Bar Code [CD-BK270W]
	TLABE0579AWZZ	J		Label,Bar Code [CD-BK270W]
	TLABJ0003AWZZ	J	AB	Label,Japan,Packing Case
	TLABR1226AWZZ	J		Label,Bar Code [CD-BK250W]
	TLABR1227AWZZ	J		Label,Bar Code [CD-BK2600W]
	TLABZ0838AWZZ	J		Label,FDA
	TLABZ0937AWZZ	J		Label,Carton [CD-BK250W for Taiwan]
	TLABZ0938AWZZ	J		Label,Feature [Tape 1] [Except for Australia/New Zealand]
	TLABZ0939AWZZ	J		Label,Feature [Tape 2]
	TLABZ0940AWZZ	J		Label,Carton [CD-BK2600W for Taiwan]
	TLABZ0951AWZZ	J		Label,Feature [Tape 1] [For Australia/New Zealand]
	TLABZ0963AWZZ	J		Label,Carton [CD-BK270W for Thailand]
	92LBAG760C	J	AA	Bag,Plug Adaptor
	92LFANT1746A	J	AD	FM Antenna
	92LGCARD1266E1	J	AC	Warranty Card
	92LLABL1507B	J	AA	Label,Packing Case,MADE IN MALAYSIA
	92LPANEL713A	J	AB	Panel,MADE IN MALAYSIA
	RRMCG0267AWSA	J		Remote Control
	GFTAB1022AWSB	J		Battery Lid,Remote Control

CD-BK250W/CD-BK2600W/CD-BK270W

NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
P.W.B. ASSEMBLY (Not Replacement Item)			
△ PWB-A1~3	92LPWB3563MANS J	—	Main/Power/Transformer (Combined Ass'y) [For CD-BK250W/CD-BK2600W]
△ PWB-A1~3	92LPWB3747MANS J	—	Main/Power/Transformer (Combined Ass'y) [For CD-BK270W]
PWB-B1,2	92LPWB3563DPLS J	—	Display/Headphones (Combined Ass'y) [For CD-BK250W/CD-BK2600W]
PWB-C	92LPWB3563CDUS J	—	CD Servo
PWB-D	92PF567-649 J	—	Tape Mechanism
PWB-E	92LPC99C017 J	AE	CD Loading Motor (PWB Only)
PWB-F	QPWBF0027AWZZ J	AD	CD Motor (PWB Only)
PWB-G1	92LPWB3553MICS J	—	Mic [For CD-BK250W/CD-BK2600W]
PWB-G1,2	92LPWB3747MICS J	—	Mic/Surround Speaker (Combined Ass'y) [For CD-BK270W]

OTHER SERVICE PART

UDSKA0004AFZZ J	AZ	CD Pickup Lens Cleaner
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CP-BK250/CP-BK2600/CP-BK270

SPEAKER BOX PARTS

901	GBOXS6002AWSB J	BB	Speaker Box Ass'y [For CP-BK250/CP-BK270]
901	GBOXS6003AWSB J	BB	Speaker Box Ass'y [For CP-BK2600]
901-1	QCNWN1833AWZZ J		Speaker Cord Ass'y (With Capacitor C1,2)
902	CWAKP1045AWSF J		Net Frame Ass'y [For CP-BK250/CP-BK270]
902	CWAKP1045AWSE J		Net Frame Ass'y [For CP-BK2600]
903	HPNLS1020AWSA J	AW	Front Panel [For CP-BK250/CP-BK270]
903	HPNLS1020AWSB J	AW	Front Panel [For CP-BK2600]
904	LHLDZ8001AWSA J	AD	Catching Holder [For CP-BK250/CP-BK270]
904	LHLDZ8001AWSB J	AD	Catching Holder [For CP-BK2600]
905	PCUSS0048AWZZ J		Port Cushion
906	PCUSG0022AWZZ J	AB	Foot Cushion
907	TSPC-0836AWZZ J		Label,Specifications [For CP-BK250]
907	TSPC-0840AWZZ J		Label,Specifications [For CP-BK2600]
907	TSPC-0906AWZZ J		Label,Specifications [For CP-BK270]
908	XJBSD40P12000 J	AA	Screw,ø4×12mm
909	XJBSD30P10000 J	AA	Screw,ø3×10mm
SP1,2	RSPA10007AW6W J	AX	Woofer [For CP-BK250/CP-BK2600]
SP1,2	RSPA10025AW8W J		Woofer [For CP-BK270]
SP3,4	RSPA00008AW6T J	AP	Tweeter [For CP-BK250/CP-BK2600]
SP3,4	RSPA00018AW8T J		Tweeter [For CP-BK270]

