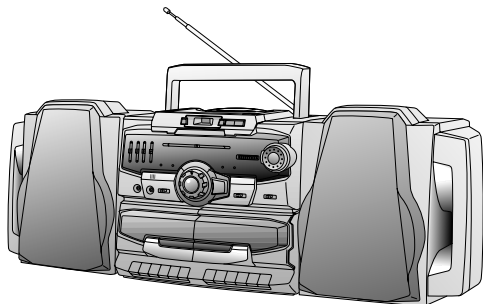


# SHARP SERVICE MANUAL

No. S5039GXCD1200



## PORTABLE CD STEREO COMPONENT SYSTEM GX-CD1200W(BK) MODEL GX-CD1200W(GL)

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

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### SPECIFICATIONS

● **General**

**Power source:** AC 110-127 V/220-240 V, 50/60 Hz  
DC 15 V ["D" size (UM/SUM-1, R20 or HP-2) battery x 10]

**Power consumption:** 31 W

**Output power:** PMPO; 200 W (Total)  
(AC operation)  
MPO; 50 W (25 W + 25 W)  
(AC operation)  
RMS; 25 W (12.5 W + 12.5 W)  
(DC operation, 10 % T.H.D.)

**Input terminal:** Mixing microphone(monaural); 600 ohms

**Output terminal:** Headphones; 16-50 ohms  
(recommended; 32 ohms)  
**Dimensions:** Width; 300 mm (11-13/16")  
Height; 262 mm (9-1/2")  
Depth; 220 mm (8-11/16")

**Weight:** 4.1 kg (9.1 lbs.) without batteries

● **Compact disc player**

**Type:** Compact disc  
**Signal readout:** Non-contact, 3-beam semi-conductor laser pickup  
**Audio channels:** 2  
**Filter:** 8-times oversampling digital filter  
**D/A converter:** 1-bit D/A converter  
**Wow and flutter:** Unmeasurable  
(less than 0.001 % W. peak)

● **Radio section**

**Frequency range:** FM; 88 - 108 MHz  
SW1; 2.3 - 7.3 MHz  
SW2; 7.3 - 22 MHz  
MW; 526.5 - 1,606.5 kHz

● **Tape recorder section**

**Frequency response:** 60 - 12,000 Hz (Normal tape)  
**Signal/noise ratio:** 40 dB (TAPE 1, recording/playback)  
55 dB (TAPE 2, playback)  
0.15 % (WRMS)  
**Wow and flutter:**  
**Motor:** DC 9 V electric governor  
**Bias system:** AC bias  
**Erase system:** Magnet erase

● **Speaker section**

**Type:** 2-way type  
**Speakers:** 12 cm (4-3/4") free-edge speaker x 2  
Tweeter x 2  
**Maximum input power:** 25 W  
**Rated input power:** 12.5 W  
**Impedance:** 8 ohms  
**Dimensions:** Width; 235 mm (9-1/4")  
Height; 262 mm (10-5/16")  
Depth; 220 mm (8-11/16")  
**Weight:** 1.8 kg (4.0 lbs.)/each

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

## GX-CD1200W

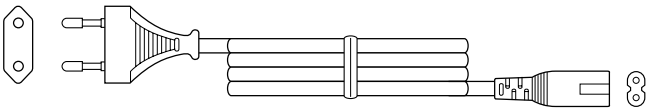
FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT, PLEASE REFER TO THE OPERATION MANUAL.

### VOLTAGE SELECTION

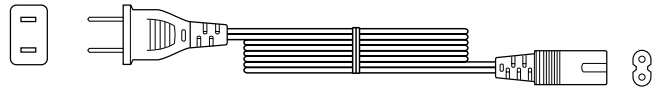
Before operating the unit on mains, check the preset voltage. If the voltage is different from your local voltage, adjust the voltage as follows: Slide the voltage selector with a screwdriver to the appropriate voltage number (AC 110V-127V or AC 220V-240V).

### AC POWER SUPPLY CORD AND AC PLUG ADAPTOR

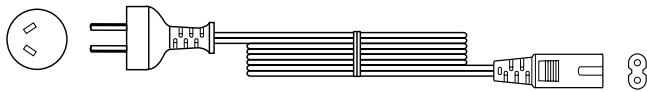
QACCE0007AW00



QACCA0001SJ00



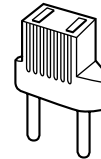
QACCL0002AW00



QPLGA0250AFZZ



QPLGA0253AFZZ



### FITTING OF DIAL POINTER

1. Remove the Main PWB, the Graphic Equalizer PWB, the Volume PWB and the Fine Tuning PWB. (See Figure 4-2 in the "Disassembly" on page 4.)
2. Remove the dial pointer guide and PWB.
3. Insert the dial pointer from (A), lead it under (B), hang it on the tuner gear and then pass it through (C).
4. Replace the Main PWB, the Graphic Equalizer PWB, the Volume PWB and the Fine Tuning PWB.
5. Rotate the tuning knob in the arrow direction until it stops. (Set the tuner variable capacitor to "0" point (F-LOW state).)
6. Adjust the dial pointer so that its stopper becomes the Figure 2-2 position. (Adjust the engagement of the pointer gear and the tuner gear to get the minimum space between the PWB and the stopper.) This position is the "0" point.
7. Screw up the PWB and the dial pointer guide.

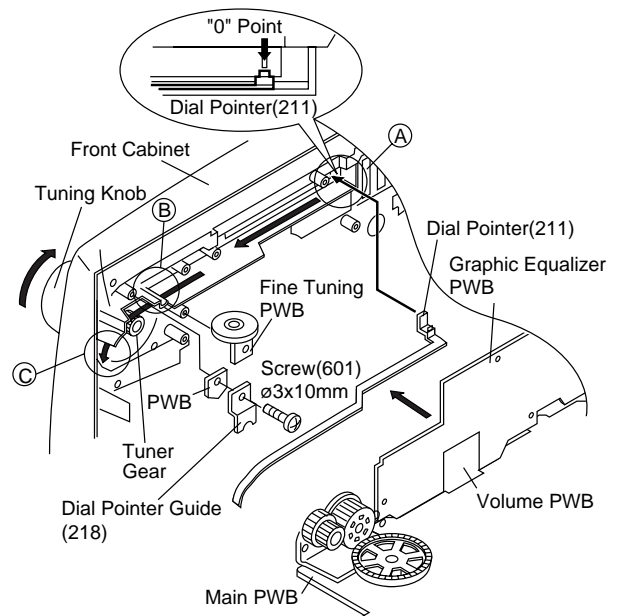


Figure 2-1

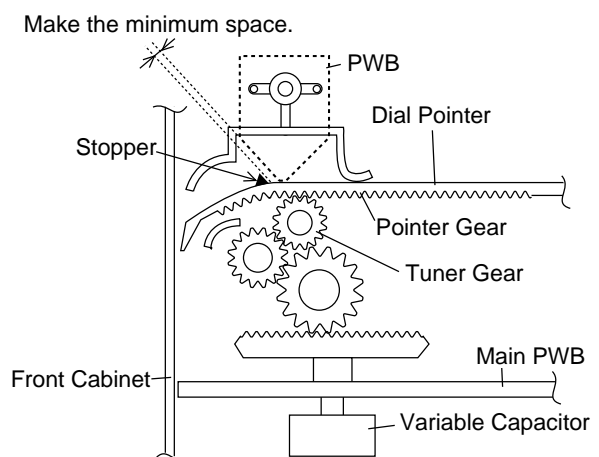
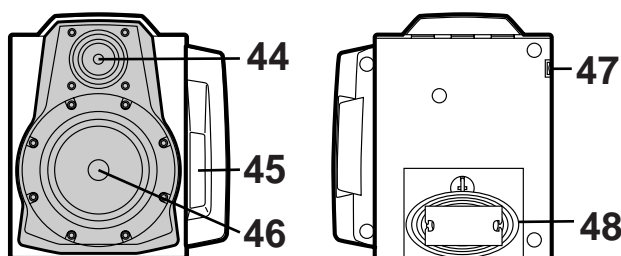
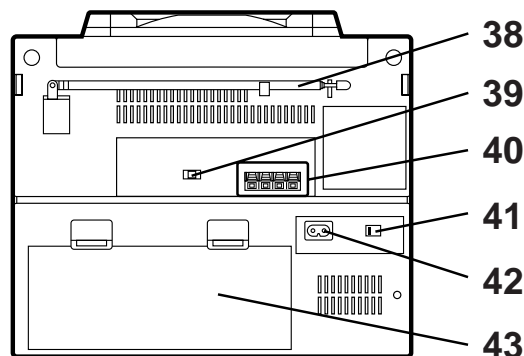
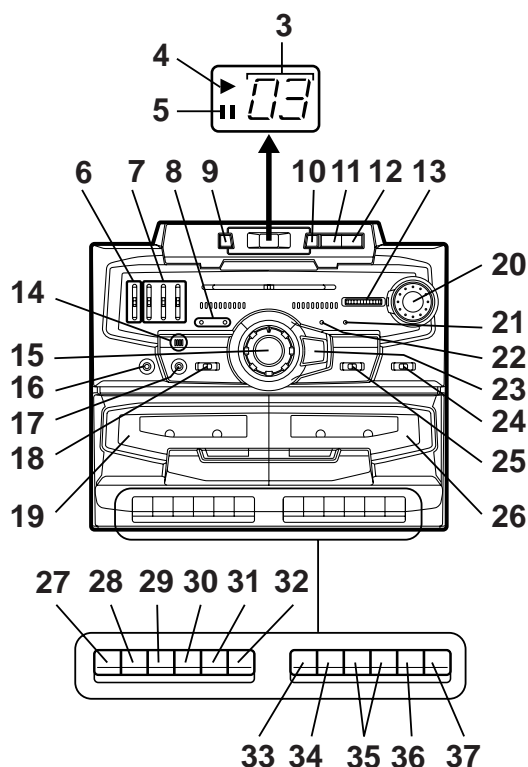
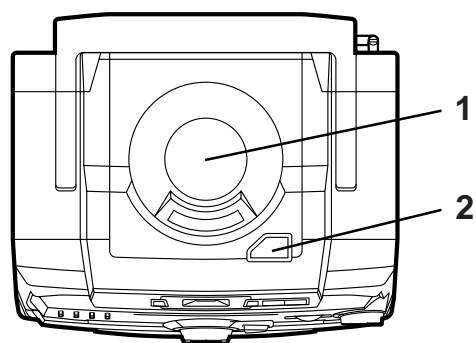


Figure 2-2

# NAMES OF PARTS

- 1. CD Compartment
- 2. CD Eject Button
  
- 3. Track Number Indicator
- 4. (CD) Play Indicator
- 5. (CD) Pause Indicator
- 6. Extra Bass Control
- 7. Graphic Equalizer Controls
- 8. Power/(TAPE 2) Play Direction Indicators
- 9. (CD) Track Down/Review Button
- 10. (CD) Track Up/Cue Button
- 11. (CD) Stop Button
- 12. (CD) Play/Pause Button
- 13. Fine Tuning Control
- 14. Built-in Microphone
- 15. Volume Control
- 16. Headphone Socket
- 17. Mixing Microphone Socket
- 18. Function Selector Switch
- 19. (TAPE 1) Cassette Compartment
- 20. Tuning Control
- 21. FM Stereo Indicator
- 22. Surround Indicator
- 23. Surround Switch
- 24. Band Selector Switch
- 25. Dubbing Speed/Built-in Microphone/FM Mode Switch
- 26. (TAPE 2) Cassette Compartment
  
- 27. (TAPE 1) Record Button
- 28. (TAPE 1) Play Button
- 29. (TAPE 1) Rewind Button
- 30. (TAPE 1) Fast Forward Button
- 31. (TAPE 1) Stop/Eject Button
- 32. (TAPE 1) Pause Button
- 33. (TAPE 2) Reverse Mode Switch
- 34. (TAPE 2) Play Button
- 35. (TAPE 2) Fast Wind Buttons
- 36. (TAPE 2) Stop/Eject Button
- 37. (TAPE 2) Direction Switch
  
- 38. FM/SW Telescopic Rod Aerial
- 39. Beat Cancel Switch
- 40. Speaker Terminals
- 41. AC Voltage Selector
- 42. AC Power Input Socket
- 43. Battery Compartment
  
- 44. Tweeter
- 45. Bass Reflex Duct
- 46. Woofer
- 47. Speaker Release Lever
- 48. Speaker Wire





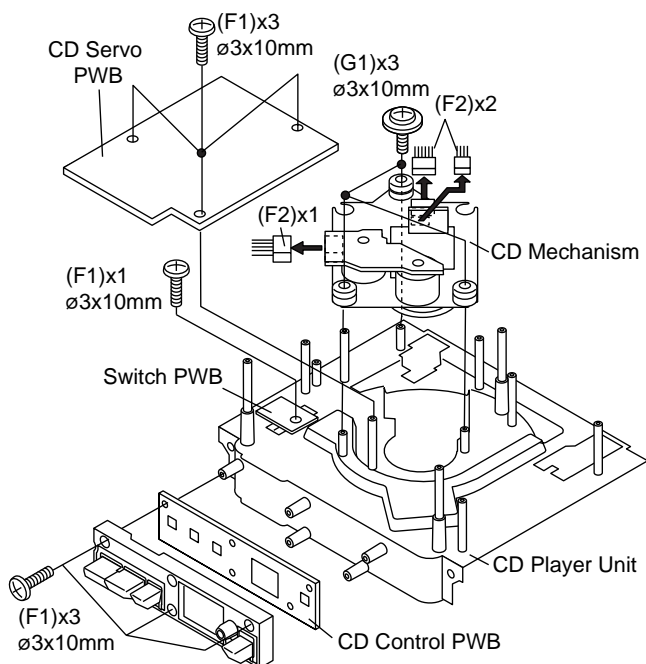


Figure 5-1

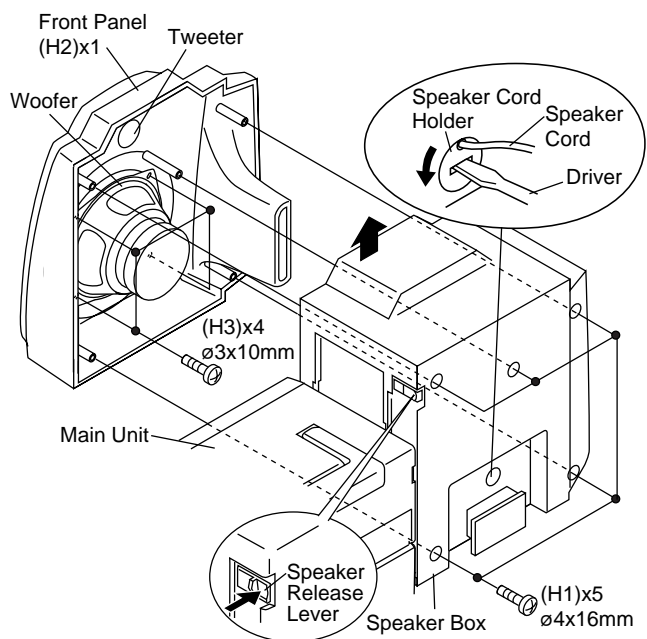


Figure 5-2

## REMOVING AND REINSTALLING THE MAIN PARTS

### CD MECHANISM SECTION

Perform steps 1,2,6 and 7 of the disassembly method to remove the CD mechanism.

#### How to remove the pickup (See Fig. 5-3.)

1. Remove the hooks (A1) x 2 pcs., to remove the CD Mechanism Cover (A2) x1 pc.
2. Remove the screws (A3) x 2 pcs., to remove the shaft (A4) x1 pc.
3. Remove the stop washer (A5) x1 pc., to remove the gear (A6) x 1 pc.
4. Remove the pickup.

#### Note : (Figure 5-1 and Figure 5-3)

After removing the connector for the optical pick-up from the connector, wrap the conductive aluminium foil around the front end of connector to protect the optical pick-up from electrostatic damage.

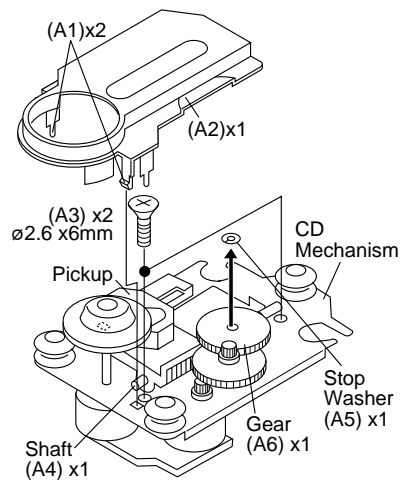


Figure 5-3

# GX-CD1200W

## TAPE MECHANISM SECTION

Perform steps 1, 2, 3 and 4 of the disassembly method to remove the mechanism block.

### How to remove the record / playback, playback and erase heads (See Figs. 6-1 and 6-2.)

1. Remove the screws (A1) x 2 pcs., to remove the record/playback head.
2. Remove the hooks (A2) x 2 pcs., toward the center position as shown in Fig. 6-1. and then extract the erase head upward.
3. Remove the screws (B1) x 2 pcs., to remove the playback head.

**Note:**

After replacing the heads and performing the azimuth adjustment, be sure to apply screw lock.

### How to remove the pinch roller (See Fig. 6-3.)

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

### How to remove the motor (See Fig. 6-4.)

1. Remove the belt.
2. Remove the screws (D1) x 4 pcs., to remove the motor bracket.
3. Remove the screws (D2) x 3 pcs., to remove the motor.

**Note:**

When mounting the motor, pay attention to the motor mounting angle.

### How to remove the belts (See Fig. 6-5.)

1. Remove the main belt (E1) x 1 pc., at the tape 1 side from the motor pulley.
2. Remove the main belt (E2) x 1 pc., at the tape 2 side from the motor pulley.
3. Remove the REW/FF belt (E3) x 2 pcs., from the REW/FF roller.
4. Put on the belts in the reverse order of removal.

**Note:**

When putting on the belt, ascertain that the belt is not twisted, and clean it.

