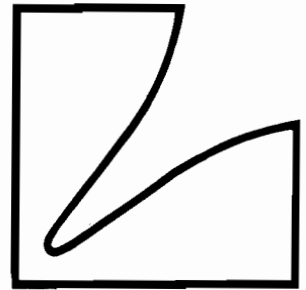
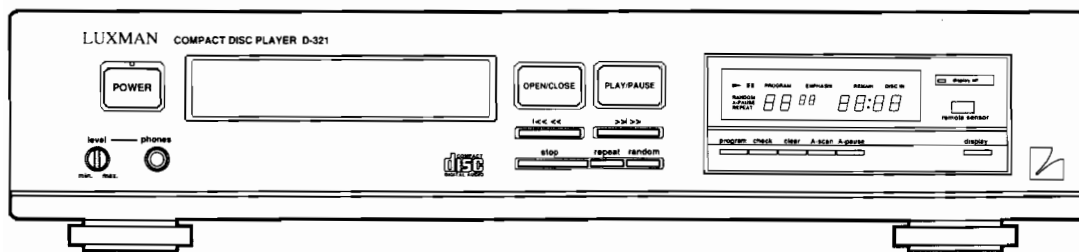


# SERVICE MANUAL



## Compact Disc Player **D-321**

- This model comes in 2 colors (Black and Champagne Gold). Refer to this Service manual for details.



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Spare Schematic Diagram Inserted.

# Specifications

## <CD SECTIONS>

System .....	Optical (Compact Disc System)
Quantizing Bit Number .....	16 bit linear
Channel .....	2 (Stereo)
Pickup .....	Semiconductor laser type
Distortion (at 1kHz) .....	0.01%
Frequency Response .....	5Hz to 20kHz : 0 ± 1.5dB
S/N Ratio .....	99dB
Separation .....	95dB
Dynamic Range .....	88dB

## <COMPACT DISC>

Track Pitch .....	1.6 $\mu$ m
Modulation Frequency .....	44.1kHz
Transfer Rate .....	43.218M bit/sec.
Dimension .....	80 / 120 × 1.2mm

## <GENERAL>

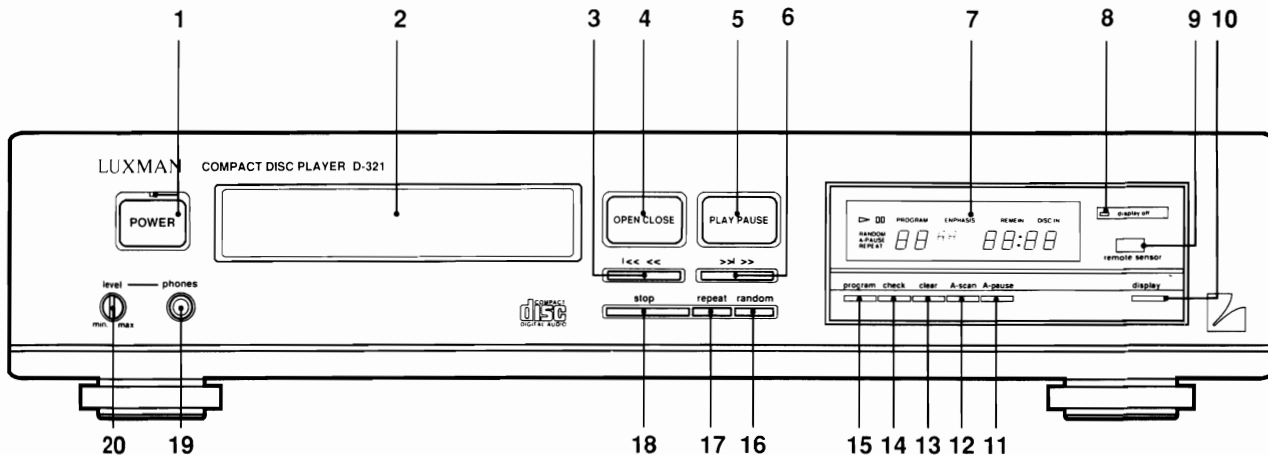
Power Supply .....	AC 120 / 220 / 240V, 50Hz (○, △, □) AC 120V, 60Hz (▲)
Output Voltage (at 1kHz, 0dB) .....	2V ± 1.5dB
Headphone Output Voltage (at 1kHz, 20dB / 8ohm) .....	38mV ± 1.5dB
Semiconductors .....	13 IC's, 16 Transistors, 30 Diodes, 1 Zener Diode (○, △, □) 13 IC's, 16 Transistors, 32 Diodes, 1 Zener Diode (▲)
Dimensions (W×H×D) .....	438 × 90 × 346mm
Weight .....	4.6kg

**Notes:** Due to continuing product improvement, specifications and designs are subject to change without notice.

- : For With Safety Regulations Version (Black Type) (AD),
- △ : For Without Safety Regulations Version (Black Type) (EK),
- : For With Safety Regulations Version (Champagne Gold Type) (AD),
- ▲ : For Canada Version (UQ), Others : Common.

# Names and Functions of Parts

## Front Panel



### 1. "POWER" button and indicator

Press "POWER" button to turn power on and off to the unit. The Operation indicator lights up when this button is depressed.

### 2. Disc Tray

Press the OPEN/CLOSE button (item #4) to open the Disc Tray. Place a disc on this tray, label side up. A light touch on the Tray, when open, will cause it to retrack back into the unit ready for play. Pressing Play/Pause (item #5), "A-scan" (item #12) and Direct Access Select (item #32) buttons on the remote control will also close the tray and cause the unit to go into immediate play operation.

### Note:

To use 8 cm (3 inch) single CDs, place them on the inner circular recessed area marked "8 cm disc" on the tray.

### 3. Backward Skip/Scan button (◀◀/◀)

Pressing this button for longer than 0.5 seconds will activate the backward scan mode. To more than double the scan speed, press this button in the pause mode.

Pressing this button and releasing it immediately will cause return to the beginning of the current selection; a second immediate push will cause a skip to the preceding selection.

When the pickup comes to the first selection, the next push will cause it to go to the beginning of the last selection on the disc.

### 4. "OPEN/CLOSE" button (⏏)

Press to open or close the Disc Tray. (See also item #2.)

### 5. PLAY/PAUSE button (▶/⏸)

When pressed in the stop or pause mode, playback will begin.

When pressed during playback, the player will go into the pause mode.

### 6. Forward Skip/Scan button (▶▶/▶)

Pressing this button for longer than 0.5 seconds will activate the forward scan mode. To more than double the scan speed, press this button in the pause mode.

Pressing this button and releasing it immediately will cause the player to skip forward, one selection (track) at a time for each successive push. When the player comes to the last selection, the next push will return the pickup to the first selection.

### 7. Display

Track, index, time, etc. are all simultaneously shown in this Display. Refer to page 11 and Operation Guidelines for details.

**8. "display off" indicator**

Lights up when the display is turned off with the "display" button (item #10).

**9. Remote Sensor**

When using the hand held remote control, it must be pointed toward this sensor to activate operational functions.

**10. "display" button**

Each push of this button selects one of 2 disc timing displays and will turn off display as follows:

- "REMAIN" OFF  
Time elapsed since beginning of current track. This occurs with "REMAIN" indicator OFF.
- "REMAIN"  
Play time remaining on entire disc. This occurs with "REMAIN" indicator ON.

**Note:**

When in programmed play mode, the remaining time displayed will be that of the selections programmed, not the entire disc.

**11. "A-pause" (auto-pause) button**

Pressing this button will cause the machine to activate Pause automatically at the end of any currently playing track.

To resume play, press the Play button.

While the auto pause function is activated, "A-pause" will show in the display.

**12. "A-scan" (auto-scan) button**

When pressed, "A-Scan" begins and the track number digit(s) in the display flash continuously. The first 10 seconds of each track on the disc will be automatically played, beginning at track #1. If in programmed mode, pressing this button will scan each track in the program, beginning with the first selection programmed.

**13. "clear" button**

This function allows track by track clearing, in sequence, of any programmed track, beginning with the last track programmed. With each push of this button, the next track to be cleared will appear under "PROGRAM" in the display. The program sequence number appears just to the right of the "PROGRAM" track number.

**Note:**

Clear operates only in the stop mode.

**14. "check" button**

Use this button to check the order of the selections that have been programmed. With each successive push of this button, the track numbers that have been programmed will be shown to the left and the programmed order to the right, in the track display area (the time portion of the display will turn off).

**Note:**

The "check" operates only in the stop mode.

**15. "program" button**

Use this button in conjunction with the Skip up/down buttons (items #3, 6), or any Direct Access Select button (item #32) on the remote control, to program up to 32 track selections in any random order. To clear program contents, press Stop button (item #18) in the stop mode.

**16. "random" button**

Use this button to automatically change the order of tracks to be played at random. During random play operation, "RANDOM" appears in the display.

**17. "repeat" button**

In normal play, random play or A-scan mode, press this button to repeat all tracks on a disc.

**18. Stop button (■)**

One press of this button will stop playback and return the pickup to the beginning of the disc. A second push will clear (reset) all memory contents.

**Note:**

The total number of tracks and the total playing time on the disc will always show on the display in the STOP mode.

**19. "phones" jack**

For private listening or monitoring with stereo headphones.

**20. "phones-level" control**

Adjusts the output level of the phones jack (item #19).

**Display****22. "PROGRAM" indicator**

Lights up in programmed play mode.

**21. "▶||" (Play/Pause) indicator**

▶ Lights up during normal, random, A-scan or programmed play mode.  
 ▶|| Blinks during programming process.  
 ▶|| Lights up during pause mode

**31. "RANDOM" indicator**

Lights up in random play mode.

**30. "A-PAUSE" indicator**

Lights up in auto pause mode.

**29. "REPEAT" indicator**

Lights up in repeat play mode

**28. Track Number indicator**

Indicates the selection (track) number recorded on the disc. Blinks during auto scan mode.

**23. "EMPHASIS" indicator**

Lights up when a track has been recorded with emphasis.

**24. "REMAIN" indicator**

Lights up when "Remain" is selected by the "display" button.

**25. "DISC IN" indicator**

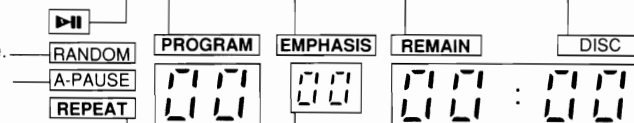
Lights up when a disc is loaded.

**26. Time indicator**

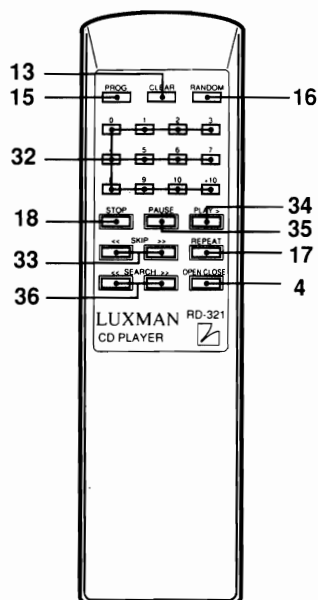
Usually indicates the elapsed time from the beginning of the current selection.  
 When the REMAIN indicator is lit, total remaining time on the disc is indicated.  
 In programmed play mode, total remaining time of the selections programmed is indicated.

**27. Program sequence number or Index Number indicator**

Usually indicates the index number recorded on the disc.  
 During programmed play or program check, the number of the programmed play order is indicated.



## Remote Control Unit



### 32. Direct Access select buttons

Use for programming or immediate play of any track from 1 to 99.

### 33. "SKIP" buttons (◀◀, ▶▶)

These buttons allow the player to "skip" forward or backward over any selection (track) in one selection increments.

Pressing the ◀◀ button once will cause return to the beginning of the current selection; a second immediate push will cause a skip back to the preceding selection.

When the pickup comes to the first selection, the next push will cause it to go to the beginning of the last selection on the disc.

Pressing the ▶▶ button will cause the player to skip forward, one selection at a time for each successive push.

When the player comes to the last selection, the next push will return the pickup to the first selection.

### 34. "PLAY" button (▶)

Press the "PLAY" button when loading a disc for immediate playback beginning at track 1 and for starting a programmed or random sequence.

### 35. "PAUSE" button (⏸)

Press this button to temporarily cease playback or to cue up a track or segment for recording etc. To resume playback, press the "PAUSE" button again or press the "PLAY" button.

### 36. SEARCH (Scan) buttons (◀◀, ▶▶)

When pressed, these buttons provide fast forward or backward scan within a track (music) selection.

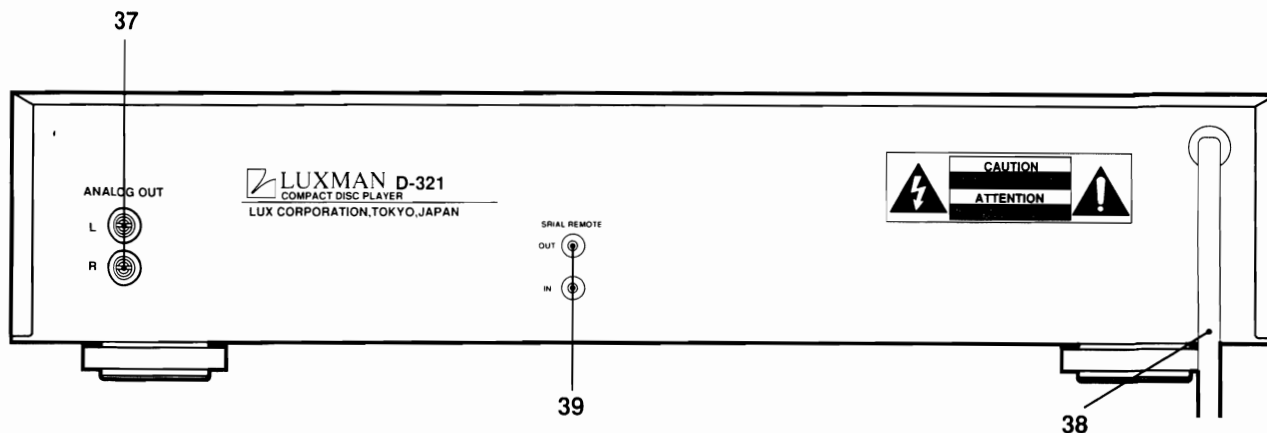
---

#### Note:

Operation is the same as for the buttons on the set.

---

## Rear Panel

**37. "ANALOG OUT" jacks**

For connection to the CD inputs of any amplifier or receiver. The output level is 2 volts fixed, referenced to 0 dB recording level.

**Note:**

Turn the power off before connecting these jacks.

**38. AC Power Cord**

Insert the AC plug of the D-321 into an appropriate wall outlet.

