

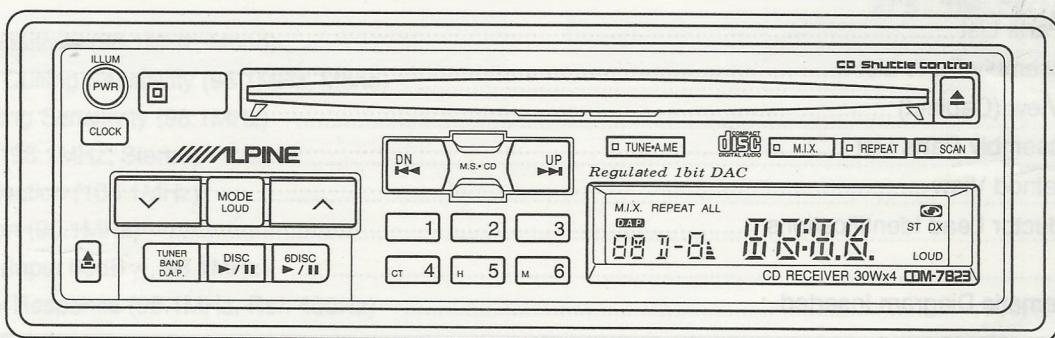
# ALPINE® SERVICE MANUAL

## FM/AM Compact Disc Receiver

### CD Shuttle Controller



- For the CD player mechanism parts (DP24H02A) of this model, refer to the Service Manual • DP-H SERIES (68E21967S01).



**CDM-7823/7823E  
CDE-7822/7822E  
CDE-7821/7821E  
CDE-7820/7820E**

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Spare Schematic Diagram Inserted.

# Specifications

## CD SECTION

System	Optical (Compact Disc system)
Quantizing Bit Number	16bit Linear system
Channels	2 Channels
Channel Balance (1kHz)	0±3dB
Distortion (1kHz)	0.1% (○●△▲×☆) 0.2% (□■)
Frequency Response (Ref.1kHz)	17Hz : 0±3dB 127Hz : 0±2dB 10.007kHz : 0±2dB 19.997kHz : 0±4dB
S/N Ratio (1kHz)	85dB (○●△▲×☆) 75dB (□■)
Separation (1kHz)	55dB
De-Emphasis	4kHz : -20±3dB 16kHz : -20±3dB

## FM RADIO

Intermediate Frequency	10.7±0.1MHz
Frequency Range	87.7~107.9MHz (○△×□) 87.5~108MHz (●▲☆■)
Usable Sensitivity (98.1MHz, Mono)	20.2dBf
50dB S/N Quiting Sensitivity (98.1MHz, Mono)	20.2dBf
-3dB Limiting Sensitivity (98.1MHz)	20.2dBf
S/N Ratio (98.1MHz, Stereo)	55dB
Image Rejection (106.1MHz)	40dB
IF Rejection (90.1MHz)	60dB
Distortion (Input 60dB $\mu$ , 98.1MHz)	1%
Frequency Response (98.1MHz, Ref. 400Hz)	100Hz : 0±3dB 10kHz : -13±3dB
Stereo Separation (1kHz)	25dB
Residual Noise (98.1MHz, Ref. 400Hz)	30±6dB

## AM RADIO

Intermediate Frequency	450kHz
Frequency Range	530~1,710kHz (○△×□) 531~1,602kHz (●▲☆■)
Sensitivity (20dB S/N, 1,000kHz (○△×□), 999kHz (●▲☆■))	34dB
S/N Ratio (1,000kHz (○△×□), 999kHz (●▲☆■))	44dB
Image Rejection (1,400kHz (○△×□), 1,404kHz (●▲☆■))	50dB
IF Rejection (600kHz (○△×□), 603kHz (●▲☆■))	60dB
Distortion (1,000kHz (○△×□), 999kHz (●▲☆■))	1.5%
Frequency Response (1,000kHz (○△×□), 999kHz (●▲☆■), Ref. 400Hz)	100Hz : -3±4dB 4kHz : -12±6dB

## GENERAL

Power Supply .....	DC14.4V
Power Output/Impedance .....	14W/ch/4ohm (○●) 11W/ch/4ohm (△▲×☆□■)
Pre-Output Voltage/Impedance .....	1.2V/10kohm
Semiconductors .....	21IC's, 57Transistors, 31Diodes, 9Zener Diodes (○●) 20IC's, 48Transistors, 29Diodes, 9Zener Diodes (△▲) 19IC's, 45Transistors, 27Diodes, 9Zener Diodes (×☆) 16IC's, 40Transistors, 28Diodes, 9Zener Diodes (□■)
Dimensions (W×H×D) .....	Nose : 169×45×18mm Chassis : 178×50×152mm
Weight .....	1.5kg

Note : Due to Continuing product improvement, specifications and designs are subject to change without notice.

- |                              |                               |
|------------------------------|-------------------------------|
| ○ : For CDM-7823 Model Only, | ● : For CDM-7823E Model Only, |
| △ : For CDE-7823 Model Only, | ▲ : For CDE-7822E Model Only, |
| × : For CDE-7821 Model Only, | ☆ : For CDE-7821E Model Only, |
| □ : For CDE-7820 Model Only, | ■ : For CDE-7820E Model Only, |
|                              | Others :Common.               |

## In Case of Difficulty

If you encounter a problem, please review the items in the following check list. This guide will help you isolate the problem if the unit is at fault. Otherwise, make sure the rest of your system is properly connected or consult your authorized Alpine dealer.

### Initial Turn-on After Installation

Symptom/Symptôme/Síntoma	Cause and Solution
No function or display./Fonctions inopérantes ou pas d'affichage./La unidad no funciona ni hay visualización.	<ul style="list-style-type: none"> <li>Car's ignition is off.           <ul style="list-style-type: none"> <li>If connected per instructions, the unit will not operate with the car's ignition off.</li> </ul> </li> <li>Power button off.           <ul style="list-style-type: none"> <li>With the car's ignition on, push the PWR button to turn power on.</li> </ul> </li> <li>Improper connection of power leads.           <ul style="list-style-type: none"> <li>Check connections of the power leads.</li> </ul> </li> <li>Blown fuse.           <ul style="list-style-type: none"> <li>Check the fuses on the Battery leads; replace with the proper value if necessary.</li> </ul> </li> </ul>
Functions OK but no sound./Fonctions opérantes mais pas de son./La unidad funciona pero no hay sonido.	<ul style="list-style-type: none"> <li>Volume level too low.           <ul style="list-style-type: none"> <li>Adjust the volume to desired level with the □ or △ button.</li> </ul> </li> <li>Processors or amplifiers are not turning on.           <ul style="list-style-type: none"> <li>Make sure Remote Turn-on Lead is connected properly; make sure processors and amplifiers are properly wired.</li> </ul> </li> </ul>

## In Case of Difficulty

### Radio Mode

Symptom/Symptôme/Síntoma	Cause and Solution
Unable to receive stations./Impossible de recevoir les stations./Es imposible recibir emisoras.	<ul style="list-style-type: none"> <li>No antenna or open connection in cable.           <ul style="list-style-type: none"> <li>Make sure the antenna is properly connected; replace the antenna or cable if necessary.</li> </ul> </li> </ul>
Unable to tune stations in the seek mode./Impossible d'accorder les stations en mode de recherche automatique./Es imposible sintonizar emisoras en el modo de búsqueda.	<ul style="list-style-type: none"> <li>You are in a weak signal area.           <ul style="list-style-type: none"> <li>Make sure the tuner is in the DX mode.</li> </ul> </li> <li>If the area you are in is not known to be a weak signal area, the antenna may not be grounded and connected properly.           <ul style="list-style-type: none"> <li>Check your antenna connections; make sure the antenna is properly grounded at its mounting location.</li> </ul> </li> <li>The antenna may not be the proper length.           <ul style="list-style-type: none"> <li>Make sure the antenna is fully extended; if broken, replace the antenna with a new one.</li> </ul> </li> </ul>
Broadcast is noisy./Réception parasitée./La recepción es ruidosa.	<ul style="list-style-type: none"> <li>The antenna is not the proper length.           <ul style="list-style-type: none"> <li>Extend the antenna fully; replace it if it is broken.</li> </ul> </li> <li>The antenna is poorly grounded.           <ul style="list-style-type: none"> <li>Make sure the antenna is grounded properly at its mounting location.</li> </ul> </li> </ul>

## In Case of Difficulty

CD Mode	
Symptom/Symptôme/Síntoma	Cause and Solution
CD insertion not possible./Impossible d'insérer un disque compact./Es imposible insertar un disco compacto.	<ul style="list-style-type: none"> <li>There is a CD already in the transport.           <ul style="list-style-type: none"> <li>Eject the CD in transport and remove it.</li> </ul> </li> <li>The CD is being improperly inserted.           <ul style="list-style-type: none"> <li>Make sure the CD is being inserted per instruction in the Owner's Manual.</li> </ul> </li> </ul>
Unable to Fast-Forward or Backward./Impossible d'avancer rapidement ou de retourner./Es imposible avanzar y retroceder rápidamente.	<ul style="list-style-type: none"> <li>The CD has been damaged.           <ul style="list-style-type: none"> <li>Eject the CD and discard; using a damaged CD in your unit can cause damage to the transport.</li> </ul> </li> </ul>
Sound skips due to vibration./Le son saute à cause de vibrations./El sonido salta debido a las vibraciones.	<ul style="list-style-type: none"> <li>Improper mounting.           <ul style="list-style-type: none"> <li>Securely re-mount the unit.</li> </ul> </li> <li>Disc is very dirty.           <ul style="list-style-type: none"> <li>Clean the disc.</li> </ul> </li> <li>Disc has scratches.           <ul style="list-style-type: none"> <li>Change the disc.</li> </ul> </li> </ul>
Sound skips without vibration./Le son saute en l'absence de vibration./El sonido salta aunque no haya vibraciones.	<ul style="list-style-type: none"> <li>Dirty or scratched disc.           <ul style="list-style-type: none"> <li>Clean the disc: damaged discs should be replaced.</li> </ul> </li> </ul>

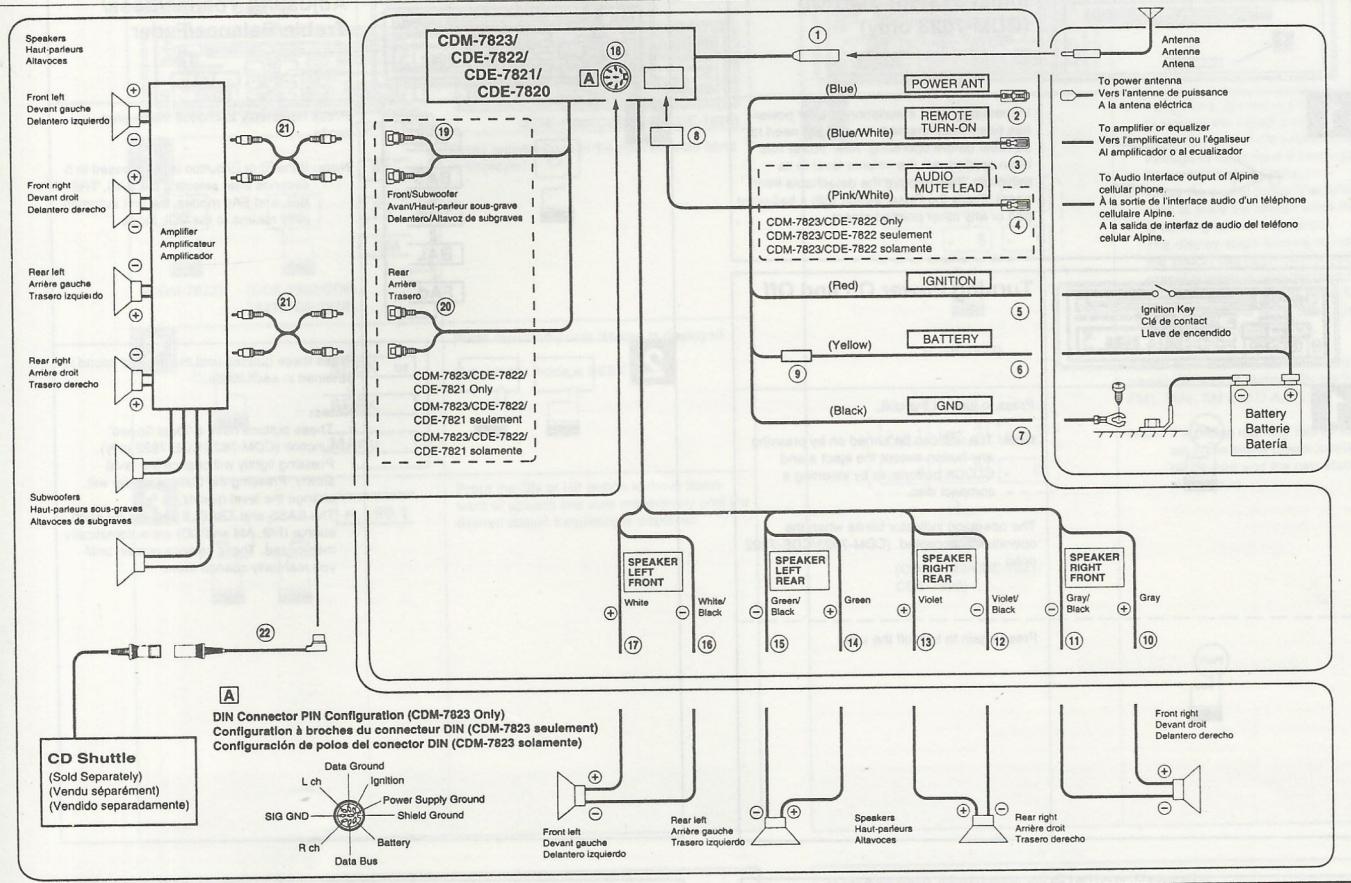
CD Shuttle Mode (CDM-7823 only)	
Symptom/Symptom/Symptôme	Cause and Solution
No CD Shuttle functions. /Pas de fonctions du CD Shuttle./El CD Shuttle no funciona.	<ul style="list-style-type: none"> <li>DIN control cable not connected.           <ul style="list-style-type: none"> <li>Make sure the control and audio cables have been properly connected per the CD Shuttle instructions.</li> </ul> </li> <li>The CD magazine has not been inserted.           <ul style="list-style-type: none"> <li>Insert the magazine with at least one CD inserted.</li> </ul> </li> </ul>
Music skips excessively./La musique saute excessivement./La música salta en exceso.	<ul style="list-style-type: none"> <li>The CD Shuttle has not been mounted securely.           <ul style="list-style-type: none"> <li>Follow the CD Shuttle installation instructions for proper installation.</li> </ul> </li> <li>The transit screws were not removed before installation.           <ul style="list-style-type: none"> <li>Remove the Transit Screws and reinstall the CD Shuttle.</li> </ul> </li> <li>The mounting angle of the CD Shuttle is excessive.           <ul style="list-style-type: none"> <li>Mount the CD Shuttle according to the directions given in the installation manual.</li> </ul> </li> <li>The CD being played is dirty.           <ul style="list-style-type: none"> <li>Clean the CD being very careful not to scratch it.</li> </ul> </li> <li>The CD being played is damaged.           <ul style="list-style-type: none"> <li>If the CD in question is cracked or warped, discard it as it could cause damage to the CD mechanism; if the CD is scratched at one selection only, skip that selection using the Music Sensor function to play the remaining selections.</li> </ul> </li> </ul>
Playback of 3" discs does not work in CD Shuttle./La lecture de disques de 8 cm ne fonctionne pas sur le CD Shuttle./Los discos de 8 cm no pueden ser reproducidos en el CD Shuttle.	<ul style="list-style-type: none"> <li>The 3" adaptor ring is not being used.           <ul style="list-style-type: none"> <li>Place the disc into a 3" adaptor ring before inserting it into the magazine.</li> </ul> </li> </ul>

## Indication for CD Shuttle

(CDM-7823 only)	
Indication/Indication/Indicación	Cause and Solution
E – 01	<ul style="list-style-type: none"> <li>Disc-change malfunction.           <ul style="list-style-type: none"> <li>Consult your Alpine dealer.</li> </ul> </li> </ul>
- - H	<ul style="list-style-type: none"> <li>Disc-change malfunction.           <ul style="list-style-type: none"> <li>Press the magazine eject button and pull out the Magazine. Check for indication. Insert the magazine again. If the magazine can not be pulled out, consult your Alpine dealer.</li> </ul> </li> </ul>
EEEE	<ul style="list-style-type: none"> <li>Magazine ejection impossible.           <ul style="list-style-type: none"> <li>Press the magazine eject button. If the magazine does not eject, consult your Alpine dealer.</li> </ul> </li> </ul>
- - -	<ul style="list-style-type: none"> <li>High temperature.           <ul style="list-style-type: none"> <li>Will disappear when the temperature returns to operation range.</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>Misconnection or disconnection of CD Shuttle.           <ul style="list-style-type: none"> <li>Check connection between CD Shuttle and control unit.</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>No magazine is loaded into CD Shuttle.           <ul style="list-style-type: none"> <li>Insert a magazine.</li> </ul> </li> </ul>

# Connections/Connexions/Conexiones

## System/Système/Sistema



### ① Antenna Receptacle

### ② Power Antenna Lead (Blue)

Connect this lead to the +B terminal of your power antenna, if applicable.

### ③ Remote Turn-On Lead (Blue/White)

Connect this lead to the remote turn-on lead of your amplifier or signal processor.

### ④ Audio Mute Lead (Pink/White) (CDM-7823/CDE-7822 only)

Connect this lead to the Audio Interface output of an Alpine cellular phone that provides +12 volt current to activate the muting circuit inside the CDM-7823/CDE-7822.

### ⑤ Switched Power Lead (Ignition) (Red)

Connect this lead to an open terminal on the vehicle's fuse box or another unused power source which provides (+)12V only when the ignition is turned on or in the accessory position.

### ⑥ Battery Lead (Yellow)

Connect this lead to the positive (+) post of the vehicle's battery.

### ⑦ Ground Lead (Black)

Connect this lead to a good chassis ground on the vehicle. Make sure the connection is made to bare metal and is securely fastened using the sheet metal screw provided.

### ⑧ Power Supply Connector

### ⑨ Fuse Holder (10A)

### ⑩ Right Front (+) Speaker Output Lead (Gray)

### ⑪ Right Front (-) Speaker Output Lead (Gray/Black)

### ⑫ Right Rear (-) Speaker Output Lead (Violet/Black)

### ⑬ Right Rear (+) Speaker Output Lead (Violet)

### ⑭ Left Rear (+) Speaker Output Lead (Green)

### ⑮ Left Rear (-) Speaker Output Lead (Green/Black)

### ⑯ Left Front (-) Speaker Output Lead (White/Black)

### ⑰ Left Front (+) Speaker Output Lead (White)

### ⑱ DIN Connector (CDM-7823 only)

Connect this to the DIN connector on the CD Shuttle.

### ⑲ Front/Subwoofer Output RCA Connectors (CDM-7823/CDE-7822/CDE-7821 only)

RED is right and WHITE is left.

### ⑳ Rear Output RCA Connectors (CDM-7823/CDE-7822/CDE-7821 only)

RED is right and WHITE is left.

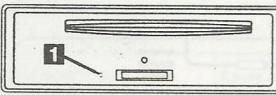
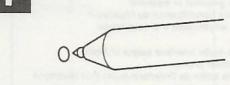
### ㉑ RCA Extension Cable (Sold Separately)

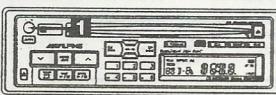
### ㉒ DIN Extension Cable

#### NOTE:

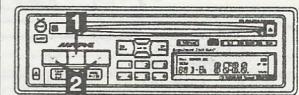
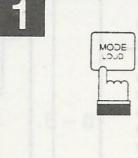
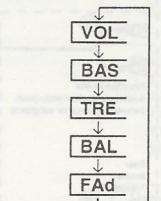
Older Alpine CD Shuttle came with standard, straight type DIN connectors. In installations where an L-type connector would simplify installation, the Alpine 4910<sub>02</sub> Adaptor can be used (Sold Separately).

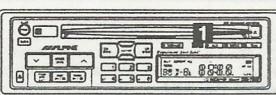
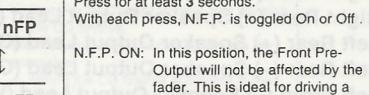
**Basic Operation**

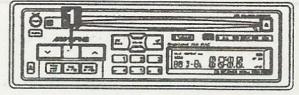
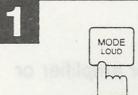
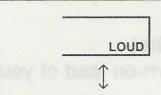
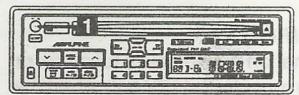
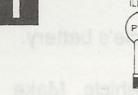
	<b>Initial System Start-Up (CDM-7823 only)</b>
<b>1</b> 	Immediately after installation or after power has been disconnected, the unit will need to be reset before operating. After power has been applied, set the volume level to its minimum, then remove the detachable front panel. Press the Reset switch with a ball-point pen or any other pointed object.

	<b>Turning Power On and Off</b>
<b>1</b> 	Press to turn on the unit.  <b>Note:</b> The unit can be turned on by pressing any button except the eject ▲ and CLOCK buttons, or by inserting a compact disc.  The operation indicator blinks when the operation is accepted. (CDM-7823/CDE-7822 only)
	Press again to turn off the unit.

**Basic Operation**

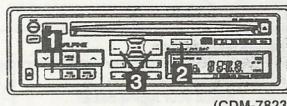
	<b>Adjusting Volume/Bass/Treble/Balance/Fader</b>
<b>1</b>  	Press repeatedly to choose the desired mode.  <b>Note:</b> If the □ or ▢ button is not pressed in 5 seconds after selecting the BAS, TRE, BAL and FAd modes, the unit automatically returns to the VOL mode.

	<b>Non Fader Pre-Out (N.F.P.) On and Off (CDM-7823/CDE-7822/CDE-7821 only)</b>
<b>1</b>  	Press for at least 3 seconds. With each press, N.F.P. is toggled On or Off.  N.F.P. ON: In this position, the Front Pre-Output will not be affected by the fader. This is ideal for driving a subwoofer amplifier. N.F.P. OFF: Returns to normal fader mode.  <b>Note:</b> Set the N.F.P. to OFF unless the subwoofer is used.

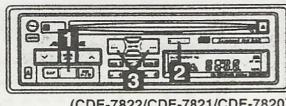
	<b>Turning Loudness On/Off</b>
<b>1</b>  	Loudness introduces a special low- and high-frequency emphasis at low listening levels to compensate for the ear's decreased sensitivity to bass and treble sound.  Press for at least 2 seconds to activate or deactivate the loudness mode.
	<b>Changing Lighting Colour (CDM-7823 only)</b>
<b>1</b> 	Press for at least 2 seconds to change the lighting colour between amber and green.

## Radio Operation

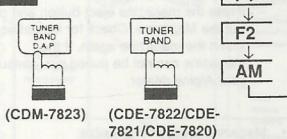
### Manual Tuning



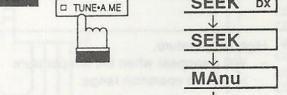
(CDM-7823)



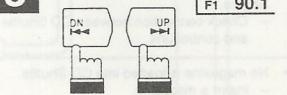
(CDE-7822/CDE-7821/CDE-7820)

**1**

Press repeatedly until the desired radio band is displayed.

**2**

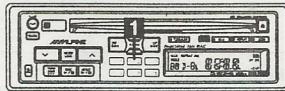
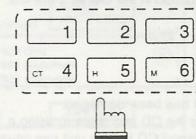
Press repeatedly until "MANu" is displayed.

**Note:** Initial mode is SEEK DX.**3**

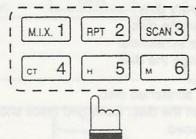
Press the DN or UP button to move downward or upward one step respectively until the desired station frequency is displayed.

## Radio Operation

### Manual Storing of Station Presets

**1**

(CDM-7823)



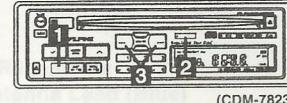
(CDE-7822/CDE-7821/CDE-7820)

- 1 Tune in the desired radio station you wish to store in the preset memory.
- 2 Press any one of the preset buttons (1 through 6) for at least 2 seconds until the frequency display blinks.
- 3 Press the preset button into which you wish to store the station while the display is blinking (within 5 seconds). The display stops blinking to indicate that the station has been memorized. The preset number is also displayed.
- 4 Repeat the procedure to store 5 other stations onto the same band. Use this procedure for other bands.

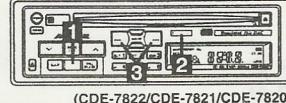
A total of 24 stations can be stored in the preset memory (6 stations for each band; FM1, FM2, AM and D.A.P.).

**Note:** If a preset memory has already been set in the same preset location, it will be cleared and the new station will be memorized.

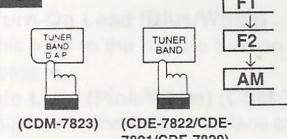
### Automatic Seek Tuning



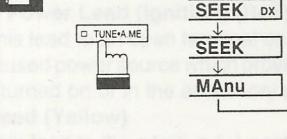
(CDM-7823)



(CDE-7822/CDE-7821/CDE-7820)

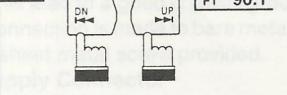
**1**

Press repeatedly until the desired radio band is displayed.

**2**

Press the button to illuminate the DX indicator in the display. With the DX mode activated, both strong and weak stations will be tuned in the Auto-Seek operation.

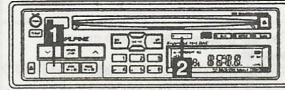
Press again to return to the local mode. The DX indicator will turn off and only strong radio stations will be tuned.

**3**

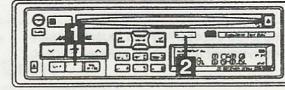
Press and release the DN or UP button to automatically seek a station downward or upward respectively.

**Note:** The ST indicator appears on the display when a Stereo FM station is tuned in. If this signal becomes weak, the ST indicator will turn off. During this time, the unit gradually switches from stereo to mono to reduce noise. As soon as the signal becomes strong enough, the unit switches back to the stereo mode.

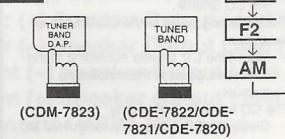
### Automatic Memory of Station Presets



(CDM-7823)



(CDE-7822/CDE-7821/CDE-7820)

**1**

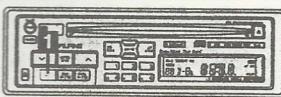
Press until the desired radio band is displayed.