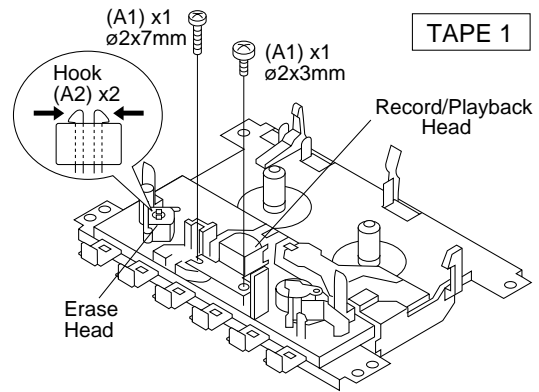


Figure 6-1

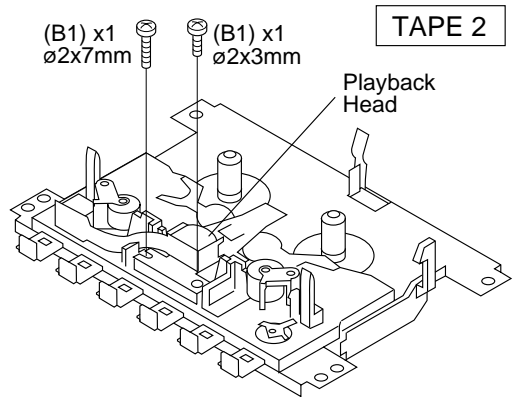


Figure 6-2

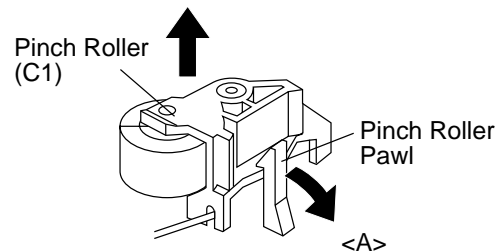


Figure 6-3

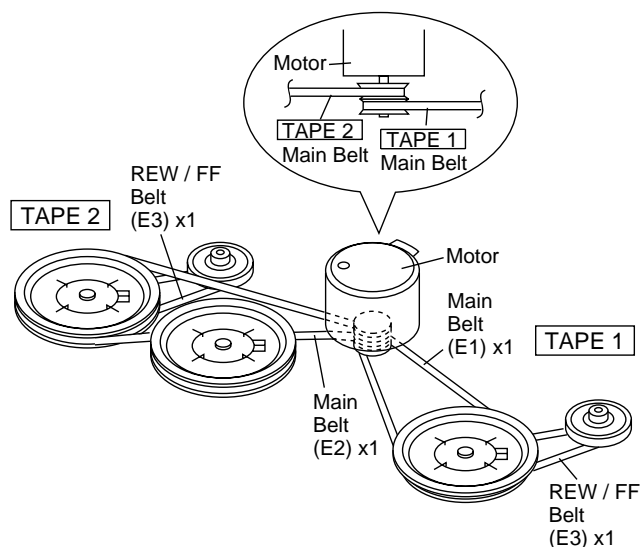


Figure 6-5

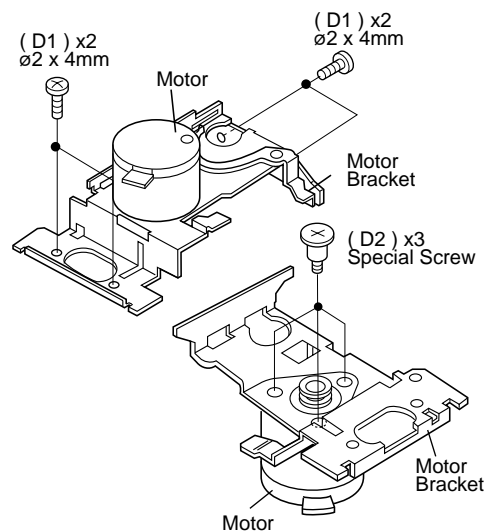


Figure 6-4

## ADJUSTMENT

### MECHANISM SECTION

• **Driving Force Check**

Torque Meter	Specified Value
Play: TW-2412	Tape 1: Over 60 g Tape 2: Over 50 g

• **Torque Check**

Torque Meter	Specified Value	
	Tape 1	Tape 2
Play: TW-2111	30 to 70 g.cm	27 to 60 g.cm
Fast Forward: TW-2231	Over 55 g.cm	55 to 120 g.cm
Rewind: TW-2231	Over 55 g.cm	55 to 120 g.cm

• **Head Azimuth**

Test Tape	Instrument Connection
MTT-114	Headphones Socket (Load resistance: 32 ohms)

• **Tape Speed (Normal only)**

Test Tape	Adjustment Point	Specified Value	Instrument Connection
MTT-111	Tape 1,2:VR102	3,000 ± 60 Hz	Headphones Socket (Load resistance: 32 ohms)

### DECK SECTION

• **Bias Oscillation**

• **Beat Cancel Switch: C**

Adjustment Point	Specified value	Instrument Connection
L301	100 kHz + 4 kHz	Pin 1 of CNS102

	Specified Value
Beat Cancel	A: 104 ± 4 kHz B: 94 ± 4 kHz C: 100 ± 4 kHz

• **Playback Amplifier Sensitivity Check**

Test tape	Specified value	Instrument Connection
MTT-118	2.5 V ± 3 dB	Speaker terminal (Load resistance: 8 ohms)

### TUNER SECTION

fL: Low-range frequency

fH: High-range frequency

• **FM IF/RF**

Test Stage	Specified Value/ Adjusting Point	Instrument Connection
FM IF	L9	Input: FM Antenna Output: Pin 9 of IC2
FM Detection	L10	
FM Band Coverage	fL: L1 fH: TC1	Input: Antenna Output: Headphone Socket (Load resistance: 32 ohms)
FM Tracking	fL(88.0 MHz): L2 fH(108 MHz): TC2	

• **AM IF/RF**

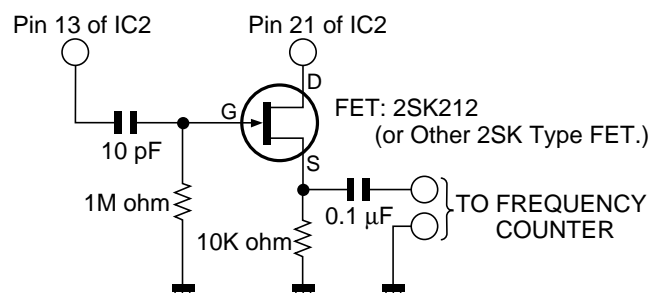
Test Stage	Specified Value/ Adjusting Point	Instrument Connection
AM IF	L11	Input: Antenna Output: Pin 9 of IC2
MW Band Coverage	fL: L6 fH: TC3	Input: Antenna Output: Headphone Socket (Load resistance: 32 ohms)
MW Tracking	fL(600 kHz): L3 fH(1,400 kHz):TC4	
SW1 Band Coverage	fL(2.3 MHz): L7 fH(7.3 MHz): TC5	
SW1 Tracking	fL(2.6 MHz): L4 fH(6 MHz): TC6	
SW2 Band Coverage	fL(7.3 MHz): L8 fH(22 MHz): TC7	
SW2 Tracking	fL(8.5 MHz): L5 fH(19 MHz): TC8	

• **VCO Frequency**

Adjustment Point	Specified value	Instrument Connection
VR1	76 kHz ± 200 Hz	Pin 13, Pin 21 and ground of IC2

**Note:**

After preparing the test circuit shown in Fig. 7, connect the Pin 13, Pin 21 and ground of the IC2 with the test circuit, and measure the value.



**Figure 7 VCO FREQUENCY TEST CIRCUIT**

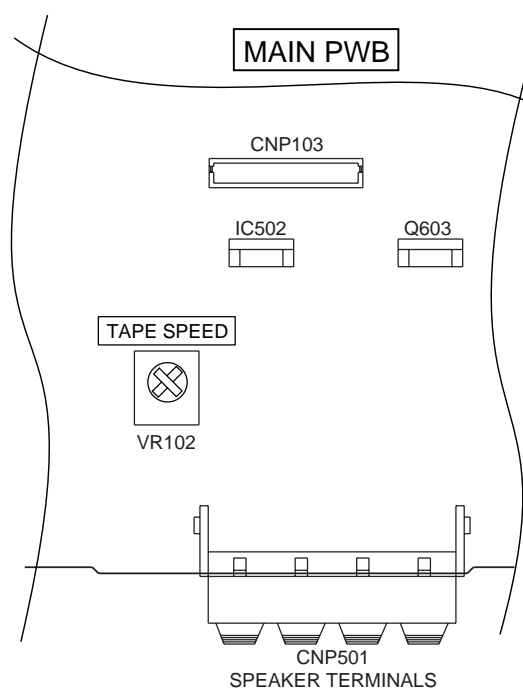
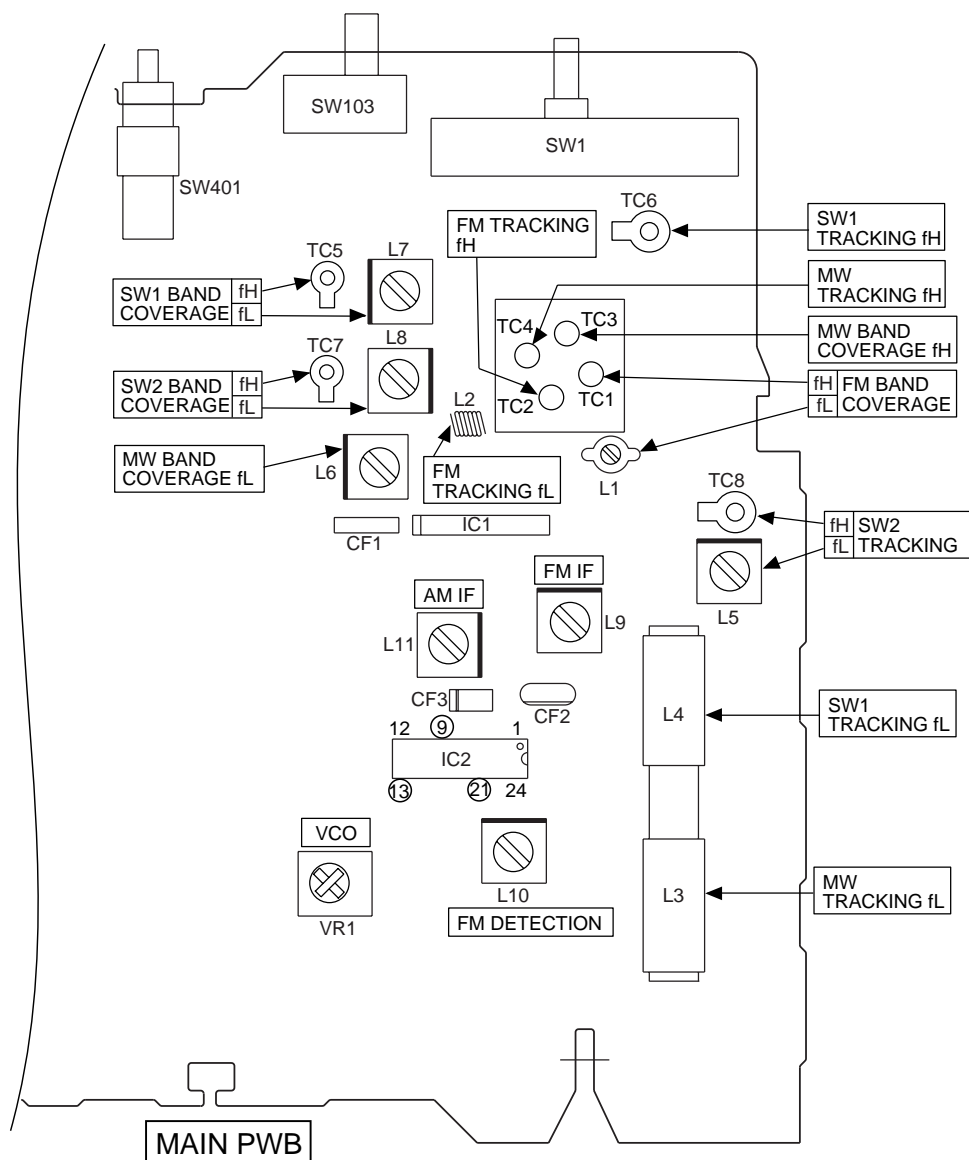


Figure 8 ADJUSTMENT POINTS



**CD SECTION**

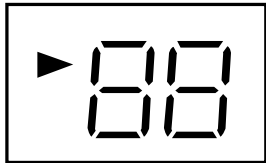
Since this CD system incorporates the following automatic adjustment function, when the pickup is replaced, it is not necessary to reajust it.

Since this CD unit does not need adjustment, the combination of PWB and laser pickup unit is not restricted.

**TEST MODE**

Start	While holding down the "PLAY" button, move the FUNCTION/POWER switch to "CD". (To serial No.006XXXXX) While holding down the "STOP" button, move the FUNCTION/POWER switch to "CD". (From serial No.007XXXXX)
Note	1. When the CD LID switch is in the OFF position, (CD LID is open) the unit will be able to enter the test mode. However, can use the "UP/CUE" and "DOWN/REVIEW" button only. 2. You can only move the pickup. 3. The LCD display should be the same as it is for normal CD operations.
Operation	The use of the "UP/CUE" button will move the pickup to the outermost position. The use of the "DOWN/REVIEW" button will move the pickup to the innermost position.

**LCD MODE**

Start	After connecting of the 10kΩ resistor between IC802 (27)pin and GND and holding down the "PLAY" button, move the FUNCTION/POWER switch to "CD".
Display	

**LASER LIGHTING CONFIRMATION**

1. Remove the front cabinet according to the disassembly method.
2. Short the TP of the Figure 9 to turn on the CD LID SW 810.
3. While holding down the "PLAY" button, move the FUNCTION/POWER switch to "CD".
4. Open the CD LID and press the PLAY button. The laser lights up for a few seconds. (At this time, the pickup lens moves up and down and adjusts the focus to check if there is a disc or not.)

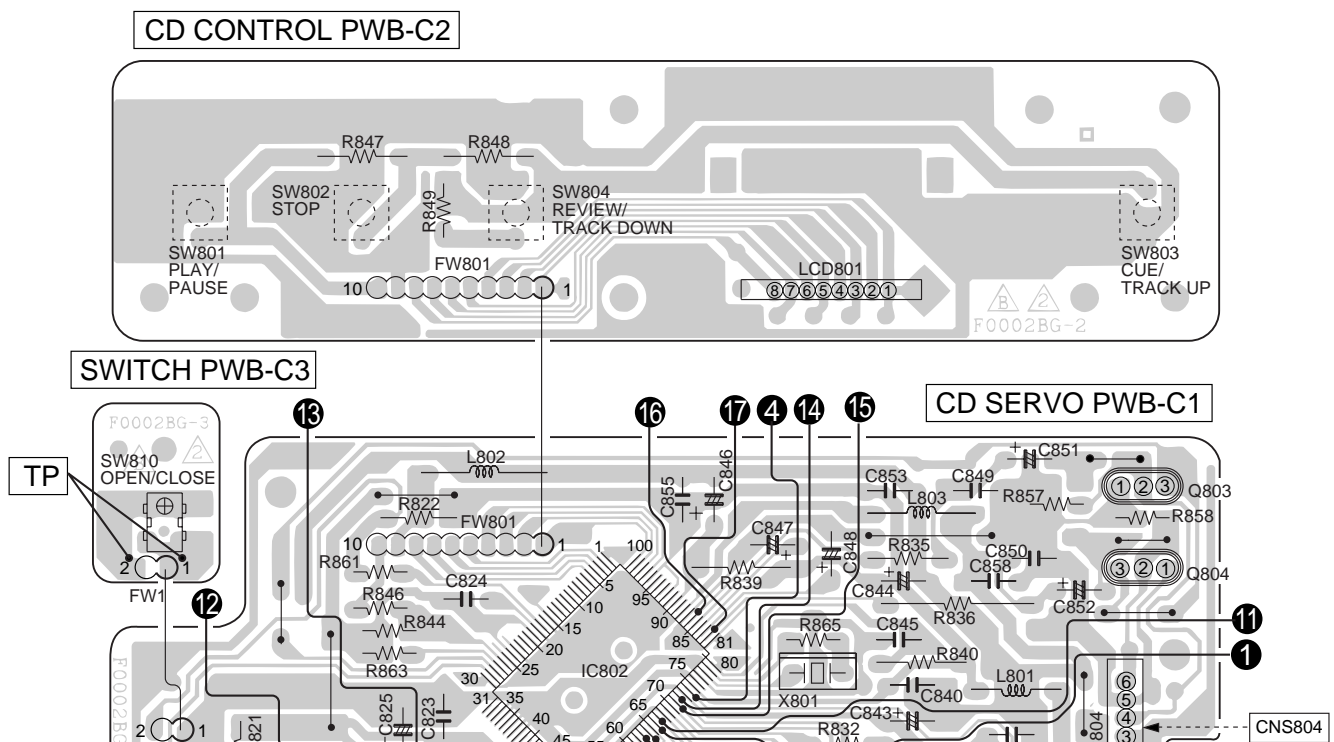


Figure 9

# GX-CD1200W

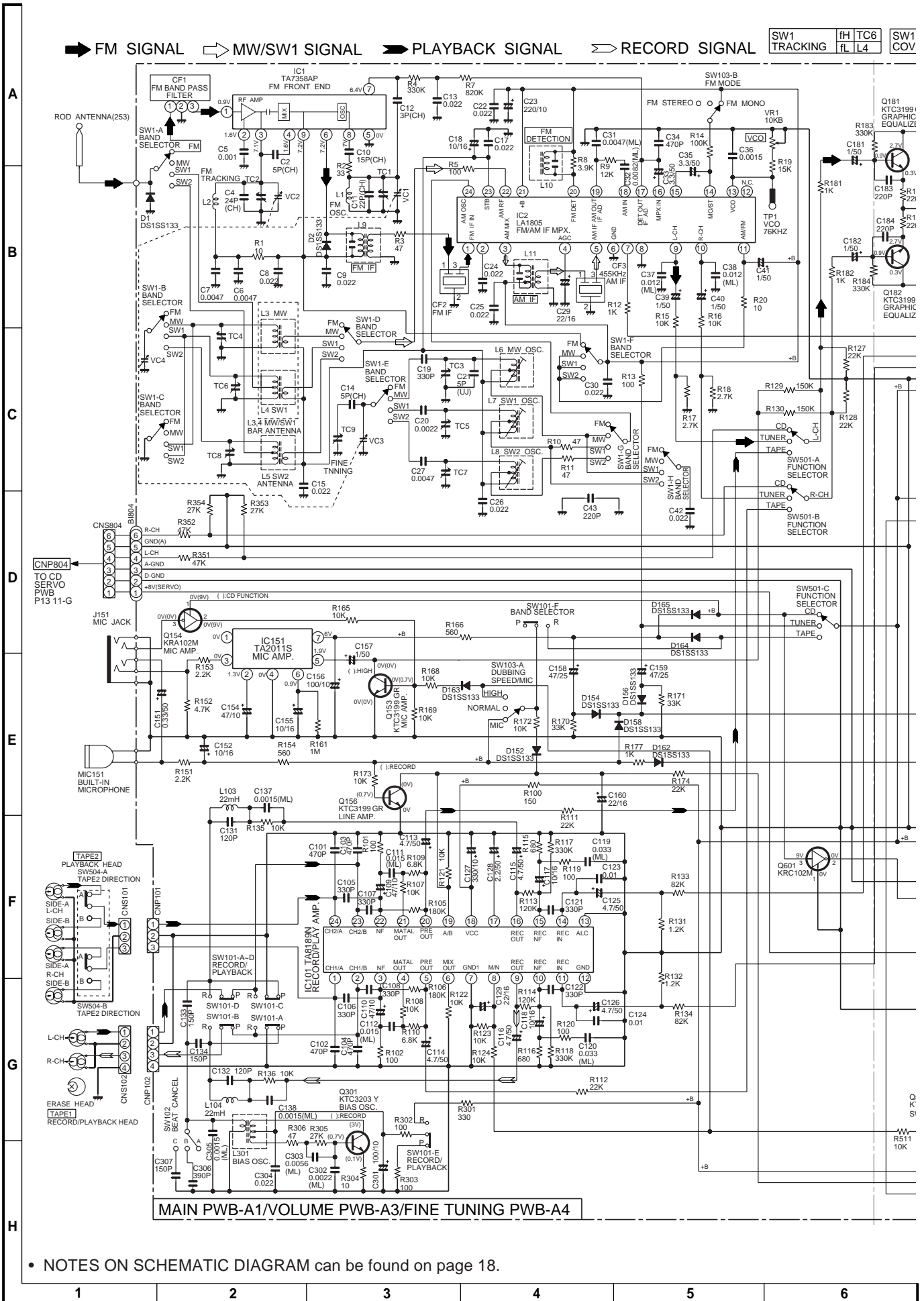
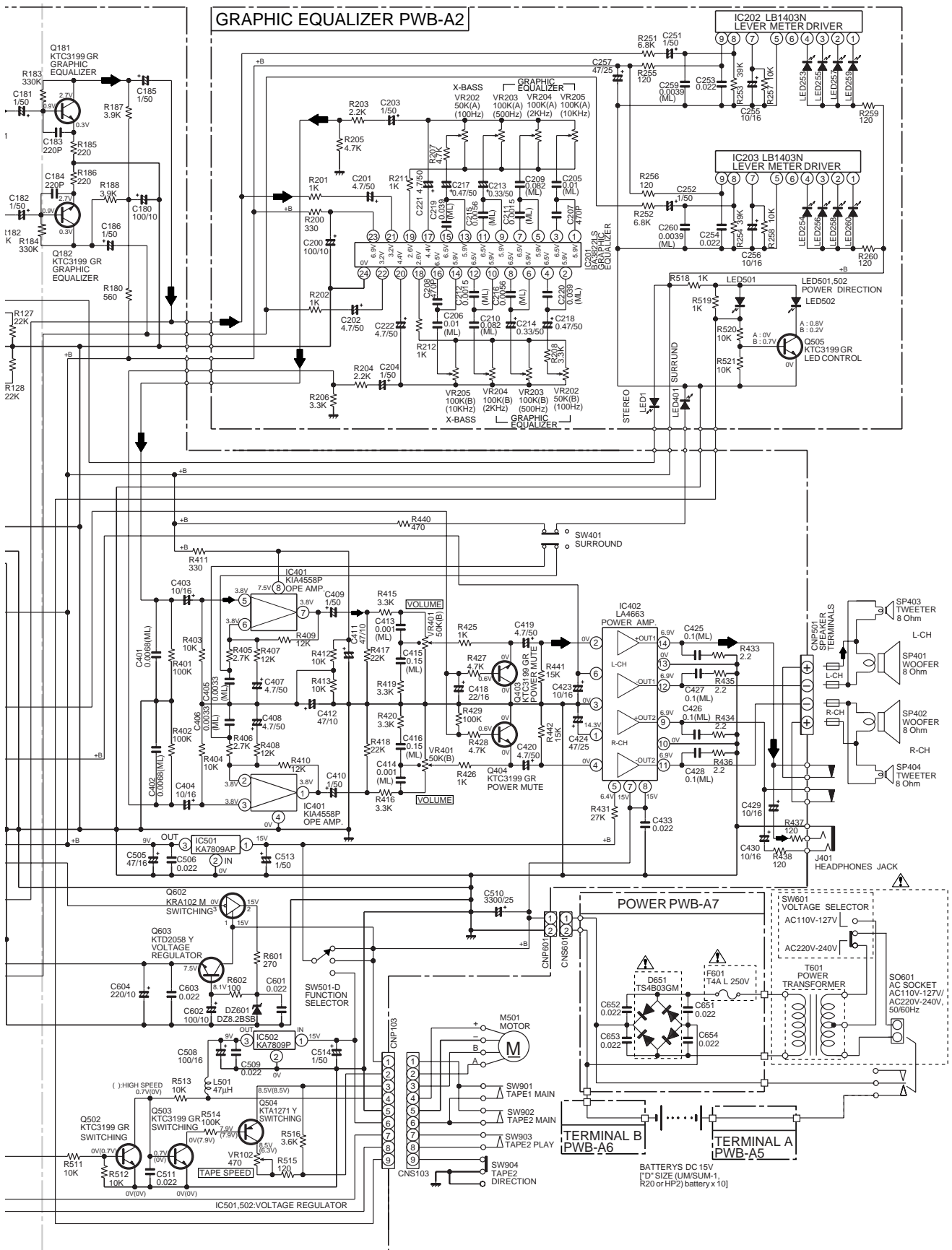


