

SHARP SERVICE MANUAL

No. S1206CDXP200/

MINI COMPONENT SYSTEM

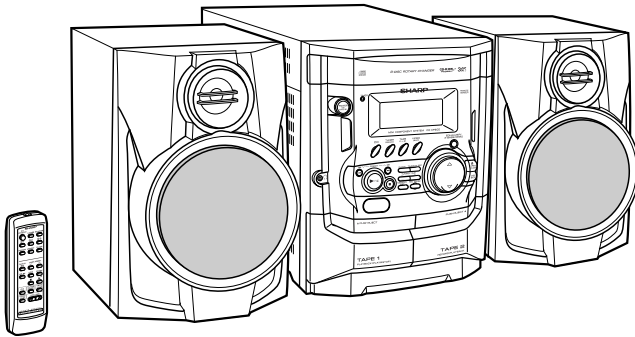
MODEL CD-XP200

CD-XP200 Mini Component System consisting of CD-XP200 (main unit) and CP-XP200 (speaker system).

MINI COMPONENT SYSTEM

MODEL CD-XP2200

CD-XP2200 Mini Component System consisting of CD-XP2200 (main unit) and CP-XP2200 (speaker system).



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

CONTENTS

	Page
IMPORTANT SERVICE NOTES (FOR U.S.A. ONLY)	2
SPECIFICATIONS	3
NAMES OF PARTS	4
OPERATION MANUAL	6
QUICK GUIDE (FOR U.S.A. ONLY)	8
DISASSEMBLY	10
REMOVING AND REINSTALLING THE MAIN PARTS	13
ADJUSTMENT	14
NOTES ON SCHEMATIC DIAGRAM	18
TYPES OF TRANSISTOR AND LED	18
BLOCK DIAGRAM	19
SCHEMATIC DIAGRAM / WIRING SIDE OF P.W.BOARD	22
VOLTAGE	39
WAVEFORMS OF CD CIRCUIT	40
TROUBLESHOOTING	41
FUNCTION TABLE OF IC	45
FL DISPLAY	51
REPLACEMENT PARTS LIST/EXPLODED VIEW	
PACKING OF THE SET (FOR U.S.A. ONLY)	

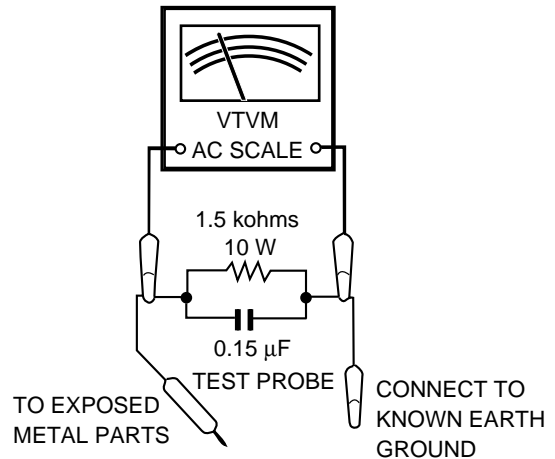
IMPORTANT SERVICE NOTES (FOR U.S.A. ONLY)

BEFORE RETURNING THE AUDIO PRODUCT

(Fire & Shock Hazard)

Before returning the audio product to the user, perform the following safety checks.

1. Inspect all lead dress to make certain that leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the audio product.
2. Inspect all protective devices such as insulating materials, cabinet, terminal board, adjustment and compartment covers or shields, mechanical insulators etc.
3. To be sure that no shock hazard exists, check for leakage current in the following manner.
 - * Plug the AC line cord directly into a 120 volt AC outlet.
 - * Using two clip leads, connect a 1.5 kohm, 10 watt resistor paralleled by a 0.15 μ F capacitor in series with all exposed metal cabinet parts and a known earth ground, such as conduit or electrical ground connected to earth ground.
 - * Use a VTVM or VOM with 1000 ohm per volt, or higher, sensitivity to measure the AC voltage drop across the resistor (See diagram).
 - * Connect the resistor connection to all exposed metal parts having a return path to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor.



All check must be repeated with the AC line cord plug connection reversed.

Any reading of 0.3 volt RMS (this corresponds to 0.2 milliamp. AC.) or more is excessive and indicates a potential shock hazard which must be corrected before returning the audio product to the owner.

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

SPECIFICATIONS

CD-XP200/CD-XP2200

■ General

Power source	AC 120 V, 60 Hz
Power consumption	128 W
Dimensions	Width: 10-5/8" (270 mm) Height: 13" (330 mm) Depth: 13-15/16" (355 mm)
Weight	14.5 lbs. (6.6 kg)

■ Amplifier

Output power	75 watts minimum RMS per channel into 6 ohms from 60 Hz to 20 kHz, 10% total harmonic distortion
Output terminals	Speakers: 6 ohms Headphones: 16 - 50 ohms (recommended: 32 ohms)
Input terminals	Video/Auxiliary (audio signal): 500 mV/47 kohms

■ 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: 87.5 - 108 MHz AM: 530 - 1,720 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-XP200/CP-XP2200

Type	2-way type speaker system 2" (5 cm) Tweeter 5-1/8" (13 cm) Woofer
Maximum input power	150 W
Rated input power	75 W
Impedance	6 ohms
Dimensions	Width: 8-11/16" (220 mm) Height: 13" (330 mm) Depth: 8-6/8" (222 mm)
Weight	6.6 lbs. (3.0 kg)/each

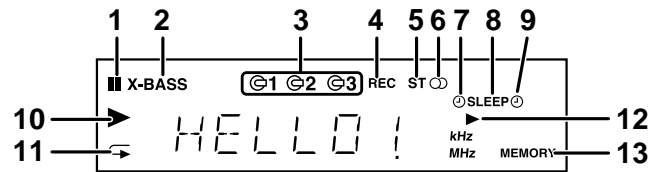
Specifications for this model are subject to change without prior notice.

NAMES OF PARTS

CD-XP200/CD-XP2200

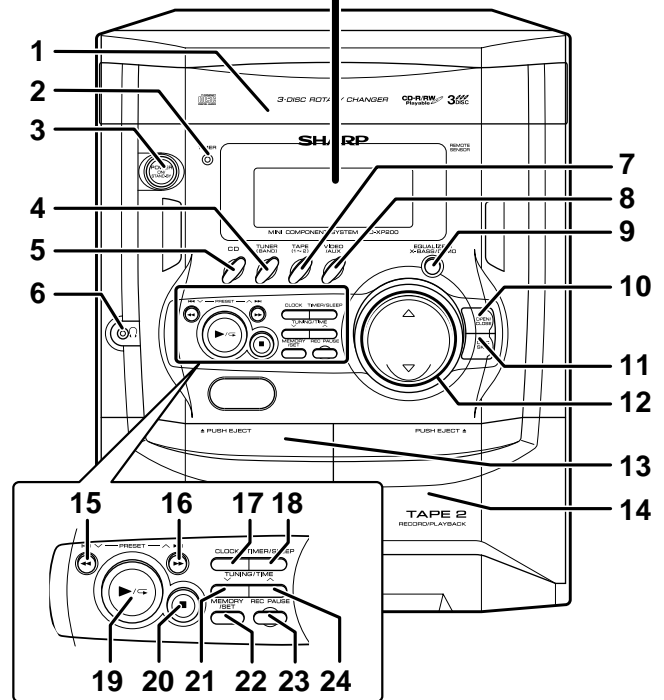
■ Display

1. CD Pause Indicator
2. Extra Bass Indicator
3. Disc Number Indicators
4. Tape 2 Record Indicator
5. FM Stereo Mode Indicator
6. FM Stereo Receiving Indicator
7. Timer Play Indicator
8. Sleep Indicator
9. Timer Recording Indicator
10. CD Play Indicator
11. CD Repeat Play Indicator
12. Tape Play Indicator
13. Memory Indicator



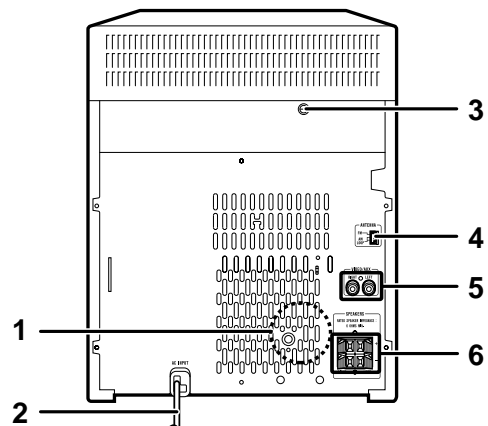
■ Front panel

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



■ Rear panel

1. Cooling Fan
2. AC Power Cord
3. Transport Screw
4. FM/AM Loop Antenna Jack
5. Video/Auxiliary (Audio Signal) Input Jacks
6. Speaker Terminals

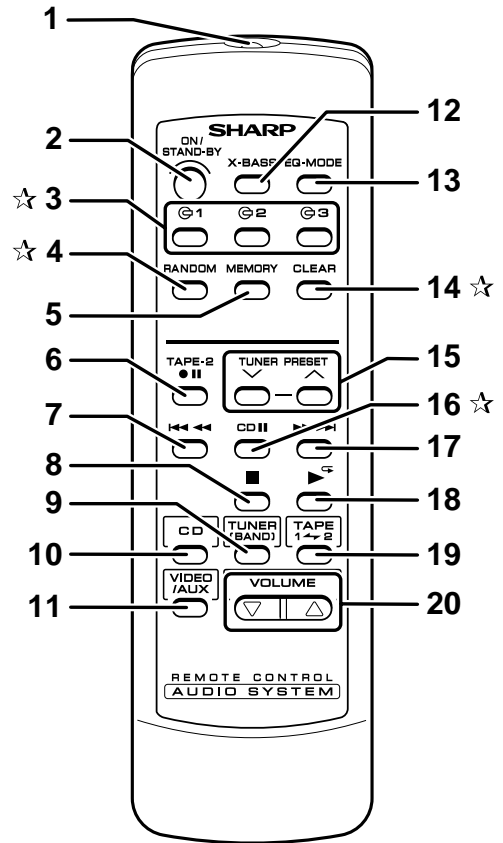


CD-XP200/CD-XP2200

Remote control

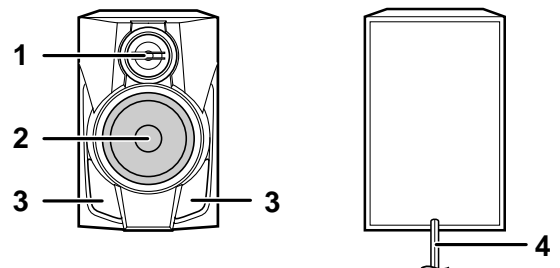
1. Remote Control Transmitter
2. Power On/Stand-by Button
3. **Disc Number Select Buttons**
4. **CD Random Button**
5. CD Memory Button
6. Tape 2 Record Pause Button
7. CD Track Down or Fast Reverse, Tape 2 Rewind Button
8. CD or Tape Stop Button
9. Tuner (Band) Button
10. CD Button
11. Video/Auxiliary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



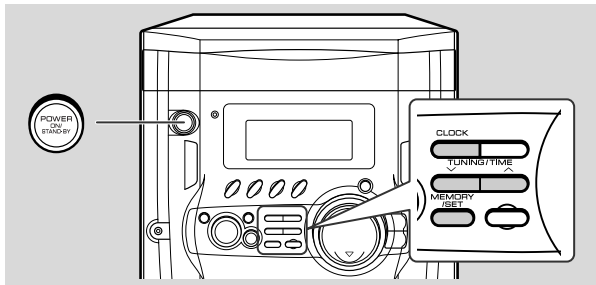
CP-XP200/CP-XP2200

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



OPERATION MANUAL

Setting the clock



In this example, the clock is set for the 12-hour (AM 12:00) 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 12-hour or 24-hour display and then press the **MEMORY/SET** button.

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

Note that this can only be set when the unit is first installed or it has been reset. [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 step 1. If the time display is flashing, step 3 (for selecting the 12-hour or 24-hour display) will be skipped.

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

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

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 authorized SHARP dealer or service center.

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?

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/AM loop antenna placed properly? Move the AC power cord away from the antenna if located near.

Cassette deck

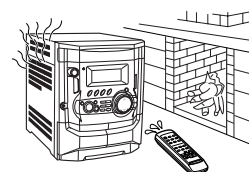
Symptom	Possible cause
● Cannot record.	● Is the erase-prevention tab removed?
● Cannot record tracks with proper sound quality.	● Is it a normal tape? (You cannot record on a metal or CrO ₂ tape.)
● Cannot erase completely.	
● Sound skipping.	● Is there any slack? ● Is the tape stretched?
● Cannot hear treble. ● Sound fluctuation.	● Are the capstans, pinch rollers, or heads dirty?
● 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.

Remote control

Symptom	Possible cause
● The remote control does not operate.	● Is the AC power cord 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?

Condensation

Sudden temperature changes, storage or operation in an extremely humid environment may cause condensation inside the cabinet (CD pickup, tape heads, etc.) or on the transmitter on the remote control. Condensation can cause the unit to malfunction. If this happens, leave the power on with no disc (or cassette) in the unit until normal playback is possible (about 1 hour). Wipe off any condensation on the transmitter with a soft cloth before operating the unit.



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 While pressing down the CLOCK button and the EQUALIZER/X-BASS/DEMO button, press the ON/STAND-BY button until "CLEAR AL" appears.



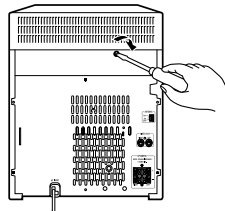
Caution:

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

■ Before transporting the unit

On the back of this unit is equipped with a transport screw in order to prevent damage during transportation.

- 1 Press the ON/STAND-BY button to turn the power on.
- 2 Press the CD button.
- 3 Press the Δ OPEN/CLOSE button to open the disc tray.
Remove all CDs inserted in the unit.
- 4 Press the Δ 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 cord from the AC outlet.
- 6 Insert the transport screw into the back of the unit and tighten it with a flat head screwdriver or a coin.



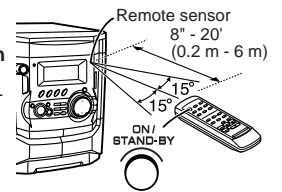
Remote control

■ Test of the remote control

Point the remote control directly at the remote sensor on the unit.

The remote control can be used within the range shown:

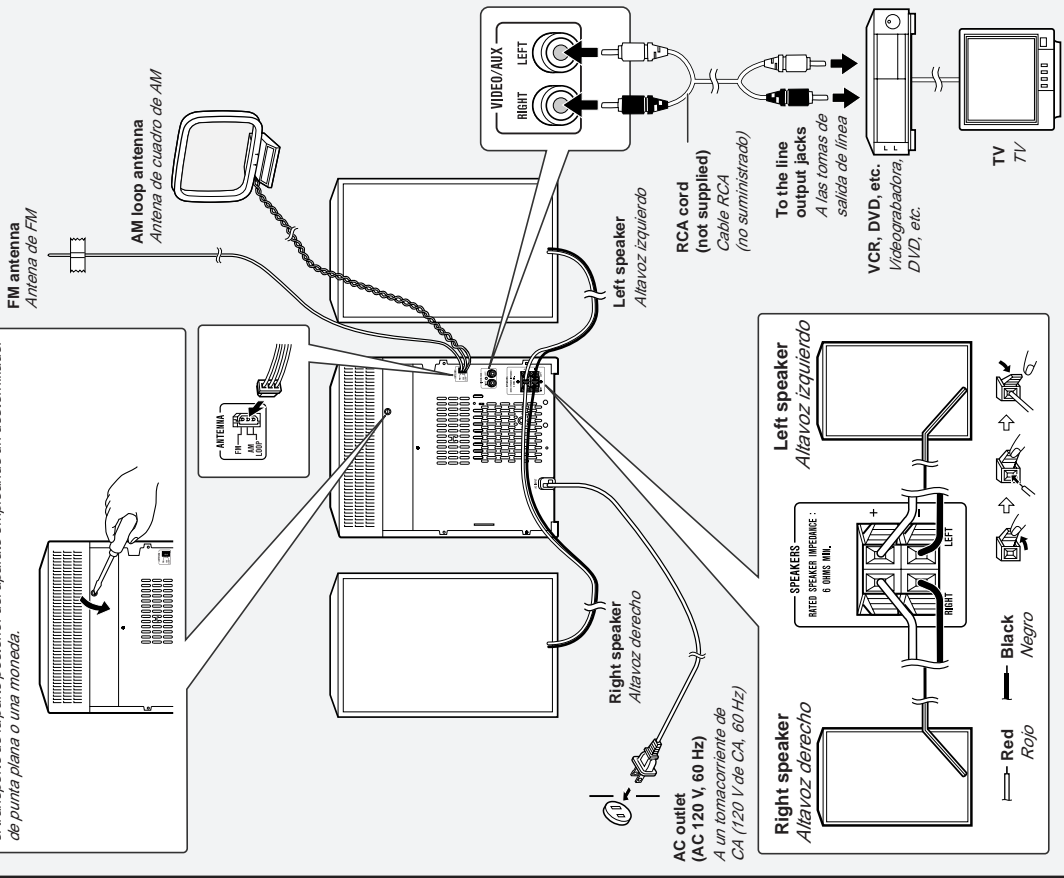
Press the ON/STAND-BY button. Does the power turn on? Now, you can enjoy the music.



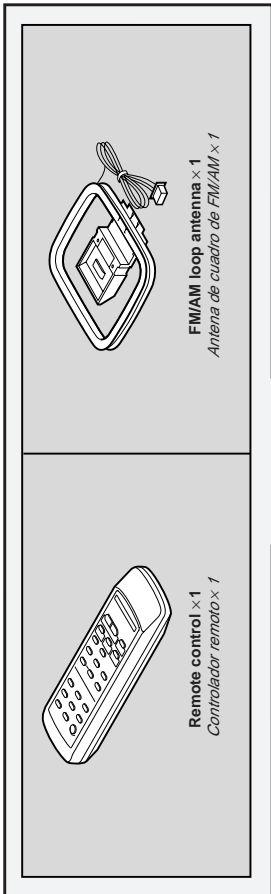
QUICK GUIDE (FOR U.S.A ONLY)

3 System connections
Conexiones del sistema

Before turning the power on, be sure to remove this transport screw on the back of the unit using a flat head screwdriver or a coin.
Antes de conectar la alimentación, asegúrese de extraer este tornillo para el transporte de la parte posterior del aparato empleando un destornillador de punta plana o una moneda.



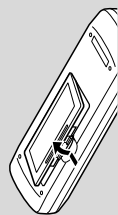
1 Accessories
Accesorios



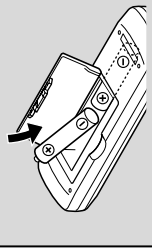
2 Remote control battery installation
Instalación de las pilas del controlador remoto

Use 2 "AAA" size batteries (UM-4, R03, HP-16 or similar).
Use dos pilas del tamaño "AAA" (UM-4, R03, HP-16 o equivalentes).

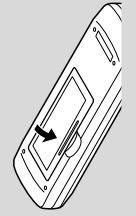
1 Open the battery cover.
Abra la cubierta de las pilas.



2 Insert the batteries as shown.
Inserte las pilas como se muestra.



3 Close the battery cover.
Cierre la cubierta de las pilas.



Batteries are not included.
Las pilas no están incluidas.

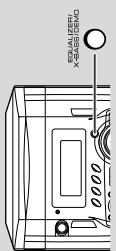
4 Turn on your system Conexión de la alimentación de su sistema

The first time the unit is plugged in, the unit will enter the demonstration mode. You will see words scroll.

Cuando se enchufe por primera vez el aparato, se establecerá en el modo de demostración. Verá un desplazamiento de palabras.

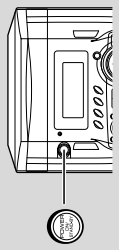
- 1 Press the EQUALIZER/X-BASS/DEMO button to cancel the demonstration mode.

Pulse el botón EQUALIZER/X-BASS/DEMO para cancelar el modo de demostración.



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

Pulse el botón ON/STAND-BY para conectar la alimentación.



Listening to a CD (CDs) Audición de un disco CD (discos CD)

- 1 Press the CD button.
Pulse el botón CD.
- 2 Press the OPEN/CLOSE button to open the disc tray.
Pulse el botón OPEN/CLOSE para abrir la bandeja de discos.
- 3 Place the CD(s) on the disc tray, label side up.
When loading a third disc, press the DISC SKIP button to turn the disc tray, then place the CD in the open position.
Coloque el disco compacto en la bandeja de discos, con el lado de la etiqueta hacia arriba.
Cuando ponga un tercer disco, pulse el botón DISC SKIP para girar la bandeja de discos, y coloque el disco compacto en la posición abierta.
- 4 Press the OPEN/CLOSE button to close the disc tray.
Pulse el botón OPEN/CLOSE para cerrar la bandeja de discos.
- 5 To select the CD you want to listen to first, press one of 1-3 buttons on the remote control.
Para seleccionar el disco CD que desee escuchar primero, pulse uno de los botones 1-3 del controlador remoto.
- 6 Press the ▶/⏪ button to start playback.
Pulse el botón ▶/⏪ para iniciar la reproducción.

Listening to the radio Audición de la radio

- 1 Press the TUNER (BAND) button repeatedly to select the desired frequency band (FM or AM).
Pulse repetidamente el botón TUNER (BAND) para seleccionar la banda de frecuencias deseada (FM o AM).
- 2 Press the TUNING/TIME (V or ^) button to tune in to the desired station. When the TUNING/TIME button is pressed for more than 0.5 seconds, scanning will start automatically and the tuner will stop at the first receivable broadcast station.
Pulse el botón TUNING/TIME (V o ^) para sintonizar la emisora deseada. Cuando se pulse el botón TUNING/TIME durante más de 0.5 segundos, la exploración se iniciará automáticamente y el sintonizador se parará en la primera emisora difusora que pueda recibirse.

To receive an FM stereo transmission: Press the TUNER (BAND) button to display the "ST" indicator.
● "CD" will appear when an FM broadcast is in stereo.
Para recibir una transmisión de FM en estéreo: Pulse el botón TUNER (BAND) para que se visualice el indicador "ST".
● "CD" aparecerá cuando una difusión de FM sea en estéreo.

FM stereo mode indicator
Indicador del modo de FM en estéreo

FM stereo receiving indicator
Indicador de recepción de FM en estéreo

Listening to a cassette tape (TAPE 1 or TAPE 2) Audición de una cinta de cassette (TAPE 1 o TAPE 2)

- 1 Open the cassette door by pushing the area marked "PUSH EJECT".
Abra la puerta del cassette pulsando la parte marcada "PUSH EJECT".
- 2 Load a cassette into the TAPE 1 or TAPE 2 cassette compartment with the side to be played facing toward you.
Cargue un cassette en el compartimiento de cassette de TAPE 1 o de TAPE 2 con la cara a reproducirse encaráada hacia usted.
- 3 Press the TAPE (1-2) button to select the cassette you want to listen to.
Pulse el botón TAPE (1-2) para seleccionar el cassette que desee escuchar.
- 4 Press the ▶/⏪ button to start playback.
Pulse el botón ▶/⏪ para iniciar la reproducción.

DISASSEMBLY

Caution on Disassembly

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

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

CD-XP200/CD-XP2200

STEP	REMOVAL	PROCEDURE	FIGURE
1	Top Cabinet	1. Screw (A1) x4	10-1
2	Side Panel (Left/Right)	1. Screw (B1) x8	10-1
3	CD Tray Cover/ CD Player Unit	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	10-2
4	Rear Panel with Fan Motor	1. Screw (D1) x9 2. Socket (D2) x1	10-2
5	Main PWB	1. Screw (E1) x4 2. Socket (E2) x3 3. Flat Cable (E3) x1 4. Flat Wire (E4) x1	10-2, 11-1 11-1
6	Front Panel	1. Screw (F1) x2 2. Hook (F2) x2 3. Socket (F3) x1	11-1
7	Display PWB	1. Screw (G1) x12 2. Flat Cable (G2) x1	11-2
8	Tape Mechanism	1. Open the cassette holder. 2. Screw (H1) x5	11-2
9	Headphones PWB	1. Screw (J1) x1	11-2
10	Turntable	1. Hook (K1) x2 2. Cover (K2) x1	11-3
11	Loading Tray	1. Turn fully the lock lever in the arrow direction. 2. Push the loading tray backward to engage the claw with the groove and remove it in the direction of the arrow. ... (L1) x6	10-3 11-4
12	CD Servo PWB (Note 2)	1. Screw (M1) x2 2. Hook (M2) x1 3. Socket (M3) x4	11-5
13	CD Mechanism	1. Hook (N1) x2 2. Hook (N2) x2	11-6

Note 1: How to open the changer manually. (Fig. 10-3)

1. In this state, turn fully the lock lever in the arrow direction through the hole on the loading tray bottom.
2. After that, push forward the loading tray.

Note 2:

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

Note 3:

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

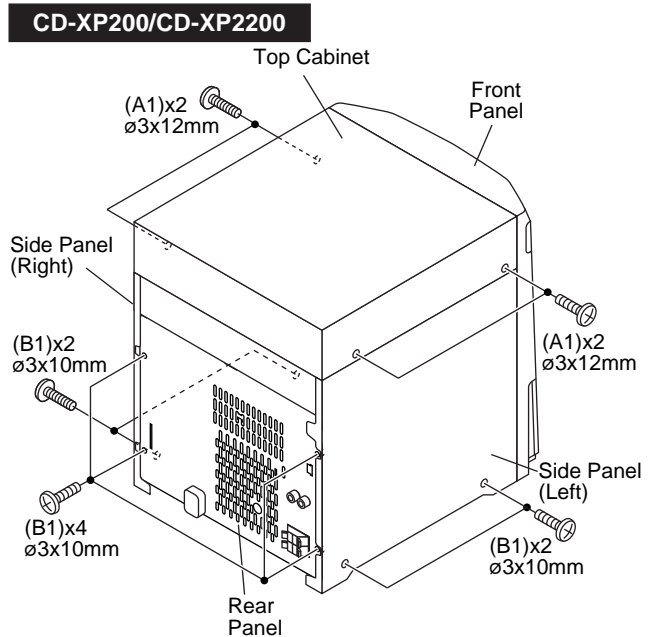


Figure 10-1

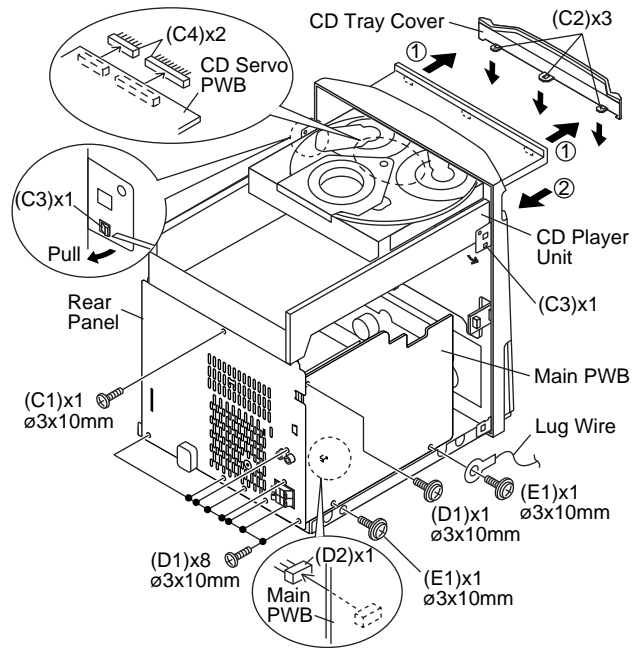


Figure 10-2

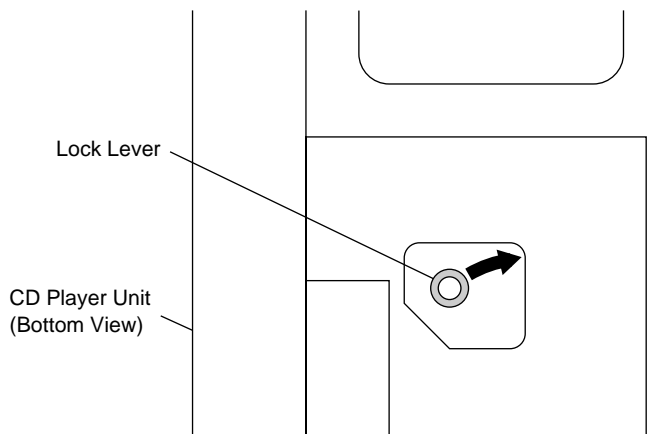


Figure 10-3

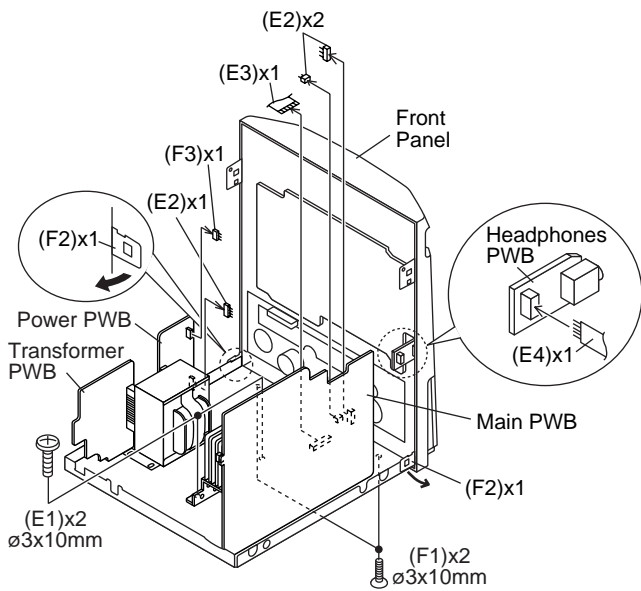


Figure 11-1

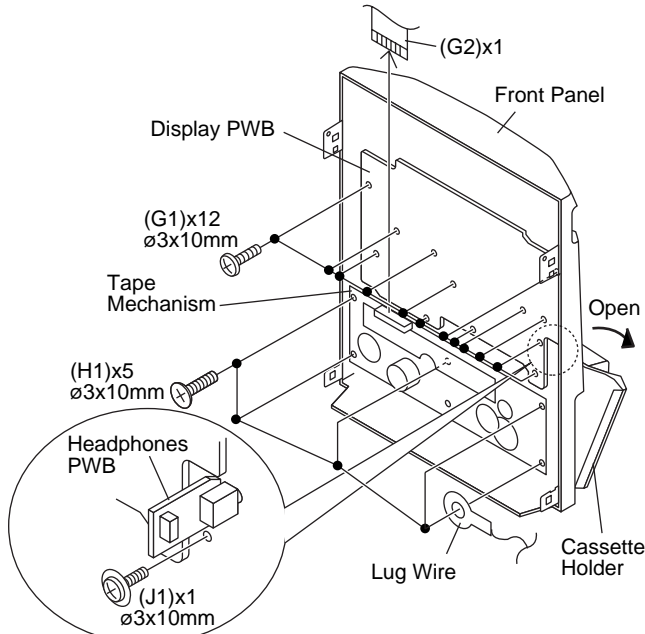


Figure 11-2

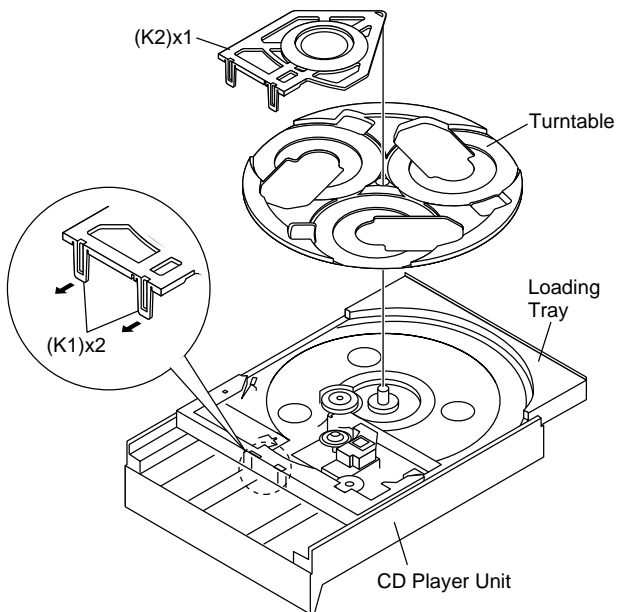


Figure 11-3

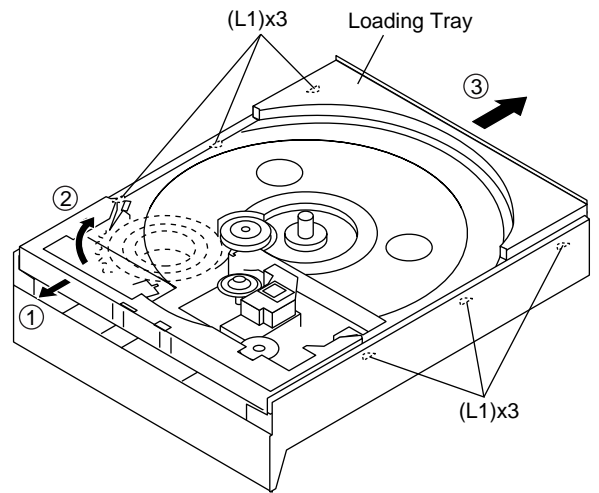


Figure 11-4

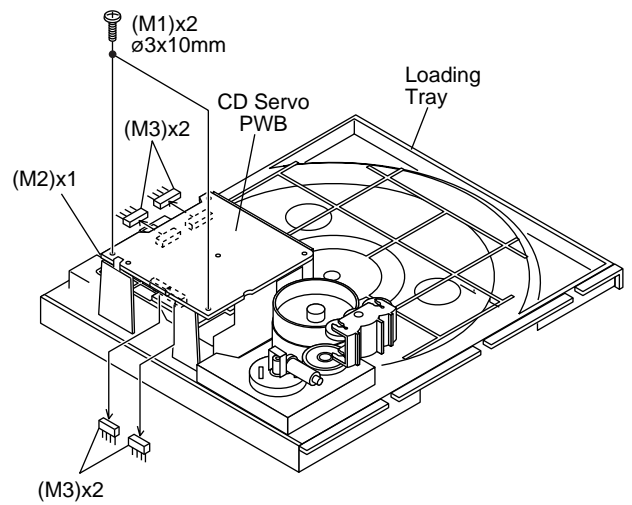


Figure 11-5

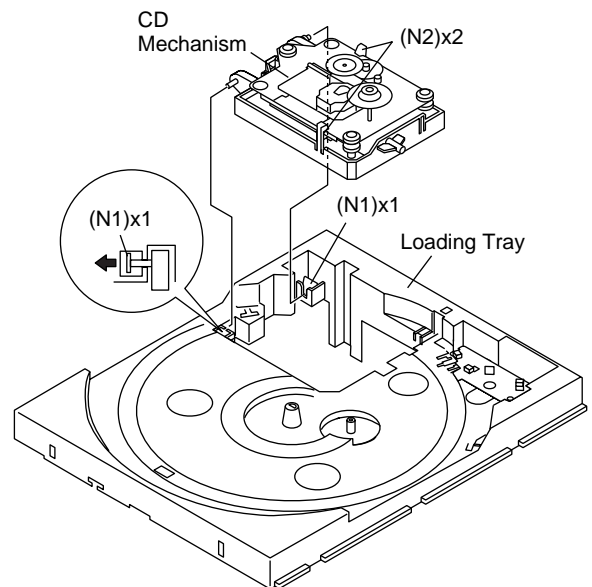


Figure 11-6

CD-XP200/CD-XP2200

CP-XP200/CP-XP2200			
STEP	REMOVAL	PROCEDURE	FIGURE
1	Woofers	1. Front Panel (A1) x1	12-1
		2. Screw (A2) x4	12-2
2	Tweeter	1. Screw (B1) x2	12-2