**2**

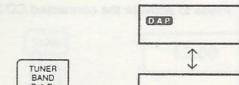
Press for at least 2 seconds. The tuner will automatically seek and store 6 strong stations in the selected band in order of signal strength. When the automatic storing has been completed, the tuner goes to the station stored in the preset location No. 1.

**Note:** If no stations are stored, the tuner will return to the original station you were listening to before the auto storing procedure began.

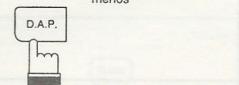
## Radio Operation



**1**

  
**(CDM-7823)**

At least 2 seconds  
Pendant au moins 2 secondes  
Durante 2 segundos por lo menos

  
**(CDE-7822/CDE-7821/CDE-7820)**

**Storing into Direct Access Preset (D.A.P.) Band**  
A combination of radio stations in any bands (up to 6 stations) can be manually preset onto the D.A.P. band.

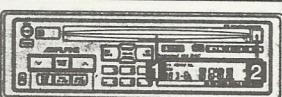
Press until the D.A.P. indicator appears.  
(CDM-7823 only: Press for at least 2 seconds.)

Press the BAND button to select FM or AM. The selected band will be displayed.  
To memorize stations onto the D.A.P. band, follow the steps for the automatic or Manual Storing of Station Presets section above.

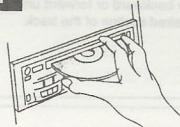
Note: When using the Automatic Memory function with D.A.P., the first 4 presets will be filled with FM stations and the last 2 are filled with AM stations.

Press until the D.A.P. indicator disappears to cancel the D.A.P. mode.

## CD Operation

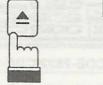


**1**

  
**LOAD**

Insert a disc half way into the slot with the label side facing up. The player automatically draws the disc into the disc compartment.  
The DISC indicator appears to show that a disc is loaded.

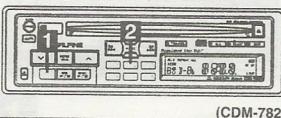
**2**

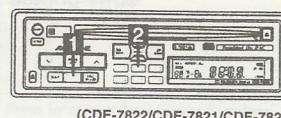
  
**EJEC**

Press when you want to eject the CD.

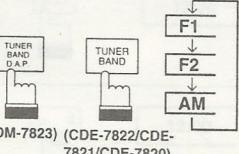
**Inserting/Ejecting Disc**

**Tuning to Preset Stations**

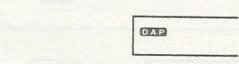
  
**(CDM-7823)**

  
**(CDE-7822/CDE-7821/CDE-7820)**

**1**

  
**(CDM-7823) (CDE-7822/CDE-7821/CDE-7820)**

Press repeatedly until the desired band is displayed.

  
**(CDE-7822/CDE-7821/CDE-7820)**

To select the D.A.P. band, press the button until the D.A.P. indicator appears.  
(CDM-7823 only: Press for at least 2 seconds.)

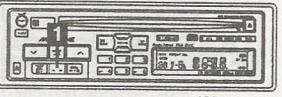
**2**

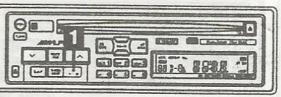
**F1 1 2 3**  
**CT 4 H 5 M 6**  
**(CDM-7823)**

**MIX 1 RPT 2 SCAN 3**  
**CT 4 H 5 M 6**  
**(CDE-7822/CDE-7821/CDE-7820)**

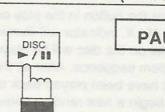
Press the station preset button that has your desired radio station in memory. The display shows the preset number, band and frequency of the station.

**Pause**

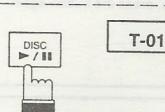
  
**(CDM-7823)**

  
**(CDE-7822/CDE-7821/CDE-7820)**

**1**

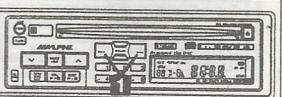
  
**DISC >|| PAU**

Press to temporarily stop CD playback.

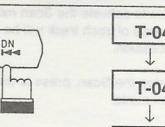
  
**DISC >|| T-01**

To resume playback, press again.

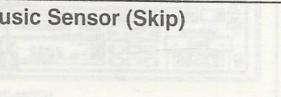
**Music Sensor (Skip)**

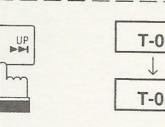
  
**(CDM-7823)**

**1**

  
**DN T-04 T-04 T-03**

Momentarily press the  $\ll$  DN button once to return to the beginning of the current track. If you wish to access a track further back, repeatedly press until you reach the desired track. (The example shows the Music Sensor operation starting from track No. 4.)

  
**(CDE-7822/CDE-7821/CDE-7820)**

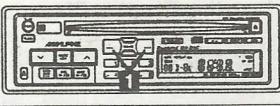
  
**UP T-04 T-05**

Press the UP  $\gg$  button once to advance to the beginning of the next track. If you wish to access a track further ahead, press repeatedly until the desired track is reached.

**Note:** The music sensor feature is functional in the play or pause mode.

## CD Operation

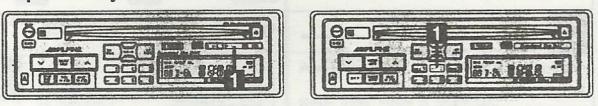
**Fast Forward and Backward**



**1**

Press and hold the **DN** or **UP** button to quickly move backward or forward until you reach the desired section of the track.

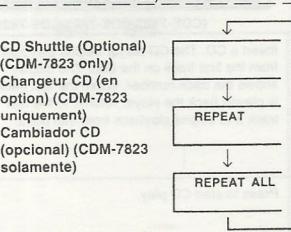
**Repeat Play**



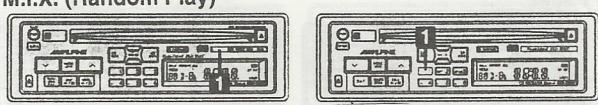
**1**

Press to play back repeatedly the track being played. The REPEAT indicator appears and the track will be played repeatedly. Press again to deactivate the repeat play.

**Note:** If a CD Shuttle is connected and the REPEAT ALL mode is selected, the unit repeatedly plays back all the tracks on the disc selected.



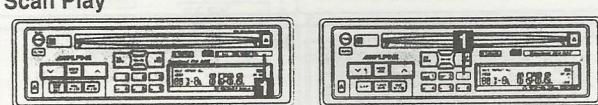
**M.I.X. (Random Play)**



**1**

Press the button in the play or pause mode. The M.I.X. indicator will illuminate and the tracks on the disc will be played back in a random sequence. After all the tracks on the disc have been played back once, the player will begin a new random sequence play until the M.I.X. mode is canceled. To cancel M.I.X. play, press the button again.

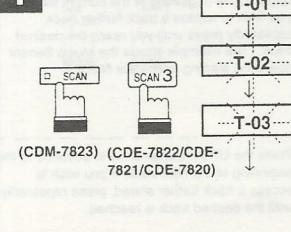
**Scan Play**



**1**

Press to activate the Scan mode. The first 10 seconds of each track will be played back in succession.

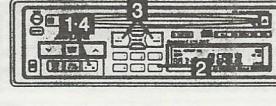
To stop the Scan, press to deactivate the Scan mode.



## CD Operation

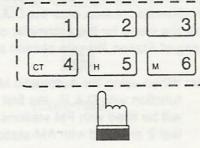
**Playing CD Shuttle (Optional) (CDM-7823 Only)**

The CDM-7823 can be used to control an optional Alpine 6-disc CD Shuttle.



**1**

Press to activate the connected CD Shuttle.



**2**

Press these buttons to select the desired disc loaded in the CD Shuttle.



**3**

Press to select the desired track on the selected disc.

D-1 T-01



**4**

Press to play back the selected track. Press again to pause playback.

**Note:** Other CD Shuttle operations are the same as the CDM-7823 CD player.

## Clock Operation

## Disassembly Instructions

		Displaying Time
1		<p>Press to display the time. The unit displays the time.</p> <p><b>Note:</b> When the tuner or CD is operated in the Clock mode, the display will show their functions for 5 seconds before returning to the Time display. The display shows the time even if the power to the unit is turned off, as long as the ignition key is on.</p>
2		<p>Press to turn off the time and to show other functions.</p>
		Setting Time
1		<p>Press for at least 3 seconds until the time indication blinks.</p>
2		<p>Press while the time indication is blinking to set seconds to "0".</p>
3		<p><b>Example:</b> To adjust to 9:35</p> <p>Press the "H" button to adjust the hours while the time indication is blinking.</p>
4		<p>Press the "M" button to adjust the minutes while the time indication is blinking. The time is automatically set. The time indication will stop blinking. 5 seconds after adjusting the minutes.</p>

# Disassembly Instructions

## 1. Removal of Nose Unit

- (1) Refer to the Owner's Manual (Part No. 68P61329W58).

## 2. Removal of Front Escutcheon

- (1) After remove the top cover and face plate, remove six Hooks (A) as shown in Figure 1.

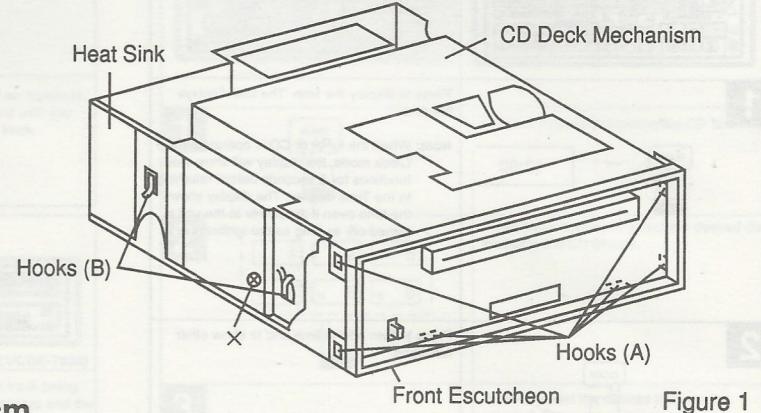


Figure 1

## 3. Removal of CD Deck Mechanism

- (1) After removal of the Front Escutcheon, remove four screws marked "○" as shown in Figure 2.
- (2) Disconnect one connector from the Main P.C.Board.

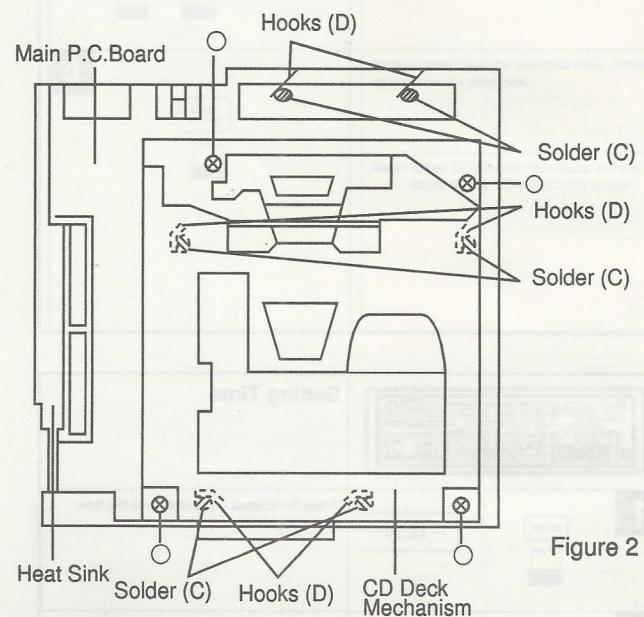


Figure 2

## 4. Removal of Main P.C.Board

- (1) After removal of CD Deck Mechanism, remove the Heat Sink by removing two Hooks (B) and a screw marked "X" as shown in Figure 1.
- (2) Remove two screws marked "△" as shown in Figure 3.
- (3) Remove the solder (C) and six Hooks (D) as shown in Figure 2.

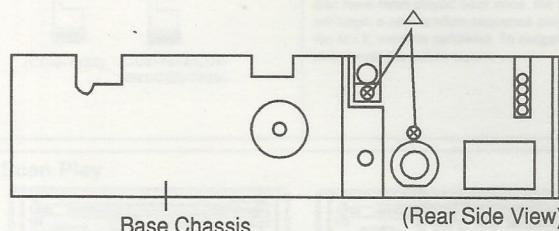


Figure 3

## 5. Removal of Front P.C.Board

- (1) After removal of Nose Unit, remove four screws marked "□" and one Hook (E) as shown in Figure 4.

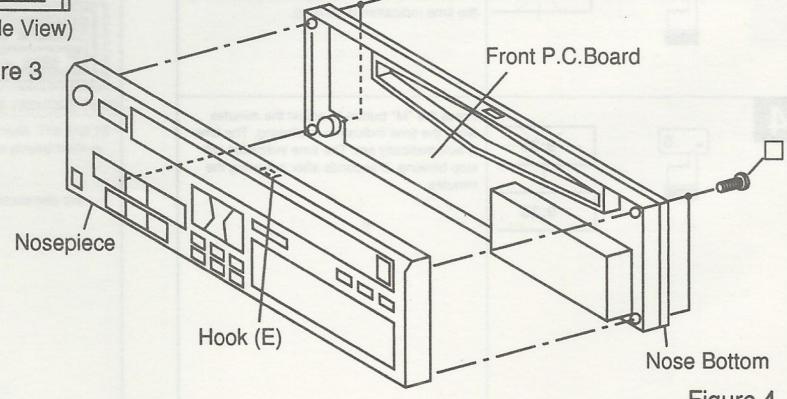


Figure 4

# Adjustment Procedures

## (1) Connections

### 1. FM SECTION

#### (1) Dummy Antenna Circuit

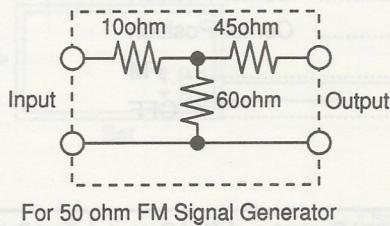


Figure 5

#### (2) Connections

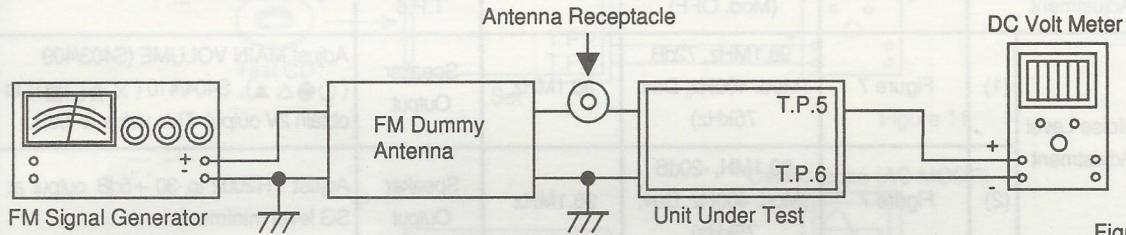


Figure 6

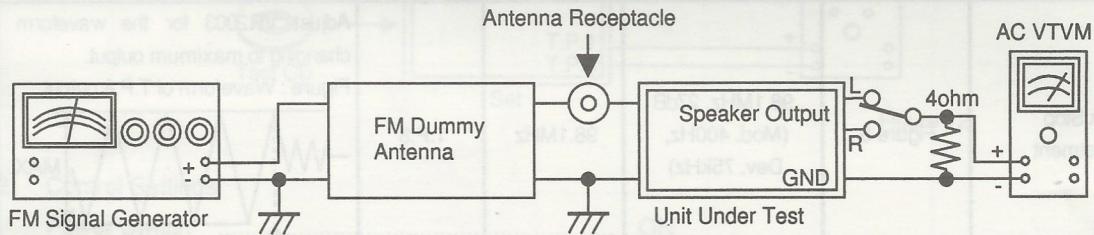


Figure 7

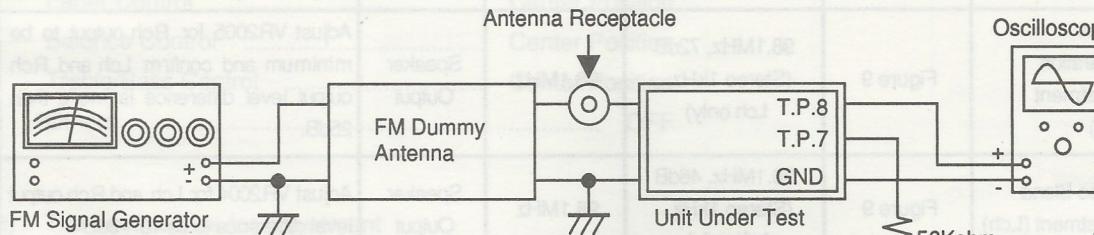


Figure 8

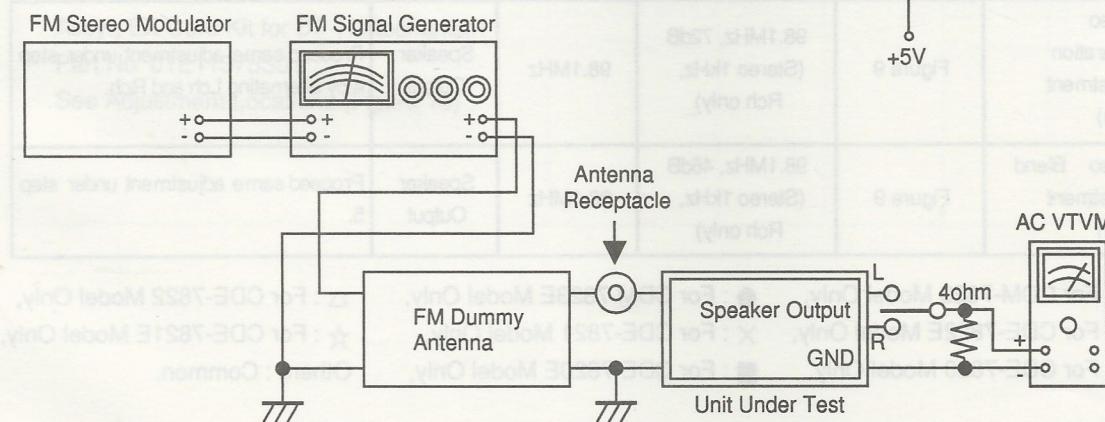
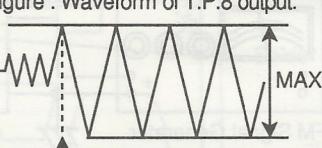


Figure 9

## (3) Control Settings

Power Switch ..... ON  
 Fader Control ..... Center Position  
 Balance Control ..... Center Position  
 Treble Control ..... Center Position  
 Bass Control ..... Center Position  
 Band Switch ..... FM  
 Others ..... OFF

## (4) Adjustment Procedures

Step	Description		Connection	Signal Generator	Dial Control	Test Point	Adjustment
1	IF Adjustment		Figure 6	98.1MHz, 72dB (Mod. OFF)	98.1MHz	T.P.5 T.P.6	Adjust L2005 to $0 \pm 15\text{mV}$ .
2	Noise Level Adjustment	(1)	Figure 7	98.1MHz, 72dB (Mod. 400Hz, Dev. 75kHz)	98.1MHz	Speaker Output	Adjust MAIN VOLUME (S403/409 (○●△▲), S404/410 (×☆□■)) to obtain 2V output. This value is 0dB.
		(2)	Figure 7	98.1MHz, -20dB (Mod. 400Hz, Dev. 75kHz)	98.1MHz	Speaker Output	Adjust VR2002 to $30 \pm 5\text{dB}$ output at SG level minimum.
3	Seek Stop Adjustment		Figure 8	98.1MHz, 27dB (Mod. 400Hz, Dev. 75kHz)	98.1MHz	T.P.8	Adjust VR2003 for the waveform changing to maximum output. Figure : Waveform of T.P.8 output.  Stop the adjust VR2003 at this time.
4	Stereo Separation Adjustment (Lch)		Figure 9	98.1MHz, 72dB (Stereo 1kHz, Lch only)	98.1MHz	Speaker Output	Adjust VR2005 for Rch output to be minimum and confirm Lch and Rch output level difference is more than 25dB.
5	Stereo Blend Adjustment (Lch)		Figure 9	98.1MHz, 46dB (Stereo 1kHz, Lch only)	98.1MHz	Speaker Output	Adjust VR2004 for Lch and Rch output level difference to be $10 \pm 3\text{dB}$
6	Stereo Separation Adjustment (Rch)		Figure 9	98.1MHz, 72dB (Stereo 1kHz, Rch only)	98.1MHz	Speaker Output	Proceed same adjustment under step 4 by alternating Lch and Rch.
7	Stereo Blend Adjustment (Rch)		Figure 9	98.1MHz, 46dB (Stereo 1kHz, Rch only)	98.1MHz	Speaker Output	Proceed same adjustment under step 5.

Note : ○ : For CDM-7823 Model Only, ● : For CDM-7823E Model Only,  
 ▲ : For CDE-7822E Model Only, × : For CDE-7821 Model Only,  
 □ : For CDE-7820 Model Only, ■ : For CDE-7820E Model Only,

△ : For CDE-7822 Model Only,  
 ☆ : For CDE-7821E Model Only,  
 Others : Common.

## 2 Compact Disc SECTION

### (1) Connections

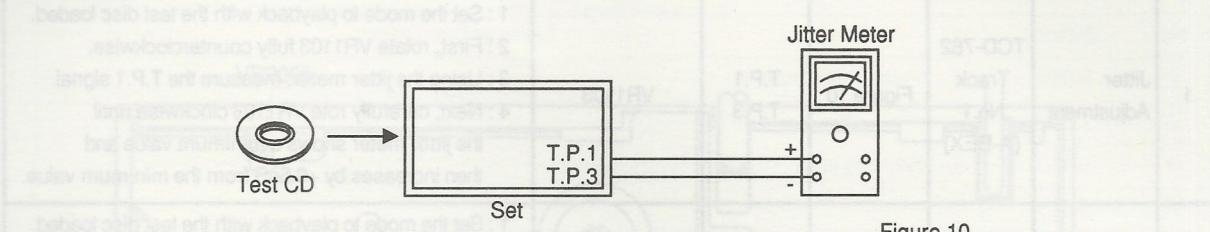


Figure 10

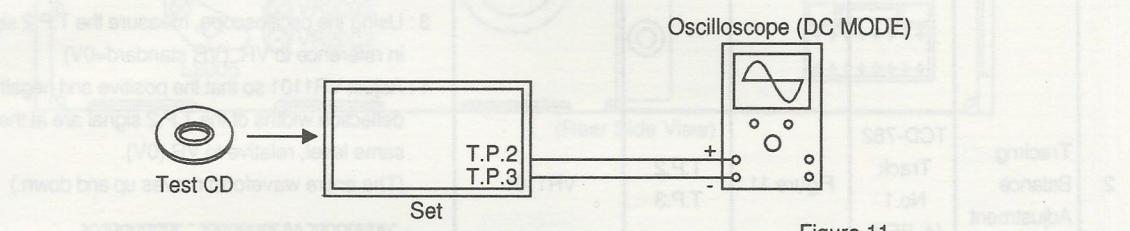


Figure 11

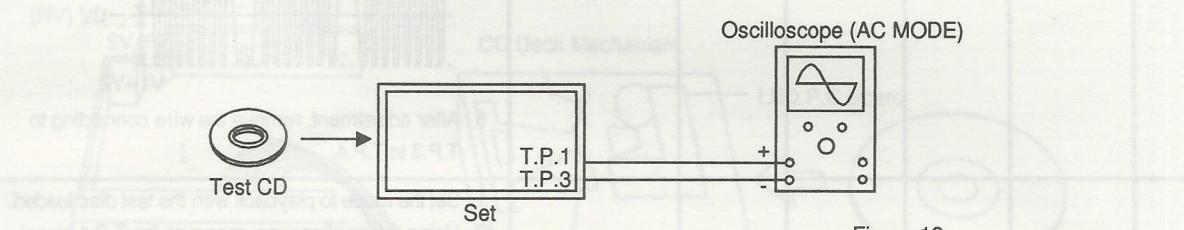


Figure 12

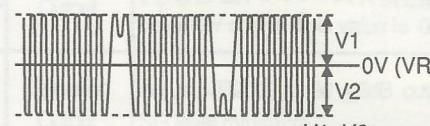
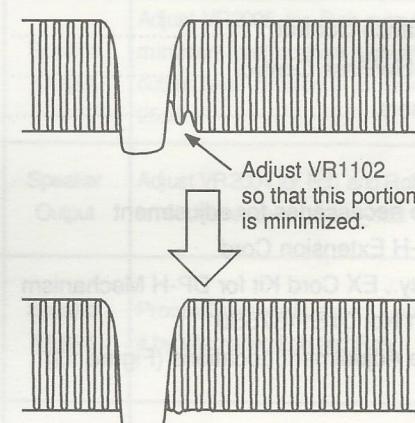
### (2) Control Settings

- |                           |                 |
|---------------------------|-----------------|
| Power Switch .....        | ON              |
| Fader Control .....       | Center Position |
| Balance Control .....     | Center Position |
| Treble/Bass Control ..... | Center Position |
| Others .....              | OFF             |

### (3) The necessities for adjustment

- DP-H Extension Cord
- Assy., EX Cord Kit for DP-H Mechanism
- Part No. 01E11375S01
- See Adjustment Locations (Figure 13)

## (4) Adjustment Procedures

Step	Description	Test CD	Connection	Test Point	Adjustment Point	Adjustment
1	Jitter Adjustment	TCD-782 Track No.1 (A-BEX)	Figure 10	T.P.1 T.P.3	VR1103	<p>1 : Set the mode to playback with the test disc loaded.      2 : First, rotate VR1103 fully counterclockwise.      3 : Using the jitter meter, measure the T.P.1 signal.      4 : Next, carefully rotate VR1103 clockwise until the jitter meter shows a minimum value and then increases by +0.5nS from the minimum value.</p>
2	Tracking Balance Adjustment	TCD-782 Track No.1 (A-BEX)	Figure 11	T.P.2 T.P.3	VR1101	<p>1 : Set the mode to playback with the test disc loaded.      2 : Use wire to connect T.P.3 to T.P.4.      3 : Using the oscilloscope, measure the T.P.2 signal in reference to VR. (VR standard=0V)      4 : Adjust VR1101 so that the positive and negative deflection widths of the T.P.2 signal are at the same level, relative to VR (0V).      (The entire waveform moves up and down.)</p>  <p>5 : After adjustment, remove the wire connecting to T.P.3 to T.P.4.</p>
3	Tracking Offset Adjustment	TCD-721 Track No.6 (A-BEX)	Figure 12	T.P.1 T.P.3	VR1102	<p>1 : Set the mode to playback with the test disc loaded.      2 : Using the oscilloscope, measure the T.P.1 signal.      3 : Adjust VR1102 in order to minimize the waveform induced by the reaction to the omission of the T.P.1 signal.      4 : Conduct the tracking balance adjustment once again.</p> 

Note :  For CDM-7823 Model Only  
 For CDE-7822E Model Only  
 For CDE-7822E Model Only  
 For CDE-7820 Model Only

For CDM-7823E Model Only  
 For CDE-7821 Model Only  
 For CDE-7821E Model Only  
 For CDE-7820E Model Only

For CDE-7822 Model Only  
 For CDE-7822E Model Only  
 For CDE-7821 Model Only  
 For CDE-7821E Model Only  
 Others - Common

# Adjustment Locations

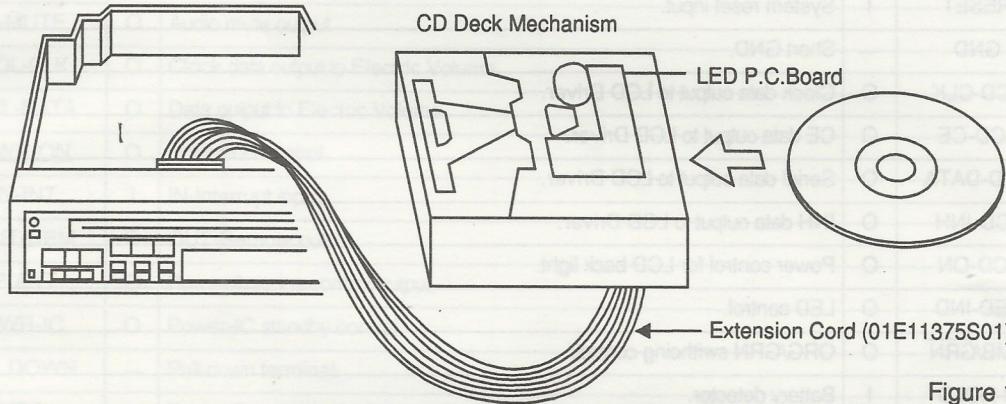
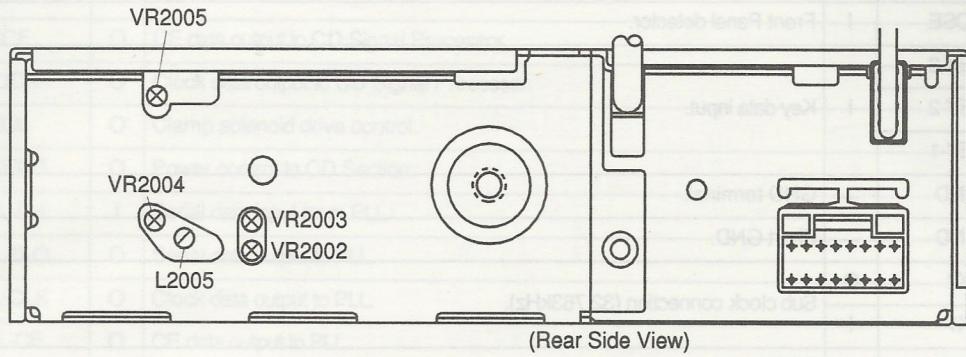


Figure 13

Note : For the Adjustment parts (S403/409 (○●△▲), S404/410 (×☆□■), VR1101, 1102, 1103) and Test Points, refer to the Parts Layout on P.C. Boards and Wiring Diagram.