Figure 10 SCHEMATIC DIAGRAM (1/4)

fH TC6	SW1 BAND COVERAGE	fH TC5	MW TRACKING	fH TC4	FM TRACKING	fH TC2	SW2 TRACKING	fH TC8	SW2 BAND COVERAGE	fH TC7	MW BAND COVERAGE	fH TC3	FM BAND COVERAGE	fH TC1
fL L4		fL L7		fL L3		fL L2	fL L5		fL L8	fL L6		fL L6		fL L1



7	8	9	10	11	12
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Figure 11 SCHEMATIC DIAGRAM (2/4)

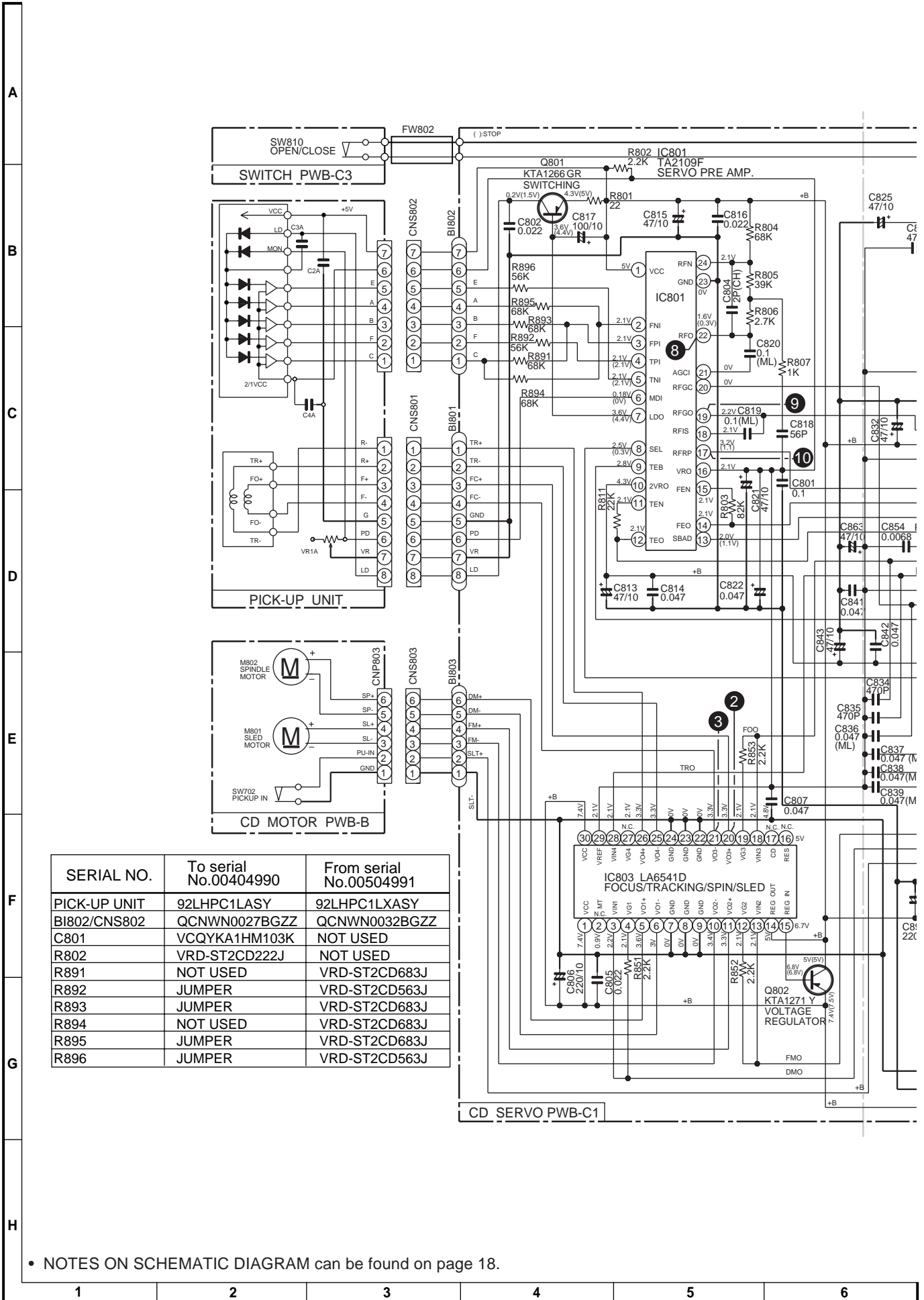
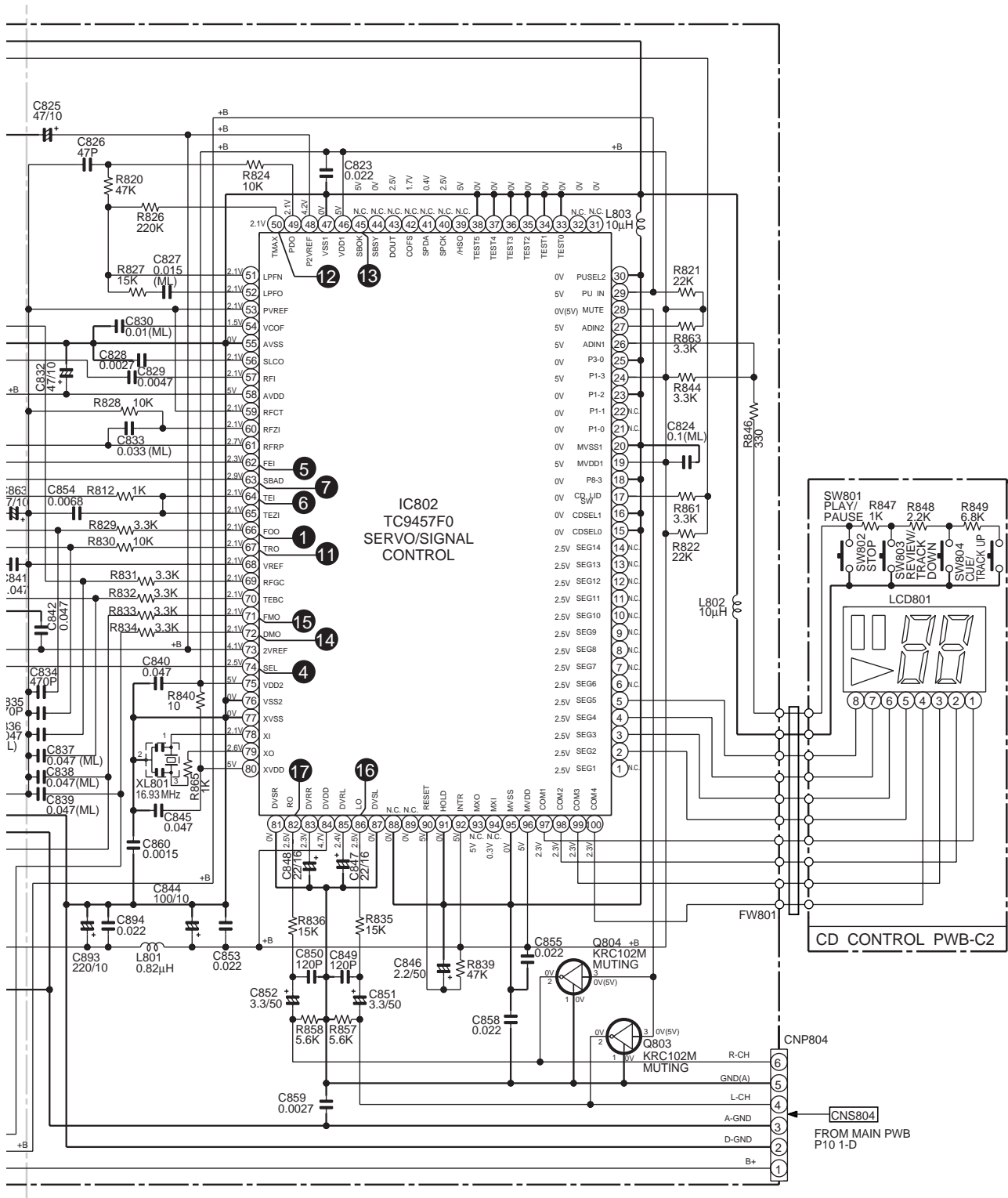


Figure 12 SCHEMATIC DIAGRAM (3/4)



• The numbers 1 to 17 are waveform numbers shown in page 19.

7	8	9	10	11	12
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Figure 13 SCHEMATIC DIAGRAM (4/4)

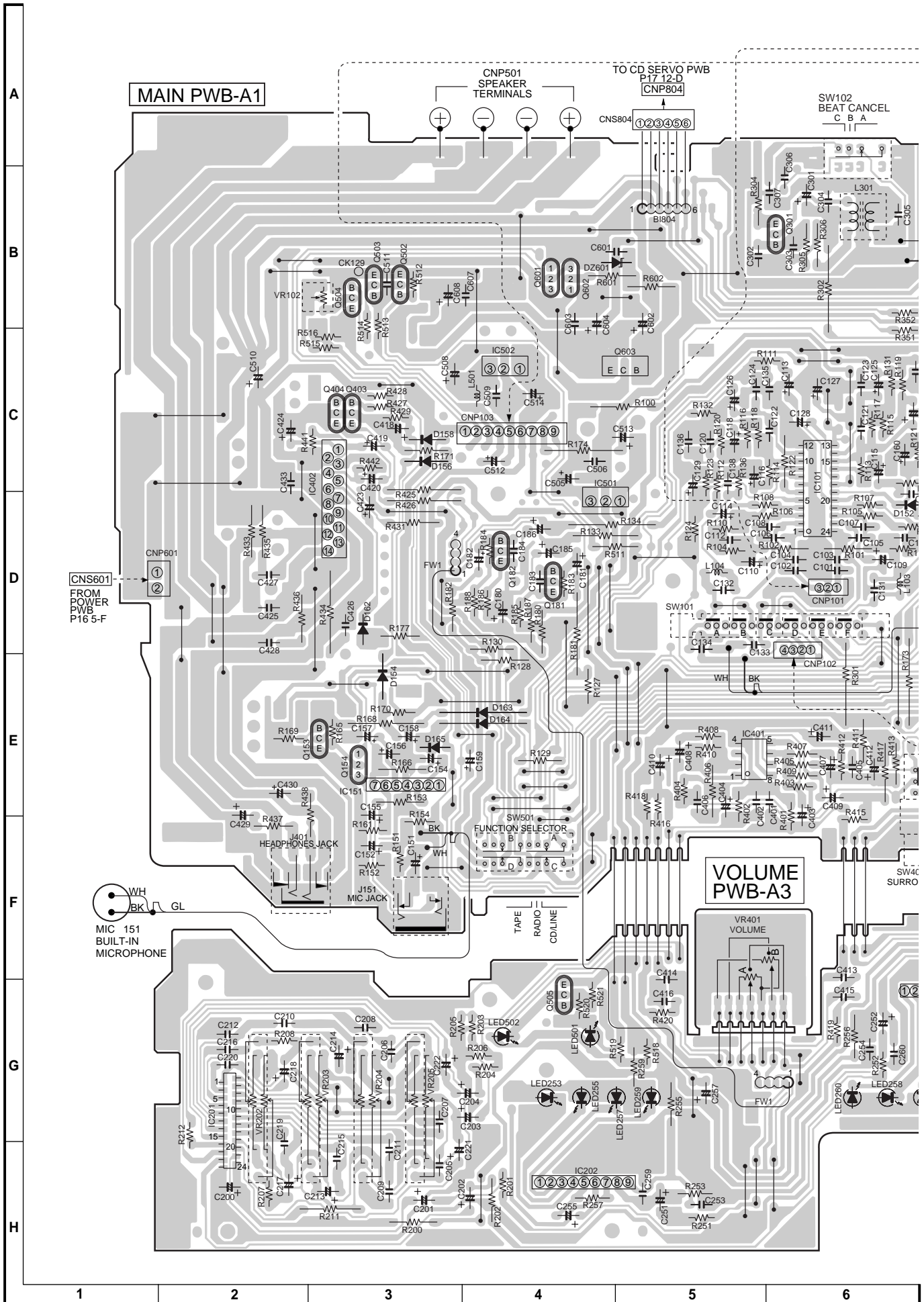
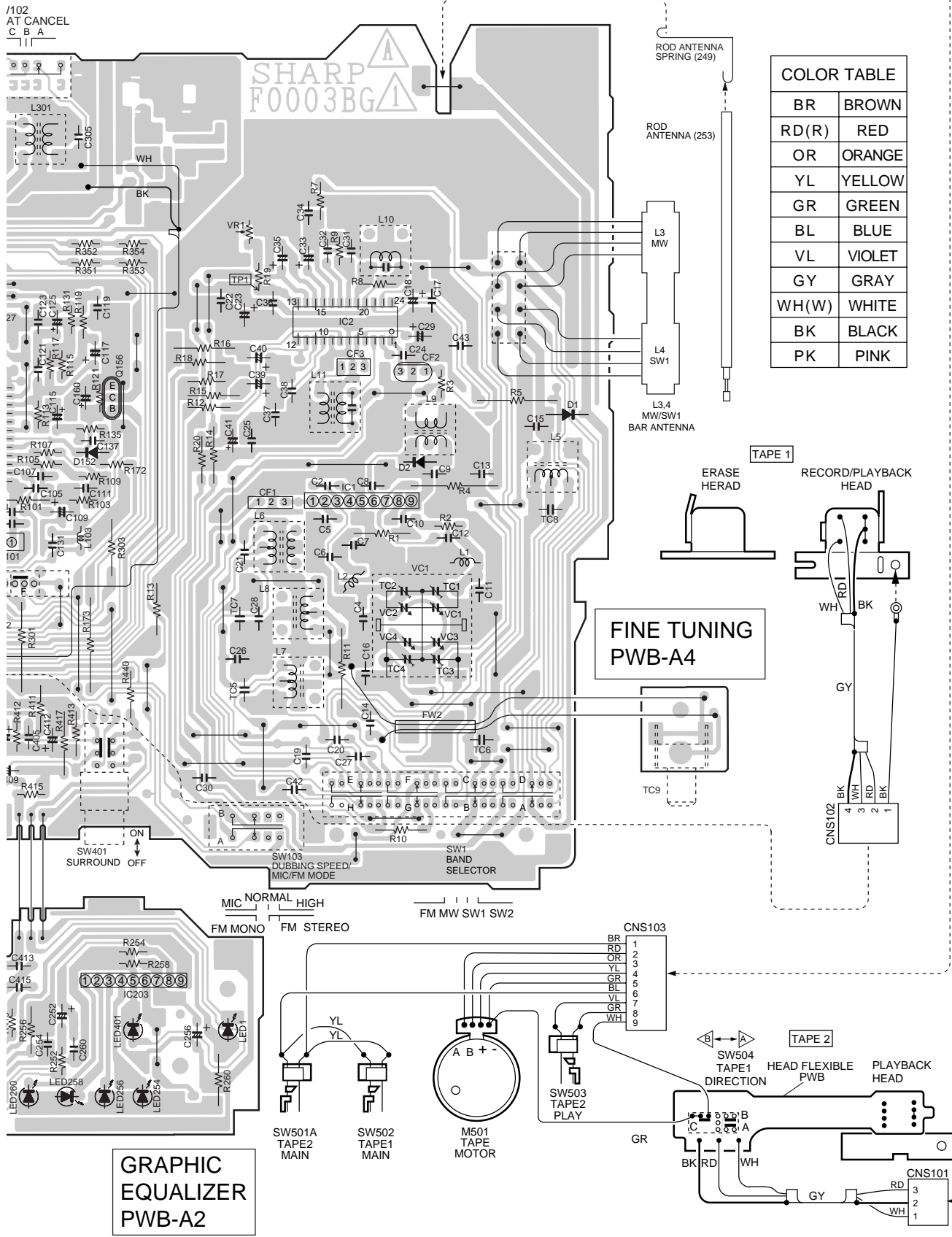


Figure 14 WIRING SIDE OF P.W.BOARD (1/4)

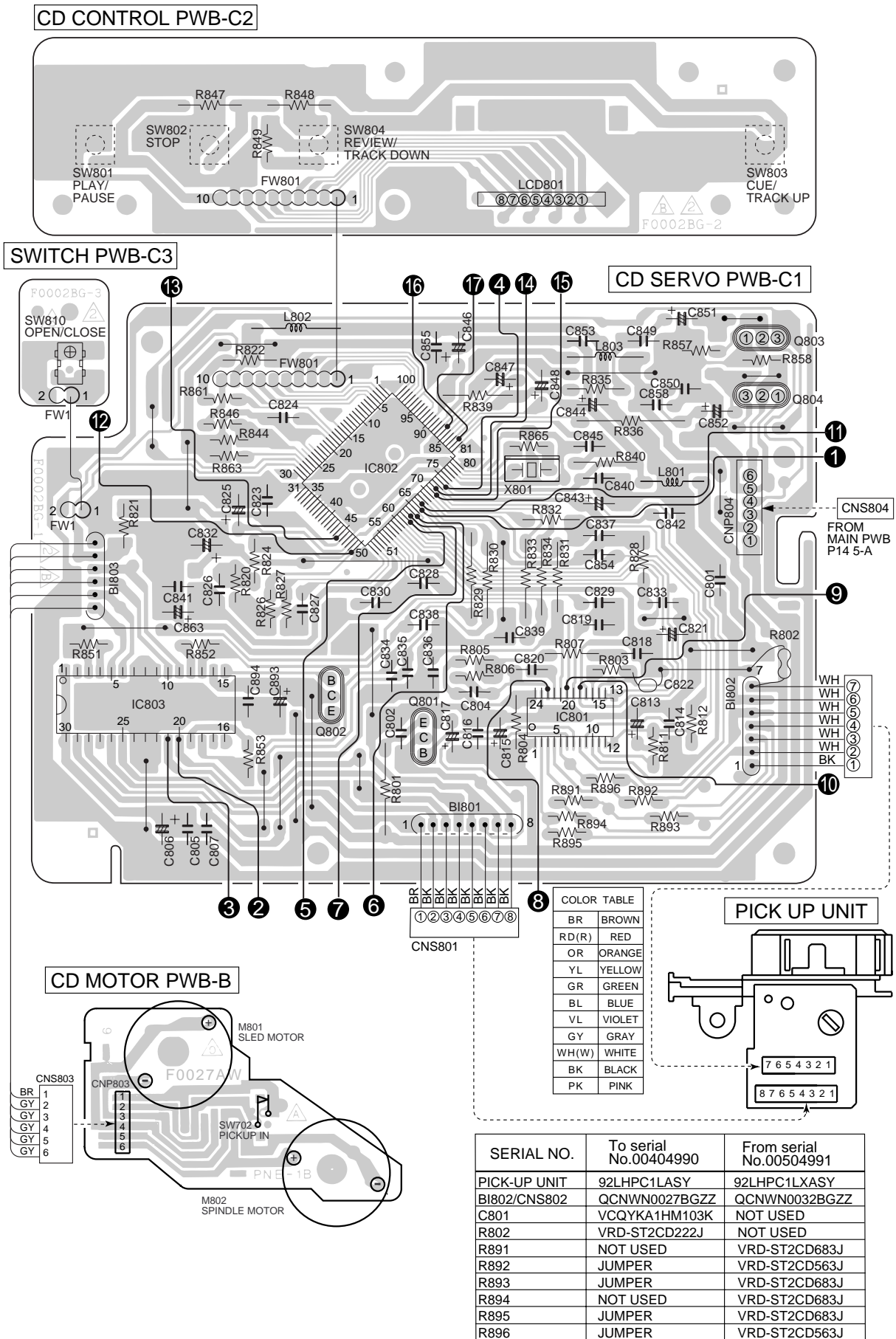


7	8	9	10	11	12
---	---	---	----	----	----

Figure 15 WIRING SIDE OF P.W.BOARD (2/4)







• The numbers ① to ⑰ are waveform numbers shown in page 19.

