

Service Manual

CD Stereo System

Model No. **SA-AK785LM-K**

Product Color: (K)...Black Type

Rev. 01



Remote
Control
Transmitter



SB-WAK780



SB-AK780



SA-AK785



SB-AK780



SH-FX785



SB-AK785



SB-AK785

Notes: This model's CD Mechanism Unit (CR14C). Please refer to the Original Service Manual (Order No. MD0805031CE) for this CD Mechanism Unit.

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by ⚠ in the Schematic Diagrams, Circuit Board Diagrams, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

Nota: El idioma original de este Manual de Servicio es en idioma inglés, sin embargo algunas notas aquí mencionadas serán escritas en español para mejor descripción para Centros de Servicio de México.

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TABLE OF CONTENTS

1 Safety Precautions

- 1.1. General Guidelines
- 1.3. Caution For Fuse Replacement
- 1.4. Before Repair and Adjustment
- 1.5. Protection Circuitry
- 1.6. Safety Parts Information

2 Warning

- 2.1. Prevention of Electrostatic Discharge (ESD) to Electrostatic Sensitive (ES) Devices
- 2.2. Precaution of Laser Diode
- 2.3. Service caution based on Legal restrictions
- 2.4. Handling Precautions for Traverse Unit

3 Service Navigation

- 3.1. Service Information

4 Specifications

5 Location of Controls and Components

- 5.1. Main Unit Key Button Operation
- 5.2. Remote Control Key Button Operation
- 5.3. Disc Information

6 Self-Diagnosis and Special Mode Setting

- 6.1. Doctor Mode Summary Table
- 6.2. Doctor Mode Table
- 6.3. Service Mode Summary Table
- 6.4. Service Mode Table
- 6.5. Reliability Test Mode (CD Mechanism Unit CR14C)
- 6.6. Error Code Table

7 Troubleshooting Guide

- 7.1. Jupiter USB
- 7.2. Troubleshooting Guide
- 7.3. Troubleshooting Guide for F61 and/or F76

8 Service Fixture & Tools

- 8.1. Service Tools and Equipment

9 Disassembly and Assembly Instructions

- 9.1. Disassembly Flow Chart
- 9.2. Main Components and P.C.B. Locations
- 9.3. Disassembly of Top Cabinet
- 9.4. Disassembly of CD Mechanism Unit (CR14C)
- 9.5. Disassembly of Rear Panel
- 9.6. Disassembly of Fan Unit
- 9.7. Disassembly of Front Panel Assembly
- 9.8. Disassembly of Mic P.C.B.
- 9.9. Disassembly of Panel P.C.B.
- 9.10. Disassembly of Dynamic Bass Knob & Dynamic Bass Button Unit
- 9.11. Disassembly of Memory P.C.B.
- 9.12. Disassembly of MPort/Headphone P.C.B.
- 9.13. Disassembly of CD Servo P.C.B.
- 9.14. Disassembly of D-Amp P.C.B. & Fan
- 9.15. Replacement of Audio Digital Amp IC (IC5400)
- 9.16. Replacement of Audio Digital Amp IC (IC5000)
- 9.17. Replacement of Audio Digital Amp IC (IC5200)
- 9.18. Disassembly of Main P.C.B.
- 9.19. Disassembly of SMPS P.C.B.

- 9.20. Replacement of Switching Regulator IC

- 9.21. Replacement of Rectifier Diode (D5702)
- 9.22. Replacement of Regulator Diode (D5801)
- 9.23. Replacement of Regulator Diode (D5802)
- 9.24. Replacement of Regulator Diode (D5803)
- 9.25. Disassembly of AC Inlet P.C.B.
- 9.26. Disassembly of Jupiter P.C.B.
- 9.27. Replacement of Traverse Unit Assembly
- 9.28. Disassembly of CD Lid

10 Service Position

- 10.1. Checking and Repairing of Main P.C.B.
- 10.2. Checking and Repairing of Panel P.C.B., MIC P.C.B., Jupiter P.C.B. and MPort/Headphone P.C.B.
- 10.3. Checking and Repairing of D-Amp P.C.B.
- 10.4. Checking and Repairing of SMPS P.C.B. and AC Inlet P.C.B.

11 Voltage & Waveform Chart

- 11.1. CD Servo P.C.B.
- 11.2. Main P.C.B. (1/3)
- 11.3. Main P.C.B. (2/3)
- 11.4. Main P.C.B. (3/3)
- 11.5. Panel P.C.B.
- 11.6. D-Amp P.C.B.
- 11.7. Jupiter P.C.B. (1/2)
- 11.8. Jupiter P.C.B. (2/2)
- 11.9. Mic P.C.B.
- 11.10. SMPS P.C.B.
- 11.11. Waveform Table (1/3)
- 11.12. Waveform Table (2/3)
- 11.13. Waveform Table (3/3)

12 Illustration of ICs, Transistor and Diode

13 Block Diagram

- 13.1. CD Servo Block Diagram
- 13.2. Jupiter Block Diagram
- 13.3. Main(1/2) Block Diagram
- 13.4. Main(2/2) Block Diagram
- 13.5. Panel / MPort/Headphone / Mic / Memory Block Diagram
- 13.6. D-Amp Block Diagram
- 13.7. SMPS / AC Inlet Diagram

14 Wiring Connection Diagram

15 Schematic Diagram Notes

16 Schematic Diagram

- 16.1. CD Servo Circuit
- 16.2. Main Circuit (1/6)
- 16.3. Main Circuit (2/6)
- 16.4. Main Circuit (3/6)
- 16.5. Main Circuit (4/6)
- 16.6. Main Circuit (5/6)
- 16.7. Main Circuit (6/6)
- 16.8. Panel Circuit (1/2)
- 16.9. Panel Circuit (2/2)
- 16.10. Memory / MPort/Headphone / Mic Circuit

- 16.11. D-Amp Circuit (1/2)
- 16.12. D-Amp Circuit (2/2)
- 16.13. Jupiter Circuit (1/4)
- 16.14. Jupiter Circuit (2/4)
- 16.15. Jupiter Circuit (3/4)
- 16.16. Jupiter Circuit (4/4)
- 16.17. SMPS Circuit (1/2)
- 16.18. SMPS Circuit (2/2)
- 16.19. AC Inlet Circuit

17 Printed Circuit Board

- 17.1. CD Servo / Jupiter P.C.B.
- 17.2. Main P.C.B.
- 17.3. Panel / Memory / MPort/Headphone / Mic P.C.B.
- 17.4. D-Amp P.C.B.
- 17.5. SMPS/ AC Inlet P.C.B.

18 Terminal Function of ICs

- 18.1. IC2801 (MN101EF16KXW): IC Microprocessor
- 18.2. IC6601(C0HBB0000057): IC FL Driver

19 Exploded View and Replacement Parts List

- 19.1. Exploded View and Mechanical Replacement Parts List
- 19.2. Electrical Replacement Part List

1 Safety Precautions

1.1. General Guidelines

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, carry out the following leakage current checks to prevent the customer from being exposed to shock hazards.

1.1.1. Leakage Current Cold Check

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between $1\text{M}\Omega$ and $5.2\text{M}\Omega$.
When the exposed metal does not have a return path to the chassis, the reading must be ∞

1.1.2. Leakage Current Hot Check

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a $1.5\text{k}\Omega$, 10 watts resistor, in parallel with a $0.15\mu\text{F}$ capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

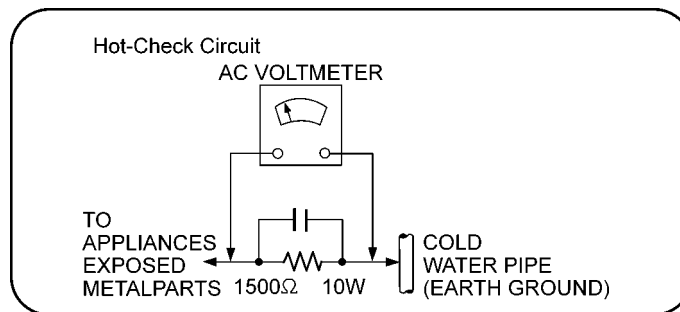


Figure 1

1.2. Before Use (For PH only)

Be sure to disconnect the mains cord before adjusting the voltage selector.

Use a minus(-) screwdriver to set the voltage selector (on the rear panel) to the voltage setting for the area in which the unit will be used. (If the power supply in your area is 110V ~ 127V or 220V ~ 240V, set to the "110V ~ 127V or 220V ~ 240V" position.)

Note that this unit will be seriously damaged if this setting is not made correctly. (There is no voltage selector for some countries, the correct voltage is already set.)

1.3. Caution For Fuse Replacement

CAUTION:

Replace with the same type fuse:

(Manufacturer: Littelfuse, Type: 233, F1, 8A 125V) (For PN only)

CAUTION:

Replace with the same type fuse:

(Manufacturer: Littelfuse, Type: 215, F1, T8AH 250V) (For PH only)

1.4. Before Repair and Adjustment

Disconnect AC power to discharge unit AC Capacitors as such (C5700, C5701, C5703, C5704, C5705, C5706, C5707) through a 10 Ω , 10 W resistor to ground.

Caution:

DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may destroy solid state devices.

After repairs are completed, restore power gradually using a variac, to avoid overcurrent.

Current consumption at AC 110V~127V / 220V~240V, 50/60 Hz in NO SIGNAL mode volume minimal should be ~ 500 mA (For PH only).

Current consumption at AC 120V, 60 Hz in NO SIGNAL mode volume minimal should be ~ 500 mA (For PN only).

1.5. Protection Circuitry

The protection circuitry may have operated if either of the following conditions are noticed:

- No sound is heard when the power is turned on.
- Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are “shorted”, or if speaker systems with an impedance less than the indicated rated impedance of the amplifier are used.

If this occurs, follow the procedure outlines below:

1. Turn off the power.
2. Determine the cause of the problem and correct it.
3. Turn on the power once again after one minute.

Note:

When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

1.6. Safety Parts Information

Safety Parts List:

There are special components used in this equipment which are important for safety.

These parts are marked by  in the Schematic Diagrams & Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

Modelo: SC-AK785LM-K

Safety	Nombre del componente	Numero de Parte
	CABLE TOMACORRIENTE.	SJA168-1A
	CONECTOR TOMACORRIENTE	K2AA2B000017
	TRANSFORMADOR DE PODER	ETS48AB12GAC
	TRANSFORMADOR DE RESPALDO	ETS19AB256AG
	FUSIBLE PRIMARIO	K5D802APA008
	CAPACITOR DE AC	F0CAF334A087
	CAPACITOR DE AC	F1BAF1020020
	CAPACITOR DE AC	F0CAF224A085
	OPTOACOPLADOR	B3PBA0000402
	PCB SMPS	RJBX0562T-1
	RESISTENCIA FUSIBLE	K5G4013A0001
	GAB. MET. SIN DOBLAR	RKMX0144Z-KL
	LECTOR ÓPTICO (CD UNIT)	RD-DAC060-PX
	REAR PANEL	RGRX0070R-AL
	INSTRUCTIVO	RQTM0171
	BOBINA PRIMARIO	ELF22V035B
	SMPS FX785	N0AE6GY00001

2 Warning

2.1. Prevention of Electrostatic Discharge (ESD) to Electrostatic Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electrostatic discharge (ESD).

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

Caution:

Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

2.2. Precaution of Laser Diode

CAUTION:

THIS PRODUCT UTILIZES A LASER.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

Caution:

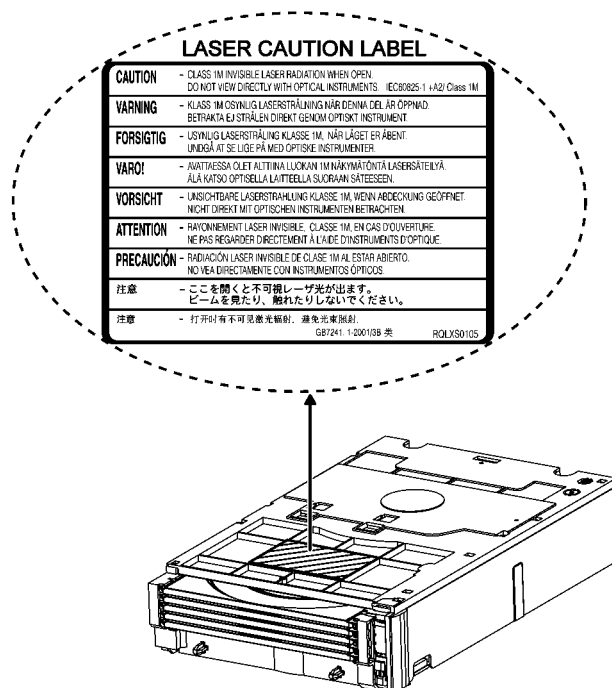
This product utilizes a laser diode with the unit turned “on”, invisible laser radiation is emitted from the pickup lens.

Wavelength: 795 nm (CD)

Maximum output radiation power from pickup: 100 μ W/VDE

Laser radiation from the pickup unit is safety level, but be sure the followings:

1. Do not disassemble the pickup unit, since radiation from exposed laser diode is dangerous.
2. Do not adjust the variable resistor on the pickup unit. It was already adjusted.
3. Do not look at the focus lens using optical instruments.
4. Recommend not to look at pickup lens for a long time.



Inside product on
CD Mechanism Unit (CR14C)

2.3. Service caution based on Legal restrictions

2.3.1. General description about Lead Free Solder (PbF)

The lead free solder has been used in the mounting process of all electrical components on the printed circuit boards used for this equipment in considering the globally environmental conservation.

The normal solder is the alloy of tin (Sn) and lead (Pb). On the other hand, the lead free solder is the alloy mainly consists of tin (Sn), silver (Ag) and Copper (Cu), and the melting point of the lead free solder is higher approx.30 degrees C (86°F) more than that of the normal solder.

Definition of PCB Lead Free Solder being used

The letter of "PbF" is printed either foil side or components side on the PCB using the lead free solder. (See right figure)	PbF
---	-----

Service caution for repair work using Lead Free Solder (PbF)

- The lead free solder has to be used when repairing the equipment for which the lead free solder is used.
(Definition: The letter of "PbF" is printed on the PCB using the lead free solder.)
- To put lead free solder, it should be well molten and mixed with the original lead free solder.
- Remove the remaining lead free solder on the PCB cleanly for soldering of the new IC.
- Since the melting point of the lead free solder is higher than that of the normal lead solder, it takes the longer time to melt the lead free solder.
- Use the soldering iron (more than 70W) equipped with the temperature control after setting the temperature at 350±30 degrees C (662±86°F).

Recommended Lead Free Solder (Service Parts Route.)

- The following 3 types of lead free solder are available through the service parts route.
RFKZ03D01K----- (0.3mm 100g Reel)
RFKZ06D01K----- (0.6mm 100g Reel)
RFKZ10D01K----- (1.0mm 100g Reel)

Note

* Ingredient: tin (Sn), 96.5%, silver (Ag) 3.0%, Copper (Cu) 0.5%, Cobalt (Co) / Germanium (Ge) 0.1 to 0.3%

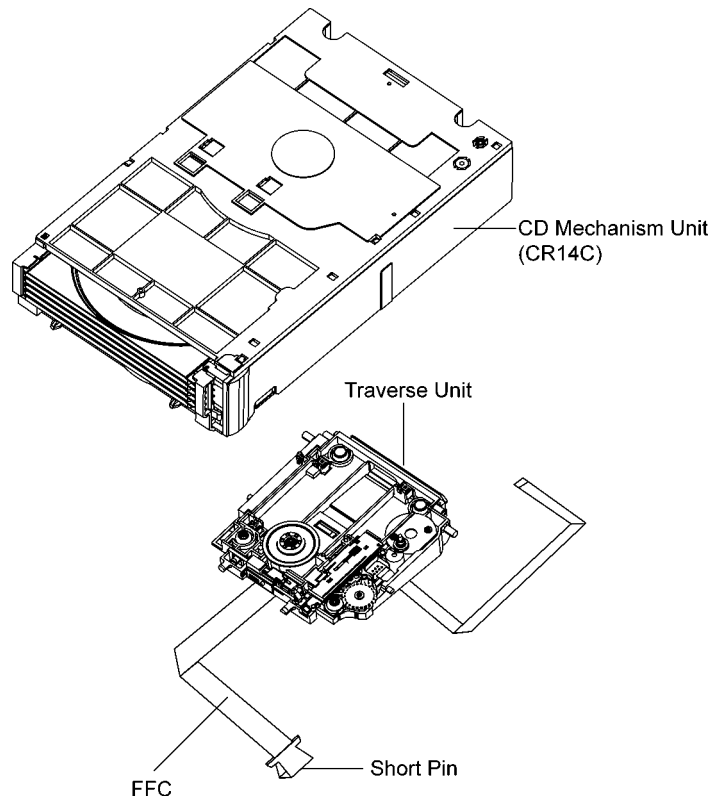
2.4. Handling Precautions for Traverse Unit

The laser diode in the optical pickup unit may break down due to static electricity of clothes or human body. Special care must be taken avoid caution to electrostatic breakdown when servicing and handling the laser diode in the traverse unit.

2.4.1. Cautions to Be Taken in Handling the Optical Pickup Unit

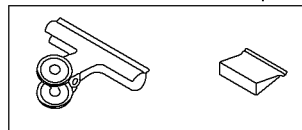
The laser diode in the optical pickup unit may be damaged due to electrostatic discharge generating from clothes or human body. Special care must be taken avoid caution to electrostatic discharge damage when servicing the laser diode.

1. Do not give a considerable shock to the optical pickup unit as it has an extremely high-precise structure.
2. To prevent the laser diode from the electrostatic discharge damage, the flexible cable of the optical pickup unit removed should be short-circuited with a short pin or a clip.
3. The flexible cable may be cut off if an excessive force is applied to it. Use caution when handling the flexible cable.
4. The antistatic FPC is connected to the new optical pickup unit. After replacing the optical pickup unit and connecting the flexible cable, cut off the antistatic FPC.



[Caution]

Ground the cable with a clip or a short pin.



2.4.2. Grounding for electrostatic breakdown prevention

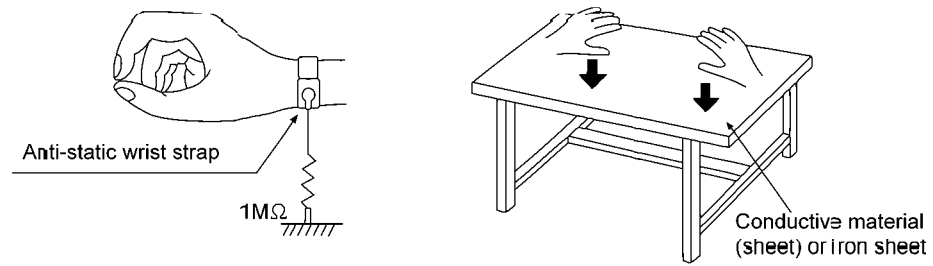
Some devices such as the DVD player use the optical pickup (laser diode) and the optical pickup will be damaged by static electricity in the working environment. Proceed servicing works under the working environment where grounding works is completed.

2.4.2.1. Worktable grounding

1. Put a conductive material (sheet) or iron sheet on the area where the optical pickup is placed, and ground the sheet.

2.4.2.2. Human body grounding

1. Use the anti-static wrist strap to discharge the static electricity form your body.



3 Service Navigation

3.1. Service Information

This service manual contains technical information which will allow service personnel's to understand and service this model. Please place orders using the parts list and not the drawing reference numbers.

If the circuit is changed or modified, this information will be followed by supplement service manual to be filed with original service manual.

• CD Mechanism unit (CR14C):

1) This model uses CD Mechanism Unit (CR14C).

2) This service manual does not contain the following information on CD Mechanism Unit (CR14C)

- Schematic Diagram, Block Diagram and P.C.B. layout of CD Mechanism Unit (CR14C) P.C.B.
- Parts List for individual parts of CD Mechanism Unit (CR14C).
- Exploded View and Part List for individual parts of CD Mechanism Unit (CR14C).

Please refer to original service manual (Order No. MD0805031CE)

• Micro-processor, EEPROM:

1) The following components are supplied as an assembled part.

- Micro-processor IC, IC2801 (MN101EF16KXW) * este material debe ser grabado.
- EEPROM IC, IC2200 (C3EBFY000006)

Before replacement of micro-processor IC, please check the version no. It may need matching with ROM correction.

• Speaker system:

1) The information, please refer to original service manual, SB-AK780 & SB-WAK780.

4 Specifications

Especificaciones

SECCIÓN DEL AMPLIFICADOR

AK780 **AK785**

Modo estéreo de potencia de salida RMS

Canal delantero (ambos canales controlados) 250 W por canal (6 Ω), 1 kHz,

Canal de subwoofer 250 W por canal (6 Ω), 100 Hz,

Potencial total del modo estéreo RMS 750 W

Potencia de salida PMPO 8300 W

AK580

Modo estéreo de potencia de salida RMS

Canal delantero (ambos canales controlados) 250 W por canal (6 Ω), 1 kHz

Potencial total del modo estéreo RMS 500 W

Potencia de salida PMPO 5500 W

SECCIÓN DEL SINTONIZADOR DE FM/AM, TERMINALES

Emisoras presintonizadas 30 emisoras de FM
15 emisoras de AM

Modulación de frecuencia (FM)

Gama de frecuencias 87,9 MHz a 107,9 MHz (en pasos de 200 kHz)
87,5 MHz a 108,0 MHz (en pasos de 100 kHz)

Terminal(es) de la antena Ω75 (desbalanceado)

Modulación de amplitud (AM)

Gama de frecuencias 520 a 1710 kHz (en pasos de 10 kHz)

Entrada AUX Clavija jack RCA

Toma puerto de música (delantero)

Sensibilidad 100 mV, 4,7 k Ω

Terminal Estéreo, toma de 3,5 mm

Toma de auriculares

Terminal Estéreo, toma de 3,5 mm

Nivel de salida (CD, 1 kHz, -20 dB) 32 Ω (Máx.)

Toma de micrófono

Sensibilidad 0,7 mV, 1,2 k Ω

Terminal Mono, toma de 3,5 mm (1 sistema)

SECCIÓN DE DISCOS COMPACTOS

Discos reproducidos (8 cm ó 12 cm)

- (1) CD-Audio (CD-DA)
- (2) CD-R/RW (CD-DA, disco formateado con MP3)
- (3) MP3

* MPEG-1 Layer 3, MPEG-2 Layer 3

Lector

Longitud de onda 795 nm

Salida de audio (Disco)

Número de canales

AK780

AK785

2,1 (FL, FR, SW)

AK580

2 (FL, FR)

FL = Canal frontal izquierdo

FR = Canal frontal derecho

SW = Canal de subwoofer

SECCIÓN DE USB

Puerto USB

Estándar USB USB 2,0 velocidad total
Soporte de formato de archivos de medios MP3 (*.mp3)
Sistema de archivo de dispositivo USB FAT 12, FAT 16, FAT 32
Corriente puerto USB 500 mA (Máx.)
Velocidad de bits 16 kbps a 320 kbps (P.B)

Grabación en el USB

Formato de archivo de grabación MP3 (*.mp3)
Velocidad de bits 128 kbps / 192 kbps / 320 kbps
Velocidad de grabación USB 1x, máx. 4x (CD solamente)

SECCIÓN DE BAFLES

Baffles frontales (SB-AK780)

Tipo Sistema de 2 altavoces de 2 vías (Reflejo de sonidos graves)

Baffle(s)
Altavoz para agudos Tipo cónico de 6 cm
Altavoz para graves Tipo cónico de 20 cm

Impedancia 6 Ω

Potencia de entrada (IEC) 250 W (Máx.)

Presión acústica de salida 87 dB/W (1,0 m)

Gama de frecuencias 49 Hz a 21 kHz (-16 dB)

68 Hz a 20 kHz (-10 dB)

Dimensiones (AnxAlxPrf) 250 mm x 414 mm x 298 mm

Peso 5,0 kg

Subwoofer (SB-WAK780) **AK780** **AK785**

Tipo Sistema de 1 altavoz de 1 vía (Reflejo de sonidos graves)

Baffle(s)
Altavoz para graves Tipo cónico de 25 cm

Impedancia 6 Ω

Potencia de entrada (IEC) 250 W (Máx.)

Presión acústica de salida 82 dB/W (1,0 m)

Gama de frecuencias 48 Hz a 250 Hz (-16 dB)

50 Hz a 200 Hz (-10 dB)

Dimensiones (AnxAlxPrf) 320 mm x 414 mm x 327 mm

Peso 7,0 kg

Baffles para Sistema Inalámbrico (SB-AK785) **AK785**

Tipo Sistema de 2 altavoces de 2 vías (Reflejo de sonidos graves)

Baffle(s)
Altavoz para agudos Tipo cónico de 6 cm
Altavoz para graves Tipo cónico de 20 cm

Impedancia 3 Ω

Potencia de entrada (IEC) 125 W (Máx.)

Presión acústica de salida 87 dB/W (1,0 m)

Gama de frecuencias 49 Hz a 21 kHz (-16 dB)

68 Hz a 20 kHz (-10 dB)

Dimensiones (AnxAlxPrf) 250 mm x 414 mm x 298 mm

Peso 5,0 kg

GENERALIDADES

Alimentación 127 V ~ 60 Hz

Consumo **AK780** **AK785** : 145 W

AK580 : 112 W

Dimensiones (AnxAlxPrf) 250 mm x 333 mm x 326 mm

Peso 4,6 kg

Gama de temperaturas de funcionamiento 0°C a +40°C

Gama de humedades de funcionamiento 35% a 80% humedad relativa (sin condensación)

Consumo en el modo de espera: **0.3 W (aproximado)**

Nota:

1) Las especificaciones están sujetas a cambios sin previo aviso.

La masa y las dimensiones son aproximados.

2) La distorsión armónica total se mide con el analizador de espectro digital.

Especificaciones

SECCIÓN DE SISTEMA INALÁMBRICO (SH-FX785)

AK785

Modo estéreo de potencia de salida RMS

Canal delantero (ambos canales controlados)
125 W por canal (3 Ω), 1 kHz,

Potencial total del modo estéreo RMS 250 W
Potencia de salida PMPO 2700 W

GENERALIDADES

Alimentación 127 V ~ 60 Hz
Consumo : 45 W
Dimensiones (AnxAlxPrf) Transmisor 65 mm x 20 mm x 105 mm
Peso Transmisor 0,03 kg
Dimensiones (AnxAlxPrf) Receptor 165 mm x 90 mm x 164 mm
Peso Receptor 0,7 kg
Velocidad de bits 1 kbps
Receptor SH-FX785RM
Rango de frecuencia 2,400 a 2,4835 GHz
Número de canales 3 canales
Gama de temperaturas de funcionamiento
+5 °C to +35 °C (+41 °F to +95 °F)
Gama de humedades de funcionamiento
5% a 90% humedad relativa (sin condensación)

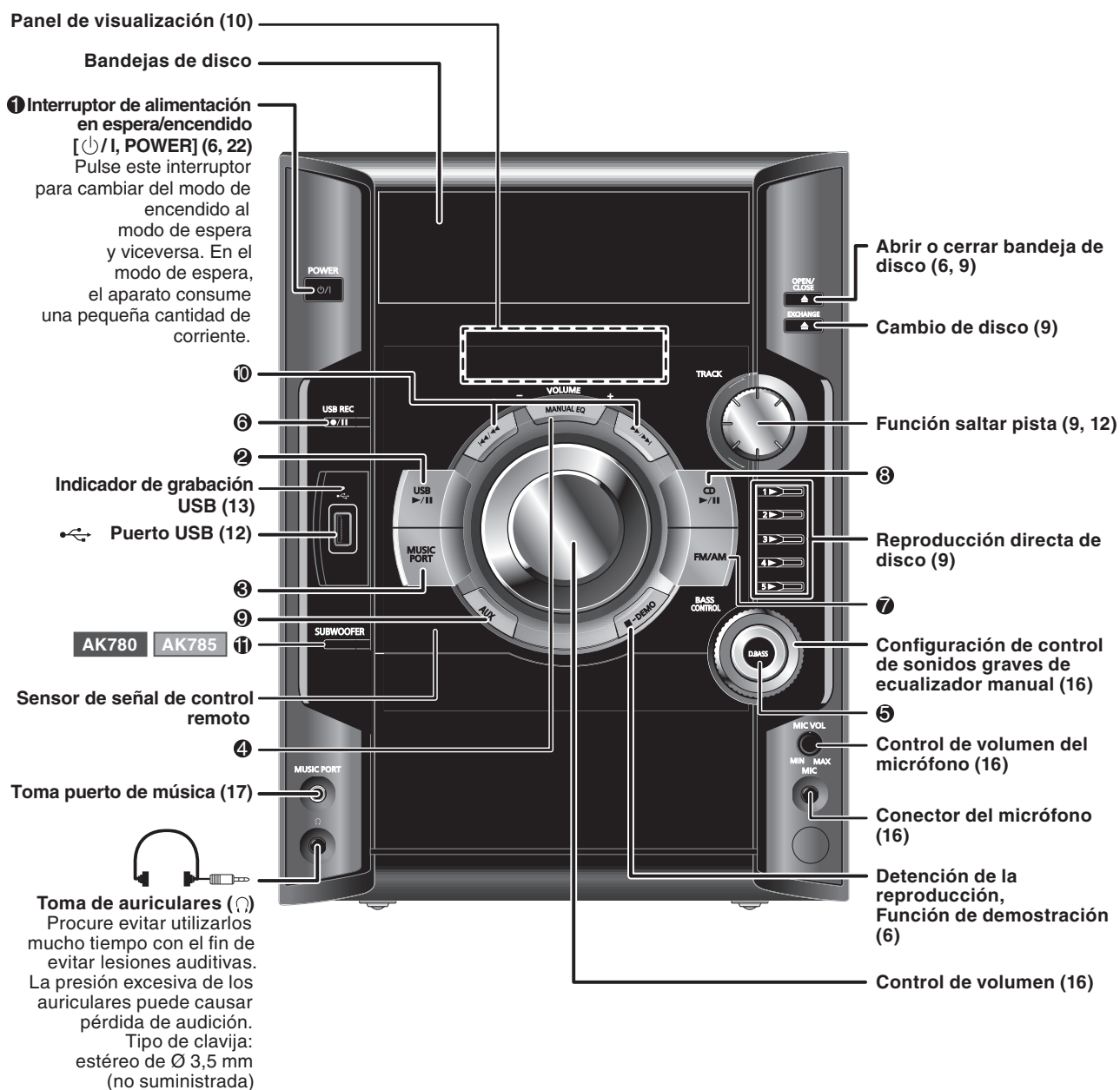
Consumo en el modo de espera:	0,2 W (aproximado)
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5 Location of Controls and Components

5.1. Main Unit Key Button Operation

Aparato principal

Refiérase a los números entre paréntesis para la página de referencia. Los botones con etiquetas tales como ❶ funcionan de la misma forma que los controles del control remoto (➔ página 8).



5.2. Remote Control Key Button Operation

Control remoto

Los botones con etiquetas como el ❶ funcionan exactamente del mismo modo que los botones del aparato principal (← página 7).



AUTO OFF  Esta función de apagado automático le permite que el aparato en modo disco o USB, se apague sólo después de 10 minutos sin utilizarse. • Pulse el botón para activar la función. • Pulse el botón nuevamente para cancelar. • El ajuste se mantiene aunque el aparato esté apagado.	DIMMER  Para reducir la iluminación del la pantalla. • Pulse el botón para activar la función. • Pulse el botón nuevamente para cancelar.	MUTE  Para silenciar el sonido. • Pulse el botón para activar la función. • Pulse el botón nuevamente o ajuste el volumen para cancelar.
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5.3. Disc Information

NOTE about using a DualDisc

The digital audio content side of a DualDisc does not meet the technical specifications of the Compact Disc Digital Audio (CD-DA) format so playback may not be possible.

NOTE on CDs

- This unit can access up to 99 tracks.
- This unit can play MP3 files and CD-DA format audio CD-R/RW that have been finalized.
- It may not be able to play some CD-R/RW due to the condition of the recording.
- Do not use irregularly shaped disc.
- Do not use disc with labels and stickers that are coming off or with adhesive exuding from under labels and stickers.
- Do not attach extra labels or stickers on the disc.
- Do not write anything on the disc.

NOTE on MP3

- Files are treated as tracks and folders are treated as albums.
- This unit can access up to 999 tracks, 255 albums and 20 sessions.
- Disc must conform to ISO9660 level 1 or 2 (except for extended formats).
- To play in a certain order, prefix the folder and file names with 3-digits numbers in the order you want to play them.

When "PLAYERERROR" appears on the display, an unsupported MP3 format is being played. The unit will skip that track and play the next one.

Limitations on MP3 play

- If you have recorded MP3 on the same disc as CD-DA, only the format recorded in the first session can be played.
- Some MP3s may not be played due to the condition of the disc or recording.
- Recordings will not necessarily be played in the order you recorded them.

6 Self-Diagnosis and Special Mode Setting

This unit is equipped with features of self-diagnosis & special mode setting for checking the function & reliability.

Special Note: Checking of the reliability (ageing) & changer operation must be carry out to ensure good working condition in unit.

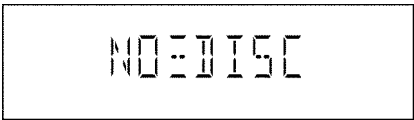
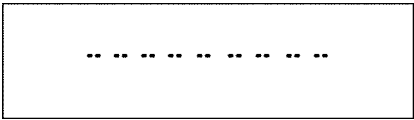
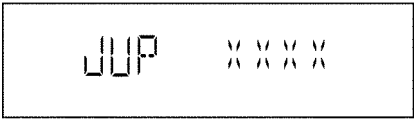
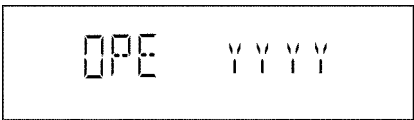
6.1 Doctor Mode Summary Table

Main unit buttons	Remote control unit buttons	Application	Note
[■-DEMO]	[4], [7]	Doctor Mode	(Refer to the section "6.2.1 Doctor Mode Table 1" for more information.)
Doctor Mode	[DISPLAY]	Cold Start	
	[2]	Micro-P Version Display	(Refer to the section "6.2.2 Doctor Mode Table 2" for more information.)
	[7]	Volume 50 Setting Check	
	[8]	Volume 35 Setting Check	
	[9]	Volume 0 Setting Check	
	[PLAYMODE/-REPEAT]	Volume 30 Setting Check	
	[1]	FL Display Check	
	[DEL]	CD Open Test	
	[≥10], [1], [1]	CR14 Reliability Test 1 (no retry)	(Refer to the section "6.2.3 Doctor Mode Table 3" for more information.)
	[≥10], [1], [2]	CR14 Reliability Test 2 (with retry)	
	[DISC]	CR14 Changer Mechanism Check	(Refer to the section "6.2.4 Doctor Mode Table 4" for more information.)
	[≥10], [9], [4]	CR14 Error Late Display	
	[4]	CD to USB Recording & Playing Inspection	(Refer to the section "6.2.4 Doctor Mode Table 4" for more information.)
	[FM/AM]	Tuner Inspection	
	[OK]	Exit Inspection Mode	

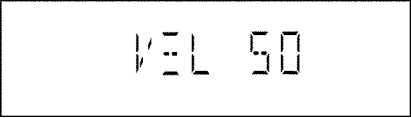
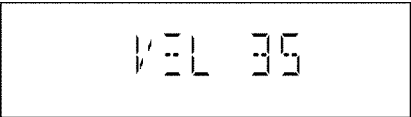
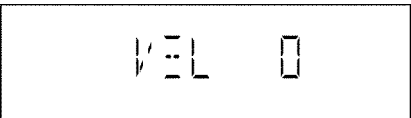
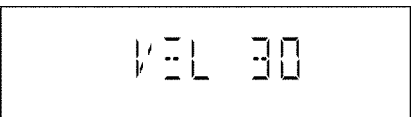
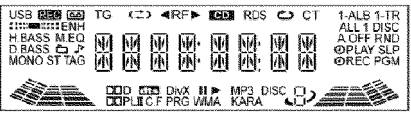
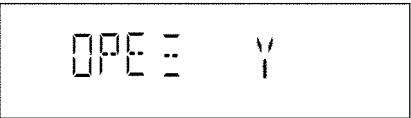
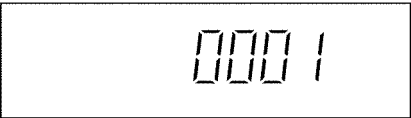
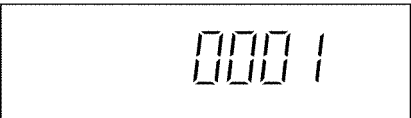
6.2. Doctor Mode Table

Below is the various special modes for checking:-

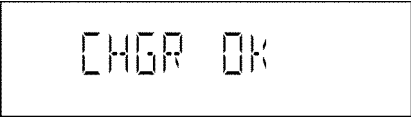
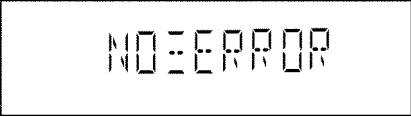
6.2.1. Doctor Mode Table 1

Item		FL Display	Key Operation
Mode Name	Description		Front Key
Doctor Mode	To enter into Doctor Mode.		In CD Mode: 1. Press [■-DEMO] button on main unit follow by [4] and [7] on remote control. To exit Doctor Mode, press [OK] button on remote control.
Cold Start	To activate cold start upon next power up when reset is execute the next time.		In Doctor Mode: 1. Press [DISPLAY] button on remote control.
Micro-P Version Display	To check the firmware version for Jupiter & Microprocessor IC.	Display 1  Jupiter Micro-P Version ↓ Display 2  Micro-processor Version	In Doctor Mode: 1. Press [2] button on remote control.

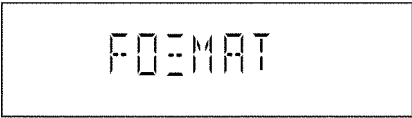
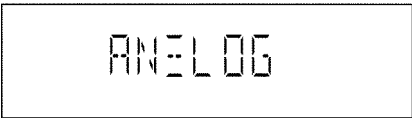
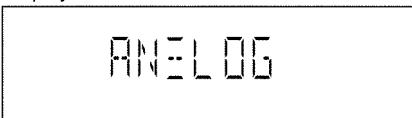
6.2.2. Doctor Mode Table 2

Item		FL Display	Key Operation
Mode Name	Description		Front Key
Volume Setting Check	To check for the volume setting of the main unit. The volume will be automatically set to its respective level (in dB). During this mode, treble/bass/EQ will be set to '0'dB & OFF.	Display 1 	In Doctor Mode: 1. Press [7] button on remote control. To exit Doctor Mode, press [OK] button on main unit or remote control.
		Display 1 	In Doctor Mode: 2. Press [8] button on remote control. To exit Doctor Mode, press [OK] button on main unit or remote control.
		Display 1 	In Doctor Mode: 3. Press [9] button on remote control. To exit Doctor Mode, press [OK] button on main unit or remote control.
		Display 1 	In Doctor Mode: 4. Press [PLAY MODE/-REPEAT] button on remote control. To exit Doctor Mode, press [OK] button on main unit or remote control.
FL Display Check	To check the FL segments display (All segments will light up)		In Doctor Mode: 1. Press [1] button on remote control.
CD OPEN Test	To check the CD OPEN operation.	 Can be any Tray	In Doctor Mode: 1. Press [DEL] button on remote control. 2. Press [OPEN/CLOSE] button on main unit to close the disc tray.
CR14 Reliability Test1 (no retry)	Note: 1. If the mechanism error occurs, it should stop the test. (no retry, no recovery process). 2. The test mode is cleared by power OFF. 3. Reading and playback should not be done.	 The counter will increment by one. When reach 9999 will change to 0000	In Doctor Mode: 1. Press [≥10], [1], [1] button on remote control.
CR14 Reliability Test2 (with retry)	Note: 1. Even if the mechanism error occurs, it should retry as normal operation. 2. The test mode is cleared by power OFF. 3. Reading and playback should not be done.	 The counter will increment by one. When reach 9999 will change to 0000	In Doctor Mode: 1. Press [≥10], [1], [2] button on remote control.

6.2.3. Doctor Mode Table 3

Item		FL Display	Key Operation
Mode Name	Description		Front Key
CR14 Inspection	Below is the process: 1. Load TRAY 1 (Move to PLAY position) 2. After that, TRAY 2 is open (TRAY 1 still in LOAD condition) and close. 3. Next TRAY 3 is open (TRAY 1 still in LOAD condition) and close. 4. Then TRAY 4 is open (TRAY 1 still in LOAD condition) and close. 5. Finally TRAY 5 is open (TRAY 1 still in LOAD condition) and close. 6. Tray 1 is unloaded. (Move to the STOCK position) 7. Tray 1 is loaded. (Move to the PLAY position) When step 1 to 7 operates normally without any error, FL will display [CHGR_OK_]		In Doctor Mode: 1. Press [DISC] button on remote control.
CR14 Error Code Display	To display errors codes for CR14 changer mechanism. Refer to section 6.4.1 (CD Mechanism (CR14) Error code table).		In Doctor Mode: 1. Press [≥10], [9], [4] button on remote control.

6.2.4. Doctor Mode Table 4

Item		FL Display	Key Operation
Mode Name	Description		Front Key
CD to USB Recording & Playing Inspection	-Automatically change to CD -Set it to VOL 0 -Preset EQ Set to FLAT USB Formatted	Display 1 	In Doctor Mode: 1. Press [4] button on remote control.
		↓	
	When high-speed recording	Display 2 	
		↓	
	When analog recording	Display 3 	
		↓	
	- Switches to the USB selector after an analog recording ends (TRACK 1 of ALBUM1) During playback this track - Sets to VOL 50 (0dB) and start playback - It is enabled to accept the SKIP key and the ALBUM key	Display 4 	
		↓	
	Next, play the track analog recorded. (TRACK1 of ALBUM2) During playback this track - It is enabled to accept the SKIP key and the ALBUM key	Display 5 	

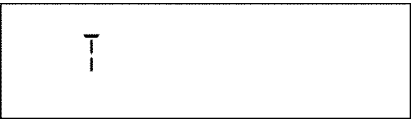
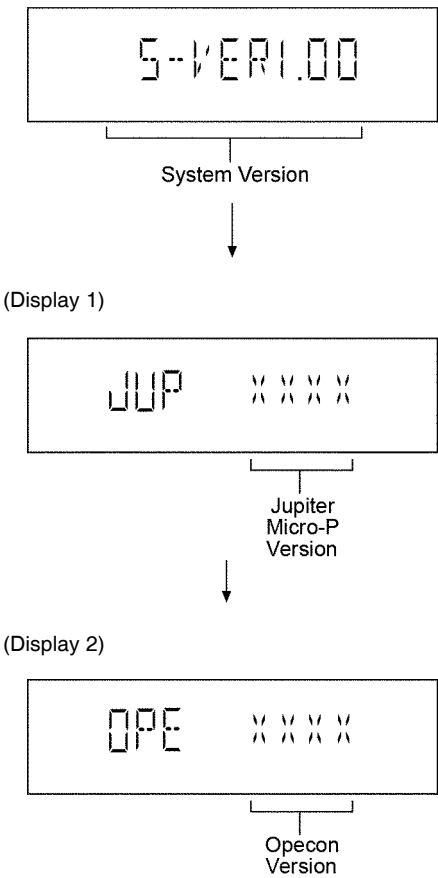
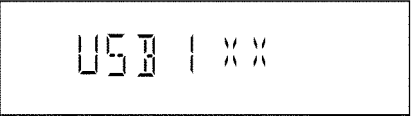
6.3. Service Mode Summary Table

Main unit buttons	Remote control unit buttons	Application	Note
[■-DEMO]	[▶▶!]	Service Mode	(Refer to the section “6.4.1 Service Mode Table 1” for more information.)
Service Mode	[1]	Error Code History	
	[2]	Micro-P Version Display	
	[5]	USB Error Code History	(Refer to the section “6.4.2 Service Mode Table 2” for more information.)
	[6]	CD Self Adjustment Result	
	[3]	Cold Start	

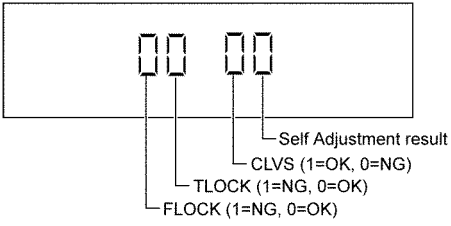
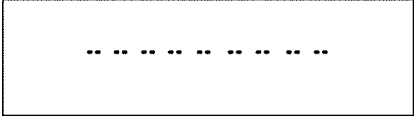
6.4. Service Mode Table

6.4.1. Service Mode Table 1

Below is the various special modes for checking:-

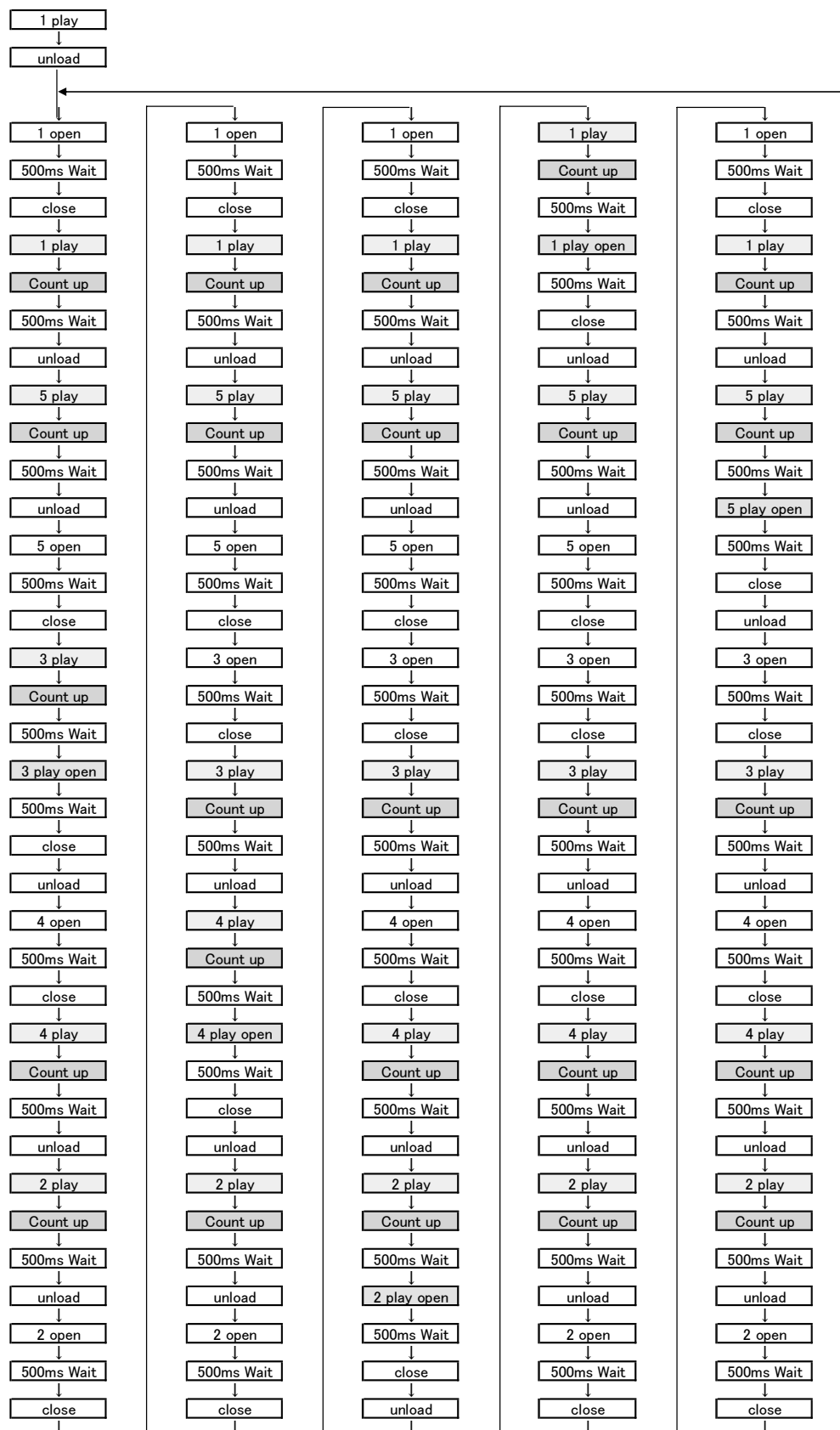
Item		FL Display	Key Operation
Mode Name	Description		Front Key
Service Mode	To enter into Service Mode.		In CD Mode: Press and hold [■-DEMO] button on main unit for 2 seconds follow by [▶▶I] on remote control for 2 seconds. To exit, press [ON/OFF ⏻] button on main unit or remote control.
Error Code History	Checking the records for Error Code.		In Service Mode: 1. Press [1] button on remote control. To clear history, press & hold [0] for 5 seconds or more.
Micro-P Version Display	To Check for following: 1) System Version. 2) Jupiter Micro-processor version. 3) Micro-processor Version		In Service Mode: 1. Press [2] button on remote control.
USB Error Code History	To check for USB error codes.		In Service Mode: 1. Press [5] button on remote control. To clear history, press & hold [0] for 5 seconds or more.

6.4.2. Service Mode Table 2

Item		FL Display	Key Operation
Mode Name	Description		Front Key
CD Self Adjustment Result	To check for CD operation (self-adjustment).	 Self Adjustment result CLVS (1=OK, 0=NG) TLOCK (1=NG, 0=OK) FLOCK (1=NG, 0=OK)	In Service Mode: 1. Press [6] button on remote control.
Cold Start	To reset to default setting.	 	In Service Mode: 1. Press [3] button on remote control.

6.5. Reliability Test Mode (CD Mechanism Unit CR14C)

Below is the progress flow chart of ageing for the Mechanism unit (CR14C).



6.6. Error Code Table

Self-Diagnosis Function (refer Section “6.4.1” Service Mode Table 1”) provides information on any problems occurring for the unit and its respective components by displaying the error codes. These error code such as U**, H** and F** are stored in memory and held unless it is cleared.

The error code is automatically display after entering into self-diagnostic mode.

6.6.1. CD Mechanism Unit (CR14C) Error Code Table

Error Code	Diagnosis Contents	Description of error	Automatic FL Display	Remarks
LOAD	Load operation faulty	The load operation cannot complete when time out occurs.	LOAD	For CD Mechanism unit (CR14C). Press [EXCHANGE] on main unit for next error.
UNLD	Unload operation faulty	The unload operation cannot complete when time out occurs.	UNLD	For CD Mechanism unit (CR14C). Press [EXCHANGE] on main unit for next error.
UP	Exchange open operation faulty	The exchange open operation cannot complete when time out occurs.	UP	For CD Mechanism unit (CR14C). Press [EXCHANGE] on main unit for next error.
DOWN	Down operation faulty	The down operation cannot complete when time out occurs.	DOWN	For CD Mechanism unit (CR14C). Press [EXCHANGE] on main unit for next error.
OPEN	Open operation faulty	The open operation cannot complete when time out occurs.	OPEN	For CD Mechanism unit (CR14C). Press [EXCHANGE] on main unit for next error.
CLOSE	Close operation faulty	The open operation cannot complete when time out occurs.	CLOSE	For CD Mechanism unit (CR14C). Press [EXCHANGE] on main unit for next error.
MODEL	Mode change to updown operation faulty	The mode change to updown operation cannot complete when time out reversing occurs. It changes to up/down.	MODEL	For CD Mechanism unit (CR14C). Press [EXCHANGE] on main unit for next error.

Error Code	Diagnosis Contents	Description of error	Automatic FL Display	Remarks
MODEH	Mode change to horizontal operation faulty	The mode change to horizontal operation cannot complete when time out reversing occurs. (Mode change to horizontal.)	MODEH	For CD Mechanism unit (CR14C). Press [EXCHANGE] on main unit for next error.
INITIALIZE	Initialize operation faulty	The initialize operation cannot complete.	INIT	For CD Mechanism unit (CR14C). Press [EXCHANGE] on main unit for next error.