Note : ○ : For CDM-7823 Model Only, ● : For CDM-7823E Model Only, △ : For CDE-7822 Model Only,  
 ▲ : For CDE-7822E Model Only, × : For CDE-7821 Model Only, ☆ : For CDE-7821E Model Only,  
 □ : For CDE-7820 Model Only, ■ : For CDE-7820E Model Only, Others : Common.

# Description of IC Terminal

75177W02 : IC601

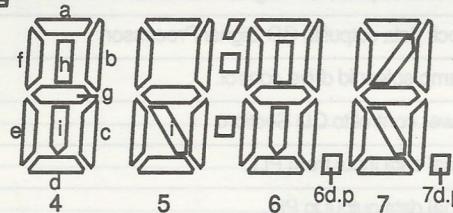
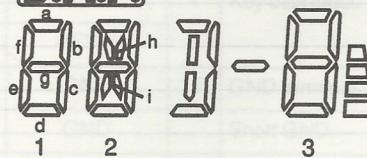
No.	Symbol	I/O	Terminal Description
1	NOSE	I	Front Panel detector.
2	KEY-3		
3	KEY-2	I	Key data input.
4	KEY-1		
5	GND	—	GND terminal.
6	GND	—	Short GND.
7	X2	O	Sub clock connection (32.763kHz).
8	X1	I	
9	GND	—	GND terminal.
10	OSC1	I	
11	OSC2	O	System clock connection (7.15909MHz).
12	RESET	I	System reset input.
13	GND	—	Short GND.
14	LCD-CLK	O	Clock data output to LCD Driver.
15	LCD-CE	O	CE data output to LCD Driver.
16	LCD-DATA	O	Serial data output to LCD Driver.
17	LCD-INH	O	INH data output to LCD Driver.
18	LCD-ON	O	Power control for LCD back light.
19	LED-IND	O	LED control.
20	AMB/GRN	O	ORG/GRN switching control.
21	B-HOLD	I	Battery detector.
22	A-HOLD	I	ACC detector.
23	L-CONT	O	Power control for DISC detector.
24	PH (C)	I	8cm DISC detector.
25	PH (A)	I	DISC IN detector.
26	PH (B)	I	EJECT END detector.
27	PH (D)	I	8cm DISC END detector.
28	PH (E)	I	Reload detector.
29	LIMIT-SW	I	Limit switch detector.
30	CAM-END	I	DISC clamp detector.
31	LOAD-FWD	O	Loading Motor FWD driving control.
32	LOAD-BWD	O	Loading Motor BWD driving control.
33	LOCK	O	Lock status output.
34	A-HOLD	—	Short A-HOLD terminal.
35			
{	PULL DOWN	—	Pull down terminal.
38			
39	BUS0	I/O	Command data input/output to CD Signal Processor.

No.	Symbol	I/O	Terminal Description
40	BUS1		
41	BUS2	I/O	Command data input/output to CD Signal Processor.
42	BUS3		
43	CCE	O	CE data output to CD Signal Processor.
44	BUCK	O	Clock data output to CD Signal Processor.
45	SOL	O	Clamp solenoid drive control.
46	V-CONT	O	Power control to CD Section.
47	PLL-D-I	I	Serial data input from PLL.
48	PLL-D-O	O	Serial data output to PLL.
49	PLL-CLK	O	Clock data output to PLL.
50	PLL-CE	O	CE data output to PLL.
51	SD/SI	I	Station detector/Stereo signal input.
52	NFP-OUT2	O	Fader output control at NFP.
53	NFP-OUT1		
54	A-MUTE	O	Audio mute output.
55	VOL-CLK	O	Clock data output to Electric Volume.
56	VOL-DATA	O	Data output to Electric Volume.
57	PWR-ON	O	Power-on control.
58	IN-INT	I	IN-Interrupt input.
59	OUT-REM	O	OUT-Remote output.
60	P-ANT	O	Power Antenna control output.
61	PWR-IC	O	Power-IC standby control.
62	PLL DOWN	—	Pull down terminal.
63	VCC	—	Power Supply terminal.
64	INTLZ	I	Initialize action detection input.
65	AREA-1		
66	AREA-2	I	Model Set up.
67	AREA-3		
68	NOSE-PWR	O	Power control to LCD Driver.
69	REMOCON	I	Remocon data input.
70	CHG-D-I	I	Bus Data input from CD Changer.
71	CHG-D-O	O	Bus data output to CD Changer.
72	AVCC	—	Analog Power Supply to A/D converter.
73	AREA-4	I	Model Set up.
74			
{	PLL DOWN	—	Pull down terminal.
76			
77	GND	—	Short GND.
78			
79	S-METER	I	Signal meter input.
80	T-SENS	I	Thermal sensor input.

# LCD Display

**M.I.X. REPEAT ALL**

**D.A.P.**



**ST DX**

**LOUD**

PAD No.	1	2	3	4	5	6	7	8	9
COM.1	COM.1			LOUD	ST		7d	7i	7h
COM.2		COM.2			DX	7d.p	7c	7b	7a

10	11	12	13	14	15	16	17	18
7g	6d.p	6c	6b	6g	6d	□	5i	5a
7f	7e	6h.i	6a	6f	6e	□	5c	5b

19	20	21	22	23	24	25	26	27
5g	5d	4c	4b	4g	4d	□	3f	3g
5f	5e	4h.i	4a	4f	4e	3a.d	3b	3c

28	29	30	31	32	33	34	35	36
3e	2d	2i	2h	2f				
□ -	2c	2g	2b	2a	ALL	REPEAT		2e

37	38	39	40	41
1d	D.A.P.	1c		1g
1e	M.I.X.	1b	1a	1f

LOCK — Lock status output  
A-HOLD — Short A-HOLD terminal

PULL DOWN — Pull down terminal

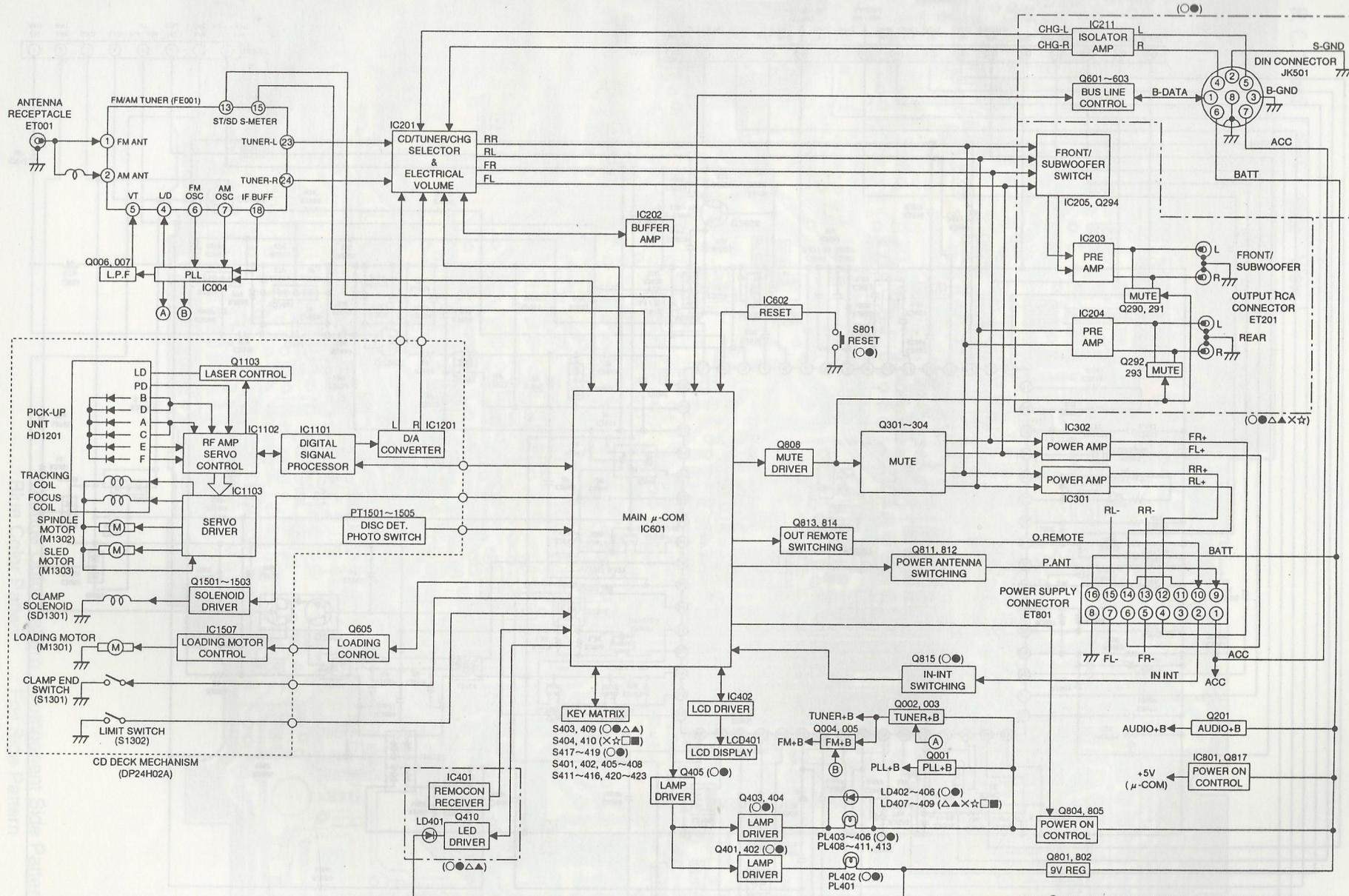
GND — Short GND

SIGNAL LENGTH — Signal length input

INPUT SOURCE SELECT — Input source select

TEST — Test

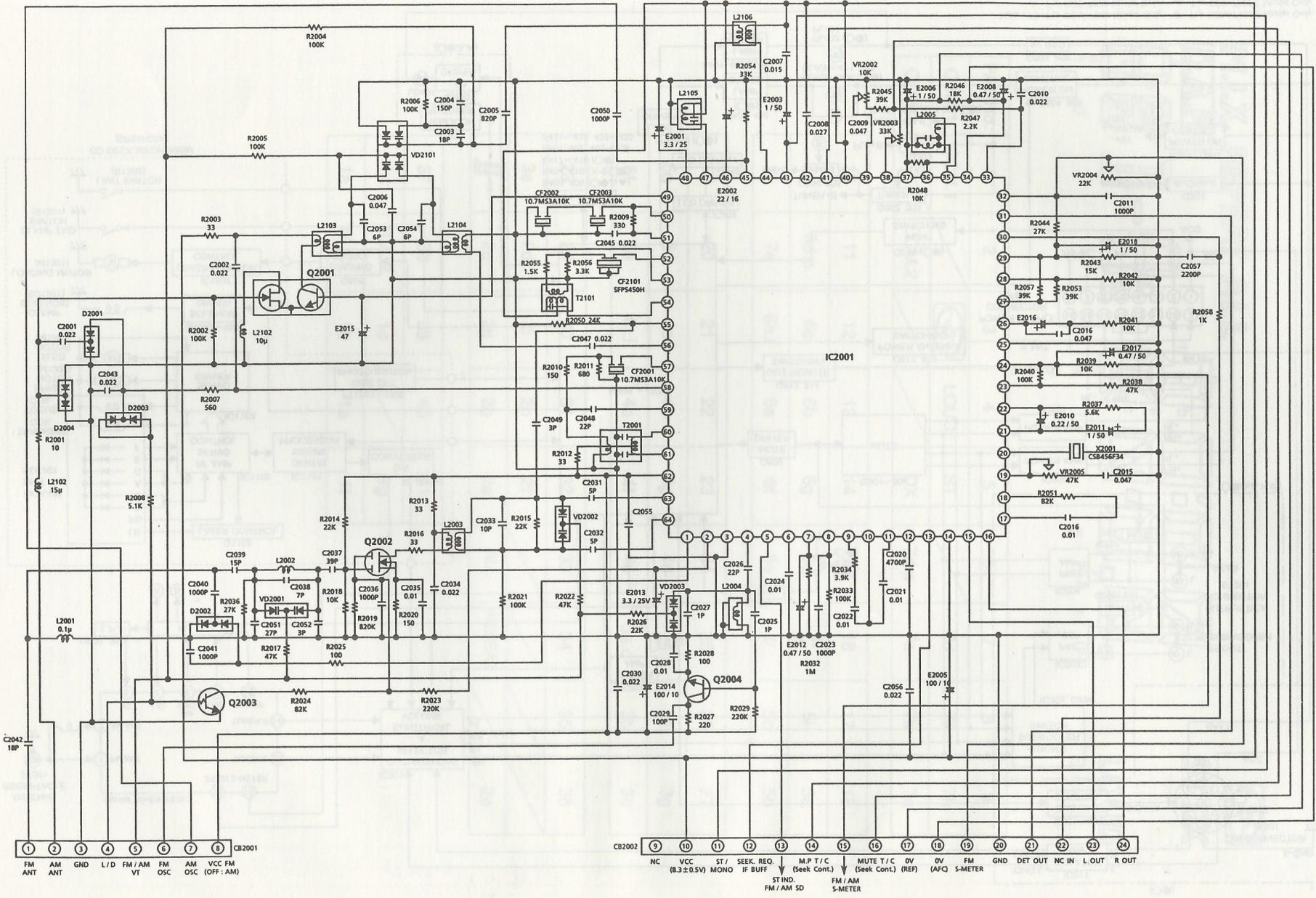
# Block Diagram



Note : ○ : For CDM-7823 Model Only, ● : For CDM-7823E Model Only,  
 △ : For CDE-7822 Model Only, ▲ : For CDE-7822E Model Only,  
 × : For CDE-7821 Model Only, ☆ : For CDE-7821E Model Only,  
 □ : For CDE-7820 Model Only, ■ : For CDE-7820E Model Only,  
 Others : Common.

# Tuner Schematic Diagram

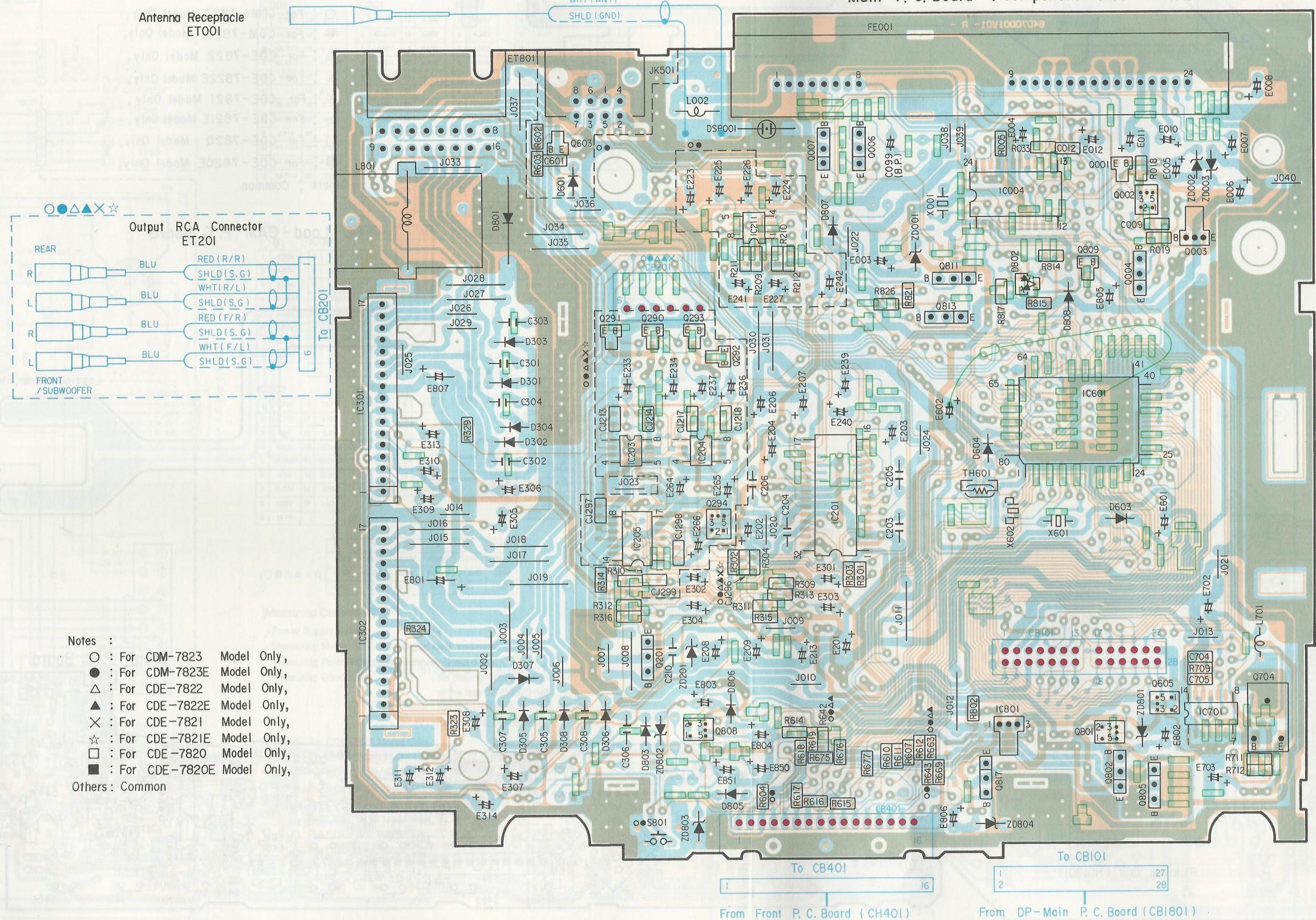
Block Diagram



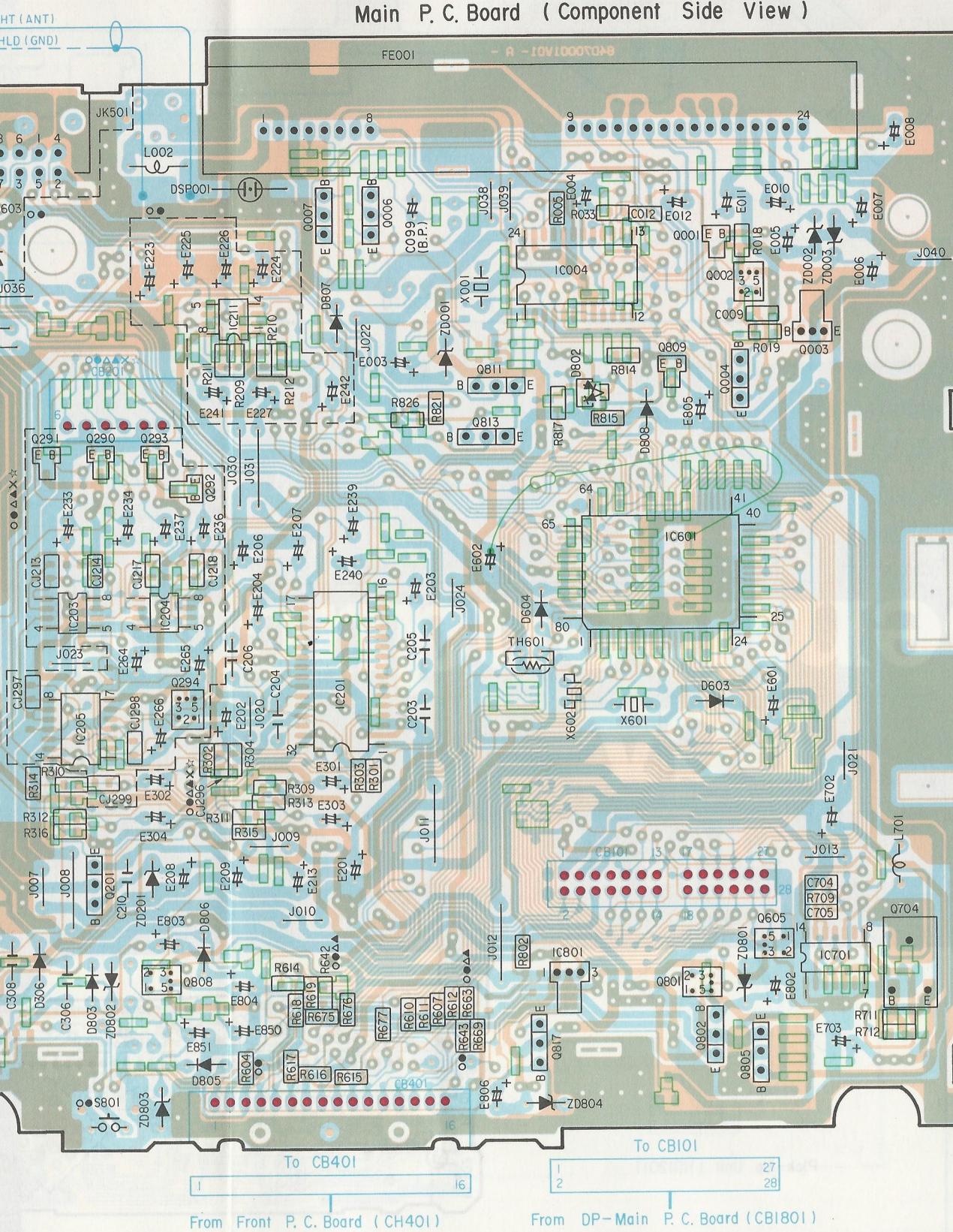
# Parts Layout on P.C. Boards and Wiring Diagram (1/2)

1

Main P.C. Board (Component Side View)

