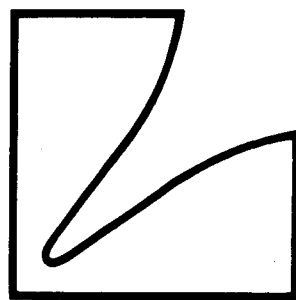


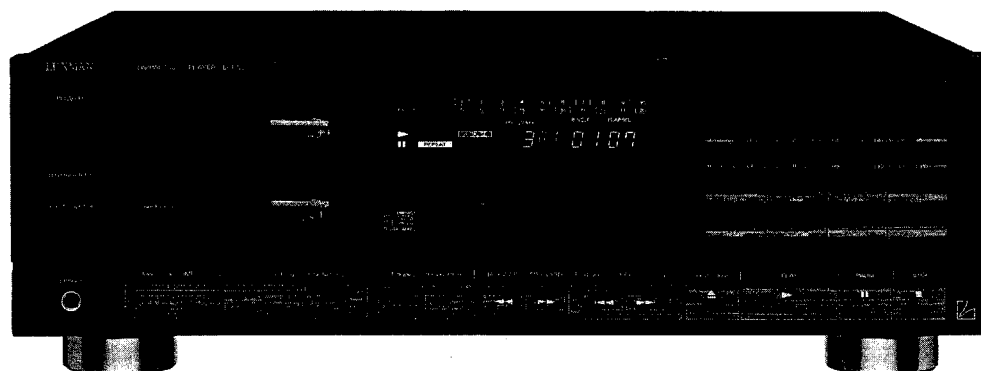
SERVICE MANUAL



Compact Disc Player

D-107u

- Regarding the disassembly for the cabinet section and CD mechanical section, please refer to the D-105u Service Manual (Part No. 68P20520W02).
- Disassemblyの〈Cabinet Section〉と〈CD Mechanism Section〉の項目については、D-105u (68P20520W02) のサービスマニュアルを参照願います。



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Additional Schematic Diagram Inserted

Specifications

< CD SECTION >

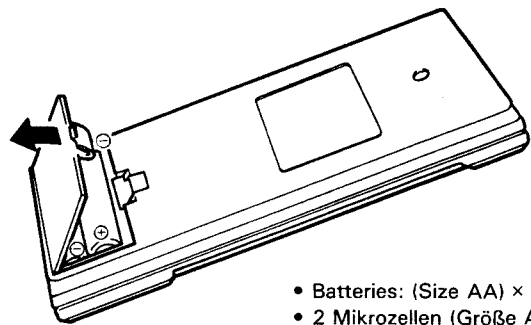
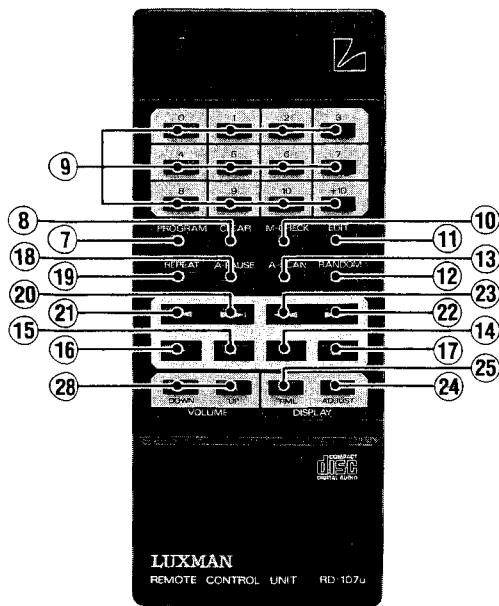
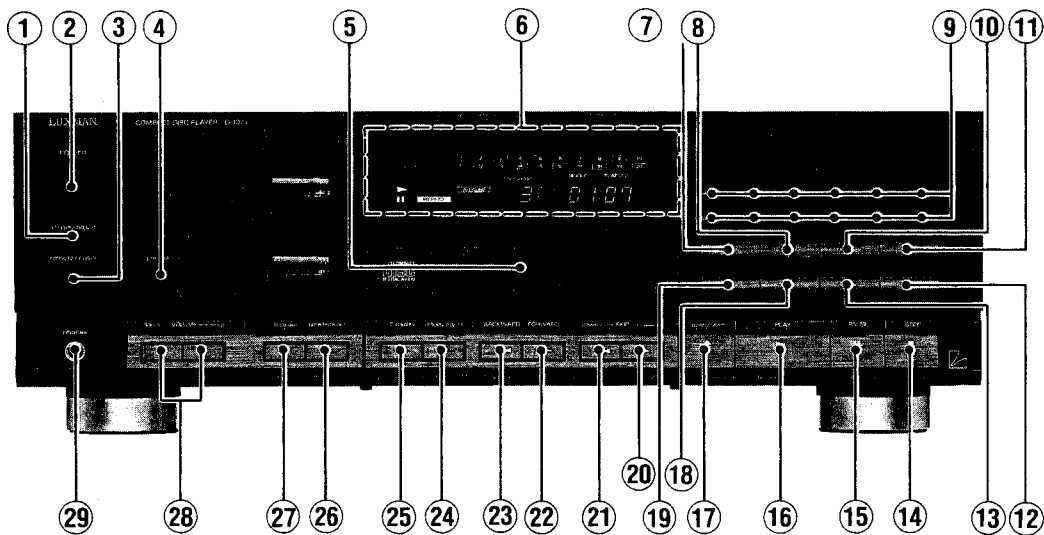
System	Optical (Compact Disc System)
Quantizing Bit Number	16 Bit Linear System
Channels	2 Channels, Stereo
Pick-up	Semiconductor Laser Pick-up
Output Voltage	2.1 V $\pm$ 1 dB
Frequency Response	20 Hz~20 kHz $\pm$ 2.5 dB
T.H.D. (1 kHz)	0.12%
S/N Ratio	95 dB
Dynamic Range	85 dB
Separation (1 kHz)	83 dB
Head-phone Output Voltage (1 kHz, 0 dB/8 ohm)	260 mV $\pm$ 1 dB
Power Supply	AC100 V, 50/60 Hz (JA Model Only) AC120/220/240 V, 50 Hz (AD Model Only)
Power Consumption	28 W
Semiconductors	20 IC's, 25 Transistors, 44 Diodes, 2 Zener Diodes, 2 Vacuum Tubes (JA Model Only) 20 IC's, 25 Transistors, 48 Diodes, 2 Zener Diodes, 2 Vacuum Tubes (AD Model Only)
Dimension (W×H×D)	469×147×342 mm (JA Model Only) 438×147×342 mm (AD Model Only)
Weight	12.7 kg (JA Model Only) 11.7 kg (AD Model Only)

< COMPACT DISC >

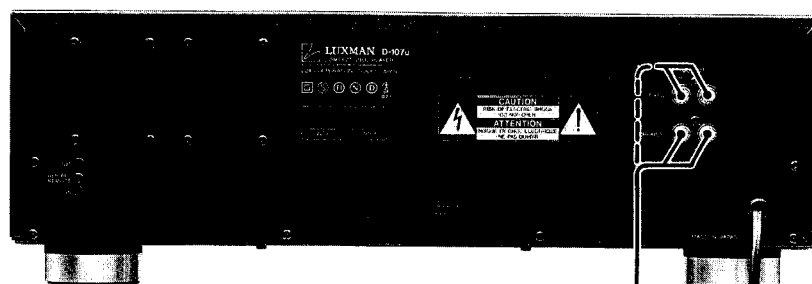
Track Pitch	1.6 μ m
Modulation Frequency	44.1 MHz
Transfer Rate	4.3218 MBit/sec.
Dimension	80 or 120×1.2 mm

D-107u

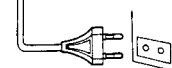
Reference Illustrations



- Batteries: (Size AA) × 2
- 2 Mikrozellen (Größe AA)
- 2 piles (Dimension AA)
- 2 pilas (tamaño AA)

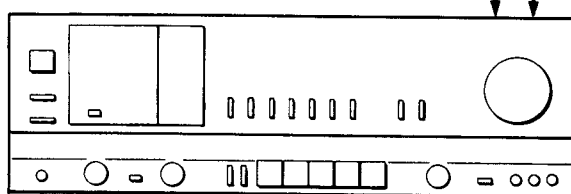


- to CD input jacks
- an die CD-Eingänge
- aux prises d'entrée CD
- a las tomas de entrada para CD

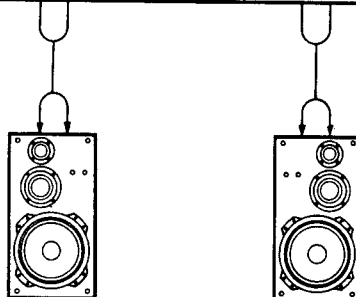


- AC Line
- Netz
- Cordon secteur
- Alimentación de red de CA

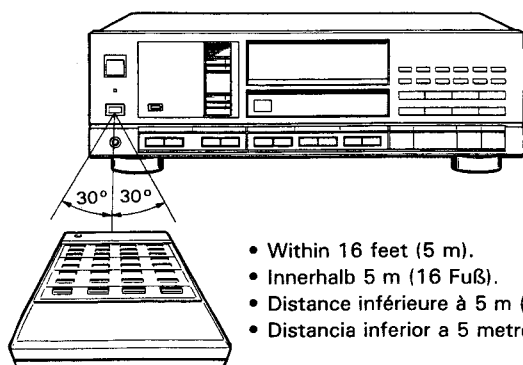
- Amplifier
- Verstärker
- Amplificateur
- Amplificador



- Japanese Model
- Japanisch-Modell
- Modèle japonais
- Modelo japonés

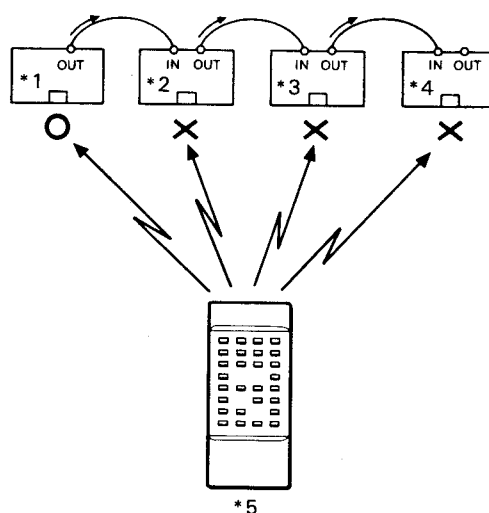


- Speaker System
- Lautsprecher
- Haut-parleurs
- Sistema de altavoces



- Within 16 feet (5 m).
- Innerhalb 5 m (16 Fuß).
- Distance inférieure à 5 m (16 pieds).
- Distancia inferior a 5 metros (16 pies).

Signals/Signale/Signaux/Señales



Controls, Switches, Jacks & Terminals

FRONT PANEL

1. "display adjust" indicator

This indicator lights up when the brightness of the display is set with the "display adjust" button.

2. POWER button

Use this button to turn the power on or off.
The sound is output from the OUTPUT jacks when the vacuum tube becomes warm by turning the power on.

3. "remote sensor"

Receives the signal from the RD-107u remote control unit.

4. "pre-heating" button

Use this button to preheat the vacuum tube heater.
When this button is depressed, the vacuum tube is preheated even if the power is turned off. Therefore, the sound is output from the OUTPUT jacks only 10 seconds after the power has been turned on.

5. Disc tray

Insert a compact disc on the disc tray. The disc tray can be opened or closed by pressing the "open/close" button. Align the compact disc with the groove.

NOTE: To use 8 cm (3 inch) single CD's, place them on the inner circular grooved area marked "8 cm disc" on the tray.

6. Display

This display indicates the preset operation mode, elapsed or remaining time, and on or off condition of the supplied functions.

7. "program" button

Use this button to set the unit to the program mode.
During the program mode, "PROGRAM" is indicated on the display and the tracks selected with the number buttons are programmed.

8. "clear" button

Use this button to cancel the programmed tracks.

NOTE: This button works only in the stop mode.

9. Number buttons (0 to 10 and +10)

Use this button to perform programming of tracks, direct access, time setting for edit or time-fade-out.

10. "M-check" (memory check) button

Use this button to check the tracks or the order of the program.

This button works only in the stop mode. Also, this button is used to call up the track to be cleared.

11. "edit" button

Use this button to automatically edit the tracks on the condition that the tape length is sufficient.

Press this button, and the EDIT indicator blinks.

While it is blinking, set the length of one side of the tape with the number buttons. The tracks which can be played within the tape length of both sides are automatically edited.

12. "random" button

Use this button to play the tracks selected at random.

During the random play, the RANDOM indicator is turned on.

13. "A-scan" (auto scan) button

Use this button to play the first 10 seconds of the track one after another. The A-SCAN indicator is turned on during automatic scanning.

14. STOP button (■)

Use this button to stop playing. Pressing this button during play cancels the program and edit modes.

15. PAUSE button (||)

Use this button to stop playing momentarily. The || indicator is turned on during pause mode.

16. PLAY button (▶)

Use this button to start playing. The ▶ indicator is turned on during play mode.

17. "open/close" button (⬆)

Use this button to open or close the disc tray. When the tray is closed with a inserted disc, the DISC IN indicator is turned on. When the disc tray is opened, the all preset functions except the display adjust function are released.

18. "A-pause" (auto pause) button

Use this button to stop playing momentarily at the end of each track. The A-PAUSE indicator is turned on when this function is activated.

19. "repeat" button

Use this button to repeat play, program play, random play, edit play or auto scan. The REPEAT indicator is turned on during repeat mode.

20. SKIP UP button (▶▶)

Use this button to skip tracks in forward direction.

21. SKIP DOWN button (◀◀)

Use this button to skip tracks in backward direction.

22. FORWARD button (▶▶)

Use this button for fast-forwarding. The tracks are fast-forwarded while this button is pressed.

23. BACKWARD button (◀◀)

Use this button for fast-backwarding. The tracks are fast-backwarded while this button is pressed.

24. DISPLAY ADJUST button

Use this button for adjust the display brightness. Four steps of brightness and turning-off are selectable. During adjusting, the "display adjust" indicator blinks.

25. "T-display" button

Each push of this button selects one of 4 disc timing displays as follows:

- SINGLE ELAPSED: To indicate the elapsed play time of a track
- TOTAL ELAPSED: To indicate the elapsed play time of the whole disc
- SINGLE REMAIN: To indicate the remaining play time of a track
- TOTAL REMAIN: To indicate the remaining play time of the whole disc

26. TIME FADE-OUT button

Use this button to fade-out the volume from the VARIABLE OUTPUT or "phones" jacks at the time preset with the number buttons. When the fade-out operation is completed, the unit is set to pause mode and the volume automatically increases to the original level.

27. FADE-OUT button

Use this button to fade-out the volume from the VARIABLE OUTPUT jacks. When the fade-out operation is completed, the unit is set to pause mode and the volume automatically increases to the original level.

28. VOLUME "up/down" buttons (◻ ◻)

Use these buttons to adjust the volume output from the VARIABLE OUTPUT or "phones" jacks. During volume adjustment, the output level (–00 dB to –70 dB, --- dB) is indicated on the display. Normally set it to –00 dB and adjust it if necessary.

29. "phones" jack

For connecting the stereo phone plug of head-phones. The volume can be controlled with the VOLUME buttons. Also fade-out and time fade-out can be activated.

REAR PANEL**30. SERIAL REMOTE IN/OUT jacks**

Connect this jack with the optional remote control unit to perform system remote control.

NOTE: Turn the power off before connecting these jacks.

31. VARIABLE OUTPUT R/L jacks

For connection to the CD inputs of any amplifier. The output level from these jacks can be controlled with the VOLUME button. Also, fade-out and time fade-out can be activated.

32. FIXED OUTPUT R/L jacks

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

33. Power cord

Insert the AC plug of the D-107u into any wall outlet.

Connection Guidelines

BEFORE MAKING CONNECTIONS

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

CONNECTION OF THE OUTPUT JACKS

■ Connect either VARIABLE or FIXED OUTPUT jacks to the CD input jacks of the amplifier with the supplied phono plug cord.

NOTE: To adjust the output level or activate fade-out or time fade-out, connect the VARIABLE jacks.

In addition, audio jacks on Luxman equipment, including the D-107u, have red centers for right channel and white for left channel.

When making connections, follow the connection diagram (See page 5.), referring also to the descriptions for items 30 through 33 on page 7.

CONNECTION OF THE SERIAL REMOTE IN/OUT JACKS

• "Daisy Chain" Serial Connections (See page 5).

O: Remote Operation Possible

X: Remote Operation Not possible

*1: Remote Controller (F-105, U-100, etc.)

*2: D-107u

*3: Tape Deck (Future Product)

*4: Tuner

*5: RF-105, etc.

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

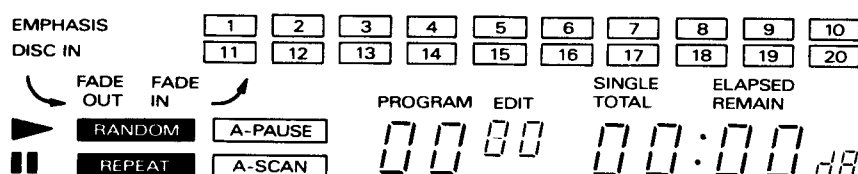
NOTE: Turn the power off before connecting these jacks.

CONNECTION OF THE AC POWER CORD

Insert the AC plug of the D-107u into any wall outlet.

CAUTION: NO RELATION TO THE POWER BUTTON.
AN APPARATUS FALLS INTO CURRENT-CARRYING CONDITION, AS SOON AS THE AC POWER CORD IS CONNECTED.

Operation Guidelines



INITIAL SET-UP

- Turn the power on.
- Play is delayed until the vacuum tube becomes warm (approximately 30 seconds when the preheating is off, or approximately 10 seconds when it is on).
- Press the "open/close" button and set a compact disc on the disc tray, label side up.

NOTE: To use 8 cm (3 inch) single CD's, place them on the inner circular grooved area marked "8 cm disc" on the tray.

- Press the "open/close" button to close the disc tray.
- If one of the ►, ||, number or "A-scan" buttons is pressed when the disc tray is open, the disc tray is closed without pressing the "open/close" button and the unit performs the operation of the button pressed.
- When the compact disc is inserted, the DISC IN, track number and total play time of the disc are indicated on the display.
- Set the volume control of the amplifier to minimum and adjust it after play has started.

PLAY

- After the compact disc is loaded, press the PLAY button.
- The ► indicator is turned on and play starts from the first track.
- Play stops with completion of the last track, when no REPEAT indicator is turned on.

PAUSE

- Press the PAUSE button.
- The || indicator is turned on and play pauses when the PAUSE button is pressed.
- To resume play, press the PAUSE or PLAY button. The pause mode is cancelled and play is resumed from the previous position.

STOP

- Press the STOP button.

NOTE: Pressing of the STOP button during stop mode cancels the program or edit mode.

TO SKIP FORWARD OR BACKWARD

- To skip forward:
Each pressing of the SKIP UP button skips tracks in forward direction one by one. Keep the button pressed to skip all tracks after the one indicated on the display. Keep the FORWARD button pressed for fastforwarding.
- To skip backward:
Pressing of the SKIP DOWN button during play repeats the current track from the beginning.
Each pressing of this button between tracks skips tracks in backward direction one by one. Keep the button pressed to skip all tracks before the one indicated on the display. Keep the BACKWARD button pressed for fastbackwarding.

DIRECT ACCESS

Play can be started from the selected track with the number buttons.

- Select the desired track number with the number buttons during stop or play mode.
- If the track is selected during pause mode, the unit is set to pause mode at the beginning of the selected track.
- The direct access can not be activated in program, random play, edit and time fade-out modes.
- The selected track is called up and played.

[To select a track]

For track number 1 to 10, press the number buttons of the track number. For track number 11 or higher, first press +10 for the 10 unit and 0 to 10 for units from 1 to 10.

- If one of the ►, II, ◀◀ or ▶▶ buttons is pressed after selecting the 10 unit with the +10 button, the operation button functions in the same way as when the 0 button is pressed.
- Only track numbers existing on the compact disc can be selected.

NOTE: Direct access will be cancelled if a number button other than "+10", the Play button, or the Pause button is not pressed within 4 seconds after pressing "+10".

The "+10" button will not operate with discs containing 10 or fewer tracks.

Example: To directly access the 17th track

- Press +10 and 7 in this order.

Example: To directly access the 20th track

- Press +10 and 10, or +10 twice and 0 in this order.

RANDOM PLAY

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

- Press the RANDOM button. The RANDOM indicator is turned on.

NOTE: When the PROGRAM or EDIT indicator is lit or blinking, the program or edit mode is released by pressing the RANDOM button.

- Press the PLAY button
- Press the RANDOM button during play, and random play is started.

NOTE: During the random play mode, undesired tracks that you do not want included in the random selection, can be individually deleted. Simply press the number button of the track(s) you wish to delete. The deleted track number(s) will disappear from the upper part of the display.

- The unit stops with completion of the last track, when REPEAT indicator is not turned on.

AUTO SCAN

The first 10 seconds of each track on the compact disc can be played in numerical order.

- Press the "A-scan" button. The A-SCAN indicator is turned on and auto scanning is started.

- To cancel auto scan mode, press one of the ◀◀, ▶▶, ◀◀, ▶▶, II, ■ or number buttons, or the "A-scan" button again.

- The unit stops with completion of the last track, when no REPEAT indicator is turned on.

- Auto scan can be activated with random or program play.

AUTO PAUSE

The unit can be automatically set to enter the pause mode at the end of any currently playing track.

- Press the "A-pause" button. The A-PAUSE indicator is turned on.

- While the A-PAUSE indicator is turned on, pressing one of the ◀◀, ▶▶ or number buttons sets the unit to pause mode at the beginning of the track.

- To cancel auto pause mode, press the "A-pause" button. The A-PAUSE indicator is turned off.

PROGRAM PLAY

Only desired tracks can be selected and played.

- Press the "program" button in stop mode. The PROGRAM indicator is turned on. Select the desired tracks with the number buttons in order to program.

NOTE: When the RANDOM or EDIT indicator is lit or blinking, pressing the "program" button cancels the random or edit mode.

- A total of 32 tracks can be programmed. If you try to program more tracks, the *FULL* indicator is turned on for about 4 seconds and no more programs are accepted.

- When the ► indicator is blinking, press the PLAY button and program play is started.

- The unit stops with completion of the last track, when no REPEAT indicator is turned on.

NOTE: If the Repeat button has been pressed, REPEAT indicator will be displayed and the frames around the track numbers will reappear when the sequence repeats. Only those tracks programmed will be repeated.

TO CHECK THE PROGRAMS

The programmed track numbers and their order can be checked.

- Stop program play and press the "M-check" button.

- The track numbers and their order are indicated by each pressing of the "M-check" button.

NOTE: While the program play is stopped, keep the "M-check" button pressed. The auto memory check mode is activated, and the track numbers and their order are shown automatically. When all tracks in the program is checked, auto memory check mode is released.

TO CLEAR THE PROGRAMS

The tracks in the program can be erased.

- Stop program play and press the "clear" button. Each pressing of the "clear" button clears one track at a time from the last programmed track.
- To clear a track, call up and indicate the track number with the "M-check" button and press the "clear" button.
- To clear all tracks, press the STOP button twice. The PROGRAM indicator is turned off.

REPEAT

Play, program play, random play and auto scan can be repeated.

- Press the "repeat" button. The REPEAT indicator is turned on.
- To cancel the repeat function, press the "repeat" button again. The REPEAT indicator is turned off.

TO CHANGE THE TIME INDICATION

The elapsed or remaining time can be displayed.

- Press the "T-display" button to select the time read-out desired.

SINGLE ELAPSED: To indicate the elapsed play time of a track

TOTAL ELAPSED: To indicate the elapsed play time of the whole disc

SINGLE REMAIN: To indicate the remaining play time of a track

TOTAL REMAIN: To indicate the remaining play time of the whole disc

- During random play, TOTAL ELAPSED and TOTAL REMAIN times can not be indicated and "-- --" appears. This is not a malfunction.
- When the VOLUME button is pressed, the time read-out is turned off and the volume level is indicated.
- During program operation, the total programmed play time is displayed.

EDIT PLAY

This feature is specifically intended to select and divide CD tracks, on the basis of timing, to fit the recording time on the A and B sides of any given tape cassette type. For instance, the EDIT function would be set to 30 minutes to fit both sides of a C-60 cassette. It divides a group of whole tracks, as closely as is possible, into two 30 minute sections. When the first side is recorded, the D-107u automatically stops so that the tape can be turned over in the cassette recorder. The 2nd half of the grouped tracks are then selected and the system restarted to record the 2nd side. Proceed as follows.

- Set the unit to stop mode and press the "edit" button. The EDIT indicator blinks showing that the edit function is ready.

NOTE: When the RANDOM or PROGRAM indicator is turned on, pressing the "edit" button cancels the random or program mode.

- Set the editing time of one side of the tape with the number buttons. (If it is a C-90, set the time to 45 minutes.)

NOTE: By setting the time of only one side, the tracks are edited for both sides.

- When the edit time is set, the tracks to be recorded on both sides of the tape are automatically programmed. The EDIT indicator lights up.

NOTE: Some tracks may be excluded or some part of the tape may be blank due to difference between the track length and edit time.

- To check the edited content, press the "edit" button for each side. The actual tracks selected, along with their total playing (recording) time, will be shown in the display.
- Play can be started from the track indicated with the "edit" button.

- You are now ready to begin recording. With the set of tracks selected for side A, press the Play button and at the same time place the cassette deck in record mode on side A.

When side A finishes, the D-107u will go into STOP mode.

- Now press the Edit button to select the 2nd set of tracks intended for side B. Flip the cassette over in the cassette deck and initiate the play and record process as before.

[How to set the edit time]

When the edit time is within 10 minutes, press 1 to 10 of the number button. When it is more than 10 minutes, first press +10 for the 10 unit and 0 to 10 for units from 1 to 10.

FADE-OUT

This feature works through the motor driven level control and provides a smooth, computer controlled, precision fade out action. It is specially useful when making tape recordings from CD's. It is much more professional than manual fades and can be initiated at any playback point on a musical selection. It is fed to the VARIABLE OUTPUT jacks on the rear panel, and to the "phones" jacks.

NOTE: The fade-out function does not work with the FIXED OUTPUT jacks.

- Press the FADE-OUT button during play.
- The  FADE OUT indicator blinks and the volume level will fade-out. When the volume level becomes minimum, the unit is set to pause mode.
- In pause mode, the FADE IN  indicator blinks and the volume level gradually increases to the original level.
- The time needed for fade-out depends on the volume level. The higher the volume level is set, the longer time it takes.

TIME FADE-OUT

The time preceding the actual fade out (for the VARIABLE OUTPUT jacks and the "phones" jacks) can also be set.

NOTE: The time fade-out function does not work with the FIXED OUTPUT jacks.

NOTE: Time fade-out does not function in random play mode, or when higher than 32nd track in the disc is programmed.

- Press the TIME FADE-OUT button.
- Set the fade-out time with the number buttons.

NOTE: Time fade-out function does not work, if the preset time is longer than total elapsed time or total programmed time.

- Press the PLAY button. The fade-out is activated a few seconds before the preset time. When fade-out is completed at the preset time, the unit is set to pause mode.

NOTE: To view the countdown time to the fade out point, set the T-Display to the "Total Remain" position.

- In pause mode, the FADE IN  indicator blinks and the volume level gradually increases to the original level.
- The time needed for fade-out depends on the volume level. The higher the volume is set, the longer time it takes.

[How to set the time]

To activate fade-out within 10 minutes, press 1 to 10 of the number buttons. To activate it after 10 minutes or more, first press the +10 for the 10 unit and 0 to 10 for units from 1 to 10.

VOLUME CONTROL

The volume level from the VARIABLE OUTPUT and "phones" jacks can be adjusted.

- Press the VOLUME "up" button [] to increase the volume (maximum -00 dB), or "down" [] to decrease it (minimum -70 dB, --- dB indicates that no sound is produced).
- Usually set the volume at maximum (-00 dB), and adjust it if necessary.

TIME PLAY

Play can be started at the desired time with the timer function.

- Connect the power plug of the unit to be timer activated to the AC outlet of the timer.
- Turn the power on and insert the compact disc.

NOTE: This unit keeps the memory of program, edit or random play for about 3 days, even if the power is turned off. Therefore, the preset program, edit or random play starts when the power is turned on. When no program, edit or random play is preset, the play starts from the first track of the compact disc.

- Set the start or stop time with the timer. Also, perform necessary operations on the units to be timer activated.
- Set the power buttons of the units to be timer activated to on-position.
- When the power is turned on with the timer and the vacuum tube becomes warm, activated unit is set to play mode.

REMOTE OPERATIONS

For reliable operation, use the hand-held remote within the basic dimensional area (See on page 5.). To operate, select and press the individual buttons in the same manner as that described for the front panel buttons, referring to page 6 and 7.

Care & Maintenance

BATTERY REPLACEMENT

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

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

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

PRECAUTIONS

Condensation may occur inside the set if it is brought into a warm room from the cold or if a cold room is heated quickly. If this happens, drops of water may form on the pick-up, scattering the laser beam and hampering operation.

The extent of condensation depends on various conditions, but if condensation should occur, remove the disc then turn on the power and wait at least one hour before using the unit.

PROPER CARE OF COMPACT DISC

Improper handling of your disc will shorten its life. Hold the disc so that you will not leave fingerprints on the surface of the disc.

When your disc is not in use, place it in the case and store it in a place away from the sun, high temperature, humidity, and dust. Should your disc require cleaning, use a clean soft cloth only. Do not use oil or chemically treated cloths.

CLEANING

The durable finish of the knobs and heavy aluminum front panel will last indefinitely with proper care and cleaning. Never use scouring pads, steel wool, scouring powders, or harsh chemical agents, such as lye solution. These will mar the finish. Clean with a soft, lintfree cloth or cotton swab slightly dampened with a mild solution of detergent and water.

REPACKING FOR SHIPMENT

Should it become necessary to ship your D-107u for any reason, use the original packing materials. If these are no longer available, be sure that adequate materials, at least equivalent to the original, are used.

REPAIRS

Only the most competent and qualified service technicians should be allowed to service the D-107u. The Luxman company and its factory-trained warranty station personnel have the knowledge and special equipment needed for repair and calibration of this precision instrument.

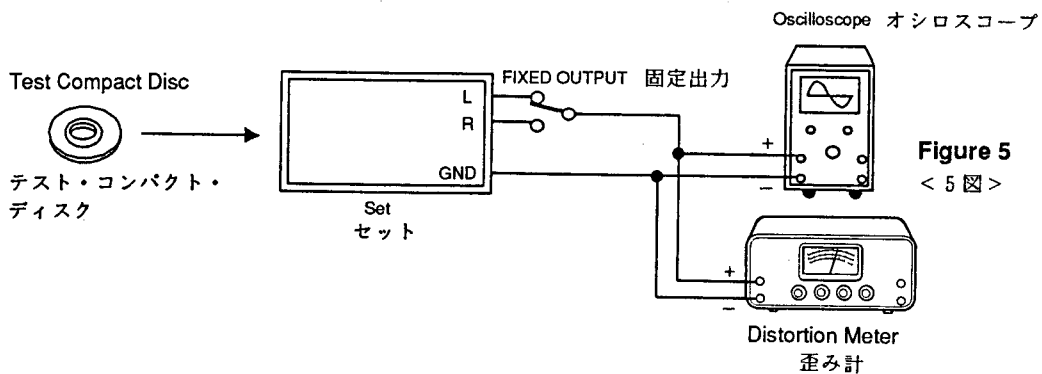
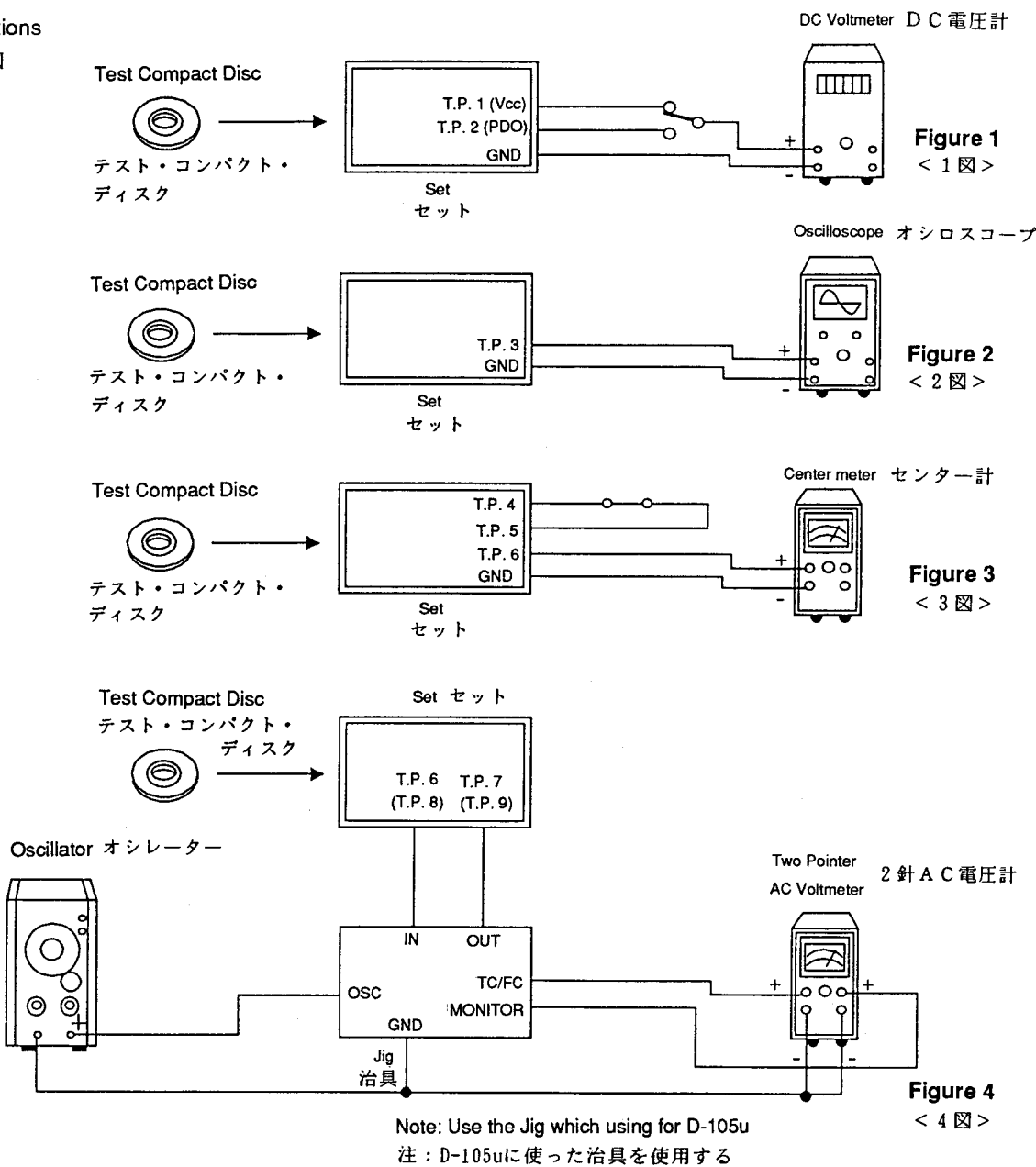
In the event of difficulty, call the Luxman Authorized Service Station nearest your home or business. In many cases, the dealer where you purchased your Luxman unit will be equipped to provide service.

Adjustment Procedures

1. Compact Disc Section

(1) Connections

(1) 接続図



(2) Control Settings

Power Switch ON
Play Switch ON
Others Switch OFF

(3) Test CD

Tracking Error Balance Adjustment SONY YEDS-18 (No7)
A-BEX TCD-782 (No8)
Level Linearity Adjustment A-BEX TCD 781 (No26)
Others SONY YEDS-18 (No2)
A-BEX TCD-782 (No2)

(4) Adjustment Procedures

Step	Description	Connections	Oscillator	Test Point	Adjustment
1	VCO Adjustment	Figure 1	—	T.P.1 T.P.2	Take measurement of the voltage at the T.P.1. Then adjust VR202 so that the output voltage at the T.P.2 becomes 1/2 ±10mV of the voltage at the T.P.1.
2	Focus Bias Adjustment	Figure 2	—	T.P.3	Adjust VR201 so that the T.P.3 (Eye pattern) signal is at its maximum, with a favorable Eye pattern as shown in Figure 6.
3	Tracking Error Balance Adjustment	Figure 3	—	T.P.4 T.P.5 T.P.6	After short circuiting between T.P.4 and T.P.5, turn VR204 fully counterclockwise. When the center meter is connected to the unit, the meter pointer will deflect between "a" and "b" as shown in Figure 7. Adjust VR203 until minimum deflection of the center meter shows "0". In this case, minimum deflection shows "0" stands for that "a". After the adjustment set VR204 to its center position.
4	Tracking Gain Adjustment	Figure 4	1kHz 100mV	T.P.6 T.P.7	Adjust VR204 so that both arms of the voltmeter come at the same position.
5	Focus Gain Adjustment	Figure 4	1kHz 100mV	T.P.8 T.P.9	Adjust VR205 so that both arms of the voltmeter come at the same position.
6	Level Linearity Adjustment	Figure 5	—	FIXOUT L(R)	Adjust the volume control (VR101) so that the output voltage at FIXOUT becomes 2V. (This point will be 0dB and used as the base.) Then adjust VR207 (VR208) so that the output voltage at FIXOUT becomes 70dB below the base and distortion becomes the minimum.

(2) スイッチ類のセット位置

電源スイッチ..... ON
プレイスイッチ..... ON
その他のスイッチ..... OFF

(3) テストCD

トラッキング・エラー・バランス調整..... SONY YEDS-18 (No7)
A-BEX TCD-782 (No8)
レベル直線性調整..... A-BEX TCD-781 (No26)
その他..... SONY YEDS-18 (No2)
A-BEX TCD-782 (No2)

(4) 調整方法

順序	調整項目	接続図	オシレーター	テストポイント	調整方法
1	VCO調整	1図	—	T.P.1 T.P.2	T.P.1の電圧を測定します。次にT.P.2の出力電圧がT.P.1の電圧の1/2±10mVになるようにVR202で調整します。
2	フォーカス バイアス調整	2図	—	T.P.3	T.P.3 (アイ・パターン) 信号が最大になるようにVR201で調整します。望ましいアイ・パターンは6図に示しています。
3	トラッキングエラー バランス調整	3図	—	T.P.4 T.P.5 T.P.6	T.P.4とT.P.5の間をショートした後、VR204を反時計方向にしばりきります。センター計を装置に接続したとき、メータの針は7図に示すように、"a"と"b"の間で歪みます。センター計の最小歪みが"0"を示すまでVR203で調整します。この手順では最小歪みが"0"を示すということは、"a"を表します。調整後、VR204を中央付近に戻します。
4	トラッキング ゲイン調整	4図	1kHz 100mV	T.P.6 T.P.7	電圧計の2つの針が重なるようにVR204で調整します。
5	フォーカス ゲイン調整	4図	1kHz 100mV	T.P.8 T.P.9	電圧計の2つの針が重なるようにVR205で調整します。
6	レベル直線性調整	5図	—	FIXOUT L(R)	FIXOUTの出力が2Vになる様ボリュームコントロール (VR101)で調整します。(この時0dBとする→基準) 次にFIXOUTの出力が基準に対し-70dBかつ歪率が最小になる様VR207 (VR208)を調整します。

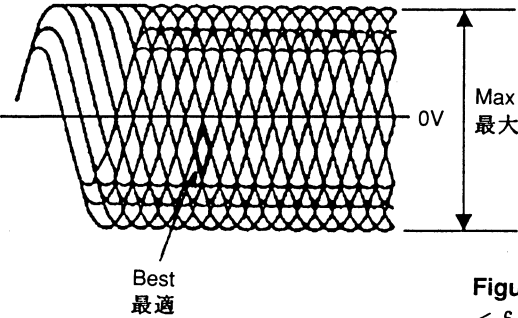


Figure 6
< 6 図 >

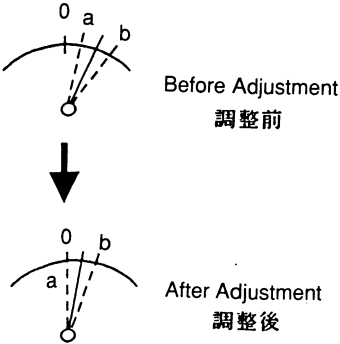
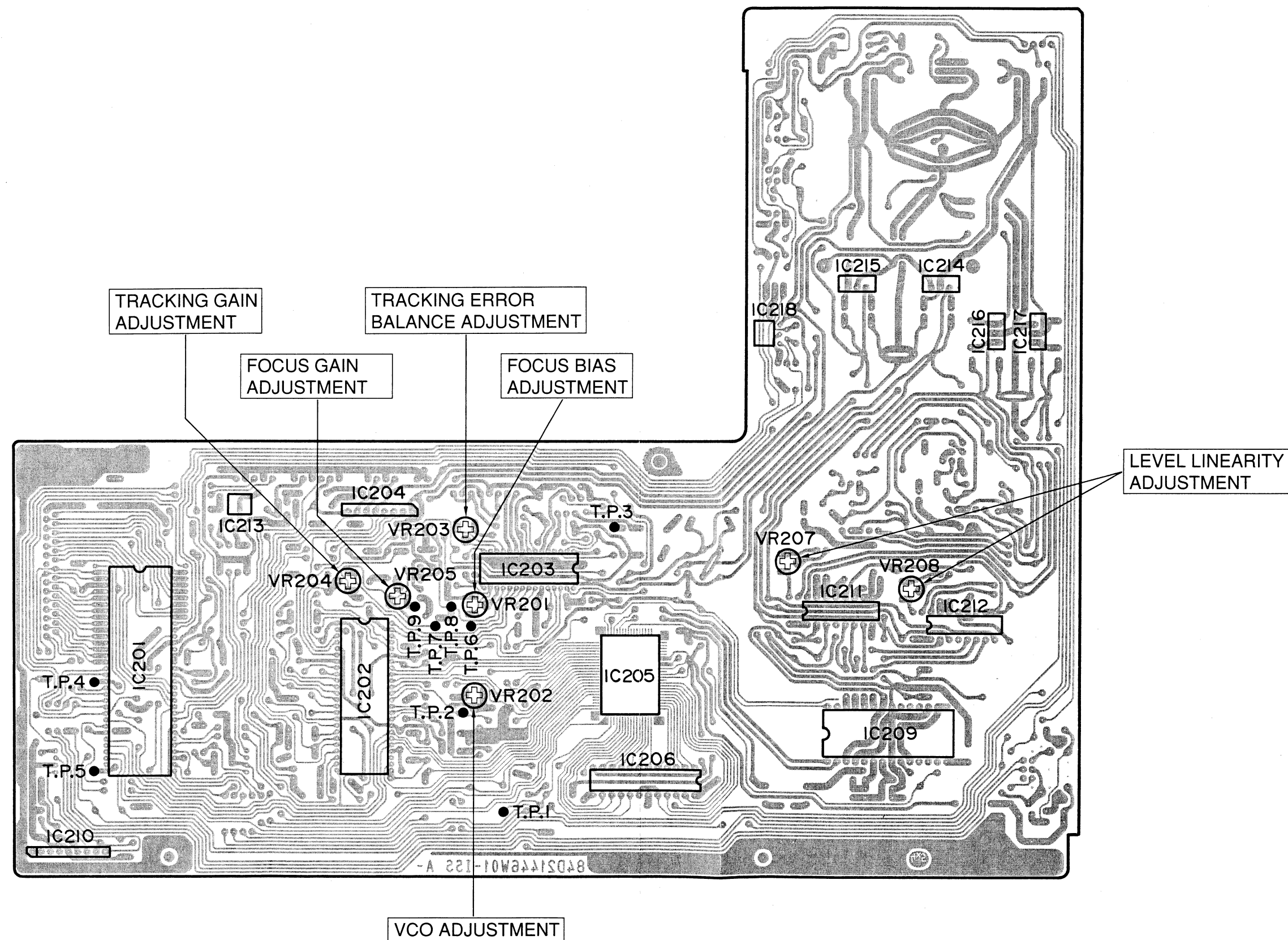
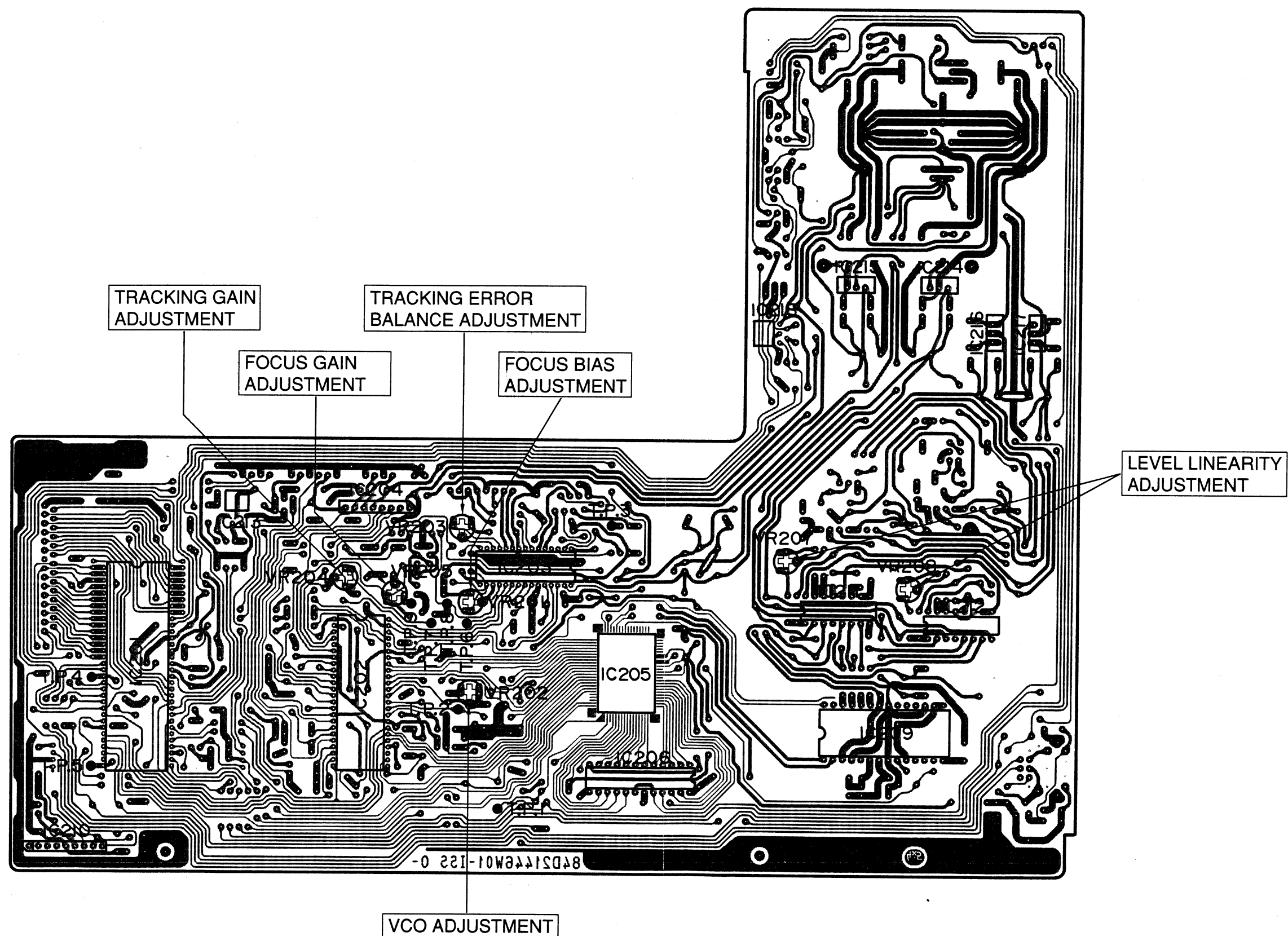