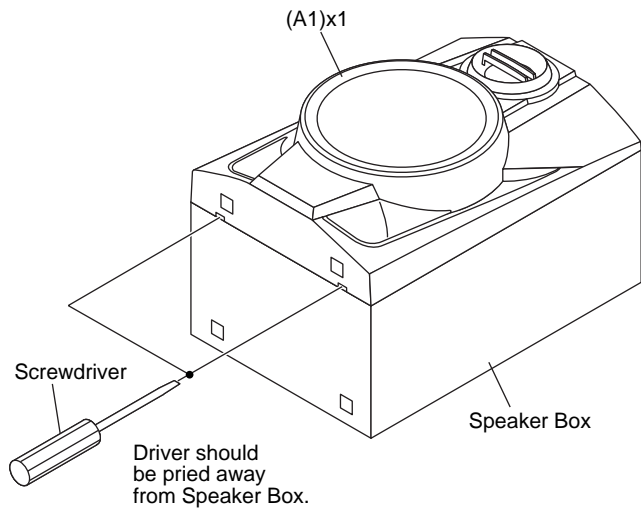


Figure 12-1

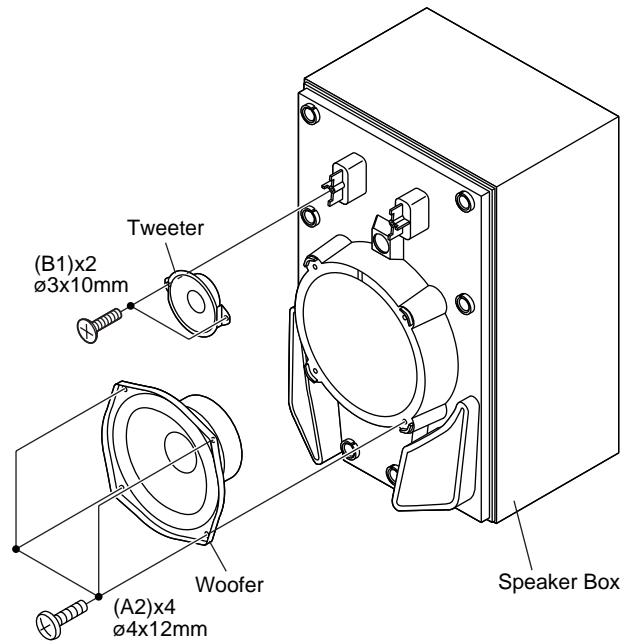


Figure 12-2

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. 13-1)

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. 13-2)

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

How to remove the pinch roller (TAPE 1/2) (See Fig. 13-3)

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. 13-4)

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. 13-4)

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. 13-5)

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

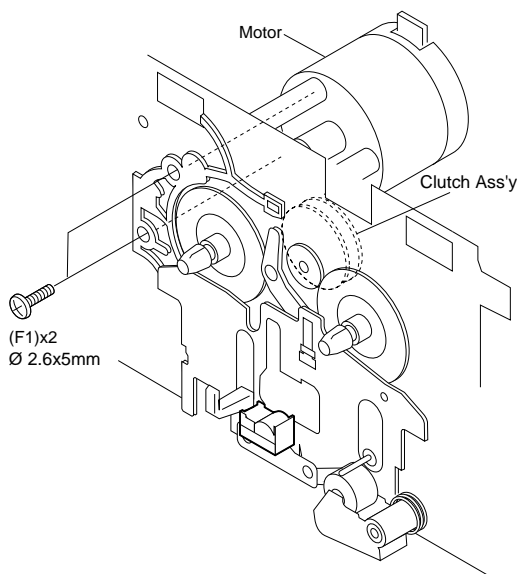


Figure 13-5

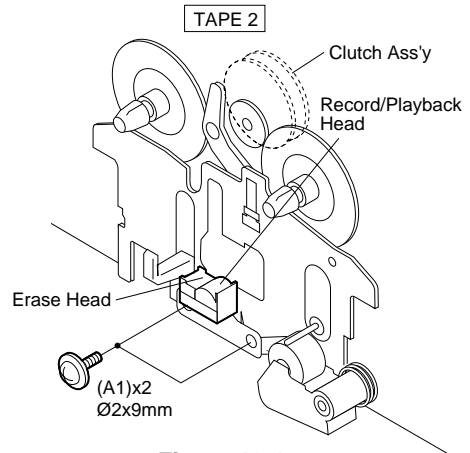


Figure 13-1

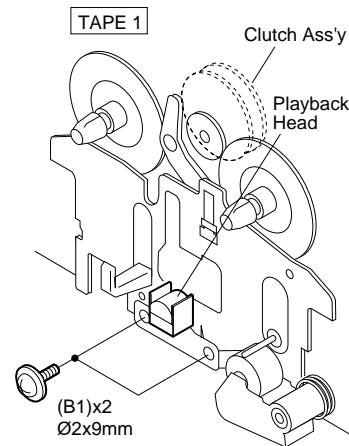


Figure 13-2

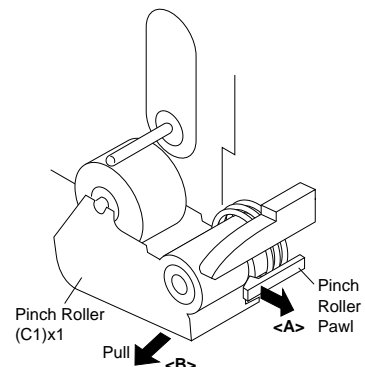


Figure 13-3

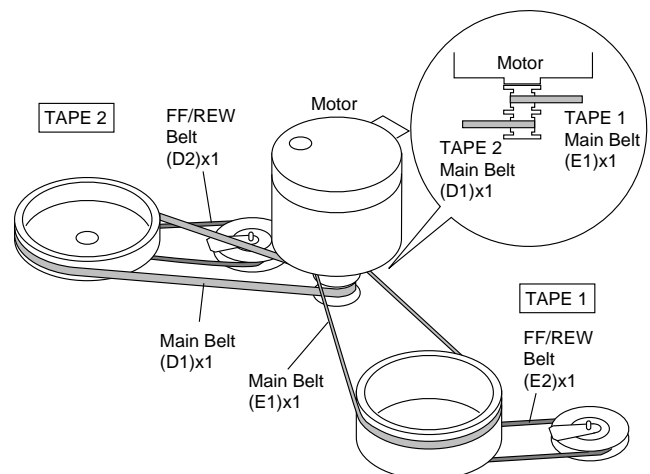


Figure 13-4

CD-XP200/CD-XP2200

CD MECHANISM SECTION

Perform steps 1, 2, 3, 10, 11,12 and 13 of the disassembly method to remove the CD mechanism.

How to remove the loading motor (See Fig. 14-1)

1. Bend the hooks (A1) x 6 pcs., to remove the loading motor.

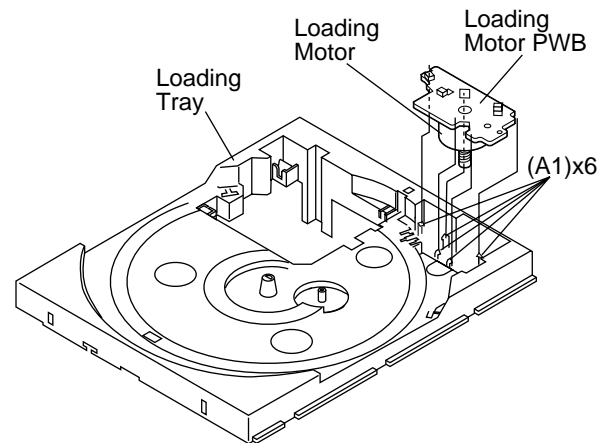


Figure 14-1

How to remove the pickup (See Fig. 14-2)

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.

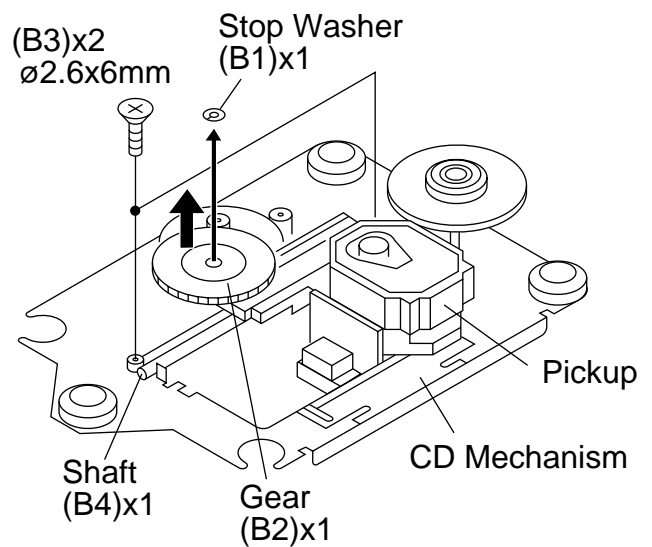


Figure 14-2

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

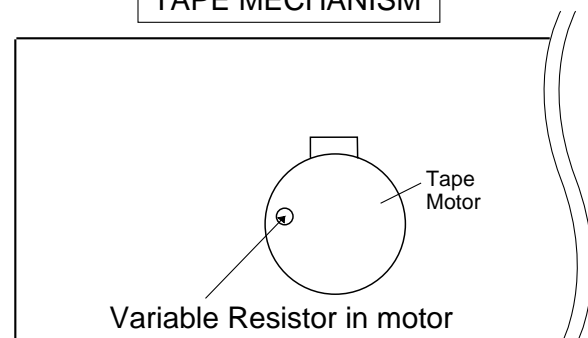


Figure 14-3

TUNER SECTION

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

• AM IF/RF

Signal generator: 400 Hz, 30%, AM modulated

Test Stage	Frequency	Frequency Display	Setting/ Adjusting Parts	Instrument Connection
AM IF	450 kHz	1,702 kHz	T351	*1
AM Band Coverage	—	530 kHz	(fL): T306 1.1 ± 0.1 V	*2
AM Tracking	990 kHz	990 kHz	(fL): T303	*1

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

• FM RF

Signal generator: 1 kHz, 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

• FM IF

Signal generator: 10.7 MHz, FM modulated

Test Stage	Frequency	Frequency Display	Setting/ Adjusting Point	Instrument Connection
IF	10.7 MHz	98 MHz	T302 (Turn the core of transformer T302 fully counter-clock wise)	*1

*1. Input: Antenna Output: TP301

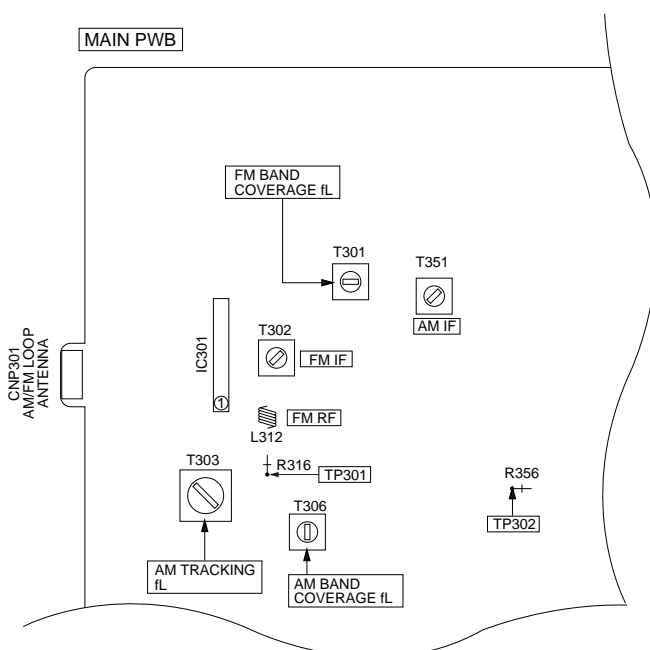


Figure 15-1 ADJUSTMENT POINTS

CD SECTION

• Adjustment

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

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

Items adjusted automatically

- 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.15-2 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	Explanation
01	When Pickup set inner position, inner switch cannot detect 'ON' level for 10 secs.
10*	When tray moves to Open/Close, Open/Close switch cannot detect 'ON' level for 7 secs. When disc table rotate to target position. Clamp switch cannot detect 'ON' level for 7 secs.
11*	When disc table set to Disc1 position for 1 st time, "CLAMP SW", "DISC NO SW" and "OPEN/CLOSE" cannot detect 'ON' level for 14 secs.
31	When it changes to CD function, DSP cannot read initial data.

* 'CHECKING'

If Error is detected, 'CHECKING' will be display instead of 'ER-CD**' display. 'ER-CD**' display will only be display when error had been detected for the 5 th times.

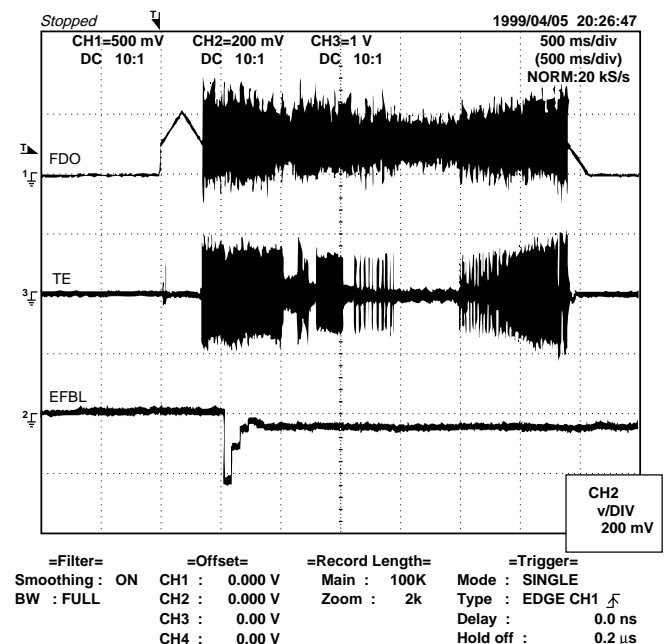


Figure 15-2

CD-XP200/CD-XP2200

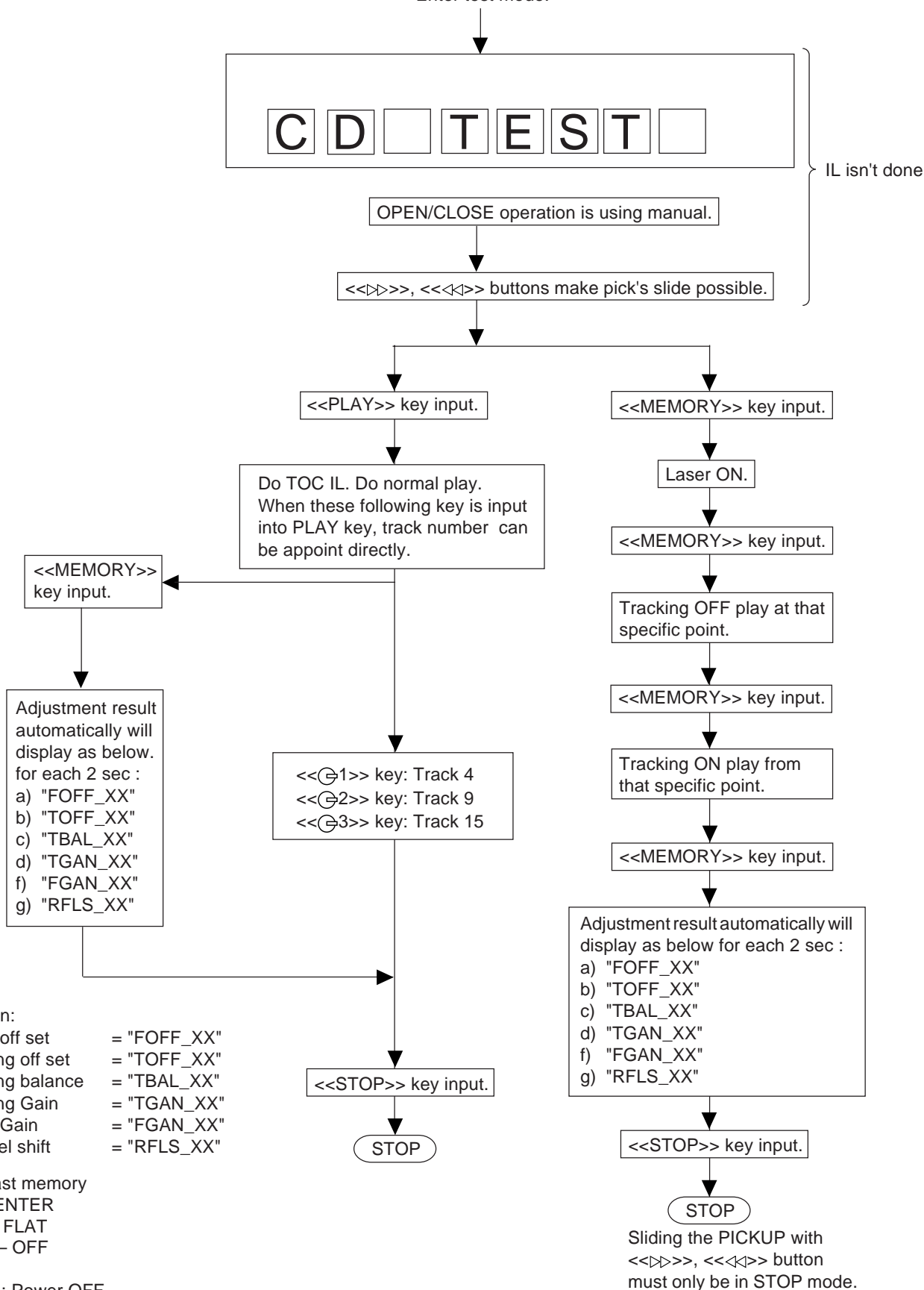
TEST MODE

• 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.



explanation:

- | | |
|---------------------|-------------|
| a) Focus off set | = "FOFF_XX" |
| b) Tracking off set | = "TOFF_XX" |
| c) Tracking balance | = "TBAL_XX" |
| d) Tracking Gain | = "TGAN_XX" |
| f) Focus Gain | = "FGAN_XX" |
| g) RF level shift | = "RFLS_XX" |

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

To cancel : Power OFF

Standard Specification of Stereo System Error Message Display Contents

Error Contents		DISPLAY	Notes
Output while Device Protection Operation.		TIMER LED FLASHING	While in Protect Circuit Operate. Over Current Detection. DC Detection.
TAPE	Mechanism Error.	'ER-TA**'	00: Tape Mechanism Error. 01: Initial Error. 02: 03:
CD/VCD	Pickup Mechanism Error.	'ER-CD**' (*)	01: PU-IN SW Detection NG. 02: 03: 04:
	CD Changer Mechanism Error.	'ER-CD**'	10: Changer Error. 11: Initial Error. 12: 13:
	CD DSP Communication Error	'ER-CD**'	31: DSP COMMUNICATION ERROR
	Focus Not Match.	'NO DISC'	
	IL Time Over.	'NOT READ'	
TUN	PLL Unlock.	'ER-TU**'	00: TUN Error. 01: PLL Unlock. 02: 03:

(*) CHECKING:

If CD changer mechanism error is detected, 'CHECKING' will be display instead of 'ER-CD**' display 'ER-CD**' will only be display when CD changer mechanism error had been detected for the 5 th times.

Speaker abnormal detection and +B PROTECTION display

In case speaker abnormal detection or +B PROTECTION had occurred, it can be check by pressing 'POWER', 'VIDEO' and 'X-BASS' key twice. Display will show "S** B**". S is referring to speaker abnormal detection and B is referring to +B PROTECTION. ** is in hex valve.

+B PROTECTION is condition when irregular process occur on power supply line.

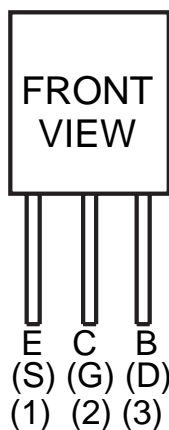
NOTES ON SCHEMATIC DIAGRAM

- 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 "△" (□ = = = □) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

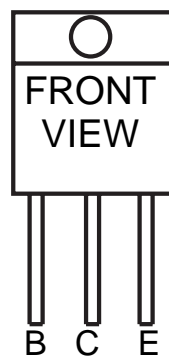
REF. NO	DESCRIPTION	POSITION
SW1	OPEN/CLOSE	ON—OFF
SW2	CLAMP	ON—OFF
SW3	DISC NUMBER	ON—OFF
SW4	PICKUP IN	ON—OFF
SW701	POWER	ON—OFF
SW702	FAST REWIND/PRESET DOWN	ON—OFF
SW703	FAST FORWARD/PRESET UP	ON—OFF
SW704	STOP	ON—OFF
SW705	PLAY/REPEAT	ON—OFF
SW711	CD	ON—OFF
SW712	TUNER (BAND)	ON—OFF
SW713	TAPE	ON—OFF

REF. NO	DESCRIPTION	POSITION
SW714	VIDEO/AUX	ON—OFF
SW715	TIMER/SLEEP	ON—OFF
SW716	TUNING/TIME UP	ON—OFF
SW717	REC PAUSE	ON—OFF
SW718	MEMORY/SET	ON—OFF
SW719	TUNING/TIME DOWN	ON—OFF
SW720	CLOCK	ON—OFF
SW721	VOLUME UP	ON—OFF
SW722	VOLUME DOWN	ON—OFF
SW723	DISC SKIP	ON—OFF
SW724	OPEN/CLOSE	ON—OFF
SW725	EQUALIZER/X-BASS/DEMO	ON—OFF

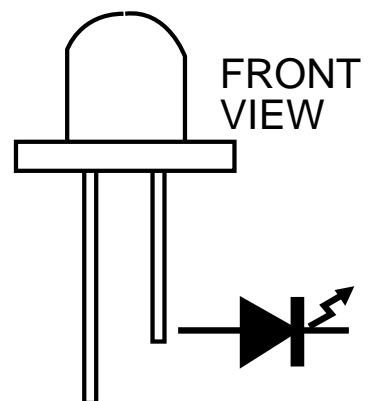
TYPES OF TRANSISTOR AND LED



KRC102 M KTC3194 Y
 KRC104 M KTC3199 GR
 KTA1266 GR KTC3200 GR
 KTA1273 Y KTC3203 Y
 KTA1274 Y



KTC2026



SLR342VCJ

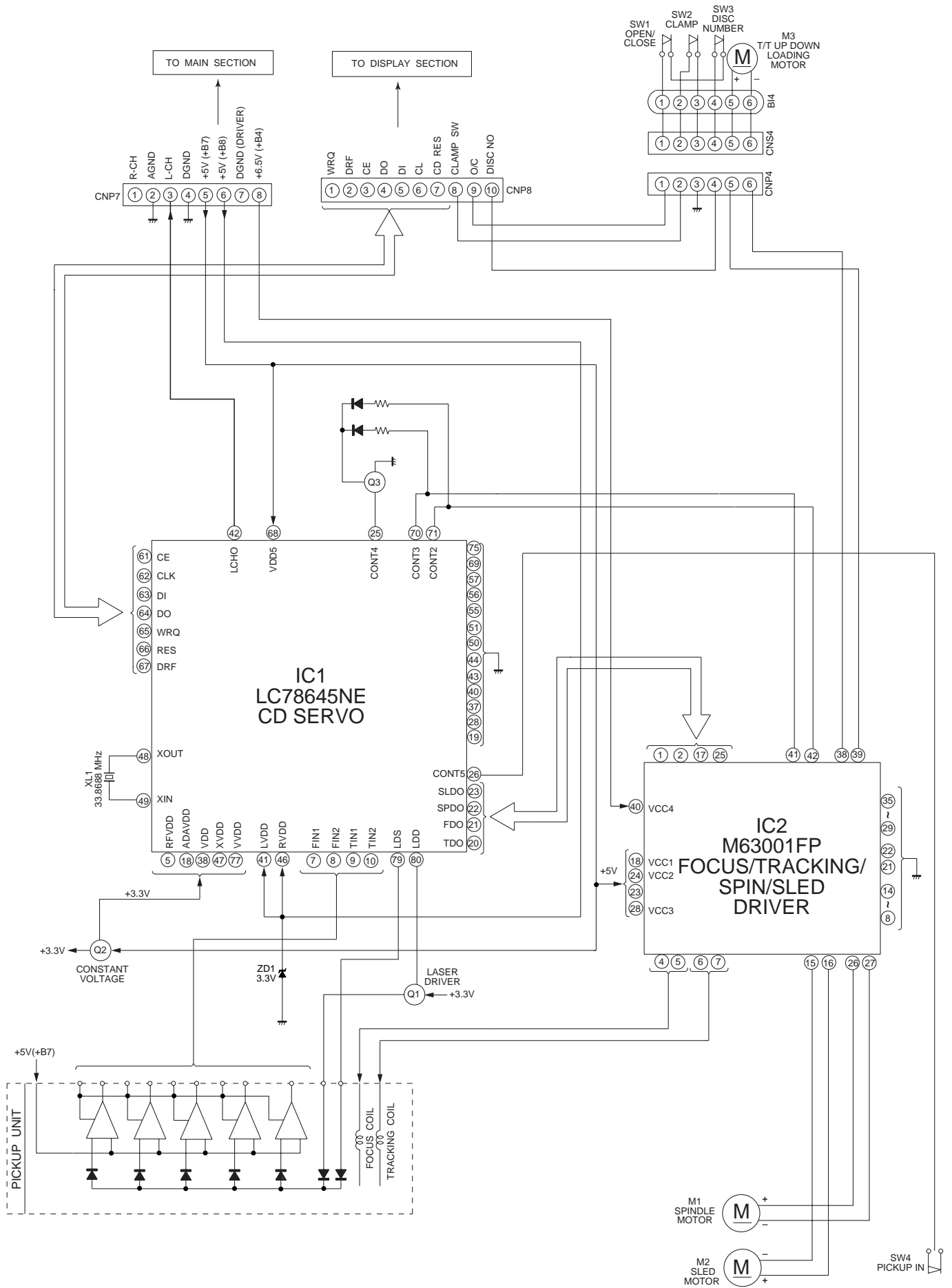


Figure 19 BLOCK DIAGRAM (1/3)

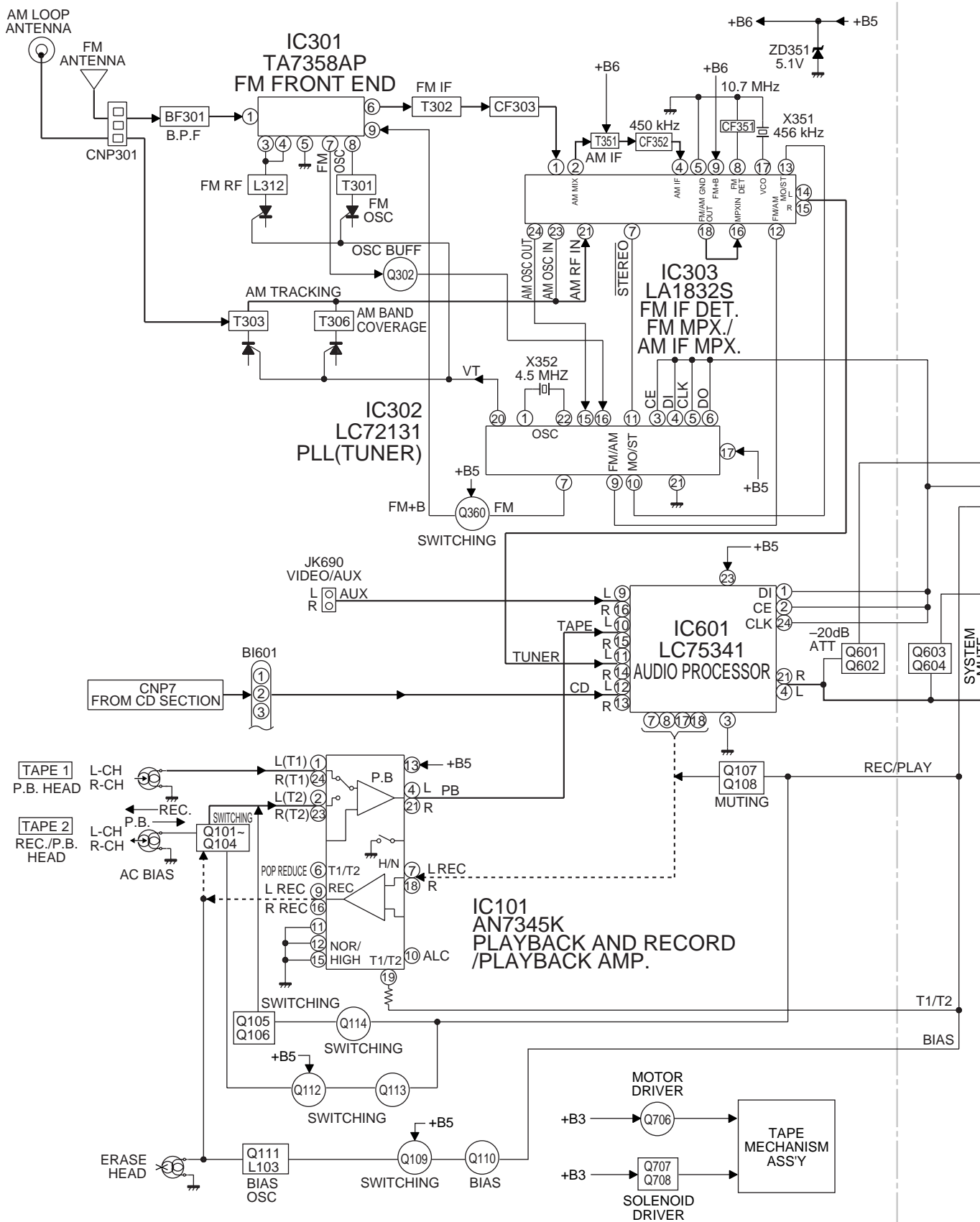


Figure 20 BLOCK DIAGRAM (2/3)