**39. "SERIAL REMOTE IN and OUT" jacks**

Use these jacks for simple and convenient connections to other Luxman components for remote control operation.

Connect these "SERIAL REMOTE IN" and "OUT" jacks to the "SERIAL REMOTE OUT" and "IN" jacks, respectively, on other Luxman components (in a daisy chain fashion), for a unified remote control system. See Connection Guidelines.

**Notes:**

Turn off the power before connecting these jacks. These jacks are available on the Canadian models only.



## Connection Guidelines

### Before Making Connections

It is always wise to ensure that all AC power cords of the various components that you are interconnecting are unplugged from the wall outlets during the hook-up process. This will prevent any inadvertent damage to your speakers or amplifier from incorrect control settings or connections.

### Connection of the Output Jacks

- Connect "ANALOG OUT" jacks to the CD input jacks of your integrated amplifier or receiver with the supplied phono type patch cords.

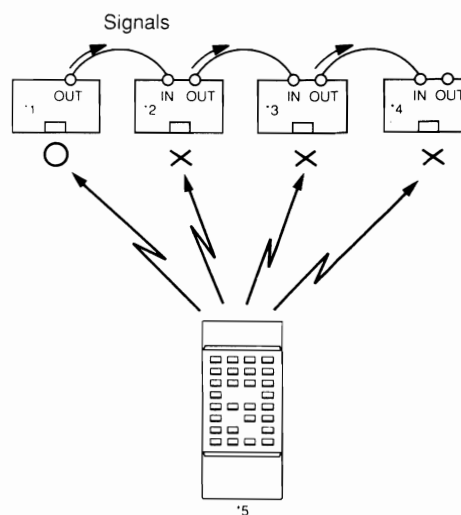
When connecting, be sure that left and right channel identification is correct. The patch cords are colour coded with Red ends for right channel and Black or White ends for the left channel, to make this job easier.

### AC Power Supply Cord

Insert the AC plug into an appropriate wall outlet.

### Connection of the Serial Remote IN/OUT Jacks (only Canadian Model)

"DAISY CHAIN" SERIAL REMOTE INTERCONNECTING LEADS



- "Daisy Chain" Serial Connections (see above).
  - O: Remote operation possible (for all units connected).
  - X: Direct remote operation not possible
  - \*1: Remote control centre (R-117, R-115, etc.)
  - \*2: D-321
  - \*3: Tape deck (Future product)
  - \*4: Tuner
  - \*5: RR-117, RR-351, RR-341

Components 2, 3 and 4 can be connected in any order.

---

#### Note:

Turn the power off before connecting these jacks.

---

## Operation Guidelines

The following guidelines assume that all connections have been made according to the "Reference Illustrations,".

### Initial Set-Up

Make sure all connections are securely made. Turn the volume of the amplifier fully down and turn the power on to all the components in use. Adjust the volume of the amplifier to a suitable level just prior to playback.

Push the "open/close" button (item #4) on the D-321 and set a disc on the disc tray, label surface up.

#### Note:

To use 8 cm (3 inch) single CDs, place them on the inner circular recessed area marked "8 cm disc" on the tray.

### Normal Play

1. After the disc is loaded, press the Play/Pause button (item #5).
2. Playback will begin from the first track number, continuing on through the remaining tracks.
3. Playback automatically stops after the last track on the disc is played (unless in the repeat mode).

#### Note:

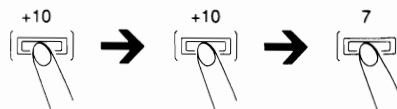
The word "**EMPHASIS**" will light up in the display if a disc or track has been recorded with pre-emphasis. This is a standard CD noise reduction system sometimes used by the disc manufacturer. The D-321 automatically switches in the standard deemphasis circuit when this occurs and requires no action on the part of the user.

### Direct Track Access

- Direct access operation is available on the Remote Control unit only. (Not available on the main unit.)
1. Use the Direct Access Select buttons (item #32) to specify a desired track.
  2. The selected track number will appear on the display and playback will begin immediately.
  3. Playback will stop automatically after the last track is played (unless in the repeat mode).

#### Example:

For Direct Access to the 27th selection.



### Random Play

If desired, activating this function will allow the computer in the unit to select tracks, in a completely random manner, for playback. While the selection is random, it does not repeat any given track. Rather, it plays each randomly selected track once, shutting off automatically after all tracks are played. If the REPEAT function is also selected, then the unit will continuously replay all tracks but in a completely different order each time.

1. Press the "random" button (item #16) and "RANDOM" will light up on the display.

**Note:**

When random is pressed, it will cancel any programmed tracks.

2. Press the Play/Pause button (item #5).
3. When playback of the last track completes with the "REPEAT" not lit on the display, the unit enters the stop mode.
4. To cancel the random function, press the "random" button. The "RANDOM" indicator will turn off.

### Repeat Play

1. When the "repeat" button (item #17) is pressed during normal or random playback, all tracks on the disc will be repeated continuously.

If the "repeat" button is pressed during programmed playback, all programmed tracks will be repeated continuously.

2. Pressing the "repeat" button a second time, will cancel the repeat function.

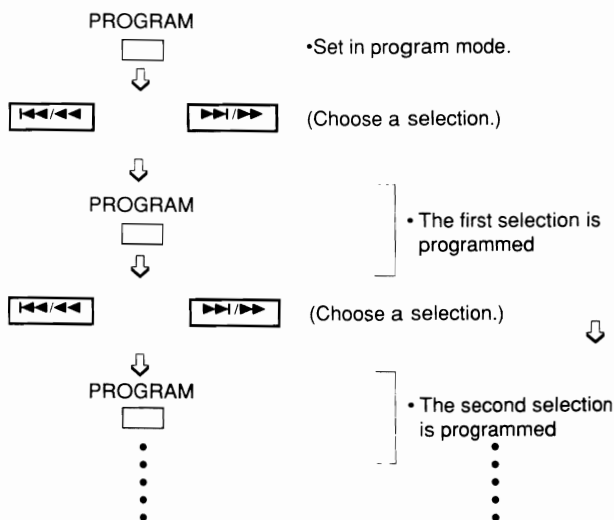
### Programmed Play Operations

#### Programming

1. Press the "program" button (item #15) in stop mode to enter the program mode.
2. Choose the selection to be programmed by pressing the Forward Skip button (item #6), the Backward Skip button (item #3) or any Direct Access Select button (item #32) on the remote.
3. Press the "program" button after each selection, except when using the Direct Access Select buttons on the remote. Track numbers may be entered directly, one after the other, when using the remote. See (Direct Track Access), page 12 for instructions on entering numbers above 10. Also, "--" indication will appear on the display, instead of numbers, if more than 99 minutes and 59 seconds (99:59) of total remaining time has been accumulated in a programmed sequence. (This does not indicate a malfunction.)

**Note:**

If more than 32 selections are chosen, "FULL" will be displayed on the Display for about 4 seconds, showing that no more selections can be added to the program.



4. Press the Play/Pause button (item #5), and the selections are played back in the programmed order.

## Program Check

The programmed track numbers and the order they were placed in memory can be checked.

1. Press the "check" button (item #14) with the unit in stop mode.
2. With each successive push of the "check" button, the programmed track numbers will be shown on the display in the order of playback.

---

### Note:

When the "check" button is continuously pressed, the memory check function will operate automatically, showing the track numbers to the left and order of playback to the right in the display.

When the check operation completes, it will stop on the last track programmed. If the button is held down, it will scan the memory again.

---

## Clearing Programmes

1. Select the specific track you wish to clear with the "check" button (item #14). Then press the "clear" button (item #13).

---

### Note:

If you do not use the "check" button, clearing will begin with the last track programmed and continue with each successive push of the "clear" button.

---

2. To clear the entire program, press the Stop button (item #18) twice.

## Timer Play

With the use of an external AC power timer, the D-321 can be made to turn on and go into automatic play at any desired time.

---

### Note:

The AC power plugs of the components used for timed playback must be connected to the AC outlets of the timer.

---

1. Be sure the "POWER" button (item #1) is depressed on the D-321 and load a compact disc.
2. Set the playback start time and end time with the external timer. Also properly set all controls on each component used in the system for timer play as necessary.
3. Make sure the power switches on all other components used in the system for timer play operation are switched to their ON positions.
4. Set the timer to the desired start and stop times. When the power is turned on by the timer, the D-321 will start playback and the entire system will operate as previously set.

## Remote Operations

For reliable operation, use the hand-held remote within the basic dimensional area.

## Battery Replacement

1. Open the battery compartment cover on the rear of the remote control unit. The cover should open easily if you press on the tab with your thumbnail and lift up.
2. Place two "AA" size dry batteries in the battery compartment in accordance with the diagram in the compartment, then replace the cover.

Incorrect use of batteries may lead to leakage or rupture. Be sure to follow these guidelines:

- A. Always insert batteries into the battery compartment correctly matching the positive (+) and negative (-) polarities as shown in the diagram inside the compartment.
- B. Never mix new and used batteries together.
- C. Both rechargeable and non-rechargeable batteries are available. Be sure to use your batteries in accordance with the instructions provided on the cells.

# Disassembly Instruction

## 1. Removal of the CD Mechanism

- (1) After removal of the Top Cover, remove three screws marked "○" as shown in Figure 1.
- (2) Disconnect all wires from the CD Mechanism.

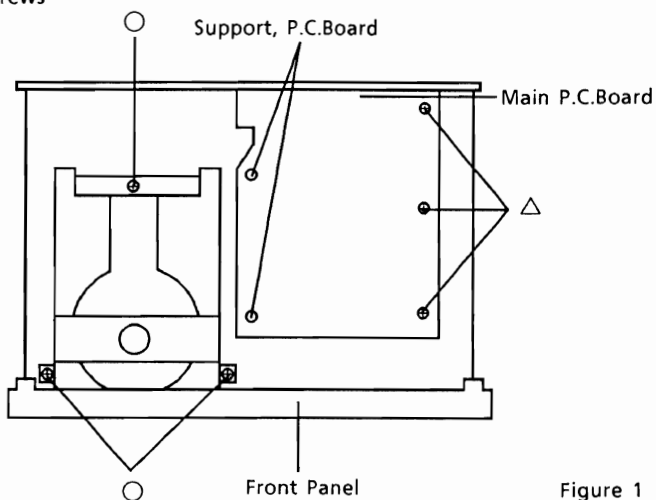


Figure 1

## 2. Removal of the Front P.C.Board

- (1) After removal of the Front Panel, remove seven screws marked "x" as shown in Figure 2.
- (2) Disconnect all connectors from the Front P.C.Board.

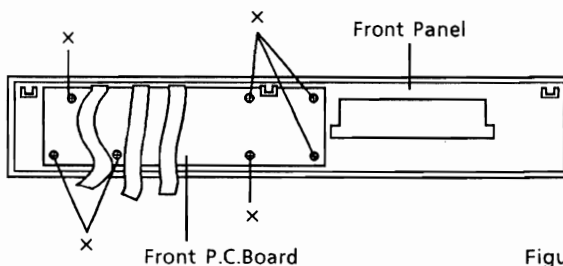


Figure 2

## 3. Removal of the Main P.C.Board

- (1) After removal of the Top Cover, remove five screws marked "△" as shown in Figures 1 and 4.
- (2) Remove two supports, P.C.Board from the Main P.C.Board as shown in Figure 1, by pushing the point "A" as shown in Figure 3.
- (3) Disconnect all connectors from the Main P.C.Board.

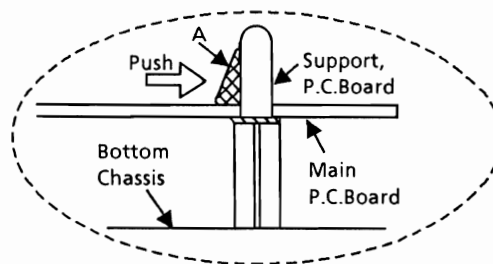


Figure 3

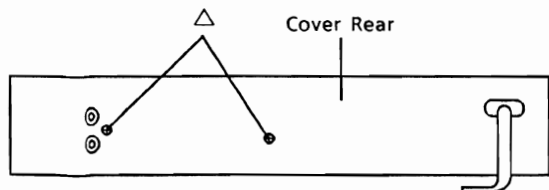
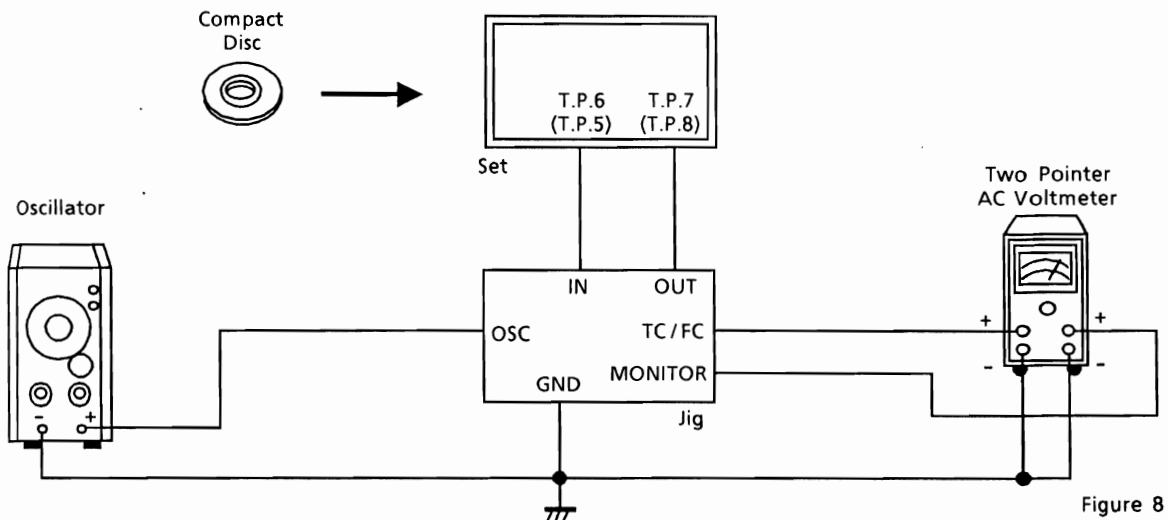
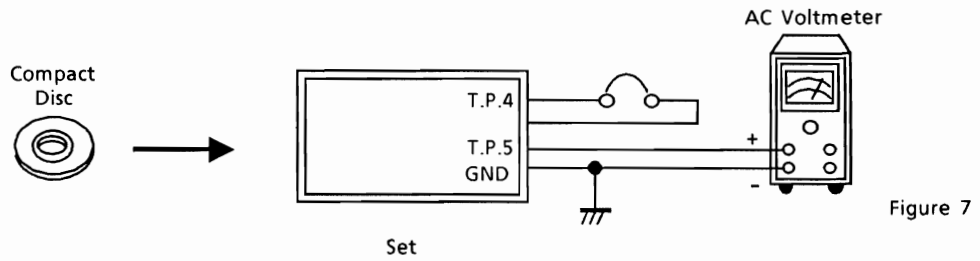
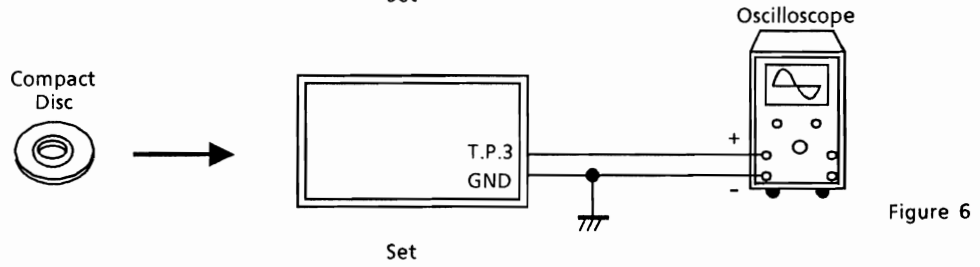
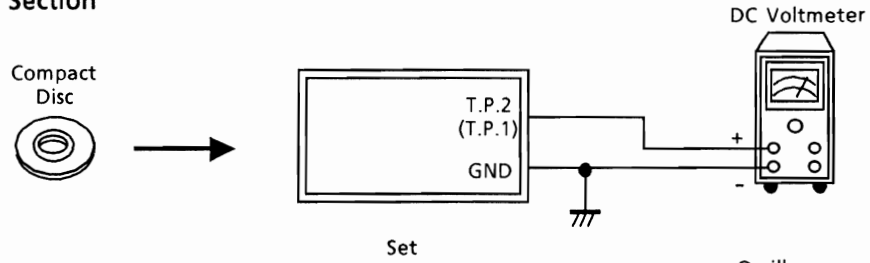