Figure 7
< 7 図 >

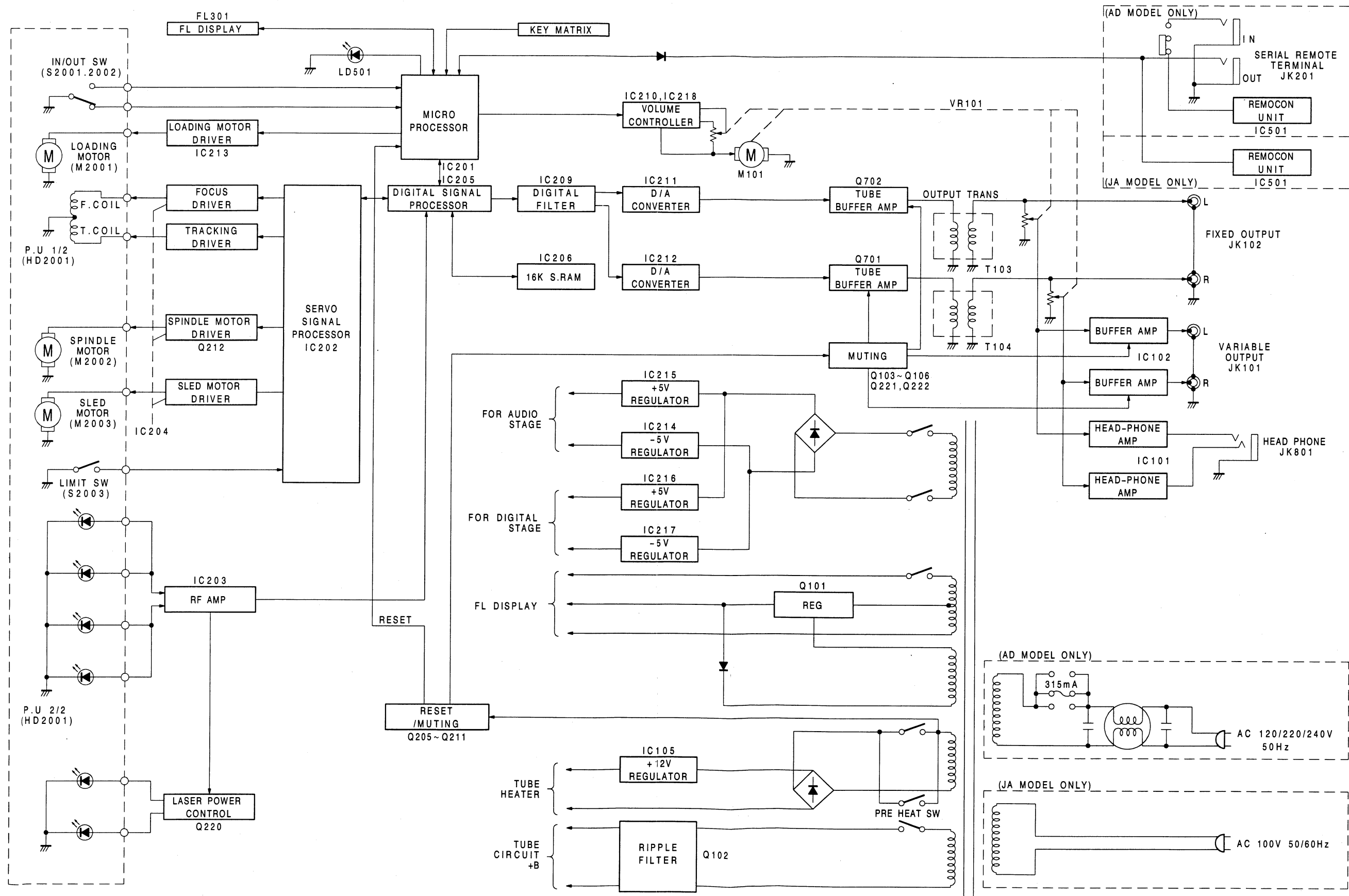
Adjustment Locations (AD)



Adjustment Locations (JA)

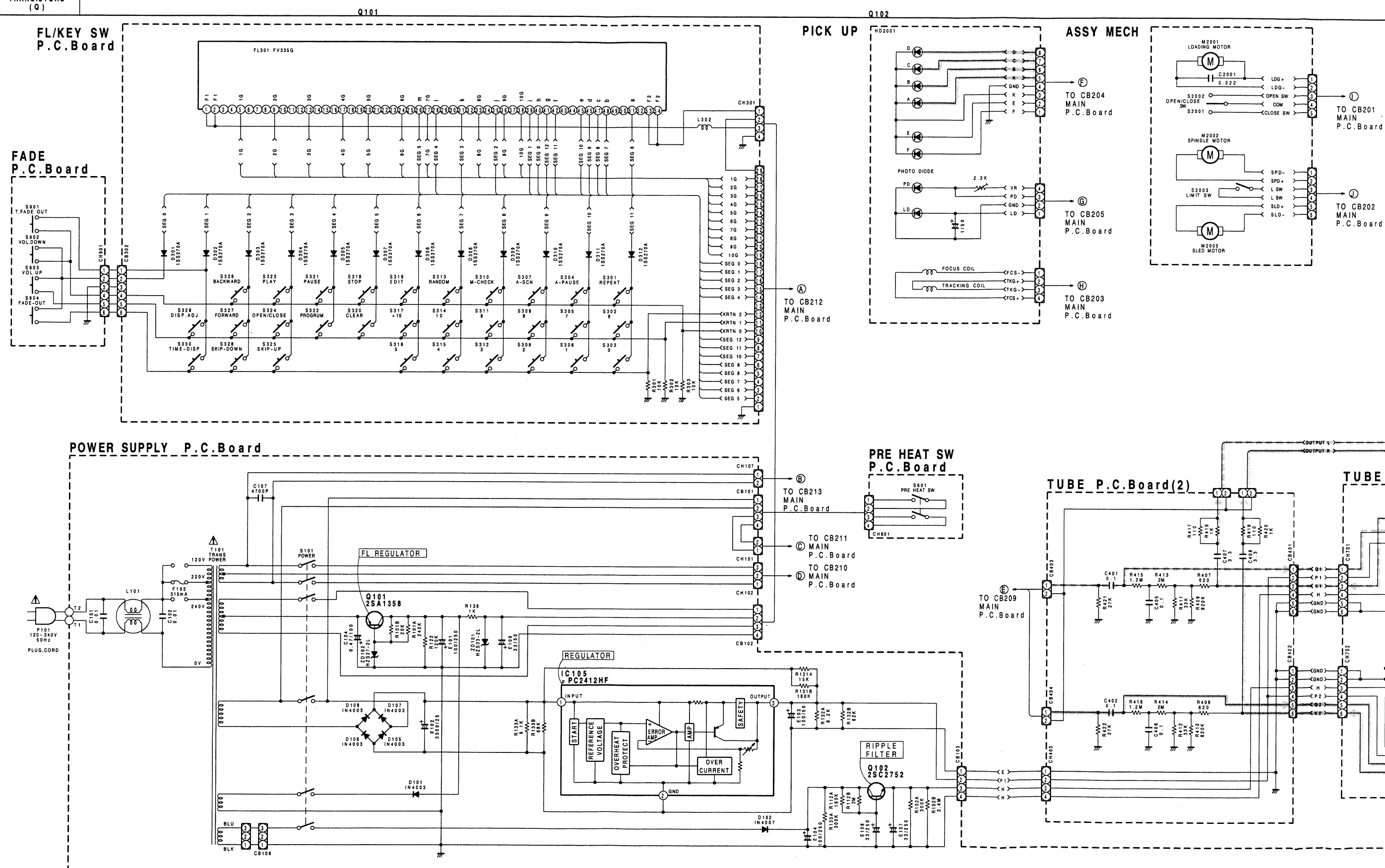


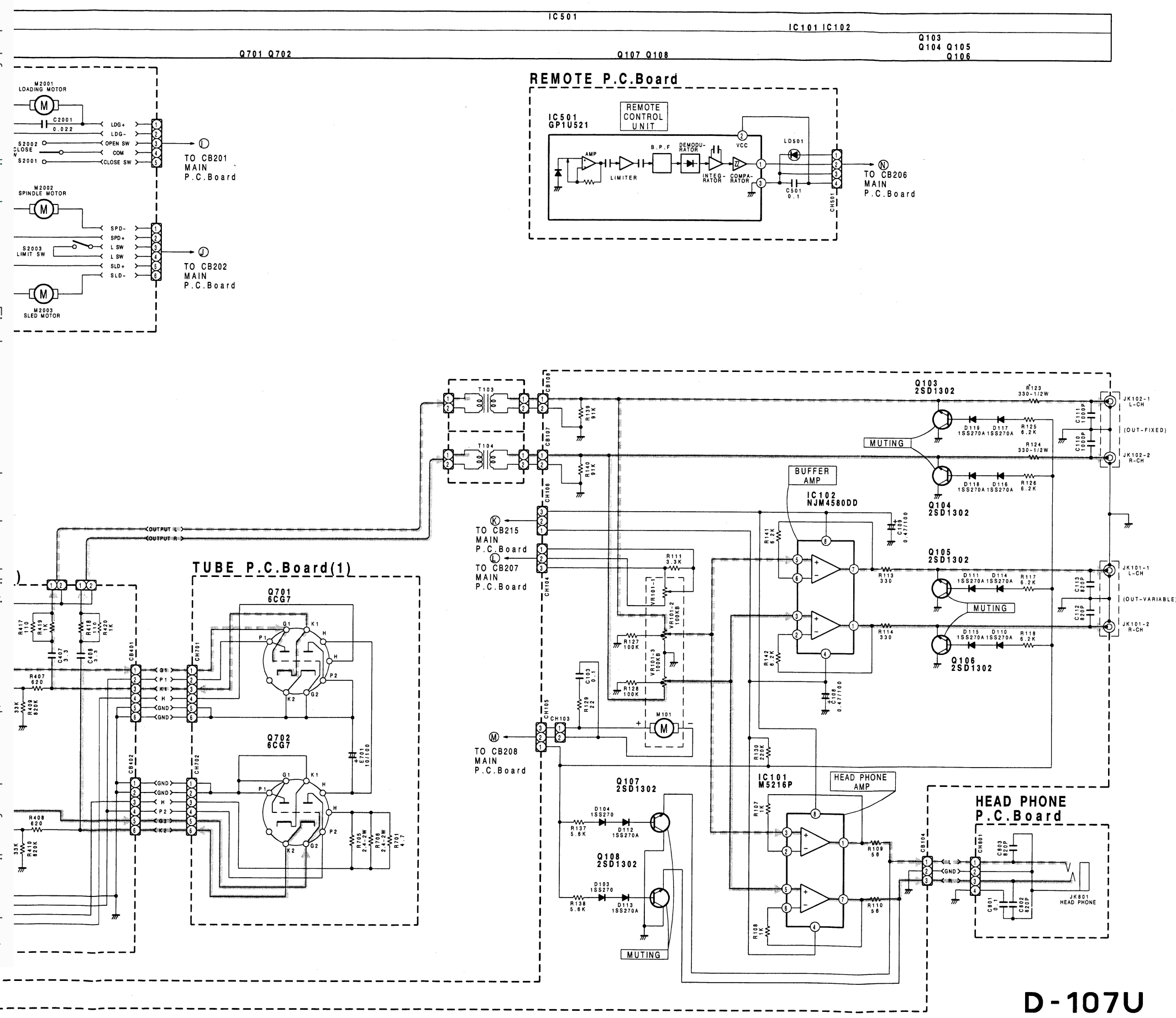
Block Diagram



Schematic Diagram (1/3) <AD model>

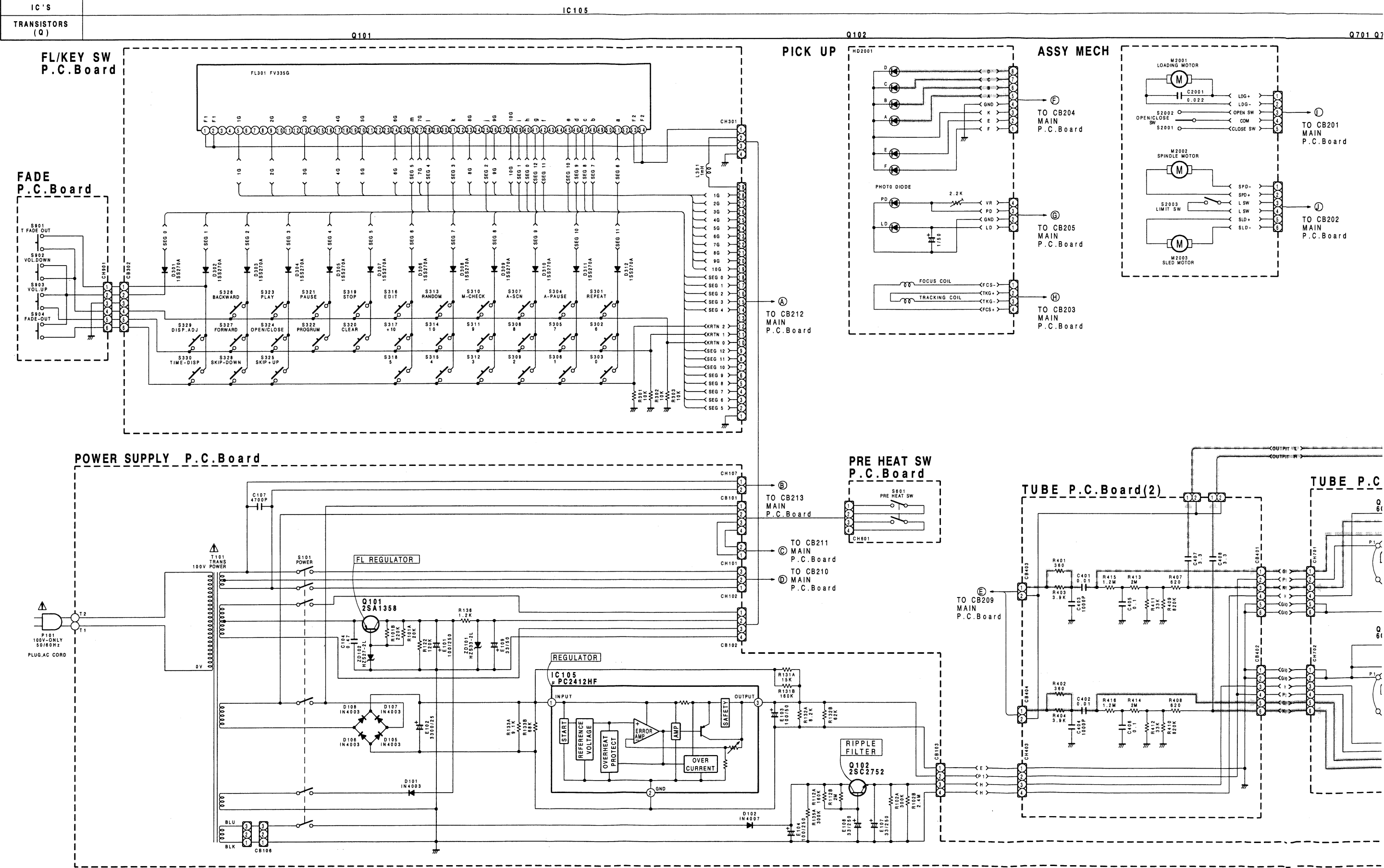
IC'S	IC105
TRANSISTORS (Q)	Q101

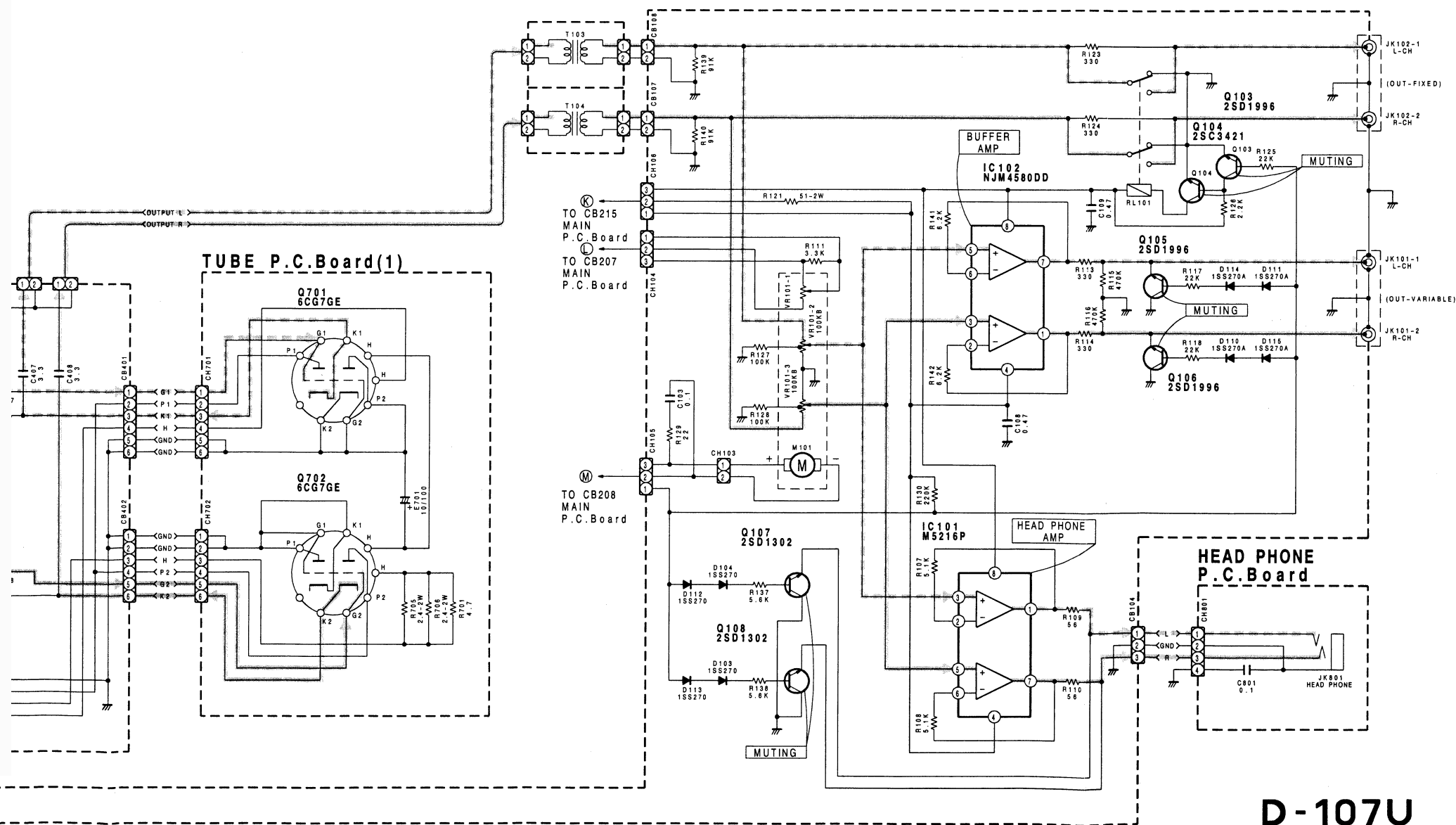
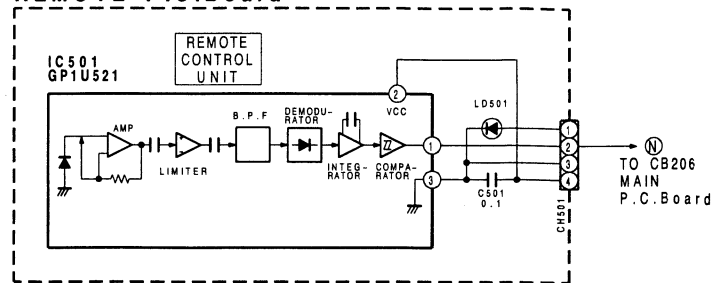




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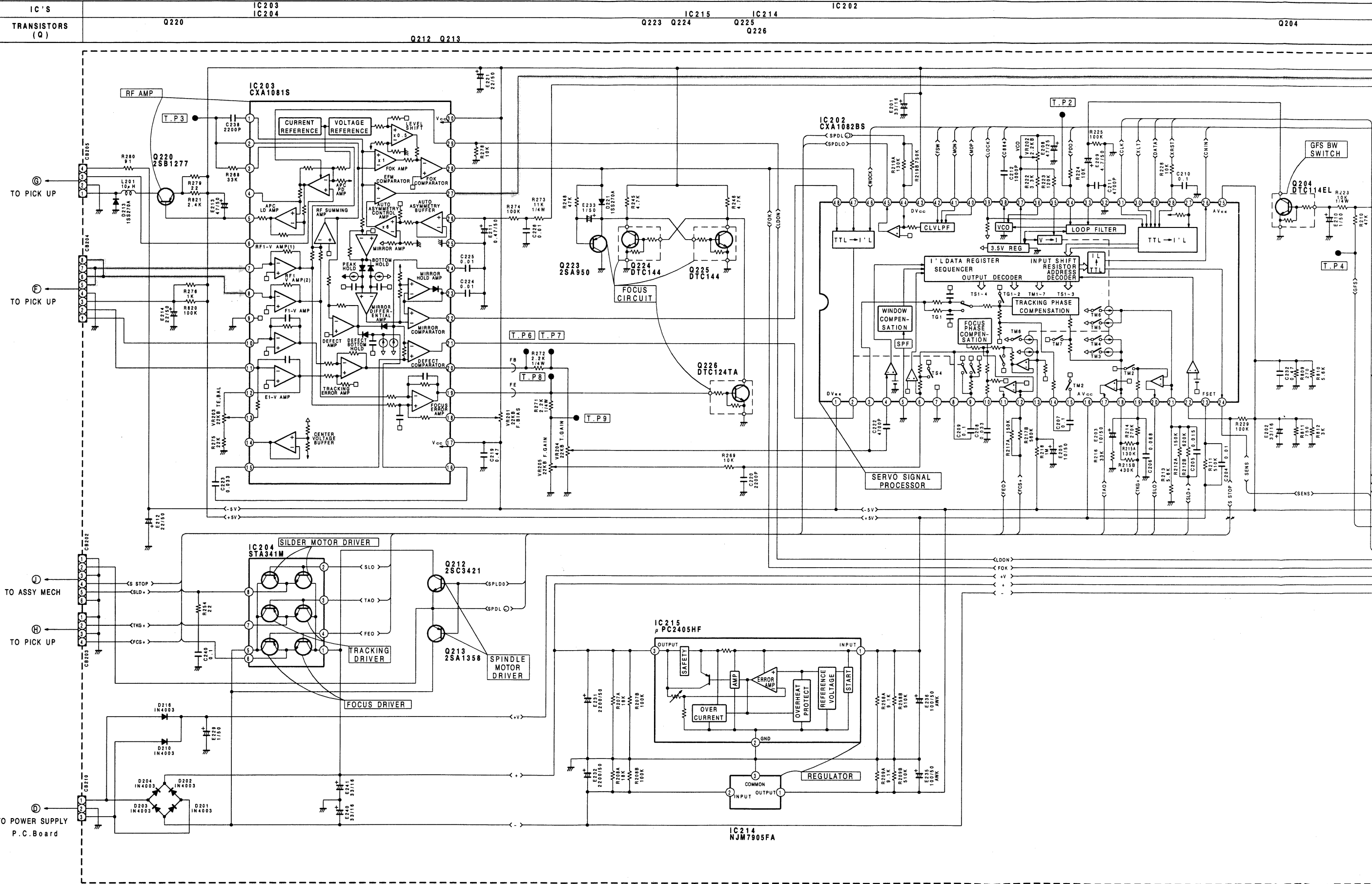
Schematic Diagram (1/3) <JA model>

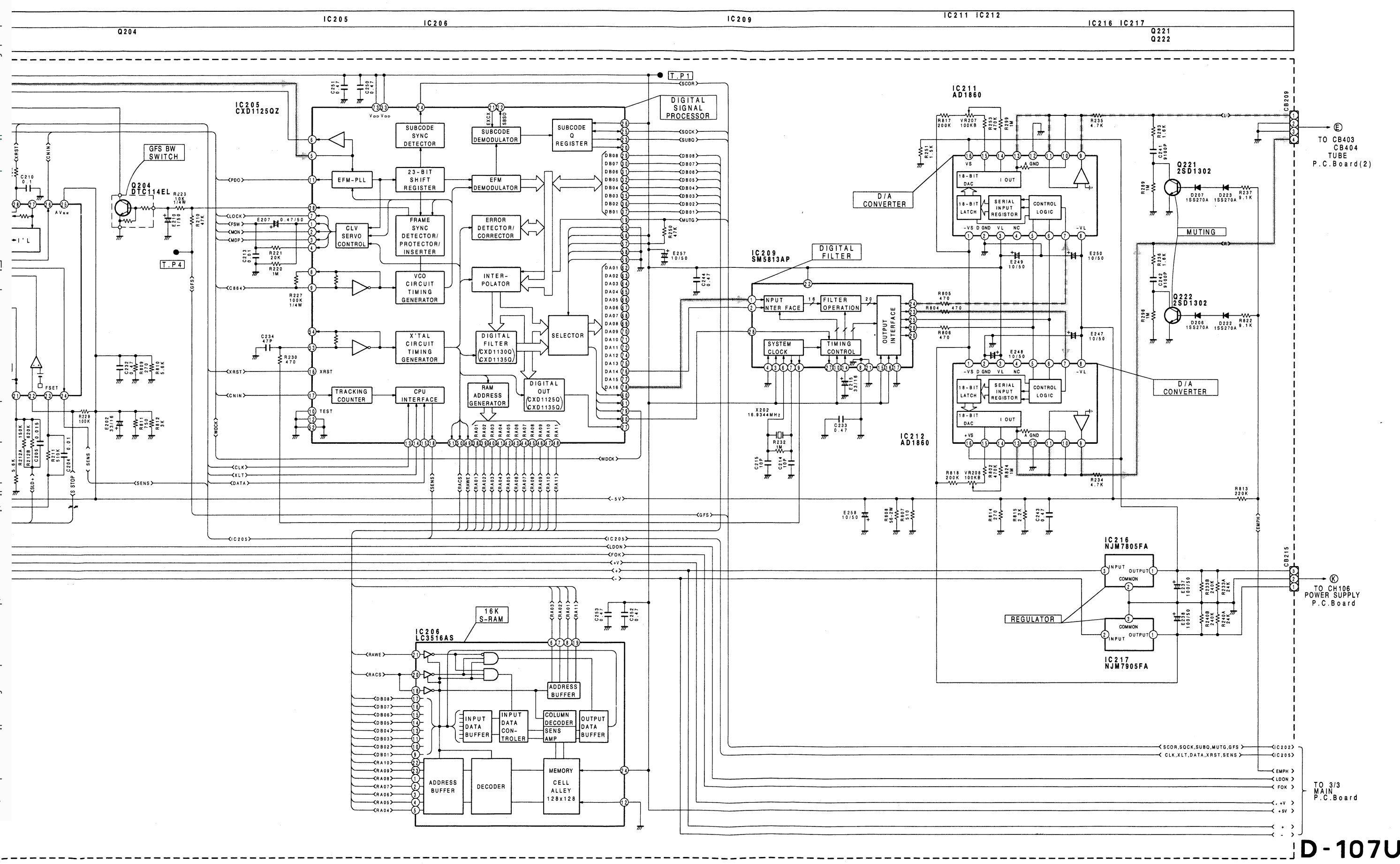




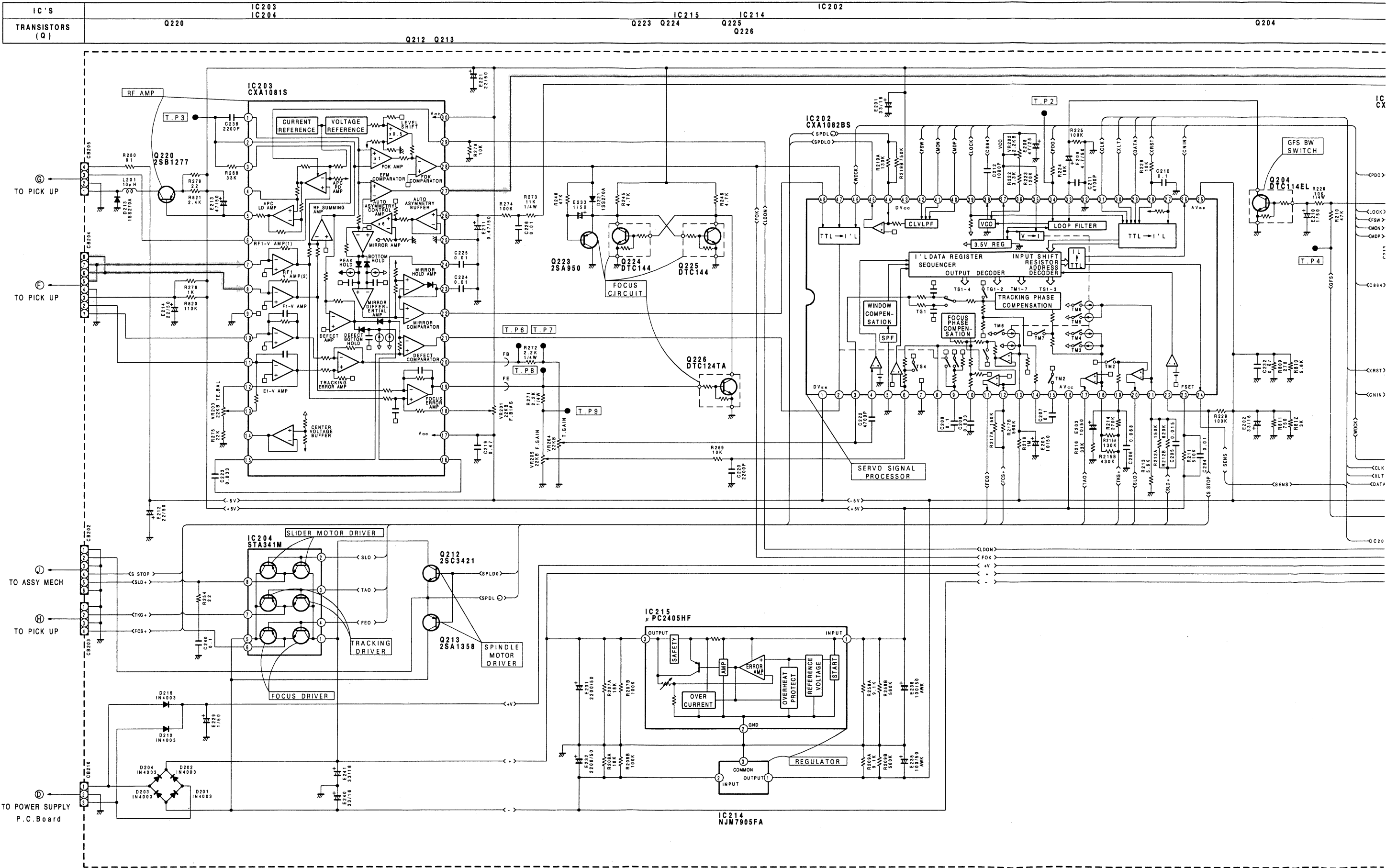
D-107U

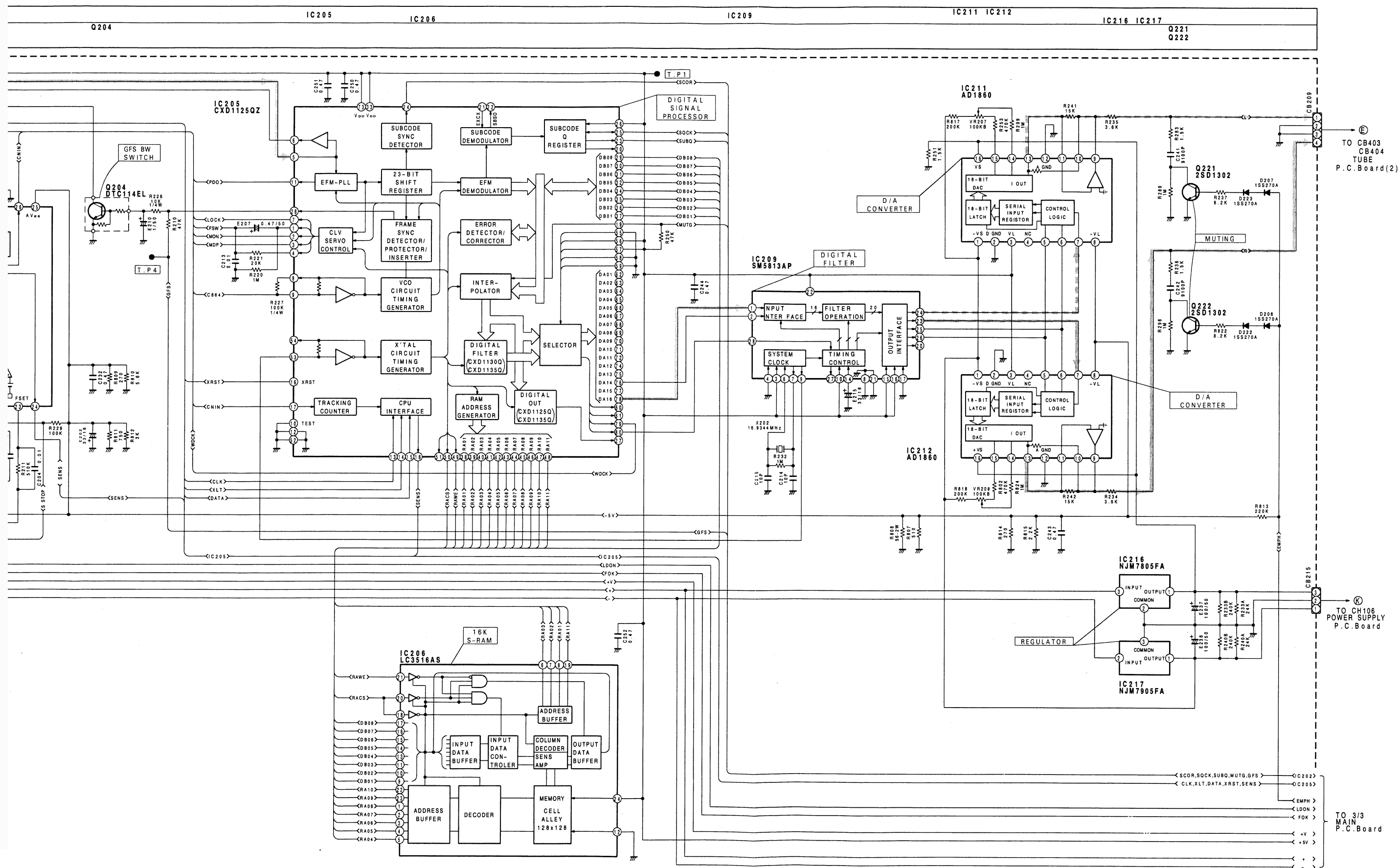
Schematic Diagram(2/3) <AD model>





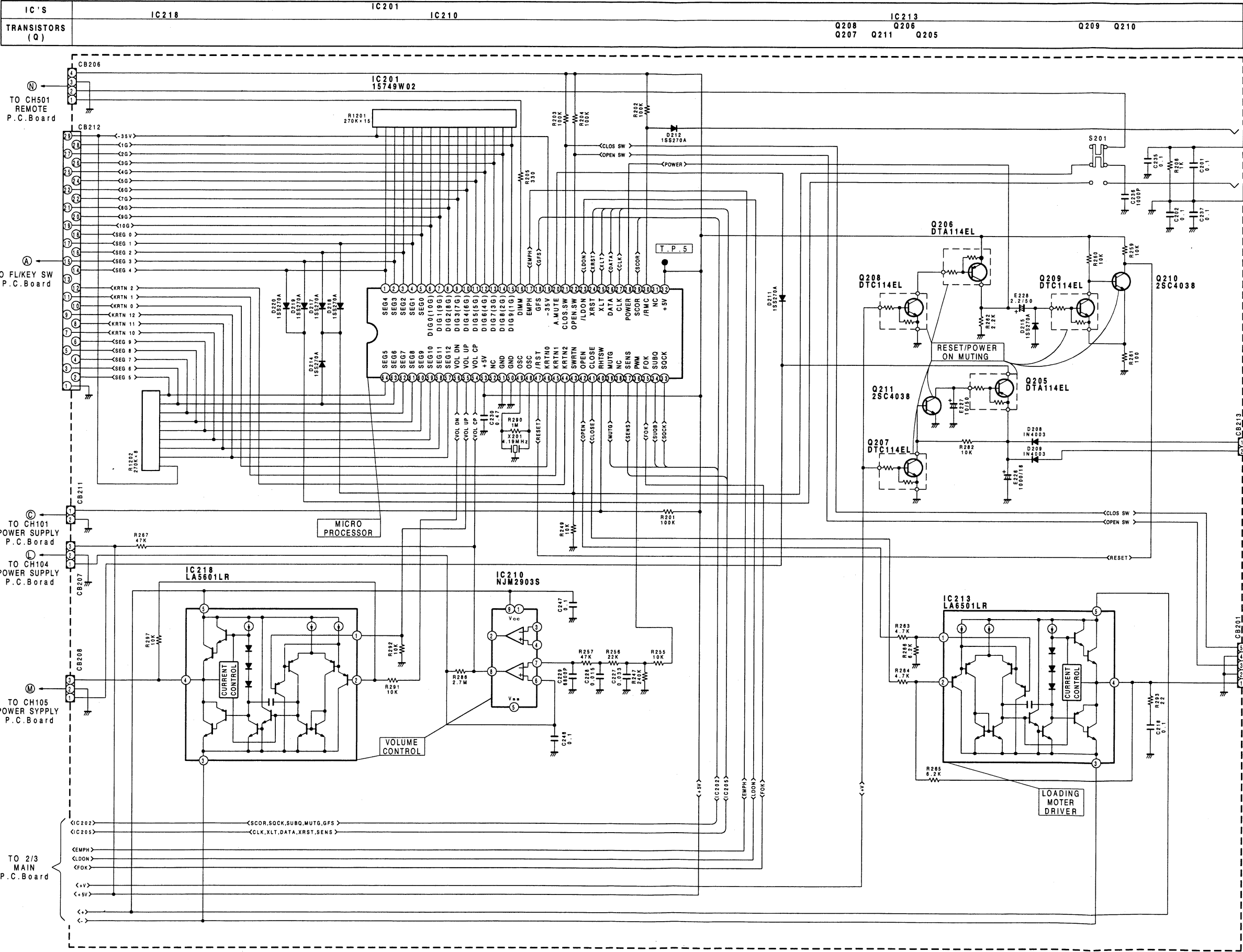
Schematic Diagram(2/3)<JA model>





D-107U

Schematic Diagram(3/3) <AD model>



NOTE

- 1. All resistance values are in ohms. K=
- 2. All capacitance values are in microfarads.

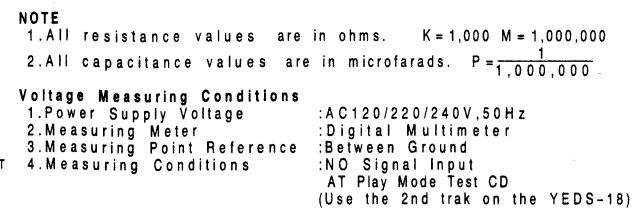
Voltage Measuring Conditions

- 1. Power Supply Voltage : AC120/220/240
 - 2. Measuring Meter : Digital Mult
 - 3. Measuring Point Reference : Between Grou
 - 4. Measuring Conditions : NO Signal In
- AT Play Mode (Use the 2nd ti

IC201	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

IC205	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

IC105	1	2	3
	1	2	3
	1	2	3



CAUTION: The  mark, the symbol numbers in the schematic diagram designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

IC 206	
1	2.5 V
2	2.5 V
3	2.4 V
4	2.4 V
5	2.4 V
6	2.4 V
7	2.4 V
8	2.4 V
9	1.9 V
10	1.9 V
11	1.9 V
12	0 V
13	1.9 V
14	1.9 V
15	1.9 V
16	1.9 V
17	2 V
18	2.6 V
19	3 V
20	2.6 V
21	4.3 V
22	2 V
23	2.8 V
24	4.9 V

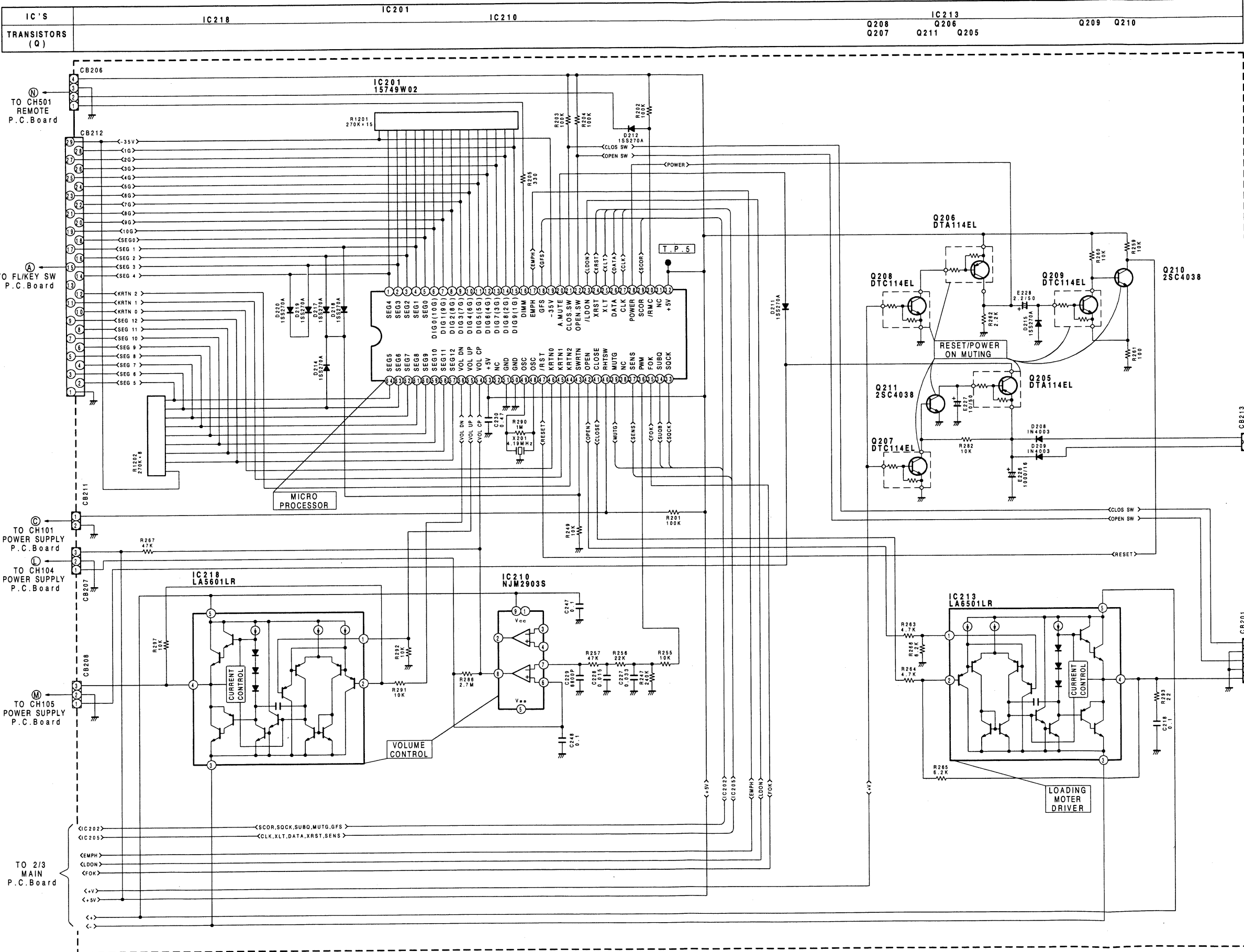
	IC101	IC102	IC210
1	0V	0V	0V
2	0V	0V	0V
3	0V	0V	-8V
4	-5V	-5V	0V
5	0V	0V	—
6	0V	0V	—
7	0V	0V	—
8	5V	5V	12V

	IC213	IC218
1	0~4.9V	0~4.9V
2	-4.9~4.9V	-4.9~4.9V
3	-12.8V	-12.8V
4	-4.9~4.9V	-4.9~4.9V
5	12V	12V

	E	C	B
Q101	-30.2 V	-43.8 V	-30.7 V
Q102	85.1 V	130.5 V	85.6 V
Q103	0 V	0 V	-7.6 V
Q104	0 V	0 V	-7.6 V
Q105	0 V	0 V	-7.6 V
Q106	0 V	0 V	-7.6 V
Q107	0 V	0 V	-7.6 V
Q108	0 V	0 V	-7.6 V
Q204	0 V	0 V	2.8 V
Q205	11.7 V	-7.5 V	0 V
Q206	4.9 V	4.9 V	0 V
Q207	0 V	0 V	6.3 V
Q208	0 V	0 V	6.3 V
Q209	0 V	0 V	0 V
Q210	0 V	0 V	0 V
Q211	0 V	0 V	0 V
Q212	0.6 V	11.2 V	1 V
Q213	0.6 V	-12 V	1 V
Q220	4 V	1.8 V	2.8 V
Q221	0 V	0 V	0.6 V
Q222	0 V	0 V	0.6 V
Q223	4.5 V	0 V	4.8 V
Q224	0 V	4.5 V	0 V
Q225	0 V	0 V	4.5 V
Q226	0 V	0 V	0 V

	IC105	IC214	IC215	IC216	IC217	IC501
1	15.7V	-4.9V	5.7V	5V	-5V	5V
2	0V	-12.8V	0V	0V	-12.8V	5V
3	11.9V	0V	12V	12V	0V	0V

Schematic Diagram (3/3) <JA model>



NOTE

1. All resistance values are in ohms. K=1,000 M
 2. All capacitance values are in microfarads. P=μ
- Voltage Measuring Conditions
1. Power Supply Voltage : AC100V, 50/60Hz
2. Measuring Meter : Digital Multimeter
3. Measuring Point Reference : Between Ground
4. Measuring Conditions : NO Signal Input
(Use the 2nd track on

IC201			
1	-29.3V	33	5V
2	-22.6V	34	1.4V
3	-27V	35	4.9V
4	-27V	36	0V
5	-22.6V	37	4.8V
6	-22.8V	38	0V
7	-22.8V	39	0V
8	-22.8V	40	0V
9	-22.8V	41	0V
10	-22.8V	42	0V
11	-22.8V	43	2.2V
12	-22.8V	44	-1.9V
13	-22.8V	45	-1.9V
14	-22.8V	46	-1.8V
15	-22.8V	47	0V
16	-7.6V	48	2.3V
17	-7.6V	49	2.3V
18	-35.8V	50	0V
19	-35.8V	51	0V
20	-7.4V	52	0V
21	0V	53	5V
22	0.4V	54	0V
23	0.4V	55	0V
24	5V	56	0V
25	5V	57	2.2V
26	1.4V	58	2.2V
27	1.4V	59	2.3V
28	4.9V	60	-1.7V
29	0V	61	-1.0V
30	4.8V	62	2.5V
31	6.9V	63	2.5V
32	5V	64	2.9V