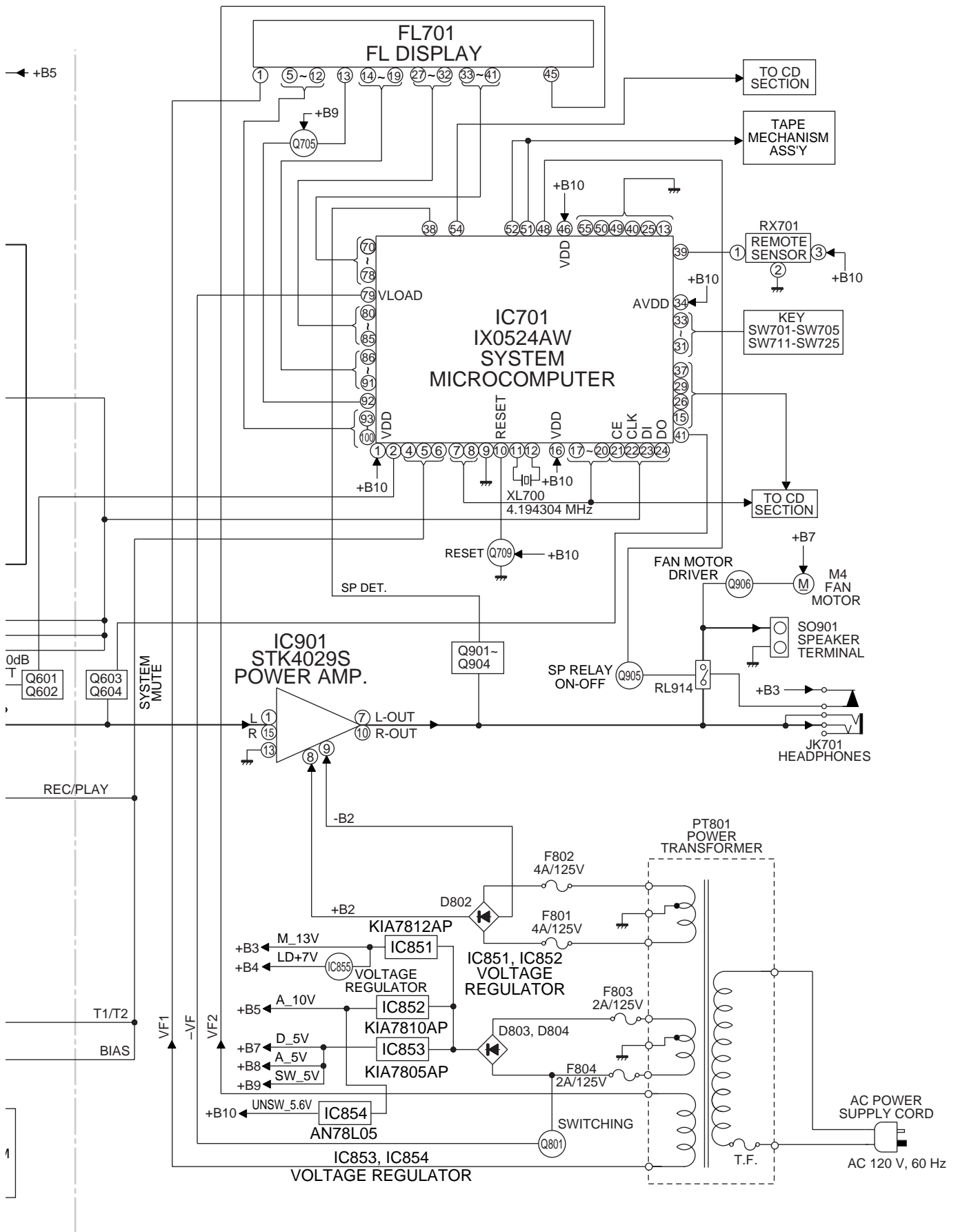
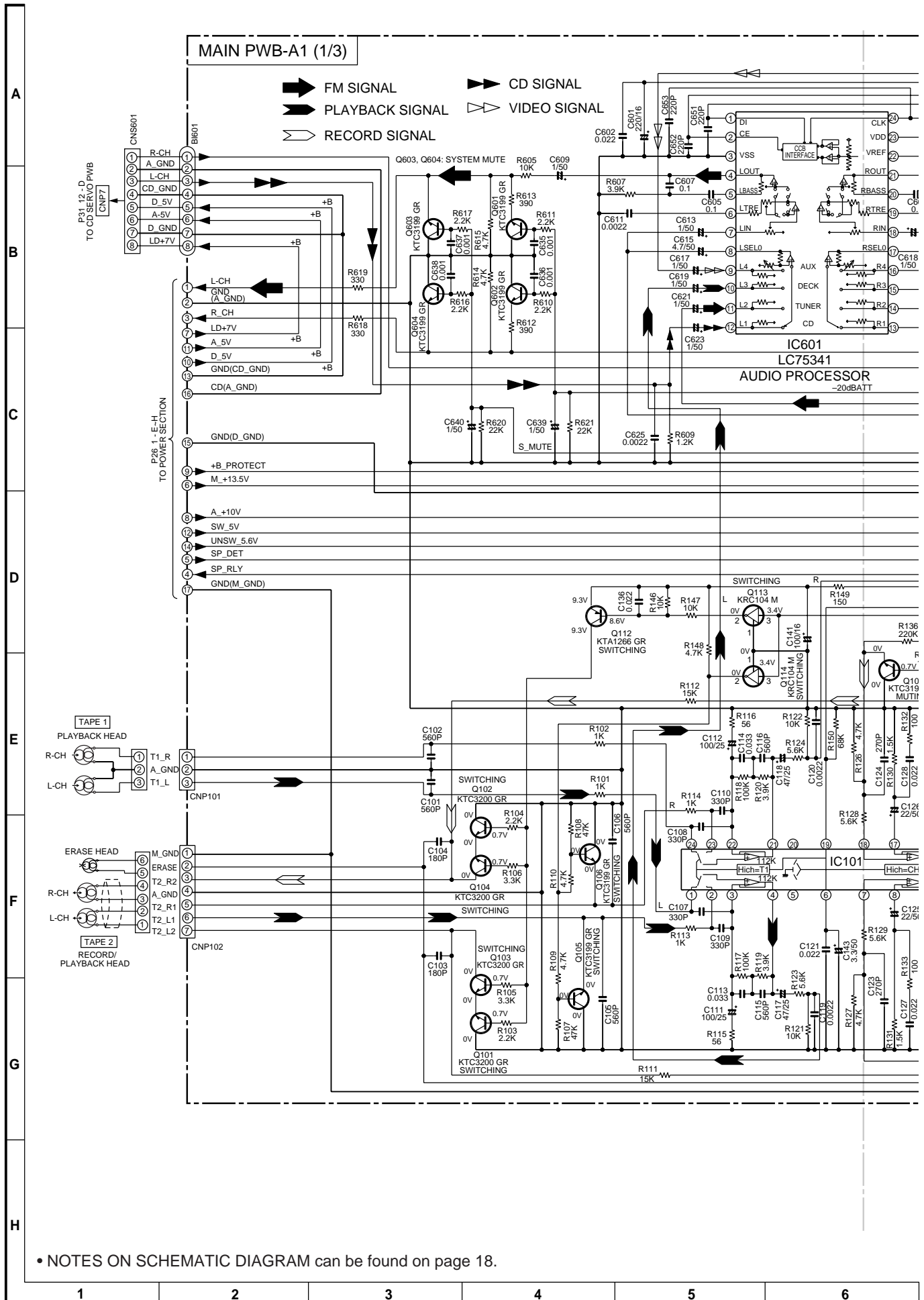


Figure 21 BLOCK DIAGRAM (3/3)



• NOTES ON SCHEMATIC DIAGRAM can be found on page 18.

Figure 22 SCHEMATIC DIAGRAM (1/10)

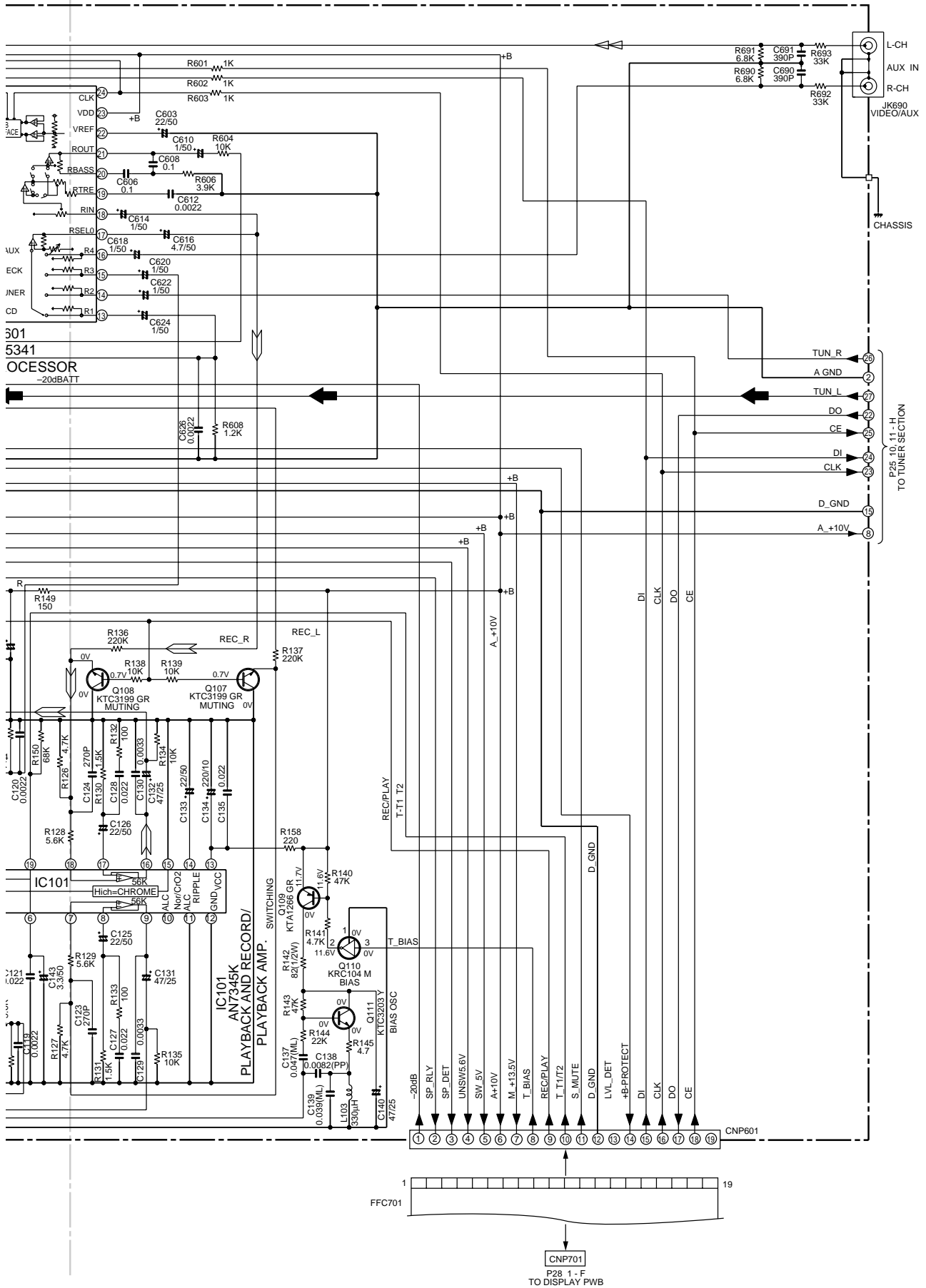


Figure 23 SCHEMATIC DIAGRAM (2/10)

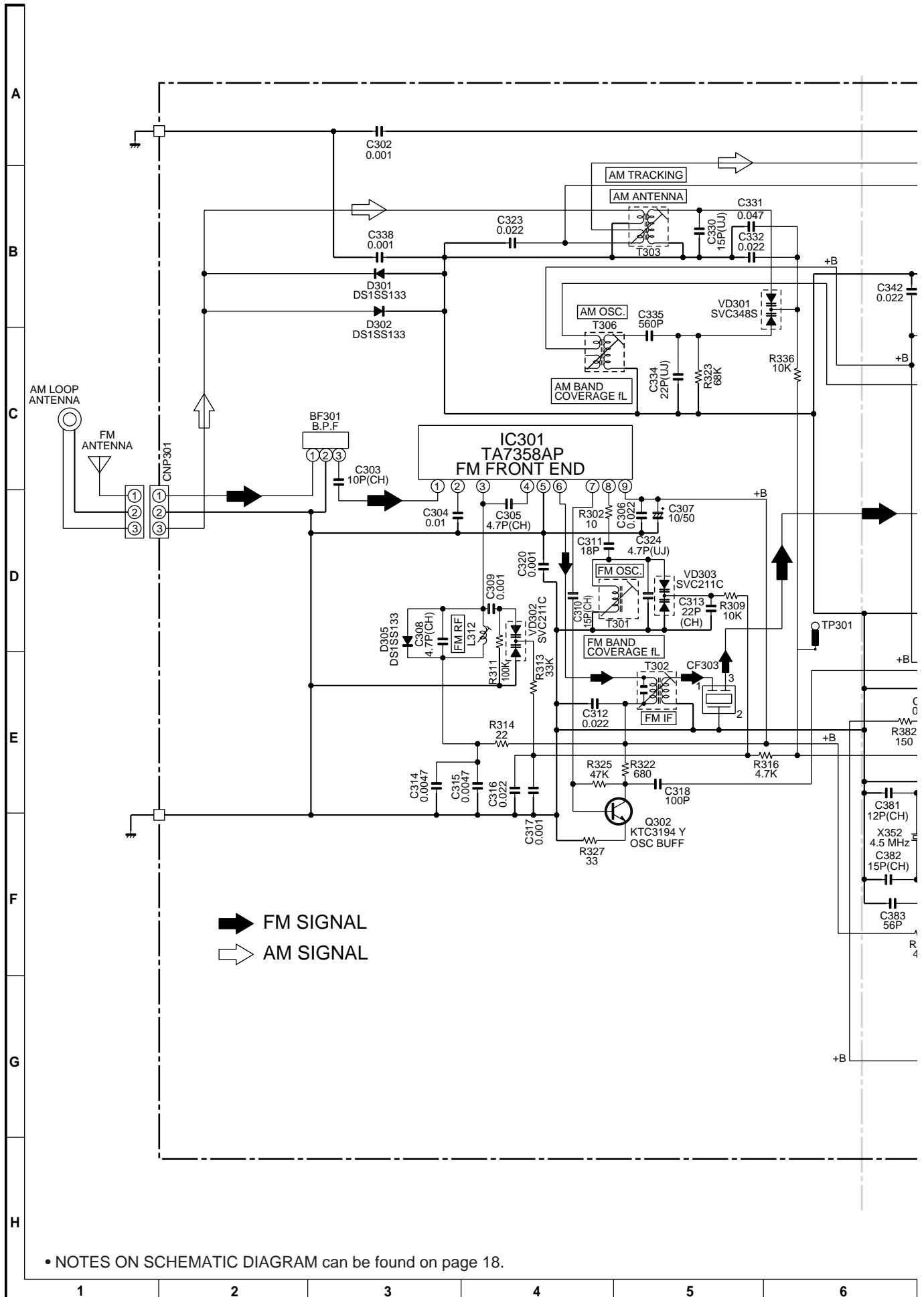


Figure 24 SCHEMATIC DIAGRAM (3/10)

MAIN PWB-A1 (2/3)

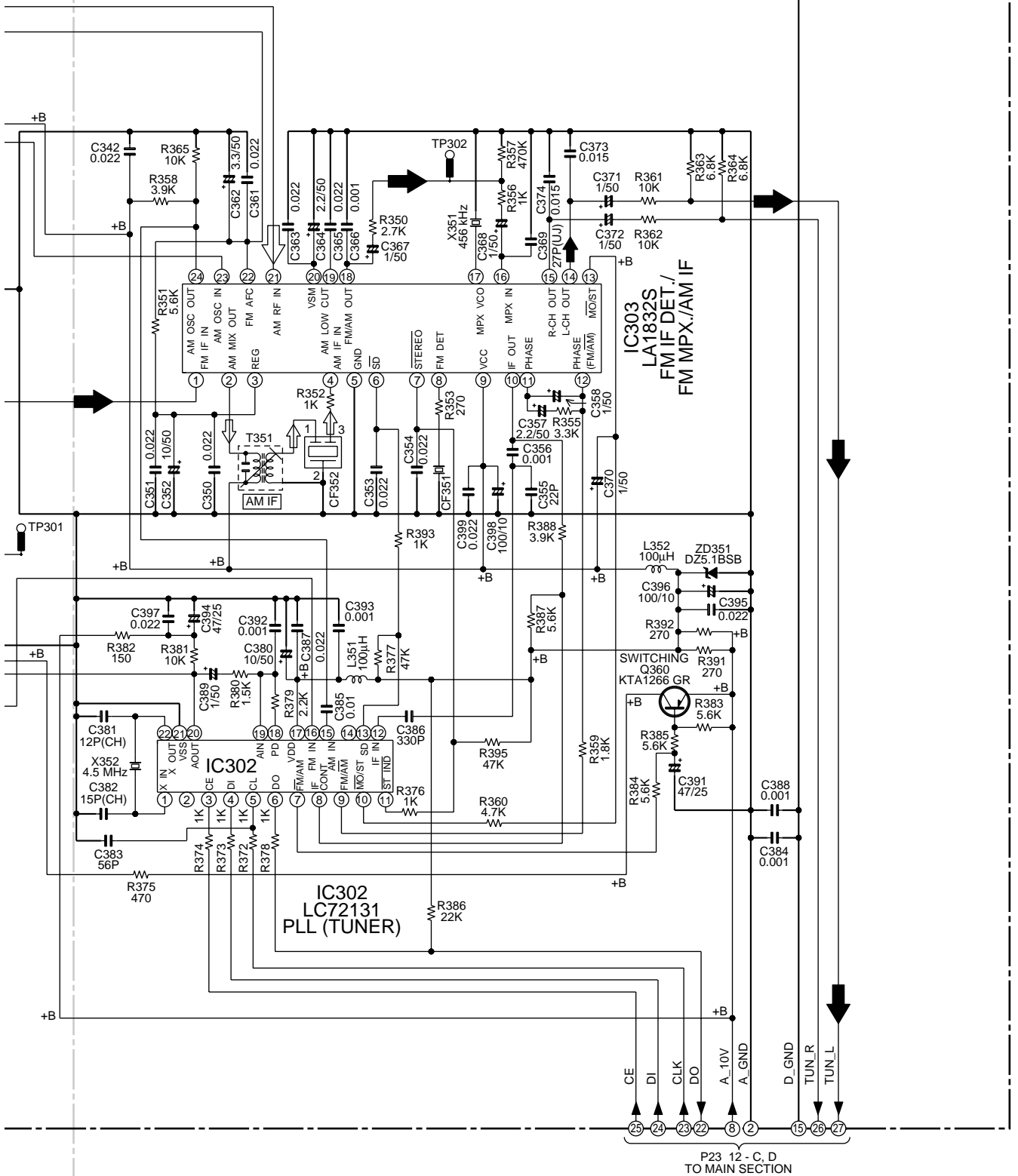


Figure 25 SCHEMATIC DIAGRAM (4/10)

CD-XP200/CD-XP2200

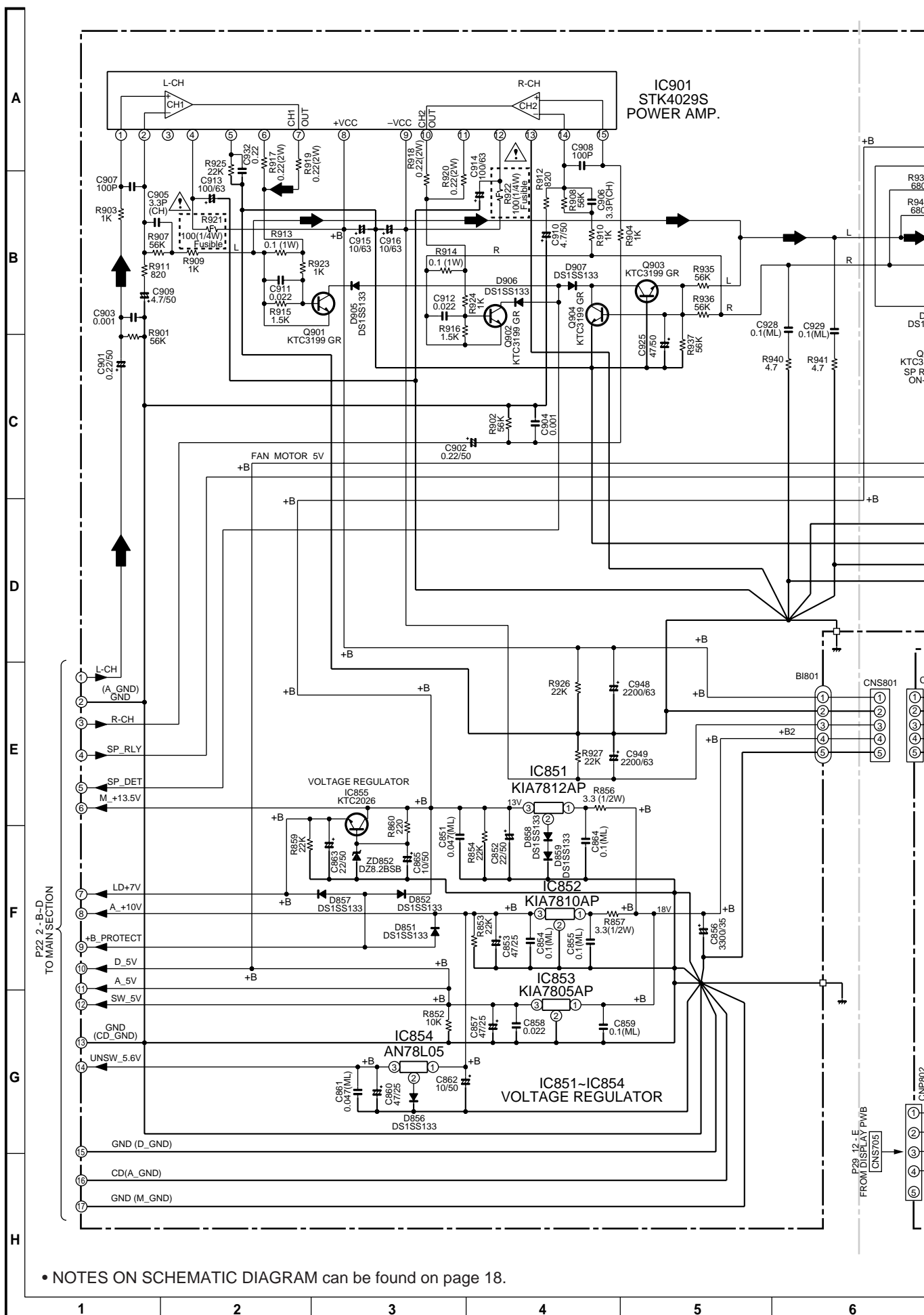


Figure 26 SCHEMATIC DIAGRAM (5/10)

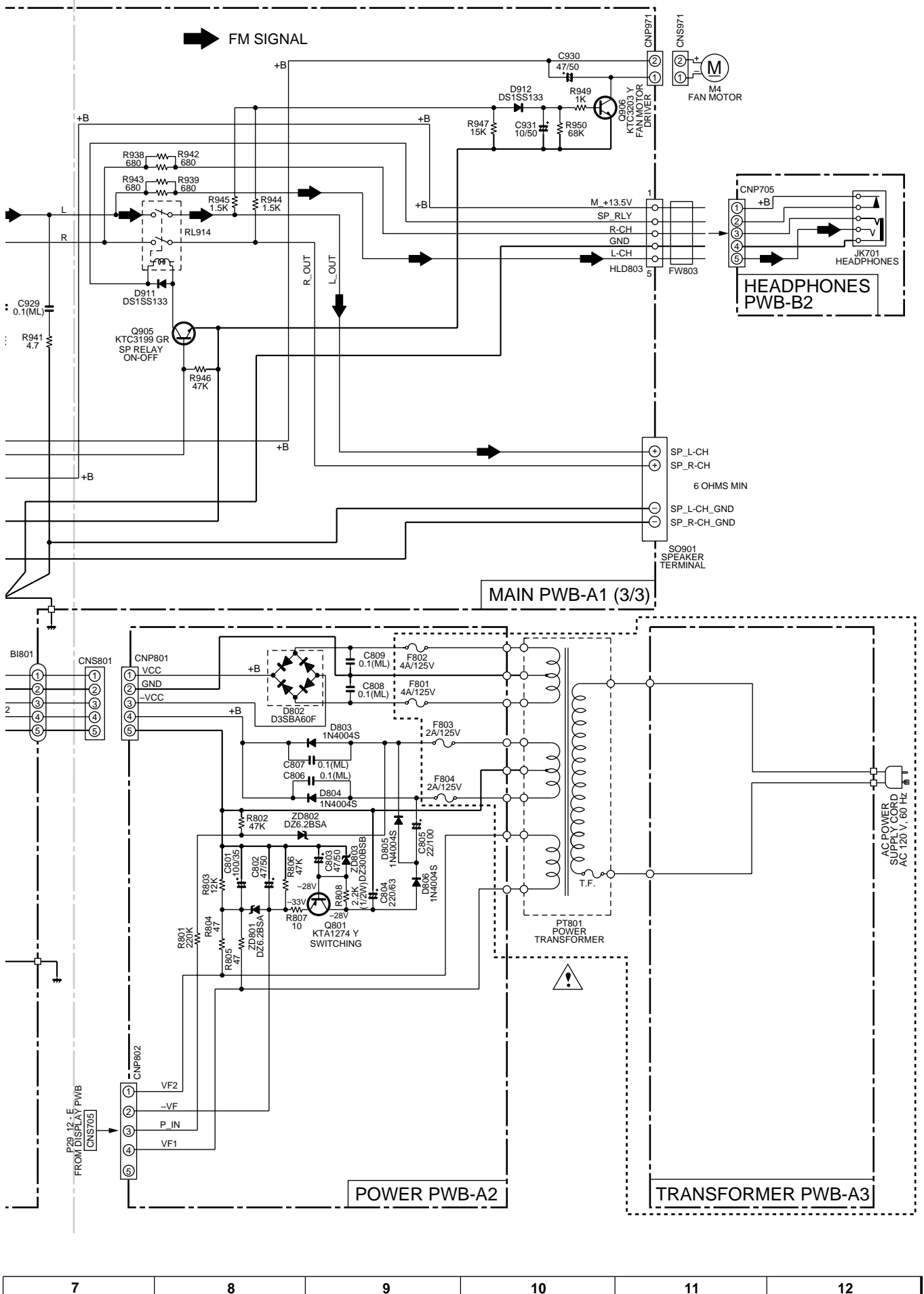
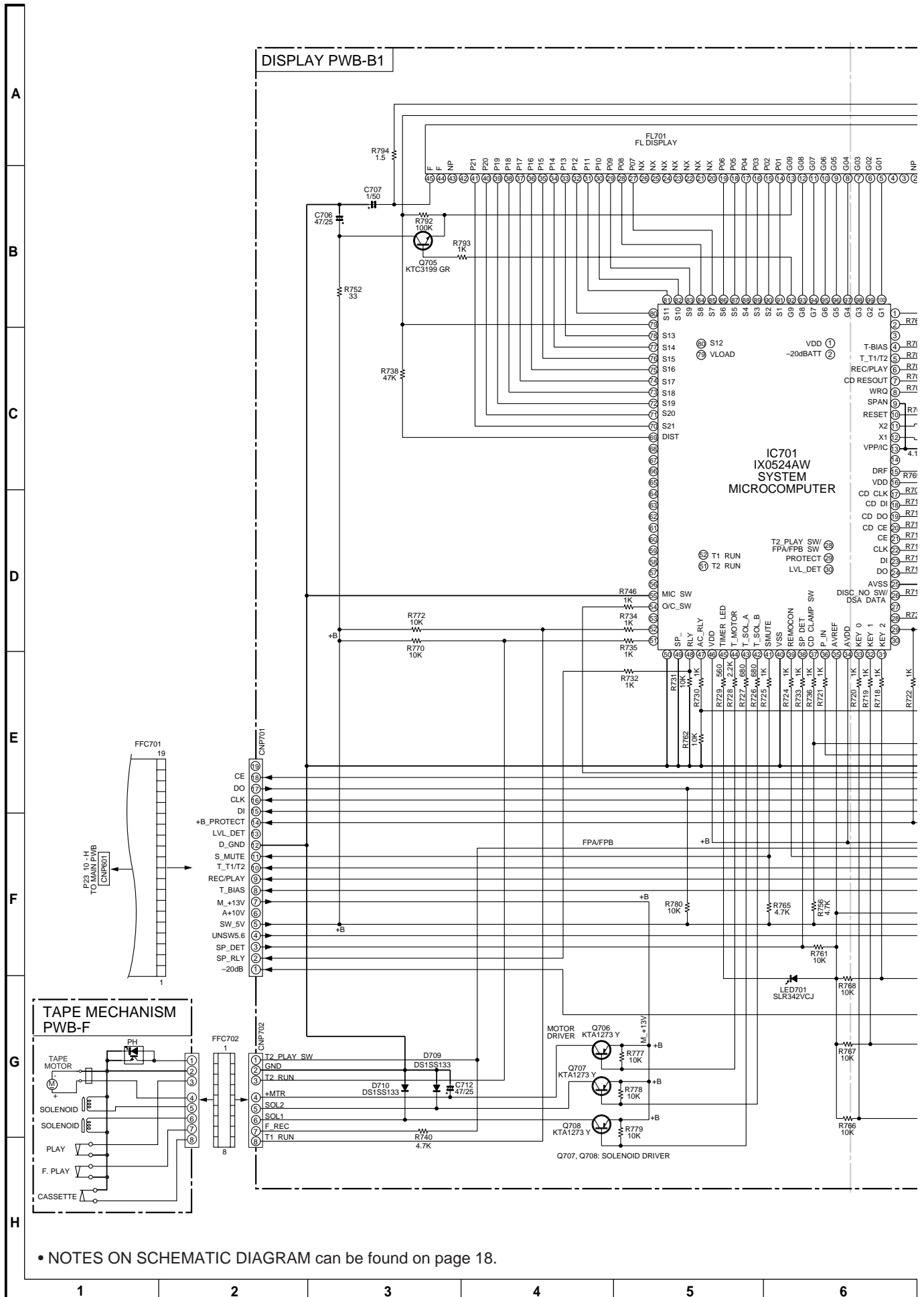
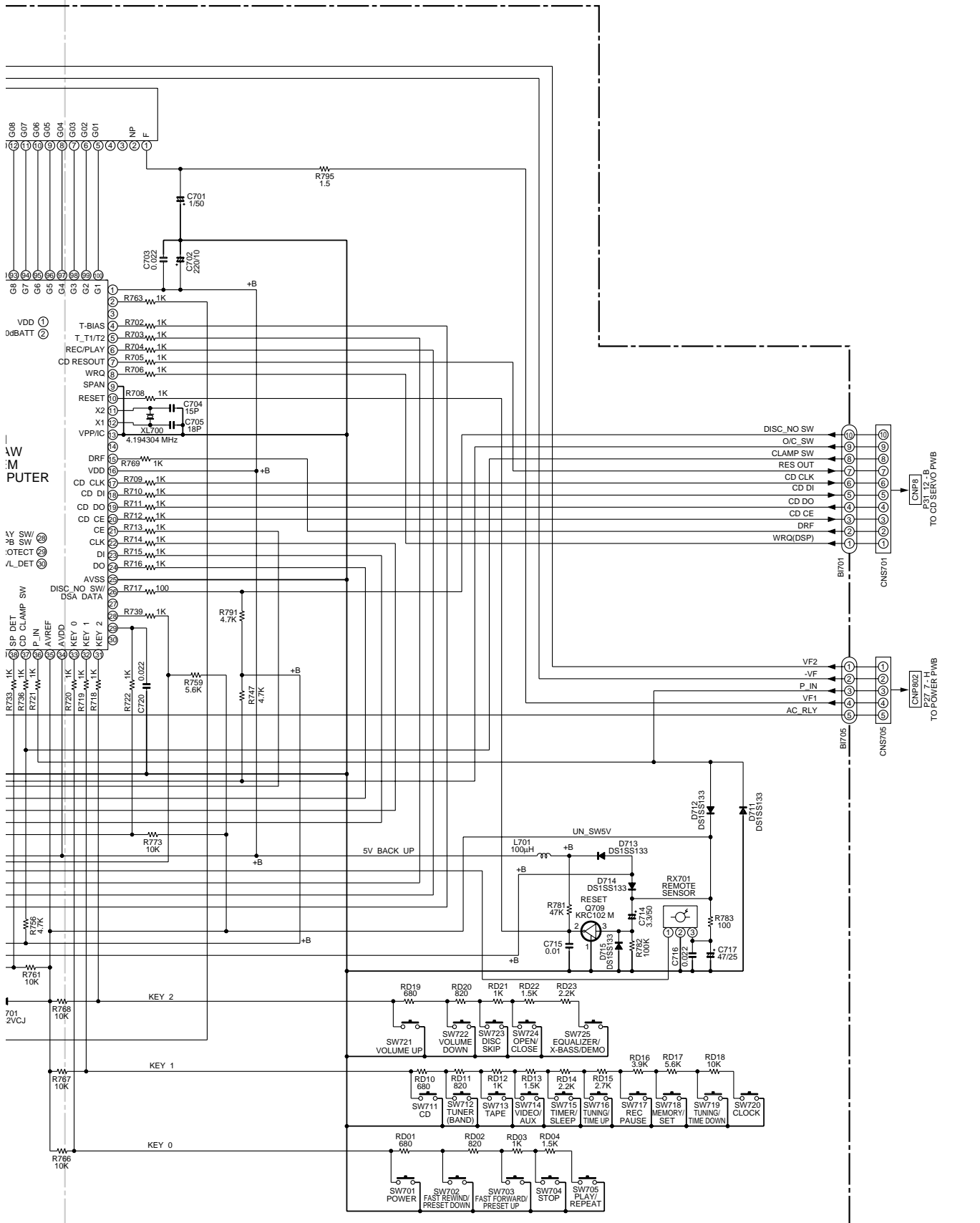