Figure 4

# Adjustment Procedures

## 1. Compact Disc Section

(1) Connections



Note : Jig No. 01E05114S01

## (2) Control Settings

Power Switch ..... ON  
 Play Switch ..... ON  
 Others ..... OFF

## (3) Test CD

Tracking Error Balance Adjustment ..... SONY YEDS-18 (TNO. 7)  
 A-BEX TCD-782 (TNO. 8)  
 Others Adjustment ..... SONY YEDS-18 (TNO. 2)  
 A-BEX TCD-782 (TNO. 2)

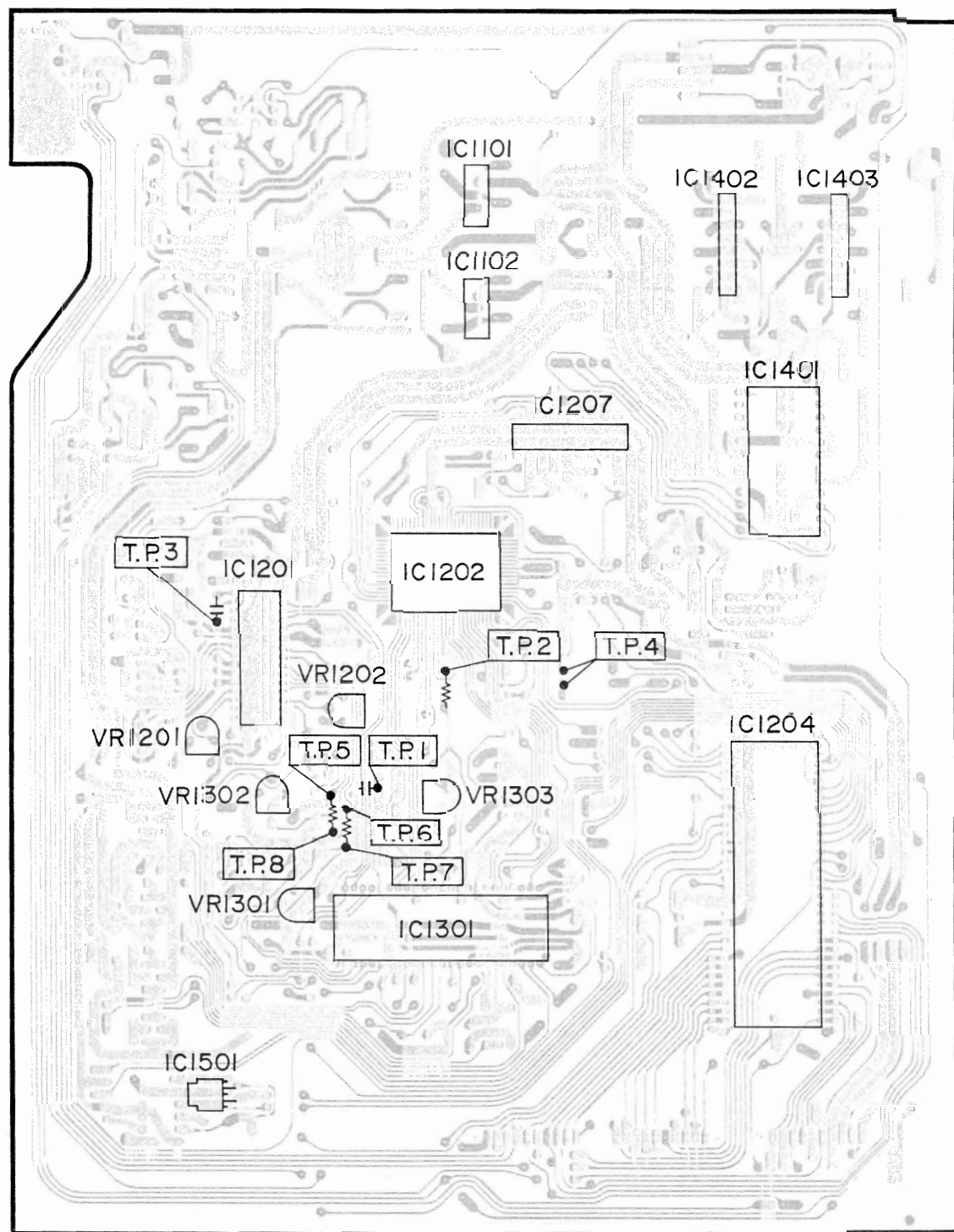
## (4) Adjustment Procedures

Step	Description	Connections	Oscillator	Test Point	Adjustment
1	VCO Adjustment	Figure 5	-	T.P.1 T.P.2	Measure the voltage at the T.P.1. Then adjust VR1303 so that the output voltage at the T.P.2 becomes 1/2 of the voltage at the T.P.1.
2	Focus Bias Adjustment	Figure 6	-	T.P.3	Adjust VR1202 so that the waveform of oscilloscope becomes maximum as shown in Figure 9.
3	Tracking Error Balance Adjustment	Figure 7	-	T.P.4 T.P.5	After shortcircuiting T.P.4 and turning VR1301 fully counterclockwise, adjust VR1201 so that the voltage is 0 to 10mV. After the adjustment set VR1301 to it's center position.
4	Tracking Gain Adjustment	Figure 8	1kHz 100mV	T.P.6 T.P.7	Adjust VR1301 so that both arms of the voltmeter come at the same position.
5	Focus Gain Adjustment	Figure 8	1kHz 100mV	T.P.5 T.P.8	Adjust VR1302 so that both arms of the voltmeter come at the same position.

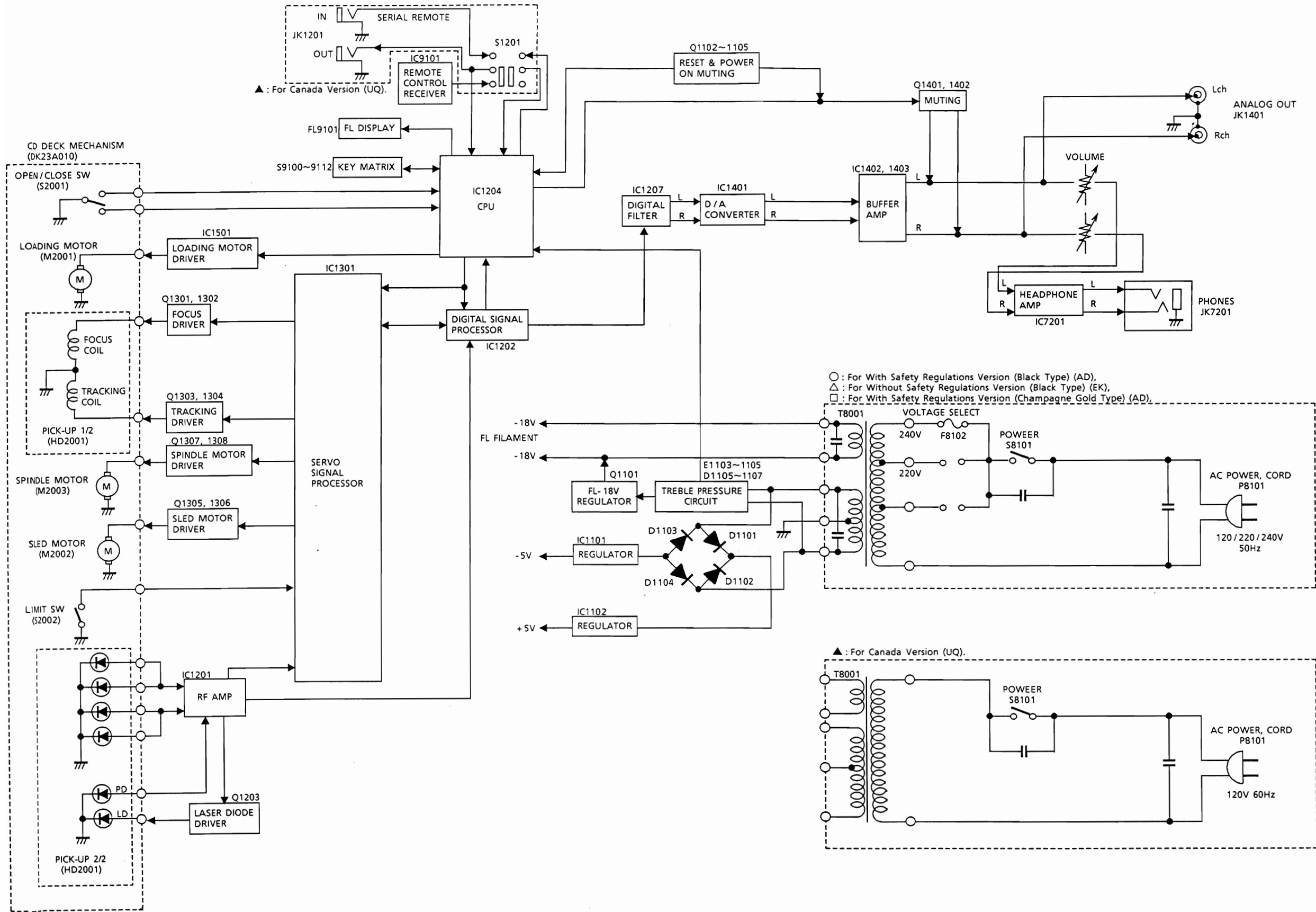
Figure 9



# Adjustment Location



# Block Diagram



# Parts Layout on P.C. Boards and Wiring Diagram

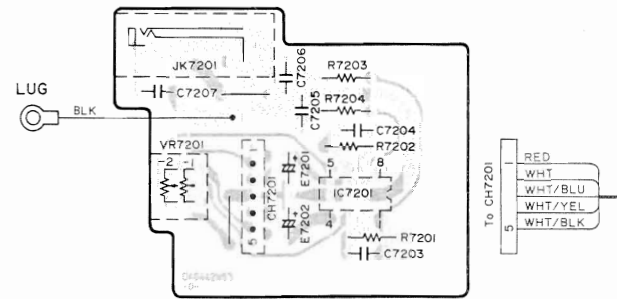
All P.C. Boards viewed from foil side.

1  
2  
3  
4  
5

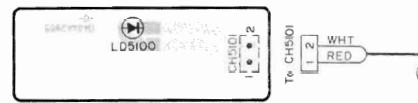
### Notes

- : For With Safety Regulations Version (Black Type)(AD)
- △ : For Without Safety Regulations Version (Black Type)(EK)
- : For With Safety Regulations Version (Champagne Gold Type)(AD)
- ▲ : For Canada Version (UQ)
- Others : Common