PACKING PARTS

SPAKA0301AWZZ J	AK	Packing Add.
SSAKH0051AWZZ J	AC	Polyethylene Bag,Speaker

GBOXS0070AWM1 (CD-BK270W Only)

SURROUND SPEAKER BOX PARTS

901	CWAKP1055AWM3 J		Net Frame Ass'y
902	GCAB-1208AWSA J		Bottom Cabinet
903	TLABM0128AWZZ J		Label,Parts Code
904	XJBSD30P140000 J		Screw,ø3×14mm
SP1,2	RSPA10034AWWP J		Speaker

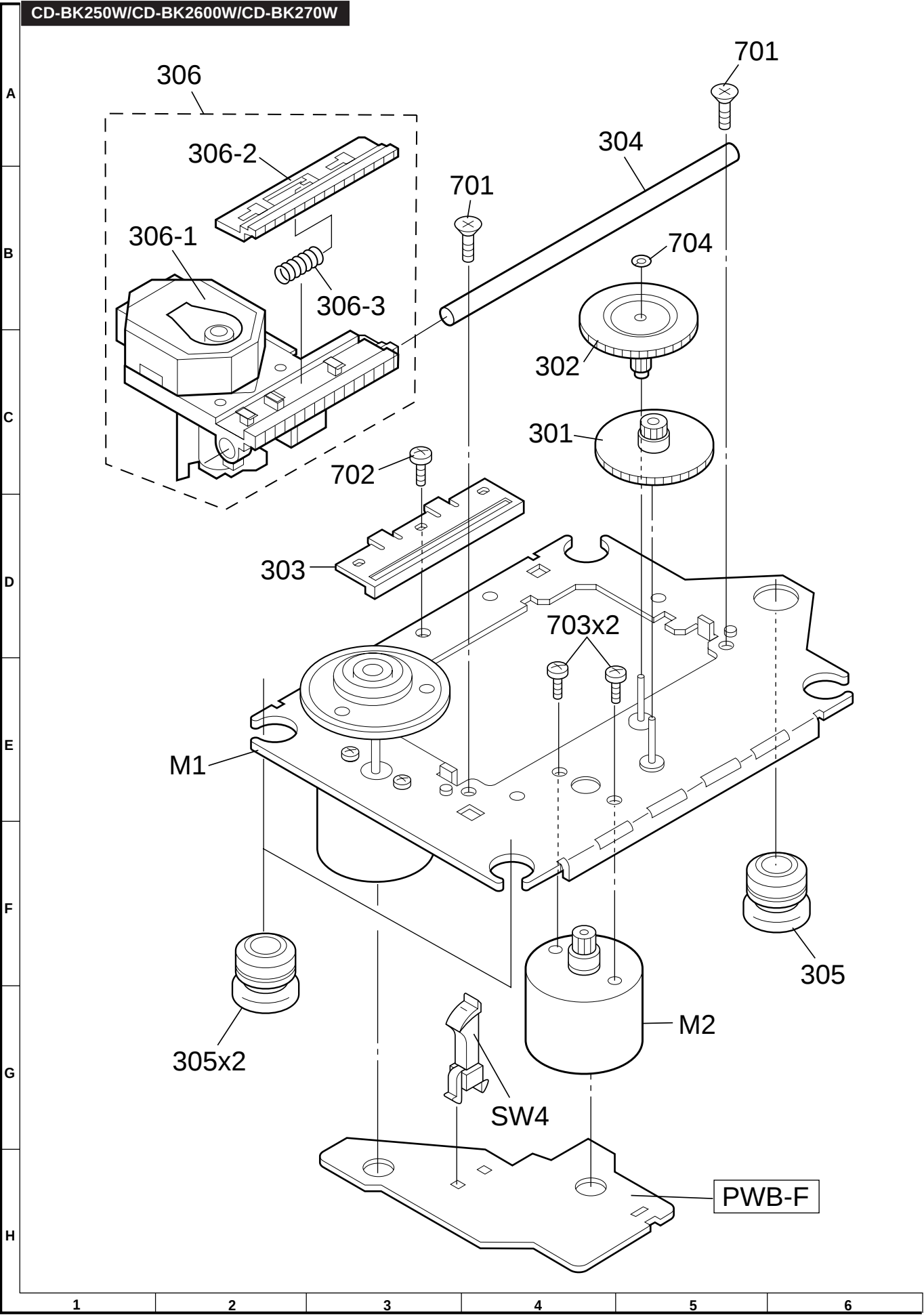


Figure 8 CD MECHANISM EXPLODED VIEW

CD-BK250W/CD-BK2600W/CD-BK270W

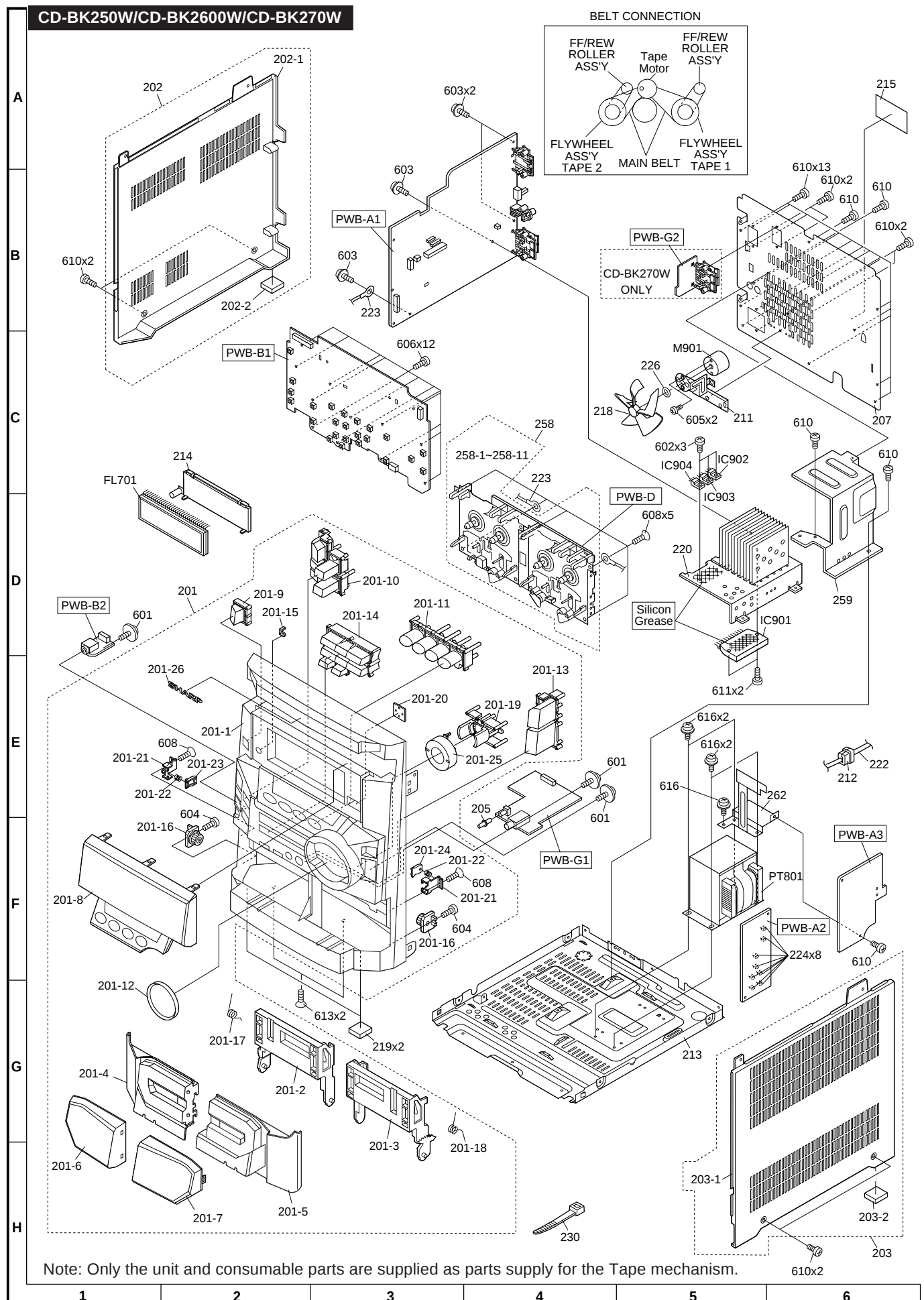


Figure 9 CABINET EXPLODED VIEW (1/2)