6.6.2. Error Code Table (For Power Supply)

Error Code	Diagnosis Contents	Description of error	Automatic FL Display	Remarks
F61	Power Amp IC output abnormal	Upon power on, PCNT=HIGH, DCDET2=L after checking LSI. DCDET2 = L, Power off process not executed PCNT = L ECONO = L, FL display off	F61 after 2 seconds	For power. Press [■ -DEMO] on main unit for next error.
F76		DCDET1 = L (NG)	F76	
F61-76		Both DCDET1 and DCDET2 = L (NG)	F61-F76	

7 Troubleshooting Guide

7.1. Jupiter USB

No	Possible Symptoms	Checking Point	Judgment 1	Verification Point	Judgment 2	Verification Point	Judgment 3	Verification Point
1	Analog sound output abnormal or no output (L & R channel)	Check the supply pin 14 of IC552 (DAC IC) at +5V	NG	Check L552	NG	Replace L552		
					OK	Check LB623	NG	Replace LB623
			OK	Check LB628 & R556 (For R Channel) Check LB630 & R555 (For L Channel) Replace IC552 Check RX834 & LB801 & R835 & LB802 & R833	NG	Replace LB628 & R556		
					OK	Check CN601 or FFC		
					NG	Replace LB630 & R555		
					OK	Check CN601 or FFC		
2	Analog sound recording fails	Check the supply pin 6 of IC551 (ADC IC) at +5V & pin 7 at +3.3V (for HC4)	NG	Check L553 & L551	NG	Replace L553 & L551		
					OK	Check LB623 & LB614		
			OK	Check LB624 & LB626 Replace IC551 Check RX834 & LB801 & R835 & LB802 & R833 Check S651	NG	Replace LB624 & LB626		
					OK	Check CN601 or FFC		
					NG	Replace S651		
					OK	Check RX651 & R801 & R656-659 & R842-843		
3	No operation USB (for AK series)	Check the supply pin 2 & 3 of IC502 at +5V	NG	Check CN601 or FFC				
			OK	Check the supply pin 6-8 of IC502 at +5V	NG	Replace IC502		
				Check LB501 & R517 & LB502 & R518	OK	Check CN503		
4	No display after powering-up.	Check LB503 & LB504 & LB636	NG	Replace LB503 & LB504 & LB636				
			OK	Check pin 28-30 of CN601.				
5	No lights-up LED indicator.	Check D803 & R807	NG	Replace D803 & R807				
			OK	Check Q801 & LB641				
6	No operation	Check the supply +3.3V & +1.2V of IC801	NG	Check CN601 & LB614 & IC802				
			OK	Check pin 62 & 63 of IC801 at 16.934MHz.				
				Check pin 203 & 204 of IC801 at 12MHz.				
				Check shorted all bus line.(RX***)	NG	Touch-up soldering		
					OK	check IC801 & IC701 & IC751		

7.2. Troubleshooting Guide

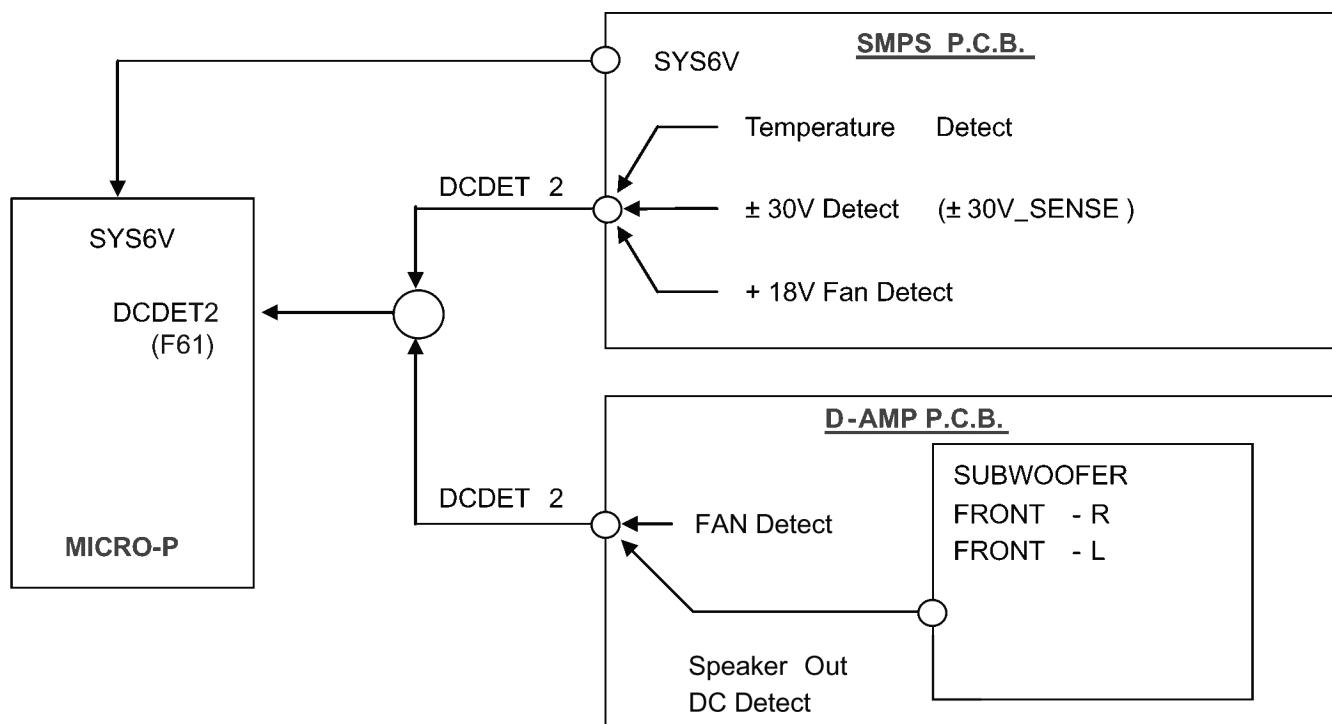
Symptom	Possible Cause	Checking Point	Replacement Parts	Remarks
No CD Operation / Tray not open	No +3.3V voltage supply to IC7001 (Servo Processor)	- Check pin 16, 22 at CN7002 - Check any pattern crack or solderability	- Replace connecting FFC if broken or damage. - Replace connector (CN7002)	CD Servo P.C.B
	No oscillator signal to IC7001 (Servo Processor IC)	Check oscillator signal at pin 73,74 of IC7001	Replace X7201	
	No traverse operation / OPU no movement	- Check pin 25 at IC7002 (+7.5V voltage supply) - Check pin 13 (SP_OUT), 14 (TRVP) at IC7001 - Check pin 1, 3 at IC7002 - Check pin 9, 10, 11 at IC7001 - Check pin 11,12 at IC7002 (Spindle motor) - Check pin 13, 14 at IC7002 (Traverse motor)	- Replace IC7002 - Replace IC7001 - Replace traverse assembly	
No audio speaker output	Speaker connection	- Check speaker connecting cables - Check solderability at speaker jack, JK50001	- Replace speaker cables - Replace speaker jack, JK5001	D-AMP P.C.B
	D-AMP IC abnormal	- Check PWM output at pin 10, 14 of IC5000/IC5200/IC5300/IC5400 (D-AMP IC) - Check +VDD/SS supply at pin 4 & 20 of D-AMP IC - Check pin 1 (OSC) & pin 23 (MODE) of D-AMP IC - Check pattern crack and solderability	Replace IC5000, IC5200, IC5400	
	No FHOP signal or (Clock generator IC) abnormal	- Check oscillator signal at pin 3,4,5 & 6 of IC5500 (Clock generator IC) - Check +VCC voltage at pin 1 of IC5500 - Check output oscillator signal at pin 8 (OSC) of IC5500	- Replace IC5500 - Replace oscillator: X5500, X5501 - Replace Q5601, Q5603, Q5604 - Replace IC2801	

		• Check Q5601, Q5603 & Q5604 (MOD_DA & MUTE_F) • Check pin 64 (MOD_DAMP), 65 (FHOP), 66 (MUTE_F) of IC2801		
	Open connection	• Check L5001, L5002, L5401, L5402, L5201, L5301	• Replace L5001, L5002, L5401, L5402, L5201, L5301	D-AMP P.C.B
	Jupiter Module abnormal	• Check +5V at pin 15, 19 of CN601 • Check output at pin 16, 18 of CN601 • Check +5 at pin 6 of IC551 (ADC IC) • Check +5V at pin 14 of IC552 (DAC OC) • Check +3.3V voltage supply at pin 37 of IC701 (FLASH ROM) • Check +3.3V voltage at pin 42, 73, 98, 109, 123, 137, 152 of IC760 (Memory IC) • Check +3.3V at pin 6, 19, 27, 44, 54, 199, 189, 178, 186, 153, 140, 127, 113 of IC801 • Check X801	• Replace connecting FFC if broken or damage. • Replace IC551, IC552 • Replace L551, L552, L553 • Replace IC701 • Replace IC760 • Replace IC801 • Replace X801	Jupiter Module P.C.B
	ASP IC (IC2803) abnormal	• Check VCC at pin 21 of IC2803 • Check L&R output at pin 17, 22 of IC2803 • Check input signal at pin 4, 36 (CD signal) of IC2803 • Check ASP_CLK at pin 20 of IC2803 • Check ASP_CLK at pin 50 of IC2801	• Replace IC2803 • Replace IC2801	Main P.C.B
	Micro-process IC (IC2801) abnormal	• Check oscillator signal at pin 15, 16 of IC2801 • Check oscillator signal at 12,13 of IC2801 • Check Vref+, +VDD3.3,+VDD1.8	• Replace IC2801 • Replace X2611 • Replace X2602	

7.3. Troubleshooting Guide for F61 and/or F76

This section illustrates the checking procedures when upon detecting the error of “F61” and/or “F76” after power up of the unit. It is for purpose of troubleshooting and checking in SMPS, D-Amp & Main P.C.B.

7.3.1. Block Diagram



7.3.2. Troubleshooting Guide

Symptom	Checking Items	Repair Items	Remarks
FL display blinking with abnormal segment when power ON the set or "F61"	Check the soldering of the SMPS P.C.B. - Is there any solder crack at area (Q5860, Q5861, Q5862, TH5860, QR5801) - Check all the supply line $\pm 30V$ - Is there any solderability at area of feedback circuit - Check feedback circuit (IC5801, Q5802, D5806, PC5720, D5725)	Touch-up the solder crack area/ Change the defective parts. - Q5860, Q5861, Q5862, TH5860 (Temperature Detect) - QR5801 & QR5802 ($\pm 30V$ Detect) - Touch-up the necessary areas - IC5801, D5806, PC5720, D5725	SMPS P.C.B. Refer to Fig. 1
First Power ON Display immediate show "F61".	Check Speaker output by using multi-meter, - If there is a DC Voltage around $\pm 30V$ - Check Output IC (Pin 10 & 14) which have DC Voltage at Speaker output short to $\pm V_{dd}/V_{ss}$ - If shorted that means D-Amp damage already.	Change the defective parts. D-AMP IC: IC5000, IC5400, IC5200	D-Amp P.C.B. Refer to Fig. 2
Power ON for a while then only trigger "F61". (Symptom always happen)	Check the soldering of the SMPS P.C.B. - Is there any solder crack at area (Q5860, Q5861, Q5862, TH5860, QR5801) - Check all the supply line $\pm 30V$	Touch-up the solder crack area/ Change the defective parts. - Q5860, Q5861, Q5862, TH5860 (Temperature Detect) - QR5801 & QR5802 ($\pm 30V$ Detect) Feedback Circuit: IC5801, PC5720, D5725	SMPS P.C.B. Refer to Fig. 1
Power ON for a while and then trigger "F76"	Check all supply voltages as follows: Step 1: Check for supply voltages from SMPS P.C.B to Main P.C.B at pin 2, 5, 6, 7, 8, 9 of CN5802. If there are supply voltages, proceed to Step 2. If no voltages detected, check wire connection and circuitry connection from SMPS P.C.B. Step 2: Check if there is supply voltages for $-V_p$, FL1 & FL2 CN2806 - If there is supply voltages of $-13V$, $+7.5V$ (CR14), $+12V$ (Motor), $+6V$ (SYS6V), $+9V$ & $+18V$ at CN5802 - If there is supply voltages of $\pm 9V$ at CN6001	Check and change the possible defective parts. - FP2901 (Fuse Protector), T2900, D2901, D2906, D2908, D2909 - IC2701 (Switching Regulator IC) & related regulator circuit components - IC2761 (Regulator IC) & related regulator circuit components	Main P.C.B. Refer to Fig. 3

7.3.3. Part Location

7.3.3.1. SMPS P.C.B.

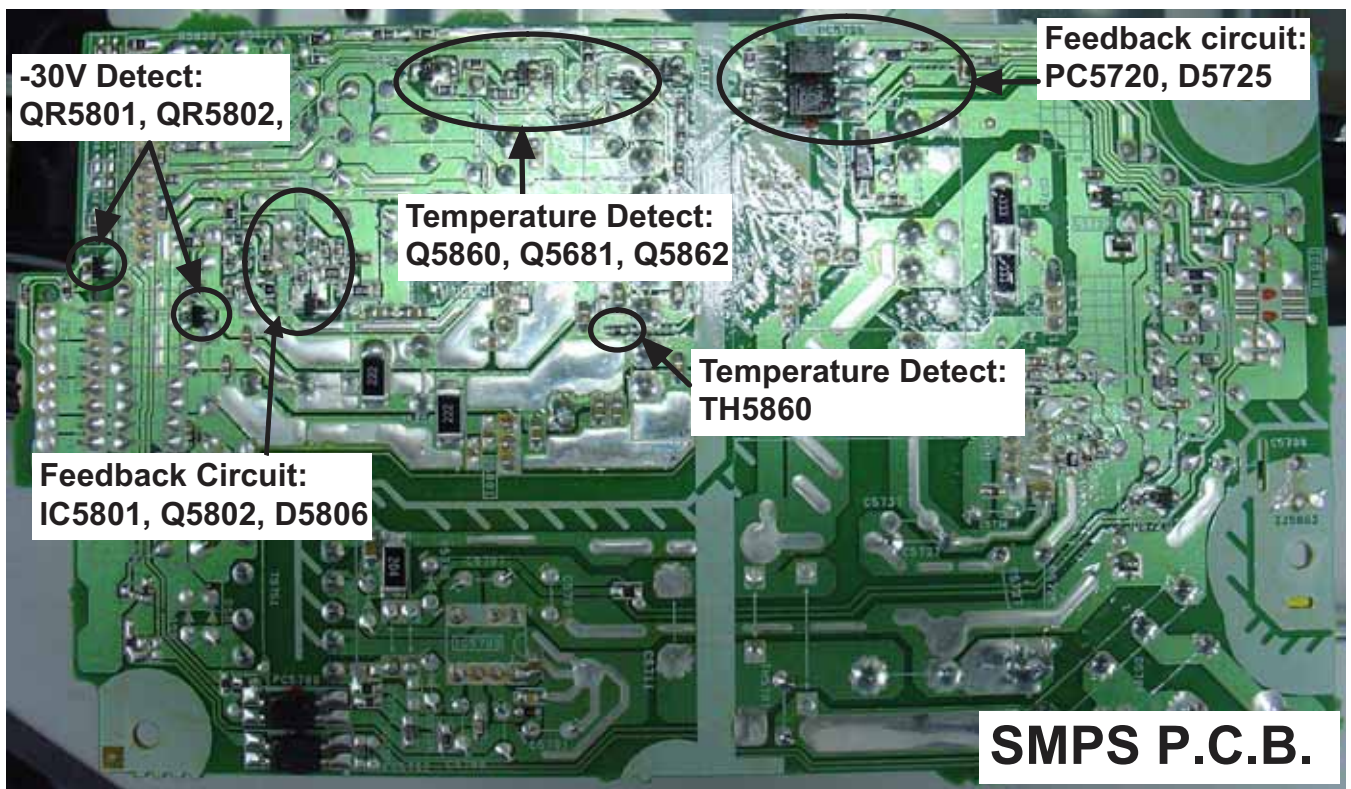


Fig. 1 SMPS P.C.B.

7.3.3.2. D-Amp P.C.B.

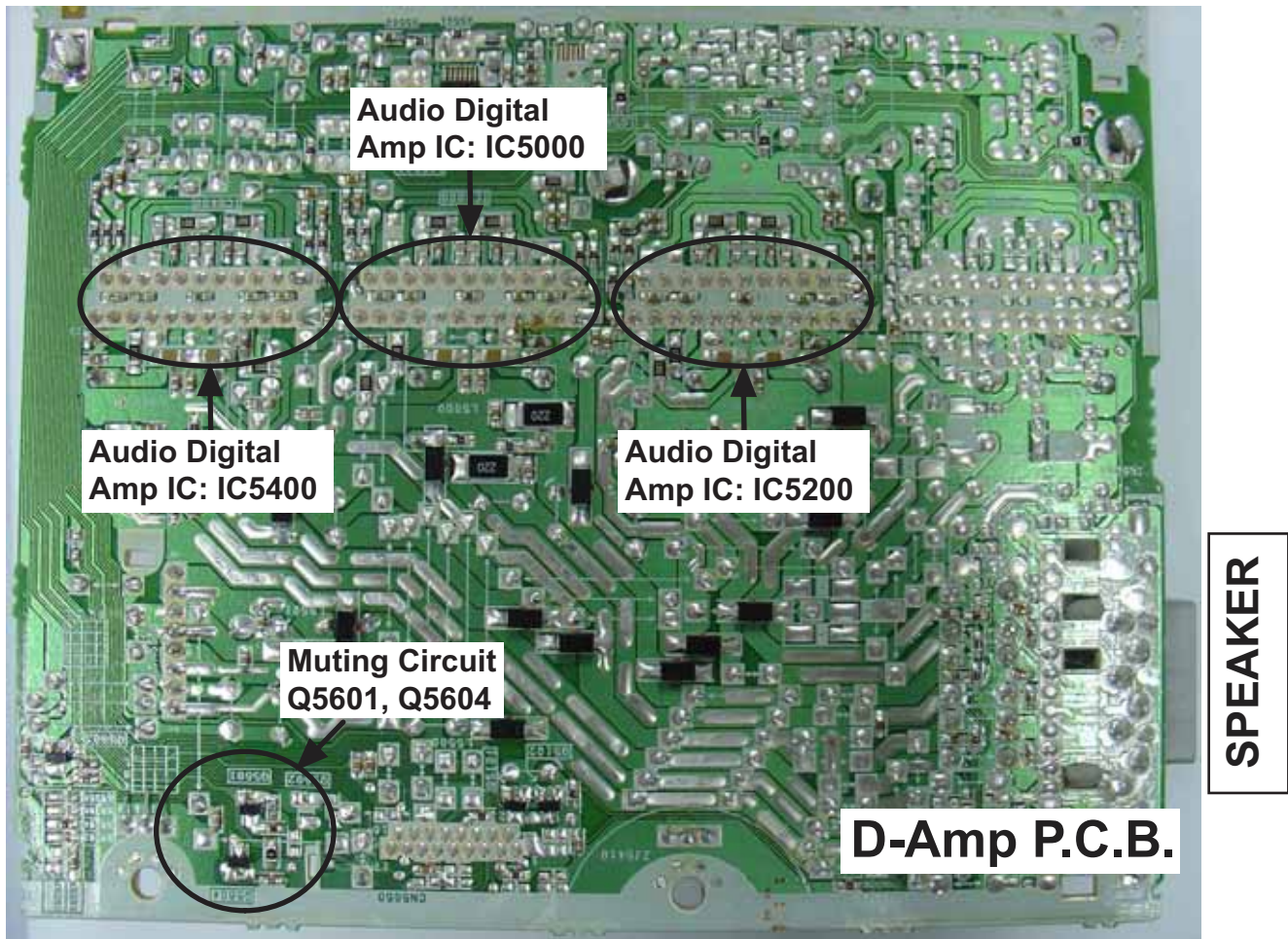


Fig. 2 D-Amp P.C.B.

7.3.3.3. Main P.C.B.

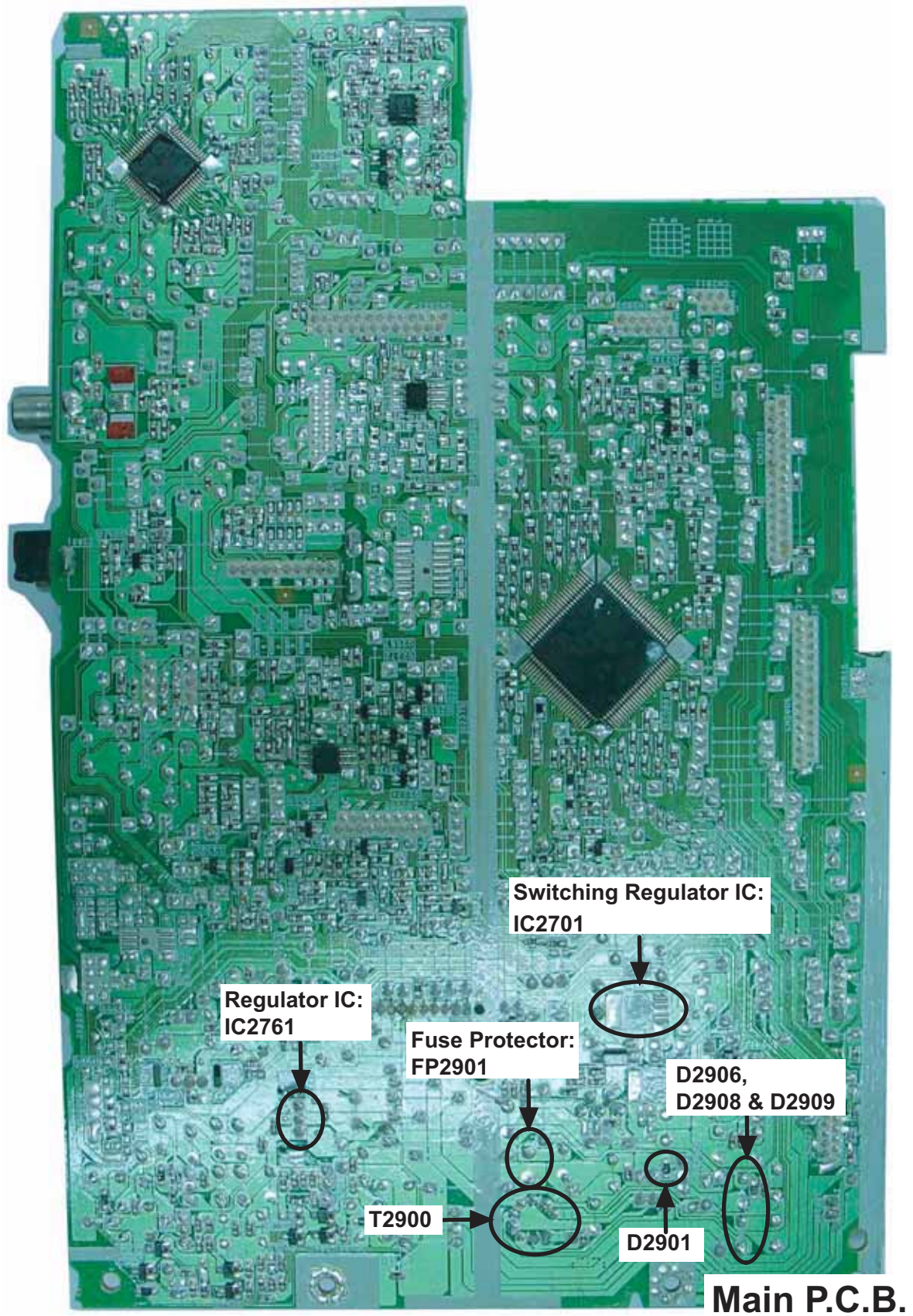


Fig. 3 Main P.C.B.

8 Service Fixture & Tools

8.1. Service Tools and Equipment

Prepare service tools before process service position.

Service Tools		Remarks
Main P.C.B. (CN5050) - D-Amp P.C.B. (CN5050)	REEX0930 (17P FFC)	(RTL)
Main P.C.B. (CN2701) - SMPS P.C.B. (CN5802)	REXX0680 (11P wire)	(RTL)
SMPS P.C.B. (H5801) - D-Amp P.C.B. (CN5500)	REXX0683-1 (8P wire)	(RTL)

9 Disassembly and Assembly Instructions

“ATTENTION SERVICER”

Be careful when disassembling and servicing.

Some chassis components may have sharp edges

Special Note:

1. This model uses a CD Mechanism Unit (CR14C). In this following section does not contain the necessary assembly and disassembly information except the assembly and disassembly of the traverse unit. Kindly refer to the original service manual for the CD Mechanism Unit. (Order No. MD0805031CE).
2. This section describes the disassembly procedures for all the major printed circuit boards and main components.
3. Before the disassembly process was carried out, do take special note that all safety precautions are to be carried out. (Ensure that no AC power supply is connected during disassembling.)
4. For assembly after operation checks or replacement, reverse the respective procedures.
Special reassembly procedures are described only when required.
5. Do take note of the locators on each printed circuit board during reassembling procedures.
6. The Switch Regulator IC may have high temperature after prolonged use.
7. Use caution when removing the top cabinet and avoid touching heat sinks located in the unit.

**CAUTION: HOT!!
PLEASE DO NOT
TOUCH THE HEAT SINK**

8. Select items from the following index when checks or replacement are required.

- Disassembly of Top Cabinet
- Disassembly of CD Mechanism Unit (CR14C)
- Disassembly of Rear Panel
- Disassembly of Fan Unit
- Disassembly of Front Panel Assembly
- Disassembly of Mic P.C.B.
- Disassembly of Panel P.C.B.
- Disassembly of Dynamic Bass Knob & Dynamic Bass Button Unit
- Disassembly of Memory P.C.B.
- Disassembly of MPort/Headphone P.C.B.
- Disassembly of CD Servo P.C.B.
- Disassembly of D-Amp P.C.B. & Fan
- Replacement of Audio Digital Amp IC (IC5400)
- Replacement of Audio Digital Amp IC (IC5000)
- Replacement of Audio Digital Amp IC (IC5200)
- Disassembly of Main P.C.B.
- Disassembly of SMPS P.C.B.
- Replacement of Switching Regulator IC (IC5701)
- Replacement of Rectifier Diode (D5702)
- Replacement of Regulator Diode (D5801)
- Replacement of Regulator Diode (D5802)
- Replacement of Regulator Diode (D5803)
- Disassembly of AC Inlet P.C.B.
- Disassembly of Jupiter P.C.B.
- Disassembly of Voltage Selector P.C.B. (For PH only)
- Replacement of Traverse Unit Assembly
- Disassembly of CD Lid

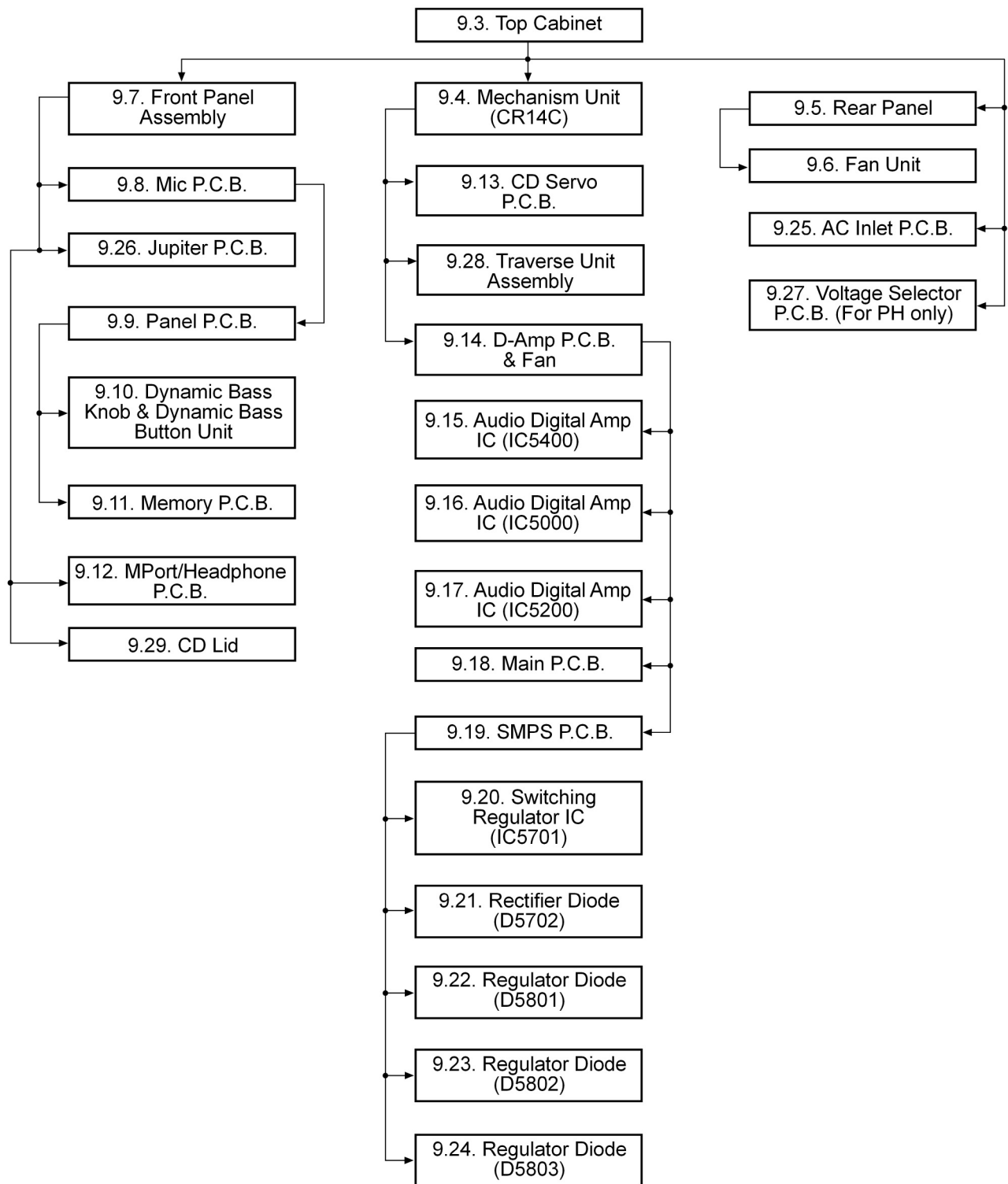
CAUTION NOTE:

Please use original screw and at correct locations.

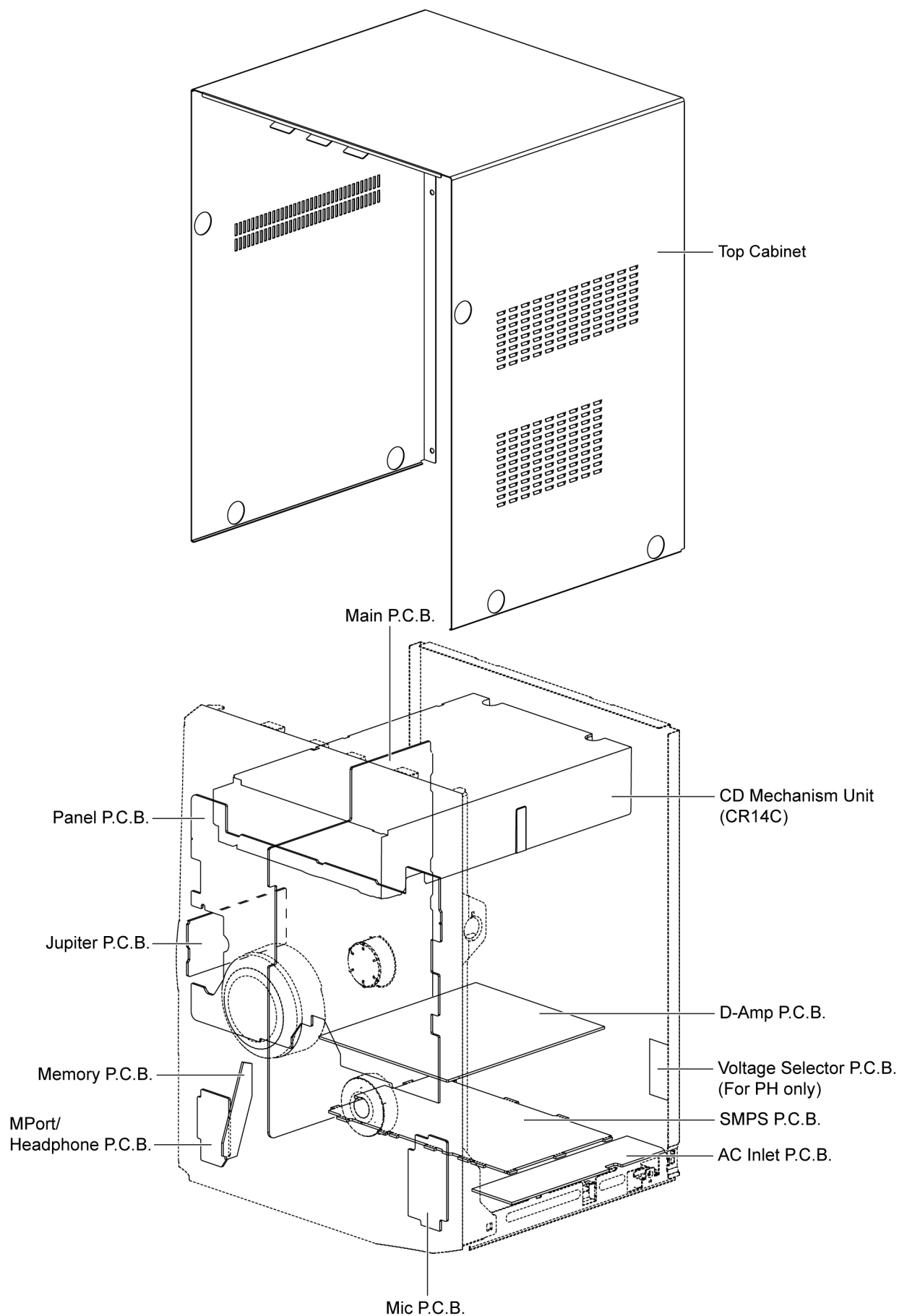
Below shown is the part no. of different screw types used:

- a** : RHD30007-K2J
- b** : RHD30119-S
- c** : XTW3+12TFJ
- d** : XTW3+20TFJ
- e** : RHD26046-L
- f** : XTW3+8TFJ
- g** : XTN2+6GFJ
- h** : RHD30111-31
- i** : XTB3+10JFJ

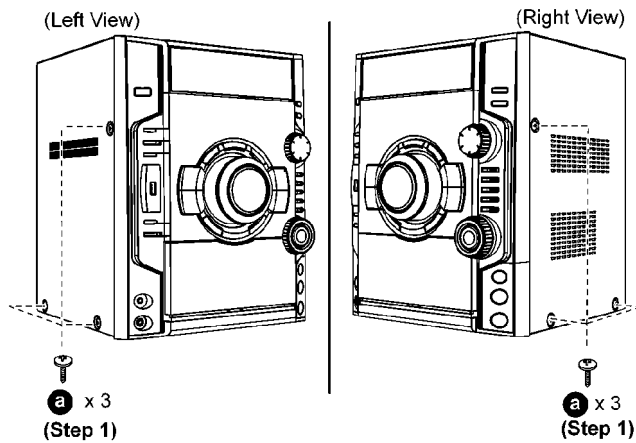
9.1. Disassembly Flow Chart



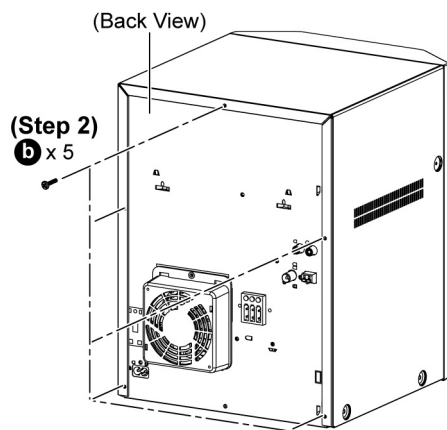
9.2. Main Components and P.C.B. Locations



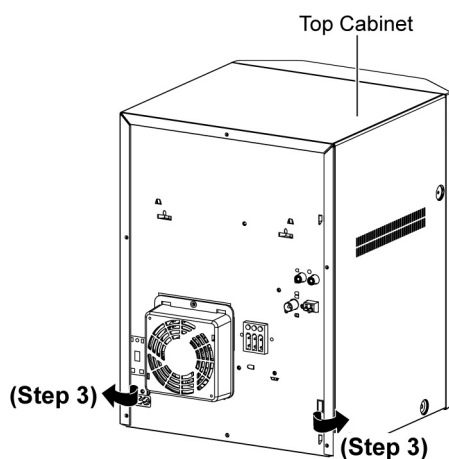
9.3. Disassembly of Top Cabinet



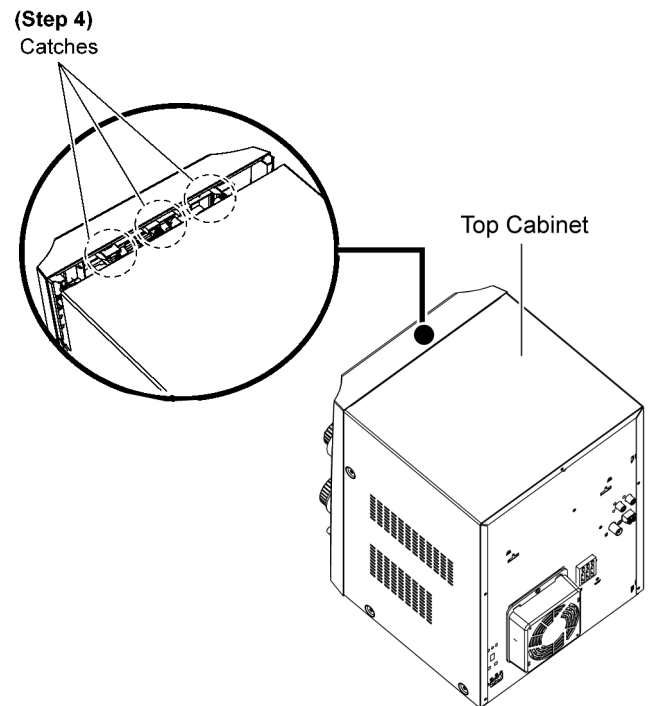
Step 1 : Remove 3 screws on each side.



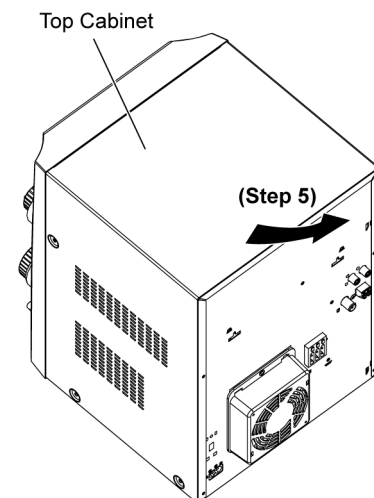
Step 2 : Remove 5 screws.



Step 3 : Slightly lift the sides of Top Cabinet outwards as arrow shown.



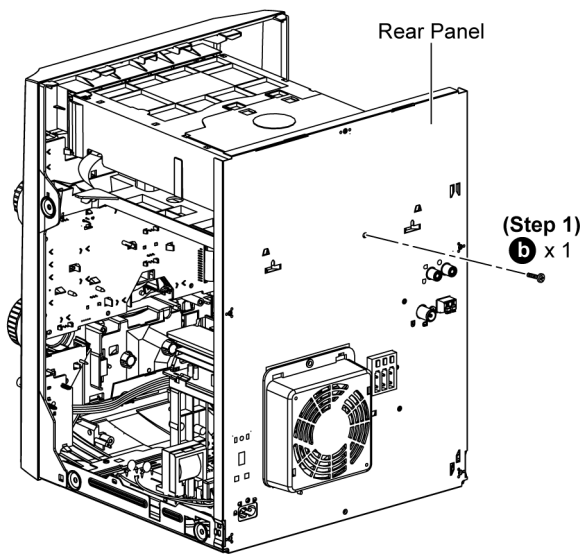
Step 4 : Push the Top Cabinet backwards as arrow shown to release the catches.



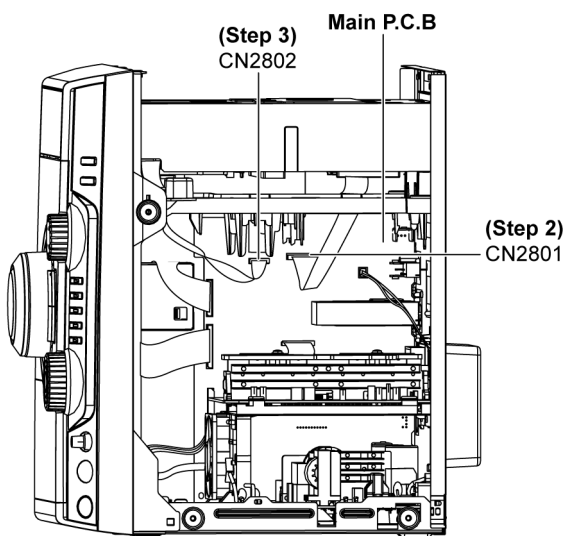
Step 5 : Remove the Top Cabinet.

9.4. Disassembly of CD Mechanism Unit (CR14C)

- Follow (Step 1) to (Step 5) of Item 9.3

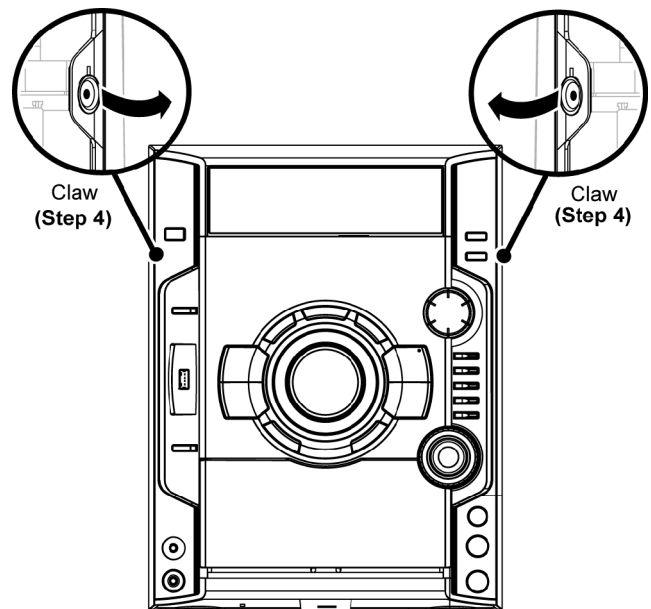


Step 1: Remove 1 screw.

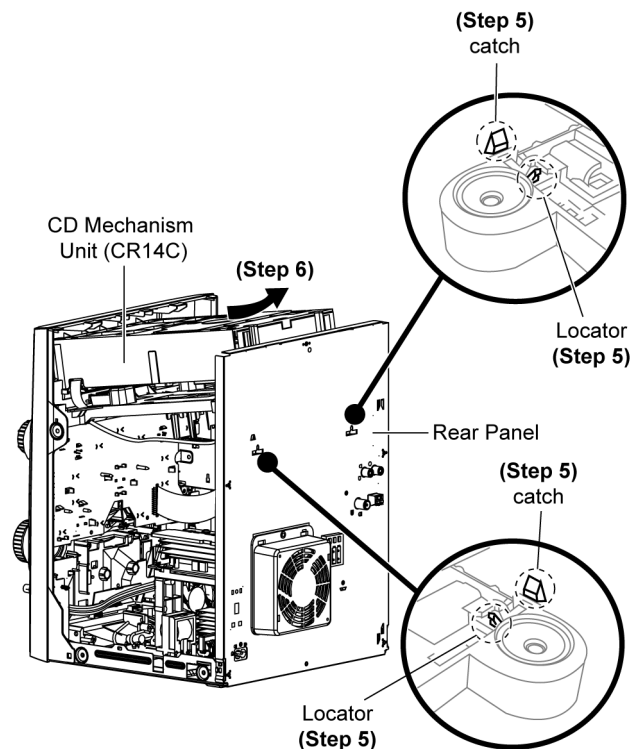


Step 2 : Detach 25P FFC at the connector (CN2801) on Main P.C.B.

Step 3 : Detach 11P FFC at the connector (CN2802) on Main P.C.B.



Step 4 : Release claws outwards on both sides.



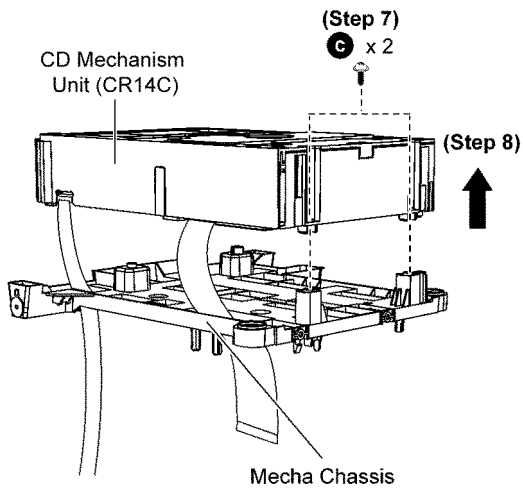
Step 5 : Release the CD Mechanism Unit (CR14C) from the catches & locators.

Step 6 : Lift up the CD Mechanism Unit (CR14C) as arrow shown to remove CD Mechanism Unit (CR14C).

Caution: During assembling, ensure the CD Mechanism Unit (CR14C) is seated properly on the locators.

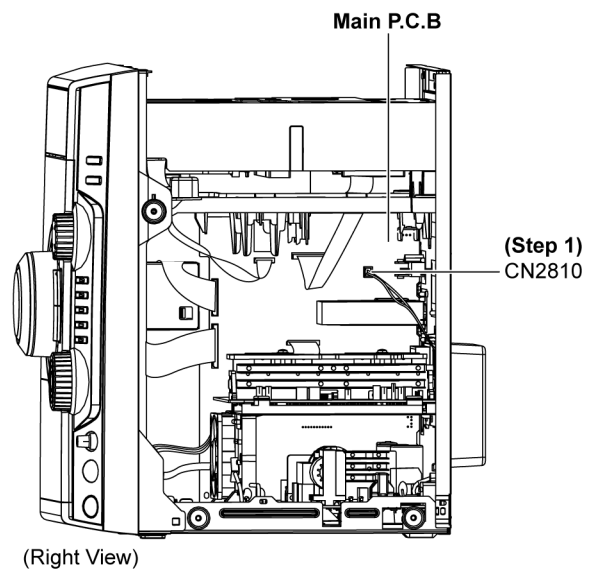
9.5. Disassembly of Rear Panel

- Follow (Step 1) to (Step 5) of Item 9.3



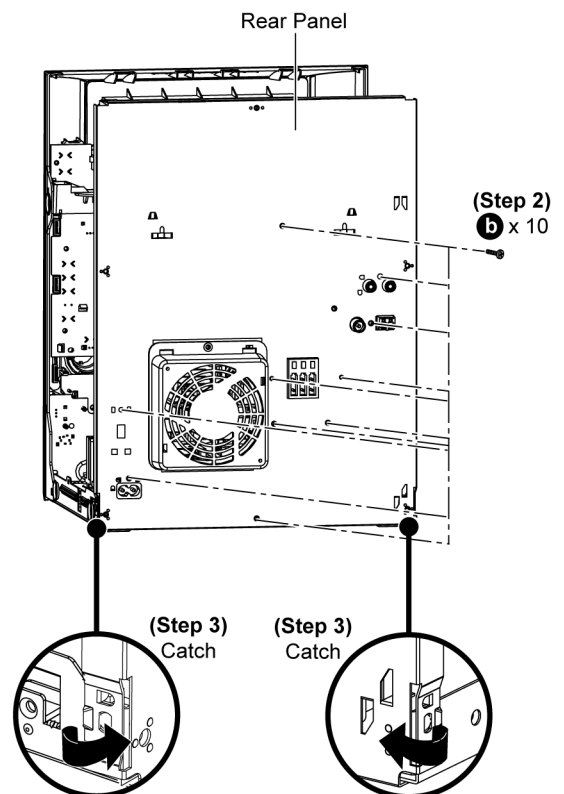
Step 7 : Remove 2 screws.

Step 8 : Remove the CD Mechanism Unit (CR14C).



Step 1 : Detach 2P wire at the connector (CN2810) on Main P.C.B..

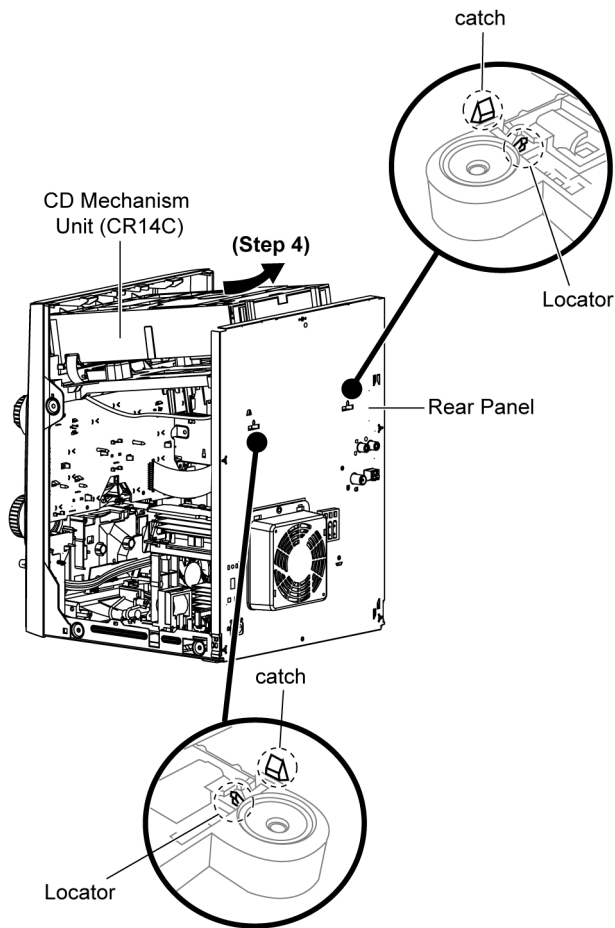
- For PH only



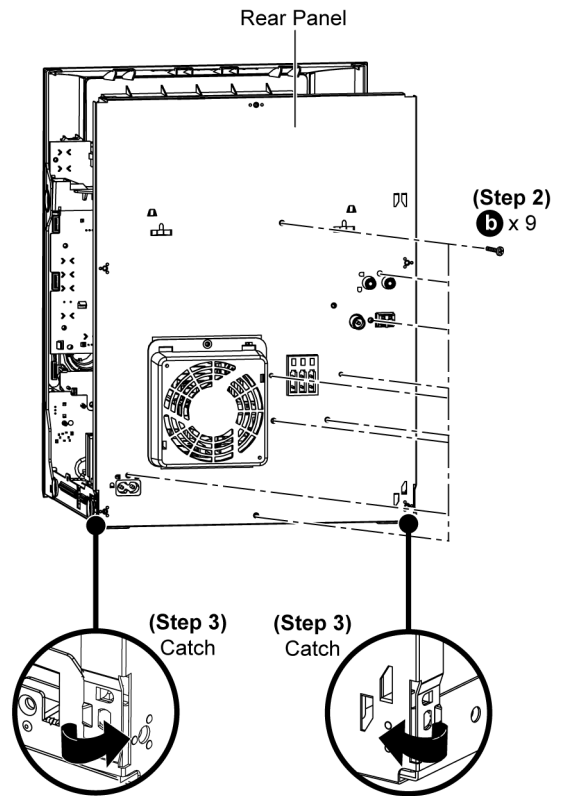
Step 2 : Remove 10 screws.