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

Figure 17 WIRING SIDE OF P.W.BOARD (4/4)

## NOTES ON SCHEMATIC DIAGRAM

- Resistor:  
To differentiate the units of resistors, The 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 an ohm resistor. The resistor designated "Fusible" is a fuse type resistor.
- 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),(RH),(UJ): Temperature compensation  
(ML): Mylar type  
(S): Styrol type
- The indicated voltage in each section is the one measured by Digital Multimeter between such a section and the chassis with no signal given.
- Schematic diagram and Wiring Side of P.W. Board for this model are subject to change for improvement without prior notice.
- 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	BAND SELECTOR	FM
SW101	RECORD/PLAYBACK	PLAYBACK
SW102	BEAT CANCEL	A
SW103	DUBBING SPEED/MIC/ FM MODE	MIC/FM MONO
SW401	SURROUND	ON
SW501	FUNCTION SELECTOR	CD/LINE
SW601	VOLTAGE SELECTOR	AC220-240V
SW702	PICKUP IN	OFF
SW902	TAPE 2 MAIN	OFF
SW901	TAPE 1 MAIN	OFF
SW903	TAPE 2 PLAY	OFF
SW904	TAPE 2 DIRECTION	A

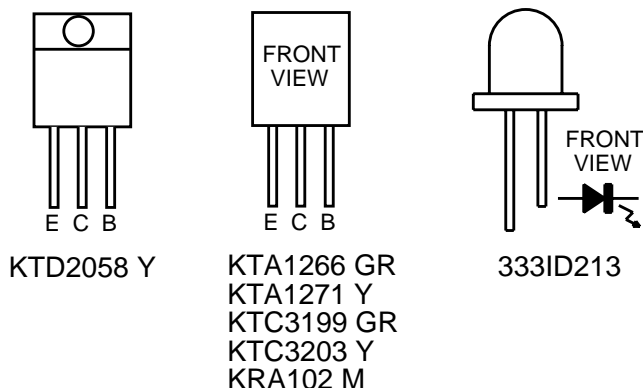


Figure 18 TYPES OF TRANSISTOR AND LED

## VOLTAGE

### IC2 (LA1805)

PIN	1	2	3	4	5	6	7	8	9	10	11	12
FM	1.6V	1.6V	7.2V	0.5V	1.6V	0V	7.6V	0V	2.3V	2.3V	6.5V	0.9V
MW/SW	1.6V	1.6V	8V	0.8V	1.6V	0V	7.6V	0V	2.4V	2.4V	8V	0.9V
PIN	13	14	15	16	17	18	19	20	21	22	23	24
FM	1V	2.2V	1V	1.7V	1.6V	1.6V	0.4V	7.2V	7.2V	0.5V	1.6V	1.4V
MW/SW	0V	1.8V	1.5V	1.7V	1.7V	1.6V	0.7V	8V	8V	1.6V	1.6V	1.6V

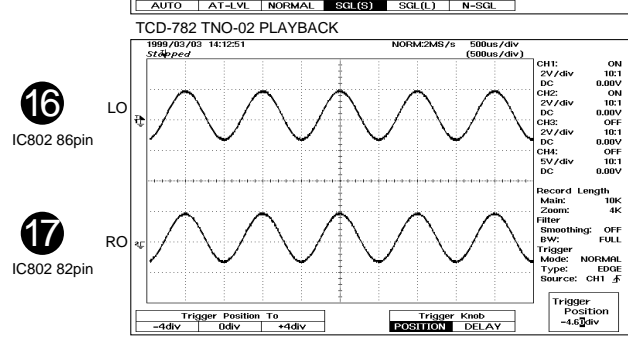
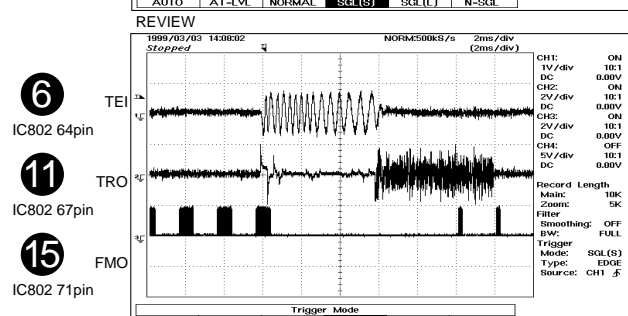
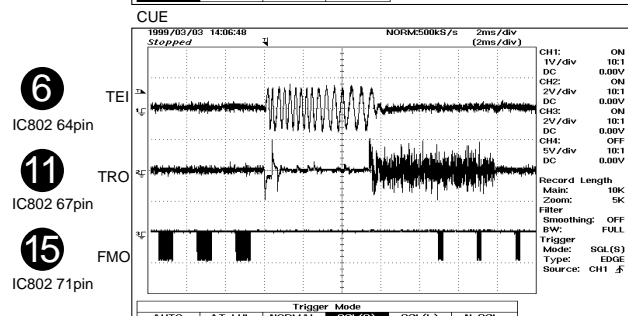
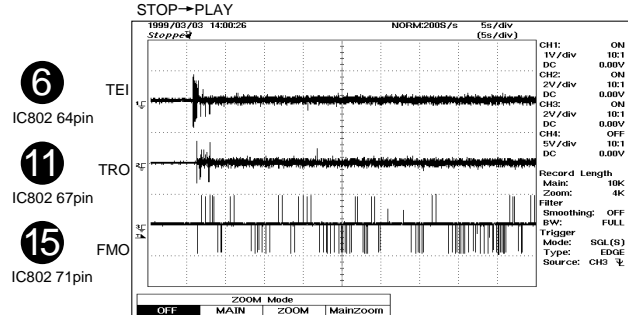
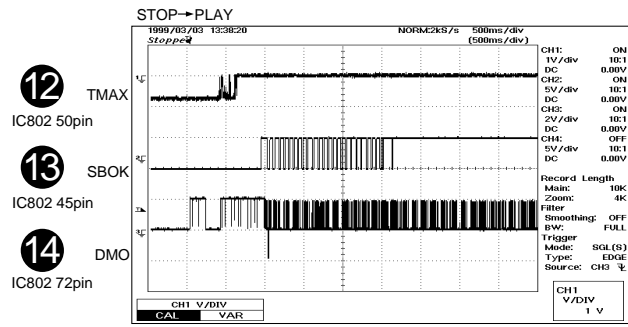
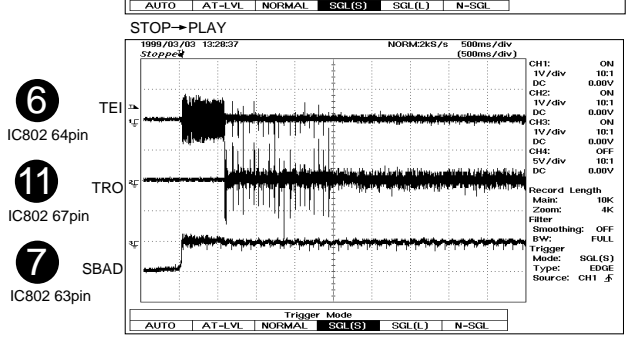
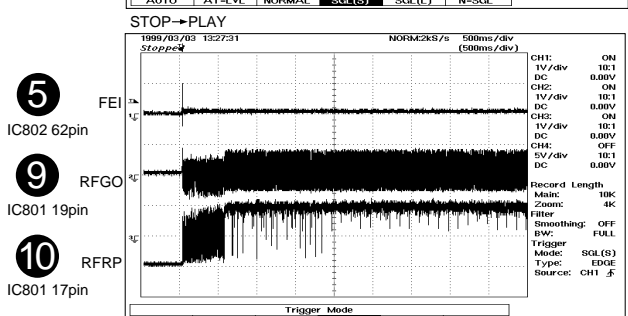
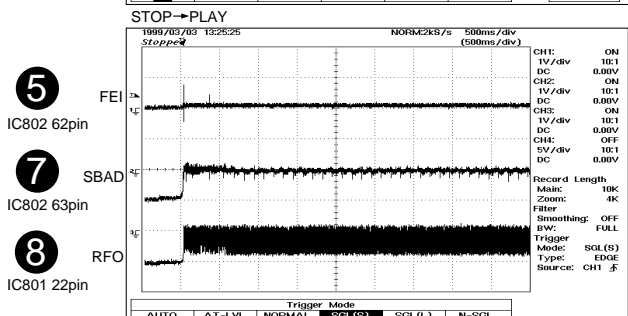
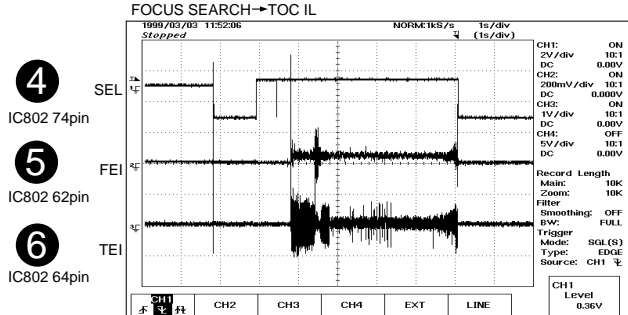
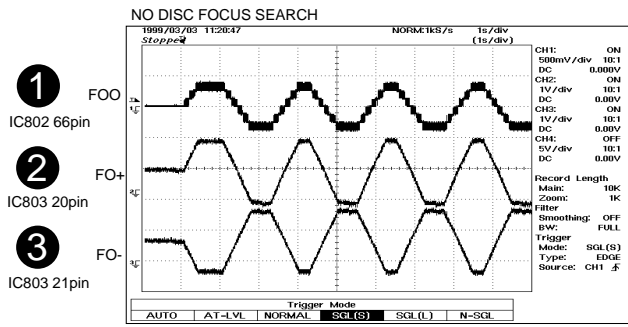
### IC101 (TA8189N)

PIN	1	2	3	4	5	6	7	8	9	10	11	12
PLAY	0V	0V	1.3V	1.4V	1.4V	1.3V	0V	0V	1.8V	1.3V	0V	0V
REC	0V	0V	1.3V	1.4V	1.4V	1.3V	0V	0V	1.8V	1.3V	0V	0V
PIN	13	14	15	16	17	18	19	20	21	22	23	24
PLAY	0.9V	0V	1.3V	1.8V	1.4V	7.4V	1.4V	1.4V	1.4V	1.3V	0V	0V
REC	0.9V	0V	1.3V	1.8V	1.4V	7.4V	0V	1.4V	1.4V	1.3V	0V	0V

### IC202/203 (LB1403N)

PIN	1	2	3	4	5	6	7	8	9
LED OFF	7.7V	7.7V	7.7V	7.7V	0V	7.7V	0V	0V	8.6V
LED ON	1V	1V	1V	1V	0V	1V	2.4V	0V	8.6V

# WAVEFORMS OF CD CIRCUIT



## TROUBLESHOOTING (CD SECTION)

### 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 troubleshooting 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.

Dust gradually accumulates on the objective lens during use, and it may degrade performance.

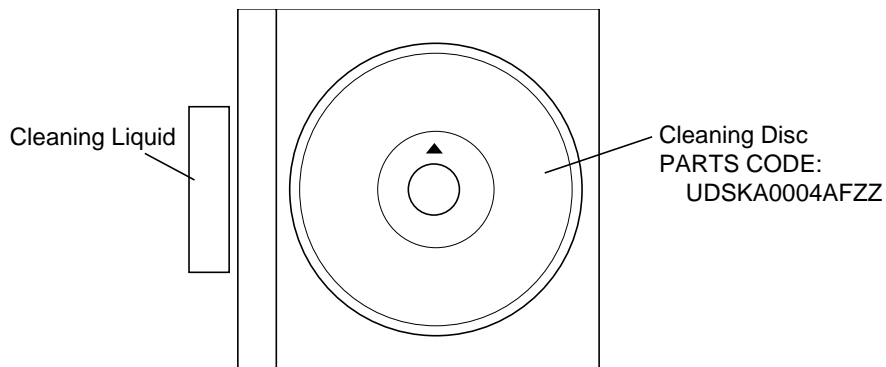
To avoid this problem, use a cleaning disc designed for CD optical pickup lenses.

### HOW TO USE

1. Using the brush in the cleaner cap, apply 1 or 2 drops of the cleaning fluid to the brush on the CD cleaner disc which has ▲ the mark next to it.
2. Place the CD cleaner disc onto the CD disc tray with the brush side down, then press the play button.
3. You will hear music for about 20 seconds and the CD player will automatically stop. If it continues 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 replace 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 player or on computer CD-ROM drives.
- All rights reserved. Unauthorized duplicating, broadcasting and renting product is prohibited by law.



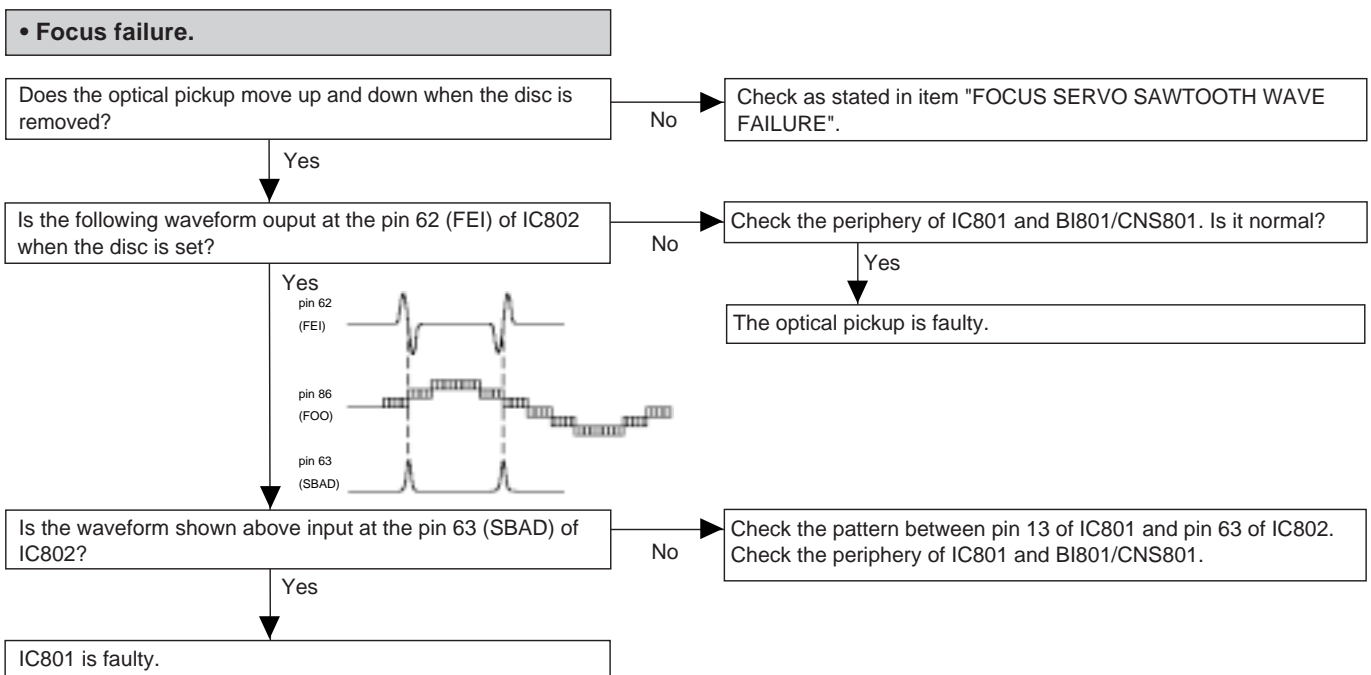
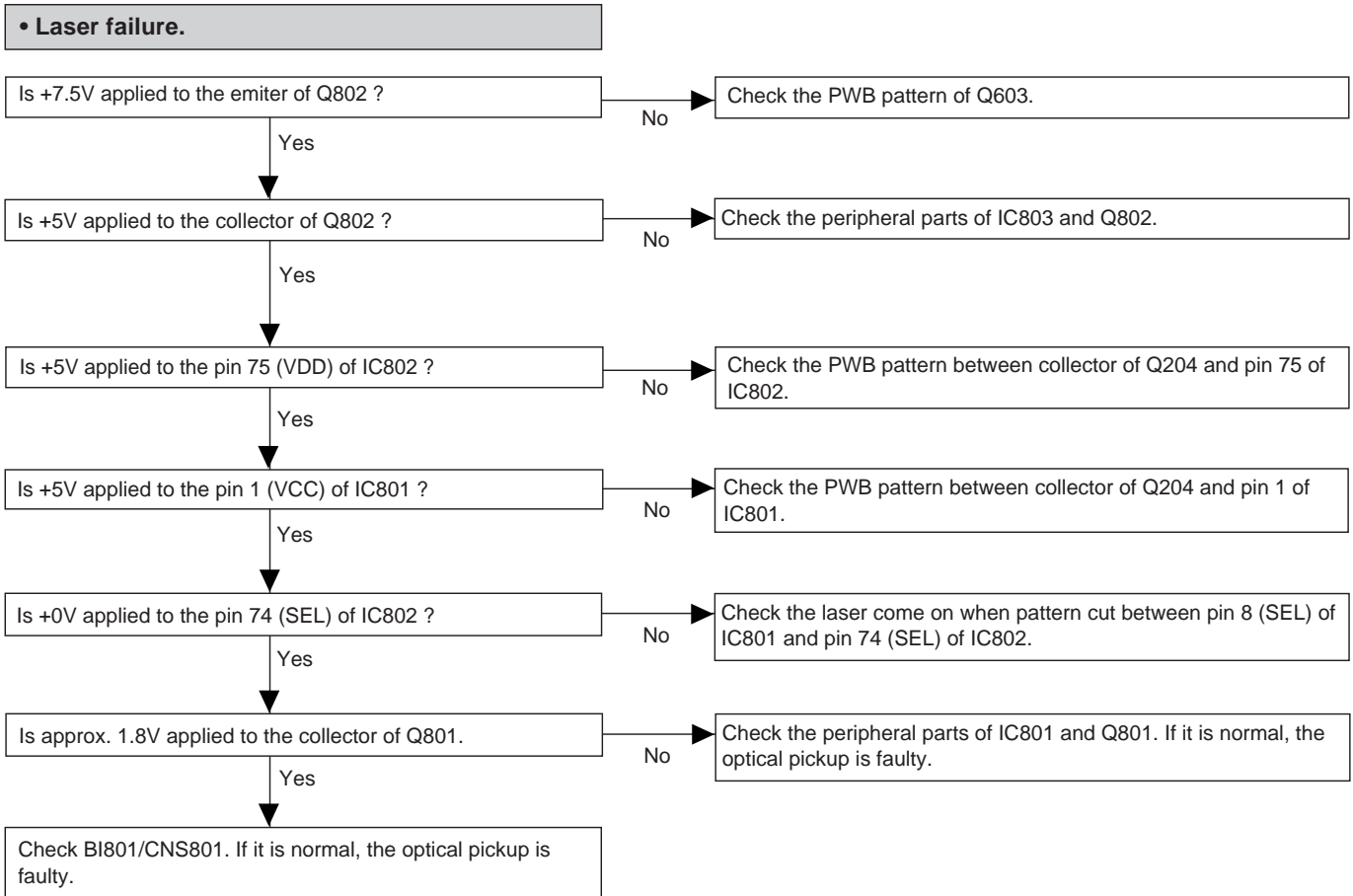
### • The CD function will not work.

The CD operating keys don't work.

Check the power supply, 16.93 MHz clock, and reset terminal.