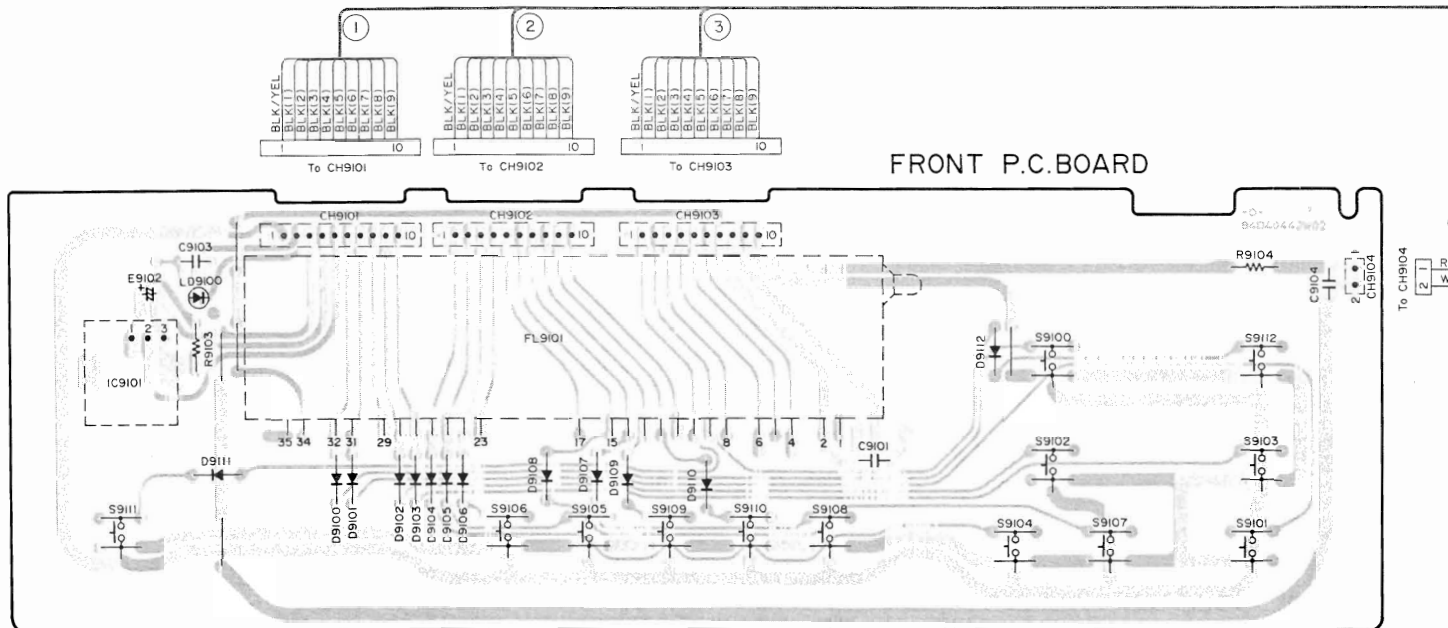
### HEAD PHONE P.C.BOARD



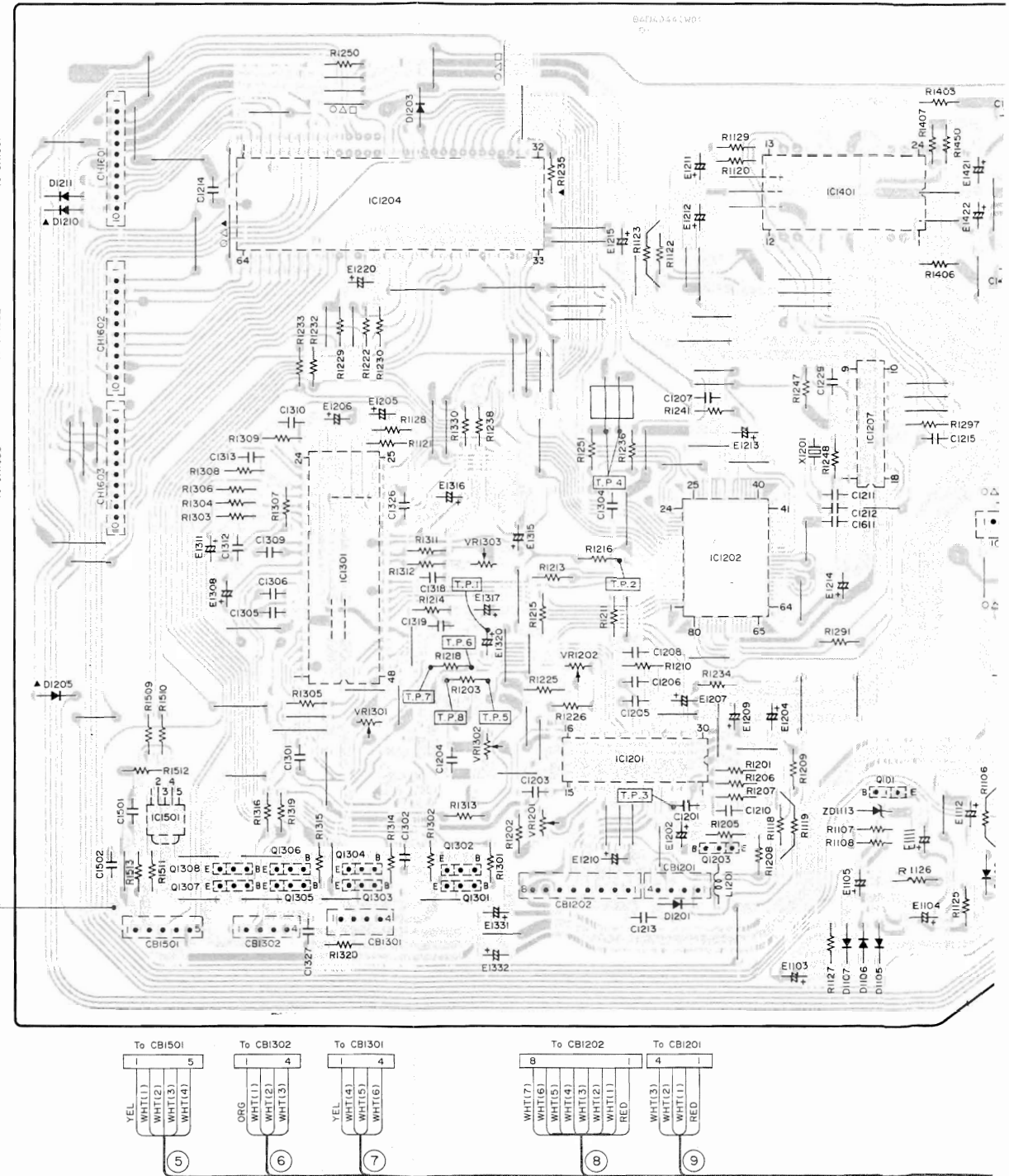
### LED P.C. BOARD



### FRONT P.C. BOARD

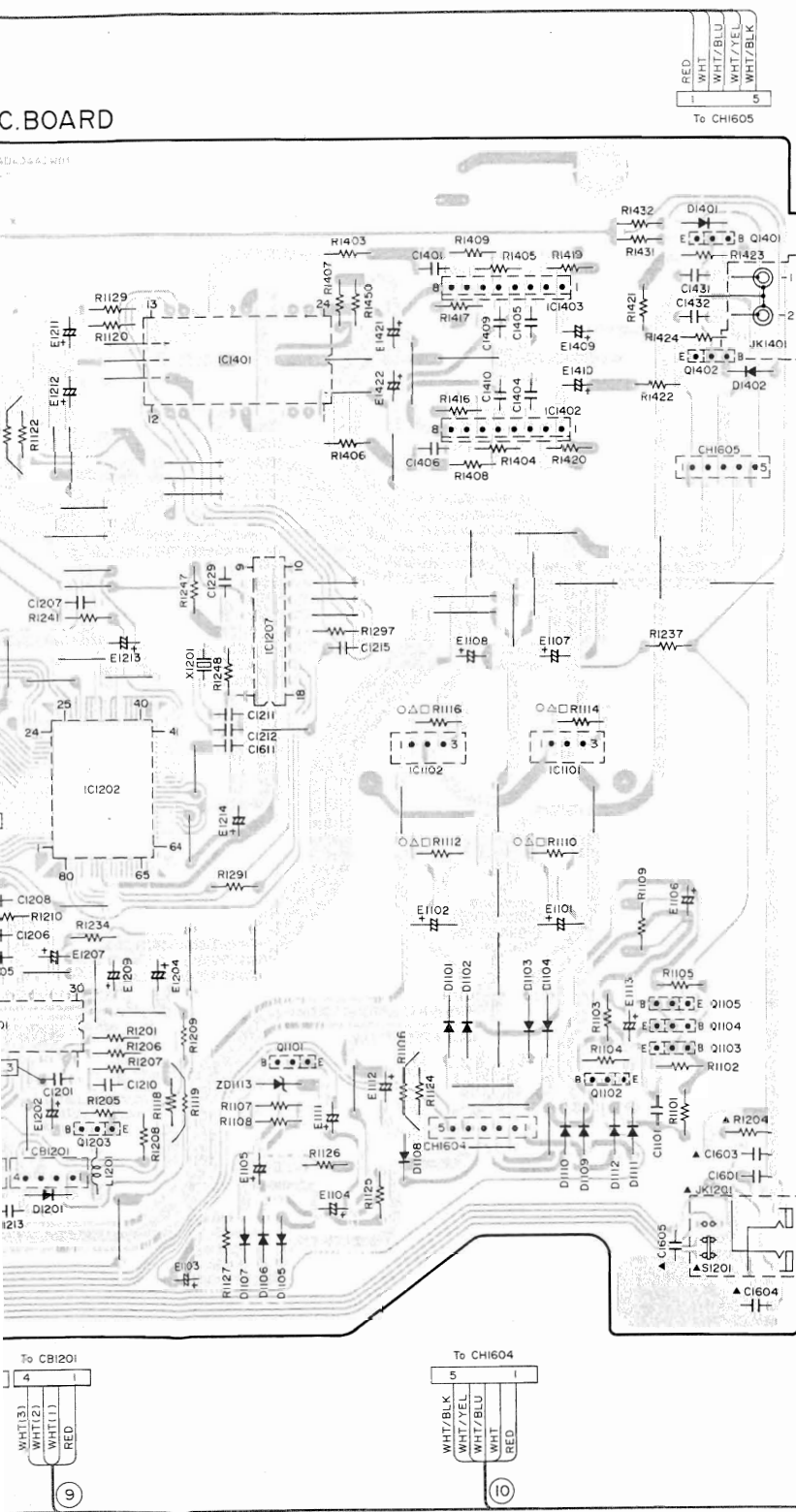


### MAIN P.C. BOARD

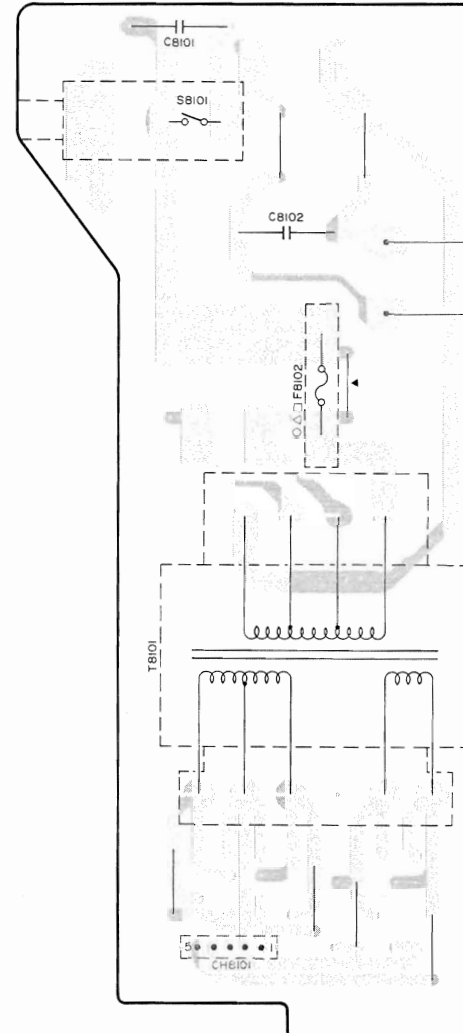


A | B | C | D | E | F | G | H

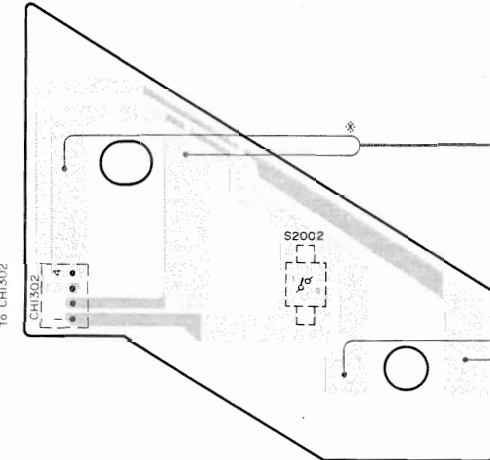
Blue Pattern: Foil Side Pattern.



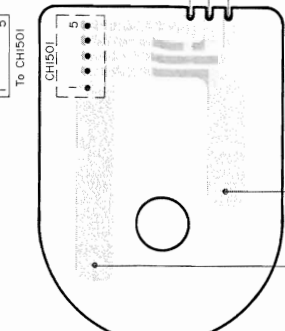
**POWER SWITCH P.C. BOARD**



**MOTOR (2) P.C. BOARD**



**MOTOR (1) P.C. BOARD**



AC POWER CORD (PBI01)

AC POWER CORD (PBI01)

SLED MOTOR (M2002)

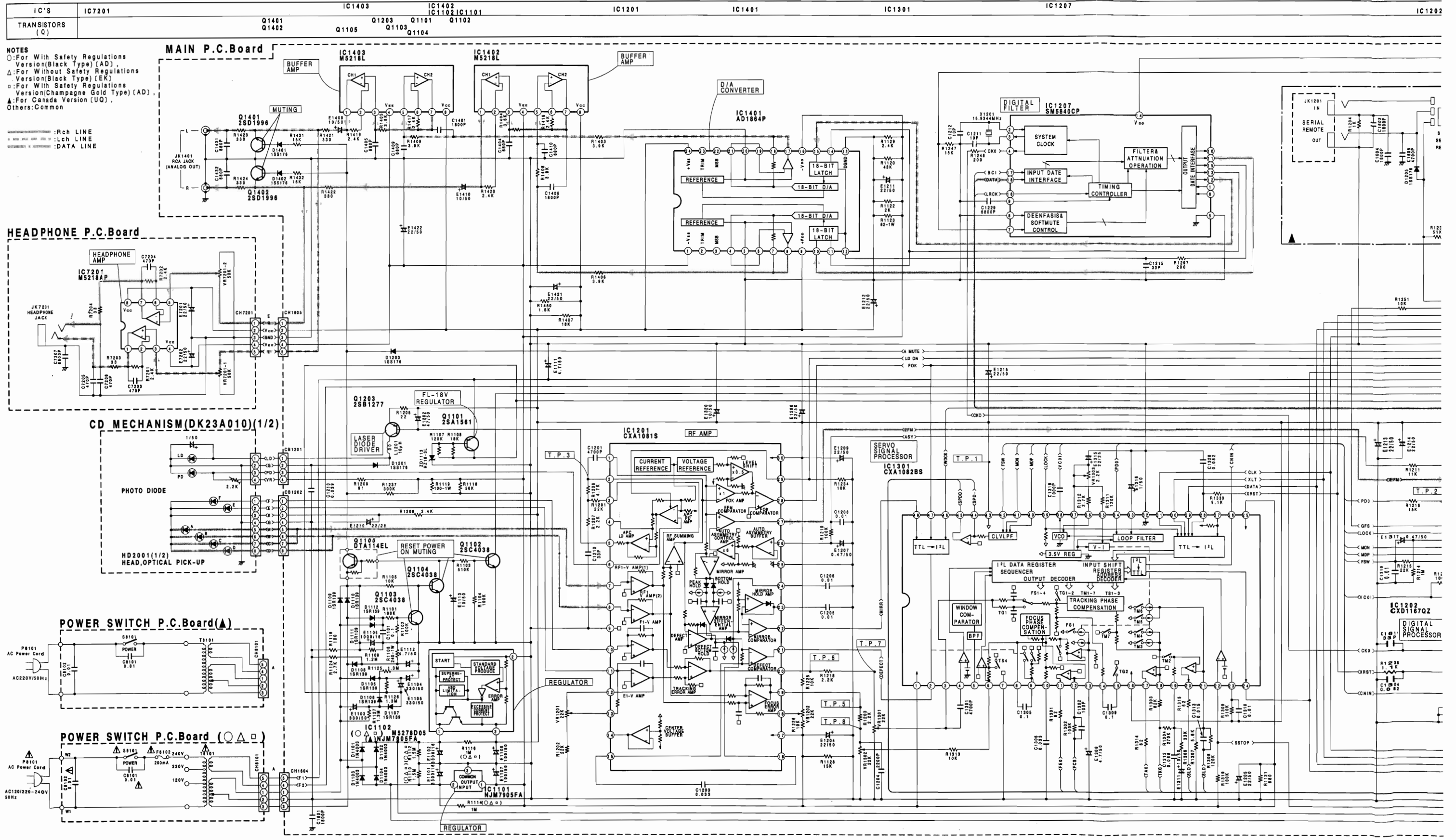
SPINDLE MOTOR (M2003)