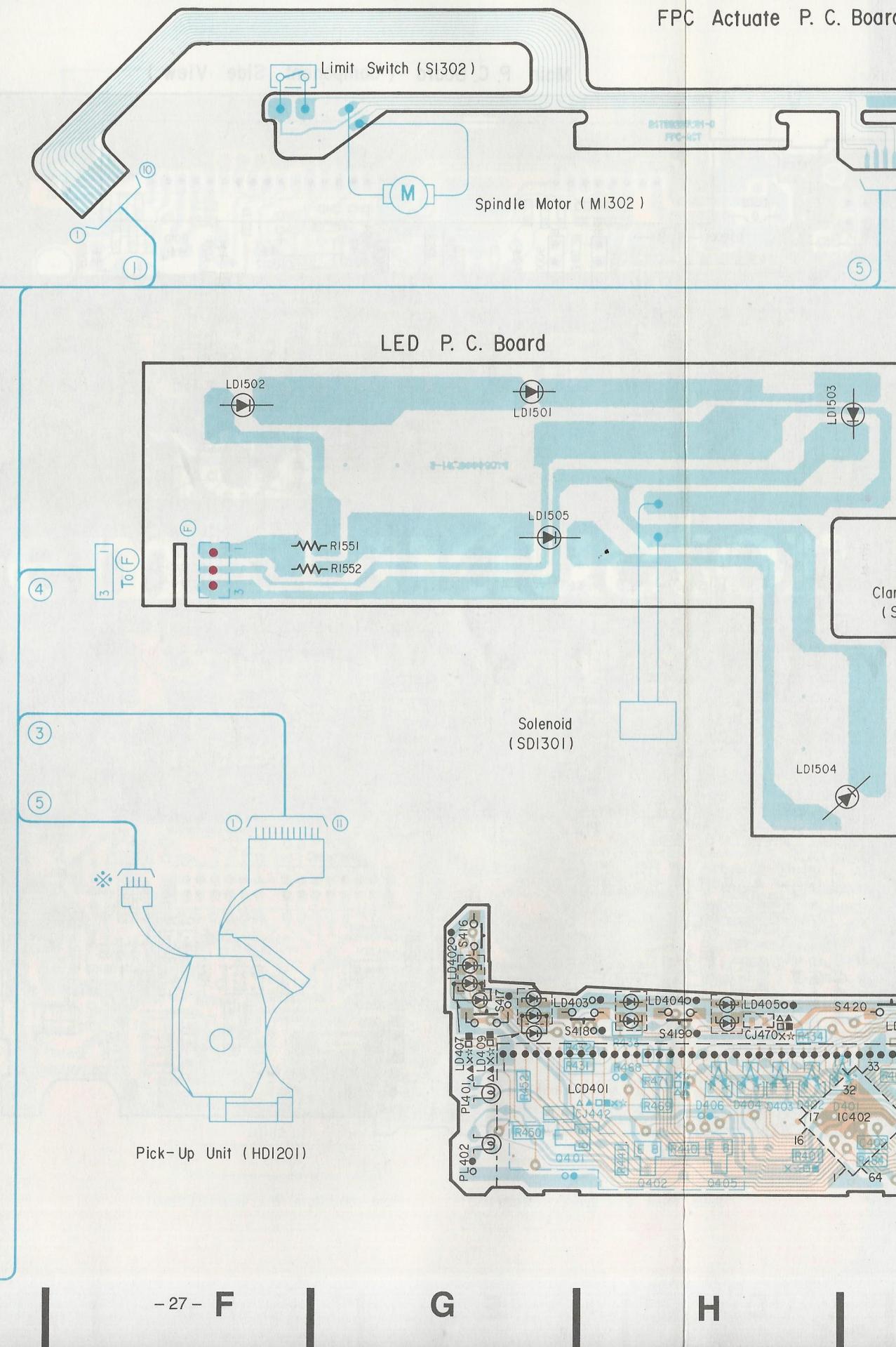
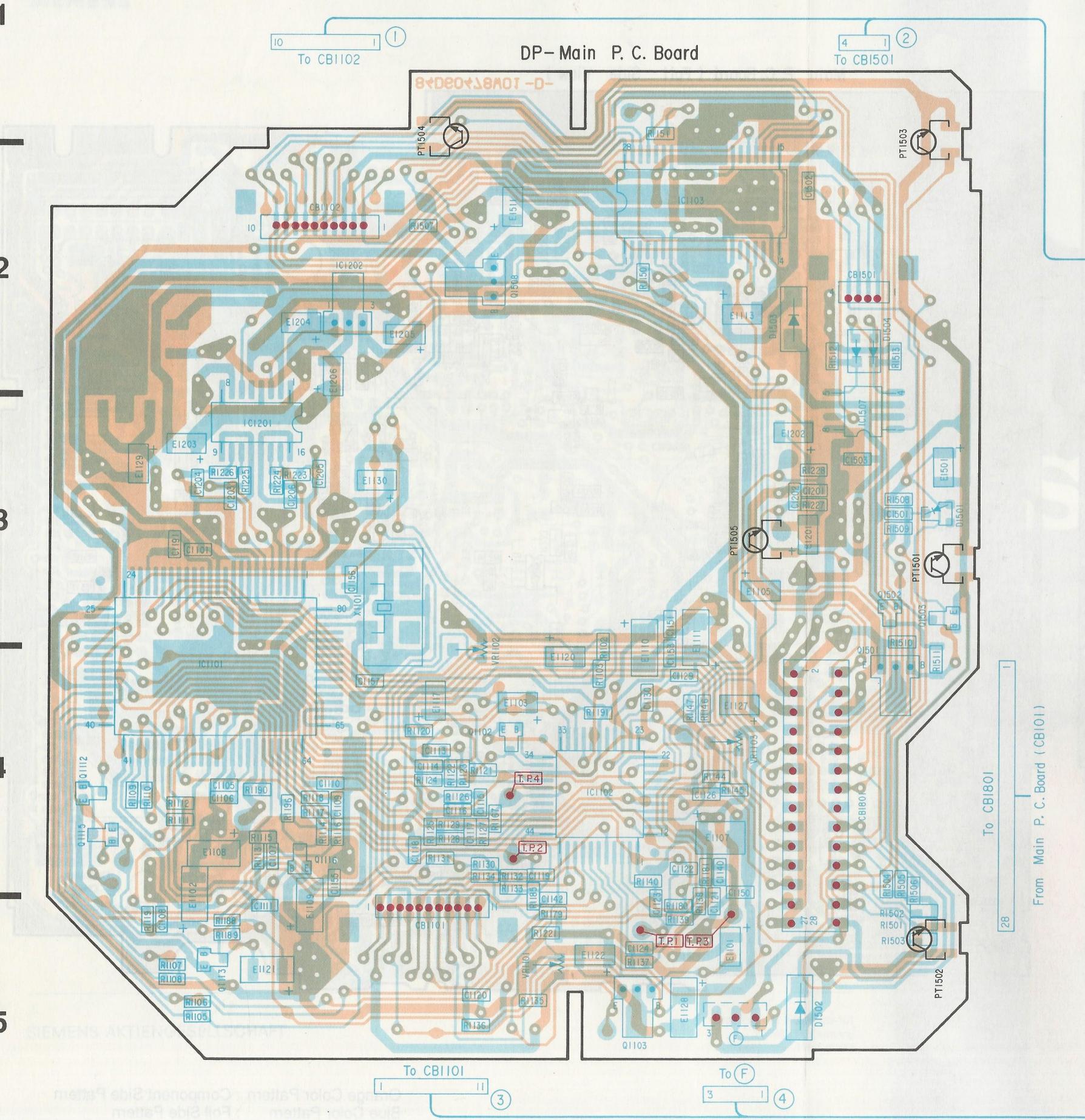


# Diagram (1/2)

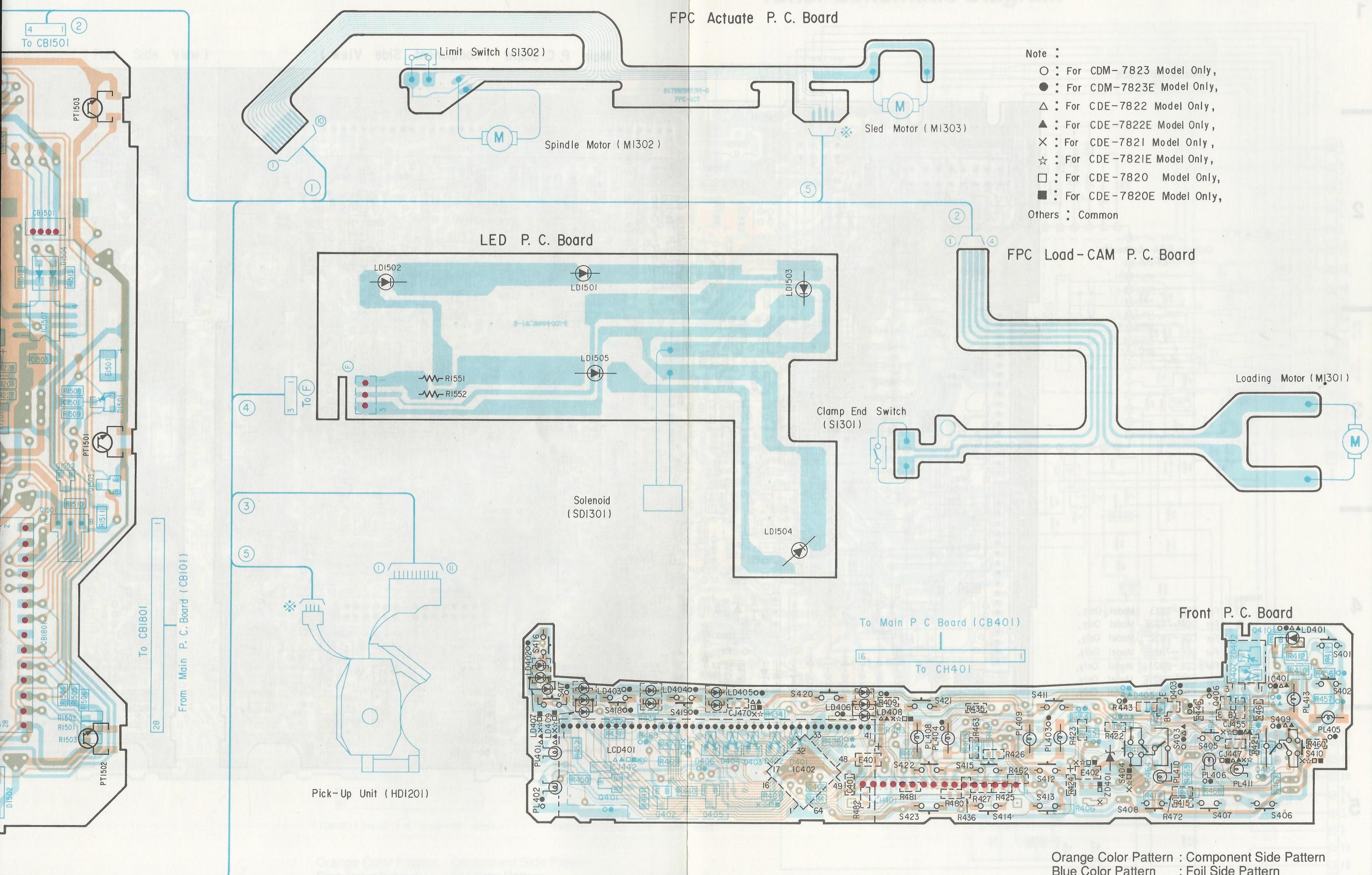


## **Parts Layout on P.C. Boards and Wiring Diagram (2/2)**

## All P.C. Boards viewed from soldered side.

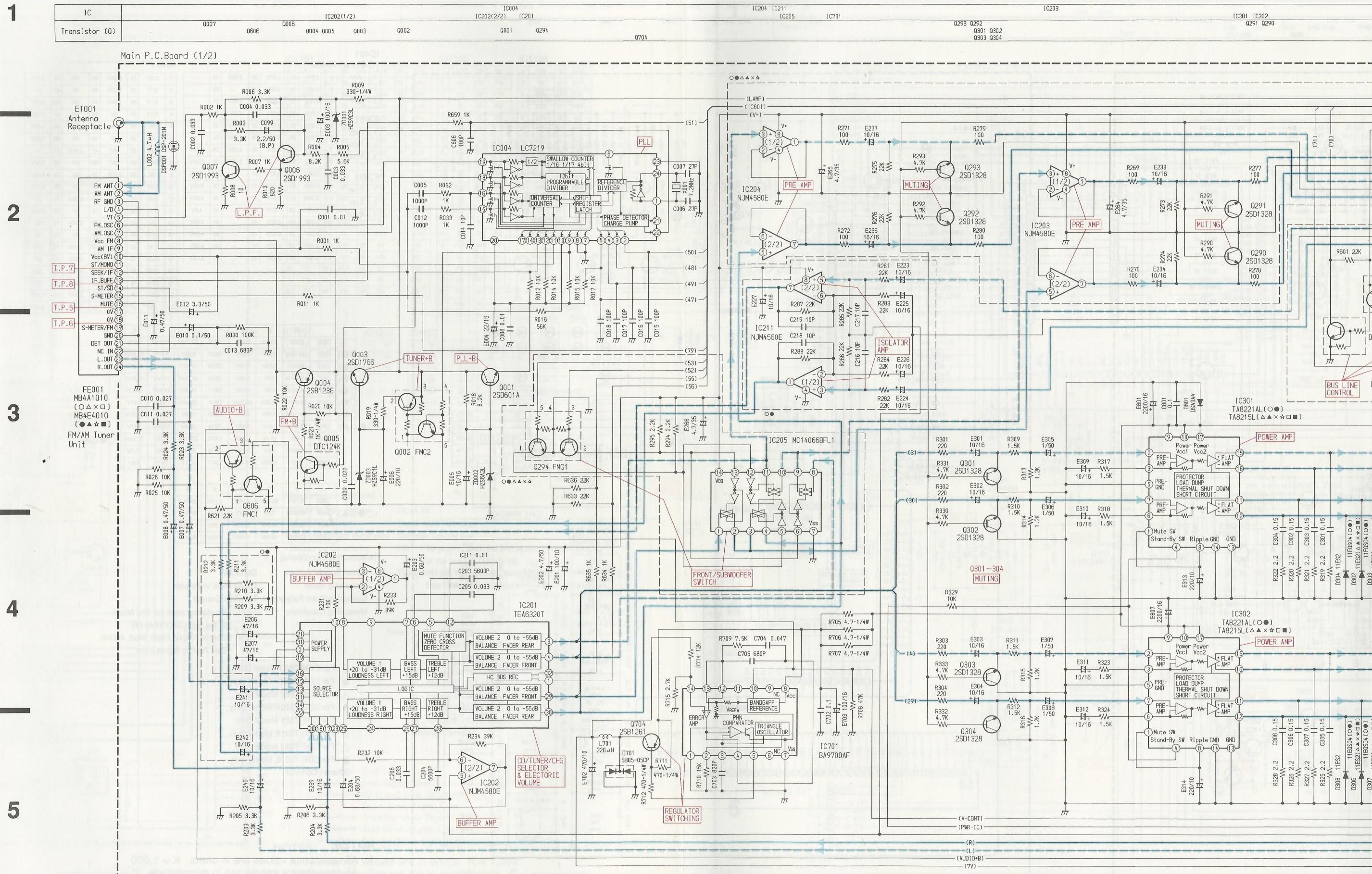


**(2/2) All P.C. Boards viewed from soldered side**



Orange Color Pattern : Component Side Pattern  
Blue Color Pattern : Foil Side Pattern

## Schematic Diagram (1/3)



A

**B** - 29 -

C

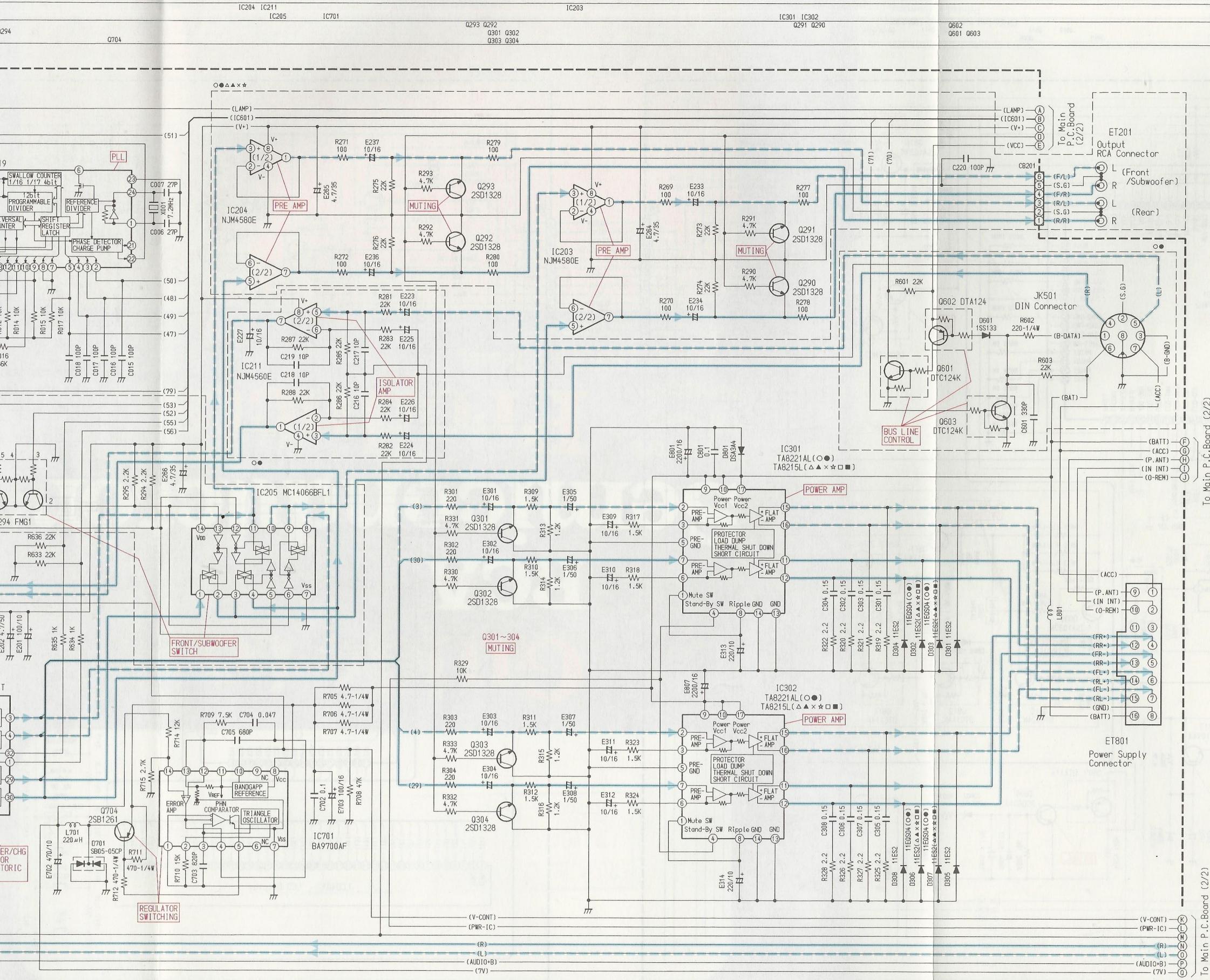
D

E

F - 30 -

G

1



D

E

F - 30 -

G

H

I

J - 31 -

K

IC204 (○●△▲×☆)		IC203 (○●△▲×☆)		IC202 (○●△▲×☆)		IC201 (○●△▲×☆)		IC004 (○●△▲×☆)	
1	2.18V	13	3.62V	1	5.12V	17	4.39V	1	4.41V
2	44.3mV	14	4.88V	2	40.4mV	18	4.39V	2	4.41V
3	44.5mV	15	41.9mV	3	4.38V	19	8.62V	3	4.41V
4	44.9mV	16	49.4mV	4	4.38V	20	4.39V	4	47mV
5	4.9V	17	—	5	4.38V	21	4.4V	5	61.1mV
6	—	18	67.7mV	6	4.39V	22	—	6	4.41V
7	39.5mV	19	2.56V	7	4.39V	23	4.41V	7	4.37V
8	39.5mV	20	4.93V	8	4.33V	24	—	8	4.24V
9	3.61V	21	—	9	—	25	4.35V	9	4.41V
10	44.7mV	22	1.25V	10	4.4V	26	4.4V	10	4.41V
11	44.8mV	23	40.9mV	11	—	27	4.41V	11	4.41V
12	86.7mV	24	2.5V	12	8.63V	28	4.4V	12	64.9mV
13	4.38V	29	4.41V	13	4.4V	29	4.41V	13	65.1mV
14	—	30	4.41V	14	—	30	4.41V	14	8.68V
15	4.39V	31	8.72V	15	8.71V	31	8.72V	15	8.72V
16	4.39V	32	5.17V	16	4.39V	32	5.17V	16	35.2mV
17	35.2mV	14	8.71V	17	35.2mV	14	8.71V	17	4.41V

(○●△▲×☆)		E		C		B	
Q001	4.91V	1	13.86V	5.51V			
Q003	8.91V	2	13.87V	9.48V			
Q004	8.92V	3	8.89V	8.2V			
Q005	36.6mV	4	33.8V	36.8mV			
Q006	0.66V	5	42.9mV	14.36.8mV			
Q007	50mV	6	5.87V	15.683V			
Q290	32.3mV	7	5.88V	16.688V			
Q291	32.4mV	8	5.88V	17.14.07V			
Q292	32.5mV	9	14.1V				
Q293	32.4mV	10	14.1V				
Q301	47.9mV	11	46.5mV	0.75V			
Q302	50.5mV	12	50.3mV	0.75V			
Q303	50.6mV	13	48.8mV	0.75V			
Q304	48.9mV	14	48.8mV	0.75V			
Q305	24.2mV	15	5.12V	24.2mV			
Q306	30.1mV	16	8.28V	39.5mV			
Q704	14.88V	17	7.14V	14.5V			

1	2	3	4	5
Q002	40mV	13.77V	13.85V	3.61V
Q294	63.2mV	8.73V	31.5mV	31.5mV

Q002	40mV	13.77V	13.85V	3.61V
Q294	63.2mV	8.73V	31.5mV	31.5mV
Q606	8.7V	0.1V	8.7V	0V

Q002	40mV	13.77V	13.85V	3.61V
Q294	63.2mV	8.73V	31.5mV	31.5mV

Q606	8.7V	0.1V	8.7V	0V
------	------	------	------	----

Q002	40mV	13.77V	13.85V	3.61V
Q294	63.2mV	8.73V	31.5mV	31.5mV

Q606	8.7V	0.1V	8.7V	0V
------	------	------	------	----

Q002	40mV	13.77V	13.85V	3.61V
Q294	63.2mV	8.73V	31.5mV	31.5mV

Q606	8.7V	0.1V	8.7V	0V
------	------	------	------	----

Q002	40mV	13.77V	13.85V	3.61V
Q294	63.2mV	8.73V	31.5mV	31.5mV

Q606	8.7V	0.1V	8.7V	0V
------	------	------	------	----

Q002	40mV	13.77V	13.85V	3.61V
Q294	63.2mV	8.73V	31.5mV	31.5mV

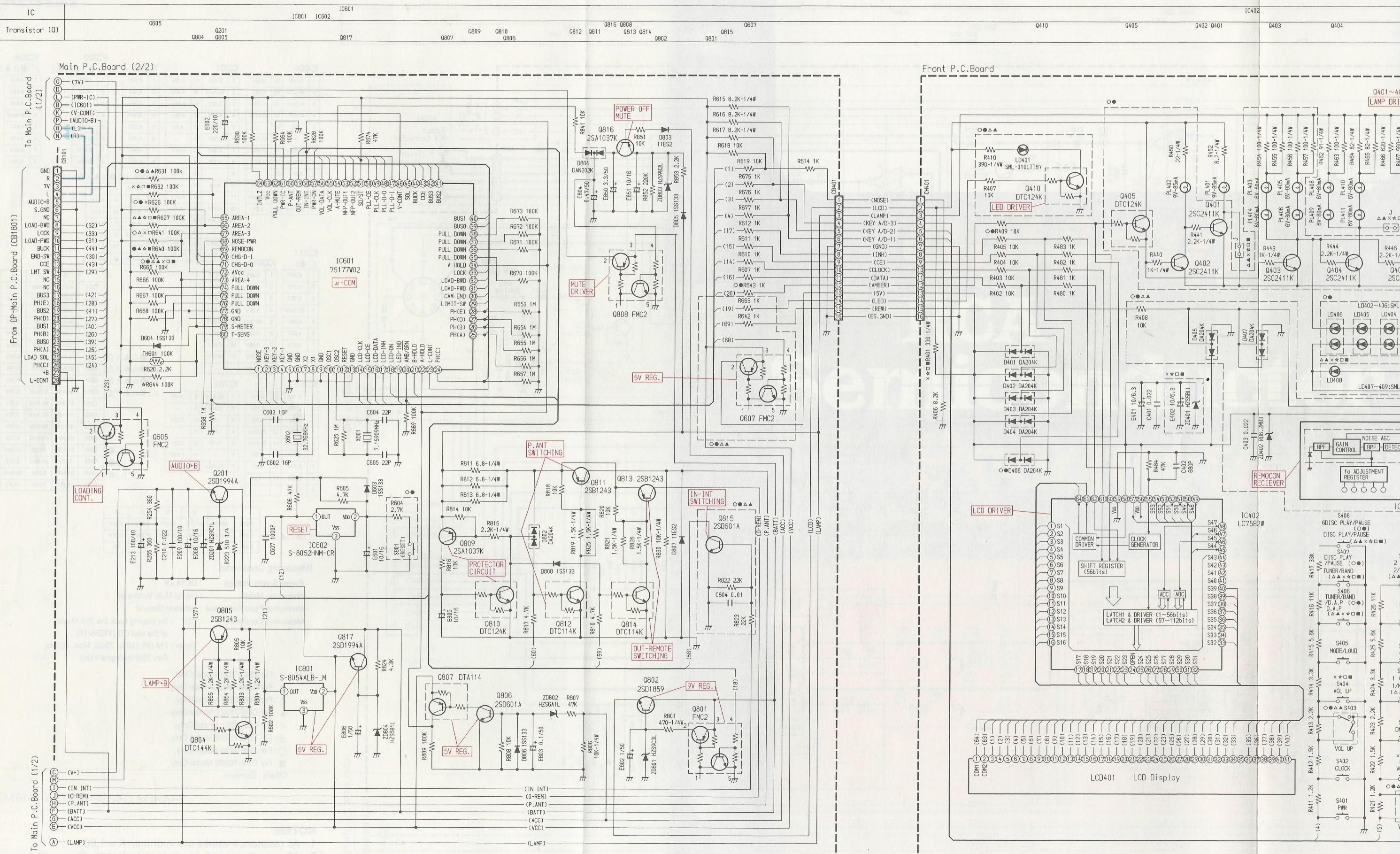
Q606	8.7V	0.1V	8.7V	0V
------	------	------	------	----