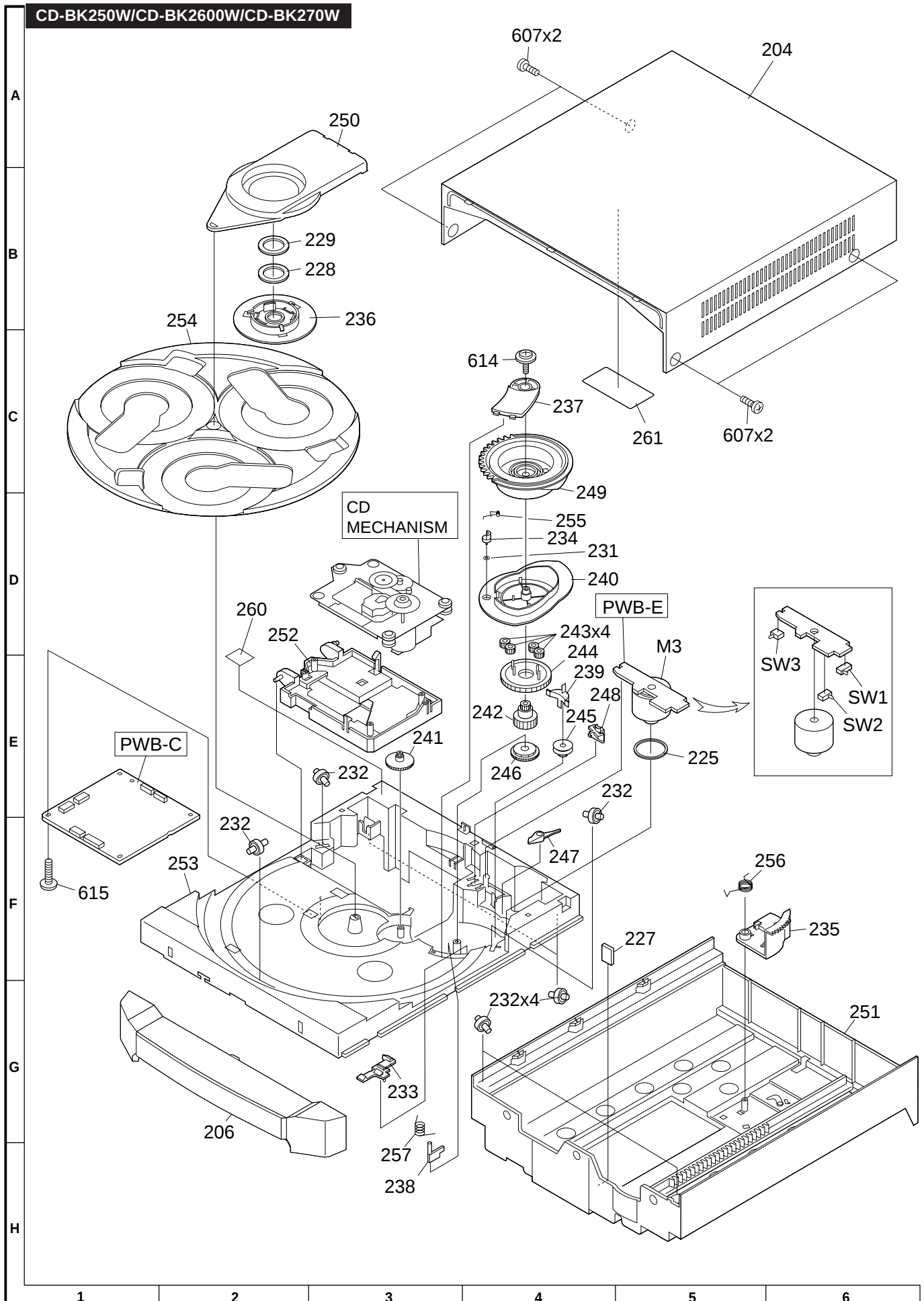


Figure 10 CABINET EXPLODED VIEW (2/2)