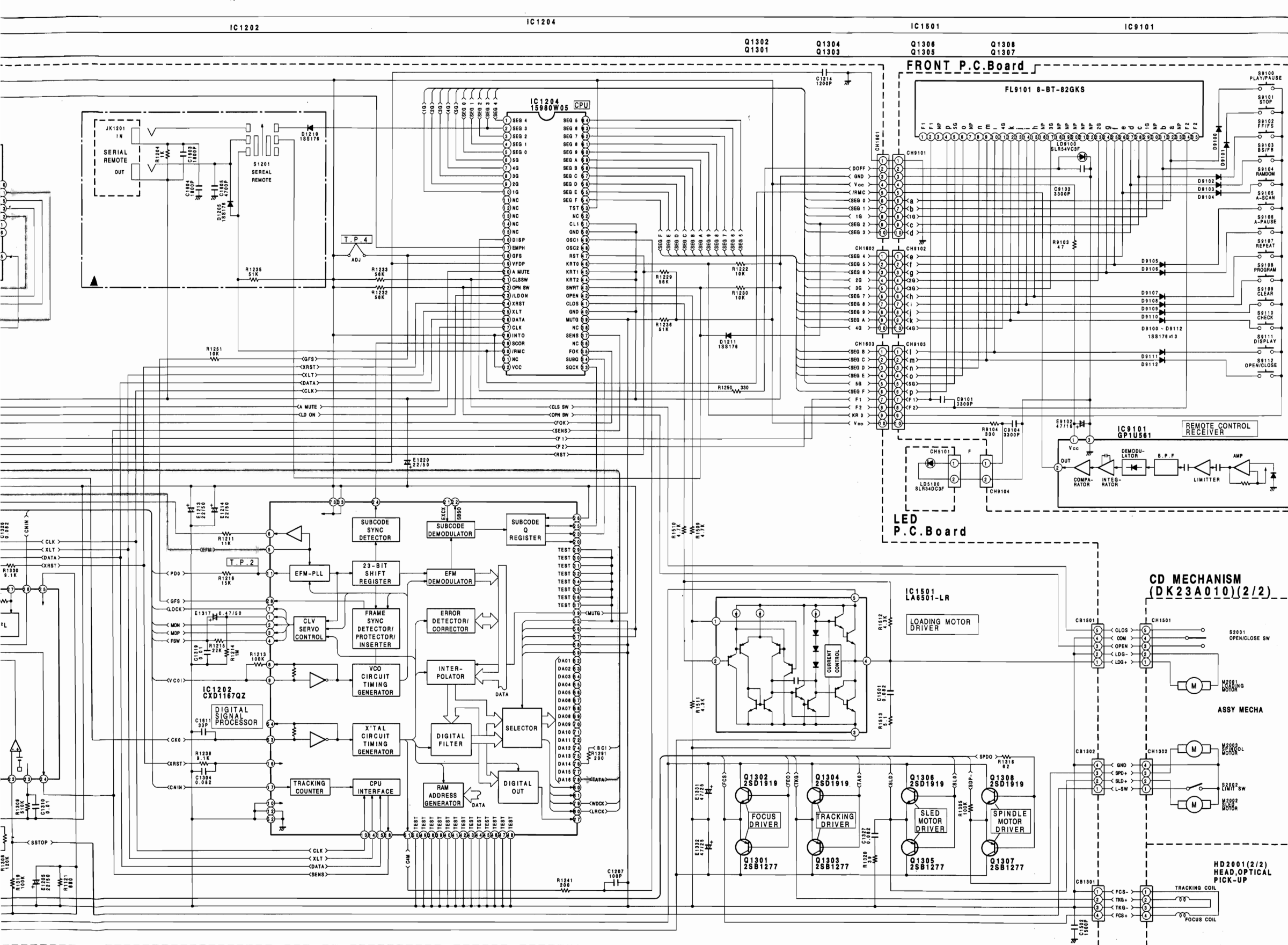
OPEN/CLOSE SWITCH (S2001)

LOADING MOTOR (M2001)

HEAD, OPTICAL PICK-UP (HD2001)

# Schematic Diagram





**NOTE**  
 1. All resistance values are in ohms. K=1,000 M=1,000,000  
 2. All capacitance values are in microfarads. P= 1/1,000,000

**Voltage Measuring Conditions**  
 1. Power Supply Voltage : AC220V, 50Hz (Δ, □)  
 AC120V, 60Hz (▲)  
 2. Measuring Meter : Digital Multimeter  
 3. Measuring Point Reference : Between Ground  
 4. Measuring Conditions : No Sound Track (Play)

IC1201		IC1202	
1	0V	1	0.1V
2	1.1V	2	5V
3	0V	3	2.5V
4	3.2V	4	2.8V
5	4.9V	5	2.4V
6	0V	6	2.5V
7	0V	7	5V
8	0V	8	2.4V
9	0V	9	2.3V
10	0V	10	0V
11	0V	11	2.1V
12	-0.6V	12	0V
13	-0.4V	13	5V
14	0V	14	5V
15	-2.2V	15	0V
16	5V	16	5V
17	0.4V	17	0.1V
18	5V	18	5V
19	2.4V	19	0V
20	2.5V	20	4.0V

IC1401		IC1301		IC1207	
1	-5V	1	-5V	1	2.4V
2	-4.3V	2	-4.3V	2	2.6V
3	0V	3	0V	3	2.4V
4	0V	4	0V	4	2.4V
5	0V	5	0V	5	0V
6	0V	6	0V	6	0V
7	0V	7	0V	7	0.1V
8	0V	8	0V	8	0V
9	5V	9	0V	9	4.8V
10	1.8V	10	0V	10	0V
11	3.7V	11	0V	11	1.8V
12	1.5V	12	0V	12	1.8V
13	0V	13	0.5V	13	3.7V
14	3.7V	14	0V	14	5V
15	1.8V	15	0V	15	1.4V
16	-5V	16	5V	16	2.5V
17	0V	17	0V	17	2.5V
18	0V	18	0V	18	2.4V
19	0V	19	0V	19	5V
20	0V	20	0V	20	0V
21	0V	21	0V	21	0.8V
22	-5V	22	-5V	22	2.5V
23	-5V	23	-4.1V	23	5V
24	-5V	24	5V	24	4.8V

IC1204		IC1402		IC1403		IC201	
1	-29V	33	4.9V	1	0V	0V	0V
2	-14.5V	34	1V	2	0V	0V	0.8V
3	18V	35	5V	3	0V	0V	0.8V
4	14.6V	36	5V	4	-5V	-5V	0V
5	-19.1V	37	5V	5	0V	0V	0V
6	-30.4V	38	0V	6	0V	0V	0V
7	-30.4V	39	0V	7	0V	0V	0V
8	-30.3V	40	0V	8	0V	0V	0V
9	-30.3V	41	0V	9	0V	0V	0V
10	-30.2V	42	0V	10	0V	0V	0V
11	0V	43	2V	11	0V	0V	0V
12	0V	44	0V	12	0V	0V	0V
13	0V	45	0V	13	0V	0V	0V
14	0V	46	0V	14	0V	0V	0V
15	0V	47	0V	15	0V	0V	0V
16	0V	48	0V	16	0V	0V	0V
17	0.1V	49	2.3V	17	0V	0V	0V
18	5V	50	0V	18	0V	0V	0V
19	-32.8V	51	0V	19	0V	0V	0V
20	-4.7V	52	0V	20	0V	0V	0V
21	0V	53	5V	21	0V	0V	0V
22	5V	54	-32.6V	22	0V	0V	0V
23	0.4V	55	-28V	23	0V	0V	0V
24	5V	56	-32.4V	24	0V	0V	0V
25	5V	57	-27.8V	25	0V	0V	0V
26	0V	58	-25.4V	26	0V	0V	0V
27	5V	59	-29.4V	27	0V	0V	0V
28	5V	60	-21.3V	28	0V	0V	0V
29	0V	61	-16.8V	29	0V	0V	0V
30	4.9V	62	-19V	30	0V	0V	0V
31	0V	63	-27.7V	31	0V	0V	0V
32	5V	64	-30.1V	32	0V	0V	0V

IC1501		IC1101		IC1102		IC9101	
1	0V	1	0V	1	10.7V	1	5V
2	0V	2	-11.1V	2	0V	2	4.9V
3	0V	3	0V	3	5V	3	0V
4	0V						
5	10.7V						

# Electrical Parts List

Resistor : Carbon resistors under 1/4 watts are not mentioned in the parts list, please confirm them by schematic diagram.

Capacitor :  $\mu\text{F}$  = microfarads, pF = picofarads

Abbreviations				Symbol No.	Part No.	Description
RES. = Resistor	CAP. = Capacitor			Q1402	48T90183F01	2SD1996
C.F. = Carbon Film	ELY. = Electrolytic					
M.F. = Metal Film	CER. = Ceramic					
M.O. = Metal Oxide Film	MYL. = Mylar					
M.P. = Metal Plate	TAN. = Tantalum					
TR. = Transistor	POLY. = Polystyrol					
TRANS. = Transformer	PP. = Polypropylene					
CP. = Chip	PLT. = Polyethylene					
	PF. = Polyester Film					
Symbol No.	Part No.	Description		<b>Diodes</b>		
<b>Main P. C. Board</b>				<b>IC's</b>		
	IC1101	51T80339F01	NJM7905FA	D1101	48S40477U01	1N4003
○	IC1102	51T35010W01	M5278D05	D1102	48S40477U01	1N4003
△	IC1102	51T35010W01	M5278D05	D1103	48S40477U01	1N4003
□	IC1102	51T35010W01	M5278D05	D1104	48S40477U01	1N4003
▲	IC1102	51T80338F01	NJM7805FA	D1105	48T16313W01	1SR139
	IC1201	51T84721F01	CXA1081S	D1106	48T16313W01	1SR139
	IC1202	51T25718W01	CXD1167QZ	D1107	48T16313W01	1SR139
	IC1204	51T15980W05	15980W05	D1108	48T16313W01	1SR139
	IC1207	51T35105W01	SM5840CP	D1109	48T16313W01	1SR139
	IC1301	51T84722F02	CXA1082BS	D1110	48T16313W01	1SR139
	IC1401	51T35103W01	AD1864P	D1111	48T16313W01	1SR139
	IC1402	51T90149F02	M5218L	D1112	48T16313W01	1SR139
	IC1403	51T90149F02	M5218L	D1201	48T58583F01	1SS176
	IC1501	51T90889F01	LA6501-LR	D1203	48T58583F01	1SS176
				▲ D1205	48T58583F01	1SS176
				▲ D1210	48T58583F01	1SS176
				D1211	48T58583F01	1SS176
				D1401	48T58583F01	1SS176
				D1402	48T58583F01	1SS176
				ZD1113	48T52741F54	Zener, HZ18-3L
<b>Transistors</b>				<b>Coil / Crystal</b>		
	Q1101	48T82757F01	2SA1561	L1201	24T70381F21	Inductor, 10 $\mu\text{H}$
	Q1102	48T82758F01	2SC4038	X1201	91T84727F02	Crystal, 16.9344MHz
	Q1103	48T82758F01	2SC4038			
	Q1104	48T82758F01	2SC4038			
	Q1105	48T82762F02	DTA114EL			
	Q1203	48T82759F01	2SB1277	<b>Capacitors</b>		
	Q1301	48T82759F01	2SB1277	C1101	08T90316F29	TF, 0.1 $\mu\text{F}$
	Q1302	48T83275F01	2SD1919	E1101	23T00181L79	ELY., 3300 $\mu\text{F}$ / 16V
	Q1303	48T82759F01	2SB1277	E1102	23T00181L79	ELY., 3300 $\mu\text{F}$ / 16V
	Q1304	48T83275F01	2SD1919	E1103	23T00181L49	ELY., 330 $\mu\text{F}$ / 50V
	Q1305	48T82759F01	2SB1277	E1104	23T00181L49	ELY., 330 $\mu\text{F}$ / 50V
	Q1306	48T83275F01	2SD1919	E1105	23T00181L49	ELY., 330 $\mu\text{F}$ / 50V
	Q1307	48T82759F01	2SB1277	E1106	23T00181L21	ELY., 1000 $\mu\text{F}$ / 16V
	Q1308	48T83275F01	2SD1919	E1107	23T00181L48	ELY., 100 $\mu\text{F}$ / 50V
	Q1401	48T90183F01	2SD1996	E1108	23T00181L48	ELY., 100 $\mu\text{F}$ / 50V

Notes : ○ : For With Safety Regulations Version (Black Type) (AD),  
 △ : For Without Safety Regulations Version (Black Type) (EK),  
 □ : For With Safety Regulations Version (Champagne Gold Type) (AD),  
 ▲ : For Canada Version (UQ), Others : Common.