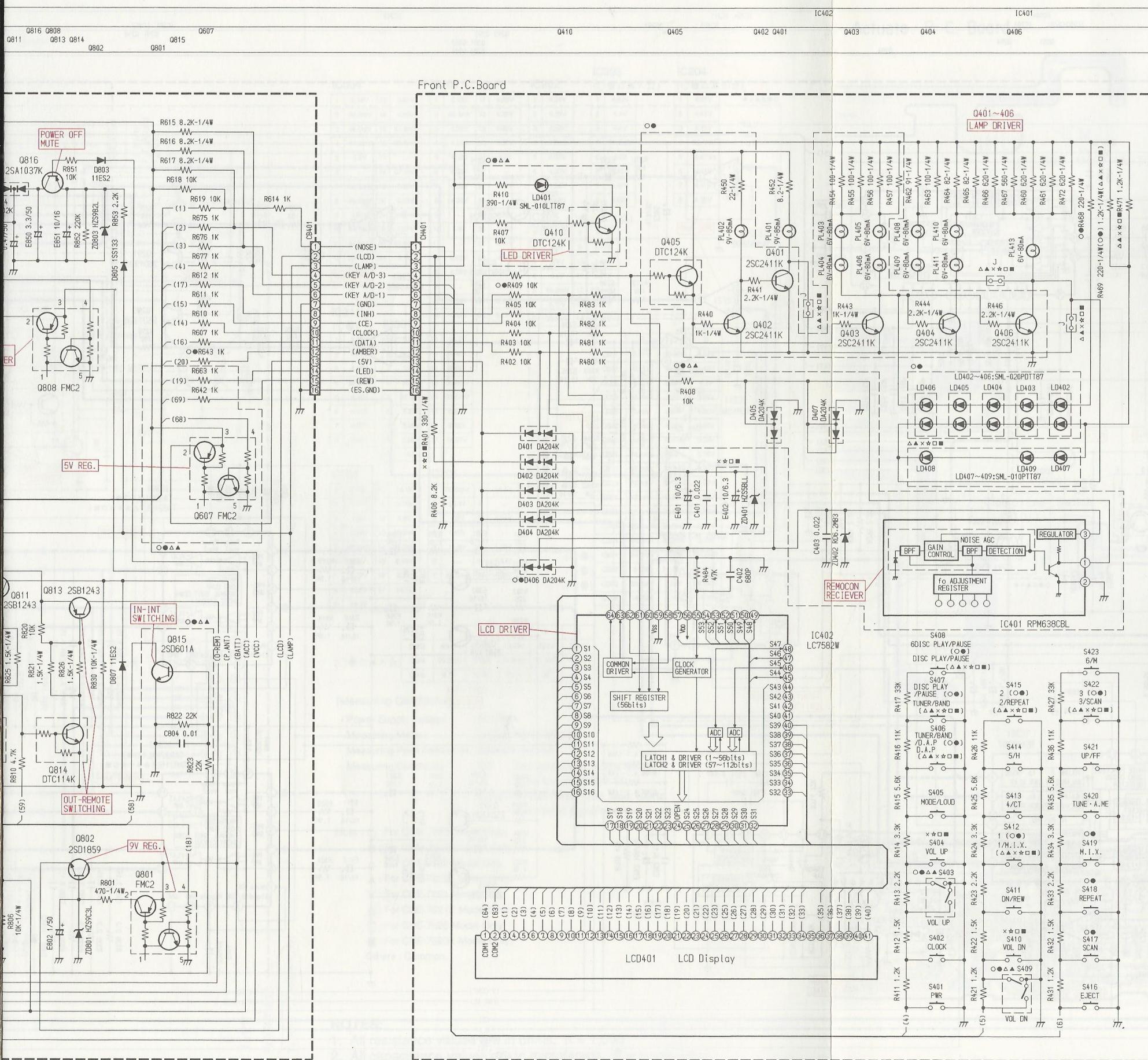
Q002	40mV	13.77V	13.85V	3.61V
Q294	63.2mV	8.73V	31.5mV	31.5mV

Q606	8.7V	0.1V	8.7V	0V
------	------	------	------	----

Q002	40mV	13.77V	13.85V	3.61V
Q294	63.2mV	8.73V	31.5mV	31.5

## Schematic Diagram (2/3)





IC401 (○●△▲)		IC402						IC601									
1	4.8V	1	2.55V	17	2.57V	33	2.56V	49	—	1	2.5V	21	5.04V	41	0V	61	5.05V
2	0V	2	2.55V	18	2.56V	34	—	50	—	2	5.1V	22	5.07V	42	0V	62	0V
3	5.1V	3	2.55V	19	2.57V	35	2.56V	51	—	3	5.1V	23	5.04V	43	0V	63	5.07V
IC602		4	2.55V	20	2.56V	36	2.56V	52	—	4	5.1V	24	0V	44	0V	64	5.02V
		5	2.55V	21	2.57V	37	2.56V	53	—	5	0V	25	0V	45	0V	65	5.03V
		6	2.55V	22	2.56V	38	2.56V	54	—	6	0V	26	0V	46	0V	66	5.03V
		7	2.55V	23	2.56V	39	2.56V	55	3.91V	7	1.5V	27	0V	47	4.84V	67	0V
		8	2.55V	24	—	40	2.56V	56	5.07V	8	0.8V	28	0V	48	0V	68	5.06V
IC801		9	2.55V	25	2.57V	41	—	57	5.05V	9	0V	29	0.02V	49	0V	69	4.68V
		10	2.55V	26	2.57V	42	—	58	5.05V	10	2.4V	30	0.02V	50	0V	70	5.07V
		11	2.55V	27	2.57V	43	—	59	0.07V	11	2.4V	31	0V	51	5.05V	71	0V
		12	2.55V	28	2.57V	44	—	60	4.8V	12	5.1V	32	0V	52	0V	72	5.08V
		13	2.56V	29	2.57V	45	—	61	0.55V	13	0V	33	0V	53	5.04V	73	0V
		14	2.56V	30	2.57V	46	—	62	0.53V	14	0.5V	34	5.07V	54	0V	74	0V
		15	2.56V	31	2.57V	47	—	63	2.58V	15	4.5V	35	0V	55	5.04V	75	0V
		16	2.56V	32	2.57V	48	—	64	2.58V	16	0.42V	36	0V	56	5.05V	76	0V
		17	5.05V	37	0V	57	5.05V	77	0V	17	5.03V	38	0V	58	5.02V	78	0V
		18	5.03V	39	0V	59	5.03V	79	5.45V	18	5.04V	39	0V	59	5.03V	79	5.45V
		19	0V	40	0V	60	5.02V	80	5.01V	19	0V	40	0V	60	5.02V	80	5.01V

	E	C	B		E	C	B	
(○●)	Q201	8.82V	15.1V	9.41V	Q806	32.7mV	49.8mV	0.65V
(○●)	Q401	132.3mV	0.22V	0.87V	Q807	5.28V	5.27V	49.8mV
(○●)	Q402	62mV	0.25V	0.79V	Q809	14.96V	42.7mV	14.95V
(○●)	Q403	130.4mV	0.3V	0.89V	Q810	46.2mV	14.94V	41.3mV
(○●)	Q404	113mV	0.6V	0.85V	Q811	14.89V	14.89V	14.23V
(○●)	Q405	36.9mV	10.05V	36.7mV	Q812	39.4mV	120mV	3.67V
(○●)	Q406	144.1mV	0.25V	0.87V	Q813	14.9V	14.89V	14.21V
(○●▲△)	Q410	56.4mV	0.28V	3.63V	Q814	38mV	133mV	3.71V
(○●▲△)	Q802	9.92V	15.1V	10.58V	Q815	37.1mV	5.13V	37.2mV
(○●▲△)	Q804	35.8mV	4.9V	5.13V	Q816	8.89V	0.26V	15.2V
(○●▲△)	Q805	15.1V	15.05V	14.42V	Q817	5.21V	15.1V	5.8V

	1	2	3	4	5
Q605	5.19V	58.3mV	5.16V	0.11V	39.1mV
Q607	40.8mV	5.2V	5.27V	5.24V	36.3mV
Q801	68.1mV	14.84V	15.12V	2.05V	31.7mV
Q802	59.1 mV	15.28V	14.98V	5.19V	39.2 mV

#### [Measuring Conditions]

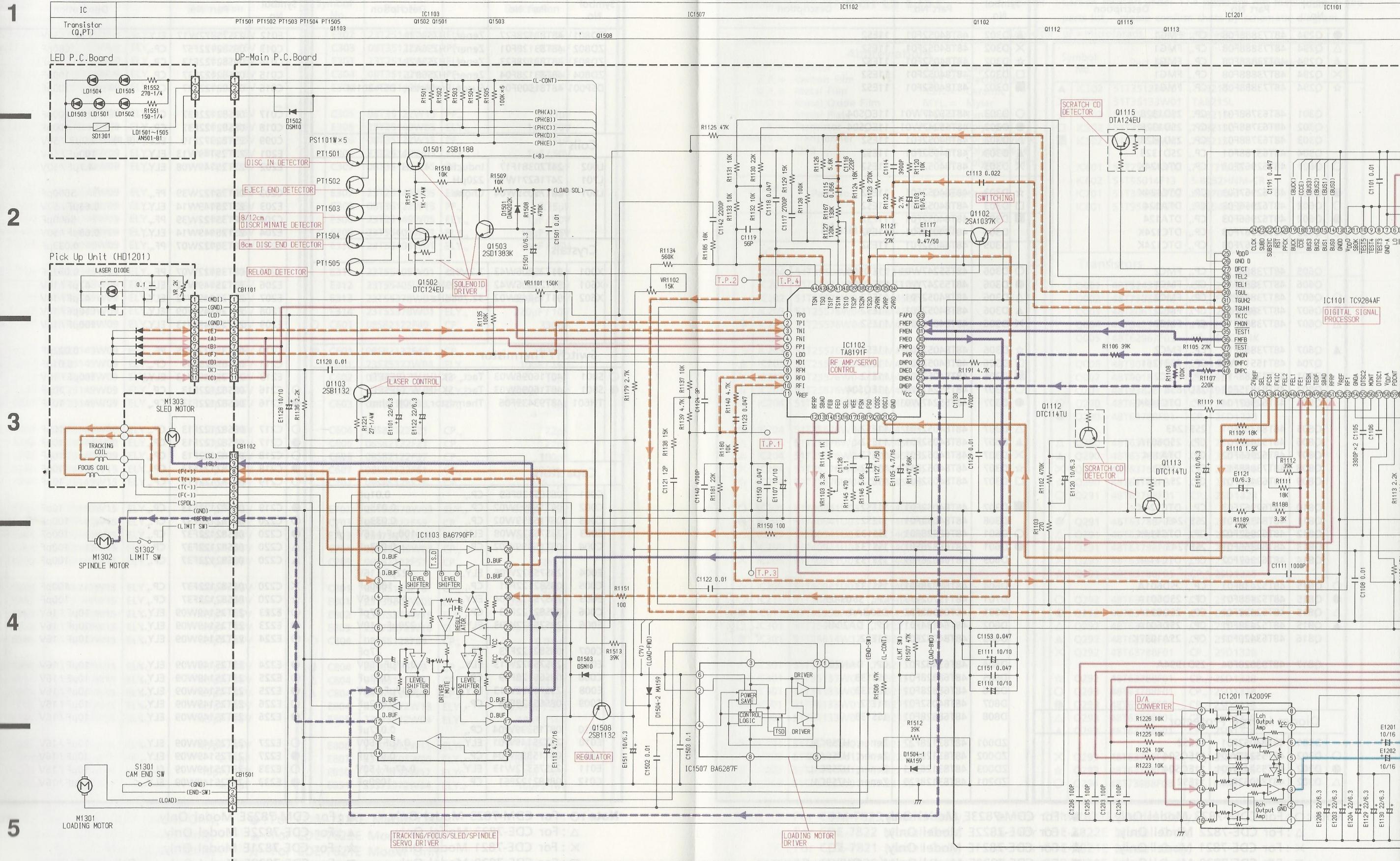
- Power Supply Voltage : DC14.4V
  - Measuring Meter : Digital Multi Voltmeter
  - Measuring Point Reference : Between Ground
  - Measuring Conditions : CD : Be playing back the 2nd Music  
of the test CD (YEDS-18)
  - Tuner : FM (98.1MHz, 72dB, Mod. 400Hz,  
Power 75W) Signal input

Note : ○ : For CDM-7823 Model Only,  
          ● : For CDM-7823E Model Only,  
          △ : For CDE-7822 Model Only,  
          ▲ : For CDE-7822E Model Only,  
          × : For CDE-7821 Model Only,  
          ☆ : For CDE-7821E Model Only,  
          □ : For CDE-7820 Model Only,  
          ■ : For CDE-7820E Model Only,

NOTES

- NOTES:  
1. All resistance values are in ohms. K = 1,000      1  
2. All capacitance values are in microfarads. P =  $\frac{1}{1,000,000}$

## Schematic Diagram (3/3)



A

B - 35 -

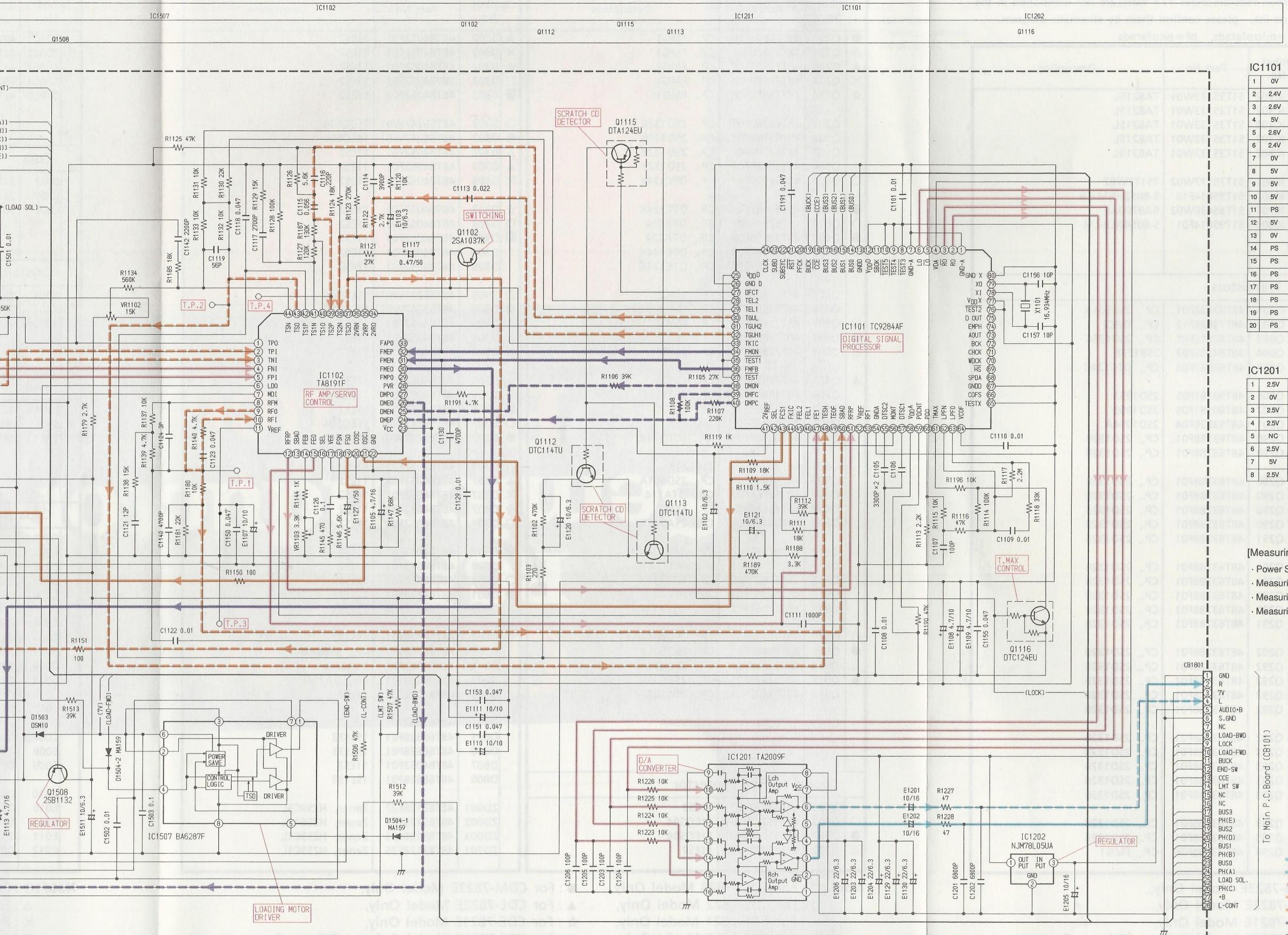
8

D

E

F - 36 -

G



IC1101							IC1102				IC1103				
1	0V	21	5V	41	4.3V	61	2.2V	1	1.7V	23	5V	1	2.8V	15	5.8V
2	2.4V	22	PS	42	5V	62	2.2V	2	2V	24	PS	2	3V	16	2.1V
3	2.6V	23	PS	43	2.6V	63	2.2V	3	2V	25	2.1V	3	2.2V	17	3.1V
4	5V	24	0V	44	2.6V	64	2.1V	4	2V	26	PS	4	2.2V	18	2.6V
5	2.6V	25	5V	45	2.2V	65	0V	5	2V	27	PS	5	5.6V	19	2V
6	2.4V	26	0V	46	2.2V	66	PS	6	3.9V	28	2.1V	6	5.1V	20	2.2V
7	0V	27	5V	47	2.2V	67	0V	7	0.1V	29	2.1V	7	6.3V	21	6.2V
8	5V	28	2.2V	48	2.2V	68	0.1V	8	2.1V	30	2V	8	0V	22	6.2V
9	5V	29	2.2V	49	2.2V	69	5V	9	PS	31	2V	9	2.2V	23	2.1V
10	5V	30	2.2V	50	2.5V	70	PS	10	PS	32	2.1V	10	2.4V	24	2.2V
11	PS	31	0V	51	2.4V	71	PS	11	2.1V	33	PS	11	3.2V	25	2.1V
12	5V	32	2.2V	52	2.2V	72	PS	12	PS	34	4.4V	12	2.6V	26	2.7V
13	0V	33	2.2V	53	PS	73	PS	13	2.7V	35	4.3V	13	0V	27	3V
14	PS	34	2.2V	54	0V	74	0.1V	14	2V	36	2.1V	14	5.8V	28	0V
15	PS	35	5V	55	2.6V	75	0.1V	15	PS	37	PS	15			
16	PS	36	2.2V	56	5V	76	5V	16	4.9V	38	2V	16			
17	PS	37	5V	57	2.6V	77	5V	17	0V	39	2V	17			
18	PS	38	2.2V	58	5V	78	PS	18	PS	40	PS	18			
19	PS	39	PS	59	5V	79	PS	19	PS	41	2V	19			
20	PS	40	PS	60	PS	80	0V	20	PS	42	2.1V	20			
								21	2.4V	43	2.1V	21			
								22	0V	44	0.1V	22			

IC1201			IC1202		IC1507		
1	2.5V	9	0V	1	9V	1	0V
2	0V	10	2.4V	2	0V	2	7.1V
3	2.5V	11	2.6V	3	5V	3	7.1V
4	2.5V	12	0V	4	0V	4	0V
5	NC	13	0V	5	0V	5	0V
6	2.5V	14	2.6V	6	7.1V	6	7.1V
7	5V	15	2.4V	7	0V	7	0V
8	2.5V	16	0V	8	0V	8	14V
						E	C
						Q1102	5V
						Q1103	4.6V
						Q1112	2.2V
						Q1113	2.2V
						Q1115	5V
						Q1116	2.1V
						Q1501	14V
							0V
						B	

#### [Measuring Conditions]

- Power Supply Voltage : DC14.4V
  - Measuring Meter : Digital Multi Voltmeter
  - Measuring Point Reference : Between Ground
  - Measuring Conditions : CD : Be playing back the 2nd Music of the test CD (YEDS-18)

Tuner : FM (98.1MHz, 72dB, Mod. 400Hz,  
Dev 75kHz), Signal input

○ : For CDM-7823 Model Only,  
 ● : For CDM-7823E Model Only,  
 △ : For CDE-7822 Model Only,  
 ▲ : For CDE-7822E Model Only,  
 × : For CDE-7821 Model Only,  
 ☆ : For CDE-7821E Model Only,  
 □ : For CDE-7820 Model Only,  
 ■ : For CDE-7820E Model Only,

## NOTES.

- NOTES:**

  1. All resistance values are in ohms.  $K = 1,000$
  2. All capacitance values are in microfarads.  $P = \frac{1}{1,000,000}$

# 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,  $\text{pF}$ =picofarads

## Abbreviations

RES.=	Resistor	CAP.=	Capacitor
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>Main P. C. Board</b>		

## IC's

○	IC204	51T35504W02	LC7219
○	IC201	51T65131W01	TEA6320T
○	IC202	51T25576W04	NJM4580E
●	IC203	51T25576W04	NJM4580E
●	IC203	51T25576W04	NJM4580E
△	IC203	51T25576W04	NJM4580E
▲	IC203	51T25576W04	NJM4580E
×	IC203	51T25576W04	NJM4580E
☆	IC203	51T25576W04	NJM4580E
○	IC204	51T25576W04	NJM4580E
●	IC204	51T25576W04	NJM4580E
△	IC204	51T25576W04	NJM4580E
▲	IC204	51T25576W04	NJM4580E
×	IC204	51T25576W04	NJM4580E
☆	IC204	51T25576W04	NJM4580E
○	IC205	51T40941U03	MC14066BFL1
●	IC205	51T40941U03	MC14066BFL1
△	IC205	51T40941U03	MC14066BFL1
▲	IC205	51T40941U03	MC14066BFL1
×	IC205	51T40941U03	MC14066BFL1
☆	IC205	51T40941U03	MC14066BFL1
○	IC211	51T93338F01	NJM4560E
●	IC211	51T93338F01	NJM4560E
○	IC301	51T25614W12	TA8221AL
●	IC301	51T25614W12	TA8221AL
△	IC301	51T35133W01	TA8215L
▲	IC301	51T35133W01	TA8215L
×	IC301	51T35133W01	TA8215L
☆	IC301	51T35133W01	TA8215L
□	IC301	51T35133W01	TA8215L
■	IC301	51T35133W01	TA8215L
○	IC302	51T25614W12	TA8221AL
●	IC302	51T25614W12	TA8221AL
△	IC302	51T35133W01	TA8215L

Note : ○ : For CDM-7823 Model Only,  
 △ : For CDE-7822 Model Only,  
 × : For CDE-7821 Model Only,  
 □ : For CDE-7820 Model Only,

● : For CDM-7823E Model Only,  
 ▲ : For CDE-7822E Model Only,  
 ☆ : For CDE-7821E Model Only,  
 ■ : For CDE-7820E Model Only,      Others : Common.

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description	
● Q294	48T73888F08	CP., FMG1	▲ D302	48T84052F01	11ES2	
△ Q294	48T73888F08	CP., FMG1	× D302	48T84052F01	11ES2	
▲ Q294	48T73888F08	CP., FMG1	☆ D302	48T84052F01	11ES2	
×	Q294	48T73888F08	CP., FMG1	□ D302	48T84052F01	11ES2
☆ Q294	48T73888F08	CP., FMG1	■ D302	48T84052F01	11ES2	
	Q301	48T63788F01	CP., 2SD1328	○ D303	48T55247W01	11EQS04
	Q302	48T63788F01	CP., 2SD1328	● D303	48T55247W01	11EQS04
	Q303	48T63788F01	CP., 2SD1328	△ D303	48T84052F01	11ES2
	Q304	48T63788F01	CP., 2SD1328	▲ D303	48T84052F01	11ES2
○	Q601	48T62967F03	CP., DTC124K	×	48T84052F01	11ES2
● Q601	48T62967F03	CP., DTC124K	☆ D303	48T84052F01	11ES2	
○ Q602	48T62966F03	CP., DTA124	□ D303	48T84052F01	11ES2	
● Q602	48T62966F03	CP., DTA124	■ D303	48T84052F01	11ES2	
○ Q603	48T62967F03	CP., DTC124K	D304	48T84052F01	11ES2	
● Q603	48T62967F03	CP., DTC124K	D305	48T84052F01	11ES2	
	Q605	48T73888F12	CP., FMC2	○ D306	48T55247W01	11EQS04
	Q606	48T73888F11	CP., FMC1	● D306	48T55247W01	11EQS04
○	Q607	48T73888F12	CP., FMC2	△ D306	48T84052F01	11ES2
● Q607	48T73888F12	CP., FMC2	▲ D306	48T84052F01	11ES2	
△ Q607	48T73888F12	CP., FMC2	×	48T84052F01	11ES2	
▲ Q607	48T73888F12	CP., FMC2	☆ D306	48T84052F01	11ES2	
Q704	48T15511W02	CP., 2SB1261	□ D306	48T84052F01	11ES2	
Q801	48T73888F12	CP., FMC2	■ D306	48T84052F01	11ES2	
Q802	48T83835F03	2SD1859	○ D307	48T55247W01	11EQS04	
Q804	48T62967F04	CP., DTC144K	● D307	48T55247W01	11EQS04	
	Q805	48T84366F01	2SB1243	△ D307	48T84052F01	11ES2
	Q806	48T52438F01	CP., 2SD601A	▲ D307	48T84052F01	11ES2
	Q807	48T62966F02	CP., DTA114	×	48T84052F01	11ES2
	Q808	48T73888F12	CP., FMC2	☆ D307	48T84052F01	11ES2
	Q809	48T63420F01	CP., 2SA1037K	□ D307	48T84052F01	11ES2
	Q810	48T62967F03	CP., DTC124K	■ D307	48T84052F01	11ES2
	Q811	48T84366F01	2SB1243	D308	48T84052F01	11ES2
	Q812	48T62967F02	CP., DTC114K	○ D601	48T68828F01	1SS133
	Q813	48T84366F01	2SB1243	● D601	48T68828F01	1SS133
	Q814	48T62967F02	CP., DTC114K	D603	48T68828F01	1SS133
○	Q815	48T52438F01	CP., 2SD601A	D604	48T68828F01	1SS133
● Q815	48T52438F01	CP., 2SD601A	D701	48T15702W01	CP., SB05-05CP	
△ Q815	48T52438F01	CP., 2SD601A	D801	48T68580F02	DSA3A4	
▲ Q815	48T52438F01	CP., 2SD601A	D802	48T64134F01	CP., DA204K	
	Q816	48T63420F01	CP., 2SA1037K	D803	48T84052F01	11ES2
	Q817	48T93828F04	2SD1994A	D804	48T63462F01	CP., DAN202K
				D805	48T68828F01	1SS133
				D806	48T68828F01	1SS133
				D807	48T84052F01	11ES2
				D808	48T68828F01	1SS133
	<b>Diodes / Surge Protector</b>			ZD001	48T83128F27	Zener, HZS9C3L
	D301	48T84052F01	11ES2	ZD002	48T83128F02	Zener, HZS6A2L
○	D302	48T55247W01	11EQS04	ZD003	48T83128F25	Zener, HZS9C1L
●	D302	48T55247W01	11EQS04	ZD201	48T83128F25	Zener, HZS9C1L
△	D302	48T84052F01	11ES2			

Note : ○ : For CDM-7823 Model Only,  
 △ : For CDE-7822 Model Only,  
 × : For CDE-7821 Model Only,  
 □ : For CDE-7820 Model Only,

● : For CDM-7823E Model Only,  
 ▲ : For CDE-7822E Model Only,  
 ☆ : For CDE-7821E Model Only,  
 ■ : For CDE-7820E Model Only,      Others : Common.