Figure 27 SCHEMATIC DIAGRAM (6/10)



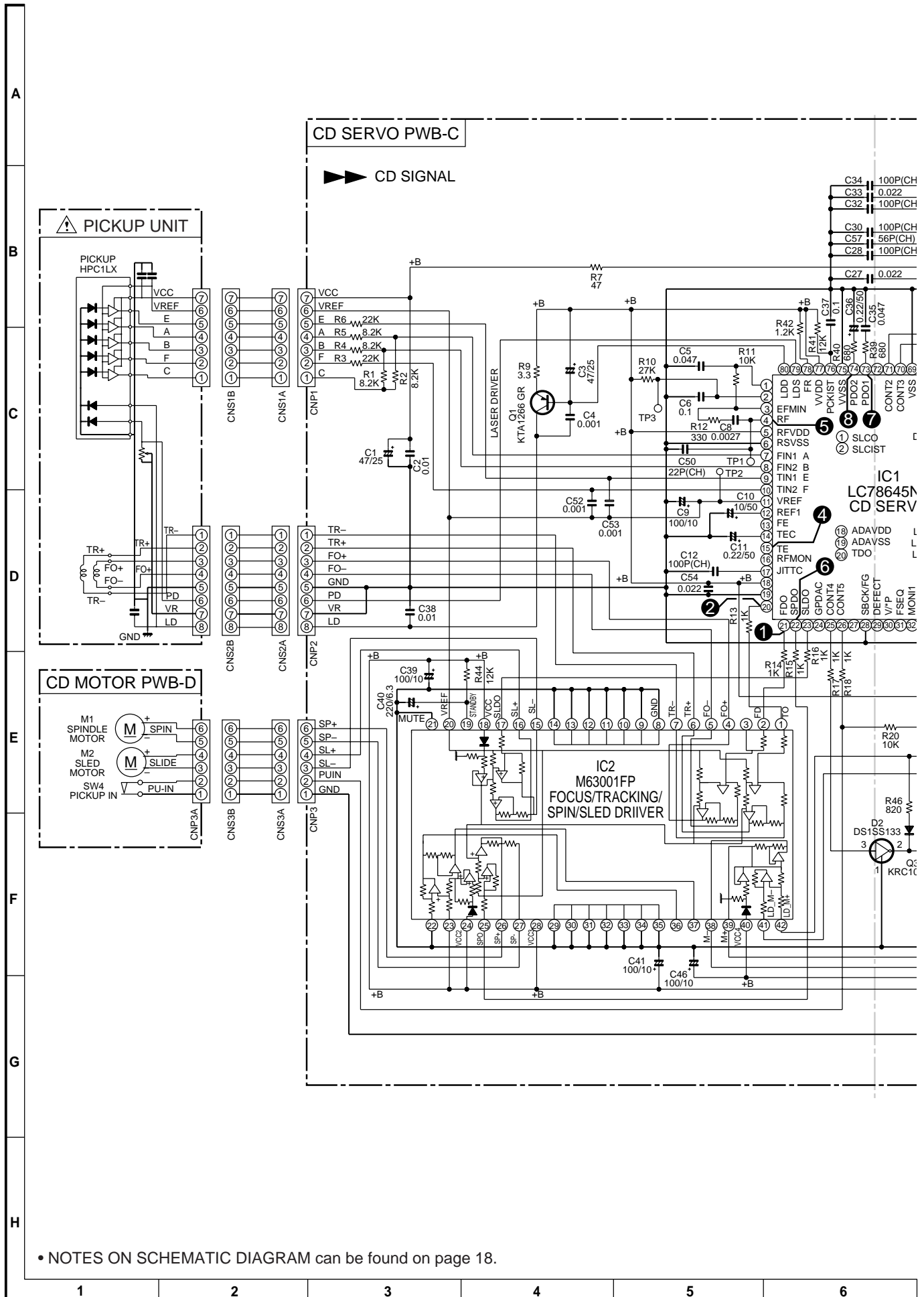
• NOTES ON SCHEMATIC DIAGRAM can be found on page 18.

Figure 28 SCHEMATIC DIAGRAM (7/10)



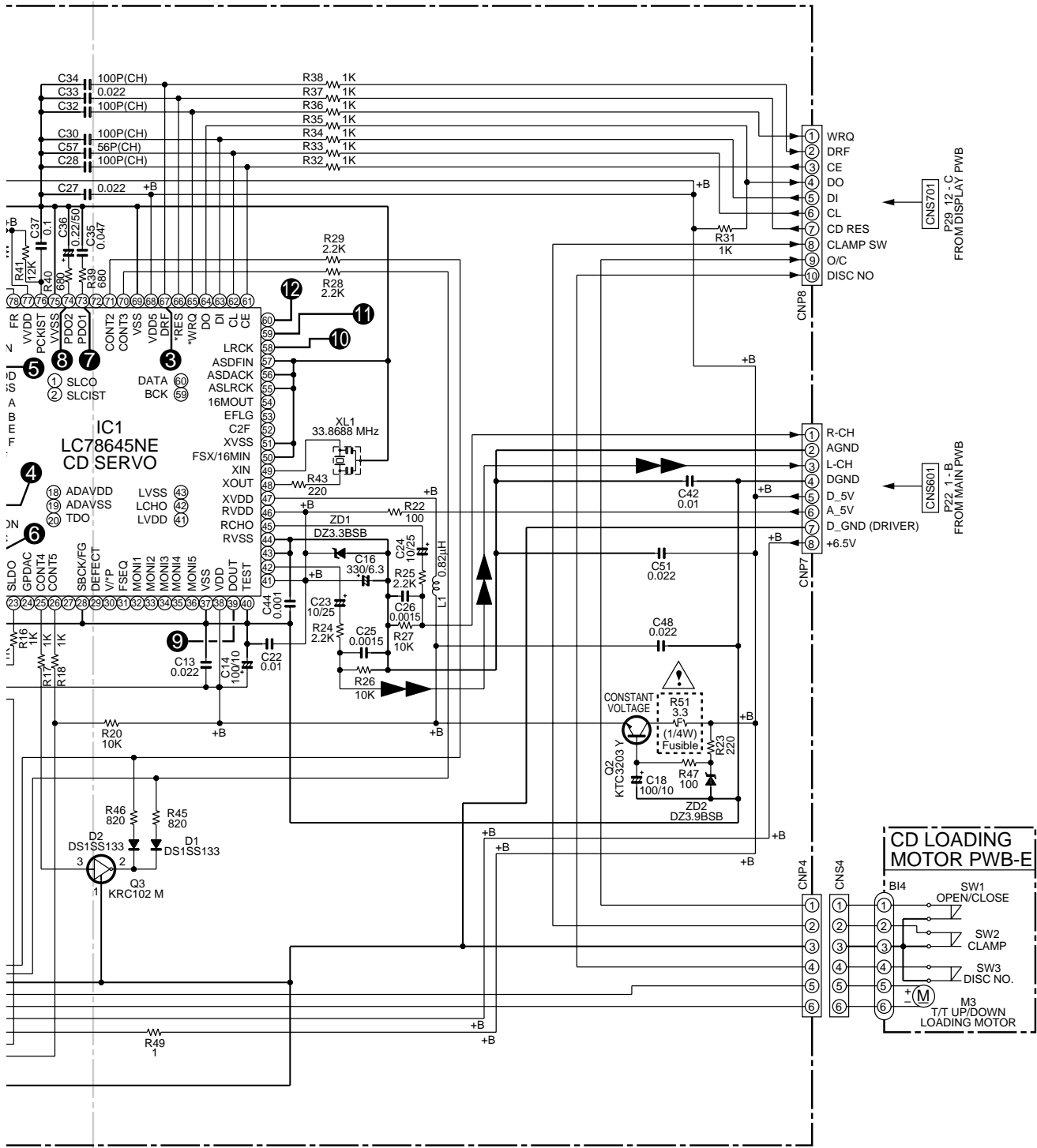
7	8	9	10	11	12
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Figure 29 SCHEMATIC DIAGRAM (8/10)



• NOTES ON SCHEMATIC DIAGRAM can be found on page 18.

Figure 30 SCHEMATIC DIAGRAM (9/10)



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

7	8	9	10	11	12
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Figure 31 SCHEMATIC DIAGRAM (10/10)

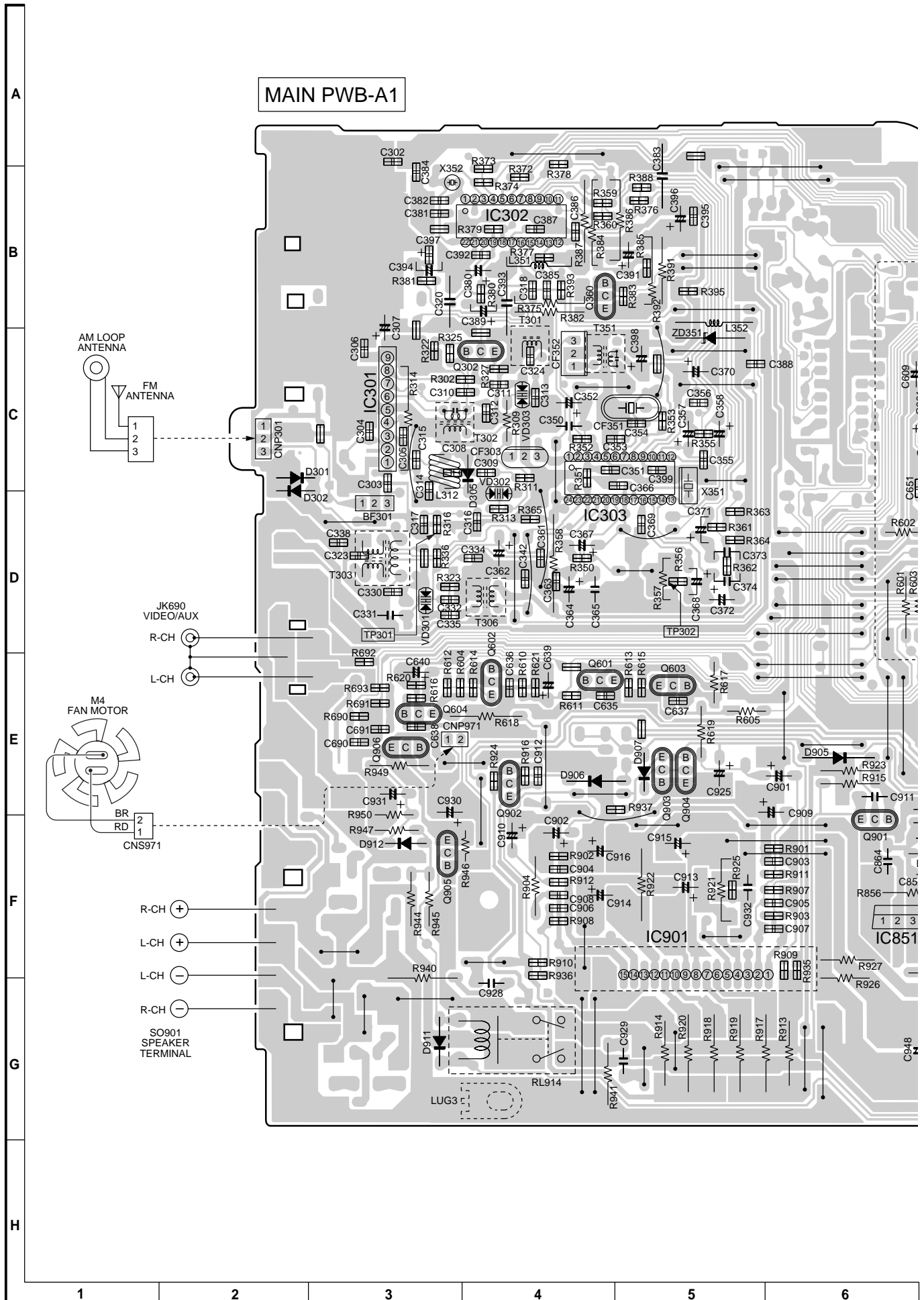


Figure 32 WIRING SIDE OF P.W.BOARD (1/7)

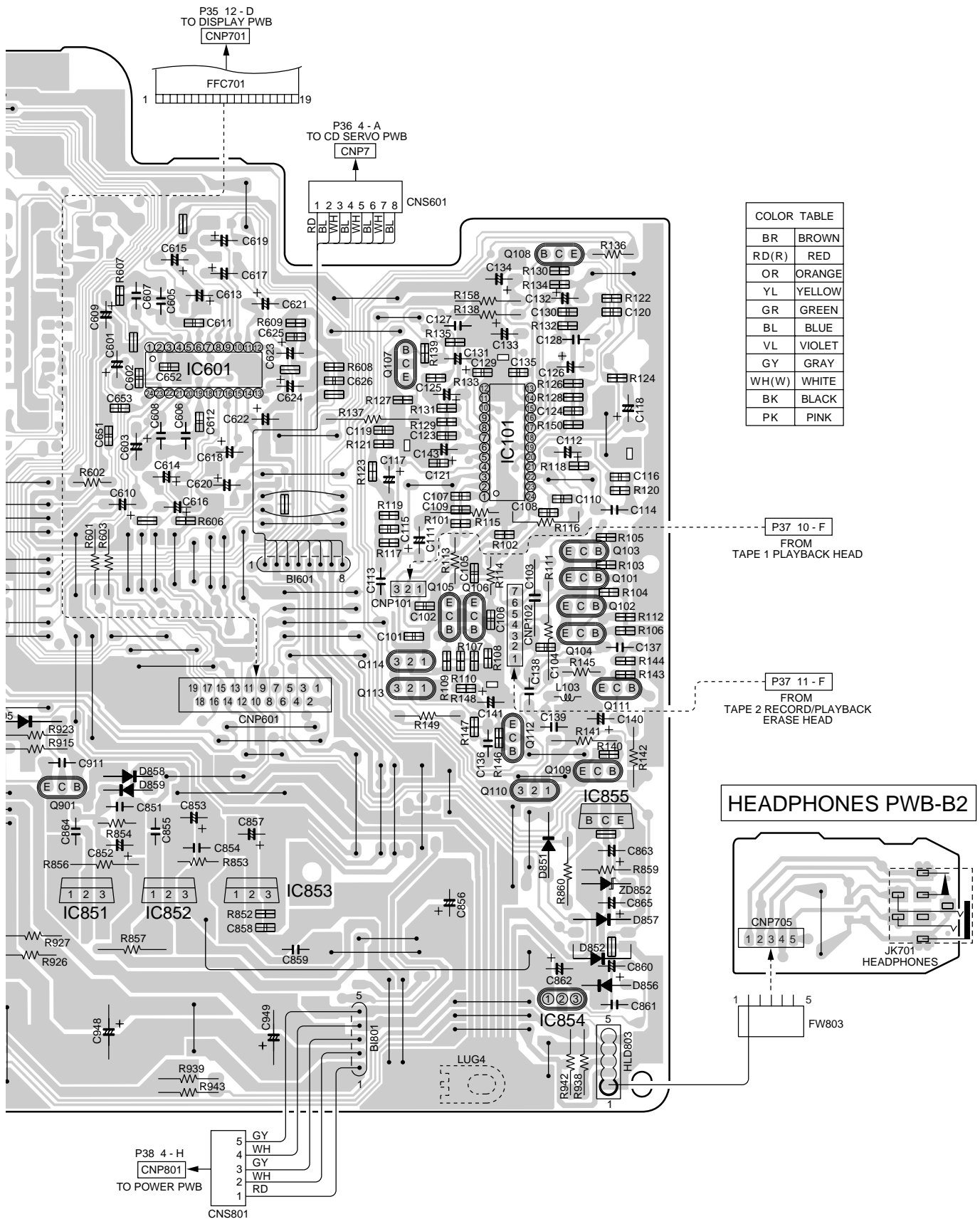


Figure 33 WIRING SIDE OF P.W.BOARD (2/7)

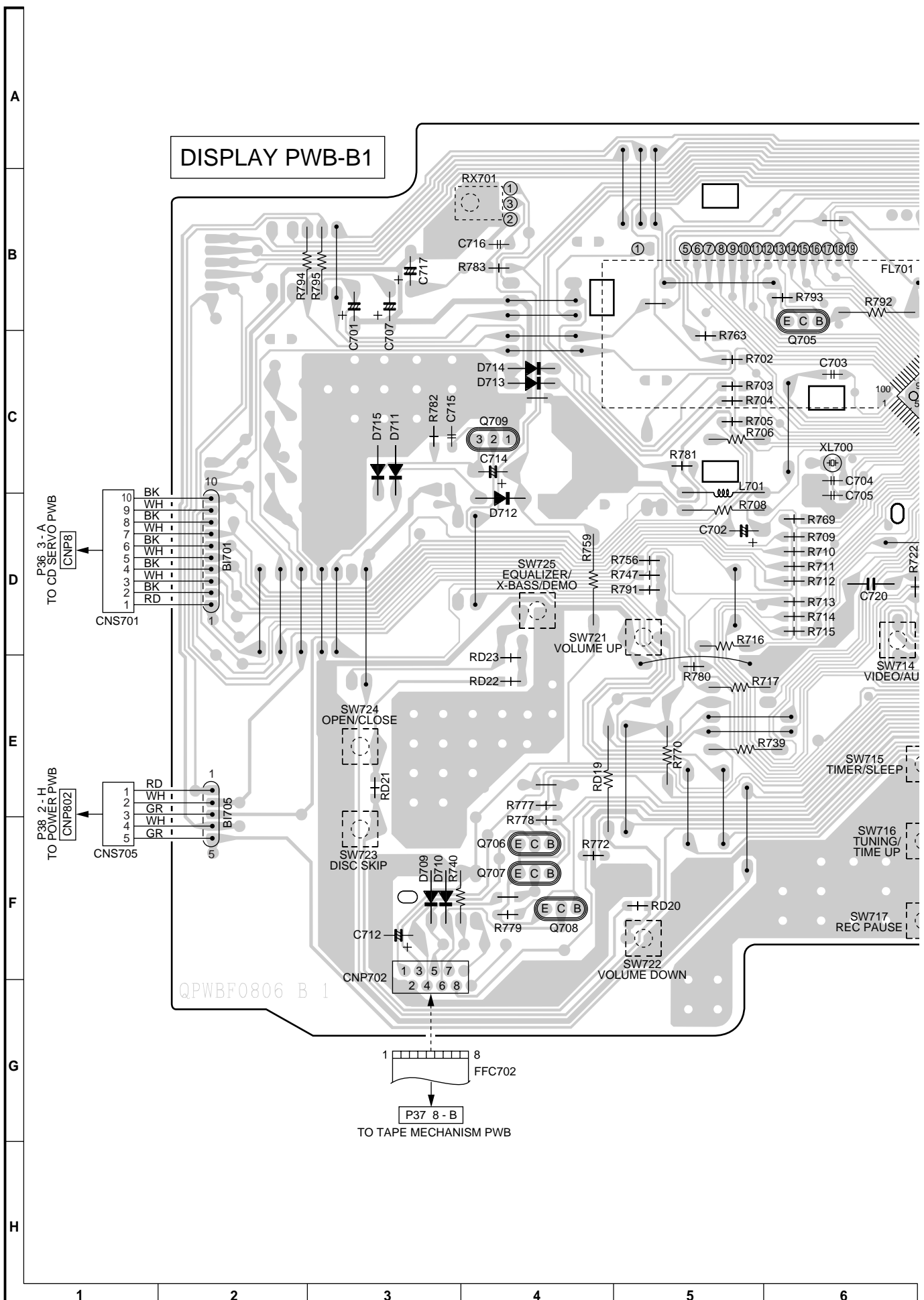


Figure 34 WIRING SIDE OF P.W.BOARD (3/7)

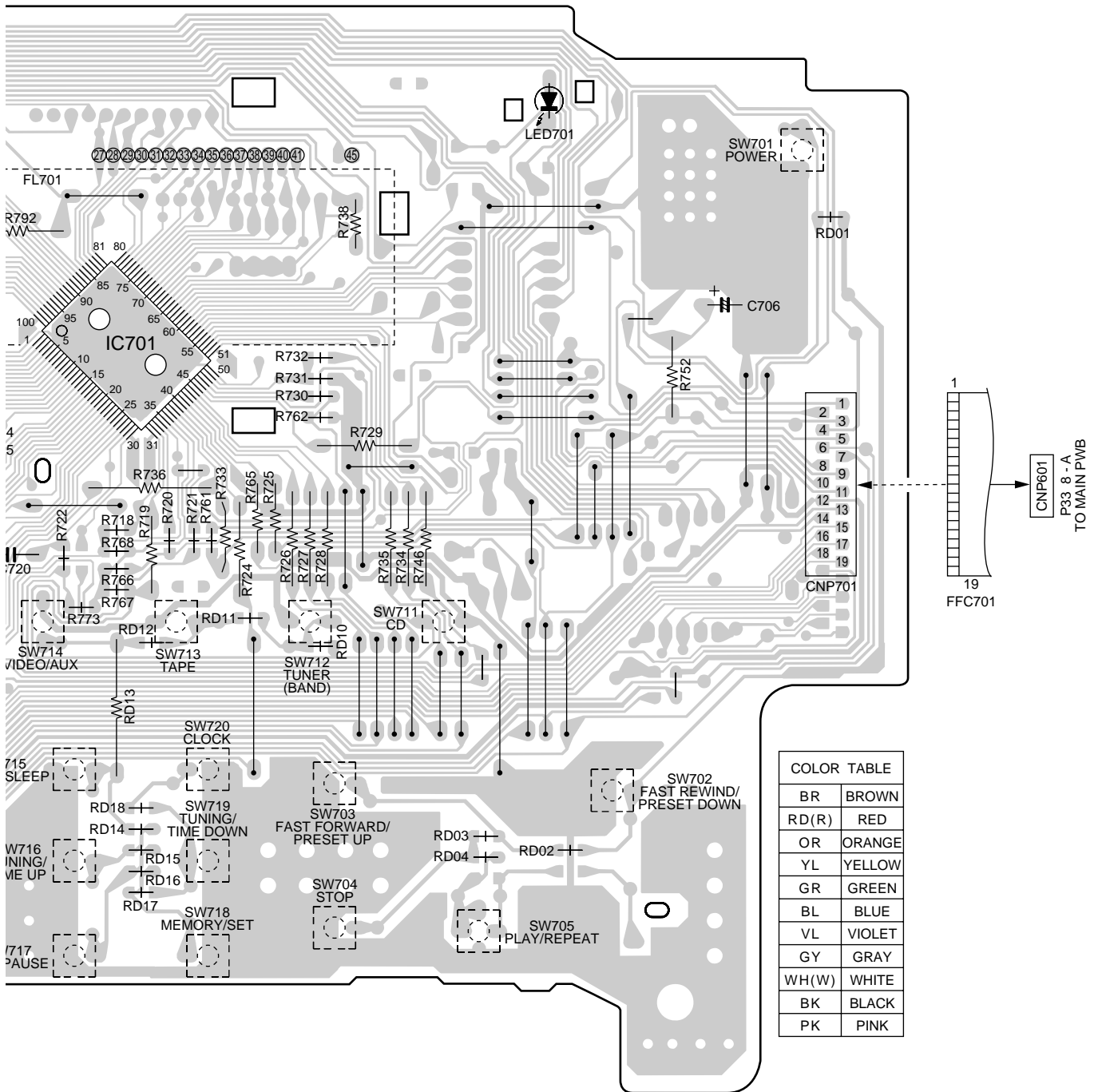


Figure 35 WIRING SIDE OF P.W.BOARD (4/7)

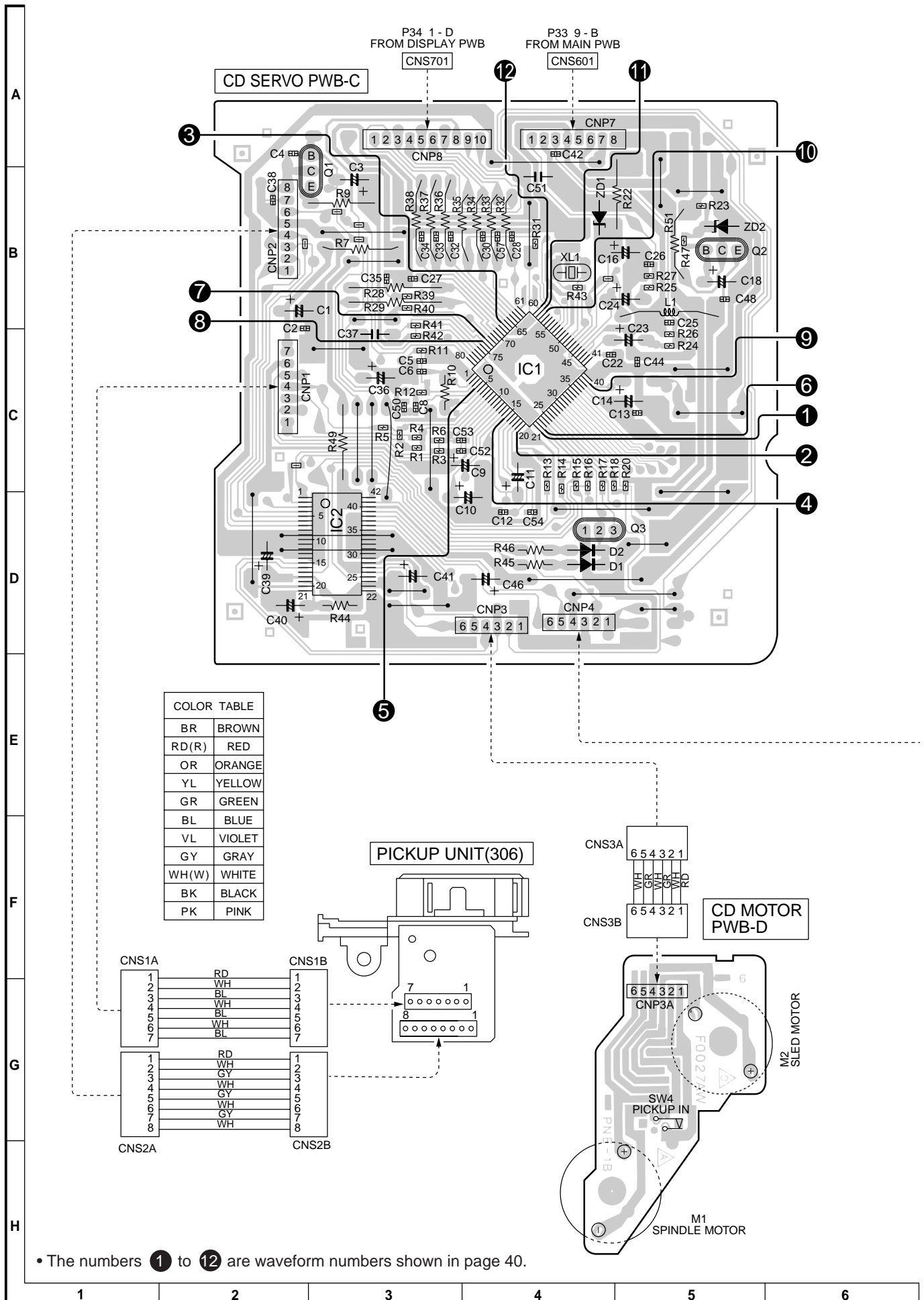
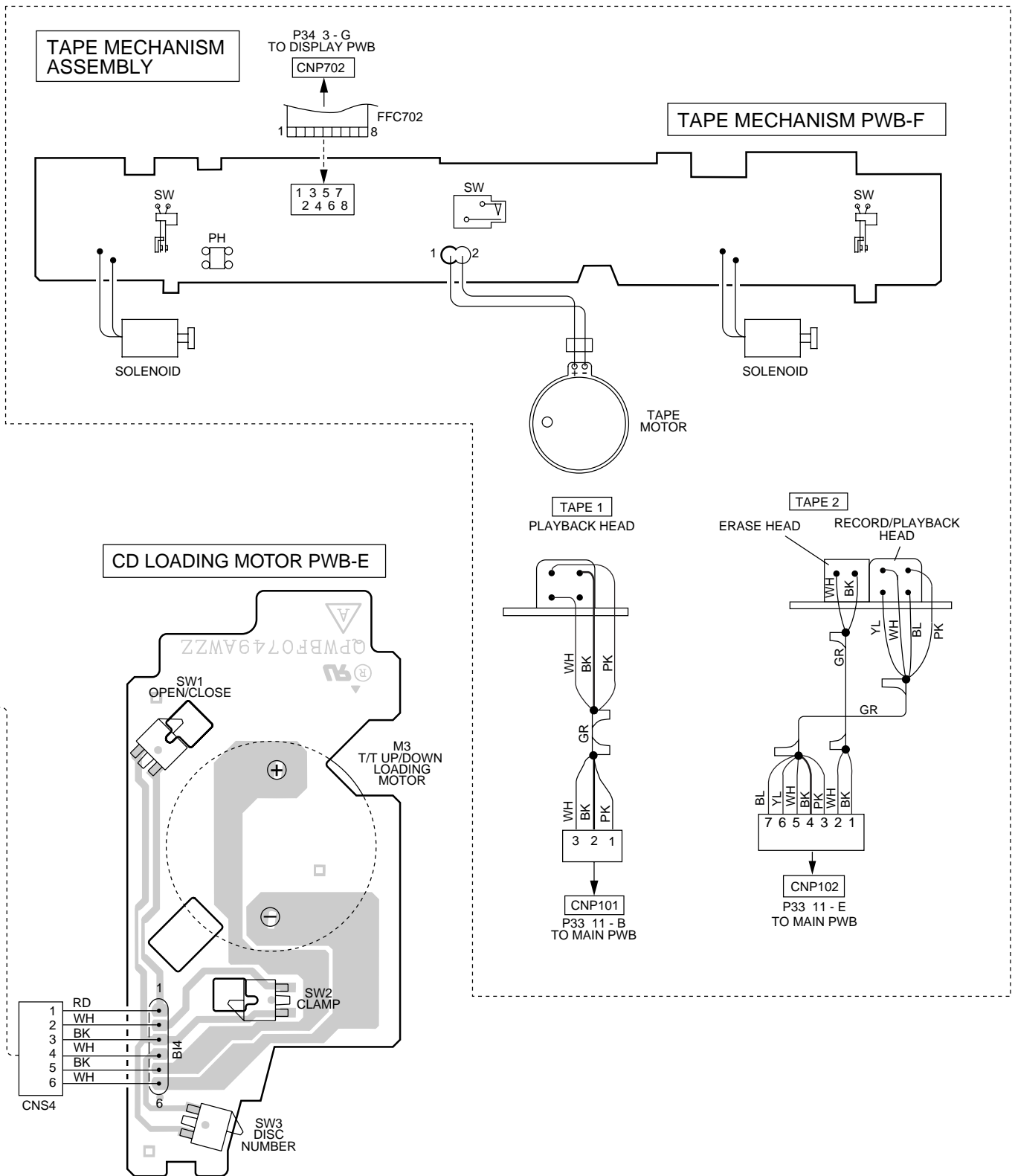