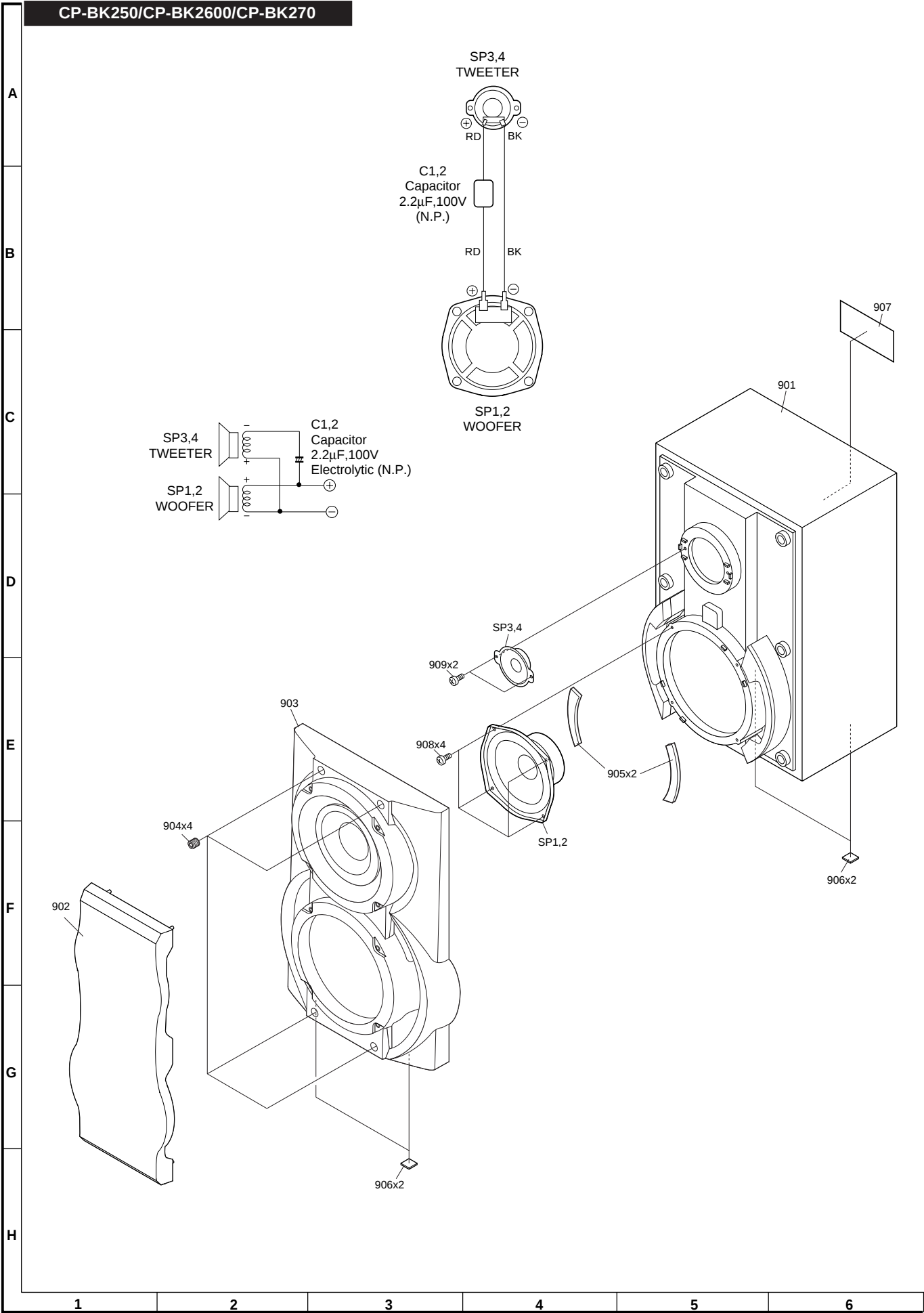


Figure 11 SPEAKER EXPLODED VIEW (1/2)