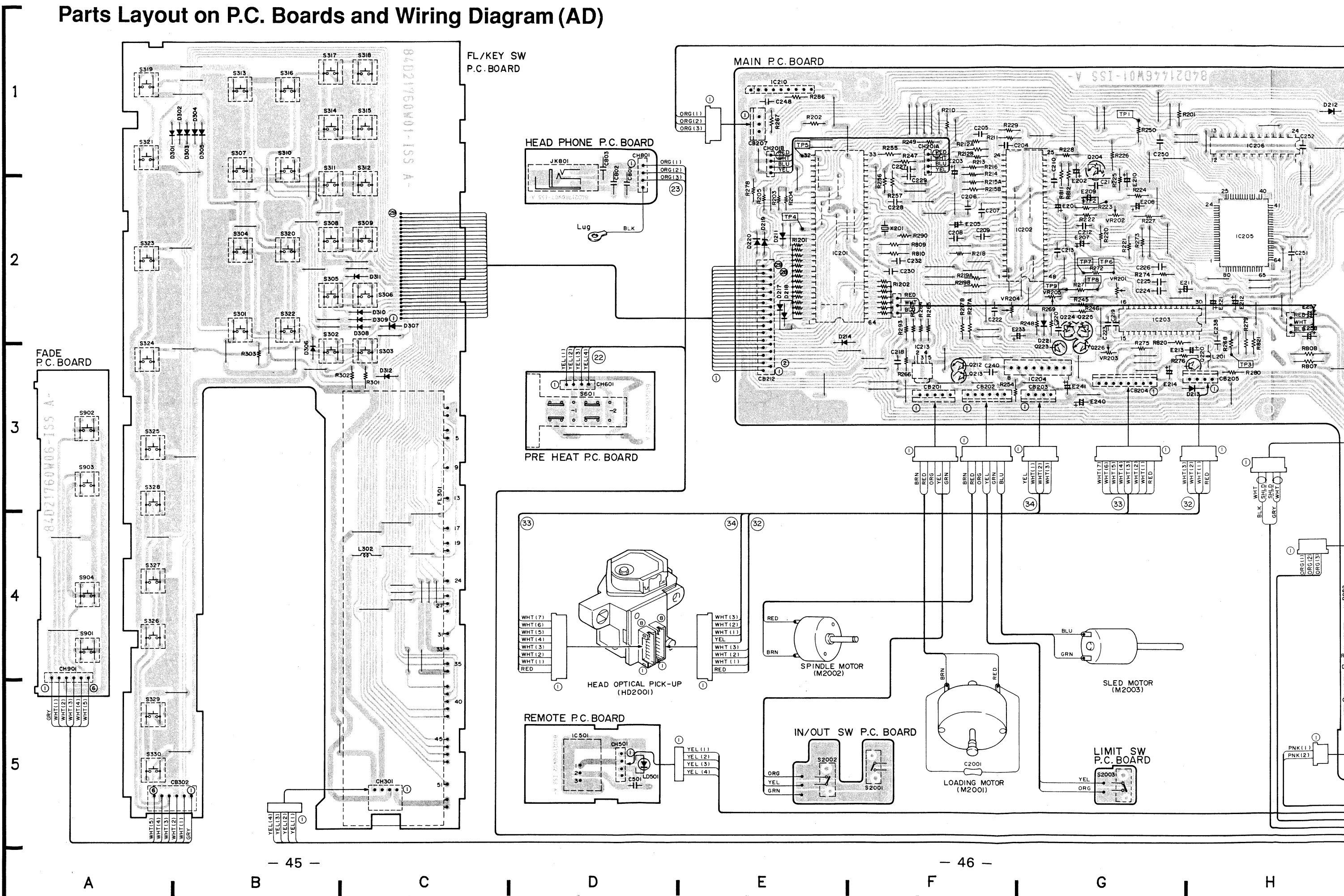
IC203			
1	0V		
2	1.1V		
3	0V		
4	2.5V		
5	2.8V		
6	-4.8V		
7	0V		
8	0V		
9	0V		
10	0V		
11	0V		
12	-0.6V		
13	-0.4V		
14	0V		
15	-2.2V		
16	-1.8V		
17	-4.9V		
18	0V		
19	0V		
20	0V		
21	-4.8V		
22	0V		
23	-1.7V		
24	-1.2V		
25	0V		
26	2.4V		
27	2.4V		
28	4.9V		
29	0.2V		
30	4.9V		

IC205			
1	0V	41	2.4V
2	-4.8V	42	2.4V
3	2.5V	43	2.4V
4	2.7V	44	2.5V
5	2.4V	45	2.5V
6	2.6V	46	2.5V
7	4.9V	47	2V
8	2.4V	48	2V
9	2.4V	49	4.3V
10	0V	50	2.6V
11	1.5V	51	0V
12	0V	52	0V
13	4.9V	53	2.3V
14	5V	54	0V
15	1.4V	55	0V
16	5V	56	4.9V
17	0V	57	4.9V
18	4.8V	58	0V
19	0V	59	0V
20	0V	60	0V
21	0V	61	0V
22	0V	62	0V
23	1.4V	63	0V
24	0V	64	0V
25	5V	65	0V
26	4.9V	66	0V
27	2.3V	67	0V
28	4.9V	68	0V
29	2V	69	0V
30	1.9V	70	0V
31	1.9V	71	0V
32	1.9V	72	0V
33	4.9V	73	4.9V
34	1.9V	74	0V
35	1.9V	75	0V
36	1.9V	76	2.3V
37	1.9V	77	0V
38	2.4V	78	2.5V
39	2.4V	79	2.4V
40	2.4V	80	2.5V

IC204			
1	11.2V		
2	0.6V		
3	0V		
4	0V		
5	-12V		
6	0.6V		
7	0V		
8	0V		
9	2V		
10	4.9V		
11	0V		
12	0V		
13	0V		
14	4.7V		
15	4.9V		
16	4.9V		
17	4.9V		
18	0V		
19	0V		
20	0V		
21	0V		
22	4.9V		
23	2.1V		
24	2.1V		
25	3.7V		
26	1.9V		
27	0V		
28	2.5V		

IC105	IC214	IC215	IC216	IC217
1	15.7V	-4.1V	5.7V	5V
2	0V	-12.8V	0V	0V
3	11.9V	0V	12V	12V

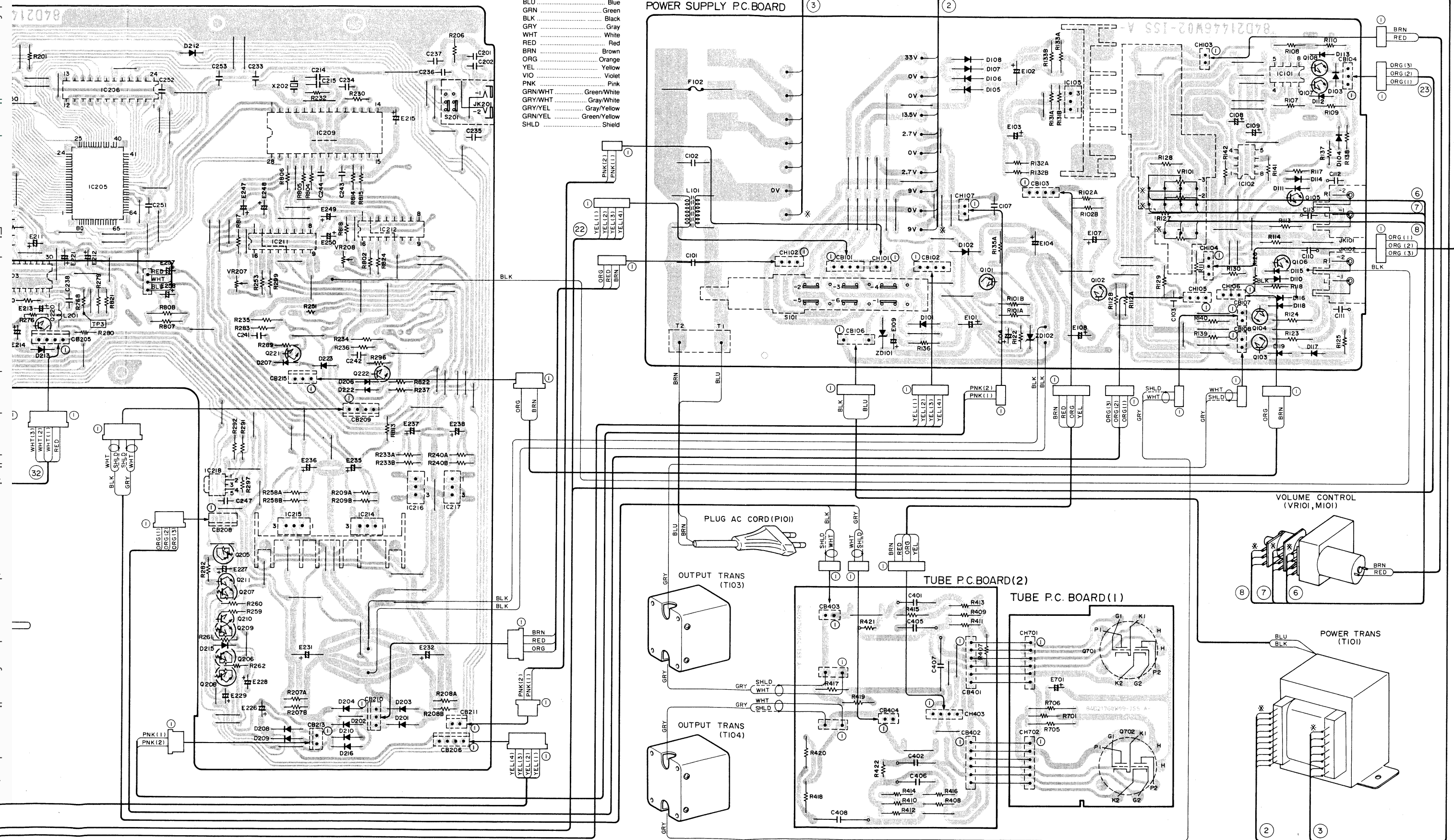
Parts Layout on P.C. Boards and Wiring Diagram (AD)



712078

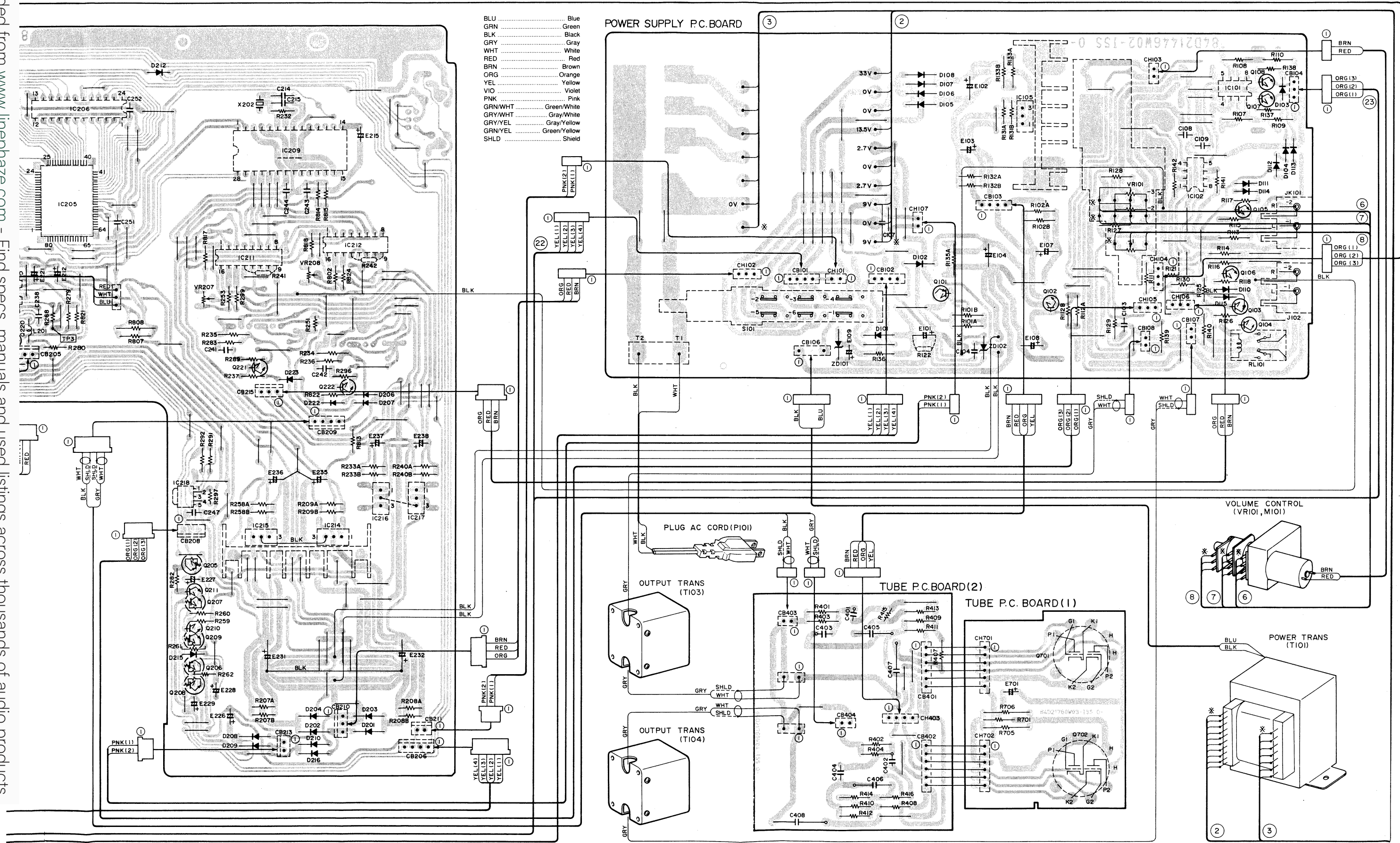
BLU Blue
 GRN Green
 BLK Black
 GRY Gray
 WHT White
 RED Red
 BRN Brown
 ORG Orange
 YEL Yellow
 VIO Violet
 PNK Pink
 GRN/WHT Green/White
 GRY/WHT Gray/White
 GRY/YEL Gray/Yellow
 GRN/YEL Green/Yellow
 SHLD Shield

POWER SUPPLY P.C. BOARD



H

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Electrical Parts List

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

Capacitor: μ F=microfarads. pF=picofarads

Abbreviations				
CAP.-Capacitor		CER.-Ceramic		
CP.-Chip		ELY.-Electrolytic		
LED.-Light Emitting Diode		MIC.-Mica		
MO.-Metal Oxide Film		MYL.-Mylar		
PP.-Polypropylene		SOL.-Solid		
TAN.-Tantalum		ZEN.-Zener		
Symbol No.	Part No.	Description		
Main P.C. Board				
IC's				
IC201	51T15749W02	15749W02		
IC202	51T84722F02	CXA1082BS		
IC203	51T84721F02	CXA1081S		
IC204	51T25098W01	STA341M		
IC205	51T84720F01	CXD1125QZ		
or	51T84719F01	CXD1135QZ		
IC206	51T84723F01	LC3516AS		
IC209	51T15628W01	SM5813AP		
IC210	51T62866F01	NJM2903S		
IC211	51T15956W01	AD1860		
IC212	51T15956W01	AD1860		
IC213	51T90889F01	LA6501LR		
IC214	51T80339F01	NJM7905FA		
IC215	51T16168W02	μ PC2405HF		
IC216	51T80338F01	NJM7805FA		
IC217	51T80339F01	NJM7905FA		
IC218	51T90889F01	LA6501LR		
Transistors				
Q204	48T82763F00	DTC114EL		
Q205	48T82762F02	DTA114EL		
Q206	48T82762F02	DTA114EL		
Q207	48T82763F02	DTC114EL		
Q208	48T82763F02	DTC114EL		
Q209	48T82763F02	DTC114EL		
Q210	48T82758F01	2SC4038		
Q211	48T82758F01	2SC4038		
Q212	48T69176F01	2SC3421		
Q213	48T69177F01	2SA1358		
Q220	48T82759F01	2SB1277		
Q221	48T57305F04	2SD1302		
or	48T90183F04	2SD1996		
Q222	48T57305F04	2SD1302		
or	48T90183F04	2SD1996		

Symbol No.	Part No.	Description		
Q223	48T43526F02	2SA950		
Q224	48T62963F04	DTC114		
Q225	48T62963F04	DTC114		
Q226	48T62963F11	DTC124TA		
Diodes				
D201	48S40477U01	1N4003		
D202	48S40477U01	1N4003		
D203	48S40477U01	1N4003		
D204	48S40477U01	1N4003		
D206	48T84758F01	1SS270A		
D207	48T84758F01	1SS270A		
D208	48S40477U01	1N4003		
D209	48S40477U01	1N4003		
D210	48S40477U01	1N4003		
D211	48T84758F01	1SS270A		
D212	48T84758F01	1SS270A		
D213	48T84758F01	1SS270A		
D214	48T84758F01	1SS270A		
D215	48T84758F01	1SS270A		
D216	48S40477U01	1N4003		
D217	48T84758F01	1SS270A		
D218	48T84758F01	1SS270A		
D219	48T84758F01	1SS270A		
D220	48T84758F01	1SS270A		
D221	48T84758F01	1SS270A		
D222	48T84758F01	1SS270A		
D223	48T84758F01	1SS270A		
Capacitors				
● C201	08T57298F01	CER..	0.1 μ F	
E201	23T00180L08	ELY..	33 μ F/16V	
● C202	08T57298F01	CER..	0.1 μ F	
E202	23T00180L08	ELY..	33 μ F/16V	
E203	23T00180L25	ELY..	10 μ F/50V	
C204	08T57705F67	MYL..	0.01 μ F	
C205	08T57705F69	MYL..	0.015 μ F	
E205	23T00180L25	ELY..	10 μ F/50V	
C206	08T90316F27	TF..	0.068 μ F	
C207	08T90316F29	TF..	0.1 μ F	
E207	23T00180L20	ELY..	0.47 μ F/50V	
C208	08T57705F73	MYL..	0.033 μ F	
E208	23T00180L13	ELY..	47 μ F/25V	
C209	08T90316F29	TF..	0.1 μ F	
E209	23T00180L24	ELY..	4.7 μ F/50V	

Note: ● : For West Germany model only(AD) Others ; Common

▲ : For Japanese model only(JA)

Symbol No.	Part No.	Description		
C210	08T57851F13	TF.. 0.1 μ F		
E210	23T00180L21	ELY.. 1 μ F/50V		
C211	08T57705F63	MYL.. 4700pF		
E211	23T00180L20	ELY.. 0.47 μ F/50V		
C212	08T57705F55	MYL.. 1000pF		
E212	23T00180L26	ELY.. 22 μ F/50V		
C213	08T57705F67	MYL.. 0.01 μ F		
E213	23T00180L28	ELY.. 47 μ F/50V		
C214	08S65480F13	CER.. 10pF		
E214	23T00180L26	ELY.. 22 μ F/50V		
C215	08S65480F13	CER.. 10pF		
E215	23T00180L08	ELY.. 33 μ F/16V		
C218	08T90316F29	TF.. 0.1 μ F		
C219	08T25620W01	CER.. 0.47 μ F		
C220	08T57705F59	MYL.. 2200pF		
E221	23T00180L26	ELY.. 22 μ F/50V		
C222	08T57705F63	MYL.. 4700pF		
C223	08T57705F73	MYL.. 0.033 μ F		
C224	08T57705F67	MYL.. 0.01 μ F		
C225	08T57705F67	MYL.. 0.01 μ F		
C226	08T57705F67	MYL.. 0.01 μ F		
E226	23T00181L21	ELY.. 1000 μ F/16V		
C227	08T57705F73	MYL.. 0.033 μ F		
E227	23T00180L25	ELY.. 10 μ F/50V		
C228	08T57705F69	MYL.. 0.015 μ F		
E228	23T00180L22	ELY.. 2.2 μ F/50V		
C229	08T57705F65	MYL.. 6800pF		
E229	23T00180L21	ELY.. 1 μ F/50V		
C230	08T25620W01	CER.. 0.47 μ F		
E231	23T00024L11	ELY.. 2200 μ F/50V		
C232	08T25620W01	CER.. 0.47 μ F		
E232	23T00024L11	ELY.. 2200 μ F/50V		
E233	23T00180L21	ELY.. 1 μ F/50V		
● C233	08T25620W01	CER.. 0.47 μ F		
● C234	21S40655F19	CER.. 47pF		
● C235	08T57298F01	CER.. 0.1 μ F		
E235	23T00207L01	ELY.. 100 μ F/50V		
● C236	08T40794F50	CER.. 1000pF		
E236	23T00207L01	ELY.. 100 μ F/50V		
● C237	08T57298F01	CER.. 0.1 μ F		
E237	23T00181L48	ELY.. 100 μ F/50V		
C238	08T57705F59	MYL.. 2200pF		
E238	23T00181L48	ELY.. 100 μ F/50V		
C240	08T90316F29	TF.. 0.1 μ F		
E240	23T00180L08	ELY.. 33 μ F/16V		

Symbol No.	Part No.	Description		
C241	08T00151L73	PP.. 9100P		
E241	23T00180L08	ELY.. 33 μ F/16V		
C242	08T00151L73	PP.. 9100p		
C243	08T25620W01	CER.. 0.47 μ F		
C244	08T25620W01	CER.. 0.47 μ F		
C247	08T57298F01	CER.. 0.1 μ F		
● E247	23T00180L25	ELY.. 10 μ F/50V		
C248	08T57298F01	CER.. 0.1 μ F		
● E248	23T00180L25	ELY.. 10 μ F/50V		
● E249	23T00180L25	ELY.. 10 μ F/50V		
C250	08T25620W01	CER.. 0.47 μ F		
● E250	23T00180L25	ELY.. 10 μ F/50V		
C251	08T25620W01	CER.. 0.47 μ F		
C252	08T25620W01	CER.. 0.47 μ F		
● C253	08T25620W01	CER.. 0.47 μ F		
● E257	23T00180L25	ELY.. 10 μ F/50V		
● E258	23T00180L25	ELY.. 10 μ F/50V		
Resistors				
R808	06T92264F19	MF.. 56 ohm 2W		
VR201	18T15355W15	Volume, RH064AC		
		22K ohm		
VR202	18T15355W09	Volume, RH064AC		
		2.2K ohm		
VR203	18T15335W15	Volume, RH064AC		
		22K ohm		
VR204	18T15335W15	Volume, RH064AC		
		22K ohm		
VR205	18T15335W15	Volume, RH064AC		
		22K ohm		
VR207	18T15355W19	Volume, RH074AC		
		100K ohm		
VR208	18T15355W19	Volume, RH074AC		
		100K ohm		
R1201	06T74182F09	Res.. Block		
		270K ohm x15		
R1202	06T74182F08	Res.. Block		
		270K ohm x8		
Coil				
L201	24T70381F21	COIL. IND.10 μ H		
Jack				
● JK201	09T84214F01	Head Phone Mini		
● S201				

Note: ● : For West Germany model only (AD) Others : Common

▲ : For Japanese model only (JA)

Symbol No.	Part No.	Description		
Crystals				
X201	91T15285W01	CER. LOCK 4.19MHz		
X202	91T84727F02	AT-51 16.9344MHz		
Power Supply P.C. Board				
IC's				
IC101	51T81896F01	M5216P		
IC102	51T25576W01	NJM4580DD		
IC105	51T16168W01	μ PC2412HF		
Transistors				
Q101	48T69177F01	2SA1358		
Q102	48T71447F01	2SC2752		
Q103	48T57305F04	2SD1302		
or	48T90183F04	2SD1996		
▲ Q104	48T69176F01	2SC3421		
● Q104	48T57305F04	2SD1302		
● or	48T90183F04	2SD1994		
Q105	48T57305F04	2SD1302		
or	48T90183F04	2SD1996		
Q106	48T57305F02	2SD1302		
or	48T90183F04	2SD1996		
Q107	48T57305F04	2SD1302		
or	48T90183F04	2SD1996		
Q108	48T57305F04	2SD1302		
or	48T90183F04	2SD1996		
Diodes				
D101	48S40477U01	1N4003		
D102	48S40477U07	1N4007		
D103	48T84758F01	1SS270A		
D104	48T84758F01	1SS270A		
D105	48S40477U01	1N4003		
D106	48S40477U01	1N4003		
D107	48S40477U01	1N4003		
D108	48S40477U01	1N4003		
D110	48T84758F01	1SS270A		
D111	48T84758F01	1SS270A		
D112	48T84758F01	1SS270A		
D113	48T84758F01	1SS270A		
D114	48T84758F01	1SS270A		
D115	48T84758F01	1SS270A		
● D116	48T84758F01	1SS270A		

Note: ● : For West Germany model only (AD) Others : Common

▲ : For Japanese model only (JA)

Symbol No.	Part No.	Description		
● D117	48T84758F01	1SS270A		
● D118	48T84758F01	1SS270A		
● D119	48T84758F01	1SS270A		
▲ ZD101	48T52741F71	ZEN., HZ33-2L		
● ZD101	48T83128F71	ZEN., HZS33-2L		
ZD102	48T83128F65	ZEN., HZS27-2L		
Capacitors				
● C101	08T00196L01	XE., 0.01 μ F		
E101	23T00181L82	ELY., 100 μ F/ 250V		
● C102	08T00196L01	XE., 0.01 μ F		
E102	23T00181L32	ELY., 3300 μ F/25V		
C103	08T90316F29	TF., 0.1 μ F		
E103	23T00132L27	ELY., 100 μ F/50V		
▲ C104	08T25620W01	CER., 0.47 μ F		
● C104	23T00181L39	ELY., 0.47 μ F/ 100V		
E104	23T00181L82	ELY., 100 μ F/ 250V		
● C107	08T00125L02	PLY., 4700pF		
E107	23T00181L81	ELY., 33 μ F/ 250V		
▲ C108	08T25620W01	CER., 0.47 μ F		
● C108	23T00181L39	ELY., 0.47 μ F/ 100V		
E108	23T00181L81	ELY., 33 μ F/ 250V		
▲ C109	08T25620W01	CER., 0.47 μ F		
● C109	23T00181L39	ELY., 0.47 μ F/ 100V		
E109	23T00180L23	ELY., 3.3 μ F/50V		
● C110	08T00151L13	PP., 1000pF		
● C111	08T00151L13	PP., 1000pF		
● C112	08T00151L12	PP., 820pF		
● C113	08T00151L12	PP., 820pF		
Resistors				
▲ R121	06T92264F18	MF., 51 ohm 2W		
R123	06T00147L53	FC., 330 ohm 1/2W		
R124	06T00147L53	FC., 330 ohm 1/2W		
VR101	18T10803W02	Volume, RK16313MA		
M101	18T10803W02	Volume, RK16313MA		
Relay				
▲ RL101	80T92812F02	MR62-5SR		

Symbol No.	Part No.	Description		
Coil				
● L101	24T82315F01	Filter. Line FKOB160MH02		
Switch				
S101	40T15820W01	PUSH POWER		
Jacks				
JK101	09T15974W01	2P. T6302-D105U (OUT-VARIABLE)		
JK102	09T15974W01	2P. T6302-D105U (OUT-FIXED)		
FL/Key SW P.C. Board				
Diodes				
D301	48T84758F01	1SS270A		
D302	48T84758F01	1SS270A		
D303	48T84758F01	1SS270A		
D304	48T84758F01	1SS270A		
D305	48T84758F01	1SS270A		
D306	48T84758F01	1SS270A		
D307	48T84758F01	1SS270A		
D308	48T84758F01	1SS270A		
D309	48T84758F01	1SS270A		
D310	48T84758F01	1SS270A		
D311	48T84758F01	1SS270A		
D312	48T84758F01	1SS270A		
Switches				
S301	40T83324F11	TACT SKHHAP(Repeat)		
S302	40T83324F11	TACT SKHHAP(6)		
S303	40T83324F11	TACT SKHHAP(0)		
S304	40T83324F11	TACT SKHHAP(A-Pause)		
S305	40T83324F11	TACT SKHHAP(7)		
S306	40T83324F11	TACT SKHHAP(1)		
S307	40T83324F11	TACT SKHHAP(A-Scan)		
S308	40T83324F11	TACT SKHHAP(8)		
S309	40T83324F11	TACT SKHHAP(2)		
S310	40T83324F11	TACT SKHHAP(M-Check)		
S311	40T83324F11	TACT SKHHAP(9)		
S312	40T83324F11	TACT SKHHAP(3)		
S313	40T83324F11	TACT SKHHAP(Random)		
S314	40T83324F11	TACT SKHHAP(10)		
S315	40T83324F11	TACT SKHHAP(4)		

Note: ● : For West Germany model only(AD) Others ; Common

▲ : For Japanese model only(JA)

Symbol No.	Part No.	Description		
S316	40T83324F11	TACT SKHHAP(Edit)		
S317	40T83324F11	TACT SKHHAP(+10)		
S318	40T83324F11	TACT SKHHAP(5)		
S319	40T83324F11	TACT SKHHAP(STOP)		
S320	40T83324F11	TACT SKHHAP(Clear)		
S321	40T83324F11	TACT SKHHAP(PAUSE)		
S322	40T83324F11	TACT SKHHAP(Program)		
S323	40T83324F11	TACT SKHHAP(PLAY)		
S324	40T83324F11	TACT SKHHAP(Open/Close)		
S325	40T83324F11	TACT SKHHAP(SKIP-up)		
S326	40T83324F11	TACT SKHHAP(BACKWARD)		
S327	40T83324F11	TACT SKHHAP(FORWARD)		
S328	40T83324F11	TACT SKHHAP(SKIP-down)		
S329	40T83324F11	TACT SKHHAP (Display-adjust)		
S330	40T83324F11	TACT SKHHAP(T-display)		
Fade P.C. Board				
Switches				
S901	40T83324F11	TACT SKHHAP (Time fade out)		
S902	40T83324F11	TACT SKHHAP(VOLUME-down)		
S903	40T83324F11	TACT SKHHAP(VOLUME-Up)		
S904	40T83324F11	TACT SKHHAP(Fadeout)		
Coil				
▲ L301	24T50508F46	Ind 1mH		
● L302	24T35072W01	FBI. BLO1RN1-A92T5		
Remote P.C. Board				
IC's				
IC501 or	51T16094W01 51T16094W02	GP 1U521 GP 1U521X		
Capacitor				
C501	08S65480F63	CER.. 0.1 μ F		
LED				
LD501	48T60947F05	SHL-34VR3F(RED)		

Symbol No.	Part No.	Description		
Tube P.C. Board (1)				
Capacitor				
E701	23T00181L69	ELY.. 10 μ H/ 100V		
Resistors				
R705	06T92261F26	MF.. 2.4 ohm 2W		
R706	06T92261F26	MF.. 2.4 ohm 2W		
Tube P.C. Board (2)				
Capacitors				
▲ C401	08T00151L25	PP.. 0.01 μ F		
● C401	08T00019L01	Mt1.. 0.1 μ F		
▲ C402	08T00151L25	PP.. 0.01 μ F		
● C402	08T00019L01	Mt1.. 0.1 μ F		
▲ C403	08T00151L13	PP.. 1000pF		
▲ C404	08T00151L13	PP.. 1000pF		
C405	08T00019L01	Mt1.. 0.1 μ F		
C406	08T00019L01	Mt1.. 0.1 μ F		
C407	08T00019L12	MYL.. 3.3 μ F		
C408	08T00019L12	MYL.. 3.3 μ F		
Miscellaneous				
▲ Q701	65T00091L03	Tube, 6CG7GE		
● Q701	65T00091L01	Tube, 6CG7		
▲ Q702	65T00091L03	Tube, 6CG7GE		
● Q702	65T00091L01	Tube, 6CG7		
▲ C107	08T00125L02	Poly.. 4700pF		
▲ C801	08T65480F63	CER.. 0.1 μ F		
● C801	08T57298F01	CER.. 0.1 μ F		
● C802	08T00151L12	PP.. 820pF		
● C803	08T00151L12	PP.. 820pF		
JK801	09T66672F04	Head Phone		
S601	40T15685W01	SW. Push(PRE HEAT)		
▲ P101	28T81592F03	Plug. AC Cord		
● P101	28T43812P04	Plug. Cord		
▲ T101	25T25627W01	Trans. Power		
● T101	25T25627W02	Trans. Power		
T103	25T25626W03	Trans. Output		
T104	25T25626W04	Trans. Output		
● F102	65T42077U01	Fuse, Semko 315mA		
FL301	65T15386W01	FL Display FV335G		

Symbol No.	Part No.	Description		
C2001	08S40154T63	Cap.. Cer. 0.022 μ F		
S2001	40T71025F01	SW.. Detector(CLOSE)		
S2002	40T71025F01	SW.. Detector(OPEN)		
S2003	40T71025F01	SW.. Detector(Limit)		
M2001	01V11200W42	Assy.. Motor Loading		
M2002	59T81431F01	Motor.. Spindle		
M2003	01V81800F61	Assy.. Motor SLED		
HD2001	88T81528F01	Head. Optical Pick Up		

Note: ● ; For West Germany model only(AD) Others ; Common

▲ : For Japanese model only(JA)

Cabinet Assembly Parts List

Note: The parts without part numbers are not supplied.

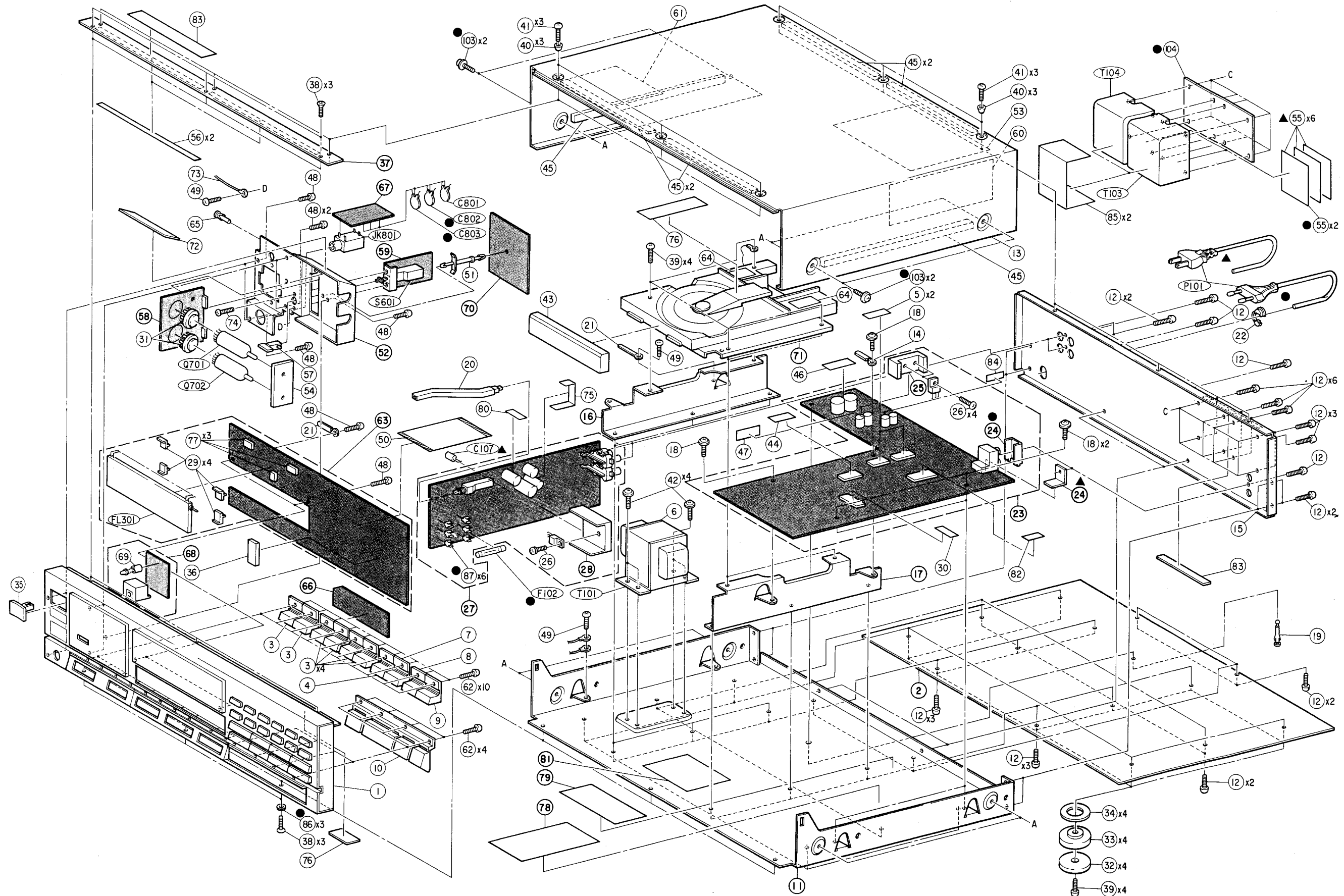
Symbol No.	IN-dex	Part No.	Description
▲	1	5-C	01V00305S01 Assy., Front Panel
●	1	5-C	01V26100W40 Assy., Front Panel
	3	4-B	36A11877W01 Konb. Display ADJ
	4	4-B	36A11877W10 Konb. Push Backward
	5	2-E	14S20875W35 Insulator, Cover
	6	3-D	14S20478W20 Insulator, Cover
	7	4-C	36A11877W11 Konb. Push Forward
	8	4-C	36A11877W12 Konb. Skip Down
	9	5-C	36A11877W13 Konb. Skip Up
	10	5-C	36B11878W02 Konb. Function
	12		03S82672F33 Scr., Bind(M3x8)
	13	2-F	15C11879W01 Cover, Top
	14	3-E	29A737272 Lug, Wrap Around
▲	15	4-G	15D11880W05 Cover, Rear
●	15	4-G	15D11880W06 Cover, Rear
▲	18		03S71252F70 Scr., Cup(M3x10)
●	18		03S71677F41 Scr., W/Washer(3x6)
	19	4-H	43T92160F04 Spacer, PCB 18R
	20	3-C	45B57186F01 Lever, Konb
	21		29C41045P05 Lug, Wrap Around
▲	22	2-G	43B41625J05 Stopper, Cord
●	22	2-G	43B41625J02 Stopper, Cord
	26		03S72235F20 Scr., Bind(M3x8)
	29	3-B	07A83876F01 Support, FL
	30	4-F	14S94461F85 Insulator, Cover
	31	3-A	09T64527F02 Socket, Tube 9P
	32	5-F	75A80719F01 Pad, Trannleg
	33	5-F	75B80720F03 Trannleg
	34	5-F	75A13129W02 Pad, Trannleg
	35	4-A	36A67330F01 Konb. Power
	36	4-B	75S72374F91 Cushion, Rubber
	38		03S44205G50 Scr., Countersink (M3x6)
	39		03S71677F30 Scr., Bind(M4x12)
	40		13A13279W01 ESC, Scr(N)
	41		03S52360F36 Scr., Bind(M4x8)
	42	3-D	03S44205G92 Scr., Bind(M4x6)
	43	2-D	64B11870W03 Tray, Panel
	44	3-E	14S94461F86 Insulator, Cover
	45		75S12196W27 Cushion, Rubber
▲	46	3-E	14S20478W35 Insulator, Cover
●	46	3-E	14S20478W53 Insulator, Cover
	47	3-E	14S20875W39 Insulator, Cover
	48		03S71677F06 Scr., Flange(M2.6x6)
	49		03S44205G85 Scr., Bind(M3x8)
	50	3-C	30T15818W01 Wire, Parallel 29P

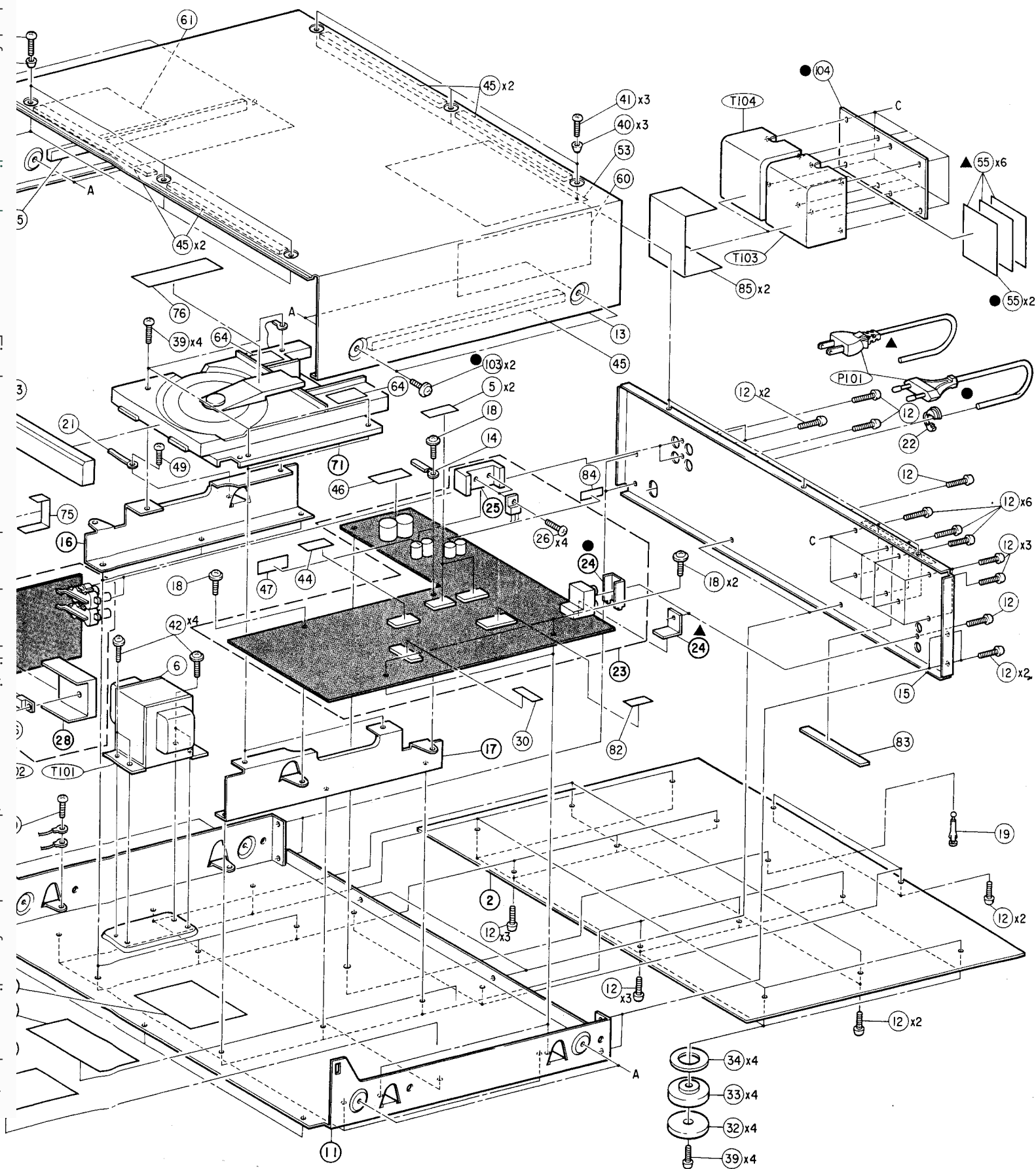
Symbol No.	IN-dex	Part No.	Description
	51	2-C	43T16241W08 Support, PBC
	53	1-F	14S20478W38 Insulator, Cover
	54	3-B	75A67341F01 Cushion, Tube
	55	2-H	14S20478W39 Insulator, Cover
	56	1-B	14S96390F69 Insulator, Cover
	57	3-B	36A67333F01 Konb. Push
	60	1-F	14S96390F70 Insulator, Cover
▲	61	1-D	14S20478W01 Insulator, Cover
●	61	1-D	14S20478W38 Insulator, Cover
	62		03S40012G18 Scr., TPG(M2.6x6)
	64		75S12196W53 Cushion, Rubber
	65	2-B	05B41635J02 Rivet, Push
	69	4-A	43A41837U05 Spacer, SW
	72	2-B	14S96390F58 Insulator, Cover
	73	2-B	01T84733F11 Assy., Lug Wire
	74	2-B	03S82671F81 Scr., Bind(M3x6)
	75	3-D	14S20478W34 Insulator, Cover
	76		75S12196W54 Cushion, Rubber
	77	3-B	75S12196W21 Cushion, Rubber
	80	3-C	14S20478W16 Insulator, Cover
	82	4-F	14S94461F87 Insulator, Cover
	83		14S20478W37 Insulator, Cover
	84	3-F	14S20875W40 Insulator, Cover
	85	2-G	14S20478W36 Insulator, Cover
●	86	5-B	04S40072G31 Washer, Tooth Lock
●	87	4-C	09T51410F01 Holder, Fuse
▲	100		75A21814W01 Cushion, Wood Cab
▲	101	5-K	16B21554W03 Cab., Wood "R"
▲	102	3-H	16B21554W04 Cab., Wood "L"
▲	103		03A92739F02 Scr., Wood Cab(M4x25)
●	103		03S40036U01 Scr., W/Washer(M4x8)
●	104	1-G	14A38009W01 Insulator, Cover

NOTE: ● ; For West Germany model only(AD) Others ; Common

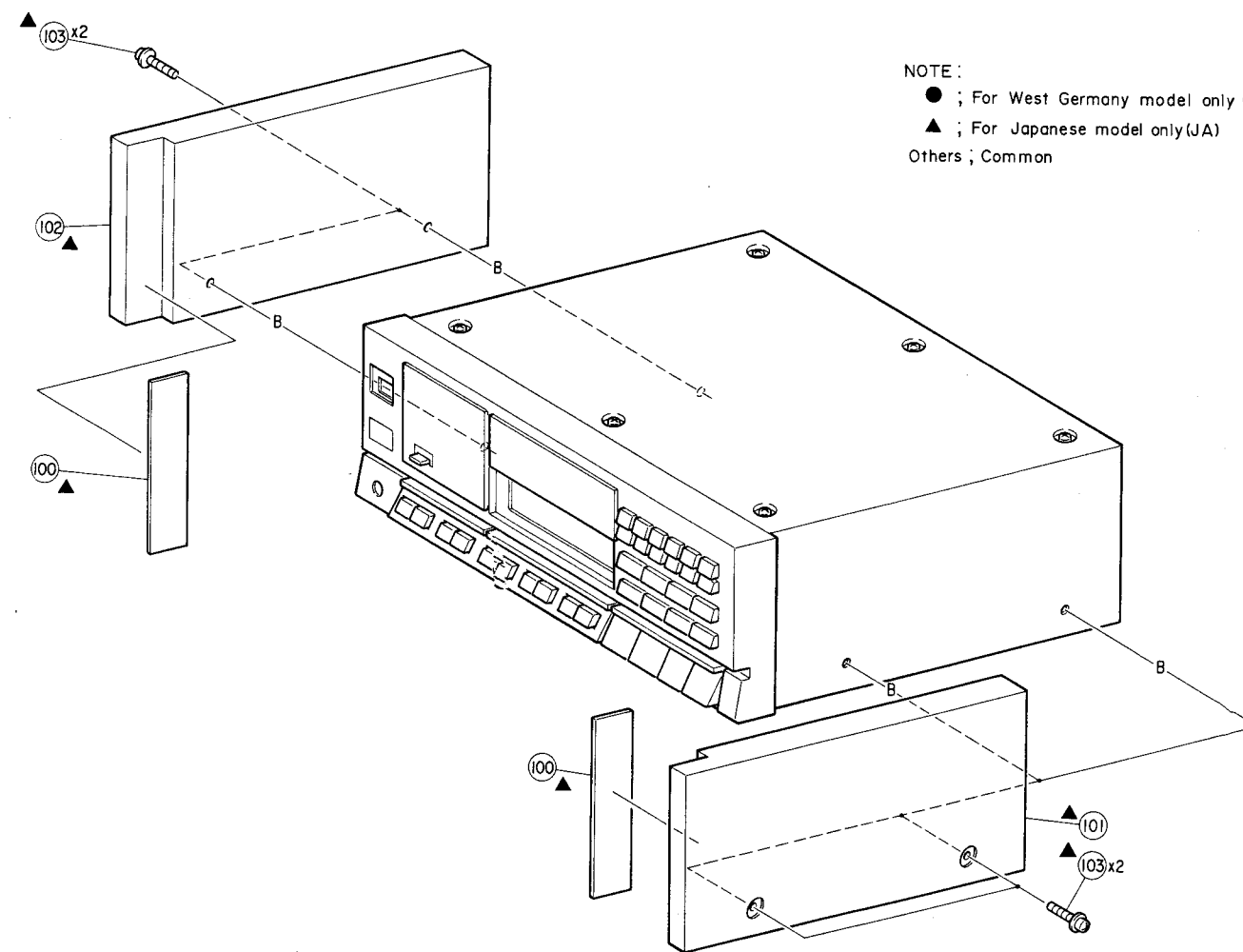
▲ ; For Japanese model only(JA)

Exploded View (Cabinet)





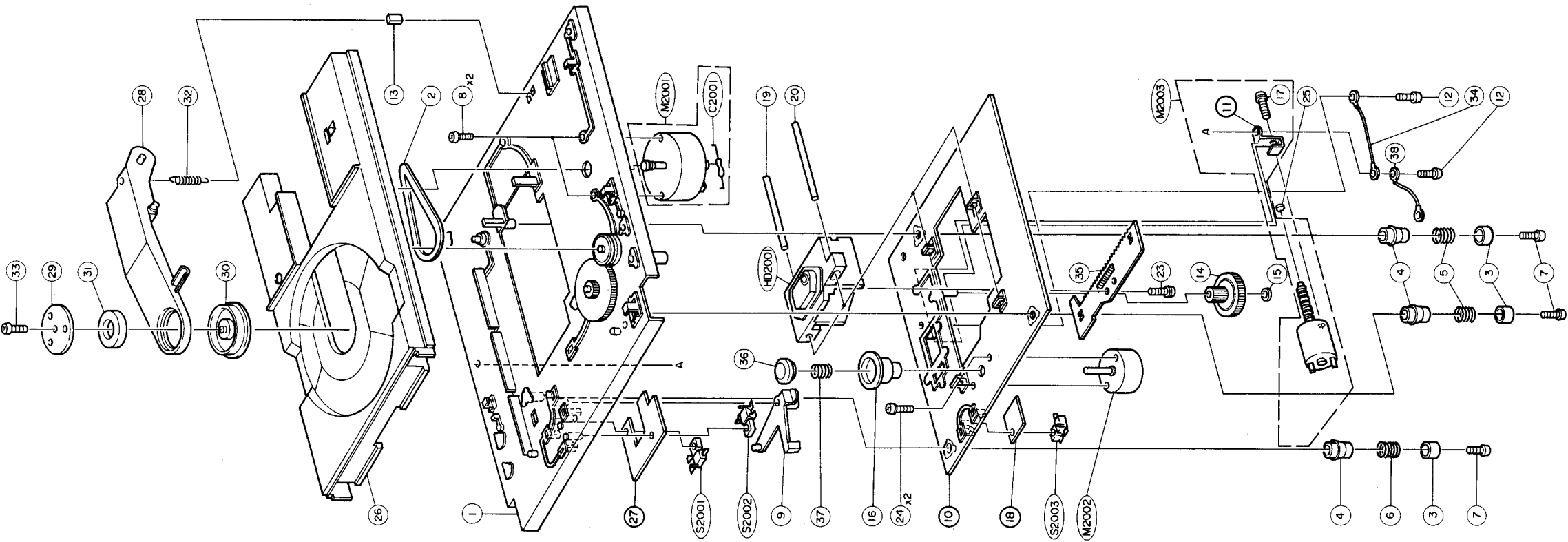
- 60 -



NOTE:
 ● ; For West Germany model only (AD)
 ▲ ; For Japanese model only (JA)
 Others ; Common

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Exploded View (Mechanism)



Mechanism

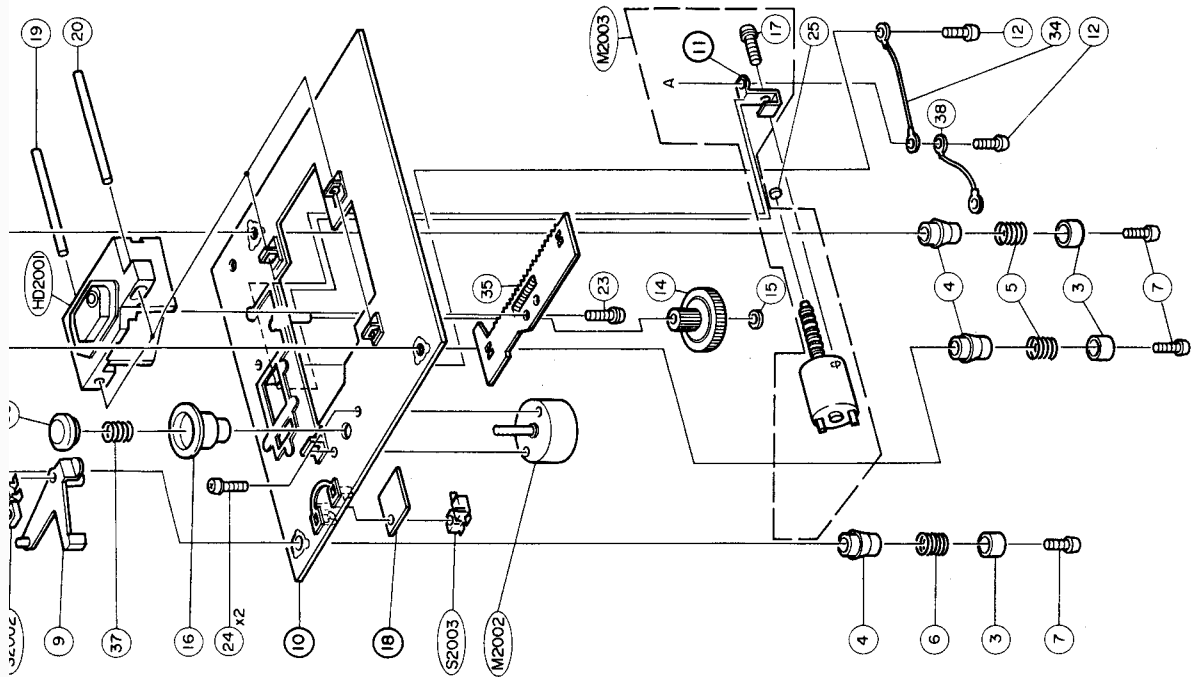
Note: The parts with

Symbol No.	IN- dex	Part No
1	4-C	01C823191
2	2-C	42A814271
3		43A814071
4		75A814111
5	3-G	41A814281
6	4-G	41A814281
7		03S400121
8	2-C	03D400141
9	4-D	45A814341
12	2-G	03S442051
13	2-C	75S121961
14	3-F	44A814011
15	3-F	04A413451
16	4-E	49B814141
17	2-F	03D400141
19	2-D	47A814261
20	2-D	47A814261
23	3-F	03S704941
24	4-E	03D400141
25	2-F	43A411821
26	4-C	01C107161
28	2-B	45C814181
29	3-A	07A814131
30	3-B	49A814031
31	3-A	59T814301
32	2-B	41B814291
33	3-A	03S704941
34	2-G	01T924831
35	3-E	01A823231
36	3-D	49B814171
37	4-D	41A814281
38	2-G	01T847331

Mechanism Assembly Parts List

Note : The parts without part numbers are not supplied.