Step 3 : Release 2 catches from the each side of the Rear Panel.

• For PN only

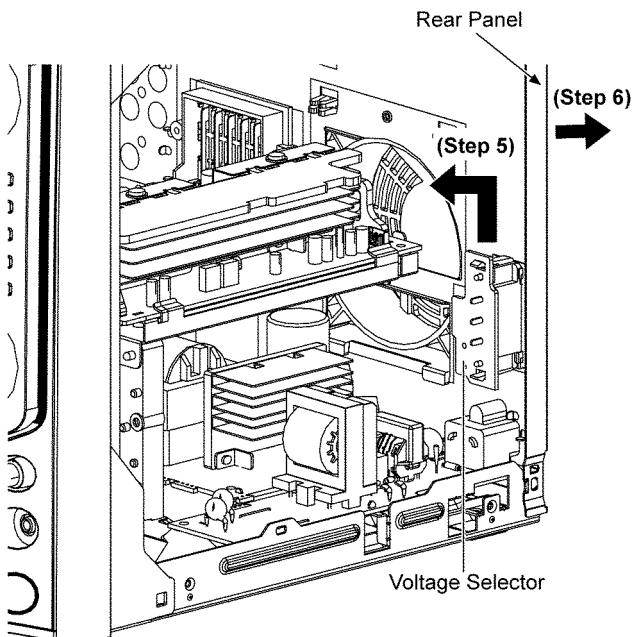


Step 4 : Slightly lift up the CD Mechanism Unit (CR14C) to release from the 2 locators.



Step 2 : Remove 9 screws.

Step 3 : Release 2 catches from the each side of the Rear Panel.

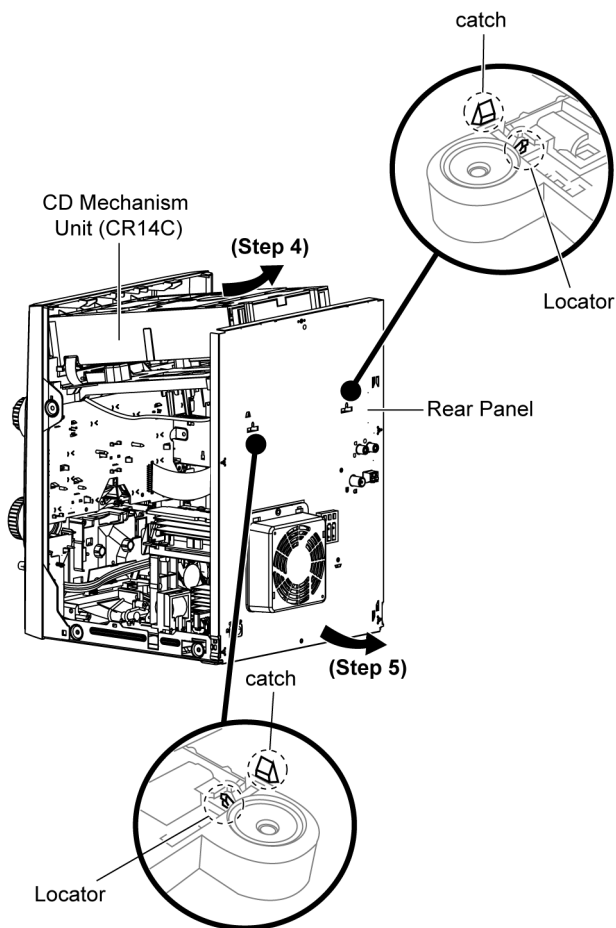


Step 5 : Detach Voltage Selector from Rear Panel as arrow shown.

Step 6 : Remove the Rear Panel.

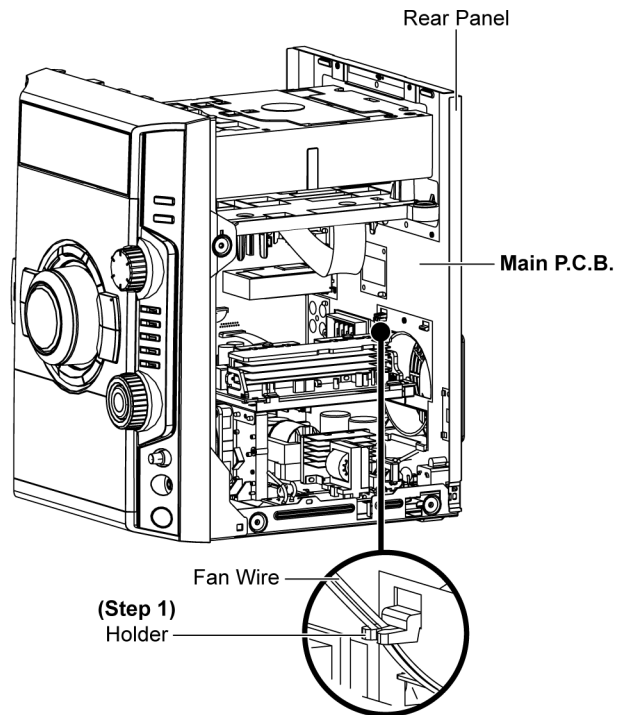
9.6. Disassembly of Fan Unit

- Follow (Step 1) to (Step 5) of Item 9.3
- Follow (Step 1) of Item 9.5

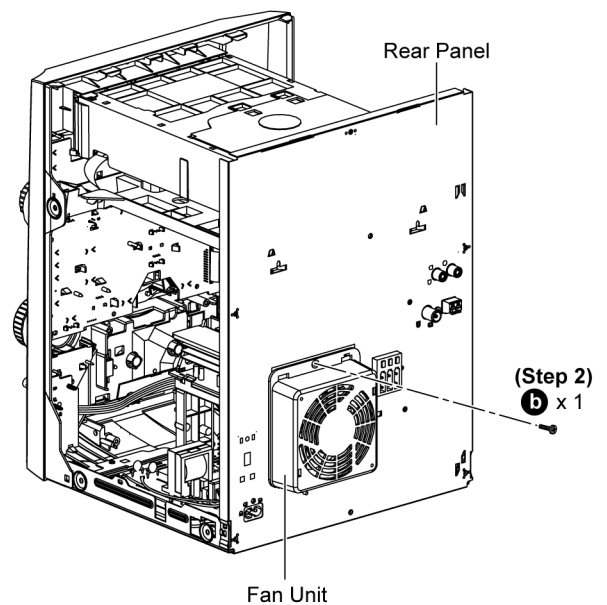


Step 4 : Slightly lift up the CD Mechanism Unit (CR14C) to release from the 2 locators.

Step 5 : Remove the Rear Panel.



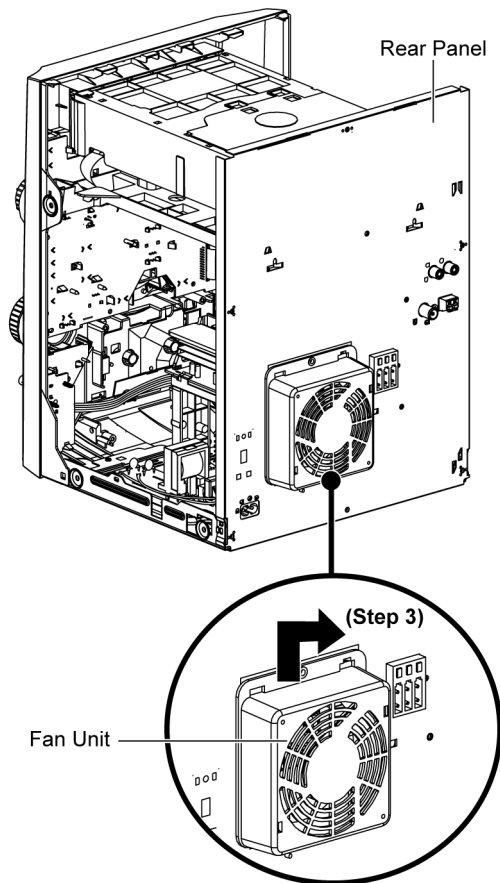
Step 1 : Release fan wire from the holder.



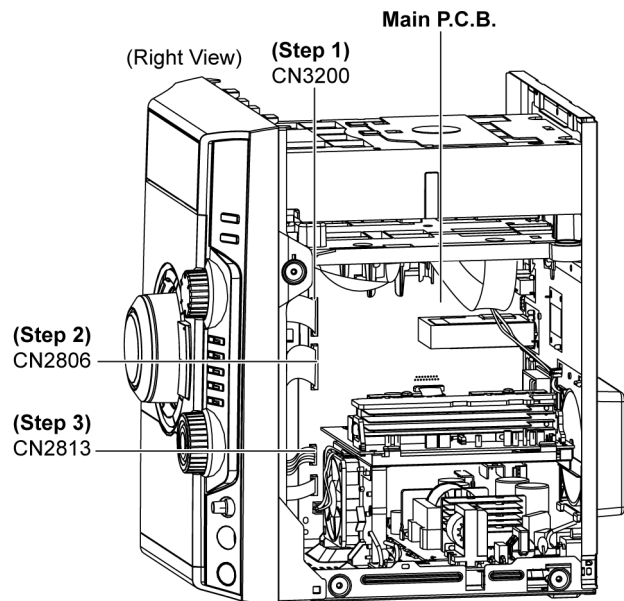
Step 2 : Remove 1 screw.

9.7. Disassembly of Front Panel Assembly

- Follow (Step 1) to (Step 5) of Item 9.3



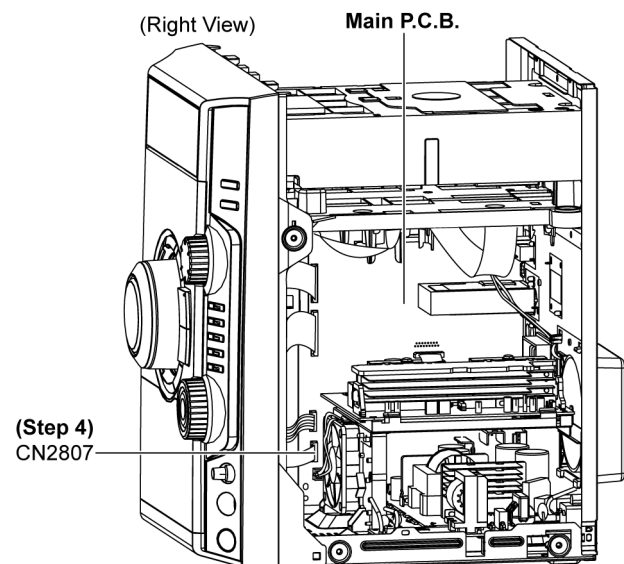
Step 3 : Remove the Fan Unit as arrow shown.



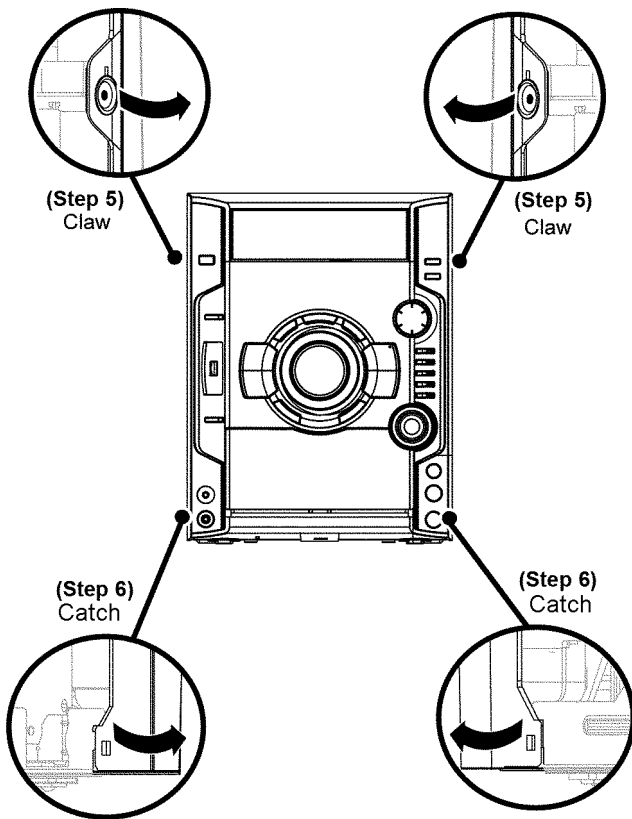
Step 1 : Detach 30P FFC at the connector (CN3200) on Main P.C.B.

Step 2 : Detach 27P FFC at the connector (CN2806) on Main P.C.B.

Step 3 : Detach 5P wire at the connector (CN2813) on Main P.C.B.



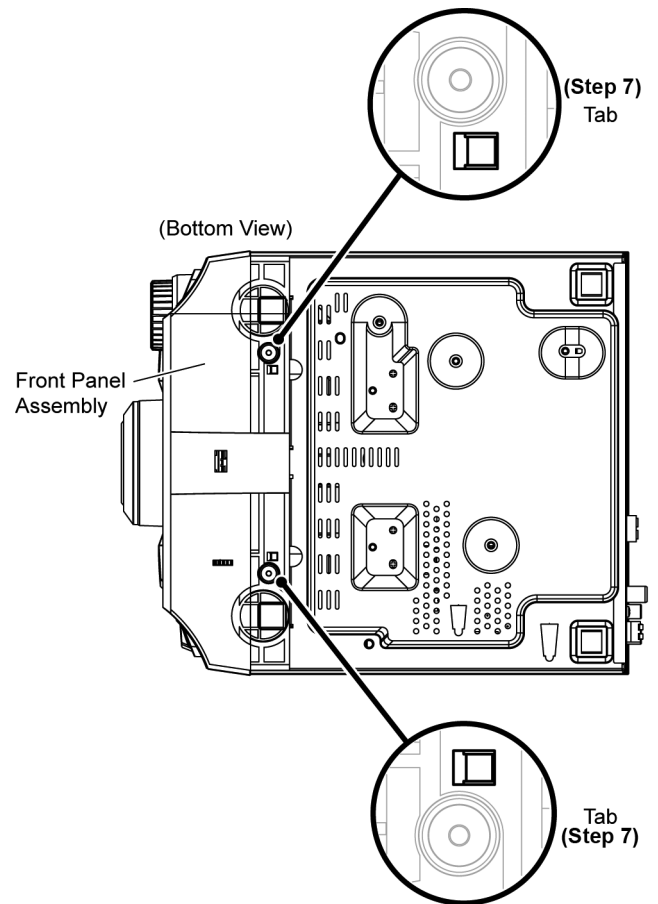
Step 4 : Detach 10P FFC at the connector (CN2807) on Main P.C.B.



Step 5 : Release claws on both sides.

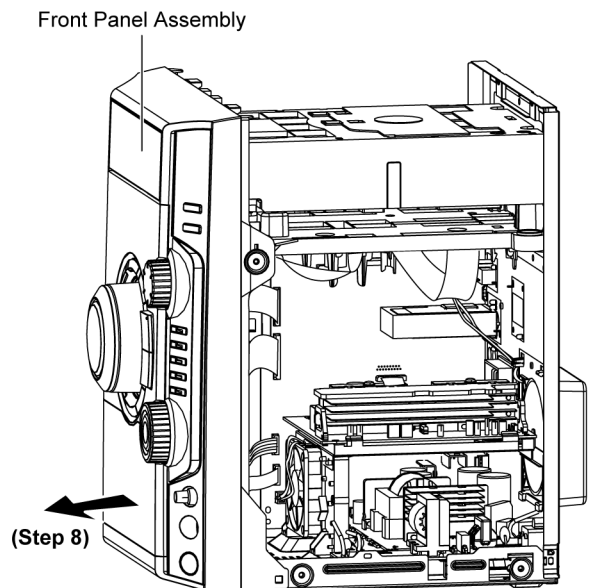
Step 6 : Release catches at both side.

Caution : During assembling, ensure both the claws and catches are fully caught.



Step 7 : Release tabs at the bottom.

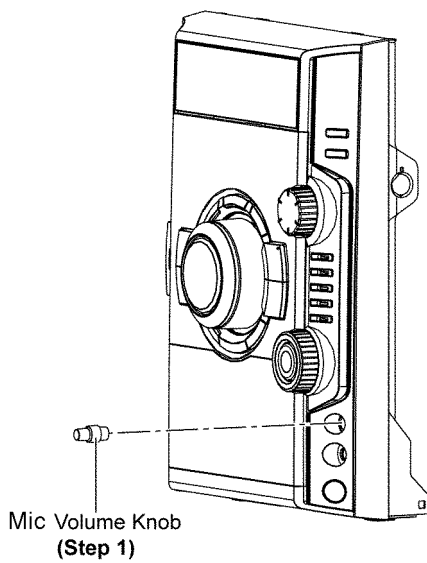
Caution : Do not exert strong force when releasing the tabs.



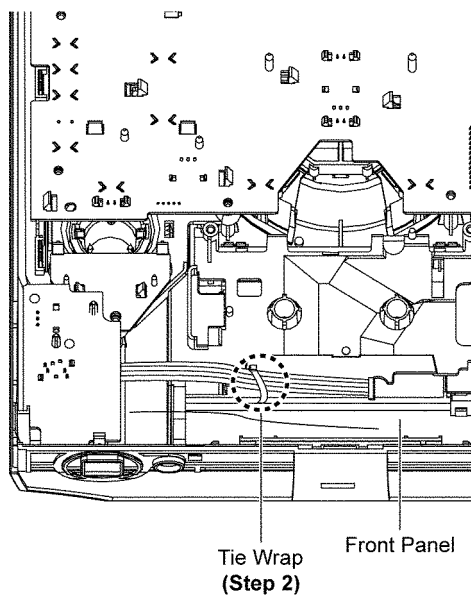
Step 8 : Remove the Front Panel Assembly as arrow shown.

9.8. Disassembly of Mic P.C.B.

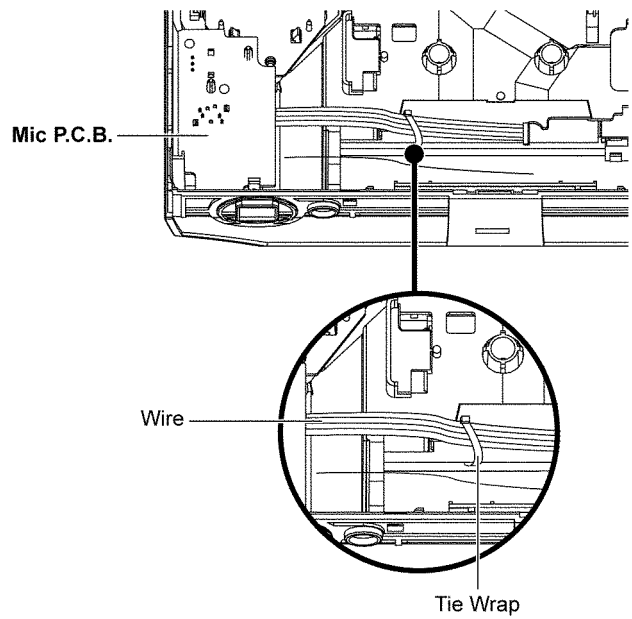
- Follow (Step 1) to (Step 5) of Item 9.3
- Follow (Step 1) to (Step 8) of Item 9.7



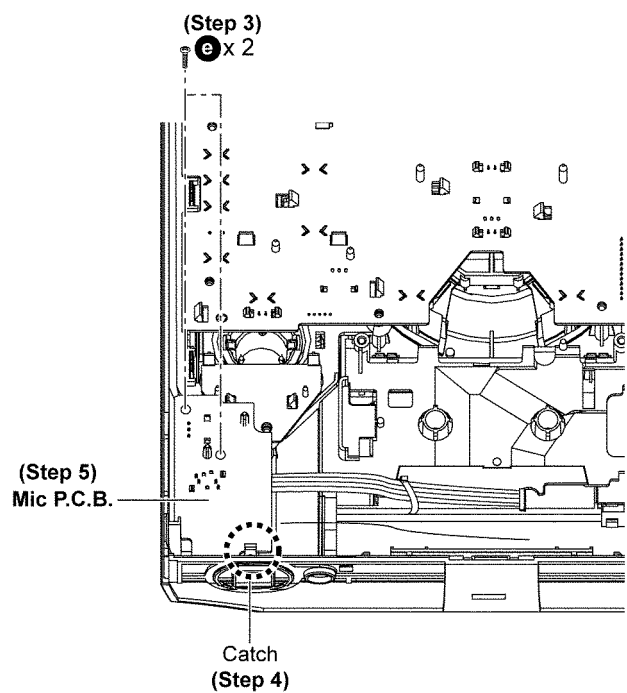
Step 1 : Remove the Mic Volume Knob.



Step 2 : Cut the tie wrap.



Caution : Remember to tie the 5P wire with tie wrap to the Front Panel as diagram shown.



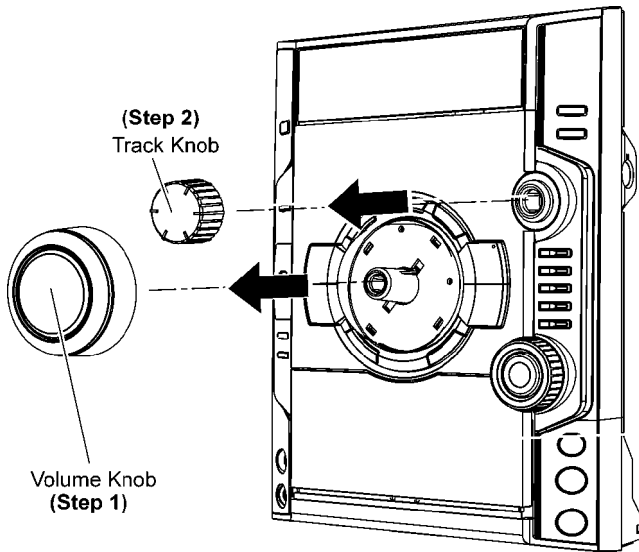
Step 3 : Remove 2 screws.

Step 4 : Release the catch.

Step 5 : Remove the Mic P.C.B..

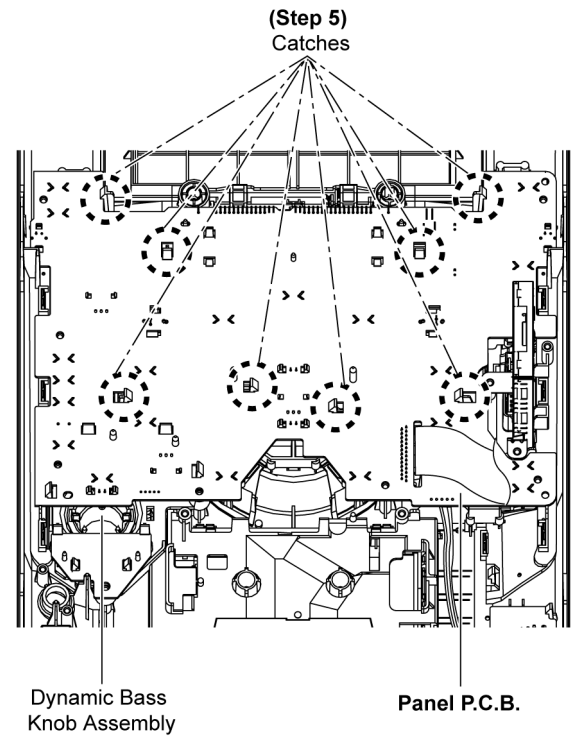
9.9. Disassembly of Panel P.C.B.

- Follow (Step 1) to (Step 5) of Item 9.3
- Follow (Step 1) to (Step 8) of Item 9.7
- Follow (Step 1) to (Step 5) of Item 9.8

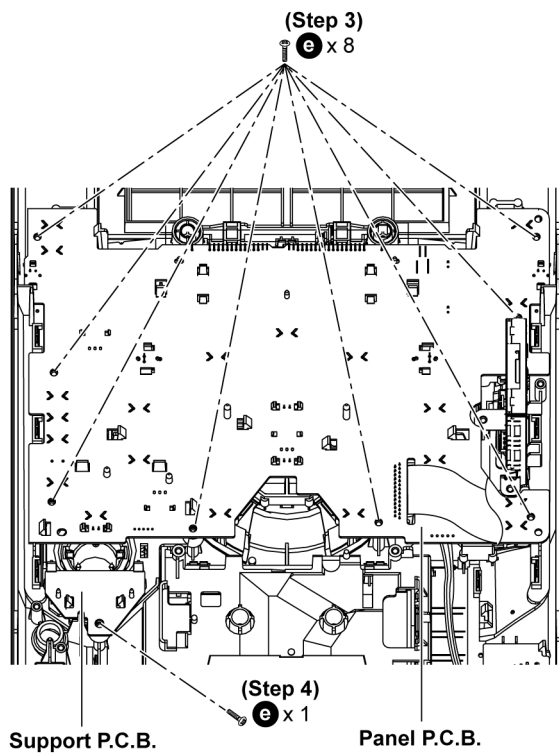


Step 1 : Remove the Volume Knob.

Step 2 : Remove the Track Knob.

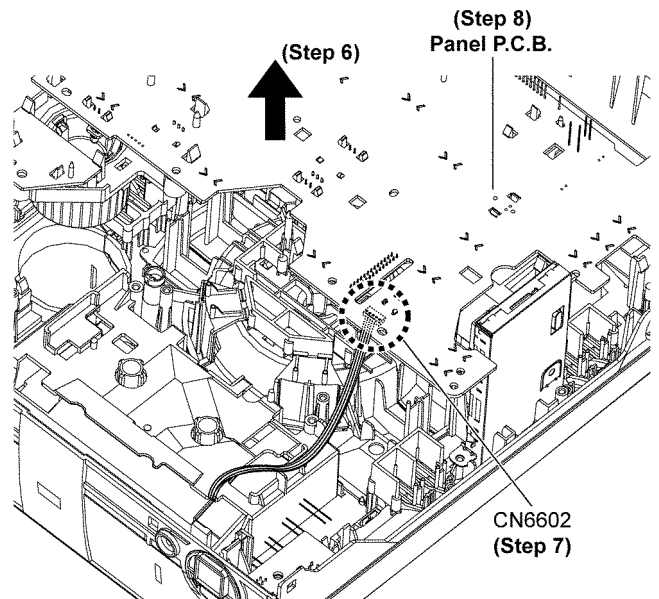


Step 5 : Release 8 catches.



Step 3 : Remove 8 screws.

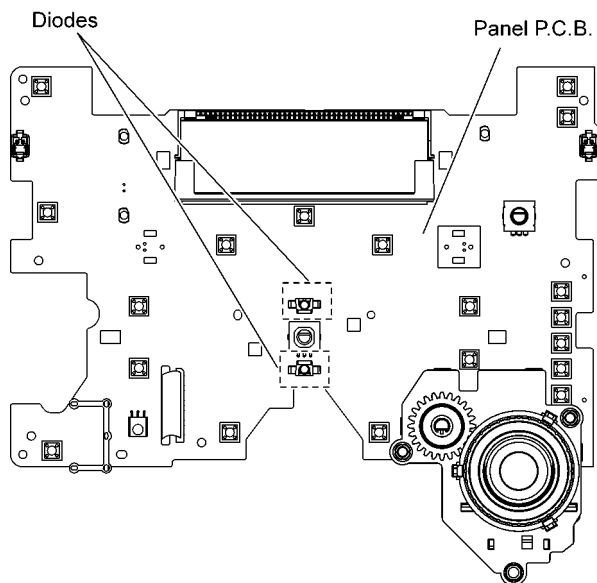
Step 4 : Remove 1 screw.



Step 6 : Lift up the Panel P.C.B. slightly.

Step 7 : Detach 5P wire at the connector (CN6602) on Panel P.C.B..

Step 8 : Remove the Panel P.C.B..

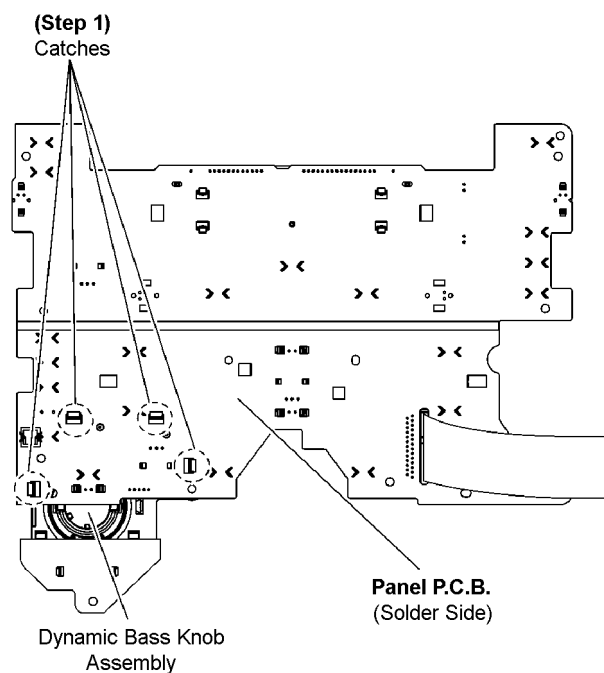


Caution : During assembling of Panel P.C.B., ensure that the diodes on Panel P.C.B. are in upright position.

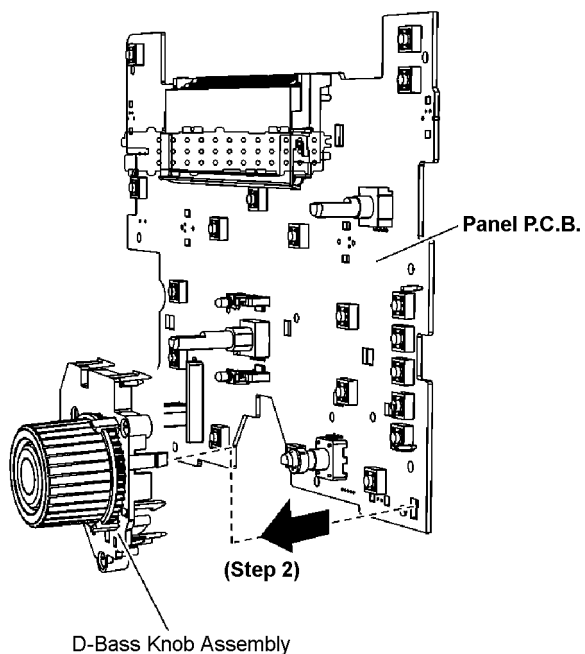
9.10. Disassembly of Dynamic Bass Knob & Dynamic Bass Button Unit

- Follow (Step 1) to (Step 5) of Item 9.3
- Follow (Step 1) to (Step 8) of Item 9.7
- Follow (Step 1) to (Step 5) of Item 9.8
- Follow (Step 1) to (Step 8) of Item 9.9

9.10.1. Disassembly of Dynamic Bass Knob

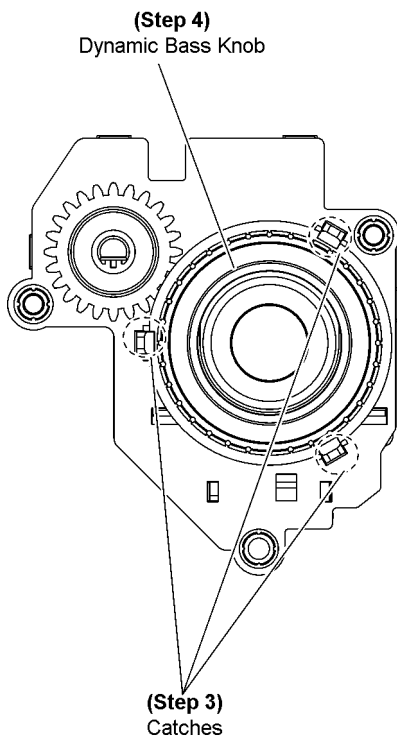


Step 1 : Release 4 catches.



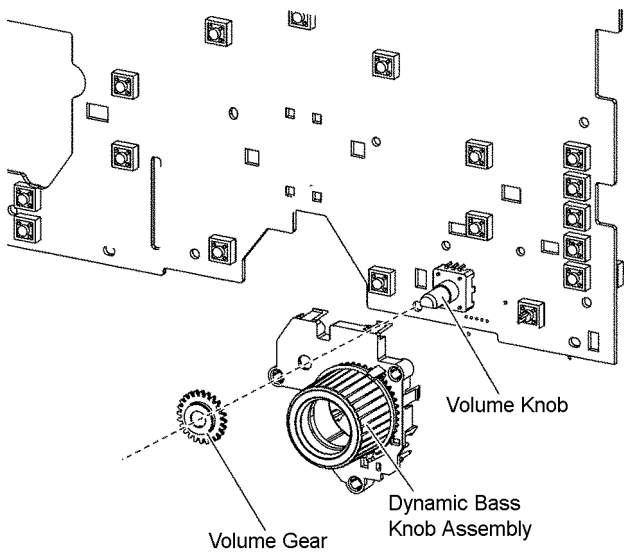
Step 2 : Remove the Dynamic Bass Knob Assembly.

9.10.2. Disassembly of Dynamic Bass Button Unit



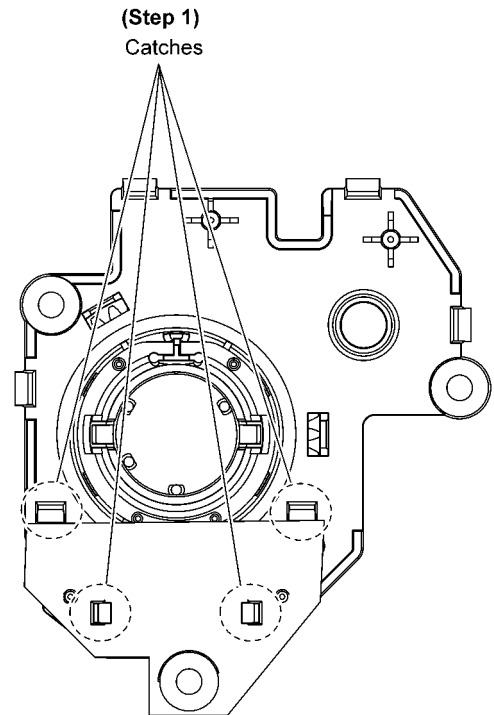
Step 3 : Release 3 catches.

Step 4 : Remove the Dynamic Bass Knob.

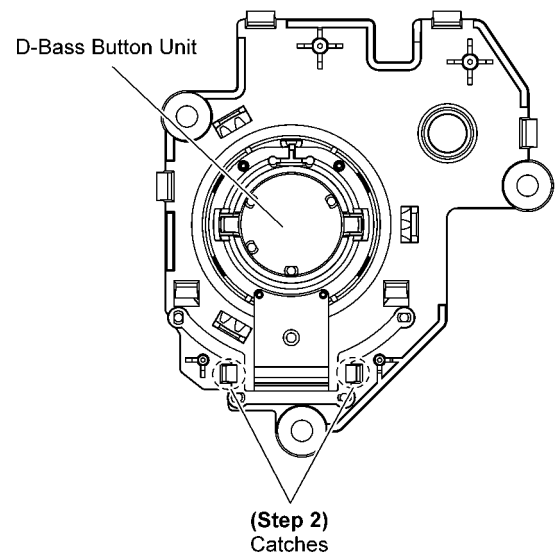


Caution 1 : Do not misplace the Volume Gear.

Caution 2 : Volume gear to align to Volume Knob & engage to Dynamic Bass Knob during assembly.



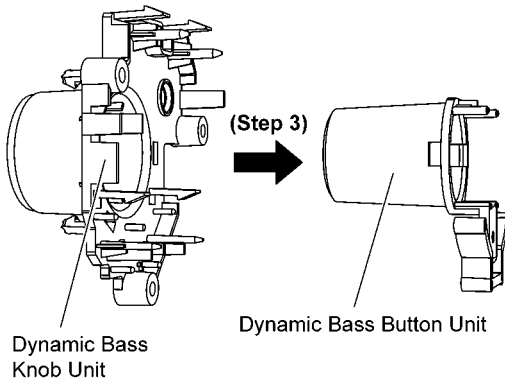
Step 1 : Release 4 catches.



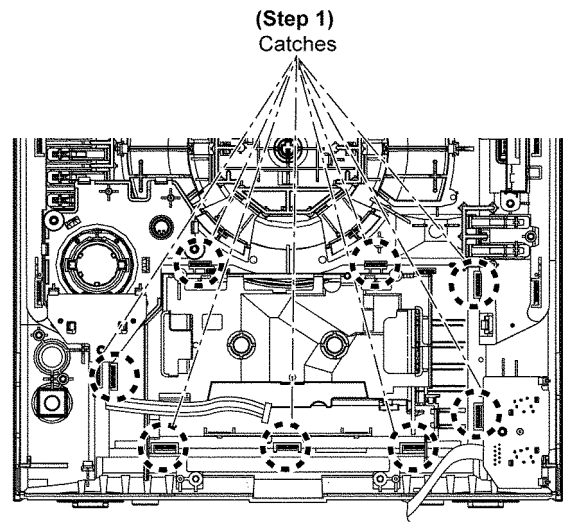
Step 2 : Release 2 catches.

9.11. Disassembly of Memory P.C.B.

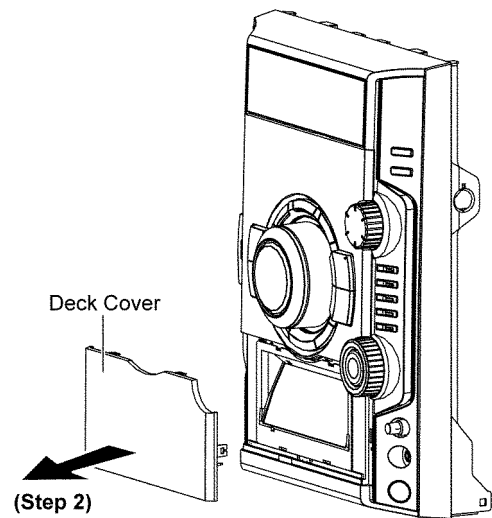
- Follow (Step 1) to (Step 5) of Item 9.3
- Follow (Step 1) to (Step 8) of Item 9.7
- Follow (Step 1) to (Step 5) of Item 9.8
- Follow (Step 1) to (Step 8) of Item 9.9



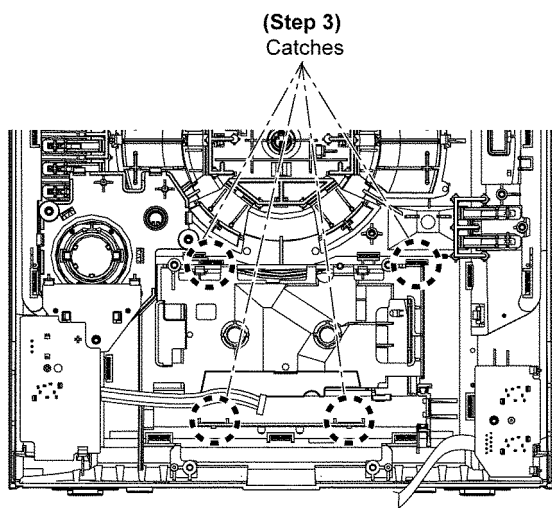
Step 3 : Remove the Dynamic Bass Button Unit.



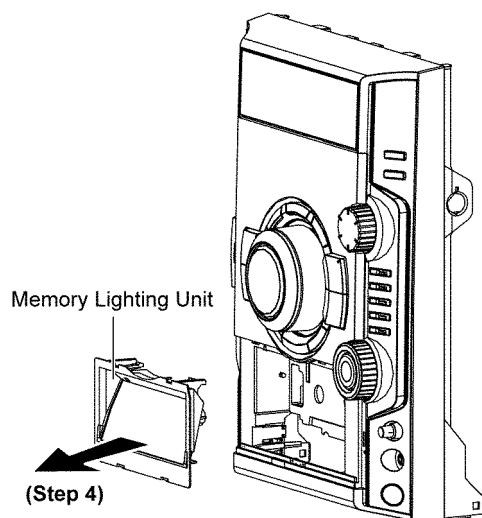
Step 1 : Release 8 catches.



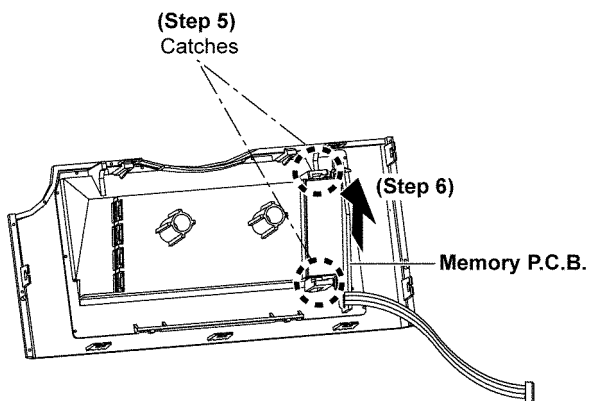
Step 2 : Remove the Deck Cover.



Step 3 : Release 4 catches.



Step 4 : Remove the Memory Lighting Unit.

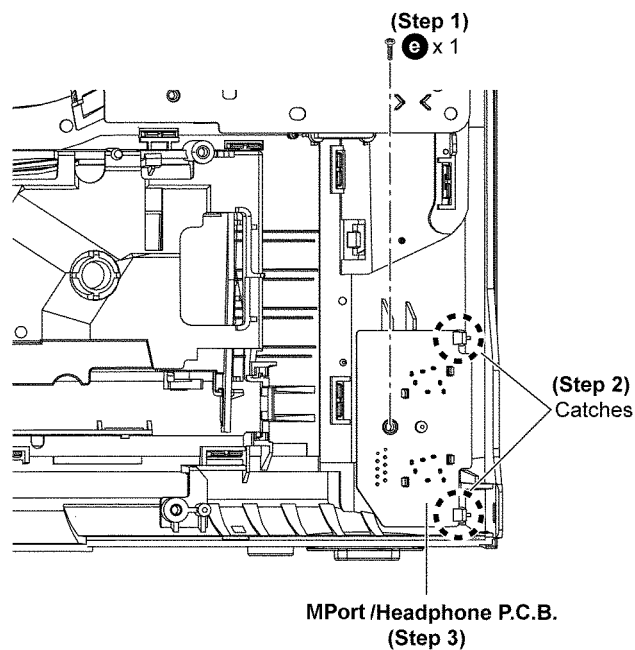


Step 5 : Release 2 catches.

Step 6 : Remove the Memory P.C.B. as arrow shown.

9.12. Disassembly of MPort/Headphone P.C.B.

- Follow (Step 1) to (Step 5) of Item 9.3
- Follow (Step 1) to (Step 8) of Item 9.7



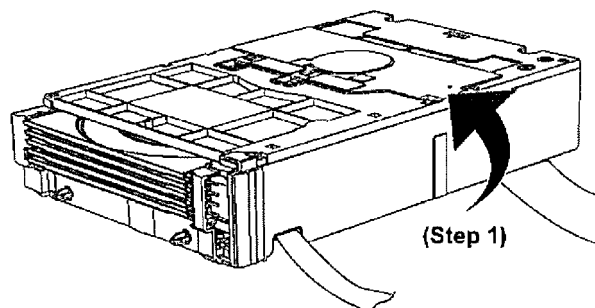
Step 1 : Remove 1 screw.

Step 2 : Release 2 catches.

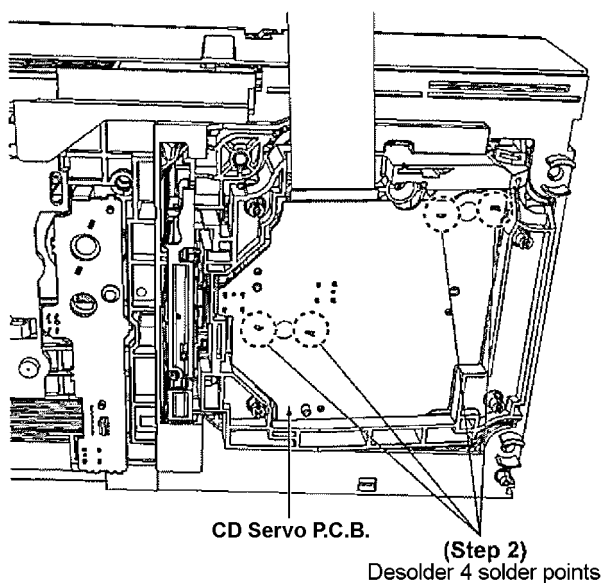
Step 3 : Remove the MPort/Headphone P.C.B..

9.13. Disassembly of CD Servo P.C.B.

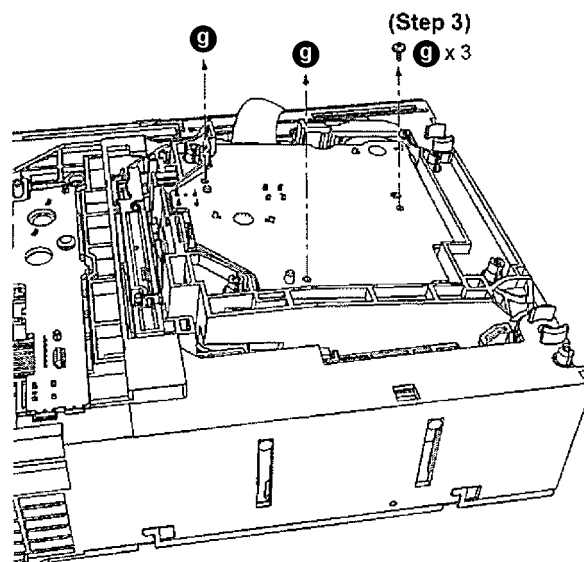
- Follow (Step 1) to (Step 5) of Item 9.3
- Follow (Step 1) to (Step 8) of Item 9.4



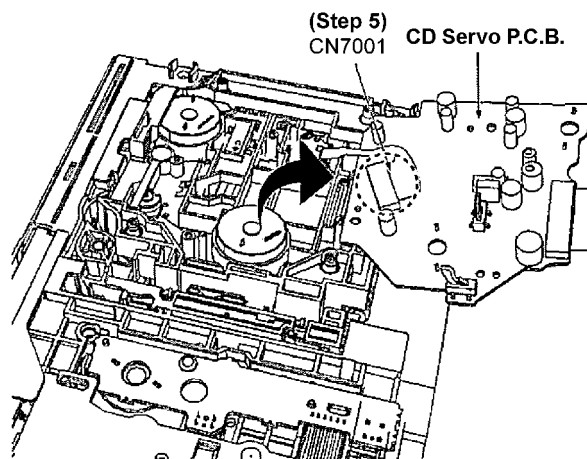
Step 1 : Upset the CD Mechanism Unit (CR14C).



Step 2 : Desolder 4 solder points.



Step 3 : Remove 3 screws.



Step 4 : Flip over the CD Servo P.C.B..

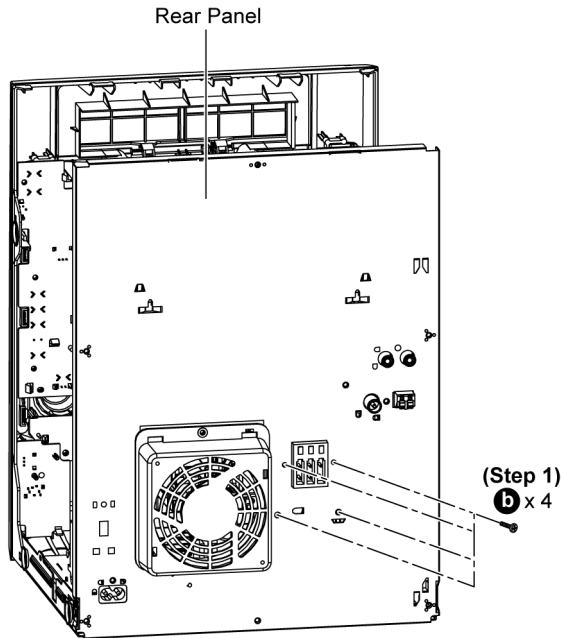
Step 5 : Detach the 16P FFC at connector (CN7001) at CD Servo P.C.B..

Step 6 : Remove CD Servo P.C.B..

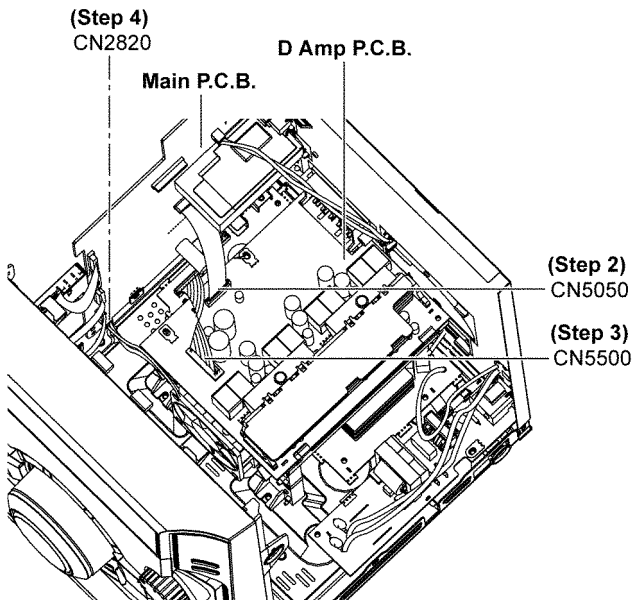
9.14. Disassembly of D-Amp P.C.B. & Fan

- Follow (Step 1) to (Step 5) of Item 9.3
- Follow (Step 1) to (Step 6) of Item 9.4

9.14.1. Disassembly of D-Amp P.C.B.



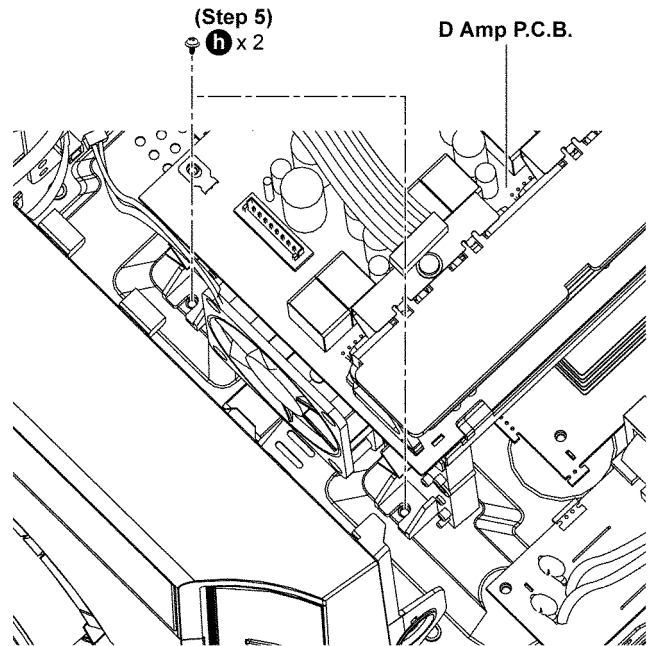
Step 1 : Remove 4 screws.



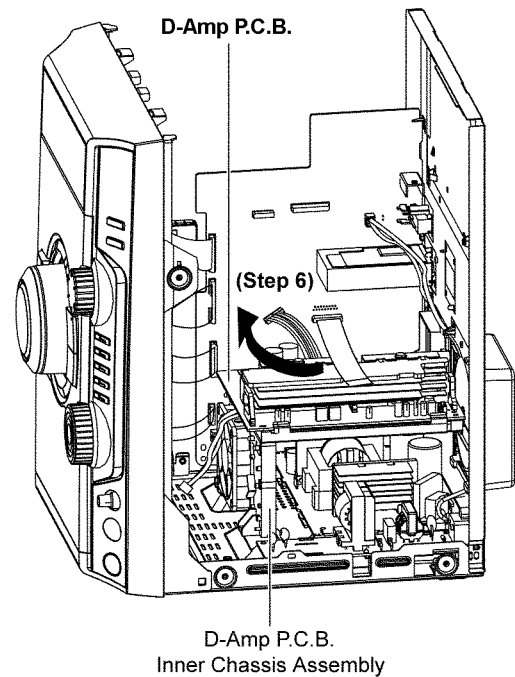
Step 2 : Detach 17P FFC at the connector (CN5050) on D-Amp P.C.B..