GBOXS0070AWM1 (CD-BK270W ONLY)

A
B
C
D
E
F
G
H

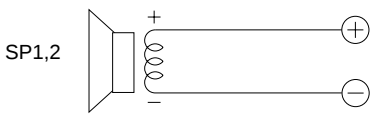
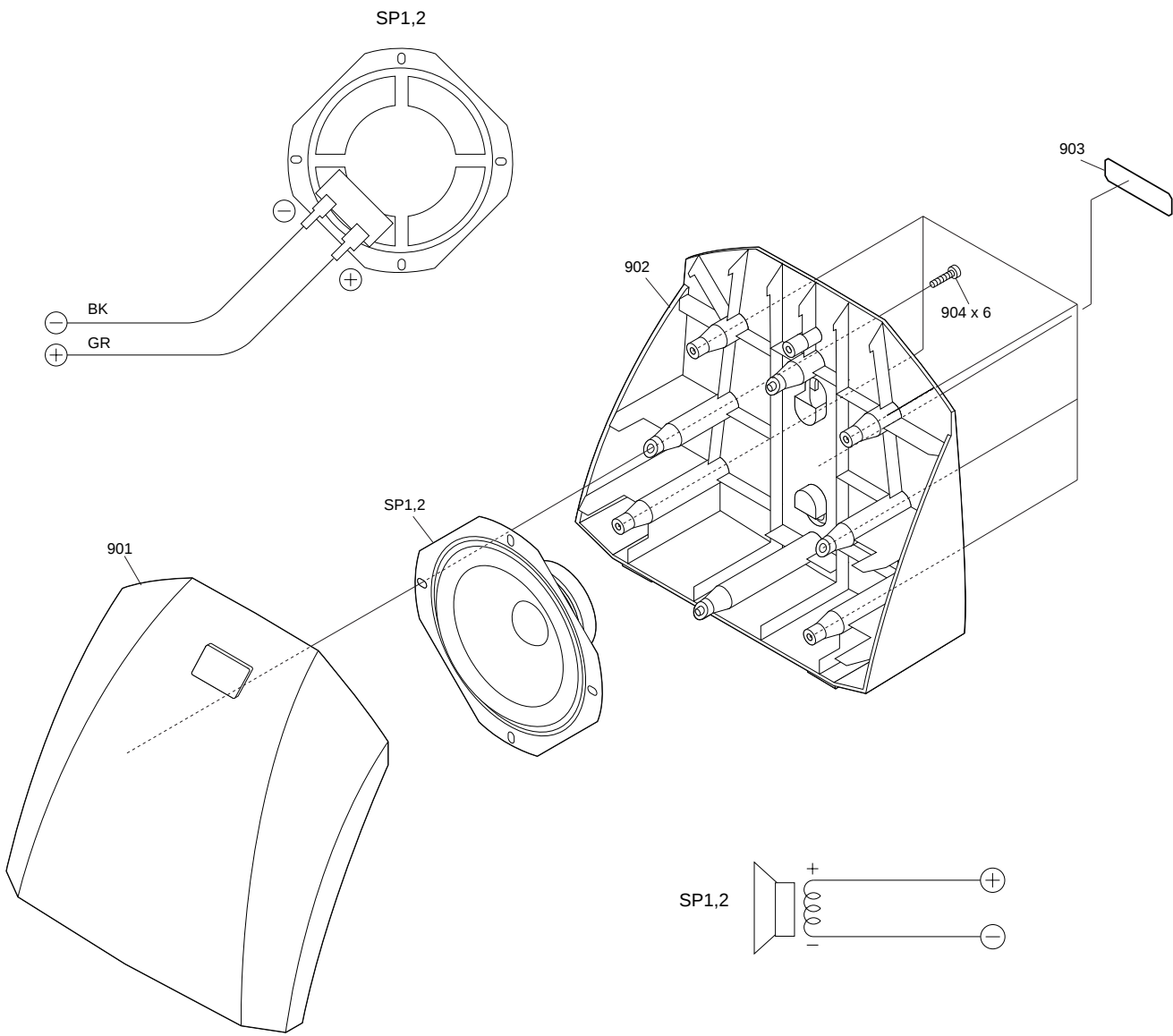


Figure 12 SPEAKER EXPLODED VIEW (2/2)

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