Symbol No.	IN-dex	Part No.	Description			Symbol No.	IN-dex	Part No.	Description		
1	4-C	01C82319F01	Assy.. Chas. Main								
2	2-C	42A81427F02	Belt, Drive								
3		43A81407F01	Bush, Damper								
4		75A81411F01	Rubber, Damper								
5	3-G	41A81428F03	Spring, Compresion								
6	4-G	41A81428F05	Spring, Compresion								
7		03S40012G18	Scr.. Tpg(M2.6X6)								
8	2-C	03D40014G19	Scr.. W/Washer (M2.6x5)								
9	4-D	45A81434F01	Arm, SW								
12	2-G	03S44205G30	Scr.. Pan(M2.6x4)								
13	2-C	75S12196W06	Cushion, Rubber								
14	3-F	44A81401F01	Gear, Worm Wheel								
15	3-F	04A41345F02	Washer, Lock(M1.7)								
16	4-E	49B81414F01	Disc, Table								
17	2-F	03D40014G61	Scr.. W/Washer(M2x5)								
19	2-D	47A81426F01	Shaft, Head								
20	2-D	47A81426F02	Shaft, Head								
23	3-F	03S70494F01	Scr.. Bind(M2x5)								
24	4-E	03D40014G07	Scr.. W/Washer(M2x4)								
25	2-F	43A41182P02	Ball, Steel								
26	4-C	01C10716W01	Assy.. Tray Disc								
28	2-B	45C81418F04	Arm, Clamp								
29	3-A	07A81413F01	BKt.. Magnet								
30	3-B	49A81403F01	Wheel, Clamp								
31	3-A	59T81430F01	Magnet								
32	2-B	41B81429F02	Spring, Extension								
33	3-A	03S70494F08	Scr.. Pan(M2x5)								
34	2-G	01T92483F01	Assy.. Lug Wire 1P								
35	3-E	01A82323F01	Assy.. Rack								
36	3-D	49B81417F01	Disc, Guide								
37	4-D	41A81428F01	Spring, Compresion								
38	2-G	01T84733P11	Assy.. Lug Wire								



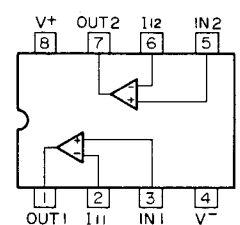
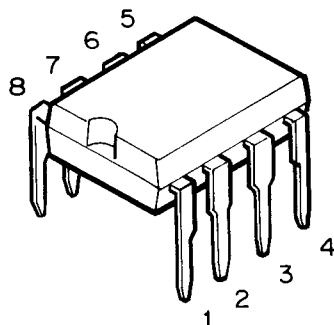
Symbol No.	Part No.	Description		
▲	201-1	68P69552F86	Owner's Manual	
●	201-1	68P96552F89	Owner's Manual	
▲	201-2	01T25754W01	Unit. Remocon	
●	201-2	01T25754W02	Unit. Remocon	
	201-3	60T58064F01	Battery. SUM-3	
	201-4	28T67347F04	Plug. Output	
●	201-5	01T82091F01	Assy., Mini. Plug Cord	
▲	202	56S10005W58	Carton. Packing	
●	202	56S10005W59	Carton. Packing	
	203	56B40442T08	Packing. Front Frame	
	204	56D11887W01	Tray. Pkg	
	205	56B40230G08	Sack. Poly	
▲	206	56A52079F12	Packing. Sheet	
▲	207	56A22487W01	Pad. Packing	
●	207	56A22487W02	Pad. Packing	
	208	56A22665W01	Pad. Packing	

Packing Method View

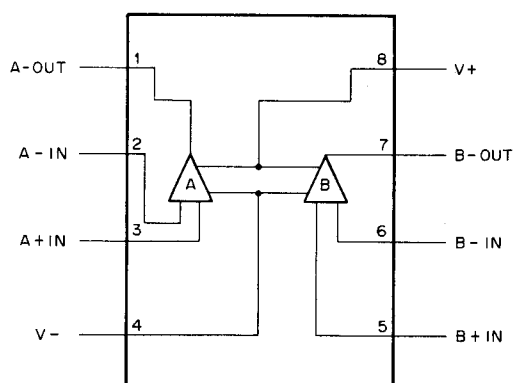
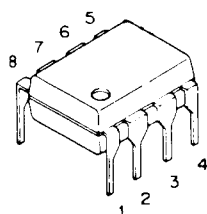


Semi-Conductor Lead Identifications

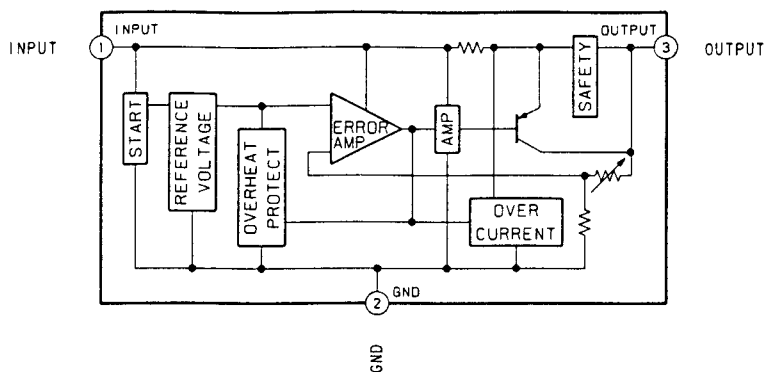
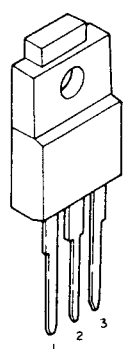
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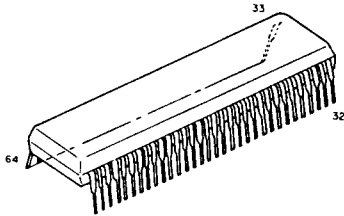
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μPC2412HF: IC105
μPC2405HF: IC215

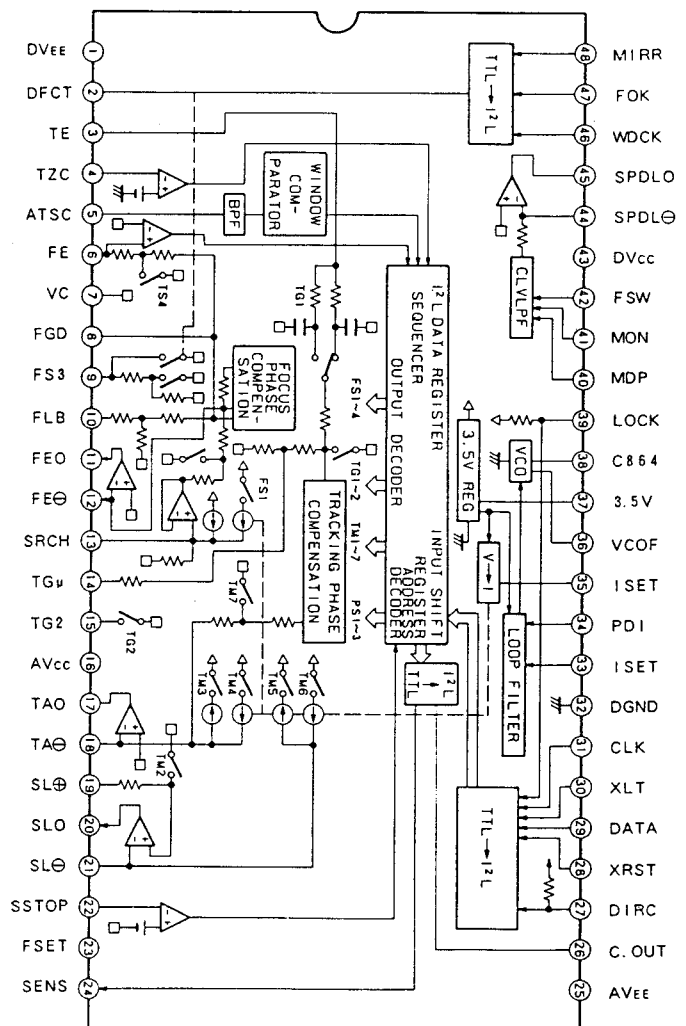
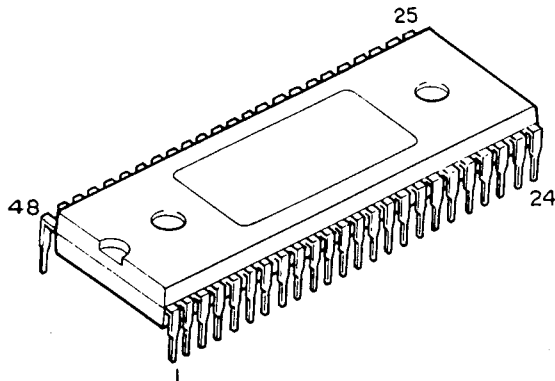


15749W02: IC201

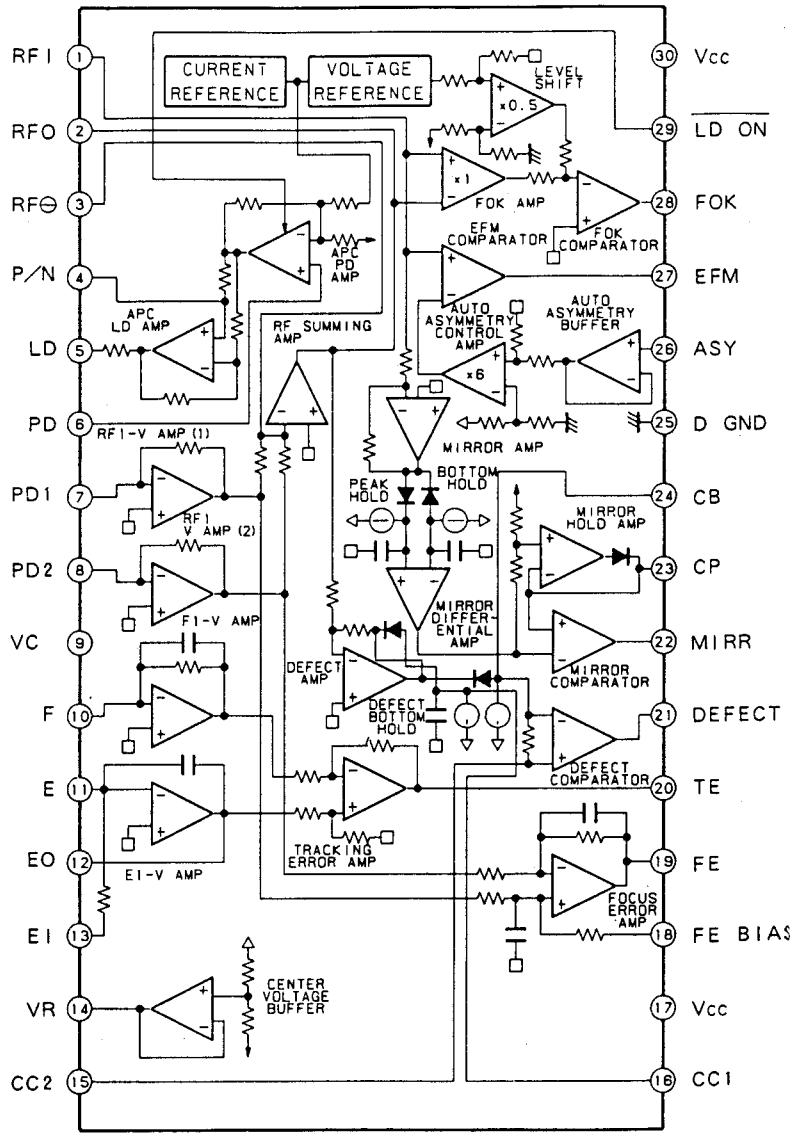
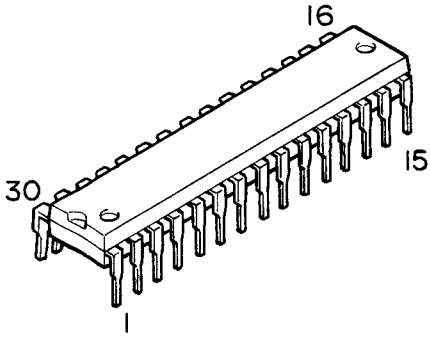


1	SEG4	17	EMPHA	33	SQ CK	49	OSC
2	SEG3	18	GFS	34	SUBQ	50	GND
3	SEG2	19	-35V	35	FOK	51	GND
4	SEG1	20	A.MUTE	36	PWM	52	NC
5	SEG0	21	CLOSE SW	37	SENS	53	+5V
6	DIG0(1G)	22	OPEN SW	38	NC	54	VOL CP
7	DIG1(2G)	23	LD ON	39	MUTE	55	VOL UP
8	DIG2(3G)	24	XRST	40	RHT SW	56	VOL DOWN
9	DIG3(4G)	25	XLT	41	CLOSE	57	SEG12
10	DIG4(5G)	26	DATA	42	OPEN	58	SEG11
11	DIG5(6G)	27	CLK	43	SWRTN	59	SEG10
12	DIG6(7G)	28	POWER	44	KRTN2	60	SEG9
13	DIG7(8G)	29	SCOR	45	KRTN1	61	SEG8
14	DIG8(9G)	30	RMC	46	KRTN0	62	SEG7
15	DIG9(10G)	31	NC	47	RESET	63	SEG6
16	DIMM	32	+5V	48	OSC	64	SEG5

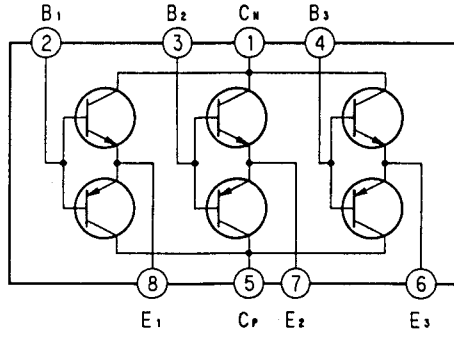
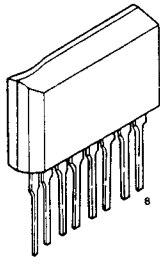
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CXA1081S: IC203

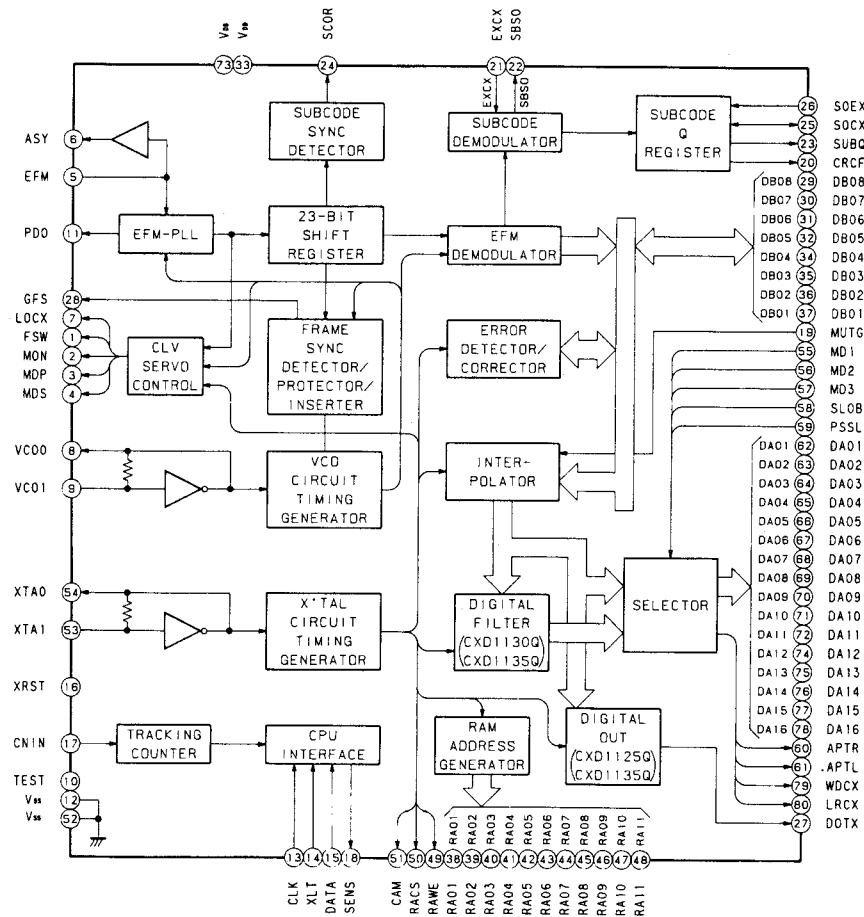
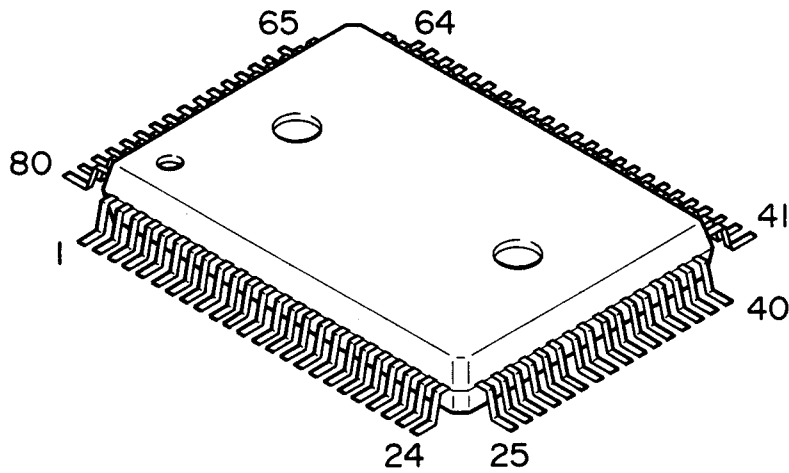


STA341M: IC204

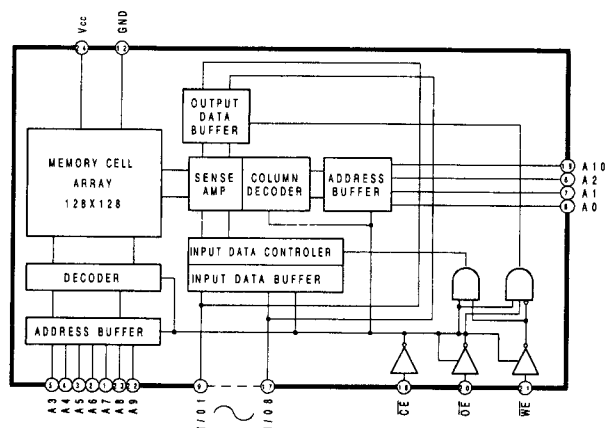
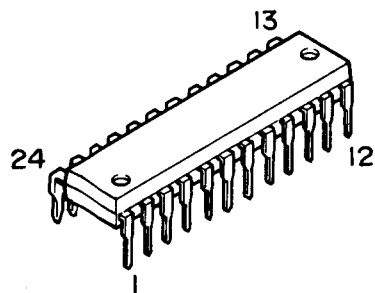


B. Base
C. Collector
E. Emitter

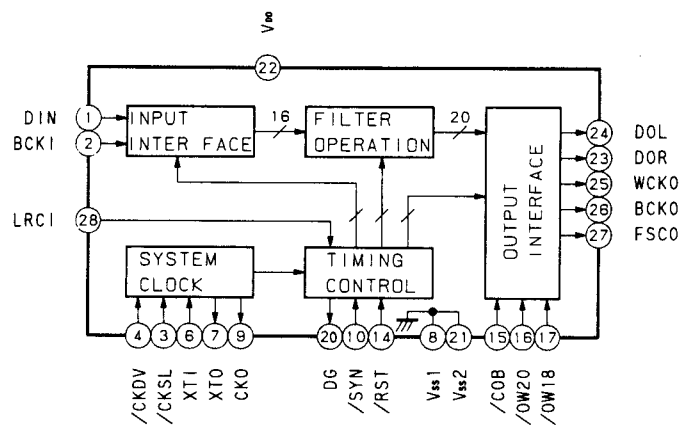
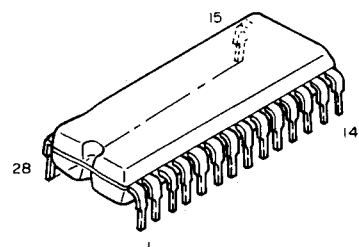
CDX1125QZ: IC205
or CDX1135QZ



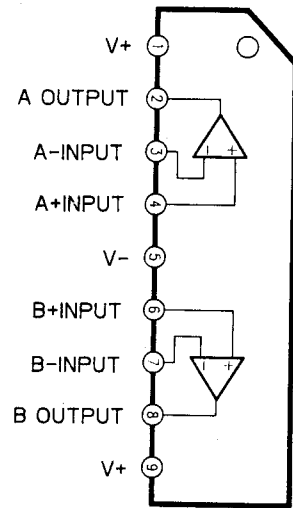
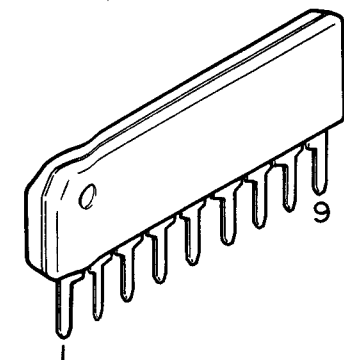
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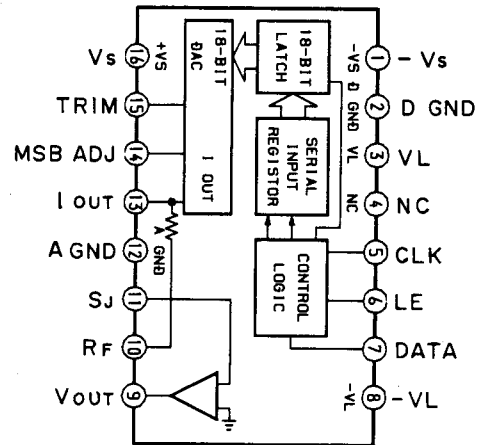
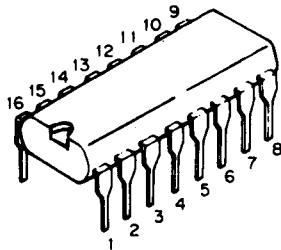
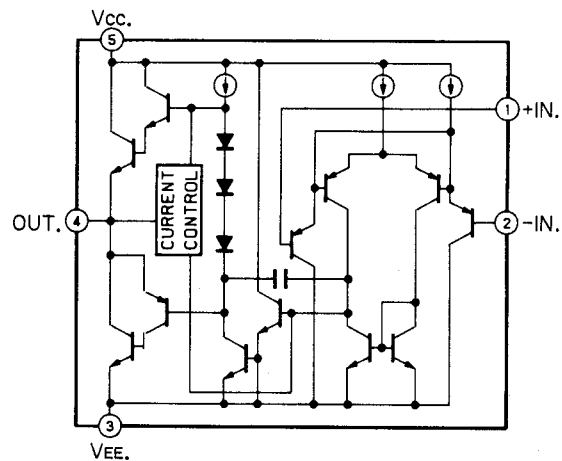
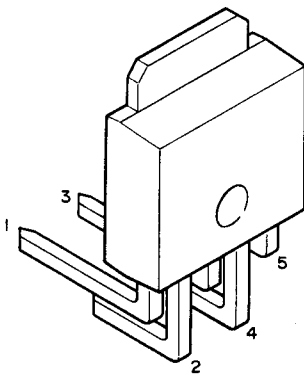
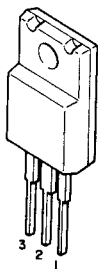


SM5813AP: IC209

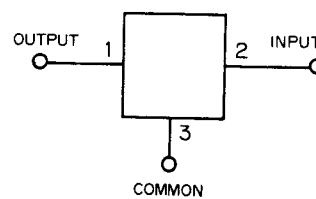


NJM2903S: IC210

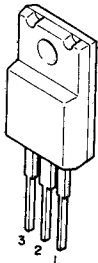


AD1860: IC211 or IC212**LA6501LR: IC213, IC218****NJM7905FA: IC214 or 217**

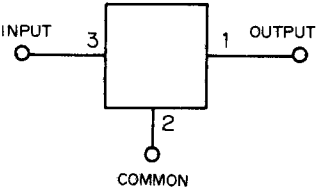
1: OUTPUT
2: INPUT
3: COMMON



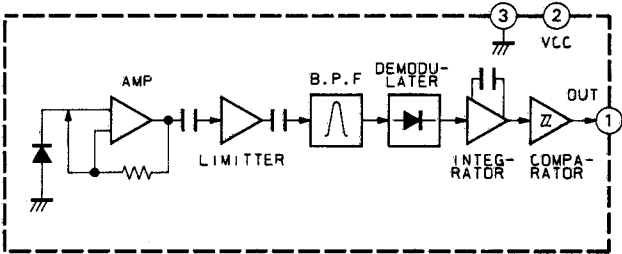
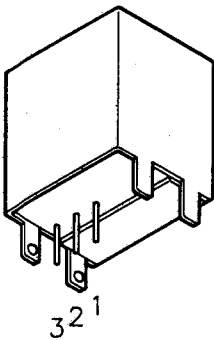
NJM7805FA: IC216



1: OUTPUT
2: COMMON
3: INPUT



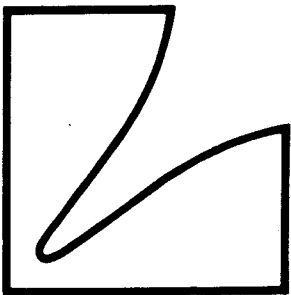
**GP1U521: IC501
or GP1U521X**





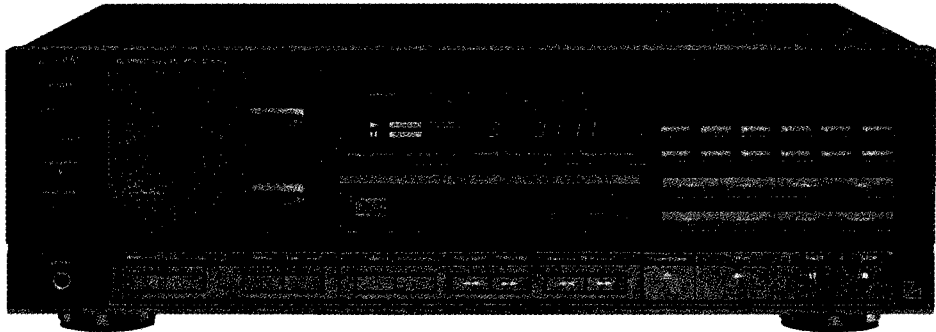
V11325

SERVICE MANUAL



Compact Disc Player

D-105U



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Note : ● : For Japanese model only (JA)
 ▲ : For General Foreign model only (EK)
 Others : Common

◆ : For American model only (UZ)
 ■ : For West German model only (AD)
 ◇ : For Canadian model only (UQ)
 □ : For England model only (AG)

Specifications

CD SECTION

Systems	Optical (Compact Disc System)
Quantizing Bit Number	16 Bit Linear System
Channels	2 Channels, Stereo
Pick-up	Semiconductor Laser Pick-up
Output Voltage	$2.1V \pm 1dB$
Frequency Response	$5 \sim 20kHz \pm 1.6dB$
T.H.D (1KHz)	0.12%
S/N Ratio	96dB
Dynamic Range	87dB
Separation (1KHz)	82dB
Head-phone Output Voltage (1kHz, 10dB/8ohm)	$130mV \pm 1dB$
Power Supply	AC100V, 50/60Hz (JA Model Only) AC120/220/240V, 50Hz (EK/AD/AG Model Only) AC120V, 60Hz (UZ/UQ Model Only)
Power Consumption	25W
Semiconductors	25IC's, 26 Transistors, 40 Diodes, 2 Zener Diodes, 2 Vacume Tubes (AD/UZ/AG/UQ Model Only) 25IC's, 26 Transistors, 39 Diodes, 2 Zener Diodes, 2 Vacume Tubes (JA/EK Model Only)
Dimension (W×H×D)	438×147×342mm
Weight	8.5kg

COMPACT DISC

Track Pitch	$1.6\mu m$
Modulation Frequency	44.1MHz
Transfer Rate	4.3218MBit/sec
Dimension	120×1.2mm

Parts Locations and Disassembly Instructions

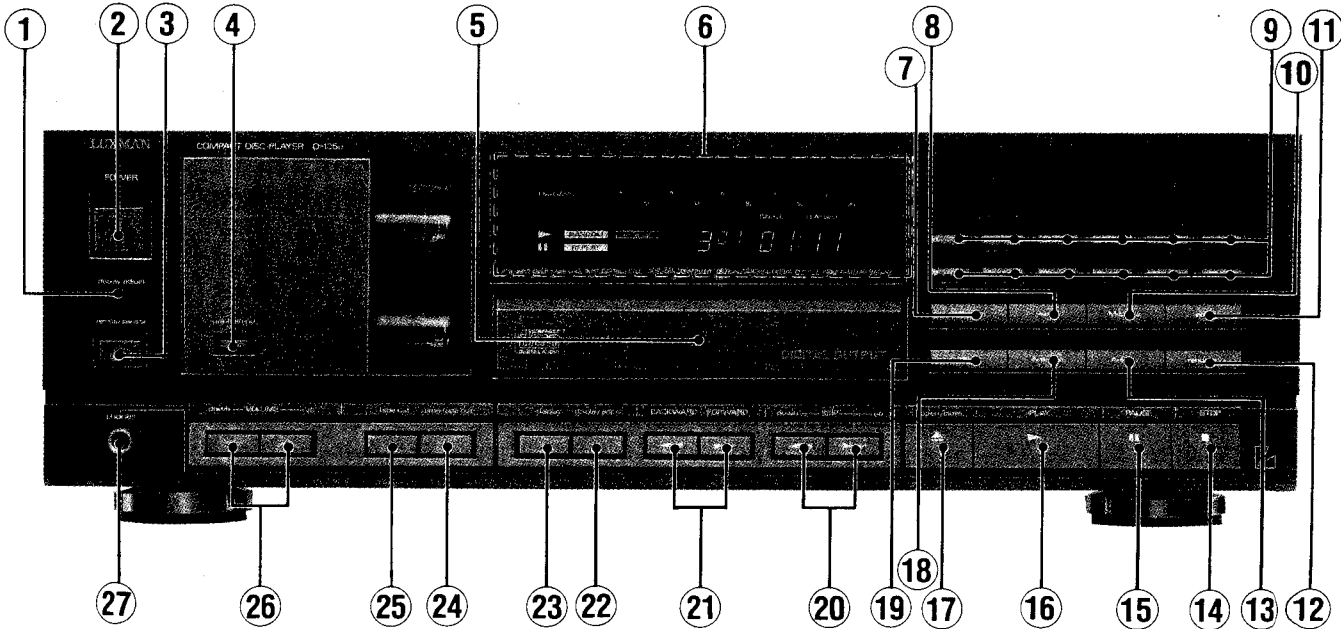


Figure 1 < 1 図 >

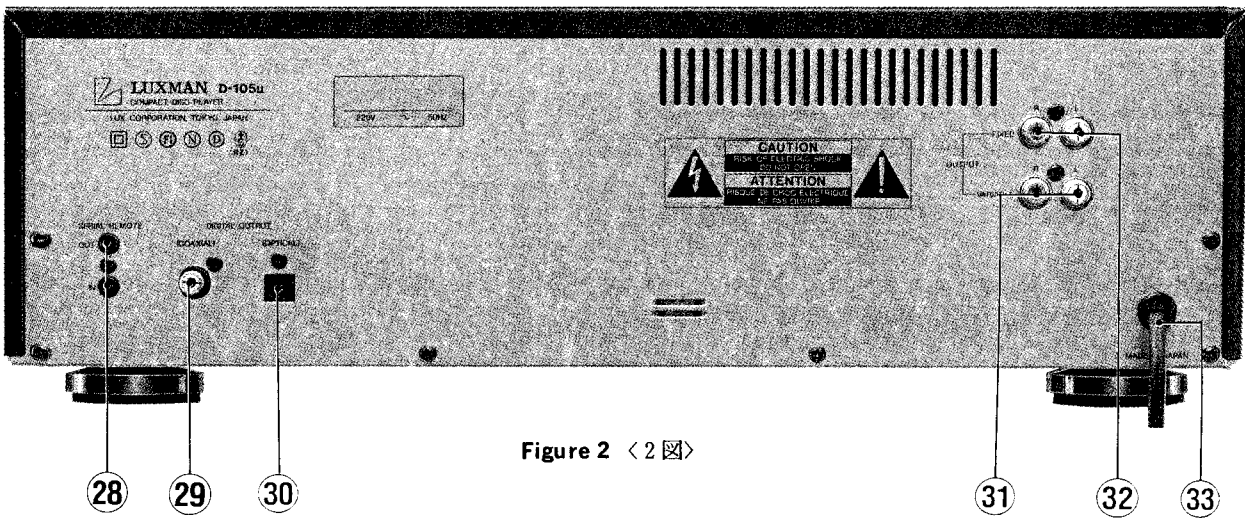


Figure 2 < 2 図 >

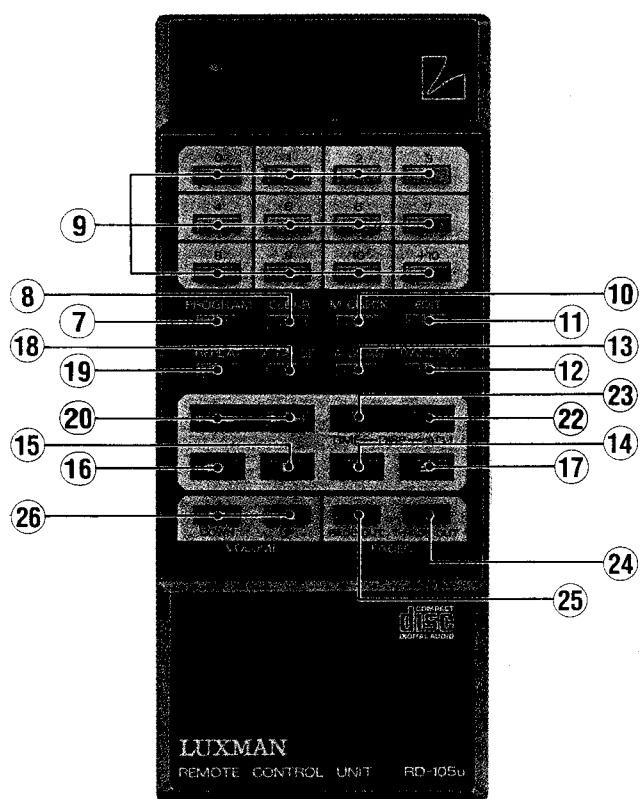


Figure 3 < 3 図 >

- ① "display adjust" indicator
- ② POWER button
- ③ "remote sensor"
- ④ "pre-heating" button
- ⑤ Disc tray
- ⑥ Display
- ⑦ "program" button
- ⑧ "clear" button
- ⑨ Number buttons (0 to 10 and +10)
- ⑩ "M-Check" (memory check button)
- ⑪ "edit" button
- ⑫ "random" button
- ⑬ "A-Scan" (auto scan) button
- ⑭ STOP button (■)
- ⑮ PAUSE button (II)
- ⑯ PLAY button (▶)
- ⑰ "open/close" button
- ⑱ "A-pause" (auto pause) button
- ⑲ "repeat" button
- ⑳ SKIPUP/SKIP DOWN buttons (▶▶/◀◀)
- ㉑ FORWARD/BACKWARD buttons (▶▶/◀◀)
- ㉒ DISPLAY ADJUST button
- ㉓ "T-display" button
- ㉔ TIME FADE-OUT button
- ㉕ FADE-OUT button
- ㉖ VOLUME "up/down" buttons (▲ ▼)
- ㉗ "phones" jack
- ㉘ SERIAL REMOTE IN/OUT jacks
- ㉙ DIGITAL OUTPUT (COAX.) jack
- ㉚ DIGITAL OUTPUT (OPT.) jack
- ㉛ VARIABLE OUTPUT R/L jack
- ㉜ FIXED OUTPUT R/L jack
- ㉝ Power cord

<Cabinet of Section>

1. Removal of Top Cover

- (1) Remove ten screws marked "●" as shown Figure 4.
- (2) Pull out the top cover in the direction of the arrow as shown in Figure 4.

1. 上蓋の外し方

- (1) 10本のネジ"●"を外します。(4図参照)
- (2) 上蓋を矢印の方向に引き上げて外します。(4図参照)

2. Removal of the Front Panel

- (1) After removing the Top Cover, open the Disk Tray and pull the Tray Panel in the direction as shown in Figure 5.
- (2) Remove the Power switch knob as shown in Figure 5.
- (3) Remove the solder (A) as shown in Figure 6.
Note: Be careful not to damage the parallel wires (29P) when removing the solder (A).
- (4) Remove the three screws marked "○" as shown in Figure 7.
- (5) Remove the hook (A) located in the two places as shown in Figure 6.
- (6) Disconnect all wires connected to the following P.C. Boards: FL/Keyboard P.C. Board, Tube P.C. Board (1)/(2), Remote P.C. Board, Pre-Heat SW. P.C. Board, Head-Phone Jack P.C. Board.
- (7) The Front Panel can now be removed with the following P.C. Boards in place: FL/Keyboard P.C. Board, Tube P.C. Board (1)/(2), Remote P.C. Board, Pre-Heat SW. P.C. Board, Head-Phone Jack P.C. Board, Fade P.C. Board.

2. フロントパネルの外し方

- (1) 上蓋を外した後、ディスクトレイをオープンし、トレイパネルを矢印の方向に外します。(5図参照)
- (2) パワースイッチつまみを外します。(5図参照)
- (3) 半田(A)を外します。(6図参照)
注) 半田(A)を外す際、パラレルワイヤー (29P) が損傷し易いので十分注意して下さい。
- (4) 3本のネジ (○印) を外します。(7図参照)
- (5) 2箇所のフック(A)を外します。(6図参照)
- (6) FL/Key Board 基板・Tube 基板(1)/(2)・Remote 基板・Pre-Heat SW 基板・Head-Phone Jack 基板以上の基板からつながる全てのワイヤーを外します。
- (7) 以上でフロントパネルは FL/Key Board 基板 Tube 基板(1)/(2)・Remote 基板・Pre-Heat SW 基板・Head-Phone Jack 基板・Fade 基板の各基板が付いた状態で外すことができます。

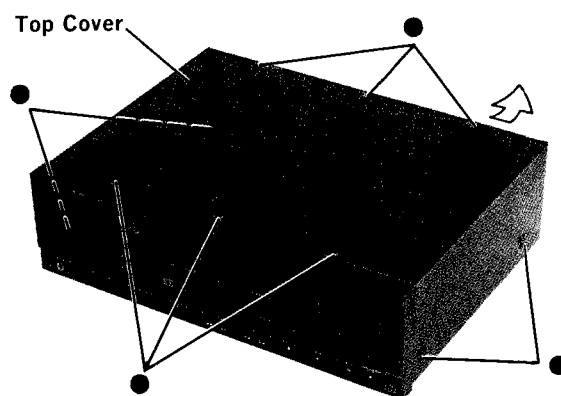


Figure 4 <4図>

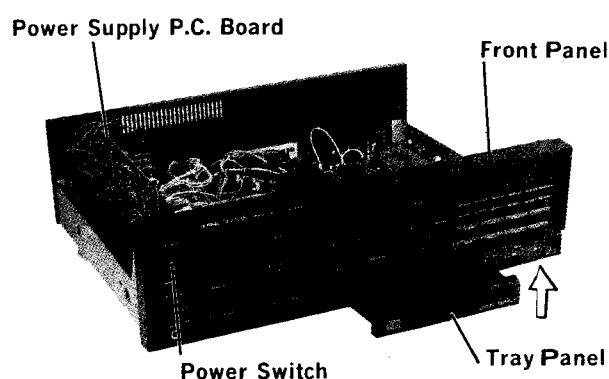


Figure 5 <5図>

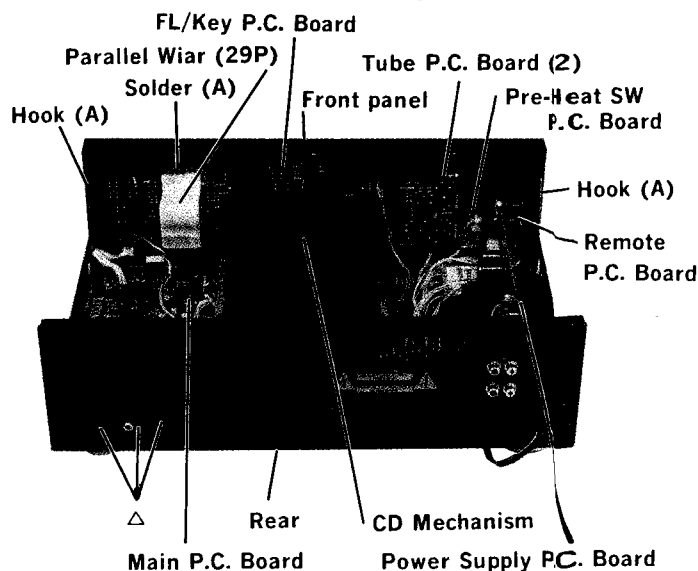


Figure 6 <6図>

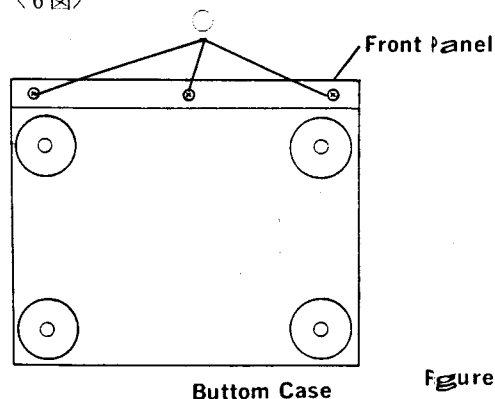


Figure 7 <7図>

3. Removal of the CD mechanism

- (1) After removing the Front Panel remove the five screws marked "X" as shown in Figure 8.
- (2) Disconnect all wires connected to the CD mechanism.
- (3) the CD mechanism can now be removed.

3. CD メカニズムの外し方

- (1) フロントパネルを外した後、5本のネジ(×印)を外します。(8図参照)
- (2) CDメカニズムにつながる全てのワイヤーを外します。
- (3) 以上でCDメカニズムは外れます。

4. Removal of the Main P.C. Board

- (1) After removing the Top Cover, remove the seven screws marked "△" as shown in Figures 6 and 8.
- (2) Hold down on "A" (see Fig. 9) and remove P.C. Board support (C) as shown in Figure 8.
- (3) Disconnect all wires connected to the Main P.C. Board.
- (4) The Main P.C. Board can now be removed.

4. MAIN 基板の外し方

- (1) 上蓋を外した後、7本のネジ(△印)を外します。(6, 8図参照)
- (2) A部を押しながら(9図参照)基板サポート(C)を外します。(8図参照)
- (3) MAIN基板につながる全てのワイヤーを外します。
- (4) 以上でMAIN基板は外れます。

5. Removal of the FL/Keyboard P.C. Board

- (1) After removing the Front Panel, remove the two screws marked "☆" as in Figure 10.
- (2) Remove the hook (D) in the fifteen places as shown in Figure 10.
- (3) Disconnect the 6P connector connected to the Fade P.C. Board.
- (4) The FL/Keyboard P.C. Board can now be removed.

