

SHARP SERVICE MANUAL

SY0C2CDJX20XY



CD-JX20X(GY)

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

COMPACT
disc
DIGITAL AUDIO



INDEX TO CONTENTS

	Page
SPECIFICATIONS	2
AC POWER SUPPLY CORD AND PLUG	2
CAUTIONS ON HANDLING THE UNIT	2
NAMES OF PARTS	3-5
OPERATION MANUAL	6-12
DISASSEMBLY	13-15
REMOVING AND REINSTALLING THE MAIN PARTS	16,17
ADJUSTMENT	18-22
TROUBLESHOOTING (CD SECTION)	23-26
FUNCTION TABLE OF IC	27-34
BLOCK DIAGRAM	35-38
LCD SEGMENT	39
TYPES OF TRANSISTOR AND LED	40
NOTES ON SCHEMATIC DIAGRAM	41
WAVE FORMS OF CD CIRCUIT	42
SCHEMATIC DIAGRAM/WIRING SIDE OF P.W. BOARD	43-60
EXPLODED VIEW	61-64
REPLACEMENT PARTS LIST	65-74

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

SPECIFICATIONS

● General

Power source:	AC 240 V, 50 Hz (For Australia) AC 110 V, 60 Hz (For Taiwan) AC 220 V, 50/60 Hz (For other areas) DC 15 V ["D" size (UM/SUM-1, R20 or HP-2) battery x 10] DC 3 V ["AA" size (UM/SUM-3, R6 or HP-7) battery x 2 for clock/memory battery]
Output power:	PMPO; 40 W (20 W + 20 W) (AC operation) MPO; 28 W (14 W + 14 W) (AC operation) RMS; 15 W (7.5 W + 7.5 W) (DC operation, 10% distortion)
Speakers:	10 cm (4") full range speaker x 2
Input impedance:	Mixing mic; 600 ohms Auxiliary in; 50 k ohms
Load impedance:	Headphones; 16-50 ohms (recommended 32 ohms)
Dimensions:	Width; 580 mm (22-13/16") Height; 195 mm (7-1 1/16") Depth; 238 mm (9-3/8")
Weight:	6.5 kg (14.3 lbs.) without batteries

● Radio section

Frequency range:	FM; 88-108 MHz (100 kHz span) AM; 531-1,602 kHz (9 kHz span)
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● Tape deck section

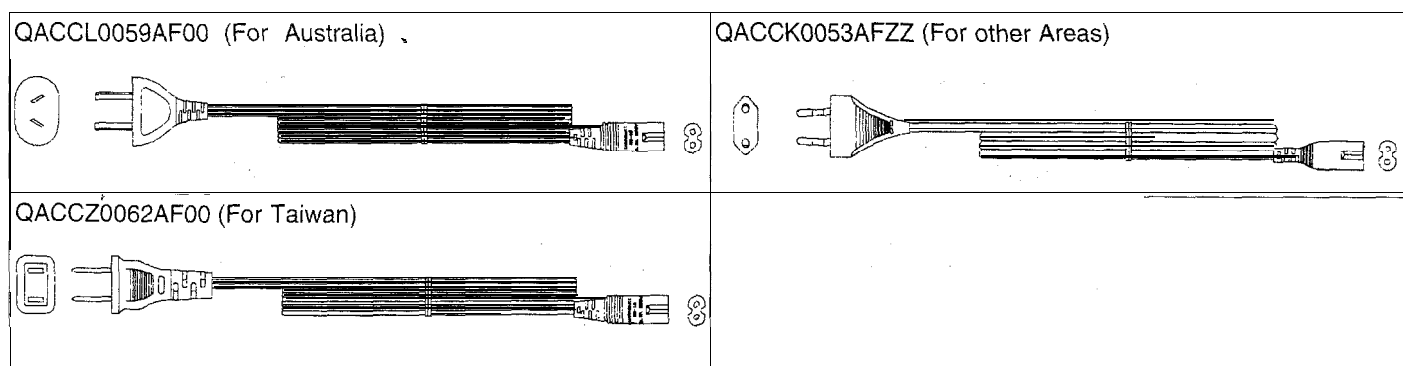
Type:	Compact cassette tape
Motor:	DC motor x 1
Head:	TAPE-1: Playback x 1 TAPE-2: Record/playback x 1 Erase x 1
Tape speed:	4.76 cm/sec (1-7/8 ips.)
Bias and erasure system:	AC

● Compact disc player section

Type:	Compact disc player
Signal readout:	Non-contact, 3-beam semi-conductor laser pickup
Rotational speed:	200 - 500 rpm CLV, Approx.
Error correction:	CIRC (Cross Interleave Reed-Solomon Code)
Audio channels:	2
Decoder:	16-bit linear quantization
Filter:	4 times oversampling 16 bit digital filter
Frequency response:	20 - 20,000 Hz(+1/-3 dB)
Wow and flutter:	Unmeasurable (less than 0.001% W. peak)

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

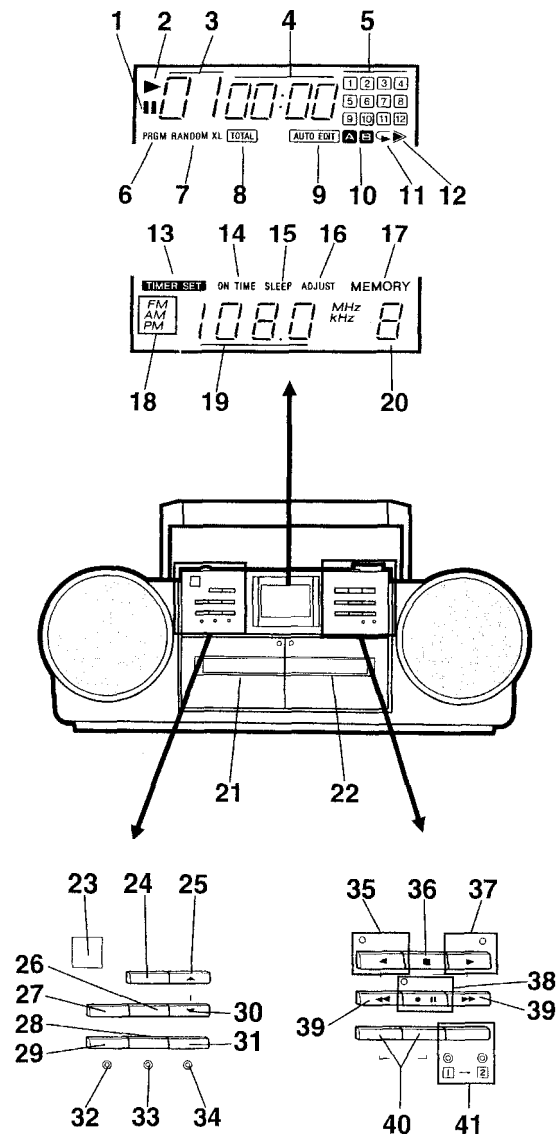
AC POWER SUPPLY CORD AND PLUG



CAUTIONS ON HANDLING THE UNIT

- Dew condensation
You know such phenomenon that, in winter, a windowpane of the heated room develops some amount of dews on its surface. This phenomenon of dew condensation may also occur at the object lens in the pickup unit in the following instances.
- When the compact disc player is operated immediately after you have turned on a heating device in your room.
- When it is operated in a room full of wet air (with steam or moisture).
- When it is operated in a warm place to which it has been moved from a rather cold place.
If the object lens has some amount of dew condensed on it, the compact disc player may fail to operate correctly as it can't read out the information data recorded on the disc surface. If such occurs, remove the compact disc from the disc table, turn on the power switch and leave the unit for some time (about 1 hour at the longest); then it will resume its normal operation.

NAMES OF PARTS



■ CD display section

1. Pause indicator: II
2. Play indicator: ►
3. Track Number Indicator
4. Minutes and Seconds Indicator
5. Music Schedule Indicators
6. Programme Indicator
7. Random Play Indicator
8. Total Time Indicator
9. Auto Editing Indicator
10. Tape Side Indicators
11. Repeat Indicator: ◀
12. Music Schedule Over Indicator: ►

■ Clock/Timer/Tuner display section

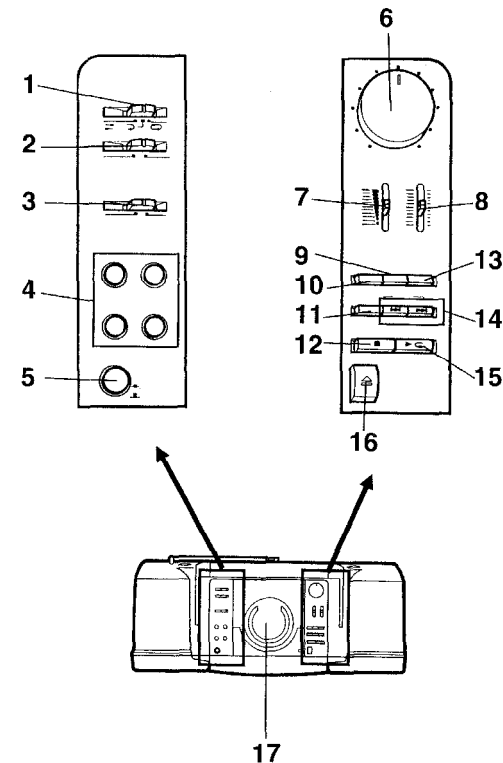
13. Timer Set Indicator
14. On Time Indicator
15. Sleep Indicator
16. Time Adjust Indicator
17. Memory Indicator
18. Band/AM/PM Indicator
19. Radio and Clock Indicator
20. Preset Channel Indicator
21. (TAPE1) Cassette Compartment
22. (TAPE2) Cassette Compartment

■ Timer/Tuner control section

23. Remote Control Sensor
24. Band Selector Button
25. Tuning Up/Hour Button
26. Auto Memory Button
27. Display Button
28. Timer Set/Reset Button
29. Memory/Time Adjust Button
30. Tuning Down/Minute Button
31. Sleep On/Off Button
32. Main Power Indicator
33. Timer/Sleep Indicator
34. FM Stereo Indicator

■ Tape control section

35. Reverse Play Button and Indicator: ◀
36. Stop Button: ■
37. Forward Play Button and Indicator: ►
38. Record Pause Button and Indicator: II
39. Fast Wind/AFSS Buttons: ◀◀/▶▶
40. One Touch Editing Buttons
41. Tape Mode Button and Indicators



1. Reverse Mode Switch
2. Timer Record Switch
3. FM Mode Switch
4. Function Selector Buttons
5. Main Power Switch
6. Volume Control
7. Bass Control
8. Tone Control

■ CD control section

9. Auto Editing Button
10. Tape Length Selector Button
11. Pause Button
12. Stop Button: ■
13. Random Play Button: RANDOM XL
14. Track Up/Down Buttons: ◀◀/▶▶
15. Play/Repeat Button: ►◀
16. CD Eject Button: ▲
17. CD Compartment

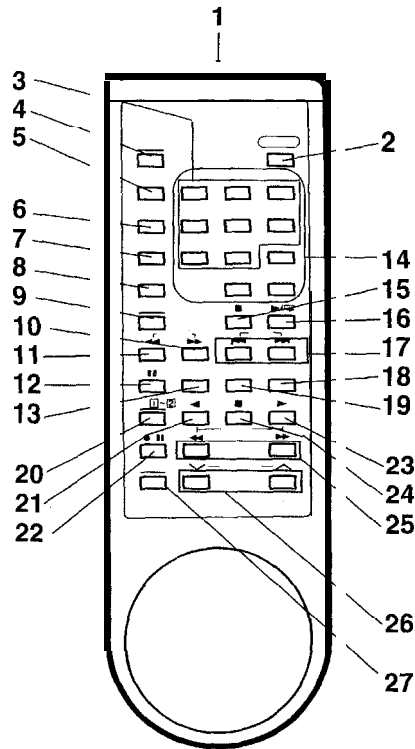
□ Rear panel

18. Woofer duct
19. FM Telescopic Rod Aerial
20. AC Power Input Socket
21. Headphones Socket
22. Beat Cancel Switch
23. Auxiliary Input Sockets
24. Mixing Microphone Socket
25. Battery Compartment

Notes:

- Do not allow any objects to fall into or to be placed in the woofer duct
- When setting up this product, leave some distance between the wall and the speaker so that you don't muffle the woofer.

■ REMOTE CONTROL



■ Names of controls

1. Remote Control Transmitter Window
2. operate Button

● Tuner control buttons

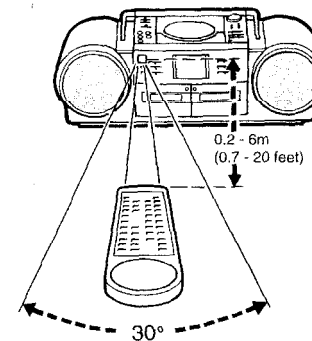
3. Preset Buttons
4. Tuner Call Button
5. Band Selector Button

● CD control buttons

6. Programme Button
7. Call Button
8. Clear Button
9. CD Call Button
10. Cue Button: ►►
11. Review Button: ◄◄
12. Pause Button: II
13. Tape Length Selector Button
14. Track Number Input Buttons
15. Stop Button: ■
16. Play/Repeat Button: ►◄
17. Track Up/Down Buttons: ◄◄/►►
18. Random Play Button: RANDOM XL
19. Auto Editing Button

● Tape control buttons

20. Tape Call and Tape 1/2 Select Button
- This function will change to TAPE when this button is pressed once. After the function has changed to TAPE, TAPE 1 or 2 can then be selected by pressing the-button again.
21. Reverse Play Button: ◄
22. Record Pause Button: ● II
23. Forward Play Button: ►
24. Stop Button: ■
25. Fast Wind/AFSS Buttons: ◄◄/►►
26. Volume Up/Down Buttons: ∨/∧
27. Auxiliary Call Button



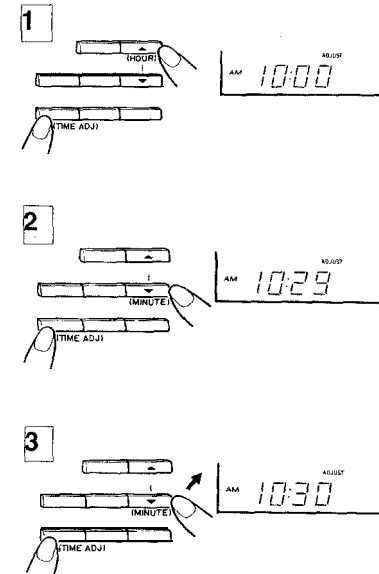
■ Proper use of the remote control

Aim (within the range of 30°) with no obstacles, the remote control at the remote control sensor and operate as shown

Notes concerning use:

- Replace the batteries if control distance decreases or operation becomes erratic.
- Periodically clean the transmitter window on the remote control and the sensor on the main unit with a soft cloth
- Exposing the sensor on the main unit to strong light can interfere with operation. Change lighting or the direction of the unit
- Keep the remote control away from moisture, excessive heat, shock, and vibrations.
- The remote control's usable range is between 0.2 m (0.7 feet) and 6 m (20 feet) away from the sensor

SETTING THE CLOCK



- Whilst the frequency indicator on the tuner or the "ON TIME" indicator is lit, press the DISPLAY button to display the time

1 Whilst pressing the TIME ADJ button, press the HOUR button and set the hour.

- Press the HOUR button once to advance the time by 1 hour Press for more than 2 seconds to advance continuously. "AM" changes automatically to "PM".
- On the display, midnight is "AM 12:00" and noon is "PM 12:00". When setting the time, be careful not to confuse AM and PM.

2 Whilst pressing the TIME ADJ button, press the MINUTE button and set the time to 1 minute before the desired time. Press the MINUTE button once to advance the time by 1 minute. Press for more than 2 seconds to advance continuously.

- The hour setting will not advance even if minutes advance from "59" to "00".

3 Whilst pressing the TIME ADJ button, press the MINUTE button once to start the clock at the correct time.

- The minute display will advance by one, and the clock starts operating from "0" seconds. (Seconds are not displayed.)

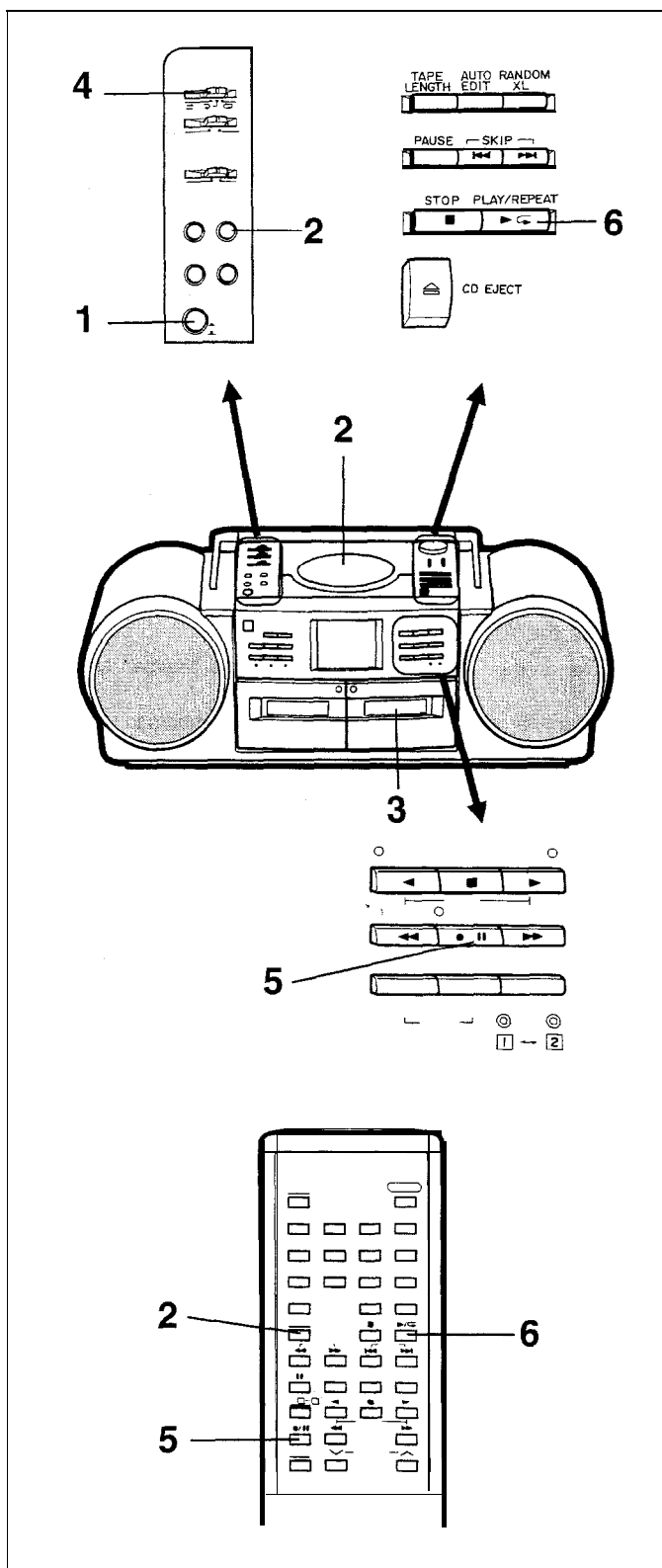
Note:

- When setting the time, complete the procedure within 1 minute; if more than 1 minute elapses, the "minute" indication will advance.
- When the current time and timer clock are not displayed, remove the AC power lead, remove the clock/memory batteries, then re-insert them. Then, re-connect the AC power lead

RECORDING

- When recording important selections, be sure to make a preliminary test to ensure that the desired material is being properly recorded.
- The ALC (Automatic Record Level Control) circuit automatically controls the level of the input signal used for recording.

- The VOLUME, TONE and BASS controls may be adjusted with no effect on the recorded level. (Variable Sound Monitor)



■ Recording from the built-in CD player (CD Synchronised Recording System)

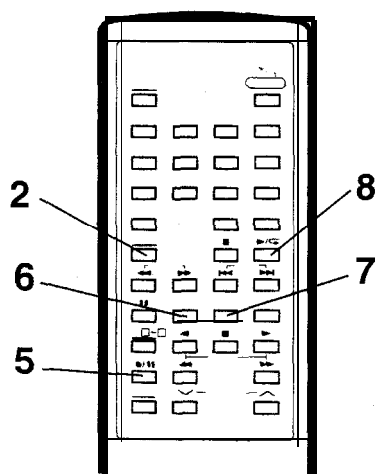
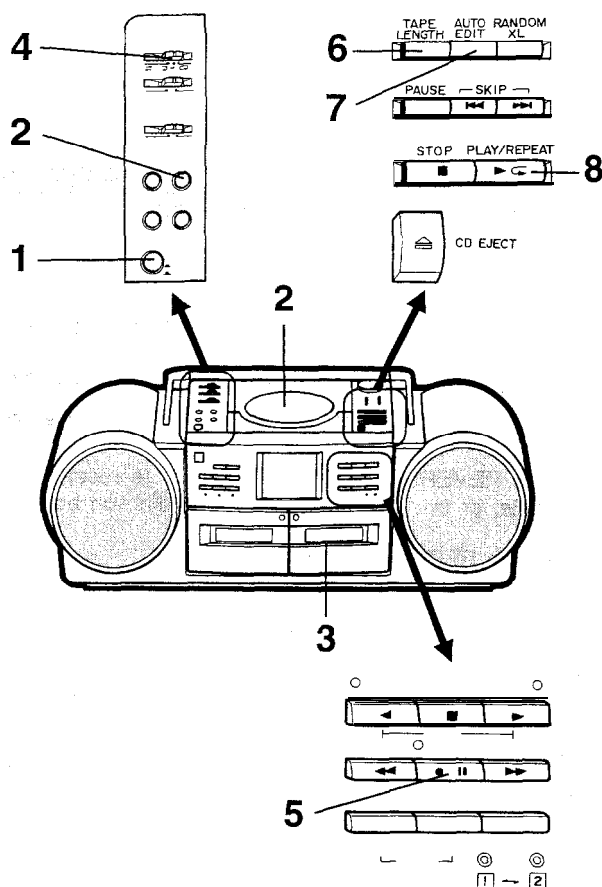
- 1 Set the MAIN POWER switch to ON.
- 2 Press the CD button and load the CD to be recorded.
- 3 Load a cassette into the TAPE 2 cassette compartment.
 - Wind the beginning part of the tape on which recording can not be performed.
- 4 Set the REVERSE MODE switch to $\rightleftarrows$ to record on only one side, or to $\rightleftarrows$ for continuous recording on both sides.
- 5 Press the REC PAUSE (●||) button.
 - The REC PAUSE indicator lights up and the PLAY indicators flash.
- 6 Press the PLAY/REPEAT (▶◀) button.
 - Before CD playback begins, recording automatically begins from side A of the tape.

To interrupt recording:

- 1 Press the PAUSE (||) button on the CD.
- 2 Press the PLAY/REPEAT (▶◀) button to resume recording.

To stop recording:

Press the STOP (■) button on the tape.
(At this time, CD playback does not stop.)



■ To edit tracks dividing them to side A and side B automatically (Auto editing function)

To use tapes effectively, tracks on a CD are automatically divided between side A and side B and edited.

When the desired tracks are selected in programme selection, the tracks stored in memory are automatically divided between side A and side B.

- 1 Set the MAIN POWER switch to ON.
- 2 Press the CD button and load the CD to be recorded.
- 3 Load a cassette into the TAPE 2 cassette compartment.
 - Rewind the tape onto the left-side reel.
- 4 Set the REVERSE MODE switch to $\Rightarrow$.
- 5 Press the REC PAUSE (⏸) button.
 - The REC PAUSE indicator lights up and the PLAY indicators flash.
- 6 Press the TAPE LENGTH button.

When using tapes other than C-46

Press the SKIP (⏭) or SKIP (⏮) button to adjust the time (minute by minute).

- "C10" to "C99" can be set.

- 7 Press the AUTO EDIT button.
 - Tracks on the CD are automatically divided between side A and side B.
 - The number of tracks, total time and track numbers to be recorded on side A and side B are displayed for approximately 4 seconds. (When there are tracks which can not be recorded, the TIME OVER indicator will light up.)
- 8 Press the PLAY/REPEAT (▶) button.
 - CD playback and recording start approximately 9 seconds after the tape starts (after the part which can not be recorded is wound).

To cancel auto editing function:

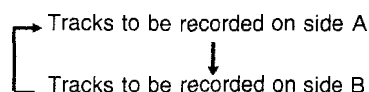
Before recording, press the STOP (■) button on the CD.

To stop recording:

Press the STOP (■) button on the tape.
(At this time, CD playback automatically stops.)

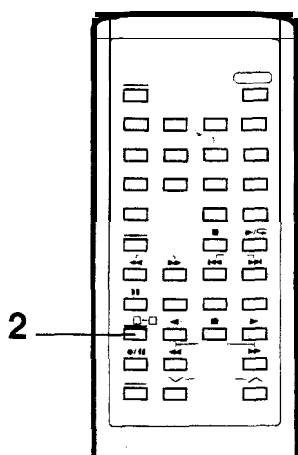
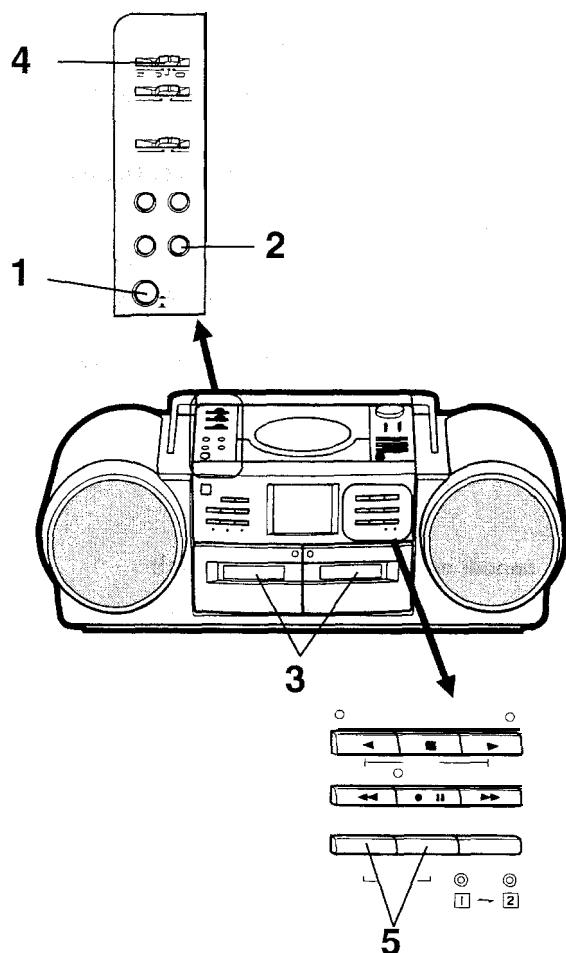
To confirm tracks to be recorded and tracks which can not be recorded:

Before recording, press the AUTO EDIT button.



Note:

- Once CD playback starts, the display does not change.



■ Dubbing

- Try to use the same tape formula and length for the recording tape as for the master tape.

1 Set the MAIN POWER switch to ON.

2 Press the TAPE button.

3 Load a prerecorded cassette into the TAPE 1 cassette compartment. Insert a blank tape into the TAPE 2 cassette compartment.

4 Set the REVERSE MODE switch to $\rightleftarrows$ to record on only one side, or to $\longleftrightarrow$ for continuous recording on both sides.

5 Press the ONE TOUCH EDIT button.

- Press "NORMAL" to edit at normal speed, and "HIGH" to edit at twice the normal speed.

- Editing will begin with side A.

To stop dubbing:

Press the STOP (■) button.

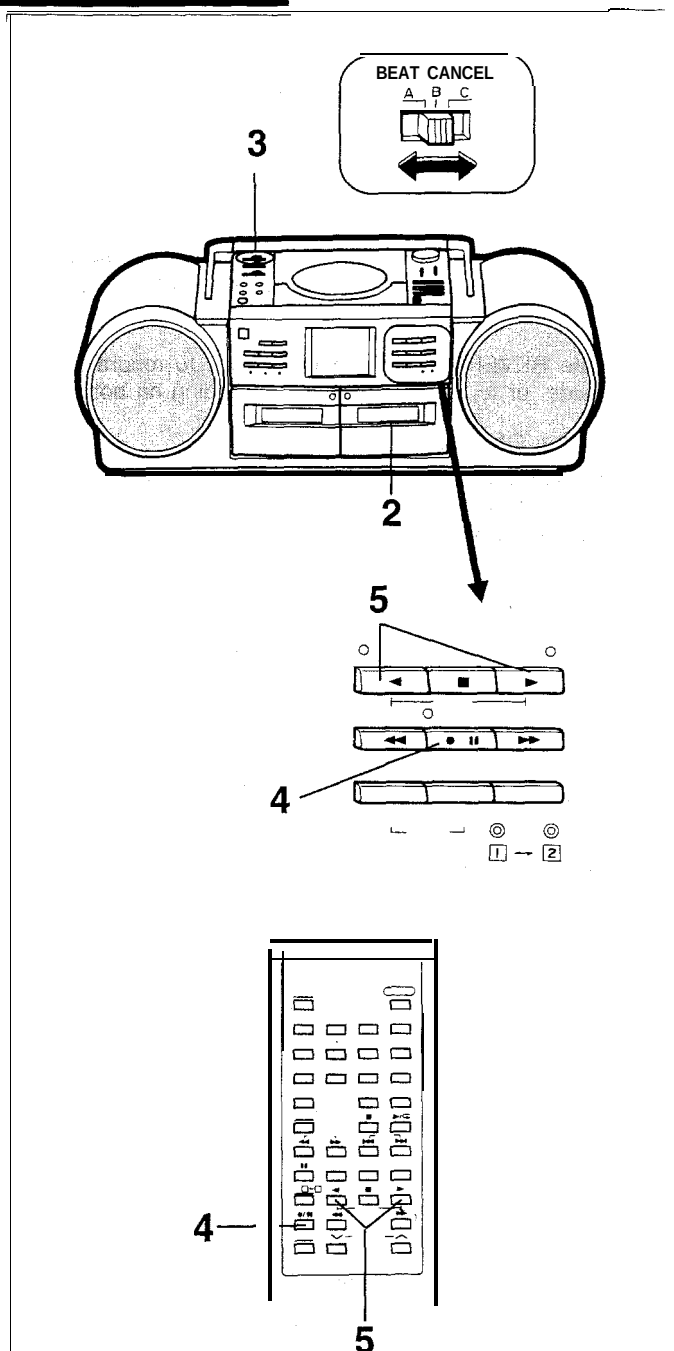
- TAPE 1 and TAPE 2 simultaneously stop.

After dubbing

The indicator of the TAPE 1 2 button is automatically switched to "2". Only when the tape is rewound and played back, the contents currently dubbed can be confirmed.

Synchro-reverse editing function

When tapes which are different in length are used for recording and editing continuously on both sides, as soon as one tape finishes, the other is automatically fast forwarded, and edition begins from the beginning of the other side.



■ APSS spacing

APSS requires blanks of 4-5 seconds between selections to function properly. Make the blanks as follows.

1 Press the REC PAUSE (●||) button when the selection being recorded ends.

2 Press the AUX button.

Note:

Do not connect anything to the AUX sockets.

3 Press the PLAY (▶) or PLAY (◀) button of which its indicator is lit, let the tape run for 4 - 5 seconds, then press the REC PAUSE (●||) button again.

4 Press the TUNER button.

5 Start the next recording.

■ Recording from the built-in radio

1 Tune into the desired station.

2 Load a cassette into the TAPE 2 cassette compartment.

3 Set the REVERSE MODE switch to ⇄ to record on only one side, or to ⇅ for continuous recording on both sides.

4 Press the REC PAUSE (●||) button.

● The REC PAUSE indicator lights up and the PLAY indicators flash.

5 Press the PLAY (▶) button to record side A, or the PLAY (◀) button to record side B.

● For continuous recording of both sides, begin on side A. Recording stops automatically at the end of side B.