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
E1111	23T00180L24	ELY., 4.7 $\mu$ F / 50V	E1331	23T00180L13	ELY., 47 $\mu$ F / 25V
E1112	23T00180L24	ELY., 4.7 $\mu$ F / 50V	E1332	23T00180L13	ELY., 47 $\mu$ F / 25V
E1113	23T00180L25	ELY., 10 $\mu$ F / 50V	C1401	08T90316F08	PF., 180pF
C1201	08T90316F13	PF., 4700pF	C1404	08T90316F03	PF., 680pF
E1202	23T00180L28	ELY., 47 $\mu$ F / 50V	C1405	08T90316F03	PF., 680pF
C1203	08T90316F23	TF, 0.033 $\mu$ F	C1406	08T90316F08	PF., 1800pF
C1204	08T90316F09	PF., 2200pF	C1409	08T90316F03	PF., 680pF
E1204	23T00180L26	ELY., 22 $\mu$ F / 50V	E1409	23T00180L25	ELY., 10 $\mu$ F / 50V
C1205	08T90316F17	PF., 0.01 $\mu$ F	C1410	08T90316F03	PF., 680pF
E1205	23T00180L26	ELY., 22 $\mu$ F / 50V	E1410	23T00180L25	ELY., 10 $\mu$ F / 50V
C1206	08T90316F17	PF., 0.01 $\mu$ F	E1421	23T00180L26	ELY., 22 $\mu$ F / 50V
E1206	23T00180L26	ELY., 22 $\mu$ F / 50V	E1422	23T00180L26	ELY., 22 $\mu$ F / 50V
C1207	21S40655F23	CER., 100pF	C1431	08T90316F03	PF., 680pF
E1207	23T00180L20	ELY., 0.47 $\mu$ F / 50V	C1432	08T90316F03	PF., 680pF
C1208	08T90316F17	PF., 0.01 $\mu$ F	C1501	08T90316F28	TF, 0.082 $\mu$ F
E1209	23T00180L26	ELY., 22 $\mu$ F / 50V	C1502	08T90316F07	PF., 1500pF
C1210	21S40655F17	CER., 33pF	C1601	08T90316F08	PF., 1800pF
E1210	23T00180L12	ELY., 22 $\mu$ F / 25V	▲ C1603	08T90316F08	PF., 1800pF
C1211	21S40655F11	CER., 10pF	▲ C1604	08T90316F08	PF., 1800pF
E1211	23T00180L26	ELY., 22 $\mu$ F / 50V	▲ C1605	08T90316F01	PF., 470pF
C1212	21S40655F11	CER., 10pF	C1611	21S40655F17	CER., 33pF
E1212	23T00180L26	ELY., 22 $\mu$ F / 50V	<b>Resistors</b>		
C1213	08T90316F24	TF, 0.039 $\mu$ F	R1106	06T00005L50	240 ohm 1W
E1213	23T00180L26	ELY., 22 $\mu$ F / 50V	R1119	06T00005L41	100 ohm 1W
C1214	08T90316F06	PF., 1200pF	R1123	06T00005L39	82 ohm 1W
E1214	23T00180L26	ELY., 22 $\mu$ F / 50V	VR1201	18T15356W15	Variable, 22K ohm
C1215	21S40665F17	CER., 33pF	VR1202	18T15356W15	Variable, 22K ohm
E1215	23T00180L26	ELY., 22 $\mu$ F / 50V	VR1301	18T15356W15	Variable, 22K ohm
E1220	23T00180L26	ELY., 22 $\mu$ F / 50V	VR1302	18T15356W15	Variable, 22K ohm
C1229	08T90316F15	PF., 6800pF	VR1303	18T15356W09	Variable, 2.2K ohm
C1301	08T90316F13	PF., 4700pF	<b>Headphone P. C. Board</b>		
C1302	21S40655F23	CER., 100pF	<b>IC</b>		
C1304	08T90316F28	TF, 0.082 $\mu$ F	IC7201	51T90149F01	M5218AP
C1305	08T90316F29	TF, 0.1 $\mu$ F	<b>Capacitors</b>		
C1306	08T90316F23	TF, 0.033 $\mu$ F	E7201	23T00180L26	ELY., 22 $\mu$ F / 50V
E1308	23T00180L24	ELY., 4.7 $\mu$ F / 50V	E7202	23T00180L26	ELY., 22 $\mu$ F / 50V
C1309	08T90316F29	TF, 0.1 $\mu$ F	C7203	08T90316F01	PF., 470pF
C1310	08T90316F17	PF., 0.01 $\mu$ F			
E1311	23T00180L25	ELY., 10 $\mu$ F / 50V			
C1312	08T90316F27	TF, 0.068 $\mu$ F			
C1313	08T90316F19	TF, 0.015 $\mu$ F			
E1315	23T00180L12	ELY., 22 $\mu$ F / 25V			
E1316	23T00180L21	ELY., 1 $\mu$ F / 50V			
E1317	23T00180L20	ELY., 0.47 $\mu$ F / 50V			
C1318	08T90316F05	PF., 1000pF			
C1319	08T90316F17	PF., 0.01 $\mu$ F			
E1320	23T00180L25	ELY., 10 $\mu$ F / 50V			
C1326	08T90316F28	TF, 0.082 $\mu$ F			
C1327	08T90316F28	TF, 0.082 $\mu$ F			

**Notes :** ○ : For With Safety Regulations Version (Black Type) (AD),  
 △ : For Without Safety Regulations Version (Black Type) (EK),  
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Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
C7204	08T90316F01	PF., 470pF	LED		
C7205	08T90316F01	PF., 470pF			
C7206	08T90316F01	PF., 470pF			
C7207	08T90316F15	PF., 6800pF			
<b>Power Switch P. C. Board</b>			<b>LED</b>		
<b>Switch / Transformer</b>			<b>LD9100 48T66959F01 SLR-54VC3F (RED)</b>		
○ S8101	40T84122F01	Power SDDLE (POWER)	<b>Switches</b>		
△ T8101	25T16090W01	TRANS., Power	S9100	40T83324F15	Tact, SKHHPM (PLAY / PAUSE)
□ T8101	25T16090W01	TRANS., Power	S9101	40T83324F15	Tact, SKHHPM (STOP)
▲ T8101	25T16092W01	TRANS., Power	S9102	40T83324F15	Tact, SKHHPM (FF / FS)
<b>Capacitors</b>			S9103	40T83324F15	Tact, SKHHPM (BS / FB)
C8101	08T00196L01	POLY., 0.01μF	S9104	40T83324F15	Tact, SKHHPM (RANDOM)
C8102	08T00196L01	POLY., 0.01μF	S9105	40T83324F15	Tact, SKHHPM (A-SCAN)
<b>Front P. C. Board</b>			S9106	40T83324F15	Tact, SKHHPM (A-PAUSE)
<b>IC</b>			S9107	40T83324F15	Tact, SKHHPM (REPEAT)
IC9101	51T45204W01	GP1U561	S9108	40T83324F15	Tact, SKHHPM (PROGRAM)
<b>Diodes</b>			S9109	40T83324F15	Tact, SKHHPM (CLEAR)
D9100	48T58583F01	1SS176	S9110	40T83324F15	Tact, SKHHPM (CHECK)
D9101	48T58583F01	1SS176	S9111	40T83324F15	Tact, SKHHPM (DISPLAY)
D9102	48T58583F01	1SS176	S9112	40T83324F15	Tact, SKHHPM (OPEN / CLOSE)
D9103	48T58583F01	1SS176	<b>Capacitors</b>		
D9104	48T58583F01	1SS176	C9101	08T90316F11	PF., 3300pF
D9105	48T58583F01	1SS176	E9102	23T95078F28	ELY., 47μF / 16V
D9106	48T58583F01	1SS176	C9103	08T90316F11	PF., 3300pF
D9107	48T58583F01	1SS176	C9104	08T90316F11	PF., 3300pF
D9108	48T58583F01	1SS176	<b>IC</b>		
D9109	48T58583F01	1SS176	<b>Diodes</b>		
D9110	48T58583F01	1SS176	<b>Capacitors</b>		
D9111	48T58583F01	1SS176	<b>IC</b>		
D9112	48T58583F01	1SS176	<b>Diodes</b>		

Notes : ○ : For With Safety Regulations Version (Black Type) (AD),  
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 ▲ : For Canada Version (UQ), Others : Common.

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
<b>Miscellaneous</b>					
○	F8102	65T42077U09			Fuse, Semko (200mA)
△	F8102	65T42077U09			Fuse, Semko (200mA)
□	F8102	65T42077U09			Fuse, Semko (200mA)
	FL9101	65T15806W02			FL Display
	HD2001	88E08496S01			Head, Optical Pick Up
▲	JK1201	09T84124F01			Jack (SERIAL REMOTE IN/OUT)
	S1201				
	JK1401	09T25719W01			Jack, T6482 (ANALOG OUT)
	JK7201	09T66672F06			Jack, Headphone (Phones)
	LD5100	48T72813F01			SLR-34DC3F (ORG)
	M2001	01E08448S01			Assy., Loading Motor
	M2002	01E08458S01			Assy., Sled Motor
	M2003	01E08459S01			Assy., Spindle Motor
○	P8101	92176825			AC Power Cord
△	P8101	92176825			AC Power Cord
□	P8101	92176825			AC Power Cord
▲	P8101	92176751			AC Power Cord
	S2001	40E08481S01			Switch, Leaf (OPEN/CLOSE)
	S2002	40E08482S01			Switch, Leaf (LIMIT)
	VR7201	18T84123F02			Variable, 50K ohm

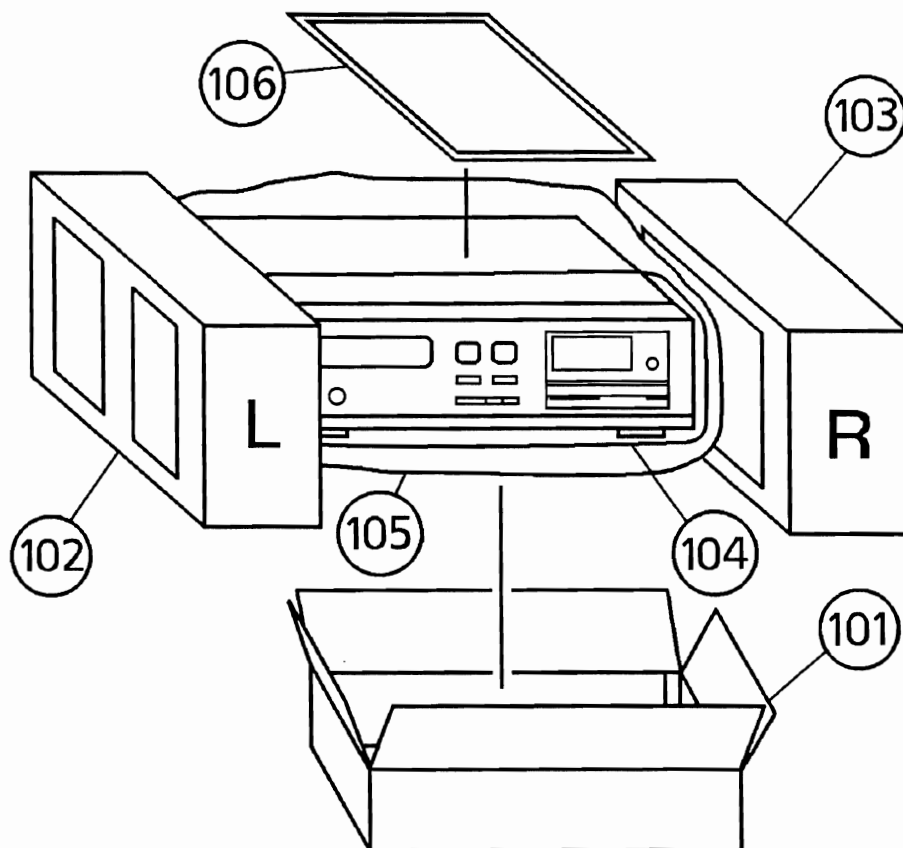
Notes : ○ : For With Safety Regulations Version (Black Type) (AD),  
 △ : For Without Safety Regulations Version (Black Type) (EK),  
 □ : For With Safety Regulations Version (Champagne Gold Type) (AD),  
 ▲ : For Canada Version (UQ), Others : Common.

## Packing Assembly Parts List

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
○	101	92929878			
△	101	92929878			
□	101	92929882			
▲	101	92929878			
	102	92938618			
	103	92938619			
	104	92947082			
	105	92941003			
	106-1	68P21522W63			
	106-2	92101314			
	106-3	92187778			
	106-4	92120287			

Notes : ○ : For With Safety Regulations Version (Black Type) (AD),  
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 □ : For With Safety Regulations Version (Champagne Gold Type) (AD),  
 ▲ : For Canada Version (UQ), Others : Common.

## Packing Method View



# Cabinet Assembly Parts List

- Notes : ● The parts without parts list are not supplied.  
 ● Parts marked \* will need a long delivery time, or may be not supplied in some cases.