Figure 36 WIRING SIDE OF P.W.BOARD (5/7)



7	8	9	10	11	12
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Figure 37 WIRING SIDE OF P.W.BOARD (6/7)

CD-XP200/CD-XP2200

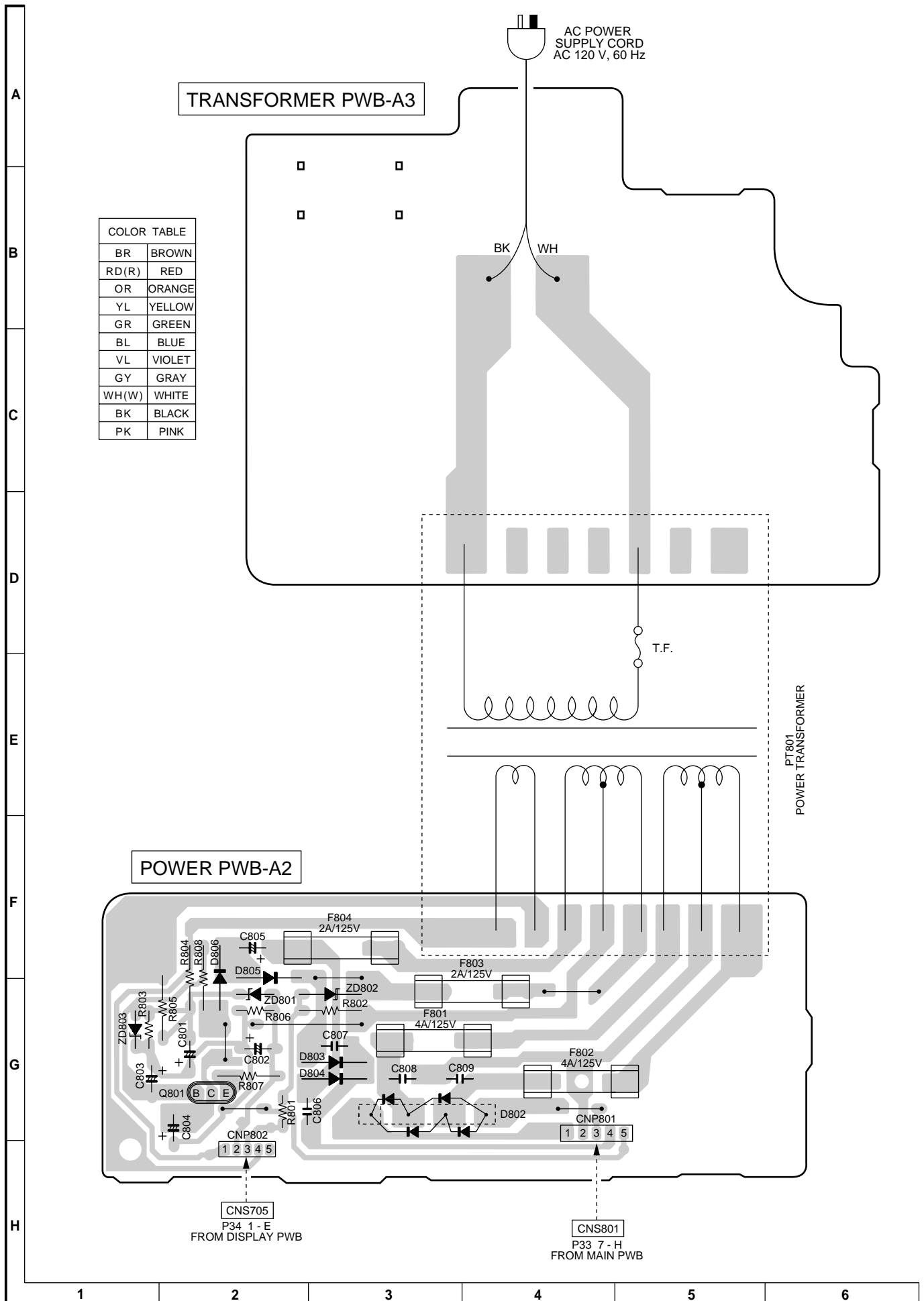


Figure 38 WIRING SIDE OF P.W.BOARD (777)

VOLTAGE

IC1	
PIN	VOLTAGE
1	1.59 V
2	1.04 V
3	1.59 V
4	1.77 V
5	3.25 V
6	0 V
7	1.64 V
8	1.65 V
9	1.64 V
10	1.64 V
11	1.66 V
12	1.62 V
13	1.61 V
14	1.43 V
15	1.44 V
16	0 V
17	0 V
18	3.26 V
19	0 V
20	0 V
21	0 V
22	0 V
23	1.63 V
24	1.63 V
25	0 V
26	3.26 V
27	3.25 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	0 V
37	0 V
38	3.22 V
39	0.60 V
40	0 V
41	3.45 V
42	1.74 V
43	0 V
44	0 V
45	1.74 V
46	3.45 V
47	3.24 V
48	1.66 V
49	1.57 V
50	0 V
51	0 V
52	3.24 V
53	1.62 V
54	1.67 V
55	0 V
56	0 V
57	0 V
58	0 V
59	0 V
60	0 V
61	0 V
62	0 V
63	0 V
64	4.93 V
65	4.92 V
66	4.75 V
67	0 V
68	4.92 V
69	0 V
70	3.48 V
71	3.47 V
72	0 V
73	0.55 V
74	0 V
75	0 V
76	1.02 V
77	3.24 V
78	2.49 V
79	0 V
80	0 V

IC2	
PIN	VOLTAGE
1	1.65 V
2	1.65 V
3	1.86 V
4	2.12 V
5	2.13 V
6	2.12 V
7	2.13 V
8	0 V
9	0 V
10	0 V
11	0 V
12	0 V
13	0 V
14	0 V
15	2.14 V
16	2.12 V
17	1.65 V
18	4.90 V
19	2.95 V
20	2.10 V
21	0 V
22	0 V
23	4.91 V
24	4.91 V
25	1.65 V
26	2.12 V
27	2.13 V
28	4.91 V
29	0 V
30	0 V
31	0 V
32	0 V
33	0 V
34	0 V
35	0 V
36	4.20 V
37	0 V
38	3.49 V
39	3.49 V
40	7.65 V
41	3.48 V
42	3.48 V

IC101	
PIN	VOLTAGE
1	0 V
2	0 V
3	0.56 V
4	1.71 V
5	0 V
6	1.30 V
7	0 V
8	0.59 V
9	2.98 V
10	2.97 V
11	0 V
12	0 V
13	7.09 V
14	3.67 V
15	0 V
16	2.47 V
17	0.59 V
18	0 V
19	2.65 V
20	0 V
21	1.67 V
22	0.56 V
23	0 V
24	0 V

IC301	
PIN	VOLTAGE
1	0 V
2	0 V
3	0 V
4	0 V
5	0 V
6	0 V
7	0 V
8	0 V
9	0 V

PIN	VOLTAGE
1	2.44 V
2	0 V
3	0 V
4	4.79 V
5	4.79 V
6	4.97 V
7	9.87 V
8	4.59 V
9	3.78 V
10	3.88 V
11	5.02 V
12	0 V
13	5.02 V
14	0 V
15	2.49 V
16	0 V
17	5.04 V
18	0 V
19	0 V
20	9.87 V
21	0 V
22	2.46 V

IC303	
PIN	VOLTAGE
1	2.07 V
2	4.93 V
3	2.08 V
4	2.07 V
5	0 V
6	5.02 V
7	5.02 V
8	2.86 V
9	4.94 V
10	4.27 V
11	3.78 V
12	3.78 V
13	3.89 V
14	1.15 V
15	1.18 V
16	2.07 V
17	2.26 V
18	0.80 V
19	0 V
20	1.03 V
21	3.93 V
22	3.93 V
23	4.93 V
24	3.44 V

IC601	
PIN	VOLTAGE
1	4.78 V
2	0 V
3	0 V
4	4.42 V
5	4.38 V
6	4.31 V
7	4.92 V
8	4.95 V
9	4.92 V
10	4.92 V
11	4.92 V
12	4.92 V
13	4.92 V
14	4.92 V
15	4.92 V
16	4.92 V
17	4.94 V
18	4.92 V
19	4.92 V
20	4.91 V
21	4.94 V
22	4.94 V
23	9.88 V
24	4.79 V

IC901	
PIN	VOLTAGE
1	0 V
2	0 V
3	0 V
4	42.5 V
5	-41.2 V
6	0 V
7	0 V
8	43.7 V
9	-43.7 V
10	0 V
11	0 V
12	-42.4 V
13	0 V
14	0 V
15	0 V

1C701			
PIN	VOLTAGE	PIN	VOLTAGE
1	4.79 V	51	0 V
2	4.70 V	52	0 V
3	0 V	53	0 V
4	0 V	54	0 V
5	0.63 V	55	0 V
6	4.75 V	56	0 V
7	4.77 V	57	0 V
8	4.93 V	58	0 V
9	0 V	59	0 V
10	4.86 V	60	0 V
11	2.32 V	61	0 V
12	2.02 V	62	0 V
13	0 V	63	0 V
14	4.77 V	64	0 V
15	0 V	65	0 V
16	4.80 V	66	0 V
17	0 V	67	0 V
18	0 V	68	0 V
19	0 V	69	-30.34 V
20	0 V	70	-30.27 V
21	0 V	71	-30.27 V
22	4.78 V	72	-30.27 V
23	4.79 V	73	-30.27 V
24	4.98 V	74	-30.27 V
25	0 V	75	-30.27 V
26	4.94 V	76	-30.27 V
27	0 V	77	-30.27 V
28	5.04 V	78	-30.28 V
29	5.05 V	79	-30.42 V
30	0 V	80	-30.27 V
31	5.05 V	81	-30.28 V
32	5.05 V	82	-30.28 V
33	5.05 V	83	-30.28 V
34	4.98 V	84	-30.28 V
35	5.06 V	85	0 V
36	0 V	86	0 V
37	4.95 V	87	-30.28 V
38	5.05 V	88	-30.28 V
39	4.92 V	89	-30.26 V
40	0 V	90	-30.26 V
41	0 V	91	-30.26 V
42	13.40 V	92	-30.26 V
43	13.40 V	93	-30.26 V
44	13.40 V	94	-30.26 V
45	3.48 V	95	-30.26 V
46	4.97 V	96	-30.26 V
47	0 V	97	-30.26 V
48	0 V	98	-30.26 V
49	0 V	99	-30.26 V
50	0 V	100	-30.26 V

IC851	
PIN	VOLTAGE
1	20.80 V
2	1.32 V
3	13.40 V

IC852	
PIN	VOLTAGE
1	20.50 V
2	0 V
3	9.89 V

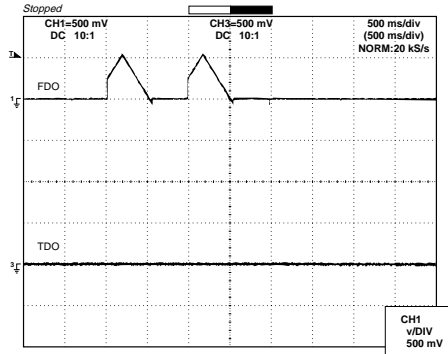
IC853	
PIN	VOLTAGE
1	20.92 V
2	0 V
3	4.94 V

IC854	
PIN	VOLTAGE
1	9.89 V
2	0.61 V
3	5.66 V

IC855	
PIN	VOLTAGE
1	8.22 V
2	13.40 V
3	7.65 V

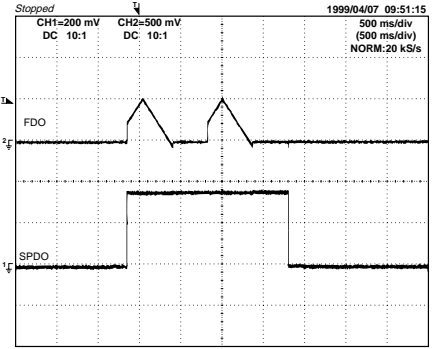
WAVEFORMS OF CD CIRCUIT

1 IC1 (21)



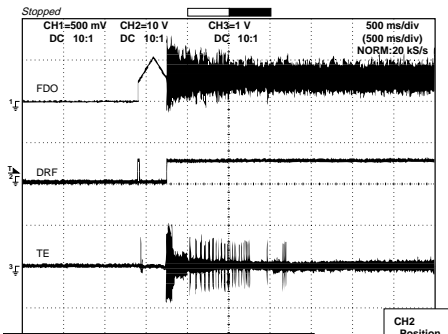
=Filter= =Offset= =Record Length= =Trigger=
 Smoothing: ON CH1: 0.000 V Main: 100 K Mode: AUTO
 BW: FULL CH2: 0.0 V Zoom: 2 K Type: EDGE CH1 \int
 CH3: 0.000 V Delay: 0.0 ns
 CH4: 0.00 V Hold off: 0.2 μ s

1 IC1 (21)



=Filter= =Offset= =Record Length= =Trigger=
 Smoothing: ON CH1: 0.000 V Main: 100 K Mode: NORMAL
 BW: FULL CH2: 0.000 V Zoom: 2 K Type: EDGE CH2 \int
 CH3: 0.00 V Delay: 2.924 ms
 CH4: 0.00 V Hold off: 0.2 μ s

1 IC1 (21)



=Filter= =Offset= =Record Length= =Trigger=
 Smoothing: ON CH1: 0.000 V Main: 100 K Mode: AUTO
 BW: FULL CH2: 0.0 V Zoom: 2 K Type: EDGE CH1 \int
 CH3: 0.00 V Delay: 0.0 ns
 CH4: 0.00 V Hold off: 0.2 μ s

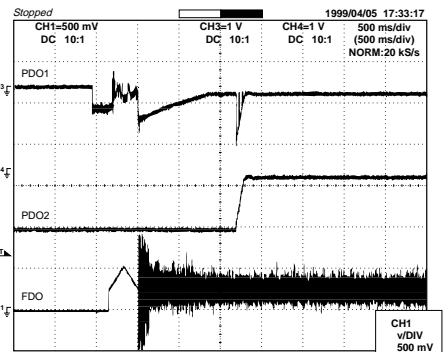
3 IC1 (67)

4 IC1 (15)

7 IC1 (73)

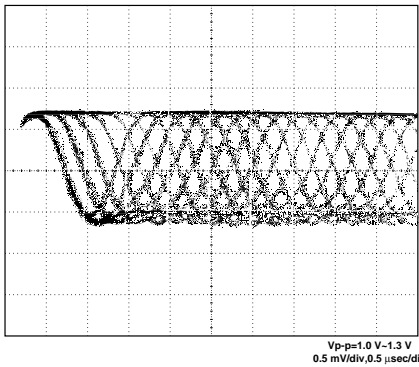
8 IC1 (74)

1 IC1 (21)

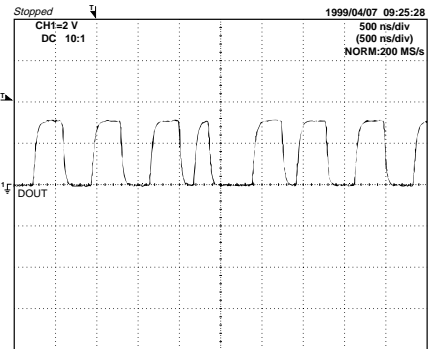


=Filter= =Offset= =Record Length= =Trigger=
 Smoothing: ON CH1: 0.000 V Main: 100 K Mode: AUTO
 BW: FULL CH2: 0.0 V Zoom: 2 K Type: EDGE CH2 \int
 CH3: 0.00 V Delay: 0.0 ns
 CH4: 0.00 V Hold off: 0.2 μ s

5 IC1 (4)



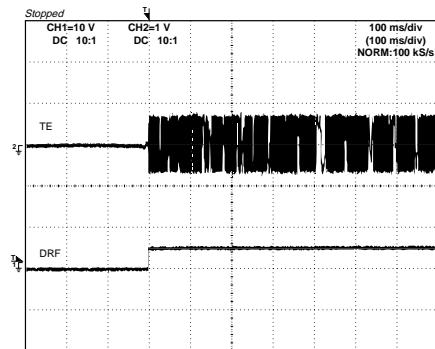
9 IC1 (39)



=Filter= =Offset= =Record Length= =Trigger=
 Smoothing: ON CH1: 0.00 V Main: 1 K Mode: NORMAL
 BW: FULL CH2: 0.00 V Zoom: 100 Type: EDGE CH1 \int
 CH3: 0.00 V Delay: 2.887 ms
 CH4: 0.00 V Hold off: 0.2 μ s

4 IC1 (15)

3 IC1 (67)

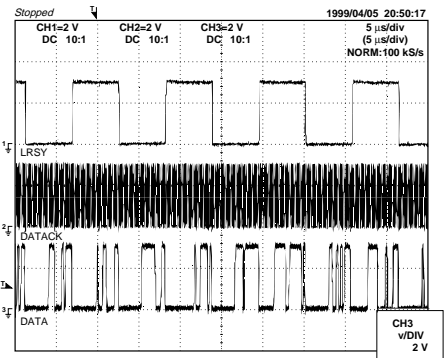


=Filter= =Offset= =Record Length= =Trigger=
 Smoothing: ON CH1: 0.0 V Main: 100 K Mode: NORMAL
 BW: FULL CH2: 0.00 V Zoom: 2 K Type: EDGE CH1 \int
 CH3: 0.00 V Delay: 2.924 ms
 CH4: 0.00 V Hold off: 0.2 μ s

10 IC1 (58)

11 IC1 (59)

12 IC1 (60)



=Filter= =Offset= =Record Length= =Trigger=
 Smoothing: ON CH1: 0.00 V Main: 5 K Mode: AUTO
 BW: FULL CH2: 0.00 V Zoom: 100 Type: EDGE CH3 \int
 CH3: 0.00 V Delay: 0.0 ns
 CH4: 0.00 V Hold off: 0.2 μ s

TROUBLESHOOTING

When the CD does not function

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

Remove the cabinet and follow the trouble shooting instructions.

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

Turn the power off.

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

Do not touch the lens with the bare hand.

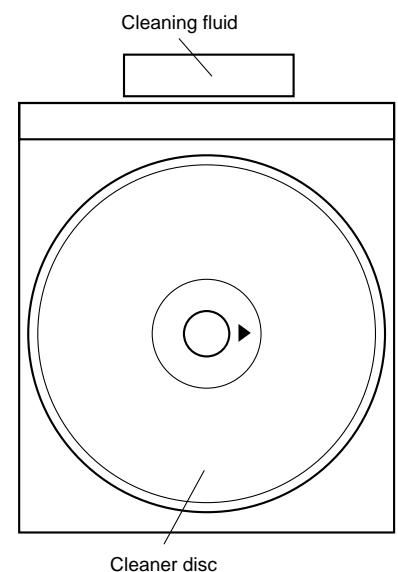
		Parts code
1.	CD optical pickup Lens cleaner disc	UDSKA0004AFZZ

HOW TO USE

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

CAUTION

- The CD lens cleaner should be effective for 30-50 operations, however if the brushes become worn out earlier then please the cleaner disc.
- If the CD cleaner brushes become very wet then wipe off any excess fluid with a soft cloth.
- Do not drink the cleaner fluid or allow it to come in contact with the eyes. In the event of this happening then drink and / or rinse with clean water and seek medical advice.
- The CD cleaner 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 (LC78645NE), 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-XP200/CD-XP2200

(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.

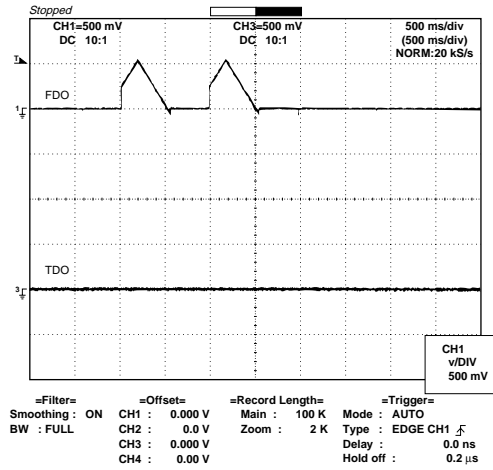
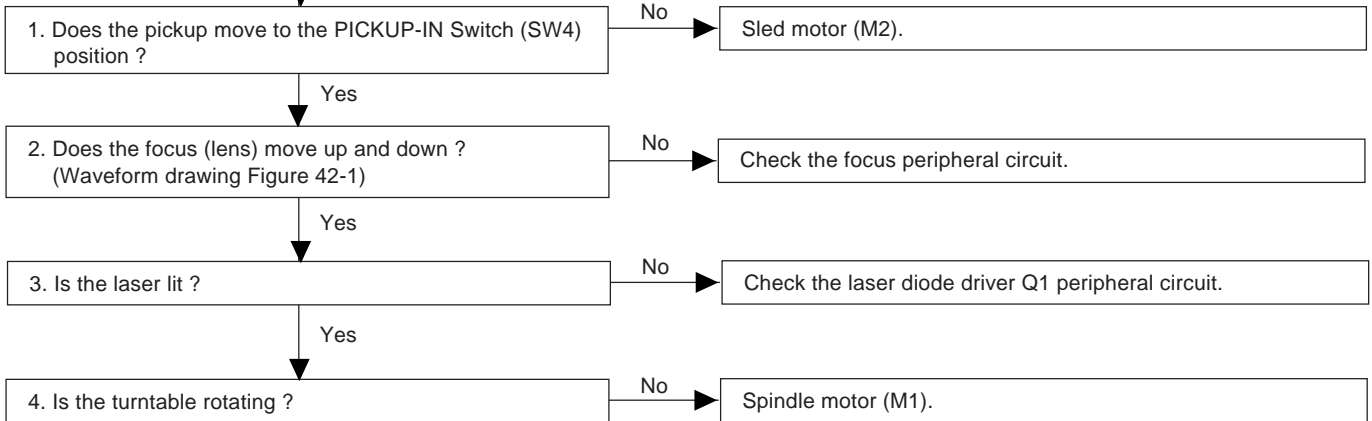


Figure 42-1



When a disc is loaded, start playback operation.

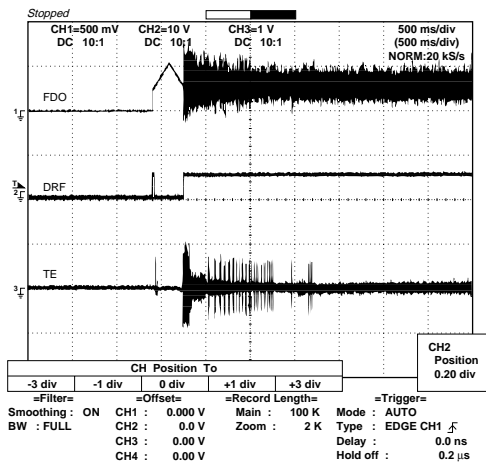
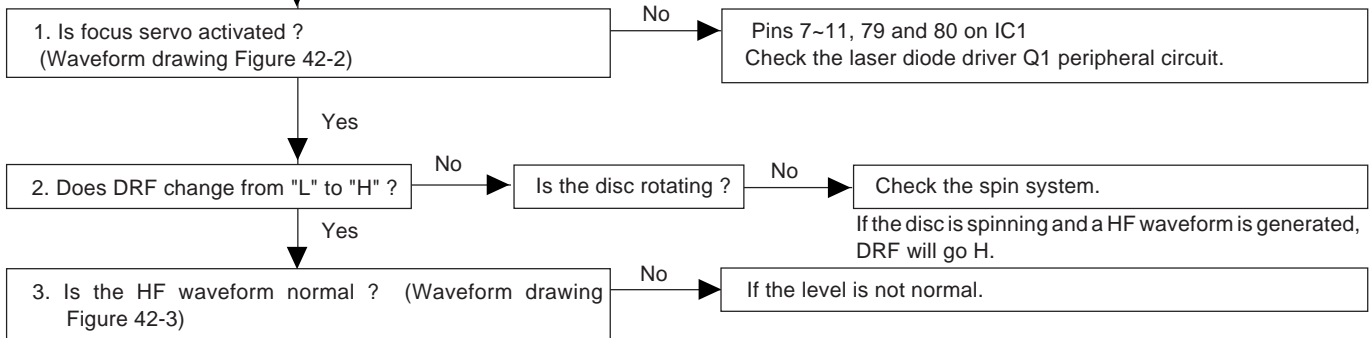


Figure 42-2

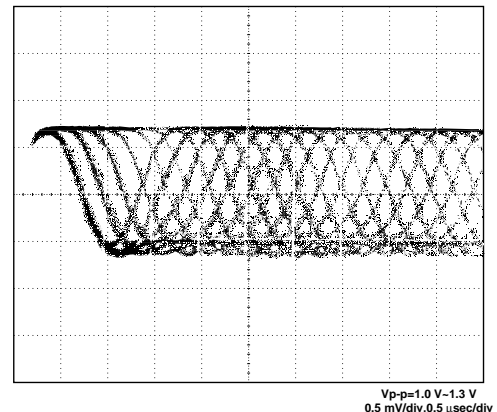


Figure 42-3

(2) Tracking system check.

Check the TE waveform at pin 15 on IC1.

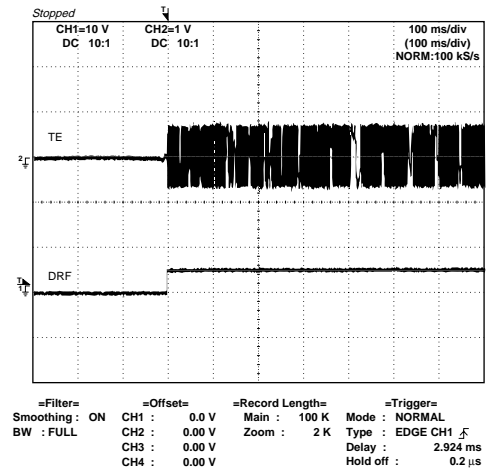
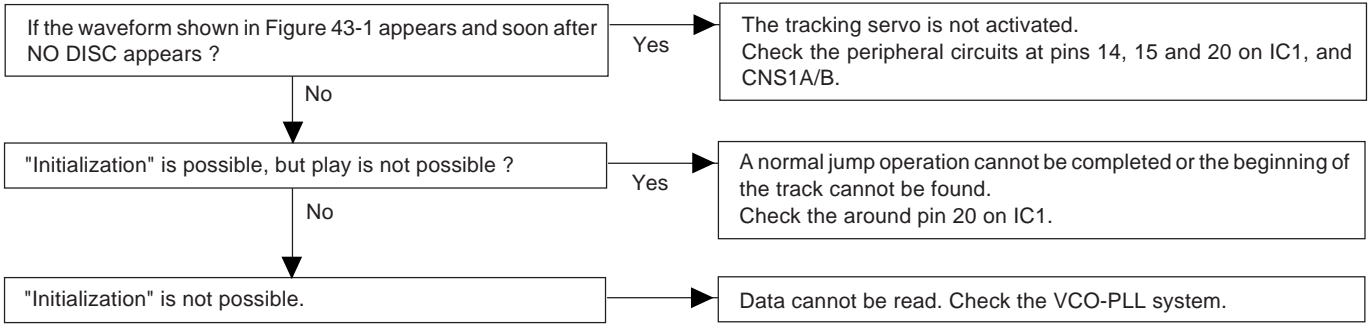


Figure 43-1

(3) Spin system check.

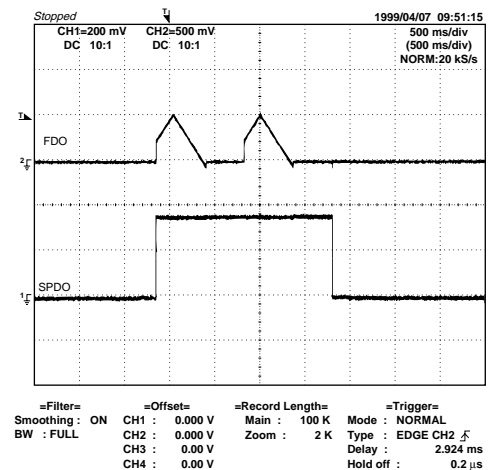
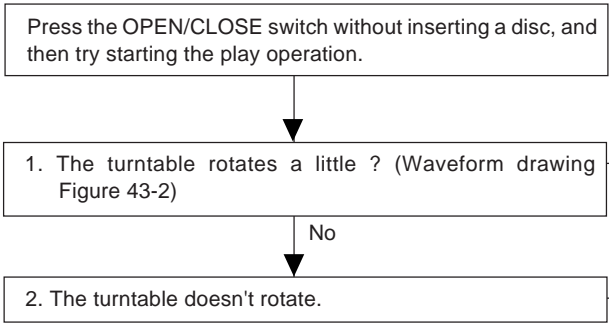


Figure 43-2

CD-XP200/CD-XP2200

(4) PLL system check.

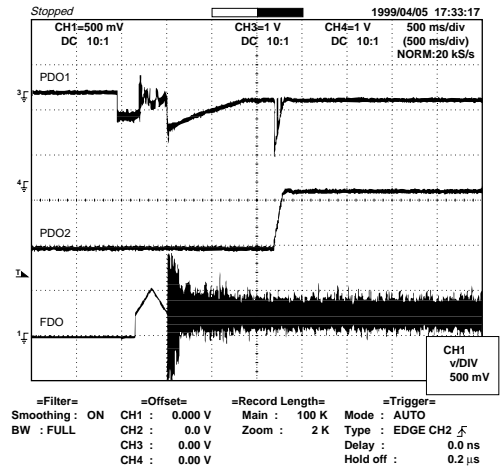
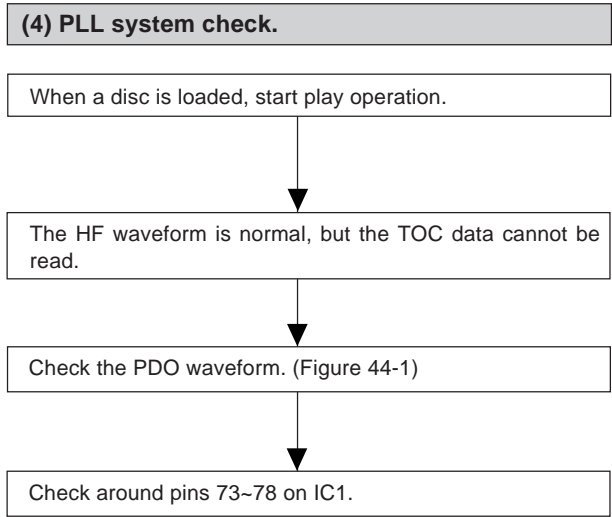


Figure 44-1

(5) Others.