5. FL/Keyboard 基板の外し方

- (1) フロントパネルを外した後2本のネジ(☆印)を外します。(10図参照)
- (2) 15箇所のフック(D)を外します。(10図参照)
- (3) Fade基板につながる1つのコネクタ(6P)を外します。
- (4) 以上でFL/Keyboard基板は外れます。

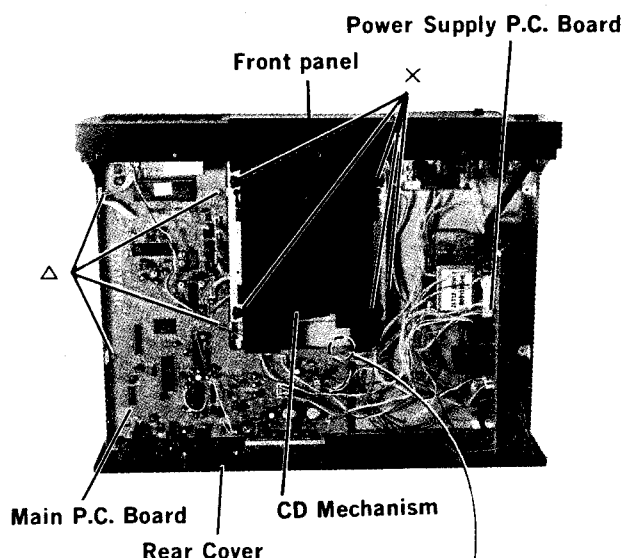


Figure 8 <8図>

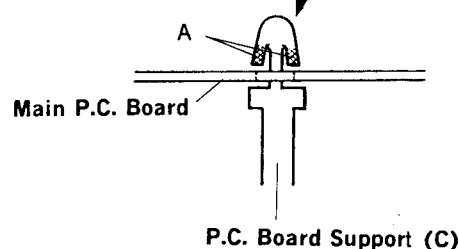


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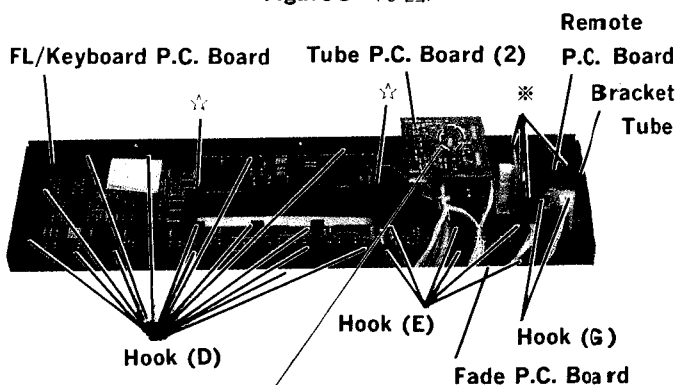


Figure 10 <10図>

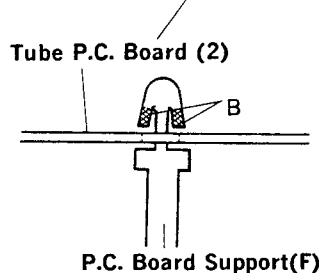


Figure 11 <11図>

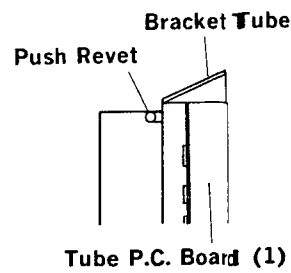


Figure 12 <12図>

6. Removal of the Fade P.C. Board

- (1) After removing the Front Panel, remove the hook (E) in the six places as shown in Figure 10.
- (2) Disconnect the 6P connector connected to the FL/Keyboard P.C. Board.
- (3) The Fade P.C. Board can now be removed.

6. Fade 基板の外し方

- (1) フロントパネルを外した後、6箇所のフック(E)を外します。(10図参照)
- (2) FL/Keyboard 基板につながる1つのコネクタ (6P) を外します。
- (3) 以上で Fade 基板は外れます。

7. Removal of the Tube P.C. Board (2)

- (1) After removing the Front Panel, hold down on "B" (see Fig. 11) and remove the P.C. Board support (F) as shown in Figure 10.
- (2) Disconnect the two 6P connectors connected to the Tube P.C. Board (2).
- (3) The Tube P.C. Board (2) can now be removed.

7. Tube 基板(2)の外し方

- (1) フロントパネルを外した後、B部分を押しながら(11図参照) 基板サポート(F)を外します。(10図参照)
- (2) Tube 基板(1)につながる2つのコネクタ (それぞれ6P) を引き抜きます。
- (3) 以上で Tube 基板(2)は外れます。

8. Removal of the Tube P.C. Board (1)

- (1) After removing the Front Panel and Tube P.C. Board (2), remove the four screws marked "*" and the Tube retainer as shown in Figure 10.
- (2) Remove the Push rivet shown in Figure 12.
- (3) The Tube P.C. Board (1) can now be removed.

8. Tube 基板(1)の外し方

- (1) フロントパネルと Tube 基板(2)を外した後、4本のネジ(※印)を外し、チューブ取付金具を外します。(10図参照)
- (2) 1個のプッシュリベットを外します。(12図参照)
- (3) 以上で Tube 基板(1)は外れます。

9. Removal of the Remote P.C. Board

- (1) After removing the Tube retainer, remove the hook (G) in the two places as shown in Figure 10.
- (2) The Remote P.C. Board can now be removed.

9. Remote 基板の外し方

- (1) チューブ取付金具を外した後、2箇所のフック(G)を外します。(10図参照)
- (2) 以上で Remote 基板は外れます。

<CD Mechanism Section>

1. Removal of Disc Tray

- (1) Pull out the disc tray in the arrow direction by pressing slant position of the disc tray as shown in Figures 13 and 14.
- (2) After disengaging one claw (A), remove the switch arm as shown in Figure 15.
- (3) Spread two claws (B) toward outside at the both sides of the disc tray and draw out the disc tray as shown in Figure 14.

1. ディスクトレイの外し方

- (1) ディスクトレイの斜線部分を押し、ディスクトレイを矢印方向に引き出す。(13, 14図参照)
- (2) 爪(A)を外し、スイッチアームを外します。(15図参照)
- (3) ディスクトレイ両サイドの爪(B)を両外側に押し広げてディスクトレイを引き抜きます。(14図参照)

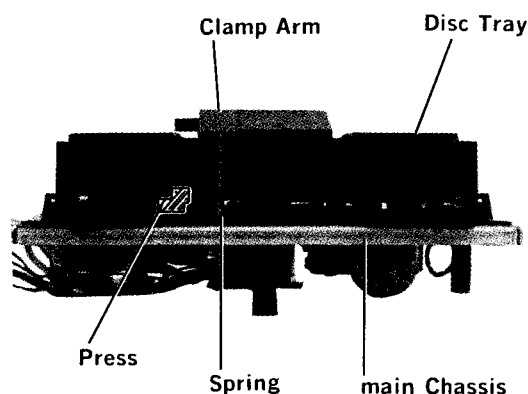


Figure 13 <13図>

2. Removal of Clamp Arm

- (1) Remove one spring between the main chassis and the clamp arm as shown in Figure 13.
- (2) After pulling out the disc tray frontward, remove the clamp arm by pressing one claw (C) as shown in Figure 14.

2. クランプアームの外し方

- (1) メインシャーシとクランプアームとを止めているバネを外します。(13図参照)
- (2) ディスクトレイを前面に引き出した後爪(C)を押しながらクランプアームを外します。(14図参照)

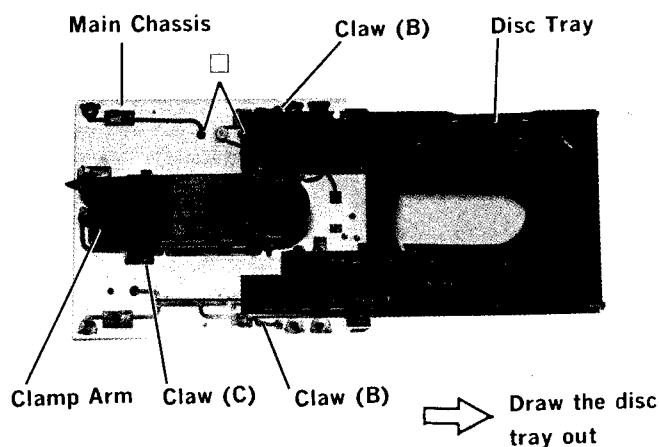


Figure 14 <14図>

3. Removal of Optical Pick-up Arm

- (1) After removing three screws marked "○", remove the sub-chassis as shown in Figure 15.

Note: When three screws are removed, three springs (one is black) appear under the damper bush. When assembling the sub-chassis put the black spring into the place marked "☆".

- (2) While pressing two claws (D) in toward pull out two shafts in the arrow direction as shown in Figure 17.

3. 光学系ピックアップの外し方

- (1) 3本のネジ (○印) を外し、サブシャーシを外します。

注意) 3本のネジを外すとそれぞれのダンパーブッシュの下に3本のバネ (内1本が黒色) があります。サブシャーシ取り付け時には、黒色バネを"☆"色の部分に入れて取り付けして下さい。

(15図参照)

- (2) 2ヶ所の爪(D)を両方共に内側に押しながら、2本のシャフトを矢印の方向に引き抜きます。(17図参照)

4. Removal of Spindle Motor

- (1) By grasping plastic part, lift the disc table straight up without applying pressure to metal part.

Note: For assembling the disc table, insert the disc table with pressure so that the height from the disc table top to the sub-chassis surface becomes $19.9 \pm 0.1\text{mm}$ as shown in Figure 18.

- (2) Remove two screws marked "X" as shown in Figure 17.

4. スピンドルモーターの外し方

- (1) ディスクテーブルを金属部分に負荷をかけないで樹脂の部分をつかみまっすぐ上に引き抜きます。

注意) ディスクテーブルの組立て時、サブシャーシ上面からディスクテーブルの上面までの高さ $19.9 \pm 0.1\text{mm}$ の位置に圧入して下さい。(18図参照)

- (2) 2本のネジ (×印) を外します。(17図参照)

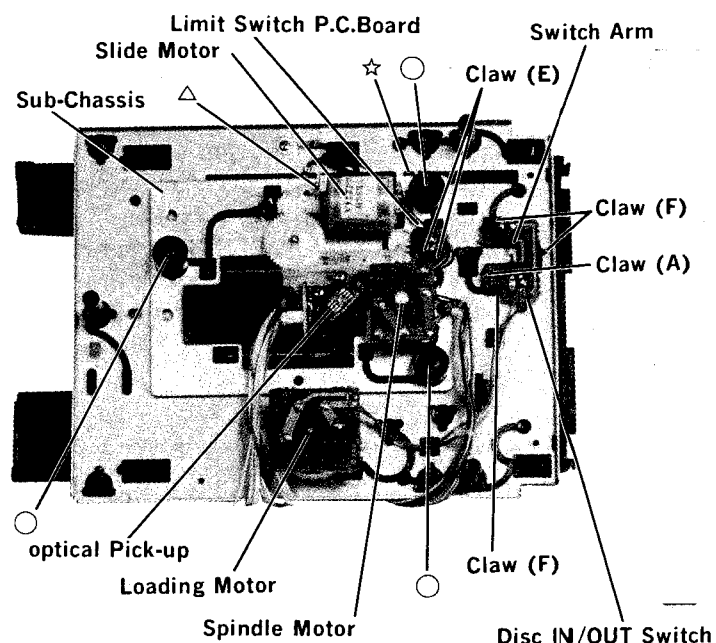


Figure 15 <15図>

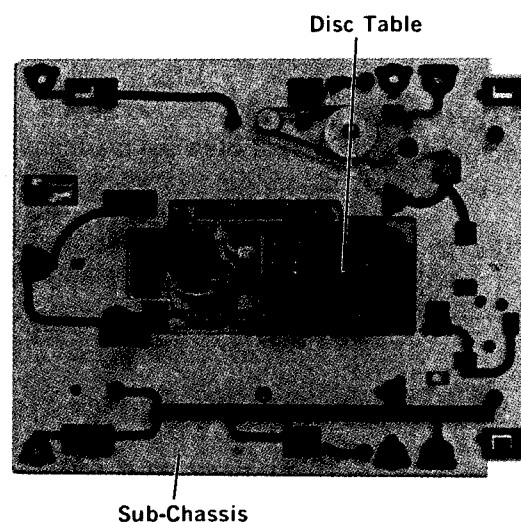


Figure 16 <16図>

5. Removal of Slide Motor

- (1) Remove one screw marked "△" and lift up the motor as shown in Figure 15.

5. スライドモーターの外し方

- (1) 1本のネジ(△印)を外し、上に持ち上げます。(15図参照)

6. Removal of Loading Motor

- (1) Remove one belt and two screws marked "□" as shown in Figure 14.

6. ローディングモーターの外し方

- (1) ベルトを外し、2本のネジ(□印)を外します。(14図参照)

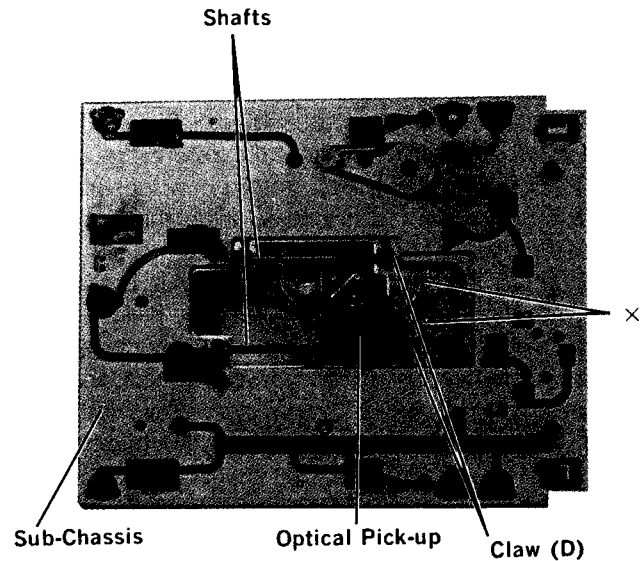


Figure 17 <17図>

7. Removal of Limit Switch P.C. Board

- (1) Remove two claws marked "E" as shown in Figure 15.

7. リミットスイッチ基板の外し方

- (1) 2ヶ所の爪(E)を外します。(15図参照)

8. Removal of Disc IN/OUT Switch P.C. Board

- (1) Remove three claws marked "F" as shown in Figure 15.

8. ディスク IN/OUT スイッチ基板の外し方

- (1) 3ヶ所の爪(F)を外します。(15図参照)

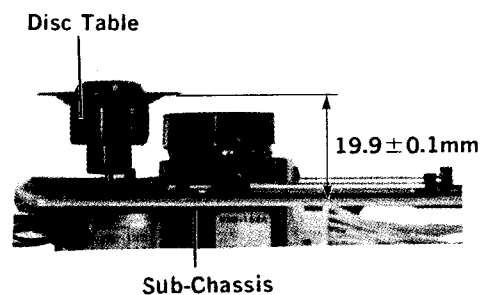


Figure 18 <18図>

〈Service Notes〉

1. Notes on Laser Diode Emission and Focus Search Operation Check

(1) Caution when checking Laser Diode emission.

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30cm away from the objective lens.

(2) Check of the Laser Diode And Focus Search Operation

With no disc loaded and the disc tray closed, when switching the power on, check that the operation as shown in the below Figure 19 is performed, by observing the objective lens.

- ①Optical pick-up moves in outer-circle and inner-circle directions.
- ②Laser beam emits spreadingly.
- ③The objective lens perform up-and-down three times.

1. レーザーダイオードおよびフォーカスサーチ動作の確認

(1) レーザーダイオードの発光確認時の注意

本機のレーザー光は、光学系ピックアップ内の対物レンズによってディスクの反射面上に焦点を結ぶように集光されています。したがって、レーザーダイオードの発光を確認する時は、対物レンズより30cm以上目を離して下さい。

(2) レーザーダイオードおよびフォーカスサーチ動作のチェック方法

ディスクを入れないでディスクトレイが閉じた状態から、POWERスイッチをONさせた時、対物レンズおよび光学系ピックアップを見て、下記の様な動作が行なわれるか確認する。(19図参照)

- ①光学系ピックアップが外周方向に動き、また内周方向に動く。
- ②レーザー光の拡散した、赤い色の光が見える。
- ③対物レンズの上下運動。(3回)

Remove the Clamp Arm

(See Disassembly Instruction of Clamp Arm)

クランプアームを取り除く

(クランプアームの分解方法の項参照)

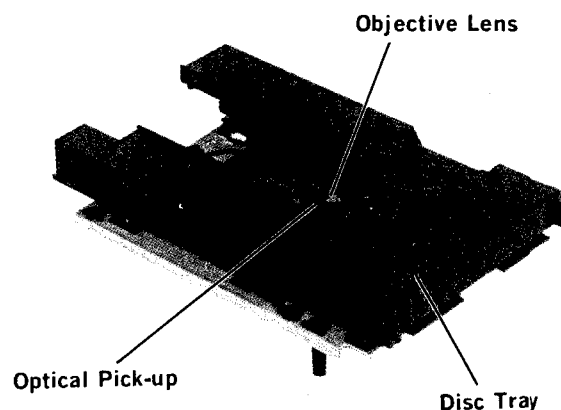


Figure 19 <19図>

2. Caution For Electrostatic Breakdown

[Notes on Handling The Base Unit (KSS-152A)]

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc., on clothing and the human body.

The following notes are examples for reference purposes :

- ① Perform repair with ground ring on the hands and a conductive gum mat.
- ② Grasp the slide base when handling.
- ③ When removing the pick-up arm shortcircuit by soldering as shown in the Figure 20 below and then remove the connector.
- ④ When mounting the pick-up arm, after inserting the connector, remove the soldered short-circuiting.

Notes: For making and removing the short-circuit, be sure to use an iron with its metal part grounded or its insulation resistance is higher than 10M ohms (DC 500V), and the tip temperature is lower than 320°C. The soldering and desoldering should be made quickly.

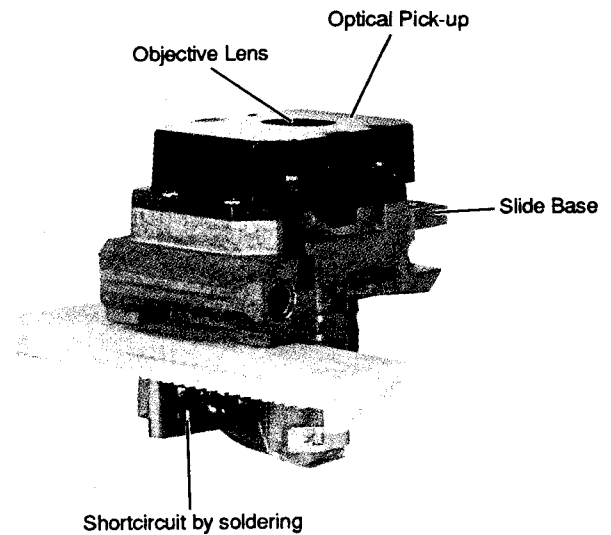


Figure 20 <20図>

2. 静電破壊についての注意

[KSS-152A (光学系ピックアップ) 取扱時の注意]

光学系ピックアップ内のレーザーダイオードは、衣服や人体に帯電した静電荷等で電位差を生じることにより、静電破壊することがあります。静電破壊に対する注意として下記のこと十分に注意して取扱ってください。

- ① 取扱い時には、人体アースおよびアースマットを用いて接地してから作業を行ってください。
- ② 取扱いは、スライドベースを持って行って下さい。
- ③ 取りはずす時、20図のように半田ショートさせてから、コネクターを外して下さい。
- ④ 取付け時、コネクターを差し込んだ後、半田ショートの部分を開放して下さい。

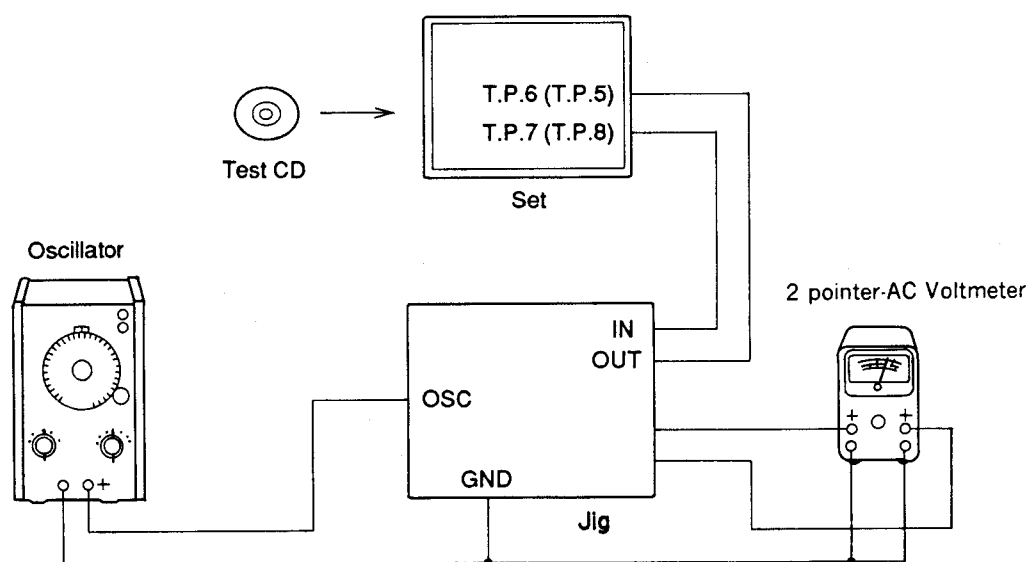
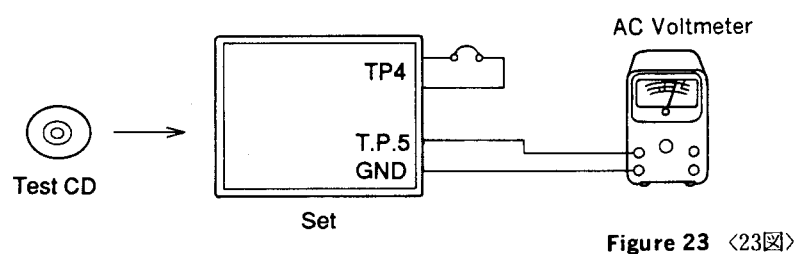
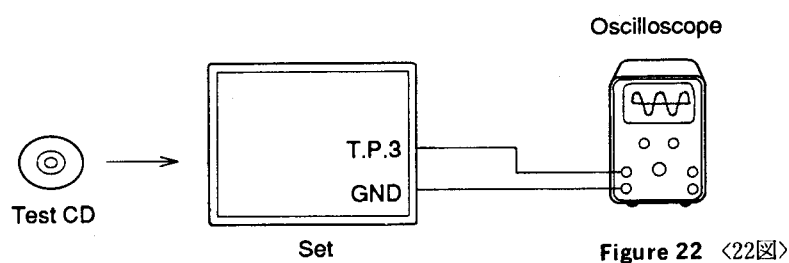
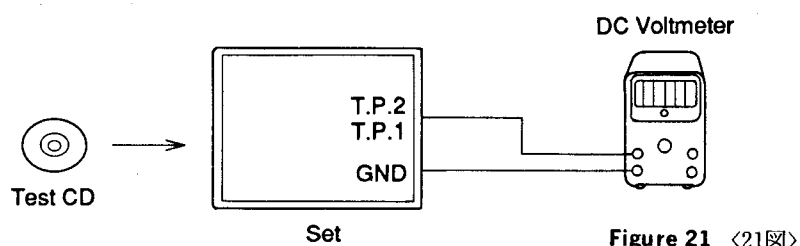
注意) 半田ショートおよび開放時には、金属部分を接地させた半田ゴテか、もしくは通電5分後の絶縁抵抗が10MΩ以上(DC500V)のもので、コテ先温度が320°C以下の半田ゴテを使用してすみやかに行ってください。

Adjustment Procedures

1. Compact Disc Section

(1) Connections

(1) 接続図



(2) Control Settings

Power SwitchON
 Play SwitchON
 OthersOFF

(3) Test CD

Use the 2nd trak on the SONY YEDS-18 CD
 or A-BEX TCD-782 CD.

(4) Adjustment Procedures

Step	Description	Connections	Oscillator	Test Point	Adjustment
1	VCO Adjustment	Figure 21	—	T.P.1 T.P.2	Take measurement of the voltage at the T.P.1. Then adjust VR202 so that the output voltage at the T.P.2 becomes 1/2 of the voltage at the T.P.1.
2	Focus Bias Adjustment	Figure 22	—	T.P.3	Adjust VR201 so that the waveform of output at the T.P.3 becomes maximum as shown on Fig. 25.
3	Tracking Error Balance Adjustment	Figure 23	—	T.P.4 T.P.5 T.P.6	After shortcircuiting between T.P.4 and T.P.5 and turning VR204 fully counter-clockwise, adjust VR203 so that the voltage is $0V \pm 50mV$. After the adjustment set VR204 to its center position.
4	Tracking Gain Adjustment	Figure 24	1kHz 100mV	T.P.6 T.P.7	Adjust VR204 so that both arms of the voltmeter come at the same position.
5	Focus Gain Adjustment	Figure 24	1kHz 100mV	T.P.8 T.P.9	Adjust VR205 so that both arms of the voltmeter come at the same position.

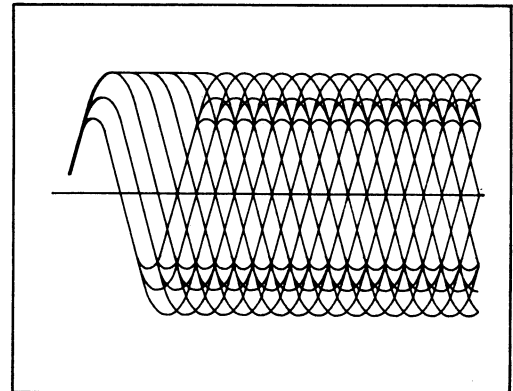


Figure 25 <25図>

(2) スイッチ類のセット位置

電源スイッチON
 プレイスイッチON
 その他のスイッチOFF

(3) 使用テスト CD

SONY YEDS-18 (2 曲目) 又は, A-BEX TCD-782 (2 曲目)。

(4) 調整方法

順序	調整項目	接続図	オシレーター	テストポイント	調整方法
1	VCO 調整	21図	—	T.P.1 T.P.2	T.P.1の電圧を測定します。次に T.P.2の出力電圧が T.P.1の電圧の1/2になる様に VR202で調整します。
2	フォーカス バイアス調整	22図	—	T.P.3	T.P.3の出力が波形が25図の様に最大になる様に VR201で調整します。
3	トラッキングエラー バランス調整	23図	—	T.P.4 T.P.5 T.P.6	T.P.4, T.P.5の間をショートして VR204を反時計方向にしぼりきり, T.P.6の出力電圧が $0V \pm 50mV$ になる様に VR203で調整します。調整後, VR204を中央付近にもどす事。
4	トラッキング ゲイン調整	24図	1kHz 100mV	T.P.6 T.P.7	2針 AC 電圧計の針が重なる様に VR204で調整します。
5	フォーカス ゲイン調整	24図	1kHz 100mV	T.P.8 T.P.9	2針 AC 電圧計の針が重なる様に VR205で調整します。

Adjustment Location

Main P.C. Board (Component Side) AD/UZ/AG/UQ model

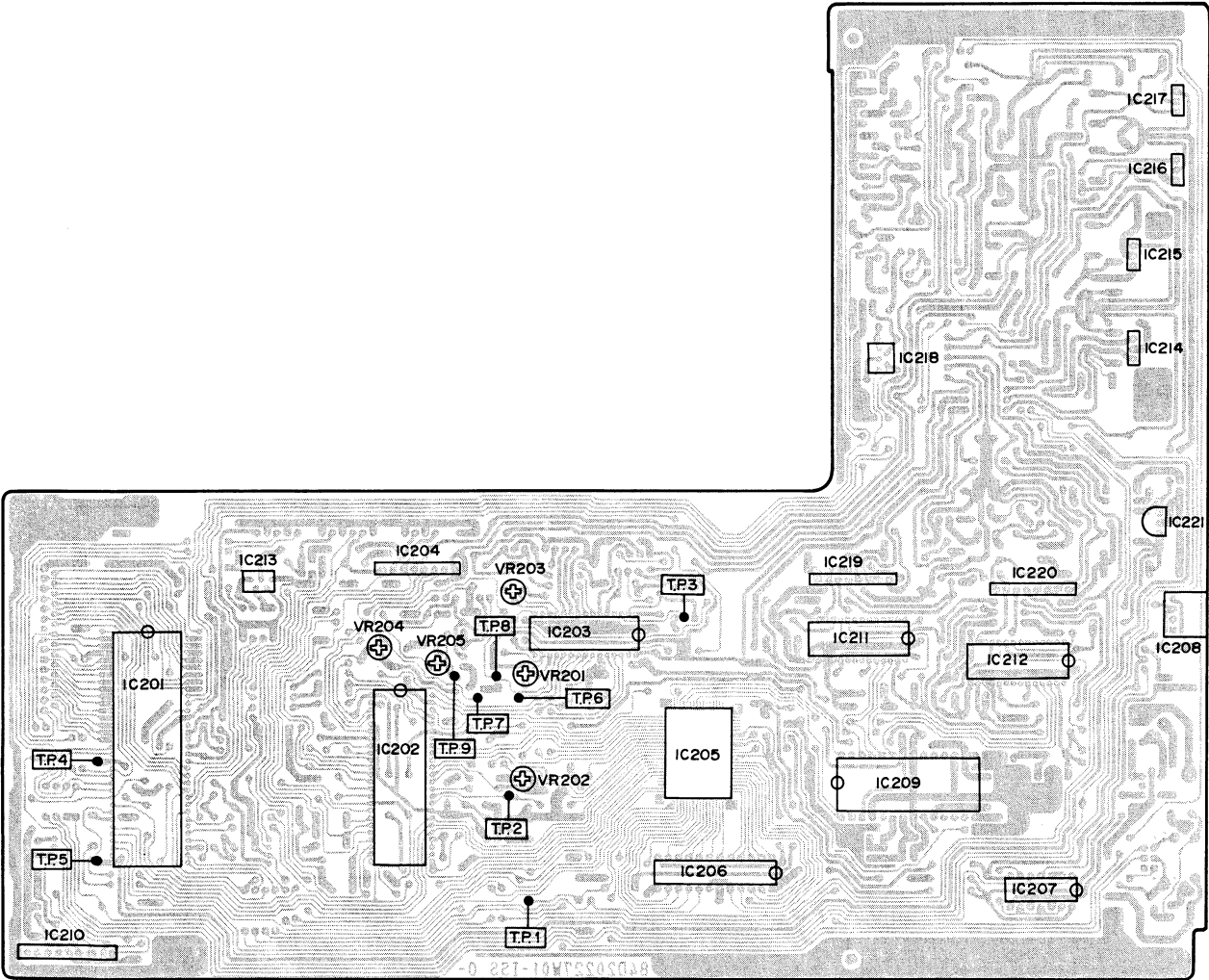


Figure 26 <26図>

Main P.C. Board (Component Side) JA/EK model

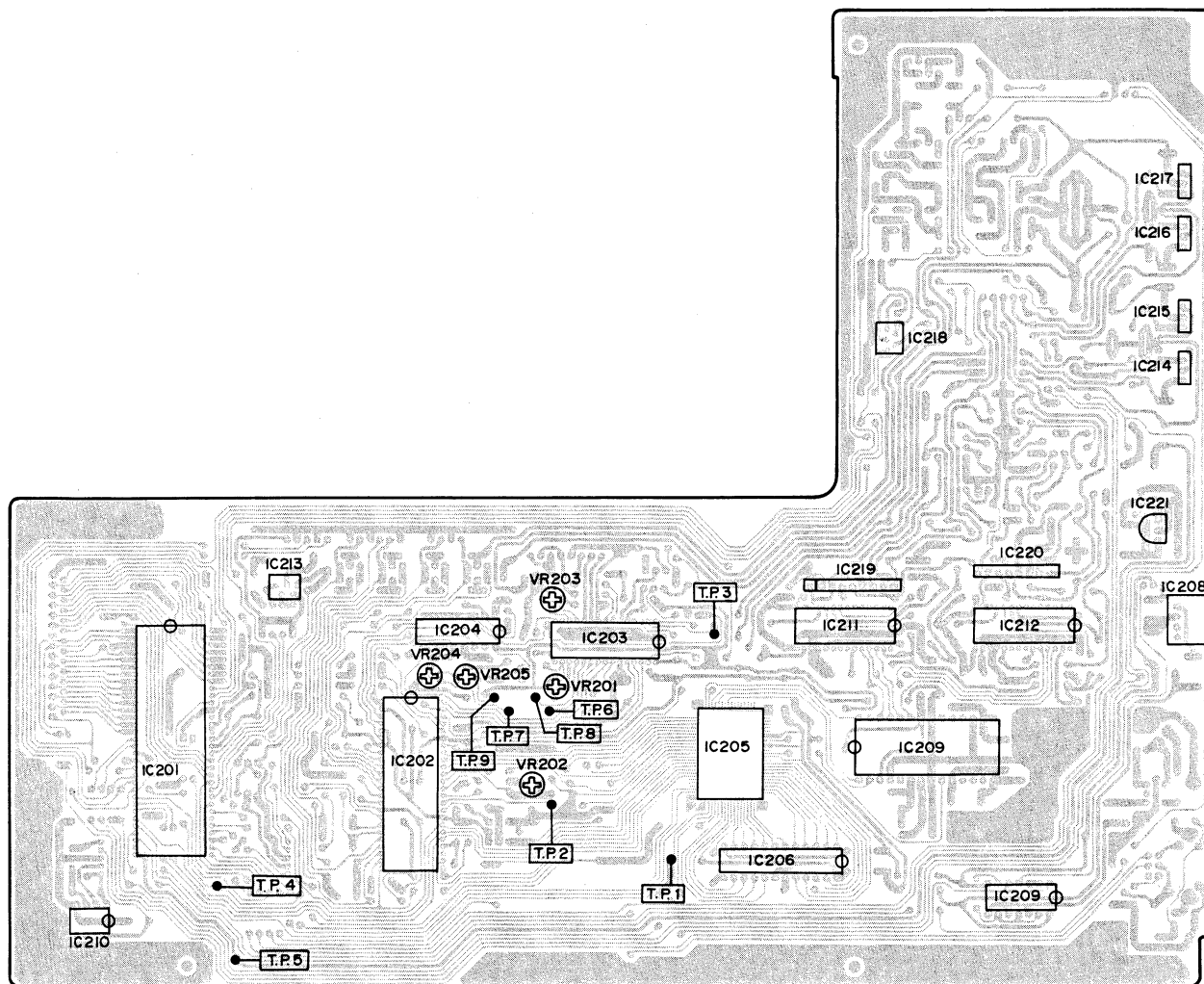
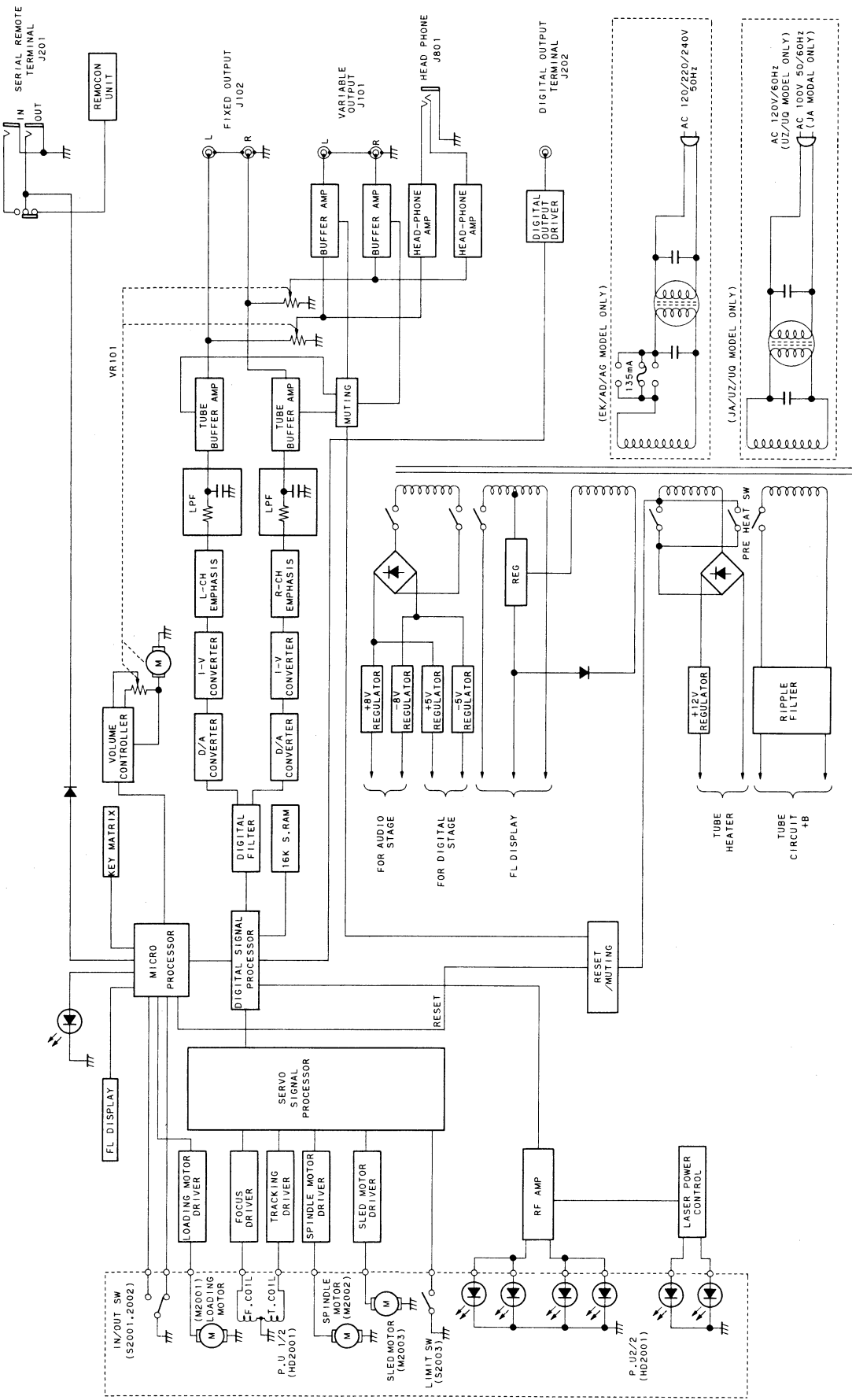


Figure 27 <27図>

Block Diagram



Schematic Diagram <D-105U AD/UZ/AG/UQ>(1/2)

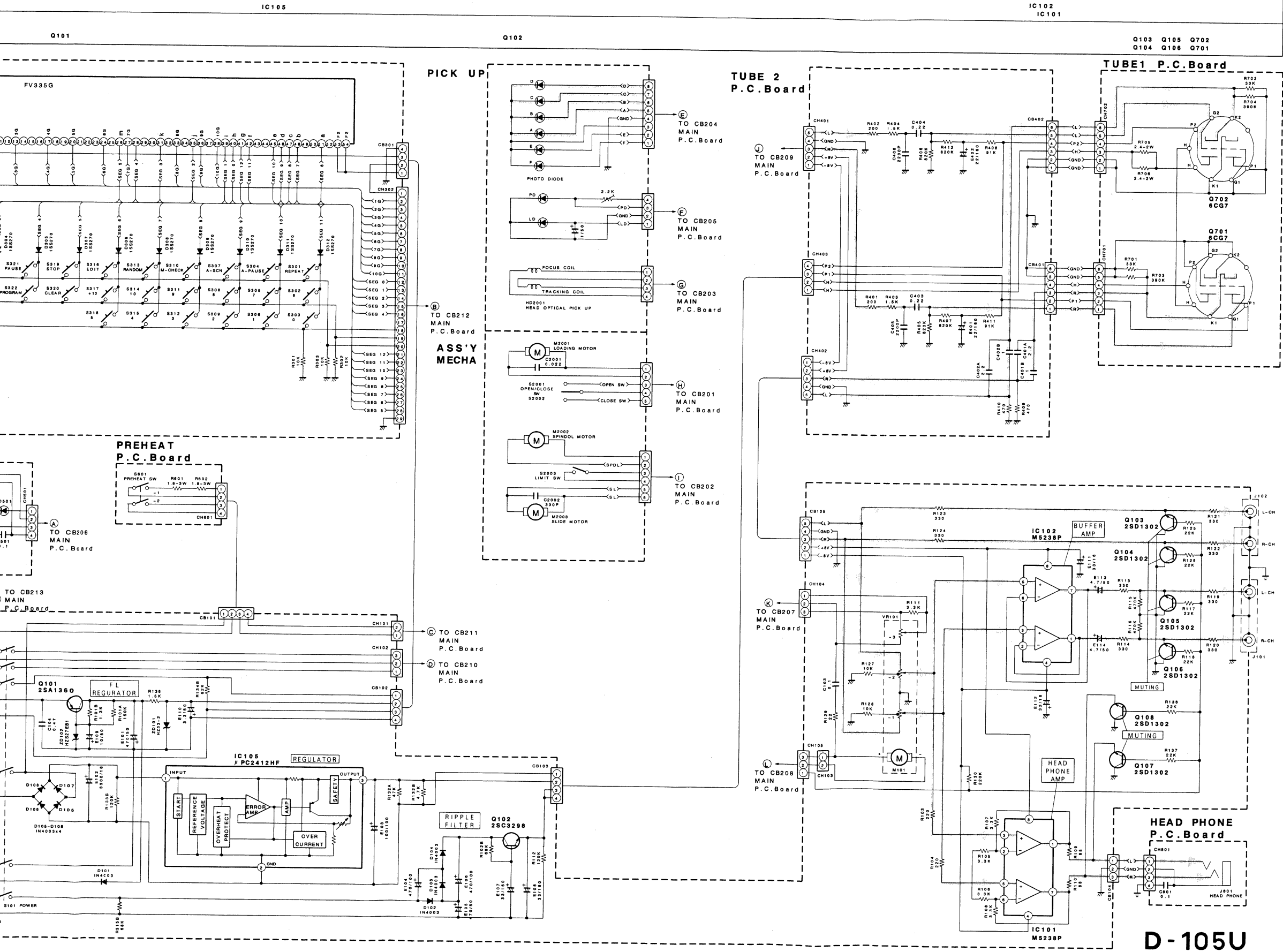
NOTE
1. All resistance values are in ohms. K=1,000 M=1,000,000
2. All capacitance values are in microfarads. P=1,000,000

Voltage Measuring Conditions
1. Power Supply Voltage : AC120V./220V./240V.50Hz(AD/AG model only)
 : AC120V.60Hz(UZ/UQ model only)
2. Measuring Meter : Digital Multimeter
3. Measuring Point Reference : Between Ground
4. Measuring Conditions : NO Signal Input
 : AT Play Mode Test CD
 (Use the 2nd track on the YED-18)

IC201	1 -29.3V 33 5V	IC204	1 11.2V	IC203	1 0V	IC206	1 2.5V
2 -22.6V 34 1.4V	2 0.6V	2 0.6V	2 1.1V	2 1.1V	2 2.5V	2 2.5V	
3 -27V 35 4.9V	3 0V	3 0V	3 0V	3 0V	3 2.4V	3 2.4V	
4 -27V 36 0V	4 0V	4 0V	4 2.5V	4 2.5V	4 2.4V	4 2.4V	
5 -22.5V 37 4.8V	5 -12V	5 -12V	5 2.8V	5 2.8V	5 2.4V	5 2.4V	
6 -32.8V 38 -	6 0.6V	6 0.6V	6 -4.8V	6 -4.8V	6 2.4V	6 2.4V	
7 -32.8V 39 0V	7 0V	7 0V	7 0V	7 0V	7 2.4V	7 2.4V	
8 -32.8V 40 0V	8 0V	8 0V	8 0V	8 0V	8 2.4V	8 2.4V	
9 -32.8V 41 0V	9 0V	9 0V	9 0V	9 0V	9 1.9V	9 1.9V	
10 -32.8V 42 0V	10 0V	10 0V	10 0V	10 0V	10 1.9V	10 1.9V	
11 -32.8V 43 2.2V	11 0V	11 0V	11 0V	11 0V	11 1.9V	11 1.9V	
12 -32.8V 44 -19V	12 -0.6V	12 -0.6V	12 0V	12 0V	12 0V	12 0V	
13 -32.8V 45 -19.1V	13 -0.4V	13 -0.4V	13 0V	13 0V	13 1.9V	13 1.9V	
14 -32.8V 46 -18.7V	14 0V	14 0V	14 0V	14 0V	14 1.9V	14 1.9V	
15 -32.8V 47 0V	15 -2.2V	15 -2.2V	15 0V	15 0V	15 1.9V	15 1.9V	
16 0V 48 2.3V	16 -1.9V	16 -1.9V	16 1.9V	16 1.9V	16 1.9V	16 1.9V	
17 -7.6V 49 2.3V	17 -4.9V	17 -4.9V	17 2V	17 2V	17 2V	17 2V	
18 4.8V 50 0V	18 0V	18 0V	18 2.6V	18 2.6V	18 2.6V	18 2.6V	
19 -35.8V 51 0V	19 0V	19 0V	19 1.3	19 1.3	19 1.3	19 1.3	
20 -7.4V 52 -	20 2.4V	20 2.4V	20 0V	20 0V	20 2.6V	20 2.6V	
21 0V 53 5V	21 2.4V	21 2.4V	21 -4.8V	21 -4.8V	21 4.3V	21 4.3V	
22 5V 54 0V	22 2.4V	22 2.4V	22 0V	22 0V	22 2V	22 2V	
23 0.4V 55 0V	23 2.3V	23 2.3V	23 -1.7V	23 -1.7V	23 2.8V	23 2.8V	
24 5V 56 0V	24 2.4V	24 2.4V	24 -1.2V	24 -1.2V	24 4.9V	24 4.9V	
25 5V 57 -22.2V	25 0V	25 0V	25 0V	25 0V	25 1.2-3.5V	25 1.2-3.5V	
26 1.4V 58 -24.2V	26 2.4V	26 2.4V	26 2.4V	26 2.4V	26 2.4V	26 2.4V	
27 1.4V 59 -23.8V	27 2.4V	27 2.4V	27 2.4V	27 2.4V	27 2.4V	27 2.4V	
28 4.9V 60 -17.1V	28 2.4V	28 2.4V	28 4.9V	28 4.9V	28 2.6V	28 2.6V	
29 0V 61 -10.1V	29 2.4V	29 2.4V	29 0.2V	29 0.2V	3 -	3 -	
30 4.8V 62 -15.6V	30 2.4V	30 2.4V	30 4.9V	30 4.9V	4 -	4 -	
31 -	31 2.4V	31 2.4V					
32 5V 64 -29.8V	32 4.9V	32 4.9V					