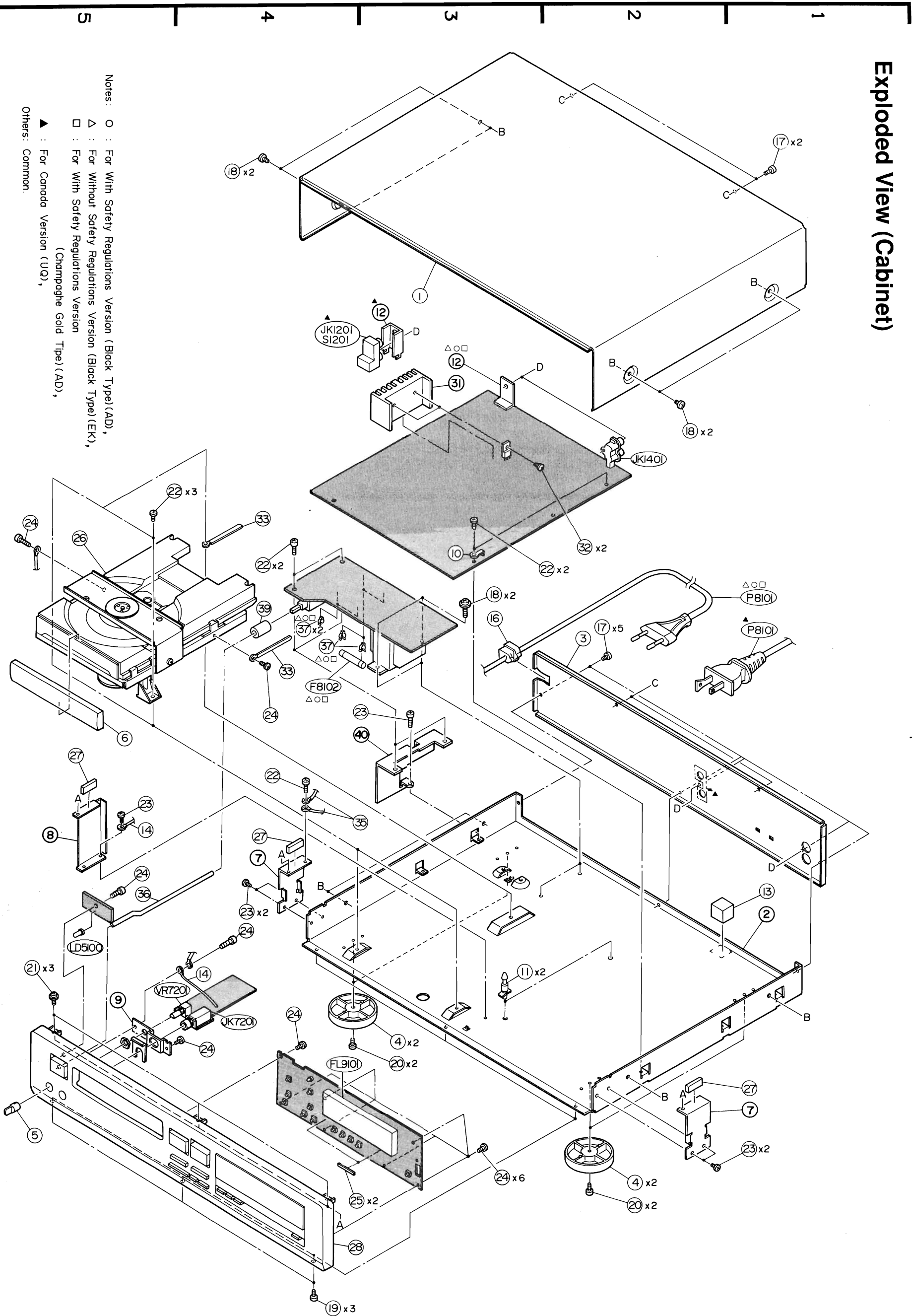
Symbol No.	Index	Part No.	Description	Symbol No.	Index	Part No.	Description
○	1	3-B 92837943	Cover, Top	○	36	5-E 95727675	Rod
△	1	3-B 92837943	Cover, Top	△	37	09T51410F01	Holder, Fuse
□	1	3-B 92837948	Cover, Top	□	37	09T51410F01	Holder, Fuse
▲	1	3-B 92837943	Cover, Top	□	37	09T51410F01	Holder, Fuse
○	3	2-D 92838636	Cover, Rear	○	39	4-D 90842699	Spacer Rubber
△	3	2-D 92838626	Cover, Rear				
□	3	2-D 92838636	Cover, Rear				
▲	3	2-D 92838629	Cover, Rear				
	4	90842695	Foot				
○	5	5-G 90874814	Knob, Volume (B)				
△	5	5-G 90874814	Knob, Volume (B)				
□	5	5-G 90874877	Knob, Volume (G)				
▲	5	5-G 90874814	Knob, Volume (B)				
○	6	5-E 90718721	Panel, Tray (B)				
△	6	5-E 90718721	Panel, Tray (B)				
□	6	5-E 90718728	Panel, Tray (G)				
▲	6	5-E 90718721	Panel, Tray (B)				
	10	3-D 29A11624W01	Lug, P.C.Board				
	11	3-F 92755988	Support, P.C.Board				
	13	1-E 92766771	Rubber				
	14	01T95113F06	Assy., Lug Wire				
	16	3-D 95844322	Bushing, Cord				
	17	92707885	Screw, Bind (M3×8)				
	18	92707040	Screw, Bind (M4×6)				
○	19	4-H 92707911	Screw, Bind (M3×8)				
△	19	4-H 92707911	Screw, Bind (M3×8)				
□	19	4-H 92707842	Screw, Bind (M3×8)				
▲	19	4-H 92707911	Screw, Bind (M3×8)				
	20	92707852	Screw, Pan (M3×12)				
	21	5-F 92708022	Screw, Pan (M3×6)				
	22	92707842	Screw, Bind (M3×8)				
	23	92707910	Screw, Bind (M3×6)				
	24	92707979	Screw, Bind (M2.6×8)				
	25	4-G 92766890	Cushion, FL				
	*26	5-C 81T25297W01	CD Mechanism, DK23A010				
	27	92766894	Cushion, Cover				
○	28	4-G 90017659	Assy., Front Panel				
△	28	4-G 90017659	Assy., Front Panel				
□	28	4-G 90017660	Assy., Front Panel				
▲	28	4-G 90017661	Assy., Front Panel				
	32	2-C 03S72235F19	Screw, Bind (M3×6)				
	33	92755623	Lug, Clamp				
	35	3-E 01T92483F01	Assy., Lug Wire				

- Notes : ○ : For With Safety Regulations Version (Black Type) (AD),  
 △ : For Without Safety Regulations Version (Black Type) (EK),  
 □ : For With Safety Regulations Version (Champagne Gold Type) (AD),  
 ▲ : For Canada Version (UQ), Others : Common.

# Exploded View (Cabinet)

D-321

D-321



Notes: ○ : For With Safety Regulations Version (Black Type) (AD),  
 Δ : For Without Safety Regulations Version (Black Type) (EK),  
 □ : For With Safety Regulations Version  
 (Champagne Gold Type) (AD),  
 ▲ : For Canada Version (UO),  
 Others: Common.

- 35 -

- 36 -

A

B

C

D

E

F

G

5

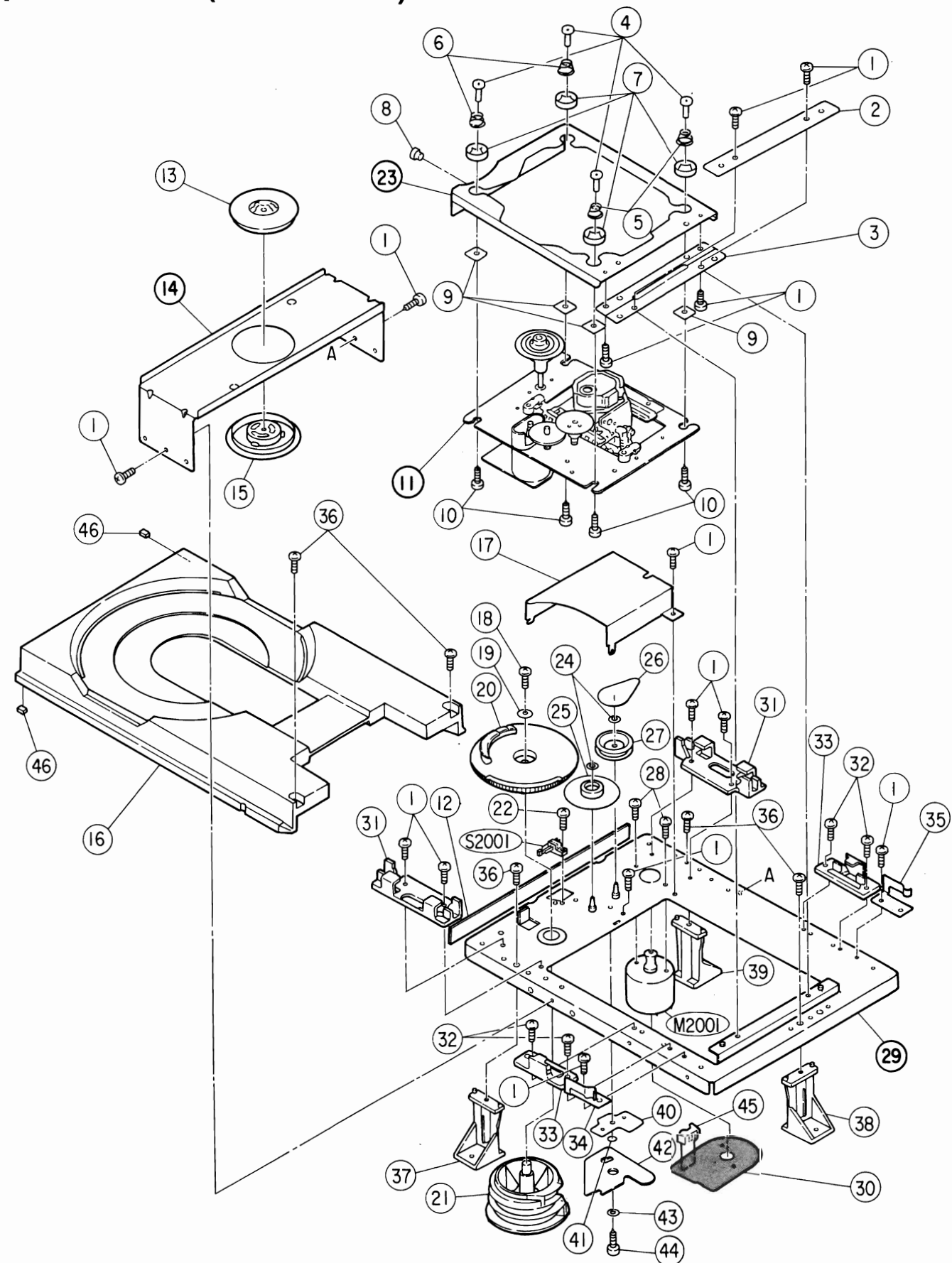
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3

2

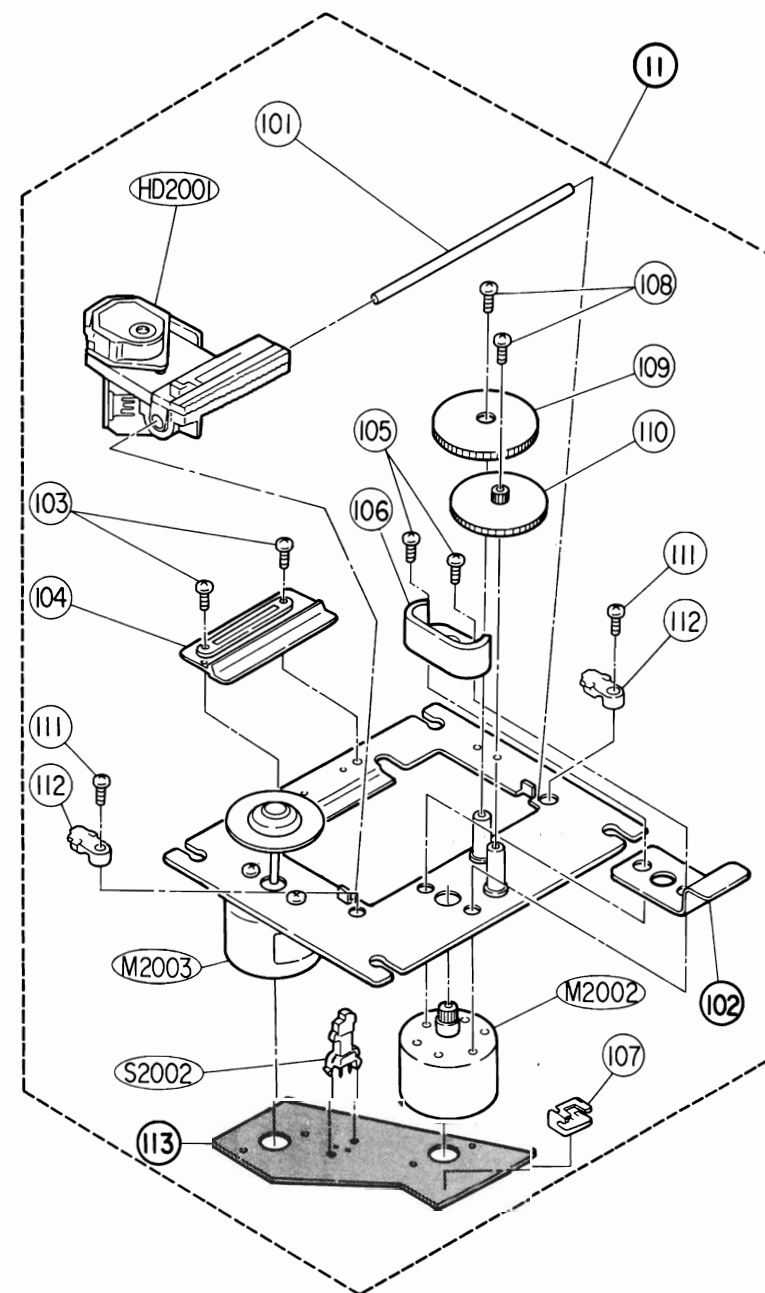
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# Exploded View (Mechanism)



- 37 -

A | B | C | D | E | F | G | H



- 38 -

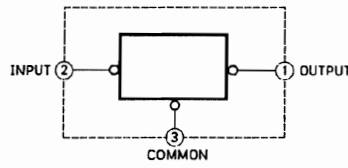
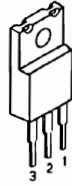
# Mechanism Assembly Parts List

NOTE : The parts without parts list are not supplied.

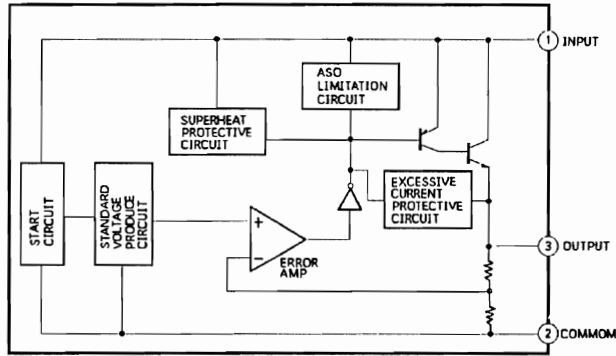
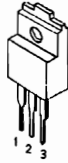
Symbol No.	Index	Part No.	Description	Symbol No.	Index	Part No.	Description
1		03E03010S02	Screw, Round (M2.6×6)	107	4-F	09E08477S01	Connector (4P)
2	1-D	07E08437S01	Plate, Hinge Hold	108	2-G	03E08473S01	Screw, Flat (M1.7×3)
3	2-D	07E08445S01	Hinge	109	2-G	44E08488S01	Gear (A)
4	1-C	49E08460S01	Shaft (T)	110	2-G	44E08489S01	Gear (B)
5	1-C	41E08465S01	Spring, Coil (B)	111		03E08474S01	Screw, Flat (M2.6×8)
6	1-C	41E08466S01	Spring, Coil (A)	112		42E08483S01	Clamp, Shaft
7	1-C	14E08467S01	Insulator (C)				
8	1-B	49E08461S01	Roller				
9		15E08468S01	Plate (T)				
10		03E08471S01	Screw, W / Washer (M1.8×8)				
12	4-C	01E08456S01	Tape, Front				
13	1-B	01E08446S01	Assy., Magnet				
15	3-B	49E08462S01	Pulley, Chacking				
16	4-A	01E08447S01	Tray				
17	3-C	15E08469S01	Cover, Gear				
18	3-C	03E08497S01	Screw, Bind (M2.6×10)				
19	3-C	04E08475S01	Washer, Flat (M2.6)				
20	3-C	44E08490S01	Gear, Drive				
21	5-C	45E08492S01	Cam, Control				
22	4-C	03E03010S03	Screw, Round (M2×4)				
24	3-C	04E02927S01	Washer, Lock (M2)				
25	3-C	44E08491S01	Gear, Middle				
26	3-C	42E08484S01	Belt				
27	3-C	49E08463S01	Pulley, Loading				
28	4-C	03E02990S01	Screw, Bind (M2.6×3)				
30	5-D	84E08495S01	Motor P.C.Board				
31		15E08449S01	Holder, Tray (Front)				
32		03E03008S02	Screw, Pan (M2×4)				
33		15E08450S01	Holder, Tray (Rear)				
34	5-C	45E08493S01	Guide, Tray (R)				
35	4-D	45E08493S02	Guide, Tray (L)				
36		03E08497S02	Screw, Bind (M3×10)				
37	5-B	01E08451S01	Boss, MD Bracket (R)				
38	5-D	01E08452S01	Boss, MD Bracket (Rear)				
39	4-D	01E08453S01	Boss, MD Bracket (L)				
40	5-C	15E08470S01	Plate, Link				
41	5-C	01E08454S01	Boss				
42	5-C	01E08455S01	Assy., Stopper Link				
43	5-C	43E08485S01	Spacer				
44	5-C	03E08498S01	Screw, Frange (M2.6×8)				
45	5-D	09E08476S01	Connector (5P)				
46		43E08486S01	Damper				
101	1-F	49E08464S01	Shaft, Slide				
103	2-E	03E08472S01	Screw, Flat (M2×5)				
104	3-E	15E08457S01	Holder, Slide				
105	2-F	03E02984S02	Screw, Pan (M2×5)				
106	2-F	15E08478S01	Cover, Gear				