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
ZD801	48T83128F27	Zener, HZS9C3L	E012	23S75372W17	ELY., 3.3μF / 50V
ZD802	48T83128F01	Zener, HZS6A1L	C013	08S82122F57	CP., 680pF
ZD803	48T83128F23	Zener, HZS9B2L	C014	08S82122F13	CP., 10pF
ZD804	48T83128F04	Zener, HZS6B1L	C015	08S82122F37	CP., 100pF
DSP001	48T81909F01	Surge Protector, DSP-201M	C016	08S82122F37	CP., 100pF
<b>Coils</b>					
L002	24T70381F17	Inductor, 4.7μH	C017	08S82122F37	CP., 100pF
L701	24T16271W13	220μH	C018	08S82122F37	CP., 100pF
L801	24T75055W04	Choke	C099	23T82372F19	ELY., (B.P) 2.2μF / 50V
<b>Crystals</b>					
X001	91T25806W43	7.2MHz	E201	23T25149W13	ELY., 100μF / 10V
X601	91T25806W42	7.15909MHz	E202	23T25149W08	ELY., 4.7μF / 50V
X602	91T15849W02	32.768KHz	C203	08T35122W39	PF., 5600pF
<b>Switch / Thermistor</b>			E203	23T25149W14	ELY., 0.68μF / 50V
○ S801	40T16096W03	Tact, SKHHLW (RESET)	C204	08T35122W39	PF., 5600pF
● S801	40T16096W03	Tact, SKHHLW (RESET)	E204	23T25149W14	ELY., 0.68μF / 50V
TH601	48T93439F06	Thermistor, 100K ohm	C205	08T35122W07	PF., 0.033μF
<b>Capacitors</b>			C206	08T35122W07	PF., 0.033μF
C001	08S65128F69	CP., 0.01μF	E206	23T25149W12	ELY., 47μF / 16V
C002	08T15399W02	CP., 0.033μF	E207	23T25149W12	ELY., 47μF / 16V
C003	08T15399W02	CP., 0.033μF	E208	23T25149W09	ELY., 10μF / 16V
E003	23S75372W08	ELY., 100μF / 16V	E209	23T25149W13	ELY., 100μF / 10V
C004	08T15399W02	CP., 0.033μF	C210	08T35122W05	PF., 0.022μF
E004	23S75372W05	ELY., 22μF / 16V	C211	08S65128F69	CP., 0.01μF
C005	08S82122F61	CP., 1000pF	E213	23T25149W13	ELY., 100μF / 10V
E005	23S75372W04	ELY., 10μF / 16V	○ C216	08S82122F13	CP., 10pF
C006	08S82122F23	CP., 27pF	● C216	08S82122F13	CP., 10pF
E006	23S75372W03	ELY., 220μF / 10V	○ C217	08S82122F13	CP., 10pF
C007	08S82122F23	CP., 27pF	● C217	08S82122F13	CP., 10pF
E007	23S75372W13	ELY., 0.47μF / 50V	○ C218	08S82122F13	CP., 10pF
C008	08S65128F69	CP., 0.01μF	● C218	08S82122F13	CP., 10pF
E008	23S75372W13	ELY., 0.47μF / 50V	○ C219	08S82122F13	CP., 10pF
C009	08S65128F78	CP., 0.022μF	● C219	08S82122F13	CP., 10pF
C010	08T15399W04	CP., 0.027μF	○ C220	08S82122F37	CP., 100pF
E010	23T25149W01	ELY., 0.1μF / 50V	● C220	08S82122F37	CP., 100pF
C011	08T15399W04	CP., 0.027μF	○ E223	23T25149W09	ELY., 10μF / 16V
E011	23S75372W13	ELY., 0.47μF / 50V	● E223	23T25149W09	ELY., 10μF / 16V
C012	08S82122F61	CP., 1000pF	○ E224	23T25149W09	ELY., 10μF / 16V
<b>Note : ○ : For CDM-7823 Model Only,</b>					
<b>△ : For CDE-7822 Model Only,</b>					
<b>× : For CDE-7821 Model Only,</b>					
<b>□ : For CDE-7820 Model Only,</b>					
<b>● : For CDM-7823E Model Only,</b>					
<b>▲ : For CDE-7822E Model Only,</b>					
<b>☆ : For CDE-7821E Model Only,</b>					
<b>■ : For CDE-7820E Model Only,</b>					
<b>Others : Common.</b>					

Note : ○ : For CDM-7823 Model Only,

● : For CDM-7823E Model Only,

△ : For CDE-7822 Model Only,

▲ : For CDE-7822E Model Only,

× : For CDE-7821 Model Only,

☆ : For CDE-7821E Model Only,

□ : For CDE-7820 Model Only,

■ : For CDE-7820E Model Only,

Others : Common.

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
△ E233	23T25149W09	ELY., 10μF / 16V	E302	23T25149W09	ELY., 10μF / 16V
▲ E233	23T25149W09	ELY., 10μF / 16V	C303	08T35122W15	PF., 0.15μF
×	23T25149W09	ELY., 10μF / 16V	E303	23T25149W09	ELY., 10μF / 16V
☆ E233	23T25149W09	ELY., 10μF / 16V	C304	08T35122W15	PF., 0.15μF
○ E234	23T25149W09	ELY., 10μF / 16V	E304	23T25149W09	ELY., 10μF / 16V
● E234	23T25149W09	ELY., 10μF / 16V	C305	08T35122W15	PF., 0.15μF
△ E234	23T25149W09	ELY., 10μF / 16V	E305	23T25149W05	ELY., 1μF / 50V
▲ E234	23T25149W09	ELY., 10μF / 16V	C306	08T35122W15	PF., 0.15μF
×	23T25149W09	ELY., 10μF / 16V	E306	23T25149W05	ELY., 1μF / 50V
☆ E234	23T25149W09	ELY., 10μF / 16V	C307	08T35122W15	PF., 0.15μF
○ E236	23T25149W09	ELY., 10μF / 16V	E307	23T25149W05	ELY., 1μF / 50V
● E236	23T25149W09	ELY., 10μF / 16V	C308	08T35122W15	PF., 0.15μF
△ E236	23T25149W09	ELY., 10μF / 16V	E308	23T25149W05	ELY., 1μF / 50V
▲ E236	23T25149W09	ELY., 10μF / 16V	E309	23T55405W01	ELY., 10μF / 16V
×	23T25149W09	ELY., 10μF / 16V	E310	23T55405W01	ELY., 10μF / 16V
☆ E236	23T25149W09	ELY., 10μF / 16V	E311	23T55405W01	ELY., 10μF / 16V
○ E237	23T25149W09	ELY., 10μF / 16V	E312	23T55405W01	ELY., 10μF / 16V
● E237	23T25149W09	ELY., 10μF / 16V	E313	23T55378W01	ELY., 220μF / 10V
△ E237	23T25149W09	ELY., 10μF / 16V	E314	23T55378W01	ELY., 220μF / 10V
▲ E237	23T25149W09	ELY., 10μF / 16V	C601	08S82122F49	CP., 330pF
×	23T25149W09	ELY., 10μF / 16V	● C601	08S82122F49	CP., 330pF
☆ E237	23T25149W09	ELY., 10μF / 16V	E601	23S75372W04	ELY., 10μF / 16V
E239	23T25149W09	ELY., 10μF / 16V	C602	08S82122F18	CP., 16pF
E240	23T25149W09	ELY., 10μF / 16V	E602	23S75372W03	ELY., 220μF / 10V
○ E241	23T25149W09	ELY., 10μF / 16V	C603	08S82122F18	CP., 16pF
● E241	23T25149W09	ELY., 10μF / 16V	C604	08S82122F21	CP., 22pF
○ E242	23T25149W09	ELY., 10μF / 16V	C605	08S82122F21	CP., 22pF
● E242	23T25149W09	ELY., 10μF / 16V	C606	08S82122F37	CP., 100pF
○ E264	23T25149W15	ELY., 4.7μF / 35V	C607	08S82122F61	CP., 1000pF
● E264	23T25149W15	ELY., 4.7μF / 35V	C702	08S65128F76	CP., 0.1μF
△ E264	23T25149W15	ELY., 4.7μF / 35V	E702	23T55378W03	ELY., 470μF / 10V
▲ E264	23T25149W15	ELY., 4.7μF / 35V	C703	08S82122F59	CP., 820pF
×	23T25149W15	ELY., 4.7μF / 35V	E703	23S75372W08	ELY., 100μF / 16V
☆ E264	23T25149W15	ELY., 4.7μF / 35V	C704	08T15399W03	CP., 0.047μF
○ E265	23T25149W15	ELY., 4.7μF / 35V	C705	08S82122F57	CP., 680pF
● E265	23T25149W15	ELY., 4.7μF / 35V	C801	08S65128F76	CP., 0.1μF
△ E265	23T25149W15	ELY., 4.7μF / 35V	E801	23T35505W05	ELY., 2200μF / 16V
▲ E265	23T25149W15	ELY., 4.7μF / 35V	E802	23S75372W15	ELY., 1μF / 50V
×	23T25149W15	ELY., 4.7μF / 35V	E803	23S75372W10	ELY., 0.1μF / 50V
☆ E265	23T25149W15	ELY., 4.7μF / 35V	○ C804	08S65128F69	CP., 0.01μF
○ E266	23T25149W15	ELY., 4.7μF / 35V	● C804	08S65128F69	CP., 0.01μF
● E266	23T25149W15	ELY., 4.7μF / 35V	△ C804	08S65128F69	CP., 0.01μF
△ E266	23T25149W15	ELY., 4.7μF / 35V	▲ C804	08S65128F69	CP., 0.01μF
▲ E266	23T25149W15	ELY., 4.7μF / 35V	E804	23S75372W13	ELY., 0.47μF / 50V
×	23T25149W15	ELY., 4.7μF / 35V	E805	23S75372W04	ELY., 10μF / 16V
☆ E266	23T25149W15	ELY., 4.7μF / 35V	E806	23S75372W15	ELY., 1μF / 50V
C301	08T35122W15	PF., 0.15μF	E807	23T35505W05	ELY., 2200μF / 16V
E301	23T25149W09	ELY., 10μF / 16V	E850	23S75372W17	ELY., 3.3μF / 50V
C302	08T35122W15	PF., 0.15μF	E851	23S75372W04	ELY., 10μF / 16V

Note : ○ : For CDM-7823 Model Only,

● : For CDM-7823E Model Only,

△ : For CDE-7822 Model Only,

▲ : For CDE-7822E Model Only,

× : For CDE-7821 Model Only,

☆ : For CDE-7821E Model Only,

□ : For CDE-7820 Model Only,

■ : For CDE-7820E Model Only,

Others : Common.

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
<b>Resistors (All resistors are chip 1/10W±5% unless otherwise noted.)</b>					
R001	06S64995F53	1K ohm	R255	06S64995F42	360 ohm
R002	06S64995F53	1K ohm	○ R269	06S64995F29	100 ohm
R003	06S64995F65	3.3K ohm	● R269	06S64995F29	100 ohm
R004	06S64995F75	8.2K ohm	△ R269	06S64995F29	100 ohm
R005	06S64995F71	5.6K ohm	▲ R269	06S64995F29	100 ohm
R006	06S64995F65	3.3K ohm	× R269	06S64995F29	100 ohm
R007	06S64995F53	1K ohm	★ R269	06S64995F29	100 ohm
R008	06S64995F05	10 ohm	○ R270	06S64995F29	100 ohm
R009	06S70072F41	330 ohm 1/4W	● R270	06S64995F29	100 ohm
R011	06S64995F53	1K ohm	△ R270	06S64995F29	100 ohm
R012	06S64995F77	10K ohm	▲ R270	06S64995F29	100 ohm
R013	06S64995F51	820 ohm	× R270	06S64995F29	100 ohm
R014	06S64995F77	10K ohm	★ R270	06S64995F29	100 ohm
R015	06S64995F77	10K ohm	○ R271	06S64995F29	100 ohm
R016	06S64995F95	56K ohm	● R271	06S64995F29	100 ohm
R017	06S64995F77	10K ohm	△ R271	06S64995F29	100 ohm
R018	06S64995F75	8.2K ohm	▲ R271	06S64995F29	100 ohm
R019	06S70072F41	330 ohm 1/4W	× R271	06S64995F29	100 ohm
R020	06S64995F77	10K ohm	○ R272	06S64995F29	100 ohm
R021	06S70072F53	1K ohm 1/4W	● R272	06S64995F29	100 ohm
R022	06S64995F77	10K ohm	△ R272	06S64995F29	100 ohm
R023	06S64995F65	3.3K ohm	▲ R272	06S64995F29	100 ohm
R024	06S64995F65	3.3K ohm	× R272	06S64995F29	100 ohm
R025	06S64995F77	10K ohm	○ R272	06S64995F29	100 ohm
R026	06S64995F77	10K ohm	● R273	06S64995F85	22K ohm
R030	06S64996F02	100K ohm	△ R273	06S64995F85	22K ohm
R032	06S64995F53	1K ohm	▲ R273	06S64995F85	22K ohm
R033	06S64995F53	1K ohm	× R273	06S64995F85	22K ohm
R203	06S64995F65	3.3K ohm	○ R273	06S64995F85	22K ohm
R204	06S64995F65	3.3K ohm	● R274	06S64995F85	22K ohm
R205	06S64995F65	3.3K ohm	△ R274	06S64995F85	22K ohm
R206	06S64995F65	3.3K ohm	▲ R274	06S64995F85	22K ohm
○ R209	06S64995F65	3.3K ohm	× R274	06S64995F85	22K ohm
● R209	06S64995F65	3.3K ohm	○ R274	06S64995F85	22K ohm
○ R210	06S64995F65	3.3K ohm	● R274	06S64995F85	22K ohm
● R210	06S64995F65	3.3K ohm	△ R274	06S64995F85	22K ohm
○ R211	06S64995F65	3.3K ohm	▲ R274	06S64995F85	22K ohm
● R211	06S64995F65	3.3K ohm	× R275	06S64995F85	22K ohm
○ R212	06S64995F65	3.3K ohm	○ R275	06S64995F85	22K ohm
● R212	06S64995F65	3.3K ohm	● R275	06S64995F85	22K ohm
R223	06S70072F46	510 ohm 1/4W	△ R275	06S64995F85	22K ohm
R231	06S64995F77	10K ohm	○ R276	06S64995F85	22K ohm
R232	06S64995F77	10K ohm	● R276	06S64995F85	22K ohm
R233	06S64995F91	39K ohm	▲ R276	06S64995F85	22K ohm
R234	06S64995F91	39K ohm	× R276	06S64995F85	22K ohm
R254	06S64995F42	360 ohm	☆ R276	06S64995F85	22K ohm

Note : ○ : For CDM-7823 Model Only,

△ : For CDE-7822 Model Only,

×

○ : For CDE-7821 Model Only,

○ : For CDE-7820 Model Only,

● : For CDM-7823E Model Only,

▲ : For CDE-7822E Model Only,

★ : For CDE-7821E Model Only,

■ : For CDE-7820E Model Only,

Others : Common.

Symbol No.	Part No.	Description	Location	Symbol No.	Part No.	Description	Location
○ R277	06S64995F29	100 ohm	100	▲ R291	06S64995F69	4.7K ohm	100
● R277	06S64995F29	100 ohm	100	× R291	06S64995F69	4.7K ohm	100
△ R277	06S64995F29	100 ohm	100	☆ R291	06S64995F69	4.7K ohm	100
▲ R277	06S64995F29	100 ohm	100	○ R292	06S64995F69	4.7K ohm	100
×	R277	06S64995F29	100 ohm	● R292	06S64995F69	4.7K ohm	100
☆ R277	06S64995F29	100 ohm	100	△ R292	06S64995F69	4.7K ohm	100
○ R278	06S64995F29	100 ohm	100	▲ R292	06S64995F69	4.7K ohm	100
● R278	06S64995F29	100 ohm	100	× R292	06S64995F69	4.7K ohm	100
△ R278	06S64995F29	100 ohm	100	☆ R292	06S64995F69	4.7K ohm	100
▲ R278	06S64995F29	100 ohm	100	○ R293	06S64995F69	4.7K ohm	100
×	R278	06S64995F29	100 ohm	● R293	06S64995F69	4.7K ohm	100
☆ R278	06S64995F29	100 ohm	100	△ R293	06S64995F69	4.7K ohm	100
○ R279	06S64995F29	100 ohm	100	▲ R293	06S64995F69	4.7K ohm	100
● R279	06S64995F29	100 ohm	100	×	R293	06S64995F69	4.7K ohm
△ R279	06S64995F29	100 ohm	100	○ R294	06S64995F61	2.2K ohm	100
▲ R279	06S64995F29	100 ohm	100	● R294	06S64995F61	2.2K ohm	100
×	R279	06S64995F29	100 ohm	△ R294	06S64995F61	2.2K ohm	100
☆ R279	06S64995F29	100 ohm	100	▲ R294	06S64995F61	2.2K ohm	100
○ R280	06S64995F29	100 ohm	100	×	R294	06S64995F61	2.2K ohm
● R280	06S64995F29	100 ohm	100	○ R294	06S64995F61	2.2K ohm	100
△ R280	06S64995F29	100 ohm	100	● R294	06S64995F61	2.2K ohm	100
▲ R280	06S64995F29	100 ohm	100	☆ R294	06S64995F61	2.2K ohm	100
×	R280	06S64995F29	100 ohm	○ R295	06S64995F61	2.2K ohm	100
☆ R280	06S64995F29	100 ohm	100	● R295	06S64995F61	2.2K ohm	100
○ R281	06T15443W85	22K ohm	100	△ R295	06S64995F61	2.2K ohm	100
● R281	06T15443W85	22K ohm	100	☆ R295	06S64995F61	2.2K ohm	100
○ R282	06T15443W85	22K ohm	100	○ R295	06S64995F61	2.2K ohm	100
● R282	06T15443W85	22K ohm	100	● R295	06S64995F61	2.2K ohm	100
○ R283	06T15443W85	22K ohm	100	R301	06S64995F37	220 ohm	100
● R283	06T15443W85	22K ohm	100	R302	06S64995F37	220 ohm	100
○ R284	06T15443W85	22K ohm	100	R303	06S64995F37	220 ohm	100
● R284	06T15443W85	22K ohm	100	R304	06S64995F37	220 ohm	100
○ R285	06T15443W85	22K ohm	100	R309	06S64995F57	1.5K ohm	100
● R285	06T15443W85	22K ohm	100	R310	06S64995F57	1.5K ohm	100
○ R286	06T15443W85	22K ohm	100	R311	06S64995F57	1.5K ohm	100
● R286	06T15443W85	22K ohm	100	R312	06S64995F57	1.5K ohm	100
○ R287	06T15443W85	22K ohm	100	R313	06S64995F55	1.2K ohm	100
● R287	06T15443W85	22K ohm	100	R314	06S64995F55	1.2K ohm	100
○ R288	06T15443W85	22K ohm	100	R315	06S64995F55	1.2K ohm	100
● R288	06T15443W85	22K ohm	100	R316	06S64995F55	1.2K ohm	100
○ R290	06S64995F69	4.7K ohm	100	R317	06S64995F57	1.5K ohm	100
● R290	06S64995F69	4.7K ohm	100	R318	06S64995F57	1.5K ohm	100
△ R290	06S64995F69	4.7K ohm	100	R319	06S53331F40	2.2 ohm 1/8W	100
▲ R290	06S64995F69	4.7K ohm	100	R320	06S53331F40	2.2 ohm 1/8W	100
×	R290	06S64995F69	4.7K ohm	R321	06S53331F40	2.2 ohm 1/8W	100
☆ R290	06S64995F69	4.7K ohm	100	R322	06S53331F40	2.2 ohm 1/8W	100
○ R291	06S64995F69	4.7K ohm	100	R323	06S64995F57	1.5K ohm	100
● R291	06S64995F69	4.7K ohm	100	R324	06S64995F57	1.5K ohm	100
△ R291	06S64995F69	4.7K ohm	100	R325	06S53331F40	2.2 ohm 1/8W	100
▲ R291	06S64995F69	4.7K ohm	100	R326	06S53331F40	2.2 ohm 1/8W	100

Note : ○ : For CDM-7823 Model Only,  
     △ : For CDE-7822 Model Only,  
     × : For CDE-7821 Model Only,  
     □ : For CDE-7820 Model Only,

● : For CDM-7823E Model Only,  
     ▲ : For CDE-7822E Model Only,  
     ☆ : For CDE-7821E Model Only,  
     ■ : For CDE-7820E Model Only,

Others : Common.

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description	
	R327	06S53331F40	2.2 ohm 1/8W	R634	06S64995F53	1K ohm
	R328	06S53331F40	2.2 ohm 1/8W	R635	06S64995F53	1K ohm
	R329	06S64995F77	10K ohm	R636	06S64995F85	22K ohm
	R330	06S64995F69	4.7K ohm	● R640	06S64996F02	100K ohm
	R331	06S64995F69	4.7K ohm	▲ R640	06S64996F02	100K ohm
	R332	06S64995F69	4.7K ohm	★ R640	06S64996F02	100K ohm
○	R333	06S64995F69	4.7K ohm	■ R640	06S64996F02	100K ohm
●	R601	06S64995F85	22K ohm	○ R641	06S64996F02	100K ohm
●	R601	06S64995F85	22K ohm	△ R641	06S64996F02	100K ohm
○	R602	06S70072F37	220 ohm 1/4W	× R641	06S64996F02	100K ohm
●	R602	06S70072F37	220 ohm 1/4W	□ R641	06S64996F02	100K ohm
○	R603	06S53330F85	22K ohm 1/8W	○ R642	06S64995F53	1K ohm
●	R603	06S53330F85	22K ohm 1/8W	● R642	06S64995F53	1K ohm
○	R604	06S64995F63	2.7K ohm	△ R642	06S64995F53	1K ohm
●	R604	06S64995F63	2.7K ohm	▲ R642	06S64995F53	1K ohm
	R605	06S64995F69	4.7K ohm	○ R643	06S64995F53	1K ohm
	R606	06S64995F93	47K ohm	● R643	06S64995F53	1K ohm
	R607	06S64995F53	1K ohm	R653	06S64996F26	1M ohm
	R610	06S64995F53	1K ohm	R654	06S64996F26	1M ohm
	R611	06S64995F53	1K ohm	R655	06S64996F26	1M ohm
	R612	06S64995F53	1K ohm	R656	06S64996F26	1M ohm
	R614	06S64995F53	1K ohm	R657	06S64996F26	1M ohm
	R615	06S70072F75	8.2K ohm 1/4W	R658	06S64996F26	1M ohm
	R616	06S70072F75	8.2K ohm 1/4W	R659	06S64995F53	1K ohm
	R617	06S70072F75	8.2K ohm 1/4W	○ R663	06S64995F53	1K ohm
	R618	06S64995F77	10K ohm	● R663	06S64995F53	1K ohm
	R619	06S64995F77	10K ohm	△ R663	06S64995F53	1K ohm
	R620	06S64995F61	2.2K ohm	▲ R663	06S64995F53	1K ohm
	R621	06S64995F85	22K ohm	R664	06S64996F02	100K ohm
	R625	06S64996F26	1M ohm	○ R665	06S64996F02	100K ohm
○	R626	06S64996F02	100K ohm	● R665	06S64996F02	100K ohm
●	R626	06S64996F02	100K ohm	△ R665	06S64996F02	100K ohm
×	R626	06S64996F02	100K ohm	▲ R665	06S64996F02	100K ohm
△	R627	06S64996F02	100K ohm	× R665	06S64996F02	100K ohm
▲	R627	06S64996F02	100K ohm	□ R665	06S64996F02	100K ohm
★	R627	06S64996F02	100K ohm	■ R665	06S64996F02	100K ohm
□	R627	06S64996F02	100K ohm	R666	06S64996F02	100K ohm
■	R627	06S64996F02	100K ohm	R667	06S64996F02	100K ohm
	R628	06S64996F02	100K ohm	R668	06S64996F02	100K ohm
	R630	06S64996F02	100K ohm	R669	06S64996F02	100K ohm
○	R631	06S64996F02	100K ohm	R670	06S64996F02	100K ohm
●	R631	06S64996F02	100K ohm	R671	06S64996F02	100K ohm
△	R631	06S64996F02	100K ohm	R672	06S64996F02	100K ohm
▲	R631	06S64996F02	100K ohm	R673	06S64996F02	100K ohm
×	R632	06S64996F02	100K ohm	R674	06S64995F93	47K ohm
★	R632	06S64996F02	100K ohm	R675	06S64995F53	1K ohm
□	R632	06S64996F02	100K ohm	R676	06S64995F53	1K ohm
■	R632	06S64996F02	100K ohm	R677	06S64995F53	1K ohm
	R633	06S64995F85	22K ohm	R705	06S70072F01	4.7 ohm 1/4W

Note : ○ : For CDM-7823 Model Only,  
 △ : For CDE-7822 Model Only,  
 × : For CDE-7821 Model Only,  
 □ : For CDE-7820 Model Only,

● : For CDM-7823E Model Only,  
 ▲ : For CDE-7822E Model Only,  
 ★ : For CDE-7821E Model Only,  
 ■ : For CDE-7820E Model Only

Others : Common.