Beat cancel switch (on the rear panel)

If beating noise occurs with AM, set the BEAT CANCEL switch to A, B or C, whichever gives the best reception.

■ Erasing recorded tapes

1 Load the tape to be erased into the TAPE 2 cassette compartment.

2 Press the AUX button.

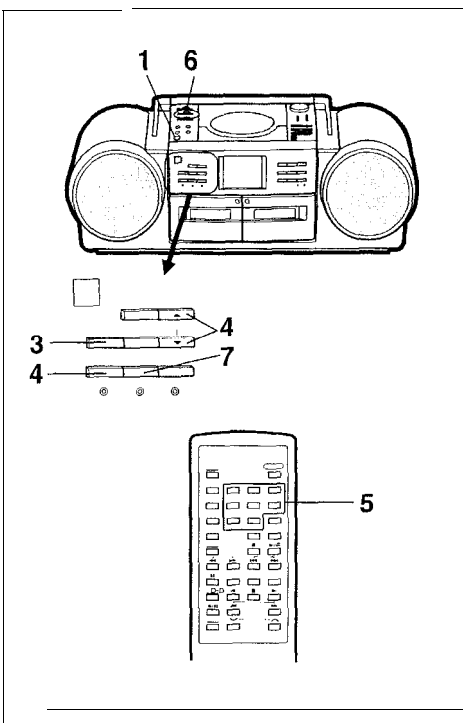
Note:

Do not connect anything to the AUX sockets.

3 Set the REVERSE MODE switch to ⇄ to erase only one side and to ⇅ to erase both sides.

4 Press the REC PAUSE (●||) button, then press the PLAY (▶) button to erase side A of tape, or the PLAY (◀) button to erase side B.

HOW TO USE



- Before setting the timer clock, make sure that the current time is correct.

■ Timer operation

To listen to the radio

You can listen to a broadcasting station with the timer-on function different from that to which you are listening with timer-off function. However, the band should be the same.

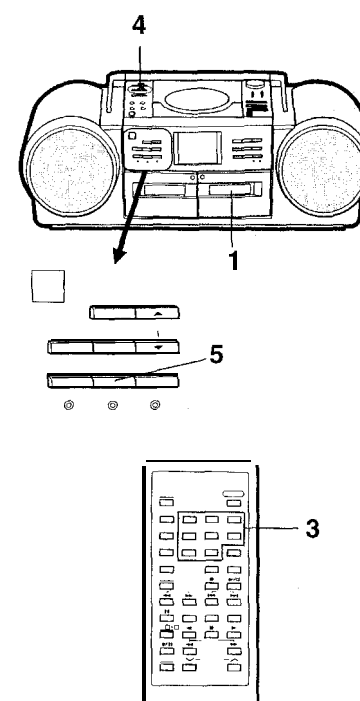
- 1 Set the MAIN POWER switch to ON.
 - 2 Tune into the desired station.
 - 3 Press the DISPLAY button.
The "ON TIME" Indicator goes on for 5 seconds.
 - 4 Whilst the "ON TIME" indicator is lit, and whilst pressing the TIME ADJ button, press the HOUR and MINUTE buttons to set the desired time.
 - 5 Whilst the "ON TIME" indicator is lit, select the desired preset station on the remote control.
 - 6 Set the TIMER REC switch to OFF.
 - 7 Press the TIMER button.
The "TIMER SET" appears on the display.
This sets the timer to the stand-by condition.
- The radio turns on automatically at the preset time.
 - When you listen to the same broadcasting station with the timer-on and timer-off functions to which you are listening, step 5 is unnecessary.

To listen to the compact disc

- 1 Set the MAIN POWER switch to ON.
- 2 Press the CD button.
- 3 Load the disc.
- 4 Perform steps 3,4 and 6,7 of the "To listen to the radio" section.
The CD playback starts automatically at the preset time.

To playback a cassette

- 1 Set the MAIN POWER switch to ON.
- 2 Press the TAPE button.
- 3 Load the recorded cassette tape into the TAPE 2 cassette compartment.
- 4 Perform steps 3,4 and 6,7 of the "To listen to the radio" section.
Cassette playback starts automatically at the preset time.



To record radio programmes

You can record a broadcasting station different from that to which you are listening. However, the band should be the same.

- 1 Load a blank cassette tape into the TAPE 2 cassette compartment.
 - 2 Perform steps 1-4 of the "To listen to the radio" section.
 - 3 Whilst the "ON TIME" Indicator is lit, select the desired preset station on the remote control.
 - 4 Set the TIMER REC switch to ON.
 - 5 Press the TIMER button.
The "TIMER SET" appears on the display.
This sets the timer to the stand-by condition.
- Recording starts automatically at the preset time.
 - When you record to the same broadcasting station with the timer-on and timer-off functions to which you are listening, step 3 is unnecessary.

Notes:

- The power will be automatically turned off 2 hours after the timer starts.
- To set the desired volume level, use the VOLUME control before setting the timer.

To confirm the timer time setting:

Press the DISPLAY button

- The tuner will keep accurate time until the clock/memory batteries run out

To cancel timer operation:

Press the TIMER button so that the "TIMER SET" in the display goes out, or set the MAIN POWER switch to ϕ STAND-BY.

■ Sleep operation

The radio, compact disc and cassette deck can all be automatically turned off after 60 minutes.

Press the SLEEP button.

To stop the sleep operation:

Press the SLEEP button.
(The SLEEP indicator will go out.)

■ Timer and sleep operation

- 1 Use the left procedure to confirm the sleep time
 - 2 Set the timer time.
 - 3 Press the TIMER button. The "TIMER SET" appears on the display.
- The function will not change, so the function which you were listening to in the sleep operation will begin the timer operation.

DISASSEMBLY

Caution on Disassembly

Follow the below-mentioned notes when disassembling this unit and reassembling it, to keep its safety and 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 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.

STEP	REMOVAL	PROCEDURE	FIGURE
1	Front panel *1	1. Open the battery lid. (A1)x1 2. Screw (A2)x9 3. Open the cassette lid. (A3)x2 4. Socket (A4)x1	13-1 15-1
2	CD block	1. screw (B1)x5 2. Socket (B2)x2	13-2, 14-1 14-2
	I. CD servo PWB	1. Screw (C1)x4 2. Socket (C2)x1 3. Flexible PWB (C3)x1	14-2
	2. CD mechanism	1. Screw... (D1)x3	14-2
3	Frame (with PWB)	1. Screw (E1)x3 2. Socket (E2)x5	13-2, 14-1 14-3, 5
4	Tape mechanism	1. Screw (F1)x3 2. Socket (F2)x4	14-5 14-4
5	LCD PWB	1. Screw (G1)x6 2. Socket (G2)x2 3. Connector (G3)x1	14-1
6	CD switch PWB	1. Knob... (H1)x1 2. Screw... (H2)x4 3. Connector... (H3)x1	14-5
7	Main PWB	1. Screw... (J1)x6 2. Connector... (J2)x1	14-5
8	Volume PWB	1. Nut... (K1)x1 2. Washer... (K2)x1	14-5
9	Tuner PWB	1. Screw... (L1)x4 2. Chip... (L2)x1 3. Socket... (L3)x2	15-1
10	Power PWB	1. Screw... (M1)x4	15-1

Removing the CD mechanism

Following the disassembling procedure, steps 1 and 2, remove the CD mechanism.

Removing the frame (with main/CD switch/function selection/volume/relay PWB)

Following the disassembling procedure, steps 1, 2, 3, remove the frame.

Removing the tape mechanism

Following the disassembling procedure, steps 1 and 4, remove the tape mechanism. However this procedure makes it difficult wire treatment when assembling. Therefore disassemble, following the steps 1, 2, 3, 4, (As for removal of main parts refer to p.16 - 17)

■ Cares When Assembling

*1 When assembling the front panel, carefully treat the wires of speaker box part (at the place where the front panel is engaged with the rear cabinet) so that wire is not broken. (See Fig. 15-2.)

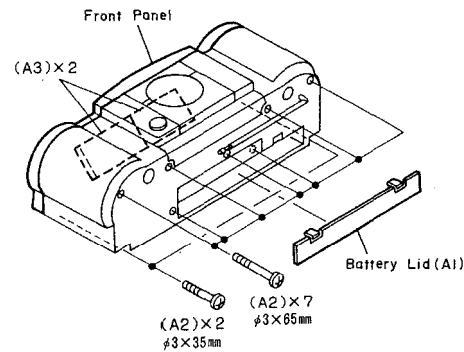


Figure 13-1

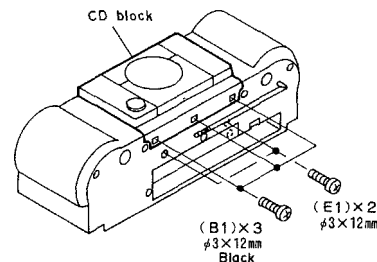


Figure 13-2

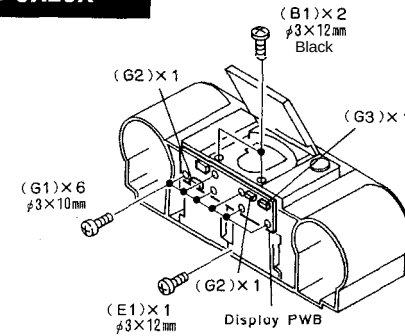


Figure 14-1

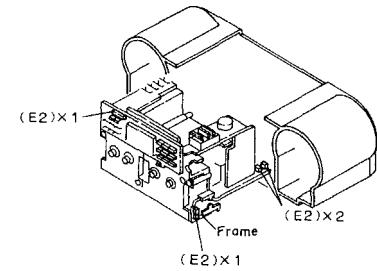


Figure 14-3

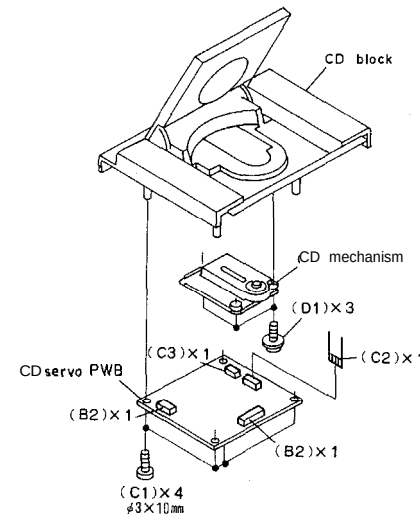


Figure 14-2

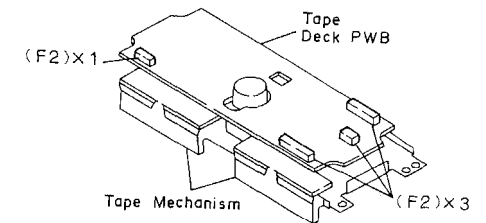


Figure 14-4

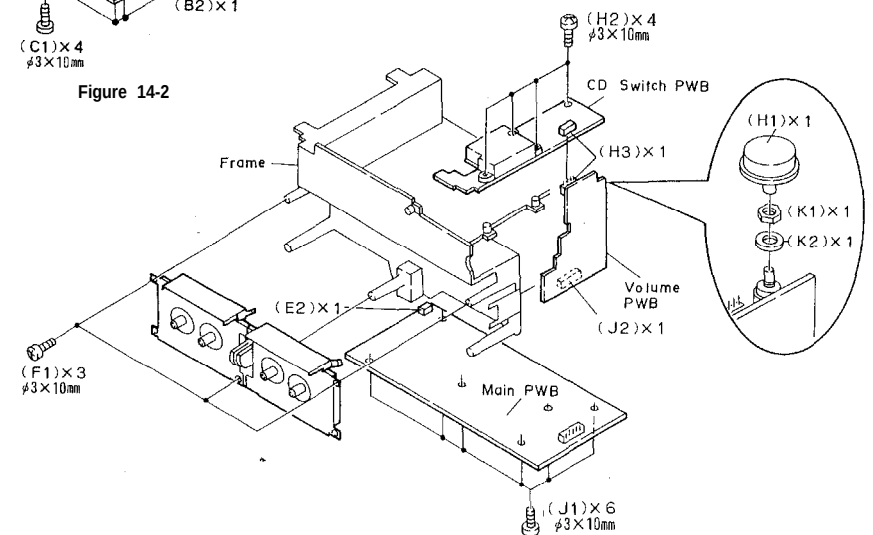


Figure 14-5

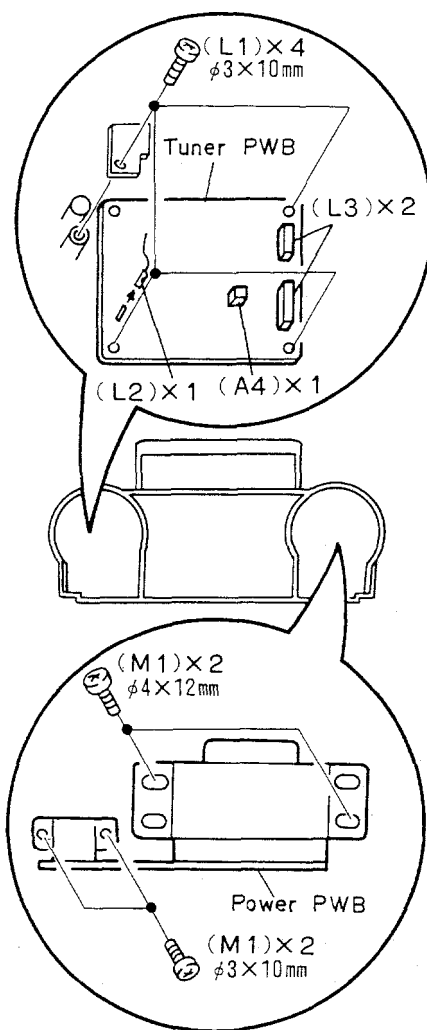


Figure 15-1

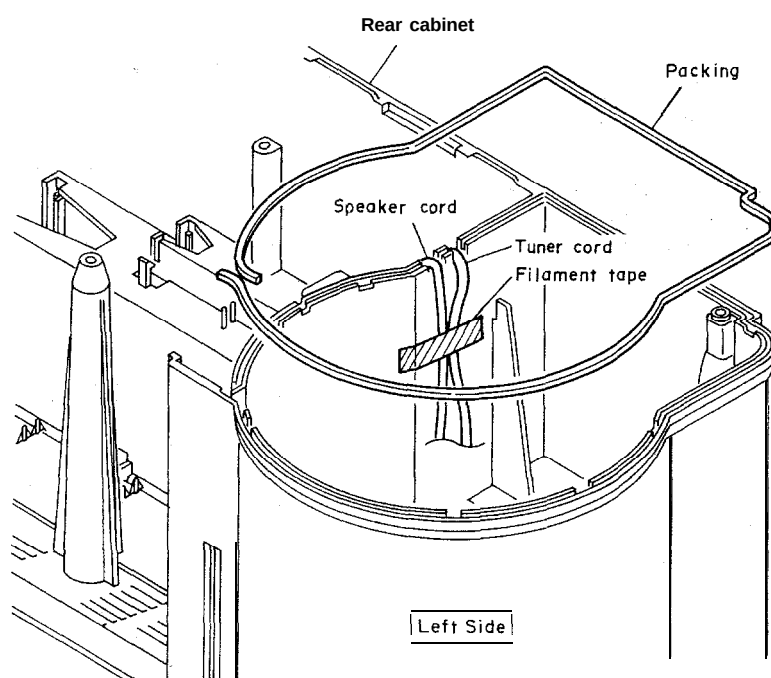


Figure 15-2

REMOVING AND REINSTALLING THE MAIN PARTS

TAPE MECHANISM SECTION

Perform steps 1, 2, 3, 4, 5, 6, and 7 of the disassembly method to remove the tape mechanism.

Main/FF, Rewind Belt (See Fig. 16-1.)

1. Remove the main belt, (A1) x 1 pc., at the tape 2 side from the motor pulley.
2. Remove the main belt, (A2) x 1 pc., at the tape 1 side from the motor pulley.
3. Remove the FF/Rewind belt, (A3) x 2 pcs., from the FF/Re-
wind roller.
4. Put on the belts in the reverse order of removal.

Note:

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

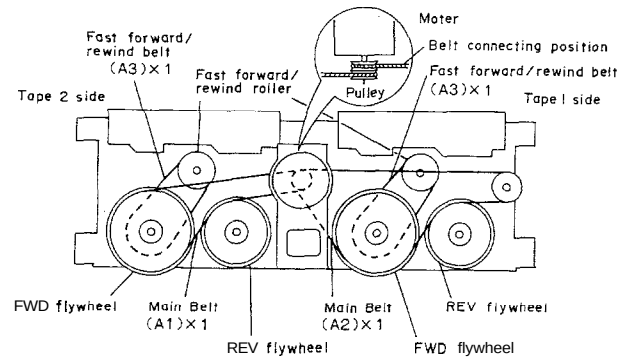


Figure 16-1

Motor (See Fig. 16-2, 3)

1. Remove the screw, (B1) x 4 pcs., and remove the motor fixture.
2. Remove the screw, (B2) x 3 pcs., and remove the motor.

Note:

1. When mounting the motor, pay attention to the motor mounting angle.
2. When the motor is removed, the belt comes off. Put it on, referring to the description of belt putting-on.

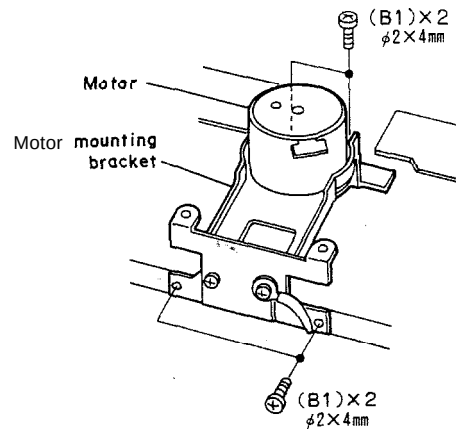


Figure 16-2

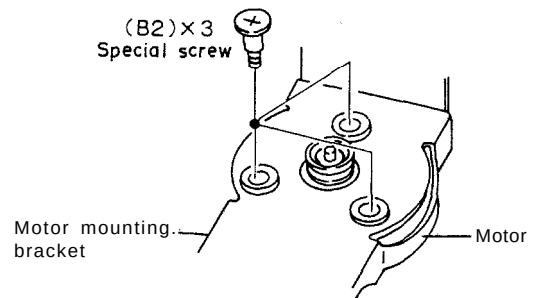


Figure 16-3

Switch PWB (See Fig. 16-4.)

1. Remove the screw, (C1) x 2 pcs., and remove the switch protective plate.
2. Remove the screw, (C2) x 1 pc., remove solder joint of solenoid, (C3) x 4 pcs., and remove the switch PWB.

Note:

1. When mounting the PWB, ascertain that the photocoupler transistor does not contact the magnet on the reel stand and keep in mind that the switch exists between it and FF/Rewind lever.

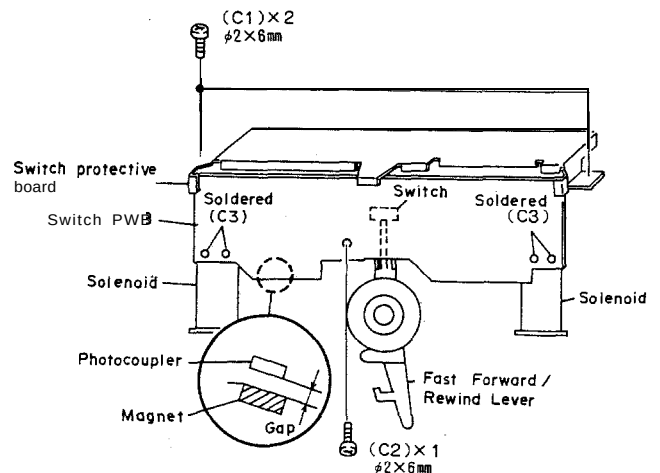


Figure 16-4

How to remove the flywheel (See Fig. 17-1.)

1. Remove the drive belt.
2. Remove the stop washer (D1) with a small precision screwdriver to extract the flywheel from the capstan metal.

Note:

1. When the stop washer is deformed or damaged, replace it with a new one.

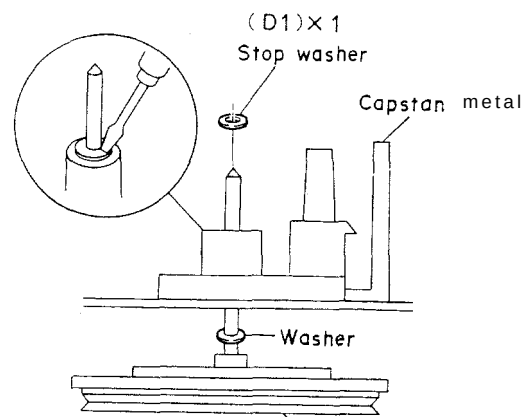


Figure 17-1 Flywheel

Pinch Roller (See Fig. 17-2.)

1. Carefully release the pinch roller dog in the direction indicated by the arrow mark (A), and remove the pinch roller, (E1) x 1 pc., upward.

Removing the Record/Playback/Erase Head (See Fig. 17-2, 4.)

1. Remove the screw, (F1) x 2 pcs., and remove the head base.
 2. Remove the screw, (F2) x 2 pcs., and remove the head.
- Cares When Mounting the Head
Mount the head in the position shown in Fig. 17-4.
Be sure to apply screw lock after replacement of head and azimuth adjustment.

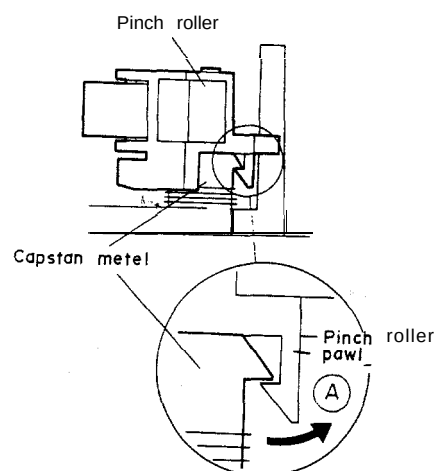


Figure 17-2

CD MECHANISM SECTION

Removing the optical pickup (See Fig. 17-5.)

1. Remove 4 pawls (G1) and remove cover (G2).
2. Remove 4 screws (G3) and remove 2 shafts (G4).

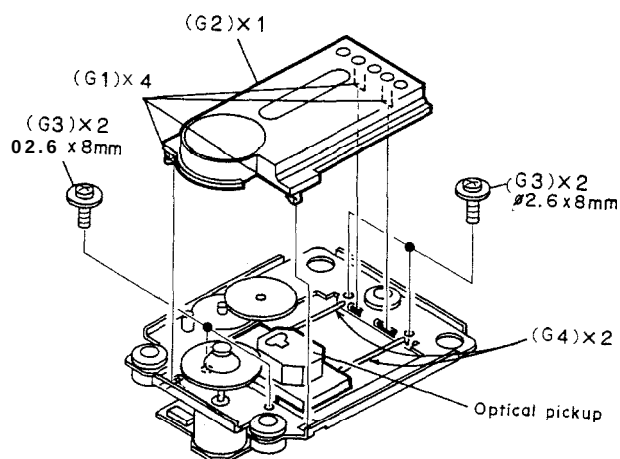


Figure 17-5

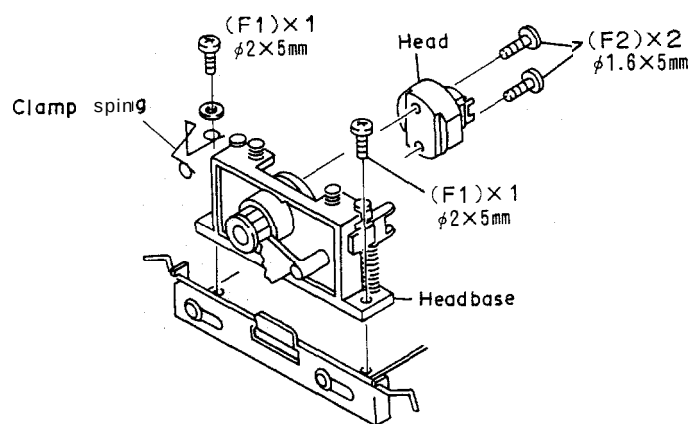


Figure 17-3

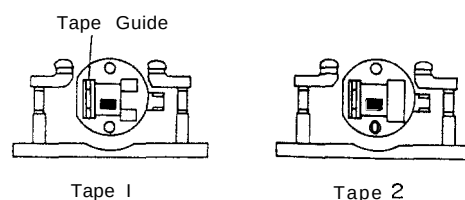


Figure 17-4

ADJUSTMENT

As for adjusting method refer to the relevant explanation in Service Manual "ADJUSTMENT PROCEDURES OF AUDIO PRODUCTS".

MECHANISM SECTION

• Driving Force Check

Torque Meter	Specified Value	
	Tape 1	Tape 2
Play: TW-2412	Over 80 g	Over 80 g
Reverse Play: TW-2422	Over 80 g	Over 80 g

• Torque Check

Torque Meter	Specified Value	
	Tape 1	Tape 2
Play: TW-2111	30 to 60 g.cm	30 to 60 g.cm
Reverse Play: TW-21	30 to 60 g.cm	30 to 60 g.cm
Fast Forward: TW-21231	70 to 140 g.cm	70 to 140 g.cm
Rewind: TW-2231	70 to 140 g.cm	70 to 140 g.cm

• Head Azimuth

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

• Tape Speed

Test Tape	Adjusting Point	Specified value	Instrument Connection
MTT-111	VR251	3,000 ± 10 Hz	Headphones socket (Load resistance: 32 ohms)

* Make adjustments to TAPE 2 (FWD side), and only check the settings of TAPE 1.

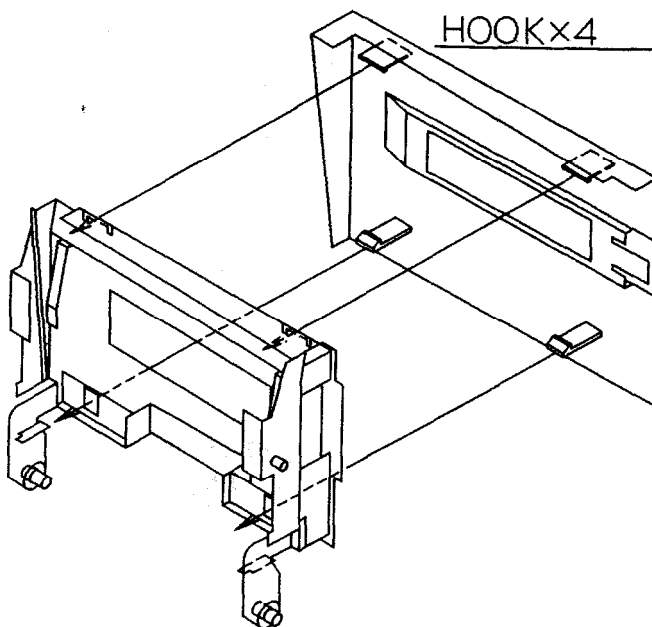


Figure 18-1 REMOVAL OF CASSETTE HOLDER

TAPE SECTION

Position of each switch or control

Volume	Max
Beat cancel	A
Bass	Center
Tone	Center
Function	Tape/Stand-by
FM mode/Tape selector	Stereo/Normal

• Bias Oscillation Check

	Specified value
Beat cancel	A: 104 ± 7 kHz B: -4 ± 2 kHz for A C: Same as A

• Erase Current Check

	Specified value
Resistor for measurement: 1 ohm	Normal: 75 ± 30 mV CrO2: 100 ± 30 mV Metal: 175 ± 35 mV

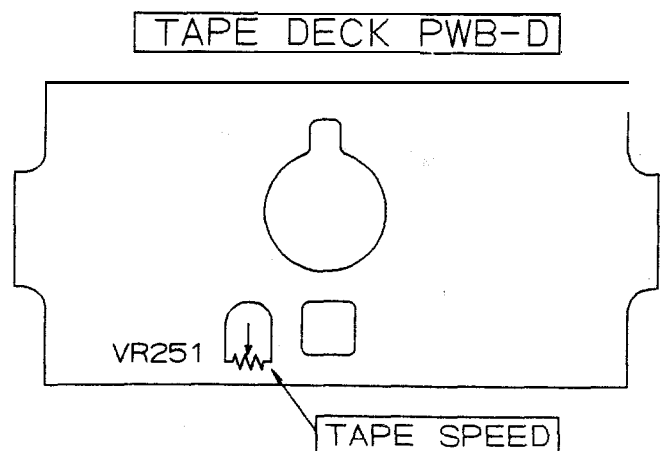


Figure 18-2 ADJUSTMENT POINTS

TUNER SECTION

fL:Low-range frequency

fH:High-range frequency

• AM IF/RF

Adjustment	Adjusting part	Setting
IF	CF3	Optimize IF waveform.
Frequency cover (Pin 6 of TUN1 Vt line voltage)	fL: L2 (531 kHz)	fL: 1.1 ± 0.1 V fH: 7.2 ± 1.0 V - 0.5 V (fH needs only check.)
Tracking	fL: L3 (603 kHz) fH: TC1 (1,404 kHz)	Raise speaker terminal output up to maximum.

• FM IF/RF

Test Stage	Adjusting point	Specified Value/adjusting method
Detection	T1 (98 MHz, 60 dB)	0 ± 30 m V(DC)

• FM Autostop Sensitivity

Signal oscillator	Adjusting part	Adjusting method
Mono 30 dB	VR1 (98 MHz)	Adjust to the place where change from 3 V to 0 V occurred.

• VCO Frequency

Signal oscillator	Setting	Adjusting part
No modulation	VR2	$19 \text{ kHz} \pm 100 \text{ Hz}$

• Adjusting signals

Frequency	Modulation frequency	Modulation factor	Antenna input level
FM monaural			
98MHz	400Hz	22.5kHzdev	60dB
FM stereo			
98MHz	1,000Hz	*1	60dB

*1Max. frequency deviation is 67.5 kHzdev in case of SSG output mode MAIN.
Frequency deviation caused only by SSG pilot signal is 7.5 kHzdev.

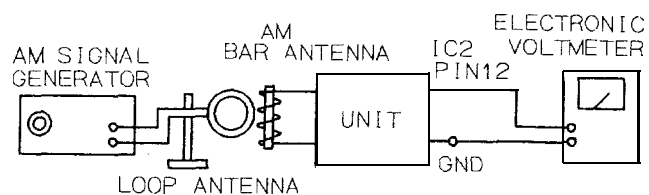


Figure 19-1 AM IF

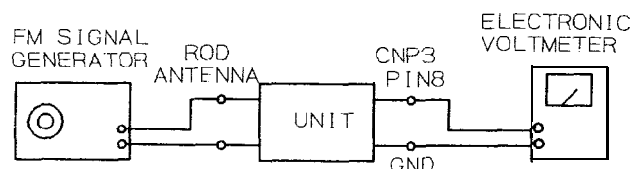


Figure 19-2 FM IF

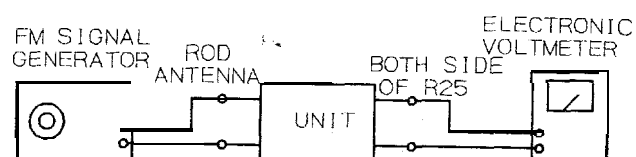


Figure 19-3 FM AUTO STOP SENS.