# Semi-Conductor Lead Identifications

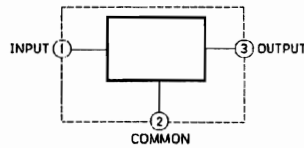
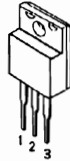
**NJM7905FA : IC1101**



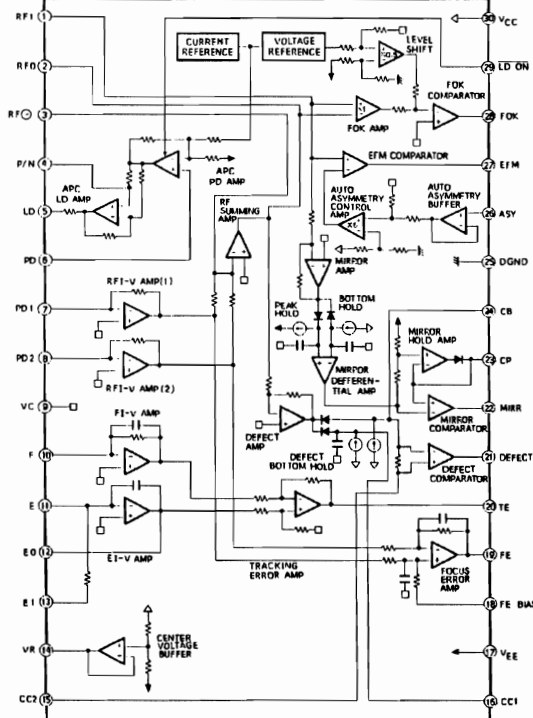
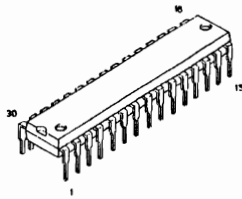
**M5278D05 : IC1102 (○, △, □)**



**NJM7805FA : IC1102 (▲)**



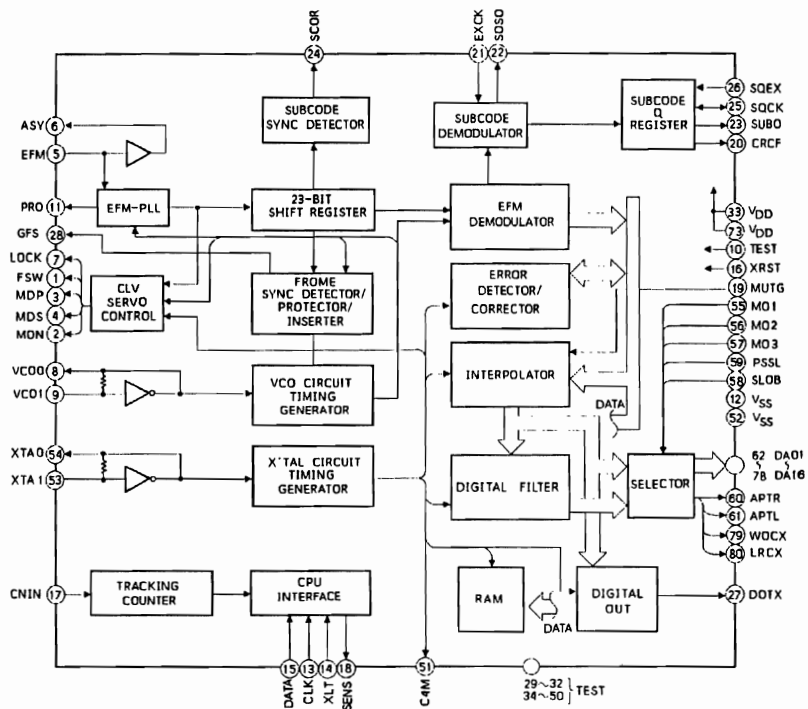
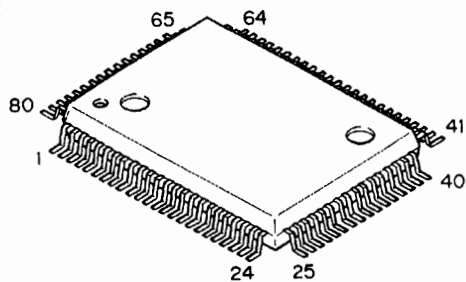
**CXA1081S : IC1201**



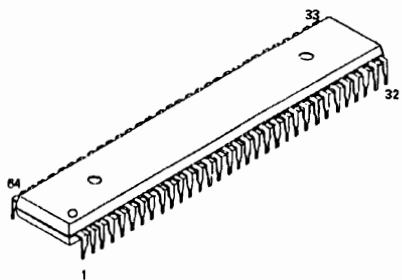
**Notes :** ○ : For With Safety Regulations Version (Black Type) (AD),  
 △ : For Without Safety Regulations Version (Black Type) (EK),  
 □ : For With Safety Regulations Version (Champagne Gold Type) (AD),  
 ▲ : For Canada Version (UQ), Others : Common.



CXD1167QZ : IC1202

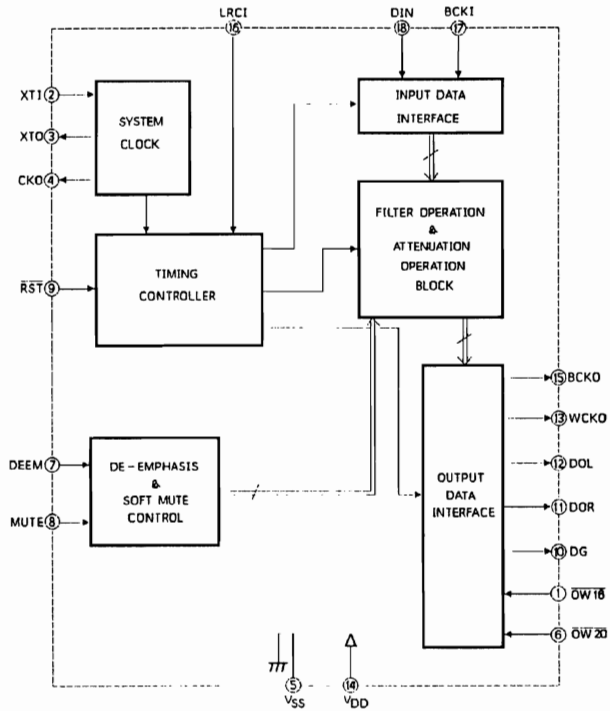
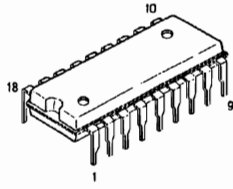


15980W05 : IC1204

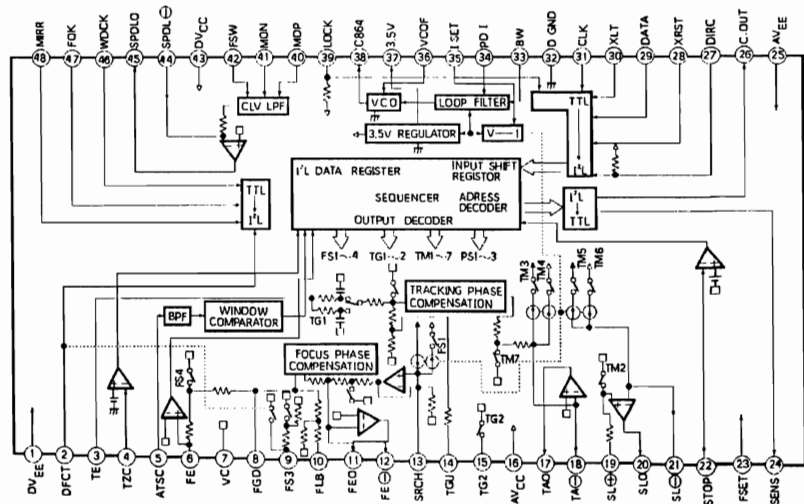
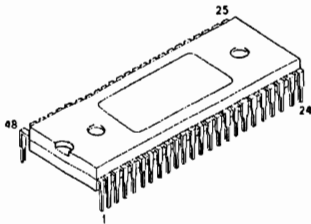


PIN NO.	CORD ADDRESS	I/O	PIN NO.	CORD ADDRESS	I/O	PIN NO.	CORD ADDRESS	I/O
1	SEG 4	I/O	23	/LDON	I/O	45	KRT 1	I
2	SEG 3	I/O	24	XRST	I/O	46	KRT 0	I
3	SEG 2	I/O	25	XLT	I/O	47	RST	I
4	SEG 1	I/O	26	DATA	I/O	48	OSC 2	I/O
5	SEG 0	I/O	27	CLK	I/O	49	OSC 1	I/O
6	5G	I/O	28	INTO	I/O	50	GND	—
7	4G	I/O	29	SCOR	I/O	51	CL 1	I/O
8	3G	I/O	30	/RMC	I/O	52	NC	—
9	2G	I/O	31	NC	—	53	TST	I
10	1G	I/O	32	VCC	—	54	SEGF	I/O
11	NC	—	33	SQCK	I/O	55	SEGE	I/O
12	NC	—	34	SUBQ	I/O	56	SEG D	I/O
13	NC	—	35	FDK	I/O	57	SEGC	I/O
14	NC	—	36	NC	—	58	SEGB	I/O
15	NC	—	37	SENS	I/O	59	SEGA	I/O
16	DISP	I/O	38	NC	—	60	SEG 9	I/O
17	EMPH	I/O	39	MUTG	I/O	61	SEG 8	I/O
18	GFS	I	40	GND	—	62	SEG 7	I/O
19	VFD P	I	41	CLOS	I/O	63	SEG 6	I/O
20	AMUTE	I/O	42	OPEN	I/O	64	SEG 5	I/O
21	CLSSW	I/O	43	SWRT	I			
22	OPNSW	I/O	44	KRT 2	I			

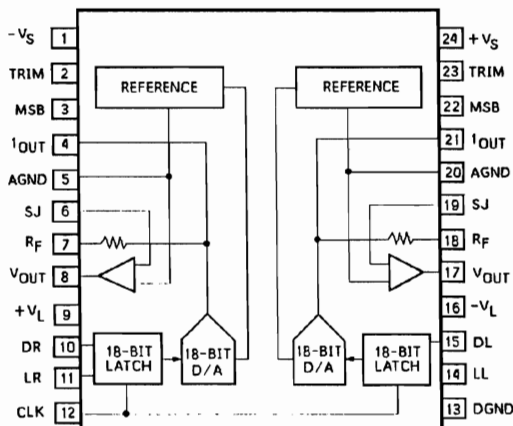
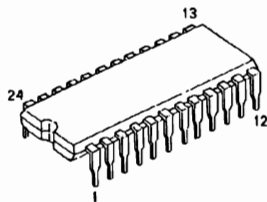
SM5840CP : IC1207



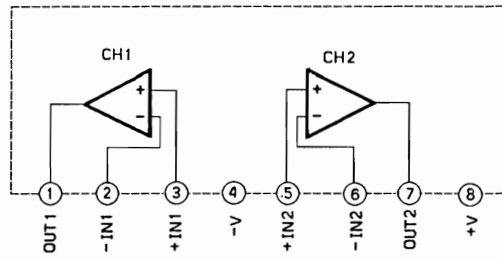
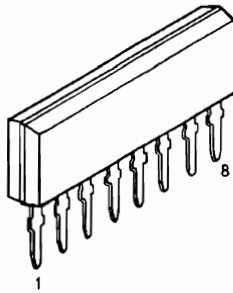
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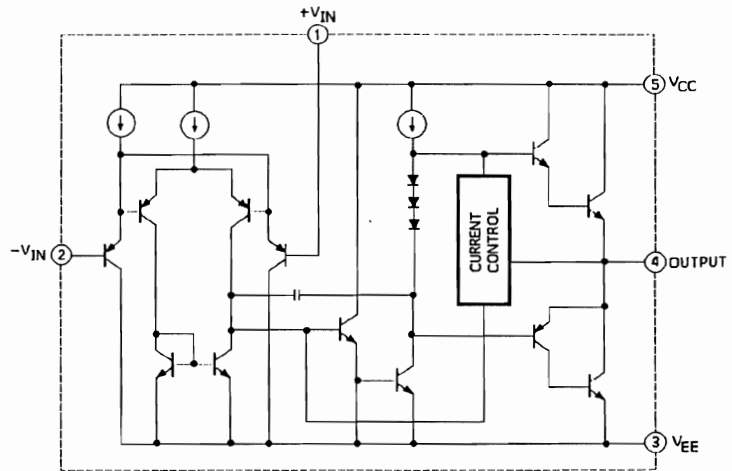
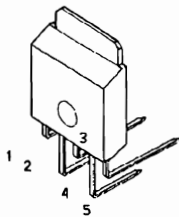
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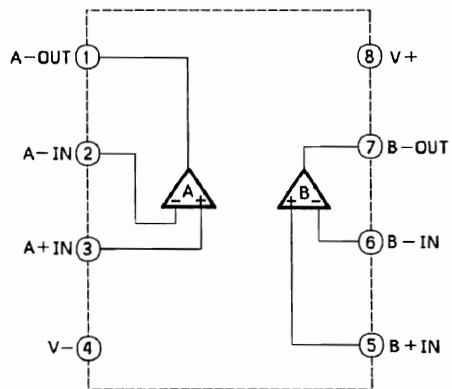
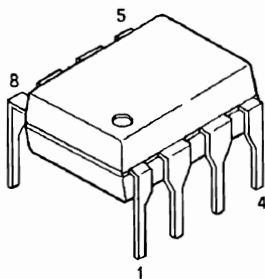
**M5218** : IC1402, 1403



**LA6501-LR** : IC1501



**M5218AP** : IC7201



**GP1U561** : IC9101