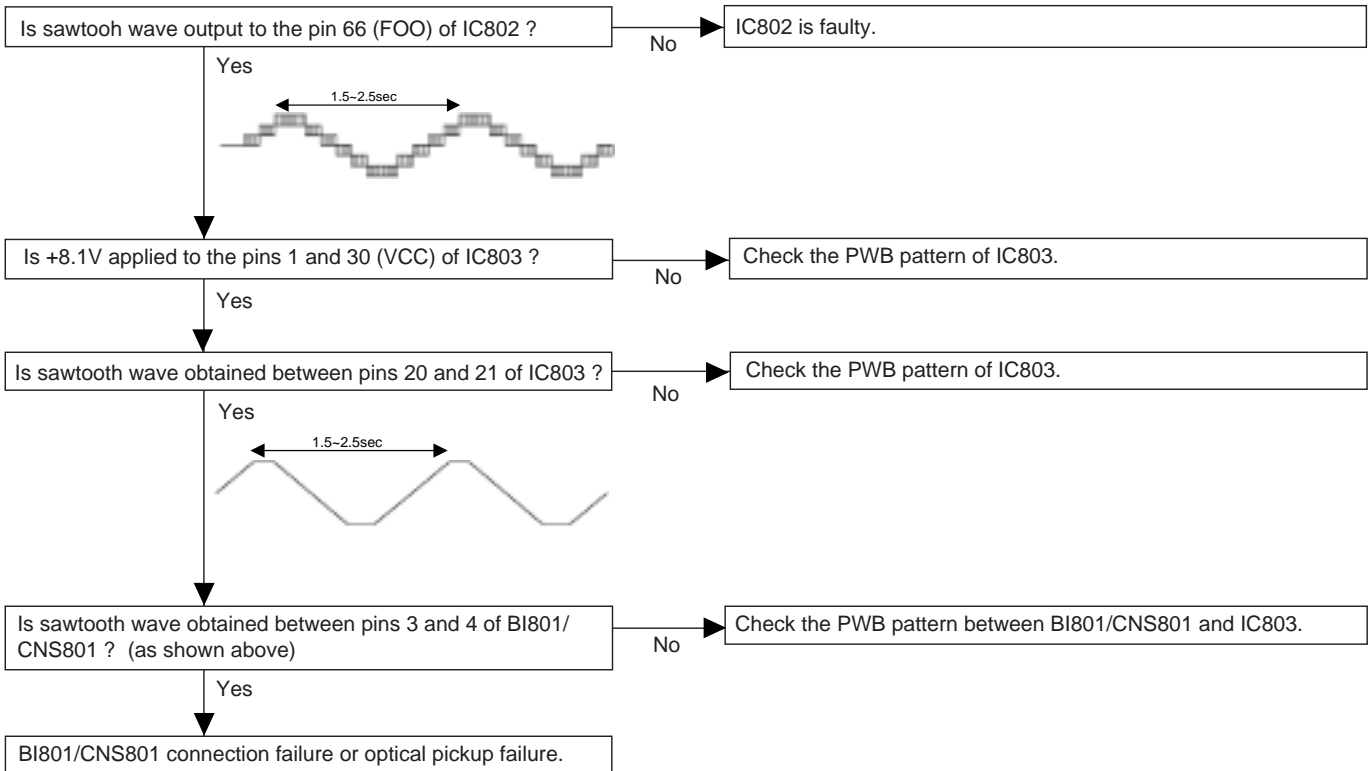
Check the pickup-in switch (SW702) position.

Check the Focus system.

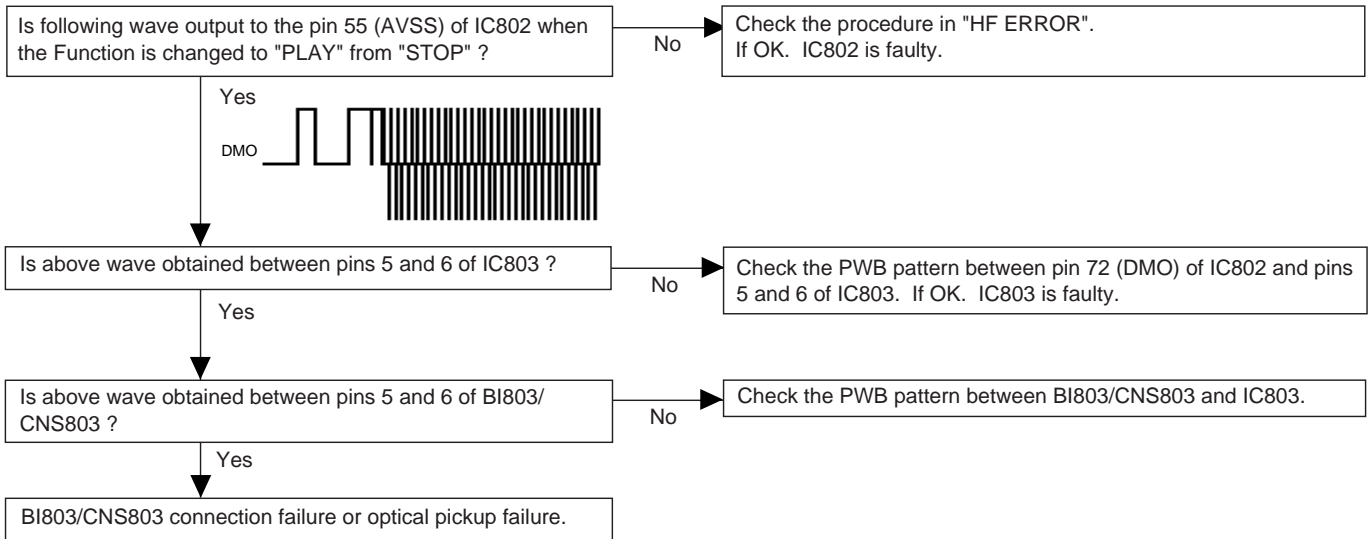


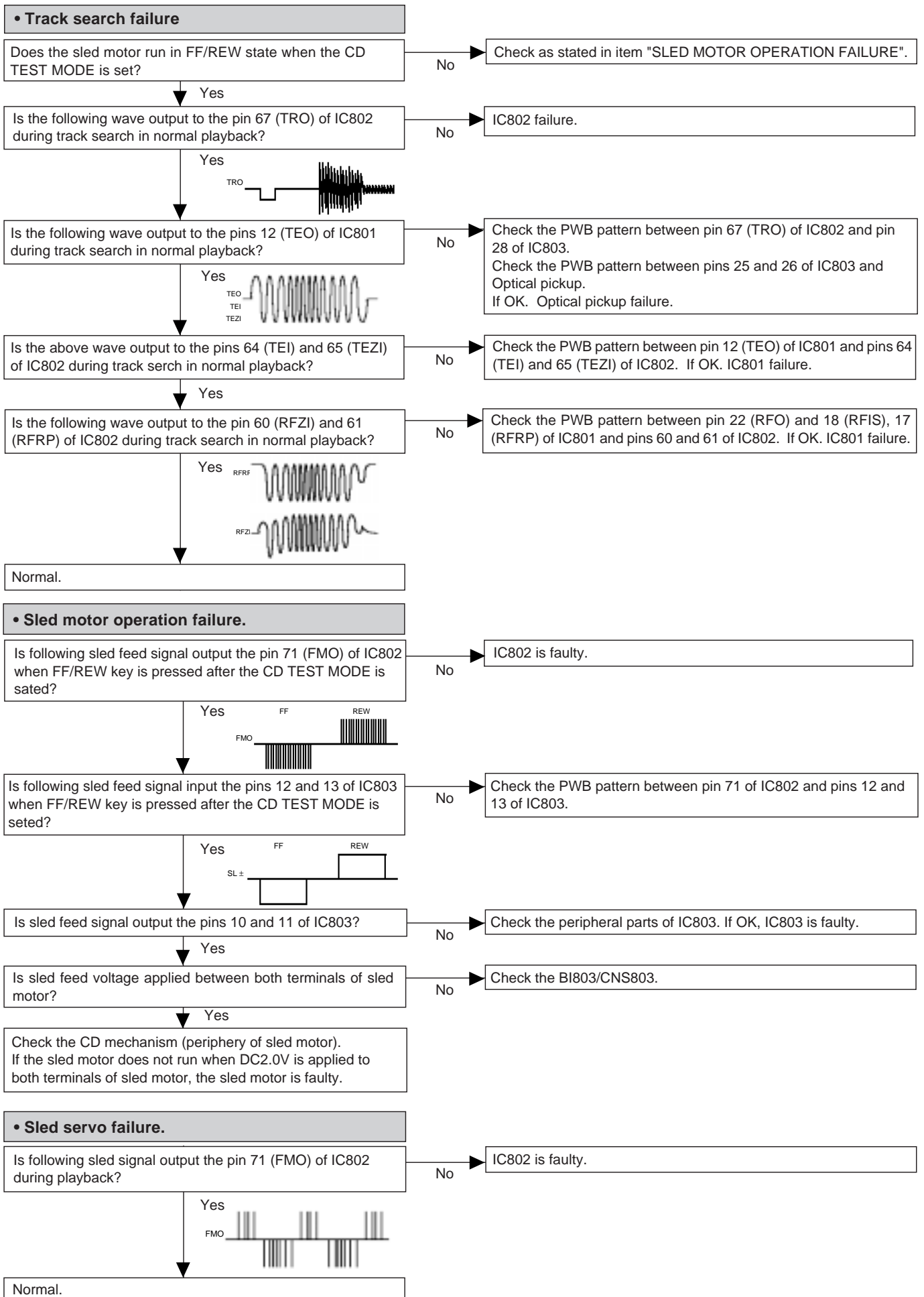
# GX-CD1200W

## • Focus servo sawtooth wave failure.



## • Spindle motor clv servo failure.





## FUNCTION TABLE OF IC

## IC802 VHiTC9457F0-1: Servo/Signal Control (TC9457F0) (1/4)

Pin No.	Port Name	Terminal Name	Input/Output	Function
1*	(OT5)S1	SEG1	Output	Segment signal output to the LCD panel. Up to 72 segments in a matrix with COM1 to COM4 can be displayed. All of the S1 to S18 pins can be switched for output ports by a program. Also, the S15 to S18 pins each can be switched for I/O ports individually. When set for I/O ports, these pins become Nch open-drain output. Furthermore, the S11 to S14 and the P8-0 to P8-3 pins can be switched for use as CD signal (CLCK to IPF) input/output pins by a program. <ul style="list-style-type: none"> <li>• CLCK: Subcodes P thru W data readout clock input/output. Selected between input and output by a command.</li> <li>• DATA: Subcodes P thru W data output.</li> <li>• SFSY: Playback system frame sync signal output.</li> <li>• LRCK: Channel clock (44.1kHz) output. It outputs a low for L channel and a high for R channel. Polarity can be inverted by a command.</li> <li>• BCK : Bit clock (1.4122MHz) output.</li> <li>• AOUT: Audio data output.</li> <li>• MBOV: Buffer memory-over signal output. It outputs a high when buffer overflows.</li> <li>• IPF : Correction flag output. When AOUT is C2 correction output, it outputs a high indicating that correction is impossible.</li> </ul>
2	(OT6)S2	SEG2	Output	
3	(OT7)S3	SEG3	Output	
4	(OT8)S4	SEG4	Output	
5	(OT9)S5	SEG5	Output	
6*	(OT10)S6	SEG6	Output	
7*	(OT11)S7	SEG7	Output	
8*	(OT12)S8	SEG8	Output	
9*	(OT13)S9	SEG9	Output	
10*	(OT14)S10	SEG10	Output	
11*	(CLCK/OT15)S11	SEG11	Output	
12*	(DATA/OT16)S12	SEG12	Output	
13*	(SFSY/OT17)S13	SEG13	Output	
14*	(LRCK/OT18)S14	SEG14	Output	
15	(BCK/S15)P8-0	CDSEL0	Output	
16	(AOUT/S16)P8-1	CDSEL1	Output	
17	(MBOV/S17)P8-2	CD LID SW	Output	
18	(IPF/S18)P8-3	DOOR OUT	Output	
19	MVDD	MVDD1	—	Power supply pins. Normally, apply a voltage of 4.5 to 5.5V to VDD. In a backup state (when the CKSTP instruction executed), the device's current consumption is reduced to 1μA or less, allowing for the supply voltage to be lowered to 2.0V. The device is reset and the program starts from address 0 when a voltage of 2.7V or more is applied to this pin when it is at 0V (power-on reset).
20	MVSS	MVSS1	—	
21*	(K0)P1-0	TRAY CLOSE	Input	4-bit CMOS I/O ports. These ports can be set for input or output bit for bit by a program. These pins can be pulled up to VDD or down to GND by program. Therefore, they can be used as key input pins. Also, when they are set for I/O port, a change of state in this input can be used to clear the clock stop or wait mode.
22*	(K1)P1-1	TRAY OPEN	Input	
23	(K2)P1-2	PUSEL0	Input	
24	(K3)P1-3	PUSEL1	Input	
25	(DCREF)P3-0	DISPLAY	Input	5-bit CMOS I/O ports. These ports can be set for input or output bit for bit by a program. The P3-0 to P4-0 pins serve dual purposes as analog inputs for the internal 6-bit 4-channel A/D converters. The internal A/D converters can complete conversion in 6 instruction cycles using a successive approximation method. The required pins can be set for A/D analog input bit for bit by a program. P3-0 can be set for reference voltage input, and the internal power supply (MVDD) can be used for this reference voltage. The P4-0 pin serves dual purposes as a buzzer output pin. The buzzer output can be selected from 8 frequencies, 0.625 to 3kHz. Each selected frequency can be output in one of four modes: continuous, single, 10Hz intermittent, and 10Hz intermittent at 1Hz interval. Whether or not to use and how to control the A/D converter and buzzer all can be set by a program.
26	(ADin1)P3-1	ADIN1	Input	
27	(ADin2)P3-2	ADIN2	Input	
28	(ADin3)P3-3	MUTE	Input	
29	(BUZR/ADin4)P4-0	PU IN	Input	

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



## IC802 VHiTC9457F0-1: Servo/Signal Control (TC9457F0) (2/4)

Pin No.	Port Name	Terminal Name	Input/Output	Function
30 31*	(S12)P4-1 (SO/S11/ SDA)P4-2	PUSEL2 NC	Input Input/Output	3-bit CMOS I/O ports. These ports can be set for input or output bit for bit by a program. These pins serve dual purposes as input or output pins for the serial interface circuit (SIO). The SIO is a 2-wire/3-wire compatible serial interface. 4 or 8 bits of serial data, beginning with the MSB or LSB, are serially output from the SO/SDA, pin at each clock edge on the SCK/SCL pin, and the data on S11 or S12 pin is serially input to the device. The serial clock (SCK/SCL) allows selection between the internal (450/225/150/75 kHz) and external sources and a selection of the active edge, rise or fall. Moreover, since the clock and data can be output via Nch open-drain outputs, various, device controls and communication between controllers can be greatly facilitated. When an SIO interrupt is enabled, an interrupt is generated at completion of SIO execution and the program jumps to address 4. All inputs to SIO contain a Schmitt trigger circuit.
32*	(SCK/SCL) P4-3	NC	Input/Output	
33 34 35 36 37 38	TEST0 TEST1 TEST2 TEST3 TEST4 TEST5	TEST0 TEST1 TEST2 TEST3 TEST4 TEST5	Input Input Input Input Input Input	
39* 40* 41* 42*	(OT19)/HSO (OT20)SPCK (OT21)SPDA (OT22)COFS	/HSO SPCK SPDA COFS	Output Output Output Output	CD control output pins. • /HSO: Playback speed mode output. High = normal speed; Low = double speed. • SPCK: Processor status signal readout clock output (176.4kHz) • SPDA: Processor status signal output. • COFS: Correction system frame clock output (7.35kHz) These pins can be switched for output ports by a program.
43*	DOUT	DOUT	Input/Output	Digital output pin.
44*	SBSY	SBSY	Input/Output	Subcode block sync output pin. It outputs a high at the S1 position when subcode sync is detected.
45*	SBOK	SBOK	Input/Output	Subcode Q data CRCC determination result output pin. It outputs a high when CRCC check is found OK.
46 47	VDD VSS	VDD1 VSS1	Input/Output Input/Output	CD unit's digital block power supply pins. Normally, apply 5V to VDD. When not using a CD (CD off), this power supply can be turned off, with only the controller power supply kept active, so that the controller alone is operating. In this case, the CD off bit must be set to 1. When this bit is set to 1, pins 11 through 18 and pins 39 through 42 all are changed for output ports if they have been set for CD control signal input/output pins.
48	P2VREF	P2VREF	Input/Output	PLL block-2 VREF pin.
49	PDO	PDO	Input/Output	This pin outputs a phase error between EFM and PLCK signals.
50	TMAX	TMAX	Input/Output	TMAX detection result output pin. Selected by command bit TMPS. Longer than preset period: Outputs P2VREF. Shorter than preset period: Low level (Vss). Within preset period: High impedance.
51	LPFN	LPFN	Input/Output	Inverted input of low-pass filter amp.
52	LPFO	LPFO	Input/Output	Output of low-pass filter amp.
53	PVREF	PVREF	Input/Output	PLL block VREF pin.
54	VCOF	VCOF	Input/Output	VCO filter pin.
55	AVSS	AVSS	Input/Output	Analog block ground pin.
56	SLCO	SLCO	Input/Output	DAC output pin for data slice level generation.
57	RFI	RFI	Input/Output	RF signal input pin.
58	AVDD	AVDD	Input/Output	Analog block power supply pin.
59	RFCT	RFCT	Input/Output	RFRP signal center level input pin.
60	RFZI	RFZI	Input/Output	RFRP zero-cross input pin.
61	RFRP	RFRP	Input/Output	RF ripple signal input pin.
62	FEI	FEI	Input/Output	Focus error signal input pin.

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

## GX-CD1200W

### IC802 VHiTC9457F0-1: Servo/Signal Control (TC9457F0) (3/4)

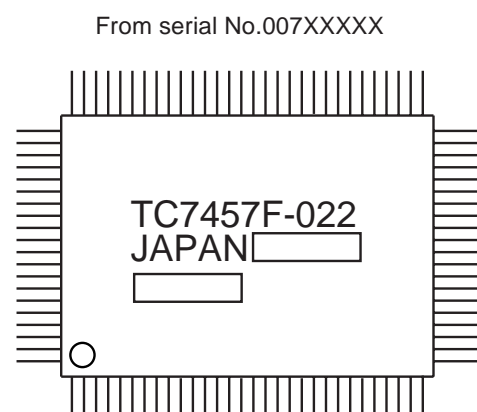
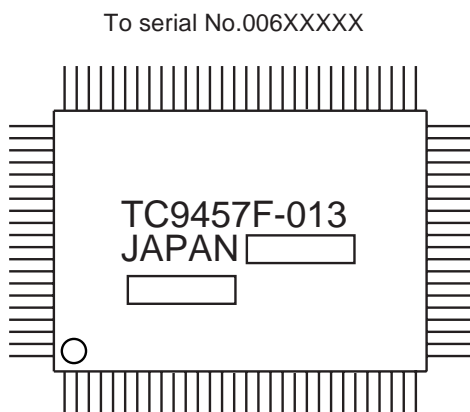
Pin No.	Port Name	Terminal Name	Input/Output	Function
63	SBAD	SBAD	Input/Output	Subbeam add signal input pin.
64	TEI	TEI	Input/Output	Tracking error input pin. This input is read when tracking servo is on.
65	TEZI	TEZI	Input/Output	Tracking error zero-cross input pin.
66	FOO	FOO	Input/Output	Focus equalizer output pin.
67	TRO	TRO	Input/Output	Tracking equalizer output pin.
68	VREF	VREF	Input/Output	Analog reference power supply pin.
69	RFGC	RFGC	Input/Output	RF amplitude adjusting control signal output pin. It outputs 3-level PWM signals. (PWM carrier = 88.2kHz)
70	TEBC	TEBC	Input/Output	Tracking balance control signal output pin. It outputs 3-level PWM signals. (PWM carrier = 88.2kHz)
71	FMO	FMO	Input/Output	Focus equalizer output pin. It outputs 3-level PWM signals. (PWM carrier = 88.2kHz)
72	DMO	DMO	Input/Output	Disc equalizer output pin. It outputs 3-level PWM signals. (PWM carrier = DSP block 88.2kHz, synchronized to PXO)
73	2VREF	2VREF	Input/Output	Analog reference power supply pin. (2 x VREF)
74	SEL	SEL	Input/Output	APC circuit on/off signal output pin. When laser is on, this pin goes to a high-impedance state when UHS = low and outputs a high when UHS = high
75 76	VDD VDD	VDD2 VSS2	Input/Output Input/Output	CD unit's digital block power supply pins. Normally, apply 5V to VDD. When not using a CD (CD off), this power supply can be turned off, with only the controller power supply kept active, so that the controller alone is operating. In this case, the CD off bit must be set to 1. When this bit is set to 1, pins 11 through 18 and pins 39 through 42 all are changed for output ports if they have been set for CD control signal input/output pins.
77	XVSS	XVSS	Input/Output	CD's crystal oscillator power supply pins. Normally, connect these pins to the power supply lines that are used in common for the VDD and VSS pins.
78 79	XI XO	XI XO	Input/Output Input/Output	CD's crystal oscillator input/output pins. Normally, connect 16.934MHz here. This clock is used as the system clock for the CD. After a system reset, it also is used as the system clock on the controller side.
80	XVDD	XVDD	Input/Output	CD's crystal oscillator input/output pins. Normally, connect these pins to the power supply lines that are used in common for the VDD and VSS pins.
81	DVSR	DVSR	Input/Output	R-channel D/A converter unit ground pin.
82	RO	RO	Input/Output	R-channel data forward output pin.
83	DVRR	DVRR	Input/Output	R-channel reference voltage pin.
84	DVDD	DVDD	Input/Output	D/A converter unit power supply pin.
85	DVRL	DVRL	Input/Output	L-channel reference voltage pin.
86	LO	LO	Input/Output	L-channel data forward output pin.
87	DVSL	DVSL	Input/Output	L-channel D/A converter unit ground pin.
88 89*	NC NC/VPP	NC NC	Input/Output Input/Output	NC pins. Normally, connect these pins to ground or leave them open.
90	/RST	RESET	Input	Device's system reset signal input pin. The device remains reset while $\overline{\text{RESET}}$ is held low and when $\overline{\text{RESET}}$ is released back high, the CD unit becomes operational and the program starts from address 0. Normally, a system reset is asserted when a voltage of 2.7V or more is applied to VDD when it is at 0V (power-on reset). Therefore, this pin must be pulled high when used for this purpose.