Step 3 : Detach 8P wire at the connector (CN5500) on D-Amp P.C.B..

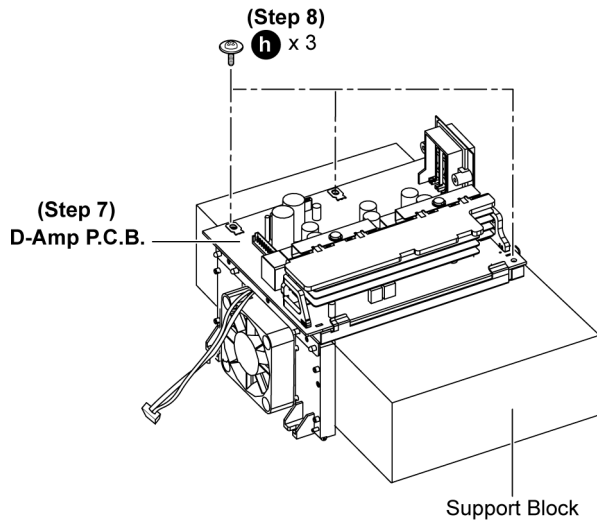
Step 4 : Detach 2P wire at the connector (CN2820) on Main P.C.B..



Step 5 : Remove 2 screws.

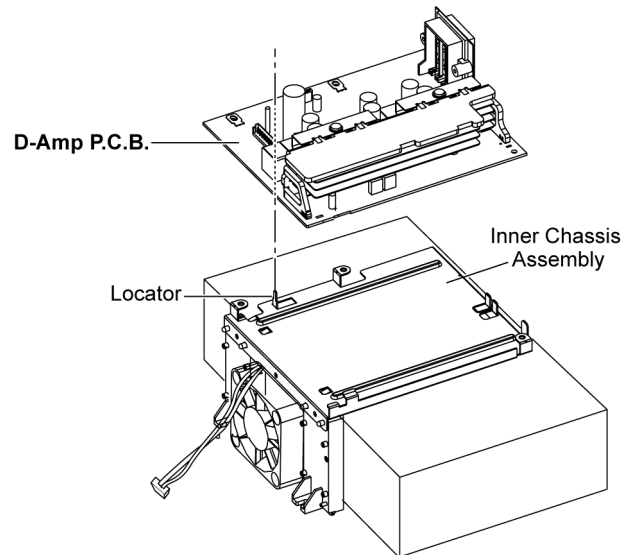


Step 6 : Lift up the D-Amp P.C.B. together with inner chassis assembly as arrow shown.



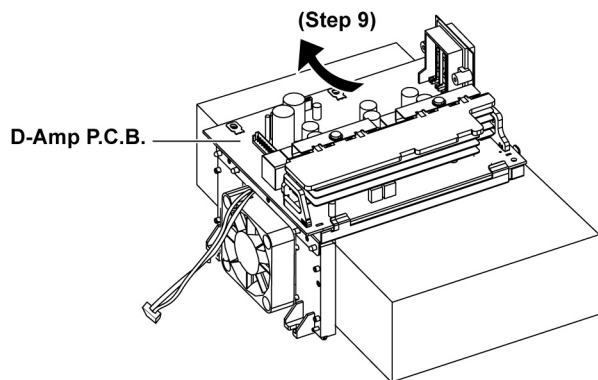
Step 7 : Place the D-Amp P.C.B. on a support block.

Step 8 : Remove 3 screws.

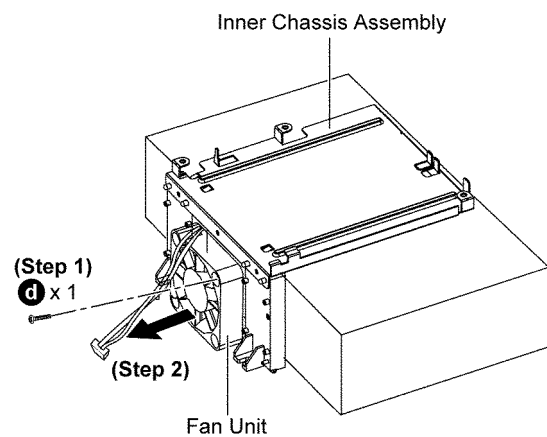


Caution: During assembling, ensure the D-Amp P.C.B. is seated properly on the locator of the Inner Chassis.

9.14.2. Disassembly of Fan Unit



Step 9 : Lift up to remove the D-Amp P.C.B..



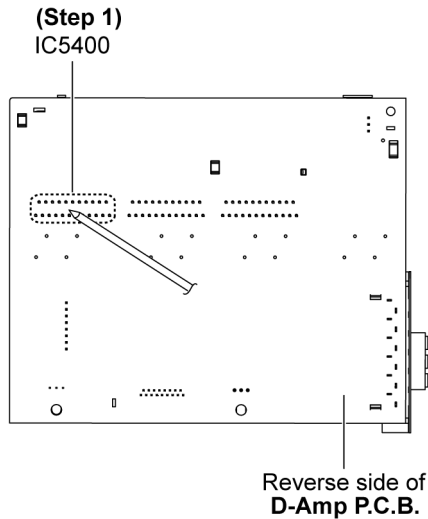
Step 1 : Remove 1 screw.

Step 2 : Remove the Fan Unit.

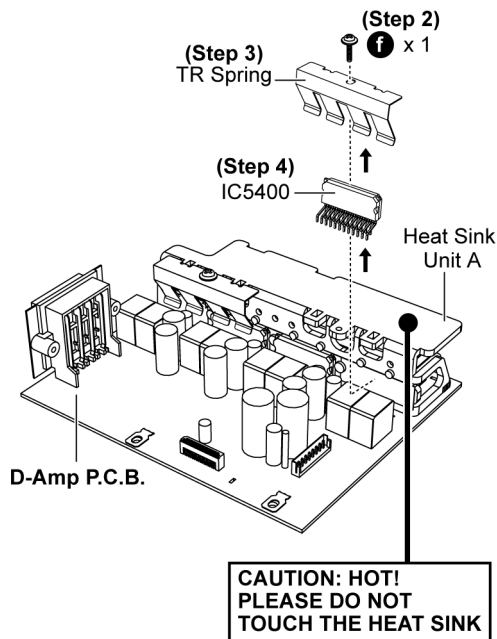
9.15. Replacement of Audio Digital Amp IC (IC5400)

- Follow (Step 1) to (Step 5) of Item 9.3
- Follow (Step 1) to (Step 6) of Item 9.4
- Follow (Step 1) to (Step 9) of Item 9.14

9.15.1. Disassembly of Audio Digital Amp IC (IC5400)



Step 1 : Desolder pins of Audio Digital Amp IC (IC5400) on reverse side of D-Amp P.C.B..



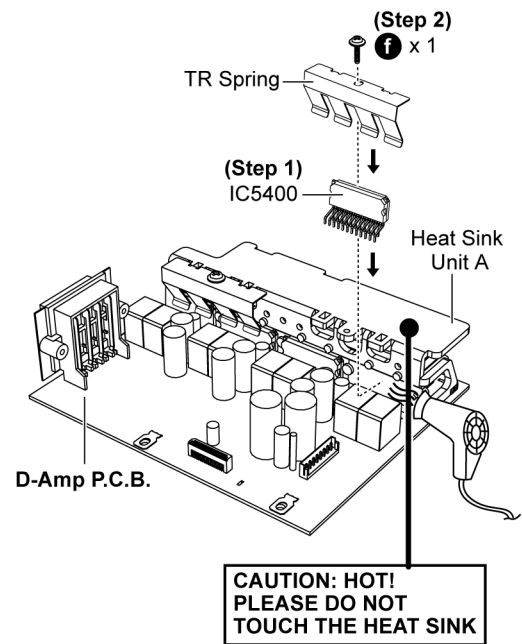
Step 2 : Remove 1 screw.

Step 3 : Remove TR Spring as arrow shown.

Step 4 : Remove Audio Digital Amp IC (IC5400) from the Heat-sink Unit A.

Caution : During replacement of the part, avoid touching the Heatsink, it may lead to injuries.

9.15.2. Assembly of Audio Digital Amp IC (IC5400)



Step 1 : Mount the Audio Digital Amp IC (IC5400) on to the D-Amp P.C.B..

Step 2 : Screw back TR Spring to hold the Audio Digital Amp IC (IC5400) onto the Heatsink Unit A.

Step 3 : Solder the pins of Audio Digital Amp IC (IC5400).

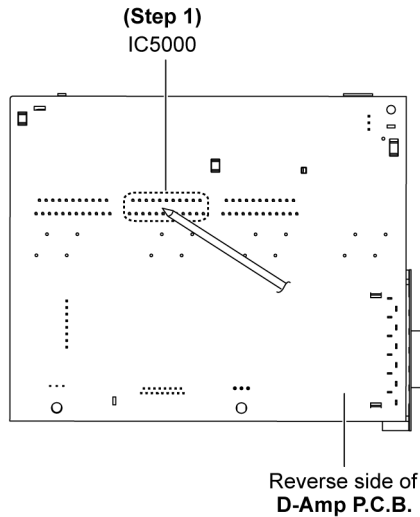
Step 4 : Use a blower to remove the minute particles after the screwing of TR Spring.

Caution : Ensure pins of the Audio Digital Amp IC (IC5400) are properly seated and soldered on D-Amp P.C.B..

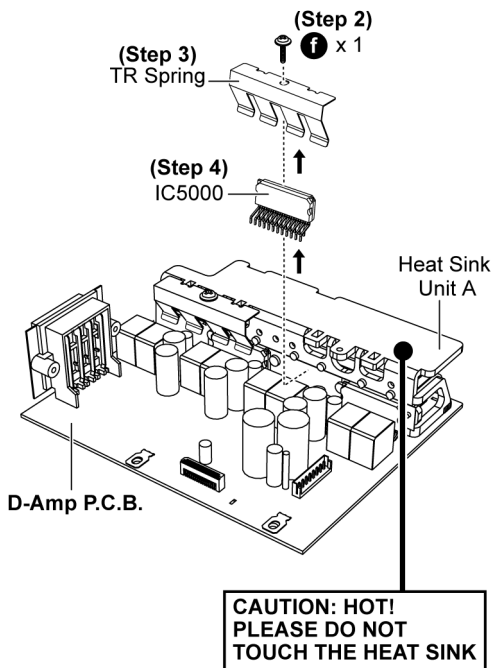
9.16. Replacement of Audio Digital Amp IC (IC5000)

- Follow (Step 1) to (Step 5) of Item 9.3
- Follow (Step 1) to (Step 6) of Item 9.4
- Follow (Step 1) to (Step 9) of Item 9.14

9.16.1. Disassembly of Audio Digital Amp IC (IC5000)



Step 1 : Desolder pins of Audio Digital Amp IC (IC5000) on reverse side of D-Amp P.C.B..



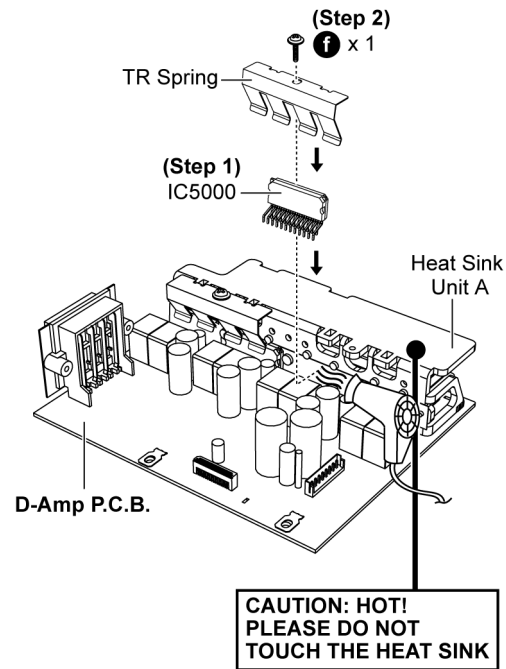
Step 2 : Remove 1 screw.

Step 3 : Remove TR Spring as arrow shown.

Step 4 : Remove Audio Digital Amp IC (IC5000) from the Heat-sink Unit A.

Caution : During replacement of the part, avoid touching the Heatsink, it may lead to injuries.

9.16.2. Assembly of Audio Digital Amp IC (IC5000)



Step 1 : Mount the Audio Digital Amp IC (IC5000) on to the D-Amp P.C.B..

Step 2 : Screw back TR Spring to hold the Audio Digital Amp IC (IC5000) onto the Heatsink Unit A.

Step 3 : Solder the pins of Audio Digital Amp IC (IC5000).

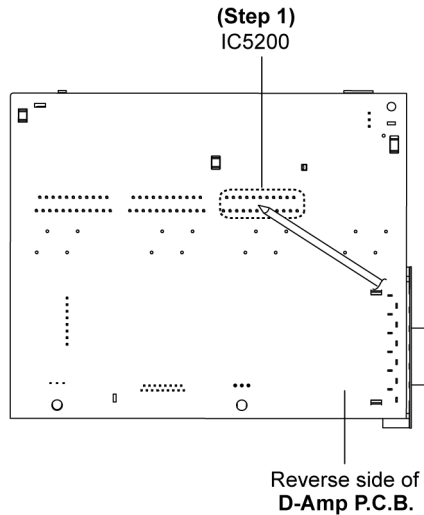
Step 4 : Use a blower to remove the minute particles after the screwing of TR Spring.

Caution : Ensure pins of the Audio Digital Amp IC (IC5000) are properly seated and soldered on D-Amp P.C.B..

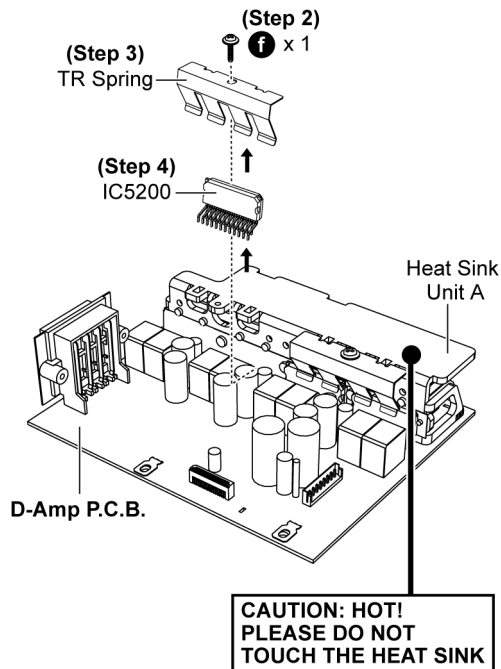
9.17. Replacement of Audio Digital Amp IC (IC5200)

- Follow (Step 1) to (Step 5) of Item 9.3
- Follow (Step 1) to (Step 6) of Item 9.4
- Follow (Step 1) to (Step 9) of Item 9.14

9.17.1. Disassembly of Audio Digital Amp IC (IC5200)



Step 1 : Desolder pins of Audio Digital Amp IC (IC5200) on reverse side of D-Amp P.C.B..



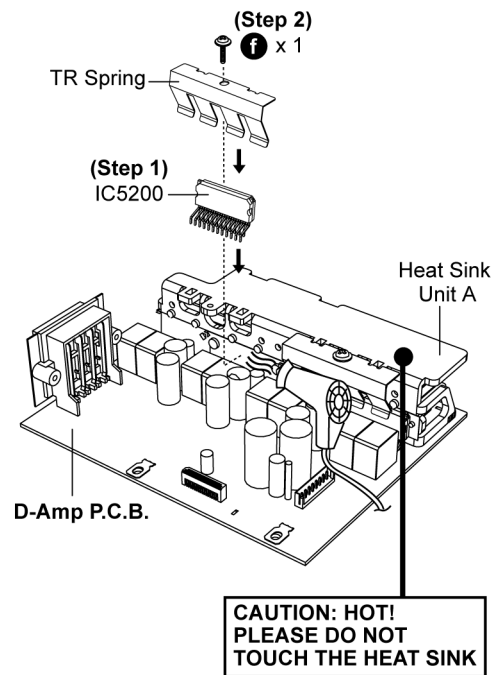
Step 2 : Remove 1 screw.

Step 3 : Remove TR Spring as arrow shown.

Step 4 : Remove Audio Digital Amp IC (IC5200) from the Heat-sink Unit A.

Caution : During replacement of the part, avoid touching the Heatsink, it may lead to injuries.

9.17.2. Assembly of Audio Digital Amp IC (IC5200)



Step 1 : Mount the Audio Digital Amp IC (IC5200) on to the D-Amp P.C.B..

Step 2 : Screw back TR Spring to hold the Audio Digital Amp IC (IC5200) onto the Heatsink Unit A.

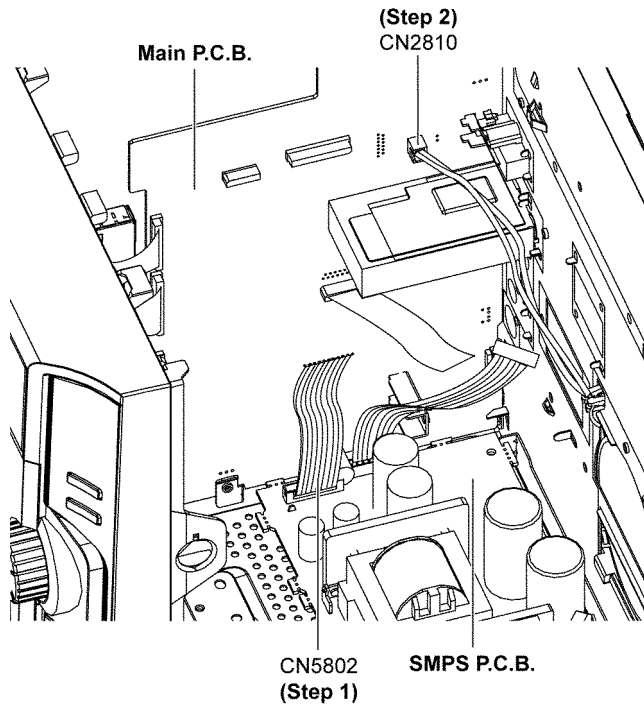
Step 3 : Solder the pins of Audio Digital Amp IC (IC5200).

Step 4 : Use a blower to remove the minute particles after the screwing of TR Spring.

Caution : Ensure pins of the Audio Digital Amp IC (IC5200) are properly seated and soldered on D-Amp P.C.B..

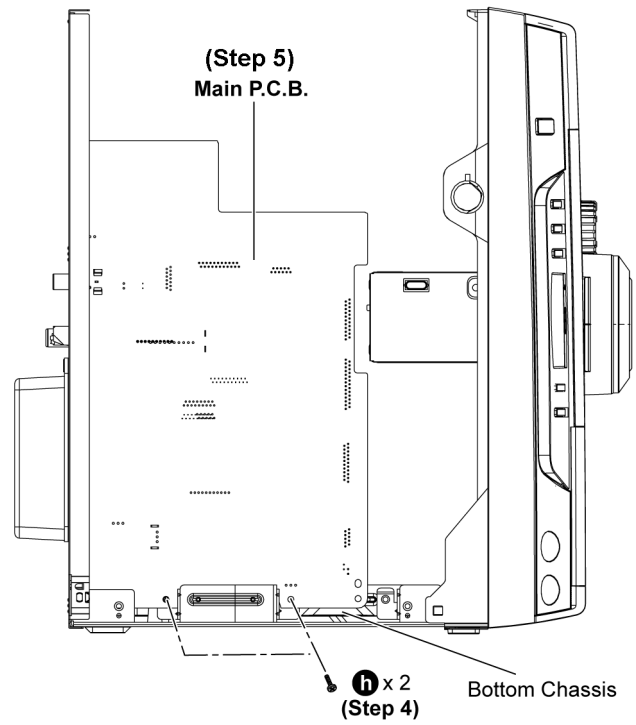
9.18. Disassembly of Main P.C.B.

- Follow (Step 1) to (Step 5) of Item 9.3
- Follow (Step 1) to (Step 6) of Item 9.4
- Follow (Step 1) to (Step 4) of Item 9.7
- Follow (Step 1) to (Step 6) of Item 9.14



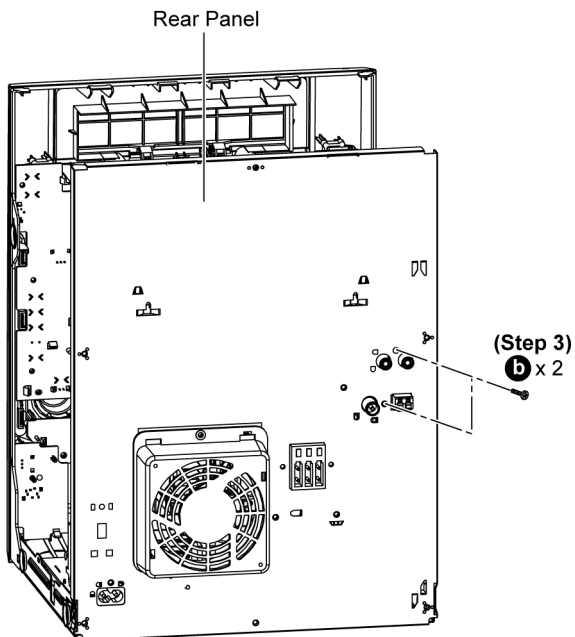
Step 1 : Detach 11P wire at the connector (CN5802) on SMPS P.C.B..

Step 2 : Detach 2P wire at the connector (CN2810) on Main P.C.B..



Step 4 : Remove 2 screws on at bottom chassis.

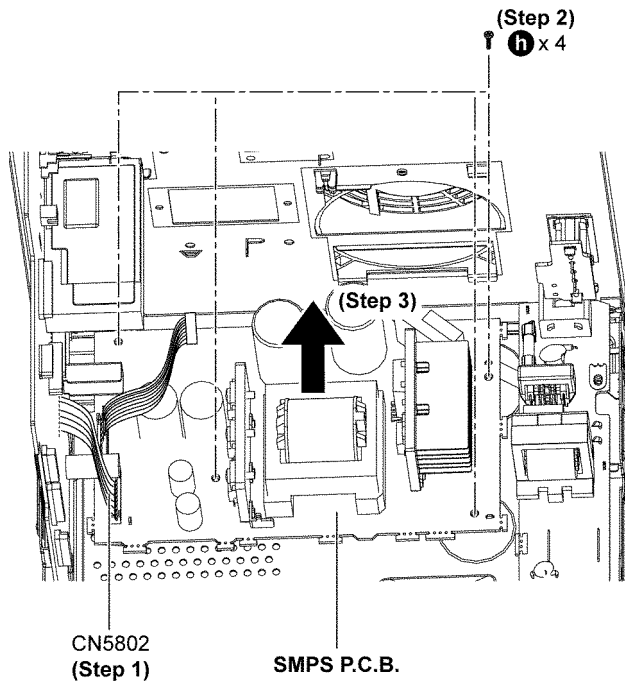
Step 5 : Remove the Main P.C.B..



Step 3 : Remove 2 screws at the Rear Panel.

9.19. Disassembly of SMPS P.C.B.

- Follow (Step 1) to (Step 5) of Item 9.3
- Follow (Step 1) to (Step 6) of Item 9.4
- Follow (Step 1) to (Step 6) of Item 9.14

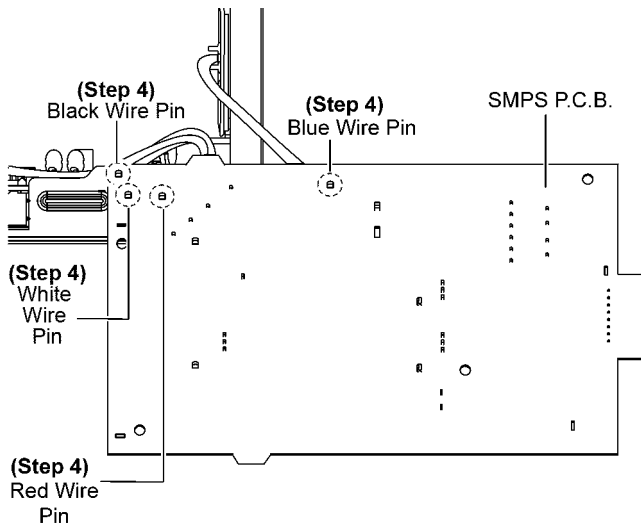


Step 1 : Detach 11P wire at the connector (CN5802) on SMPS P.C.B..

Step 2 : Remove 4 screws.

Step 3 : Lift up and remove the SMPS P.C.B. as arrow shown.

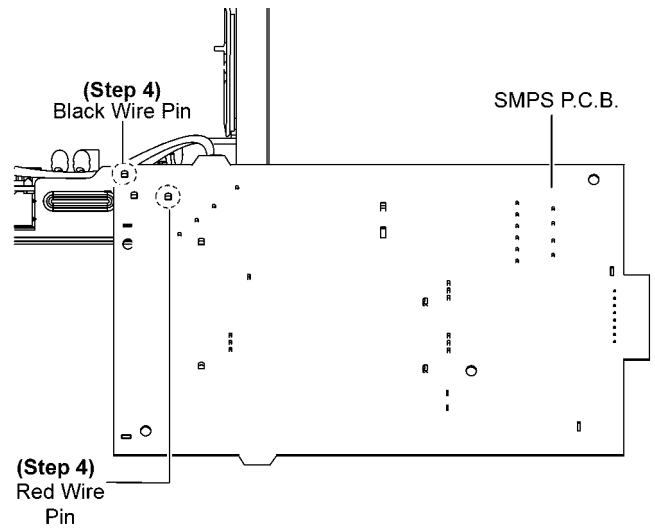
(This illustration shows is for PH only)



Step 4 : Flip the SMPS P.C.B. and desolder the wire's pin.

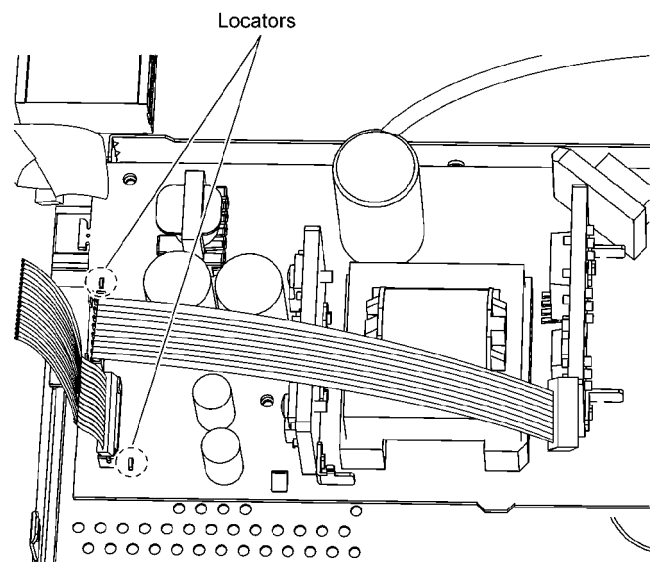
Caution: Red, Black, White, Blue wires.

(This illustration shows is for PN only)



Step 4 : Flip the SMPS P.C.B. and desolder the wire's pin.

Caution: Red, Black wires.

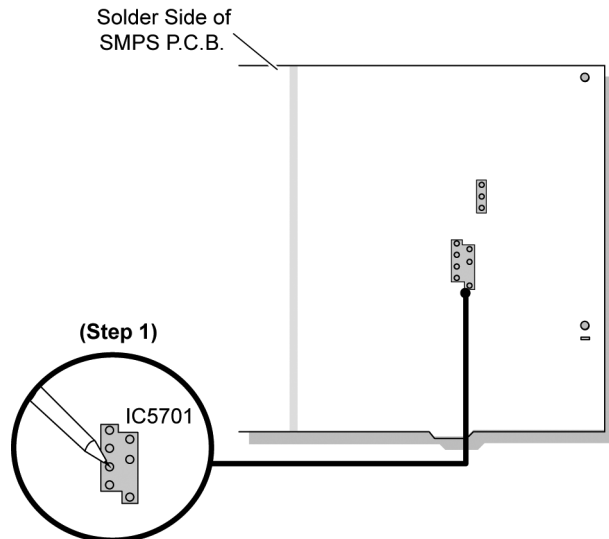


Caution : During assembly, ensure the SMPS P.C.B. is seated properly at the locators.

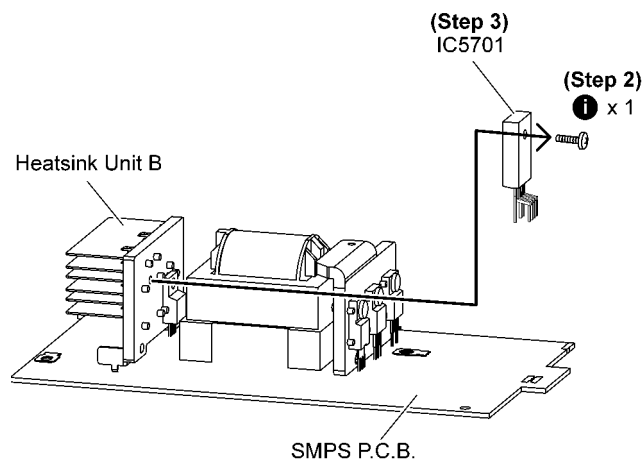
9.20. Replacement of Switching Regulator IC (IC5701)

- Follow (Step 1) to (Step 5) of Item 9.3
- Follow (Step 1) to (Step 6) of Item 9.4
- Follow (Step 1) to (Step 6) of Item 9.14
- Follow (Step 1) to (Step 4) of Item 9.19

9.20.1. Disassembly of Switching Regulator IC (IC5701)



Step 1 : Desolder pins of the Switching Regulator IC (IC5701) on the solder side of SMPS P.C.B..

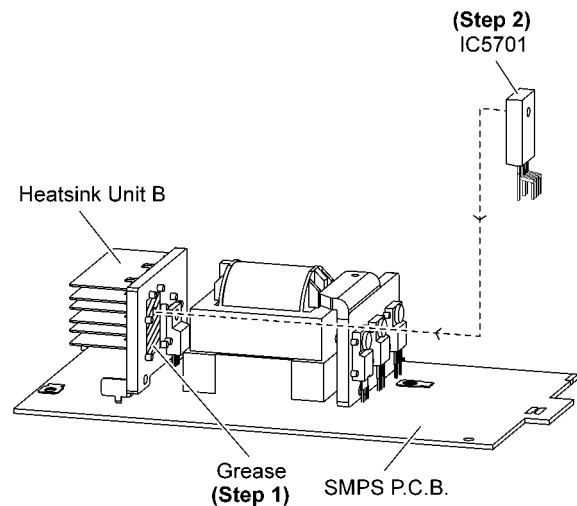


Step 2 : Remove 1 screw from the Switching Regulator IC (IC5701).

Step 3 : Remove the Switching Regulator IC (IC5701).

Caution : During replacement of the part, avoid touching the heatsink, it may lead to injuries.

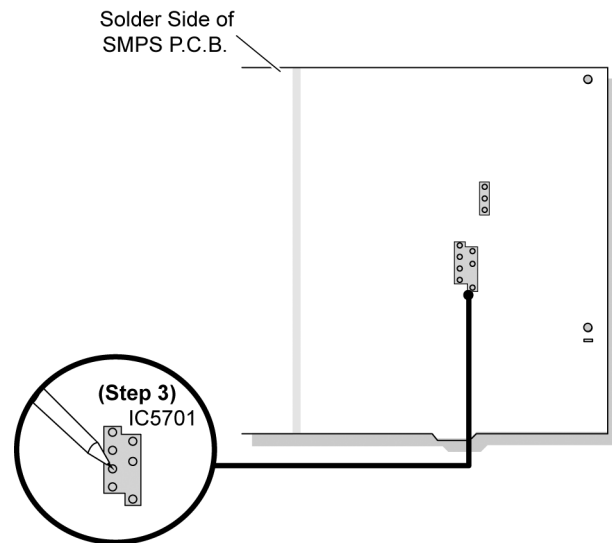
9.20.2. Assembly of Switching Regulator IC (IC5701)



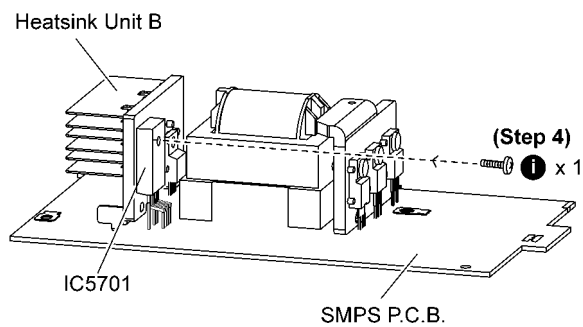
Step 1 : Apply grease to the Heatsink Unit B.

Step 2 : Mount the Switching Regulator IC (IC5701) on to SMPS P.C.B..

Caution : Ensure pins of the Switching Regulator IC (IC5701) are properly seated on SMPS P.C.B..



Step 3 : Solder pins of the Switching Regulator IC (IC5701) on the solder side of SMPS P.C.B..



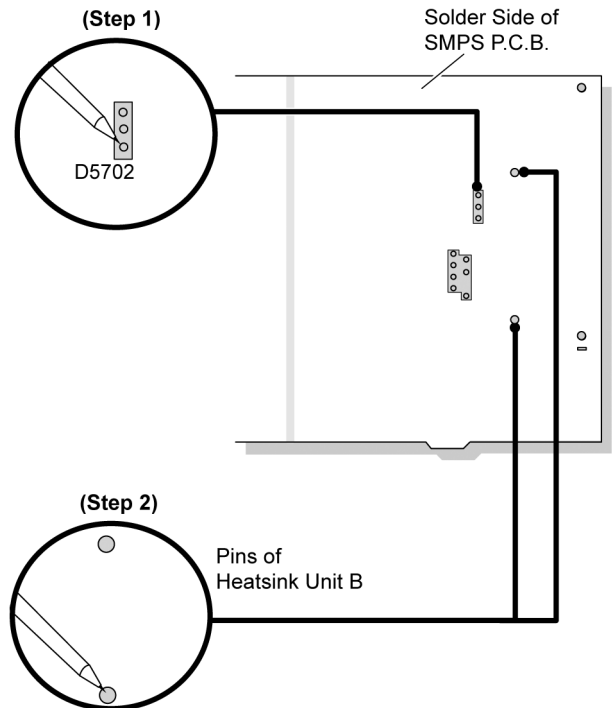
Step 4 : Screw the Switching Regulator IC (IC5701) to the Heatsink Unit B.

Caution : Ensure the Switching Regulator IC (IC5701) is tightly screwed to the Heatsink Unit B.

9.21. Replacement of Rectifier Diode (D5702)

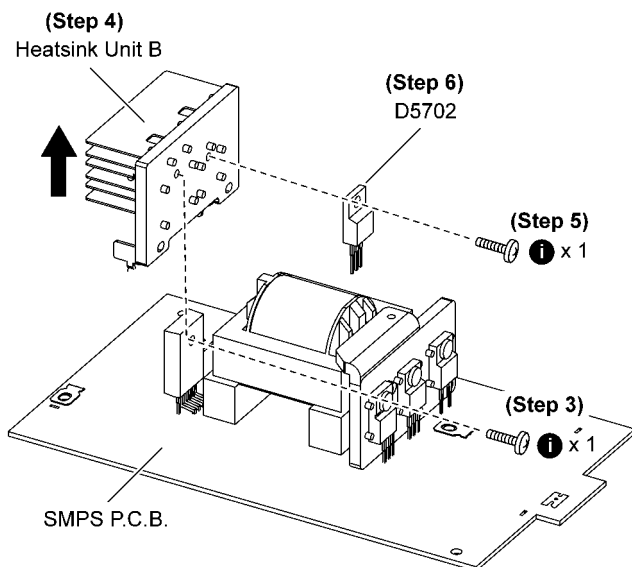
- Follow (Step 1) to (Step 5) of Item 9.3
- Follow (Step 1) to (Step 6) of Item 9.4
- Follow (Step 1) to (Step 6) of Item 9.14
- Follow (Step 1) to (Step 4) of Item 9.19

9.21.1. Disassembly of Rectifier Diode (D5702)



Step 1 : Desolder pins of the Rectifier Diode (D5702) on the solder side of SMPS P.C.B..

Step 2 : Desolder pins of the Heatsink Unit B.



Step 3 : Remove 1 screw.

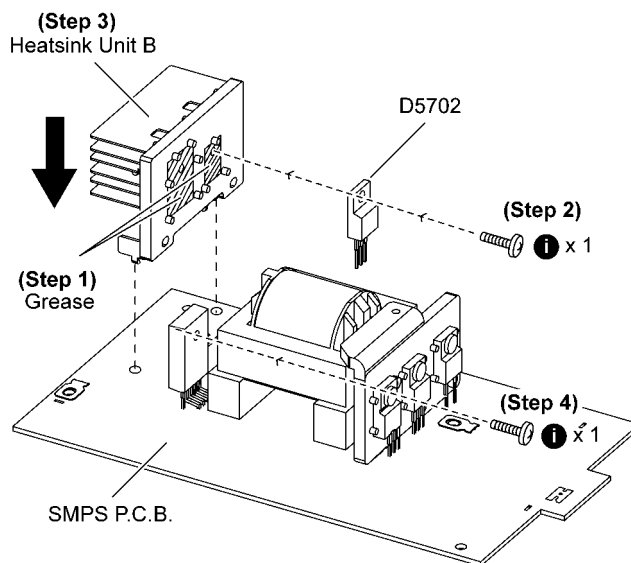
Step 4 : Remove the Heatsink Unit B as arrow shown.

Step 5 : Remove 1 screw.

Step 6 : Remove the Rectifier Diode (D5702) from the Heatsink Unit B.

Caution : During replacement of the part, avoid touching the heatsink, it may lead to injuries.

9.21.2. Assembly of Rectifier Diode (D5702)



Step 1 : Apply grease to the Heatsink Unit B.

Step 2 : Screw the Rectifier Diode (D5702) to the Heatsink Unit B.

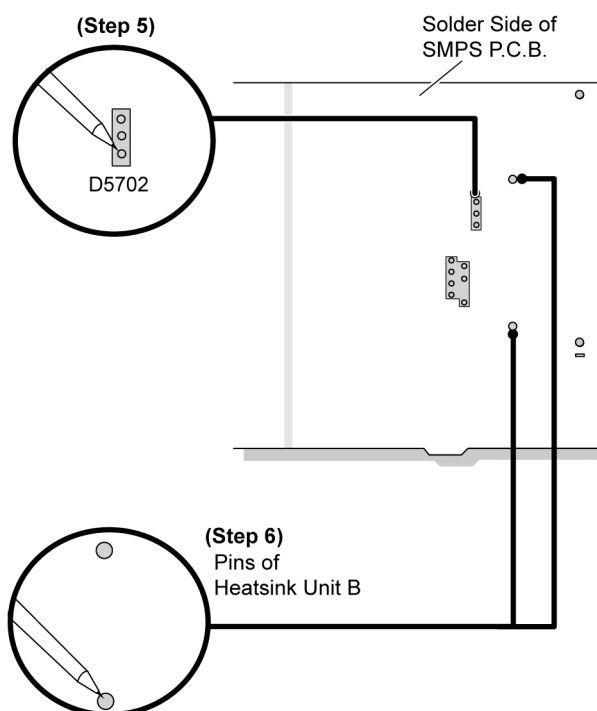
Caution : Ensure the Rectifier Diode (D5702) is well tightened to the Heatsink Unit B.

Step 3 : Mount the Heatsink Unit B & Rectifier Diode (D5702) on to SMPS P.C.B..

Caution : Ensure pins of the Rectifier Diode (D5702) is properly seated on SMPS P.C.B.

Step 4 : Screw the Switch Regulator IC (IC5701) to the Heatsink Unit B.

Caution : Ensure the Heatsink Unit B is properly seated on SMPS P.C.B..



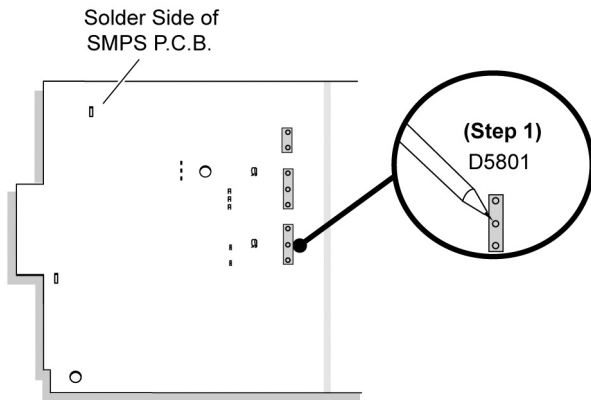
Step 5 : Solder pins of the Rectifier Diode (D5702) on the solder side of SMPS P.C.B..

Step 6 : Solder pins of the Heatsink Unit B on the solder side of SMPS P.C.B..

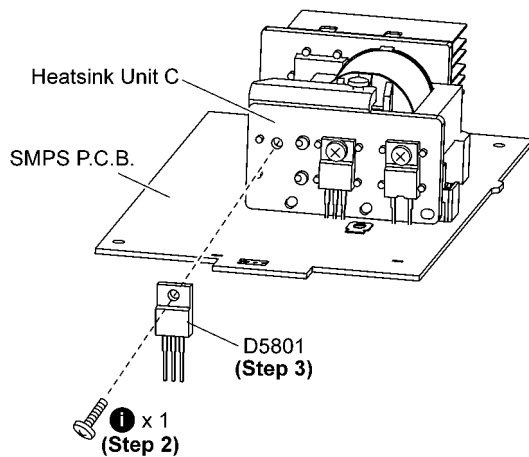
9.22. Replacement of Regulator Diode (D5801)

- Follow (Step 1) to (Step 5) of Item 9.3
- Follow (Step 1) to (Step 6) of Item 9.4
- Follow (Step 1) to (Step 6) of Item 9.14
- Follow (Step 1) to (Step 4) of Item 9.19

9.22.1. Disassembly of Regulator Diode (D5801)



Step 1 : Desolder pins of the Regulator Diode (D5801) on the solder side of SMPS P.C.B..

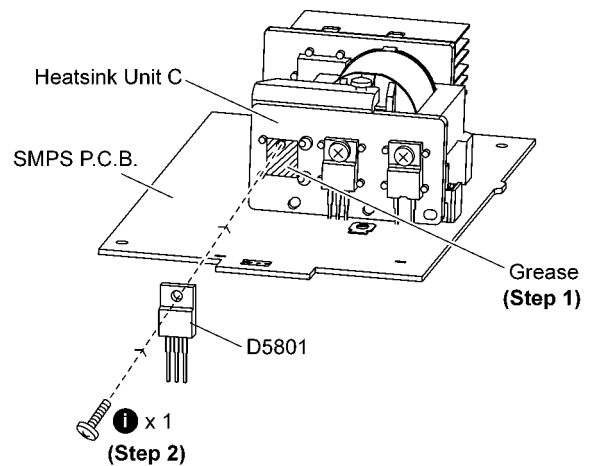


Step 2 : Remove 1 screw.

Step 3 : Remove the Regulator Diode (D5801).

Caution : During replacement of the part, avoid touching the heatsink, it may lead to injuries.

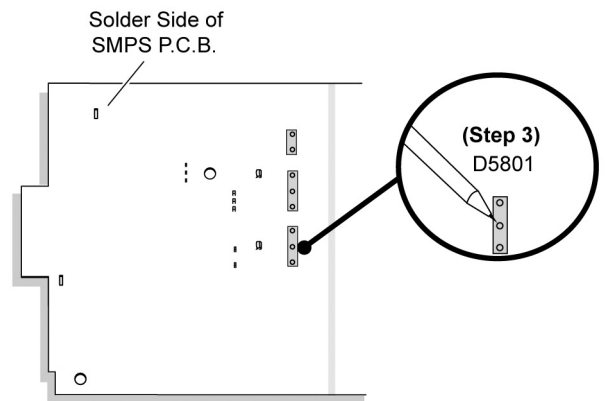
9.22.2. Assembly of Regulator Diode (D5801)



Step 1 : Apply grease to the Heatsink Unit C.

Step 2 : Mount & screw the Regulator Diode (D5801) to the Heatsink Unit C on the SMPS P.C.B..

Caution : Ensure the Regulator Diode (D5801) is well tightened to the Heatsink Unit C.



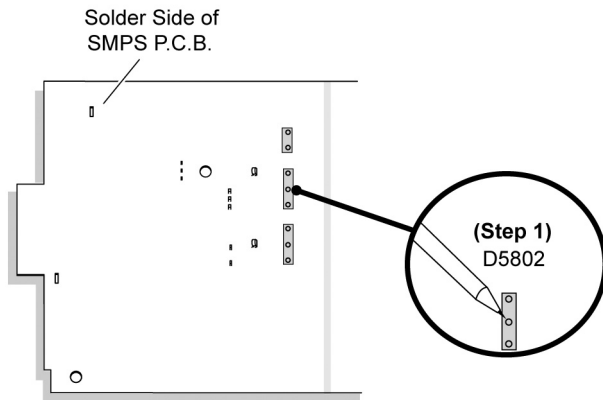
Step 3 : Solder pins of the Regulator Diode (D5801) on the solder side of SMPS P.C.B..

Caution : Ensure pins of the Regulator Diode (D5801) is properly seated and soldered on SMPS P.C.B..

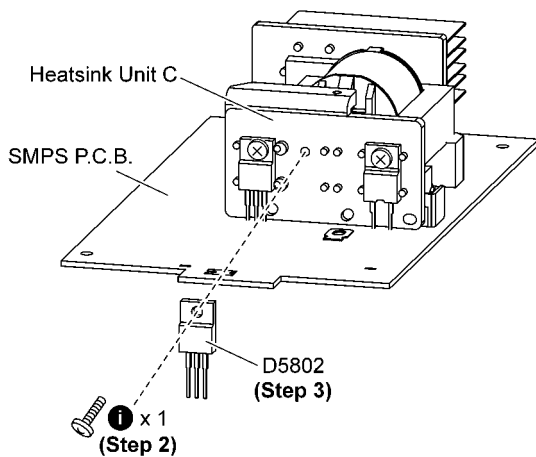
9.23. Replacement of Regulator Diode (D5802)

- Follow (Step 1) to (Step 5) of Item 9.3
- Follow (Step 1) to (Step 6) of Item 9.4
- Follow (Step 1) to (Step 6) of Item 9.14
- Follow (Step 1) to (Step 4) of Item 9.19

9.23.1. Disassembly of Regulator Diode (D5802)



Step 1 : Desolder pins of the Regulator Diode (D5802) on the solder side of SMPS P.C.B..

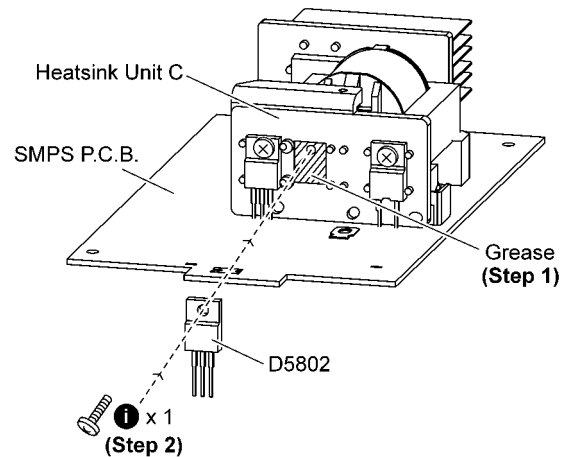


Step 2 : Remove 1 screw.

Step 3 : Remove the Regulator Diode (D5802) from the Heat-sink Unit C.

Caution : During replacement of the part, avoid touching the heatsink, it may lead to injuries.

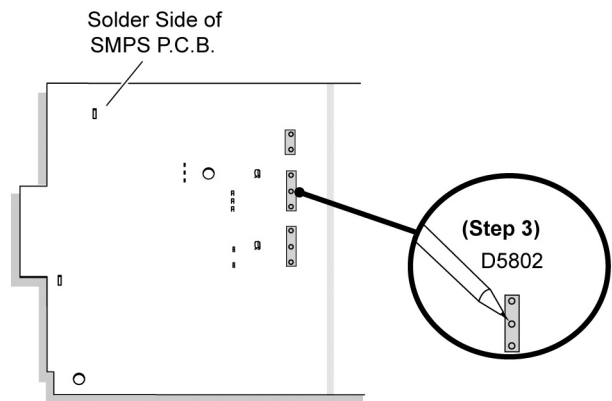
9.23.2. Assembly of Regulator Diode (D5802)



Step 1 : Apply grease to the Heatsink Unit C.

Step 2 : Mount & screw the Regulator Diode (D5802) to the Heatsink Unit C on SMPS P.C.B..

Caution : Ensure the Regulator Diode (D5802) is well tightened to the heatsink unit C.



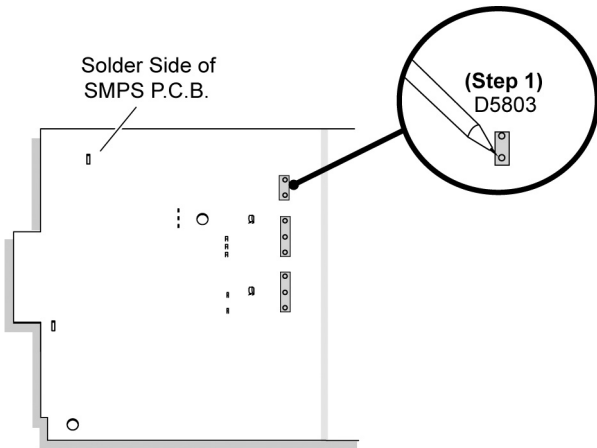
Step 3 : Solder pins of the Regulator Diode (D5802) on the solder side of SMPS P.C.B..

Caution : Ensure pins of the Regulator Diode (D5802) is properly seated and soldered on SMPS P.C.B..

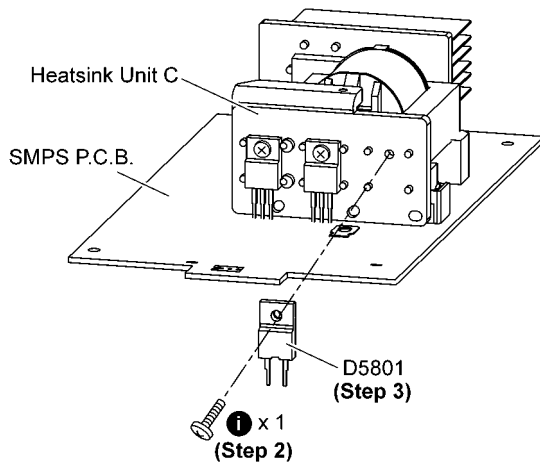
9.24. Replacement of Regulator Diode (D5803)

- Follow (Step 1) to (Step 5) of Item 9.3
- Follow (Step 1) to (Step 6) of Item 9.4
- Follow (Step 1) to (Step 6) of Item 9.14
- Follow (Step 1) to (Step 4) of Item 9.19

9.24.1. Disassembly of Regulator Diode (D5803)



Step 1 : Desolder pins of the Regulator Diode (D5803) on the solder side of SMPS P.C.B..

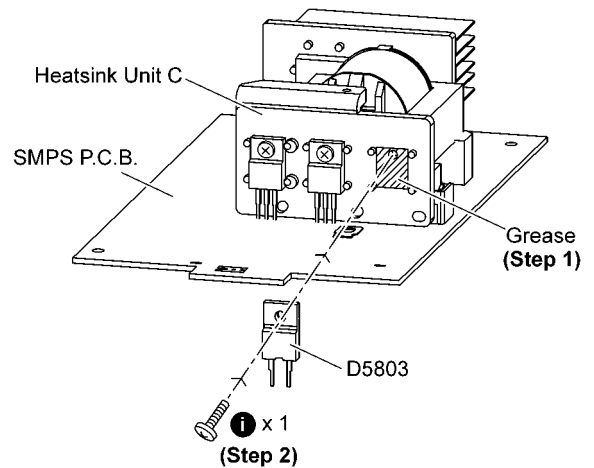


Step 2 : Remove 1 screw.