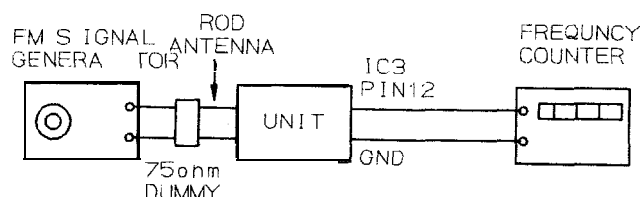


Figure 19-4 VCO FREQUENCY

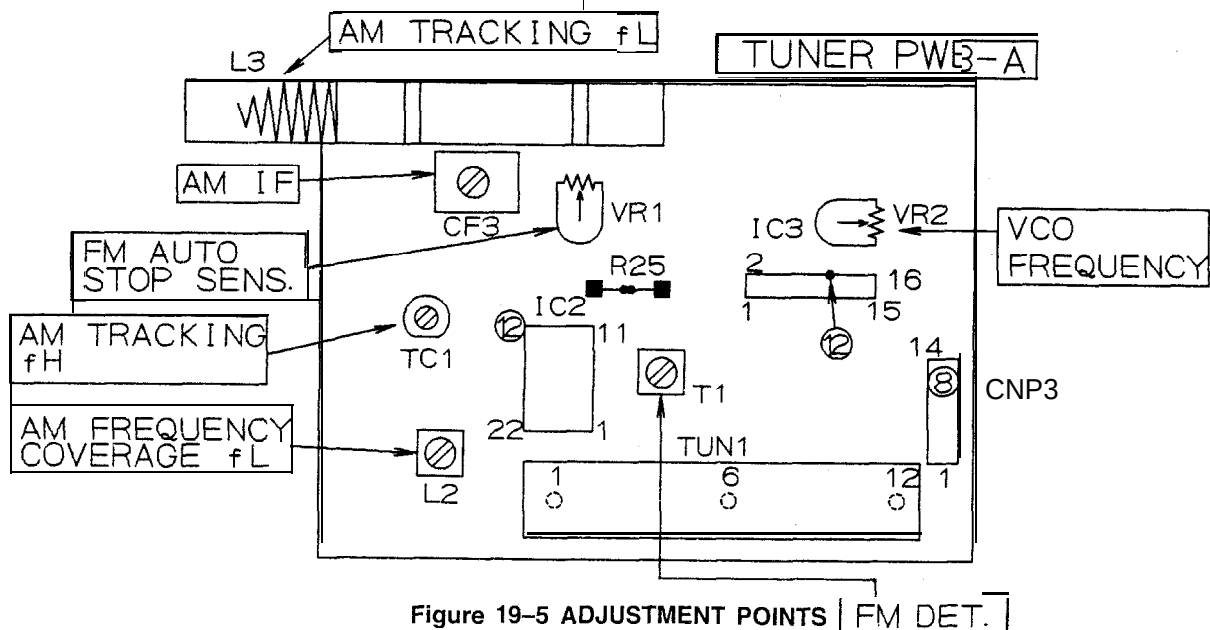


Figure 19-5 ADJUSTMENT POINTS [FM DET.]

CD SECTION

As for preparation for adjustment, adjustment method and optical pickup replacement method refer to the Service Manual (Audio Equipment Adjustment).

1.Preparation for Adjustment

Be sure to refer to the Service Manual "Audio Equipment Adjustment".

Setting the Test Mode

Test Mode	Setting Method	Remarks	Display
TEST MODE 0	Pressing simultaneously the "RANDOM" and "SKIP" buttons, set the input selection switch to "CD".	All the segments light for 2.0 seconds and then the Test Mode 0 indication appears.	00 TEST
TEST MODE 1	In TEST MODE 0 press once the PLAY button. (1st)	Laser lights.	01 TEST
TEST MODE 2	In TEST MODE 1 press once the PLAY button. (2nd)	Focus start (Servo ON)	02 TEST
TEST MODE 3	In TEST MODE 2 press once the PLAY button. (3rd)	Disc rotates. (Spin servo ON) (Use the disc.)	03 TEST
TEST MODE 4	In TEST MODE 3 press once the PLAY button. (4th)	Tracking servo ON (Use the disc.)	04 TEST
TEST MODE 5	In TEST MODE 4 press once the PLAY button. (5th)	Track No. and time are indicated. (Use the disc.)	▶ 11 1:38

After TEST MODE 5 the PLAY button is inoperative. Even when it is pressed (6th time), key entry is not accepted.

Unless the CD lid switch SW303 is turned on, the test mode is not set.

Button Operation in Test Mode

- When the STOP button is pressed, all operations stop. At this time the optical pickup does not slide, and TEST MODE 0 is displayed.
- While the SKIP button is pressed, the optical head moves from inside to outside or from the outside to the inside.
 - Operation is possible both during playing and stopping.
 - While this operation is executed, the TEST MODE indication does not change.

After the optical pickup is slid from the outside to the inside and the optical pickup switch is turned on, the slide stops. (At the same time TEST MODE 0 is set.)

3. IF the SKIP button is pressed in TEST MODE 4 or 5, TEST MODE 3 is set.

4. If the PAUSE button is pressed in TEST MODE 0, the direct play is set. Namely, TEST MODE 5 is set.

Notes

- Any buttons other than those specified above are invalid.
- Before operation be sure to connect all the connectors.

Servo Unit

Since the adjusting procedure differs from that described in "ADJUSTMENT PROCEDURES OF AUDIO PRODUCTS", refer to the Service Manual.

All the semivariable resistors must be set in the mechanical center position

Test Stage	Adjusting Parts	Value/Adjusting Method	Instrument Connection
Set TEST MODE 0, and move the pickup to the center			
Set Test MODE 1 (make sure that the laser lamp lights)			
After loading a disc, set to TEST MODE 2. (Check to see that focus servo is ON.: The disc does not rotate, and a whining sound is heard.)			
Set TEST MODE 3 (Spin servo is turned on, and the disc rotates)			
Tracking error balance adj.	NVR1	*1 (See Fig. 21-1)	Pin 6 (1/2Vcc) and pin 4 (TG1) of TP751
Set TEST MODE 4 (Tracking servos turned on.)			
Check the HF signal waveform	-	Amplitude of 1.5~2.0 Vp-p (See Fig. 21-2.)	Pin 3 (HF) and pin 7 (GND) of TP751
Focus gain adj.	VR751	Adjust to obtain the same waveform on CH1 and CH2. *2	Pin 1 (CH1) and pin 5 (CH2) of TP751 and ground (The relay circuit is used.)
Tracking gain adj.	VR750	Adjust to obtain the same waveform on CH1 and CH2. *3	Pin 4 (CH1) and pin 2 (CH2) of TP751 and ground (The relay circuit is used.)
Check again the HF signal waveform.			
Set TEST MODE 5, and make sure that track No. and time are displayed.			
Stick black tape on the disc, and play that section (Fig. 22-1). (Any mode other than the test mode is acceptable.)			
Focus offset adj.	VR700	*4 (Fig. 22-2)	Pin 6 (1/2Vcc) and pin 1 (FG1) of TP751
Tracking offset adj.	VR710	*6	Pin 6 (1/2Vcc) and pin 4 (TG1) of TP751

- *1 Adjust to obtain vertically symmetrical waveform (Fig. 21-1) with respect to reference DC level. The reference level is 1/2Vcc [Amplitude of 0.5 to 1.5 Vpp]
- *2 Input oscillation frequency: 1.3 kHz, 100 mV rms
- *3 Input oscillation frequency: 1.5 kHz, 300 mV rms
- *4 Watch the monitor. Adjust so that the error waveform is uniform and minimum (Fig. 22-2) and the audio output is played properly without noise (track jump noise) and free from skips and pauses.
- *5 The appropriate measuring range of the oscilloscope is 50mV and 0.5mS. Connect the trigger to pin 14 (HFOK) of CNP700. Trigger the coupling at DC and (-) slope. Observe the waveform in the normal trigger mode.
- *6 Watch the monitor. Adjust so that the error waveform is uniform and minimum (Fig. 22-2) and the audio output is played properly without noise (track jump noise).
- *7 The appropriate measuring range of the oscilloscope is 0.1V and 0.5mS. The trigger is the same as *5. (Reference) When the noise element of the error waveform is large and unclear, observe the waveform through the low-pass filter (Fig. 22-3).

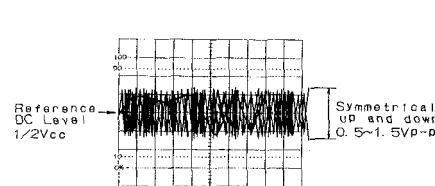


Figure 21-1

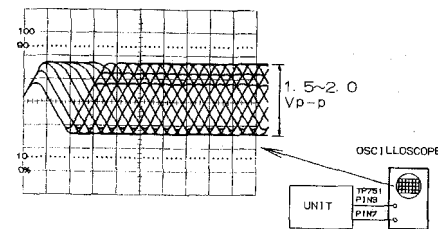
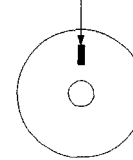


Figure 21-2

Stick black tape on the disc.
(1.2~1.5mm wide)



A disc other than the test disc can be used. Do not put the black tape on the initialized section (TOC).

Figure 22-1

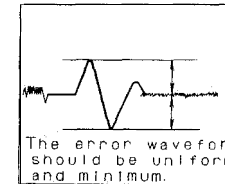


Figure 22-2

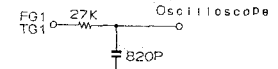
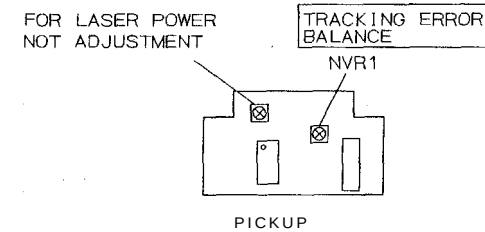


Figure 22-3



CD SERVO PWB-B

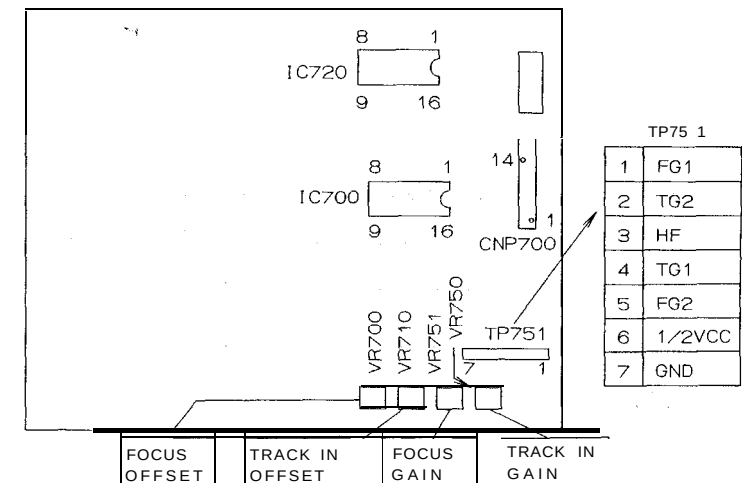
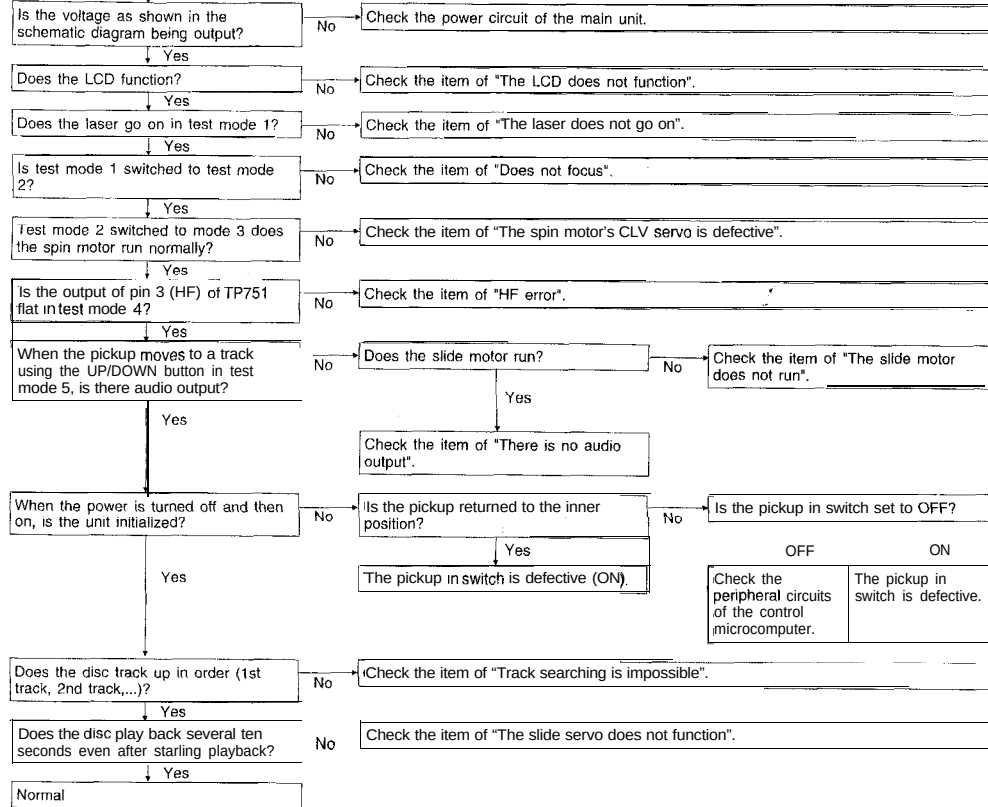


Figure 22-4 ADJUSTMENT POINTS

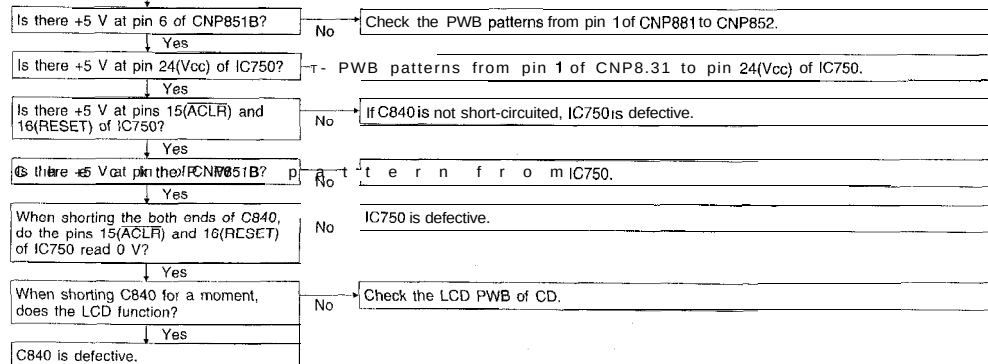
TROUBLESHOOTING (CD SECTION)

When the CD does not function

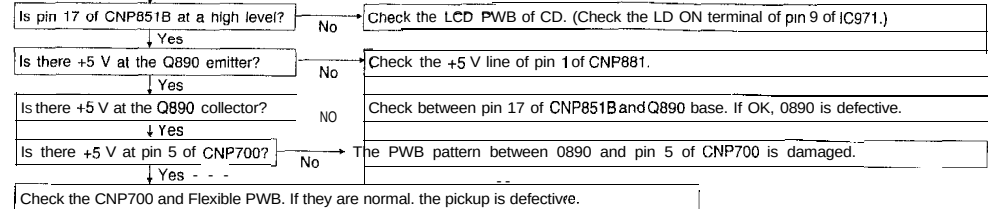
Set a disc, turn on the power, set the FUNCTION switch to CD, and check the voltage of CNP881.



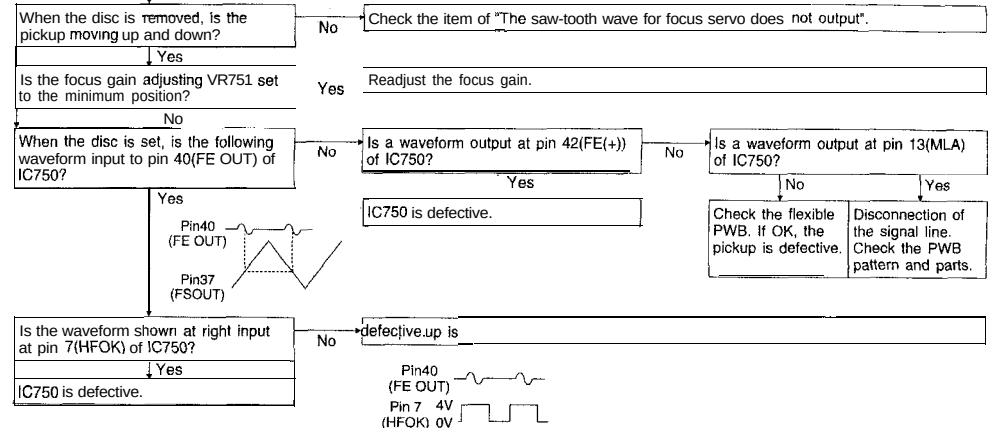
The LCD does not function.



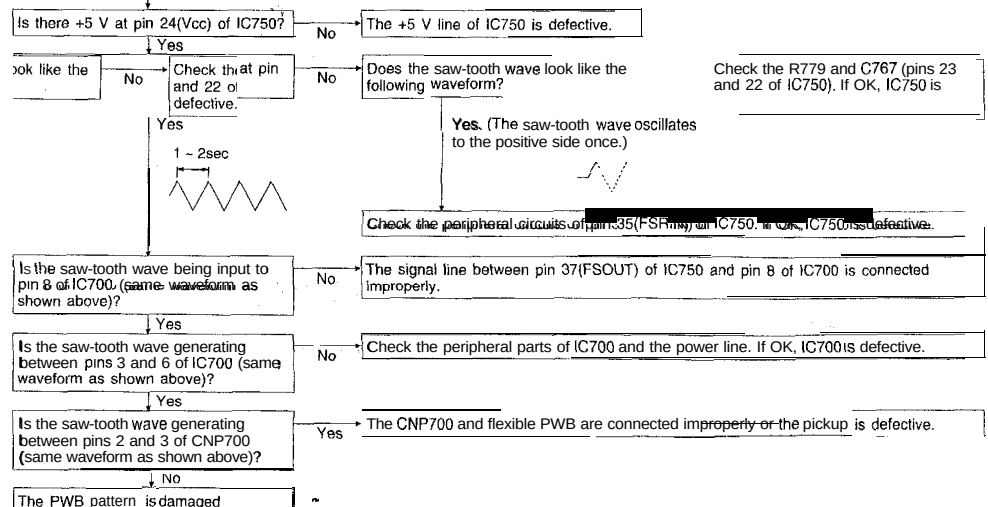
The laser does not go on.



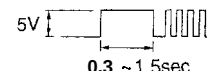
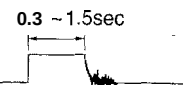
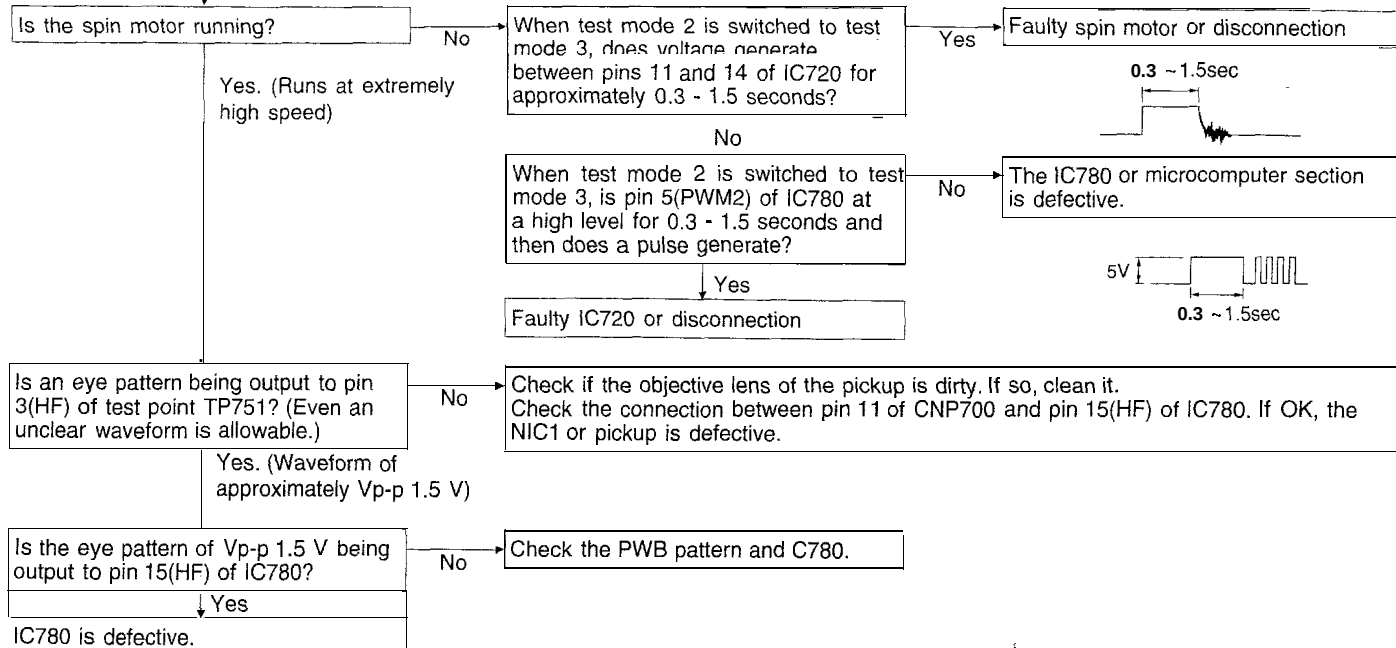
Does not focus.



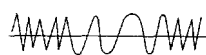
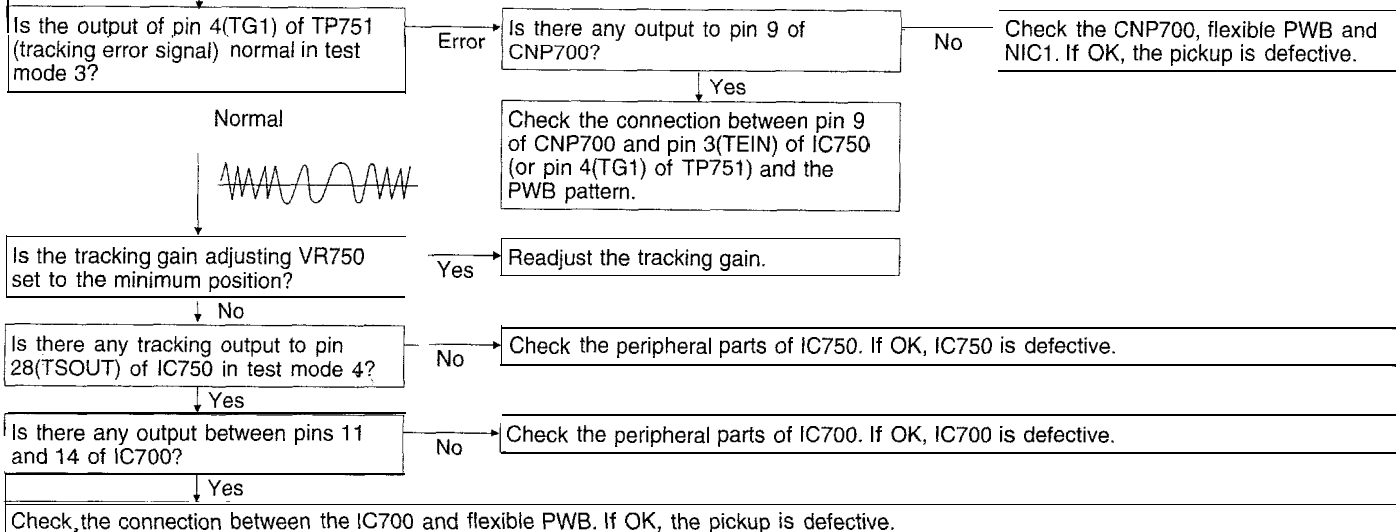
The saw-tooth wave for focus servo does not output.



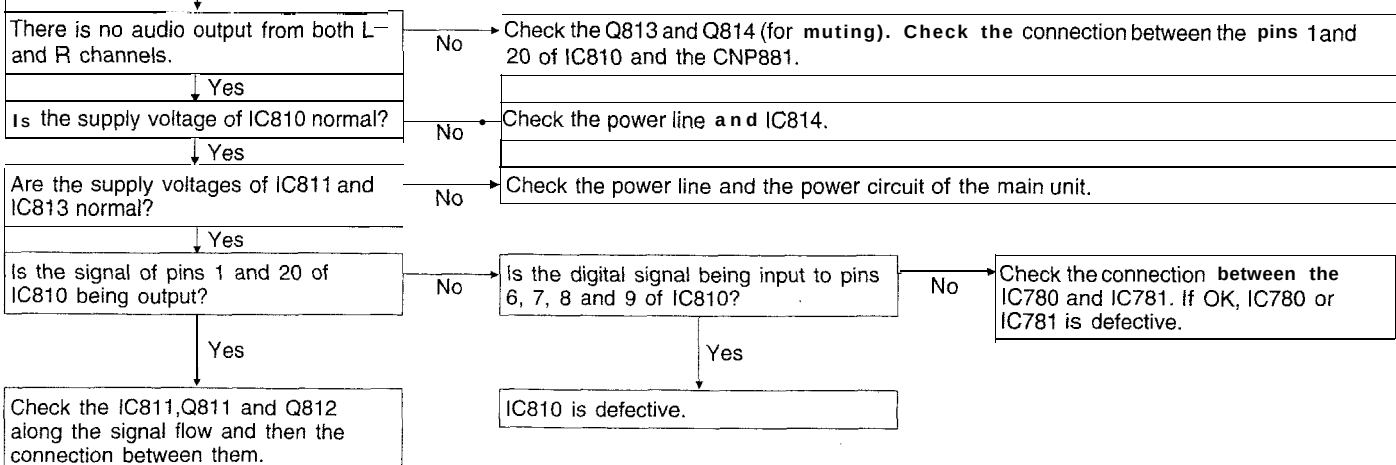
The spin motor's CLV servo is defective.



HF error

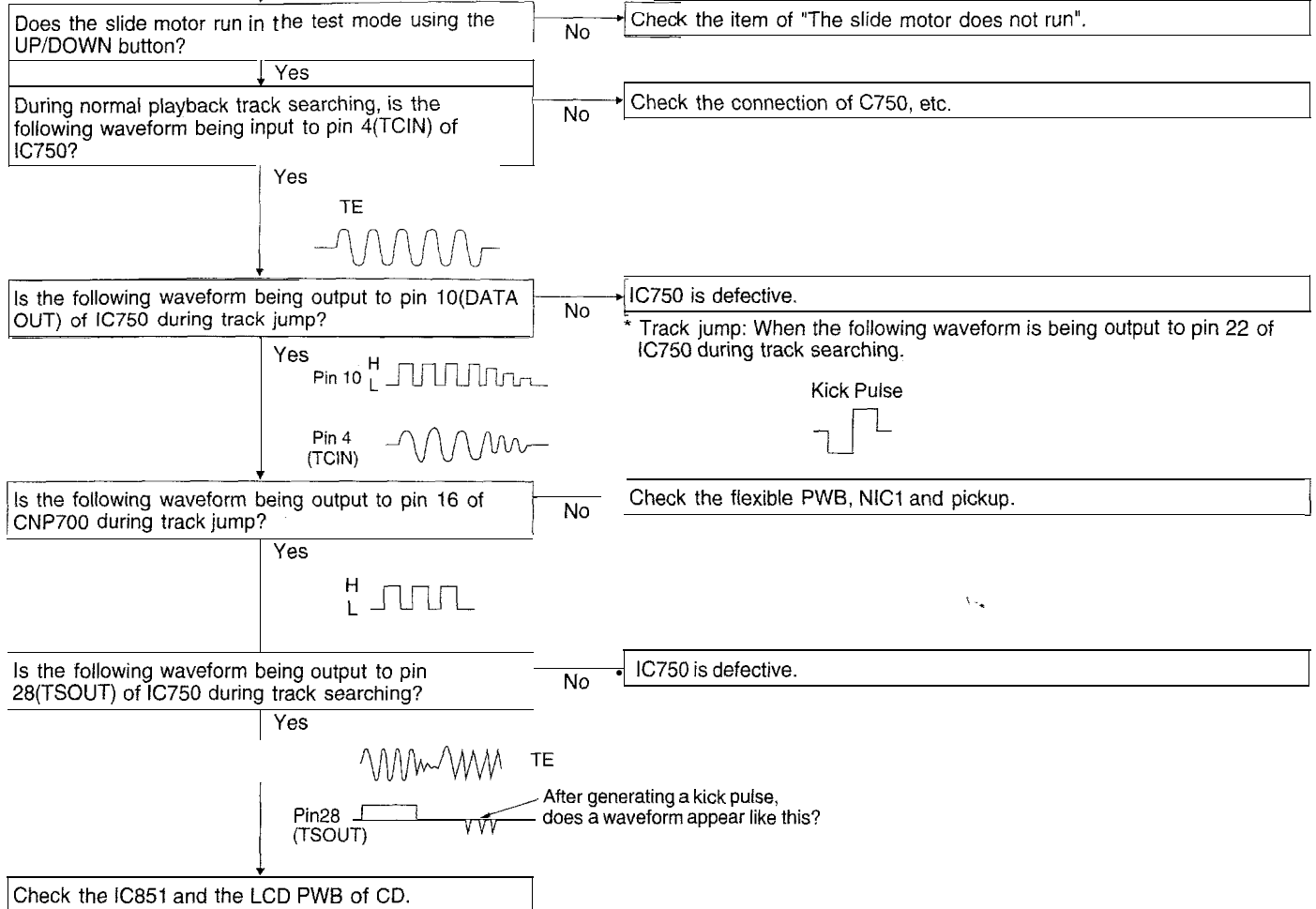


There is no audio output.

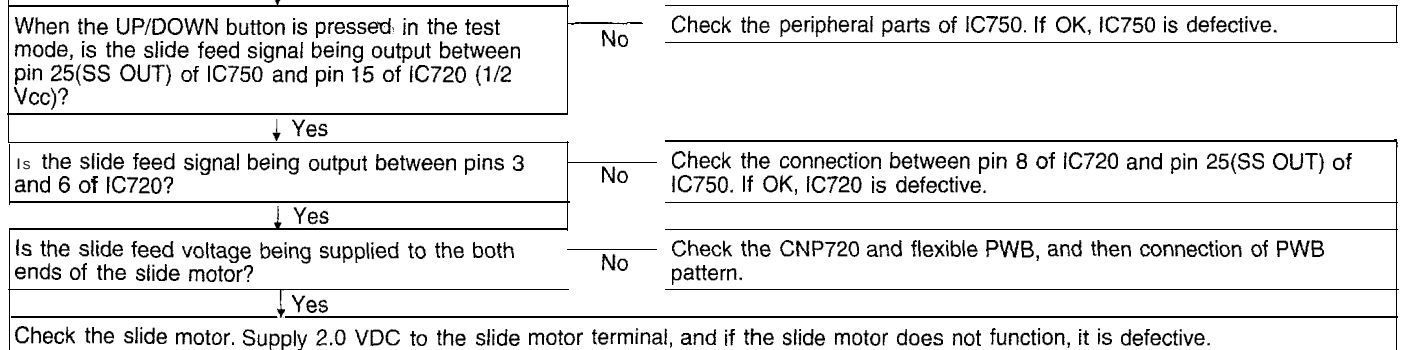


CD-JX20X

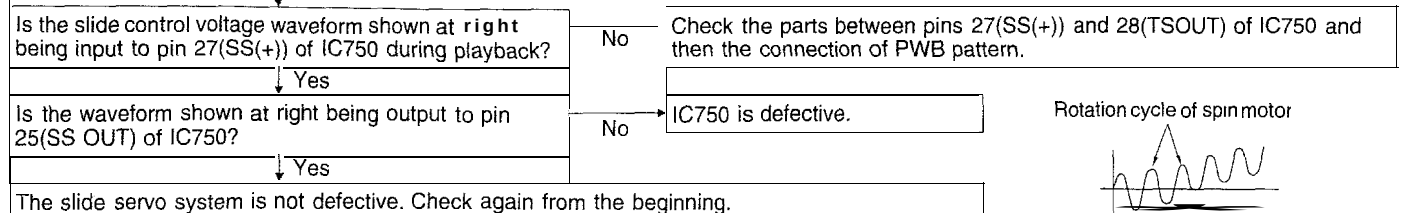
Track searching is impossible.