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

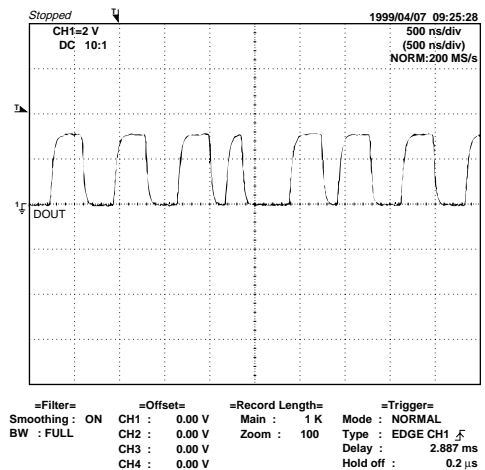
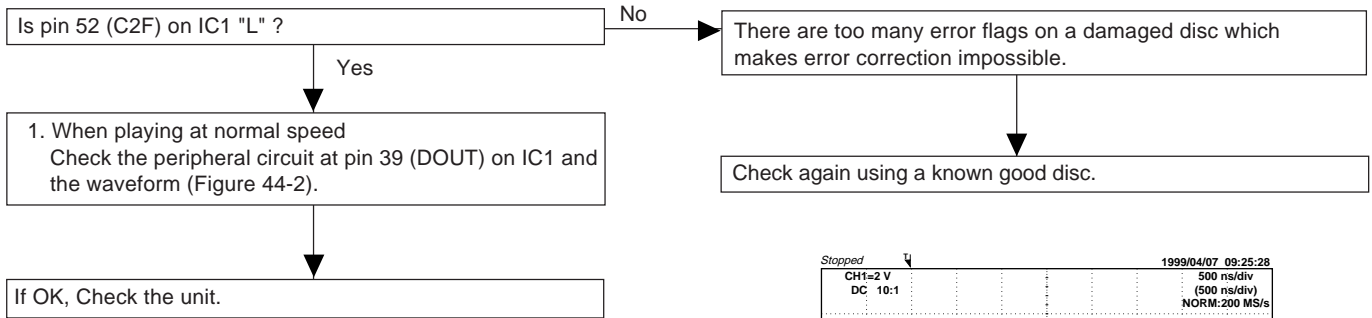


Figure 44-2

FUNCTION TABLE OF IC

IC1 VHiLC78645NE1: CD Servo (LC78645NE) (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	Input	—	A+C signal input terminal.	
8	FIN2	Input	—	B+D signal input terminal.	
9	TIN1	Input	—	E signal input terminal.	
10	TIN2	Input	—	F signal input terminal.	
11	VREF	Output	RFVDD/2	VREF voltage output terminal.	
12	REF1	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*	DOU	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-XP200/CD-XP2200

IC1 VHiLC78645NE1: CD Servo (LC78645NE) (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*	LRCK	Output	L	Digital data	Word clock output port.
59*	BCK	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 VHiLC78645NE1: CD Servo (LC78645NE)

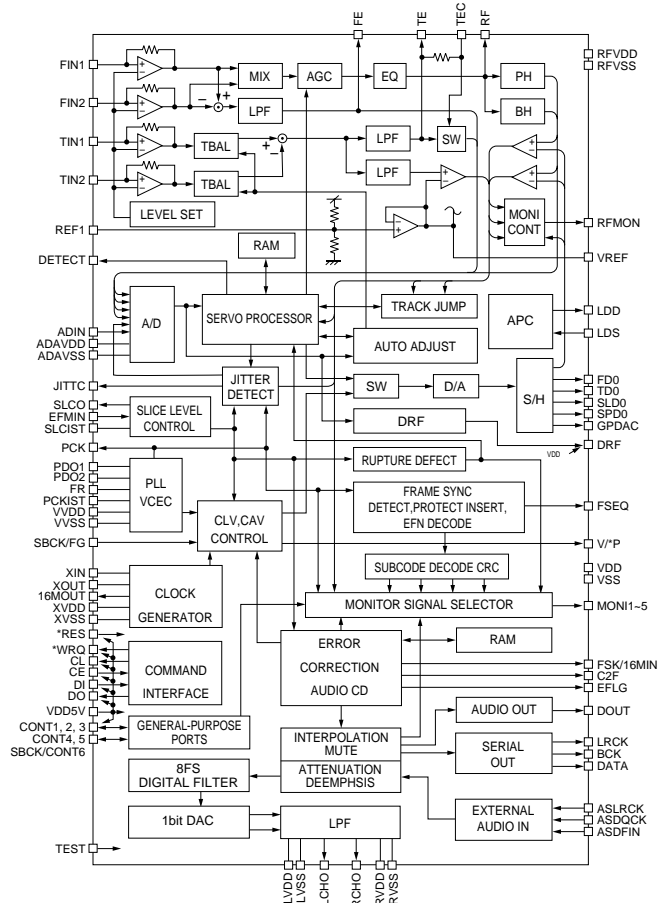
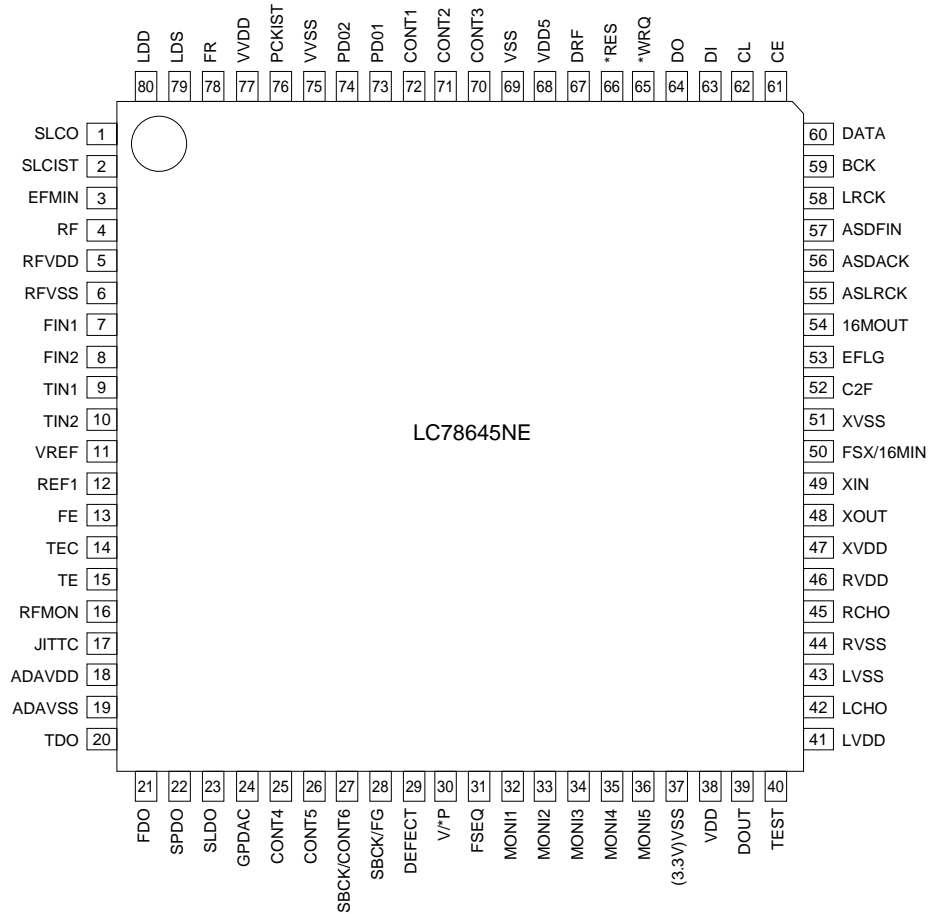


Figure 47 BLOCK DIAGRAM OF IC

IC601 VHiLC75341/-1: Audio Processor (LC75341)

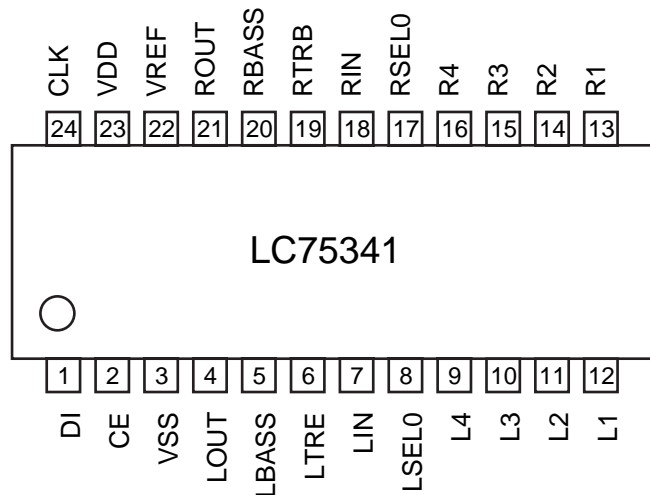
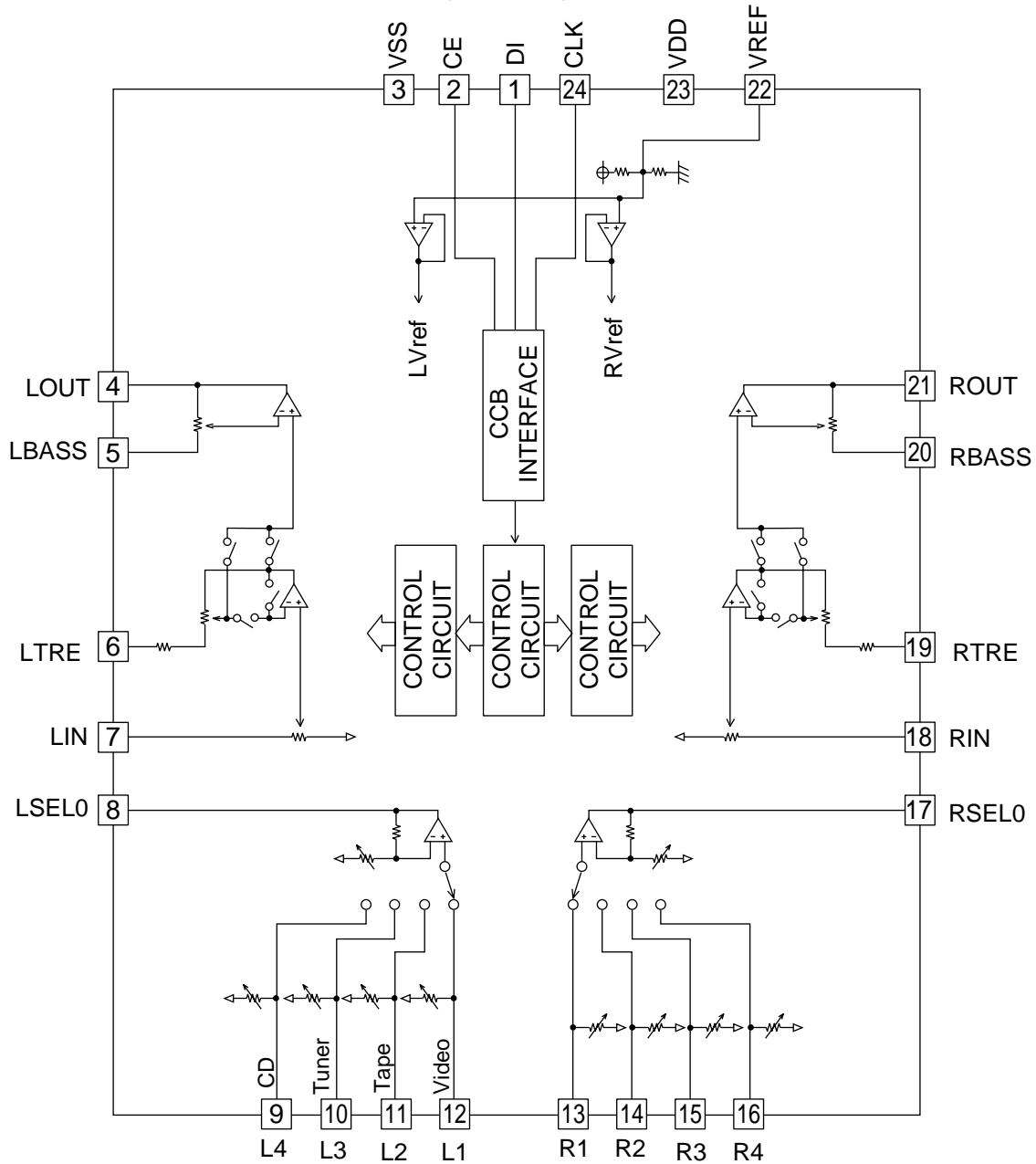


Figure 48 BLOCK DIAGRAM OF IC

IC701 RH-iX0524AWZZ: System Microcomputer (IX0524AW) (1/2)

Pin No.	Port Name	Terminal Name	Input/Output	Function
1	VDD	VDD	Input	(+) Power supply.
2	P37	-20dBATT	Output	-20dB Attenuator.
3*	P36	NO USE	Output	Open
4	P35	T_BIAS	Output	Tape record bias.
5	P34	T_T1/T2	Output	Tape T1/T2 change.
6	P33	T_REC/PLY	Output	Tape REC/PLAY change.
7	P32	CD_RESOUT	Output	CD DSP reset.
8	P31	CD WRQ	Input	CD write read request..
9	P30	NO USE	Input	Connect to GND.
10	RESET	RESET	Input	Reset.
11	X2	X2	Output	Main clock.
12	X1	X1	Input	Main clock.
13	VPP/IC	VPP/IC	—	GND
14*	XT2	XT2	—	Open
15	P04	CD_DRF	Input	CD DRF level detection.
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	P17	D.NO SW	Input	CD DISC No. SW
27*	ANI6	NO USE	Input	Connect to GND.
28	ANI5	PLAY2/FPA/FPB SW	Input	Tape F.P A/B SW & PLAY 2 SW.
29	ANI4	PROTECT	Input	Power abnormal detect.
30*	ANI3	LVL_DET	Input	Speaker output level detect.
31-33	ANI2-ANI0	KEY 2-KEY 0	Input	Key input.
34	AVDD	AVDD	—	Analog VDD.
35	AVREF	AVREF	—	Analog ref voltage.
36	INTP3	P_IN	Input	Power failure detect.
37	P02	CLAMP SW	Input	CD CLAMP SW.
38	INTP1	SP_DET	Input	Speaker abnormal detect.
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	Output	AC relay control.
48	P126	SP_RLY	Output	Speaker relay control.
49	P125	JOG 1	Input	Volume jog input 1.
50	P124	JOG 2	Input	Volume jog input 2.
51	P123	T 2_RUN	Input	TAPE 2 RUN PULSE input.
52	P122	T 1_RUN	Input	TAPE 1 RUN PULSE input.
53*	P121	MONST LED	Output	Monster LED.

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

CD-XP200/CD-XP2200

IC701 RH-iX0524AWZZ: System Microcomputer (IX0524AW) (2/2)

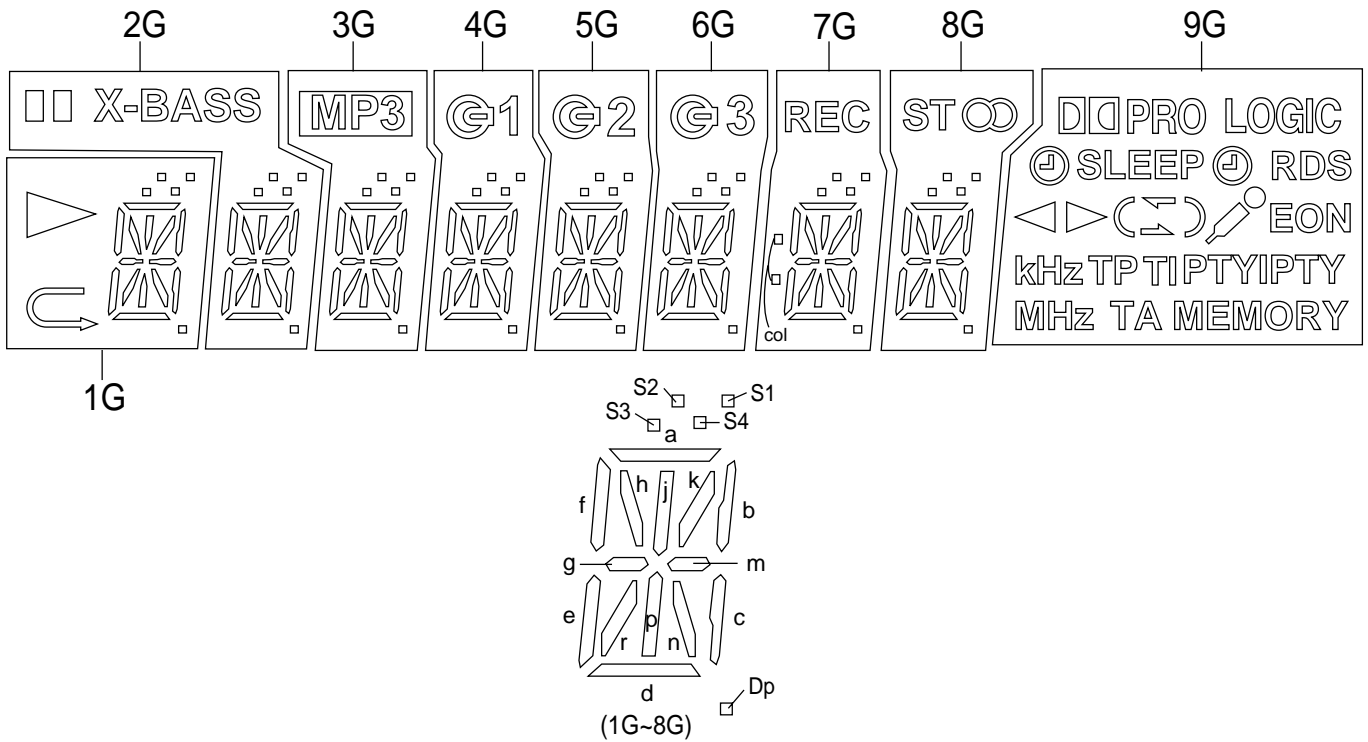
Pin No.	Port Name	Terminal Name	Input/Output	Function
54	P120	O/C SW	Input	CD OPEN/CLOSE SW.
55	P117	MIC SW	Input	Mic switch input.
56*	P116	KARA_LATCH	Output	Karaoke latch. (When not used. Connect to 0 V.)
57*	P115	NO USE	Output	Open
58*	P114	MPEG POWER	Output	MPEG power control.
59*	P113	NO USE	Output	Open
60*	P112	NO USE	Input	Open
61*	P111	NO USE	Output	Open
62*	P110	NO USE	Input	Open
63*	P107	ILU_LED1	Output	Illumination LED1.
64*	P106	ILU_LED2	Output	Illumination LED2.
65*	P105	ILU_LED3	Output	Illumination LED3.
66*	P104	FOR PLY_LED	Output	Forward play LED.
67*	P103	PEV PLY_LED	Output	Reverse play LED.
68*	P102	STOP_LED	Output	Stop LED.
69	FIP30	DIST	Input	Distination input.
70	FIP29	S21	Output	FL segment driver.
71-74	P97-P94	DIST 0-DIST 3	Output	Distination output.
75-78	FIP24-FIP21	S16-S13	Output	FL segment driver.
79	VLOAD	VLOAD	Input	FL driver power supp. -30 V
80-91	FIP20-FIP9	S12-S1	Output	FL segment driver.
92-100	FIP8-FIP0	G9-G1	Output	FL grid driver.

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

FL DISPLAY

FL701 VVKNA09SS29-1

GRID ASSIGNMENT



ANODE CONNECTION

	1G	2G	3G	4G	5G	6G	7G	8G	9G
P1	▶	X-BASS	MP3	G1	G2	G3	col	⊞	PTYI
P2	S1	S1	S1	S1	S1	S1	S1	S1	—
P3	S2	S2	S2	S2	S2	S2	S2	S2	TA
P4	S3	S3	S3	S3	S3	S3	S3	S3	TP
P5	S4	S4	S4	S4	S4	S4	S4	S4	RDS
P6	a	a	a	a	a	a	a	a	TI
P7	b	b	b	b	b	b	b	b	▶
P8	k	k	k	k	k	k	k	k	◀
P9	j	j	j	j	j	j	j	j	MEMORY
P10	h	h	h	h	h	h	h	h	PTY
P11	f	f	f	f	f	f	f	f)
P12	m	m	m	m	m	m	m	m	(
P13	d	d	d	d	d	d	d	d	NHz
P14	g	g	g	g	g	g	g	g	kHz
P15	p	p	p	p	p	p	p	p	EON
P16	e	e	e	e	e	e	e	e	PRO LOGIC
P17	n	n	n	n	n	n	n	n	⏏
P18	r	r	r	r	r	r	r	r	(L) ⊞
P19	c	c	c	c	c	c	c	c	(H) ⊞
P20	Dp	Dp	Dp	Dp	Dp	Dp	Dp	Dp	—
P21	↻	▯▯	—	—	—	—	—	REC	ST
									SLEEP

CD-XP200/CD-XP2200

— M E M O —

SHARP PARTS GUIDE

MINI COMPONENT SYSTEM

MODEL CD-XP200

CD-XP200 Mini Component System consisting of CD-XP200 (main unit) and CP-XP200 (speaker system).

MINI COMPONENT SYSTEM

MODEL CD-XP2200

CD-XP2200 Mini Component System consisting of CD-XP2200 (main unit) and CP-XP2200 (speaker system).

“HOW TO ORDER REPLACEMENT PARTS”

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

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

★ MARK: SPARE PARTS-DELIVERY SECTION

For U.S.A. only

Contact your nearest SHARP Parts Distributor to order.

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

Explanation of capacitors/resistors parts codes

Capacitors

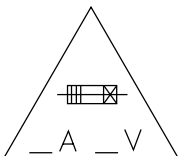
- VCC Ceramic type
- VCK Ceramic type
- VCT Semiconductor type
- VC •• MF Cylindrical type (without lead wire)
- VC •• MN Cylindrical type (without lead wire)
- VC •• TV Square type (without lead wire)
- VC •• TQ Square type (without lead wire)
- VC •• CY Square type (without lead wire)
- VC •• CZ Square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

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

Resistors

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

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



CAUTION:FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE F801, F802 4A, 125V / F803, F804 2A, 125V FUSES

ATTENTION:POUR ASSURER UNE LONGUE PROTECTION CONTRE UNINCENDIE, REMPLACER SEULEMENT PAR UN FUSIBLE DE TYPE F801, F802 4A, 125V / F803, F804 2A, 125V

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-XP200/CD-XP2200

NO.	PART CODE	★ PRICE RANK	DESCRIPTION
CD-XP200/CD-XP2200			
INTEGRATED CIRCUITS			
IC1	VHILC78645NE1	J AY	CD Servo,LC78645NE
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
IC601	VHILC75341/-1	J AM	Audio Processor,LC75341
IC701	RH-IX0524AWZZ	J	System Microcomputer, IX0524AW
IC851	VHIKIA7812AP1	J AF	Voltage Regulator,KIA7812AP
IC852	VHIKIA7810AP1	J AF	Voltage Regulator,KIA7810AP
IC853	VHIKIA7805AP1	J AF	Voltage Regulator,KIA7805AP
IC854	VHIAN78L05/-1	J AE	Voltage Regulator,AN78L05
IC855	VSKTC2026//1	J AF	Silicon,NPN,KTC2026
IC901	VHISTK4029S-1	J BA	Power Amp.,STK4029S
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	VSKTC3200GR-1	J AC	Silicon,NPN,KTC3200 GR
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
Q601~604	VSKTC3199GR-1	J AB	Silicon,NPN,KTC3199 GR
Q705	VSKTC3199GR-1	J AB	Silicon,NPN,KTC3199 GR
Q706~708	VSKTA1273Y/-1	J AE	Silicon,PNP,KTA1273 Y
Q709	VSKRC102M//1	J AC	Digital,NPN,KRC102 M
Q801	VSKTA1274Y/-1	J AE	Silicon,PNP,KTA1274 Y
Q901~905	VSKTC3199GR-1	J AB	Silicon,NPN,KTC3199 GR
Q906	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
D709~715	VHDDS1SS133-1	J AB	Silicon,DS1SS133
D802	VHDD3SBA60F-1	J AG	Silicon,D3SBA60F
D803~806	VHD1N4004S/-1	J AB	Silicon,1N4004S
D851,852	VHDDS1SS133-1	J AB	Silicon,DS1SS133
D856~859	VHDDS1SS133-1	J AB	Silicon,DS1SS133
D905~907	VHDDS1SS133-1	J AB	Silicon,DS1SS133
D911,912	VHDDS1SS133-1	J AB	Silicon,DS1SS133
LED701	VHPSLR342VCJ1	J AC	LED,Red,SLR342VCJ
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
ZD801,802	VHEDZ6R2BSA-1	J AB	Zener,6.2V,DZ6.2BSA
ZD803	VHEDZ300BSB-1	J AB	Zener,30V,DZ30BSB
ZD852	VHEDZ8R2BSB-1	J AB	Zener,8.2V,DZ8.2BSB
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	RTRNP0407AWZZ	J	Power
T301	RCILB0065AWZZ	J AC	FM OSC.
T302	RCILIO017AWZZ	J AB	FM IF
T303	RCILA0052AWZZ	J AE	AM Antenna
T306	RCILB0067AWZZ	J AD	AM OSC.

NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
T351	RCILIO019AWZZ	J AD	AM IF
COILS			
L1	VP-XHR82K0000	J AC	0.82 μH,Choke
L103	VP-MK331K0000	J AB	330 μH,Choke
L312	RCILR0056AWZZ	J AB	FM RF
L351,352	VP-DH101K0000	J AB	100 μH,Choke
L701	VP-DH101K0000	J AB	100 μH,Choke
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	RCRSP0019AWZZ	J AF	Crystal,4.5 MHz
XL1	RCRM-0041AWZZ	J AF	Ceramic,33.8688 MHz
XL700	RCRSP0003AWZZ	J AH	Crystal,4.19403 MHz
CAPACITORS			
C1	VCEAZA1EW476M	J AB	47 μF,25V,Electrolytic
C2	VCKYCY1CB103K	J AA	0.01 μF,16V
C3	VCEAZA1EW476M	J AB	47 μF,25V,Electrolytic
C4	VCKYCY1HB102K	J AA	0.001 μF,50V
C5	VCKYCY1HB473K	J AB	0.047 μF,50V
C6	VCKYCY1CB104K	J AB	0.1 μF,16V
C8	VCKYCY1HB272K	J AA	0.0027 μF,50V
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	VCCCCY1HH101J	J AA	100 pF (CH),50V
C13	VCKYCY1EF223Z	J AB	0.022 μF,25V
C14	RC-EZY107AF1A	J AB	100 μF,10V,Electrolytic
C16	RC-EZY337AF0J	J AA	330 μF,6.3V,Electrolytic
C18	RC-EZY107AF1A	J AB	100 μF,10V,Electrolytic
C22	VCKYCY1CB103K	J AA	0.01 μF,16V
C23,24	RC-EZY106AF1E	J AB	10 μF,25V,Electrolytic
C25,26	VCKYCY1HB152K	J AA	0.0015 μF,50V
C27	VCKYCY1EF223Z	J AB	0.022 μF,25V
C28	VCCCCY1HH101J	J AA	100 pF (CH),50V
C30	VCCCCY1HH101J	J AA	100 pF (CH),50V
C32	VCCCCY1HH101J	J AA	100 pF (CH),50V
C33	VCKYCY1EF223Z	J AB	0.022 μF,25V
C34	VCCCCY1HH101J	J AA	100 pF (CH),50V
C35	VCKYCY1HB473K	J AB	0.047 μF,50V
C36	VCEAZA1HW224M	J AB	0.22 μF,50V,Electrolytic
C37	VCTYPA1CX104K	J AB	0.1 μF,16V
C38	VCKYCY1CB103K	J AA	0.01 μF,16V
C39	RC-EZY107AF1A	J AB	100 μF,10V,Electrolytic
C40	VCEAZA0JW227M	J AC	220 μF,6.3V,Electrolytic
C41	VCEAZA1AW107M	J AB	100 μF,10V,Electrolytic
C42	VCKYCY1CB103K	J AA	0.01 μF,16V
C44	VCKYCY1HB102K	J AA	0.001 μF,50V
C46	VCEAZA1AW107M	J AB	100 μF,10V,Electrolytic
C48	VCKYCY1EF223Z	J AB	0.022 μF,25V
C50	VCCCCY1HH220J	J AA	22 pF (CH),50V
C51	VCKZPA1HF223Z	J AA	0.022 μF,50V
C52,53	VCKYCY1HB102K	J AA	0.001 μF,50V
C54	VCKYCY1EF223Z	J AB	0.022 μF,25V
C57	VCCCCY1HH560J	J AA	56 pF (CH),50V
C101,102	VCKYMN1HB561K	J AA	560 pF,50V
C103	VCKYBT1HB181K	J AA	180 pF,50V
C104	VCKYMN1HB181K	J AA	180 pF,50V
C105,106	VCKYMN1HB561K	J AA	560 pF,50V
C107~110	VCKYMN1HB331K	J AA	330 pF,50V
C111,112	VCEAZA1EW107M	J AB	100 μF,25V,Electrolytic
C113,114	VCTYPA1EX333K	J AA	0.033 μF,25V
C115,116	VCKYMN1HB561K	J AA	560 pF,50V
C117,118	VCEAZA1EW476M	J AB	47 μF,25V,Electrolytic
C119,120	VCTYMN1CX222K	J AA	0.0022 μF,16V
C121	VCTYMN1EF223Z	J AA	0.022 μF,25V
C123,124	VCKYMN1HB271K	J AA	270 pF,50V
C125,126	VCEAZA1HW226M	J AB	22 μF,50V,Electrolytic
C127,128	VCTYPA1CX223K	J AA	0.022 μF,16V
C129,130	VCTYMN1CX332K	J AA	0.0033 μF,16V
C131,132	VCEAZA1EW476M	J AB	47 μF,25V,Electrolytic