Step 3 : Remove the Regulator Diode (D5803) from the Heat-sink Unit C.

Caution : During replacement of the part, avoid touching the heatsink, it may lead to injuries.

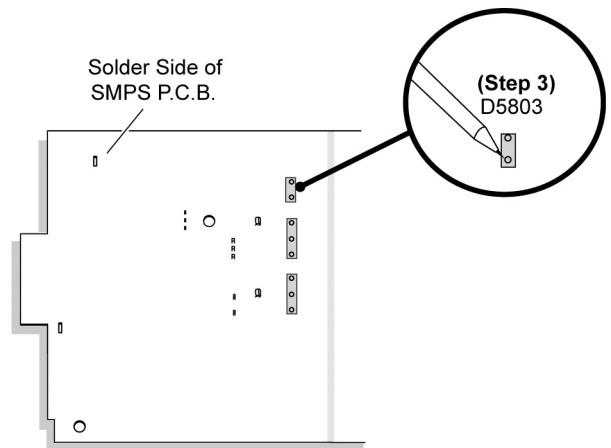
9.24.2. Assembly of Regulator Diode (D5803)



Step 1 : Apply grease to the Heatsink Unit C.

Step 2 : Mount & screw the regulator diode (D5803) to the Heatsink Unit C on SMPS P.C.B..

Caution : Ensure the Regulator Diode (D5803) is well tightened to the Heatsink Unit C.

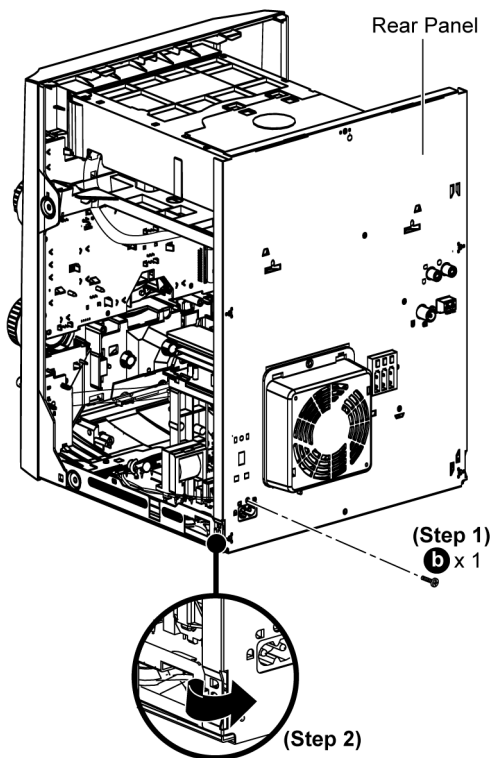


Step 3 : Solder pins of the Regulator Diode (D5803) on the solder side of SMPS P.C.B..

Caution : Ensure pins of the regulator diode (D5803) are properly seated and soldered on SMPS P.C.B..

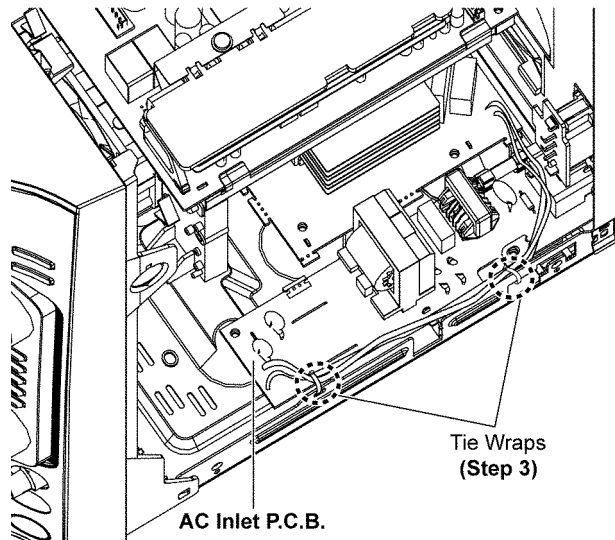
9.25. Disassembly of AC Inlet P.C.B.

- Follow (Step 1) to (Step 5) of Item 9.3



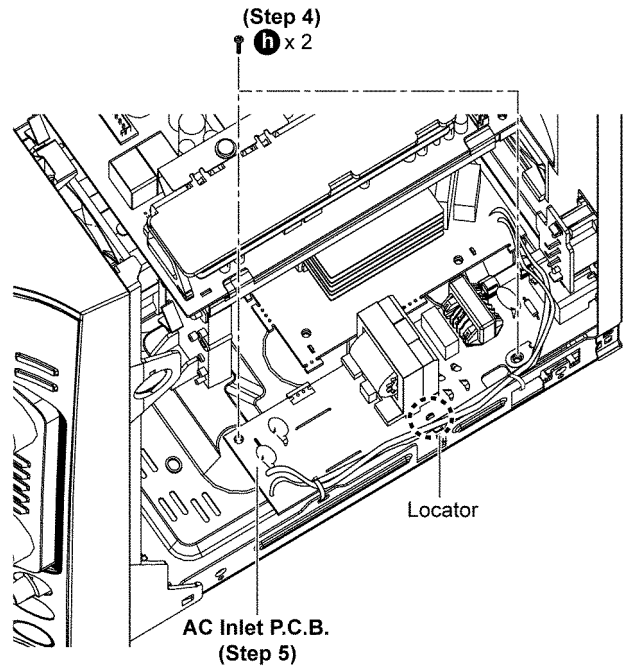
Step 1 : Remove 1 screw.

Step 2 : Release the tab at the Rear Panel as arrow show.



Step 3 : Cut 2 tie wraps.

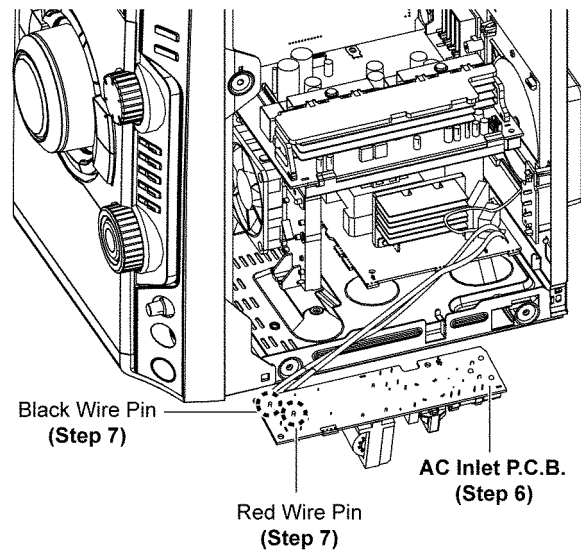
Caution : Remember to tie the red, black, blue wires with the wraps to the bottom chassis as diagram show.



Step 4 : Remove 2 screws on AC Inlet P.C.B..

Step 5 : Lift up AC inlet P.C.B. from bottom chassis.

Caution: During assembling, ensure the AC Inlet P.C.B. is seated properly at the locator, screw 2 screws at AC Inlet P.C.B..



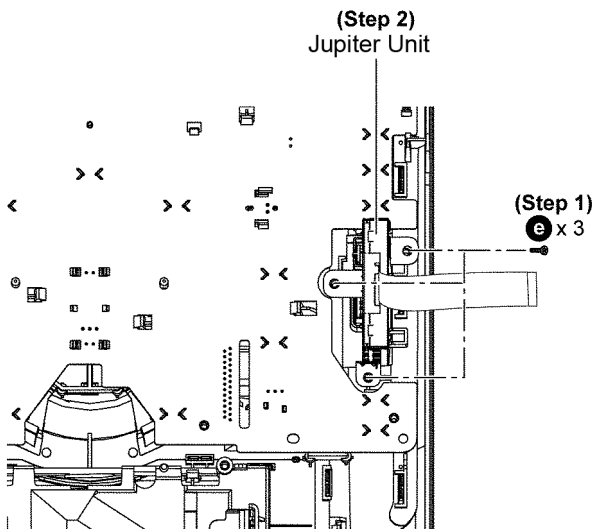
Step 6 : Turn over AC Inlet P.C.B. to the solder side.

Step 7 : Desolder black wire pin & red wire pin on AC Inlet P.C.B..

Step 8 : Remove the AC Inlet P.C.B..

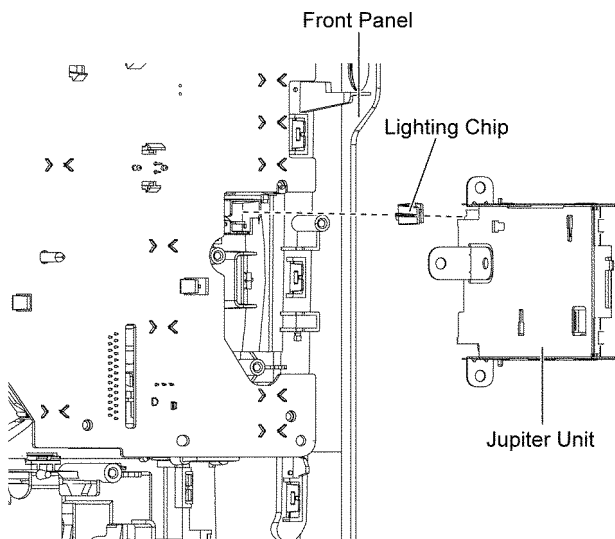
9.26. Disassembly of Jupiter P.C.B.

- Follow (Step 1) to (Step 5) of Item 9.3
- Follow (Step 1) to (Step 8) of Item 9.7

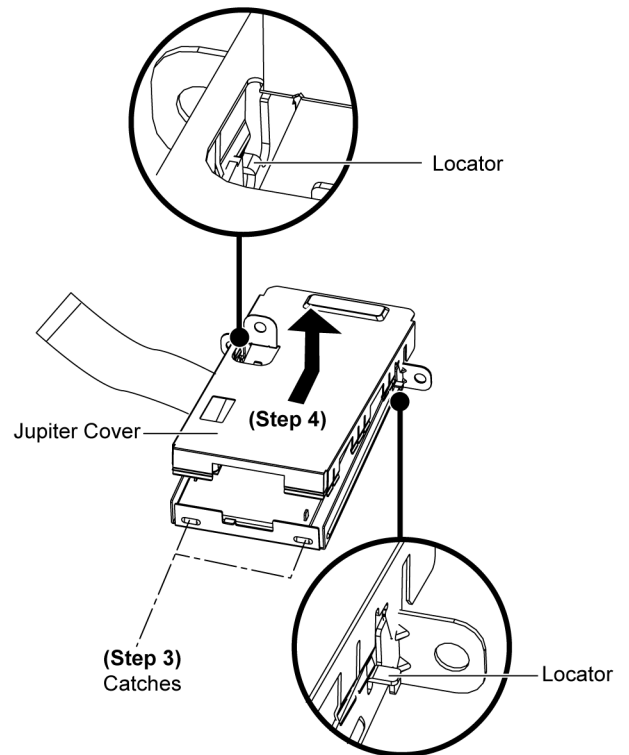


Step 1 : Remove 3 screws.

Step 2 : Remove the Jupiter Unit.

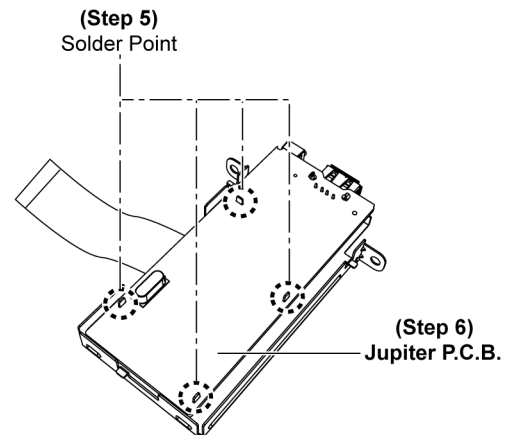


Caution: Do not misplace the Lighting Chip when remove the Jupiter Unit.



Step 3 : Release 2 catches.

Step 4 : Slightly lift up the Jupiter Cover to release from 2 locators.

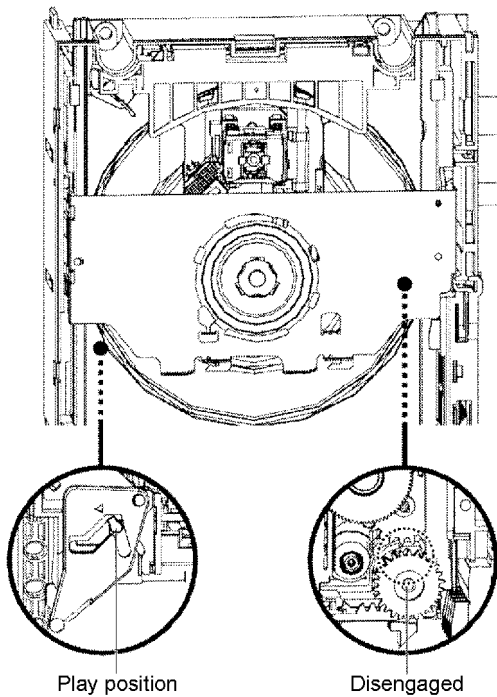


Step 5 : Desolder 4 points.

Step 6 : Remove the Jupiter P.C.B..

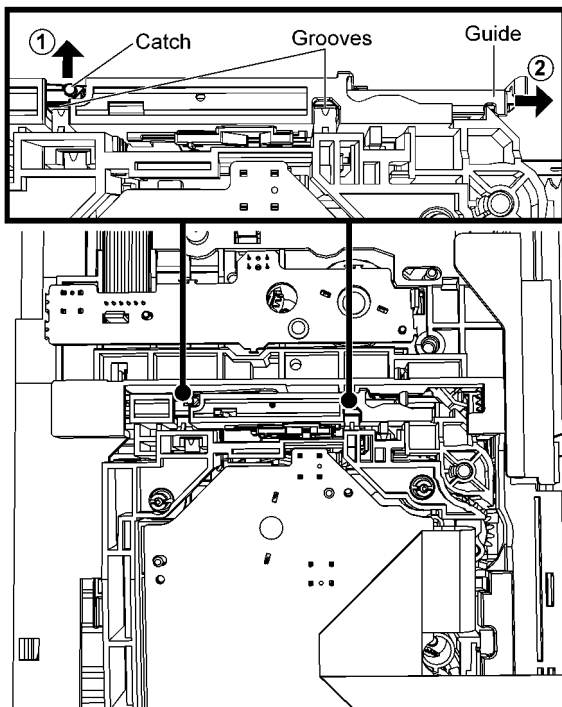
9.27. Replacement of Traverse Unit Assembly

9.27.1. Disassembly of Traverse Unit Assembly

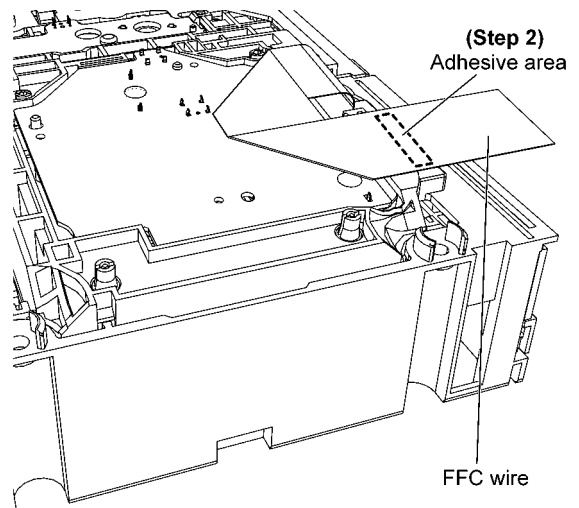


Caution: Disassembly of Traverse Unit Assembly in play position.

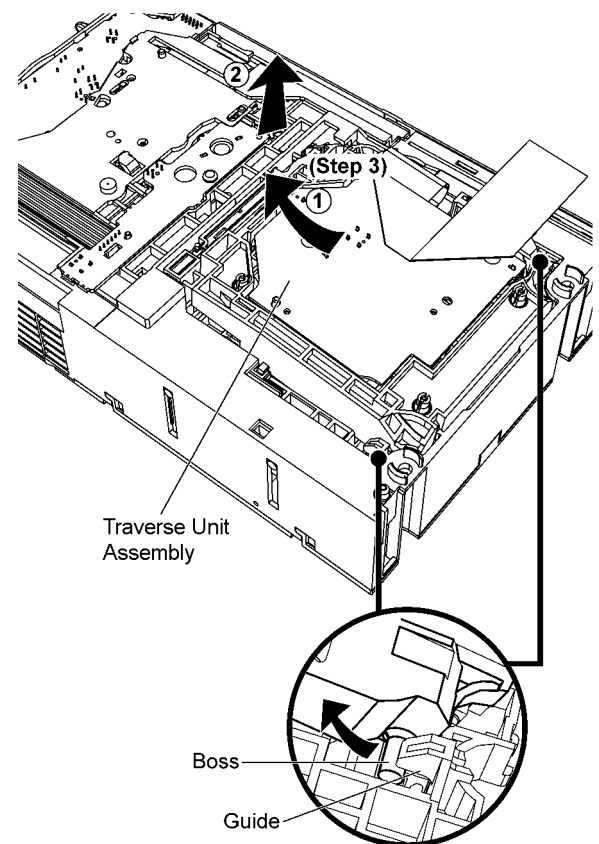
(Step 1)



Step 1 : Release the catch and push the guide as arrows.

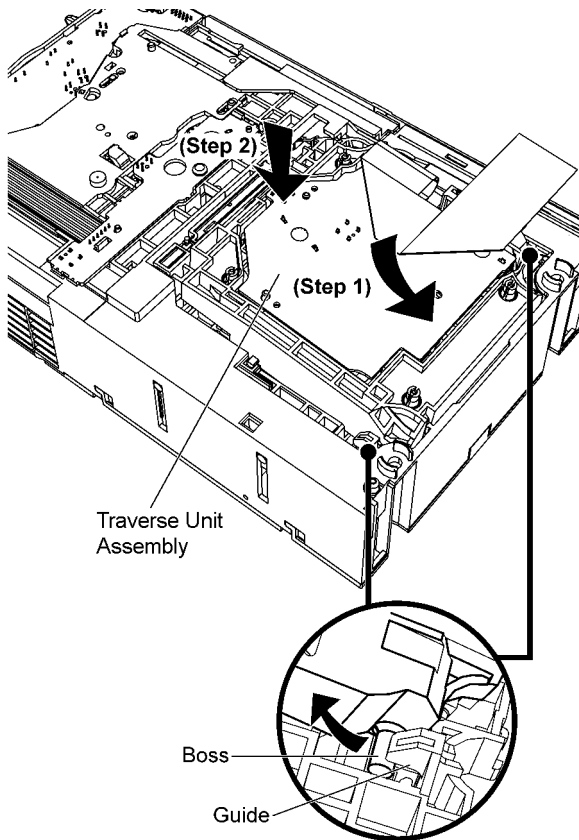


Step 2 : Detach the FFC wires from the adhesive area.



Step 3 : Remove the Traverse Unit Assembly as arrows shown.

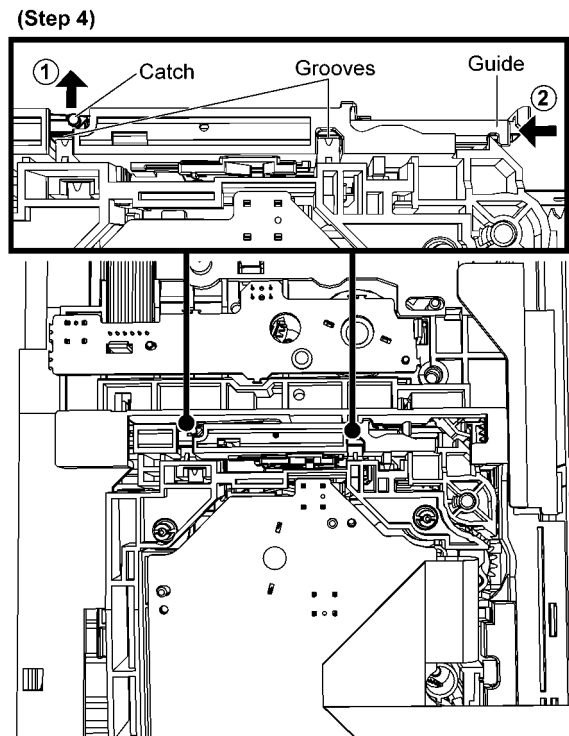
9.27.2. Assembly of Traverse Unit Assembly



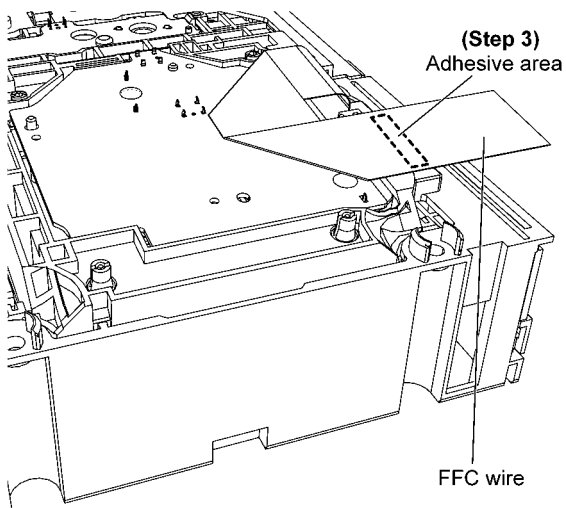
Step 1 : Slot the Traverse Unit Assembly into the guides as arrow shown.

Caution: Ensure the bosses fix exactly onto the guides.

Step 2 : Place down the Traverse Unit Assembly.



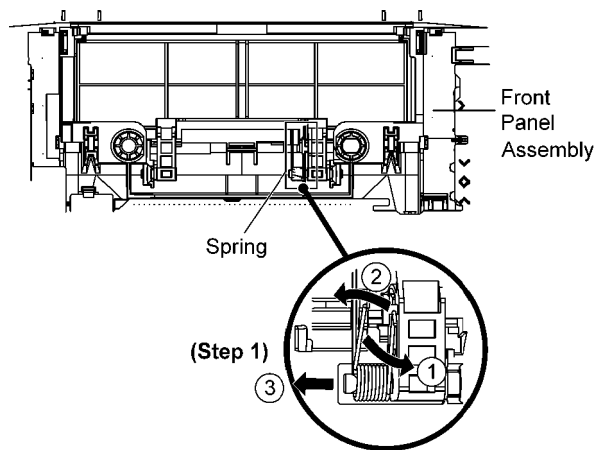
Step 4 : Release the catch and push the guide as arrows shown to close both grooves.



Step 3 : Fix the FFC wires by using the adhesive tape.

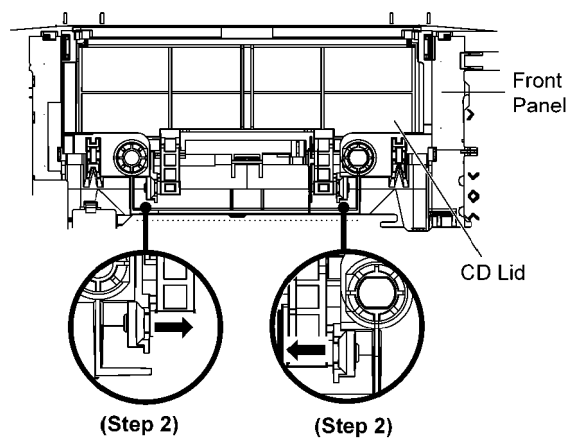
9.28. Disassembly of CD Lid

- Follow (Step 1) to (Step 5) of Item 9.3
- Follow (Step 1) to (Step 8) of Item 9.7



Step 1: Remove the spring as arrow shown in order of sequences (1) to (3).

Caution: During assembling, please ensure that the spring is assembly at right position.



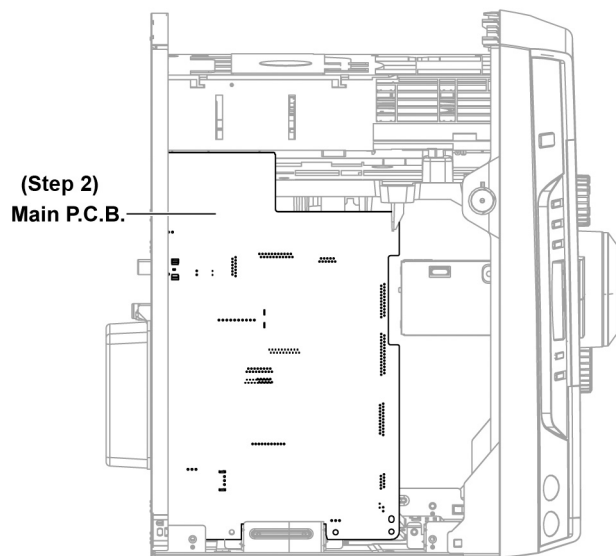
Step 2: Remove CD Lid as arrow shown.

10 Service Position

Note: For description of the disassembly procedures, see the Section 9.

10.1. Checking and Repairing of Main P.C.B.

Step 1 : Remove Top Cabinet.



Step 2 : Main P.C.B. can be checked as above position.

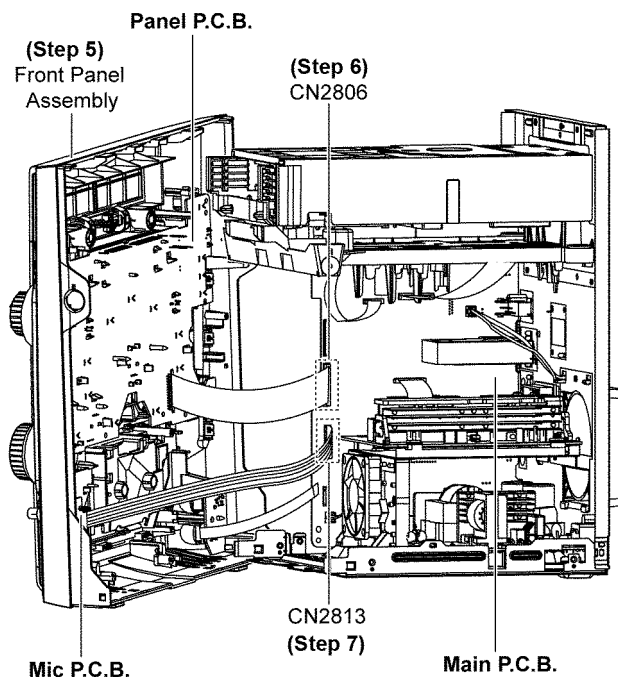
10.2. Checking and Repairing of Panel P.C.B., MIC P.C.B., Jupiter P.C.B. and MPort/Headphone P.C.B.

Step 1 : Remove Top Cabinet.

Step 2 : Remove Front Panel Assembly.

Step 3 : Remove MPort/Headphone P.C.B..

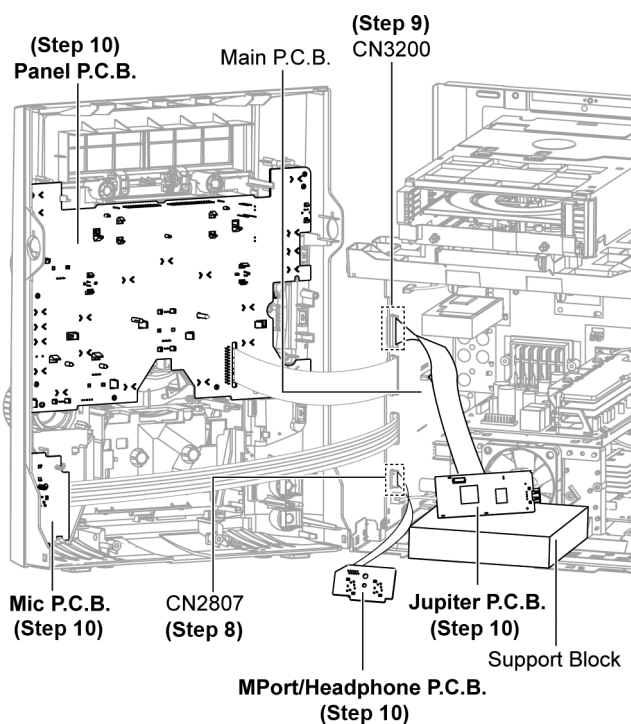
Step 4 : Remove Jupiter P.C.B..



Step 5 : Position Front Panel Assembly as diagram shown.

Step 6 : Connect 27P FFC at the connector (CN2806) on Main P.C.B..

Step 7 : Connect 5P wire at the connector (CN2813) on Main P.C.B..



Step 8 : Connect 10P FFC at the connector (CN2807) on Main P.C.B..

Step 9 : Connect 30P FFC at the connector (CN3200) on Main P.C.B..

Step 10 : Check and repair Panel P.C.B., Mic P.C.B., Jupiter P.C.B. and MPort/Headphone P.C.B..

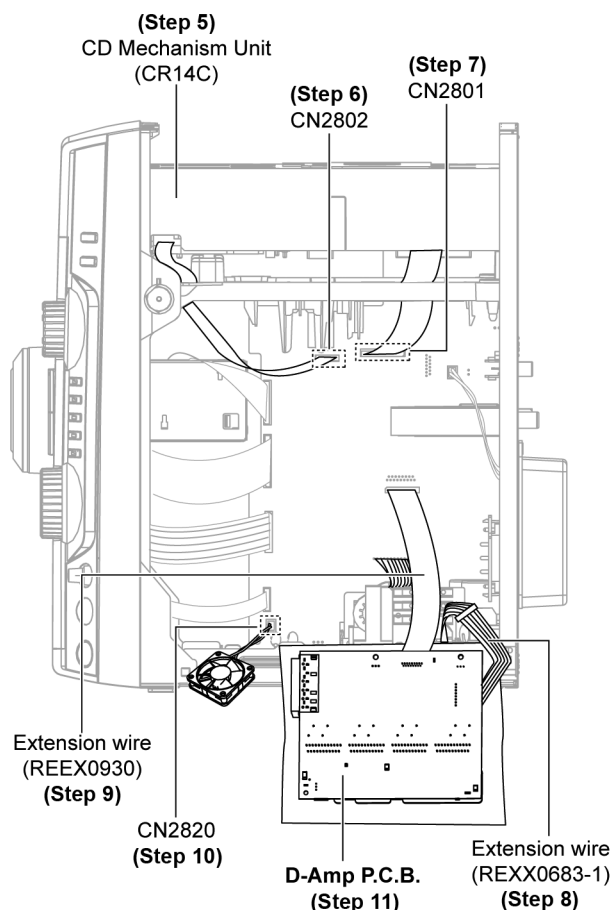
10.3. Checking and Repairing of D-Amp P.C.B.

Step 1 : Remove Top Cabinet.

Step 2 : Remove CD Mechanism Unit (CR14C).

Step 3 : Remove D-Amp P.C.B..

Step 4 : Remove Fan Unit.



Step 5 : Position Mechanism Unit (CR14C) according to the diagram show.

Step 6 : Connect 11P FFC at the connector (CN2802) on Main P.C.B..

Step 7 : Connect 25P FFC at the connector (CN2801) on Main P.C.B..

Step 8 : Extend the wire with extension wire (REXX0683-1) (8P wire from H5801 to CN5500).

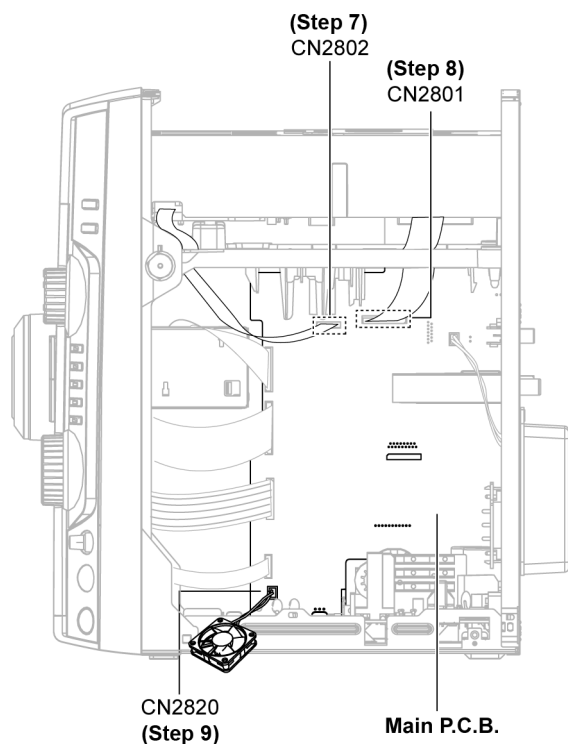
Step 9 : Connect extension FFC (REEX0930) (17P FFC from CN5050 to CN5050).

Step 10 : Connect 2P wire at the connector (CN2820) on Main P.C.B..

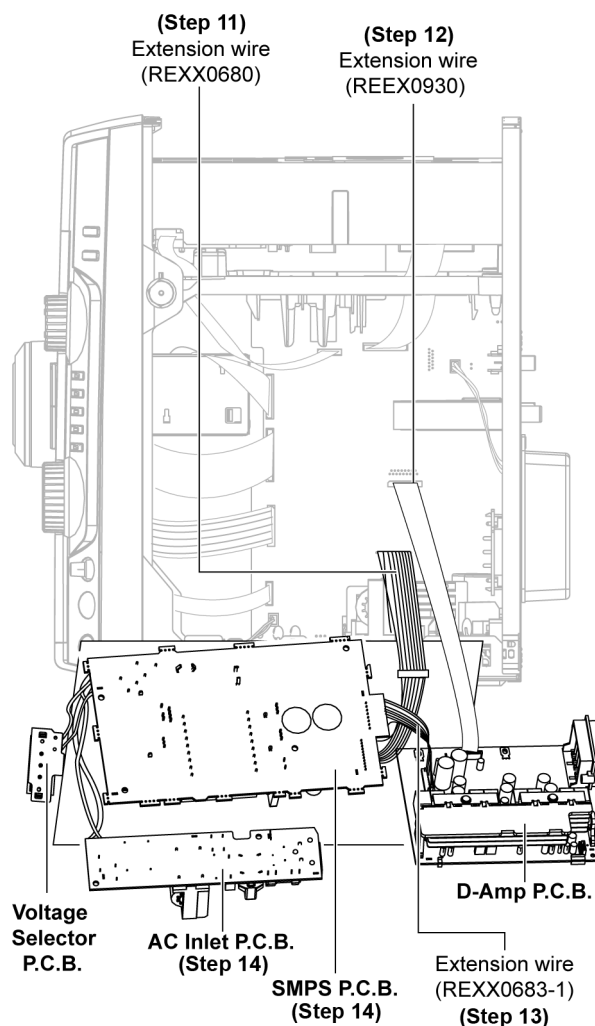
Step 11 : Check and repair D-Amp P.C.B..

10.4. Checking and Repairing of SMPS P.C.B. and AC Inlet P.C.B.

- Step 1 :** Remove Top Cabinet.
Step 2 : Remove CD Mechanism Unit (CR14C).
Step 3 : Remove D-Amp P.C.B..
Step 4 : Remove Fan Unit.
Step 5 : Remove AC Inlet P.C.B..
Step 6 : Remove Voltage Selector P.C.B..



- Step 7 :** Connect 11P FFC at the connector (CN2802) on Main P.C.B..
Step 8 : Connect 25P FFC at the connector (CN2801) on Main P.C.B..
Step 9 : Connect 2P wire at the connector (CN2820) on Main P.C.B..



Step 10 : Position SMPS P.C.B., AC Inlet P.C.B. & Voltage Selector as diagram show.

Step 11 : Extend the wire with extension wire (REXX0680) (11P wire from CN2701 to CN5802).

Step 12 : Connect extension FFC (REEX0930) (17P FFC from CN5050 to CN5050).

Step 13 : Extend the wire with extension wire (REXX0683-1) (8P wire from H5801 to CN5500).

Step 14 : Check and repair SMPS and AC Inlet P.C.B..

11 Voltage & Waveform Chart

Note:

- Indication Voltage Values are in standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard.
Therefore, there may exist some errors in voltage values, depending on the internal impedance of the DC circuit tester.
- Circuit voltage and waveform described herein shall be regarded as reference information when probing defect point because it may differ from actual measuring value due to difference of Measuring instrument and its measuring condition and product itself.

11.1. CD Servo P.C.B.

Ref No.	IC7001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	1.5	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	1.6	1.6	0.0
STANDBY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Ref No.	IC7001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	0.0	0.0	1.8	1.8	2.0	0.0	3.3	1.5	2.4	3.3	0.0	0.3	0.3	1.8	0.0	2.0	1.8	1.7	0.0	0.0
STANDBY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Ref No.	IC7001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD PLAY	0.0	2.5	2.0	0.0	0.0	0.0	0.0	1.1	0.0	1.2	0.0	0.0	0.0	1.4	1.5	1.5	0.0	3.0	1.5	0.0
STANDBY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Ref No.	IC7001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD PLAY	1.5	3.3	0.0	0.6	0.0	0.0	3.0	3.0	3.2	1.3	0.0	0.0	1.6	2.8	3.3	0.0	0.0	0.0	0.0	0.0
STANDBY	1.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0

Ref No.	IC7002																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	1.6	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	7.5	1.7	3.2	3.2	3.2	2.8	3.8	3.2	3.2	7.5	0.0
STANDBY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Ref No.	IC7002																			
MODE	21	22	23	24	25	26	27	28	29	30										
CD PLAY	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	0.0	0.0										
STANDBY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0										

Ref No.	Q7601																			
MODE	E	C	B																	
CD PLAY	3.1	2.0	2.4																	
STANDBY	0.0	0.1	0.0																	

SA-AK780/785 CD SERVO P.C.B.

11.2. Main P.C.B. (1/3)

Ref No.	IC2121																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	4.7	4.7	4.7	0.0	4.7	4.7	4.7	9												
STANDBY	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0												
Ref No.	IC2200																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	0.0	0.0	0.0	0.0	0.0	2.7	0.0	3.3												
STANDBY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3												
Ref No.	IC2701																			
MODE	1	2	3	4	5															
CD PLAY	16.8	5.0	0.0	1.0	3.0															
STANDBY	0.3	0.3	0.0	0.0	0.0															
Ref No.	IC2741																			
MODE	1	2	3	4	5															
CD PLAY	5.0	0.0	1.3	3.3	5.0															
STANDBY	5.0	0.0	1.4	3.3	5.0															
Ref No.	IC2761																			
MODE	1	2	3																	
CD PLAY	4.0	5.0	3.5																	
STANDBY	0.3	0.0	0.0																	
Ref No.	IC2801																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	3.3	3.3	3.3	3.3	0.0	0.0	0.0	0.0	0.0	1.5	0.0	1.5	1.5	0.0	1.5	1.7	4	1.8	3	0
STANDBY	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	1.5	1.5	0.0	1.5	1.7	4	1.8	3	0
Ref No.	IC2801																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	2.2	3.3	0.0	1.8	0.0	0.0	0.0
STANDBY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0	2	0.0	0.0	0.0
Ref No.	IC2801																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD PLAY	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	3.3	3.3	3.3	3.3	0.0	3.3	3.3	3.3	0.0	0.0	0.0	0.0
STANDBY	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	0.0	0.0	3.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ref No.	IC2801																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD PLAY	0.0	3.3	0.0	3.3	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0	1.5	0.0	0.0	0.0	0.0	3.3	0.0	0.4
STANDBY	0.0	3.3	0.0	0.0	0.0	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ref No.	IC2801																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
CD PLAY	0.0	0.0	0.0	0.0	1.8	3.3	3.3	3.3	3.3	3.0	0.0	3.3	0.0	3.3	2.3	0.0	3.3	3.3	3.3	3.3
STANDBY	0.0	0.0	0.0	0.0	1.8	3.3	0.0	0.0	3.3	3.0	0.0	0.0	0.0	3.3	0.0	0.0	3.3	3.3	3.3	3.3

SA-AK780/785 MAIN P.C.B.

11.3. Main P.C.B. (2/3)

Ref No.	IC2803																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0.0	4.7	4.7	4.7	4.7	0.0	0.0	0.0	0.0	1.2	4.7	4.7	4.7	4.7	4.7	4.7	4.7	0.0	3.3	3.3
STANDBY	0.0	0.5	0.0	0.0	0.5	0.0	0.5	0.0	0.0	0.0	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0
Ref No.	IC2803																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	9.0	4.7	4.7	4.7	0.8	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	0.0	4.7
STANDBY	9.0	0.0	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.5
Ref No.	IC2803																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52								
CD PLAY	0.0	4.7	0.0	4.7	0.0	4.7	4.7	0.0	0.0	4.7	0.0	4.7								
STANDBY	0.0	0.5	0.0	0.3	0.5	0.0	0.0	0.0	0.0	0.3	0.0	0.3								
Ref No.	IC2804																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	0.0	0.0	0.0	-9.0	0.0	0.0	0.0	9.0												
STANDBY	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0												
Ref No.	IC2810																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	0.7	0.0	0.6	-9.0	0.0	0.0	0.0	9.0												
STANDBY	0.3	0.3	0.0	0.3	0.0	0.0	0.0	0.0												
Ref No.	Q2310																			
MODE	1	2	3	4	5	6														
CD PLAY	0.0	-7.5	0.0	0.0	-7.5	0.0														
STANDBY	0.0	0.6	0.0	0.0	0.6	0.0														
Ref No.	Q2410																			
MODE	1	2	3	4	5	6														
CD PLAY	0.0	-7.5	0.0	0.0	-7.5	0.0														
STANDBY	0.0	0.6	0.0	0.0	0.6	0.0														
Ref No.	Q2510																			
MODE	1	2	3	4	5	6														
CD PLAY	0.0	-7.5	0.0	0.0	-7.5	0.0														
STANDBY	0.0	0.6	0.0	0.0	0.6	0.0														
Ref No.	Q2320 Q2371 Q2372 Q2373 Q2374																			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	0.0	0.0	0.0		0.0	0.0	-3.0		0.0	0.0	-7.5		0.0	0.0	-3.0		0.0	-3.0	0.0	
STANDBY	0.0	0.0	0.0		0.0	0.0	-3.0		0.0	0.0	0.6		0.0	0.0	-3.0		0.0	-3.0	0.0	
Ref No.	Q2375 Q2501 Q2550 Q2571 Q2708																			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	0.0	-3.0	0.0		0.7	5.7	0.8		0.0	0.0	-3.0		0.0	-3.0	0.0		0.0	-9.0	-0.6	
STANDBY	0.0	-3.0	0.0		0.0	0.0	0.0		0.0	0.0	-3.0		0.0	-3.0	0.0		0.0	0.0	0.0	
SA-AK780/785 MAIN P.C.B																				

SA-AK780/785 MAIN P.C.B.

11.4. Main P.C.B. (3/3)

Ref No.	Q2711				Q2735				Q2743				Q2745				Q2751			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	2.5	5.0	4.0		8.5	10.2	9.0		3.3	3.3	2.6		0.0	0.0	3.3		9.0	16.8	10.0	
STANDBY	0.8	0.3	0.3		0.0	0.3	0.3		3.3	0.0	3.3		0.0	3.3	0.0		0.0	0.3	0.3	
Ref No.	Q2761				Q2771				Q2772				Q2812				Q2900			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	-9.0	-12.0	-10.0		0.0	3.3	0.3		0.0	3.3	0.3		0.0	3.3	0.0		0.0	16.8	-0.5	
STANDBY	0.3	0.0	0.0		0.7	0.0	0.0		0.0	0.7	0.0		0.0	3.3	0.0		0.0	0.0	0.0	
Ref No.	Q2942				Q2943				Q2947				Q2948				Q2949			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	11.8	7.8	11.8		0.0	11.8	0.5		0.0	0.0	0.5		0.0	0.0	0.3		0.0	3.3	0.0	
STANDBY	0.0	0.0	0.0		0.0	0.5	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	3.3	0.0	
Ref No.	Q2961				Q2967				Q3115				Q3116				Q3301			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	11.8	11.8	11.1		0.0	3.3	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	1.6	0.6	
STANDBY	0.0	0.0	0.0		0.0	3.3	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	1.8	0.5	
Ref No.	Q2317																			
MODE	E	C	B																	
CD PLAY	0.0	-7.5	0.0																	
STANDBY	2.0	2.0	0.0																	

SA-AK780/785 MAIN P.C.B.

11.5. Panel P.C.B.

Ref No.	IC6601																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	3.3	3.3	3.3	3.3	1.9	1.6	0.0	3.3	3.3	3.3	0.0	0.0	3.3	-14.5	-16.8	-22.2	-22.2	-22.2	-22.2	-20.2
STANDBY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ref No.	IC6601																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	16.8	22.2	22.2	20.4	16.8	20.2	20.3	24.0	20.2	0.0	24.7	22.2	22.2	22.2	22.2	22.2	22.4	22.4	22.4	22.4
STANDBY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ref No.	IC6601																			
MODE	41	42	43	44																
CD PLAY	22.4	22.4	3.3	0.0																
STANDBY	0.0	0.0	0.0	0.0																
Ref No.	Q6511				Q6512				Q6600				Q6601				Q6602			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	0.0	0.0	3.0		0.0	0.0	3.0		0.0	0.0	3.3		0.0	0.0	3.3		0.0	0.0	3.3	
STANDBY	0.0	0.0	3.0		0.0	0.0	3.0		0.0	2.4	0.0		0.0	2.4	0.0		0.0	2.4	0.0	
Ref No.	Q6603																			
MODE	E	C	B																	
CD PLAY	0.0	0.0	3.3																	
STANDBY	0.0	2.4	0.0																	

SA-AK780/785 PANEL P.C.B.

11.6. D-Amp P.C.B.

Ref No. MODE	IC5000																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	2.5	0	0.0	29.0	0	-29.0	-20.6	29.3	8.9	0.0	-29.3	-19.2	-29.3	-0.1	8.9	29.3	-29.0	-29.0	0.0	29.0
STANDBY	2.5	0	0.0	29.0	0	-29.0	-20.6	29.3	8.9	0.1	-29.3	-19.2	-29.3	-0.1	8.9	29.3	-29.0	-29.0	0.0	29.0
Ref No. MODE	IC5000																			
	21	22	23																	
CD PLAY	0	0	2.5																	
STANDBY	0	0	2.5																	
Ref No. MODE	IC5200																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	2.5	0	0.0	29.0	0	-29.0	-20.6	29.3	8.9	0.0	-29.3	-19.2	-29.3	-0.1	8.9	29.3	-29.0	-29.0	0.0	29.0
STANDBY	2.5	0	0.0	29.0	0	-29.0	-20.6	29.3	8.9	0.1	-29.3	-19.2	-29.3	-0.1	8.9	29.3	-29.0	-29.0	0.0	29.0
Ref No. MODE	IC5200																			
	21	22	23																	
CD PLAY	0	0	2.5																	
STANDBY	0	0	2.5																	
Ref No. MODE	IC5400																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	2.5	0	0.0	29.0	0	-29.0	-20.6	29.3	8.9	0.0	-29.3	-19.2	-29.3	-0.1	8.9	29.3	-29.0	-29.0	0.0	29.0
STANDBY	2.5	0	0.0	29.0	0	-29.0	-20.6	29.3	8.9	0.1	-29.3	-19.2	-29.3	-0.1	8.9	29.3	-29.0	-29.0	0.0	29.0
Ref No. MODE	IC5400																			
	21	22	23																	
CD PLAY	0	0	2.5																	
STANDBY	0	0	2.5																	
Ref No. MODE	IC5500																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
CD PLAY	0	5.2	4.9	0	2.7	2.2	0	2.5	2.6	2.6	2.5	2.5	2.6	5.2						
STANDBY	0	5.2	4.9	0	2.7	2.2	0	2.5	2.6	2.6	2.5	2.5	2.6	5.2						
Ref No. MODE	Q5101				Q5102				Q5601				Q5603				Q5604			
	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	0	5.2	3.0		0	5.1	3.0		0	0	0.7		5.2	5.2	4.5		0	0	0.7	
STANDBY	0	5.2	3.0		0	5.2	3.0		0	0	0.7		5.2	5.2	4.5		0	0	0.7	

SA-AK780/785 D-AMP P.C.B.

11.7. Jupiter P.C.B. (1/2)

Ref No.	IC503																			
MODE	1	2	3	4	5															
CD PLAY	5.0	0.0	3.3	3.3	0.5															
STANDBY	5.0	0.0	0.7	0.7	0.5															
Ref No.	IC551																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
CD PLAY	2.6	2.6	0.0	2.6	0.0	5.2	3.3	0.0	1.2	1.6	1.6	1.6	3.3	3.3	0.0	0.0				
STANDBY	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0				
Ref No.	IC552																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
CD PLAY	1.6	1.6	0.0	1.6	3.3	0.0	0.0	5.1	5.1	2.6	2.6	2.6	0.0	5.2	0.0	5.2				
STANDBY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.5	0.2	0.0	0.1	0.0	0.1				
Ref No.	IC701																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3	0.0	3.3	0.1	0.0	0.0	0.0	0.0	0.0
STANDBY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Ref No.	IC701																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	0.0	0.0	0.0	0.0	0.0	3.3	0.0	3.3	3.2	0.1	3.2	0.1	3.3	0.1	3.2	0.1	3.3	3.3	0.1	3.3
STANDBY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.1	3.3	0.0	0.1	0.0
Ref No.	IC701																			
MODE	41	42	43	44	45	46	47	48												
CD PLAY	0.1	3.3	0.1	3.3	0.0	0.0	0.0	0.0												
STANDBY	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0												
Ref No.	IC751																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	3.3	0.1	3.3	0.1	0.1	0.0	0.1	1.1	3.3	0.2	1.2	0.0	0.1	3.3	3.2	3.3	3.3	0.0	3.3	0.0
STANDBY	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Ref No.	IC751																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	3.1	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	1.5	3.3	0.0
STANDBY	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ref No.	IC751																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54						
CD PLAY	0.0	0.0	3.3	3.3	0.0	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0						
STANDBY	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0						
Ref No.	IC801																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	1.5
STANDBY	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Ref No.	IC801																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	1.2	0.0	0.0	3.3	3.3	3.3	3.3	0.0	3.3	3.3	3.3	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0
STANDBY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0

SA-AK780/785 JUPITER P.C.B.

11.8. Jupiter P.C.B. (2/2)

Ref No. MODE	IC801																			
	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD PLAY	0.0	0.0	1.2	3.3	0.0	3.3	3.3	0.0	0.0	3.3	0.0	3.3	0.0	3.3	3.3	0.1	0.0	3.3	0.0	0.0
STANDBY	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.1	0.0
Ref No. MODE	IC801																			
	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD PLAY	1.5	1.6	1.6	0.0	0.0	3.2	0.0	3.3	3.3	3.3	3.3	3.3	1.2	3.3	3.3	3.3	3.3	3.3	3.3	0.0
STANDBY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ref No. MODE	IC801																			
	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
CD PLAY	3.3	3.3	3.2	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	1.2	1.2	0.0	0.0
STANDBY	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Ref No. MODE	IC801																			
	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
CD PLAY	3.3	3.3	1.2	0.0	0.0	1.7	1.6	1.2	0.0	0.1	0.1	0.0	3.3	0.0	1.6	0.0	1.6	0.0	1.6	1.2
STANDBY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ref No. MODE	IC801																			
	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140
CD PLAY	1.2	0.0	0.0	0.0	0.0	0.0	3.3	3.3	3.3	3.3	0.0	3.3	3.2	3.3	0.0	3.3	0.0	0.0	0.0	0.0
STANDBY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Ref No. MODE	IC801																			
	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160
CD PLAY	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	3.3	3.3	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STANDBY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ref No. MODE	IC801																			
	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180
CD PLAY	0.0	0.0	0.0	0.0	0.0	3.3	1.2	0.0	0.0	0.0	0.0	0.0	3.3	3.2	3.2	3.2	3.2	3.3	0.0	0.0
STANDBY	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.1
Ref No. MODE	IC801																			
	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200
CD PLAY	3.2	3.2	3.2	1.2	3.2	3.2	3.2	3.2	3.3	0.0	0.0	3.2	3.2	3.2	3.2	3.2	3.2	0.0	0.0	3.3
STANDBY	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.0
Ref No. MODE	IC801																			
	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216				
CD PLAY	0.0	1.2	1.6	0.0	0.0	1.2	0.0	0.0	0.0	3.3	0.0	0.0	1.2	0.0	0.0	3.3				
STANDBY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1				
Ref No. MODE	IC802																			
	1	2	3	4	5															
CD PLAY	2.2	0.0	0.0	2.2	0.0															
STANDBY	0.4	0.0	0.0	0.4	0.0															
Ref No. MODE	Q801																			
	E	C	B																	
CD PLAY	0.0	4.8	2.8																	
STANDBY	0.0	4.8	0.3																	

SA-AK780/785 JUPITER P.C.B.