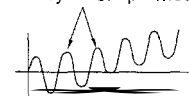
The slide motor does not run.



The slide servo does not function.



Rotation cycle of spin motor



Voltage differs according to disc eccentricity

FUNCTION TABLE OF IC

IC810 VHiLC9600AM-1 (LC9600AM)

Pin No.	Terminal Name	Input/Output	Function
1	CH1OUT	Output	CH1 output terminal
2	VrefH1	Input	Reference voltage "H" input terminal 1
3	VrefH2	Input	Reference voltage "H" input terminal 2
4	VDD	Input	Power voltage terminal +5 V
5*	WCLK2	Input	Word clock 2 input terminal When IF = "H" level is set
6	LRCK	Input	LR clock input terminal
7	WCLK1	Input	Word clock input terminal When IF = "H" level is set
8	DATA	Input	Digital audio data input terminal When IF = "H" level is set
9	BCLK	Input	Bit clock terminal PWMDAC clock and clock to read the digital audio data into LSI as bit serial data
10	VDD	Input	Power voltage terminal +5 V
11*	TSTOUT	Output	Test output terminal Ordinarily it is open.
12	TST1	Input	Test output terminal Ordinarily it is connected to GND.
13	TST2	Input	Test output terminal Ordinarily it is connected to GND.
14	IF	Input	Interface switching terminal MSB first: When digital audio data input format is at IF = "H" level LSB first: When digital audio data input format is at IF = "L" level
15	GND		GND terminal
16	VrefL1	Input	Reference voltage "L" input terminal 1
17	GND		GND terminal
18	VrefL2	Input	Reference voltage "L" input terminal 2
19	NC		
20	CH2OUT	Output	CH2 output terminal

- The terminal marked with * is open terminal not connected externally.

CD-JX20X

IC251 RH-iX1851AFZZ (IX1851AF)

Pin No.	Terminal Name	Input/Output	Signal	Function	Active H/L
1*	R50	Output	COUNT2	T2 counter UP/DOWN (H: UP, L: DOWN)	
2	R51	Input	APSS	APSS signal detection (APSS release signal)	-
3	R52	Input	RUN1	T1 rotation pulse detection	L
4	R53	Output	SOLA1	Solevoid A1 drive (H: ON, L: OFF)	H
5	R60	Output	SOLA2	Solenoid A2 drive (H: ON, L: OFF)	H
6	R61	Input	PLY1	T1 PLAY state detection (H: OFF, L: ON)	L
7	R62	Input	FR1	T1 FF/REW state detection (H: OFF, L: ON)	L
8	R63	Input	CST1	T1 cassette detection (H: Not found, L: Found)	L
9	R70	Input	RUN2	T2 rotation pulse detection	L
10	R71	Output	SOLB1	Solenoid B1 drive (H: ON, L: OFF)	H
11	R72	Output	SOLB2	Solenoid B2 drive (H: ON, L: OFF)	H
12	R73	Input	PLY2	T2 PLAY state detection (H: OFF, L: ON)	L
13	RA0	Input	FR2	T2 FF/REW state detection (H: OFF, L: ON)	L
14	RA1	Input	CST2	T2 cassette detection (H: Not found, L: Found)	L
15	RA2	Input	AFP	T2 A side foolproof detection (H: Not found, L: Found)	L
16	RA3	Input	BFP	T2 B side foolproof detection (H: Not found, L: Found)	L
17	P00	Output	MOT	Mechanism motor control (H: ON, L: OFF)	H
18	P01	Output	HSPD	Output in high-speed REC mode (H: High speed, L: Control speed)	H
19	P02	Output	T1/T2	Play back QT1/T2 switching (H: T1, L: T2)	-
20	P03	Output	PB MT	PLAY mode terminal (H: Mute ON, L: Mute OFF)	H
21*	P10	Output	H DUB IND	High-speed dubbing indicator (H: OFF (goes out), L: ON (lights))	L
22*	P11	Output	N DUB IND	Constant speed dubbing indicator (H: OFF (goes out), L: ON (lights))	L
23	P12	Output	T1 IND	T1 indicator (H: OFF (goes out), L: ON (lights))	L
24	P13	Output	T2 IND	T2 indicator (H: OFF (goes out), L: ON (lights))	L
25	TEST	Input	---	Test terminal, Open or GND	
26	VSS	-	GND	Earth	L
27*	VDD	Input	VDD	Power supply	
28*	P20	Output	PAUSE IND	PAUSE indicator (H: OFF (goes out), ON (lights))	L
29	P21	Output	REC IND	REC indicator (H: OFF (goes out), ON (lights))	L
30	P22	Output	FW IND	FWD indicator (H: OFF (goes out), ON (lights))	L
31	P23	Output	RV IND	REV indicator (H: OFF (goes out), ON (lights))	L
32*	P30	Output	PW MT	Power mute terminal (H: Mute ON, L: Mute OFF)	H
33	P31	Output	REV SIG	"H" is outputted when the mechanism is in Reverse state (incl. Reverse Pause).	H
34*	P32	Output	REC MT	REC mute terminal (H: Mute ON, L: Mute OFF)	H
35	P33	Output	PLY SW	PLAY switch state output ("H" is outputted if T1 PLAY or T2 PLAY switch is ON.)	H
36*	RB0	Output		Key matrix output	
37	RB1	Output		Key matrix output	
38	RB2	Output		Key matrix output	
39	RB3	Output		Key matrix output	
40	K00	Input		Key matrix input	

* Terminal marked with * is terminal not connected externally (open).

Pin No.	Terminal Name	Input/Output	Signal	Function	Active
41	K01	Input		Key matrix input	
42	K02	Input		Key matrix input	
43	K03	Input		Key matrix input	
44	RESET	Input	RESET	Reset signal input	
45	NC	-			
46	XIN	Input	-	Oscillator connection terminal	-
47	XOUT	Output	-	Oscillator connection terminal	-
48	NC	-	-	-	-
49	HOLD	Input	HOLD	Hold operation request/cancel signal	-
50	R80	Input	PW IN	"L": when power supply is ON "H": when power supply is OFF	L
51	R81	Input	TM IN	"L": when timer is ON (When power is ON: H - Ordinary, L - Timer operation)	L
52	R82	Input	CD HSP	CD high-speed detection (H: High speed, L: Constant speed)	H
53	R83	Output	EX PLY	External PLAY output (H: Ordinary, L: External PLAY)	L
54	R90	Output	SY RDY	For synchronization "L" is outputted in REC (standby) mode.	L
55	R91	Input	SY ON	Synchronizing signal detection (H: REC run, L: REC standby)	H
56	R92	Input/Output	CK	Remote control request signal	
57	RC0	Input	RDY	READY signal from remote control decoder	L
58	RC1	Input	DATA	Remote control serial data	
59*	RC2	-		Not used	
60	RC3	Input	TM REC	Timer REC switch detection (H: OFF, L: ON)	L
61	VDD	Input	VDD	Power	
62 • 1	RD0	Input	RV MOD2	Reverse switch input	L
63 *1	RD1	Input	RV MOD1	Reverse switch input	L
64	R40	Input	TAPE FN	TAPE position detection (H: Tape, L: Radio/Line/CD)	H
65	R41	Input	CD FN	CD state detection ("H": When CD position is set and switch is ON)	H
66	R42	Input	SY INH	Sync. prohibition signal detection (H: Ordinary, L: prohibition)	H
67*	R43	Output	COUNT1	T1 counter UP/DOWN (H: UP, L: DOWN)	

* Terminal marked with * is terminal not connected externally (open).

*1-

Input Mode	RV MOD 2	RV MOD1
≡	1	0
▷	0	1
⊖	1	1

CD-JX20X

IC851 RH-iX1809AFZZ (M50932)

Pin No.	Terminal Name	Input/ Output	Signal Name	Function
1 to 9	SEG8 to SEG0	Output	SEG8to SGE0	LCD segment signal output
10 to 13	COM0to COM3	Output	COM0to COM3	LCD back plate signal output
14 to16	VL1to VL3	Input	VL1to VL3	LCD power supply
17	VCC	-	VCC	Power supply
18	CNTR	Input	DATA OUT	Focus OK or TC (track count) signal input A. Focus check Focus OK: "H" Focus NG: "L" B. TC count pulse
19	P37	Output	MUTE	Control of audio signal mute Mute OFF (PLAY or Manual Search mode): "H" Mute ON (not in PLAY or Manual Search mode): "L"
20	P36	Input	EFFK	Synchronizing clock (7.35 kHz) for sub-code Q data
21*	P35	Output	SOUT	Servo control
22	P34	Input	SBCQ	Sub-code Q data input
23	P33	Input	DRD	Disc rotation linear speed reduction signal (brake control) "L": Ordinary "H": When speed reduces from specific linear speed by 35.3%
24	P32	Input	SCOR	Frame sync. of sub-code Q data (75 Hz)
25	P31	Input	Xcin	Clock signal input (32 kHz)
26	P30	Output	Xcout	Clock signal output (32 kHz)
27	INT1	Input	PU-IN	Switch input to detect position of optical pickup "L": When the pickup exists on the innermost periphery of disc. "H": When the pickup does not exist on the innermost periphery of disc
28	CNVSS	-	CNVSS	Connected to earth
29	RESET	Input	RESET	Reset input
30	Xin	Input	Xin	Clock signal input (4 MHz)
31*	Xout	Output	Xout	Clock signal output (3 MHz)
32	VSS	-	VSS	Earth
33	P27	Output	MLA	Serial data latch signal (fall)
34	P26	Output	MCK	Serial data period clock (rise)
35	P25	Output	MSD	Serial data First
36	P24	Output	JP1	Jump pulse direct control "H": Ordinary "L": Jump pulse direct inversion
37*	P23	Output	KSO3	Key scan output (scan board "L")
38*	P22	Output	KSO2	Key scan output (scan board "L")
39	P21	Output	KSO1	Key scan output (scan board "L")
40	P20	Output	KSO0	Key scan output (scan board "L")
41*	P17	Input	KSi0	Key scan input ("L": Key input)
42*	P16	Input	KSi1	Key scan input ("L": Key input)
43	P15	Input	KSi2	Key scan input ("L": Key input)
44	P14	Input	KSi3	Key scan input ("L": Key input)
45	P13	Input	KSi4	Key scan input ("L": Key input)
46	P12	Input	KSi5	Key scan input ("L": Key input)
47	P11	Output	LD-ON	Optical pickup laser diode control "H": LD ON "L": LD OFF
48*	P10	Output	ON OUT	Power control "H": POWER ON, TIMER ON, SLEEP ON
49*	P07	Output	TIMER OUT	Power control "H": TIMER ON

* Terminal marked with * is terminal not connected externally (open).

Pin No	Terminal Name	Input/ Output	Signal Name	Function
50	P06	Input	TIMER SET	Timer set/reset Input to judge POWER-ON by timer "H": Ordinary operation "L": Timer operation
51	P05	Output	SYC OUT	The cassette mechanism is controlled by CD operation "H" output: When [SYCIN] is "H" When [SYCIN]: "L": "H" output: During play "L" output: Excepting during play
52	P04	Input	SYN IN	The cassette mechanism is controlled by CD operation. "L": When cassette mechanism is in REC mode "H": When cassette mechanism is not in REC mode
53	P03	Input	REVERSE	Detection of reversing of cassette mechanism in dubbing mode "L": Ordinary (A side) "H": Reverse (B side)
54*	P02	Output	ARLS SET	APLC control signal "H": APLC key ON
55*	P01	Output	ARLS OUT	Signal to control the main body in APLC mode
56	P00	Output	CKI	Receiving sync. clock (data request)
57	P47	Input	RDY	Remote control READY signal
58	P46	Input	SDO	Remote control receiving data input
59	P45	Input	SYCLK	Frame sync. signal error check * "H": When sync. signal is inputted correctly "L": When sync. signal is not inputted correctly.
60	P44	Input	SRCF	Q data CRC check flag "H": When data is correct "L": When data is not correct
61	P43	Input	ARLS RDY	Fixed to "L"
62*	P42	Input	CD	Fixed to "H"
63	P41	Input	POWER IN	Fixed to "L"
64	P40	Input	SEL	Fixed to "H"
65*	SEG23	Output	SEG23nt	signal output
66*	SEG22	Output	SEG22	Segment signal output
67 to 70	SEG21 to SEG18	Output	SEG21 to SEG18	Segment signal output
71*	SEG17	Output	SEG17	Segment signal output
72	SEG16	Output	SEG16	Segment signal output
73	VSS	-	VSS	Earth
74, 75	SEG15, 14	Output	SEG15, 14	Segment signal output
76*	SEG13	Output	SEG13	Segment signal output
77*	SEG12	Output	SEG12	Segment signal output
78, 79	SEG11, 10	Output	SEG11, 10	Segment signal output
80*	SEG9	Output	SEG9	Segment signal output

*The terminal marked with * is open terminal not connected externally.

IC780 VHIM50423P/-1 (M50423P)

Pin No.	Terminal Name	Input/Output	Function
1	EMP	Output	Emphasis code output Emphasis provided = "1"
2	PWM1	Output	Disc motor drive PWM output 1: "-"
3	PWM2	Output	Disc motor drive PWM output 2: "+"
4*	DOTX	Output	Digital OUT
5	ACRCY	Input	Digital OUT channel status clock accuracy input
6	TEST1	Input	Test mode selection input Ordinary playback = "0"
7	DOBSEL	Input	Selection of number of output data bits 18 bits = "1"
8	DASEL1	Input	DAC interface selection input 1
9	DASEL2	Input	DAC interface selection input 2
10	DASEL3	Input	DAC interface selection input 3
11	DASEL4	Input	DAC interface selection input 4
12	MSD	Input	Microcomputer interface serial data input
13	MCK	Input	Microcomputer interface clock input
14	MLA	Input	Microcomputer interface data latch clock input
15	ACLR	Input	Microcomputer interface register clear input
16	HFD	Input	Playback signal lack signal input
17	HF	Input	Playback signal input
18	IREF	Input	Detection/PLL circuit reference current input
19	TLC	Output	Slice level control output
20	LPF	Input/Output	PLL loop filter connection terminal
21	LOCK/DRD	Output	Sync. state/Low disc rotation state output
22	SYCLK	Output	Frame sync. state output Sync. = "1"
23	VDD2	Input	Detection/PLL circuit Analog section exclusive-use power supply 5 V
24*	DRD	Output	Low disc rotation state output
25	EFFK	Output	EFM frame clock output Duty 50%
26*	CINT	Output	Subcode Q output interruption signal output
27*	SQRO	Output	Subcode Q register output
28*	SQRCK	Input	Subcode Q register data shift clock input
29	SCOR	Output	Subcode sync. signal output S0 + S1
30	CRCF	Output	Subcode Q Output of CRC check result output CRCOK = "1"
31	SCCK	Input	Shift clock input for subcode serial output
32	VSS2		GND 0 V
33	COE2	Input	SBCP to SBCS output enable input
34	SCOE1	Input	SBCT to SBCW output enable input
35*	SBCW	Output	Subcode Wch output
36*	SBCV	Output	Subcode Vch output
37*	SBCU	Output	Subcode Uch output
38*	SBCT	Output	Subcode Tch output
39*	SBCS	Output	Subcode Sch output
40*	SBCR	Output	Subcode Rch output
41	SBCQ	Output	Subcode Qch output
42*	SBCP	Output	Subcode Pch output

* The terminal marked with * is open terminal not connected externally.

CD-JX20X

CD-JX20X

Pin No.	Terminal Name	Input/Output	Function
43	RAS	Output	Row address strobe signal output
44	NC	-	-
45	RDB2	Input/Output	External memory data input/output 2
46	NC	-	-
47	RDB1	Input/Output	External memory data input/output 1
48	RDB4	Input/Output	External memory data input/output 4
49	CAS	Output	Column address strobe signal output
50	RDB3	Input/Output	External memory data input/output 3
51	WE	Output	Write enable signal output
52	NC	-	-
53	RAD1	Output	External memory address output 1
54	RAD2	Output	External memory address output 2
55	RED3	Output	External memory address output 3
56	RED7	Output	External memory address output 7
57	RED4	Output	External memory address output 4
58	RAD5	Output	External memory address output 5
59	RAD6	Output	External memory address output 6
60	RAD0	output	External memory address output 0
61	EST2	Output	Error state output 2 C2 decoder correction disabled = "1"
62*	EST1	output	Error state output 1 C1 decoder error detection = "1"
63	VDD1	Input	Power supply +5 v
64*	DOFK	output	OSC frame clock output 7.35 kHz Duty = 50 %
65*	F5CK	Output	Clock output 44.1 kHz
66*	C846	Output	Clock output 8.4672 MHz
67	C423	Output	Clock output 4 2336 MHz
68*	C16M1	Input	1/2-frequency-divider input Feedback resistor provided
69	C8MO	output	1/2-frequency-divider output
70	XI	Input	Crystal oscillator input Feedback resistor provided
71	XO	output	Crystal oscillator output
72	DO1	Output	DAC. Serial data output
73	VSS1	-	DAC. 0 V
74	D5CK	Output	DAC. Data shift clock output
75	LACK	output	DAC. Left/right clock output
76*	DO2	Output	DUAL DAC. Serial data output Rch
77	WDCK	output	DAC. Word clock
76*	DLRCK	output	DAC. Left/right clock output 2
79*	APTL	Output	Degitch clock L
80*	APTR	output	Degitch clock R

*The terminal marked with * is open terminal not connected externally.

IC636 RH-IX1836AFZZ (PD1715G-635-22)

Pin No.	Terminal Name	Input/Output	Function
1	LCD10	Output	LCD segment signal output
2	LCD9	Output	LCD segment signal output
3	LCD8	Output	LCD segment signal output
4*	LCD7	Output	LCD segment signal output
5	LCD6	Output	LCD segment signal output
6	LCD5	Output	LCD segment signal output
7	LCD4	Output	LCD segment signal output
8	LCD3	Output	LCD segment signal output
9	LCD3	Output	LCD segment signal output
10	LCD1	Output	LCD segment signal output
11	COM1	Output	LCD common signal output
12	COM2	Output	LCD common signal output
13	COM3	Output	LCD common signal output
14	VSS3	-	Coupler capacitor connection terminal
15	CAP2	-	Coupler capacitor connection terminal
16	CAP1	-	Coupler capacitor connection terminal
17	VSS2	-	Coupler capacitor connection terminal
18	TRMOUT	Output	Timer control output. After timer is turned on.
19	PWRCNT	Output	Power control output. H/L change occurs when the POWER key is pressed while PWRRIN (pin 31) is "H". When PWRRIN is switched from L to H.
20	VDD	-	Power terminal
21	M	Input	Setting of frequency division ratio H: 1/4 frequency division L: 1/2 frequency division
22	FM	Input	FM VCO input. Local oscillation output of FM (TV) band is inputted.
23	AM	Input	AM VCO input. Local oscillation output of AM band is inputted.
24	VSS1	Earth	-
25, 26	EO1, EO3	Output	Error output H: When divided local oscillation frequency (VCO output) is higher than the reference frequency L: When divided local oscillation frequency is lower than the reference frequency
27	CE	Input	Chip enable (selection signal input terminal) Radio ON: When H is inputted L or H less than 140 s is not accepted.
28, 29	XO, XI	Input	Crystal oscillator connection terminal
30	SD	Input	Local detection signal input. When L is input during auto-tuning.
31	PWRRIN	Input	Timer/Sleep control input. When L is Switched to H, H is outputted from PWRCNT (pin 19). While this terminal is H.

Pin No.	Terminal Name	Input/Output	Function
32>(*1)	B1	Output	Band selection signal
33(*1)	B2	Output	Band selection signal
34(*1)	TVPWR	Output	Band selection signal
35*	TMRST	Output	Timer control output. L: When VDD is turned on. H is outputted while PWRRIN (pin 31) is H and the timer is in stand-by state. When PWRRIN is switched from H to L.
36	TMRSLP	Output	Timer/Sleep control output. L: When VDD is turned on. H is outputted while PWRRIN (pin 31) is H and the timer or Sleep is set to ON. When the timer is turned on.
37	MUTE	Output	Mute signal output. Clears PLL unlocking shock noise and shock noise caused by change of control terminal state. (Active H)
38	KS3	Output	Key source signal output
39	KS2	Output	Key source signal output
40	KS1	Output	Key source signal output
41	NC	-	-
42	KS0	Output	Key source signal output
43	K3	Input	Key return signal input
44	K2	Input	Key return signal input
45	K1	Input	Key return signal input
46*	VDD	-	Power terminal
47	K0	Input	Key return signal input
48	LCD16	Output	LCD segment signal output
49	LCD15/KS5	Output	LCD segment/key source signal output
50	LCD14/KS6	Output	LCD segment/key source signal output
51	LCD13/KS7	Output	LCD segment/key source signal output
52, 53	LCD12, 11	Output	LCD segment signal output
54	NC	-	-

(*1)

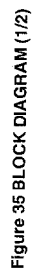
Band	B2	B1	TVPWR
AM	0	0	0
FM	1	0	0
VHFL	1	0	1
VHFH	0	1	1
UHF	1	1	1

* The terminal marked with * is open terminal not connected externally.

IC301VHiBA3928/-1 (BA3928)

Table of +B Switching Operations

	State of pin 8 of IC301		
	HIGH (CD)	MIDDLE (TUN)	LOW (TAPE/AUX)
Pin 7: CD output power	8.5 V	0 V	0 V
Pin 6: CD output power	5 V	0 V	0 V
Pin 4: TUN output power	6.5 V	6.5 V	0 V
Pin 5: Microcomputer output power	5 V	5 V	5 V



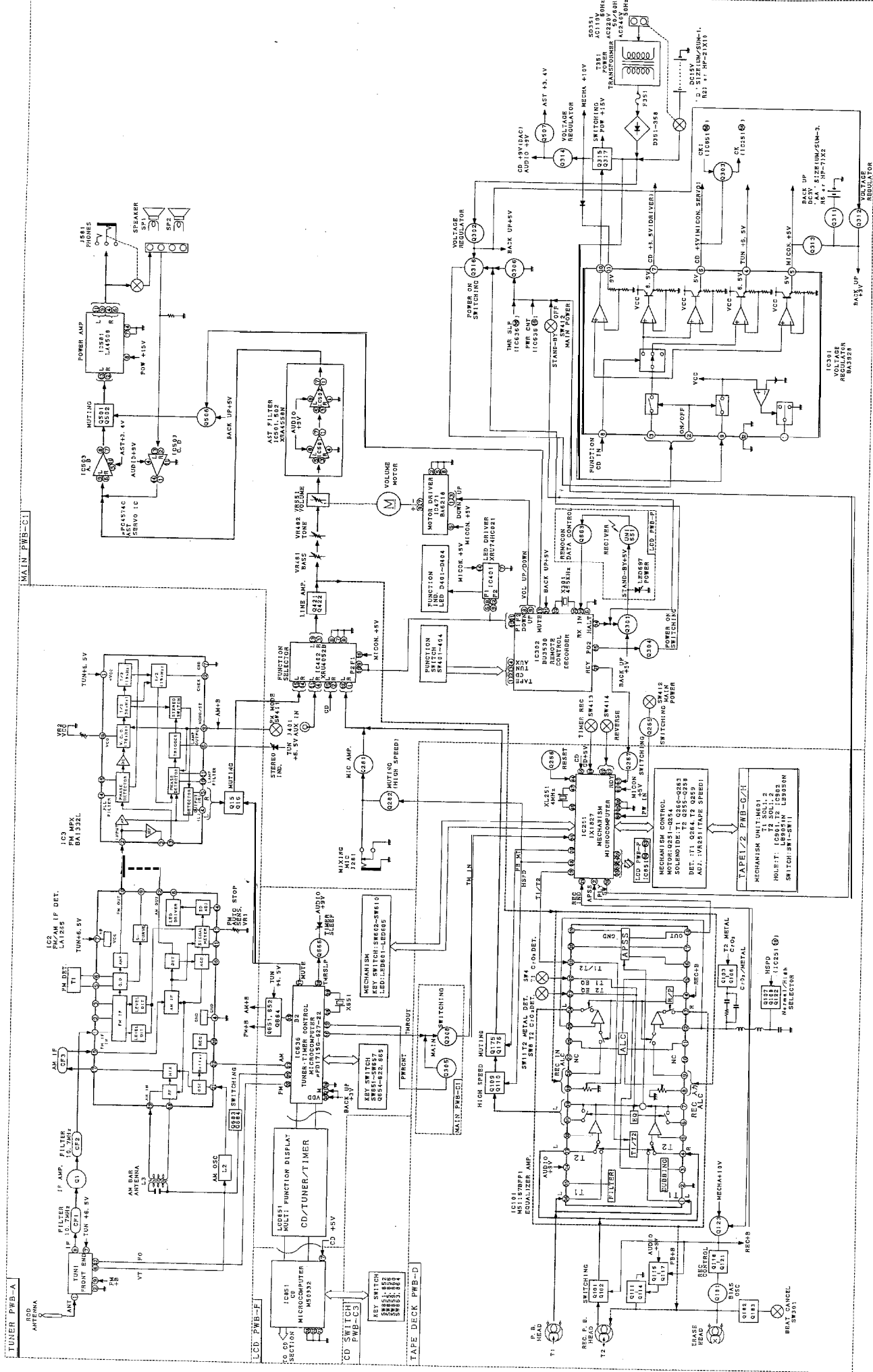


Figure 37 BLOCK DIAGRAM (2/2)

LCD SEGMENT

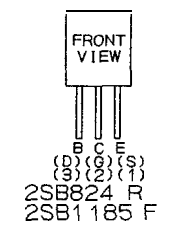
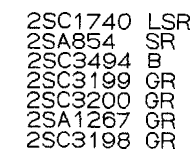
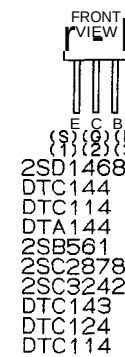
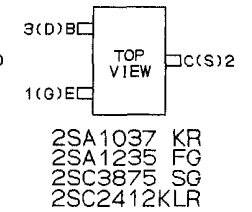
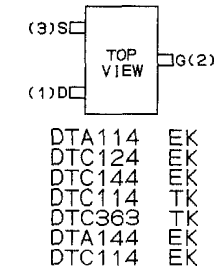
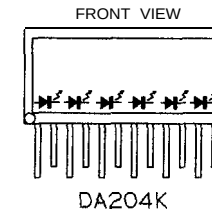
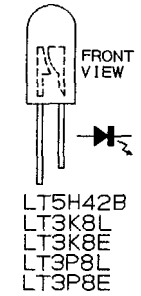
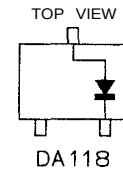
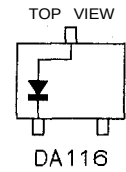
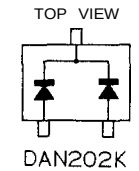
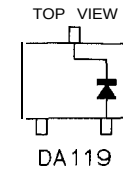
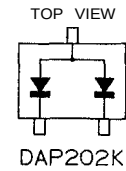
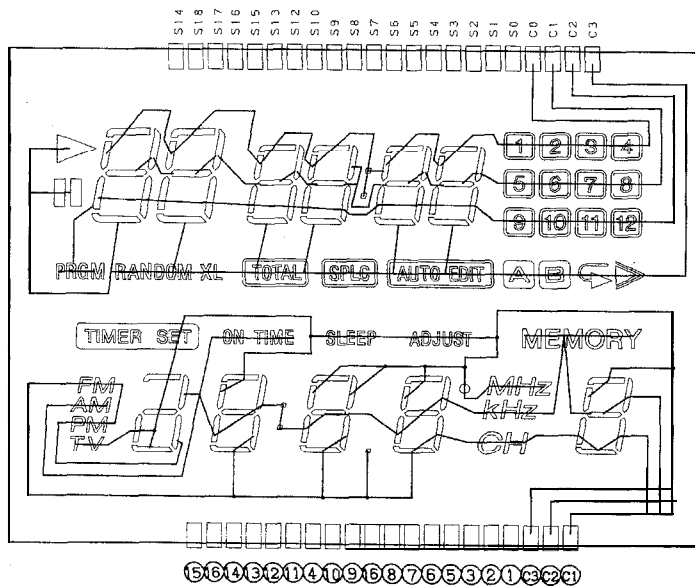
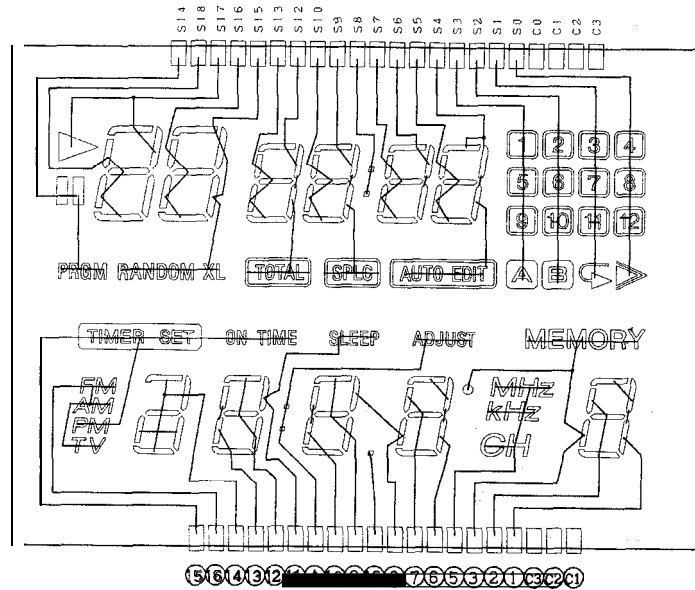


Figure 40 TYPES OF TRANSISTOR AND LED

NOTES ON SCHEMATIC DIAGRAM

• Resistor:

To differentiate the units of resistors, such symbol as K and M are used: the symbol K means 1000 ohm and the symbol M means 1000 kohm and the resistor without any symbol is ohm-type resistor. Besides, the one with "Fusible" is a fuse type.

• capacitor:

To indicate the unit of capacitor, a symbol P is used: this symbol P means micro-micro-farad and the unit of the capacitor without such a symbol is microfarad. As to electrolytic capacitor, the expression "capacitance/withstand voltage" is used.

(CH), (TH), (RH), (UJ): Temperature compensation

(ML): Mylar type

(P.P.): Polypropylene type

- 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. Tuner

(): AM mode

Marking except for (): FM mode

2. CD

(): Play mode

Marking except for (): Stop state

3. Audio

(): Record mode

Marking except far (): play mode

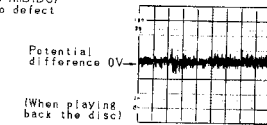
- chematic diagram and Wiring Side of P.W.Board for this model are subject to change for improvement without prior notice.

- 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	TAPE 1 PLAY	OFF
SW2	TAPE 1 FR	OFF
SW3	TAPE 1 CASSETTE DETECTION	OFF
SW4	TAPE 1 CrO2 DETECTION	OFF
SW5	TAPE 2 PLAY	OFF
SW6	TAPE 2 FR	OFF
SW7	TAPE 2 CASSETTE DETECTION	OFF
SW8	TAPE 2 CrO2 DETECTION	OFF
SW9	SIDE A F.P.	OFF
SW10	SIDE B F.P.	OFF
SW11	METAL DETECTION	OFF
SW301	SEAT CANCEL	A
SW401	AUX	OFF
SW402	TUNER	OFF
SW403	CD	OFF
SW404	TAPE	OFF
SW411	FM MODE	MONO
SW412	MAIN POWER	ON/TIMER SLEEP
SW413	TIMER REC	OFF
SW414	REVERSE MODE	()
SW481	CD LID	OFF
SW602	◀ PLAY	OFF
SW603	STOP	OFF
SW604	▶ PLAY	OFF

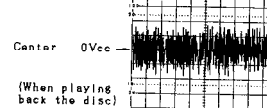
REF. NO	DESCRIPTION	POSITION
SW605	FAST ▶▶	OFF
SW606	FAST ◀◀	OFF
SW607	NORMAL SPEED	OFF
SW608	TAPE 1.2	OFF
SW609	REC PAUSE	OFF
SW610	HIGH SPEED	OFF
SW651	MEMORY	OFF
SW652	DISPLAY	OFF
SW653	TUNING . MINUTE	OFF
SW654	TUNING A, HOUR	OFF
SW655	FM STEREO	OFF
SW656	TIMER SLEEP	O F F
SW657	BAND	OFF
SW658	AUTO MEMORY	OFF
SW702	PICKUP IN	OFF
SW651	PAUSE	OFF
SW652	PLAY/REPEAT	OFF
SW855	AUTO EDIT	OFF
SW856	STOP	OFF
SW859	TAPE LENGTH	OFF
SW860	SKIP ▶▶	OFF
SW863	RANDOM XL	OFF
SW864	SKIP ◀◀	OFF

Waveforms of CD circuit

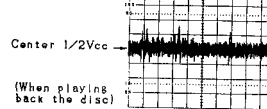
① 2V/1mS(DC)
XNo defectXDefect to disc
(ditto)

If defect exists, pulse-like noise as shown above appears.
(Similar noise is found also in ② output and TE, FE signals.)