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description	
R706	06S70072F01	4.7 ohm 1/4W	○ IC401	51T55246W02	RPM-638CBL	
R707	06S70072F01	4.7 ohm 1/4W	● IC401	51T55246W02	RPM-638CBL	
R708	06S64995F93	47K ohm	△ IC401	51T55246W02	RPM-638CBL	
R709	06S64995F74	7.5K ohm	▲ IC401	51T55246W02	RPM-638CBL	
R710	06S64995F81	15K ohm	IC402	51T83905F03	LC7582W	
R711	06S70072F45	470 ohm 1/4W	<b>Front P. C. Board</b>			
R712	06S70072F45	470 ohm 1/4W	<b>IC's</b>			
R714	06T15443W79	12K ohm	○ Q401	48T63461F01	CP., 2SC2411K	
R715	06T15443W63	2.7K ohm	● Q401	48T63461F01	CP., 2SC2411K	
R801	06S70072F45	470 ohm 1/4W	○ Q402	48T63461F01	CP., 2SC2411K	
R802	06S64996F02	100K ohm	● Q402	48T63461F01	CP., 2SC2411K	
R803	06S70072F55	1.2K ohm 1/4W	○ Q403	48T63461F01	CP., 2SC2411K	
R804	06S70072F55	1.2K ohm 1/4W	● Q403	48T63461F01	CP., 2SC2411K	
R805	06S64995F77	10K ohm	○ Q404	48T63461F01	CP., 2SC2411K	
R806	06S70072F77	10K ohm 1/4W	● Q404	48T63461F01	CP., 2SC2411K	
R807	06S64995F93	47K ohm	○ Q405	48T62967F03	CP., DTC124K	
R808	06S64995F77	10K ohm	● Q405	48T62967F03	CP., DTC124K	
R809	06S64996F02	100K ohm	○ Q406	48T63461F01	CP., 2SC2411K	
R810	06S64995F69	4.7K ohm	● Q406	48T63461F01	CP., 2SC2411K	
R811	06S70072F03	6.8 ohm 1/4W	○ Q410	48T62967F03	CP., DTC124K	
R812	06S70072F03	6.8 ohm 1/4W	● Q410	48T62967F03	CP., DTC124K	
R813	06S70072F03	6.8 ohm 1/4W	○ Q410	48T63461F01	CP., 2SC2411K	
R814	06S64995F77	10K ohm	● Q410	48T63461F01	CP., 2SC2411K	
R815	06S70072F61	2.2K ohm 1/4W	○ Q410	48T62967F03	CP., DTC124K	
R816	06S64995F77	10K ohm	● Q410	48T62967F03	CP., DTC124K	
R817	06S64995F69	4.7K ohm	△ Q410	48T62967F03	CP., DTC124K	
R818	06S64995F77	10K ohm	<b>Transistors</b>			
R819	06S70072F57	1.5K ohm 1/4W	○ R822	06S64995F85	22K ohm	
R820	06S64995F77	10K ohm	● R822	06S64995F85	22K ohm	
R821	06S70072F57	1.5K ohm 1/4W	△ R822	06S64995F85	22K ohm	
○ R822	06S64995F85	22K ohm	▲ R822	06S64995F85	22K ohm	
● R822	06S64995F85	22K ohm	○ R823	06S64995F85	22K ohm	
△ R822	06S64995F85	22K ohm	● R823	06S64995F85	22K ohm	
▲ R822	06S64995F85	22K ohm	● R823	06S64995F85	22K ohm	
○ R823	06S64995F85	22K ohm	△ R823	06S64995F85	22K ohm	
● R823	06S64995F85	22K ohm	▲ R823	06S64995F85	22K ohm	
△ R823	06S64995F85	22K ohm	▲ R823	06S64995F85	22K ohm	
▲ R823	06S64995F85	22K ohm	R824	06S64995F68	4.3K ohm	
R825	06S70072F57	1.5K ohm 1/4W	R826	06S70072F57	1.5K ohm 1/4W	
R826	06S70072F57	1.5K ohm 1/4W	R830	06S70072F77	10K ohm 1/4W	
R830	06S70072F77	10K ohm 1/4W	R841	06S64995F77	10K ohm	
R841	06S64995F77	10K ohm	R851	06S64995F77	10K ohm	
R851	06S64995F77	10K ohm	R852	06S64996F10	220K ohm	
R852	06S64996F10	220K ohm	R853	06S64995F61	2.2K ohm	
R853	06S64995F61	2.2K ohm	R854	06S70072F55	1.2K ohm 1/4W	
R854	06S70072F55	1.2K ohm 1/4W	R855	06S70072F55	1.2K ohm 1/4W	
R855	06S70072F55	1.2K ohm 1/4W	<b>Diodes</b>			
○ D401	48T64134F01	CP., DA204K	● D401	48T64134F01	CP., DA204K	
D402	48T64134F01	CP., DA204K	○ D402	48T64134F01	CP., DA204K	
D403	48T64134F01	CP., DA204K	○ D403	48T64134F01	CP., DA204K	
D404	48T64134F01	CP., DA204K	○ D404	48T64134F01	CP., DA204K	
○ D405	48T64134F01	CP., DA204K	● D405	48T64134F01	CP., DA204K	
D405	48T64134F01	CP., DA204K	△ D405	48T64134F01	CP., DA204K	
● D405	48T64134F01	CP., DA204K	▲ D405	48T64134F01	CP., DA204K	
△ D405	48T64134F01	CP., DA204K	○ D406	48T64134F01	CP., DA204K	
▲ D405	48T64134F01	CP., DA204K	● D406	48T64134F01	CP., DA204K	
○ D406	48T64134F01	CP., DA204K	○ D406	48T64134F01	CP., DA204K	
● D406	48T64134F01	CP., DA204K	● D407	48T64134F01	CP., DA204K	
○ D407	48T64134F01	CP., DA204K	● D407	48T64134F01	CP., DA204K	
● D407	48T64134F01	CP., DA204K	△ D407	48T64134F01	CP., DA204K	
△ D407	48T64134F01	CP., DA204K	▲ D407	48T64134F01	CP., DA204K	
▲ D407	48T64134F01	CP., DA204K	X ZD401	48T91071F11	Zener, HZS5BLL	
○ ZD401	48T91071F11	Zener, HZS5BLL	☆ ZD401	48T91071F11	Zener, HZS5BLL	
□ ZD401	48T91071F11	Zener, HZS5BLL	■ ZD401	48T91071F11	Zener, HZS5BLL	

Note : ○ : For CDM-7823 Model Only,

△ : For CDE-7822 Model Only,

× : For CDE-7821 Model Only,

□ : For CDE-7820 Model Only,

● : For CDM-7823E Model Only,

▲ : For CDE-7822E Model Only,

☆ : For CDE-7821E Model Only,

■ : For CDE-7820E Model Only,

Others : Common.

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description			
■ ZD401	48T91071F11	Zener, HZS5BLL	△ LD408	48T65477W03	CP., SML-010PTT87 (GRN)			
○ ZD402	48T62934F26	Zener, CP. RD6.2MB3	▲ LD408	48T65477W03	CP., SML-010PTT87 (GRN)			
● ZD402	48T62934F26	Zener, CP. RD6.2MB3	✗ LD408	48T65477W03	CP., SML-010PTT87 (GRN)			
△ ZD402	48T62934F26	Zener, CP. RD6.2MB3	☆ LD408	48T65477W03	CP., SML-010PTT87 (GRN)			
▲ ZD402	48T62934F26	Zener, CP. RD6.2MB3	□ LD408	48T65477W03	CP., SML-010PTT87 (GRN)			
<b>Lamps</b>								
○ PL401	65T75231W01	9V-85mA	■ LD408	48T65477W03	CP., SML-010PTT87 (GRN)			
○ PL402	65T75231W02	9V-85mA	△ LD409	48T65477W03	CP., SML-010PTT87 (GRN)			
● PL402	65T75231W02	9V-85mA	▲ LD409	48T65477W03	CP., SML-010PTT87 (GRN)			
○ PL403	65T75233W02	6V-80mA	✗ LD409	48T65477W03	CP., SML-010PTT87 (GRN)			
● PL403	65T75233W02	6V-80mA	☆ LD409	48T65477W03	CP., SML-010PTT87 (GRN)			
○ PL404	65T75233W02	6V-80mA	□ LD409	48T65477W03	CP., SML-010PTT87 (GRN)			
● PL404	65T75233W02	6V-80mA	■ LD409	48T65477W03	CP., SML-010PTT87 (GRN)			
○ PL405	65T75233W02	6V-80mA	<b>Switches</b>					
● PL405	65T75233W02	6V-80mA	○ S401	40T75234W01	Tact, SKQNAC (PWR)			
○ PL406	65T75232W02	6V-80mA	○ S402	40T75234W01	Tact, SKQNAC (CLOCK)			
● PL406	65T75232W02	6V-80mA	○ S403	40T55571W01	Tact, SKQAXX (VOL UP)			
PL408	65T75233W01	6V-80mA	● S403	40T55571W01	Tact, SKQAXX (VOL UP)			
PL409	65T75233W01	6V-80mA	△ S403	40T55571W01	Tact, SKQAXX (VOL UP)			
PL410	65T75232W01	6V-80mA	▲ S403	40T55571W01	Tact, SKQAXX (VOL UP)			
PL411	65T75232W01	6V-80mA	✗ S404	40T75234W01	Tact, SKQNAC (VOL UP)			
PL413	65T75233W01	6V-80mA	☆ S404	40T75234W01	Tact, SKQNAC (VOL UP)			
<b>LED's</b>			□ S404	40T75234W01	Tact, SKQNAC (VOL UP)			
○ LD401	48T65477W02	CP., SML-010LTT87 (RED)	■ S404	40T75234W01	Tact, SKQNAC (VOL UP)			
● LD401	48T65477W02	CP., SML-010LTT87 (RED)	○ S405	40T75234W01	Tact, SKQNAC (MODE / LOUD)			
△ LD401	48T65477W02	CP., SML-010LTT87 (RED)	○ S406	40T75234W01	Tact, SKQNAC (TUNER / BAND / D.A.P)			
▲ LD401	48T65477W02	CP., SML-010LTT87 (RED)	● S406	40T75234W01	Tact, SKQNAC (TUNER / BAND / D.A.P)			
○ LD402	48T75261W01	CP., SML-020PDTT87 (ORG / GRN)	△ S406	40T75234W01	Tact, SKQNAC (D.A.P)			
● LD402	48T75261W01	CP., SML-020PDTT87 (ORG / GRN)	▲ S406	40T75234W01	Tact, SKQNAC (D.A.P)			
○ LD403	48T75261W01	CP., SML-020PDTT87 (ORG / GRN)	✗ S406	40T75234W01	Tact, SKQNAC (D.A.P)			
● LD403	48T75261W01	CP., SML-020PDTT87 (ORG / GRN)	☆ S406	40T75234W01	Tact, SKQNAC (D.A.P)			
○ LD404	48T75261W01	CP., SML-020PDTT87 (ORG / GRN)	□ S406	40T75234W01	Tact, SKQNAC (D.A.P)			
● LD404	48T75261W01	CP., SML-020PDTT87 (ORG / GRN)	■ S406	40T75234W01	Tact, SKQNAC (D.A.P)			
○ LD405	48T75261W01	CP., SML-020PDTT87 (ORG / GRN)	○ S407	40T75234W01	Tact, SKQNAC (DISC PLAY / PAUSE)			
● LD405	48T75261W01	CP., SML-020PDTT87 (ORG / GRN)	● S407	40T75234W01	Tact, SKQNAC (DISC PLAY / PAUSE)			
○ LD406	48T75261W01	CP., SML-020PDTT87 (ORG / GRN)	△ S407	40T75234W01	Tact, SKQNAC (TUNER / BAND)			
● LD406	48T75261W01	CP., SML-020PDTT87 (ORG / GRN)	▲ S407	40T75234W01	Tact, SKQNAC (TUNER / BAND)			
△ LD407	48T65477W03	CP., SML-010PTT87 (GRN)	✗ S407	40T75234W01	Tact, SKQNAC (TUNER / BAND)			
▲ LD407	48T65477W03	CP., SML-010PTT87 (GRN)	☆ S407	40T75234W01	Tact, SKQNAC (TUNER / BAND)			
✗ LD407	48T65477W03	CP., SML-010PTT87 (GRN)	□ S407	40T75234W01	Tact, SKQNAC (TUNER / BAND)			
☆ LD407	48T65477W03	CP., SML-010PTT87 (GRN)	■ S407	40T75234W01	Tact, SKQNAC (TUNER / BAND)			
□ LD407	48T65477W03	CP., SML-010PTT87 (GRN)	○ S408	40T75234W01	Tact, SKQNAC (6DISC PLAY / PAUSE)			
■ LD407	48T65477W03	CP., SML-010PTT87 (GRN)	<b>Others : Common</b>					

Note : ○ : For CDM-7823 Model Only,

● : For CDM-7823E Model Only,

△ : For CDE-7822 Model Only,

▲ : For CDE-7822E Model Only,

✗ : For CDE-7821 Model Only,

☆ : For CDE-7821E Model Only,

□ : For CDE-7820 Model Only,

■ : For CDE-7820E Model Only,

Others : Common.

Symbol No.	Part No.	Description
● S408	40T75234W01	Tact, SKQNAC (6DISC PLAY / PAUSE)
△ S408	40T75234W01	Tact, SKQNAC (DISC PLAY / PAUSE)
▲ S408	40T75234W01	Tact, SKQNAC (DISC PLAY / PAUSE)
× S408	40T75234W01	Tact, SKQNAC (DISC PLAY / PAUSE)
☆ S408	40T75234W01	Tact, SKQNAC (DISC PLAY / PAUSE)
□ S408	40T75234W01	Tact, SKQNAC (DISC PLAY / PAUSE)
■ S408	40T75234W01	Tact, SKQNAC (DISC PLAY / PAUSE)
○ S409	40T55571W01	Tact, SKQAXX (VOL DN)
● S409	40T55571W01	Tact, SKQAXX (VOL DN)
△ S409	40T55571W01	Tact, SKQAXX (VOL DN)
▲ S409	40T55571W01	Tact, SKQAXX (VOL DN)
× S410	40T75234W01	Tact, SKQNAC (VOL DN)
☆ S410	40T75234W01	Tact, SKQNAC (VOL DN)
□ S410	40T75234W01	Tact, SKQNAC (VOL DN)
■ S410	40T75234W01	Tact, SKQNAC (VOL DN)
S411	40T55656W03	Tact, SKQMAJ (DN / REW)
○ S412	40T55656W03	Tact, SKQMAJ (1)
● S412	40T55656W03	Tact, SKQMAJ (1)
△ S412	40T55656W03	Tact, SKQMAJ (1 / M.I.X.)
▲ S412	40T55656W03	Tact, SKQMAJ (1 / M.I.X.)
× S412	40T55656W03	Tact, SKQMAJ (1 / M.I.X.)
☆ S412	40T55656W03	Tact, SKQMAJ (1 / M.I.X.)
□ S412	40T55656W03	Tact, SKQMAJ (1 / M.I.X.)
■ S412	40T55656W03	Tact, SKQMAJ (1 / M.I.X.)
S413	40T55656W03	Tact, SKQMAJ (4 / CT)
S414	40T55656W03	Tact, SKQMAJ (5 / H)
○ S415	40T55656W03	Tact, SKQMAJ (2)
● S415	40T55656W03	Tact, SKQMAJ (2)
△ S415	40T55656W03	Tact, SKQMAJ (2 / RPT)
▲ S415	40T55656W03	Tact, SKQMAJ (2 / RPT)
× S415	40T55656W03	Tact, SKQMAJ (2 / RPT)
☆ S415	40T55656W03	Tact, SKQMAJ (2 / RPT)
□ S415	40T55656W03	Tact, SKQMAJ (2 / RPT)
■ S415	40T55656W03	Tact, SKQMAJ (2 / RPT)
S416	40T55656W03	Tact, SKQMAJ (EJECT)
○ S417	40T55656W03	Tact, SKQMAJ (SCAN)
● S417	40T55656W03	Tact, SKQMAJ (SCAN)
○ S418	40T55656W03	Tact, SKQMAJ (REPEAT)
● S418	40T55656W03	Tact, SKQMAJ (REPEAT)
○ S419	40T55656W03	Tact, SKQMAJ (M.I.X.)
● S419	40T55656W03	Tact, SKQMAJ (M.I.X.)
S420	40T55656W03	Tact, SKQMAJ (TUNE · A.ME)
S421	40T55656W03	Tact, SKQMAJ (UP / FF)

Symbol No.	Part No.	Description
○ S422	40T55656W03	Tact, SKQMAJ (3)
● S422	40T55656W03	Tact, SKQMAJ (3)
△ S422	40T55656W03	Tact, SKQMAJ (3 / SCAN)
▲ S422	40T55656W03	Tact, SKQMAJ (3 / SCAN)
× S422	40T55656W03	Tact, SKQMAJ (3 / SCAN)
☆ S422	40T55656W03	Tact, SKQMAJ (3 / SCAN)
□ S422	40T55656W03	Tact, SKQMAJ (3 / SCAN)
■ S423	40T55656W03	Tact, SKQMAJ (3 / SCAN)
		Tact, SKQMAJ (6 / M)
<b>Capacitors</b>		
X E401	08S65128F72	CP., 0.022μF
E401	23T25191W05	ELY., 10μF / 6.3V
C402	08S82122F57	CP., 680pF
X E402	23T25191W05	ELY., 10μF / 6.3V
☆ E402	23T25191W05	ELY., 10μF / 6.3V
□ E402	23T25191W05	ELY., 10μF / 6.3V
■ E402	23T25191W05	ELY., 10μF / 6.3V
○ C403	08S65128F72	CP., 0.022μF
● C403	08S65128F72	CP., 0.022μF
△ C403	08S65128F72	CP., 0.022μF
▲ C403	08S65128F72	CP., 0.022μF
<b>Resistors (All resistors are chip 1/4W ± 5% unless otherwise noted.)</b>		
X R401	06S70072F41	330K ohm
☆ R401	06S70072F41	330K ohm
□ R401	06S70072F41	330K ohm
■ R401	06S70072F41	330K ohm
R402	06S53330F77	10K ohm 1/8W
R403	06S53330F77	10K ohm 1/8W
R404	06S64995F77	10K ohm 1/10W
R405	06S64995F77	10K ohm 1/10W
R406	06S64995F75	8.2K ohm 1/10W
○ R407	06S64995F77	10K ohm 1/10W
● R407	06S64995F77	10K ohm 1/10W
△ R407	06S64995F77	10K ohm 1/10W
▲ R407	06S64995F77	10K ohm 1/10W
○ R408	06S64995F77	10K ohm 1/10W
● R408	06S64995F77	10K ohm 1/10W
△ R408	06S64995F77	10K ohm 1/10W
○ R409	06S64995F77	10K ohm 1/10W
● R409	06S64995F77	10K ohm 1/10W
○ R410	06S70072F43	390 ohm

Note : ○ : For CDM-7823 Model Only,  
     △ : For CDE-7822 Model Only,  
     × : For CDE-7821 Model Only,  
     □ : For CDE-7820 Model Only,

● : For CDM-7823E Model Only,  
     ▲ : For CDE-7822E Model Only,  
     ☆ : For CDE-7821E Model Only,  
     ■ : For CDE-7820E Model Only  
     Others : Common.

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description	
● R410	06S70072F43	390 ohm	R465	06S70072F27	82 ohm	
△ R410	06S70072F43	390 ohm	R466	06S70072F48	620 ohm	
▲ R410	06S70072F43	390 ohm	R467	06S70072F47	560 ohm	
R411	06S64995F55	1.2K ohm 1/10W	○ R468	06S70072F37	220 ohm	
R412	06S64995F57	1.5K ohm 1/10W	● R468	06S70072F37	220 ohm	
R413	06S64995F61	2.2K ohm 1/10W	○ R469	06S70072F36	200 ohm	
R414	06S64995F65	3.3K ohm 1/10W	● R469	06S70072F36	200 ohm	
R415	06S64995F71	5.6K ohm 1/10W	△ R469	06S70072F55	1.2K ohm	
R416	06S64995F78	11K ohm 1/10W	▲ R469	06S70072F55	1.2K ohm	
R417	06S64995F89	33K ohm 1/10W	× R469	06S70072F55	1.2K ohm	
R421	06S64995F55	1.2K ohm 1/10W	☆ R469	06S70072F55	1.2K ohm	
R422	06S64995F57	1.5K ohm 1/10W	□ R469	06S70072F55	1.2K ohm	
R423	06S64995F61	2.2K ohm 1/10W	■ R469	06S70072F55	1.2K ohm	
R424	06S64995F65	3.3K ohm 1/10W	△ R471	06S70072F55	1.2K ohm	
R425	06S64995F71	5.6K ohm 1/10W	▲ R471	06S70072F55	1.2K ohm	
R426	06S64995F78	11K ohm 1/10W	× R471	06S70072F55	1.2K ohm	
R427	06S64995F89	33K ohm 1/10W	☆ R471	06S70072F55	1.2K ohm	
R431	06S64995F55	1.2K ohm 1/10W	□ R471	06S70072F55	1.2K ohm	
R432	06S64995F57	1.5K ohm 1/10W	■ R471	06S70072F55	1.2K ohm	
R433	06S64995F61	2.2K ohm 1/10W	R472	06S70072F48	620 ohm	
R434	06S64995F65	3.3K ohm 1/10W	R480	06S64995F53	1K ohm 1/10W	
R435	06S64995F71	5.6K ohm 1/10W	R481	06S64995F53	1K ohm 1/10W	
R436	06S64995F78	11K ohm 1/10W	R482	06S64995F53	1K ohm 1/10W	
○ R440	06S70072F53	1K ohm	R483	06S64995F53	1K ohm 1/10W	
● R440	06S70072F53	1K ohm	R484	06S64995F93	47K ohm 1/10W	
○ R441	06S70072F61	2.2K ohm	<b>LED P. C. Board</b>			
● R441	06S70072F61	2.2K ohm	<b>LED's</b>			
○ R443	06S70072F53	1K ohm	LD1501	48T16057W02	AN501-B1 (RED)	
● R443	06S70072F53	1K ohm	LD1502	48T16057W02	AN501-B1 (RED)	
○ R444	06S70072F61	2.2K ohm	LD1503	48T16057W02	AN501-B1 (RED)	
● R444	06S70072F61	2.2K ohm	LD1504	48T16057W02	AN501-B1 (RED)	
○ R446	06S70072F61	2.2K ohm	LD1505	48T16057W02	AN501-B1 (RED)	
● R446	06S70072F61	2.2K ohm	<b>DP-Main P. C. Board</b>			
○ R450	06S70072F13	22 ohm	<b>IC's</b>			
● R450	06S70072F13	22 ohm	IC1101	51T65304W03	TC9284AF	
R452	06S70072F04	8.2 ohm	IC1102	51T25984W01	TA8191F	
○ R454	06S70072F29	100 ohm	IC1103	51T65291W01	BA6790FP	
● R454	06S70072F29	100 ohm	IC1201	51T65210W01	TA2009F	
○ R455	06S70072F29	100 ohm	IC1202	51T11054W02	NJM78L05UA	
● R455	06S70072F29	100 ohm	IC1507	51T65209W01	BA6287F	
○ R456	06S70072F29	100 ohm				
● R456	06S70072F29	100 ohm				
○ R457	06S70072F29	100 ohm				
● R457	06S70072F29	100 ohm				
R460	06S70072F48	620 ohm				
R461	06S70072F48	620 ohm				
R462	06S70072F28	91 ohm				
R463	06S70072F29	100 ohm				
R464	06S70072F27	82 ohm				

Note : ○ : For CDM-7823 Model Only,

△ : For CDE-7822 Model Only,

× : For CDE-7821 Model Only,

□ : For CDE-7820 Model Only,

● : For CDM-7823E Model Only,

▲ : For CDE-7822E Model Only,

☆ : For CDE-7821E Model Only,

■ : For CDE-7820E Model Only,

Others : Common.

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
<b>Transistors</b>					
Q1102	48T63420F01	CP., 2SA1037K	C1110	08S45676W73	CP., 0.01µF
Q1103	48T80611F01	CP., 2SB1132	E1110	23S55311W23	CP., TAN. 10µF / 10V
Q1112	48T94606F05	CP., DTC114TU	C1111	08S45676W60	CP., 1000pF
Q1113	48T94606F05	CP., DTC114TU	E1111	23S55311W23	CP., TAN. 10µF / 10V
Q1115	48T94606F53	CP., DTA124EU	C1113	08T15399W01	CP., 0.022µF
Q1116	48T94606F03	CP., DTC124EU	E1113	23T25191W12	CP., ELY. 4.7µF / 16V
Q1501	48T80612F01	CP., 2SB1188	C1114	08S45676W68	CP., 3900pF
Q1502	48T94606F03	CP., DTC124EU	C1115	08T35374W02	CP., 0.056µF
Q1503	48T81552F01	CP., 2SD1383K	C1116	08S45677W44	CP., 220pF
Q1508	48T80611F01	CP., 2SB1132	C1117	08S45676W66	CP., 2700pF
<b>Crystal</b>					
X1101	91T45433W92	CP., 16.934MHz	E1117	23T25191W28	CP., ELY. 0.47µF / 50V
<b>Photo Transistors</b>			C1118	08T15399W03	CP., 0.047µF
PT1501	48T84017F15	CP., PS1101W	C1119	08S45677W30	CP., 56pF
PT1502	48T84017F15	CP., PS1101W	C1120	08S45676W73	CP., 0.01µF
PT1503	48T84017F15	CP., PS1101W	E1120	23T25191W05	CP., ELY. 10µF / 6.3V
PT1504	48T84017F15	CP., PS1101W	C1121	08S45677W14	CP., 12pF
PT1505	48T84017F15	CP., PS1101W	E1121	23T25191W05	CP., ELY. 10µF / 6.3V
<b>Diodes</b>			C1122	08S45676W73	CP., 0.01µF
D1501	48T63462F01	CP., DAN202K	E1122	23T25191W42	CP., ELY. 22µF / 6.3V
D1502	48T15512W01	CP., DSM10	C1123	08T15399W03	CP., 0.047µF
D1503	48T15512W01	CP., DSM10	C1124	08S45677W05	CP., 3pF
D1504	48T81063F01	CP., MA159	C1126	08T35374W01	CP., 0.1µF
<b>Capacitors</b>			E1127	23T25191W30	CP., ELY. 1µF / 50V
C1101	08S45676W73	CP., 0.01µF	E1128	23S55311W23	CP., TAN. 10µF / 10V
E1101	23T25191W42	CP., ELY. 22µF / 6.3V	C1129	08S45676W73	CP., 0.01µF
E1102	23T25191W05	CP., ELY. 10µF / 6.3V	C1130	08S45676W05	CP., 3pF
E1103	23T25191W05	CP., ELY. 10µF / 6.3V	C1130	08S45676W69	CP., 0.1µF
C1105	08S45676W67	CP., 3300pF	E1129	23T25191W42	CP., ELY. 1µF / 50V
E1105	23T25191W12	CP., ELY. 4.7µF / 16V	C1130	08S45676W69	CP., 10µF / 10V
C1106	08S45676W67	CP., 3300pF	C1140	08S45676W69	CP., 4700pF
C1107	08S45677W36	CP., 100pF	C1142	08S45676W65	CP., 2200pF
E1107	23S55311W23	CP., TAN. 10µF / 10V	C1150	08S45676W78	CP., 0.047µF
C1108	08S45676W73	CP., 0.01µF	C1151	08S45676W78	CP., 0.047µF
E1108	23S55311W22	CP., TAN. 4.7µF / 10V	C1153	08S45676W78	CP., 0.047µF
C1109	08S45676W73	CP., 0.01µF	C1155	08S45676W78	CP., 0.047µF
E1109	23S55311W22	CP., TAN. 4.7µF / 10V	C1156	08S45677W12	CP., 10pF

Note : ○ : For CDM-7823 Model Only,

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△ : For CDE-7822 Model Only,

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× : For CDE-7821 Model Only,

☆ : For CDE-7821E Model Only,

□ : For CDE-7820 Model Only,

■ : For CDE-7820E Model Only,

Others : Common.