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

IC802 VHiTC9457F0-1: Servo/Signal Control (TC9457F0) (4/4)

Pin No.	Port Name	Terminal Name	Input/Output	Function
91	/HOLD	HOLD	Input	This pin is used to input a signal that requests or clears the hold mode. Normally, use this pin for CD mode select signal input or battery detection signal input. There are two hold modes: clock stop mode (crystal oscillator turned off) and a wait mode (CPU stopped). These modes are entered by executing the CKSTP and WAIT instructions, respectively. The clock stop mode can be requested by a programmed input: low level detection on $\overline{\text{HOLD}}$ pin or forced execution, and can be cleared by detecting a high on the $\overline{\text{HOLD}}$ pin or a change of state in its input signal. When the CKSTP instruction is executed, the clock generator and the CPU stop operating and the device is placed in a memory backup state. During this state, the device's current consumption is reduced to 1 $\mu$ A or less. At the same time, the display output and CMOS output ports are automatically set low, and the Nch open-drain outputs are turned off. The wait mode is executed regardless of the input state on the $\overline{\text{HOLD}}$ pin, with the device's current consumption reduced. This mode is cleared by a change of state in the $\overline{\text{HOLD}}$ input.
92	INTR	REMO-IN	Input	External interrupt input pin. When the interrupt facility is enabled and a pulse of 1.11 to 2.22 $\mu$ s in duration is applied to this pin, an interrupt is generated and the program jumps to address 1. Input logic and the active edge (rise or fall) can be selected for each interrupt input. Also, the internal 8-bit time clock can be chosen for this interrupt input, in which case it is possible to count pulses or generate an interrupt at a given pulse count (address 3).
93* 94*	MXO MXI	MXO MXI	— —	Crystal oscillator pins for the controller. The oscillator clock is used as the timebase for the clock facility or as the controller's system clock. Connect a 4.5MHz or 75kHz crystal resonator to the MXO and MXI pins. Since these pins do not contain internal feedback resistors, etc, an amp resistor or output resistor must be added external to the chip. When using the clock generated by the CD unit's crystal oscillator for clocking the entire device operation, fix the MXI pin to the GND level. Oscillation is stopped by executing a CKSTP instruction. Select the crystal oscillator and control its operation by a program.
95 96	MVSS MVDD	MVSS MVDD	— —	Power supply pins. Normally, apply a voltage of 4.5 to 5.5V to VDD. In a backup state (when the CKSTP instruction executed), the device's current consumption is reduced to 1 $\mu$ A or less, allowing for the supply voltage to be lowered to 2.0V. The device is reset and the program starts from address 0 when a voltage of 2.7V or more is applied to this pin when it is at 0V (power-on reset).
97 98 99 100	OT1 OT2 OT3 OT4	COM1 COM2 COM3 COM4	Output Output Output Output	Common signal outputs to the LCD panel. Up to 72 segments in a matrix with S1 to S18 can be displayed. Three voltage levels MVDD, VEE (1/2 MVDD), and GND are output for 83Hz period at 2ms intervals. After a system reset and after deassertion of a clock stop instruction, the VEE voltage is output and the DISP OFF bit is set to 0 before common signals are output.

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



**GX-CD1200W**

**— M E M O —**

# SHARP PARTS GUIDE

## PORTABLE CD STEREO COMPONENT SYSTEM GX-CD1200W(BK) MODEL GX-CD1200W(GL)

### “HOW TO ORDER REPLACEMENT PARTS”

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

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

★ MARK: SPARE PARTS-DELIVERY SECTION

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

Contact your nearest SHARP Parts Distributor to order.

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

### Explanation of capacitors/resistors parts codes

#### Capacitors

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

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

#### Resistors

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

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

#### NOTE:

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

# GX-CD1200W

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
<b>INTEGRATED CIRCUITS</b>				
IC1	VHITA7358AP-1	J	AG	FM Front End,TA7358AP
IC2	VHILA1805/-1	J	AM	FM/AM IF MPX.,LA1805
IC101	VHITA8189N/-1	J	AM	Record/Playback Amp.,TA8189N
IC151	VHITA2011S/-1	J	AM	Mic Amp.,TA2011S
IC201	VHIBA3822LS-1	J	AL	Graphic Equalizer,BA3822LS
IC202,203	VHILB1403N/-1	J	AG	Level Meter Driver,LB1403N
IC401	VHIKA4558P-1	J	AC	Ope Amp.,KIA4558P
IC402	VHILA4663/-1	J	AQ	Power Amp.,LA4663
IC501,502	VHIKA7809AP-1	J	J	Voltage Regulator,KA7809AP
IC801	VHITA2109F/-1	J	AL	Servo Pre Amp.,TA2109F
IC802	VHITC9457F0-1	J	AZ	Servo/Signal Control,TC9457F0
IC803	VHILA6541D/-1	J	AW	Focus/Tracking/Spin/Sled Driver, LA6541D

## TRANSISTORS

Q153	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q154	VSKRA102M/-1	J	AC	Digital,PNP,KRA102 M
Q156	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q181,182	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q301	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y
Q403,404	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q502,503	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q504	VSKTA1271Y/-1	J	AC	Silicon,PNP,KTA1271 Y
Q505	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q601	VSKRC102M/-1	J	AC	Digital,PNP,KRC102 M
Q602	VSKRA102M/-1	J	AC	Digital,PNP,KRA102 M
Q603	VSKTD2058Y/-1	J	AF	Silicon,NPN,KTD2058 Y
Q801	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q802	VSKTA1271Y/-1	J	AC	Silicon,PNP,KTA1271 Y
Q803,804	VSKRC102M/-1	J	AC	Digital,PNP,KRC102 M

## DIODES

D1,2	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D152	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D154	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D156	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D158	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D162~165	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
△D651	VHDTA4B03GM-1	J	AK	Silicon,TS4B03GM
DZ601	VHEDZ8R2BSB-1	J	AB	Zener,8.2V,DZ8.2BSB
LED1	VHP333ID213-1	J	J	LED,RED,333ID213
LED253~260	VHP333ID213-1	J	J	LED,RED,333ID213
LED401	VHP333ID213-1	J	J	LED,RED,333ID213
LED501,502	VHP333ID213-1	J	J	LED,RED,333ID213

## FILTERS

CF1	RFILR0008AWZZ	J	AE	FM Band Pass Filter
CF2	92LFILTF1342A	J	AD	FM IF,10.7 MHz
CF3	RFILA0001BGZZ	J	AC	AM IF,455 kHz

## TRANSFORMER

△T601	RTRNP0001BGZZ	J	AX	Power
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## COILS

L1	RCILB0001BGZZ	J	AD	FM Oscillation
L2	RCILR0001BGZZ	J	AA	FM Tracking
L3,4	RCILA0001BGZZ	J	AH	MW/SW1 Bar Antenna
L5	RCILA0003BGZZ	J	AC	SW2 Antenna
L6	RCILB0002BGZZ	J	AC	MW Oscillation
L7	RCILB0003BGZZ	J	AC	SW1 Oscillation
L8	RCILB0004BGZZ	J	AC	SW2 Oscillation
L9	RCILI0002BGZZ	J	AD	FM IF
L10	RCILI0003BGZZ	J	AD	FM Detection
L11	RCILI0001BGZZ	J	AD	AM IF
L103,104	VP-MK223K0000	J	AC	22 mH,Choke
L301	RCILB0005BGZZ	J	AD	Bias Oscillation
L501	VP-MK470K0000	J	AB	47 μH,Choke
L801	VP-DHR82K0000	J	AE	0.82 μH,Choke
L802,803	VP-DH100K0000	J	AB	10 μH,Choke

## VARIABLE RESISTORS

VR1	RVR-M0026AWZZ	J	AC	10 kohm (B),Semi-VR [VCO]
VR102	RVR-M0018AWZZ	J	AC	470 ohms (B),Semi-VR [Tape Speed]

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
VR202	RVR-Q0002BGZZ	J	AE	50 kohms (B)×2 [X-BASS]
VR203~205	RVR-Q0001BGZZ	J	AC	100 kohm (B)×2 [Graphic Equalizer]
VR401	RVR-B0002BGZZ	J	J	50 kohms (B)×2 [VOLUME]

## VARIABLE CAPACITORS

TC5,6	RTO-H1003SJZZ	J	AG	Trimmer,5 pF
TC7,8	RTO-H1001BGZZ	J	AD	Trimmer,10 pF
TC9	RVC-Z0001BGZZ	J	AF	Fine Tuning
VC1~4	RVC-R0001BGZZ	J	AK	Variable Capacitance with Trimmer (TC1~4)

## VIBRATOR

XL801	RCRM-0008AWZZ	J	AF	Ceramic,16.93 MHz
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## CAPACITORS

C2	VCCCPU1HH5R0J	J	AA	5 pF (CH),50V
C4	VCCCPU1HH240J	J	AA	24 pF (CH),50V
C5	VCKYPA1HB102K	J	AA	0.001 μF,50V
C6,7	VCKYPA1HB472K	J	AB	0.0047 μF,50V
C8,9	VCKZPA1HF223Z	J	AA	0.022 μF,50V
C10	VCCCPU1HH150J	J	AA	15 pF (CH),50V
C11	VCCCPU1HH220J	J	AA	22 pF (CH),50V
C12	VCCCPU1HH3R0J	J	AA	3 pF (CH),50V
C13	VCKZPA1HF223Z	J	AA	0.022 μF,50V
C14	VCCCPU1HH5R0J	J	AA	5 pF (CH),50V
C15	VCKZPA1HF223Z	J	AA	0.022 μF,50V
C17	VCKZPA1HF223Z	J	AA	0.022 μF,50V
C18	RC-GZA106AF1C	J	AB	10 μF,16V,Electrolytic
C19	VCKYPA1HB331K	J	AA	330 pF,50V
C20	VCKYPA1HB222K	J	AA	0.0022 μF,50V
C21	VCCUPA1HJ5R0C	J	AA	5 pF (UJ),50V
C22	VCKZPA1HF223Z	J	AA	0.022 μF,50V
C23	RC-GZA227AF1A	J	AB	220 μF,10V,Electrolytic
C24~26	VCKZPA1HF223Z	J	AA	0.022 μF,50V
C27	VCKYPA1HB472K	J	AB	0.0047 μF,50V
C29	RC-GZA226AF1C	J	AB	22 μF,16V,Electrolytic
C30	VCKZPA1HF223Z	J	AA	0.022 μF,50V
C31	VCQYKA1HM472K	J	AB	0.0047 μF,50V,Mylar
C32	VCQYKA1HM822K	J	AA	0.0082 μF,50V,Mylar
C33	RC-GZA335AF1H	J	AB	3.3 μF,50V,Electrolytic
C34	VCKYPA1HB471K	J	AA	470 pF,50V
C35	RC-GZA335AF1H	J	AB	3.3 μF,50V,Electrolytic
C36	92LCPU100V1500	J	AC	0.0015 μF,100V
C37,38	VCQYKA1HM123K	J	AA	0.012 μF,50V,Mylar
C39~41	RC-GZA105AF1H	J	AB	1 μF,50V,Electrolytic
C42	VCKZPA1HF223Z	J	AA	0.022 μF,50V
C43	VCKYPA1HB221K	J	AA	220 pF,50V
C101,102	VCKYPA1HB471K	J	AA	470 pF,50V
C103,104	VCKYPA1HB471K	J	AA	470 pF,50V
C105~108	VCKYPA1HB331K	J	AA	330 pF,50V
C109,110	RC-GZA476AF1A	J	AB	47 μF,10V,Electrolytic
C111,112	VCQYKA1HM153K	J	AB	0.015 μF,50V,Mylar
C113~116	RC-GZA475AF1H	J	AB	4.7 μF,50V,Electrolytic
C117,118	RC-GZA106AF1C	J	AB	10 μF,16V,Electrolytic
C119,120	VCQYKA1HM333K	J	AB	0.033 μF,50V,Mylar
C121,122	VCKYPA1HB331K	J	AA	330 pF,50V
C123,124	VCKYPA1HB103K	J	AA	0.01 μF,50V
C125,126	RC-GZA475AF1H	J	AB	4.7 μF,50V,Electrolytic
C127	RC-GZA337AF1A	J	AB	330 μF,10V,Electrolytic
C128	RC-GZA225AF1H	J	AB	2.2 μF,50V,Electrolytic
C129	RC-GZA226AF1C	J	AB	22 μF,16V,Electrolytic
C131,132	VCKYPA1HB121K	J	AA	120 pF,50V
C133,134	VCKYPA1HB151K	J	AA	150 pF,50V
C137,138	VCQYKA1HM152K	J	AB	0.0015 μF,50V,Mylar
C151	RC-GZA334AF1H	J	AA	0.33 μF,50V,Electrolytic
C152	RC-GZA106AF1C	J	AB	10 μF,16V,Electrolytic
C154	RC-GZA476AF1A	J	AB	47 μF,10V,Electrolytic
C155	RC-GZA106AF1C	J	AB	10 μF,16V,Electrolytic
C156	RC-GZA107AF1A	J	AB	100 μF,10V,Electrolytic
C157	RC-GZA105AF1H	J	AB	1 μF,50V,Electrolytic
C158,159	RC-GZA476AF1E	J	AB	47 μF,25V,Electrolytic
C160	RC-GZA226AF1C	J	AB	22 μF,16V,Electrolytic
C180	RC-GZA107AF1A	J	AB	100 μF,10V,Electrolytic
C181,182	RC-GZA105AF1H	J	AB	1 μF,50V,Electrolytic
C183,184	VCKYPA1HB221K	J	AA	220 pF,50V
C185,186	RC-GZA105AF1H	J	AB	1 μF,50V,Electrolytic
C200	RC-GZA107AF1A	J	AB	100 μF,10V,Electrolytic
C201,202	RC-GZA475AF1H	J	AB	4.7 μF,50V,Electrolytic

NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION	NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
C203,204	RC-GZA105AF1H	J AB	1 μF,50V,Electrolytic	C846	RC-GZA225AF1H	J AB	2.2 μF,50V,Electrolytic
C205,206	VCQYKA1HM103K	J AA	0.01 μF,50V,Mylar	C847	RC-GZA226AF1C	J AB	22 μF,16V,Electrolytic
C207,208	VCKYPA1HB471K	J AA	470 pF,50V	C848	RC-GZA226AF1C	J AB	22 μF,16V,Electrolytic
C209,210	VCQYKA1HM823K	J AC	0.082 μF,50V,Mylar	C849,850	VCKYPA1HB121K	J AA	120 pF,50V
C211,212	VCQYKA1HM152K	J AB	0.0015 μF,50V,Mylar	C851,852	RC-GZA335AF1H	J AB	3.3 μF,50V,Electrolytic
C213,214	RC-GZA334AF1H	J AA	0.33 μF,50V,Electrolytic	C853	VCKZPA1HF223Z	J AA	0.022 μF,50V
C215,216	VCQYKA1HM562K	J AA	0.0056 μF,50V,Mylar	C854	VCKYPA1HB682K	J AB	0.0068 μF,50V
C217,218	RC-GZA474AF1H	J AA	0.47 μF,50V,Electrolytic	C855	VCKZPA1HF223Z	J AA	0.022 μF,50V
C219,220	VCQYKA1HM393K	J AB	0.039 μF,50V,Mylar	C858	VCKZPA1HF223Z	J	0.022 μF,50V
C221,222	RC-GZA475AF1H	J AB	4.7 μF,50V,Electrolytic	C859	VCKYPA1HB272K	J AA	0.0027 μF,50V
C251,252	RC-GZA105AF1H	J AB	1 μF,50V,Electrolytic	C860	VCKYPA1HB152K	J AA	0.0015 μF,50V
C253,254	VCKZPA1HF223Z	J AA	0.022 μF,50V	C863	RC-GZA476AF1A	J AB	47 μF,10V,Electrolytic
C255,256	RC-GZA106AF1C	J AB	10 μF,16V,Electrolytic	C893	RC-GZA227AF1A	J AB	220 μF,10V,Electrolytic
C257	RC-GZA476AF1E	J AB	47 μF,25V,Electrolytic	C894	VCKZPA1HF223Z	J AA	0.022 μF,50V
C259,260	VCQYKA1HM392K	J AA	0.0039 μF,50V,Mylar	<b>RESISTORS</b>			
C301	RC-GZA107AF1A	J AB	100 μF,10V,Electrolytic	R1	VRD-ST2EE100J	J AA	10 ohm,1/4W
C302	VCQYKA1HM222K	J AA	0.0022 μF,50V,Mylar	R2	VRD-ST2CD330J	J AA	33 ohms,1/6W
C303	VCQYKA1HM562K	J AA	0.0056 μF,50V,Mylar	R3	VRD-ST2CD470J	J AA	47 ohms,1/6W
C304	VCKZPA1HF223Z	J AA	0.022 μF,50V	R4	VRD-ST2CD334J	J AA	330 kohms,1/6W
C305	VCQYKA1HM152K	J AB	0.0015 μF,50V,Mylar	R5	VRD-ST2CD101J	J AA	100 ohm,1/6W
C306	VCKYPA1HB391K	J AA	390 pF,50V	R7	VRD-ST2CD824J	J AA	820 kohms,1/6W
C307	VCKYPA1HB151K	J AA	150 pF,50V	R8	VRD-ST2CD392J	J AA	3.9 kohms,1/6W
C401,402	VCQYKA1HM682K	J AA	0.0068 μF,50V,Mylar	R9	VRD-ST2CD123J	J AA	12 kohms,1/6W
C403,404	RC-GZA106AF1C	J AB	10 μF,16V,Electrolytic	R10,11	VRD-ST2EE470J	J AA	47 ohms,1/4W
C405,406	VCQYKA1HM332K	J AA	0.0033 μF,50V,Mylar	R12	VRD-ST2CD102J	J AA	1 kohm,1/6W
C407,408	RC-GZA475AF1H	J AB	4.7 μF,50V,Electrolytic	R13	VRD-ST2EE101J	J AA	100 ohm,1/4W
C409,410	RC-GZA105AF1H	J AB	1 μF,50V,Electrolytic	R14	VRD-ST2CD104J	J AA	100 kohm,1/6W
C411	RC-GZA476AF1A	J AB	47 μF,10V,Electrolytic	R15,16	VRD-ST2CD103J	J AA	10 kohm,1/6W
C412	RC-GZA476AF1A	J AB	47 μF,10V,Electrolytic	R17,18	VRD-ST2CD272J	J AA	2.7 kohms,1/6W
C413,414	VCQYKA1HM102K	J AA	0.001 μF,50V,Mylar	R19	VRD-ST2CD153J	J AA	15 kohms,1/6W
C415,416	VCQYKA1HM154K	J AB	0.15 μF,50V,Mylar	R20	VRD-ST2EE100J	J AA	10 ohm,1/4W
C418	RC-GZA226AF1C	J AB	22 μF,16V,Electrolytic	R100	VRD-ST2EE151J	J AA	150 ohms,1/4W
C419,420	RC-GZA475AF1H	J AB	4.7 μF,50V,Electrolytic	R101,102	VRD-ST2CD101J	J AA	100 ohm,1/6W
C423	RC-GZA106AF1C	J AB	10 μF,16V,Electrolytic	R105,106	VRD-ST2CD184J	J AA	180 kohms,1/6W
C424	RC-GZA476AF1E	J AB	47 μF,25V,Electrolytic	R107,108	VRD-ST2CD103J	J AA	10 kohm,1/6W
C425-428	VCQYKA1HM104K	J AB	0.1 μF,50V,Mylar	R109,110	VRD-ST2CD682J	J AA	6.8 kohms,1/6W
C429,430	RC-GZA106AF1C	J AB	10 μF,16V,Electrolytic	R111,112	VRD-ST2CD223J	J AA	22 kohms,1/6W
C433	VCKZPA1HF223Z	J AA	0.022 μF,50V	R113,114	VRD-ST2CD124J	J AA	120 kohms,1/6W
C505	RC-GZA476AF1C	J AB	47 μF,16V,Electrolytic	R115,116	VRD-ST2CD681J	J AA	680 ohms,1/6W
C506	VCKZPA1HF223Z	J AA	0.022 μF,50V	R117,118	VRD-ST2CD334J	J AA	330 kohms,1/6W
C508	RC-GZA107AF1C	J AB	100 μF,16V,Electrolytic	R119,120	VRD-ST2CD101J	J AA	100 ohm,1/6W
C509	VCKZPA1HF223Z	J AA	0.022 μF,50V	R121-124	VRD-ST2CD103J	J AA	10 kohm,1/6W
C510	RC-GZG338AF1E	J	3300 μF,25V,Electrolytic	R127,128	VRD-ST2CD223J	J AA	22 kohms,1/6W
C511	VCKZPA1HF223Z	J AA	0.022 μF,50V	R129,130	VRD-ST2CD154J	J AA	150 kohms,1/6W
C513,514	RC-GZA105AF1H	J AB	1 μF,50V,Electrolytic	R131,132	VRD-ST2CD122J	J AA	1.2 kohms,1/6W
C601	VCKZPA1HF223Z	J AA	0.022 μF,50V	R133,134	VRD-ST2CD823J	J AA	82 kohms,1/6W
C602	RC-GZA107AF1A	J AB	100 μF,10V,Electrolytic	R135,136	VRD-ST2CD103J	J AA	10 kohm,1/6W
C603	VCKZPA1HF223Z	J AA	0.022 μF,50V	R151	VRD-ST2CD222J	J AA	2.2 kohms,1/6W
C604	RC-GZA227AF1A	J AB	220 μF,10V,Electrolytic	R152	VRD-ST2CD472J	J AA	4.7 kohms,1/6W
C651-654	VCKZPA1HF223Z	J AA	0.022 μF,50V	R153	VRD-ST2CD222J	J AA	2.2 kohms,1/6W
C801	VCQYKA1HM103K	J AA	0.01 μF,50V,Mylar [To Serial No.00404990 Only]	R154	VRD-ST2CD561J	J AA	560 ohms,1/6W
C802	VCKZPA1HF223Z	J AA	0.022 μF,50V	R161	VRD-ST2CD105J	J AA	1 Mohm,1/6W
C804	VCCCPA1HH2R0C	J AA	2 pF (CH),50V	R165	VRD-ST2CD103J	J AA	10 kohm,1/6W
C805	VCKZPA1HF223Z	J AA	0.022 μF,50V	R166	VRD-ST2EE561J	J AA	560 ohms,1/4W
C806	RC-GZA227AF1A	J AB	220 μF,10V,Electrolytic	R168,169	VRD-ST2CD103J	J AA	10 kohm,1/6W
C807	VCKZPA1HF473Z	J AA	0.047 μF,50V	R170,171	VRD-ST2CD333J	J AA	33 kohms,1/6W
C813	RC-GZA476AF1A	J AB	47 μF,10V,Electrolytic	R172,173	VRD-ST2CD103J	J AA	10 kohm,1/6W
C814	VCKZPA1HF473Z	J AA	0.047 μF,50V	R174	VRD-ST2CD223J	J AA	22 kohms,1/6W
C815	RC-GZA476AF1A	J AB	47 μF,10V,Electrolytic	R177	VRD-ST2CD102J	J AA	1 kohm,1/6W
C816	VCKZPA1HF223Z	J AA	0.022 μF,50V	R180	VRD-ST2EE561J	J AA	560 kohms,1/4W
C817	RC-GZA107AF1A	J AB	100 μF,10V,Electrolytic	R181,182	VRD-ST2CD102J	J AA	1 kohm,1/6W
C818	VCCSPA1HL560J	J AA	56 pF,50V	R183,184	VRD-ST2CD334J	J AA	330 kohms,1/6W
C819,820	VCQYKA1HM104K	J AB	0.1 μF,50V,Mylar	R185,186	VRD-ST2CD221J	J AA	220 ohms,1/6W
C821	RC-GZA476AF1A	J AB	47 μF,10V,Electrolytic	R187,188	VRD-ST2CD392J	J AA	3.9 kohms,1/6W
C822	VCKZPA1HF473Z	J AA	0.047 μF,50V	R200	VRD-ST2EE331J	J AA	330 ohms,1/4W
C823	VCQYKA1HF223Z	J AA	0.022 μF,50V	R201,202	VRD-ST2CD102J	J AA	1 kohm,1/6W
C824	VCQYKA1HM104K	J AB	0.1 μF,50V,Mylar	R203,204	VRD-ST2CD222J	J AA	2.2 kohms,1/6W
C825	RC-GZA476AF1A	J AB	47 μF,10V,Electrolytic	R205	VRD-ST2CD472J	J AA	4.7 kohms,1/6W
C826	VCCSPA1HL470J	J AA	47 pF,50V	R206	VRD-ST2CD332J	J AA	3.3 kohms,1/6W
C827	VCQYKA1HM153K	J AB	0.015 μF,50V,Mylar	R207	VRD-ST2CD472J	J AA	4.7 kohms,1/6W
C828	VCKYPA1HB272K	J AA	0.0027 μF,50V	R208	VRD-ST2CD332J	J AA	3.3 kohms,1/6W
C829	VCKYPA1HB472K	J AB	0.0047 μF,50V	R211,212	VRD-ST2CD102J	J AA	1 kohm,1/6W
C830	VCQYKA1HM103K	J AA	0.01 μF,50V,Mylar	R251,252	VRD-ST2CD682J	J AA	6.8 kohms,1/6W
C832	RC-GZA476AF1A	J AB	47 μF,10V,Electrolytic	R253,254	VRD-ST2CD393J	J AA	39 kohms,1/6W
C833	VCQYKA1HM333K	J AB	0.033 μF,50V,Mylar	R255,256	VRD-ST2EE121J	J AA	120 ohms,1/4W
C834,835	VCKYPA1HB471K	J AA	470 pF,50V	R257,258	VRD-ST2CD103J	J AA	10 kohm,1/6W
C836-839	VCQYKA1HM473K	J AB	0.047 μF,50V,Mylar	R259,260	VRD-ST2EE121J	J AA	120 ohms,1/4W
C840-842	VCKZPA1HF473K	J AA	0.047 μF,50V	R301	VRD-ST2EE331J	J AA	330 ohms,1/4W
C843	RC-GZA476AF1A	J AB	47 μF,10V,Electrolytic	R302,303	VRD-ST2EE101J	J AA	100 ohm,1/4W
C844	RC-GZA107AF1A	J AB	100 μF,10V,Electrolytic	R304	VRD-ST2EE100J	J AA	10 ohm,1/4W
C845	VCKZPA1HF473Z	J AA	0.047 μF,50V				

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NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
R305	VRD-ST2EE273J	J AA	27 kohms,1/4W
R306	VRD-ST2EE470J	J AA	47 ohms,1/4W
R351,352	VRD-ST2CD473J	J AA	47 kohms,1/6W
R353,354	VRD-ST2CD273J	J AA	27 kohms,1/6W
R401,402	VRD-ST2CD104J	J AA	100 kohm,1/6W
R403,404	VRD-ST2CD103J	J AA	10 kohm,1/6W
R405,406	VRD-ST2CD272J	J AA	2.7 kohms,1/6W
R407-410	VRD-ST2CD123J	J AA	12 kohms,1/6W
R411	VRD-ST2EE331J	J AA	330 ohms,1/4W
R412,413	VRD-ST2CD103J	J AA	10 kohm,1/6W
R415,416	VRD-ST2CD332J	J AA	3.3 kohms,1/6W
R417,418	VRD-ST2CD223J	J AA	22 kohms,1/6W
R419,420	VRD-ST2CD332J	J AA	3.3 kohms,1/6W
R425,426	VRD-ST2CD102J	J AA	1 kohm,1/6W
R427,428	VRD-ST2CD472J	J AA	4.7 kohms,1/6W
R429	VRD-ST2CD104J	J AA	100 kohm,1/6W
R431	VRD-ST2CD273J	J AA	27 kohms,1/6W
R433-436	VRD-ST2CD2R2J	J AA	2.2 ohms,1/6W
R437,438	VRD-ST2EE121J	J AA	120 ohms,1/4W
R440	VRD-ST2EE471J	J AA	470 ohms,1/4W
R441,442	VRD-ST2CD153J	J AA	15 kohms,1/6W
R511-513	VRD-ST2CD103J	J AA	10 kohm,1/6W
R514	VRD-ST2CD104J	J AA	100 kohm,1/6W
R515	VRD-ST2CD121J	J AA	120 ohms,1/6W
R516	VRD-ST2CD302J	J AA	3.6 kohms,1/6W
R518,519	VRD-ST2CD102J	J AA	1 kohm,1/6W
R520,521	VRD-ST2CD103J	J AA	10 kohm,1/6W
R601	VRD-ST2EE271J	J AA	270 ohms,1/4W
R602	VRD-ST2EE101J	J AA	100 ohm,1/4W
R801	VRD-ST2EE220J	J AA	22 ohms,1/4W
R802	VRD-ST2CD222J	J AA	2.2 kohms,1/6W [To Serial No.00404990 Only]
R803	VRD-ST2CD823J	J AA	82 kohms,1/6W
R804	VRD-ST2CD683J	J AA	68 kohms,1/6W
R805	VRD-ST2CD393J	J AA	39 kohms,1/6W
R806	VRD-ST2CD272J	J AA	2.7 kohms,1/6W
R807	VRD-ST2CD102J	J AA	1 kohm,1/6W
R811	VRD-ST2CD223J	J AA	22 kohms,1/6W
R812	VRD-ST2CD102J	J AA	1 kohm,1/6W
R820	VRD-ST2CD473J	J AA	47 kohms,1/6W
R821,822	VRD-ST2CD223J	J AA	22 kohms,1/6W
R824	VRD-ST2CD103J	J AA	10 kohm,1/6W
R826	VRD-ST2CD224J	J AA	220 kohms,1/6W
R827	VRD-ST2CD153J	J AA	15 kohms,1/6W
R828	VRD-ST2CD103J	J AA	10 kohm,1/6W
R829	VRD-ST2CD332J	J AA	3.3 kohms,1/6W
R830	VRD-ST2CD103J	J AA	10 kohm,1/6W
R831-834	VRD-ST2CD332J	J AA	3.3 kohms,1/6W
R835,836	VRD-ST2CD153J	J AA	15 kohms,1/6W
R839	VRD-ST2CD473J	J AA	47 kohms,1/6W
R840	VRD-ST2EE100J	J AA	10 ohm,1/4W
R844	VRD-ST2CD332J	J AA	3.3 kohms,1/6W
R846	VRD-ST2CD331J	J AA	330 ohms,1/6W
R847	VRD-ST2CD102J	J AA	1 kohm,1/6W
R848	VRD-ST2CD222J	J AA	2.2 kohms,1/6W
R849	VRD-ST2CD682J	J AA	6.8 kohms,1/6W
R851-853	VRD-ST2CD222J	J AA	2.2 kohms,1/6W
R857,858	VRD-ST2CD562J	J AA	5.6 kohms,1/6W
R861	VRD-ST2CD332J	J AA	3.3 kohms,1/6W
R863	VRD-ST2CD332J	J AA	3.3 kohms,1/6W
R865	VRD-ST2CD102J	J AA	1 kohm,1/6W
R891	VRD-ST2CD683J	J AA	68 kohms,1/6W [From Serial No.00504991]
R892	VRD-ST2CD563J	J AA	56 kohms,1/6W [From Serial No.00504991]
R893-895	VRD-ST2CD683J	J AA	68 kohms,1/6W [From Serial No.00504991]
R896	VRD-ST2CD563J	J AA	56 kohms,1/6W [From Serial No.00504991]

## OTHER CIRCUITRY PARTS

BI801/CNS801	QCNWN0026BGZZ	J	Connector Ass'y,8/8Pin
BI802/CNS802	QCNWN0027BGZZ	J	Connector Ass'y,5/5Pin [To Serial No.00404990]
BI802/CNS802	QCNWN0032BGZZ	J	Connector Ass'y,7/7Pin [From Serial No.00504991]
BI803/CNS803	QCNWN0028BGZZ	J	Connector Ass'y,6/6Pin
BI804/CNS804	QCNWN0031BGZZ	J	Connector Ass'y,6/6Pin
CNP101	QCNCM705CAFZZ	J AA	Plug,3Pin
CNP102	QCNCM705DAFZZ	J AB	Plug,4Pin
CNP103	QCNCM698JAFZZ	J AC	Plug,9Pin

NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
CNP501	QTANA0001BGZZ	J AD	Terminal,Speaker
CNP601	QCNCM035BAWZZ	J AB	Plug,2Pin
CNP803	92LCONE6P53254	J AC	Plug,6Pin
CNP804	QCNCM705FAFZZ	J AB	Plug,6Pin
CNS101	QCNWN0001BGZZ	J AD	Connector Ass'y,3Pin
CNS102	QCNWN0002BGZZ	J AE	Connector Ass'y,4Pin
CNS103	QCNWN0003BGZZ	J AF	Connector Ass'y,9Pin
CNS601	QCNWN0006BGZZ	J AD	Connector Ass'y,2Pin
△ F601	QFS-D402ABGNI	J AC	T4A L 250V
FW1	QCNWN0038BGZZ	J	Flat Wire,4Pin
FW2	QCNWN0014BGZZ	J AA	Flat Wire,2Pin
FW801	QCNWN0030AFZZ	J AG	Flat Wire,10Pin
FW802	QCNWN0029AFZZ	J	Flat Wire,2Pin
J151	QJAKA0004BGZZ	J	Jack,Mic
J401	QJAKM0001BGZZ	J AE	Jack,Headphones
LCD801	RV-LX0001BGZZ	J	LCD Display
M501(300-10)	92L1959123012	J	Motor with Pulley [Tape]
M801	92LMMTR1651B	J AL	Motor with Chassis [Sled]
M802	92LMMTR1854A	J AP	Motor with Gear [Spindle]
MIC151	RMICC0001BGZZ	J AF	Built-in Microphone
△ SO601	QSOCA0006SJZZ	J AB	AC Socket
SP401,402	VSP0012PBG28A	J	Speaker,Woofers
SP403,404	RALMB0001BGZZ	J AC	Speaker,Tweeter
SW1	QSW-S9001BGZZ	J AE	Switch,Slide Type [Band Selector]
SW101	QSW-S9002BGZZ	J AD	Switch,Slide Type [Record/Playback]
SW102	QSW-S9003BGZZ	J AC	Switch,Slide Type [Beat Cancel]
SW103	QSW-S9004BGZZ	J AC	Switch,Slide Type [Dubbing Speed/Mic/FM Mode]
SW401	QSW-P9001BGZZ	J AE	Switch,Push Type [Surround]
SW501	QSW-S9005BGZZ	J AD	Switch,Slide Type [Function Selector]
△ SW601	QSW-S0004SJZZ	J AK	Switch,Slide Type [Voltage Selector]
SW702	QSWF9001AW01	J	Switch,Push Type [Pickup In]
SW801	QSW-K0008AWZZ	J AC	Switch,Key Type [Play/Pause]
SW801	92LSWICHT1663	J AC	Switch,Key Type [Play/Pause]
SW802	QSW-K0008AWZZ	J AC	Switch,Key Type [Stop]
SW803	QSW-K0008AWZZ	J AC	Switch,Key Type [Cue/Track Up]
SW804	QSW-K0008AWZZ	J AC	Switch,Key Type [Review/Track Down]
SW810	QSW-P0004AWZZ	J AE	Switch,Push Type [Open/Close]
SW901(300-12)	92L640101149	J	Switch,Leaf Type [Tape 1 Main]
SW902(300-11)	92L640101149	J	Switch,Leaf Type [Tape 2 Main]
SW903(300-13)	92L640101149	J	Switch,Leaf Type [Tape 2 Play]
SW904(300-14)	92L64030204	J	Switch,Slide Type [Tape 2 Direction]

## CD MECHANISM PARTS

301	NGERH0011AWZZ	J AC	Gear,Middle
302	NGERH0012AWZZ	J AC	Gear,Drive
303	MLEVP0080AWZZ	J AC	Rail,Guide
304	NSFTM0020AWFW	J AD	Shaft,Guide
305	92LMCUSN1524A	J AD	Cushion
△ 306	92LHPC1LASY	J	Pickup Unit Ass'y [To Serial No.00404990]
△ 306	92LHPC1LXASY	J BD	Pickup Unit Ass'y [From Serial No.00504991]
307	PCOVP1001AWSA	J AE	Cover,CD Mechanism
701	XBSSD26P06000	J AA	Screw,ø2.6×6mm
702	XHBSD20P05000	J AA	Screw,ø2×5mm
703	XBBSD20P03000	J AA	Screw,ø2×3mm
704	LX-WZ1070AFZZ	J AA	Washer,ø1.5×ø3.8×0.25mm
M801	92LMMTR1651B	J AL	Motor with Chassis [Sled]
M802	92LMMTR1854A	J AP	Motor with Gear [Spindle]
SW702	QSWF9001AW01	J	Switch,Push Type [Pickup In]

## CABINET PARTS

201	GCABA1003BGSA	J	Front Cabinet [GL]
201	GCABA1003BGSA	J	Front Cabinet [BK]
202	GFTAC0001BGSA	J AK	Cassette Holder [Tape 1] [BK]
202	GFTAC0001BGSC	J	Cassette Holder [Tape 1] [GL]
203	GFTAC0002BGSA	J AK	Cassette Holder [Tape 2] [BK]
203	GFTAC0002BGSC	J	Cassette Holder [Tape 2] [GL]
204	HBDGA1003BGSA	J	Badge,SHARP
205	HBDGS1001BGSA	J AF	Sheet,Surround Sound System
206	HDECQ0001BGSA	J AH	Panel,Display
207	HDECQ0004BGSA	J AD	Ring,Volume Knob
208	HDECQ0017BGSA	J	Panel,Cassette Holder [Tape 1]



NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION	NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
209	HDECQ0008BGSA	J AD	Panel,Cassette Holder [Tape 2]	264	TSPC-0026BGZZ	J	Label,Specifications [BK] [For Malaysia/Asia Middle East/ Africa]
210	HDECZ0001BGSA	J AC	Panel,Dial Pointer	264	TSPC-0027BGZZ	J	Label,Specifications [BK] [For Jordan/Egypt]
211	HSSND0001BGSA	J AC	Dial Pointer	264	TSPC-0028BGZZ	J	Label,Specifications [BK] [For Thailand]
212	JKNBQ0001BGSC	J	Knob,Tuning	264	TSPC-0029BGZZ	J	Label,Specifications [GL] [For Australia]
213	LANGT0001BGFJ	J AD	Bracket,Front Cabinet	264	TSPC-0030BGZZ	J	Label,Specifications [BK] [For Australia]
214	MLIFP0001BGZZ	J AD	Gear,Cassette Holder	266	PRDAR0002BGFJ	J	Heat Sink,Sub
215	MSPRD0001BGFJ	J AB	Spring,Cassette Holder Up	267	GCABC1003BGSA	J	Top Cabinet [GL]
216	NGERH0002BGZZ	J AC	Gear,Tuning Knob	267	GCABC1003BGSB	J	Top Cabinet [BK]
218	LANGG0001BGFJ	J AB	Guide,Dial Pointer	268	GFTAT1001BGSA	J	CD Lid [GL]
219	HDECQ0005BGSA	J AC	Cap,Volume Knob	268	GFTAT1001BGSA	J	CD Lid [BK]
220	JKNBK0001BGSA	J	Knob,Volume	269	HPNLZ1001BGSA	J	Panel,Decoration
221	LHLDW1033CE00	J	Nylon Band	270	HPNLZ1002BGSA	J	Panel,LCD
222	JBTN-0001BGSA	J AC	Button,Record [Tape 1] [BK]	271	JBTN-0024BGSA	J	Button,CD Lid Open [GL]
222	JBTN-0001BGSC	J	Button,Record [Tape 1] [GL]	271	JBTN-0024BGSA	J	Button,CD Lid Open [BK]
223	JBTN-0002BGSA	J AC	Button,Play [Tape 1] [BK]	272	MLEVP0003BGZZ	J	Lock Lever,CD Lid
223	JBTN-0002BGSC	J	Button,Play [Tape 1] [GL]	273	JKNBK0002BGSA	J	Button,Function
224	JBTN-0003BGSA	J AC	Button,Rewind [Tape 1] [BK]	274	LHLDM1001BGZZ	J	Stabilizer
224	JBTN-0003BGSC	J	Button,Rewind [Tape 1] [GL]	275	PMAGF0001BGZZ	J	Magnet
225	JBTN-0004BGSA	J AC	Button,Fast Forward [Tape 1] [BK]	276	LHLDZ1003BGZZ	J	Holder,LCD
225	JBTN-0004BGSC	J	Button,Fast Forward [Tape 1] [GL]	277	MSPRD0002BGFJ	J	Spring,CD Lid
226	JBTN-0005BGSA	J AC	Button,Stop/Eject [Tape 1] [BK]	△ 278	QFSDH0017CEZZ	J	Holder,Fuse
226	JBTN-0005BGSC	J	Button,Stop/Eject [Tape 1] [GL]	△ 279	QFSDH0018CEZZ	J	Holder,Fuse
227	JBTN-0006BGSA	J AC	Button,Pause [Tape 1] [BK]	280	MSPRB0003BGFJ	J	Spring,CD LID Open Button
227	JBTN-0006BGSC	J	Button,Pause [Tape 1] [GL]	300	CMECB0001BG01	J BL	Tape Mechanism Ass'y
228	JBTN-0007BGSA	J AC	Button,Reverse Mode [Tape 2] [BK]	300- 1	92L192104309	J	Pinch Roller Arm Ass'y
228	JBTN-0007BGSC	J	Button,Reverse Mode [Tape 2] [GL]	300- 2	92L195904302	J	Pinch Roller Arm Ass'y,Rewind
229	JBTN-0008BGSA	J AC	Button,Play [Tape 2] [BK]	300- 3	92L195904301	J	Pinch Roller Arm Ass'y,Fast Forward
229	JBTN-0008BGSC	J	Button,Play [Tape 2] [GL]	300- 4	92L6201-01-111	J	Head,Record/Playback,Tape 1
230	JBTN-0009BGSA	J AC	Button,Rewind [Tape 2] [BK]	300- 5	92L6209-10-10	J	Head,Erase,Tape 1
230	JBTN-0009BGSC	J	Button,Rewind [Tape 2] [GL]	300- 6	92L6216-07-01	J	Head,Playback,Tape 2
231	JBTN-0010BGSA	J AC	Button,Fast Forward [Tape 2] [BK]	300- 7	92L19210703	J	FF/REW Belt
231	JBTN-0010BGSC	J	Button,Fast Forward [Tape 2] [GL]	300- 8	92L182112173	J	Main Belt,Tape 1
232	JBTN-0011BGSA	J AC	Button,Stop/Eject [Tape 2] [BK]	300- 9	92L182112142	J	Main Belt,Tape 2
232	JBTN-0011BGSC	J	Button,Stop/Eject [Tape 2] [GL]	300-10(M501)	92L1959123012	J	Motor with Pulley [Tape]
233	JBTN-0012BGSA	J AC	Button,Direction [Tape 2] [BK]	300-11(SW902)	92L640101149	J	Switch,Leaf Type [Tape 2 Main]
233	JBTN-0012BGSC	J	Button,Direction [Tape 2] [GL]	300-12(SW901)	92L640101149	J	Switch,Leaf Type [Tape 1 Main]
234	LANGF0001BGZJ	J	Support,Mechanism Button Shaft	300-13(SW903)	92L640101149	J	Switch,Leaf Type [Tape 2 Play]
235	LHLDZ8001BG00	J AC	Holder,Mic	300-14(SW904)	92L64030204	J	Switch,Slide Type [Tape 2 Direction]
236	LHLDZ1002BGZZ	J AC	Holder,LED A	601	XEBSD30P10000	J AA	Screw,ø3×10mm
237	MSPRC0001BGFJ	J AC	Spring,Battery,-	602	XJBSD30P08000	J AA	Screw,ø3×8mm
238	PRDAR0001BGFJ	J AL	Heat Sink,Main	603	XBPSD26P04JS0	J	Screw,ø2.6×4mm
239	NGERK0001BGZZ	J AD	Dial Drum	604	XHBSD20P04000	J AA	Screw,ø2×4mm
240	PSHEP0001BGSA	J AD	Sheet,LED,Left	605	XJSSD30P10000	J AA	Screw,ø3×10mm
241	PSHEP0002BGSA	J AD	Sheet,LED,Right	606	XBBSF30P10000	J AA	Screw,ø3×10mm
242	JKNBZ0001BGSA	J AC	Knob,Fine Tuning	607	XJBSD40P16000	J AB	Screw,ø4×16mm
243	PCOVZ9001BGZZ	J AB	Cover,Dial Pointer	608	XEBSD30P20000	J AA	Screw,ø3×20mm
244	MSPRP0001BGFJ	J AC	Plate,Record	609	XHSSF30P06000	J AA	Screw,ø3×6mm
245	GCABB1003BGSA	J	Rear Cabinet [GL]	610	XEBSD30P10000	J AA	Screw,ø3×10mm
245	GCABB1003BGSA	J	Rear Cabinet [BK]	611	LX-JZ0002AWFD	J AA	Screw,ø3×10mm
246	GLEGG0001BG00	J AB	Cushion,Leg	612	XESSD30P10000	J	Screw,ø3×10mm
247	JHNDP1002BGSA	J	Handle [GL]	613	LX-EZ0005AWFD	J AA	Screw,ø2.6×10mm
247	JHNDP1002BGSA	J	Handle [BK]	<b>SPEAKER BOX PARTS</b>			
248	LHLDQ1001BGZZ	J AE	Holder,AC Socket/Voltage Selector	301	CCAB-120LBG01G	J	Front Panel,Ass'y,Left [GL]
249	MSPRB0002BGFJ	J AB	Spring,Rod Antenna	301	CCAB-120LBG01K	J	Front Panel,Ass'y,Left [BK]
250	MSPRC0002BGFJ	J AC	Spring,Battery,+/-	302	CCAB-120RBG01G	J	Front Panel,Ass'y,Right [GL]
251	MSPRC0003BGFJ	J AC	Spring,Battery,+/-	302	CCAB-120RBG01K	J	Front Panel,Ass'y,Right [BK]
253	QANTR0002BGZZ	J AK	Rod Antenna	303	GCABD1001BGSA	J AQ	Speaker Box,Left [BK]
254	LHLDL1001BGZZ	J AD	Holder,Tuning	303	GCABD1001BGSC	J	Speaker Box,Left [GL]
255	NGERK0002BGZZ	J AB	Gear,Tuning A	304	GCABF1001BGSA	J AQ	Speaker Box,Right [BK]
256	NGERK0003BGZZ	J AB	Gear,Tuning B	304	GCABF1001BGSC	J	Speaker Box,Right [GL]
257	JKNBM0001BGSA	J AD	Button,Surround	305	GLEGG0001BG00	J AB	Cushion,Leg,Speaker
258	JKNBP0001BGSA	J AA	Knob,Function	306	LHLDW1001BGSA	J AB	Holder,Speaker Cord [BK]
259	JKNBP0001BGSA	J AA	Knob,Dubbing Speed	306	LHLDW1001BGSC	J	Holder,Speaker Cord [GL]
260	JKNBP0002BGSA	J AB	Knob,Band Selector	307	QCNWG0001BGZZ	J AE	Cord,Speaker
261	LHLDL1002BGZZ	J AC	Holder,Record Lever	308	LPLTW0001BGZZ	J AC	Support H,Speaker Box
262	MLEVP0002BGZZ	J AB	Lever,Record	309	LPLTW0002BGZZ	J AC	Support V,Speaker Box
263	GFTAB1001BGSA	J AE	Battery Compartment Lid [BK]	701	XEBSD30P10000	J AA	Screw,ø3×10mm
263	GFTAB1001BGSC	J	Battery Compartment Lid [GL]	702	XJBSD40P16000	J AB	Screw,ø4×16mm
264	TSPC-0017BGZZ	J	Label,Specifications [GL] [For Malaysia/Asia Middle East/ Africa]	SP401,402	VSP0012PBG28A	J	Speaker,Woofers
264	TSPC-0018BGZZ	J	Label,Specifications [GL] [For Jordan/Egypt]	SP403,404	RALMB0001BGZZ	J AC	Speaker,Tweeter
264	TSPC-0020BGZZ	J	Label,Specifications [GL] [For Thailand]				

# GX-CD1200W

NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
<b>ACCESSORIES/PACKING PARTS</b>			
△	QACCA0001SJ00	J AS	AC Power Supply Cord
△	QACCE0007AW00	J AH	AC Power Supply Cord
△	QACCL0002AW00	J AN	AC Power Supply Cord
△	QPLGA0250AFZZ	J AF	Adaptor,AC Plug
△	QPLGA0253AFZZ	J AE	Adaptor,AC Plug
	SPAKA0003BGZZ	J	Packing Add.,Unit
	SPAKC0023BGZZ	J	Packing Case [GL] [For Malaysia]
	SPAKC0024BGZZ	J	Packing Case [GL] [Except for Malaysia]
	SPAKC0033BGZZ	J	Packing Case [BK] [For Malaysia]
	SPAKC0034BGZZ	J	Packing Case [BK] [Except for Malaysia]
	SSAKA0002BGZZ	J AB	Polyethylene Bag,AC Plug Adaptor
	SSAKH0002BGZZ	J AB	Polyethylene Bag,Accessories
	SSAKH0004BGZZ	J AB	Polyethylene Bag,Unit
	SSAKH0005BGZZ	J AB	Polyethylene Bag,Speaker
	TGANE0002BG03	J	Warranty Card [For Philippines]
	TGANE0003BGZZ	J	Warranty Card [For Australia]
	TINSZ0008BGZZ	J	Operation Manual
	TLABB0001BGZZ	J AB	Label,Japan
	TLABB0002BGZZ	J AC	Label,Japan
	TLABE0005BGZZ	J	Label,Ean Bar Code [GL]
	TLABE0008BGZZ	J	Label,Ean Bar Code [BK]
	TLABR1137BGZZ	J	Label,Bar Code [GL]
	TLABR1138BGZZ	J	Label,Bar Code [BK]
	TLABS0002BGZZ	J	Label,Laser
	TLABS0003BGZZ	J	Label,Class 3
	TLABZ0001BGZZ	J	Label,Contru origin for Set
	TLABZ0002BGZZ	J	Label,Contru origin for P-case
	TLABZ0009BGZZ	J	Label,Feature,Left [For Malaysia]
	TLABZ0010BGZZ	J	Label,Feature,Right [For Malaysia]
	TLABZ0011BGZZ	J	Label,Feature,Left [Except for Malaysia]
	TLABZ0012BGZZ	J	Label,Feature,Right [Except for Malaysia]

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

PWB-A1-8	DUNTK0003BG01	J —	Main/Graphic Equalizer/Volume/ Fine Tuning/Terminal A/ Terminal B/Power/Holder (Combined Ass'y)
PWB-B	QPWBF0027AWZZ	J AD	CD Motor (PWB Only)
PWB-C1-3	DUNTK0004BG01	J —	CD Servo/CD Control/Switch (Combined Ass'y)

## OTHER SERVICE PART

UDSKA0004AFZZ	J AZ	Pickup Lens Cleaner
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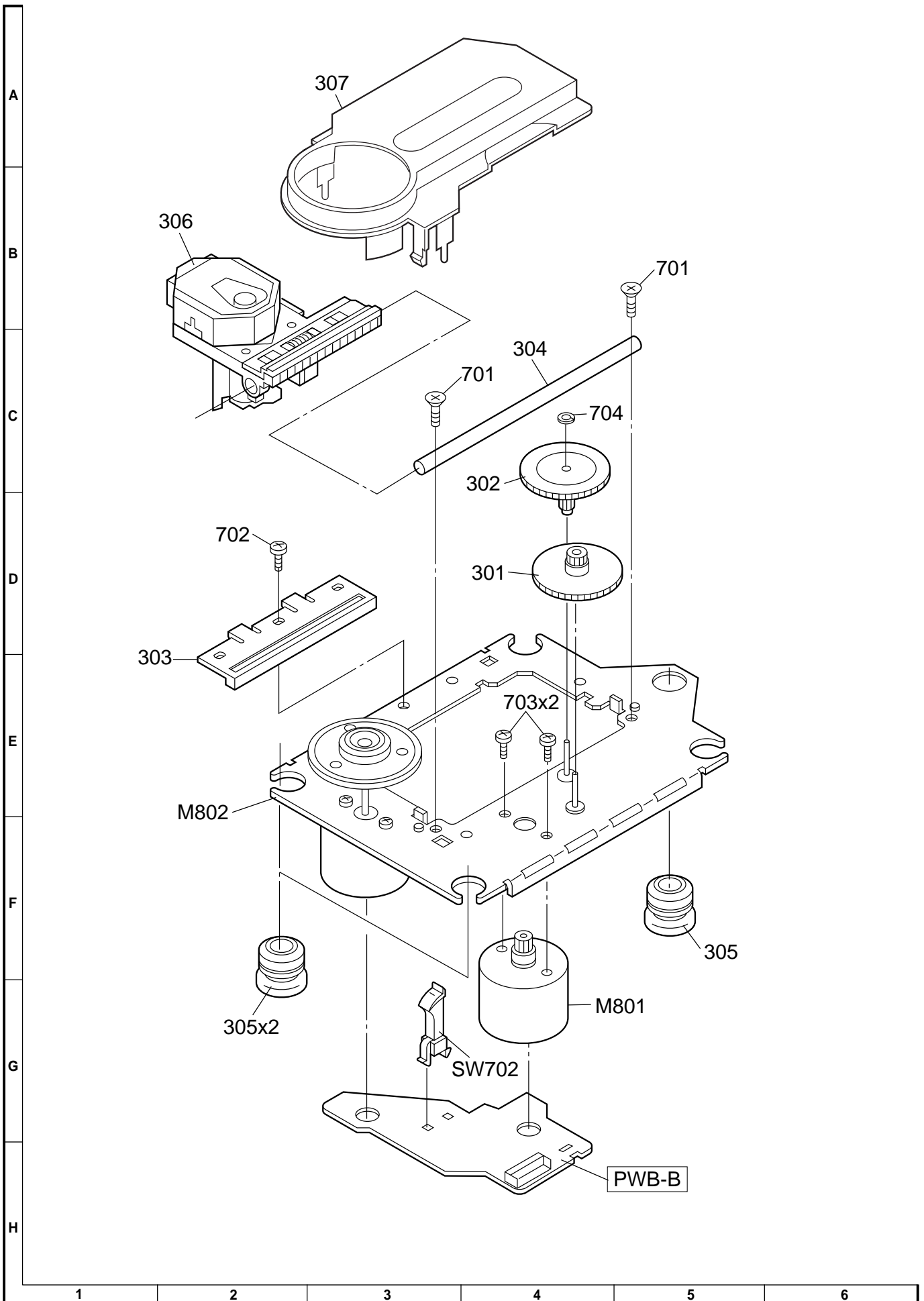


Figure 6 CD MECHANISM EXPLODED VIEW



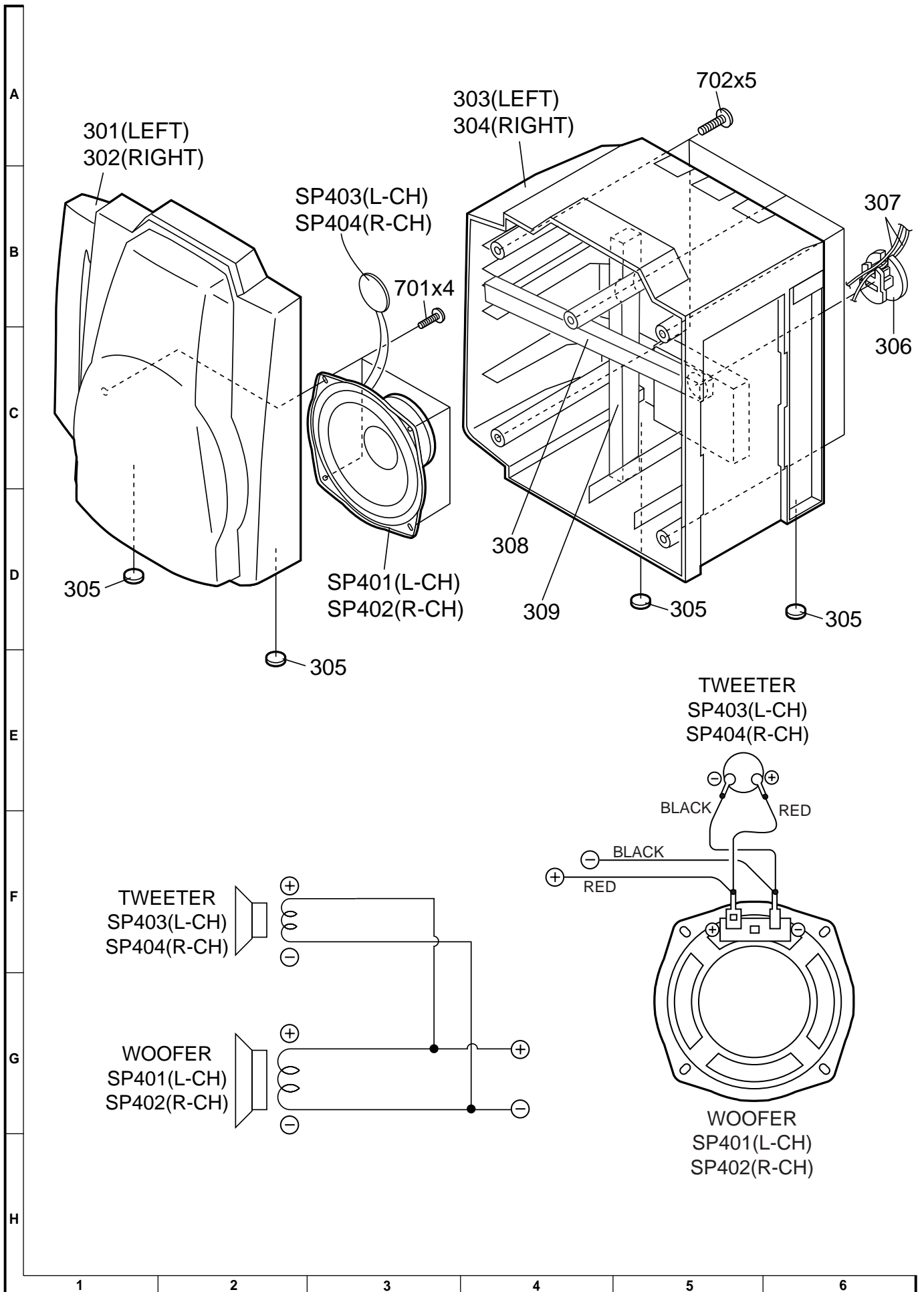


Figure 8 SPEAKER EXPLODED VIEW

**GX-CD1200W**

**— M E M O —**

— M E M O —

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**SHARP CORPORATION**  
Communication Systems Group  
Quality & Reliability Control Center  
Higashihiroshima, Hiroshima 739-0192, Japan  
Printed in Japan

A0006-1408DS•HA•I

SCA • SCNZ • EX