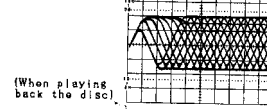
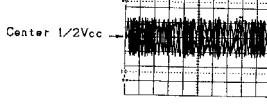
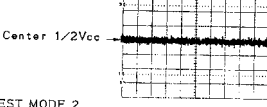
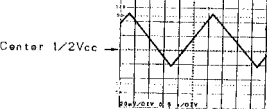
② 0.2mV/0.2mS(DC)



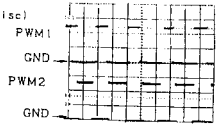
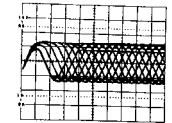
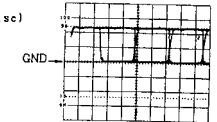
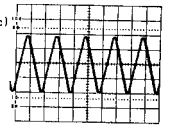
③ 20mV/2mS(DC)



④ 0.5V/0.5μS(AC)

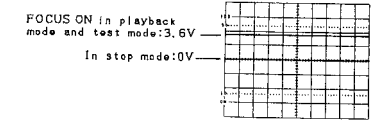
⑤ In TEST MODE 3
0.5V/1mS(DC)In playback mode
0.5V/1mS(DC)⑥ In TEST MODE 2
(The lens is moved up and down.)
200mV/0.5S(DC)

*The storage oscilloscope was used for measurement. (On the ordinary oscilloscope the bright point appears as triangular wave as shown above.)

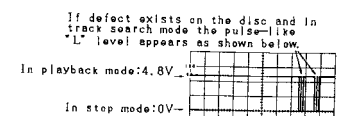
⑦ Spin motor PWM output
(When playing back the disc)
0.2V/10μS(DC)
Use 10:1 probe to connect PWM1⑧ 50mV/0.5μS(AC)
Use 10:1 probe to connect⑨ 2V/0.1μS(DC)
(When playing back the disc)⑩ 1kHz 0dB
(When playing back the test disc)
1V/0.5mS(AC)

100.5M HAKE1)CD_DC_B_M1

⑪ 2Vdiv(DC)



⑫ 2Vdiv(DC)



If the disc rotates and the H/F signal is tuned with the internal signal of IC, "H" level appears.

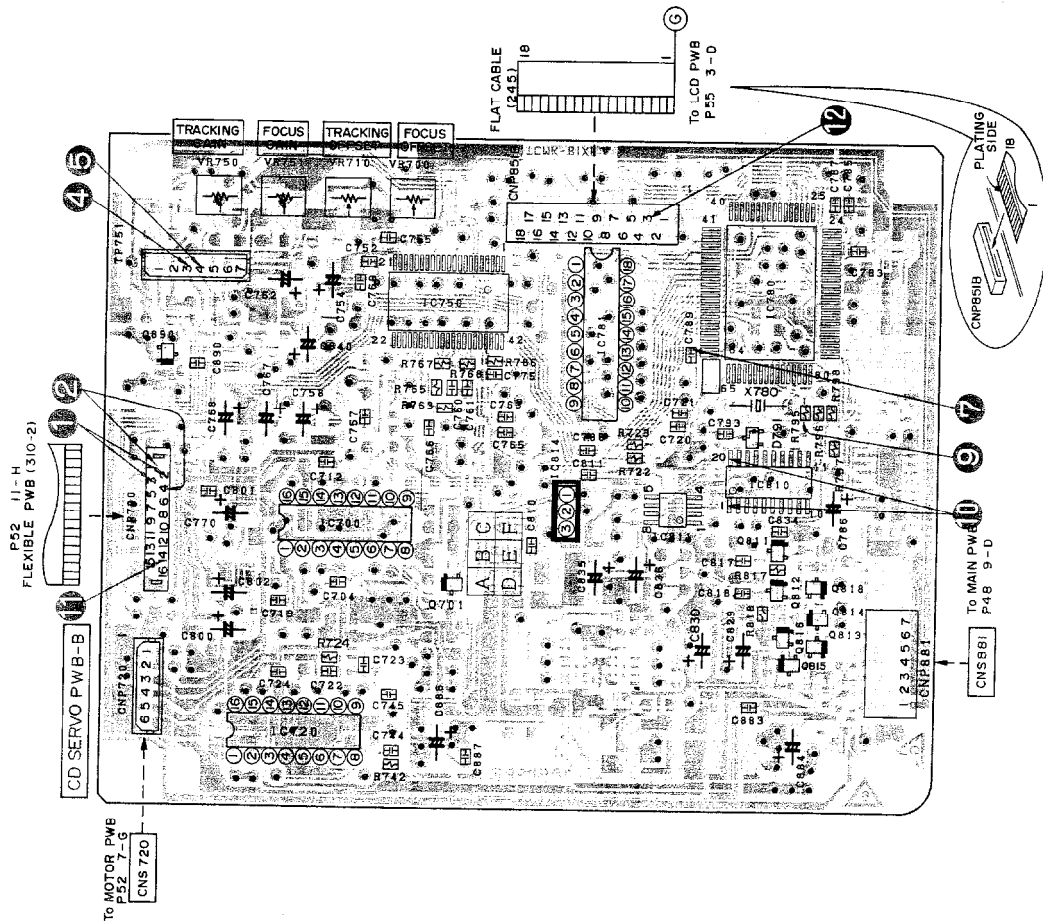
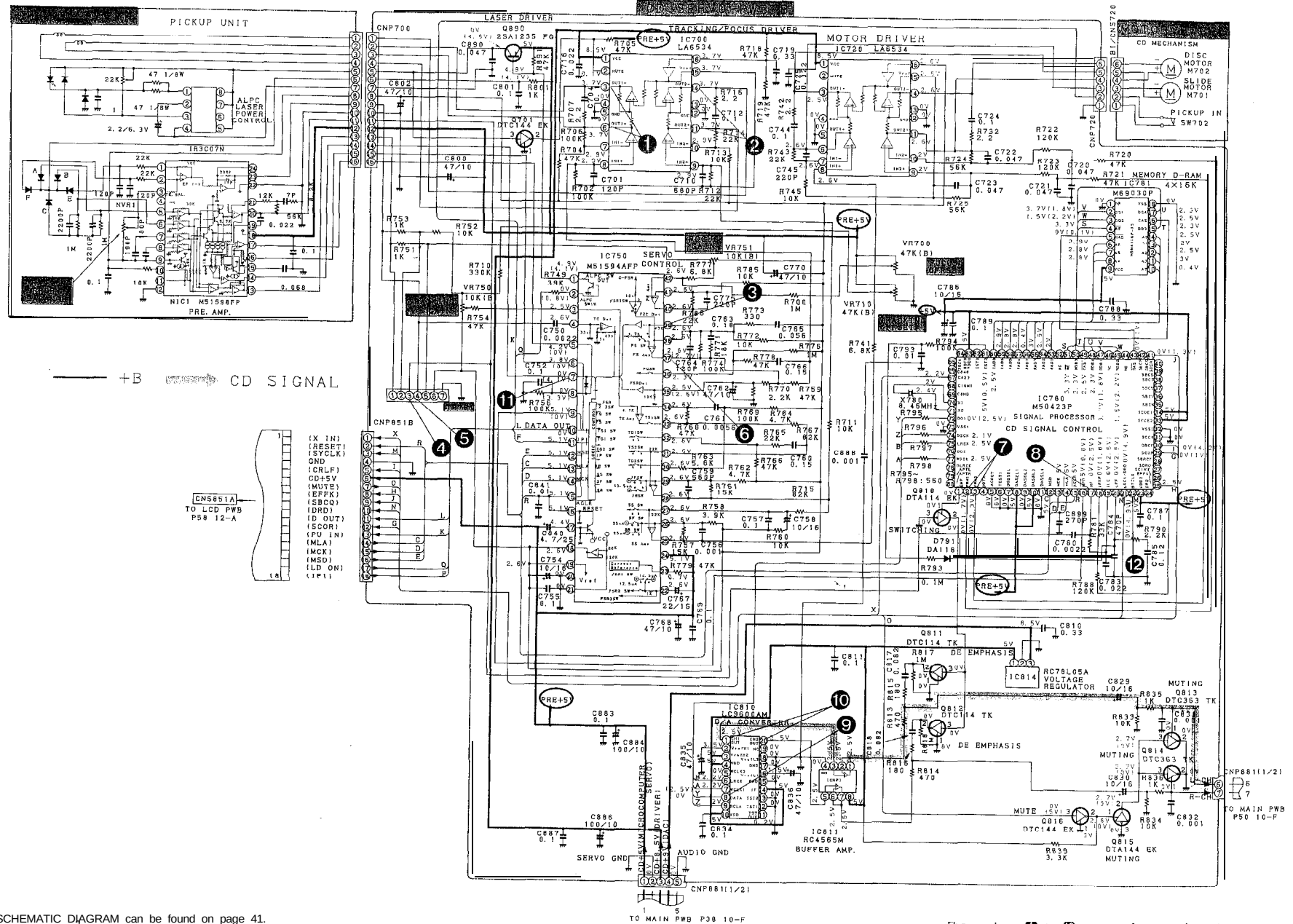


Figure 43 WIRING SIDE OF PWB BOARD (1/1)



SCHEMATIC DIAGRAM can be found on page 41.

Figure 45 SCHEMATIC DIAGRAM (1/5)

•The numbers 1 to 12 are waveform numbers shown in page 42.

CD-JX20X

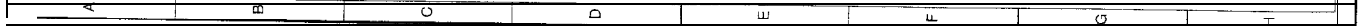


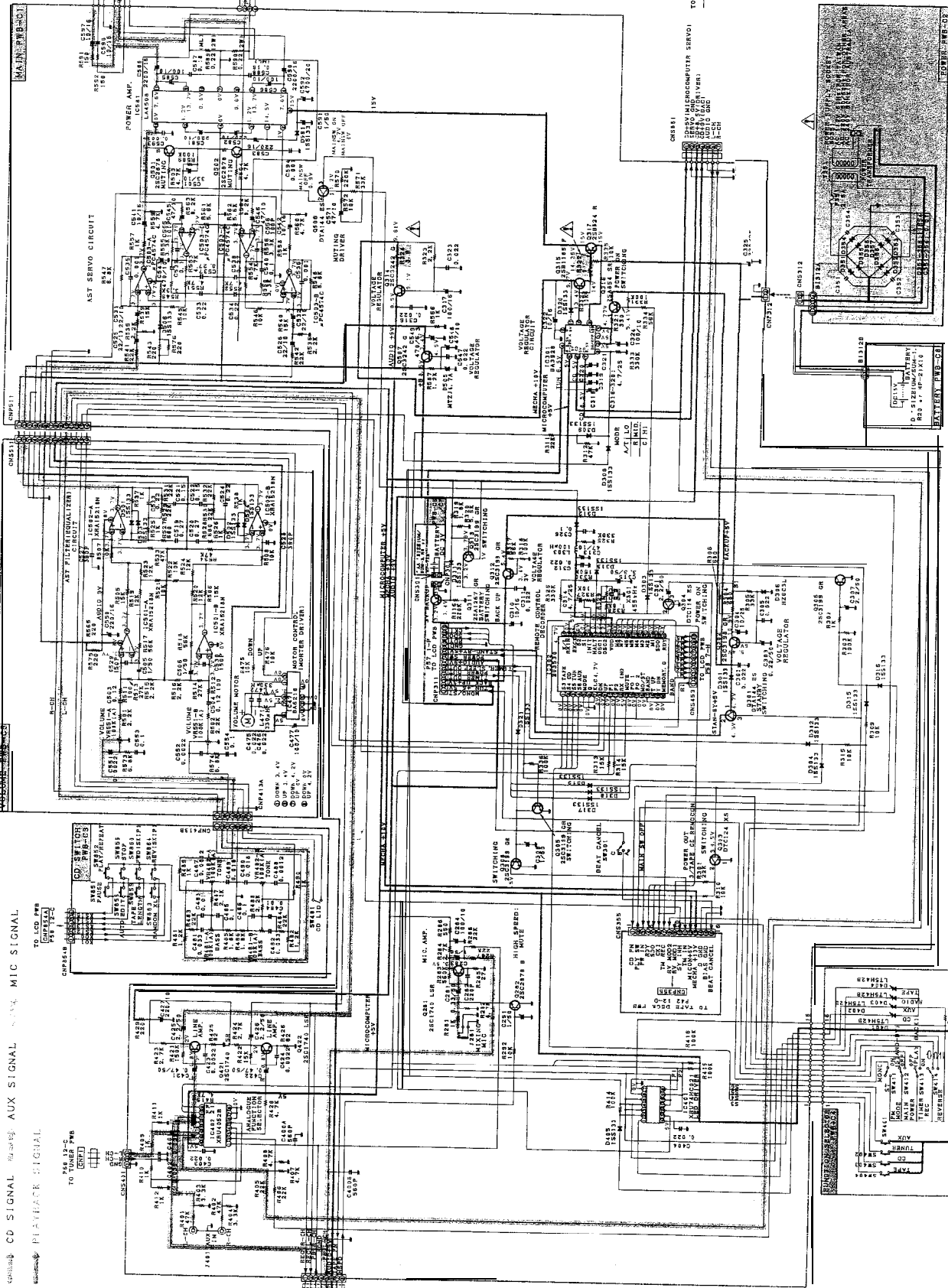
Figure 47 WIRING SIDE OF P.W.BOARD (2/4)

CD-JX20X

FM SIGNAL

CD SIGNAL AUX SIGNAL MIC SIGNAL

PLAYBACK SIGNAL



NOTES ON SCHEMATIC DIAGRAM can be found on page 41.

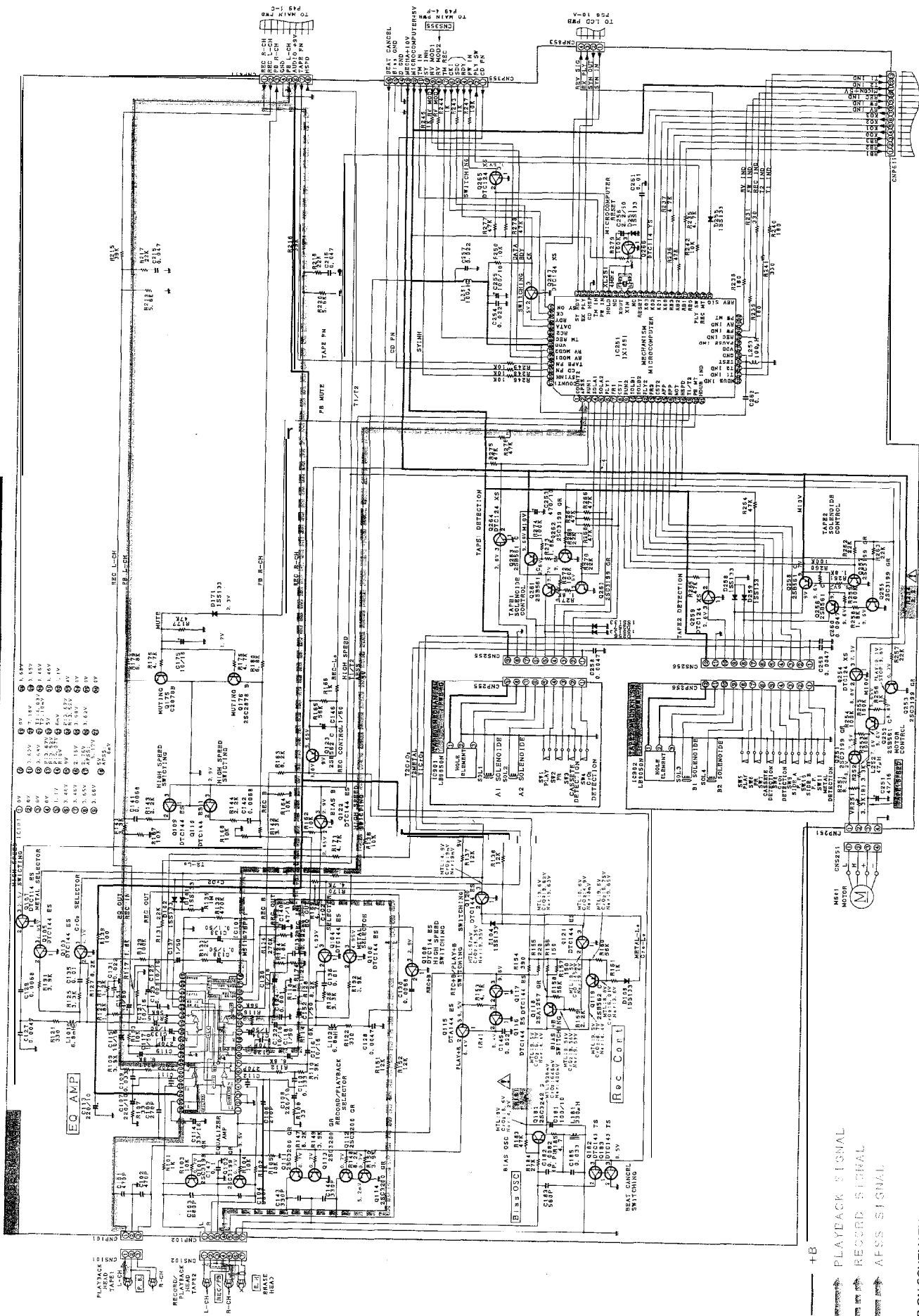
Figure 49 SCHEMATIC DIAGRAM (3/8)

CD-JX20X



Figure 51 WIRING SIDE OF P.W.BOARD (3/4)

CD-JX20X



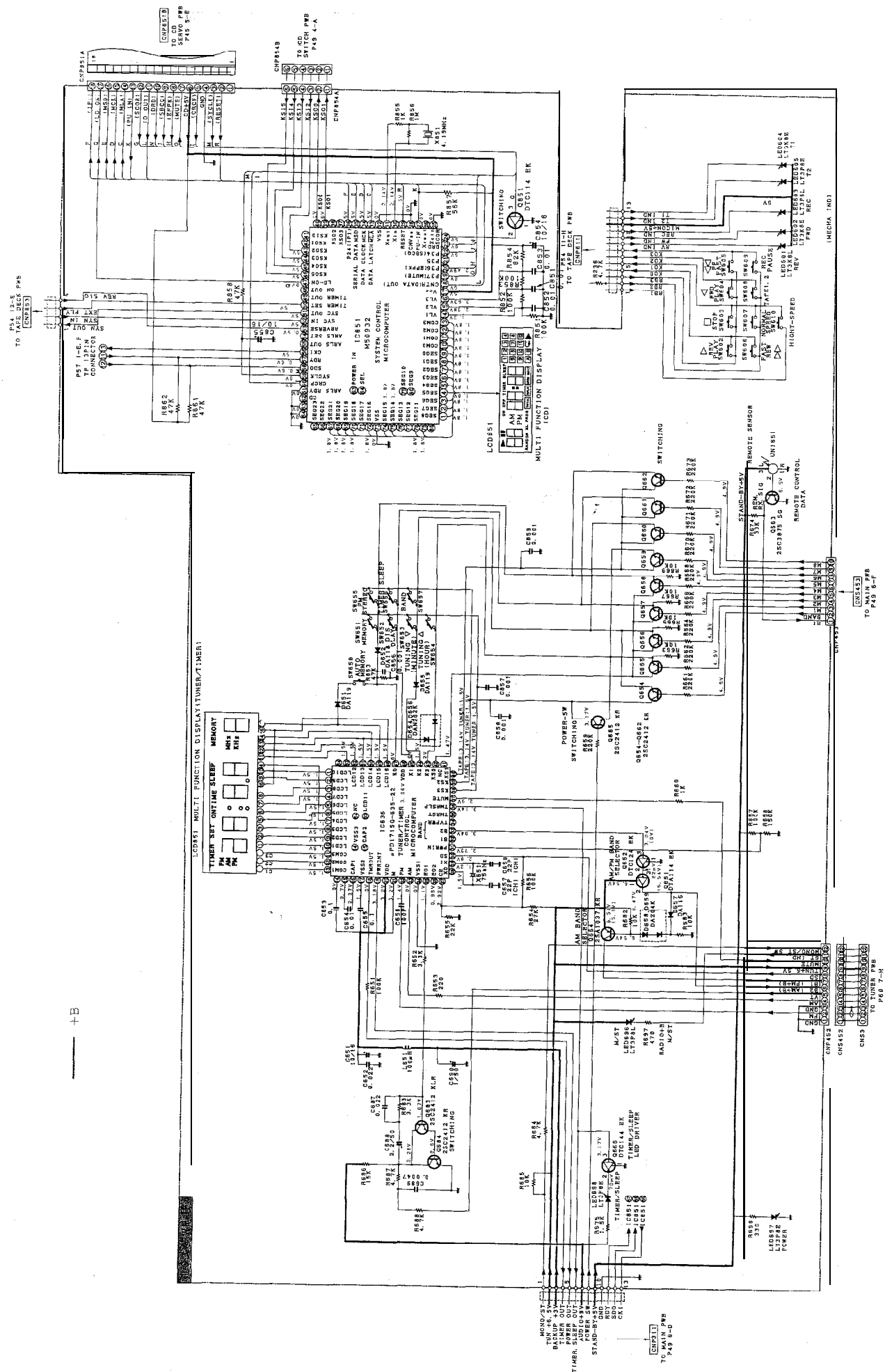
• NOTES ON SCHEMATIC DIAGRAM can be found on page 41.

Figure 53 SCHEMATIC DIAGRAM (3/5)

CD-JX20X

[illegible]

- : Top side of PWB.
- : Bottom side of PWB.
- : Through-hole (where front and back patterns are connected)



• NOTES ON SCHEMATIC DIAGRAM can be found on page 41.

Figure 57 SCHEMATIC DIAGRAM (4/5)



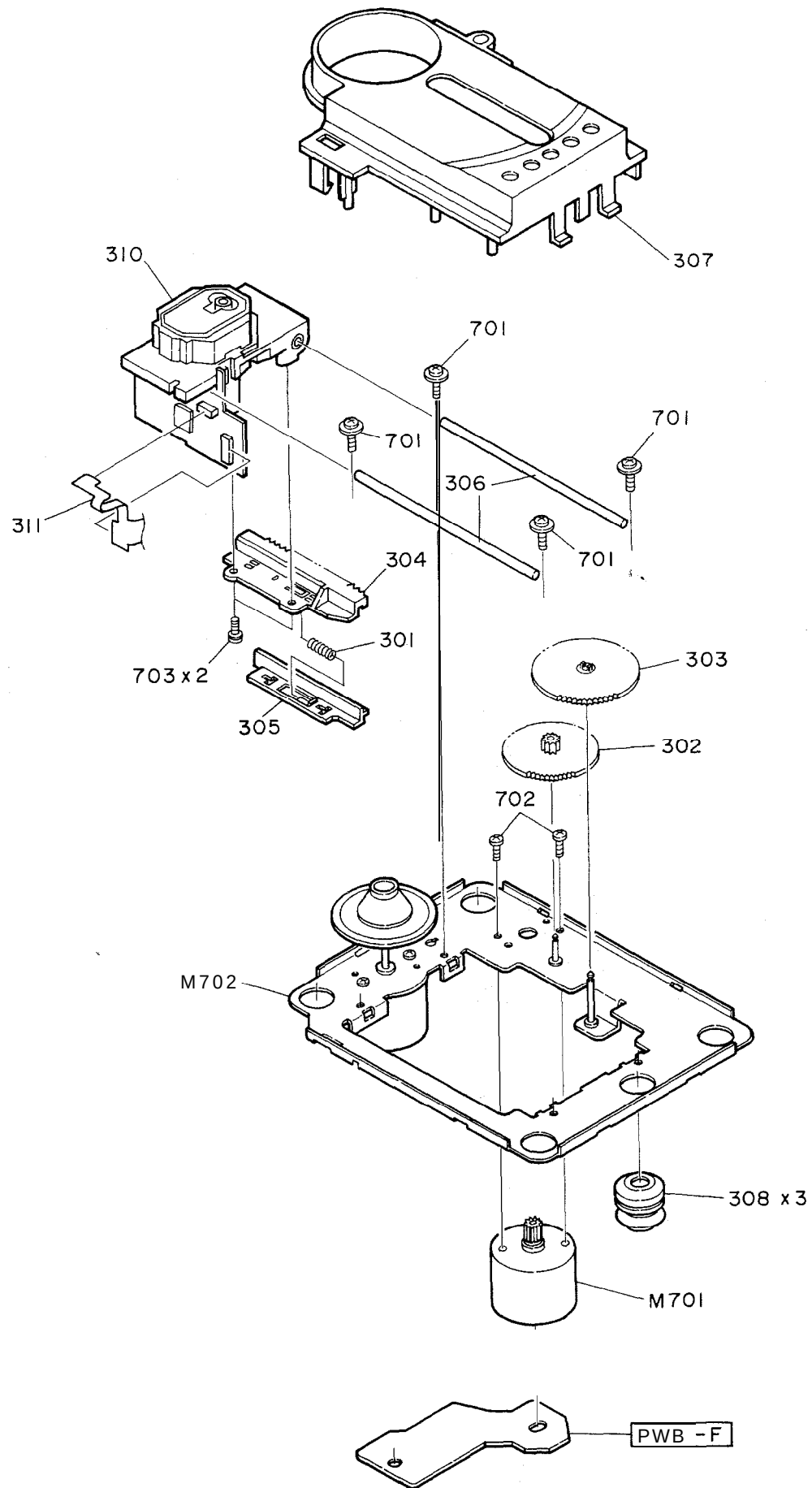


Figure 61 CD MECHANISM EXPLODED VIEW

DECK 1

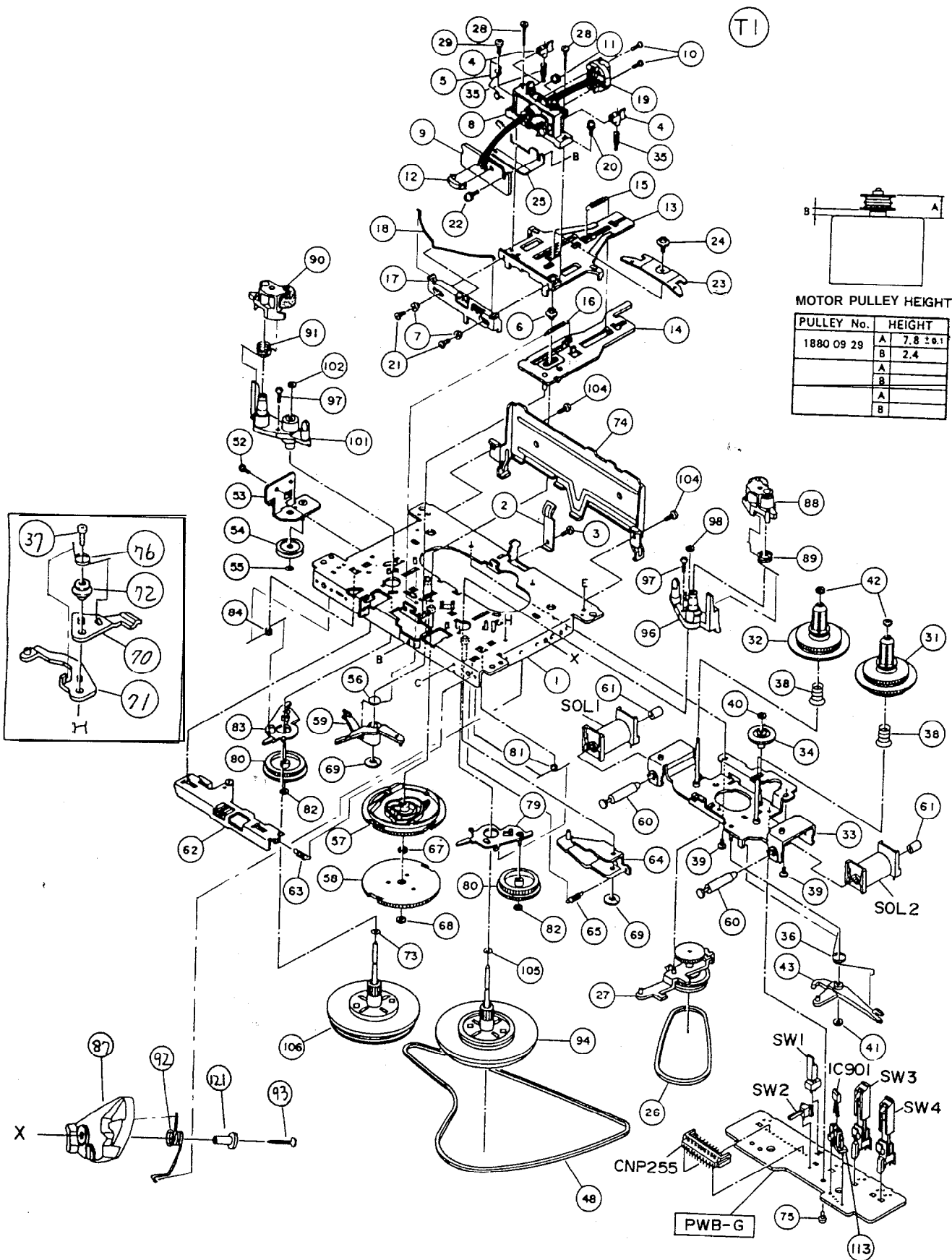


Figure 62 DECK MECHANISM EXPLODED VIEW (1/2)