NO.	PART CODE	★ PRICE RANK	DESCRIPTION	NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
C133	VCEAZA1HW226M	J AB	22 μF,50V,Electrolytic	C625,626	VCTYMN1CX222K	J AA	0.0022 μF,16V
C134	VCEAZA1AW227M	J AC	220 μF,10V,Electrolytic	C635-638	VCKYMN1HB102K	J AA	0.001 μF,50V
C135	VCTYMN1EF223Z	J AA	0.022 μF,25V	C639,640	VCEAZA1HW105M	J AB	1 μF,50V,Electrolytic
C136	VCKZPA1HF223Z	J AA	0.022 μF,50V	C651-653	VCKYMN1HB221K	J AA	220 pF,50V
C137	VCQYKA1HM473K	J AB	0.047 μF,50V,Mylar	C690,691	VCKYMN1HB391K	J AA	390 pF,50V
C138	VCQPKA2AA822J	J AA	0.0082 μF,100V,Polypropylene	C701	VCEAZA1HW105M	J AB	1 μF,50V,Electrolytic
C139	VCQYKA1HM393K	J AB	0.039 μF,50V,Mylar	C702	VCEAZA1AW227M	J AC	220 μF,10V,Electrolytic
C140	VCEAZA1EW476M	J AB	47 μF,25V,Electrolytic	C703	VCTYMN1EF223Z	J AA	0.022 μF,25V
C141	VCEAZA1CW107M	J AC	100 μF,16V,Electrolytic	C704	VCCSMN1HL150J	J AA	15 pF,50V
C143	VCEAZA1HW335M	J AB	3.3 μF,50V,Electrolytic	C705	VCCSMN1HL180J	J AA	18 pF,50V
C302	VCKYMN1HB102K	J AA	0.001 μF,50V	C706	VCEAZA1EW476M	J AB	47 μF,25V,Electrolytic
C303	VCCCMN1HH100J	J AA	10 pF (CH),50V	C707	VCEAZA1HW105M	J AB	1 μF,50V,Electrolytic
C304	VCTYMN1CY103N	J AA	0.01 μF,16V	C712	VCEAZA1EW476M	J AB	47 μF,25V,Electrolytic
C305	VCCCMN1HH4R7C	J AA	4.7 pF (CH),50V	C714	VCEAZA1HW335M	J AB	3.3 μF,50V,Electrolytic
C306	VCTYMN1EF223Z	J AA	0.022 μF,25V	C715	VCTYMN1EF103Z	J AB	0.01 μF,25V
C307	VCEAZA1HW106M	J AB	10 μF,50V,Electrolytic	C716	VCTYMN1EF223Z	J AA	0.022 μF,25V
C308	VCCCMN1HH4R7C	J AA	4.7 pF (CH),50V	C717	VCEAZA1EW476M	J AB	47 μF,25V,Electrolytic
C309	VCKYMN1HB102K	J AA	0.001 μF,50V	C720	VCTYBT1EF223Z	J AA	0.022 μF,25V
C310	VCCCMN1HH150J	J AA	15 pF (CH),50V	C801	VCEAZA1VW107M	J AC	100 μF,35V,Electrolytic
C311	VCCSMN1HL180J	J AA	18 pF,50V	C802,803	VCEAZA1HW476M	J AB	47 μF,50V,Electrolytic
C312	VCTYMN1EF223Z	J AA	0.022 μF,25V	C804	VCEAZV1JW227M	J AC	220 μF,63V,Electrolytic
C313	VCCCMN1HH220J	J AA	22 pF (CH),50V	C805	VCEAZA2AW226M	J	22 μF,100V,Electrolytic
C314,315	VCTYMN1CX472K	J AA	0.0047 μF,16V	C806-809	VCQYKA1HM104K	J AB	0.1 μF,50V,Mylar
C316	VCTYMN1EF223Z	J AA	0.022 μF,25V	C851	VCQYKA1HM473K	J AB	0.047 μF,50V,Mylar
C317	VCKYMN1HB102K	J AA	0.001 μF,50V	C852	VCEAZA1HW226M	J AB	22 μF,50V,Electrolytic
C318	VCKYMN1HB101K	J AA	100 pF,50V	C853	VCEAZA1EW476M	J AB	47 μF,25V,Electrolytic
C320	VCKYBT1HB102K	J AA	0.001 μF,50V	C854,855	VCQYKA1HM104K	J AB	0.1 μF,50V,Mylar
C323	VCTYMN1EF223Z	J AA	0.022 μF,25V	C856	VCEAZV1VW338M	J AH	3300 μF,35V,Electrolytic
C324	VCCUMN1HJ4R7D	J AA	4.7 pF (UJ),50V	C857	VCEAZA1EW476M	J AB	47 μF,25V,Electrolytic
C330	VCCUMN1HJ150J	J AA	15 pF (UJ),50V	C858	VCTYMN1EF223Z	J AA	0.022 μF,25V
C331	VCKZPA1HF473Z	J AA	0.047 μF,50V	C859	VCQYKA1HM104K	J AB	0.1 μF,50V,Mylar
C332	VCTYMN1EF223Z	J AA	0.022 μF,25V	C860	VCEAZA1EW476M	J AB	47 μF,25V,Electrolytic
C334	VCCUMN1HJ220J	J AA	22 pF (UJ),50V	C861	VCQYKA1HM473K	J AB	0.047 μF,50V,Mylar
C335	VCKYMN1HB561K	J AA	560 pF,50V	C862	VCEAZA1HW106M	J AB	10 μF,50V,Electrolytic
C338	VCKYMN1HB102K	J AA	0.001 μF,50V	C863	VCEAZA1HW226M	J AB	22 μF,50V,Electrolytic
C342	VCTYMN1EF223Z	J AA	0.022 μF,25V	C864	VCQYKA1HM104K	J AB	0.1 μF,50V,Mylar
C350	VCKZPA1HF223Z	J AA	0.022 μF,50V	C865	VCEAZA1HW106M	J AB	10 μF,50V,Electrolytic
C351	VCTYMN1EF223Z	J AA	0.022 μF,25V	C901,902	VCEAZA1HW224M	J AB	0.22 μF,50V,Electrolytic
C352	VCEAZA1HW106M	J AB	10 μF,50V,Electrolytic	C903,904	VCKYMN1HB102K	J AA	0.001 μF,50V
C353,354	VCTYMN1EF223Z	J AA	0.022 μF,25V	C905,906	VCCCMN1HH3R3C	J AA	3.3 pF (CH),50V
C355	VCCSMN1HL220J	J AA	22 pF,50V	C907,908	VCKYMN1HB101K	J AA	100 pF,50V
C356	VCKYMN1HB102K	J AA	0.001 μF,50V	C909,910	VCEAZA1HW475M	J AB	4.7 μF,50V,Electrolytic
C357	VCEAZA1HW225M	J AB	2.2 μF,50V,Electrolytic	C911	VCKZPA1HF223Z	J AA	0.022 μF,50V
C358	VCEAZA1HW105M	J AB	1 μF,50V,Electrolytic	C912	VCTYMN1EF223Z	J AA	0.022 μF,25V
C361	VCTYMN1EF223Z	J AA	0.022 μF,25V	C913,914	VCEAZV1JW107M	J AC	100 μF,63V,Electrolytic
C362	VCEAZA1HW335M	J AB	3.3 μF,50V,Electrolytic	C915,916	VCEAZA1JW106M	J	10 μF,63V,Electrolytic
C363	VCTYMN1EF223Z	J AA	0.022 μF,25V	C925	VCEAZA1HW476M	J AB	47 μF,50V,Electrolytic
C364	VCEAZA1HW225M	J AB	2.2 μF,50V,Electrolytic	C928,929	VCQYKA1HM104K	J AB	0.1 μF,50V,Mylar
C365	VCKZPA1HF223Z	J AA	0.022 μF,50V	C930	VCEAZA1HW476M	J AB	47 μF,50V,Electrolytic
C366	VCKYMN1HB102K	J AA	0.001 μF,50V	C931	VCEAZA1HW106M	J AB	10 μF,50V,Electrolytic
C367,368	VCEAZA1HW105M	J AB	1 μF,50V,Electrolytic	C932	VCFYDA1HA224J	J AB	0.22 μF,50V,Polyester
C369	VCCUMN1HJ270J	J AA	27 pF (UJ),50V	C948,949	RC-EZ0064AWZZ	J AM	2200 μF,63V,Electrolytic
C370-372	VCEAZA1HW105M	J AB	1 μF,50V,Electrolytic				
C373,374	VCTYPA1CX153K	J AA	0.015 μF,16V				
C380	VCEAZA1HW106M	J AB	10 μF,50V,Electrolytic				
C381	VCCCMN1HH120J	J AA	12 pF (CH),50V				
C382	VCCCMN1HH150J	J AA	15 pF (CH),50V				
C383	VCCSBT1HL560J	J AA	56 pF,50V				
C384	VCKYMN1HB102K	J AA	0.001 μF,50V				
C385	VCTYMN1CY103N	J AA	0.01 μF,16V				
C386	VCKYMN1HB331K	J AA	330 pF,50V				
C387	VCTYMN1EF223Z	J AA	0.022 μF,25V				
C388	VCKYMN1HB102K	J AA	0.001 μF,50V				
C389	VCEAZA1HW105M	J AB	1 μF,50V,Electrolytic				
C391	VCEAZA1EW476M	J AB	47 μF,25V,Electrolytic				
C392	VCKYMN1HB102K	J AA	0.001 μF,50V				
C393	VCKYBT1HB102K	J AA	0.001 μF,50V				
C394	VCEAZA1EW476M	J AB	47 μF,25V,Electrolytic				
C395	VCTYMN1EF223Z	J AA	0.022 μF,25V				
C396	VCEAZA1AW107M	J AB	100 μF,10V,Electrolytic				
C397	VCTYMN1EF223Z	J AA	0.022 μF,25V				
C398	VCEAZA1AW107M	J AB	100 μF,10V,Electrolytic				
C399	VCTYMN1EF223Z	J AA	0.022 μF,25V				
C601	VCEAZA1CW227M	J AC	220 μF,16V,Electrolytic				
C602	VCTYMN1EF223Z	J AA	0.022 μF,25V				
C603	VCEAZA1HW226M	J AB	22 μF,50V,Electrolytic				
C605-608	VCFYHA1HA104J	J AB	0.1 μF,50V,Thin Film				
C609,610	VCEAZA1HW105M	J AB	1 μF,50V,Electrolytic				
C611,612	VCTYMN1CX222K	J AA	0.0022 μF,16V				
C613,614	VCEAZA1HW105M	J AB	1 μF,50V,Electrolytic				
C615,616	VCEAZA1HW475M	J AB	4.7 μF,50V,Electrolytic				
C617-624	VCEAZA1HW105M	J AB	1 μF,50V,Electrolytic				

RESISTORS

	VRD-MN2BD000C	J AA	0 ohm,Jumper,ø1.4×3.5mm,Ivory
	VRS-CY1JB000J	J AA	0 ohm,Jumper,0.8×1.55mm,Green
R1,2	VRS-CY1JB822J	J AA	8.2 kohms,1/16W
R3	VRS-CY1JB223J	J AA	22 kohms,1/16W
R4,5	VRS-CY1JB822J	J AA	8.2 kohms,1/16W
R6	VRS-CY1JB223J	J AA	22 kohms,1/16W
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	VRS-CY1JB103J	J AA	10 kohm,1/16W
R12	VRS-CY1JB331J	J AA	330 ohms,1/16W
R13-18	VRS-CY1JB102J	J AA	1 kohm,1/16W
R20	VRS-CY1JB103J	J AA	10 kohm,1/16W
R22	VRD-ST2CD101J	J AA	100 ohm,1/6W
R23	VRS-CY1JB221J	J AA	220 ohms,1/16W
R24,25	VRS-CY1JB222J	J AA	2.2 kohms,1/16W
R26,27	VRS-CY1JB103J	J AA	10 kohm,1/16W
R28,29	VRD-ST2CD222J	J AA	2.2 kohms,1/6W
R31	VRS-CY1JB102J	J AA	1 kohm,1/16W
R32-38	VRD-ST2CD102J	J AA	1 kohm,1/6W
R39,40	VRS-CY1JB681J	J AA	680 ohms,1/16W
R41	VRS-CY1JB123J	J AA	12 kohms,1/16W
R42	VRS-CY1JB122J	J AA	1.2 kohms,1/16W
R43	VRS-CY1JB221J	J AA	220 ohms,1/16W
R44	VRD-ST2CD123J	J AA	12 kohms,1/6W
R45,46	VRD-ST2CD821J	J AA	820 ohms,1/6W
R47	VRS-CY1JB101J	J AA	100 ohm,1/16W

CD-XP200/CD-XP2200

NO.	PART CODE	★ PRICE RANK	DESCRIPTION	NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
R49	VRD-ST2EE1R0J	J AA	1 ohm,1/4W	R612,613	VRD-MN2BD391J	J AA	390 ohms,1/8W
△ R51	VRG-ST2EG3R3J	J AB	3.3 ohms,1/4W,Fusible	R614,615	VRD-MN2BD472J	J AA	4.7 kohms,1/8W
R101,102	VRD-MN2BD102J	J AA	1 kohm,1/8W	R616	VRD-MN2BD222J	J AA	2.2 kohms,1/8W
R103,104	VRD-MN2BD222J	J AA	2.2 kohms,1/8W	R617	VRD-ST2CD222J	J AA	2.2 kohms,1/6W
R105,106	VRD-MN2BD332J	J AA	3.3 kohms,1/8W	R618,619	VRD-ST2CD331J	J AA	330 ohms,1/6W
R107,108	VRD-MN2BD473J	J AA	47 kohms,1/8W	R620,621	VRD-MN2BD223J	J AA	22 kohms,1/8W
R109,110	VRD-MN2BD472J	J AA	4.7 kohms,1/8W	R690,691	VRD-MN2BD682J	J AA	6.8 kohms,1/8W
R111	VRD-ST2CD153J	J AA	15 kohms,1/6W	R692,693	VRD-MN2BD333J	J AA	33 kohms,1/8W
R112	VRD-MN2BD153J	J AA	15 kohms,1/8W	R702-705	VRD-MN2BD102J	J AA	1 kohm,1/8W
R113,114	VRD-ST2CD102J	J AA	1 kohm,1/6W	R706	VRD-ST2CD102J	J AA	1 kohm,1/6W
R115,116	VRD-ST2CD560J	J AA	56 ohms,1/6W	R708	VRD-ST2CD102J	J AA	1 kohm,1/6W
R117,118	VRD-MN2BD104J	J AA	100 kohm,1/8W	R709-715	VRD-MN2BD102J	J AA	1 kohm,1/8W
R119,120	VRD-MN2BD392J	J AA	3.9 kohms,1/8W	R716	VRD-ST2CD102J	J AA	1 kohm,1/6W
R121,122	VRD-MN2BD103J	J AA	10 kohm,1/8W	R717	VRD-ST2CD101J	J AA	100 ohm,1/6W
R123,124	VRD-MN2BD562J	J AA	5.6 kohms,1/8W	R718	VRD-MN2BD102J	J AA	1 kohm,1/8W
R126,127	VRD-MN2BD472J	J AA	4.7 kohms,1/8W	R719	VRD-ST2CD102J	J AA	1 kohm,1/6W
R128,129	VRD-MN2BD562J	J AA	5.6 kohms,1/8W	R720-722	VRD-MN2BD102J	J AA	1 kohm,1/8W
R130,131	VRD-MN2BD152J	J AA	1.5 kohms,1/8W	R724,725	VRD-ST2CD102J	J AA	1 kohm,1/6W
R132,133	VRD-MN2BD101J	J AA	100 ohm,1/8W	R726,727	VRD-ST2CD681J	J AA	680 ohms,1/6W
R134,135	VRD-MN2BD103J	J AA	10 kohm,1/8W	R728	VRD-ST2CD222J	J AA	2.2 kohms,1/6W
R136,137	VRD-ST2CD224J	J AA	220 kohms,1/6W	R729	VRD-ST2CD561J	J AA	560 ohms,1/6W
R138	VRD-ST2CD103J	J AA	10 kohm,1/6W	R730	VRD-MN2BD102J	J AA	1 kohm,1/8W
R139	VRD-MN2BD103J	J AA	10 kohm,1/8W	R731	VRD-MN2BD103J	J AA	10 kohm,1/8W
R140	VRD-MN2BD473J	J AA	47 kohms,1/8W	R732	VRD-MN2BD102J	J AA	1 kohm,1/8W
R141	VRD-ST2CD472J	J AA	4.7 kohms,1/6W	R733-736	VRD-ST2CD102J	J AA	1 kohm,1/6W
R142	VRD-RT2HD820J	J AA	82 ohms,1/2W	R738	VRD-ST2CD473J	J AA	47 kohms,1/6W
R143	VRD-MN2BD473J	J AA	47 kohms,1/8W	R739	VRD-ST2CD102J	J AA	1 kohm,1/6W
R144	VRD-MN2BD223J	J AA	22 kohms,1/8W	R740	VRD-ST2CD472J	J AA	4.7 kohms,1/6W
R145	VRD-ST2CD4R7J	J AA	4.7 ohms,1/6W	R746	VRD-ST2CD102J	J AA	1 kohm,1/6W
R146,147	VRD-MN2BD103J	J AA	10 kohm,1/8W	R747	VRD-MN2BD472J	J AA	4.7 kohms,1/8W
R148	VRD-MN2BD472J	J AA	4.7 kohms,1/8W	R752	VRD-ST2CD330J	J AA	33 ohms,1/6W
R149	VRD-ST2EE151J	J AA	150 ohms,1/4W	R756	VRD-MN2BD472J	J AA	4.7 kohms,1/8W
R150	VRD-MN2BD683J	J AA	68 kohms,1/8W	R759	VRD-ST2CD562J	J AA	5.6 kohms,1/6W
R158	VRD-ST2EE221J	J AA	220 ohms,1/4W	R761,762	VRD-MN2BD103J	J AA	10 kohm,1/8W
R302	VRD-MN2BD100J	J AA	10 ohm,1/8W	R763	VRD-MN2BD102J	J AA	1 kohm,1/8W
R309	VRD-ST2CD103J	J AA	10 kohm,1/6W	R765	VRD-ST2CD472J	J AA	4.7 kohms,1/6W
R311	VRD-MN2BD104J	J AA	100 kohm,1/8W	R766-768	VRD-MN2BD103J	J AA	10 kohm,1/8W
R313	VRD-MN2BD333J	J AA	33 kohms,1/8W	R769	VRD-MN2BD102J	J AA	1 kohm,1/8W
R314	VRD-ST2CD220J	J AA	22 ohms,1/6W	R770	VRD-ST2CD103J	J AA	10 kohm,1/6W
R316	VRD-MN2BD472J	J AA	4.7 kohms,1/8W	R772,773	VRD-MN2BD103J	J AA	10 kohm,1/8W
R322	VRD-MN2BD681J	J AA	680 ohms,1/8W	R777-780	VRD-MN2BD103J	J AA	10 kohm,1/8W
R323	VRD-MN2BD683J	J AA	68 kohms,1/8W	R781	VRD-MN2BD473J	J AA	47 kohms,1/8W
R325	VRD-MN2BD473J	J AA	47 kohms,1/8W	R782	VRD-MN2BD104J	J AA	100 kohm,1/8W
R327	VRD-MN2BD330J	J AA	33 ohms,1/8W	R783	VRD-MN2BD101J	J AA	100 ohm,1/8W
R336	VRD-MN2BD103J	J AA	10 kohm,1/8W	R791	VRD-MN2BD472J	J AA	4.7 kohms,1/8W
R350	VRD-MN2BD272J	J AA	2.7 kohms,1/8W	R792	VRD-ST2CD104J	J AA	100 kohm,1/6W
R351	VRD-MN2BD562J	J AA	5.6 kohms,1/8W	R793	VRD-MN2BD102J	J AA	1 kohm,1/8W
R352	VRD-MN2BD102J	J AA	1 kohm,1/8W	R794,795	VRD-ST2EE1R5J	J AA	1.5 ohms,1/4W
R353	VRD-MN2BD271J	J AA	270 ohms,1/8W	R801	VRD-ST2CD224J	J AA	220 kohms,1/6W
R355	VRD-MN2BD332J	J AA	3.3 kohms,1/8W	R802	VRD-ST2CD473J	J AA	47 kohms,1/6W
R356	VRD-MN2BD102J	J AA	1 kohm,1/8W	R803	VRD-ST2CD123J	J AA	12 kohms,1/6W
R357	VRD-ST2CD474J	J AA	470 kohms,1/6W	R804,805	VRD-ST2EE470J	J AA	47 ohms,1/4W
R358	VRD-ST2CD392J	J AA	3.9 kohms,1/6W	R806	VRD-ST2CD473J	J AA	47 kohms,1/6W
R359	VRD-MN2BD182J	J AA	1.8 kohms,1/8W	R807	VRD-ST2EE100J	J AA	10 ohm,1/4W
R360	VRD-MN2BD472J	J AA	4.7 kohms,1/8W	R808	VRD-RT2HD222J	J AA	2.2 kohms,1/2W
R361,362	VRD-MN2BD103J	J AA	10 kohm,1/8W	R852	VRD-MN2BD103J	J AA	10 kohm,1/8W
R363,364	VRD-MN2BD682J	J AA	6.8 kohms,1/8W	R853,854	VRD-ST2CD223J	J AA	22 kohms,1/6W
R365	VRD-MN2BD103J	J AA	10 kohm,1/8W	R856,857	VRD-RT2HD3R3J	J AA	3.3 ohms,1/2W
R372-374	VRD-MN2BD102J	J AA	1 kohm,1/8W	R859	VRD-ST2CD223J	J AA	22 kohms,1/6W
R375	VRD-ST2CD471J	J AA	470 ohms,1/6W	R860	VRD-ST2EE221J	J AA	220 ohms,1/4W
R376	VRD-MN2BD102J	J AA	1 kohm,1/8W	R901,902	VRD-MN2BD563J	J AA	56 kohms,1/8W
R377	VRD-MN2BD473J	J AA	47 kohms,1/8W	R903	VRD-MN2BD102J	J AA	1 kohm,1/8W
R378	VRD-MN2BD102J	J AA	1 kohm,1/8W	R904	VRD-ST2CD102J	J AA	1 kohm,1/6W
R379	VRD-MN2BD222J	J AA	2.2 kohms,1/8W	R907,908	VRD-MN2BD563J	J AA	56 kohms,1/8W
R380	VRD-MN2BD152J	J AA	1.5 kohms,1/8W	R909,910	VRD-MN2BD102J	J AA	1 kohm,1/8W
R381	VRD-MN2BD103J	J AA	10 kohm,1/8W	R911,912	VRD-MN2BD821J	J AA	820 ohms,1/8W
R382	VRD-ST2EE151J	J AA	150 ohms,1/4W	R913,914	VRN-VV3AAR10J	J AB	0.1 ohm,1W
R383	VRD-MN2BD562J	J AA	5.6 kohms,1/8W	R915	VRD-ST2CD152J	J AA	1.5 kohms,1/6W
R384	VRD-ST2CD562J	J AA	5.6 kohms,1/6W	R916	VRD-MN2BD152J	J AA	1.5 kohms,1/8W
R385	VRD-MN2BD562J	J AA	5.6 kohms,1/8W	R917-920	VRN-VV3DAR22J	J AC	0.22 ohms,2W
R386	VRD-ST2CD223J	J AA	22 kohms,1/6W	△ R921,922	VRG-ST2EC101J	J AB	100 ohm,1/4W,Fusible
R387	VRD-ST2CD562J	J AA	5.6 kohms,1/6W	R923	VRD-ST2CD102J	J AA	1 kohm,1/6W
R388	VRD-MN2BD392J	J AA	3.9 kohms,1/8W	R924	VRD-MN2BD102J	J AA	1 kohm,1/8W
R391,392	VRD-ST2EE271J	J AA	270 ohms,1/4W	R925	VRD-MN2BD223J	J AA	22 kohms,1/8W
R393	VRD-MN2BD102J	J AA	1 kohm,1/8W	R926,927	VRD-ST2CD223J	J AA	22 kohms,1/6W
R395	VRD-MN2BD473J	J AA	47 kohms,1/8W	R935-937	VRD-MN2BD563J	J AA	56 kohms,1/8W
R601-603	VRD-ST2CD102J	J AA	1 kohm,1/6W	R938,939	VRD-RT2HD681J	J AA	680 ohms,1/2W
R604	VRD-MN2BD103J	J AA	10 kohm,1/8W	R940,941	VRD-ST2EE4R7J	J AA	4.7 ohms,1/4W
R605	VRD-ST2CD103J	J AA	10 kohm,1/6W	R942,943	VRD-RT2HD681J	J AA	680 ohms,1/2W
R606,607	VRD-MN2BD392J	J AA	3.9 kohms,1/8W	R944,945	VRD-ST2CD152J	J AA	1.5 kohms,1/6W
R608,609	VRD-MN2BD122J	J AA	1.2 kohms,1/8W	R946	VRD-ST2CD473J	J AA	47 kohms,1/6W
R610,611	VRD-MN2BD222J	J AA	2.2 kohms,1/8W	R947	VRD-ST2CD153J	J AA	15 kohms,1/6W

CD-XP200/CD-XP2200

NO.	PART CODE	★ PRICE RANK	DESCRIPTION	NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
R949	VRD-RT2HD102J	J AA	1 kohm,1/2W	SW715	92LSWICH1401AT	J AC	Switch,Key Type [Timer/Sleep]
R950	VRD-ST2CD683J	J AA	68 kohms,1/6W	SW716	92LSWICH1401AT	J AC	Switch,Key Type [Tuning/Time Up]
RD01	VRD-MN2BD681J	J AA	680 ohms,1/8W	SW717	92LSWICH1401AT	J AC	Switch,Key Type [Rec Pause]
RD02	VRD-MN2BD821J	J AA	820 ohms,1/8W	SW718	92LSWICH1401AT	J AC	Switch,Key Type [Memory/Set]
RD03	VRD-MN2BD102J	J AA	1 kohm,1/8W	SW719	92LSWICH1401AT	J AC	Switch,Key Type [Tuning/Time Down]
RD04	VRD-MN2BD152J	J AA	1.5 kohms,1/8W	SW720	92LSWICH1401AT	J AC	Switch,Key Type [Clock]
RD10	VRD-MN2BD681J	J AA	680 ohms,1/8W	SW721	92LSWICH1401AT	J AC	Switch,Key Type [Volume Up]
RD11	VRD-MN2BD821J	J AA	820 ohms,1/8W	SW722	92LSWICH1401AT	J AC	Switch,Key Type [Volume Down]
RD12	VRD-MN2BD102J	J AA	1 kohm,1/8W	SW723	92LSWICH1401AT	J AC	Switch,Key Type [Disc Skip]
RD13	VRD-ST2CD152J	J AA	1.5 kohms,1/6W	SW724	92LSWICH1401AT	J AC	Switch,Key Type [Open/Close]
RD14	VRD-MN2BD222J	J AA	2.2 kohms,1/8W	SW725	92LSWICH1401AT	J AC	Switch,Key Type [Equalizer/X-Bass/Demo]
RD15	VRD-MN2BD272J	J AA	2.7 kohms,1/8W				
RD16	VRD-MN2BD392J	J AA	3.9 kohms,1/8W				
RD17	VRD-MN2BD562J	J AA	5.6 kohms,1/8W				
RD18	VRD-MN2BD103J	J AA	10 kohm,1/8W				
RD19	VRD-ST2CD681J	J AA	680 ohms,1/6W				
RD20	VRD-MN2BD821J	J AA	820 ohms,1/8W				
RD21	VRD-MN2BD102J	J AA	1 kohm,1/8W				
RD22	VRD-MN2BD152J	J AA	1.5 kohms,1/8W				
RD23	VRD-MN2BD222J	J AA	2.2 kohms,1/8W				
OTHER CIRCUITRY PARTS							
BI4/CNS4	QCWNW1572AWZZ	J AF	Connector Ass'y,6/6Pin	301	NGERH0011AWZZ	J AC	Gear,Middle
BI601/CNS601	QCWNW2241AWZZ	J AH	Connector Ass'y,8/8Pin	302	NGERH0012AWZZ	J AC	Gear,Drive
BI701/CNS701	QCWNW2172AWZZ	J AH	Connector Ass'y,10/10Pin	303	MLEVP0080AWZZ	J AC	Rail,Guide
BI705/CNS705	QCWNW2180AWZZ	J AF	Connector Ass'y,5/5Pin	304	NSFTM0020AWFW	J AD	Shaft,Guide
BI801/CNS801	QCWNW2221AWZZ	J AH	Connector Ass'y,5/5Pin	305	92LM-CUSN1524A	J AC	Cushion
CNP1	QCNCM704GAWZZ	J AC	Plug,7Pin	△ 306	92LHPC1LXASY	J BD	Pickup Unit Ass'y
CNP2	QCNCM704HAWZZ	J AC	Plug,8Pin	306-1	—	—	Pickup Unit (Not Replacement Item)
CNP3	92LCONE6P53253	J AC	Plug,6Pin	306-2	NGERR0043AFZZ	J AC	Gear,Rack
CNP3A	92LCONE6P53254	J AC	Plug,6Pin	306-3	MSPRC0961AFZZ	J AA	Spring,Rack
CNP4	QCNCM705FAFZZ	J AB	Plug,6Pin	701	XBSSD26P06000	J AA	Screw,ø2.6×6mm
CNP7	92LCONE8P53254	J AC	Plug,8Pin	702	XHBSD20P05000	J AA	Screw,ø2×5mm
CNP8	92LCONEAP53254	J AD	Plug,10Pin	703	XBSSD20P03000	J AA	Screw,ø2×3mm
CNP101	QCNCM705CAFZZ	J AA	Plug,3Pin	704	LX-WZ1070AFZZ	J AA	Washer,ø1.5×3.8×0.25mm
CNP102	QCNCM705GAFZZ	J AB	Plug,7Pin	M1	92LMTR2790CASY	J BB	Motor with Chassis [Spindle]
CNP301	92LCONE3P5268	J AC	Plug,3Pin	M2	92LMTR1854BASY	J AP	Motor with Gear [Sled]
CNP601	QCNCWZ19AWZZ	J AD	Socket,19Pin	SW4	QSW-F9001AW01	J AD	Switch,Leaf Type [Pickup In]
CNP701	QCNCWZ19AWZZ	J AD	Socket,19Pin				
CNP702	QCNCWZY08AWZZ	J AC	Socket,8Pin				
CNP705	QCNCW0218AWZZ	J AE	Plug,5Pin				
CNP801	92LCONE5P5267X	J AB	Plug,5Pin				
CNP802	92LCONE5P53253	J AB	Plug,5Pin				
CNP971	92LCONE2P53253	J AB	Plug,2Pin				
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				
CNS971	QCWNW1389AWZZ	J AC	Connector Ass'y,2Pin				
△ F801,802	QFS-D402BSJN1	J AB	Fuse,4A/125V	201	92LCAB4233AASY	J	Front Panel Ass'y [CD-XP200]
△ F803,804	QFS-D202BSJN1	J AB	Fuse,2A/125V	201	92LCAB4236AASY	J	Front Panel Ass'y [CD-XP2200]
FFC701	QCWNW2218AWZZ	J AD	Flat Cable,19Pin	201-1	—	—	Front Panel (Not Replacement Item)
FFC702	QCWNW1838AWZZ	J AD	Flat Cable,8Pin	201-2	GCOVA1417AWSA	J AH	Cover,Cassette [Tape 1] [CD-XP200]
FL701	VVKNA09SS29-1	J AX	FL Display	201-2	GCOVA1417AWSB	J	Cover,Cassette [Tape 1] [CD-XP2200]
FW803	QCWNW2252AWZZ	J	Flat Wire,5Pin	201-3	GCOVA1418AWSA	J AH	Cover,Cassette [Tape 2] [CD-XP200]
HLD803	QCNCW019EAWZZ	J AB	Holder,Flat Wire	201-3	GCOVA1418AWSB	J	Cover,Cassette [Tape 2] [CD-XP2200]
JK690	QSOCJ0224AWZZ	J AC	Jack,Video/AUX	201-4	GCOVA1421AWSA	J AC	Cover,Remote Sensor
JK701	QJAKM0004AWZZ	J AK	Jack,Headphones	201-5	GCOVA1422AWSA	J AB	Cover,LED,Timer
LUG3,4	QLUGP0001AWZZ	J AC	Lug	201-6	GDORF0112AWSA	J AE	Holder,Cassette [Tape 1]
M1	92LMTR2790CASY	J BB	Motor with Chassis [Spindle]	201-7	GDORF0113AWSA	J AE	Holder,Cassette [Tape 2]
M2	92LMTR1854BASY	J AP	Motor with Gear [Sled]	201-8	HDECQ0834AWSA	J AE	Panel,Cassette [Tape 1] [CD-XP200]
M3	RMOTV0373AFZZ	J AL	Motor with Worm Pulley [T/T Up/Down Loading]	201-8	HDECQ0834AWSB	J	Panel,Cassette [Tape 1] [CD-XP2200]
M4	RMOTV0027AWZZ	J AM	Motor,Air Cooling Fan	201-9	HDECQ0835AWSA	J AE	Panel,Cassette [Tape 2] [CD-XP200]
RL914	RRLYD0016AWZZ	J AH	Relay	201-9	HDECQ0835AWSB	J	Panel,Cassette [Tape 2] [CD-XP2200]
RX701	VHLGP1UM271-1	J AH	Remote Sensor,GP1UM271	201-10	HDECQ0859AWSA	J	Panel,Amp. [CD-XP200]
SO901	QTANA0423AWZZ	J AE	Terminal,Speaker	201-10	HDECQ0863AWSA	J	Panel,Amp. [CD-XP2200]
SW1	QSW-M0012AWZZ	J AM	Switch,Leaf Type [Open/Close]	201-11	HDECQ0844AWSA	J AC	Ring,Play/Stop [CD-XP200]
SW2	QSW-M0012AWZZ	J AM	Switch,Leaf Type [Clamp]	201-11	HDECQ0844AWSB	J	Ring,Play/Stop [CD-XP2200]
SW3	QSW-M0012AWZZ	J AM	Switch,Leaf Type [Disc Number]	201-12	HDECQ0850AWSA	J AH	Panel,FL Display
SW4	QSW-F9001AW01	J AD	Switch,Leaf Type [Pickup In]	201-13	JKNBZ0862AWSA	J AH	Button,Volume [CD-XP200]
SW701	92LSWICH1401AT	J AC	Switch,Key Type [Power]	201-13	JKNBZ0862AWSB	J	Button,Volume [CD-XP2200]
SW702	92LSWICH1401AT	J AC	Switch,Key Type [Fast Rewind/Preset Down]	201-14	JKNBZ0863AWSA	J AK	Button,Operation [CD-XP200]
SW703	92LSWICH1401AT	J AC	Switch,Key Type [Fast Forward/Preset Up]	201-14	JKNBZ0863AWSB	J	Button,Operation [CD-XP2200]
SW704	92LSWICH1401AT	J AC	Switch,Key Type [Stop]	201-15	JKNBZ0864AWSA	J AC	Button,X-Bass/Equalizer [CD-XP200]
SW705	92LSWICH1401AT	J AC	Switch,Key Type [Play/Repeat]	201-15	JKNBZ0864AWSB	J	Button,X-Bass/Equalizer [CD-XP2200]
SW711	92LSWICH1401AT	J AC	Switch,Key Type [CD]	201-16	JKNBZ0865AWSA	J AD	Button,Function [CD-XP200]
SW712	92LSWICH1401AT	J AC	Switch,Key Type [Tuner (Band)]	201-16	JKNBZ0865AWSB	J	Button,Function [CD-XP2200]
SW713	92LSWICH1401AT	J AC	Switch,Key Type [Tape]	201-17	JKNBZ0866AWSA	J AF	Button,Power [CD-XP200]
SW714	92LSWICH1401AT	J AC	Switch,Key Type [Video/Aux]	201-17	JKNBZ0866AWSB	J	Button,Power [CD-XP2200]
				201-18	LHLDZ1413AWZZ	J AF	Block,Button
				201-19	MLIFP0008AWZZ	J AD	Damper
				201-20	MSPRD0151AWFJ	J AB	Spring,Cassette [Tape 1]
				201-21	MSPRD0152AWFJ	J AB	Spring,Cassette [Tape 2]