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
C1501	08S45676W73	CP., 0.01μF	R1146	06S45674W75	5.6K ohm
E1501	23T25191W05	CP., ELY. 10μF / 6.3V	R1147	06S45675W02	68K ohm
C1502	08S45676W73	CP., 0.01μF	R1150	06S45674W33	100 ohm
C1503	08S65128F76	CP., 0.1μF	R1151	06S45674W33	100 ohm
E1511	23T25191W05	CP., ELY. 10μF / 6.3V	R1167	06S45675W09	130K ohm
<b>Resistors (All resistors are chip 1/16W ±5% unless otherwise noted.)</b>			R1179	06S45674W67	2.7K ohm
R1102	06S45675W22	470K ohm	R1180	06S45674W81	10K ohm
R1103	06S45674W43	270 ohm	R1181	06S45674W89	22K ohm
R1105	06S45674W91	27K ohm	R1185	06S45674W87	18K ohm
R1106	06S45674W95	39K ohm	R1188	06S45674W69	3.3K ohm
R1107	06S45675W14	220K ohm	R1189	06S45675W22	470K ohm
R1108	06S45675W06	100K ohm	R1190	06S45674W97	47K ohm
R1109	06S45674W87	18K ohm	R1191	06S45674W73	4.7K ohm
R1110	06S45674W61	1.5K ohm	R1196	06S45674W81	10K ohm
R1111	06S45674W87	18K ohm	R1221	06S70072F15	27 ohm 1/4W
R1112	06S45674W95	39K ohm	R1223	06S45674W81	10K ohm
R1113	06S45674W65	2.2K ohm	R1224	06S45674W81	10K ohm
R1114	06S45675W06	100K ohm	R1225	06S45674W81	10K ohm
R1115	06S45674W81	10K ohm	R1226	06S45674W81	10K ohm
R1116	06S45674W97	47K ohm	R1227	06S45674W25	47 ohm
R1117	06S45675W34	2.2M ohm	R1228	06S45674W25	47 ohm
R1118	06S45674W93	33K ohm	R1501	06S45675W06	100K ohm
R1119	06S45674W57	1K ohm	R1502	06S45675W06	100K ohm
R1120	06S45674W81	10K ohm	R1503	06S45675W06	100K ohm
R1121	06S45674W91	27K ohm	R1504	06S45675W06	100K ohm
R1122	06S45674W67	2.7K ohm	R1505	06S45675W06	100K ohm
R1123	06S45675W16	270K ohm	R1506	06S45674W97	47K ohm
R1124	06S45674W87	18K ohm	R1507	06S45674W97	47K ohm
R1125	06S45674W97	47K ohm	R1508	06S45675W22	470K ohm
R1126	06S45674W75	5.6K ohm	R1509	06S45674W81	10K ohm
R1127	06S45675W08	120K ohm	R1510	06S45674W81	10K ohm
R1128	06S45675W06	100K ohm	R1511	06S70072F53	1K ohm 1/4W
R1129	06S45674W85	15K ohm	R1512	06S45674W95	39K ohm
R1130	06S45674W89	22K ohm	R1513	06S45674W95	39K ohm
R1131	06S45674W81	10K ohm	VR1101	18T45357W20	Variable, CP. 150Kohm
R1132	06S45674W81	10K ohm	VR1102	18T45357W14	Variable, CP. 15Kohm
R1133	06S45674W81	10K ohm	VR1103	18T45357W10	Variable, CP. 3.3Kohm
R1134	06S45675W24	560K ohm			
R1135	06S45675W06	100K ohm			
R1136	06S45674W65	2.2K ohm			
R1137	06S45674W81	10K ohm			
R1138	06S45674W85	15K ohm			
R1139	06S45674W73	4.7K ohm			
R1140	06S45674W73	4.7K ohm			
R1144	06S45674W57	1K ohm			
R1145	06S45674W49	470 ohm			

Note : ○ : For CDM-7823 Model Only,

● : For CDM-7823E Model Only,

△ : For CDE-7822 Model Only,

▲ : For CDE-7822E Model Only,

× : For CDE-7821 Model Only,

☆ : For CDE-7821E Model Only,

□ : For CDE-7820 Model Only,

■ : For CDE-7820E Model Only,

Others : Common.

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
<b>Miscellaneous</b>					
○ CB401	09T75038W16	Connector (16P)			
● CB401	09T75038W16	Connector (16P)			
△ CB401	09T75038W16	Connector (16P)			
▲ CB401	09T75038W16	Connector (16P)			
× CB401	09T75038W12	Connector (16P)			
☆ CB401	09T75038W12	Connector (16P)			
□ CB401	09T75038W12	Connector (16P)			
■ CB401	09T75038W12	Connector (16P)			
CH401	09T75039W16	Connector (16P)			
ET001	01T15513W17	Antenna Receptacle			
○ ET201	01T75188W03	Output RCA Connector			
● ET201	01T75188W03	Output RCA Connector			
△ ET201	01T75188W03	Output RCA Connector			
▲ ET201	01T75188W03	Output RCA Connector			
× ET201	01T75188W02	Output RCA Connector			
☆ ET201	01T75188W02	Output RCA Connector			
ET801	09T55175W16	Power Supply Connector			
HD1201	88T55261W01	Pick Up Unit			
○ JK501	09T55493W01	DIN Connector			
● JK501	09T55493W01	DIN Connector			
LCD401	65T75148W01	LCD Display			
M1301	01V53900W77	Assy., Loading Motor (3.5V-110mA)			
M1302	59T55262W01	Motor, Spindle (3V-120mA)			
M1303	01V54100W69	Assy., Sled Motor (3.5V-110mA)			
S1301	40T71025F03	Switch, Detector (CAM END)			
S1302	40T71025F03	Switch, Detector (LIMIT)			
SD1301	01T55277W01	Assy., Solenoid			

Note : ○ : For CDM-7823 Model Only,  
 △ : For CDE-7822 Model Only,  
 × : For CDE-7821 Model Only,  
 □ : For CDE-7820 Model Only,

● : For CDM-7823E Model Only,  
 ▲ : For CDE-7822E Model Only,  
 ☆ : For CDE-7821E Model Only,  
 ■ : For CDE-7820E Model Only,

Others : Common.

# Cabinet Assembly Parts List

Note : No parts number on parts list are not supplied.

Symbol No.	Index	Part No.	Description	Symbol No.	Index	Part No.	Description		
○	1	3-C	01V71900W41	Assy., Nose Unit	×	20	5-B	13D70546W02	Assy., Nosepiece
●	1	3-C	01V71900W47	Assy., Nose Unit	☆	20	5-B	13D70546W07	Assy., Nosepiece
△	1	3-C	01V73100W69	Assy., Nose Unit	□	20	5-B	13D70546W03	Assy., Nosepiece
▲	1	3-C	01V73100W64	Assy., Nose Unit	■	20	5-B	13D70546W04	Assy., Nosepiece
×	1	3-C	01V73100W59	Assy., Nose Unit	21	3-C	13D70403W01	Nose, Bottom	
☆	1	3-C	01V74500W41	Assy., Nose Unit	22		03S68555F39	Screw, Pan (M1.7×10)	
□	1	3-C	01V73100W04	Assy., Nose Unit	24	5-C	26A70309W01	Reflector, Sheet	
■	1	3-C	01V73100W74	Assy., Nose Unit	25	4-B	75T75253W01	Rubber, Electric	
	4	5-D	13C70398W01	Assy., Front Escutcheon	26	4-B	15B70310W01	Cover, LCD	
	6	4-B	33C70276W01	Assy., Face Plate	27	4-C	15B70308W01	Case, LCD	
	7	2-E	75S62361F43	Cushion, Rubber	28	5-C	61A70307W01	Lens, LCD	
	8		03S44205G29	Screw, Pan (M2.6×6)					
	9	2-C	03S38013W05	Screw, Pan (M2.6×16)					
○	10	4-F	03S68555F04	Screw, Pan (M2.6×6)					
●	10	4-F	03S68555F04	Screw, Pan (M2.6×6)					
	11		03S38013W13	Screw, Bind (M2.6×6)					
○	14	3-F	77B70086W01	FM/AM Tuner Unit, MB4A4010 (FE001)					
●	14	3-F	77B70471W01	FM/AM Tuner Unit, MB4E4010 (FE001)					
△	14	3-F	77B70086W01	FM/AM Tuner Unit, MB4A4010 (FE001)					
▲	14	3-F	77B70471W01	FM/AM Tuner Unit, MB4E4010 (FE001)					
×	14	3-F	77B70086W01	FM/AM Tuner Unit, MB4A4010 (FE001)					
☆	14	3-F	77B70471W01	FM/AM Tuner Unit, MB4E4010 (FE001)					
□	14	3-F	77B70086W01	FM/AM Tuner Unit, MB4A4010 (FE001)					
■	14	3-F	77B70471W01	FM/AM Tuner Unit, MB4E4010 (FE001)					
○	15	4-C	43B70404W01	Spacer, Remote					
●	15	4-C	43B70404W01	Spacer, Remote					
△	15	4-C	43B70404W01	Spacer, Remote					
▲	15	4-C	43B70404W01	Spacer, Remote					
○	16	4-C	07A71642W01	Bracket, Remote					
●	16	4-C	07A71642W01	Bracket, Remote					
△	16	4-C	07A71642W01	Bracket, Remote					
▲	16	4-C	07A71642W01	Bracket, Remote					
	19	2-E	81D60580W02	CD Deck Mechanism, DP24H02A					
○	20	5-B	13C70389W03	Assy., Nosepiece					
●	20	5-B	13C70389W04	Assy., Nosepiece					
△	20	5-B	13C70389W01	Assy., Nosepiece					
▲	20	5-B	13C70389W02	Assy., Nosepiece					

Note : ○ : For CDM-7823 Model Only,

△ : For CDE-7822 Model Only,

× : For CDE-7821 Model Only,

□ : For CDE-7820 Model Only,

● : For CDM-7823E Model Only,

▲ : For CDE-7822E Model Only,

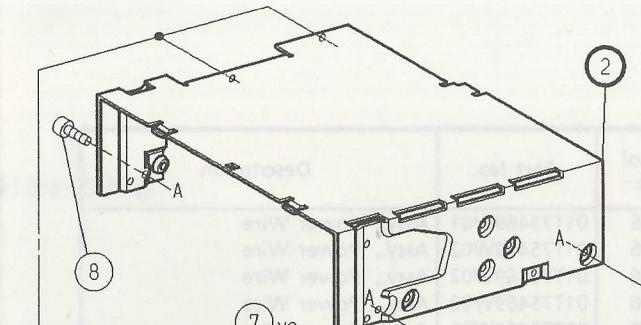
☆ : For CDE-7821E Model Only,

■ : For CDE-7820E Model Only,

Others : Common.

# Exploded View (Cabinet)

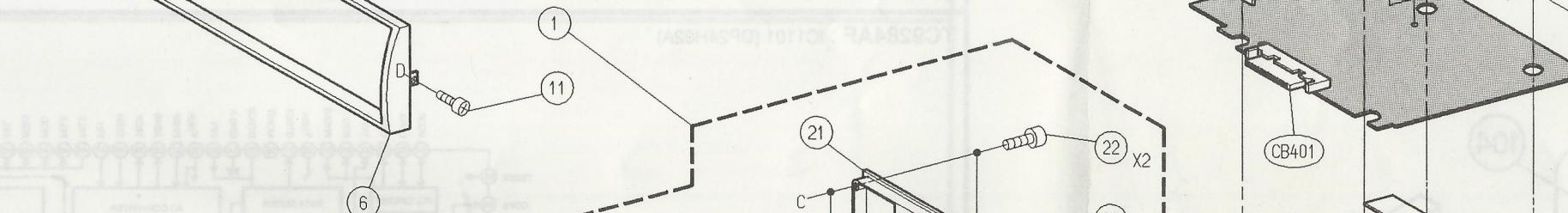
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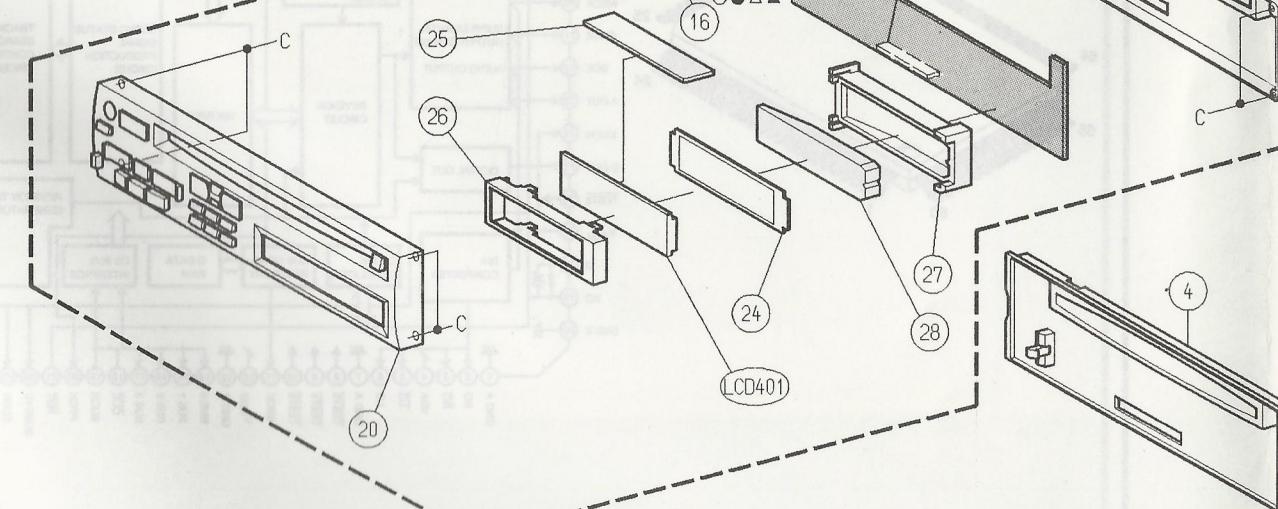
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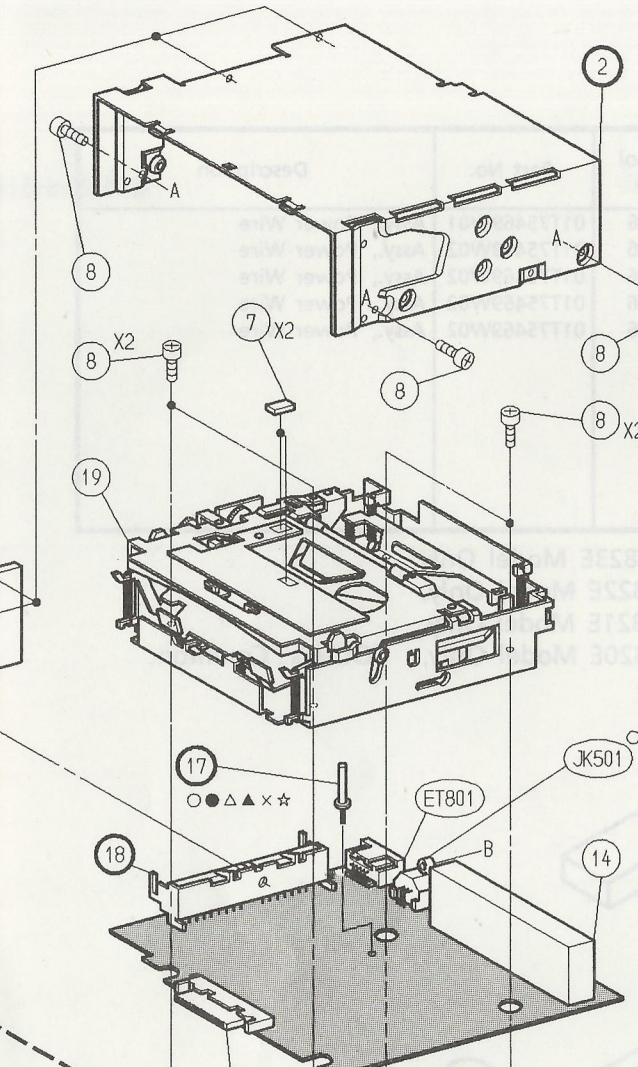
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4



5



Note : O : For CDM-7823 Model Only,  
 △ : For CDE-7822 Model Only,  
 × : For CDE-7821 Model Only,  
 □ : For CDE-7820 Model Only,  
 ● : For CDM-7823E Model Only,  
 ▲ : For CDE-7822E Model Only,  
 ★ : For CDE-7821E Model Only,  
 ■ : For CDE-7820E Model Only,  
 Others : Common.

A

B - 53 -

C

D

E

F - 54 -

G

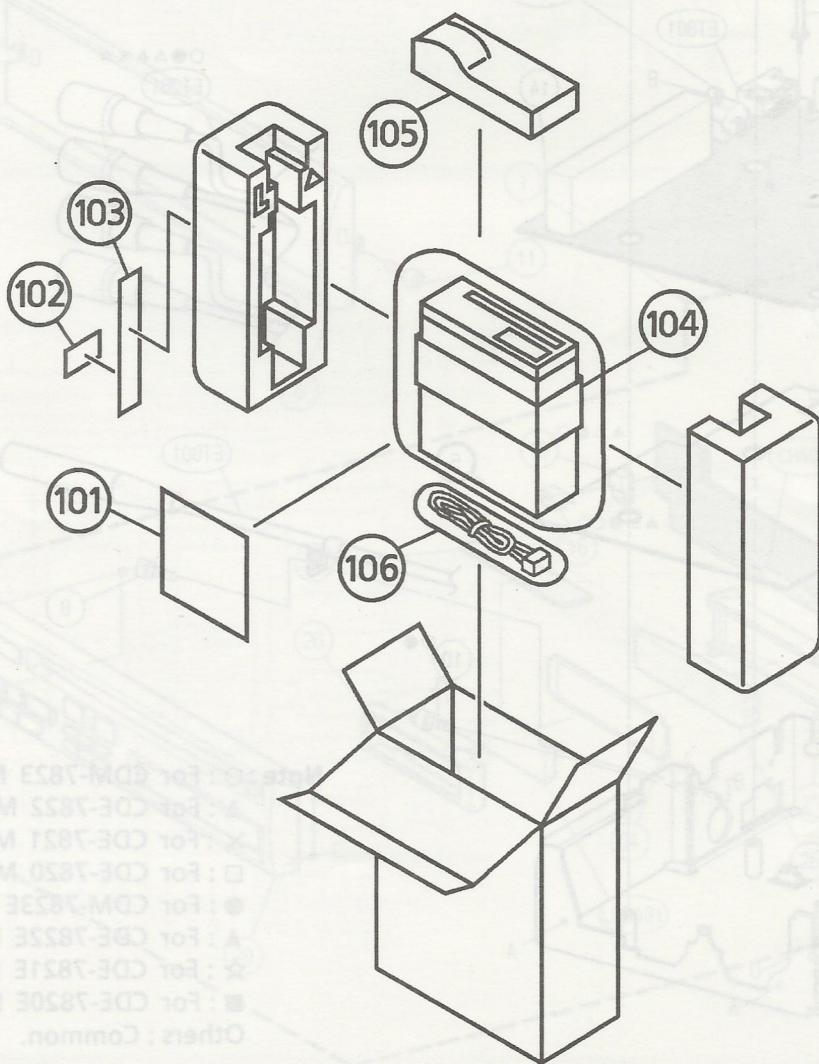
# Packing Assembly Parts List

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
101	68P61329W58	Owner's Manual	▲ 106	01T75469W01	Assy., Power Wire
102-1	02B47353F01	Nut, Hex (M5)	×	01T75469W02	Assy., Power Wire
102-2	03572235F13	Screw, Countersink (M5×8)	★ 106	01T75469W02	Assy., Power Wire
102-3	46A42363F01	Stud, Bolt	□ 106	01T75469W02	Assy., Power Wire
103	07B64552F01	Bracket, Strap Receiver	■ 106	01T75469W02	Assy., Power Wire
○ 104	15D50406W01	Case, Inner			
○ 105	15D60773W01	Carring, Case			
● 106	01T75469W01	Assy., Power Wire			
● 106	01T75469W01	Assy., Power Wire			
△ 106	01T75469W01	Assy., Power Wire			

Note : ○ : For CDM-7823 Model Only,  
 △ : For CDE-7822 Model Only,  
 × : For CDE-7821 Model Only,  
 □ : For CDE-7820 Model Only,

● : For CDM-7823E Model Only,  
 ▲ : For CDE-7822E Model Only,  
 ★ : For CDE-7821E Model Only,  
 ■ : For CDE-7820E Model Only,      Others : Common.

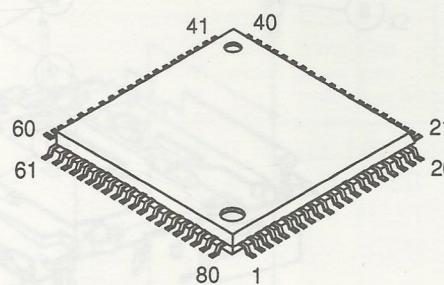
## Packing Method View



# Semi - Conductor Lead Identifications

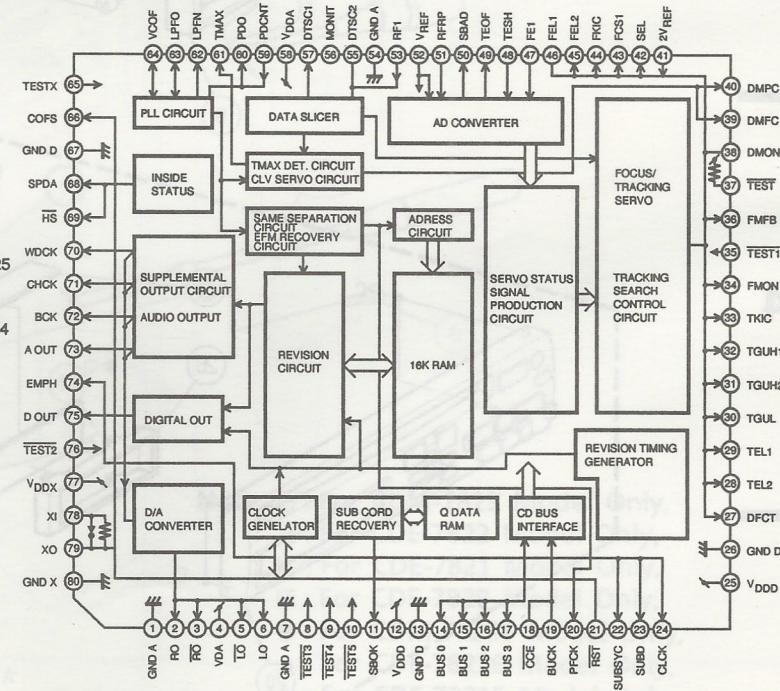
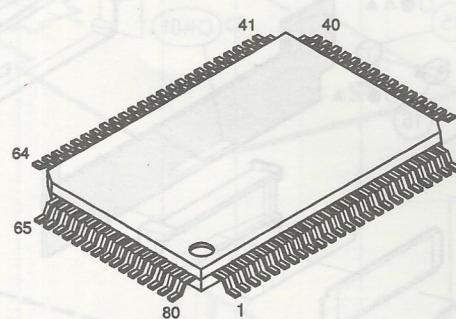
Note : For the parts not mentioned, refer to the Schematic Diagram.

75177W02 : IC601



PIN NO.	CODE ADDRESS	I/O									
1	NOSE	I	21	B-HOLD	I	41	BUS2	I/O	61	PWR-IC	O
2	KEY-3	I	22	A-HOLD	I	42	BUS3	I/O	62	PULL DOWN	-
3	KEY-2	I	23	L-CONT	O	43	CCE	O	63	VCC	-
4	KEY-1	I	24	PH (C)	I	44	BUCK	O	64	INTLZ	I
5	GND	-	25	PH (A)	I	45	SOL	O	65	AREA-1	I
6	GND	-	26	PH (B)	I	46	V-CONT	O	66	AREA-2	I
7	X2	O	27	PH (D)	I	47	PLL-D-I	I	67	AREA-3	I
8	X1	I	28	PH (E)	I	48	PLL-D-O	O	68	NOSE-PWR	O
9	GND	-	29	LIMIT-SW	I	49	PLL-CLK	O	69	REMOCON	I
10	OSC1	I	30	CAM-END	I	50	PLL-CE	O	70	CHG-D-I	I
11	OSC2	O	31	LOAD-FWD	O	51	SD/ST	I	71	CHG-D-O	O
12	RESET	I	32	LOAD-BWD	O	52	NFP-OUT2	O	72	AVCC	-
13	GND	-	33	LOCK	O	53	NFP-OUT1	O	73	AREA-4	I
14	LCD-CLK	O	34	A-HOLD	-	54	A-MUTE	O	74	PULL DOWN	-
15	LCD-CE	O	35	PULL DOWN	-	55	VOL-CLK	O	75	PULL DOWN	-
16	LCD-DATA	O	36	PULL DOWN	-	56	VOL-DATA	O	76	PULL DOWN	-
17	LCD-INH	O	37	PULL DOWN	-	57	PWR-ON	O	77	GND	-
18	LCD-ON	O	38	PULL DOWN	-	58	IN-INT	I	78	GND	-
19	LED-IND	O	39	BUS0	I/O	59	OUT-REM	O	79	S-METER	I
20	AMB/GRN	O	40	BUS1	I/O	60	P-ANT	O	80	T-SENS	I

TC9284AF : IC1101 (DP24H02A)



TA8191F : IC1102 (DP24H02A)