DECK 2

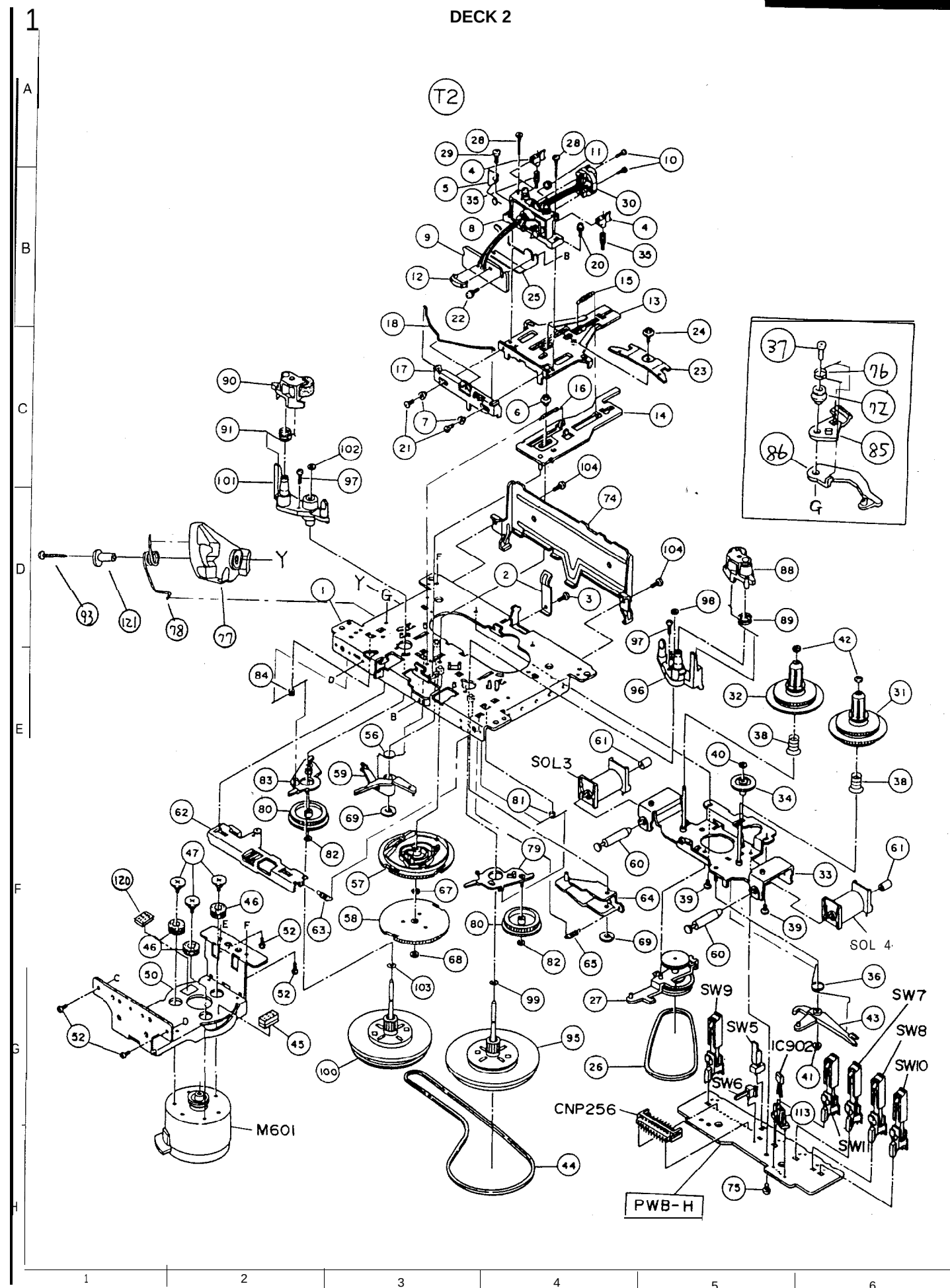
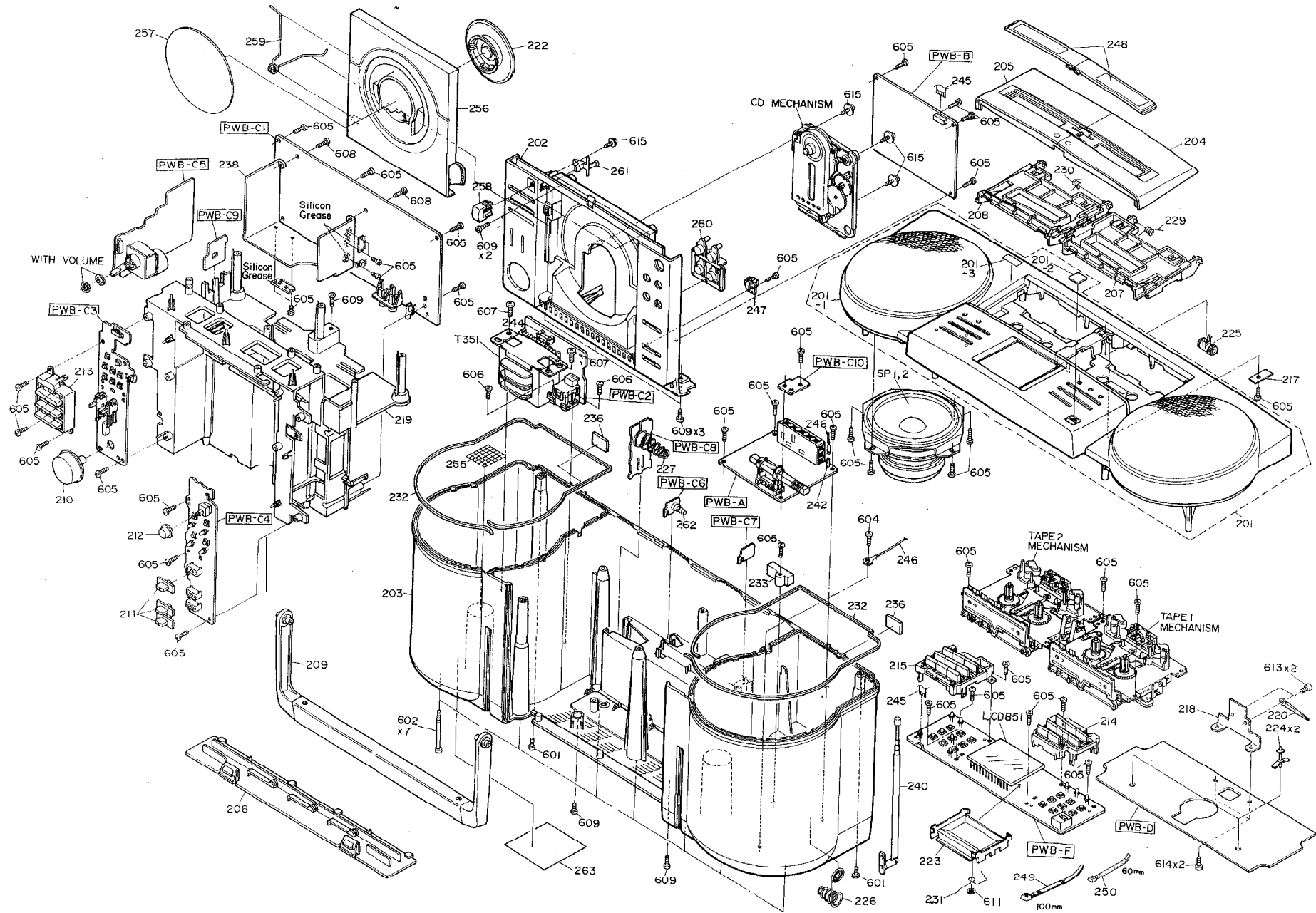


Figure 63 DECK MECHANISM EXPLODED VIEW (2/2)



FRONT CABINET EXPLODED VIEW

REPLACEMENT PARTS LIST

"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

NOTE:

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.	PART NO.	★	DESCRIPTION	CODE	REF.NO.	PART NO.	*	DESCRIPTION	CODE
INTEGRATED CIRCUITS					Q182,183	VSDTC143TS/-1 J Digital,NPN,DTC143 T S			AB
IC2	VHiLA1265//	-1 J	AM IF/FM IF DET,LA1265	AK	Q251	VS2SC3199GR-1 J Silicon,NPN,2SC3199 GR			AA
IC3	VHiBA1332L/-1 J	PLL FM MPX.,BA1332L		AG	Q252	VS2SB561-C/-1 J Silicon,PNP,2SB561 C			AC
IC101	VHiM51167BFP1 J	Equalizer AMP M51167		AL	Q253	VS2SC3199GR-1 J Silicon,NPN,2SC3199 GR			AA
		BFP1			Q254	VSDTC124XS/-1 J Digital,NPN,DTC124 X S			AB
IC251	RH-iX1851AFZZ J	Mechanism		AT	Q255	VS2SC3199GR-1 J Silicon,NPN,2SC3199 G R			AA
		Microcomputer,IX1851			Q256	VS2SB561-C/-1 J Silicon,PNP,2SB561 C			AC
IC301	VHiBA3928//	-1 J	Voltage Regulator,BA3928	AL	Q257	VS2SC3199GR-1 J Silicon,NPN,2SC3199 GR			AA
IC302	VHiBU3530//	-1 J	Remote Control Decoder, BU3530	AN	Q258	VS2SB561-C/-1 J Silicon,PNP,2SB561 C			AC
IC401	VHiXRU74HC021 J	LED Driver,XRU74HC021		AC	Q259	VSDTC124XS/-1 J Digital,NPN,DTC124 XS			AB
IC402	VHiXRU4052B-1 J	Analogue Switch,XRU4052		AE	Q260	VS2SC3199GR-1 J Silicon,NPN,2SC3199 G R			AA
		B			Q261	VS2SB561-C/-1 J Silicon,PNP,2SB561 C			AC
IC471	VHiBA6218//	-1 J	Motor Control,BA6218	AH	Q262	VS2SC3199GR-1 J Silicon,NPN,2SC3199 GR			AA
IC501,502	VHiXRA15218N1 J	AST Filter,XRA15218N		AC	Q263	VS2SB561-C/-1 J Silicon,PNP,2SB561 C			AC
IC503	VHiUPC4574C-1 J	AST Servo,μPC4574C		AE	4264,265	VSDTC124XS/-1 J Digital,NPN,DTC124 XS			AB
IC581	VHiLA4508//	-1 J	Power Amp.,LA4508	AM	Q266	VSDTC14YS/-1 J Digital,NPN,DTC114 YS			AB
IC636	RH-iX1836AFZZ J	Tuner/Timer Control		AT	Q267	VSDTC124XS/-1 J Digital,NPN,DTC124 XS			AB
		Microcomputer,μPD1715			Q281	VS2SC1740LSR1 J Silicon,NPN,2SC1740 LSR			AB
		G-635-22			Q282	VS2SC2878B/-1 J Silicon,NPN,2SC2878 B			AC
IC700	VHiLA6534//	-1 J	Tracking/Focus Driver, LA6534	AL	Q301	VSDTA144ES/-1 J Digital,PNP,DTA144 E S			AB
IC720	VHiLA6534//	-1 J	Tracking/Focus Driver, LA6534	AL	Q302	VS2SC3198GR-1 J Silicon,NPN,2SC3198 G R			AA
IC750	VHiM51594AFP1 J	Servo Control,M51594AFP		AP	Q303	VSDTC124XS/-1 J Digital,NPN,DTC124 XS			AB
IC780	VHiM50423P/-1 J	CD Signal Control,M50423		AW	Q304	VSDTC114ES/-1 J Digital,NPN,DTC114 E S			AB
		P			Q305,306	VS2SC3199GR-1 J Silicon,NPN,2SC3199 GR			AA
IC781	RH-iX1828AFZZ J	Memory D-RAM,M69030P		AQ	Q308	VS2SC3199GR-1 J Silicon,NPN,2SC3199 GR			AA
IC810	VHiLC9600AM-1 J	D/A Converter,LC9600AM		AK	Q311	VS2SA1267GR-1 J Silicon,PNP,2SA1267 G R			AA
IC811	VHiRC4565M/-1 J	Buffer AMP,RC4565M		AC	Q312,313	VS2SC3199GR-1 J Silicon,NPN,2SC3199 GR			AA
IC814	VHiRC78L05A-1 J	Voltage Regulator,RC78L05		AD	Q314	VS2SC3242-G-1 J Silicon,NPN,2SC3242 G			AC
		A			4315	VS2SB1185F/-1 J Silicon,PNP,2SB1185 F			AK
IC851	RH-iX1809AFZZ J	CD Microcomputer,M50932		AW	Q316	VS2SA854SR/-1 J Silicon,PNP,2SA854 S R			AB
IC901,902	94R68040603 J	Hole,LB9050TN		AH	Q317	VS2SB824R/-1 J Silicon,PNP,2SB824 R			AA
TRANSISTORS					Q421,422	VS2SC1740LSR1 J Silicon,NPN,2SC1740 LSR			AB
Q1	VS2SC3494B/-1 J	Silicon,NPN,2SC3494B		AB	Q501,502	VS2SC2878B/-1 J Silicon,NPN,2SC2878 B			AC
Q15,16	VS2SD1468SR-1 J	Silicon,NPN,2SD1468 S R		AB	Q506	VSDTA144ES/-1 J Digital,PNP,DTA144 E S			AB
Q101,102	VS2SC3199GR-1 J	Silicon,NPN,2SC3199 G R		AA	Q507	VS2SC3242-G-1 J Silicon,NPN,2SC3242 G			AC
4103,104	VSDTC144ES/-1 J	Digital,NPN,DTC144 ES		AB	Q651	VSDTA114EK/-1 J Digital,PNP,DTA114 EK			AB
Q105,106	VSDTC144ES/-1 J	Digital,NPN,DTC144 ES		AB	Q652	VSDTC124EK/-1 J Digital,NPN,DTC124 EK			AB
Q107,108	VSDTC144ES/-1 J	Digital,NPN,DTC144 ES		AB	Q654~663	VS2SC2412KR-1 J Silicon,NPN,2SC2412 K R			AB
Q109,110	VSDTC144ES/-1 J	Digital,NPN,DTC144 E S		AB	Q664	VS2SA1037KR-1 J Silicon,PNP,2SA1037 K R			AB
Q111~114	VS2SC3200GR-1 J	Silicon,NPN,2SC3200 GR		AB	Q665	VS2SC2412KR-1 J Silicon,NPN,2SC2412 KR			AB
4115	VSDTA144ES/-1 J	Digital,PNP,DTA144 ES		AB	4666	VSDTC144EK/-1 J Digital,NPN,DTC144 EK			AB
Q116,117	VSDTC144ES/-1 J	Digital,NPN,DTC144 E S		AB	Q683	VS2SC2412KLR1 J Silicon,NPN,2SC2412 K L R			AB
4118	VS2SA1267GR-1 J	Silicon,PNP,2SA1267 G R		AA	Q684	VS2SC2412KR-1 J Silicon,NPN,2SC2412 KR			AB
Q119	VS2SB562-C/-1 J	Silicon,PNP,2SB562 C		AD	Q701	VSDTC144EK/-1 J Digital,NPN,DTC144 EK			AB
Q120~122	VSDTC144ES/-1 J	Digital,NPN,DTC144 ES		AB	4811,812	VSDTC114TK/-1 J Digital,NPN,DTC114 TK			AB
Q123	VS2SB562-C/-1 J	Silicon,PNP,2SB562 C		AD	Q813,814	VSDTC363TK/-1 J Digital,NPN,DTC363 TK			AC
4175,176	VS2SC2878B/-1 J	Silicon,NPN,2SC2878 B		AC	Q815	VSDTA144EK/-1 J Digital,PNP,DTA144 EK			AB
4181	VS2SC3242-G-1 J	Silicon,NPN,2SC3242 G		AC	4816	VSDTC144EK/-1 J Digital,NPN,DTC144 EK			AB
					Q818	VSDTA114EK/-1 J Digital,PNP,DTA114 EK			AB
					Q851	VSDTC114EK/-1 J Digital,NPN,DTC114 E K			AB
					Q890	VS2SA1235FG-1 J Silicon,PNP,2SA1235 F G			AB
					DIODES				
					DI-3	VHD1SS133//	-1 J	Silicon,1SS133	AA

REF.NO.	PART NO.	*	DESCRIPTION	CODE
D6	VHD1SS133// -1	J	Silicon,ISS133	AA
D8	VHD1SS133// -1	J	Silicon,ISS133	AA
D101,102	VHD1SS133// -1	J	Silicon,ISS133	AA
D104	VHD1SS133// -1	J	Silicon,ISS133	AA
D108	VHD1SS133// -1	J	Silicon,ISS133	AA
D171	VHD1SS133// -1	J	Silicon,ISS133	AA
D251	VHD1SS133// -1	J	Silicon,ISS133	AA
D255~259	VHD1SS133// -1	J	Silicon,ISS133	AA
D301~304	VHD1SS133// -1	J	Silicon,ISS133	AA
D306	VHEHZ6C3L// -1	J	Zener,6V,HZ6C3L	AA
D308,309	VHD1SS133// -1	J	Silicon,ISS133	AA
D311~313	VHD1SS133// -1	J	Silicon,ISS133	AA
D315~321	VHD1SS133// -1	J	Silicon,ISS133	AA
△D351~358	VHD11ES4// -1	J	Silicon,11ES4	AB
D401~404	VHPLT5H42B// -1	J	LED,Yellow,LT5H42B	AB
D405	VHD1SS133// -1	J	Silicon,ISS133	AA
D501~504	VHD1SS133// -1	J	Silicon,ISS133	AA
D505	VHEMTZJ4R7A- 1	J	Zener,4.7V,MTZJ4.7A	AA
D506	VHD1SS133// -1	J	Silicon,ISS133	AA
D581	VHD1SS133// -1	J	Silicon,ISS133	AA
D651	VHDDA119// -1	J	Silicon,DA119	AA
D652	VHDDA118// -1	J	Silicon,DA118	AB
D654/656	VHDDAN202K// -1	J	Silicon,DAN202K	AB
D655	VHDDA119// -1	J	Silicon,DA119	AA
D657	VHDDA116// -1	J	Silicon,DA116	AB
D658/659	VHDDA204K// -1	J	Silicon,DA204K	AB
D791	VHDDA118// -1	J	Silicon,DA118	AB
LED601	VHPLT3K8L// -1	J	LED,Green LT3K8L	AB
LED602	VHPLT3K8E// -1	J	LED,Green LT3K8E	AB
LED603	VHPLT3P8L// -1	J	LED,Red LT3P8L	AB
LED604	VHPLT3K8E// -1	J	LED,Green LT3K8E	AB
LED605	VHPLT3P8E// -1	J	LED,Red LT3P8E	AB
LED696	VHPLT3P8L// -1	J	LED,Red LT3P8L	AB
LED697698	VHPLT3P8E// -1	J	LED,Red LT3P8E	AB

FILTERS

CF1,2	RF i LF0166AFZZ J FM IF	AC
CF3	RF i LA0176AFZZ J AM IF,450 kHz	AF
CF5	RF i LA0094AFZZ J AM,Auto Stop Oscillation	AE

TRANSFORMERS

T1	RC i LD0115AFZZ J FM Detector	AE
△T351	RTRNP 173 5AFZZ J Power,(FOR TAIWAN)	AW
AT351	RTRNP1736AFZZ J Power,(FOR OTHER AREAS)	AW
△T351	RTRNP 173 8AFZZ J Power,(FOR AUSTRALIA)	AW

COILS

L1	VP-DH470K0000 J 47 μ H,Choke	AB
L2	RC i LB1086AFZZ J AM OSC	AC
L3	RC i LA1090AFZZ J AM Bar Antenna	AG
L5	VP-XHR56M0000 J 0.56 μ H,Choke	AB
L7	VP-XH470K0000 J 47 μ H,Choke	AB
L11	VP-DH3R9K0000 J 3.9 μ H,AM Choke	AB
L101,102	RC i LC0094AFZZ J 6.8 mH	AD
L181	VP-MK331K0000 J 330 μ H,Choke	AB
L251	VP-DH101K0000 J 100 μ H,Choke	AB
L252	VP-MK470K0000 J 47 μ H,Choke	AB
L253	VP-CH101K0000 J 100 μ H,Choke	AB
L303	VP-MK101K0000 J 100 μ H,Choke	AB
L304	VP-DH101K0000 J 100 μ H,Choke	AB
L471,472	VP-MK331K0000 J 330 μ H,Choke	AB
L651	VP-MK101K0000 J 100 μ H,Choke	AB

REF.NO.	PART NO.	★	DESCRIPTION	CODE
VARIABLE RESISTORS				
VR1	RVR-MI002AFZZ J 47 kohms (B),Semi-VR	A B	[FM Autostop Sens.]	
VR2	RVR-M0997AFZZ J 5 kohms (B),Semi-VR	AB	[VCO]	
VR251	RVR-M0583AFZZ J 3.3 kohms (B),Semi-VR	AB	[Tape Speed]	
VR481A,B	RVR-P0167AFZZ J 100 kohm (A), [BASS]	AD		
VR482A,B	RVR-P0167AFZZ J 100 kohm (A), [TONE]	AD		
VR551A,B	RVR-Z0328AFZZ J100 kohm (A), [VOLUME]	A T		
VR700	RVR-M0590AFZZ J 47 kohms (B),Semi-VR	AB	[Focus Offset]	
VR710	RVR-M0590AFZZ J 47 kohms (B),Semi-VR	AB	[Tracking Offset]	
VR750	RVR-M0586AFZZ J 10 kohm (B),Semi-VR	AB	[Tracking Gain]	
VR751	RVR-M0586AFZZ J 10 kohm (B),Semi-VR	AB	[Focus Gain]	
VARIABLE CAPACITORS				
TC1	RTō-H1165AFZZ J Trimmer,20 pF [AM	AC	Traching fH]	
VD1	VHCKV1236Z23F J Variable Capacitance,	AS	KV1236Z23F	
VIBRATORS				
x301	RCRM-0042AFZZ J Ceramic,455 kHz	AE		
X651	RCRSBO 163AFZZ J Crystal,75 kHz	AH		
X780	RCRM- 0109AFZZ J Ceramic,8.46 MHz	AD		
X851	RCRM-0094AFZZ J Ceramic,4.19 MHz	AD		
XL251	RCRM- 0106AFZZ J Ceramic,4MHz	AC		
CAPACITORS				
There are two types of capacitors available and they can be identified from each other by reading their Part Numbers.				
•Ceramic type capacitor:				
A symbol "C" or "K" is given at the 3rd digit of its Part Number like "VCC (or K).....J."				
•Semiconductor type capacitor:				
A symbol "T" is given at the 3rd digit of its Part Number like "VCT.....J."				
The capacitance error of each capacitor is indicated by the symbol given at the 13th digit of the Part Number as follows:"J" ($\pm 5\%$), "K" ($\pm 10\%$), "M" ($\pm 20\%$), "N" ($\pm 30\%$), "C" (k0.25 pF), "D" (± 0.5 pF), "Z" ($+80-20\%$).				
(Tubular type ceramic capacitor is identified by the symbol TV(TQ/CY) of the part NO. VC00TV(TQ/CY)0000000; this TV(TQ/CY) does not mean the lead wire.)				
(Tubular type ceramic capacitor is identified by the symbolMF(MN) of the part NO. VC00MF(MN)0000000; this MF(MN) does not mean the lead wire.)				
Unless otherwise specified, electrolytic capacitors are $\pm 20\%$ type.				
c5	VCCRB1HH120J J 12 pF (RH),50V	AA		
C6	VCTYMN1EF223Z J 0.022 μ F,25V	AA		
c7	VCTYMN1CY103N J 0.01 μ F,16V	AA		
C10	VCQSMIHL471J J 470 pF,50V,Styrol	AB		
C11	VCKYMN1HB102K J 0.001 μ F,50V	AA		
C12	VCKZPA1HF473Z J 0.047 μ F,50V	AA		
C13	VCTYMN0JY223N J 0.022 μ F,6.3V	AA		
C14	VCCUMN1HJ180J J 18 pF (UJ),50V	AA		
C15	VCTYMN0JY223N J 0.022 μ F,6.3V	AA		
C16	RC-GZA10 6AF 1C J 10 μ F,16V,Electrolytic	AB		
C17	RC-GZA107AF 1A J 100 μ F,10V,Electrolytic	AB		
C18,19	VCTYMN0JY223N J 0.022 μ F,6.3V	AA		
C20	RC-GZA107AF 1A J 100 μ F,10V,Electrolytic	AB		
C21,22	VCTYMN1EF223Z J 0.022 μ F,25V	AA		
C23	RC-GZA105AF 1H J 1 μ F,50V,Electrolytic	AB		
C24	VCKYMN1HB33 1K J 330 pF,50V	AA		

REF.NO.	PART NO.	*	DESCRIPTION	CODE	REF.NO.	PART NO.	★	DESCRIPTION	CODE
c25	RC-GZA106AF1C	J 10	μ F,16V,Electrolytic	AB	C262	VCTYPU1EX104J	J 0.1	μ F,25V	AB
C26	VCTYPA1EX102K	J 0.001	μ F,25V	AA	C281	RC-GZA334AF1H	J 0.33	μ F,50V,Electrolytic	AA
C27	RC-GZA475AF1E	J 4.7	μ F,25V,Electrolytic	AB	C282	VCKYMN1HB221K	J 220	pF,50V	AA
C28	RC-GZA105AF1H	J 1	μ F,50V,Electrolytic	AB	C283	RC-GZA105AF	1H J 1	μ F,50V,Electrolytic	AB
c29	VCTYMN0JY223N	J 0.022	μ F,6.3V	AA	C284	RC-GZA107AF	1A J 100	μ F,10V,Electrolytic	AB
C30	RC-GZA474AF1H	J 0.47	μ F,50V,Electrolytic	AA	c291	RC-GZA105AF	1H J 1	μ F,50V,Electrolytic	AB
C31~33	RC-GZA105AF	1H J 1	μ F,50V,Electrolytic	AB	C301	RC-GZA225AF	1H J 2.2	μ F,50V,Electrolytic	AB
c34	VCQPKA2AA102J	J 0.001	μ F,100V, Polypropylene	AB	C302	VCTYMN1EF223Z	J 0.022	μ F,25V	AA
c35	RC-GZA107AF	1A J 100	μ F,10V,Electrolytic	AB	C303	RC-GZA224AF	1H J 0.22	μ F,50V,Electrolytic	AA
C36	VCTYPA1CX473K	J 0.047	μ F,16V	AA	C304	RC-GZA106AF	1E J 10	μ F,25V,Electrolytic	AA
C37,38	RC-GZA474AF	1H J 0.47	μ F,50V,Electrolytic	AA	C305	VCTYMN1EF223Z	J 0.022	μ F,25V	AA
c39	RC-GZA225AF	1H J 2.2	μ F,50V,Electrolytic	AB	C307	RC-GZA225AF	1H J 2.2	μ F,50V,Electrolytic	AB
C40	RC-GZAP27AF	1A J 220	μ F,10V,Electrolytic	AB	C308	RC-GZAI05AF	1H J 1	μ F,50V,Electrolytic	AB
c41	RC-GZA106AF	1C J 10	μ F,16V,Electrolytic	AB	C310	RC-GZA106AF	1C J 10	μ F,16V,Electrolytic	AB
C42	RC-GZA105AF	1H J 1	μ F,50V,Electrolytic	AB	C311,312	VCTYMN1EF223Z	J 0.022	μ F,25V	AA
c45	VCTYMN1EF223Z	J 0.022	μ F,25V	AA	c313	RC-GZA476AF	1A J 47	μ F,10V,Electrolytic	AB
C46	VCTYPA1EX223K	J 0.022	μ F,25V	AA	c314	RC-GZA475AF	1E J 4.7	μ F,25V,Electrolytic	AB
c47	RC-GZA105AF	1H J 1	μ F,50V,Electrolytic	AB	c315	RC-GZA335AF	1H J 3.3	μ F,50V,Electrolytic	AB
c49	VCTYMN1EF223Z	J 0.022	μ F,25V	AA	C316	VCTYMN1EF223Z	J 0.022	μ F,25V	AA
C51,52	VCKYMN1HB102K	J 0.001	μ F,50V	AA	C317	RC-GZA107AF	1C J 100	μ F,16V,Electrolytic	AB
c54	VCQYVA1HA223K	J 0.022	μ F,50V,Mylar	AA	C318~321	RC-GZA475AF	1E J 4.7	μ F,25V,Electrolytic	AB
C90	RC-GZA226AF	1A J 22	μ F,10V,Electrolytic	AB	C322	RC-GZA106AF	1C J 10	μ F,16V,Electrolytic	AB
C101,102	VCKYMN1HB471K	J 470	pF,50V	AA	C323	VCTYMN1EF223Z	J 0.022	μ F,25V	AA
C103,104	VCKYMN1HB681K	J 680	pF,50V	AA	C324	RC-GZA107AF	1A J 100	μ F,10V,Electrolytic	AB
C105,106	VCKYMN1HB271K	J 270	pF,50V	AA	C325	RC-GZA337AF	1E J 330	μ F,25V,Electrolytic	AC
C107,108	RC-GZA227AF	1A J 220	μ F,10V,Electrolytic	AB	C326	VCTYPV1CX104K	J 0.1	μ F,16V	AB
C109,110	VCTYPA1CX333K	J 0.033	μ F,16V	AA	C351~354	VCKZPA1HF103Z	J 0.01	μ F,50V	AA
C111,112	VCKYMN1HB271K	J 270	pF,50V	AA	C400A,B	VCKYMN1HB561K	J 560	pF,50V	AA
C113	RC-GZA227AF	1A J 220	μ F,10V,Electrolytic	AB	C401,402	VCTYPA1CX393K	J 0.039	μ F,16V	AB
C114	RC-GZA336AF	1C J 33	μ F,16V,Electrolytic	AB	C403,404	VCTYMN1EF223Z	J 0.022	μ F,25V	AA
C115	RC-EZY106AF	1C J 10	μ F,16V,Electrolytic	AB	C421,422	RC-GZA474AF	1H J 0.47	μ F,50V,Electrolytic	AA
C116	RC-GZA106AF	1C J 10	μ F,16V,Electrolytic	AB	C423,424	VCTYMN1CX222K	J 0.0022	μ F,16V	AA
C117,118	RC-GZA105AF	1H J 1	μ F,50V,Electrolytic	AB	C425,426	RC-GZA225AF	1H J 2.2	μ F,50V,Electrolytic	AB
C119,120	VCKYBT1HB271K	J 270	pF,50V	AA	C427	RC-GZA227AF	1A J 220	μ F,10V,Electrolytic	AB
C121,122	RC-GZA106AF	1C J 10	μ F,16V,Electrolytic	AB	C475,476	VCTYMN1EF223Z	J 0.022	μ F,25V	AA
C123,124	VCKYMN1HB102K	J 0.001	μ F,50V	AA	c477	RC-GZAI07AF	1A J 100	μ F,10V,Electrolytic	AB
C125,126	RC-GZA106AF	1C J 10	μ F,16V,Electrolytic	AB	C481,482	VCTYPA1CX333K	J 0.033	μ F,16V	AA
C127,128	VCTYMN1CX472K	J 0.0047	μ F,16V	AA	C483,484	VCTYPA1CX103K	J 0.01	μ F,16V	AA
C129,130	VCTYMN1CX682K	J 0.0068	μ F,16V	AA	C485,486	VCTYPA1CX104K	J 0.1	μ F,16V	AB
C131,132	VCTYPA1CX223K	J 0.022	μ F,16V	AA	C487,488	VCTYMN1CX122K	J 0.0012	μ F,16V	AA
C133,134	RC-GZA105AF	1H J 1	μ F,50V,Electrolytic	AB	C489,490	VCTYMN0JY183M	J 0.018	μ F,6.3V	AA
C135,136	VCTYPA1EX103K	J 0.01	μ F,25V	AA	C501	RC-GZA336AF	1A J 33	μ F,10V,Electrolytic	AB
C137	RC-GZA105AF	1H J 1	μ F,50V,Electrolytic	AB	C503,504	VCFYHA1HA124J	J 0.12	μ F,50V,Thin Film	AB
C138,139	RC-GZAI04AF	1H J 0.1	μ F,50V,Electrolytic	AB	C505,506	RC-GZA105AF	1H J 1	μ F,50V,Electrolytic	AB
C140	RC-GZA476AF	1A J 47	μ F,10V,Electrolytic	AB	C519,520	VCFYHA1HA274J	J 0.27	μ F,50V,Thin Film	AC
C141,142	VCTYMN1CX682K	J 0.0068	μ F,16V	AA	C521,522	VCFYHA1HA154J	J 0.15	μ F,50V,Thin Film	AC
C143	VCKYPA1HB331K	J 330	pF,50V	AA	C523,524	VCFYHA1HA224J	J 0.22	μ F,50V,Thin Film	AC
C144	VCKYMN1HB331K	J 330	pF,50V	AA	C525,526	RC-GZA226AF	1A J 22	μ F,10V,Electrolytic	AB
C145	VCKZPA1HF223Z	J 0.022	μ F,50V	AA	C527,528	VCKYBT1HB391K	J 390	pF,50V	AA
C146	RC-GZA105AF	1H J 1	μ F,50V,Electrolytic	AB	C529,530	VCCSPU1HL151J	J 150	pF,50V	AA
C147	VCTYPV1EX104K	J 0.1	μ F,25V	AB	C531,532	RC-GZAP26AF	1A J 22	μ F,10V,Electrolytic	AB
C151,152	RC-GZA105AF	1H J 1	μ F,50V,Electrolytic	AB	C533,534	VCFYHA1HA224J	J 0.22	μ F,50V,Thin Film	AC
C175	RC-GZA106AF	1C J 10	μ F,16V,Electrolytic	AB	C535,536	VCKYMN1HB102K	J 0.001	μ F,50V	AA
CI81	RC-GZA107AF	1A J 100	μ F,10V,Electrolytic	AB	C537,538	VCFYHA1HA274J	J 0.27	μ F,50V,Thin Film	AC
CI82	VCQPKA2AA822J	J 0.0082	μ F,100V, Polypropylene	AA	C539,540	VCTYPA1CX104J	J 0.1	μ F,16V	AB
CI83	VCCSPA1HL561J	J 560	pF,50V	AA	C541,542	RC-GZA106AF	1C J 10	μ F,16V,Electrolytic	AB
CI85	VCTYPA1EX333K	J 0.033	μ F,25V	AA	c543	RC-GZA477AF	1A J 470	μ F,10V,Electrolytic	AC
C215,216	VCTYPA1EX473K	J 0.047	μ F,25V	AA	C545,546	RC-GZA476AF	1A J 47	μ F,10V,Electrolytic	AB
C251	RC-GZA476AF	1C J 47	μ F,16V,Electrolytic	AB	c547	VCTYMN1EF223Z	J 0.022	μ F,25V	AA
C253	RC-GZA477AF	1A J 470	μ F,10V,Electrolytic	AC	C548	RC-GZA476AF	1A J 47	μ F,10V,Electrolytic	AB
C254	VCKZPA1HF223Z	J 0.022	μ F,50V	AA	c549	RC-GZA477AFOJ	J 470	μ F,6.3V,Electrolytic	AB
C255	RC-GZA107AF	1A J 100	μ F,10V,Electrolytic	AB	C550	RC-GZA227AF	1C J 220	μ F,16V,Electrolytic	AB
C256	RC-GZA225AF	1H J 2.2	μ F,50V,Electrolytic	AB	C551,552	VCTYMN1CX222K	J 0.0022	μ F,16V	AA
C257	VCKZPA1HF223Z	J 0.022	μ F,50V	AA	C553,554	VCTYPA1CX104K	J 0.1	μ F,16V	AB
C258	VCTYPA1EX472K	J 0.0047	μ F,25V	AA	C555,556	VCCSPV1HL101J	J 100	pF,50V	AA
c259	VCTYPV1EX472K	J 0.0047	μ F,25V	AA	C571	RC-GZA476AF	1A J 47	μ F,10V,Electrolytic	AB
C260	VCTYBT1CX472K	J 0.0047	μ F,25V	AA	C581,582	RC-GZA227AF	1A J 220	μ F,10V,Electrolytic	AB
C261	VCTYPU1EX104K	J 0.1	μ F,25V	AB	C583	RC-GZA227AF	1C J 220	μ F,16V,Electrolytic	AB
					C585,586	RC-GZA107AF	1A J 100	μ F,10V,Electrolytic	AB
					C587,588	RC-QZA184AFYJ	J 0.18	μ F,50V,Mylar	AC