CD-XP200/CD-XP2200

NO.	PART CODE	★ PRICE RANK	DESCRIPTION
202	92LCAB3838BASY	J	Side Panel Ass'y,Left [CD-XP200]
202	92LCAB3839BASY	J	Side Panel Ass'y,Left [CD-XP2200]
202- 1	—	—	Side Panel,Left (Not Replacement Item)
202- 2	PCUSG0022AWZZ	J AB	Cushion,Leg
203	92LCAB3838CASY	J	Side Panel Ass'y,Right [CD-XP200]
203	92LCAB3839CASY	J	Side Panel Ass'y,Right [CD-XP2200]
203- 1	—	—	Side Panel,Right (Not Replacement Item)
203- 2	PCUSG0022AWZZ	J AB	Cushion,Leg
204	GCAB-1197AWZZ	J AM	Loading Tray
205	GCAB-1215AWSA	J AT	Top Cabinet [CD-XP200]
205	GCAB-1215AWSB	J	Top Cabinet [CD-XP2200]
206	GCOVA1416AWSA	J AL	Cover,CD Tray [CD-XP200]
206	GCOVA1416AWSB	J	Cover,CD Tray [CD-XP2200]
207	GITAR0969AWSA	J	Rear Panel [CD-XP200 for U.S.A.]
207	GITAR0989AWSA	J	Rear Panel [CD-XP200 for Canada]
207	GITAR0990AWSA	J	Rear Panel [CD-XP200 for Mexico]
207	GITAR0998AWSA	J	Rear Panel [CD-XP2200]
208	KMECB0024AWZZ	J BF	Tape Mechanism Ass'y
208- 1	92PF513-853	J BL	Head Plate Block [Tape 2]
208- 2	92PF525-336	J BE	Motor with Pulley [Tape]
208- 3	92PF567-677	J	Tape Mechanism PWB Ass'y
208- 4	92PFF19N-21	J AL	Belt,Main [Tape 2]
208- 5	92PF514-133	J AL	Pinch Roller
208- 6	92PF19S-31	J AL	Belt,FF/REW [Tape 2]
208- 7	92PFF19N-11	J AL	Belt,Main [Tape 1]
208- 8	92PF522-061	J AZ	Clutch Ass'y Block [Tape 1]
208- 9	92PFF19S-52	J AL	Belt,FF/REW [Tape 1]
208-10	92PF513-861	J AG	Head Plate Block [Tape 1]
208-11	92PF522-063	J AZ	Clutch Ass'y Block [Tape 2]
208-12	92PFD60F-11	J AK	Cam Gear [Tape 1]
208-13	92PFR26C-11	J AN	Flywheel [Tape 1]
208-14	92PFR26D-11	J AN	Flywheel [Tape 2]
208-15	92PF765-292	J AS	Solenoid Ass'y
208-16	92PFD58M-14	J AK	Cam Gear [Tape 2]
209	LANGK0110AWFW	J AE	Bracket,Cassette Lock,Tape 1
210	LANGK0111AWFW	J AE	Bracket,Cassette Lock,Tape 2
211	LANGK0300AWFW	J AE	Bracket,Fan Support
212	LBSHC0005AWZZ	J AD	Bushing,AC Power Supply Cord
213	LCHSM0157AWFW	J	Chassis,Main
214	LCHSM0155AWZZ	J AS	Chassis,Loading
215	LHLDM1018AWZZ	J AE	Stabilizer
216	LHLDZ1357AWZZ	J AH	Holder,CD Mechanism
217	LHLDZ1358AWZZ	J AF	Holder,Stabilizer
218	LHLDZ1359AWZZ	J AD	Holder,Gear
219	LHLDZ1410AWZZ	J AD	Holder,FL Display
220	LHLDZ1412AWZZ	J AC	Holder,LED
221	MCAMP0010AWZZ	J AE	Gear,Can Upper
222	MCAMP0011AWZZ	J AE	Gear,Can Lower
223	MLEV0109AWZZ	J AB	Lever,Cam Lock
224	MLEV0110AWZZ	J AB	Lever,Switch A
225	MLEV0111AWZZ	J AB	Lever,Switch B
226	MLEV0112AWZZ	J AB	Turntable Actuator
227	MLOK0003AWZZ	J AD	Lock Lever,Cassette,Tape 1
228	MLOK0004AWZZ	J AD	Lock Lever,Cassette,Tape 2
229	MSPRC0033AWFJ	J AB	Spring,Friction
230	MSPRD0109AWFJ	J AB	Spring,Cassette Lock,Tape 1
231	MSPRD0110AWFJ	J AB	Spring,Cassette Lock,Tape 2
232	MSPRP0057AWFW	J AC	Spring,Tray Lock
233	MSPRP0068AWFW	J AB	Spring,Motor Gear
234	NFANP0001AWZZ	J AD	Rotary Fan
235	NGERH0152AWZZ	J AC	Gear,Turntable Drive
236	NGERH0153AWZZ	J AC	Gear,Drive
237	NGERW0020AWZZ	J AC	Gear,Center
238	NGERW0021AWZZ	J AC	Gear,Idler
239	NGERW0022AWZZ	J AD	Gear,Worm
240	NGERW0023AWZZ	J AC	Gear,Motor
241	NTNT-0022AWZZ	J	Turntable
242	PCUSG0022AWZZ	J AB	Cushion,Leg
243	PMAGF0001AWZZ	J AF	Magnet
244	PRDAR0232AWFW	J	Heat Sink,Main
△ 245	QACCD0022AWZZ	J AM	AC Power Supply Cord
246	QCNWN1860AWZZ	J AC	Lug Wire
△ 247	QFSDH0001AWZZ	J AB	Holder,Fuse

NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
248	92LCSPPR1431C	J AA	Spring,Ring
249	92LMT0304302	J AB	Plate,Metal
250	92LNBAND1318A	J AA	Nylon Band,80mm
251	92LPT0303002	J AB	Roller
252	LANGK0326AWFW	J	Bracket,PWB
253	PRDAR0199AWFW	J	Heat Sink,Sub
601	LX-BZ0082AWFC	J	Screw,Transport
602	LX-EZ0010AWFD	J AA	Screw,Special
603	LX-HZ0009AWFD	J AC	Screw,ø2×13mm
604	LX-JZ0010AFFD	J AA	Screw,ø3×10mm
605	XBBSD20P04000	J AA	Screw,ø2×4mm
606	XEBSD26P08000	J AA	Screw,ø2.6×8mm
607	XEBSD30P08000	J AA	Screw,ø3×8mm
608	XEBSD30P10000	J AA	Screw,ø3×10mm
609	XEBSD30P12000	J AA	Screw,ø3×12mm
610	XESSD30P10000	J AA	Screw,ø3×10mm
611	XHBSD26P04000	J AA	Screw,ø2.6×4mm
612	XHBSD40P08000	J AA	Screw,ø4×8mm
613	XJBSD20P05000	J AA	Screw,ø2×5mm
614	XJBSD30P10000	J AA	Screw,ø3×10mm
615	XJBSD30P06000	J AA	Screw,ø3×6mm
616	XJBSD30P14000	J AA	Screw,ø3×14mm
617	XJBSF30P10000	J AA	Screw,ø3×10mm
618	XJSSD30P10000	J AA	Screw,ø3×10mm
619	92LSC0310RBZI	J AB	Screw,ø3×10mm
620	92LSC0314WBZI	J AB	Screw,ø3×14mm

PACKING PARTS [EXCEPT FOR U.S.A.]

SPAKA0366AWZZ	J	Packing Add.Left/Right
SPAKC1398AWZZ	J	Packing Case [CD-XP200 for Mexico]
SPAKC1400AWZZ	J	Packing Case [CD-XP200 for Canada]
SPAKP0013AWZZ1	J AC	Polyethylene Bag,Unit
SPAKZ0885AWZZ	J	Sheet,Miramat
SPAKZ0887AWZZ	J	Pad,Bottom
SPAKZ0891AWZZ	J	Sheet,CD Tray Cover
SPAKZ0895AWZZ	J	Pad,Support
SSAKA0007AWZZ	J AB	Polyethylene Bag,Accessories

ACCESSORIES

QANTL0007AWZZ	J AK	AM/FM Loop Antenna
TCAUZ0128AWZZ	J	Caution,Transport
TINSE0440AWZZ	J	Operation Manual [CD-XP200 Except for Canada/ Mexico/CD-XP2200]
TINSK0135AWZZ	J	Operation Manual [CD-XP200 for Canada]
TINSZ0786AWZZ	J	Quick Guide [CD-XP200/CD-XP2200 for U.S.A. Only]
TINSZ0798AWZZ	J	Operation Manual [CD-XP200 for Mexico]
TLABR1248AWZZ	J	Label,Bar Code [CD-XP200]
TLABR1258AWZZ	J	Label,Bar Code [CD-XP2200]
TLABZ1034AWZZ	J AC	Label,Feature [Tape 2]
TLABZ1062AWZZ	J	Label,Feature [Tape 1]
RRMCG0318AWSA	J AR	Remote Control
GFTAB1043AWSA	J	Battery Lid,Remote Control

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

△ PWB-A1~3	92LPWB4233MANS	J	—	Main/Power/Transformer [CD-XP200]
△ PWB-A1~3	92LPWB4236MANS	J	—	Main/Power/Transformer [CD-XP2200]
PWB-B1,2	92LPWB4233DPLS	J	—	Display/Headphones [CD-XP200]
PWB-B1,2	92LPWB4236DPLS	J	—	Display/Headphones [CD-XP2200]
PWB-C	92LPWB3838CDUS	J	—	CD Servo
PWB-D	QPWBF0027AWZZ	J AD	AD	CD Motor (PWB Only)
PWB-E	QPWBF0749AWZZ	J AD	AD	CD Loading Motor (PWB Only)
PWB-F	92PF567-677	J	—	Tape Mechanism

OTHER SERVICE PART

UDSKA0004AFZZ	J AZ	CD Pickup Lens Cleaner
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NO. PART CODE ★ PRICE RANK DESCRIPTION

CP-XP200/CP-XP2200

SPEAKER BOX PARTS

901	GBOXS0088AWSA	J		Speaker Box Ass'y [CP-XP200]
901	GBOXS0088AWSC	J		Speaker Box Ass'y [CP-XP2200]
902	CPNLS1056AW01	J		Front Panel Ass'y [CP-XP200]
902	CPNLS1056AW02	J		Front Panel Ass'y [CP-XP2200]
903	QCNWN1833AWZZ	J	AH	Speaker Cord Ass'y (with Capacitor C1,2)
904	PCUSG0022AWZZ	J	AB	Cushion,Leg
905	PFLT-0046AWZZ	J	AC	Felt
906	TSPC-1018AWZZ	J		Label,Specifications [CP-XP200]
906	TSPC-1032AWZZ	J		Label,Specifications [CP-XP2200]
907	XJBSD30P10000	J	AA	Screw,ø3×10mm
908	XJBSD40P12000	J	AA	Screw,ø4×12mm
SP1,2	RSPA10069AW6W	J		Woofer
SP3,4	RSPA00057AW6T	J		Tweeter

PACKING PARTS [EXCEPT FOR U.S.A.]

	SPAKA0367AWZZ	J		Packing Add.,Top/Bottom
	SSAKH0051AWZZ	J	AC	Polyethylene Bag,Speaker

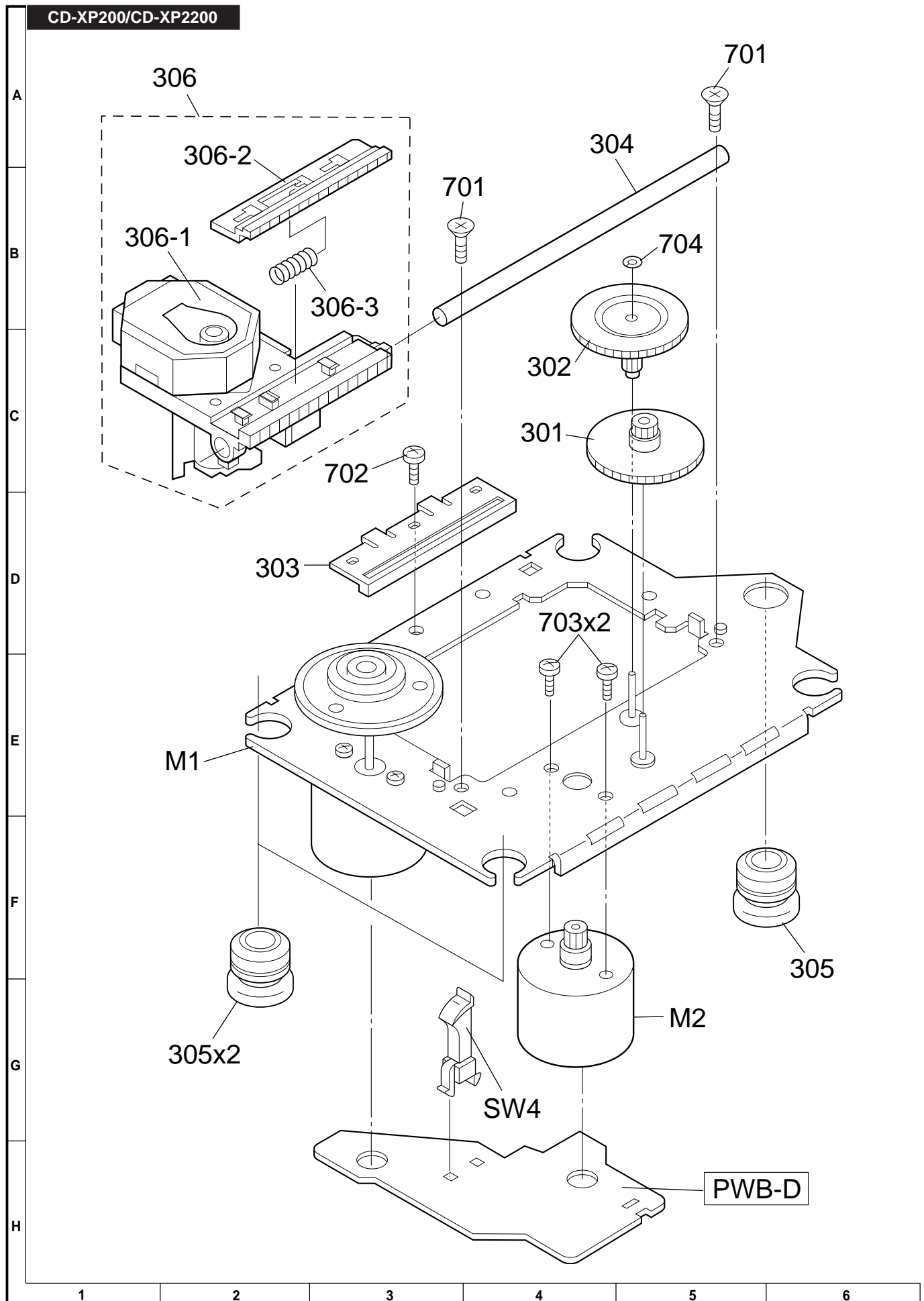
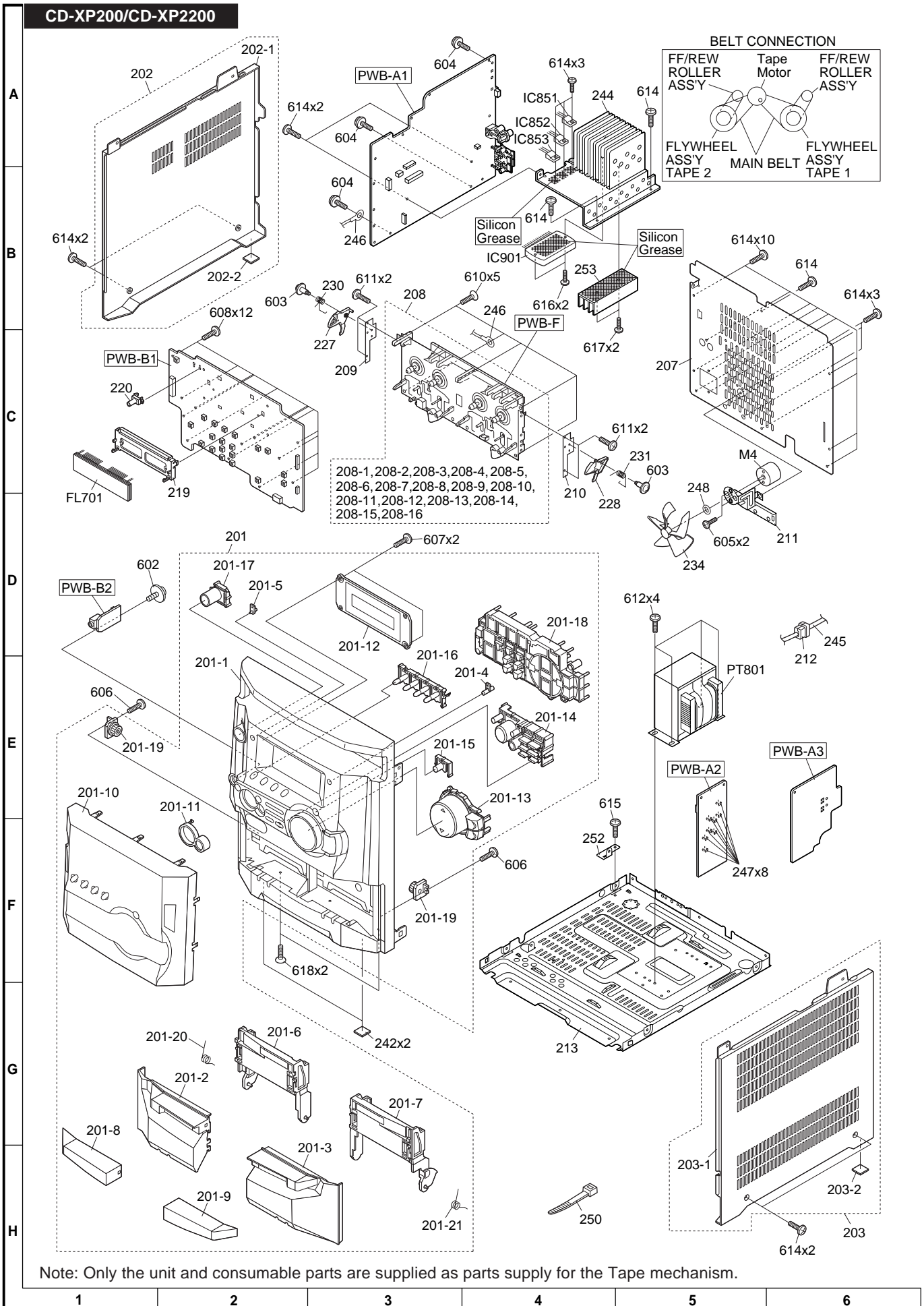


Figure 7 CD MECHANISM EXPLODED VIEW

CD-XP200/CD-XP2200



Note: Only the unit and consumable parts are supplied as parts supply for the Tape mechanism.

Figure 8 CABINET EXPLODED VIEW (1/2)

CD-XP200/CD-XP2200

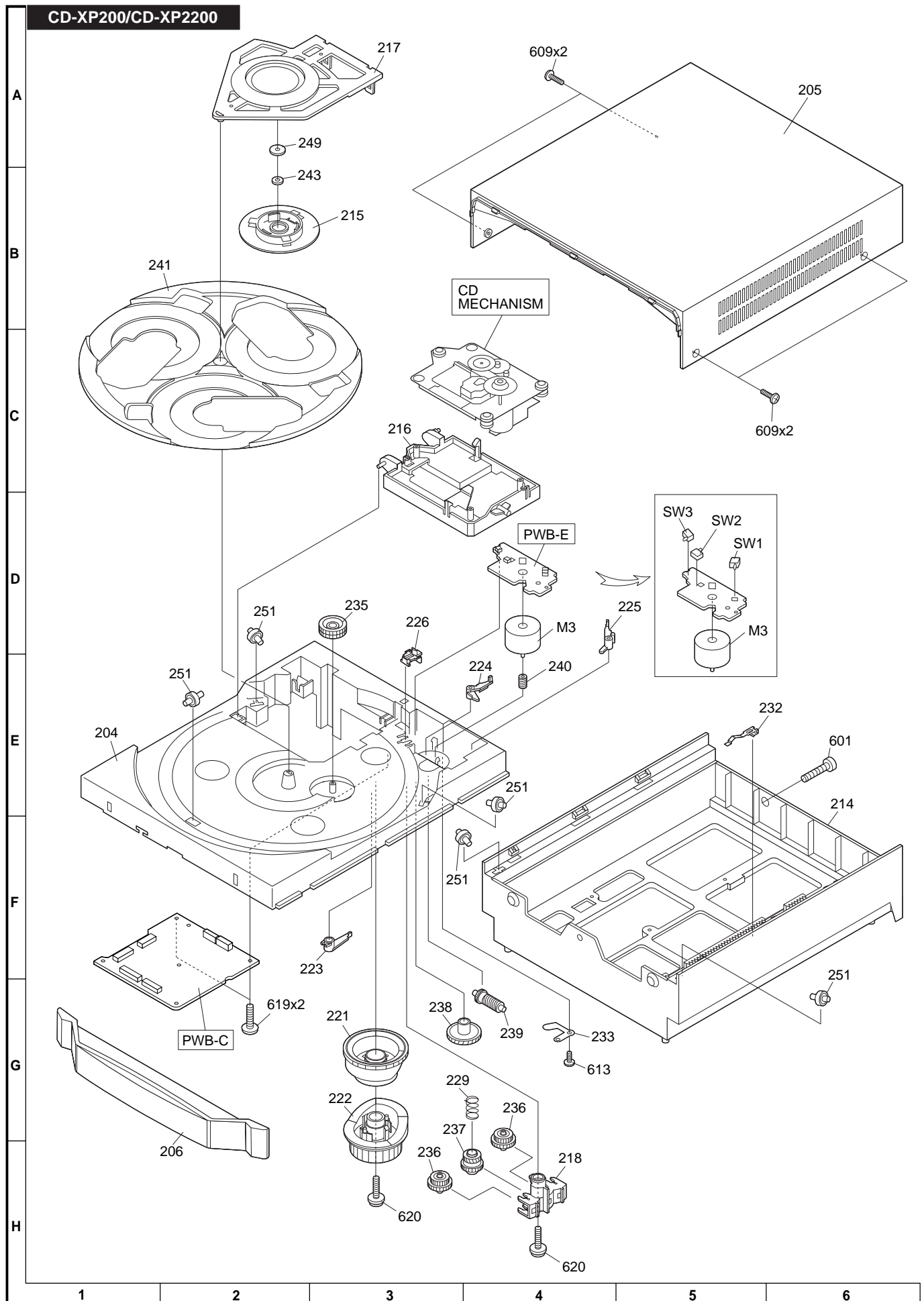


Figure 9 CABINET EXPLODED VIEW (2/2)

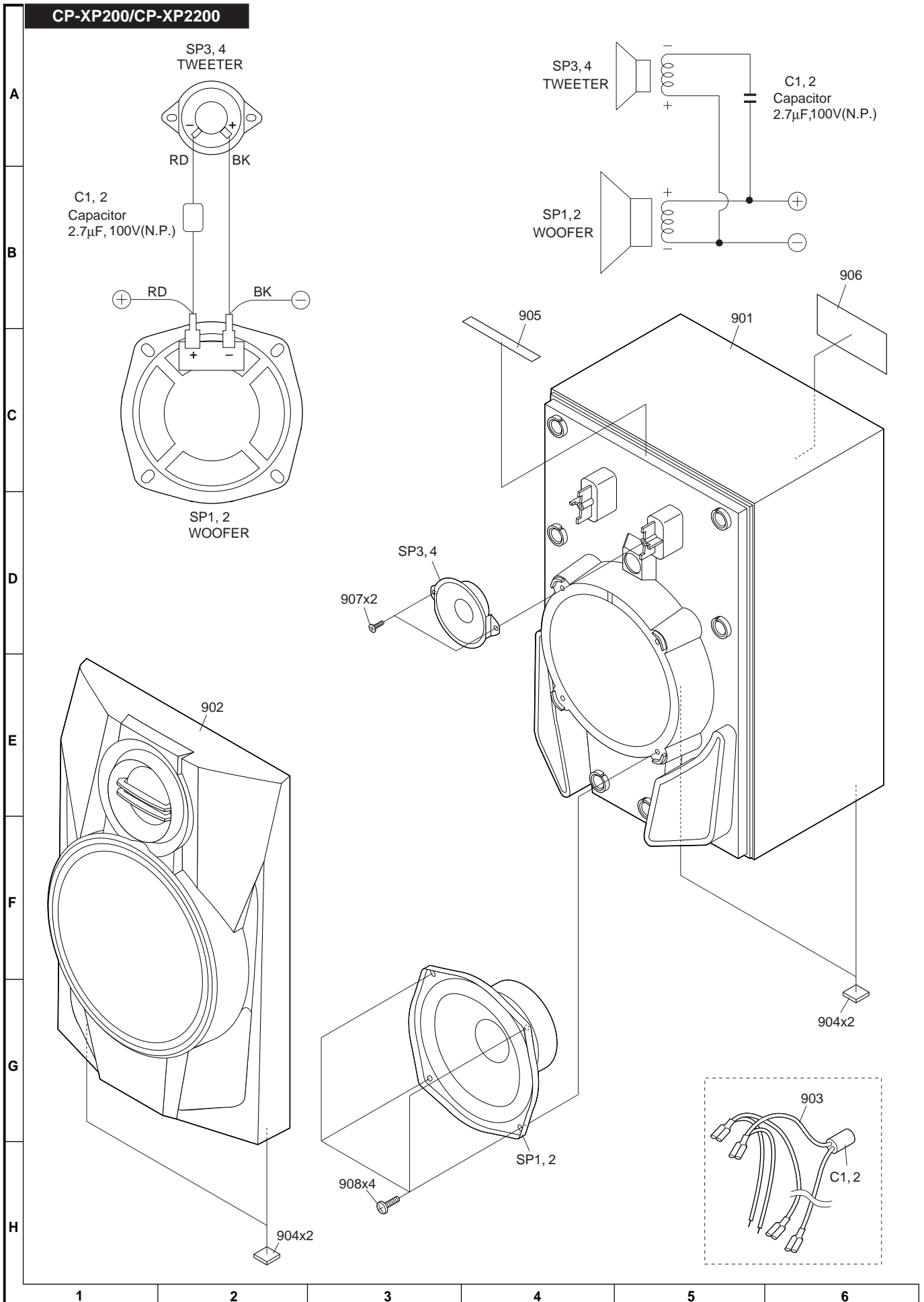
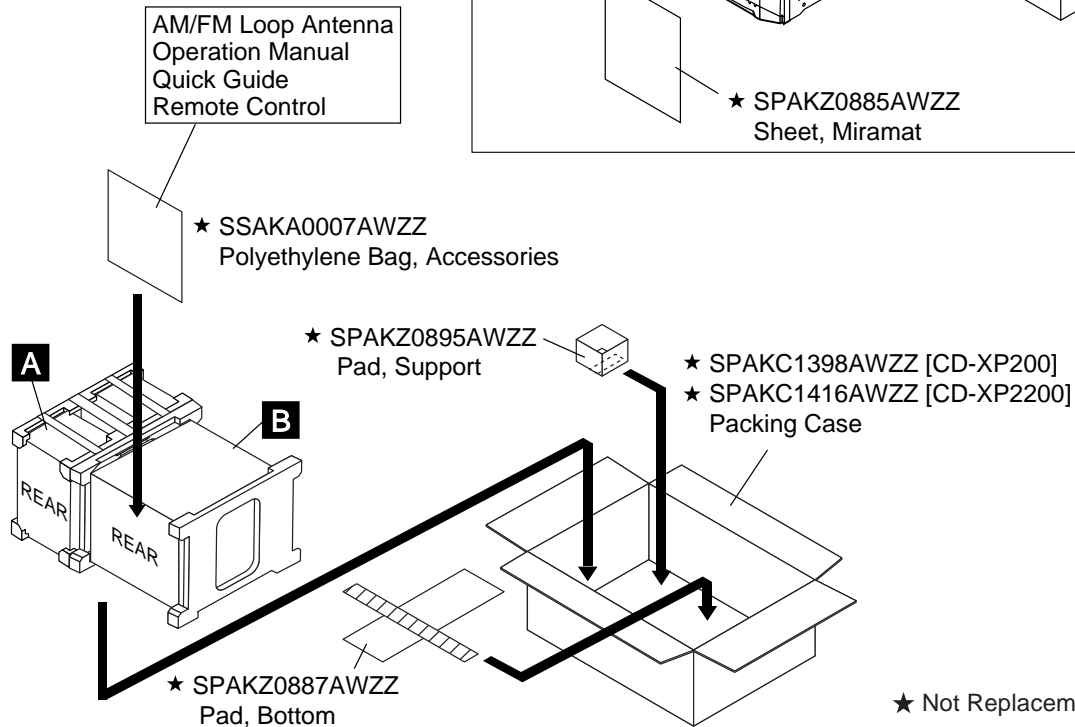
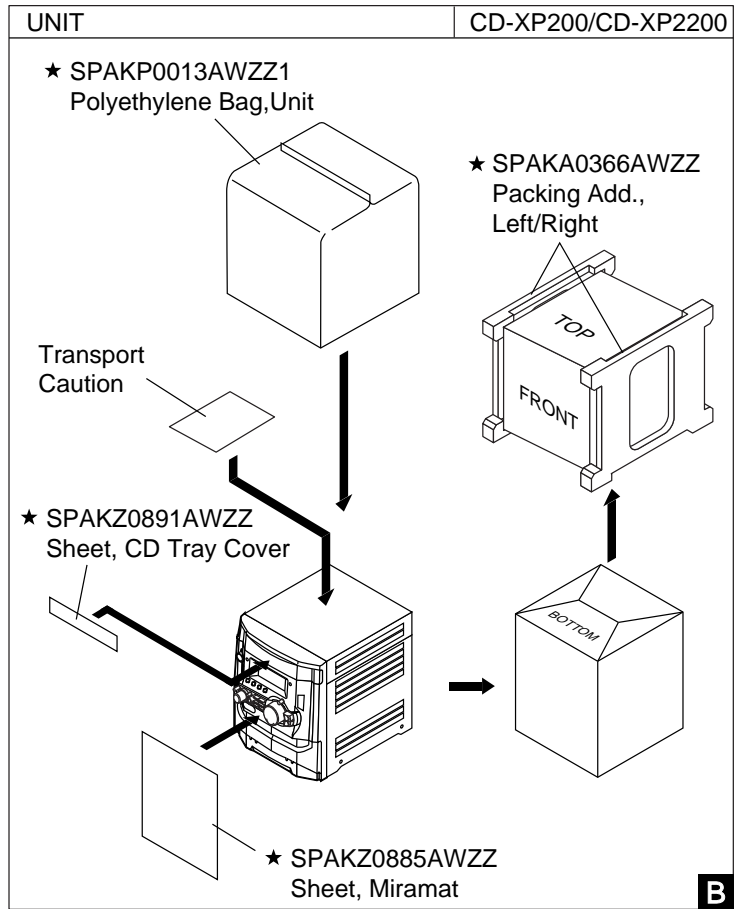
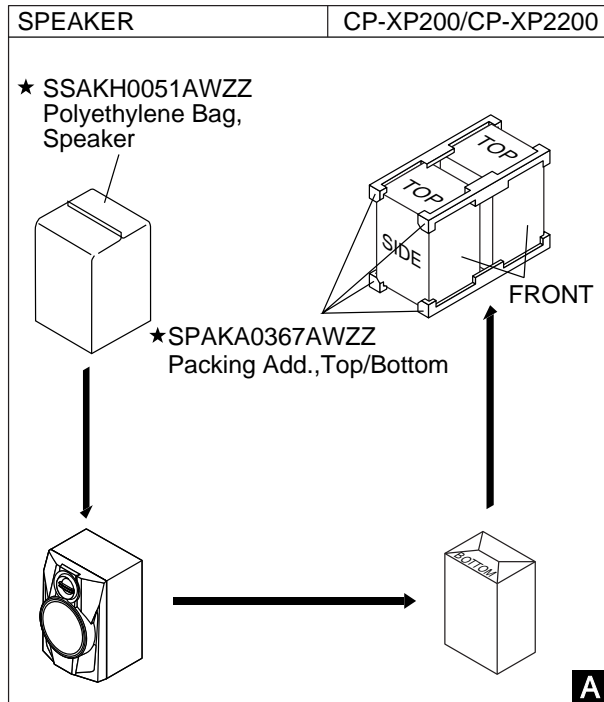


Figure 10 SPEAKER EXPLODED VIEW

PACKING OF THE SET (FOR U.S.A. ONLY)

Setting position of switches and knobs	
Tape Mechanism	STOP



★ Not Replacement Item

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