11.9. Mic P.C.B.

Ref No.	IC1000																	
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14				
CD PLAY	4.5	4.5	4.5	4.5	4.5	4.5	4.5	0.0	9.0	4.5	0.0	0.0	4.5	9.0				
STANDBY	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.2	0.0	0.4	0.0	0.4				

SA-AK780/785 MIC P.C.B.

11.10. SMPS P.C.B.

Ref No.	IC5701																	
MODE	1	2	3	4	5	6	7											
CD PLAY	162.0	0	0	19.3	0.1	1.4	0.5											
STANDBY	162.0	0	0	19.3	0.1	1.4	0.5											

Ref No.	IC5709																	
MODE	1	2	3	4	5	6	7	8										
CD PLAY	6.0	1.6	1.8	20.3	162.2	0	0	0										
STANDBY	6.0	1.6	2.0	20.3	163.0	0	0	0										

Ref No.	IC5801																	
MODE	1	2	3															
CD PLAY	2.2	29.5	26.8															
STANDBY	2.2	29.5	26.8															

Ref No.	IC5809																	
MODE	1	2	3															
CD PLAY	4.2	0	2.5															
STANDBY	4.2	0	2.5															

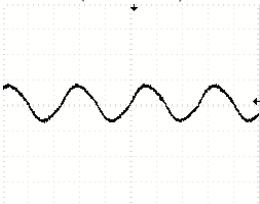
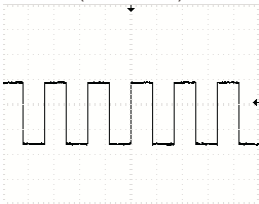
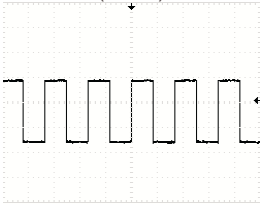
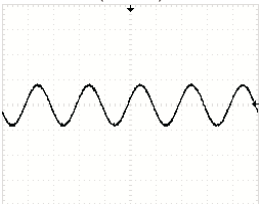
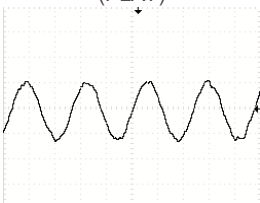
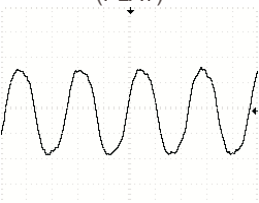
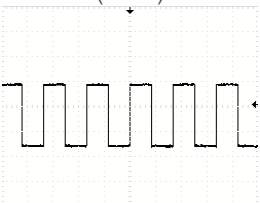
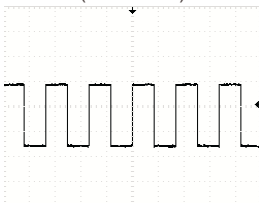
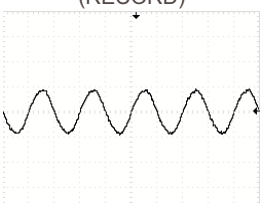
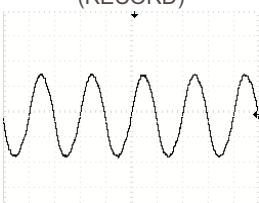
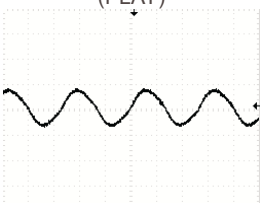
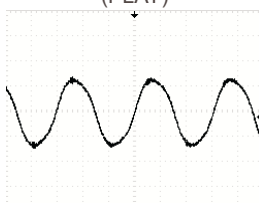
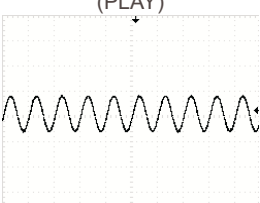
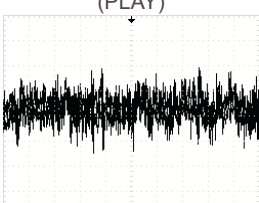
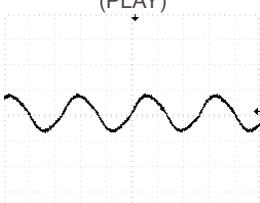
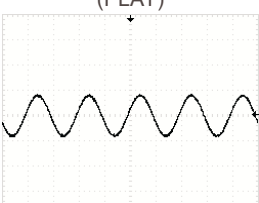
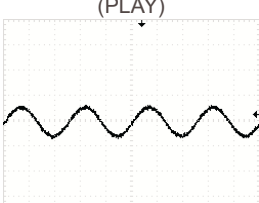
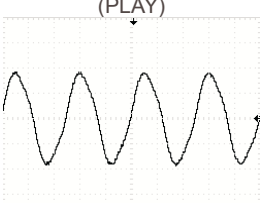
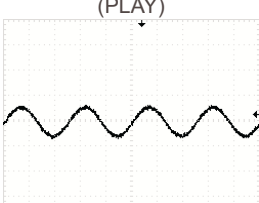
Ref No.	Q5720				Q5721				Q5722				Q5802				Q5803		
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B
CD PLAY	5.9	6.5	5.6		19.9	19.9	19.2		0	17.0	0.1		21.9	2.2	22.0		0	5.8	0
STANDBY	5.9	6.5	5.6		19.9	19.9	19.2		0	16.8	0.1		21.8	2.2	22.0		0	5.8	0

Ref No.	Q5860				Q5861				Q5862				QR5801				QR5802		
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B
CD PLAY	1.3	0	0.7		0	0	0.7		0	5.2	0		0	5.0	0		0	4.5	0
STANDBY	1.3	0	0.7		0	0	0.7		0	5.2	0		0	5.0	0		1.5	1.5	0

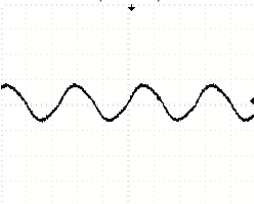
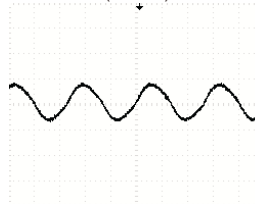
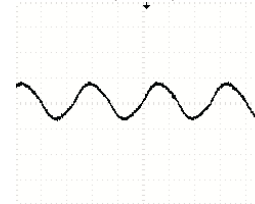
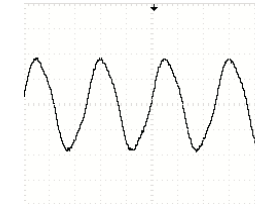
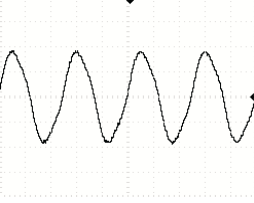
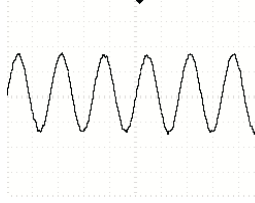
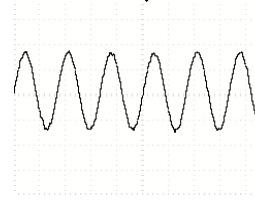
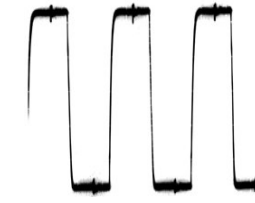
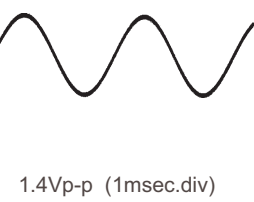
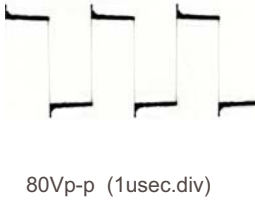
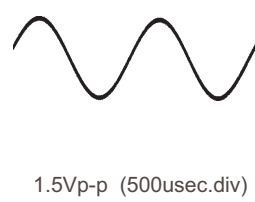
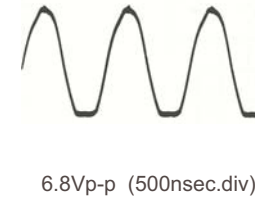
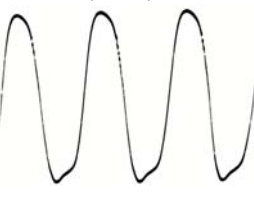
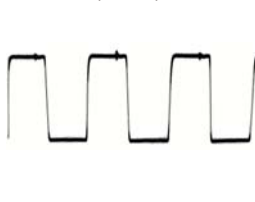
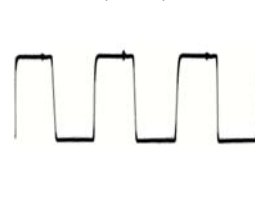
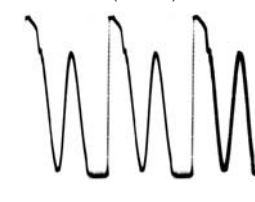
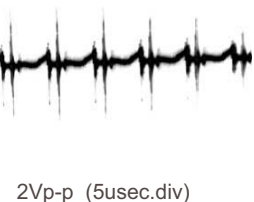
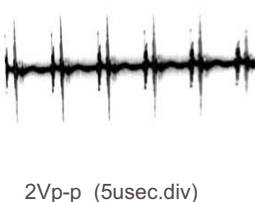
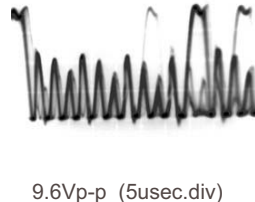
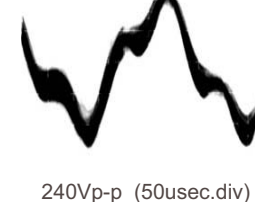
Ref No.	QR5810																		
MODE	E	C	B																
CD PLAY	0	0.1	5.0																
STANDBY	0	0	5.0																

SA-AK780/785 SMPS P.C.B.

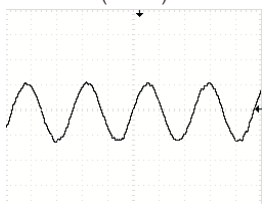
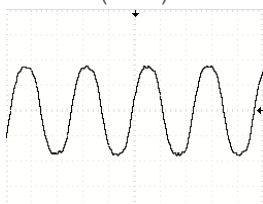
11.11. Waveform Table (1/3)

WF No. IC551 - 1,2 (RECORD)  108mVp-p (50nsec.div)	WF No. IC551 - 9 (RECORD)  3.92Vp-p (500nsec.div)	WF No. IC552 - 3 (PLAY)  3.8Vp-p (500nsec.div)	WF No. IC552 - 9,10 (PLAY)  3.36Vp-p (500usec.div)
WF No. IC801 - 62 (PLAY)  1.2Vp-p (2.5nsec.div)	WF No. IC801 - 63 (PLAY)  3.44Vp-p (25nsec.div)	WF No. IC801 - 118 (PLAY)  3.9Vp-p (500nsec.div)	WF No. IC801 - 121 (RECORD)  3.8Vp-p (500nsec.div)
WF No. IC2801 - 12 (RECORD)  1.84Vp-p (50nsec.div)	WF No. IC2801 - 13 (RECORD)  3.32Vp-p (50nsec.div)	WF No. IC2801 - 15 (PLAY)  880mVp-p (500nsec.div)	WF No. IC2801 - 16 (PLAY)  2.84Vp-p (10usec.div)
WF No. IC2803 - 2,38 (PLAY)  500mVp-p (50 nsec.div)	WF No. IC2803 - 3,37 (PLAY)  700mVp-p (10msec.div)	WF No. IC2803 - 17,22 (PLAY)  804mVp-p (50nsec.div)	WF No. IC2803 - 40,52 (PLAY)  3Vp-p (500usec.div)
WF No. IC2803 - 42,50 (PLAY)  350mVp-p (50usec.div)	WF No. IC2803 - 44,47 (PLAY)  600mVp-p (50nsec.div)	WF No. IC2804 - 1,7 (PLAY)  1.02Vp-p (500usec.div)	WF No. IC2804 - 2,3 (PLAY)  600mVp-p (250nsec.div)

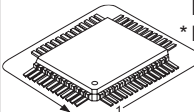
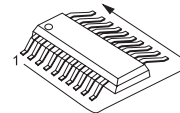
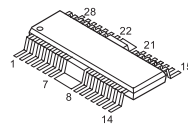
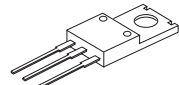
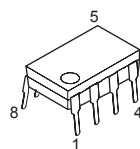
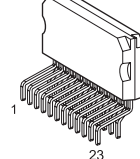
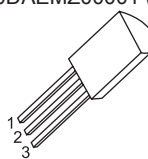
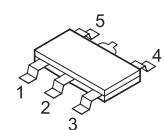
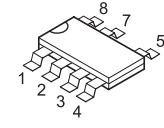
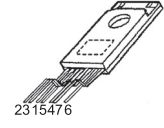
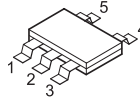
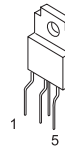
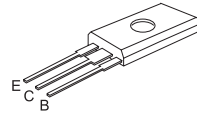
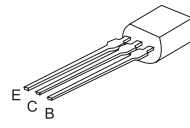
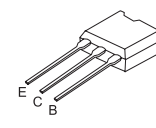
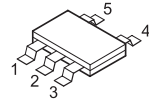
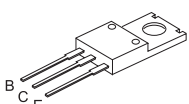
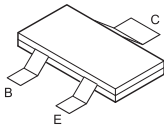
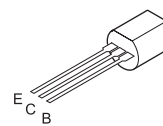
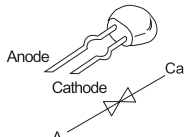
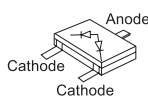
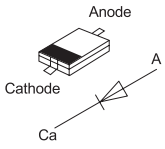
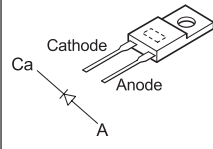
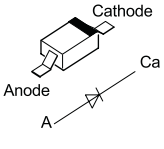
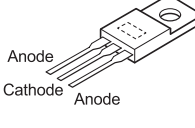
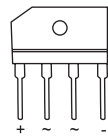
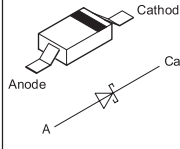
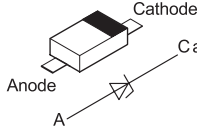
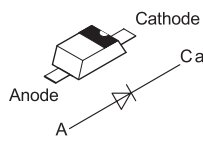
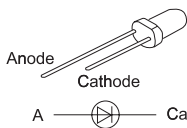
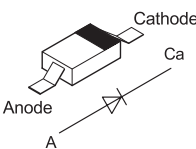
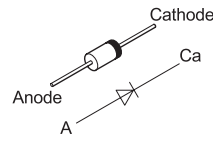
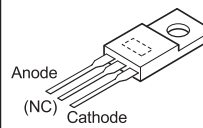
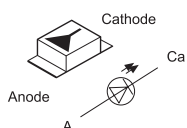
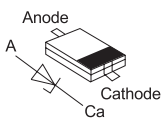
11.12. Waveform Table (2/3)

WF No. IC2804 - 5,6 (PLAY)  109mVp-p (250 nsec.div)	WF No. IC2810 - 1,7 (PLAY)  104mVp-p (250nsec.div)	WF No. IC2810 - 2,3 (PLAY)  164mVp-p (250nsec.div)	WF No. IC2810 - 5,6 (PLAY)  508mVp-p (250usec.div)
WF No. IC2121 - 1,7 (PLAY)  2.88Vp-p (250usec.div)	WF No. IC2121 - 2,3 (PLAY)  1.32Vp-p (250usec.div)	WF No. IC2121 - 5,6 (PLAY)  1.3Vp-p (250usec.div)	WF No. IC5000 - 1 (PLAY)  5.6Vp-p (1sec.div)
WF No. IC5000 - 2 (PLAY)  1.4Vp-p (1msec.div)	WF No. IC5000 - 10,14 (PLAY)  80Vp-p (1usec.div)	WF No. IC5000 - 21 (PLAY)  1.5Vp-p (500usec.div)	WF No. IC5500 - 5 (PLAY)  6.8Vp-p (500nsec.div)
WF No. IC5500 - 6 (PLAY)  5.6Vp-p (500nsec.div)	WF No. IC5500 - 8 (PLAY)  5.8Vp-p (500nsec.div)	WF No. IC5501 - 1 (PLAY)  5.2Vp-p (1usec.div)	WF No. IC5701 - 1 (PLAY)  400Vp-p (2usec.div)
WF No. IC5701 - 4,6 (PLAY)  2Vp-p (5usec.div)	WF No. IC5799 - 2 (PLAY)  2Vp-p (5usec.div)	WF No. IC5799 - 3 (PLAY)  9.6Vp-p (5usec.div)	WF No. IC5799 - 5 (PLAY)  240Vp-p (50usec.div)

11.13. Waveform Table (3/3)

WF No. IC5899 - 1,2,3 (PLAY)  1.65Vp-p (5msec.div)	WF No. IC7001 - 13 (PLAY)  3.56Vp-p (25nsec.div)	WF No. IC7001 - 14 (PLAY)  1.2Vp-p (25nsec.div)	
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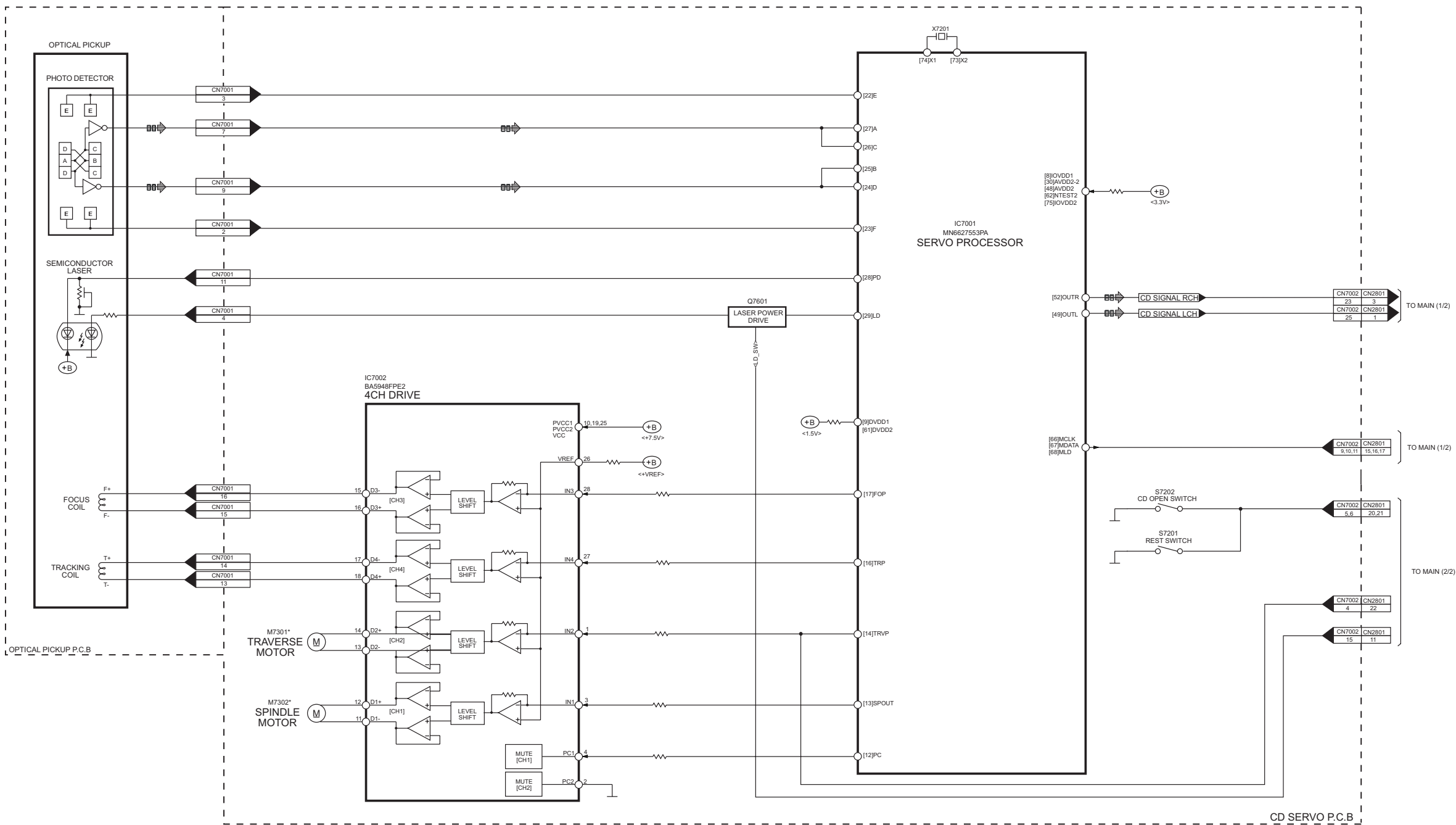
12 Illustration of ICs, Transistor and Diode

C0HBB000057 (44P) C1AB00003093 (52P) MN2WS0042AA (216P) MN6627553PA (80P) * MN101EF16KXW (100P) *Este material debe ser grabado. 		C0FBBY000027 (16P) C0FBAK000026 (16P) C0JBAB0000902 (14P) C0ABBB000230 (8P) RFKWFAK780PN (48P) RFKWEAK780PN (8P) 		BA5948FPE2 	C0CAAKG00046 	
C0AABB000125 (8P) 	C1BA00000492 (23P) 	C0DABFC00002 (3P) C0DAEMZ00001 (3P) 	C0DBZYY00293 (5P) C0DBGYY00089 (5P) 	MIP4110MSSCF 	C5HACYY00005 (7P) C5HACYY00004 (7P) 	
C0DBZHE00026 (5P) 	C0DAAYG00001 (5P) 	B1BACD000018 	B1ACKD000006 	B1BABK000001 	B1GFGCAA0001 (5P) 	
B1BACG000023 B1BCCG000002 	B1GBCFJJ0051 B1ABCF000176 B1ADCE000012 B1GBCFJN0033 B1GDCFGA0018		B1GBCFLL0037 B1GBCFGN0016 2SA207700L UNR221400L B1GDCFJJ0047 B1ADCF000001 		2SC3940ARA 	ERZV10V511CS 
B0ADCC000002 B0ADCJ000020 	B0ACCK000005 B0JCMD000022 	B0HFRJ000012 	B0BC035A0007 B0HCSP000001 	B0HBSM000043 	B0FBAR000041 	
B0HCMM000019 	MAZ8056GML MAZ8180GML MAZ8051GML MAZ8075GML MAZ8100G0L MAZ8240GHL B0BC5R600003 B0BC019A0007		B0BC9R000008 B0BC010A0007 	B0BC2R4A0006 B0BC6R100010 B0BC4R3A0006 	B3AEA0000131 	
MA2J1110GL MA27D2900L MA2J7280GL 	B0JAME000114 B0EAMM000057 B0HAMP000094 B0EAKM000117 		B0ZAZ0000052 	B3AAB0000322 		
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13 Block Diagram

13.1. CD Servo Block Diagram

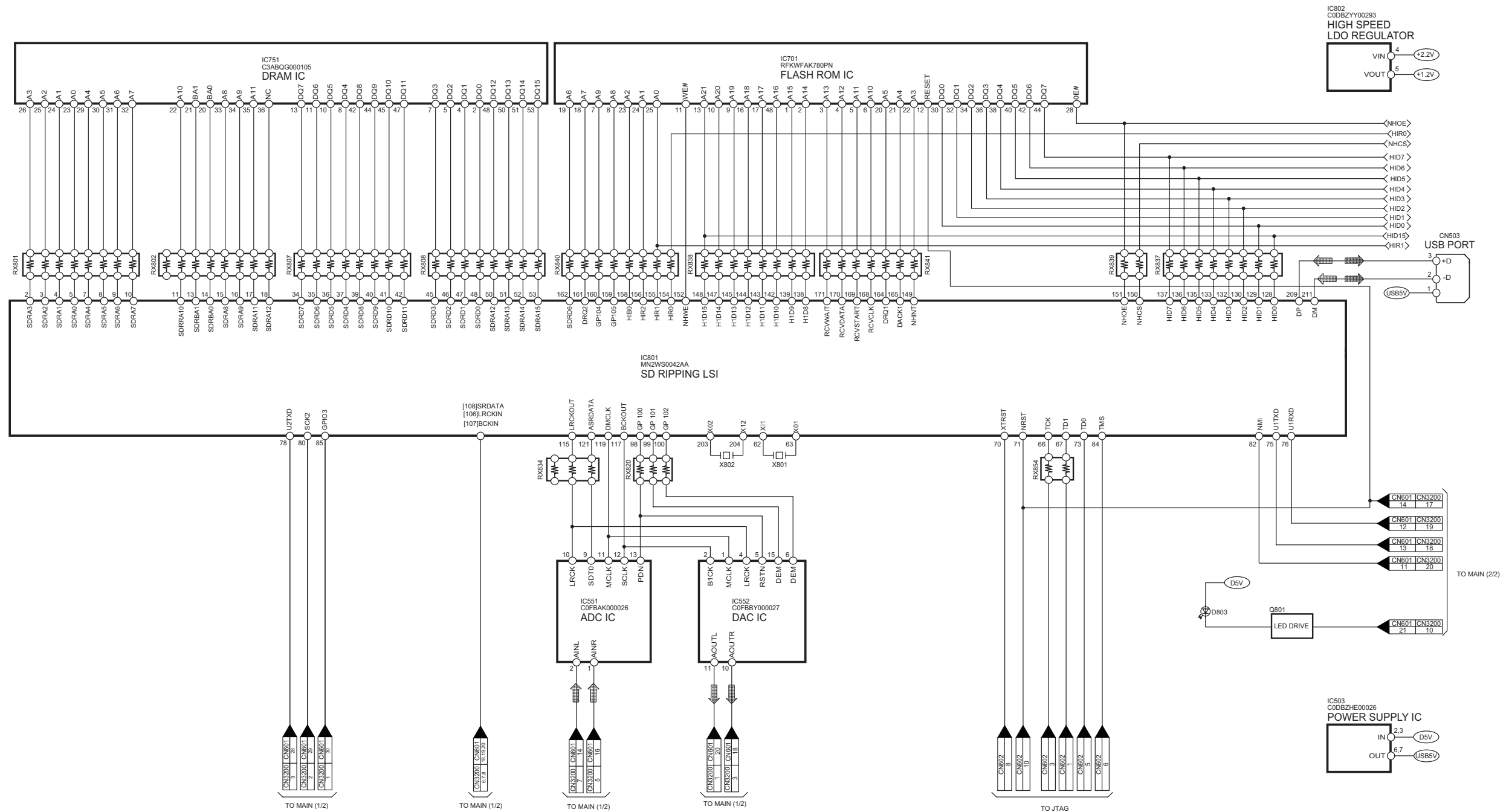
⚡: CD AUDIO INPUT SIGNAL LINE



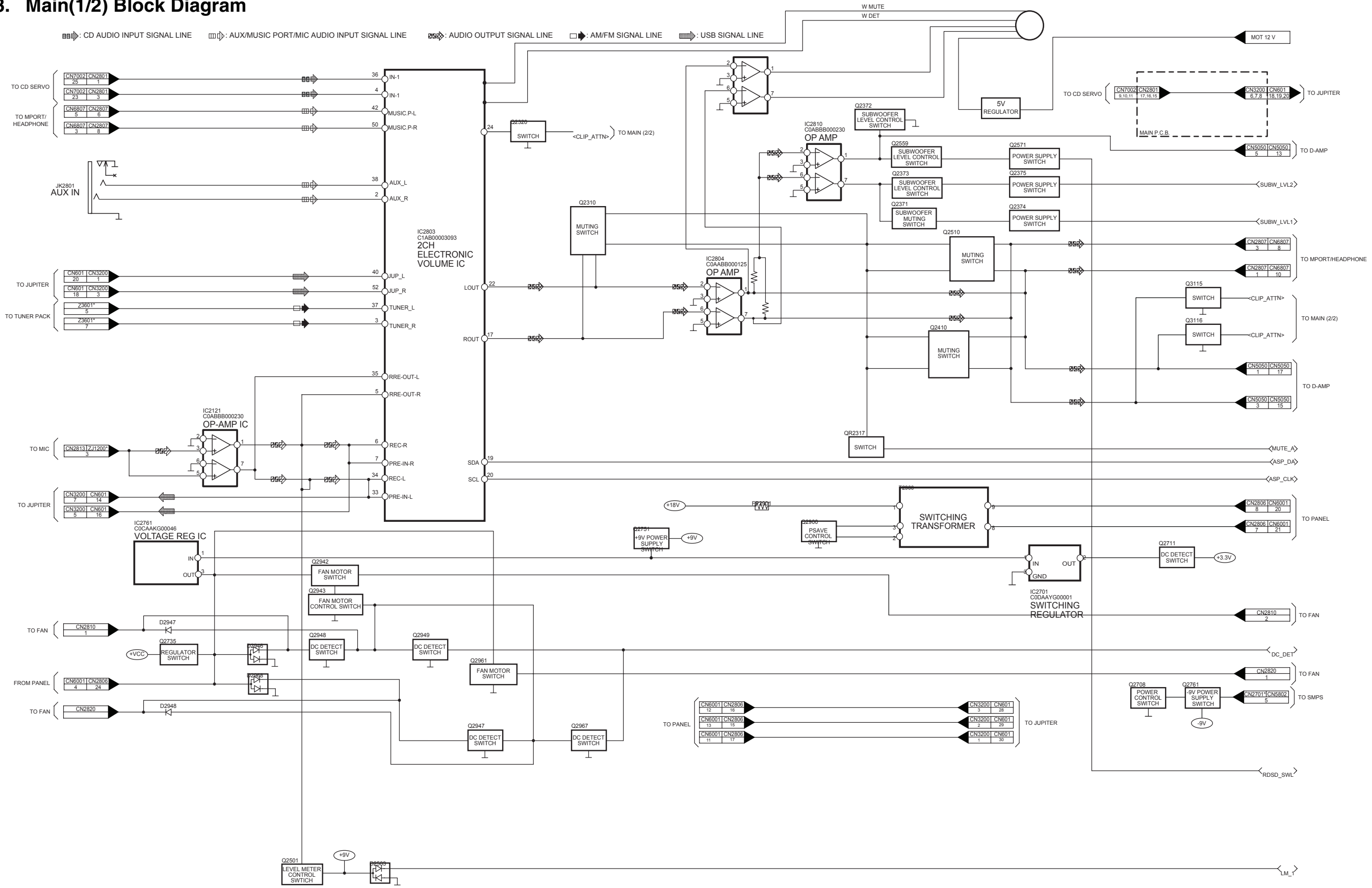
SA-AK780/785 CD SERVO BLOCK DIAGRAM

13.2. Jupiter Block Diagram

: USB SIGNAL LINE

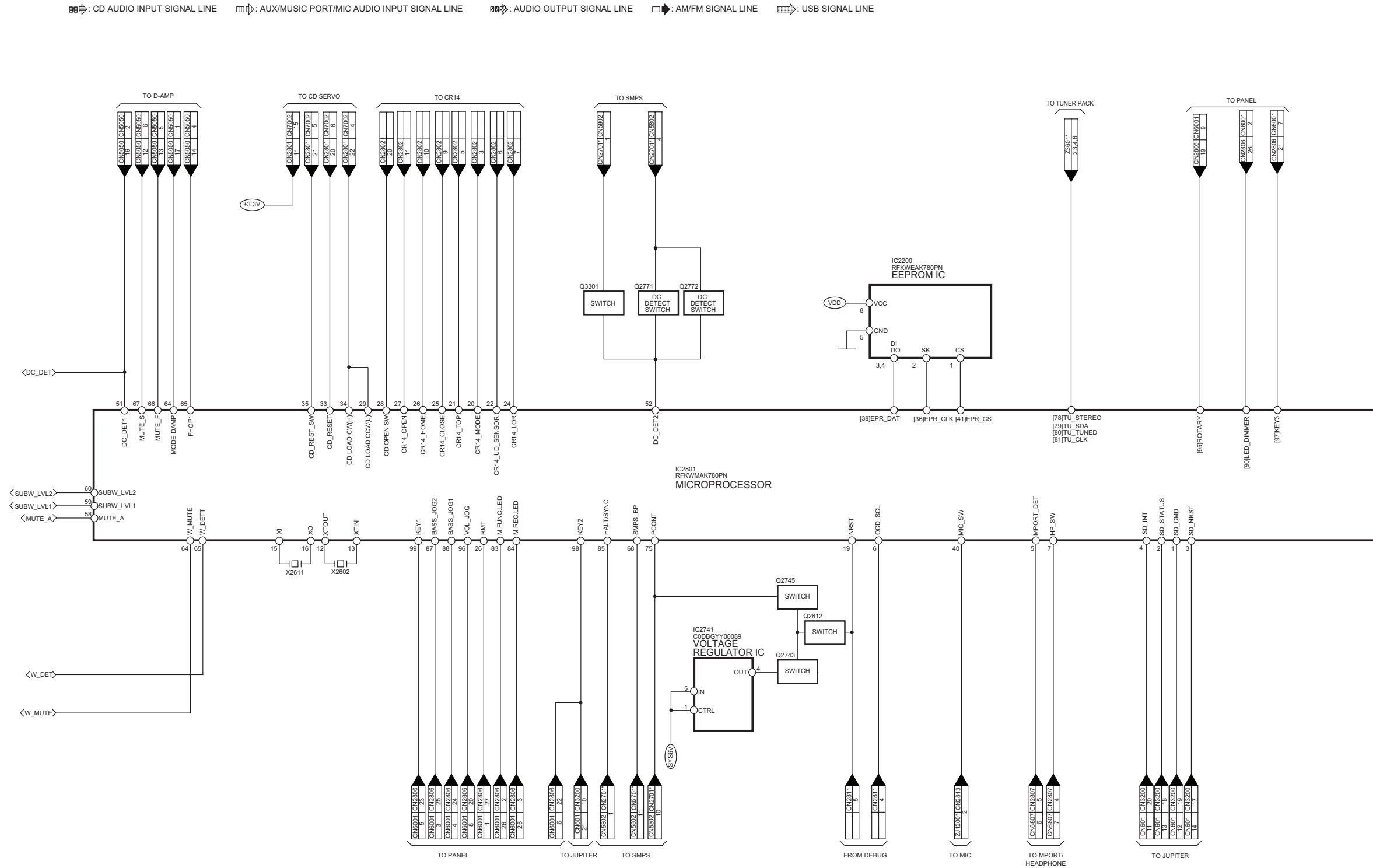


13.3. Main(1/2) Block Diagram



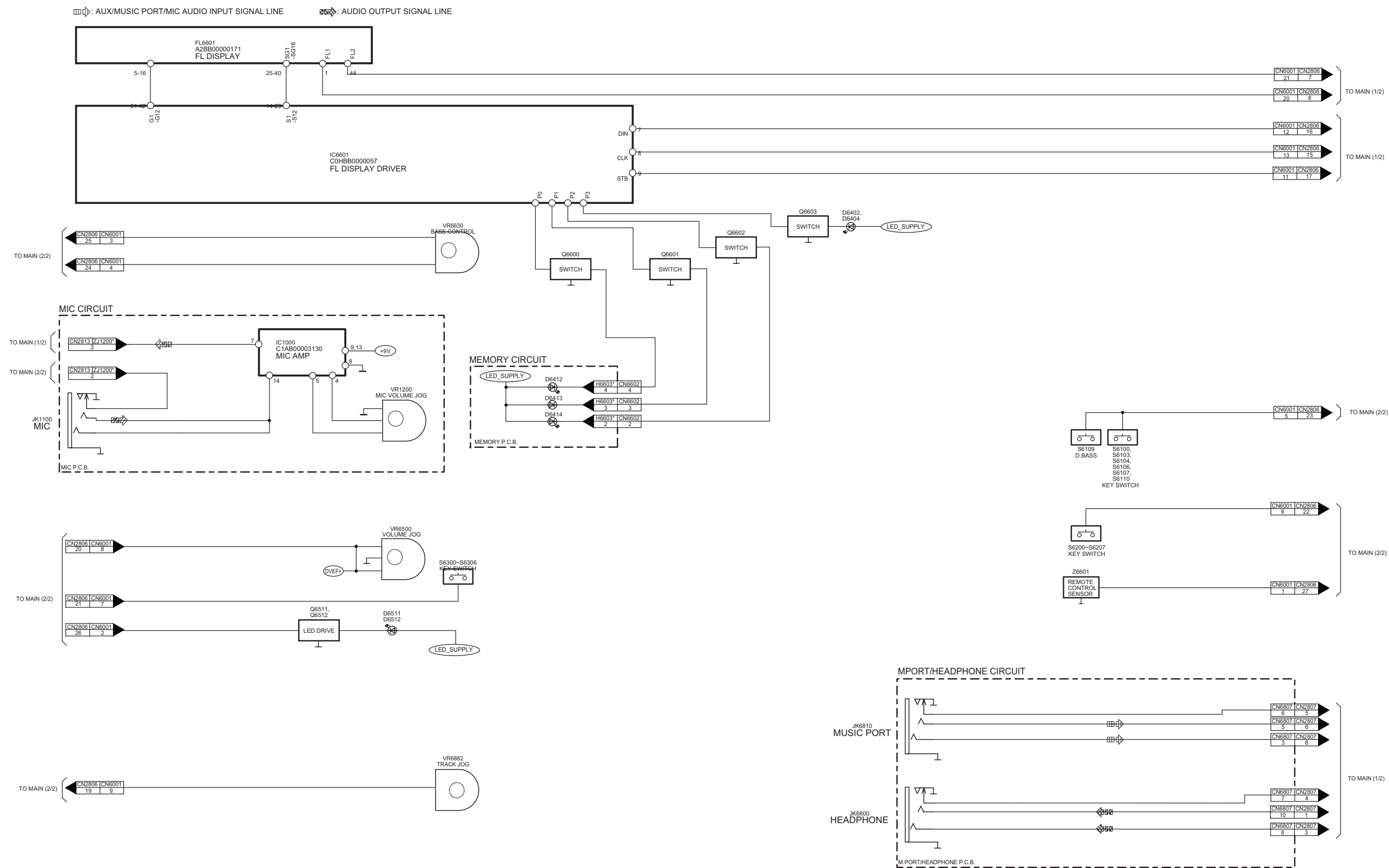
SA-AK785 MAIN(1/2) BLOCK DIAGRAM

13.4. Main(2/2) Block Diagram



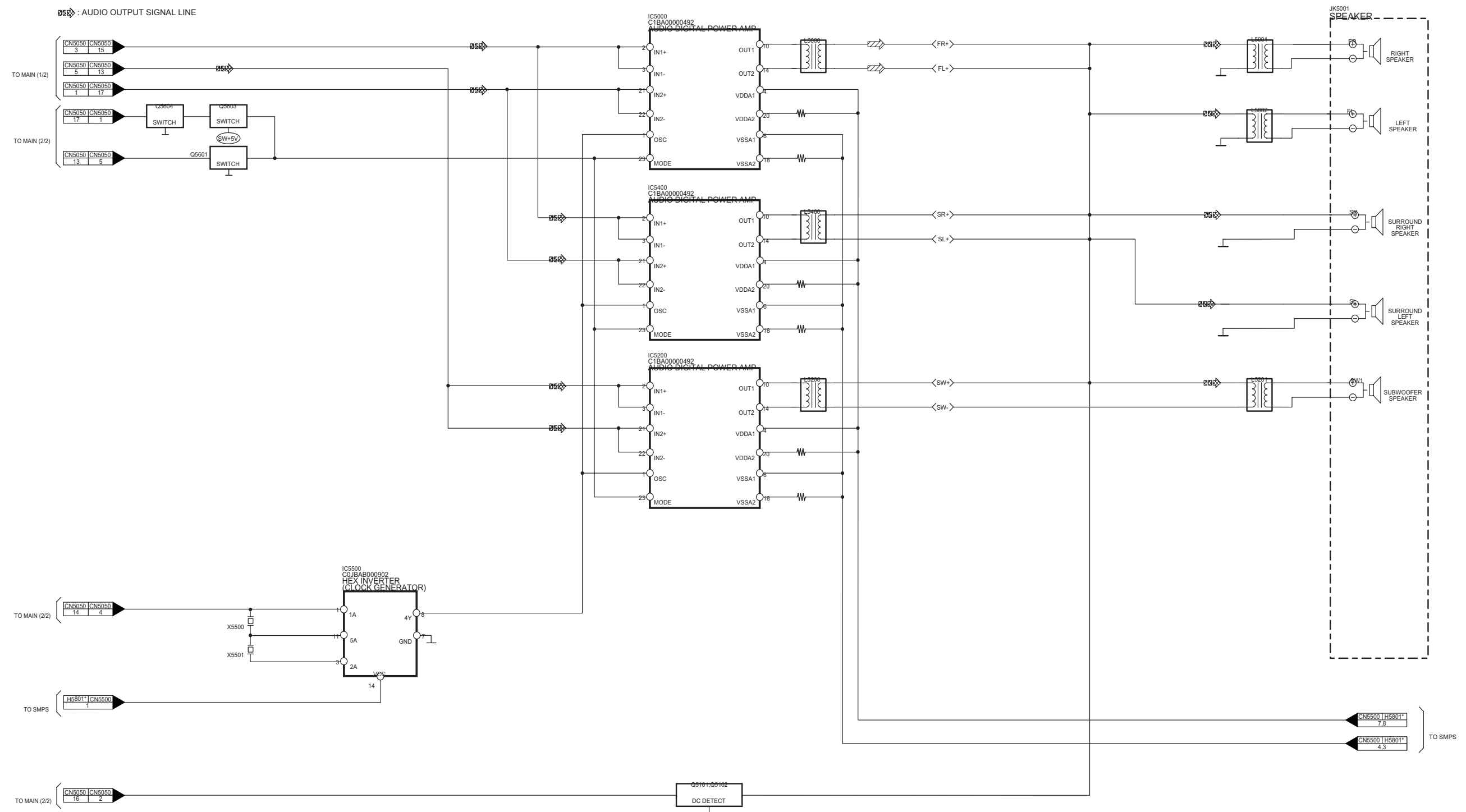
SA-AK785 MAIN(2/2) BLOCK DIAGRAM

13.5. Panel / MPort/Headphone / Mic / Memory Block Diagram



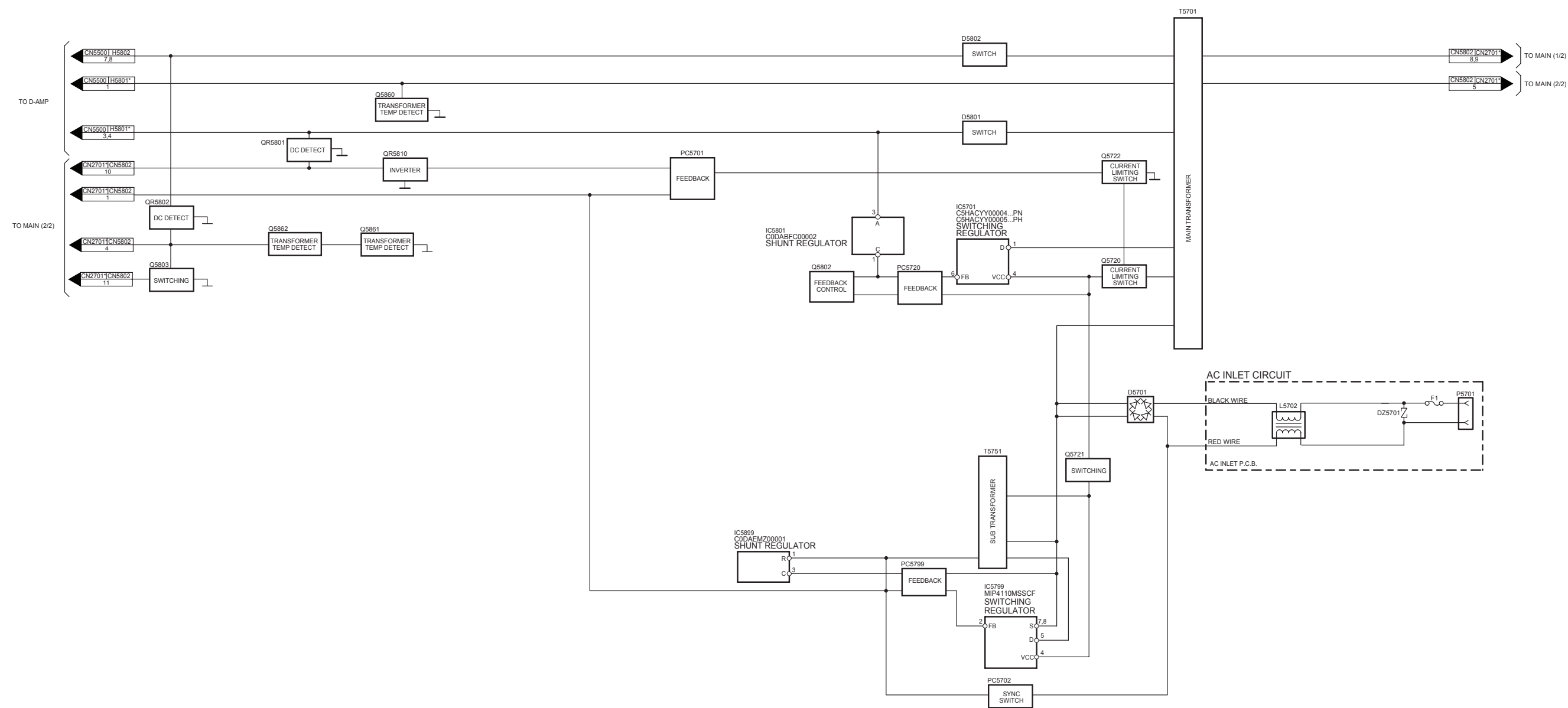
SA-AK780/785 PANEL / MPORT/HEADPHONE / MIC / MEMORY BLOCK DIAGRAM

13.6. D-Amp Block Diagram

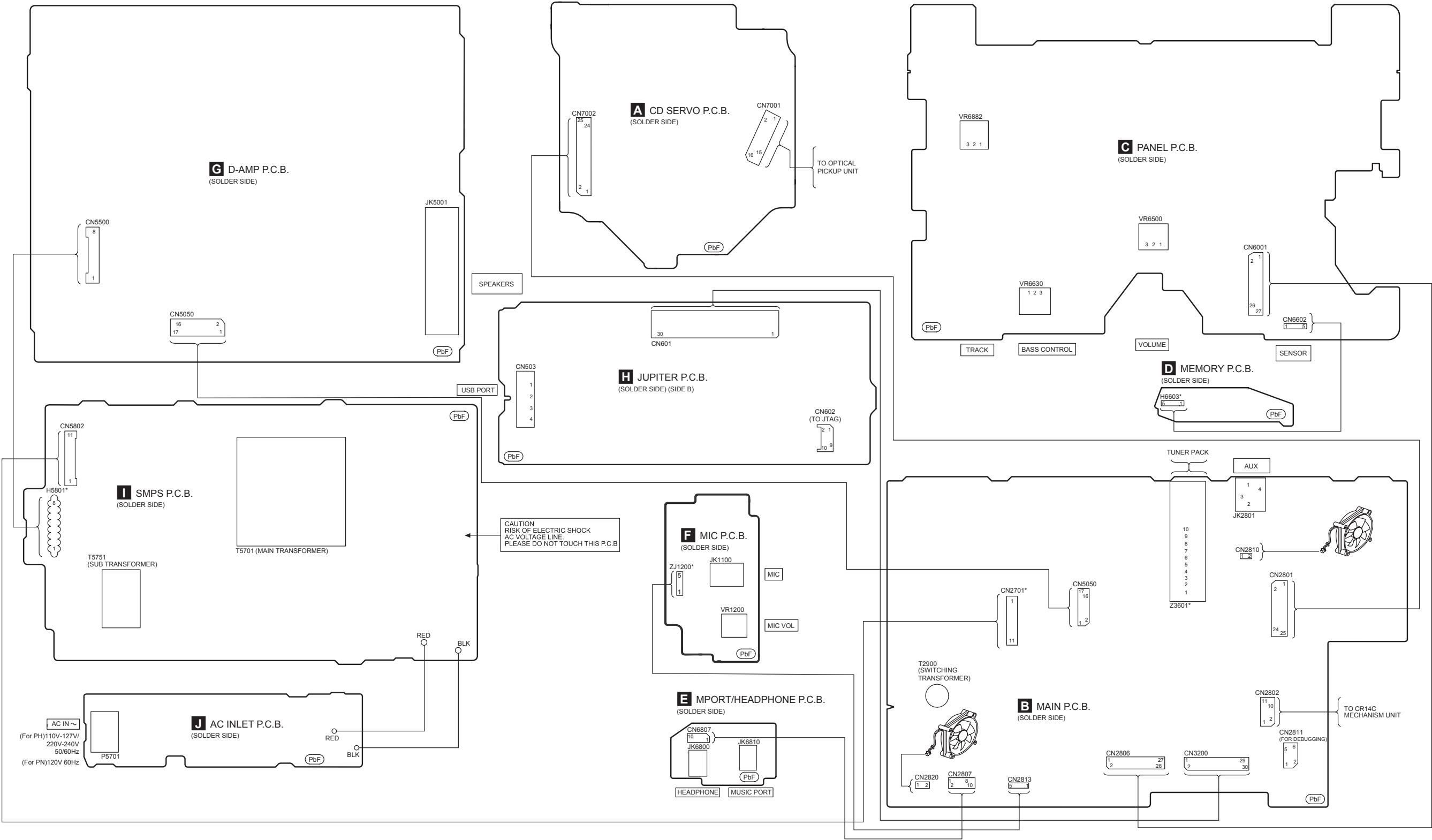


SA-AK780/785 D-AMP BLOCK DIAGRAM

13.7. SMPS / AC Inlet Block Diagram



14 Wiring Connection Diagram



NOTE: " * " REF IS FOR INDICATION ONLY.

15 Schematic Diagram Notes

- This schematic diagram may be modified at any time with the development of new technology.