IC205	1 0V 41 2.4V	IC105	1 15.7V 5.7V	IC214	1 5.7V	IC215	1 -4.9V	IC216	1 7.8V	IC217	1 -7.8V	IC221	1 5V
2 -4.8V 42 2.4V	2 2.5V 43 2.4V	2 0V 44 2.5V	2 0V 45 2.5V	2 2.4V 46 2.8V	2 4.9V 47 2V	2 0V 48 0V	2 0V 49 0V	2 0V 50 0V	2 0V 51 0V	2 0V 52 0V	2 0V 53 2.3V	2 0V 54 0V	
3 2.5V 43 2.4V	3 2.5V 44 2.5V	3 2.5V 45 2.5V	3 2.5V 46 2.8V	3 4.9V 47 2V	3 0V 48 0V	3 0V 49 0V	3 0V 50 0V	3 0V 51 0V	3 0V 52 0V	3 0V 53 2.3V	3 0V 54 0V	3 0V 55 0V	
4 2.7V 44 2.5V	4 2.7V 45 2.5V	4 2.7V 46 2.8V	4 4.9V 47 2V	4 0V 48 0V	4 0V 49 0V	4 0V 50 0V	4 0V 51 0V	4 0V 52 0V	4 0V 53 2.3V	4 0V 54 0V	4 0V 55 0V	4 0V 56 0V	
5 2.4V 45 2.5V	5 2.4V 46 2.8V	5 4.9V 47 2V	5 0V 48 0V	5 0V 49 0V	5 0V 50 0V	5 0V 51 0V	5 0V 52 0V	5 0V 53 2.3V	5 0V 54 0V	5 0V 55 0V	5 0V 56 0V	5 0V 57 4.9V	
6 2.4V 46 2.8V	6 4.9V 47 2V	6 0V 48 0V	6 0V 49 0V	6 0V 50 0V	6 0V 51 0V	6 0V 52 0V	6 0V 53 2.3V	6 0V 54 0V	6 0V 55 0V	6 0V 56 0V	6 0V 57 4.9V	6 0V 58 0V	
7 4.9V 47 2V	7 0V 48 0V	7 0V 49 0V	7 0V 50 0V	7 0V 51 0V	7 0V 52 0V	7 0V 53 2.3V	7 0V 54 0V	7 0V 55 0V	7 0V 56 0V	7 0V 57 4.9V	7 0V 58 0V	7 0V 59 0V	
8 2.4V 48 0V	8 0V 49 0V	8 0V 50 0V	8 0V 51 0V	8 0V 52 0V	8 0V 53 2.3V	8 0V 54 0V	8 0V 55 0V	8 0V 56 0V	8 0V 57 4.9V	8 0V 58 0V	8 0V 59 0V	8 0V 60 0V	
9 2.4V 49 4.3V	9 0V 50 2.6V	9 0V 51 0V	9 0V 52 0V	9 0V 53 2.3V	9 0V 54 0V	9 0V 55 0V	9 0V 56 0V	9 0V 57 4.9V	9 0V 58 0V	9 0V 59 0V	9 0V 60 0V	9 0V 61 0V	
10 0V 50 2.6V	10 0V 51 0V	10 0V 52 0V	10 0V 53 2.3V	10 0V 54 0V	10 0V 55 0V	10 0V 56 0V	10 0V 57 4.9V	10 0V 58 0V	10 0V 59 0V	10 0V 60 0V	10 0V 61 0V	10 0V 62 0V	
11 1.5V 51 -	11 0V 52 0V	11 0V 53 2.3V	11 0V 54 0V	11 0V 55 0V	11 0V 56 0V	11 0V 57 4.9V	11 0V 58 0V	11 0V 59 0V	11 0V 60 0V	11 0V 61 0V	11 0V 62 0V	11 0V 63 0V	
12 0V 52 0V	12 0V 53 2.3V	12 0V 54 0V	12 0V 55 0V	12 0V 56 0V	12 0V 57 4.9V	12 0V 58 0V	12 0V 59 0V	12 0V 60 0V	12 0V 61 0V	12 0V 62 0V	12 0V 63 0V	12 0V 64 0V	
13 4.9V 53 2.3V	13 0V 54 0V	13 0V 55 0V	13 0V 56 0V	13 0V 57 4.9V	13 0V 58 0V	13 0V 59 0V	13 0V 60 0V	13 0V 61 0V	13 0V 62 0V	13 0V 63 0V	13 0V 64 0V	13 0V 65 0V	
14 5V 54 -	14 0V 55 0V	14 0V 56 0V	14 0V 57 4.9V	14 0V 58 0V	14 0V 59 0V	14 0V 60 0V	14 0V 61 0V	14 0V 62 0V	14 0V 63 0V	14 0V 64 0V	14 0V 65 0V	14 0V 66 0V	
15 1.4V 55 0V	15 0V 56 0V	15 0V 57 4.9V	15 0V 58 0V	15 0V 59 0V	15 0V 60 0V	15 0V 61 0V	15 0V 62 0V	15 0V 63 0V	15 0V 64 0V	15 0V 65 0V	15 0V 66 0V	15 0V 67 0V	
16 5V 56 0V	16 0V 57 4.9V	16 0V 58 0V	16 0V 59 0V	16 0V 60 0V	16 0V 61 0V	16 0V 62 0V	16 0V 63 0V	16 0V 64 0V	16 0V 65 0V	16 0V 66 0V	16 0V 67 0V	16 0V 68 0V	
17 0V 57 4.9V	17 0V 58 0V	17 0V 59 0V	17 0V 60 0V	17 0V 61 0V	17 0V 62 0V	17 0V 63 0V	17 0V 64 0V	17 0V 65 0V	17 0V 66 0V	17 0V 67 0V	17 0V 68 0V	17 0V 69 0V	
18 4.8V 58 0V	18 0V 59 0V	18 0V 60 0V	18 0V 61 0V	18 0V 62 0V	18 0V 63 0V	18 0V 64 0V	18 0V 65 0V	18 0V 66 0V	18 0V 67 0V	18 0V 68 0V	18 0V 69 0V	18 0V 70 0V	
19 0V 59 0V	19 0V 60 0V	19 0V 61 0V	19 0V 62 0V	19 0V 63 0V	19 0V 64 0V	19 0V 65 0V	19 0V 66 0V	19 0V 67 0V	19 0V 68 0V	19 0V 69 0V	19 0V 70 0V	19 0V 71 0V	
20 -	20 -	20 -	20 -	20 -	20 -	20 -	20 -	20 -	20 -	20 -	20 -	20 -	
21 -	21 -	21 -	21 -	21 -	21 -	21 -	21 -	21 -	21 -	21 -	21 -	21 -	
22 -	22 -	22 -	22 -	22 -	22 -	22 -	22 -	22 -	22 -	22 -	22 -	22 -	
23 1.4V 63 -	23 0V 64 -	23 0V 65 -	23 0V 66 -	23 0V 67 -	23 0V 68 -	23 0V 69 -	23 0V 70 -	23 0V 71 -	23 0V 72 -	23 0V 73 -	23 0V 74 -	23 0V 75 -	
24 0V 64 -	24 0V 65 -	24 0V 66 -	24 0V 67 -	24 0V 68 -	24 0V 69 -	24 0V 70 -	24 0V 71 -	24 0V 72 -	24 0V 73 -	24 0V 74 -	24 0V 75 -	24 0V 76 -	
25 5V 65 -	25 0V 66 -	25 0V 67 -	25 0V 68 -	25 0V 69 -	25 0V 70 -	25 0V 71 -	25 0V 72 -	25 0V 73 -	25 0V 74 -	25 0V 75 -	25 0V 76 -	25 0V 77 -	
26 4.9V 66 -	26 0V 67 -	26 0V 68 -	26 0V 69 -	26 0V 70 -	26 0V 71 -	26 0V 72 -	26 0V 73 -	26 0V 74 -	26 0V 75 -	26 0V 76 -	26 0V 77 -	26 0V 78 -	
27 2.3V 67 -	27 0V 68 -	27 0V 69 -	27 0V 70 -	27 0V 71 -	27 0V 72 -	27 0V 73 -	27 0V 74 -	27 0V 75 -	27 0V 76 -	27 0V 77 -	27 0V 78 -	27 0V 79 -	
28 4.9V 68 -	28 0V 69 -	28 0V 70 -	28 0V 71 -	28 0V 72 -	28 0V 73 -	28 0V 74 -	28 0V 75 -	28 0V 76 -	28 0V 77 -	28 0V 78 -	28 0V 79 -	28 0V 80 -	
29 2V 69 -	29 0V 70 -	29 0V 71 -	29 0V 72 -	29 0V 73 -	29 0V 74 -	29 0V 75 -	29 0V 76 -	29 0V 77 -	29 0V 78 -	29 0V 79 -	29 0V 80 -	29 0V 81 -	
30 1.9V 70 -	30 0V 71 -	30 0V 72 -	30 0V 73 -	30 0V 74 -	30 0V 75 -	30 0V 76 -	30 0V 77 -	30 0V 78 -	30 0V 79 -	30 0V 80 -	30 0V 81 -	30 0V 82 -	
31 1.9V 71 -	31 0V 72 -	31 0V 73 -	31 0V 74 -	31 0V 75 -	31 0V 76 -	31 0V 77 -	31 0V 78 -	31 0V 79 -	31 0V 80 -	31 0V 81 -	31 0V 82 -	31 0V 83 -	
32 1.9V 72 -	32 0V 73 -	32 0V 74 -	32 0V 75 -	32 0V 76 -	32 0V 77 -	32 0V 78 -	32 0V 79 -	32 0V 80 -	32 0V 81 -	32 0V 82 -	32 0V 83 -	32 0V 84 -	
33 4.9V 73 4.9V	33 0V 74 -	33 0V 75 -	33 0V 76 -	33 0V 77 -	33 0V 78 -	33 0V 79 -	33 0V 80 -	33 0V 81 -	33 0V 82 -	33 0V 83 -	33 0V 84 -	33 0V 85 -	
34 1.9V 74 -	34 0V 75 -	34 0V 76 -	34 0V 77 -	34 0V 78 -	34 0V 79 -	34 0V 80 -	34 0V 81 -	34 0V 82 -	34 0V 83 -	34 0V 84 -	34 0V 85 -	34 0V 86 -	
35 1.9V 75 -	35 0V 76 -	35 0V 77 -	35 0V 78 -	35 0V 79 -	35 0V 80 -	35 0V 81 -	35 0V 82 -	35 0V 83 -	35 0V 84 -	35 0V 85 -	35 0V 86 -	35 0V 87 -	
36 1.9V 76 -	36 0V 77 -	36 0V 78 -	36 0V 79 -	36 0V 80 -	36 0V 81 -	36 0V 82 -	36 0V 83 -	36 0V 84 -	36 0V 85 -	36 0V 86 -	36 0V 87 -	36 0V 88 -	
37 1.9V 77 -	37 0V 78 -	37 0V 79 -	37 0V 80 -	37 0V 81 -	37 0V 82 -	37 0V 83 -	37 0V 84 -	37 0V 85 -	37 0V 86 -	37 0V 87 -	37 0V 88 -	37 0V 89 -	
38 2.4V 78 2.5V	38 0V 79 -	38 0V 80 -	38 0V 81 -	38 0V 82 -	38 0V 83 -	38 0V 84 -	38 0V 85 -	38 0V 86 -	38 0V 87 -	38 0V 88 -	38 0V 89 -	38 0V 90 -	
39 2.4V 79 2.4V	39 0V 80 -	39 0V 81 -	39 0V 82 -	39 0V 83 -	39 0V 84 -	39 0V 85 -	39 0V 86 -	39 0V 87 -	39 0V 88 -	39 0V 89 -	39 0V 90 -	39 0V 91 -	
40 2.4V 80 2.5V	40 0V 81 -	40 0V 82 -	40 0V 83 -	40 0V 84 -	40 0V 85 -	40 0V 86 -	40 0V 87 -	40 0V 88 -	40 0V 89 -	40 0V 90 -	40 0V 91 -	40 0V 92 -	

IC202	1 -4.9V 25 -4.9V	IC209	1 2.5V	IC211	1 2.5V	IC212	1 2.5V
2 -4.9V 26 -4.9V	2 2.3V	2 2.3V	2 2.3V	2 2.3V	2 2.3V	2 2.3V	
3 0V 27 -	3 4.9V	3 4.9V	3 4.9V	3 4.9V	3 4.9V	3 4.9V	
4 0V 28 5V	4 4.9V	4 4.9V	4 4.9V	4 4.9V	4 4.9V	4 4.9V	
5 0V 29 0V	5 -	5 -	5 -	5 -	5 -	5 -	
6 0V 30 5V	6 2.6V	6 2.6V	6 2.6V	6 2.6V	6 2.6V	6 2.6V	
7 0V 31 5V	7 2.6V	7 2.6V	7 2.6V	7 2.6V	7 2.6V	7 2.6V	
8 0V 32 0V	8 0V 2.3V 2.3V	8 0V 2.3V 2.3V	8 0V 2.3V 2.3V	8 0V 2.3V 2.3V	8 0V 2.3V 2.3V	8 0V 2.3V 2.3V	
9 0V 33 2.4V	9 2V 5V 5V	9 2V 5V 5V	9 2V 5V 5V	9 2V 5V 5V	9 2V 5V 5V	9 2V 5V 5V	
10 0V 34 2.5V	10 4.9V 2V 2V	10 4.9V 2V 2V	10 4.9V 2V 2V	10 4.9V 2V 2V	10 4.9V 2V 2V	10 4.9V 2V 2V	
11 1V 35 2.3V	11 - 3.1V 3.1V	11 - 3.1V 3.1V	11 - 3.1V 3.1V	11 - 3.1V 3.1V	11 - 3.1V 3.1V	11 - 3.1V 3.1V	
12 0V 36 2.3V	12 - 0V 0V	122					



Schematic Diagram<D-105U JA/EK>(1/2)

NOTE
1. All resistance values are in ohms. K=1,000 M=1,000,000
2. All capacitance values are in microfarads. P=1/100,000
Voltage Measuring Conditions
1. Power Supply Voltage : AC100V,50/60Hz(JA model only)
: AC120V/220V/240V,50Hz(EK model only)
2. Measuring Meter : Digital Multimeter
3. Measuring Point Reference : Between Ground
4. Measuring Conditions : NO Signal Input
: AT Play Mode Test CD
(Use the 2nd track on the YED-18)

IC'S	IC501	IC105	IC102	IC101
TRANSISTORS (Q)		Q101	Q102	

IC201	IC204	IC203	IC206
1 -29.3V 33 5V 2 -22.6V 34 1.4V 3 -27V 35 4.9V 4 -27V 36 0V 5 -22.6V 37 4.9V 6 -32.8V 38 -18.7V 7 -32.8V 39 0V 8 -32.8V 40 0V 9 -32.8V 41 0V 10 -32.8V 42 0V 11 -32.8V 43 2.2V 12 -32.8V 44 -19V 13 -32.8V 45 -19.1V 14 -32.8V 46 -18.7V 15 -32.8V 47 0V 16 0V 48 2.3V 17 -7.6V 49 2.3V 18 4.8V 50 0V 19 -35.8V 51 0V 20 -7.4V 52 - 21 0V 53 5V 22 0V 54 0V 23 0.4V 55 0V 24 5V 56 0V 25 5V 57 -22.2V 26 1.4V 58 -24.2V 27 1.4V 59 -23.8V 28 4.9V 60 -17.1V 29 0V 61 -10.1V 30 4.8V 62 -15.6V 31 - 63 -22.5V 32 5V 64 -29.8V	1 - 2 - 3 -4.9V 4 -4.9V 5 -4.9V 6 -4.9V 7 0V 8 0V 9 0V 10 0V 11 0V 12 0V 13 0V 14 0V 15 -2.2V 16 -1.9V 17 -4.9V 18 0V 19 0V 20 2.4V 21 2.4V 22 0V 23 -1.7V 24 -1.2V 25 0V 26 2.4V 27 2.4V 28 4.9V 29 0.2V 30 4.9V	1 0V 2 1.1V 3 0V 4 2.5V 5 2.8V 6 -4.8V 7 0V 8 0V 9 0V 10 0V 11 0V 12 -0.6V 13 -0.4V 14 1.9V 15 -2.2V 16 1.9V 17 2V 18 2.6V 19 *3 20 2.6V 21 -4.8V 22 4.3V 23 -1.7V 24 2.8V 25 -1.2V 26 2.4V 27 2.4V 28 4.9V 29 0.2V 30 4.9V	1 2.5V 2 2.5V 3 2.4V 4 2.4V 5 2.4V 6 2.4V 7 2.4V 8 2.4V 9 1.9V 10 1.9V 11 1.9V 12 0V 13 1.9V 14 1.9V 15 1.9V 16 1.9V 17 2V 18 2.6V 19 *3 20 2.6V 21 4.3V 22 2V 23 2.8V 24 4.9V 25 0.2V 26 2.4V 27 2.4V 28 4.9V 29 0.2V 30 4.9V

IC205	IC105	IC214	IC215	IC216	IC217	IC221
1 0V 41 2.4V 2 -4.8V 42 2.4V 3 2.5V 43 2.4V 4 2.7V 44 2.5V 5 2.4V 45 2.5V 6 2.4V 46 2.9V 7 4.9V 47 2V 8 2.4V 48 *2 9 2.4V 49 4.3V 10 0V 50 2.6V 11 1.5V 51 - 12 0V 52 0V 13 4.9V 53 2.3V 14 5V 54 - 15 1.4V 55 0V 16 5V 56 0V 17 0V 57 4.9V 18 4.8V 58 0V 19 0V 59 0V 20 - 60 - 21 - 61 - 22 - 62 - 23 1.4V 63 - 24 0V 64 - 25 5V 65 - 26 4.9V 66 - 27 2.3V 67 - 28 4.9V 68 - 29 2V 69 - 30 1.9V 70 - 31 1.9V 71 - 32 1.9V 72 - 33 4.9V 73 4.9V 34 1.9V 74 - 35 1.9V 75 - 36 1.9V 76 2.3V 37 1.9V 77 - 38 2.4V 78 2.5V 39 2.4V 79 2.4V 40 2.4V 80 2.5V	1 15.7V 5.7V -4.9V 7.9V -7.8V 5V 2 0V 0V -12.8V 0V -12.8V 0V 3 11.9V 12V 0V 12V 0V 7.9V	1 0V 0V 0V 0V 0V 2 0V 0V 0V 0V 0V 3 0V 0V 0V 0V -8V 4 -7.8V -7.8V -7.8V -7.8V 0V 5 0V 0V 0V 0V - 6 0V 0V 0V 0V - 7 0V 0V 0V 0V - 8 7.9V 7.9V 7.9V 7.9V 12V	1 0~4.9V 0~4.9V 2 -4.9~4.9V -4.9~4.9V 3 -12.8V -12.8V 4 -4.9~4.9V -4.9~4.9V 5 12V 12V	1 0~4.9V 0~4.9V 2 -4.9~4.9V -4.9~4.9V 3 -12.8V -12.8V 4 -4.9~4.9V -4.9~4.9V 5 12V 12V	1 0~4.9V 0~4.9V 2 -4.9~4.9V -4.9~4.9V 3 -12.8V -12.8V 4 -4.9~4.9V -4.9~4.9V 5 12V 12V	1 0~4.9V 0~4.9V 2 -4.9~4.9V -4.9~4.9V 3 -12.8V -12.8V 4 -4.9~4.9V -4.9~4.9V 5 12V 12V

IC202	IC209	IC211	IC212
1 -4.9V 25 -4.9V 2 -4.9V 26 0V 3 0V 27 - 4 0V 28 5V 5 0V 29 0V 6 0V 30 5V 7 0V 31 5V 8 0V 32 0V 9 0V 33 2.4V 10 0V 34 2.5V 11 1V 35 2.3V 12 0V 36 2.3V 13 0.3V 37 3.5V 14 0V 38 2.5V 15 0V 39 4.9V 16 4.9V 40 2.5V 17 0V 41 4.8V 18 -3.2V 42 2.5V 19 0V 43 4.9V 20 *1 44 0V 21 0V 45 1.1V 22 -4.9V 46 2.4V 23 -4.9V 47 0V 24 4.8V 48 0V	1 2.5V 2 2.3V 3 4.9V 4 4.9V 5 - 6 2.6V 7 2.6V 8 0V 9 2V 10 4.9V 11 3.1V 12 - 13 0V 14 4.7V 15 4.9V 16 4.9V 17 4.9V 18 - 19 4.9V 20 - 21 0V 22 4.9V 23 2.1V 24 2.1V 25 3.7V 26 1.9V 27 -4.9V 28 2.5V	1 2.5V 2 2.3V 3 4.9V 4 4.9V 5 - 6 2.6V 7 2.6V 8 0V 9 2V 10 4.9V 11 3.1V 12 - 13 0V 14 4.7V 15 4.9V 16 4.9V 17 4.9V 18 - 19 4.9V 20 - 21 0V 22 4.9V 23 2.1V 24 2.1V 25 3.7V 26 1.9V 27 -4.9V 28 2.5V	1 2.5V 2 2.3V 3 4.9V 4 4.9V 5 - 6 2.6V 7 2.6V 8 0V 9 2V 10 4.9V 11 3.1V 12 - 13 0V 14 4.7V 15 4.9V 16 4.9V 17 4.9V 18 - 19 4.9V 20 - 21 0V 22 4.9V 23 2.1V 24 2.1V 25 3.7V 26 1.9V 27 -4.9V 28 2.5V

Q101	E	C	B
Q101	-30.2V	-43.8V	-30.7V
Q102	85.1V	130.5V	85.6V
Q103	0V	0V	-7.6V
Q104	0V	0V	-7.6V
Q105	0V	0V	-7.6V
Q106	0V	0V	-7.6V
Q201	2V	0V	2.43V
Q204	0V	0V	2.8V
Q205	11.7V	-7.5V	0V
Q206	4.9V	4.9V	0V
Q207	0V	0V	6.3V
Q208	0V	0V	6.3V
Q209	0V	0V	0V
Q210	0V	0V	0V
Q211	0V	0V	0V
Q212	0.6V	11.2V	1V
Q213	0.6V	-12V	1V
Q214	0V	11.2V	0.6V
Q215	0V	-12V	0.6V
Q216	0V	11.2V	0V
Q217	0V	-12V	0V
Q218	0.6V	11.2V	0V
Q219	0.6V	-12V	0V

FL/Key Board P.C. Board

FADE P.C. Board

REMOTE P.C. Board

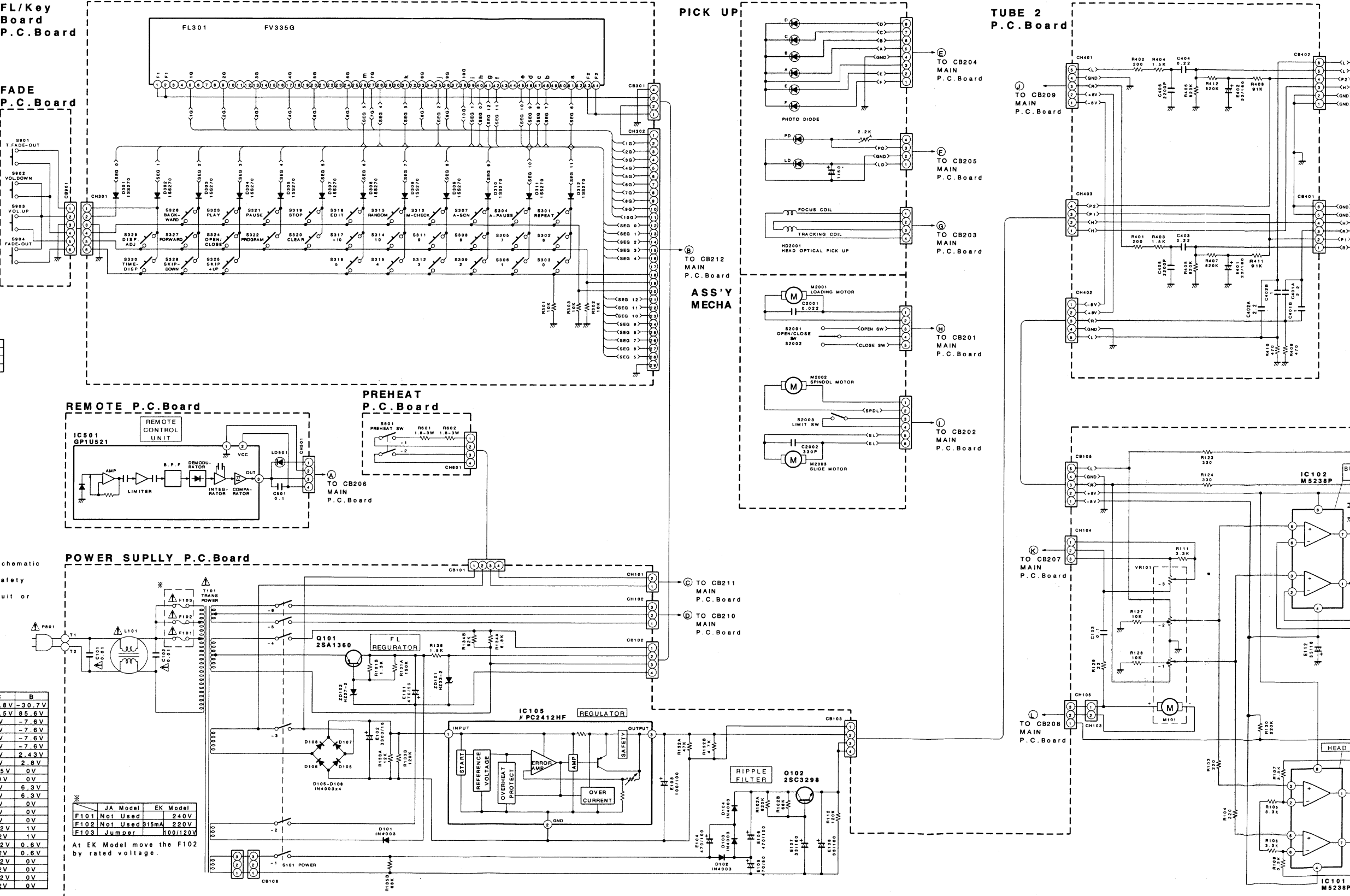
PREHEAT P.C. Board

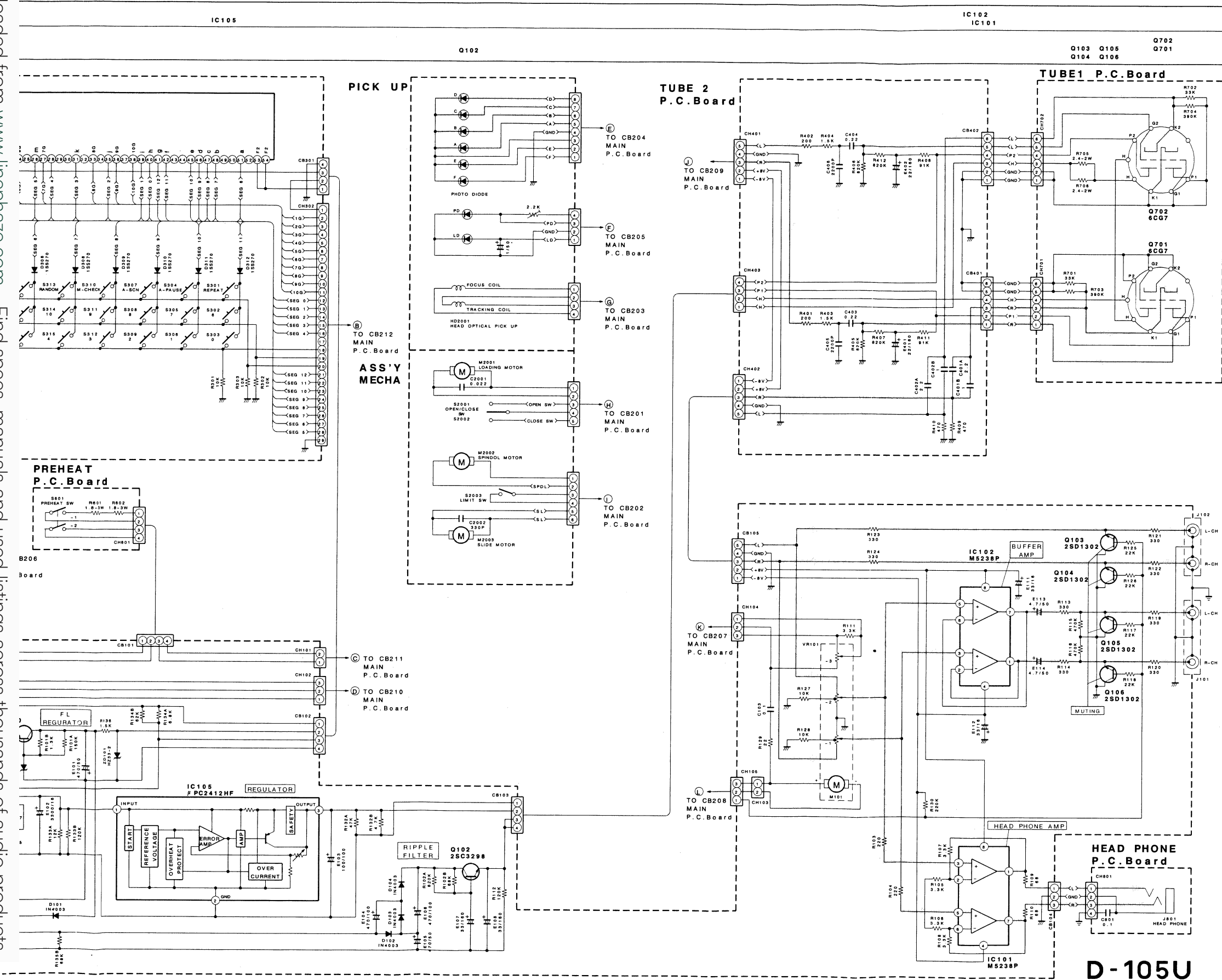
POWER SUPPLY P.C. Board

PICK UP

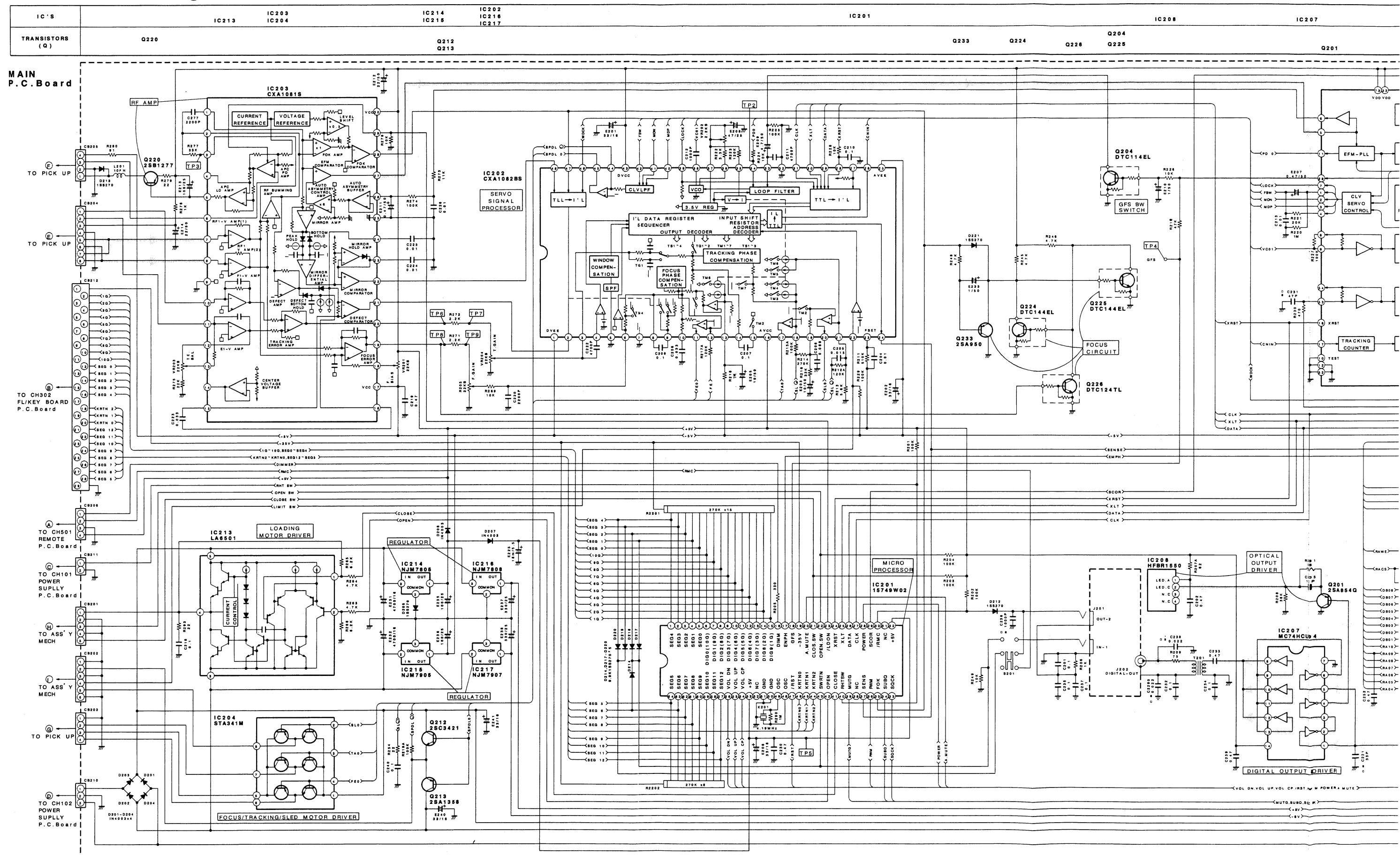
ASS'Y MECHA

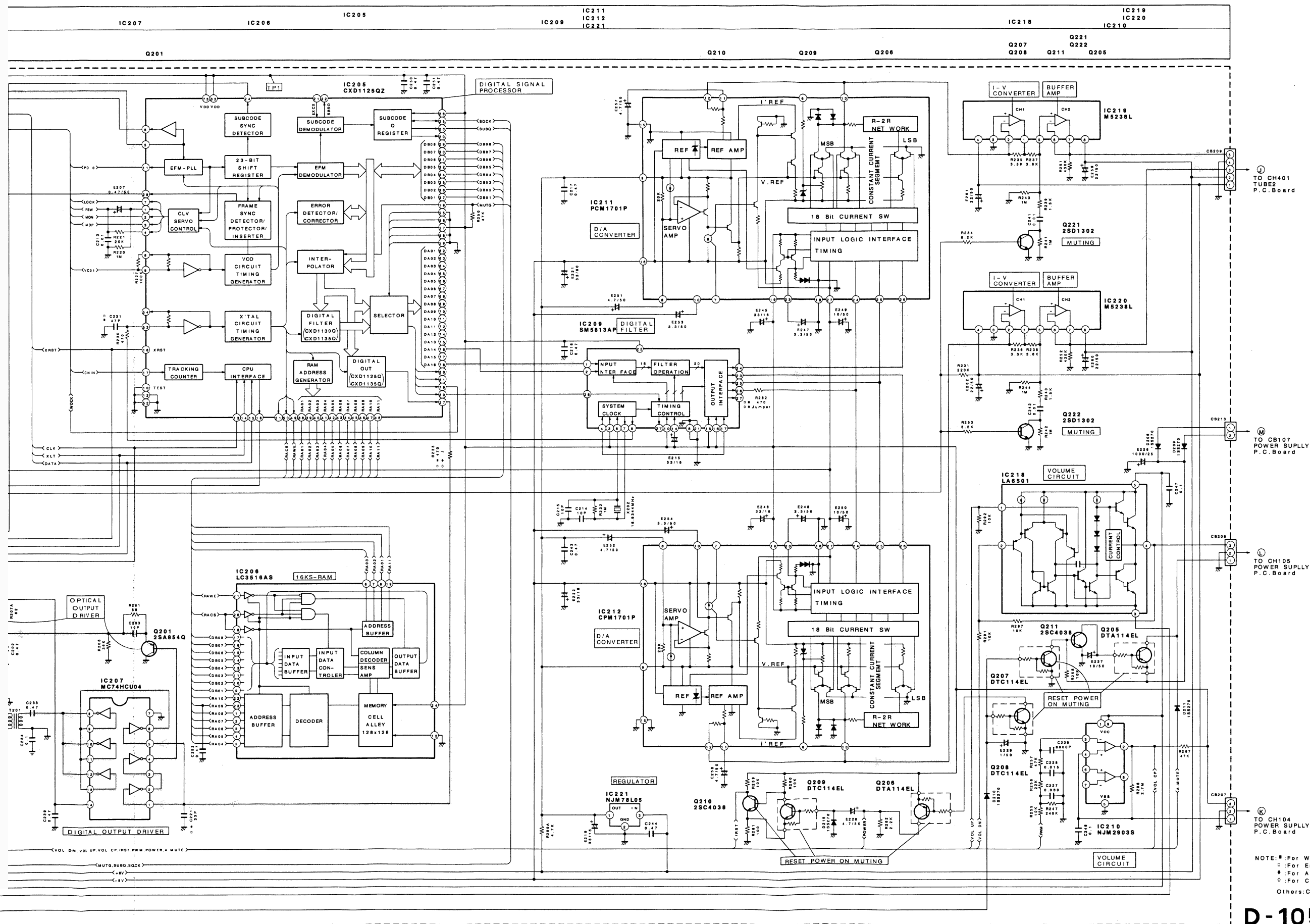
TUBE 2 P.C. Board





Schematic Diagram <D-105U AD/UZ/AG/UQ> (2/2)

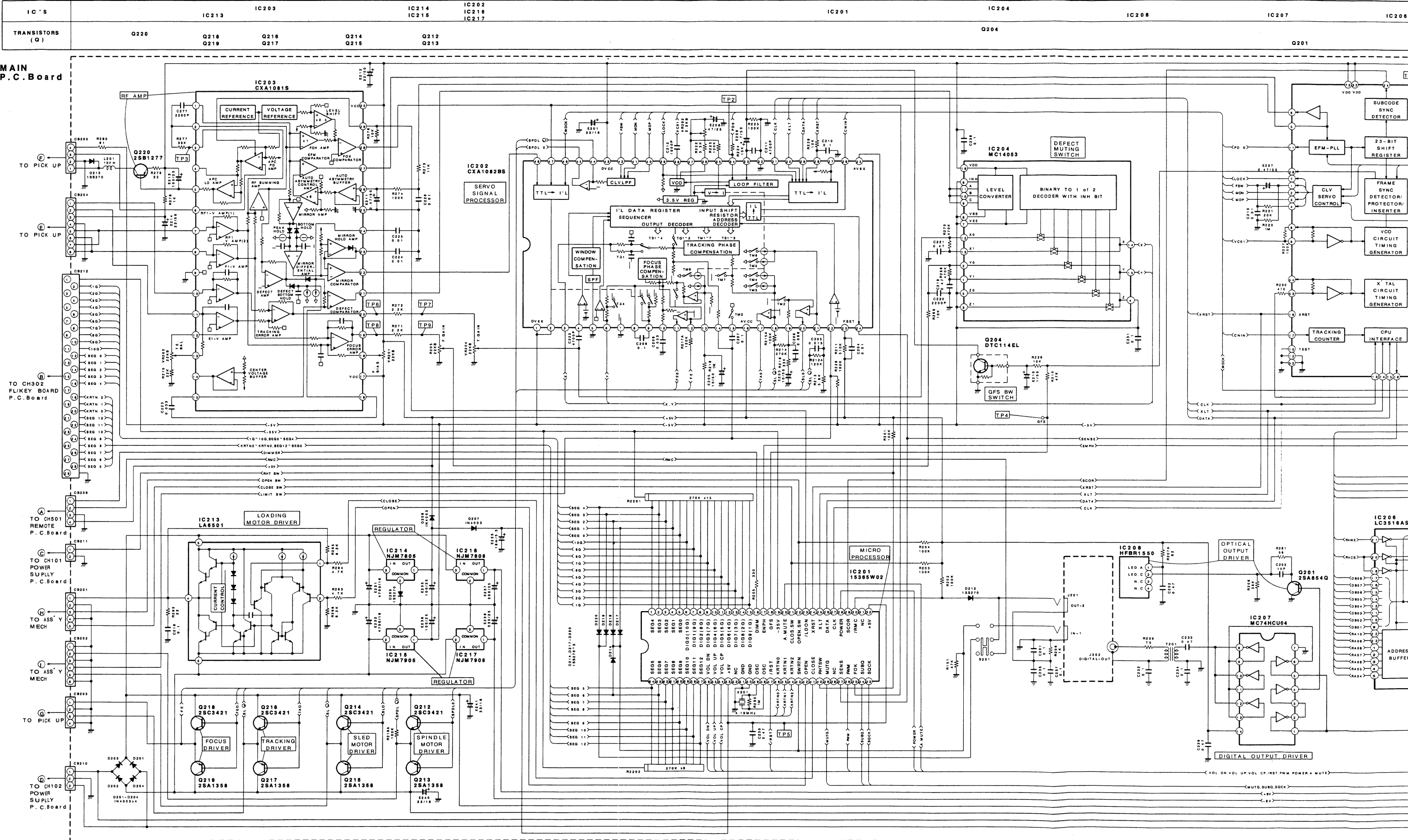


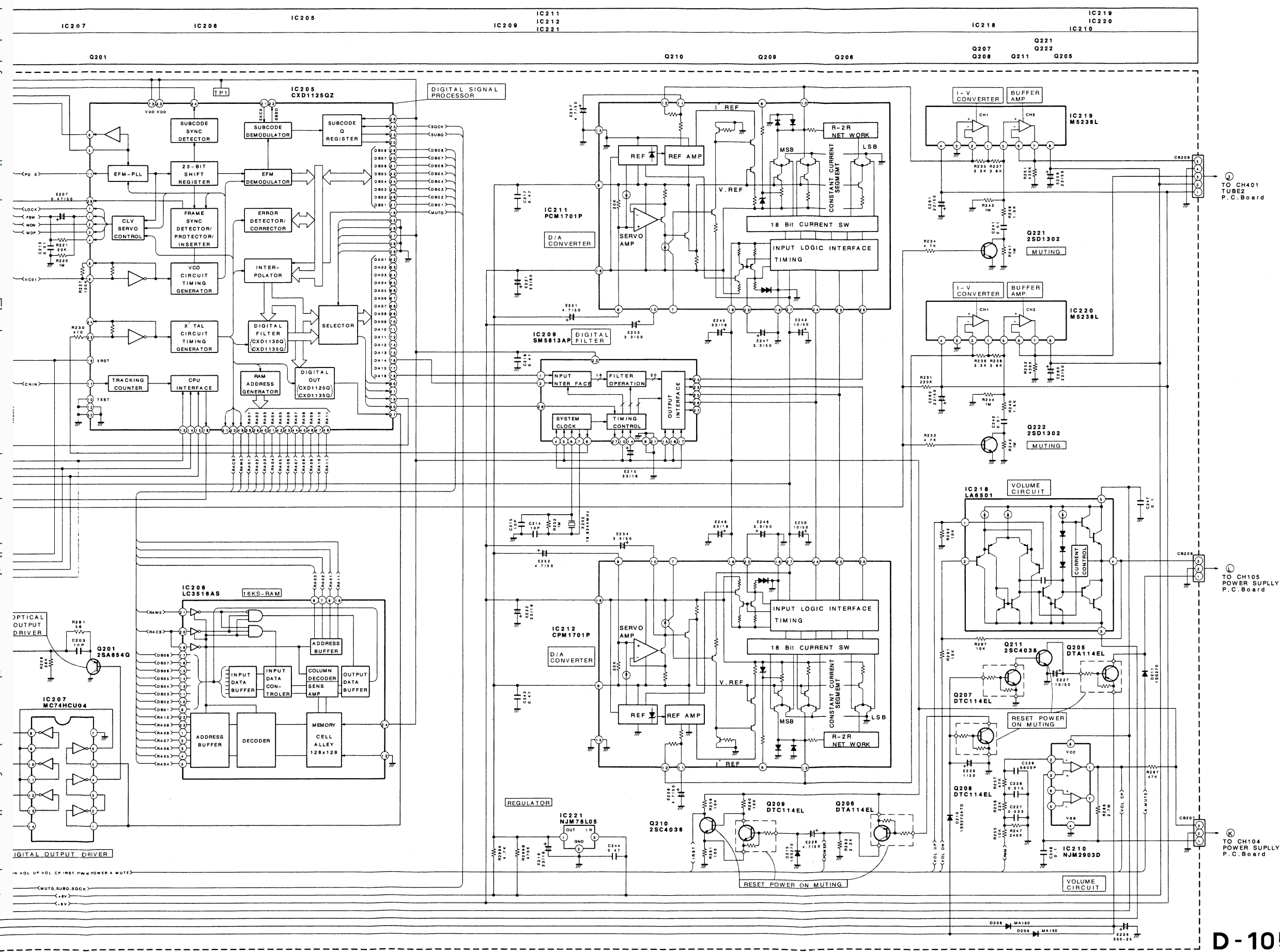


NOTE: For West German model only (AD)
For England model only (AG)
For American model only (UZ)
For Canadian model only (UQ)
Others: Common

D-105U

Schematic Diagram <D-105U JA/EK> (2/2)