REF.NO.	PART NO.	★	DESCRIPTION	CODE	REF.NO.	PART NO.	★	DESCRIPTION	CODE
C589,590	RC-GZV2 28AF 1C J 2200 μ F,16V,Electrolytic			AG	C854,855	RC-GZAI 06AF 1C J 10 μ F,16V,Electrolytic			AB
C591	RC-GZA105AF 1H J 1 μ F,50V,Electrolytic			AB	C856~859	VCKYTV1HB102K J 0.001 μ F,50V			AA
c592	RC-GZ005 1AFZZ J 4700 μ F,20V,Electrolytic			AH	caa3	VCKYTV1EF104Z J 0.1 μ F,25V			AA
C593,594	VCKYMN1HB102K J 0.001 μ F,50V			AA	C884	RC-GZA107AF 1A J 100 μ F,10V,Electrolytic			AB
C597,598	RC-GZAI 0 6AF 1C J 10 μ F,16V,Electrolytic			AB	C886	RC-GZA107AF 1A J 100 μ F,10V,Electrolytic			AB
C651	RC-GZA10 6AF 1C J 10 μ F,16V,Electrolytic			AB	C887	VCKYTV1EF104Z J 0.1 μ F,25V			AA
C652	VCKYTV1EF223Z J 0.022 μ F,25V			AA	C888	VCKYMN1HB102K J 0.001 μ F,50V			AA
C653	VCKYTV1EF104Z J 0.1 μ F,25V			AA	C890	VCKYTV1EF473Z J 0.047 μ F,25V			AB
C654	VCKYTV1EB103K J 0.01 μ F,25V			AA	C899	VCKYMN1HB271K J 270 pF,50V			AA
C655	VCKYTV1EF104Z J 0.1 μ F,25V			AA					
C656	VCCSTV1HL101J J 100 pF,50V			AA					
C657,658	VCCCTV1HH220J J 2.2 pF (CH),50V			AA					
C687	VCKYTV1EF223Z J 0.022 μ F,25V			AA					
C688	VCEALA1HW225M J 2.2 μ F,50V,Electrolytic			AB					
C689	VCKYTV1HB472K J 0.0047 μ F,50V			AA					
C690	RC-EZY 10 5AF 1H J 1 μ F,50V,Electrolytic			AB					
C701	VCKYMN1HB121K J 120 pF,50V			AA					
C704	VCKYTV1EF104Z J 0.1 μ F,25V			AA					
C710	VCKYMN1HB681K J 680 pF,50V			AA					
C712	VCKYTV1EF104Z J 0.1 μ F,25V			AA					
C716	VCTYMN1EF223Z J 0.022 μ F,25V			AA					
C719	VCKYTV1CF334Z J 0.33 μ F,16V			AB					
C720~723	VCKYTV1EF473Z J 0.047 μ F,25V			AB					
C724	VCKYTV1EF104Z J 0.1 μ F,25V			AA					
C725	VCTYMN1EF223Z J 0.022 μ F,25V			AA					
c744	VCKYTV1EF104Z J 0.1 μ F,25V			AA					
c745	VCCSTV1HL221J J 220 pF,50V			AA					
C750	VCTYMN1CX222K J 0.0022 μ F,16V			AA					
C752	VCKRTV1CR104K J 0.1 μ F,16V			AA					
c754	RC-GZA106AF 1C J 10 μ F,16V,Electrolytic			AB					
c755	VCKYTV1EF104Z J 0.1 μ F,25V			AA					
C756	VCKYMN1HB102K J 0.001 μ F,50V			AA					
c757	VCKYTV1EF104Z J 0.1 μ F,25V			AA					
C758	RC-GZA106AF 1C J 10 μ F,16V,Electrolytic			AB					
c759	VCKYMN1HB561K J 560 pF,50V			AA					
C760	VCKRTV1CR154K J 0.15 μ F,16V			AB					
C761	VCKYTV1HB562K J 0.0056 μ F,50V			AA					
C762	RC-GZA476AF 1A J 47 μ F,10V,Electrolytic			AB					
C763	VCKRTV1CR184K J 0.18 μ F,16V			AC					
C764	VCKYMN1HB121K J 120 pF,50V			AA					
C765	VCKRTV1CX563K J 0.056 μ F,16V			AB					
C766	VCKRTV 1CR154K J 0.15 μ F,16V			AB					
C767	RC-GZA226AF 1C J 22 μ F,16V,Electrolytic			AB					
C768	RC-GZA476AF 1A J 47 μ F,10V,Electrolytic			AB					
C769	VCKYTV1EF104Z J 0.1 μ F,25V			AA					
C770	RC-GZA476AF 1A J 47 μ F,10V,Electrolytic			AB					
c775	VCCSTV1HL221J J 220 pF,50V			AA					
C780	VCTYMN1CX222K J 0.0022 μ F,16V			AA					
C783	VCKYTV1EB223K J 0.022 μ F,25V			AB					
C784	VCKYMN1HB471K J 470 pF,50V			AA					
C785	VCKRTV1CR124K J 0.12 μ F,16V			AB					
C786	RC-GZA106AF 1C J 10 μ F,16V,Electrolytic			AB					
C787	VCKYTV1EF104Z J 0.1 μ F,25V			AA					
C788	VCKYTV1CF334Z J 0.33 μ F,16V			AB					
C789	VCKYTV1EF104Z J 0.1 μ F,25V			AA					
c793	VCKYTV1HB103K J 0.01 μ F,50V			AB					
C800	RC-GZA476AF 1A J 47 μ F,10V,Electrolytic			AB					
C801	VCKYTV1EF104Z J 0.1 μ F,25V			AA					
C802	RC-GZA476AF 1A J 47 μ F,10V,Electrolytic			AB					
C810	VCKYTV1CF334Z J 0.33 μ F,16V			AB					
C811	VCKYTV1EF104Z J 0.1 μ F,25V			AA					
C817,818	VCKYTV1CB823K J 0.082 μ F,16V			AB					
C829,830	RC-GZA106AF 1C J 10 μ F,16V,Electrolytic			AB					
C831	VCKYMN1HB102K J 0.001 μ F,50V			AA					
C832	VCKYMN1HB102K J 0.001 μ F,50V			AA					
ca34	VCKYTV1EF104Z J 0.1 μ F,25V			AA					
C835,836	RC-GZA4 76AF 1A J 47 μ F,10V,Electrolytic			AB					
C840	RC-GZA475AF 1E J 4.7 μ F,25V,Electrolytic			AB					
C841	VCTYMN1CY 103N J 0.01 μ F,16V			AA					
C851~853	VCKYTV1HB103K J 0.01 μ F,50V			AB					

RESISTORS

(Unless otherwise specified, resistors are $\pm 5\%$, carbon type.) (Tubular type carbon film resistor $\pm 5\%$ is identified the symbol TV(TQ/CY) of the part NO. VRS-TV(TQ/CY)0000000; this TV(TQ/CY) does not mean lead wire.)

(Tubular type carbon film resistor $\pm 5\%$ is identified the symbol MF(MN) of the part NO. VRD-MF(MN)0000000; this MF(MN) does not mean lead wire.)

VRD-MN2BDOOC J 0 ohm, Jumper, $\phi 1.4 \times 3.5$ mm, A A
Ivory

VRS-TQ2BB000 J J 0 ohm, Jumper, 1.55×3.1 mm, A A
Green

R1	VRD-MN2BD103J J 10 kohm, 1/8W	AA
R7	VRD-ST2CD470J J 47 ohms, 1/6W	AA
R9	VRD-MN2BD100J J 10 ohm, 1/8W	AA
R10	VRD-MN2BD563J J 56 kohms, 1/8W	AA
R11	VRD-ST2CD331J J 330 ohms, 1/6W	AA
R12	VRD-MN2BD392J J 3.9 kohms, 1/8W	AA
R13	VRD-MN2BD560J J 56 ohms, 1/8W	AA
R14	VRD-MN2BD222J J 2.2 kohms, 1/8W	AA
R15,16	VRD-MN2BD104J J 100 kohm, 1/8W	AA
R18	VRD-MN2BD102J J 1 kohm, 1/8W	AA
R19	VRD-MN2BD332J J 3.3 kohms, 1/8W	AA
R21	VRD-MN2BD823J J 82 kohms, 1/8W	AA
R22	VRD-MN2BD820J J 82 ohms, 1/8W	AA
R23	VRD-MN2BD392J J 3.9 kohms, 1/8W	AA
R24	VRD-MN2BD182J J 1.8 kohms, 1/8W	AA
R25	VRD-ST2CD183J J 18 kohms, 1/6W	AA
R27,28	VRD-MN2BD103J J 10 kohm, 1/8W	AA
R29	VRD-MN2BD102J J 1 kohm, 1/8W	AA
R31	VRD-MN2BD330J J 33 ohms, 1/8W	AA
R32	VRD-MN2BD221J J 220 ohms, 1/8W	AA
R34	VRD-MN2BD103J J 10 kohm, 1/8W	AA
R40	VRD-MN2BD561J J 560 ohms, 1/8W	AA
R41,42	VRD-MN2BD562J J 5.6 kohms, 1/8W	AA
R43	VRD-MN2BD473J J 47 kohms, 1/8W	AA
R44	VRD-MN2BD103J J 10 kohm, 1/8W	AA
R45	VRD-MN2BD102J J 1 kohm, 1/8W	AA
R71,72	VRD-MN2BD222J J 2.2 kohms, 1/8W	AA
R101,102	VRD-MN2BD102J J 1 kohm, 1/8W	AA
R103~105	VRD-MN2BD103J J 10 kohm, 1/8W	AA
R107,108	VRD-MN2BD330J J 33 ohms, 1/8W	AA
R109,110	VRD-MN2BD392J J 3.9 kohms, 1/8W	AA
R111,112	VRD-MN2BD682J J 6.8 kohms, 1/8W	AA
R113,114	VRD-MN2BD103J J 10 kohm, 1/8W	AA
R115,116	VRD-MN2BD563J J 56 kohms, 1/8W	AA
R117,118	VRD-ST2CD182J J 1.8 kohms, 1/6W	AA
R121,122	VRD-MN2BD331J J 330 ohms, 1/8W	AA
R123,124	VRD-MN2BD182J J 1.8 kohms, 1/8W	AA
R125,126	VRD-MN2BD332J J 3.3 kohms, 1/8W	AA
R127,128	VRD-MN2BD822J J 8.2 kohms, 1/8W	AA
R129	VRD-ST2CD104J J 100 kohm, 1/6W	AA
R130	VRD-MN2BD222J J 2.2 kohms, 1/8W	AA
R131	VRD-MN2BD223J J 22 kohms, 1/8W	AA
R132	VRD-MN2BD474J J 470 kohms, 1/8W	AA
R134	VRD-MN2BD274J J 270 kohms, 1/8W	AA
R135	VRD-MN2BD105J J 1 Mohm, 1/8W	AA
R136	VRD-MN2BD103J J 10 kohm, 1/8W	AA
R137	VRD-STPCD 123J J 12 kohms, 1/6W	AA
R138	VRD-MN2BD123J J 12 kohms, 1/8W	AA

REF.NO.	PART NO.	★	DESCRIPTION	CODE	REF.NO.	PART NO.	★	DESCRIPTION	CODE
R139	VRD-ST2CD101J	J	100 ohm,1/6W	AA	R271	VRD-MN2BD182J	J	1.8 kohms,1/8W	AA
R141	VRD-ST2CD332J	J	3.3 kohms,1/6W	AA	R272	VRD-MN2BD104J	J	100 kohm,1/8W	AA
R142	VRD-MN2BD332J	J	3.3 kohms,1/8W	AA	R273	VRD-MN2BD182J	J	1.8 kohms,1/8W	AA
R143	VRD-MN2BD222J	J	2.2 kohms,1/8W	AA	R274	VRD-MN2BD104J	J	100 kohm,1/8W	AA
R144	VRD-ST2CD222J	J	2.2 kohms,1/6W	AA	R275~278	VRD-MN2BD473J	J	47 kohms,1/8W	AA
R147	VRD-ST2CD822J	J	8.2 kohms,1/6W	AA	R279	VRD-MN2BD104J	J	100 kohm,1/8W	AA
R148	VRD-MN2BD822J	J	8.2 kohms,1/8W	AA	R281	VRD-MN2BD102J	J	1 kohm,1/8W	AA
R149,150	VRD-MN2BD392J	J	3.9 kohms,1/8W	AA	R282	VRD-MN2BD472J	J	4.7 kohms,1/8W	AA
R151	VRD-ST2CD123J	J	12 kohms,1/6W	AA	R283	VRD-MN2BD564J	J	560 kohms,1/8W	AA
R152	VRD-MN2BD123J	J	12 kohms,1/8W	AA	R284	VRD-MN2BD272J	J	2.7 kohms,1/8W	AA
R153	VRD-MN2BD472J	J	4.7 kohms,1/8W	AA	R285	VRD-MN2BD270J	J	27 ohms,1/8W	AA
R154	VRD-MN2BD391J	J	390 ohms,1/8W	AA	R286	VRD-MN2BD561J	J	560 ohms,1/8W	AA
R155	VRD-MN2BD221J	J	220 ohms,1/8W	AA	R287,288	VRD-ST2CD223J	J	22 kohms,1/6W	AA
R156	VRD-ST2CD151J	J	150 ohms,1/6W	AA	R292	VRD-MN2BD103J	J	10 kohm,1/8W	AA
R157	VRD-ST2CD151J	J	150 ohms,1/6W	AA	R301	VRD-ST2CD223J	J	22 kohms,1/6W	AA
R158	VRD-MN2BD563J	J	56 kohms,1/8W	AA	R302	VRD-MN2BD102J	J	1 kohm,1/8W	AA
R159	VRD-MN2BD222J	J	2.2 kohms,1/8W	AA	R303	VRD-MN2BD104J	J	100 kohm,1/8W	AA
R160	VRD-MN2BD563J	J	56 kohms,1/8W	AA	R304	VRD-MN2BD681J	J	680 ohms,1/8W	AA
R161	VRD-MN2BD102J	J	1 kohm,1/8W	AA	R305	VRD-MN2BD333J	J	33 kohms,1/8W	AA
R162	VRD-ST2CD103J	J	10 kohm,1/6W	AA	R306	VRD-MN2BD681J	J	680 ohms,1/8W	AA
R163	VRD-MN2BD822J	J	8.2 kohms,1/8W	AA	R309,310	VRD-MN2BD103J	J	10 kohm,1/8W	AA
R164	VRD-MN2BD103J	J	10 kohm,1/8W	AA	R311	VRD-MN2BD223J	J	22 kohms,1/8W	AA
R165	VRD-MN2BD563J	J	56 kohms,1/8W	AA	R312	VRD-MN2BD473J	J	47 kohms,1/8W	AA
R166	VRD-ST2CD102J	J	1 kohm,1/6W	AA	R313,314	VRD-ST2CD153J	J	15 kohms,1/6W	AA
R167,168	VRD-MN2BD103J	J	10 kohm,1/8W	AA	R315	VRD-MN2BD103J	J	10 kohm,1/8W	AA
R169~171	VRD-ST2CD472J	J	4.7 kohms,1/6W	AA	R316	VRD-MN2BD224J	J	220 kohms,1/8W	AA
R173,174	VRD-MN2BD122J	J	1.2 kohms,1/8W	AA	R317	VRD-MN2BD563J	J	56 kohms,1/8W	AA
R175,176	VRD-ST2CD472J	J	4.7 kohms,1/6W	AA	R318	VRD-MN2BD104J	J	100 kohm,1/8W	AA
R177	VRD-MN2BD473J	J	47 kohms,1/8W	AA	R319	VRD-MN2BD182J	J	1.8 kohms,1/8W	AA
R179	VRD-MN2BD682J	J	6.8 kohms,1/8W	AA	R320	VRD-MN2BD562J	J	5.6 kohms,1/8W	AA
R180	VRD-MN2BD682J	J	6.8 kohms,1/8W	AA	R321	VRD-ST2CD331J	J	330 ohms,1/6W	AA
AR181	RH-QX1053AFZZ	J	3.9 ohms,Posistor	AE	△R322	VRG-ST2EG1R0J	J	1 ohm,1/4W,Fusible	AO
R183	VRD-MN2BD473J	J	47 kohms,1/8W	AA	R323	VRD-ST2CD222J	J	2.2 kohms,1/6W	AA
R184	VRD-MN2BD273J	J	27 kohms,1/8W	AA	△R324	VRG-ST2EG3R9J	J	3.9 ohms,1/4W,Fusible	AB
R185	VRD-ST2CD47J	J	4.7 ohms,1/6W	AA	R325	VRD-ST2CD334J	J	330 kohms,1/6W	AA
R191	VRD-MN2BD392J	J	3.9 kohms,1/8W	AA	R326	VRD-MN2BD334J	J	330 kohms,1/8W	AA
R192	VRD-MN2BD392J	J	3.9 kohms,1/8W	AA	R327	VRD-MN2BD103J	J	10 kohm,1/8W	AA
R215	VRD-ST2CD393J	J	39 kohms,1/6W	AA	R328	VRD-MN2BD182J	J	1.8 kohms,1/8W	AA
R216	VRD-MN2BD393J	J	39 kohms,1/8W	AA	R329	VRD-MN2BD105J	J	1 Mohm,1/8W	AA
R217	VRD-MN2BD223J	J	22 kohm,1/8W	AA	R330	VRD-MN2BD154J	J	150 kohms,1/8W	AA
R218	VRD-MN2BD223J	J	22 kohm,1/8W	AA	R331	VRD-MN2BD104J	J	100 kohm,1/8W	AA
R219	VRD-ST2CD562J	J	5.6 kohms,1/6W	AA	R332	VRD-MN2BD103J	J	10 kohm,1/8W	AA
R220	VRD-MN2BD562J	J	5.6 kohms,1/8W	AA	R333	VRD-MN2BD334J	J	330 kohms,1/8W	AA
R231	VRD-ST2CD331J	J	330 kohms,1/6W	AA	R334	VRD-MN2BD563J	J	56 kohms,1/8W	AA
△R234	RH-QX1052AFZZ	J	2.2 ohms,Posistor	AE	R335	VRD-MN2BD103J	J	10 kohm,1/8W	AA
R235,237	VRD-ST2CD472J	J	47 kohms,1/6W	AA	R336	VRD-MN2BD104J	J	100 kohm,1/8W	AA
R236	VRD-ST2CD472J	J	47 kohms,1/6W	AA	R401	VRD-MN2BD473J	J	47 kohms,1/8W	AA
R238	VRD-ST2CD181J	J	180 ohms,1/6W	AA	R402	VRD-MN2BD473J	J	47 kohms,1/8W	AA
R239	VRD-SA2CD181J	J	180 kohms,1/6W	AA	R403,404	VRD-MN2BD332J	J	3.3 kohms,1/8W	AA
R240	VRD-MN2BD181J	J	180 ohms,1/8W	AA	R405,406	VRD-MN2BD223J	J	22 kohms,1/8W	AA
R241	VRD-MN2BD331J	J	330 ohms,1/8W	AA	R407,408	VRD-MN2BD472J	J	4.7 kohms,1/8W	AA
R242	VRD-ST2CD103J	J	10 kohm,1/6W	AA	R409,410	VRD-MN2BD102J	J	1 kohm,1/8W	AA
R243	VRD-ST2CD102J	J	1 kohm,1/6W	AA	R411,412	VRD-MN2BD102J	J	1 kohm,1/8W	AA
R244	VRD-MN2BD102J	J	1 kohm,1/8W	AA	R413	VRD-MN2BD151J	J	150 ohms,1/8W	AA
R245	VRD-ST2CD102J	J	1 kohm,1/6W	AA	R414~416	VRD-MN2BD104J	J	100 kohm,1/8W	AA
R246,247	VRD-ST2CD103J	J	10 kohm,1/6W	AA	R419,420	VRD-MN2BD472J	J	4.7 kohms,1/8W	AA
R248	VRD-MN2BD103J	J	10 kohm,1/8W	AA	R421	VRD-MN2BD154J	J	150 kohms,1/8W	AA
R249	VRD-ST2CD103J	J	10 kohm,1/6W	AA	R422	VRD-MN2BD154J	J	150 kohms,1/8W	AA
R250	VRD-MN2BD103J	J	10 kohm,1/8W	AA	R423	VRD-ST2CD272J	J	2.7 kohms,1/6W	AA
R251	VRD-ST2CD822J	J	8.2 kohms,1/6W	AA	R424	VRD-MN2BD272J	J	2.7 kohms,1/8W	AA
R252	VRD-ST2CD332J	J	3.3 kohms,1/6W	AA	R425,426	VRD-MN2BD820J	J	82 ohms,1/8W	AA
R253~255	VRD-MN2BD104J	J	100 kohm,1/8W	AA	R429	VRD-MN2BD221J	J	220 ohms,1/8W	AA
R256	VRD-MN2BD102J	J	1 kohm,1/8W	AA	R475,476	VRD-MN2BD103J	J	10 kohm,1/8W	AA
R257	VRD-MN2BD223J	J	22 kohms,1/8W	AA	R481,482	VRD-MN2BD122J	J	1.2 kohms,1/8W	AA
R258	VRD-MN2BD182J	J	1.8 kohms,1/8W	AA	R483,484	VRD-MN2BD223J	J	22 kohms,1/8W	AA
R259,260	VRD-MN2BD104J	J	100 kohm,1/8W	AA	R485,486	VRD-MN2BD182J	J	1.8 kohms,1/8W	AA
R261	VRD-MN2BD182J	J	1.8 kohms,1/8W	AA	R487,488	VRD-MN2BD222J	J	2.2 kohms,1/8W	AA
R262,263	VRD-MN2BD223J	J	22 kohms,1/8W	AA	R489,490	VRD-MN2BD102J	J	1 kohm,1/8W	AA
R264~268	VRD-MN2BD473J	J	47 kohms,1/8W	AA	R501,502	VRD-MN2BD222J	J	2.2 kohms,1/8W	AA
R269,270	VRD-MN2BD223J	J	22 kohms,1/8W	AA	R503,504	VRD-MN2BD472J	J	4.7 kohms,1/8W	AA

REF.NO.	PART NO.	★	DESCRIPTION	CODE	REF.NO.	PART NO.	★	DESCRIPTION	CODE
R505,506	VRD-MN2BD153J	J	15 kohms,1/8W	AA	R706	VRD-MN2BD104J	J	100 kohm,1/8W	AA
R507,508	VRD-MN2BD103J	J	10 kohm,1/8W	AA	R707	VRD-MN2BD2R2J	J	2.2 ohms,1/8W	AA
R509	VRD-MN2BD104J	J	100 kohm,1/8W	AA	R710	VRD-MN2BD334J	J	330 kohms,1/8W	AA
R511,512	VRD-MN2BD101J	J	100 ohm,1/8W	AA	R711	VRD-MN2BD103J	J	10 kohm,1/8W	AA
R513,514	VRD-MN2BD273J	J	27 kohms,1/8W	AA	R712	VRD-MN2BD223J	J	22 kohms,1/8W	AA
R515,516	VRD-MN2BD222J	J	2.2 kohms,1/8W	AA	R713	VRD-MN2BD103J	J	10 kohm,1/8W	AA
R517,518	VRD-MN2BD563J	J	56 kohms,1/8W	AA	R714	VRD-MN2BD223J	J	22 kohms,1/8W	AA
R519,520	VRD-MN2BD123J	J	12 kohms,1/8W	AA	R715	VRD-MN2BD823J	J	82 kohms,1/8W	AA
R521,522	VRD-MN2BD103J	J	10 kohm,1/8W	AA	R716	VRD-MN2BD2R2J	J	2.2 ohms,1/8W	AA
R523,524	VRD-MN2BD123J	J	12 kohms,1/8W	AA	R718,719	VRD-MN2BD473J	J	47 kohms,1/8W	AA
R525,526	VRD-MN2BD102J	J	1 kohm,1/8W	AA	R720,721	VRD-MN2BD473J	J	47 kohms,1/8W	AA
R527,528	VRD-MN2BD681J	J	680 ohms,1/8W	AA	R722,723	VRS-TV2AB124J	J	120 kohms,1/10W	AA
R529~532	VRD-MN2BD223J	J	22 kohms,1/8W	AA	R724	VRS-TV2AB563J	J	56 kohms,1/10W	AA
R533,534	VRD-MN2BD473J	J	47 kohms,1/8W	AA	R725	VRD-MN2BD563J	J	56 kohms,1/8W	AA
R535,536	VRD-MN2BD222J	J	2.2 kohms,1/8W	AA	R732	VRD-MN2BD2R2J	J	2.2 ohms,1/8W	AA
R537,538	VRD-MN2BD102J	J	1 kohm,1/8W	AA	R741	VRD-MN2BD682J	J	6.8 kohms,1/8W	AA
R539,540	VRD-MN2BD153J	J	15 kohms,1/8W	AA	R742	VRS-TV2AB2R2K	J	2.2 ohms,1/10W,±10%	AA
R541,542	VRD-MN2BD223J	J	22 kohms,1/8W	AA	R743	VRD-MN2BD223J	J	22 kohms,1/8W	AA
R543	VRD-MN2BD221J	J	220 ohms,1/8W	AA	R745	VRD-MN2BD103J	J	10 kohm,1/8W	AA
R545,546	VRD-MN2BD103J	J	10 kohm,1/8W	AA	R749	VRD-MN2BD393J	J	39 kohms,1/8W	AA
R547,548	VRD-MN2BD682J	J	6.8 kohms,1/8W	AA	R751	VRD-MN2BD102J	J	1 kohm,1/8W	AA
R549,550	VRD-MN2BD332J	J	3.3 kohms,1/8W	AA	R752	VRD-MN2BD103J	J	10 kohm,1/8W	AA
R551~554	VRD-MN2BD472J	J	4.7 kohms,1/8W	AA	R753	VRD-MN2BD102J	J	1 kohm,1/8W	AA
R555,556	VRD-MN2BD332J	J	3.3 kohms,1/8W	AA	R754	VRD-MN2BD473J	J	47 kohms,1/8W	AA
R557,558	VRD-ST2CD102J	J	1 kohm,1/6W	AA	R756	VRD-MN2BD104J	J	100 kohm,1/8W	AA
R559,560	VRD-MN2BD472J	J	4.7 kohms,1/8W	AA	R757	VRD-MN2BD153J	J	15 kohms,1/8W	AA
R561,562	VRD-MN2BD562J	J	5.6 kohms,1/8W	AA	R758	VRD-MN2BD392J	J	3.9 kohms,1/8W	AA
R563,564	VRD-ST2CD822J	J	8.2 kohms,1/6W	AA	R759	VRD-MN2BD473J	J	47 kohms,1/8W	AA
R565	VRD-MN2BD221J	J	220 ohms,1/8W	AA	R760	VRD-MN2BD103J	J	10 kohm,1/8W	AA
R566	VRD-MN2BD102J	J	1 kohm,1/8W	AA	R761	VRD-MN2BD153J	J	15 kohms,1/8W	AA
R567	VRD-MN2BD122J	J	1.2 kohms,1/8W	AA	R762	VRD-MN2BD472J	J	4.7 kohms,1/8W	AA
R570	VRD-ST2CD224J	J	220 kohms,1/6W	AA	R763	VRS-TV2AB562J	J	5.6 kohms,1/10W	AA
R571	VRD-MN2BD333J	J	33 kohms,1/8W	AA	R764	VRD-MN2BD472J	J	4.7 kohms,1/8W	AA
R572	VRD-MN2BD103J	J	10 kohm,1/8W	AA	R765	VRS-TV2AB223J	J	22 kohms,1/10W	AA
R573,574	VRD-MN2BD682J	J	6.8 kohms,1/8W	AA	R766	VRD-MN2BD473J	J	47 kohms,1/8W	AA
R575,576	VRD-MN2BD221J	J	220 ohms,1/8W	AA	R767	VRS-TV2AB823J	J	82 kohms,1/10W	AA
R589,590	VRS-FC3DAR22J	J	0.22 ohms,2W	AA	R768	VRS-TV2AB473J	J	47 kohms,1/10W	AA
R591	VRD-ST2CD151J	J	150 ohms,1/6W	AA	R769	VRD-MN2BD104J	J	100 kohm,1/8W	AA
R592	VRD-MN2BD151J	J	150 ohms,1/8W	AA	R770	VRD-MN2BD222J	J	2.2 kohms,1/8W	AA
R651	VRS-TV2AB104J	J	100 kohm,1/10W	AA	R771	VRD-MN2BD183J	J	18 kohms,1/8W	AA
R652	VRS-TV2AB332J	J	3.3 kohms,1/10W	AA	R772	VRD-MN2BD103J	J	10 kohm,1/8W	AA
R653	VRS-TV2AB221J	J	220 ohms,1/10W	AA	R773	VRD-MN2BD331J	J	330 ohms,1/8W	AA
R654	VRS-TV2AB273J	J	27 kohms,1/10W	AA	R774	VRD-MN2BD104J	J	100 kohm,1/8W	AA
R655	VRS-TV2AB223J	J	22 kohms,1/10W	AA	R776	VRD-MN2BD105J	J	1 Mohm,1/8W	AA
R656,657	VRS-TV2AB104J	J	100 kohm,1/10W	AA	R777	VRD-MN2BD682J	J	6.8 kohms,1/8W	AA
R658	VRS-TV2AB154J	J	150 kohms,1/10W	AA	R778,779	VRD-MN2BD473J	J	47 kohms,1/8W	AA
R659	VRS-TV2AB224J	J	220 kohms,1/10W	AA	R781	VRD-MN2BD333J	J	33 kohms,1/8W	AA
R660	VRS-TV2AB102J	J	1 kohm,1/10W	AA	R785	VRD-MN2BD103J	J	10 kohm,1/8W	AA
R661,662	VRS-TV2AB224J	J	220 kohms,1/10W	AA	R786	VRS-TV2AB223J	J	22 kohms,1/10W	AA
R663	VRS-TV2AB103J	J	10 kohm,1/10W	AA	R788	VRD-MN2BD124J	J	120 kohms,1/8W	AA
R664	VRS-TV2AB224J	J	220 kohms,1/10W	AA	R790	VRD-MN2BD222J	J	2.2 kohms,1/8W	AA
R665	VRS-TV2AB103J	J	10 kohm,1/10W	AA	R793	VRD-MN2BD155J	J	1.5 Mohms,1/8W	AA
R666	VRS-TV2AB224J	J	220 kohms,1/10W	AA	R794	VRD-MN2BD104J	J	100 kohm,1/8W	AA
R667	VRS-TV2AB103J	J	10 kohm,1/10W	AA	R795~798	VRS-TV2AB561J	J	560 ohms,1/10W	AA
R668	VRS-TV2AB224J	J	220 kohms,1/10W	AA	R801	VRD-MN2BD102J	J	1 kohm,1/8W	AA
R669	VRS-TV2AB103J	J	10 kohm,1/10W	AA	R813,814	VRD-MN2BD471J	J	470 ohms,1/8W	AA
R670~673	VRS-TV2AB224J	J	220 kohms,1/10W	AA	R815,816	VRD-MN2BD181J	J	180 ohms,1/8W	AA
R674	VRS-TV2AB333J	J	33 kohms,1/10W	AA	R817,818	VRS-TV2AB105J	J	1 Mohm,1/10W	AA
R675	VRS-TQ2BB152J	J	1.5 kohms,1/8W	AA	R833	VRD-MN2BD103J	J	10 kohm,1/8W	AA
R682,683	VRS-TV2AB103J	J	10 kohm,1/10W	AA	R834	VRD-MN2BD103J	J	10 kohm,1/8W	AA
R684	VRD-SA2CD472J	J	4.7 kohms,1/6W	AA	R835,836	VRD-MN2BD102J	J	1 kohm,1/8W	AA
R685	VRD-SA2CD103J	J	10 kohm,1/6W	AA	R839	VRD-MN2BD332J	J	3.3 kohms,1/8W	AA
R686	VRS-TV2AB153J	J	15 kohms,1/10W	AA	R851~853	VRS-TV2AB104J	J	100 kohm,1/10W	AA
R687,688	VRS-TV2AB472J	J	4.7 kohms,1/10W	AA	R854	VRS-TV2AB823J	J	82 kohms,1/10W	AA
R689	VRS-TV2AB332J	J	3.3 kohms,1/10W	AA	R855	VRS-TV2AB102J	J	1 kohm,1/10W	AA
R697	VRS-TQ2BB471J	J	470 ohms,1/8W	AA	R856	VRS-TV2AB105J	J	1 Mohm,1/10W	AA
R698	VRS-TQ2BB331J	J	330 ohms,1/8W	AA	R857	VRS-TV2AB563J	J	56 kohms,1/10W	AA
R700	VRD-MN2BD105J	J	1 Mohm,1/8W	AA	R858	VRD-SA2CD473J	J	47 kohms,1/6W	AA
R702	VRD-MN2BD104J	J	100 kohm,1/8W	AA	R861,862	VRS-TV2AB473J	J	47 kohms,1/10W	AA
R704,705	VRD-MN2BD473J	J	47 kohms,1/8W	AA	R863	VRS-TV2AB473J	J	47 kohms,1/10W	AA