Notes:

S5701:	Voltage Selector switch.
S6100:	Power switch (⏻/⏻).
S6104:	USB REC switch (▶/).
S6107:	Subwoofer.
S6109:	D.Bass.
S6200:	Open/Close switch (▲).
S6201:	Exchange (▲) switch.
S6202:	CD Disc 1 (1 ▶) switch.
S6203:	CD Disc 2 (2 ▶) switch.
S6204:	CD Disc 3 (3 ▶) switch.
S6205:	CD Disc 4 (4 ▶) switch.
S6206:	CD Disc 5 (5 ▶) switch.
S6207:	Stop/-Demo (■ -DEMO) switch.
S6300:	Manual EQ- (◀◀/◀◀) switch.
S6301:	Manual EQ (MANUAL EQ) switch.
S6302:	Manual EQ+ (▶▶/▶▶) switch.
S6303:	CD (▶/) switch.
S6304:	FM/AM switch.
S6305:	AUX switch.
S6306:	Music Port switch.
S6307:	USB (▶/) switch.
S7201:	Rest switch.
S7202:	CD open switch.
VR1200:	MIC Vol Jog.
VR6500:	Volume Jog.
VR6630:	BASS Control Jog.
VR6882:	Track Jog.

- Important safety notice:

Components identified by ⚠ mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardant (resistors), high quality sound (capacitors), low-noise (resistors), etc are used.

When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

- In case of AC rated voltage Capacitors, the part no. and values will be indicated in the Schematic Diagram.

AC rated voltage capacitors:

C5700, C5701, C5703, C5704, C5705, C5706, C5707

- Resistor

Unit of resistance is OHM [Ω] (K=1,000, M=1,000,000).

- Capacitor

Unit of capacitance is μF, unless otherwise noted. F=Farads, pF=pico-Farad.

- Coil

Unit of inductance is H, unless otherwise noted.

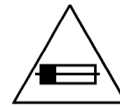
- *

REF IS FOR INDICATION ONLY.

- Voltage and signal line

—	: +B signal line
---	: -B signal line
⏻	: CD Audio input signal line
⏻	: AUX/MUSIC PORT/MIC/Audio input signal line
⏻	: Audio output signal line
⏻	: USB signal line
⏻	: AM/FM signal line

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE 233 F1 8A, 125V FUSE (For PN)
TYPE 215 F1 T8AH, 250V FUSE (For PH)



RISK OF FIRE-REPLACE FUSE AS MARKED.

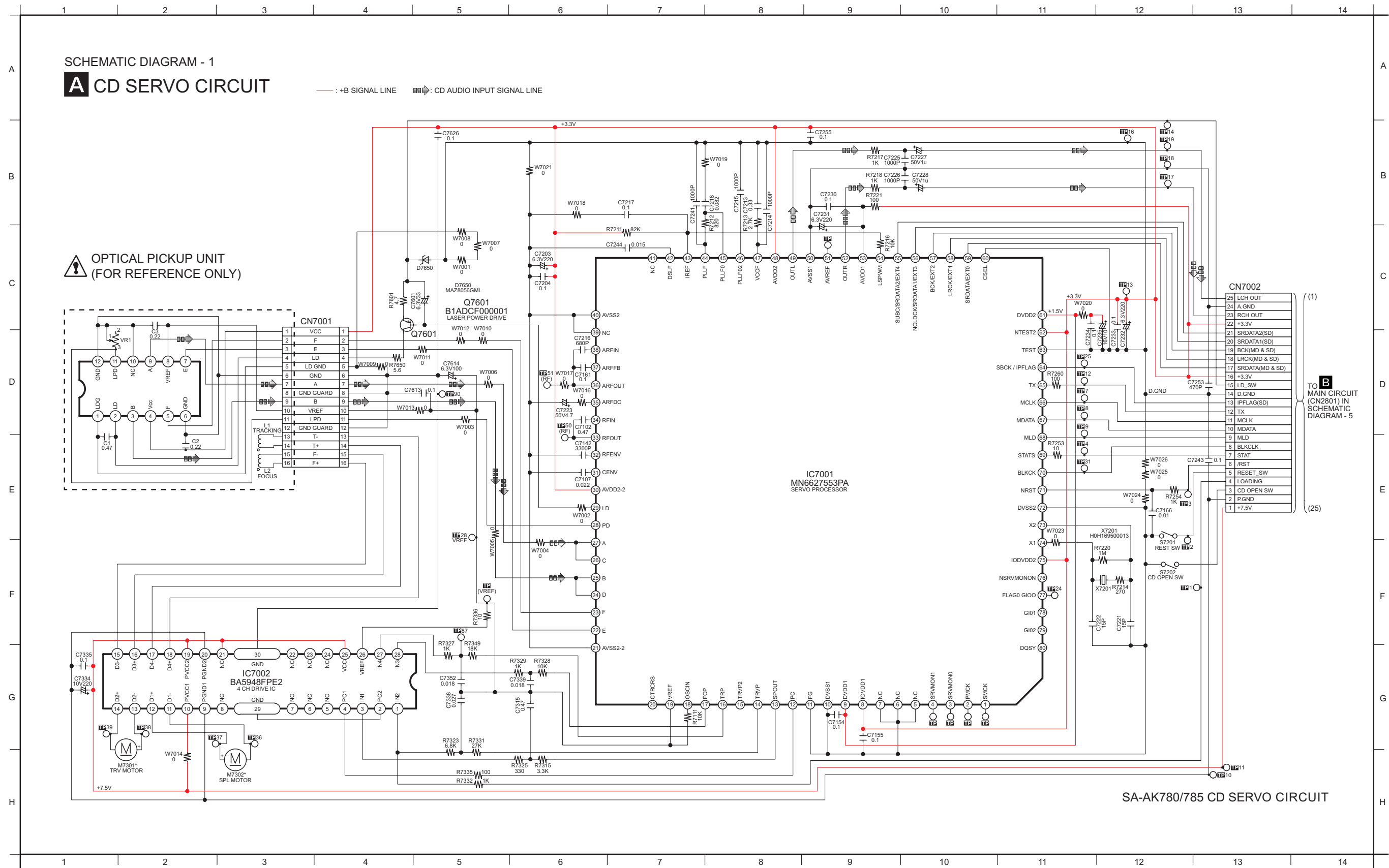
FUSE CAUTION



These symbols located near the fuse indicates that the fuse used is a fast operating type. For continued protection against fire hazard, replace with the same type fuse. For fuse rating, refer to the marking adjacent to the symbol.

16 Schematic Diagram

16.1. CD Servo Circuit

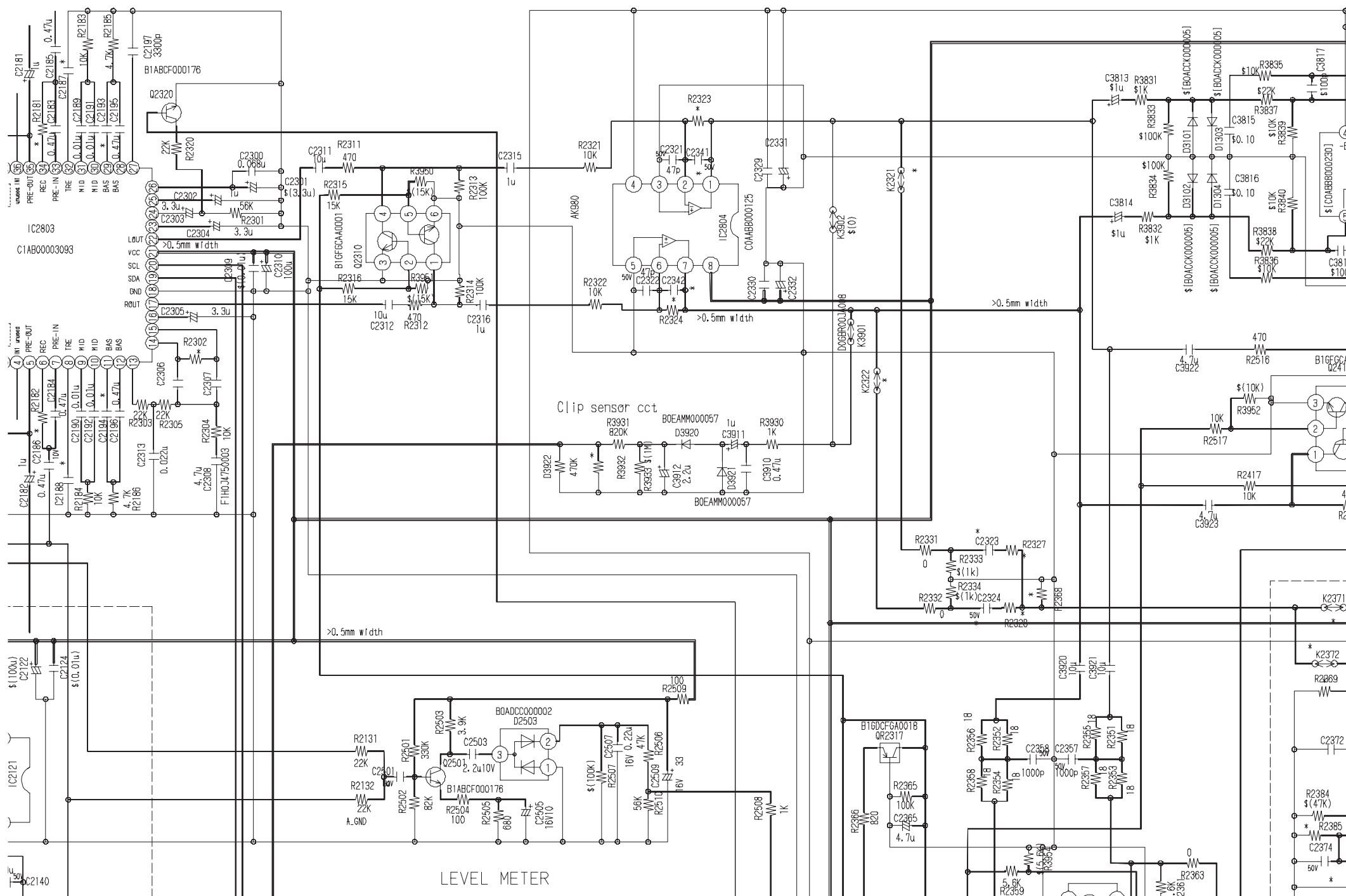


The schematic diagram illustrates the internal circuitry of a portable music player. Key components include:

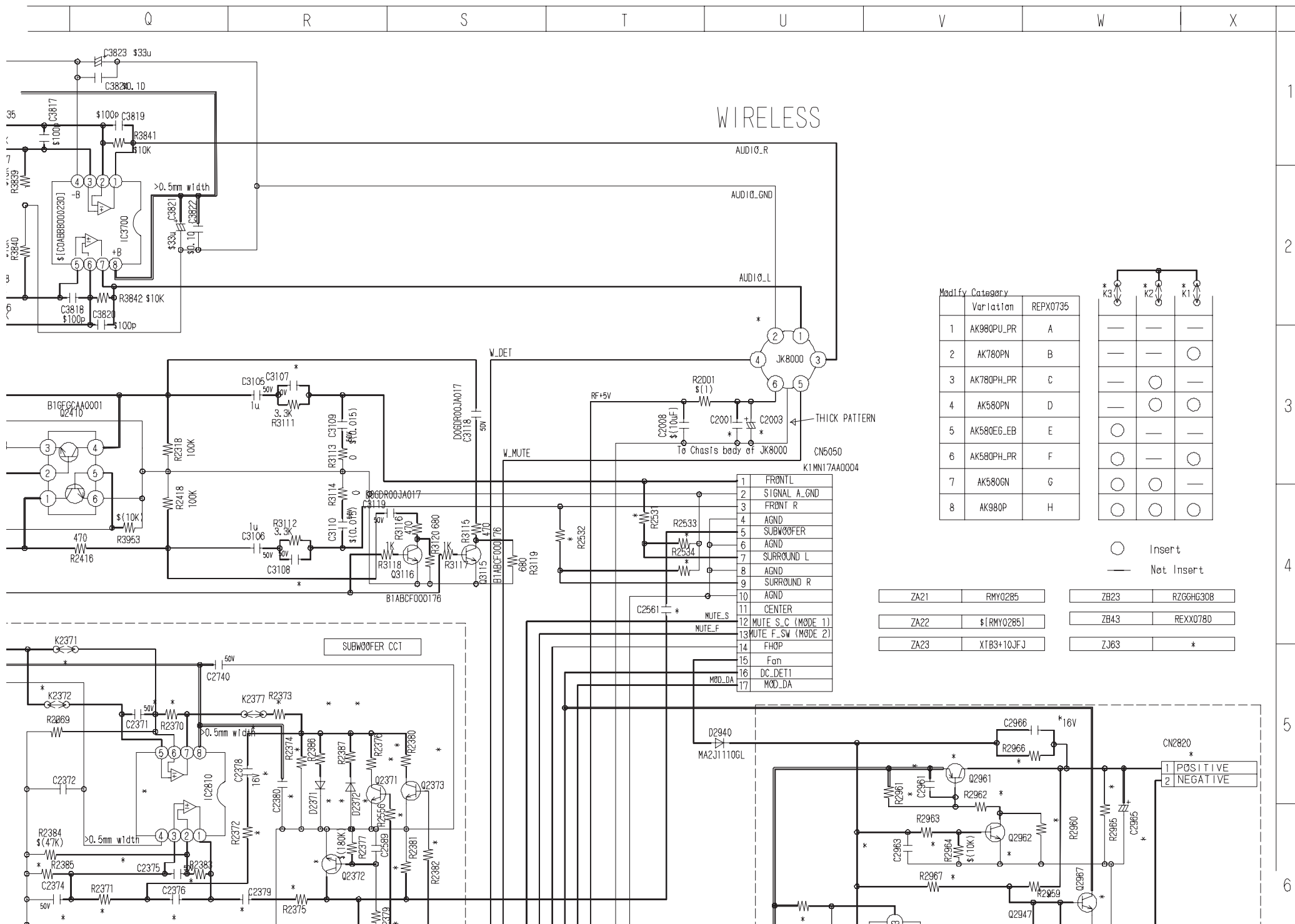
- JX2801 K2HA204BQ153**: A multi-functional IC handling audio processing and control.
- AUX Section**: Features a TL1 op-amp and associated passive components for external audio input.
- TUNER Section**: Includes a GOC330JA0065 tuner chip and various matching networks.
- REC Section**: Contains recording-related components, including a COUDBD000230 chip and various filters.
- Power Management**: Shows +9V supply rails and decoupling capacitors.
- Connectors**: J1 (USB), J2 (AUX), and J3 (Tuner) are shown with their respective pin connections.

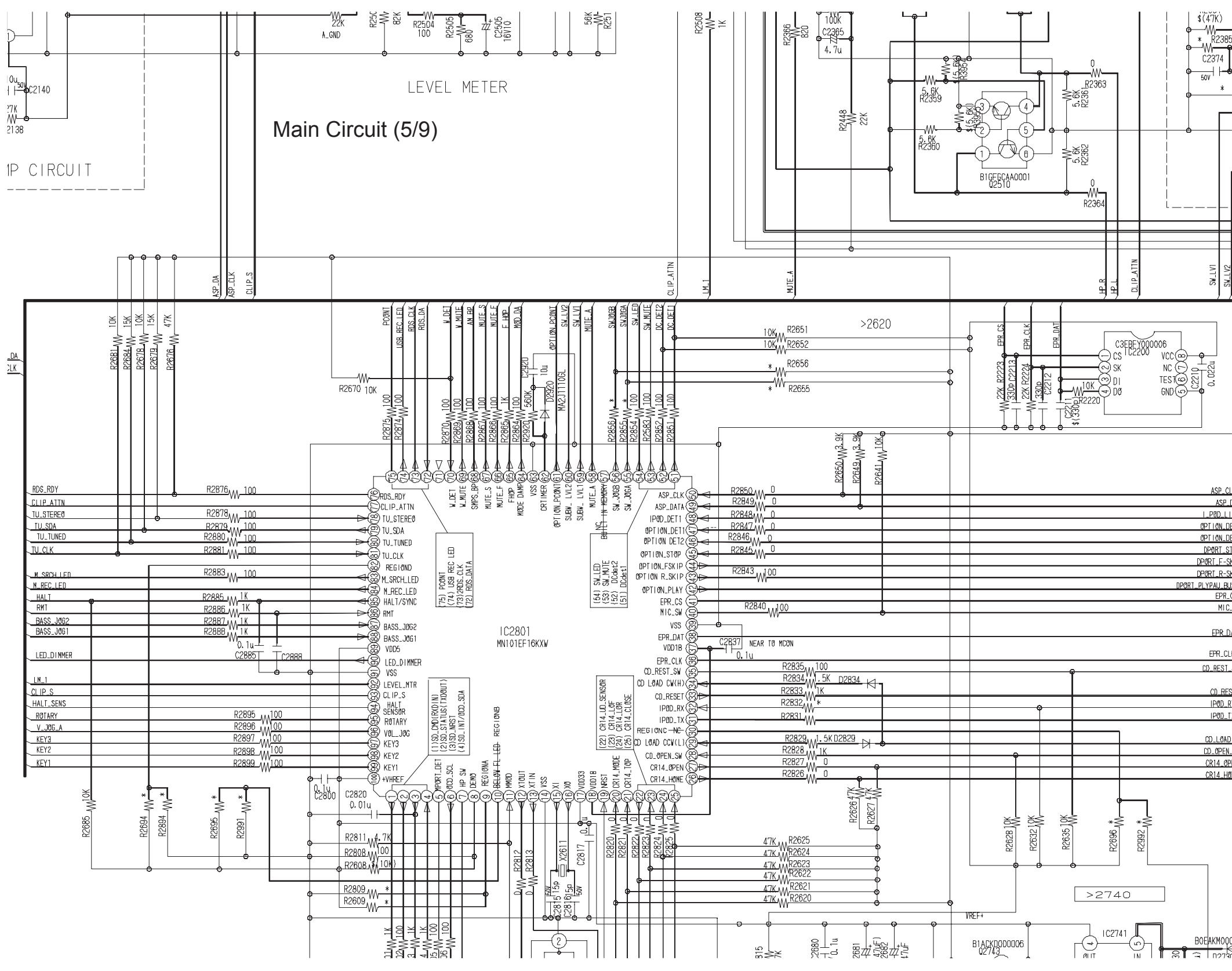
The diagram uses standard electronic symbols for capacitors (C), resistors (R), integrated circuits (IC), and connectors (J). Component values are specified throughout, such as 10k, 100nF, and 10µF. Footprints are labeled with part numbers like C2093, C2095, R2083, R2084, etc.

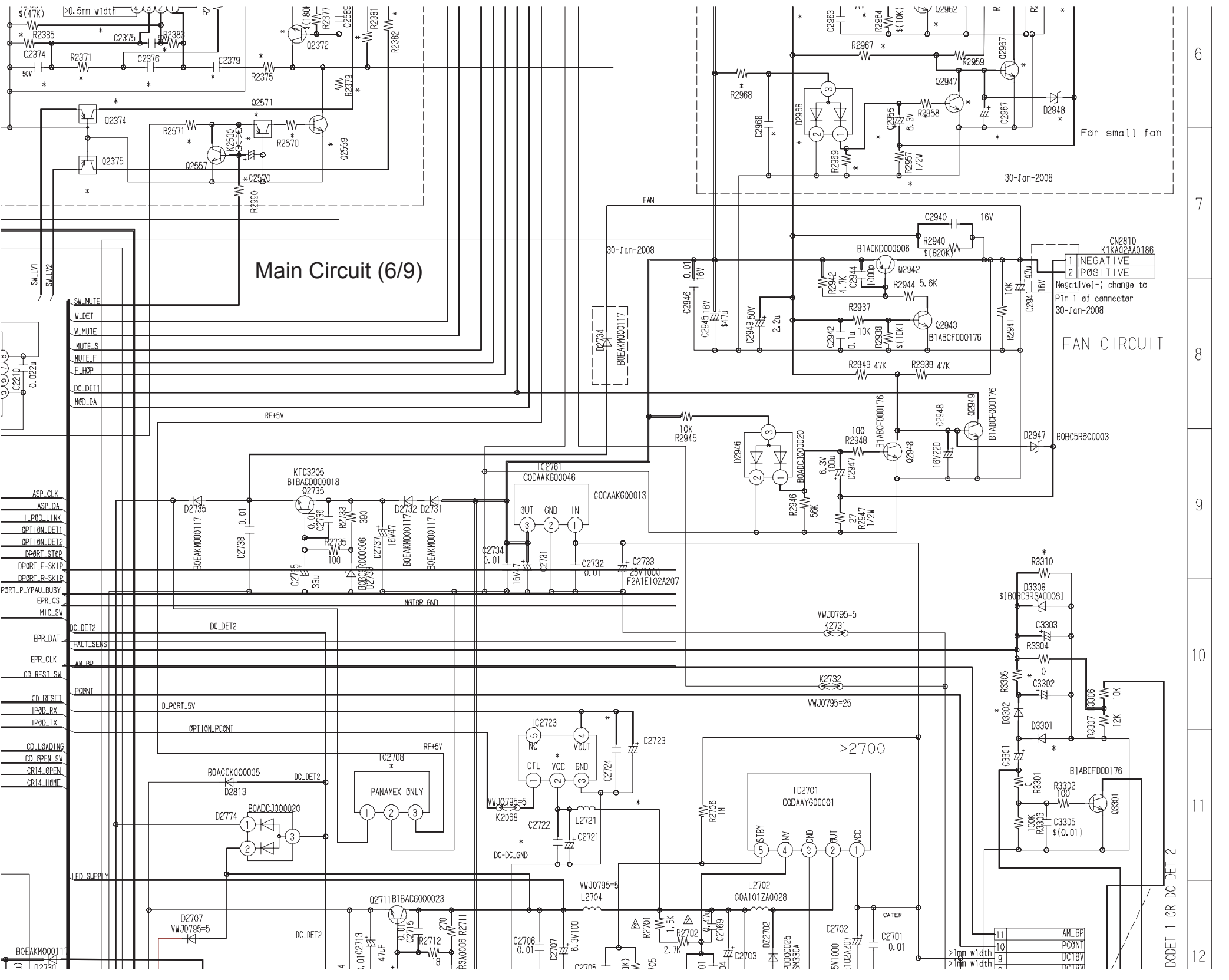
	I	J	K	L	M	N	Ø	P
--	---	---	---	---	---	---	---	---



Main Circuit (3/9)







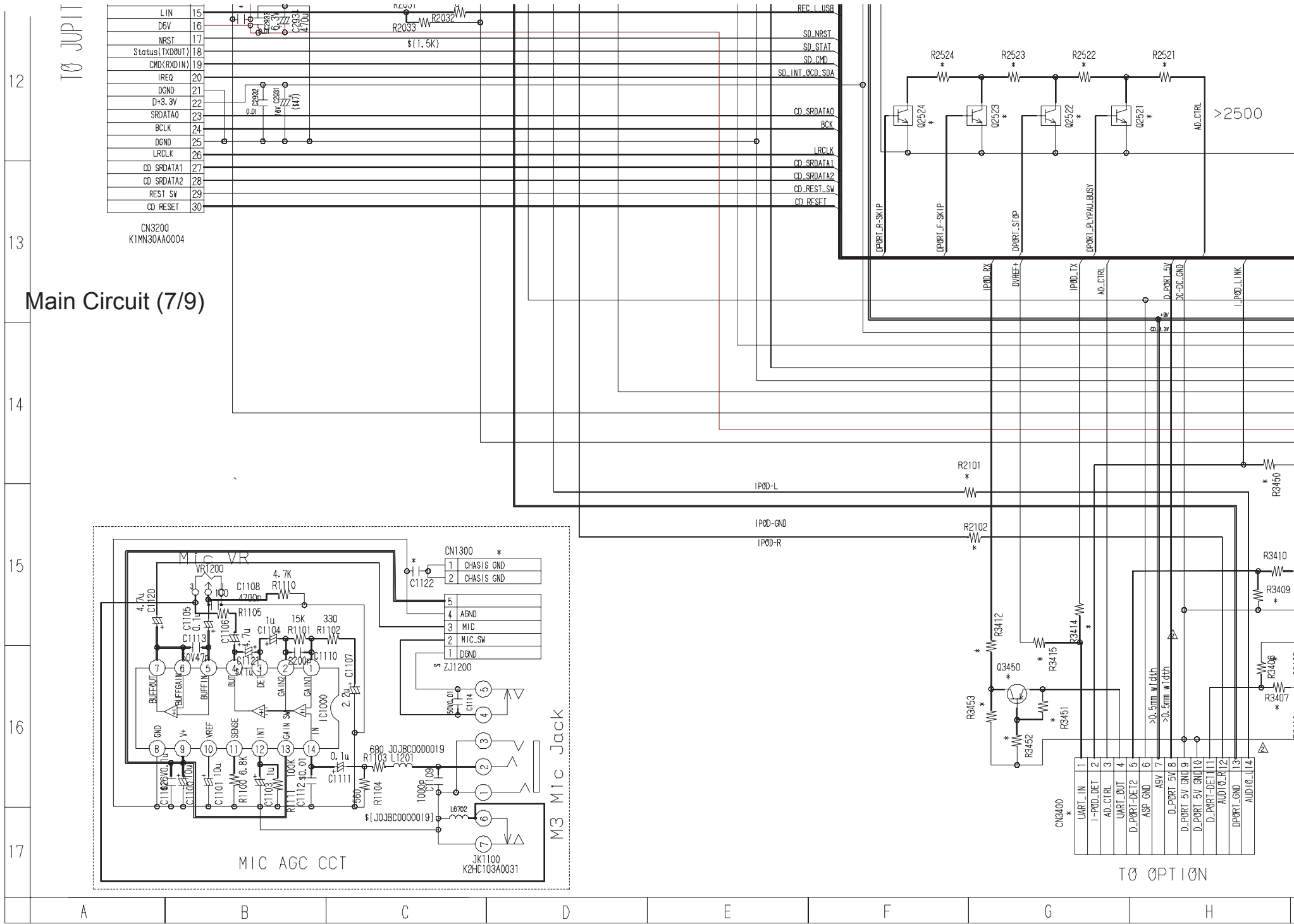
Main Circuit (6/9)

FAN CIRCUIT

For small fan

CN2810
K1KA02AA0186
1 NEGATIVE
2 POSITIVE
Negative(-) change to
Pin 1 of connector
30-Jan-2008

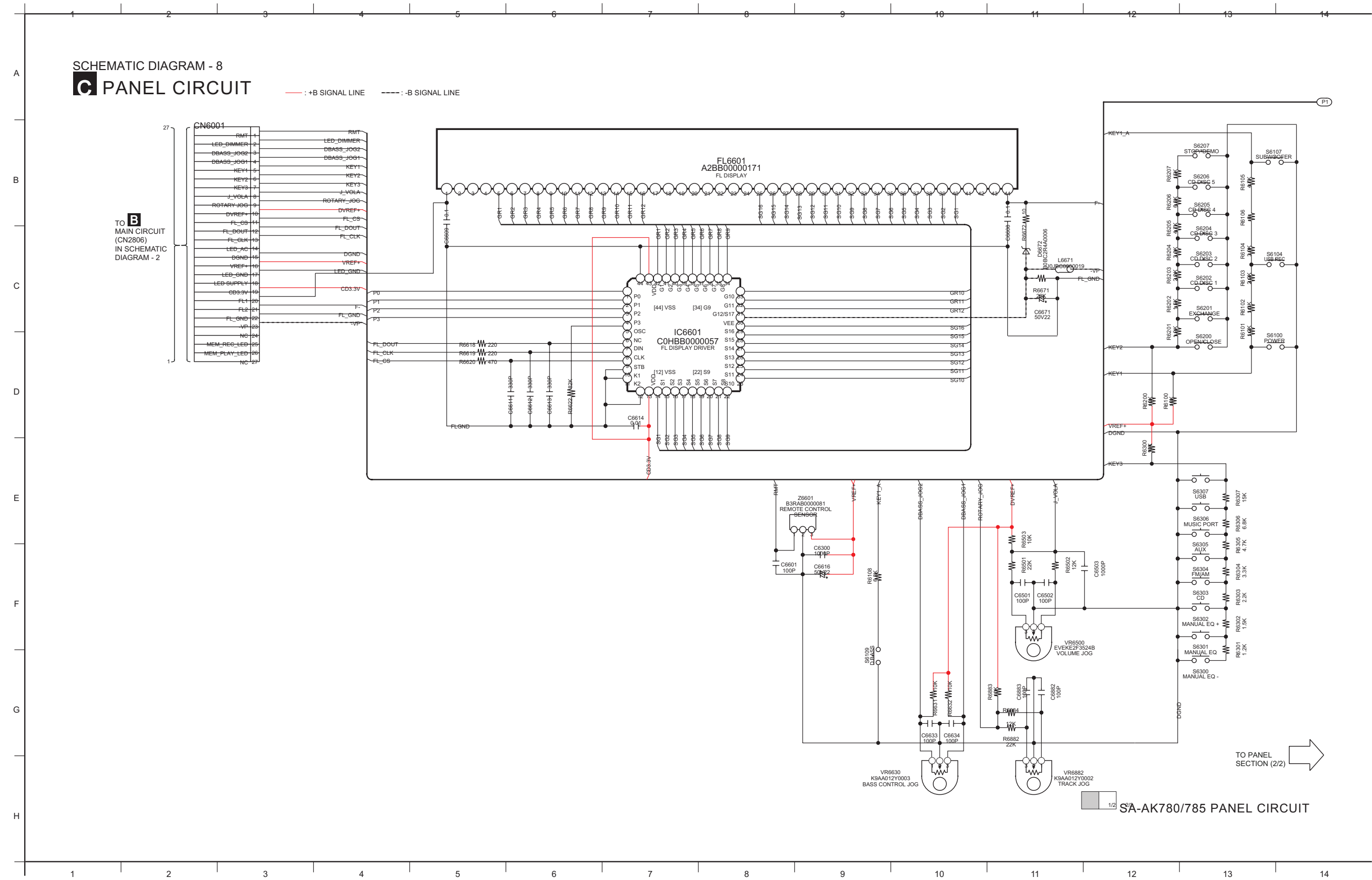
DCDET 1 OR DC DET 2





AK MAIN BOARD

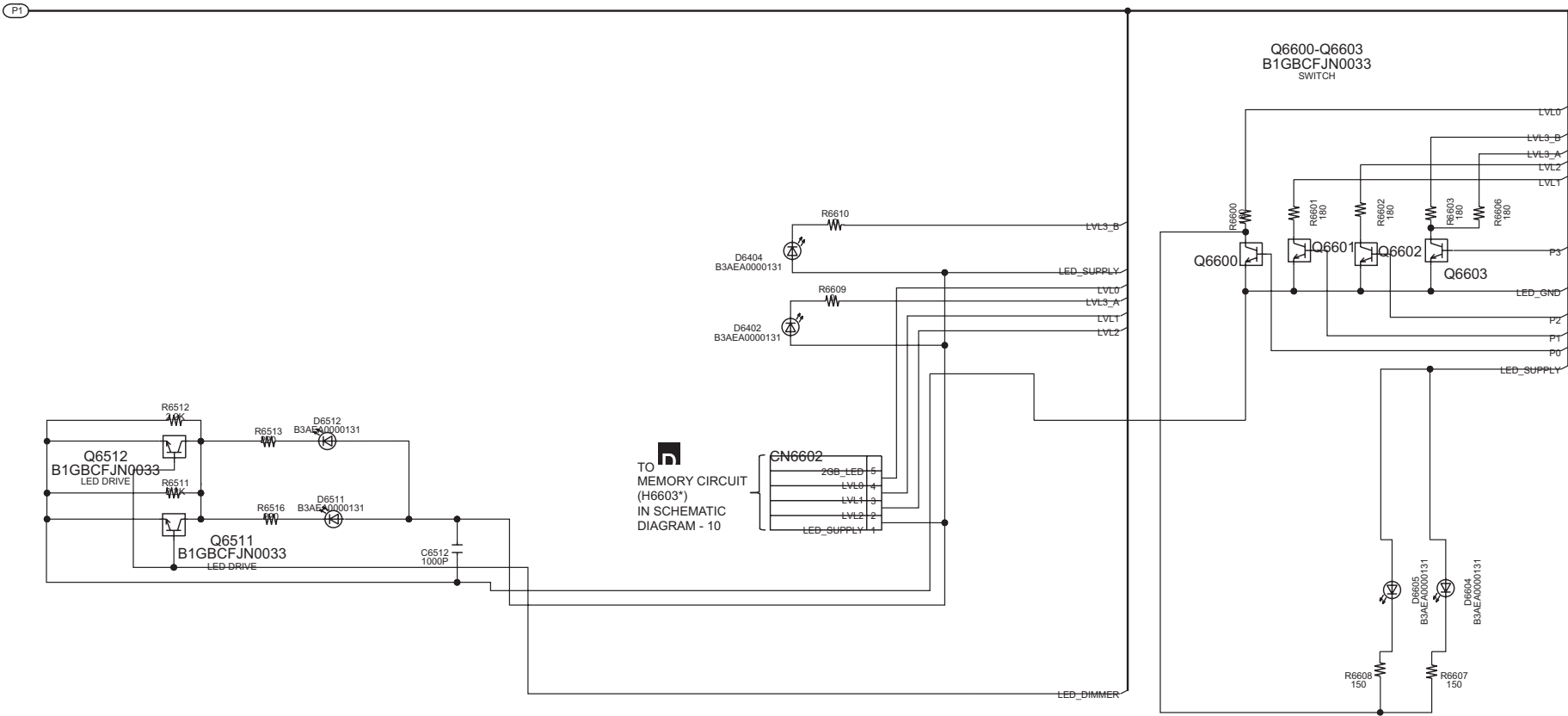
16.8. Panel Circuit (1/2)



16.9. Panel Circuit (2/2)

SCHEMATIC DIAGRAM - 9
G PANEL CIRCUIT

— : +B SIGNAL LINE --- : -B SIGNAL LINE



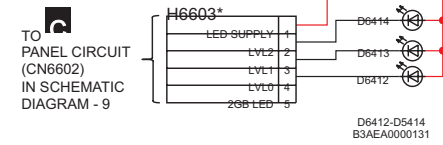
← TO PANEL SECTION (1/2)

16.10. Memory / MPort/Headphone / Mic Circuit

SCHEMATIC DIAGRAM - 10

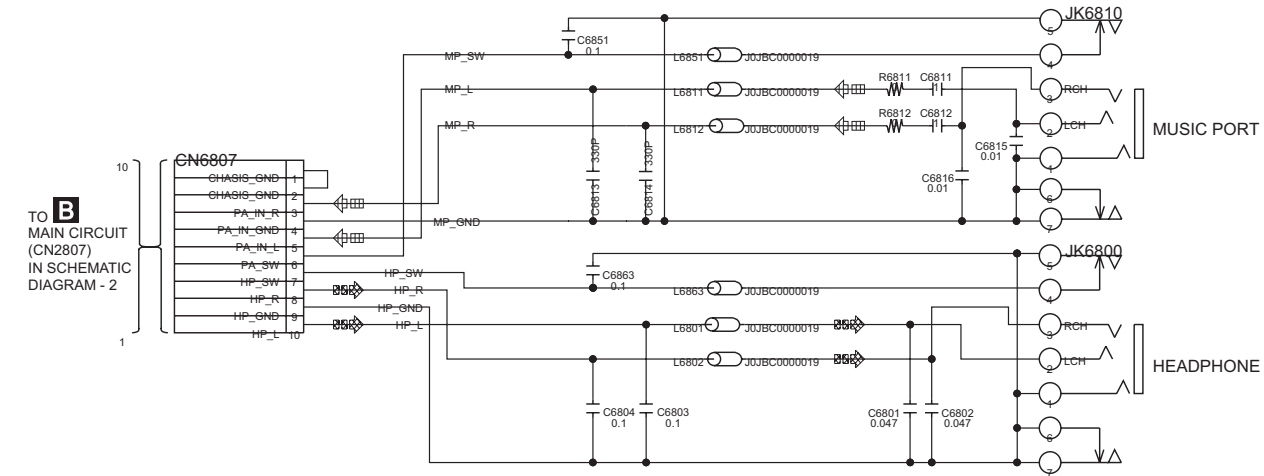
D MEMORY CIRCUIT

: +B SIGNAL LINE



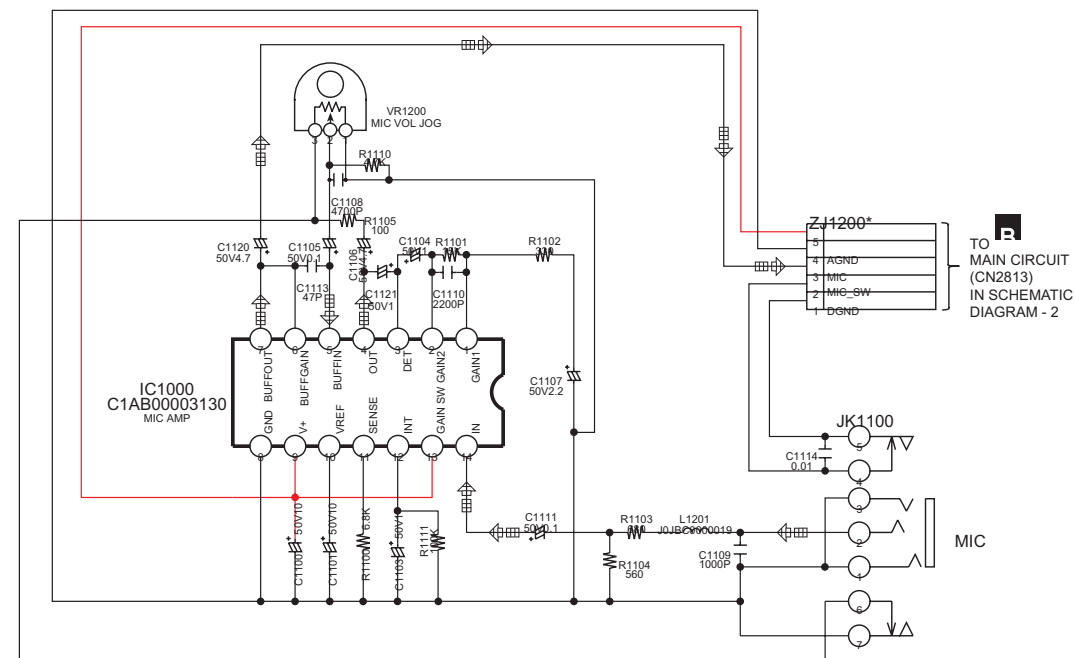
EXPORT/HEADPHONE CIRCUIT

: MUSIC PORT AUDIO INPUT SIGNAL LINE : AUDIO OUTPUT SIGNAL LINE



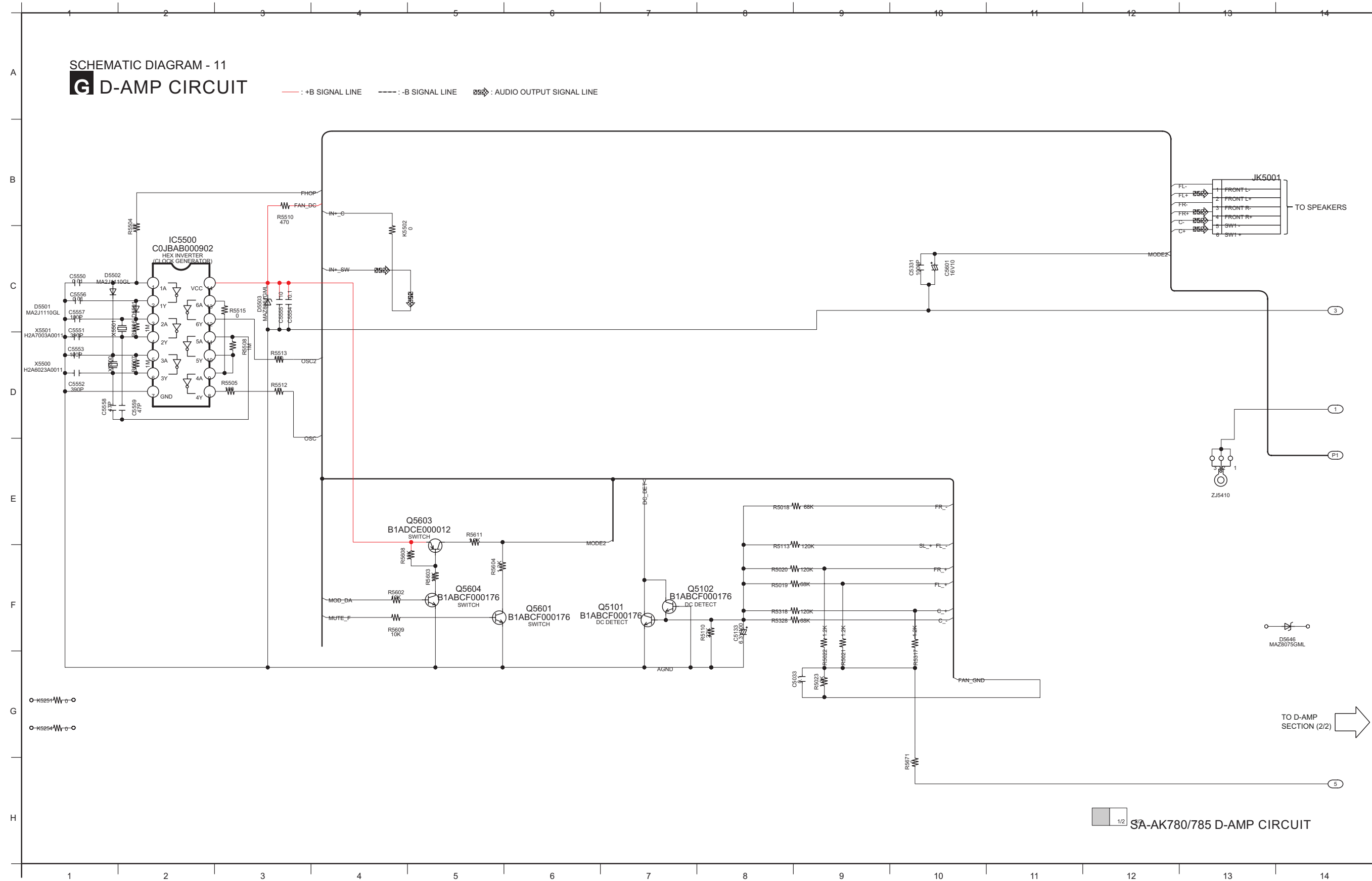
F MIC CIRCUIT

— : +B SIGNAL LINE : MIC AUDIO INPUT SIGNAL LINE



SA-AK780/785 MEMORY / MPORT/HEADPHONE / MIC CIRCUIT

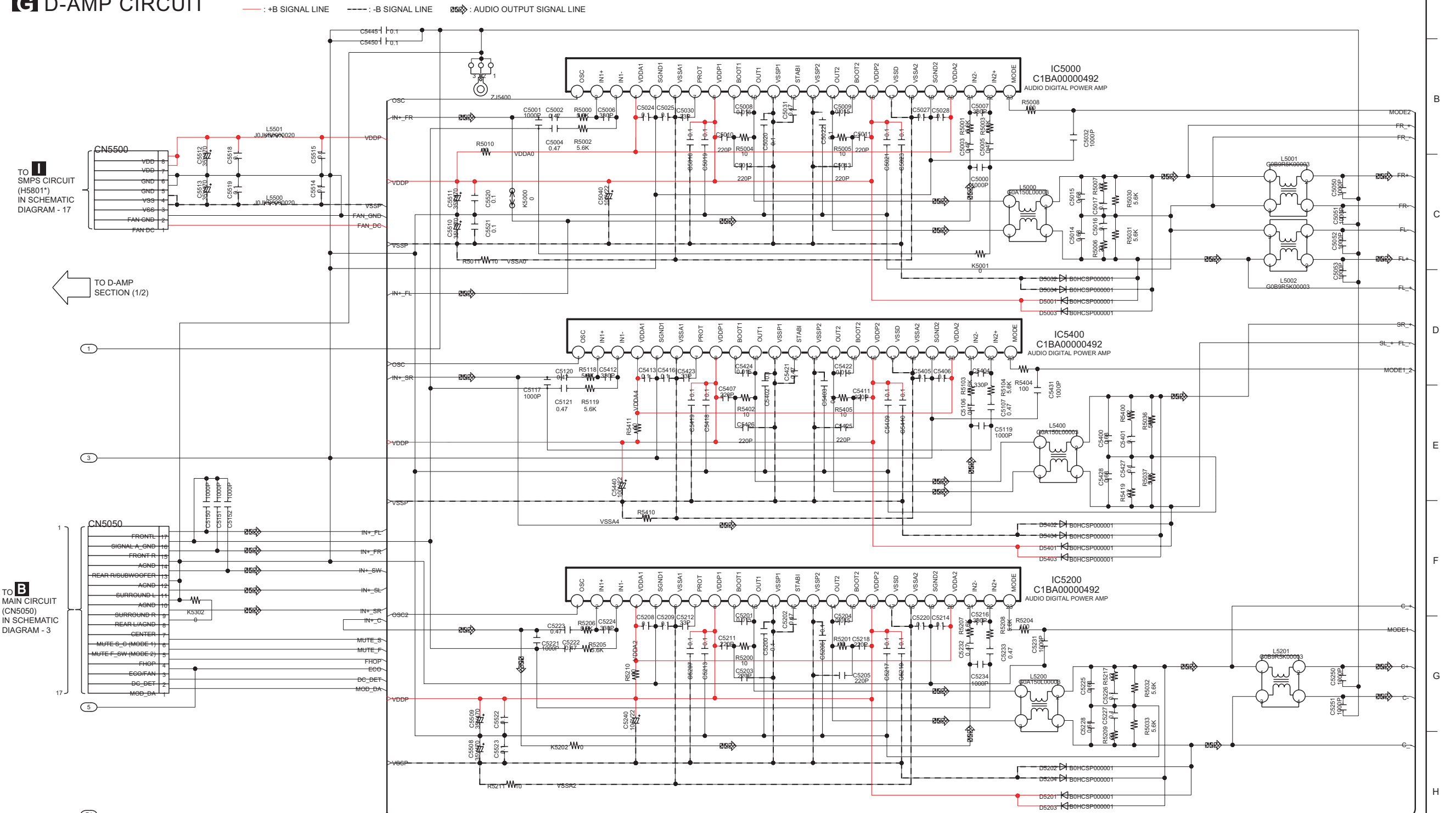
16.11. D-Amp Circuit (1/2)



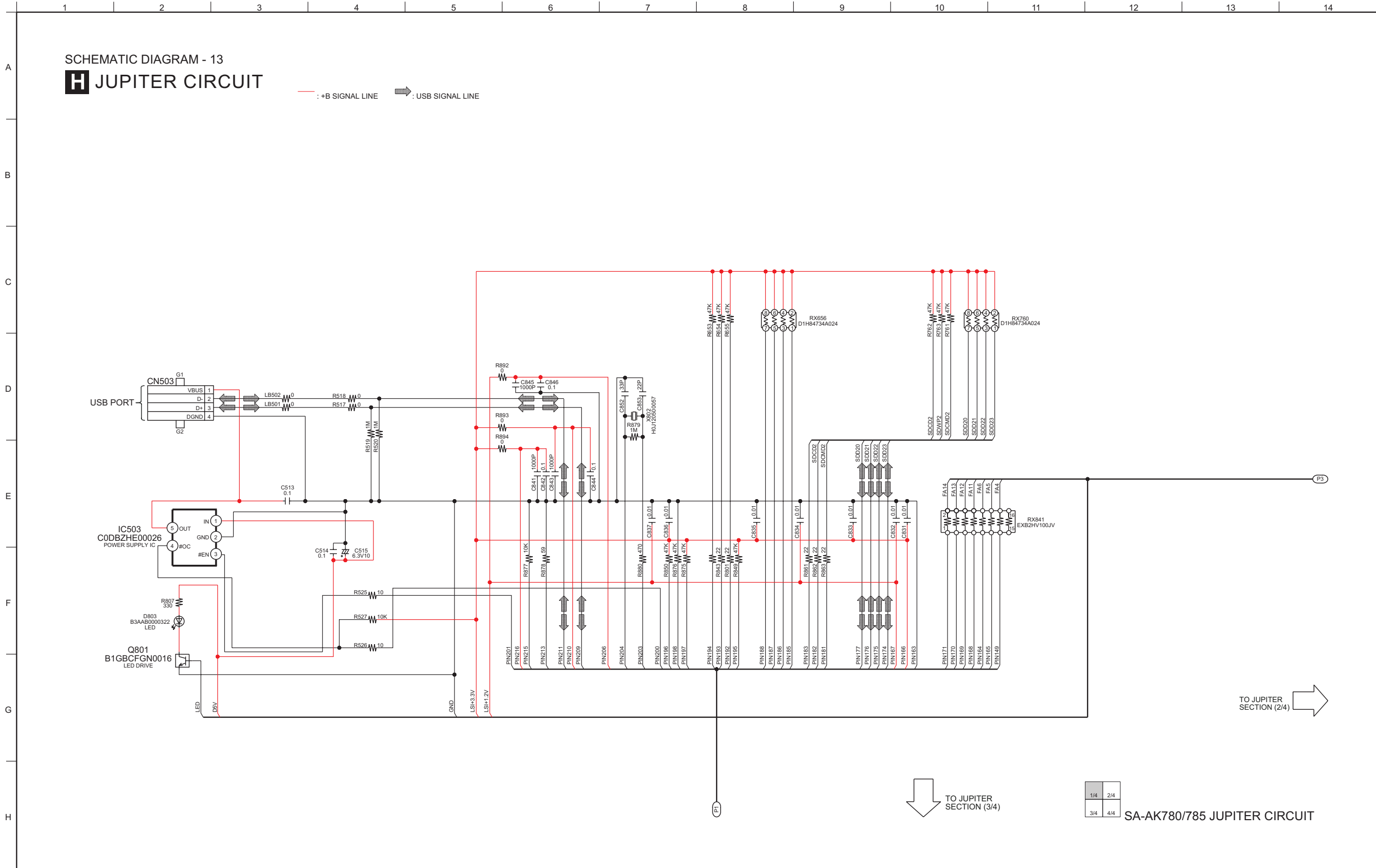
16.12. D-Amp Circuit (2/2)