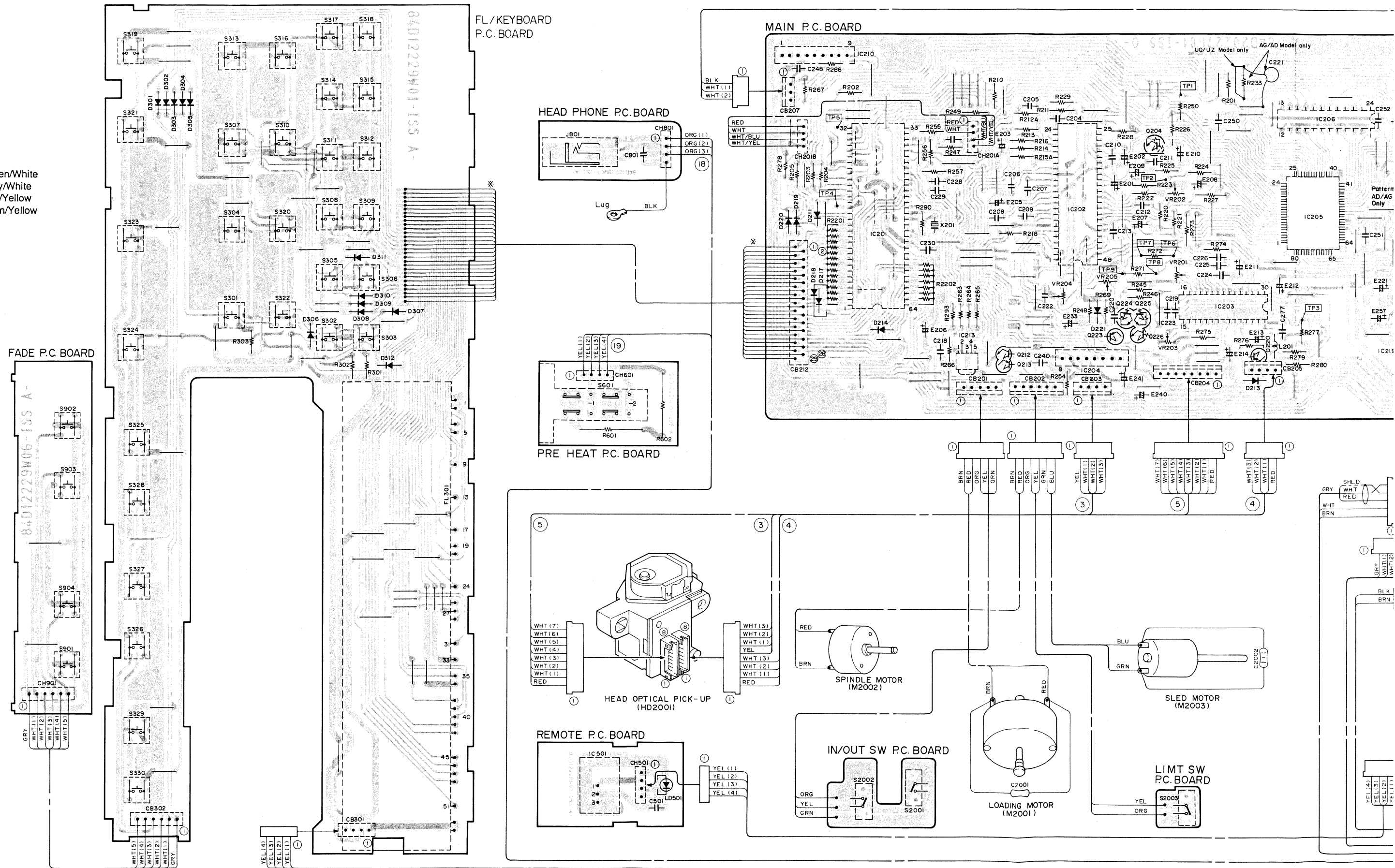


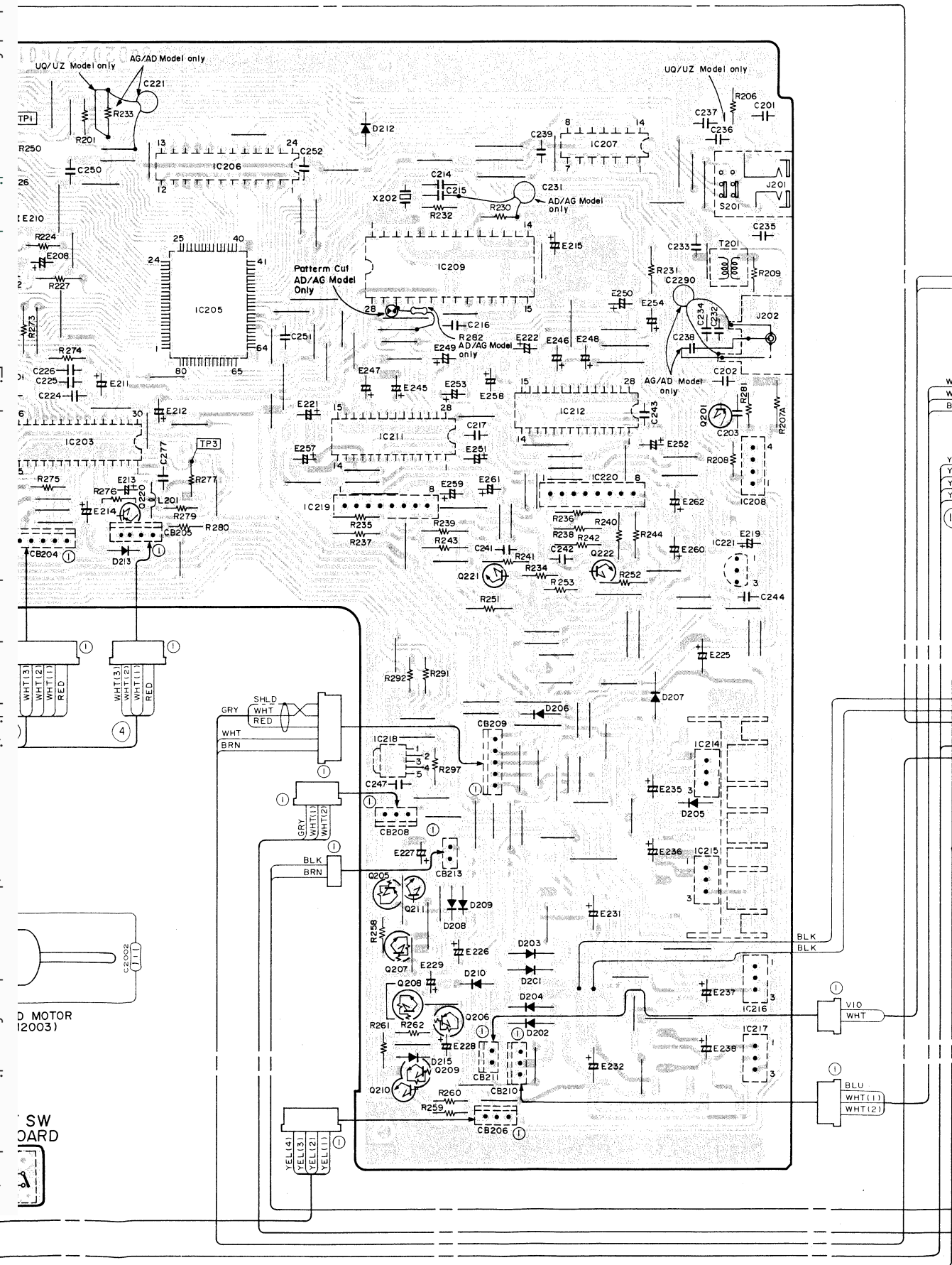


D-105U

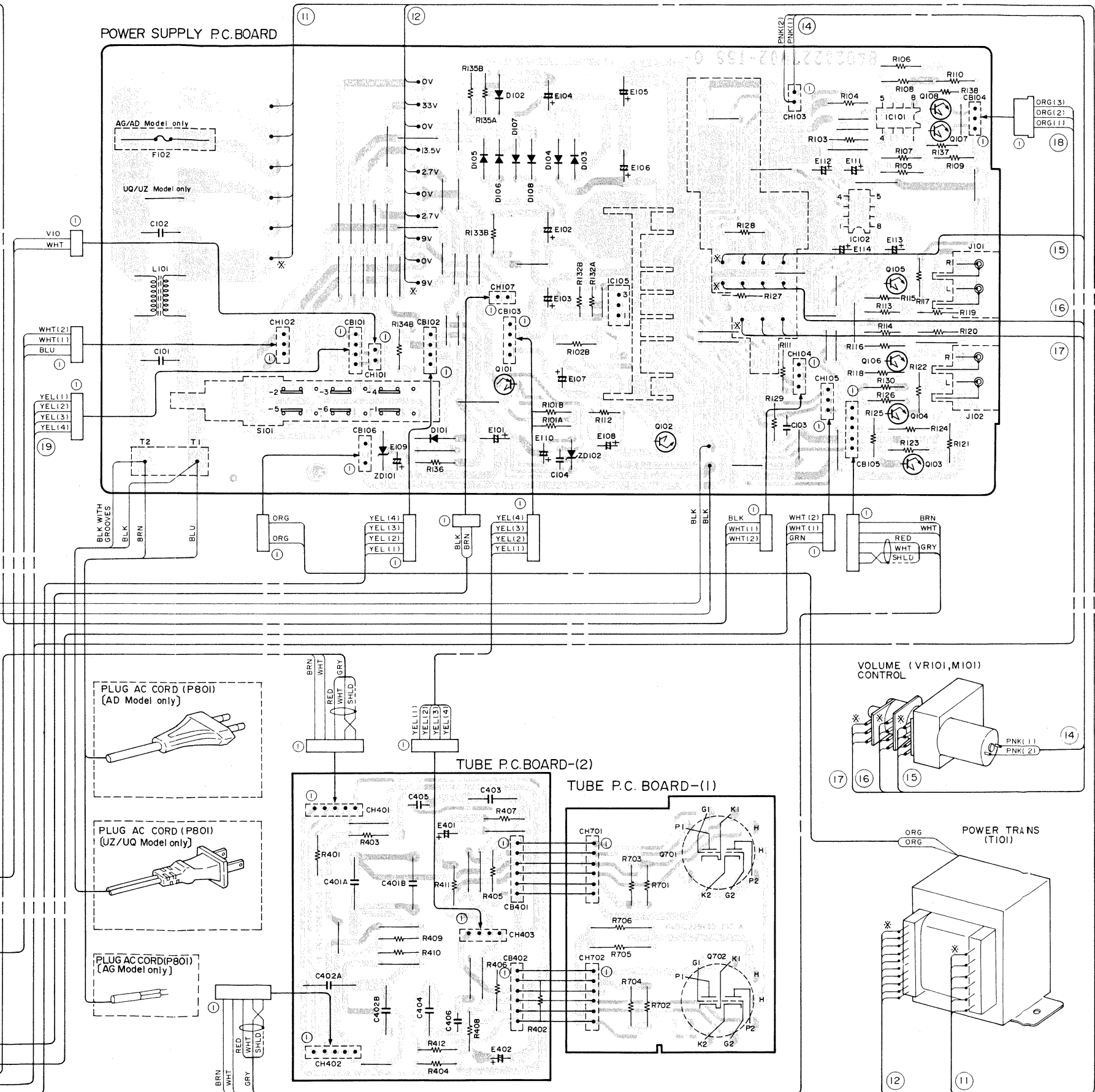
Parts Layout on P.C. Boards and Wiring Diagram (AD/UZ/AG/UQ model)

BLU.....Blue
 GRN.....Green
 BLK.....Black
 GRY.....Gray
 WHT.....White
 RED.....Red
 BRN.....Brown
 ORG.....Orange
 YEL.....Yellow
 VIO.....Violet
 PNK.....Pink
 GRN/WHT.....Green/White
 GRY/WHT.....Gray/White
 GRY/YEL.....Gray/Yellow
 GRN/YEL.....Green/Yellow
 SHLD.....Shield





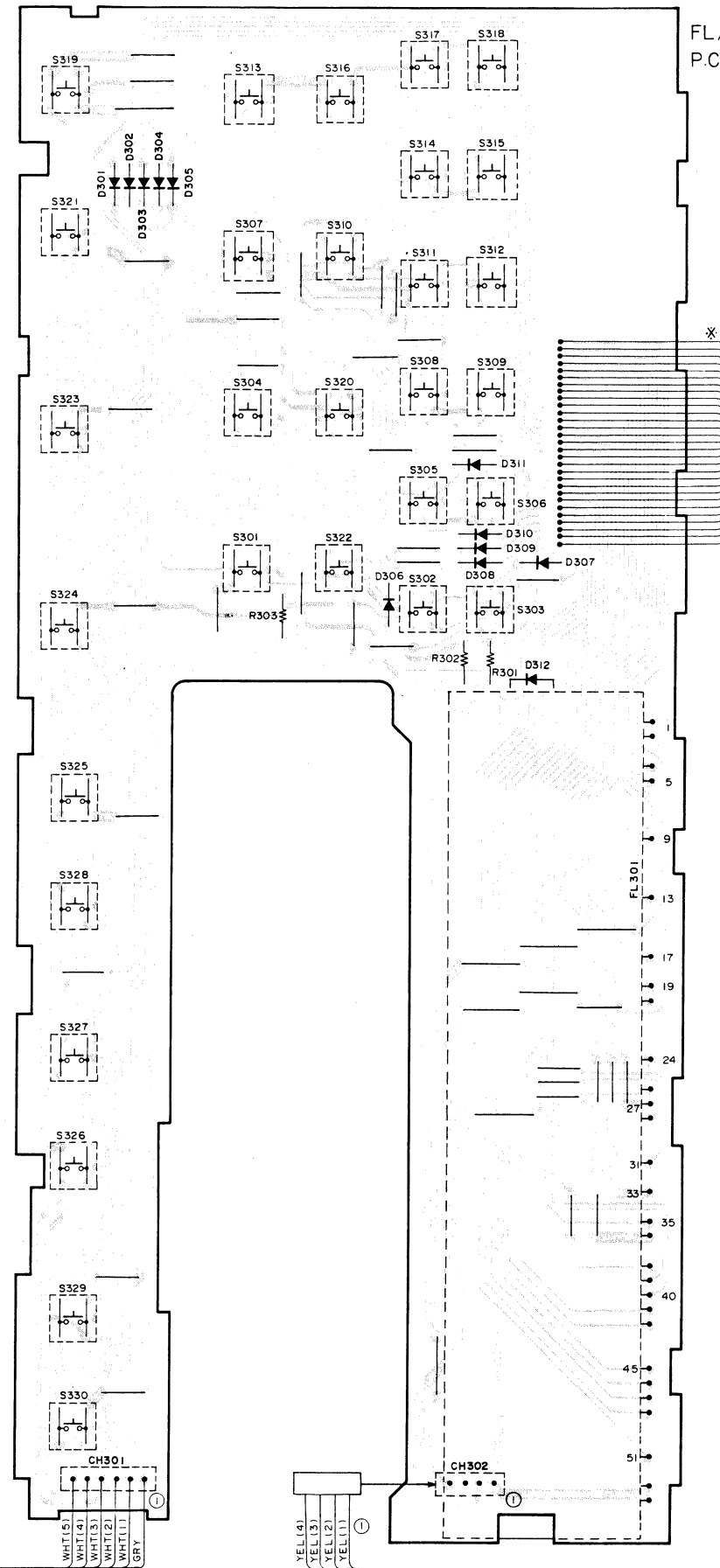
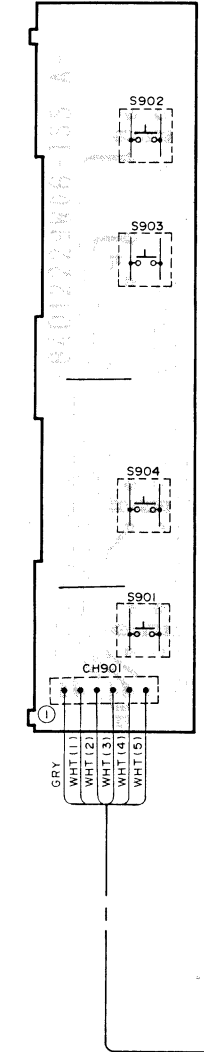
POWER SUPPLY P.C. BOARD



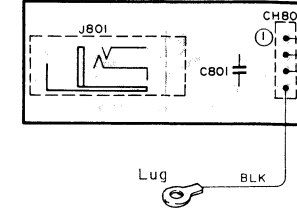
Parts Layout on P.C. Board and Wiring Diagram (JA/EK model)

BLU.....Blue
 GRN.....Green
 BLK.....Black
 GRY.....Gray
 WHT.....White
 RED.....Red
 BRN.....Brown
 ORG.....Orange
 YEL.....Yellow
 VIO.....Violet
 PNK.....Pink
 GRN/WHT.....Green/White
 GRY/WHT.....Gray/White
 GRY/YEL.....Gray/Yellow
 GRN/YEL.....Green/Yellow
 SHLD.....Shield

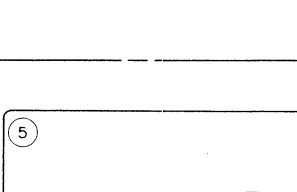
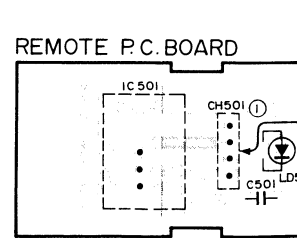
FADE P.C. BOARD

FL / KEYBOARD
P.C. BOARD

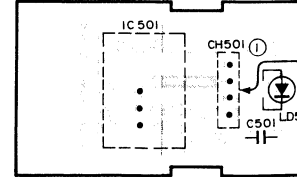
HEAD PHONE P.C. BOARD



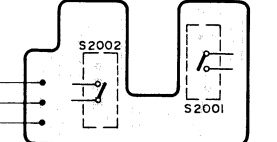
PRE HEAT P.C. BOARD

HEAD OPTICAL PICK-UP
(HD2001)

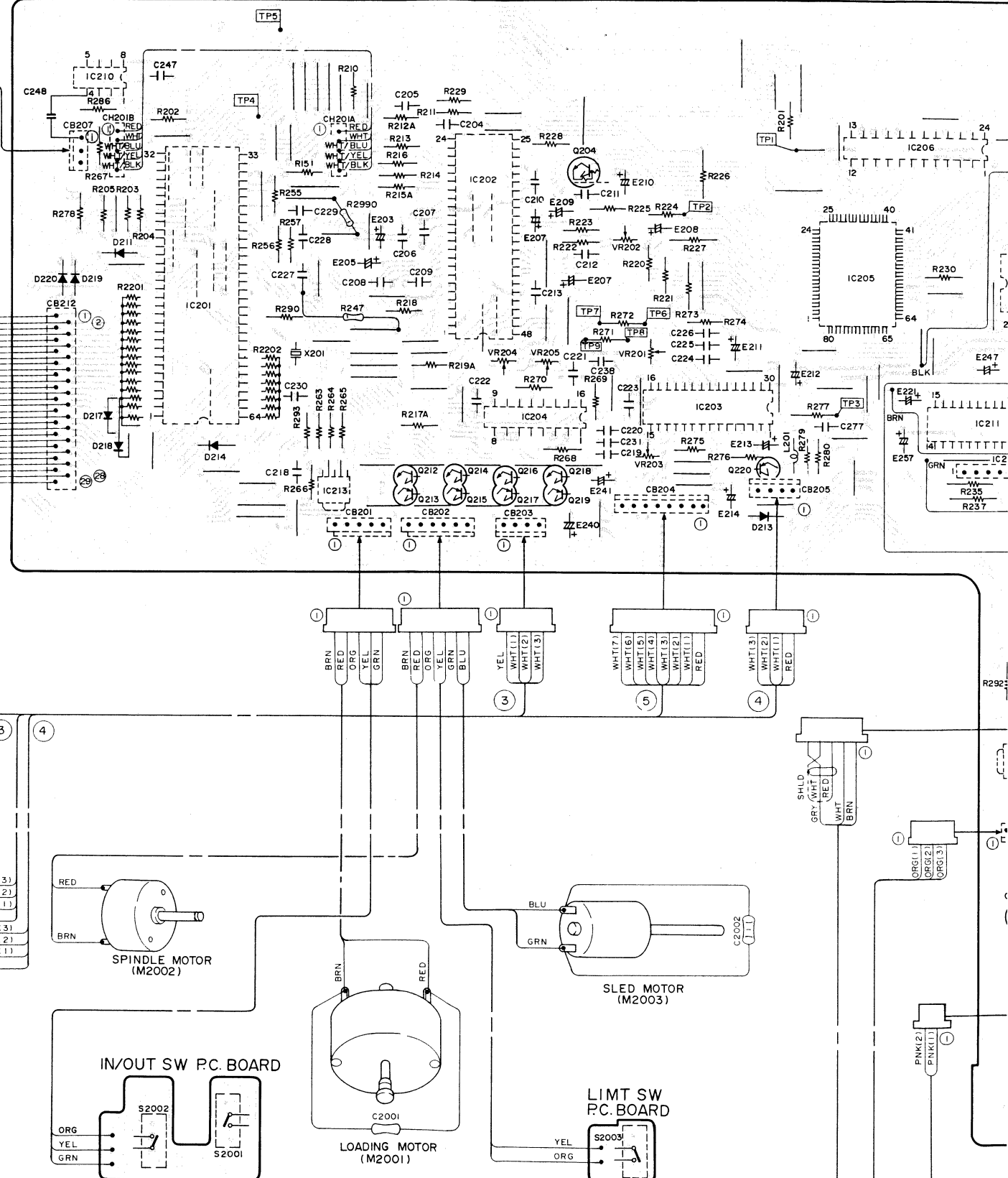
REMOTE P.C. BOARD

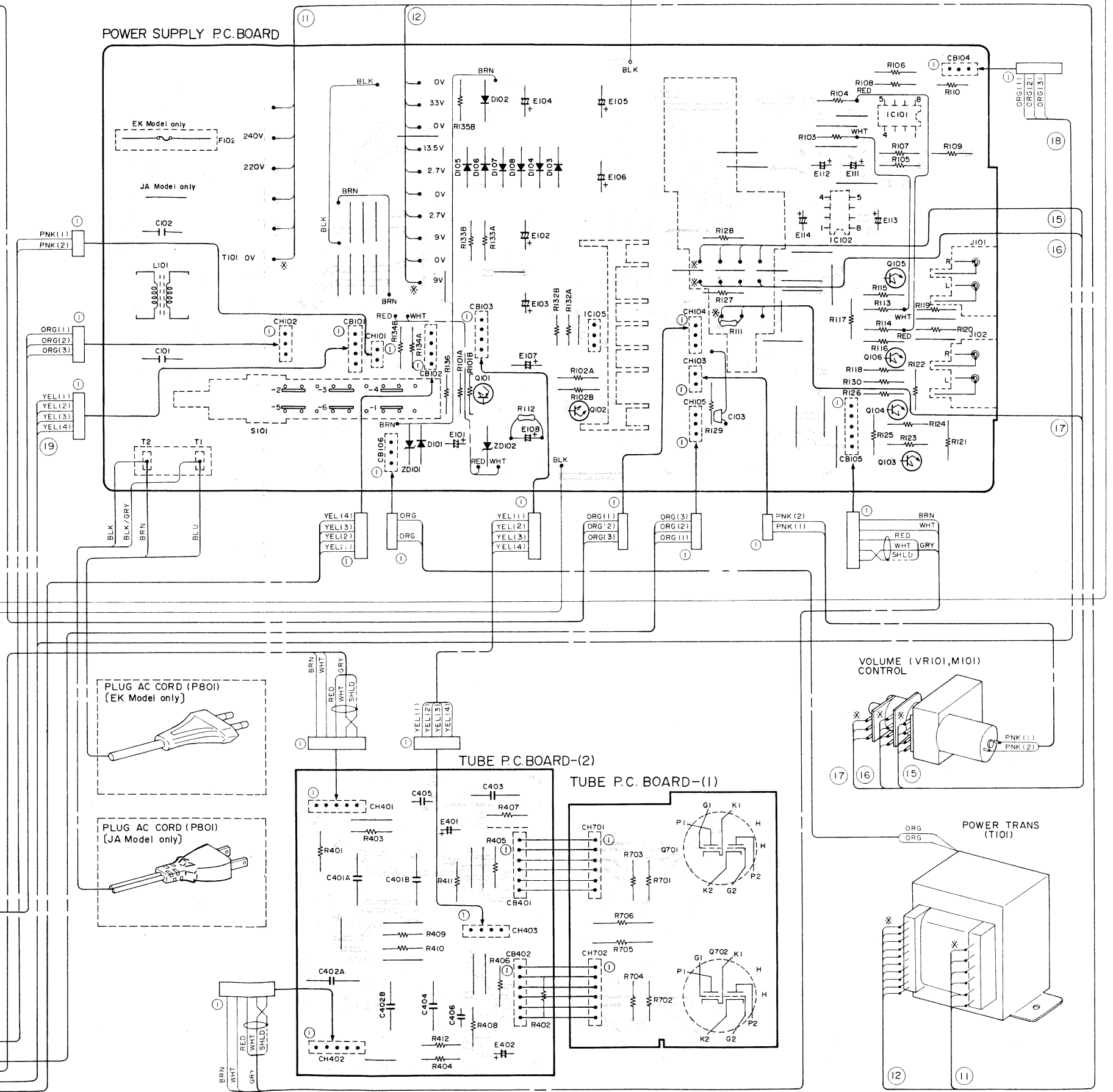
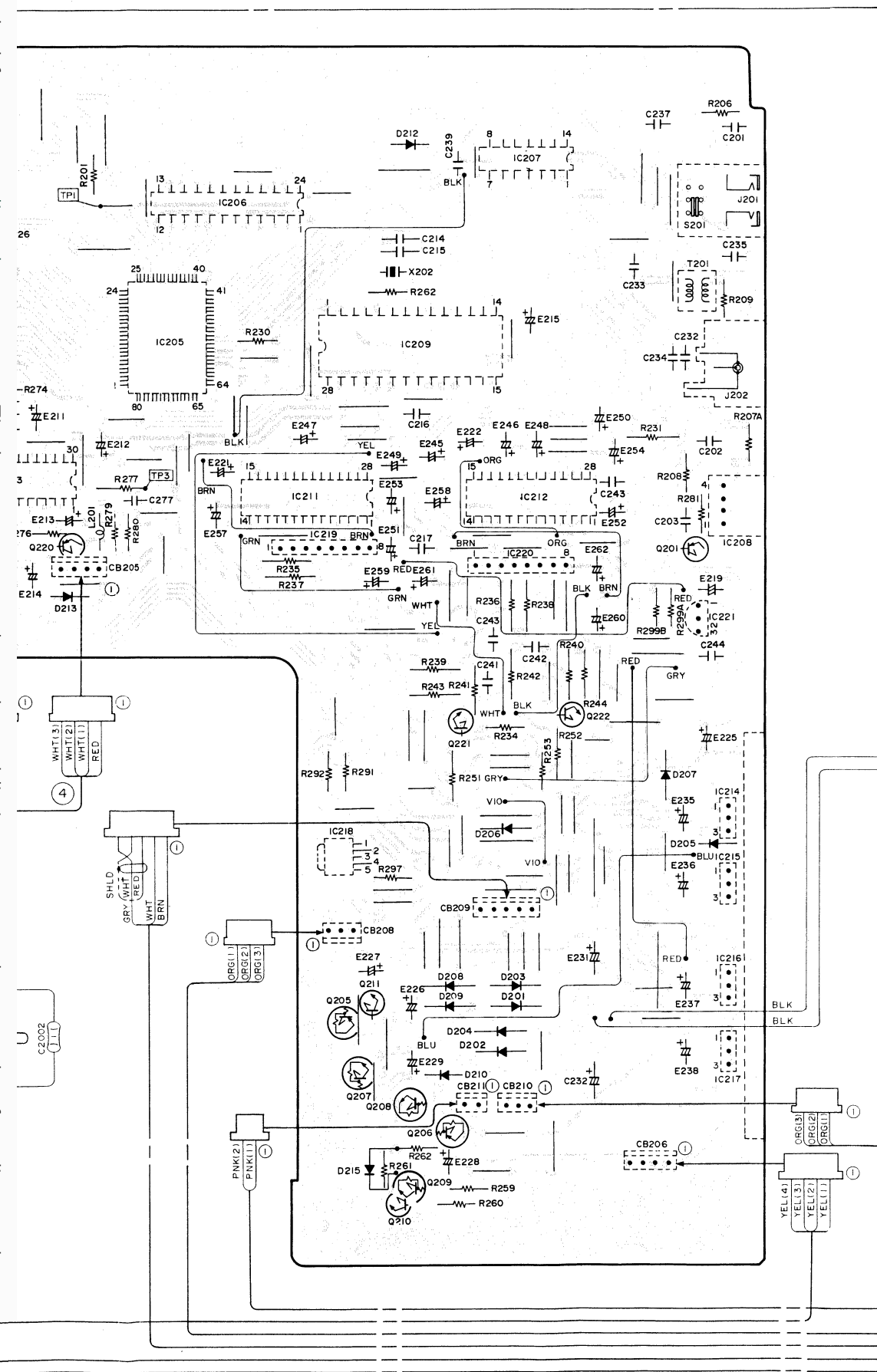


IN/OUT SW P.C. BOARD



MAIN P.C. BOARD





Electrical Parts List

Abbreviations

Cap.-Capacitor	CER.-Ceramic
CP.-Chip	ELY.-Electrolytic
LED.-Light Emitting Diode	MIC.-Mica
MO.-Metal Oxide Film	MYL.-Mylar
PP.-Polypropylene	SOL.-Solid
TAN.-Tantalum	ZEN.-Zenner

Symbol No	Part No	Description
--------------	---------	-------------

Main P.C. Board

IC's

●	IC201	51T15365W02	15365W02
▲	IC201	51T15365W02	15365W02
◆	IC201	51T15749W02	15749W02
◇	IC201	51T15749W02	15749W02
■	IC201	51T15749W02	15749W02
□	IC201	51T15749W02	15749W02
	IC202	51T84722F02	CXA1082BS
	IC203	51T84721F01	CXA1081S
●	IC204	51T94886F01	MC14053
▲	IC204	51T94886F01	MC14053
◆	IC204	51T25098W01	STA341M
◇	IC204	51T25098W01	STA341M
■	IC204	51T25098W01	STA341M
□	IC204	51T25098W01	STA341M
	IC205	51T84720F01	CXD1125QZ
	or	51T84719F01	CXD1135QZ
	IC206	51T84723F01	LC3516AS
	IC207	51T94890F01	MC74HCU04
	IC208	51T15608W01	HFB1550
	IC209	51T15628W01	SM5813AP
●	IC210	51T64227F01	NJM2903D
▲	IC210	51T64227F01	NJM2903D
◆	IC210	51T62866F01	NJM2903S
◇	IC210	51T62866F01	NJM2903S
■	IC210	51T62866F01	NJM2903S
□	IC210	51T62866F01	NJM2903S
	IC211	51T16104W01	PCM1701P
	IC212	51T16104W01	PCM1701P
	IC213	51T90889F01	LA6501
	IC214	51T80338F01	NJM7805
	IC215	51T80339F01	NJM7905

Resistor: Carbon resistors under 1/8 watts are not mentioned in the parts list, please confirm them by schematic diagram.
Capacitor: μ F-microfarads, pF-picofarads.

Symbol No	Part No	Description
●	IC216	51T15976W01 NJM7808
▲	IC216	51T15976W01 NJM7808
◆	IC216	51T15121W02 NJM7808FA
◇	IC216	51T15121W02 NJM7808FA
■	IC216	51T15121W02 NJM7808FA
□	IC216	51T15121W02 NJM7808FA
	IC217	51T15977W01 NJM7908
	IC218	51T90889F01 LA6501
	IC219	51T80136F02 M5238L
	IC220	51T80136F02 M5238L
	IC221	51T60969F01 NJM78L05-A
Transistors		
	Q201	48T73682F01 2SA854Q
	Q204	48T82763F02 DTC114EL
	Q205	48T82762F02 DTA114EL
	Q206	48T82762F02 DTA114EL
	Q207	48T82763F02 DTC114EL
	Q208	48T82763F02 DTC114EL
	Q209	48T82763F02 DTC114EL
	Q210	48T82758F01 2SC4038
	Q211	48T82758F01 2SC4038
	Q212	48T69176F01 2SC3421
●	Q213	48T69177F01 2SA1358
▲	Q214	48T69176F01 2SC3421
◆	Q214	48T69176F01 2SC3421
◇	Q215	48T69177F01 2SA1358
■	Q215	48T69177F01 2SA1358
□	Q216	48T69176F01 2SC3421
	Q216	48T69176F01 2SC3421
	Q217	48T69177F01 2SA1358
	Q217	48T69177F01 2SA1358
	Q218	48T69176F01 2SC3421
▲	Q218	48T69176F01 2SC3421
●	Q219	48T69177F01 2SA1358
▲	Q219	48T69177F01 2SA1358
	Q220	48T82759F01 2SB1277
	Q221	48T57305F04 2SD1302
	Q222	48T57305F04 2SD1302
◆	Q223	48T43526F02 2SA950
◇	Q223	48T43526F02 2SA950
■	Q223	48T43526F02 2SA950
□	Q223	48T43526F02 2SA950
◆	Q224	48T82763F04 DTC114EL
◇	Q224	48T82763F04 DTC114EL

Note: ●:For Japanese model only (JA)
▲:For General Foreign model only (EK)
others:Common

◆:For American model only (UZ)
■:For West Germany model only (4D)
◇:For Canadian model only (UQ)
□:For England model only (4G)

Symbol No	Part No	Description		
■ Q224	48T82763F04	DTC114EL		
□ Q224	48T82763F04	DTC114EL		
◆ Q225	48T82763F04	DTC114EL		
◇ Q225	48T82763F04	DTC114EL		
■ Q225	48T82763F04	DTC114EL		
□ Q225	48T82763F04	DTC114EL		
◆ Q226	48T82763F11	DTC124TL		
◇ Q226	48T82763F11	DTC124TL		
■ Q226	48T82763F11	DTC124TL		
□ Q226	48T82763F11	DTC124TL		
Diodes				
● D201	48S40477U01	1N4003		
▲ D202	48S40477U01	1N4003		
◆ D203	48S40477U01	1N4003		
◇ D204	48S40477U01	1N4003		
■ D205	48T84758F01	1SS270ATD		
□ D206	48S40477U01	1N4003		
● D207	48S40477U01	1N4003		
▲ D208	48T51582F01	MA150		
◆ D208	48T51582F01	MA150		
◇ D208	48T84758F01	1SS270		
■ D208	48T84758F01	1SS270		
□ D208	48T84758F01	1SS270		
● D209	48T51582F01	MA150		
▲ D209	48T51582F01	MA150		
◆ D209	48T84758F01	1SS270		
◇ D209	48T84758F01	1SS270		
■ D209	48T84758F01	1SS270		
□ D209	48T84758F01	1SS270		
◇ D210	48T84758F01	1SS270		
■ D211	48T84758F01	1SS270		
□ D212	48T84758F01	1SS270		
◇ D213	48T84758F01	1SS270		
■ D214	48T84758F01	1SS270		
□ D215	48T84758F01	1SS270		
◇ D217	48T84758F01	1SS270		
■ D218	48T84758F01	1SS270		
□ D219	48T84758F01	1SS270		
◇ D220	48T84758F01	1SS270		
■ D221	48T84758F01	1SS270		
◇ D221	48T84758F01	1SS270		
■ D221	48T84758F01	1SS270		
□ D221	48T84758F01	1SS270		

Note:●:For Japanese model only (JA)

▲:For General Foreign model only (EK)

others:Common

Symbol No	Part No	Description		
Capacitors				
● C201	08T57298F01	CER.	0.1 μ F	
◆ E201	23T00180L08	ELY.	33 μ F/16V	
◇ C202	08T94422F01	CER.	0.47 μ F	
◆ E202	23T00180L08	ELY.	33 μ F/16V	
◇ E202	23T00180L08	ELY.	33 μ F/16V	
■ E202	23T00180L08	ELY.	33 μ F/16V	
□ E202	23T00180L08	ELY.	33 μ F/16V	
◆ C203	08S55260F13	CER.	10pF	
◇ C203	08S55260F13	CER.	10pF	
■ C203	08S55260F13	CER.	10pF	
□ C203	08S55260F13	CER.	10pF	
● C203	08S65480F13	CER.	10 μ F	
▲ C203	08S65480F13	CER.	10 μ F	
E203	23T00180L25	ELY.	10 μ F/50V	
C204	08T57705F67	MYL.	0.01 μ F	
C205	08T57705F69	MYL.	0.015 μ F	
E205	23T00180L25	MYL.	10 μ F/50V	
C206	08T57851F11	TF.	0.068 μ F	
◆ E206	23T00180L08	ELY.	33 μ F/16V	
◇ E206	23T00180L08	ELY.	33 μ F/16V	
■ E206	23T00180L08	ELY.	33 μ F/16V	
□ E206	23T00180L08	ELY.	33 μ F/16V	
C207	08T57851F13	TF.	0.1 μ F	
E207	23T00180L20	ELY.	0.47 μ F/50V	
C208	08T57705F73	MYL.	0.033 μ F	
E208	23T00180L13	ELY.	47 μ F/25V	
C209	08T57851F13	TF.	0.1 μ F	
E209	23T00180L24	ELY.	4.7 μ F/50V	
C210	08T57851F13	TF.	0.1 μ F	
E210	23T00180L21	ELY.	1 μ F/50V	
C211	08T57705F63	MYL.	4700pF	
E211	23T00180L20	ELY.	0.47 μ F/50V	
C212	08T57705F55	MYL.	1000pF	
E212	23T00180L26	ELY.	22 μ F/50V	
C213	08T57705F67	MYL.	0.01 μ F	
E213	23T00180L14	ELY.	100 μ F/25V	
C214	08T55260F13	CER.	10pF	
E214	23T00180L26	ELY.	22 μ F/50V	
C215	08T55260F13	CER.	10pF	
E215	23T00180L08	ELY.	33 μ F/16V	
C216	08T94422F01	CER.	0.47 μ F	
C217	08T94422F01	CER.	0.47 μ F	
C218	08T57851F13	TF.	0.1 μ F	
● C219	08T57851F21	TF.	0.47 μ F	
▲ C219	08T57851F21	TF.	0.47 μ F	

◆:For American model only (UZ)

■:For West Germany model only (AD)

◇:For Canadian model only (UQ),

□:For England model only (AG),

Symbol No	Part No	Description		
◆	C219	08T94422F01 CER.	0.47 μ F	
◇	C219	08T94422F01 CER.	0.47 μ F	
■	C219	08T94422F01 CER.	0.47 μ F	
□	C219	08T94422F01 CER.	0.47 μ F	
	E219	23T00180L08 ELY.	33 μ F/16V	
	C220	08T57705F59 MYL.	2200pF	
●	C221	08T57851F21 TF.	0.47 μ F	
▲	C221	08T57851F21 TF.	0.47 μ F	
■	C221	21C45322G16 CER.	33pF	
□	E221	23T00180L08 ELY.	33 μ F/16V	
	C222	08T57705F63 MYL.	4700pF	
	E222	23T00180L08 ELY.	33 μ F/16V	
	C223	08T57705F73 MYL.	0.033 μ F	
	C224	08T57705F67 MYL.,	0.01 μ F	
	C225	08T57705F67 MYL.	0.01 μ F	
	E225	23T74513F06 ELY.	18mF/5.5V	
	C226	08T57705F67 MYL.	0.01 μ F	
●	E226	23T00180L16 ELY.	330 μ F/25V	
▲	E226	23T00180L16 ELY.	330 μ F/25V	
◆	E226	23T00134L46 ELY.	1000 μ F/25V	
◇	E226	23T00134L46 ELY.	1000 μ F/25V	
■	E226	23T00134L46 ELY.	1000 μ F/25V	
□	E226	23T00134L46 ELY.	1000 μ F/25V	
	C227	08T57705F73 MYL.	0.033 μ F	
	E227	23T00180L25 ELY.	10 μ F/50V	
	C228	08T57705F69 MYL.	0.015 μ F	
	E228	23T00180L24 ELY.	4.7 μ F/50V	
	C229	08T57705F65 MYL.	6800pF	
	E229	23T00180L21 ELY.	1 μ F/50V	
	C230	08T94422F01 CER.	0.47 μ F	
●	C231	08T57298F01 CER.	0.1 μ F	
▲	C231	08T57298F01 CER.	0.1 μ F	
■	C231	21C45322G18 CER.	47pF	
□	C231	21C45322G18 CER.	47pF	
	E231	23T00133L12 ELY.	4700 μ F/16V	
	C232	08T57298F01 CER.	0.1 μ F	
	E232	23T00133L12 ELY.	4700 μ F/16V	
	C233	08T94422F01 CER.	0.47 μ F	
	C234	08T57298F01 CER.	0.1 μ F	
◆	E233	23T00180L21 ELY.	10 μ F/50V	
◇	E233	23T00180L21 ELY.	10 μ F/50V	
■	E233	23T00180L21 ELY.	10 μ F/50V	
□	E233	23T00180L21 ELY.	10 μ F/50V	
	C235	08T57298F01 CER.	0.1 μ F	
	E235	23T00180L14 ELY.	100 μ F/25V	
■	C236	08S40805F07 CER.	1000pF	
■	C236	08S40805F07 CER.	1000pF	

Symbol No	Part No	Description		
	E236	23T00180L14 ELY.	100 μ F/25V	
	C237	08T57298F01 CER.	0.1 μ F	
●	E237	23T00180L16 ELY.	330 μ F/25V	
▲	E237	23T00180L16 ELY.	330 μ F/25V	
◆	E237	23T00181L29 ELY.	330 μ F/25V	
◇	E237	23T00181L29 ELY.	330 μ F/25V	
■	E237	23T00181L29 ELY.	330 μ F/25V	
□	E237	23T00181L29 ELY.	330 μ F/25V	
■	C238	21C45322G32 CER.	0.022 μ F	
□	C238	21C45322G32 CER.	0.022 μ F	
●	C238	08T57298F01 CER.	0.1 μ F	
▲	C238	08T57298F01 CER.	0.1 μ F	
●	E238	23T00180L16 ELY.	330 μ F/25V	
▲	E238	23T00180L16 ELY.	330 μ F/25V	
◆	E238	23T00181L29 ELY.	330 μ F/25V	
◇	E238	23T00181L29 ELY.	330 μ F/25V	
■	E238	23T00181L29 ELY.	330 μ F/25V	
□	E238	23T00181L29 ELY.	330 μ F/25V	
	C239	08T94422F01 CER.	0.47 μ F	
◆	C240	08T57851F13 TF.	0.1 μ F	
◇	C240	08T57851F13 TF.	0.1 μ F	
■	C240	08T57851F13 TF.	0.1 μ F	
□	C240	08T57851F13 TF.	0.1 μ F	
	E240	23T00180L08 ELY.	33 μ F/16V	
	C241	08T00151L25 P.P	0.01 μ F	
	E241	23T00180L08 ELY.	33 μ F/16V	
	C242	08T00151L25 P.P	0.01 μ F	
	C243	08T94422F01 CER.	0.47 μ F	
	C244	08T94422F01 CER.	0.47 μ F	
	E245	23T00180L08 ELY.	33 μ F/16V	
	E246	23T00180L08 ELY.	33 μ F/16V	
	C247	08T57298F01 CER.	0.1 μ F	
	E247	23T00180L23 ELY.	3.3 μ F/50V	
	C248	08T57298F01 CER.	0.1 μ F	
	E248	23T00180L23 ELY.	3.3 μ F/50V	
	E249	23T00180L25 ELY.	10 μ F/50V	
◆	C250	08T94422F01 CER.	0.47 μ F	
◇	C250	08T94422F01 CER.	0.47 μ F	
■	C250	08T94422F01 CER.	0.47 μ F	
□	C250	08T94422F01 CER.	0.47 μ F	
	E250	23T00180L25 ELY.	10 μ F/50V	
◆	C251	08T94422F01 CER.	0.47 μ F	
◇	C251	08T94422F01 CER.	0.47 μ F	
■	C251	08T94422F01 CER.	0.47 μ F	
□	C251	08T94422F01 CER.	0.47 μ F	

Note: ●:For Japanese model only (JA)
 ▲:For General Foreign model only (EK)
 others:Common

◆:For American model only (UZ)
 ■:For West Germany model only (AD)
 ◇:For Canadian model only (UQ),
 □:For England model only (AG),

Symbol No	Part No	Description		
◆	E251	23T00180L24	ELY.	4.7 μ F/50V
◇	C252	08T94422F01	CER.	0.47 μ F
■	C252	08T94422F01	CER.	0.47 μ F
□	C252	08T94422F01	CER.	0.47 μ F
	E252	23T00180L24	ELY.	4.7 μ F/50V
	E253	23T00180L23	ELY.	3.3 μ F/50V
	E254	23T00180L23	ELY.	3.3 μ F/50V
	E257	23T00180L24	ELY.	4.7 μ F/50V
	E258	23T00180L24	ELY.	4.7 μ F/50V
	E259	23T00180L26	ELY.	22 μ F/50V
	E260	23T00180L26	ELY.	22 μ F/50V
	E261	23T00180L26	ELY.	22 μ F/50V
	E262	23T00180L26	ELY.	22 μ F/50V
	C277	08T57705F59	MYL.	2200pF
■	C2290	08T44979P10	CER.	0.022 μ F
□	C2290	08T44979P10	CER.	0.022 μ F
Jacks				
	J201	09T84124F01	HEADPHONE	
	S201			
	J202	09T15627W01	PLATE.PH1P	
Coil				
●	L201	24T50508F22	Inductor, 10 μ H	
▲	L201	24T50508F22	Inductor, 10 μ H	
◆	L201	24T70381F21	Inductor, 10 μ H	
◇	L201	24T70381F21	Inductor, 10 μ H	
■	L201	24T70381F21	Inductor, 10 μ H	
□	L201	24T70381F21	Inductor, 10 μ H	
Resistors				
	R2201	06T74182F09	Block 270K ohm X15	
	R2202	06T74182F08	Block 270K ohm X8	
	VR201	18T15355W15	Variable RH064AC 22K ohm	
	VR202	18T15355W09	Variable RH064AC 2.2Kohm	
	VR203	18T15355W15	Variable RH064AC 22K ohm	
	VR204	18T15355W15	Variable RH064AC 22K ohm	
	VR205	18T15355W15	Variable RH064AC 22K ohm	
Trans				
	T201	25T94882F01	PULS	
Crystals				
	X201	91T15285W01	Ceramic LOCK 4.19MHz	
	X202	48T84727F02	AT-51 16.9344MHz	

Note: ●:For Japanese model only (JA)

▲:For General Foreign model only (EK)

others:Common

Symbol No	Part No	Description		
Power Supply P.C. Board				
IC's				
	IC101	51T80136F01	M5238P	
	IC102	51T80136F01	M5238P	
Transistors				
	Q101	48T64375F01	2SA1360	
	Q102	48T60555F01	2SC3298	
	Q103	48T57305F04	2SD1302	
	Q104	48T57305F04	2SD1302	
	Q105	48T57305F04	2SD1302	
◆	Q106	48T57305F04	2SD1302	
◇	Q107	48T57805F04	2SD1302	
■	Q107	48T57805F04	2SD1302	
□	Q107	48T57805F04	2SD1302	
◆	Q108	48T57805F04	2SD1302	
◇	Q108	48T57805F04	2SD1302	
■	Q108	48T57805F04	2SD1302	
□	Q108	48T57805F04	2SD1302	
Diodes				
	D101	48S40477U01	1N4003	
	D102	48S40477U01	1N4003	
	D103	48S40477U01	1N4003	
	D104	48S40477U01	1N4003	
	D105	48S40477U01	1N4003	
	D106	48S40477U01	1N4003	
	D107	48S40477U01	1N4003	
	D108	48S40477U01	1N4003	
●	ZD101	48T52740F02	ZEN. HZ33-2	
	ZD102	48T52739F95	ZEN. HZ27-2	
▲	ZD102	48T52739F95	ZEN. HZ27-2	
◆	ZD102	48T68697F72	ZEN. HZS27EB1	
◇	ZD102	48T68697F72	ZEN. HZS27EB1	
■	ZD102	48T68697F72	ZEN. HZS27EB1	
□	ZD102	48T68697F72	ZEN. HZS27EB1	
Capacitors				
●	C101	08T57437F09	CER.	0.01 μ F
▲	C101	08T57437F09	CER.	0.01 μ F
◆	C101	08T00196L01	CER.	0.01 μ F
◇	C101	08T00196L01	CER.	0.01 μ F
■	C101	08T00196L01	CER.	0.01 μ F

◆:For American model only (UZ)

■:For West Germany model only (AD)

◇:For Canadian model only (UQ)

□:For England model only (AG)

Symbol No	Part No	Description		
Capacitors				
□	C101	08T00196L01	CER.	0.01 μ F
●	C102	08T57437F09	CER.	0.01 μ F
▲	C102	08T57437F09	CER.	0.01 μ F
◆	C102	08T00196L01	CER.	0.01 μ F
◇	C102	08T00196L01	CER.	0.01 μ F
■	C102	08T00196L01	CER.	0.01 μ F
□	C102	08T00196L01	CER.	0.01 μ F
	E101	23T00133L38	ELY.	470 μ F/50V
	E102	23T00181L23	ELY.	3300 μ F/16V
●	C103	08T50579F13	TF.	0.1 μ F
▲	C103	08T50579F13	TF.	0.1 μ F
◆	C103	08T57851F13	TF.	0.1 μ F
◇	C103	08T57851F13	TF.	0.1 μ F
■	C103	08T57851F13	TF.	0.1 μ F
□	C103	08T57851F13	TF.	0.1 μ F
	E103	23T00181L73	ELY.	100 μ F/100V
◆	C104	08T94422F01	CER.	0.47 μ F
◇	C104	08T94422F01	CER.	0.47 μ F
■	C104	08T94422F01	CER.	0.47 μ F
□	C104	08T94422F01	CER.	0.47 μ F
	E104	23T00181L77	ELY.	470 μ F/100V
	E105	23T00133L38	ELY.	470 μ F/50V
	E106	23T00181L77	ELY.	470 μ F/100V
	E107	23T00137L13	ELY.	33 μ F/160V
	E108	23T00137L13	ELY.	33 μ F/160V
◆	E109	23T00180L25	ELY.	10 μ F/50V
◇	E109	23T00180L25	ELY.	10 μ F/50V
■	E109	23T00180L25	ELY.	10 μ F/50V
□	E109	23T00180L25	ELY.	10 μ F/50V
◆	E110	23T00180L23	ELY.	3.3 μ F/50V
◇	E110	23T00180L23	ELY.	3.3 μ F/50V
■	E110	23T00180L23	ELY.	3.3 μ F/50V
□	E110	23T00180L23	ELY.	3.3 μ F/50V
	E111	23T00180L08	ELY.	33 μ F/16V
	E112	23T00180L08	ELY.	33 μ F/16V
	E113	23T00180L24	ELY.	4.7 μ F/50V
	E114	23T00180L24	ELY.	4.7 μ F/50V
Jacks				
	J101	09T15974W01	2P T6302-D105U	
	J102	09T15974W01	2P T6302-D105U	
Coil				
	L101	24T82315F01	LINE FK0B160MH02	
Switch				
	S101	40T15820W01	PUSH POWER (Power)	

Note: ●:For Japanese model only (JA)

▲:For General Foreign model only (EK)

others:Common

Symbol No	Part No	Description		
Volume Control				
VR101 M101	18T10803W02	Volume, RK16313MA		
Remote P.C. Board				
IC				
IC501 or	51T16094W01 51T16094W02	GP1U521 GP1U521X		
Capacitor				
●	C501	08T57298F01	CER.	0.1 μ F
▲	C501	08T57298F01	CER.	0.1 μ F
◆	C501	08T44979P14	CER.	0.1 μ F
◇	C501	08T44979P14	CER.	0.1 μ F
■	C501	08T44979P14	CER.	0.1 μ F
□	C501	08T44979P14	CER.	0.1 μ F
LED				
L0501	48T60947F05	SLH-34VR3F (RED)		
Tube P.C. Board 1				
Resistors				
R705	06T92261F26	MF. 2.4 ohm 2W		
R706	06T92261F26	MF. 2.4 ohm 2W		
Tube P.C. Board 2				
Capacitors				
C401A	08T00019L10	MTL.	2.2 μ F	
C401B	08T00019L06	MTL.	1 μ F	
E401	23T00137L12	ELY.	22 μ F/160V	
C402A	08T00019L10	MTL.	2.2 μ F	
C402B	08T00019L06	MTL.	1 μ F	
E402	23T00137L12	ELY.	22 μ F/160V	
C403	08T00019L02	MTL.	0.22 μ F	
C404	08T00019L02	MTL.	0.22 μ F	
C405	08T00151L17	P.P	2200pF	
C406	08T00151L17	P.P	2200pF	
FL/Key Board P.C. Board				
Diodes				
D301	48T84758F01	1SS270		
D302	48T84758F01	1SS270		
D303	48T84758F01	1SS270		
D304	48T84758F01	1SS270		
D305	48T84758F01	1SS270		

◆:For American model only (UZ)

■:For West Germany model only (AD)

◇:For Canadian model only (UQ)

□:For England model only (AG)