REF.NO.	PART NO.	* DESCRIPTION	CODE	REF.NO.	PART NO.	* DESCRIPTION	CODE	REF.NO.	PART NO.	* DESCRIPTION	CODE	REF.NO.	PART NO.	* DESCRIPTION	C
R891	VRD-MN2BD473JJ4	7 kohms,1/8W	A A	SW6	94R640101191	J Switch,Leaf Type [TAPE 2 A E FF/REW]	A E	SW859	QSW-K0172AFZZ	J Switch,Key Type [TAPE 2 A E LENGTH1	A B	56	94R18800106	J Spring,Cam Trigger Arm	A
OTHER CIRCUITRY PARTS				SW7	94R640101173	Switch,Leaf Type [TAPE 2 A E Cassette1	A E	SW860	QSW-KO 172AFZZ	J Switch,Key Type [FWD(SKIP)]	A B	57	94R18802115	J Cam Gear	A
B1312A/B/CNS312	QCNWN5108AFZZ	J Connector Ass'y,2-2-4Pin	A F	SW8	94R640101173	Switch,Leaf Type [TAPE 2 A E CrO ₂]	A E	SW863	QSW-K0172AFZZ	J Switch,Key Type [RANDOM/XL]	A B	58	94R18802116	J Cam Gear,FF/REW	A
B1720	QCNWN4227AFZZ	J Connector Ass'y,6-6Pin	A F	SW9	94R640101173	Switch,Leaf Type [TAPE 2 A E B-FF]	A E	SW864	QSW-K0172AFZZ	J Switch,Key Type [REV(SKIP)]	A B	59	94R18802103	J Arm,Trigger	A
CNP1	QCNW623CAFZZ	J Socket,3Pin [Wire Trap]	A B	SW10	94R640101173	J Switch,Leaf Type [TAPE 2 A E A-FPI	A E	TP751	QCNCM687GAFZZ	J Plug,7Pin	A B	60	94R18802105	J Plunger	A
CNP3	QCNCM705DAFZZ	J Plug,12Pin	A C	SW11	94R640101173	Switch,Leaf Type [TAPE 2 A E Metal]	A E	TUN1	RTUNVO 120AFZZ	J Front End Unit	A U	61	94R18802106	J Holder,Plunger	A
CNP11	QCNCM839BAFZZ	J Plug,2Pin	A A	SW301	QSW-S0267AFZZ	J Switch,Slide Type [BEAT CANCEL]	A D	UNI651	RRMCU0067AFZZ	J Remote Sensor	A L	62	94R188021501	J Slide Lever Ass'y	A
CNP101	QCNCM687CAFZZ	J Plug,3Pin	A A	SW401	QSW-K0172AFZZ	J Switch,Key Type [AUX]	A B	DECK MECHANISM PARTS				63	94R18802108	J Spring,Slide Lever Ass'y	A
CNP102	QCNCM687GAFZZ	J Plug,7Pin	A B	SW402	QSW-K0172AFZZ	J Switch,Key Type	A B	1	94R188001501	J Main Chassis Ass'y	A Q	64	94R188021503	J Kick Lever Ass'y	A
CNP251	QCNCM705DAFZZ	J Plug,4Pin	A B	SW403	QSW-K0172AFZZ	J Switch,Key Type [CD]	A B	2	94R18800108	J Spring,Cassette Press	A B	65	94R18802111	J Spring,Kick Lever Ass'y	A
CNP255	QCNCM704JAFZZ	J Plug,9Pin	A C	SW404	QSW-K0172AFZZ	J Switch,Key Type [TAPE]	A B	3	94R91780000	J Screw,φ2×3mm	A A	66	94R95020000	J Ring,E-Type,φ2×0.4mm	A
CNP256	QCNCM704MAFZZ	J Plug,12Pin	A C	SW411	QSW-S0881AFZZ	J Switch,Slide Type [FM MODE1	A D	4	94R18650250A	J Tape Guide	A B	67	94R99997006	J Washer,φ1.55×φ3.5×0.5mm	A
CNP301	QCNCM705BAFZZ	J Plug,2Pin	A A	SW412	QSW-P0949AFZZ	Switch,Push Type [MAIN A E POWER1	A E	5	94R18650260	J Spring,Clamp	A A	68	94R99997004	J Washer,φ2.1×φ5×0.4mm	A
CNP311	QCNW623NAFZZ	J Socket,13Pin [Wire Trap]	A D	SW413	QSW-S0881AFZZ	Switch,Slide Type [TIMER A D REC]	A D	6	94R18650219	J Spacer,Head Panel	A B	69	94R18801301	J Lever,Eject Stopper(A)	A
CNP312	QCNCM742BAFZZ	J Plug,2Pin	A A	SW414	QSW-S0880AFZZ	Switch,Slide Type [REVERSE]	A D	7	94R18650228	J Spacer,Head Panel Lever	A B	70	94R18801302	J Lever,Eject Stopper(B)	A
CNP355	QCNCM705RAFZZ	J Plug,16Pin	A D	SW481	QSW-F0317AFZZ	Switch,Leaf Type [CD LID]	A C	8	94R186502306	J Head Base Ass'y	A N	71	94R18801305	J Collar,Eject Stopper	A
CNP401	QCNW623CAFZZ	J Socket,3Pin [Wire Trap]	A B	SW602	QSW-K0172AFZZ	Switch,Key Type [REV PLAY]	A B	9	94R18805332	J Relay Board	A E	72	94R18801305	J Collar,Eject Stopper	A
CNP411	QCNW623HAFZZ	J Socket,8Pin [Wire Trap]	A C	SW603	QSW-K0172AFZZ	J Switch,Key Type [STOP]	A B	10	94R99991817	J Screw,Head	A A	73	94R99996008	J Washer,φ2×φ3.5×0.5mm	A
CNP413A	QCNCM856GAFZZ	J Plug,7Pin	A C	SW604	QSW-K0172AFZZ	J Switch,Key Type [FWD PLAY]	A B	11	94R18650961	J Spacer,Head	A A	74	94R18805302	J Protector,Switch	A
CNP413B	QCNW856GAFZZ	J Socket,7Pin	A C	SW605	QSW-K0172AFZZ	J Switch,Key Type [FAST FF]	A B	12	94R18650249	J Wire Holder	A C	75	94R91800000	J Screw,φ2×4mm	A
CNP452	QCNCM704MAFZZ	J Plug,12Pin	A C	SW606	QSW-K0172AFZZ	J Switch,Key Type [FAST REW]	A B	13	94R18800201	J Head Panel	A G	76	94R18801309	J Spring,Eject Stopper Lever	A
CNP453	QCNCM705CAFZZ	J Plug,10Pin	A C	SW607	QSW-K0172AFZZ	J Switch,Key Type [NORMAL SPEED]	A B	14	94R188002501	J Head Panel Ass'y	A G	77	94R18801324	J Lever,Right Side Lock	A
CNP511	QCNCM846PAFZZ	J Plug,14Pin	A C	SW608	QSW-K0172AFZZ	J Switch,Key Type [TAPE1 Z1	A B	15	94R18800204	J Spring,Head Panel	A B	78	94R18801326	J Spring,Right Side Lock	A
CNP582	QCNCM863DAFZZ	J Plug,4Pin	A B	SW609	QSW-K0172AFZZ	J Switch,Key Type [REC PAUSE1	A B	16	94R18800205	J Spring,Head Panel Ass'y	A B	79	94R188005502	J Arm,Forward Gear	A
CNP611	QCNW623NAFZZ	J Socket,13Pin [Wire Trap]	A D	SW610	QSW-K0172AFZZ	J Switch,Key Type [HIGH SPEED]	A B	17	94R18800206	J Lever,Head Panel	A D	80	94R18800536	J Gear,Take-up	A
CNP700	QCNW620RAFZZ	J Socket,16Pin	A E	SW651	QSW-K0172AFZZ	J Switch,Key Type [MEMORY]	A B	18	94R18800405	J Spring,Pinch Roller	A B	81	94R18800518	J Spring,Forward Gear Arm	A
CNP720	QCNCM687FAFZZ	J Plug,6Pin	A B	SW652	QSW-K0172AFZZ	J Switch,Key Type [DISPLAY]	A B	19	RHEDF0144AFZZ	J Head,Playback/Record	A N	82	94R94210000	J Washer,φ1.2×φ3×0.25mm	A
CNP851A	QCNW653TAFZZ	J Socket,18Pin	A C	SW653	QSW-K0172AFZZ	J Switch,Key Type [TUNING A B DOWN/MINUTE]	A B	20	94R90780000	J Screw,φ2×5mm	A A	83	94R188005503	J Arm,Rewind Gear	A
CNP851B	QCNW652TAFZZ	J Socket,18Pin	A C	SW654	QSW-K0172AFZZ	J Switch,Key Type [TUNING A B UP/HOUR]	A B	21	94R95470000	J Screw,φ1.7×3mm	A A	84	94R18800519	J Spring,Rewind Gear Arm	A
CNP853	QCNW623DAFZZ	J Socket,4Pin [Wire Trap]	A B	SW655	QSW-K0172AFZZ	J Switch,Key Type [FM STEREO]	A B	22	94R99992020	J Screw,φ2×5mm	A A	85	94R18801306	J Lever,Stop,B	A
CNP854A	QCNW856FAFZZ	J Socket,6Pin	A C	SW656	QSW-K0172AFZZ	J Switch,Key Type [TIMER A B SLEEP1	A B	23	94R18800216	J Spring,Plate,Head Panel	A A	86	94R18801307	J Lever,Stop,B	A
CNP854B	QCNW856FAFZZ	J Plug,6Pin	A C	SW657	QSW-K0172AFZZ	J Switch,Key Type [RANDOM A B MEMORY1	A B	24	94R99991816	J Screw,φ2×5mm	A A	87	94R18801323	J Lever,Left Side Lock	A
CNP881	QCNCM704GAFZZ	J Plug,7Pin	A C	SW658	QSW-K0172AFZZ	J Switch,Key Type [AUTO- EDIT]	A B	25	94R18650257	J Shield Plate	A C	88	94R188004307	J Pinch Roller Ass'y,Forward	A
CNS3/452	QCNWNS 102AFZZ	J Connector Ass'y,12-12Pin	A K	SW702	QSW-P0920AFZZ	J Switch,Push Type [PICKUP IN]	A C	26	94R18800708	J Belt,FF/REW	A H	89	94R18800403	J Spring,Pinch Roller	A
CNS11	QCNWNS239AFZZ	J Connector Ass'y,2Pin	A C	SW851	QSW-K0172AFZZ	J Switch,Key Type [PAUSE]	A B	27	94R188007302	J Roller,FF/REW Ass'y	A Q	90	94R188004308	J Pinch Roller Ass'y,Rewind	A
CNS101	QCNWNS090AFZZ	J Connector Ass'y,3Pin	A E	SW852	QSW-K0172AFZZ	J Switch,Key Type [PLAY/REPEAT]	A B	28	94R18650252	J Screw,Guide	A A	91	94R18800404	J Spring,Pinch Roller,Rewind	A
CNS102	QCNWNS091AFZZ	J Connector Ass'y,7Pin	A H	SW855	QSW-K0172AFZZ	J Switch,Key Type [AUTO- EDIT]	A B	29	94R91170000	J Screw,φ2×5mm	A A	92	94R18801325	J Spring,Left Side Lock	A
CNS251	QCNWNS100AFZZ	J Connector Ass'y,4Pin	A C	SW856	QSW-K0172AFZZ	J Switch,Key Type [STOP]	A B	30	RHEDK0081AFZZ	J Head,Record/Playback/ Erase	A V	93	94R188004308	J Pinch Roller Ass'y,Rewind	A
CNS255	QCNWNS095AFZZ	J Connector Ass'y,9Pin	A E	SW857	QSW-K0172AFZZ	J Switch,Key Type [TUNING A B DOWN/MINUTE]	A B	31	94R188005322	J Reel Ass'y,Forward	A M	94	94R188009313	J Flywheel Ass'y,Tape 1	A
CNS256	QCNWNS096AFZZ	J Connector Ass'y,12Pin	A F	SW858	QSW-K0172AFZZ	J Switch,Key Type [TUNING A B DOWN/MINUTE]	A B	32	94R188005323	J Reel Ass'y,Rewind	A L	95	94R188009301	J Flywheel Ass'y,Tape 2	A
CNS301	QCNWNS114AFZZ	J Connector Ass'y,2Pin	A C	SW859	QSW-K0172AFZZ	J Switch,Key Type [TUNING A B DOWN/MINUTE]	A B	33	94R188005501	J Reel Base Ass'y	A M	96	94R18800908	J Metal Ass'y,Forward	A
CNS355	QCNWNS093AFZZ	J Connector Ass'y,16Pin	A H	SW860	QSW-K0172AFZZ	J Switch,Key Type [TUNING A B DOWN/MINUTE]	A B	34	94R18800508	J Gear,FF	A E	97	94R91820000	J Screw,φ2×6mm	A
CNS453	QCNWNS 103AFZZ	J Connector Ass'y,10Pin	A F	SW861	QSW-K0172AFZZ	J Switch,Key Type [TUNING A B DOWN/MINUTE]	A B	35	94R18650254	J Spring,Tape Guide	A B	98	94R99997007	J Washer,φ1.8×φ4×0.5mm	A
CNS511	QCNW644PAFZZ	J Socket,14Pin	A D	SW862	QSW-K0172AFZZ	J Switch,Key Type [TUNING A B DOWN/MINUTE]	A B	36	94R18800517	J Spring,FF/REW Trigger	A B	99	94R99996003	J Washer,φ2.3×φ3.8×0.3mm	A
CNS582	QCNWNS 106AFZZ	J Connector Ass'y,4Pin	A F	SW863	QSW-K0172AFZZ	J Switch,Key Type [TUNING A B DOWN/MINUTE]	A B	37	94R18800517	J Spring,FF/REW Trigger	A B	100	94R188009302	J Flywheel Ass'y,Rewind	A
CNS881	QCNWNS 106AFZZ	J Connector Ass'y,7Pin	A E	SW864	QSW-K0172AFZZ	J Switch,Key Type [TUNING A B DOWN/MINUTE]	A B	38	94R99991404	J Screw,φ2×6mm	A A	101	94R188009302	J Flywheel Ass'y,Rewind	A
△F351	QFS-C252GAFNi	J Fuse,T2.5A,250V	A C	SW865	QSW-K0172AFZZ	J Switch,Key Type [TUNING A B DOWN/MINUTE]	A B	39	94R18800522	J Spring,Reel Back Tension	A B	102	94R188009314	J Flywheel Ass'y,Rewind	A
J281	QJAKE0 124AFZZ	J Jack,Microphone	A C	SW866	QSW-K0172AFZZ	J Switch,Key Type [TUNING A B DOWN/MINUTE]	A B	40	94R91800000	J Screw,φ2×4mm	A A	103	94R188009314	J Flywheel Ass'y,Rewind	A
J401	QJAKZ0197AFZZ	J Jack,AUX	A C	SW867	QSW-K0172AFZZ	J Switch,Key Type [TUNING A B DOWN/MINUTE]	A B	41	94R94210000	J Washer,φ1.2×φ3×0.25mm	A A	104	94R188009314	J Flywheel Ass'y,Rewind	A
J581	QJAKJ0167AFZZ	J Jack,Headphones	A E	SW868	QSW-K0172AFZZ	J Switch,Key Type [TUNING A B DOWN/MINUTE]	A B	42	94R98760000	J Washer,φ2.1×φ5×0.5mm	A A	113	94R18805303	J IC, Protector	A E
LCD851	RV-LX0 134AFZZ	J LCD,Multi Function Display	A T	SW869	QSW-K0172AFZZ	J Switch,Key Type [TUNING A B DOWN/MINUTE]	A B	43	94R99997003	J Washer,φ1.4×φ3.2×0.4mm	A A	120	94R182112179	J Mat	A D
M601	94R188009333	J Motor with Pulley [Tape]	A Q	SW870	QSW-K0172AFZZ	J Switch,Key Type [TUNING A B DOWN/MINUTE]	A B	44	94R18800515	J Arm,FF/REW Trigger	A A	121	94R18801327	J Collar,Lock Lever	A B
M701	RM0TV0384AF00	J Motor with Gear [Slide]	A P	SW871	QSW-K0172AFZZ	J Switch,Key Type [TUNING A B DOWN/MINUTE]	A B	45	94R18800942	J Belt,Main	A H	Mb01	94R18809333	J Motor with Pulley	A Q
M702	RM0TV0383AF02	J Motor with Gear [Disc]	A R	SW872	QSW-K0172AFZZ	J Switch,Key Type [TUNING A B DOWN/MINUTE]	A B	46	94R18800920	J Mat	A B	SOL1~4	94R18802121	J Solenoid	A H
AS0351	QSGCA2201AFZZ	J Socket,AC Power Supply	A F	SW873	QSW-K0172AFZZ	J Switch,Key Type [TUNING A B DOWN/MINUTE]	A B	47	94R18211266	J Cushion,Motor	A A	SW1	94R640101190	J Switch,Leaf Type [TAPE 1 A E FF/REW]	A E
SOL1~4	94R18802121	J Solenoid	A H	SW874	QSW-K0172AFZZ	J Switch,Key Type [TUNING A B DOWN/MINUTE]	A B	48	94R18511418	J Screw,Motor	A A	SW2	94R640101191	J Switch,Leaf Type [TAPE 1 A E FF/REW]	A E
SP1,2	VSP0010PBM84A	J Speaker,Woofers	A S	SW875	QSW-K0172AFZZ	J Switch,Key Type [TUNING A B DOWN/MINUTE]	A B	49	94R18800952	J Belt,Flywheel Drive	A H	SW3	94R640101173	J Switch,Leaf Type [TAPE 1 A E FF/REW]	A E
SW1	94R640101190	J Switch,Leaf Type [TAPE 1 A E Play]	A E	SW876	QSW-K0172AFZZ	J Switch,Key Type [TUNING A B DOWN/MINUTE]	A B	50	94R18800943	J Bracket,Motor	A E	SW4	94R640101173	J Switch,Leaf Type [TAPE 1 A E FF/REW]	A E
SW2	94R640101191	J Switch,Leaf Type [TAPE 1 A E FF/REW]	A E	SW877	QSW-K0172AFZZ	J Switch,Key Type [TUNING A B DOWN/MINUTE]	A B	51	94R91800000	J Screw,φ2×4mm	A A	SW5	94R640101190	J Switch,Leaf Type [TAPE 2 A E Play]	A E
SW3	94R640101173	J Switch,Leaf Type [TAPE 1 A E Cassette1	A E	SW878	QSW-K0172AFZZ	J Switch,Key Type [TUNING A B DOWN/MINUTE]	A B	52	94R188009503	J Bracket,Pulley	A H				
SW4	94R640101173	J Switch,Leaf Type [TAPE 1 A E CrO ₂]	A E	SW879	QSW-K0172AFZZ	J Switch,Key Type [TUNING A B DOWN/MINUTE]	A B	53	94R18650930	J Center,Pulley	A B				
SW5	94R640101190	J Switch,Leaf Type [TAPE 2 A E Play]	A E	SW880	QSW-K0172AFZZ	J Switch,Key Type [TUNING A B DOWN/MINUTE]	A B	54	94R99270000	J Washer,φ0.85×φ2.8×0.25	A A				
				SW881	QSW-K0172AFZZ	J Switch,Key Type [TUNING A B DOWN/MINUTE]	A B	55							

REF.NO.	PART NO.	* DESCRIPTION	CODE	REF.NO.	PART NO.	* DESCRIPTION	CODE	REF.NO.	PART NO.	* DESCRIPTION	CODE
SW6	94R640101191	J Switch,Leaf Type [TAPE 2 A E FF/REW]	A A	230	MSPRD1170AFFJ	J Spring,Cassette Holder, Tape 2	A A		TLABZ1601AFSA	J Label,110V [For Australia]	A A
SW7	94R640101173	J Switch,Leaf Type [TAPE 2 A E Cassette1]	A A	231	MSPRD1179AFFJ	J Spring,Ground	A D		TLABZ1602AFSA	J Label,220V [For TAIWAN1]	A A
SW8	94R640101173	J Switch,Leaf Type [TAPE 2 A E CrO ₂]	A A	232	NBLTK0500AF00	J Packing,Rear Cabinet	A B		RRMCG0245AFSA	J Remote Control	A Y
SW9	94R640101173	J Switch,Leaf Type [TAPE 2 A E B-FPI]	A A	233	PC0VN1001AFSA	J Cover,Battery Hook	A A		95E103RRT15501	J Battery Lid,Remote Control	A G
SW10	94R640101173	J Switch,Leaf Type [TAPE 2 A E A-FPI]	A A	236	PGUMM0222AF00	J Leg Cushion	A B		P.W.B. ASSEMBLY (Not Replacement Item)		
SW11	94R640101173	J Switch,Leaf Type [TAPE 2 A E Metal]	A A	238	PRDAR0689AFZZ	J Heat Sink	A K	PWB-A	DCEKR0329AF12	J Tuner	—
CD MECHANISM PARTS				240	QANTR0201AFZZ	J Rod Antenna	A L	PWB-B	DCEKS0068AF09	J CD Servo	—
301	MSPRC0798AFZZ	J Spring,Rack	A A	242	QLUGP0109CEFW	J Lug Terminal,Antenna	A A	PWB-CI-10	DCEKL0749AF03	J Main/Power/CD Switch/Function Selector/Volume/Battery/Terminal (Combined Ass'y)	—
302	NGERH0381AFZZ	J Gear,Middle	A C	244	QFSDH2104AFZZ	J Fuse Holder	A A	PWB-D	DCEKU0137AF03	J Tape Deck	—
303	NGERH0382AFZZ	J Gear,Drive	A B	245	QCNWN5104AFZZ	J Connector Ass'y,18Pin	A G	PWB-E	—	Motor	—
304	NGERR0036AFZZ	J Gear,Rack,Fix	A B	246	QCNWN5111AFZZ	J Antenna Wire	A B	PWB-F	DCEKN0060AF03	J LCD	—
305	NGERR0037AFZZ	J Gear,Rack,Move	A B	247	M L i FP0082AFZZ	J Damper,CD	A F	PWB-G	94R18805387	J Tape 1 Mechanism	—
306	NSFTM0237AFFW	J Shaft,Guide	A C	248	HPNLH1377AFSA	J Panel,Cassette Holder Cover	A E	PWB-H	94R18805386	J Tape 2 Mechanism	—
307	PC0VP3207AFSA	J Cover,Mechanism	A D	249	LHLDW1068AFZZ	J Nylon Band,100mm	A A				
308	PCUSG0427AFSC	J Cushion	A C	250	LHLDW1075AFZZ	J Nylon Band,60mm	A A				
310	RCTRH8124AFZZ	J Pickup Unit	B H	255	PC0VP9210AFZZ	J Cover,Port	A A				
3 1 1	QPWBH0164AFZZ	J Flexible P W B	A F	256	GFTAT1140AFSA	J Lid,CD	A G				
701	LX-HZ0217AFDD	J Screw,φ2.6×8mm	A A	257	HPNLH1379AFSA	J Panel,CD Lid	A G				
702	XBPSD17P03000	J Screw,φ1.7×3mm	A A	258	JKNBZ 1283AFSA	J Button,CDEject	A B				
703	XBPSD26P06J00	J Screw,φ2.6×6mm	A A	259	MSPRD1171AFFJ	J Spring,CD Lid Up	A C				
M701	RM0TV0384AF00	J Motor with Gear	A P	260	JKNBZ1282AFSA	J Button,Function	A C				
M702	RM0TV0383AF02	J Motor with Gear	A R	261	MLEVP0950AFSA	J Lever,CD Lid Lock	A B				
CABINET PARTS				262	MSPRC0839AFFW	J Spring,Battery,-,"AA"Size	A B				
201	GCAB-174XAFSC	J Front Cabinet Ass'y	A Y	263	TSPC-2577AFSA	J Label,Specifications [For OTHER AREAS]	A C				
201-1	—	Front Cabinet [Not Replacement Item1]		263	TSPC-2588AFSA	J Lab&Specifications [For Australia]	A C				
201-2	HPNLH1376AFSA	J Panel,Remote Control Sensor	A D	601	LX-CZ0009AFZZ	J Screw,φ3×35mm	A A				
201-3	Hi NDP2189AFSB	J Indication Plate,AST	A B	602	LX-CZ0011AFZZ	J Screw,φ3×65mm	A A				
202	GCABC2503AFSA	J CD Cabinet	A N	604	XEBSD30P10J00	J Screw,φ3×10mm	A A				
203	GCABB2466AFSA	J Rear Cabinet	A W	605	XEBSD30P10000	J Screw,φ3×10mm	A A				
204	GC0VA1977AFSA	J Cover,Cassette Holder, Tape 1	A H	606	XEBSD30P12000	J Screw,φ3×12mm	A A				
205	GC0VA1940AFSC	J Cover,Cassette Holder, Tape 2	A H	607	XEBSD40P12000	J Screw,φ4×12mm	A A				
206	GFTAB1161AFSHJ	Lid,Battery Compartment	A F	608	XEBSF30P10000	J Screw,φ3×10mm	A A				
207	GFTAC1830AFSA	J Cassette Holder,Tape 1	A D	609	XEBSF30P12000	J Screw,φ3×12mm	A A				
208	GFTAC1831AFSA	J Cassette Holder,Tape 2	A D	611	XWHSO21-05065	J Washer,φ2.1×φ6.5×0.5mm	A B				
209	JHNDP1136AFSA	J Handle	A K	613	LX-HZ0105AFFF	J Screw,φ3×8mm	A A				
210	JKNBK0481AFSA	J Knob,Volume	A C	614	LX-HZ0087AFDD	J Screw,φ3×8mm	A A				
211	JKNBM1103AFSA	J Knob,Reverse Mode/Timer Record/FM Mode	A A	615	LX-CZ0105AFFD	J Screw,φ2.6×10mm	A A				
212	JKNBM1104AFSA	J Button,Power	A B	ACCESSORIES/PACKING PARTS							
213	JKNBZ1284AFSA	J Button,CD Operation	A D	QACCK0053AFZZ	J AC Power Supply Cord [For OTHER AREAS]		A L				
214	JKNBZ1285AFSA	J Button,Timer/Tuner Operation	A E	QACCL0059AF00	J AC Power Supply Cord [For Australia]		A L				
215	JKNBZ1286AFSA	J Button, Tape Operation	A E	QACCZ0062AF00	J AC Power Supply Cord [For TAIWAN]		A K				
217	LANGK0750AFFW	J Bracket,Front Cabinet	A B	SPAKA2231AFZZ	J Packing Add.		A G				
218	LANGQ1172AFFW	J Bracket,Tape Deck PWB	A C	SPAKA2232AFZZ	J Packing Add.		A G				
219	LHLDL1511AFSA	J Main Frame	A P	SPAKC5519AFZZ	J Packing Case		A L				
220	LHLDW3091AFZZ	J Wire Holder	A B	SPAKP1002AFZZ	J Polyethylene Bag		A E				
222	LHLDZ1448AF02	J Weight	A K	SPAKX2579AFZZ	J Pad,Protection		A C				
223	LHLDZ1483AFZZ	J LCD Holder	A C	SSAKH0005SEZZ	J Polyethylene Bag, Accessories		A A				
224	LSTY-0057AFZZ	J Spacer,PWB	A B	TCAUA0309AFZZ	J Caution Label,AC Power [For OTHER AREAS]		A A				
225	ML i FP0030AFZZ	J Damper,Cassette Holder	A E	TCAUZ0218AFSA	J Caution Label,Lens		A C				
226	MSPRC0853AFFJ	J Spring,Battery,+/-,"D" Size	A C	TGANE1204AFZZ	J Warranty Card [For Australia]		A C				
227	MSPRC0872AFFJ	J Spring,Battery,-,"D"Size	A B	TINSZ1203AFZZ	J Operation Manual		A M				
229	MSPRD1169AFFJ	J Spring,Cassette Holder, Tape 1	A A	TLABM0454AFSA	J Label Feature,Tape 1		A B				
				TLABM0455AFSA	J Label Feature,Tape 2		A B				
				TLABM0458AFSA	J Label,Feature,Handle		A D				
				TLABM0459AFSA	J Label,Feature,Speaker		A D				

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