Symbol No	Part No	Description		
D306	48T84758F01	ISS270		
D307	48T84758F01	ISS270		
D308	48T84758F01	ISS270		
D309	48T84758F01	ISS270		
D310	48T84758F01	ISS270		
D311	48T84758F01	ISS270		
D312	48T84758F01	ISS270		
Switchs				
S301	40T83324F11	Tact SKHHAP (REPEAT)		
S302	40T83324F11	Tact SKHHAP (6)		
S303	40T83324F11	Tact SKHHAP (0)		
S304	40T83324F11	Tact SKHHAP (A-PAUSE)		
S305	40T83324F11	Tact SKHHAP (7)		
S306	40T83324F11	Tact SKHHAP (1)		
S307	40T83324F11	Tact SKHHAP (A-SCN)		
S308	40T83324F11	Tact SKHHAP (8)		
S309	40T83324F11	Tact SKHHAP (2)		
S310	40T83324F11	Tact SKHHAP (M-CHECK)		
S311	40T83324F11	Tact SKHHAP (9)		
S312	40T83324F11	Tact SKHHAP (3)		
S313	40T83324F11	Tact SKHHAP (RANDOM)		
S314	40T83324F11	Tact SKHHAP (10)		
S315	40T83324F11	Tact SKHHAP (4)		
S316	40T83324F11	Tact SKHHAP (EDIT)		
S317	40T83324F11	Tact SKHHAP (+10)		
S318	40T83324F11	Tact SKHHAP (5)		
S319	40T83324F11	Tact SKHHAP (STOP)		
S320	40T83324F11	Tact SKHHAP (CLEAR)		
S321	40T83324F11	Tact SKHHAP (PAUSE)		
S322	40T83324F11	Tact SKHHAP (PROGRAM)		
S323	40T83324F11	Tact SKHHAP (PLAY)		
S324	40T83324F11	Tact SKHHAP (OPEN/CLOSE)		
S325	40T83324F11	Tact SKHHAP (SKIP+UP)		
S326	40T83324F11	Tact SKHHAP (BACKWORD)		
S327	40T83324F11	Tact SKHHAP (FORWORD)		
S328	40T83324F11	Tact SKHHAP (SKIP-DOWN)		
S329	40T83324F11	Tact SKHHAP (DISP.ADJ)		
S330	40T83324F11	Tact SKHHAP (TIME-DISP)		
Fade P.C. Board				
S901	40T83324F11	Tact SKHHAP (T.FADE-OUT)		
S902	40T83324F11	Tact SKHHAP (VOL.DOWN)		
S903	40T83324F11	Tact SKHHAP (VOL.UP)		
S904	40T83324F11	Tact SKHHAP (FADE-OUT)		

Symbol No	Part No	Description		
Miscellaneous				
●	C801	08T57298F01	Cap., Cer. 0.1 μ F	
▲	C801	08T57298F01	Cap., Cer. 0.1 μ F	
◆	C801	08T44979P14	Cap., Cer. 0.1 μ F	
◇	C801	08T44979P14	Cap., Cer. 0.1 μ F	
■	C801	08T44979P14	Cap., Cer. 0.1 μ F	
□	C801	08T44979P14	Cap., Cer. 0.1 μ F	
FL301	65T15386W01	FL, Display FV335G		
▲	F102	65T42077U11	Fuse, Semko 315mA	
■	F102	65T42077U11	Fuse, Semko 315mA	
□	F102	65T42077U11	Fuse, Semko 315mA	
IC105	51T16168W01	IC. μ PC2412HF		
J801	09T66672F01	J90K, Head Phone		
●	P801	28T67434F01	Plug, AC Cord	
▲	P801	28T43812P04	Plug, AC Cord	
■	P801	28T43812P04	Plug, AC Cord	
□	P801	28T44061F05	Plug, AC Cord	
◆	P801	28T55335F02	Plug, AC Cord	
◇	P801	28T55335F02	Plug, AC Cord	
Q701	65T00091L01	Tube (6CG7)		
Q702	65T00091L01	Tube (6CG7)		
R601	06T92262F23	Res, MF 1.8 ohm 3W		
R602	06T92262F23	Res, MF 1.8 ohm 3W		
S601	40T15685W01	SW. Push (Pre-Heat)		
●	T101	25T16178W01	Trans, Power	
▲	T101	25T16178W02	Trans, Power	
■	T101	25T16178W02	Trans, Power	
□	T101	25T16178W02	Trans, Power	
◆	T101	25T16178W03	Trans, Power	
◇	T101	25T16178W03	Trans, Power	

Note: ●: For Japanese model only (JA)

▲: For General Foreign model only (EK)

Other: Common

◆: For American model only (UZ)

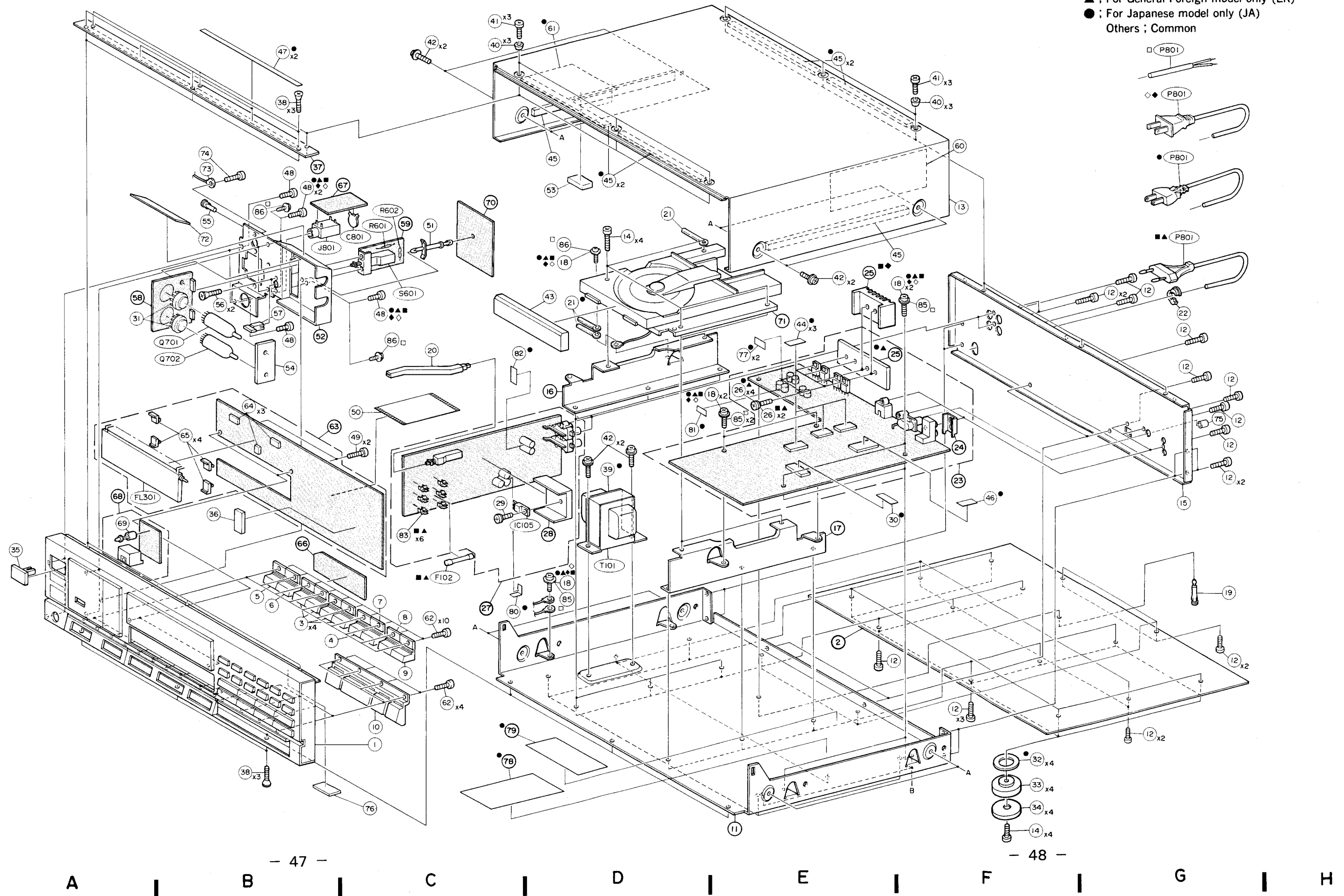
■: For West Germany model only (AD)

◇: For Canadian model only (UQ)

■: For England model only (AG)

Exploded View(Cabinet)

- Note :
 ◇ ; For Canadian model only (UQ)
 □ ; For England model only (AG)
 ◆ ; For American model only (UZ)
 ■ ; For West Germany model only (AD)
 ▲ ; For General Foreign model only (EK)
 ● ; For Japanese model only (JA)
 Others ; Common



Note: The parts without part numbers are not supplied.

Symbol No	Index	Part No	Description
● 30	4-F	14S94461F85	Insulator, Cover
31	3-A	09T64527F02	Socket, Tube
● 32	5-F	75A13129W01	Pad, Trannleg
▲ 33	5-F	75A67063F03	Trannleg
■ 33	5-F	75A67063F03	Trannleg
□ 33	5-F	75A67063F03	Trannleg
◆ 33	5-F	75A67063F03	Trannleg
◇ 33	5-F	75A67063F03	Trannleg
● 33	5-F	75B80720F04	Trannleg, set G
▲ 34	5-F	75A94848F01	Pad, Felt
■ 34	5-F	75A94848F01	Pad, Felt
□ 34	5-F	75A94848F01	Pad, Felt
◆ 34	5-F	75A94848F01	Pad, Felt
◇ 34	5-F	75A94848F01	Pad, Felt
● 34	5-F	75A80719F01	Pad, Trannleg
35	4-A	36A67330F01	Knob, Power
● 36	4-B	75S72374F91	Cushion Rubber
38		03S44205G50	Screw, Countersink (3M×6)
● 39	3-D	14S20478W02	Insulator, Cover
40		13A13279W01	ESC, Screw, (N)
41		03S52360F36	Screw, Bind (M4×8)
42	1-C	03S40036U01	Screw, W/Washer (M4×8)
43	3-D	63B11870W01	Tray, Panel
● 44	3-E	14S94461F86	Insulator, Cover
45	1-E	75S12196W27	Cushion, Rubber
● 46	4-F	14S94461F87	Insulator, Cover
● 47	1-B	14S96390F69	Insulator, Cover
48	3-B	03S63857F23	Screw, Tapping (M2.6×8)
49	3-C	03S40018G17	Screw, Tapping (M2.6×8)
50	3-C	30T15818W01	Wire, Push Parallel 29P
51	2-C	43T16241W08	Support, PCB
53	2-D	75S12196W40	Cushion, Rubber
54	3-B	75A67341F01	Cushion, Tube
55	2-B	05B41635J03	Rivet, Push
56	3-B	03S43997P42	Screw, Countersink (M3×5)
57	3-B	36A67333F01	Knob, Push
● 60	2-F	14S96390F70	Insulator, Cover
● 61	1-D	14S20478W01	Insulator, Cover
62		03S40012G18	Screw, Tapping (M2.6×6)
64	3-B	75S12196F21	Cushion, Rubber

◆:For American model only (US)
 ■:For West German model only (AD)
 ◇:For Canadian model only (UQ)
 □:For England model only (AG)

[illegible]

◆:For American model only (US)
 ■:For West German model only (AD)
 ◇:For Canadian model only (UQ)
 □:For England model only (AG)

Packing Assembly Parts List

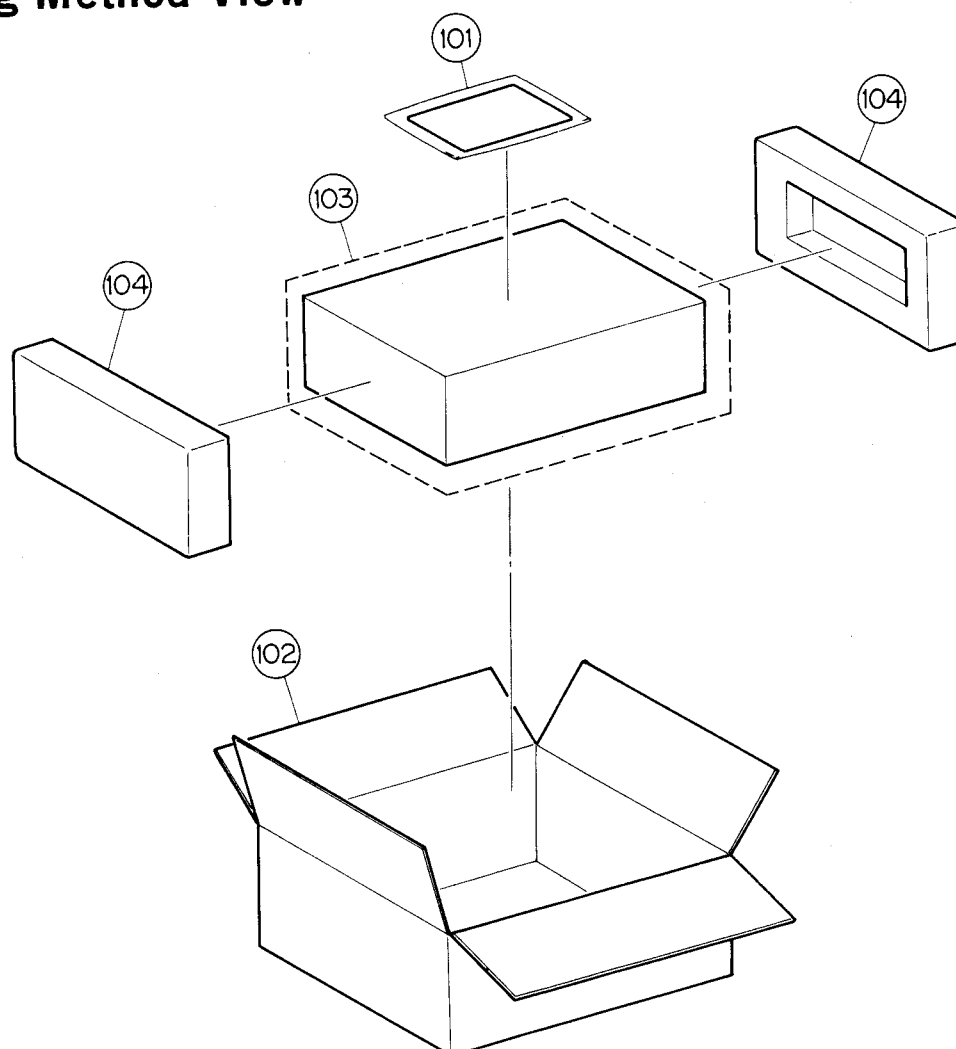
Symbol No	Part No	Description		
●	101-1	68P96552F25	Owners, Manual	
◆	101-1	68P96552F26	Owners, Manual	
◇	101-1	68P96552F27	Owners, Manual	
▲	101-1	68P96552F27	Owners, Manual	
■	101-1	68P96552F27	Owners, Manual	
□	101-1	68P96552F27	Owners, Manual	
	101-2	01T82091F01	Assy., Mini Plug Cord	
●	101-3	01T16150W01	Unit, Remocon	
▲	101-3	01T16150W02	Unit, Remocon	
■	101-3	01T16150W02	Unit, Remocon	
◆	101-3	01T16150W02	Unit, Remocon	
◇	101-3	01T16150W02	Unit, Remocon	
□	101-3	01T16150W02	Unit, Remocon	

Symbol No	Part No	Description		
	101-4	60T58064F01	Battery, SUM-3	
	101-5	28T67347F04	Plug, Output	
◆	101-6	01T84773F01	Fiber, TOCP172-150CB	
◇	101-6	01T84773F01	Fiber, TOCP172-150CB	
■	101-6	01T84773F01	Fiber, TOCP172-150CB	
●	102	56S10005W27	Carton, Packing	
◆	102	56S10005W27	Carton, Packing	
▲	102	56S10005W27	Carton, Packing	
■	102	56S10005W27	Carton, Packing	
□	102	56S10005W27	Carton, Packing	
◇	102	56S10005W28	Carton, Packing	
	103	56B40442T08	Packing, Front Frame	
	104	56D11887W01	Tray, Packing	

Note: ●: For Japanese model only (JA)
 ▲: For General Foreign model only (EK)
 Others: Common

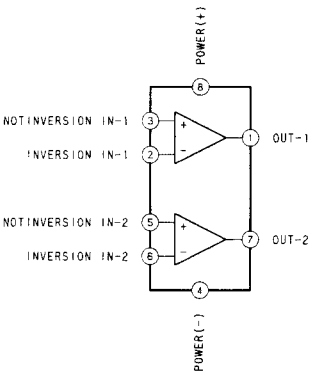
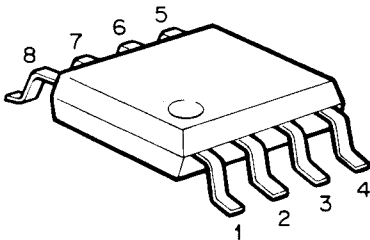
◆: For American model only (UZ)
 ■: For West German model only (AD)
 ◇: For Canadian model only (LQ)
 □: For England model only (AG)

Packing Method View

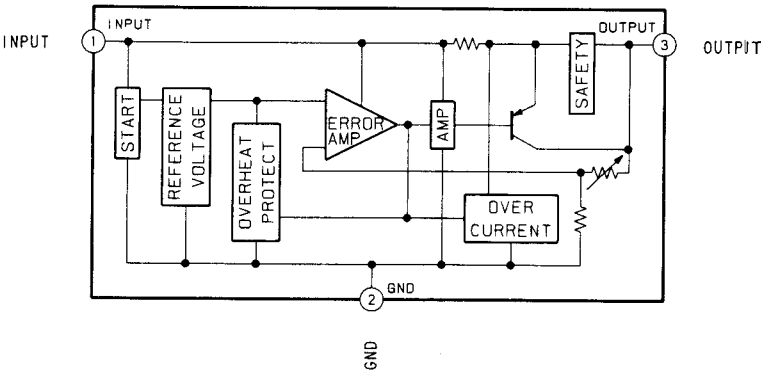
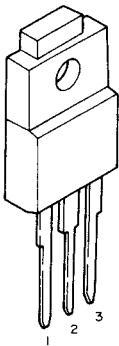


Semi-Conductor Lead Identifications

M5238P : IC101, 102

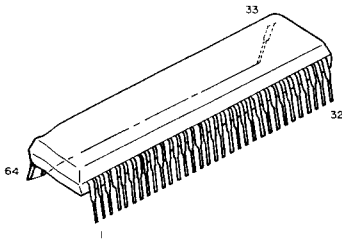


μPC2412HF : IC105



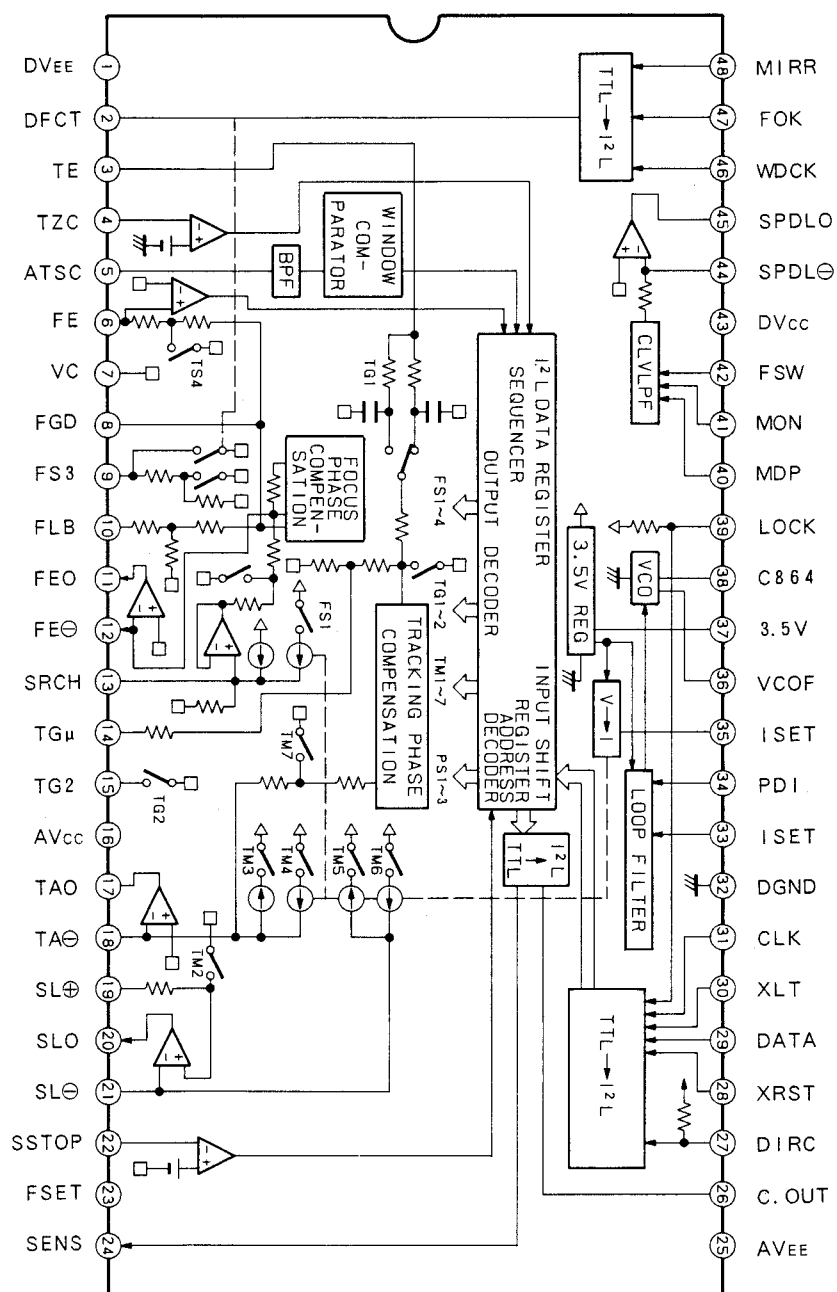
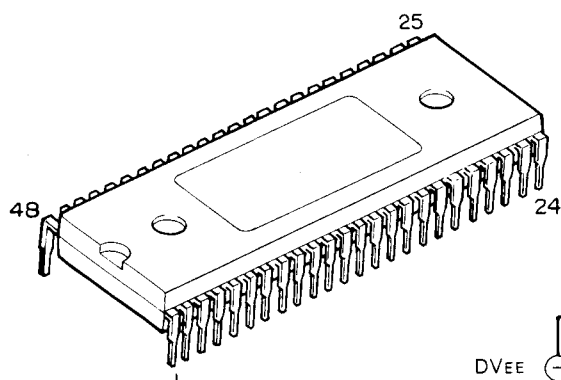
15365W02 : IC201 (JA/EK Model only)

15749W02 : IC201 (AD/UZ/AG/UQ Model only)

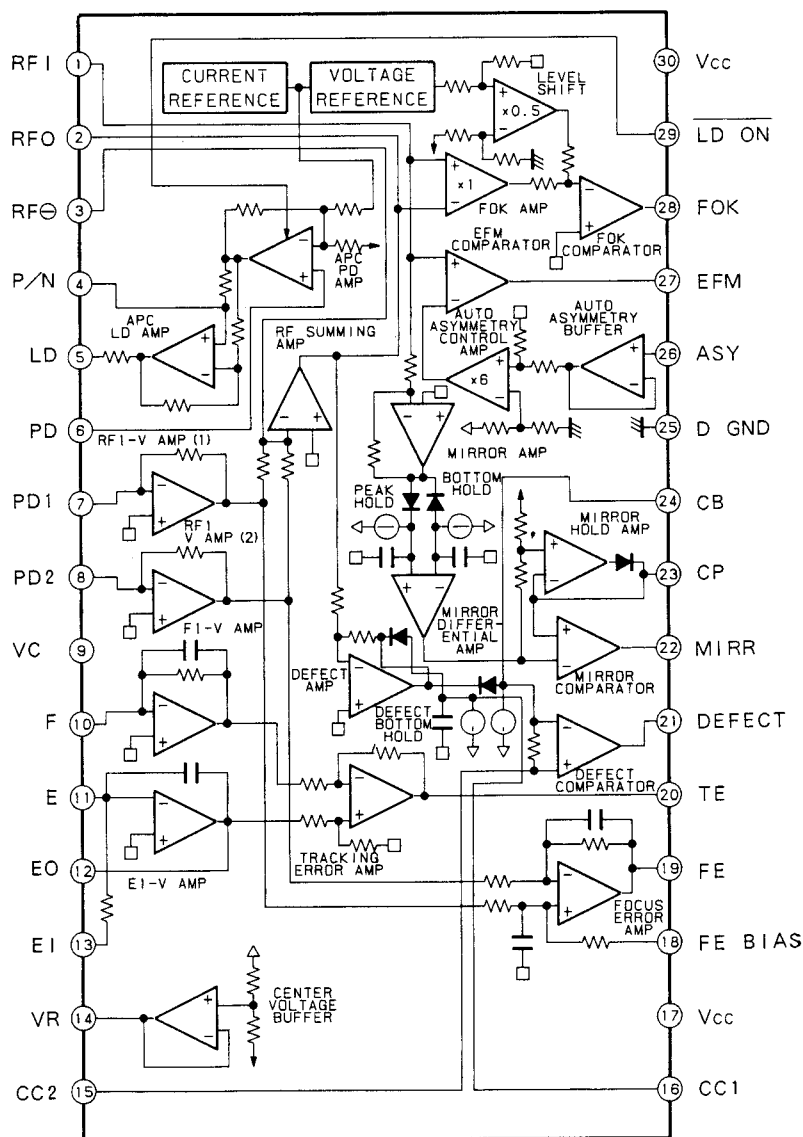
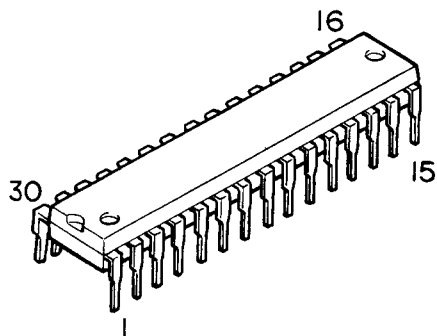


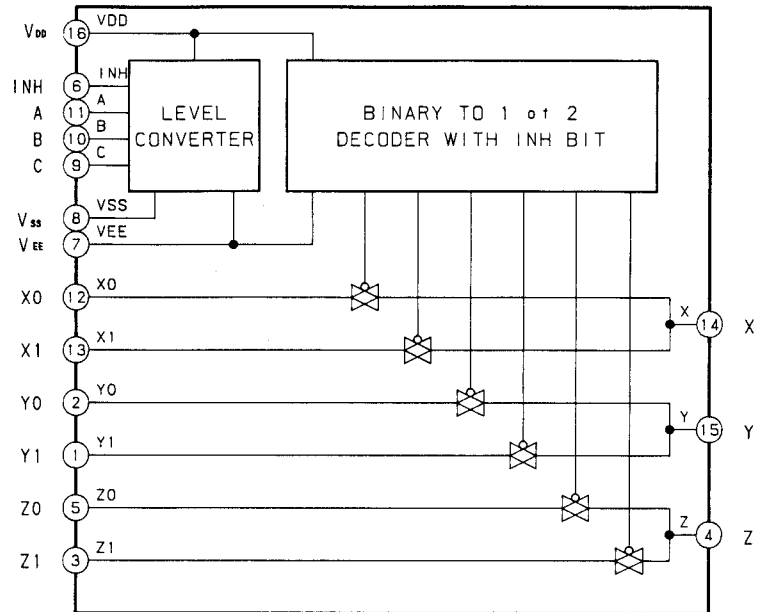
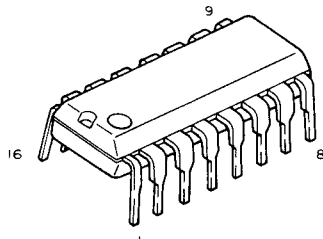
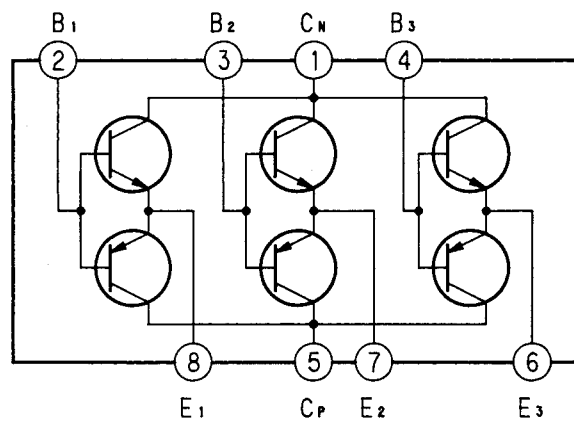
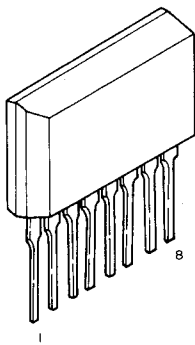
1	SEG4	17	EMPHA	33	SQ CK	49	OSC
2	SEG3	18	GFS	34	SUBQ	50	GND
3	SEG2	19	-35V	35	FOK	51	GND
4	SEG1	20	A.MUTE	36	PWM	52	NC
5	SEG0	21	CLOSE SW	37	SENS	53	+5V
6	DIG0(1G)	22	OPEN SW	38	NC	54	VOL CP
7	DIG1(2G)	23	LD ON	39	MUTE	55	VOL UP
8	DIG2(3G)	24	XRST	40	RHT SW	56	VOL DOWN
9	DIG3(4G)	25	XLT	41	CLOSE	57	SEG12
10	DIG4(5G)	26	DATA	42	OPEN	58	SEG11
11	DIG5(6G)	27	CLK	43	SWRTN	59	SEG10
12	DIG6(7G)	28	POWER	44	KRTN2	60	SEG9
13	DIG7(8G)	29	SCOR	45	KRTN1	61	SEG8
14	DIG8(9G)	30	RMC	46	KRTN0	62	SEG7
15	DIG9(10G)	31	NC	47	RESET	63	SEG6
16	DIMM	32	+5V	48	OSC	64	SEG5

CXA1082BS : IC202



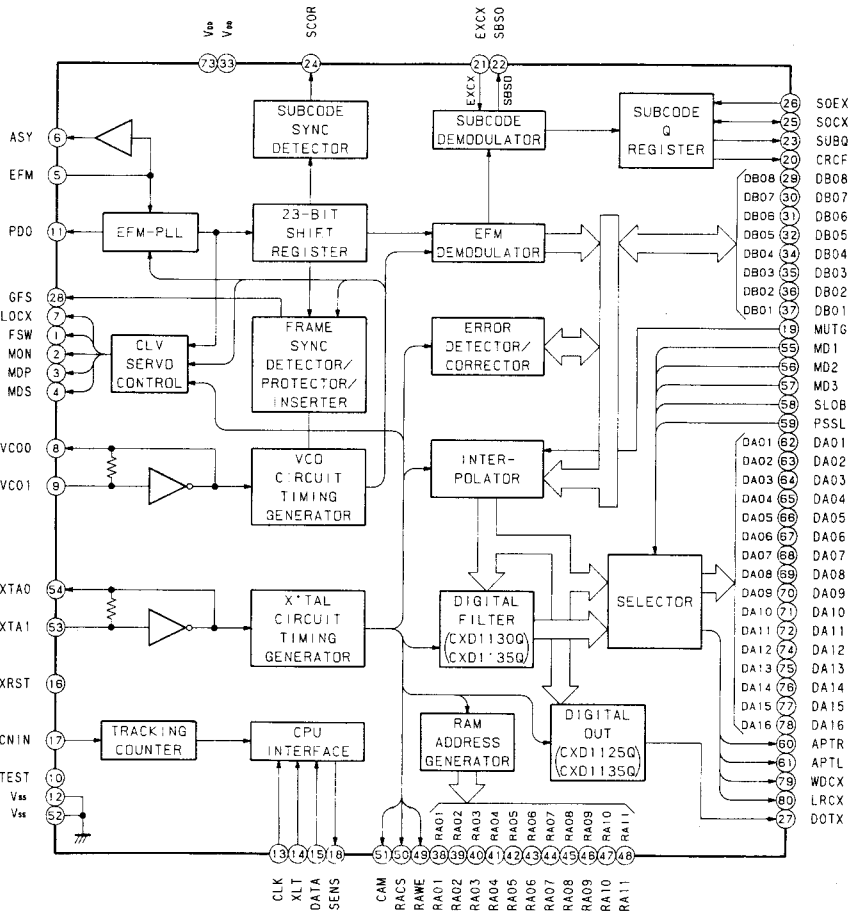
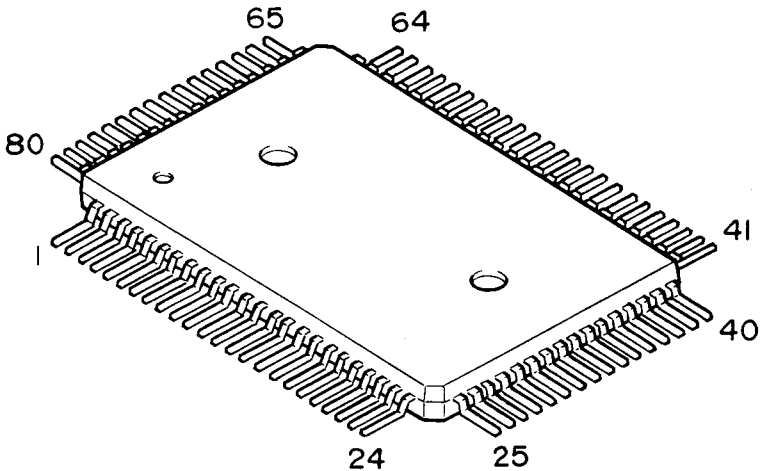
CXA1081S : IC203

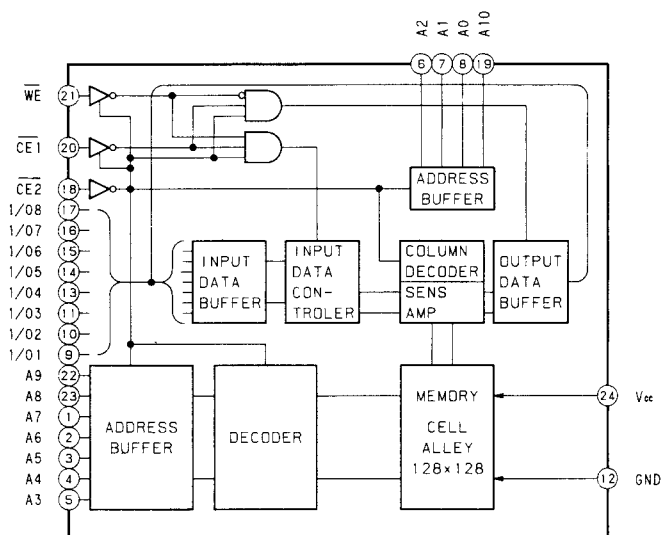
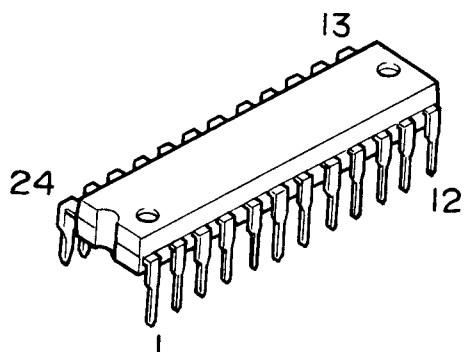
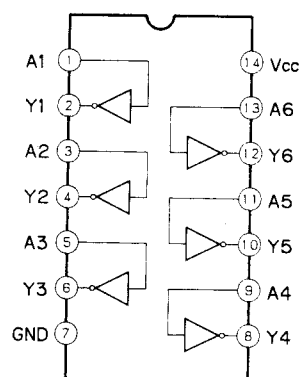
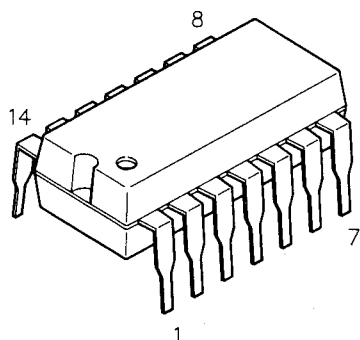
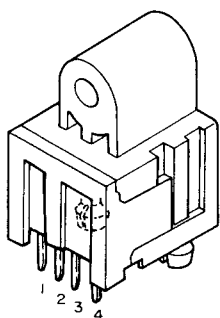


MC14053 : IC204 (JA/EK Model only)**STA341M : IC204 (AD/UZ/AG/UQ Model only)**

B. Base
C. Collector
E. Emitter

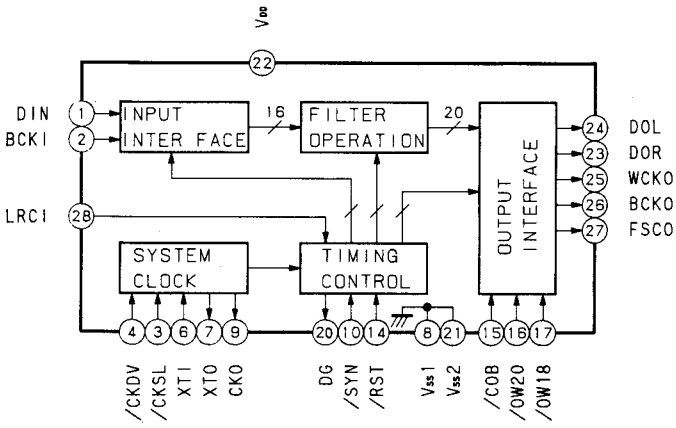
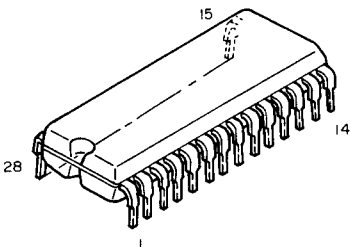
CXD1125QZ : IC205



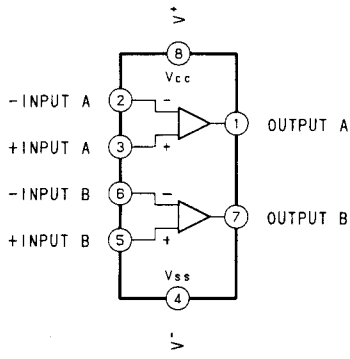
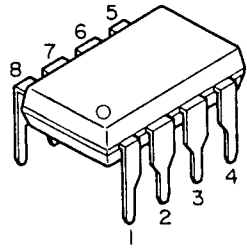
LC3516AS : IC206**MC74HCU04 : IC207****HFBR1550 : IC208**

	Transmitter	Receiver
1	LED-Anode	V_{ccd}
2	LED-Cathode	V_{out}
3	N.C	GRD
4	N.C	V_{cca}

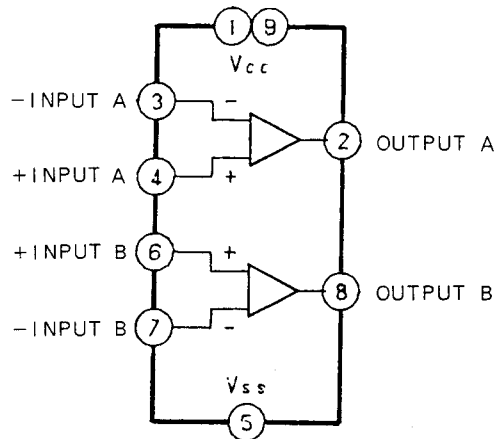
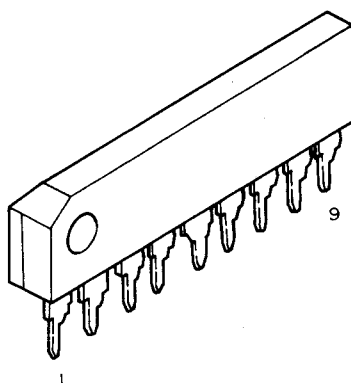
SM5813AP : IC209

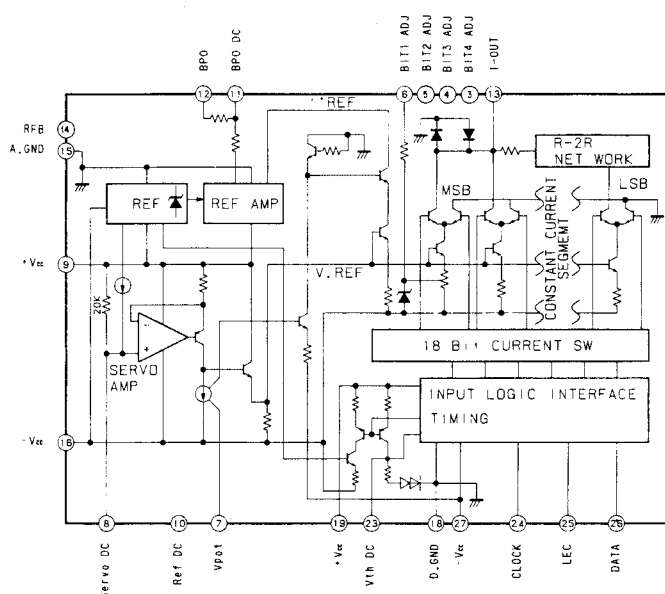
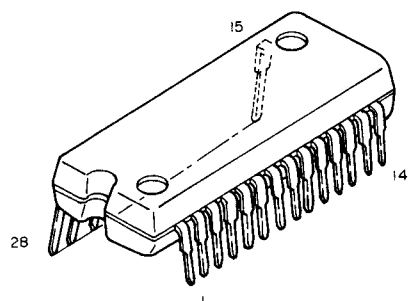
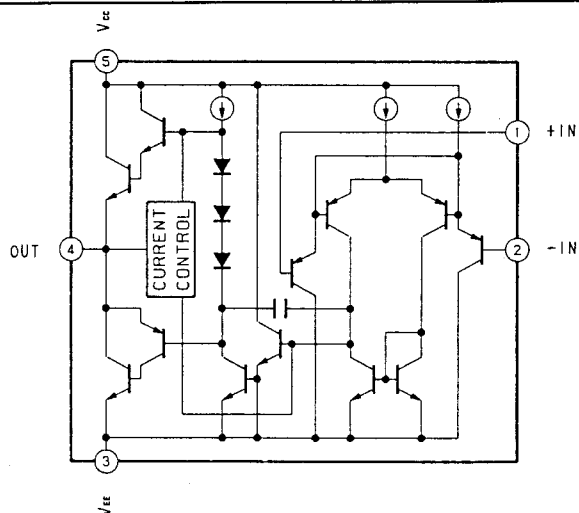
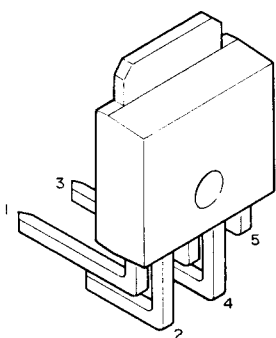
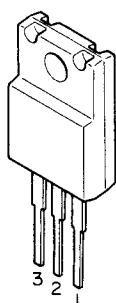


NJM2903D : IC210 (JA/EK Model only)

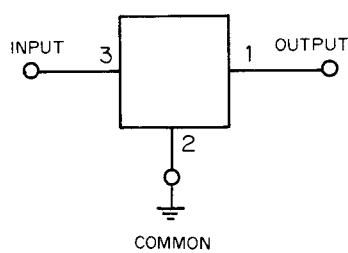


NJM2903S : IC210 (AD/UZ/AG/UQ Model only)

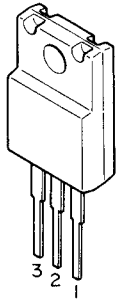


PCM701P : IC211, 212**LA6501 : IC213, 218****NJM7805 : IC214**

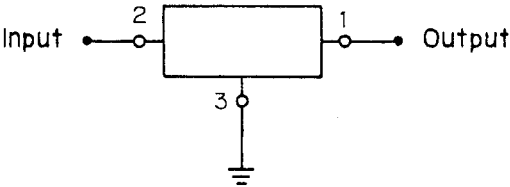
1. Output
2. Common
3. Input



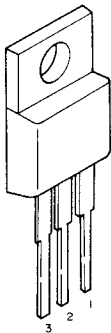
NJM7905 : IC215, IC217



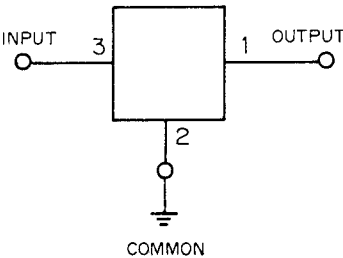
- 1. Output
- 2. Input
- 3. Common



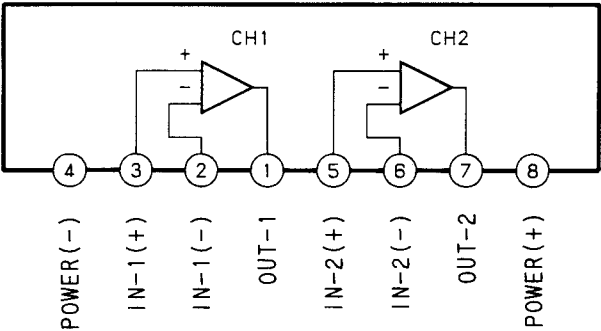
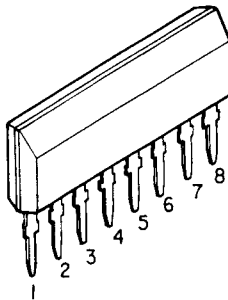
NJM7808 : IC216 (JA/EK Model only)
NJM7808FA : IC216 (AD/UZ Model only)

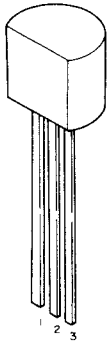


- 1. Output
- 2. Common
- 3. Input

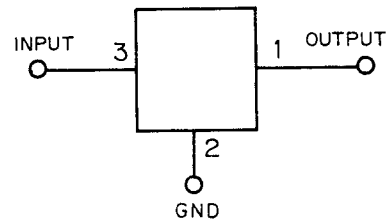
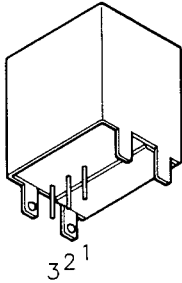


M5238L : IC219, 220

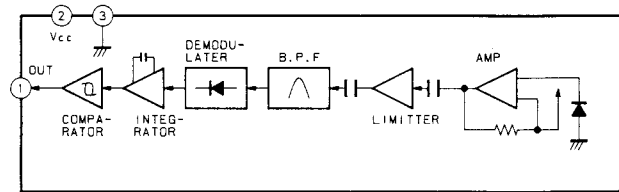


NJM78L05A : IC221

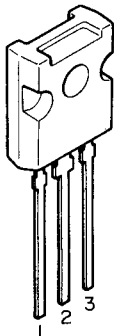
1. Output
2. GND
3. Input


GP1U521 : IC501
or GP1U521X


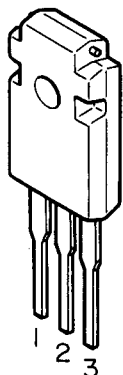
1. V_{OUT}
2. V_{CC}
3. GND



- 2SA1360 : Q101**
2SC3421 : Q212
 : Q214, 216, 218 (JA/EK Model only)
2SA1358 : Q213
 : Q215, 217, 219 (JA/EK Model only)



1. Emitter
2. Collector
3. Base

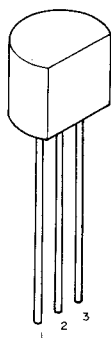
2SC3298 : Q102

- 1. Base
- 2. Collector
- 3. Emitter

2SD1302 : Q103, 104, 105, 106, 221, 222
: Q107, 108 (AD/UZ/AG/UQ Model only)

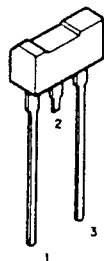
2SA854Q : Q201

2SA950 : Q223 (AD/UZ/AG/UQ Model only)

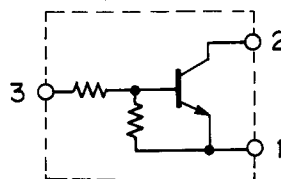


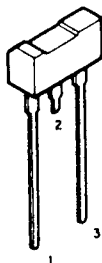
- 1. Emitter
- 2. Collector
- 3. Base

DTC114EL : Q204, 207, 208, 209
: Q224, 225 (AD/UZ/AG/UQ Model only)

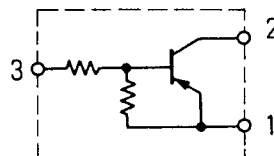
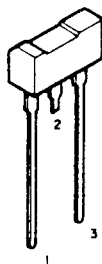


- 1. Emitter
- 2. Collector
- 3. Base

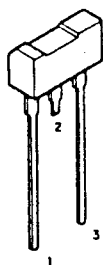


DTA114EL : Q205, 206

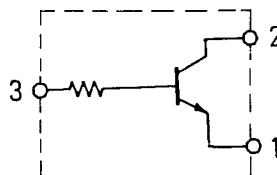
- 1. Emitter
- 2. Collector
- 3. Base

**2SC4038** : Q210, 211
2SB1277 : Q220

- 1. Emitter
- 2. Collector
- 3. Base

DTC124TL : Q226 (AD/UZ/AG/UQ Model only)

- 1. Emitter
- 2. Collector
- 3. Base





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