SCHEMATIC DIAGRAM - 12

G D-AMP CIRCUIT



16.13. Jupiter Circuit (1/4)

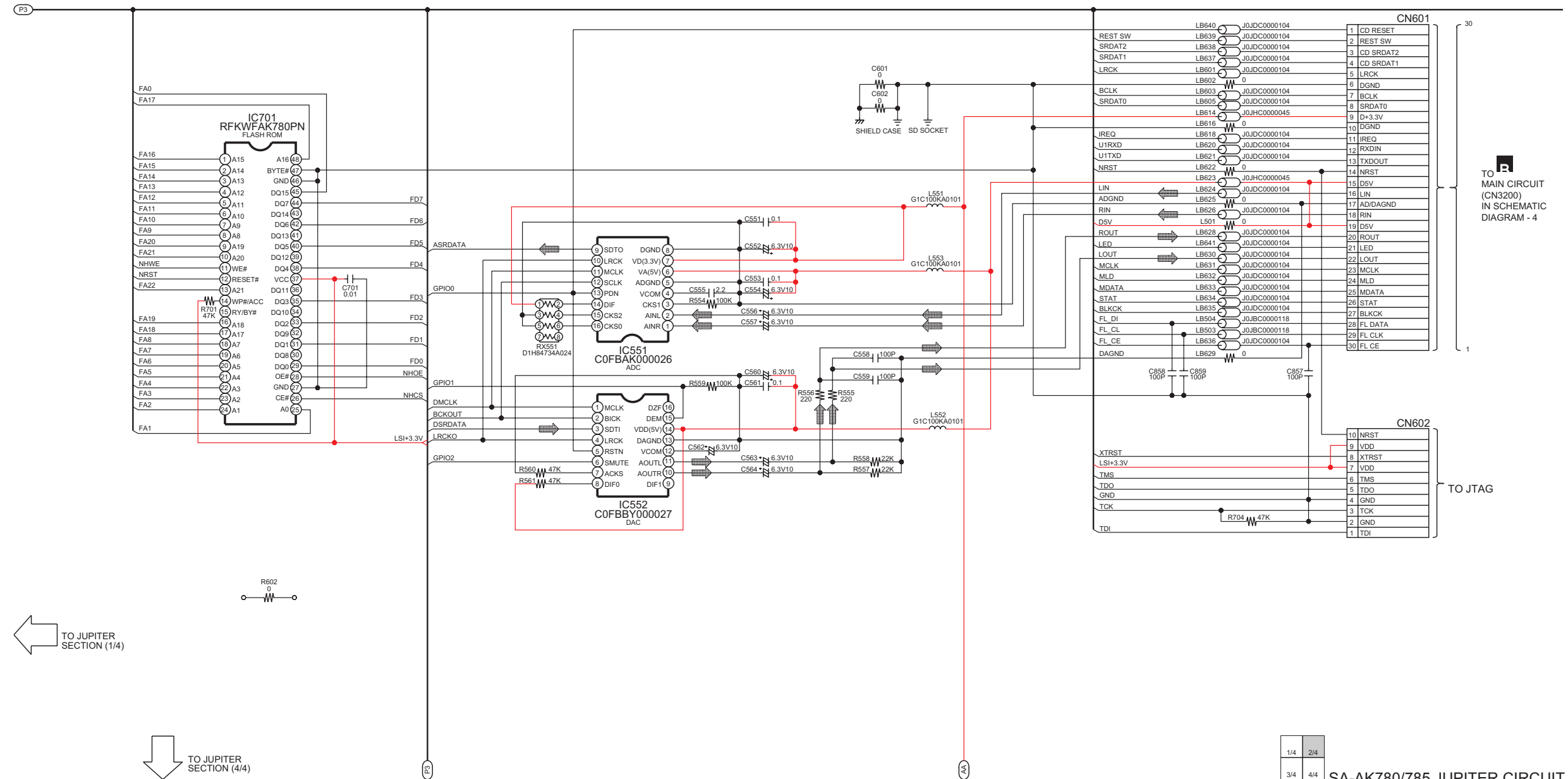


16.14. Jupiter Circuit (2/4)

SCHEMATIC DIAGRAM - 14

H JUPITER CIRCUIT

— : +B SIGNAL LINE  : USB SIGNAL LINE



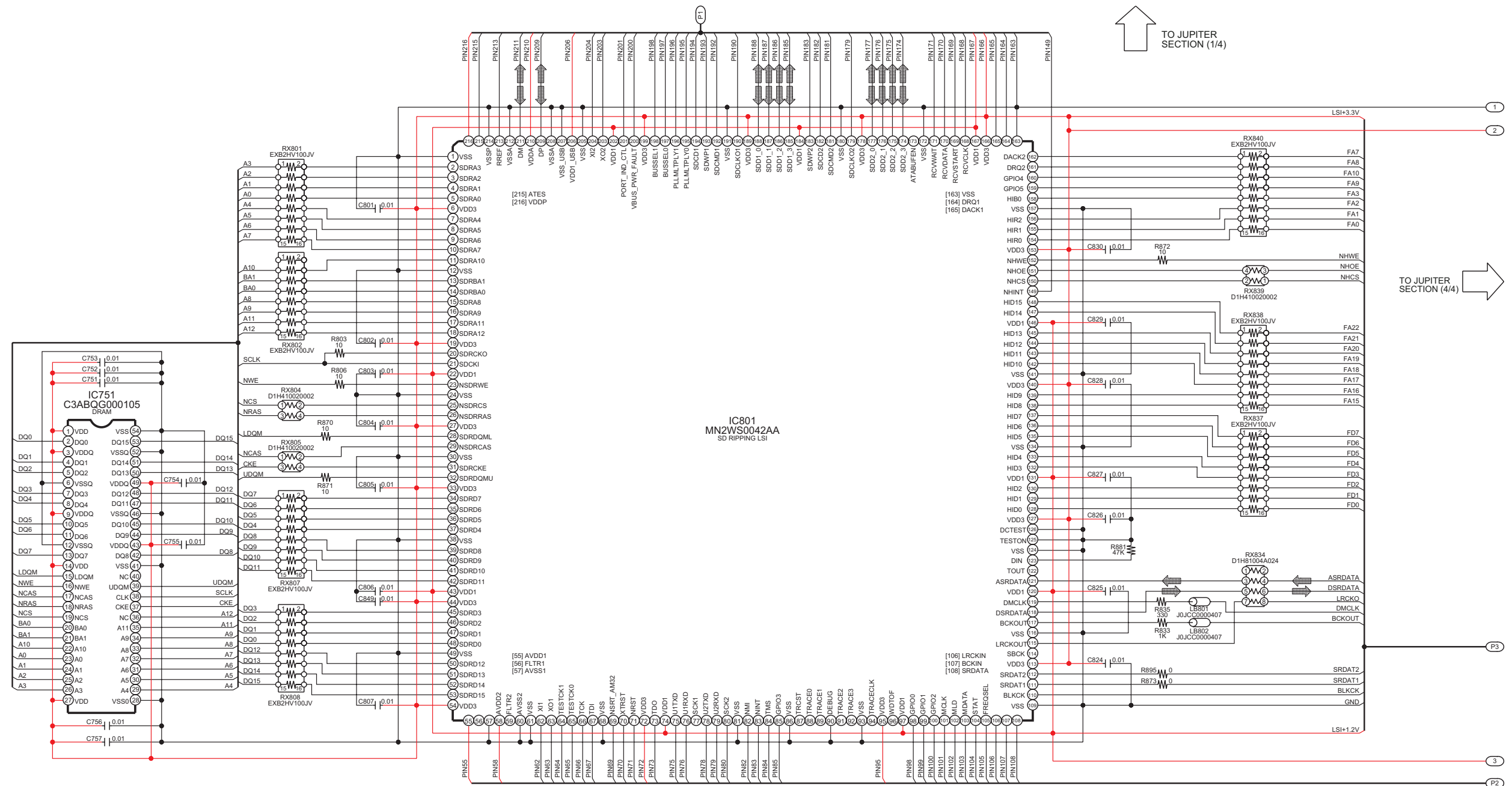
4 SA-AK780/785 JUPITER CIRCUIT

16.15. Jupiter Circuit (3/4)

SCHEMATIC DIAGRAM - 15

H JUPITER CIRCUIT

— : +B SIGNAL LINE : USB SIGNAL LINE



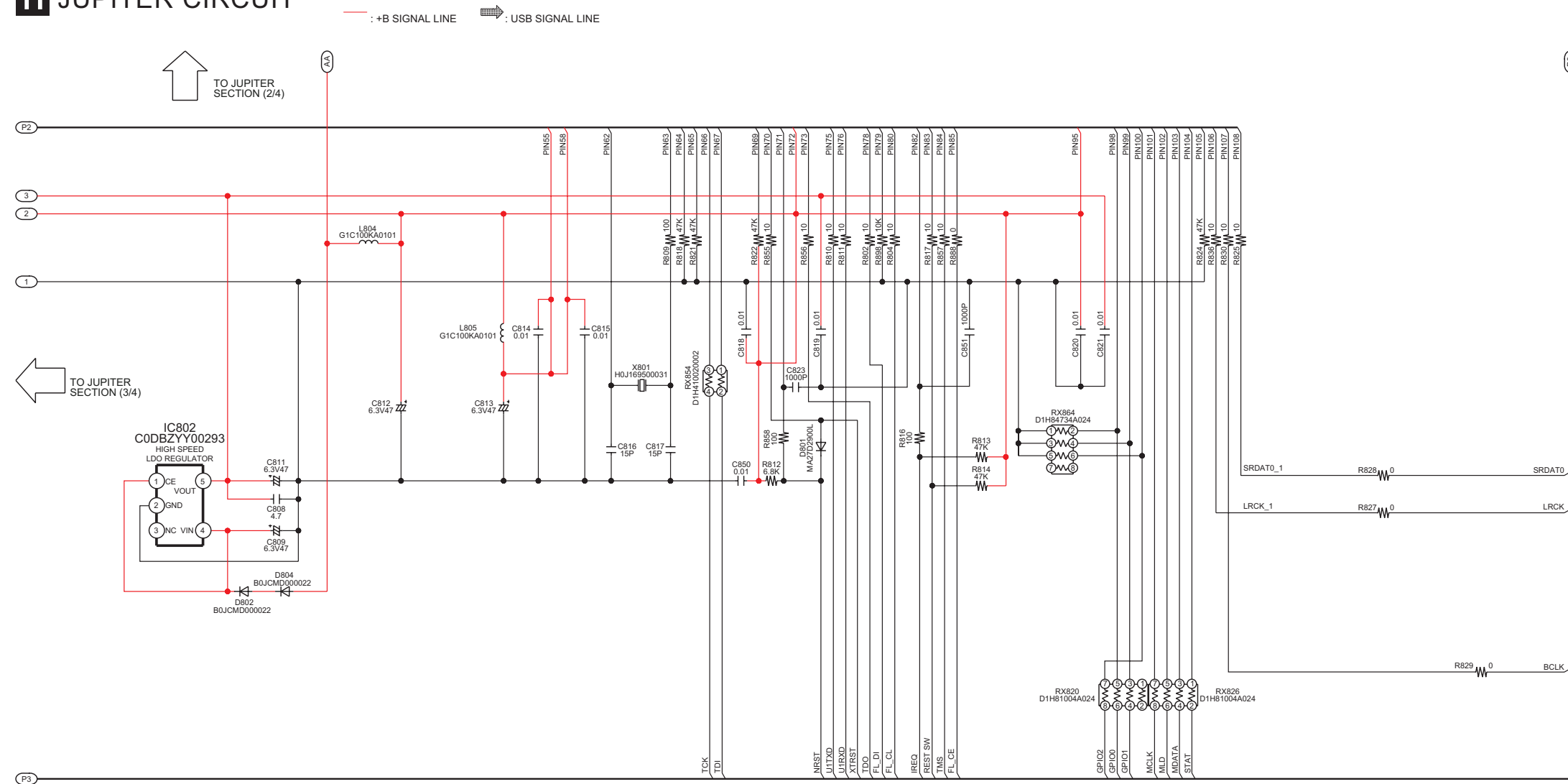
1/4	2/4
3/4	4/4

SA-AK780/785 JUPITER CIRCUIT

16.16. Jupiter Circuit (4/4)

SCHEMATIC DIAGRAM - 16

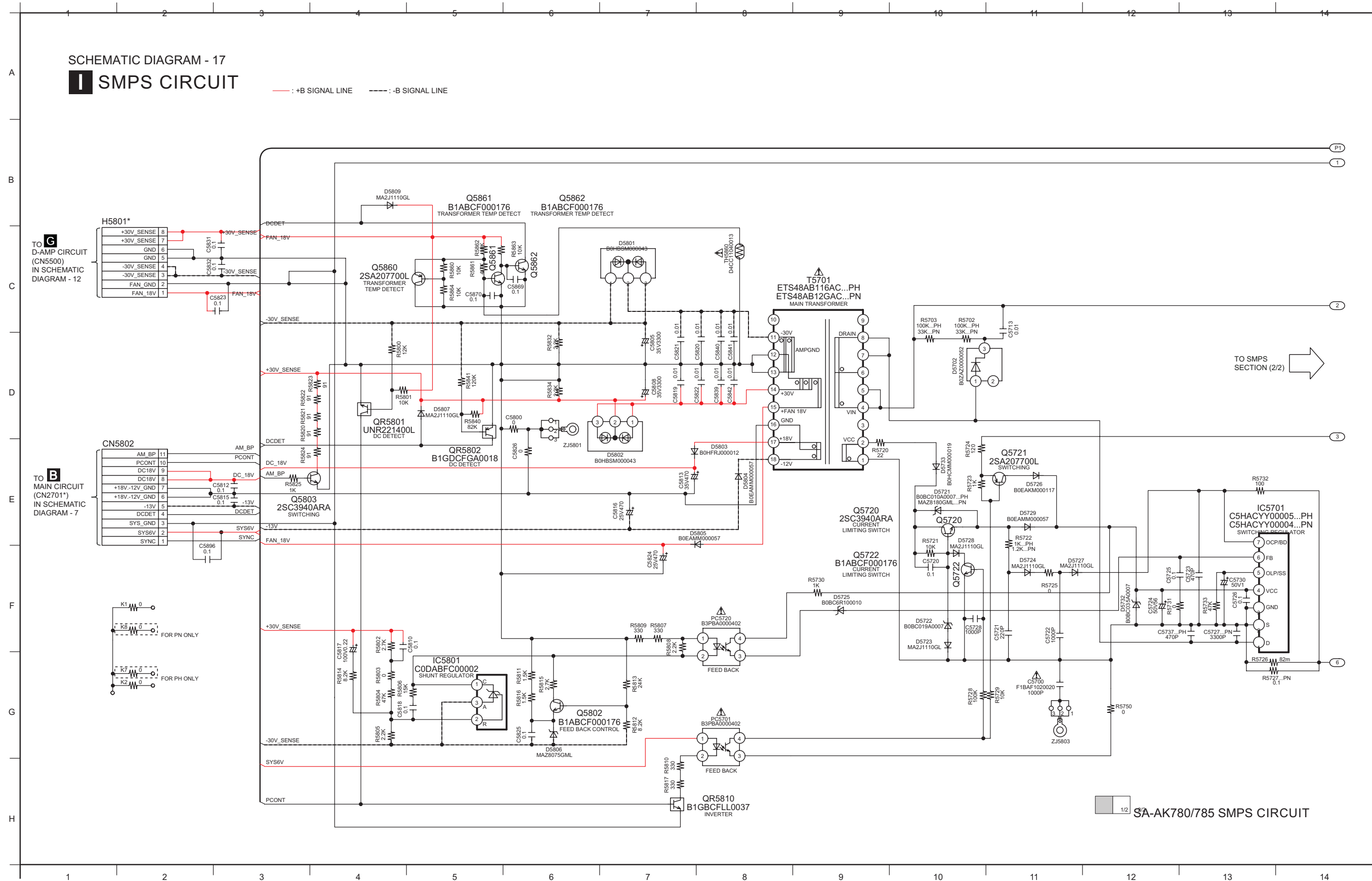
H JUPITER CIRCUIT



$\frac{1}{4}$	$\frac{2}{4}$
$\frac{3}{4}$	$\frac{4}{4}$

SA-AK780/785 JUPITER CIRCUIT

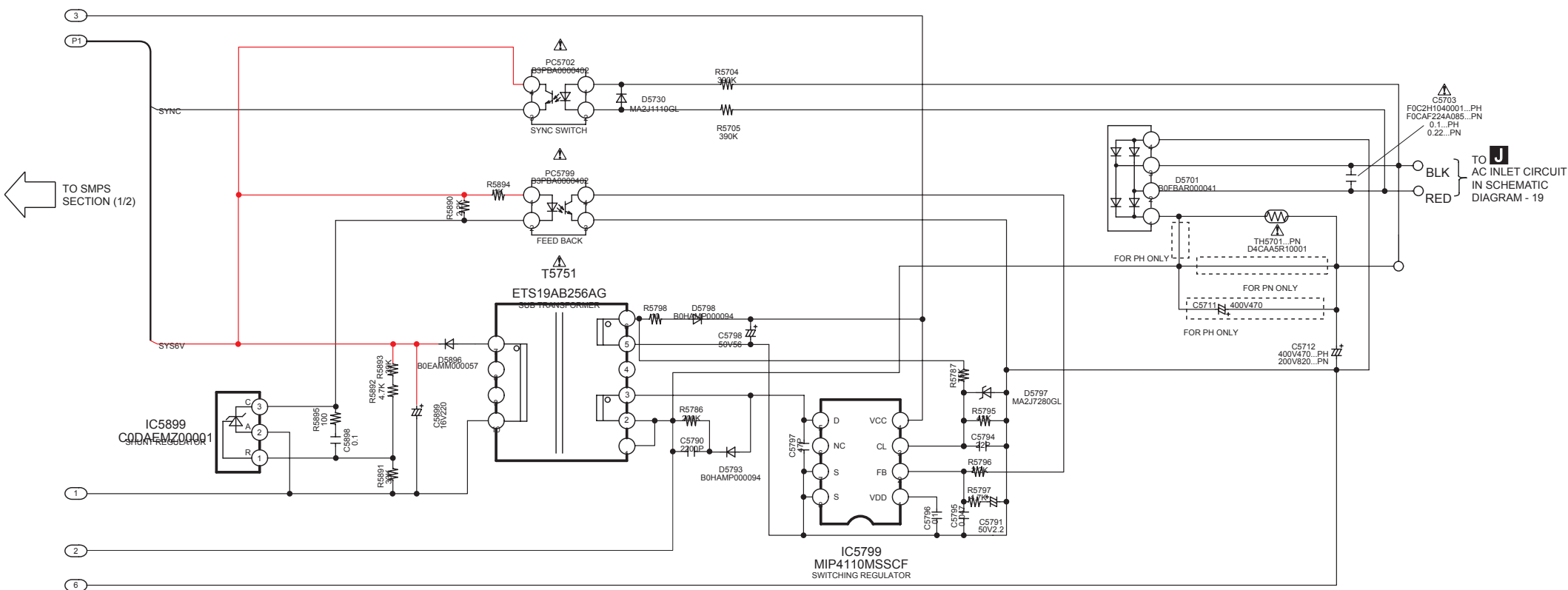
16.17. SMPS Circuit (1/2)



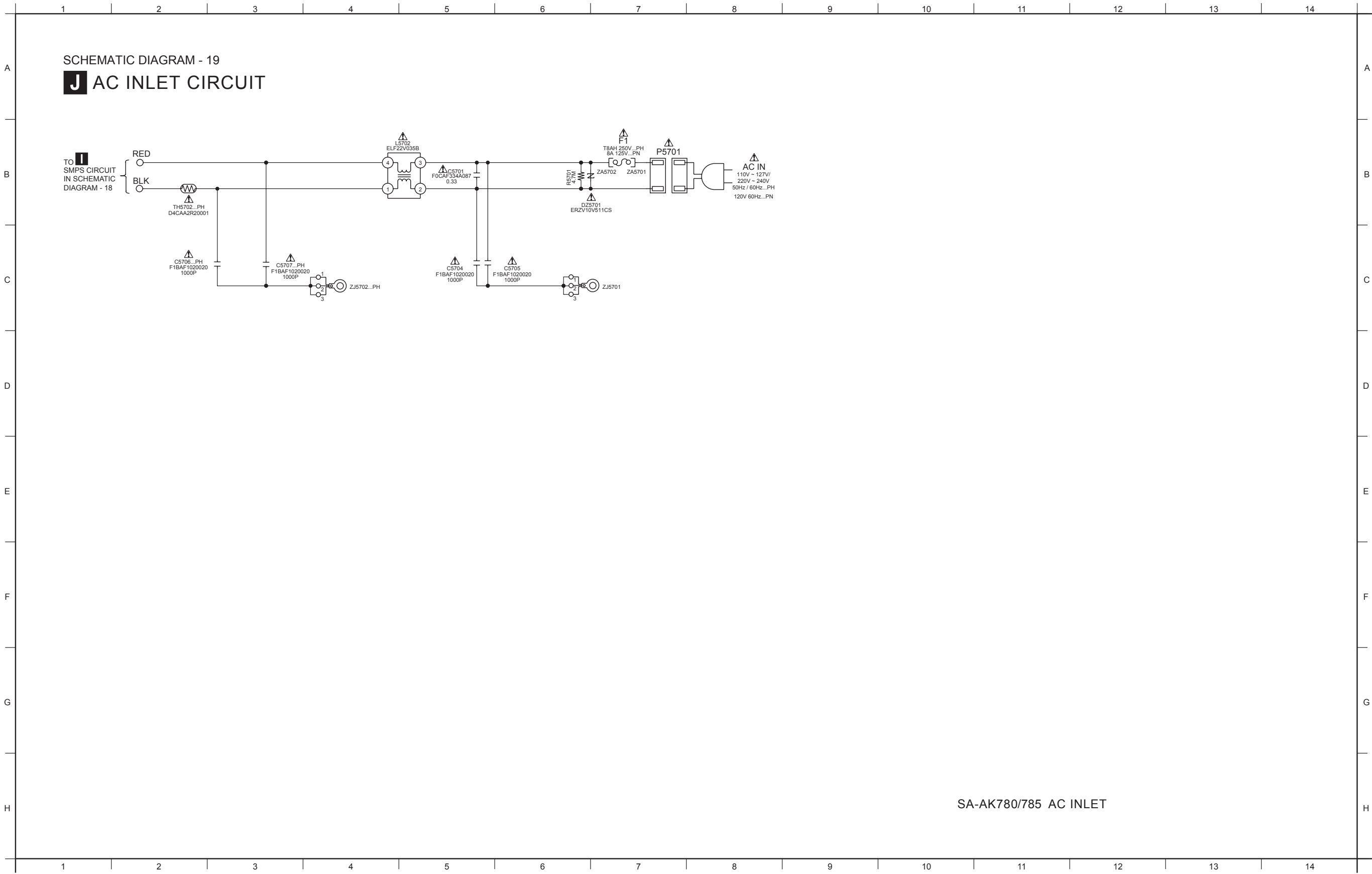
16.18. SMPS Circuit (2/2)

SCHEMATIC DIAGRAM - 18
I SMPS CIRCUIT

— : +B SIGNAL LINE - - - : -B SIGNAL LINE

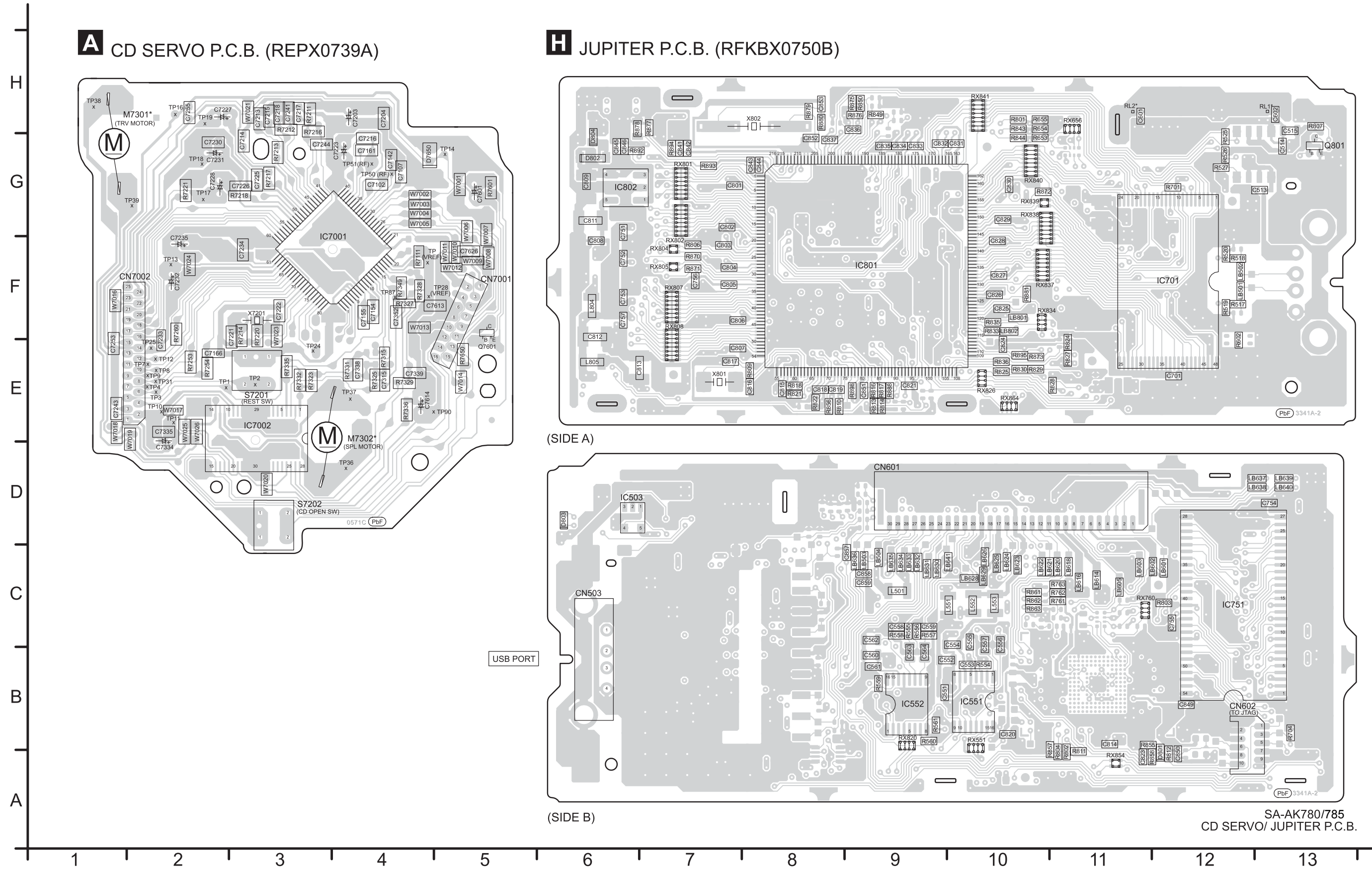


16.19. AC Inlet



17 Printed Circuit Board

17.1. CD Servo / Jupiter P.C.B.



A
B
C
D
E
F
G
H

SA-AK785
MAIN P.C.B.

A vertical scale with labels A, B, C, D, E, F, G, H from bottom to top.

A horizontal number line with arrows at both ends. It is marked with integers from 1 to 10. There are tick marks at every integer, and the numbers 1 through 10 are written below the corresponding tick marks.

Top view of the H6603 module. The module is a rectangular PCB with a grey solder mask. It features a large circular component (likely a lens or sensor) in the center. To the left of the center is a small square component. To the right of the center are three small square components labeled D6412, D6413, and D6414. At the bottom right corner is a small square component labeled D635AC. The top left corner has a label 'H6603' and a small square component. The bottom left corner has a small square component. The bottom right corner has a small square component.

The image shows a complex PCB layout for a portable cassette player. Key components include:

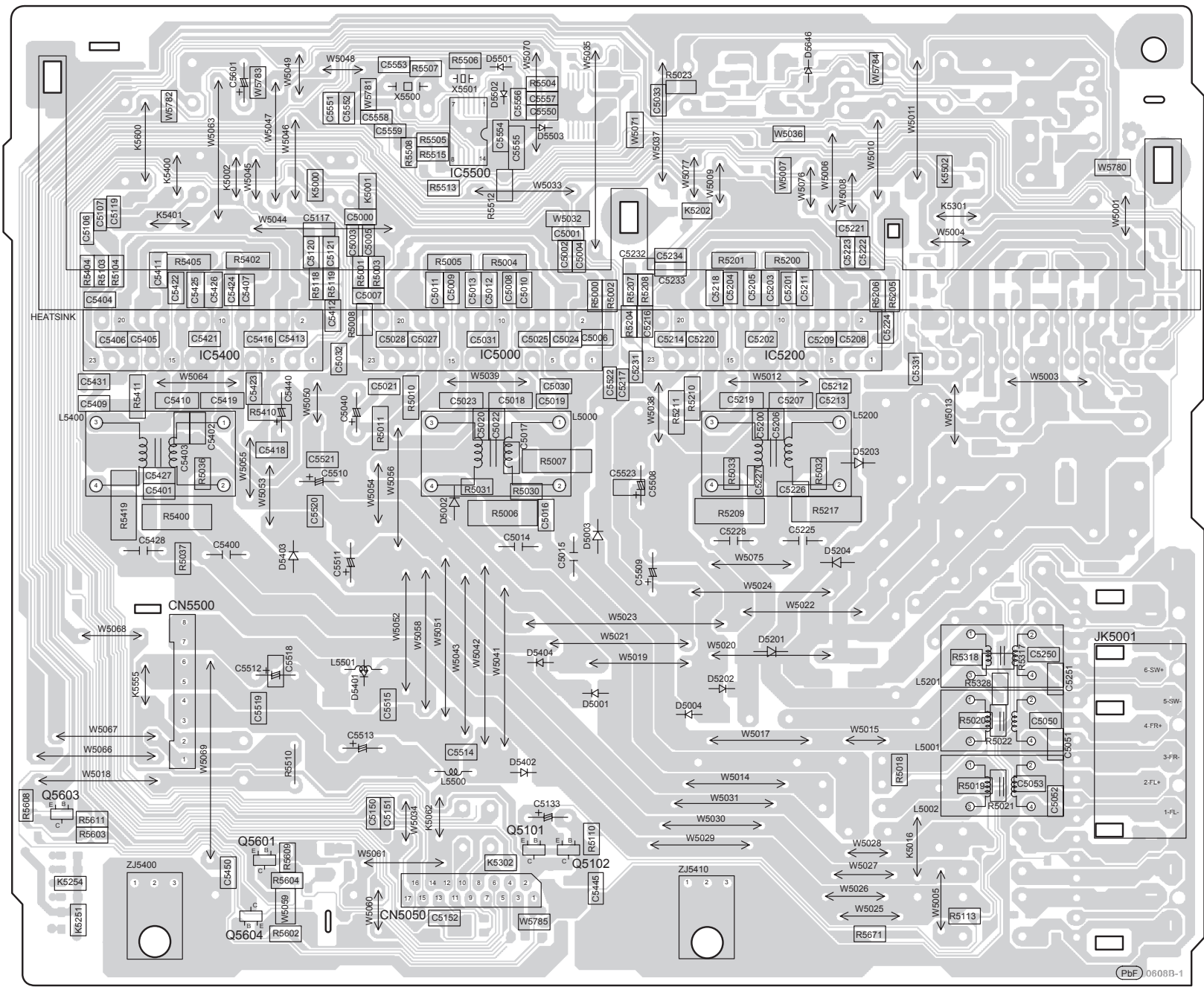
- IC1000**: A central integrated circuit with pins 1-8 labeled.
- IC1100**: A component with pins 1-8 labeled.
- IC1120**: A component with pins 1-8 labeled.
- JK1100**: A component with pins 1-8 labeled.
- ZJ1200**: A component with pins 1-8 labeled.
- VR1200**: A variable resistor component.
- MIC**: A microphone input point.
- MIC VOL**: A microphone volume control point.
- PAF 0631AB**: A component at the bottom of the board.

The layout includes various resistors (R1100, R1101, R1102, R1103, R1104, R1105, R1106, R1107, R1108, R1109, R1110, R1111, R1112, R1113, R1114, R1115, R1116, R1117, R1118, R1119, R1120, R1121, R1122, R1123, R1124, R1125, R1126, R1127, R1128, R1129, R1130, R1131, R1132, R1133, R1134, R1135, R1136, R1137, R1138, R1139, R1140, R1141, R1142, R1143, R1144, R1145, R1146, R1147, R1148, R1149, R1150, R1151, R1152, R1153, R1154, R1155, R1156, R1157, R1158, R1159, R1160, R1161, R1162, R1163, R1164, R1165, R1166, R1167, R1168, R1169, R1170, R1171, R1172, R1173, R1174, R1175, R1176, R1177, R1178, R1179, R1180, R1181, R1182, R1183, R1184, R1185, R1186, R1187, R1188, R1189, R1190, R1191, R1192, R1193, R1194, R1195, R1196, R1197, R1198, R1199, R1200, R1201, R1202, R1203, R1204, R1205, R1206, R1207, R1208, R1209, R1210, R1211, R1212, R1213, R1214, R1215, R1216, R1217, R1218, R1219, R1220, R1221, R1222, R1223, R1224, R1225, R1226, R1227, R1228, R1229, R1230, R1231, R1232, R1233, R1234, R1235, R1236, R1237, R1238, R1239, R1240, R1241, R1242, R1243, R1244, R1245, R1246, R1247, R1248, R1249, R1250, R1251, R1252, R1253, R1254, R1255, R1256, R1257, R1258, R1259, R1260, R1261, R1262, R1263, R1264, R1265, R1266, R1267, R1268, R1269, R1270, R1271, R1272, R1273, R1274, R1275, R1276, R1277, R1278, R1279, R1280, R1281, R1282, R1283, R1284, R1285, R1286, R1287, R1288, R1289, R1290, R1291, R1292, R1293, R1294, R1295, R1296, R1297, R1298, R1299, R1300, R1301, R1302, R1303, R1304, R1305, R1306, R1307, R1308, R1309, R1310, R1311, R1312, R1313, R1314, R1315, R1316, R1317, R1318, R1319, R1320, R1321, R1322, R1323, R1324, R1325, R1326, R1327, R1328, R1329, R1330, R1331, R1332, R1333, R1334, R1335, R1336, R1337, R1338, R1339, R1340, R1341, R1342, R1343, R1344, R1345, R1346, R1347, R1348, R1349, R1350, R1351, R1352, R1353, R1354, R1355, R1356, R1357, R1358, R1359, R1360, R1361, R1362, R1363, R1364, R1365, R1366, R1367, R1368, R1369, R1370, R1371, R1372, R1373, R1374, R1375, R1376, R1377, R1378, R1379, R1380, R1381, R1382, R1383, R1384, R1385, R1386, R1387, R1388, R1389, R1390, R1391, R1392, R1393, R1394, R1395, R1396, R1397, R1398, R1399, R1400, R1401, R1402, R1403, R1404, R1405, R1406, R1407, R1408, R1409, R1410, R1411, R1412, R1413, R1414, R1415, R1416, R1417, R1418, R1419, R1420, R1421, R1422, R1423, R1424, R1425, R1426, R1427, R1428, R1429, R1430, R1431, R1432, R1433, R1434, R1435, R1436, R1437, R1438, R1439, R1440, R1441, R1442, R1443, R1444, R1445, R1446, R1447, R1448, R1449, R1450, R1451, R1452, R1453, R1454, R1455, R1456, R1457, R1458, R1459, R1460, R1461, R1462, R1463, R1464, R1465, R1466, R1467, R1468, R1469, R1470, R1471, R1472, R1473, R1474, R1475, R1476, R1477, R1478, R1479, R1480, R1481, R1482, R1483, R1484, R1485, R1486, R1487, R1488, R1489, R1490, R1491, R1492, R1493, R1494, R1495, R1496, R1497, R1498, R1499, R1500, R1501, R1502, R1503, R1504, R1505, R1506, R1507, R1508, R1509, R1510, R1511, R1512, R1513, R1514, R1515, R1516, R1517, R1518, R1519, R1520, R1521, R1522, R1523, R1524, R1525, R1526, R1527, R1528, R1529, R1530, R1531, R1532, R1533, R1534, R1535, R1536, R1537, R1538, R1539, R1540, R1541, R1542, R1543, R1544, R1545, R1546, R1547, R1548, R1549, R1550, R1551, R1552, R1553, R1554, R1555, R1556, R1557, R1558, R1559, R1560, R1561, R1562, R1563, R1564, R1565, R1566, R1567, R1568, R1569, R1570, R1571, R1572, R1573, R1574, R1575, R1576, R1577, R1578, R1579, R1580, R1581, R1582, R1583, R1584, R1585, R1586, R1587, R1588, R1589, R1590, R1591, R1592, R1593, R1594, R1595, R1596, R1597, R1598, R1599, R1600, R1601, R1602, R1603, R1604, R1605, R1606, R1607, R1608, R1609, R1610, R1611, R1612, R1613, R1614, R1615, R1616, R1617, R1618, R1619, R1620, R1621, R1622, R1623, R1624, R1625, R1626, R1627, R1628, R1629, R1630, R1631, R1632, R1633, R1634, R1635, R1636, R1637, R1638, R1639, R1640, R1641, R1642, R1643, R1644, R1645, R1646, R1647, R1648, R1649, R1650, R1651, R1652, R1653, R1654, R1655, R1656, R1657, R1658, R1659, R1660, R1661, R1662, R1663, R1664, R1665, R1666, R1667, R1668, R1669, R1670, R1671, R1672, R1673, R1674, R1675, R1676, R1677, R1678, R1679, R1680, R1681, R1682, R1683, R1684, R1685, R1686, R1687, R1688, R1689, R1690, R1691, R1692, R1693, R1694, R1695, R1696, R1697, R1698, R1699, R1700, R1701, R1702, R1703, R1704, R1705, R1706, R1707, R1708, R1709, R1710, R1711, R1712, R1713, R1714, R1715, R1716, R1717, R1718, R1719, R1720, R1721, R1722, R1723, R1724, R1725, R1726, R1727

SA-AK780/785
PANEL/ MEMORY/ MPORT/HEADPHONE/ MIC P.C.B.

17.4. D-Amp P.C.B.

G D-AMP P.C.B. (REPM097801A)

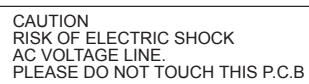


A vertical scale with labels A, B, C, D, E, F, G, H from bottom to top.

1



J



NOTE: " * " REF IS FOR INDICATION ONLY.

SA- AK780/785
SMPS/ AC INLET P.C.B.

18 Terminal Function of ICs

18.1. IC2801 (MN101EF16KXW): IC Microprocessor

Este material deberá ser grabado.

Pin No	Pin Name	I/O	Fucntions
1	SD_CMD	O	Jupiter and CD communication UART(TX)
2	SD_STAT	I	Jupiter and CD communication UART(RX)
3	SD_NRST	O	Jupiter and CD Communication line NRST
4	SD_INT/OCD_SDA	O	Jupiter and CD Communication line interrupt/ Micro P flashing
5	M.Port SW	I	Detection of Mport Jack connectivity . Hi - connect
6	OCD_SCL	O	Flashing of microp communication line
7	HP SW	I	Detection of Headphone Jack connectivity . Hi - connect
8	DEMO	I	Activation of Demo . Preset to demo off
9	REG_A	I	Country Region setting A
10	REG_B	-	N.C.
11	MMOD	I	Flashing of microp communication line
12	XTOUT	O	Resonator Oscillation . 10Mhz
13	XTIN	I	Resonator Oscillation . 10Mhz
14	VSS	-	Ground
15	XI	I	crystal clk Oscillation .32.7khz
16	XO	O	crystal clk Oscillation .32.7khz
17	VDD33	-	3.3V supply
18	VDD18	-	3.3V supply
19	NRST	I	Reset for mircop for programme initialize
20	CR14_Mode_SW	I	CR14 mode detection
21	CR14_Top_SW	I	CR14 Top SW detection
22	CR14_UD_Sensor	I	CR14 UD sensor detection
23	CR14_LO_F	O	CR 14 loader motor forward movement
24	CR14_LO_R	O	CR14 loader motor reverse movement
25	CR14_Close_SW	I	CR14 close sw detection
26	CR14_Home_SW	I	CR14 Home sw detection
27	CR14_Open_SW	I	CR14 Open sw detection
28	CD_OPEN_SW	O	CD Open sw detection
29	CD Loading CCW	O	CD loading counterclockwise
30	REG_C	I	Country Region setting C
31	Ipod TX	-	Not used
32	Ipod RX	-	Not used
33	CD_RESET	O	CD reset pin
34	CD loading CW	O	CD loading clockwise
35	CD REST SW	I	CD rest sw detection
36	EPR_CLK	O	EEPROM communication line
37	VDD18	-	3.3V supply
38	EPR_DAT	O	EEPROM communication line
39	VSS	-	Ground
40	MIC_SW	I	Detection of mic
41	EPR_CS	O	EEPROM communication line
42	Option_PLAY	-	Not used
43	Option_RSKIP	-	Not used
44	option_FSKIP	-	Not used
45	option_stop	-	Not used
46	Option_DET1	-	Not used
47	Option_DET2	-	Not used
48	IPOD_DET	-	Not used
49	ASP_DATA	O	ASP commiunication line

Pin No	Pin Name	I/O	Fucntions
50	ASP_CLK	O	ASP commiunication line
51	DCdet1	I	Detect of DAMP faulty (F61)
52	DCdet2	I	Detect of Power Supply & SMPS faulty (F76)
53	SW-MUTE	O	Muting for subwoofer
54	SW_LED	-	Not used
55	SWJOGA	-	Not used
56	SWJOGB	-	Not used
57	NC	-	Not used
58	MUTE A	O	Muting control
59	SW_LVL1	O	Subwoofer Level control
60	SW_LVL2	O	Subwoofer Level control
61	Option Pwr	-	Not used
62	CRTIMER	I	CR timer pin
63	VSS	-	Ground
64	MOD_DAMP	O	To activate Damp . Active hi
65	FHOP	O	To shift Damp switching freq from interference to AM freq
66	MUTE F	O	To mute Damp for speaker ouput muting
67	MUTES	O	Not used
68	SMPS BP	O	To shift SMPS switching freq from interference to AM freq
69	WMUTE	-	N.C.
70	WDET	-	Not used
71	NC	-	Not used
72	RDS DATA	-	N.C.
73	RDS CLK	-	N.C.
74	USB rec LED	O	to activate LED blinking effect when USB recording
75	Pcont	O	To switch on all power supply.Active Hi
76	RDS_RDY	-	Not used
77	Clip Attn	O	TO level down outoput to reduce distortion. Active Hi
78	TU_STEREO	I	Tuner stereo mode detection line
79	TU_SDA	O	Tuner communication line
80	TU_TUNED	I	Tuner communication line
81	TU_CLK	O	Tuner communication line
82	REG_D	I	Country Region setting D
83	M.FUNC.LED	O	Memory LED light up when reading. Active Hi
84	M.REC.LED	O	Memort rec LED light up when recording to Memory. Active Hi
85	Sync/Halt	I	Pulse wave from SMPS to Detect of AC plug in or out
86	RMT	I	Remote controller detection communication line
87	BASS JOG2	I	Detection of basss jog
88	BASS JOG1	I	Detection of basss jog
89	VDD	-	3.3V supply
90	LED dimmer	O	Dim down the LED when dimmer on . Active Lo
91	VSS	-	Ground
92	Level meter	AD	To detect signal level for LED light up and light off
93	Clip cont	AD	To detect signal and distortion by level adjustment
94	Halt_sense	AD	Not used
95	Rotary SKIP	AD	TO detect rotary pulse for track search

Pin No	Pin Name	I/O	Fucntions
96	Vol jog	AD	To detect vol jog pulses for volume control
97	Key3	AD	manual EQ/ CD/ FM-AM/ Mport-Aux /Memory/USB button detect
98	Key2	AD	tray Open_close/ change/CD1/CD2/CD/3/CD4/CD5/Stop button detect
99	Key1	AD	Power/USB Rec/Memory rec/Subwoofer/ Dbass button detect
100	VREF+	-	3.3V supply

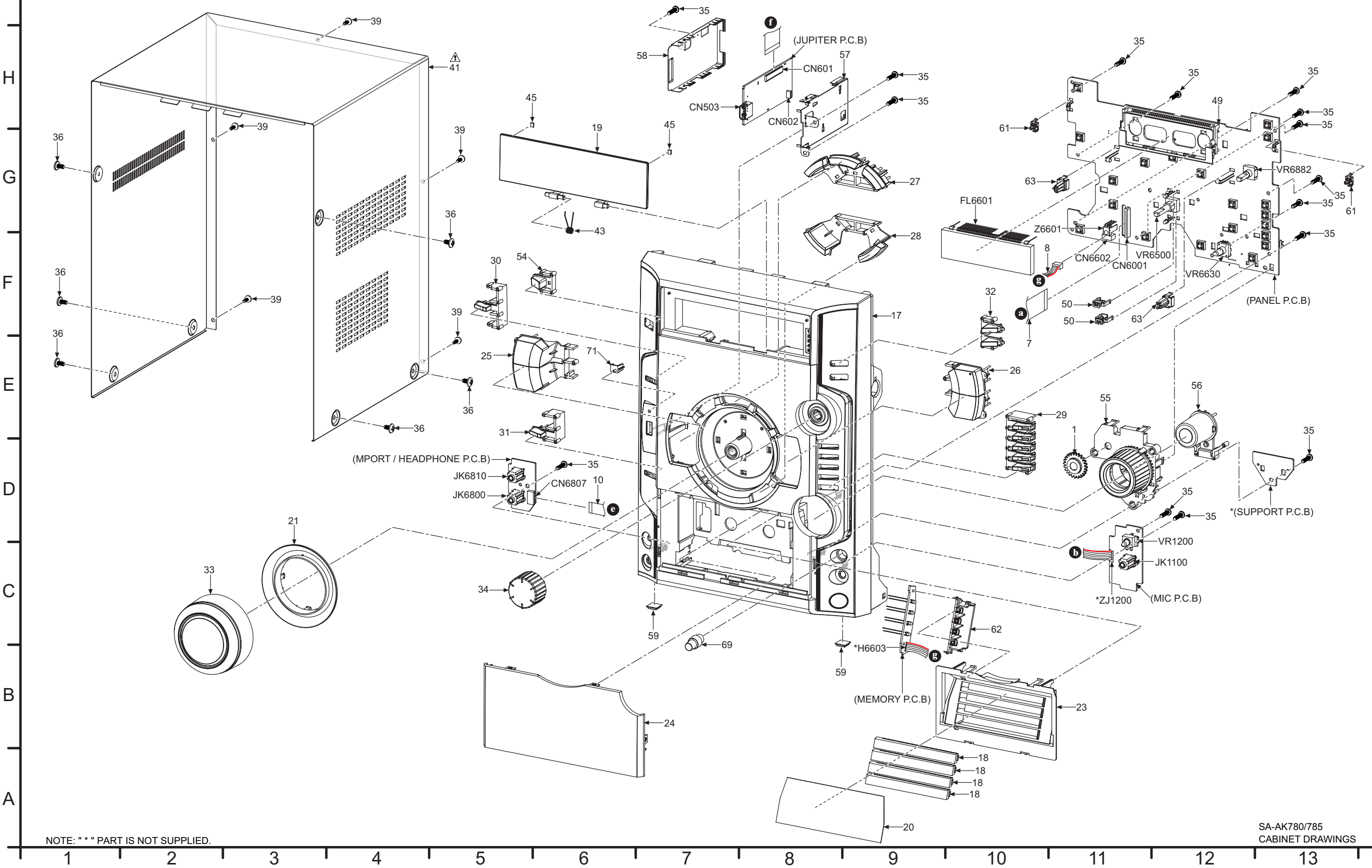
18.2. IC6601(C0HBB0000057): IC FL Driver

Pin No.	Terminal Name	I/O	Function
1	P0	O	No Connection
2	P1	-	No Connection
3	P2	-	No Connection
4	P3	-	No Connection
5	OSC	I	Oscillator Input
6	NC	-	No Connection
7	DIN	I	Data Input
8	CLK	I	Clock Input
9	STB	I	Serial Interface Strobe
10	K1	-	Key Data Input 1 (No Connection)
11	K2	-	Key Data Input 2 (No Connection)
12	VSS	-	GND
13	VDD	-	Power Supply (+5V)
14	S1	O	Segment Output 18
15	S2	O	Segment Output 17
16	S3	O	Segment Output 16
17	S4	O	Segment Output 15
18	S5	O	Segment Output 14
19	S6	O	Segment Output 13
20	S7	O	Segment Output 12
21	S8	O	Segment Output 11
22	S9	O	Segment Output 10
23	S10	O	Segment Output 9
24	S11	O	Segment Output 8
25	S12	O	Segment Output 7
26	S13	O	Segment Output 6
27	S14	O	Segment Output 5
28	S15	O	Segment Output 4
29	S16	O	Segment Output 3
30	VEE	-	Voltage Supply
31	G12	O	Segment Output 2
32	G11	O	Segment Output 1
33	G10	O	Grid Segment Output 1
34	G9	O	Grid Segment Output 2
35	G8	O	Grid Segment Output 3
36	G7	O	Grid Segment Output 4
37	G6	O	Grid Segment Output5
38	G5	O	Grid Segment Output 6
39	G4	O	Grid Segment Output7
40	G3	O	Grid Segment Output 8
41	G2	O	Grid Segment Output 9
42	G1	O	Grid Segment Output 10
43	VDD	-	Voltage Supply (+5V)
44	VSS	-	GND

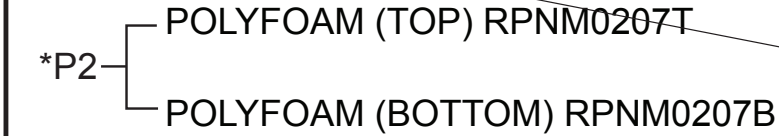
19 Exploded View and Replacement Parts List

19.1. Exploded View and Mechanical Replacement Parts List

19.1.1. Cabinet Parts Location



A
B
C
D
E
F
G
H

SC-AK785
PACKAGING DRAWINGS

19.1.3. Mechanical Repacement Parts List

Important Safety Notice

Components identified by  mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

RTL (Retention Time Limited)

Note: The marking (RTL) indicates that the Retention Time is Limited for this item.

After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

Note:

- When replacing any of these components, be sure to use only manufacturer's specified parts shown in the replacement part list.
- The parenthesized indications on the Remarks column specify the destination & product color (Refer to the cover page for the information).
- Parts without these indications shall be used for all areas.
- This product uses a laser diode. Refer to "Precaution of Laser Diode".
- All parts mentioned are supplied by PAVCSG unless indicated likewise.
- Parts mentioned [SPG] in the Remarks column are supplied by PAVC-CSG.
- Reference for O/I book languages are as follows:

Ar:	Arabic	Du:	Dutch	It:	Italian	Sp:	Spanish
Cf:	Canadian French	En:	English	Ko:	Korean	S:	Swedish
Cz:	Czech	Fr:	French	Po:	Polish	Co:	Traditional Chinese
Da:	Danish	Ge:	German	Ru:	Russian	Cn:	Simplified Chinese
Pe:	Persian	Ur:	Ukraine	Pr:	Portuguese		

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			CABINET AND CHASSIS		
	1	RDGX0040A	VOLUME GEAR	1	
	2	REEX0881	17P FFC (MAIN-DAMP)	1	
	3	REEX0999	25P FFC (MAIN-CD)	1	
	4	REEX0904-J	11P FFC (OPU-MAIN)	1	
	5	REXX0680	11P WIRE (MAIN-SMPS)	1	
	7	REEX0971	27P FFC (MAIN-PANEL)	1	
	8	REXX0756	5P WIRE (SUB PANEL-MEMORY)	1	
	9	REXX0780	5P WIRE (MAIN-MIC)	1	
	10	REEX0987	8P FFC (MPORT-MAIN)	1	
	11	REEX0998	30P FFC (MAIN-JUPITER)	1	
	12	REXX0683-1	8P WIRE (SMPS-DAMP)	1	
	13	REXX0684-1	BLACK WIRE (AC INLET-SMPS)	1	
	14	REXX0685-1	RED WIRE (AC INLET-SMPS)	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	16	L6FALEPH0023	FAN UNIT ASS'Y	1	
	17	RGPX0368-KLD	FRONT PANEL ASS'Y	1	
	18	RGLX0180-QL	MEMORY/USB LIGHT BAR	4	
	19	RGKX0506-KLE	CD LID	1	
	20	RGWX0117A-K1	MEMORY/USB LIGHT FILTER	1	
	21	RGLX0174-QLA	VOLUME LIGHT PIECE	1	
	22	RGRX0070R-AL	REAR PANEL	1	
	23	RMNX0315-KL	MEMORY/USB LIGHT HOLDER	1	
	24	RKWX0295-QLA	DECK COVER	1	
	25	RGUX0791A-SL	MAIN FUNCTION BUTTON L	1	
	26	RGUX0792-SL	MAIN FUNCTION BUTTON R	1	
	27	RGUX0793-SLA	FUNCTION BUTTON TOP	1	
	28	RGUX0794-SLB	FUNCTION BUTTON BOTTOM	1	
	29	RGUX0795-KLB	5 CD BUTTON	1	
	30	RGUX0796-KLB	RECORD BUTTON	1	
	31	RGUX0797-KLC	CASSETTE EJECT BUTTON	1	
	32	RGUX0798-KLA	CD CHANGE BUTTON	1	
	33	RGWX0112-S1	VOLUME KNOB	1	
	34	RGWX0113-S	SKIP KNOB	1	
	35	RHD26046-L	SCREW	15	
	36	RHD30007-K2J	SCREW	6	
	37	RHD30070	SCREW	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	38	RHD30111-31	SCREW	14	
	39	RHD30119-S	SCREW	15	
	40	RKA0072-KJ	LEG CUSHION	2	
⚠	41	RKMX0144Z-KL	GAB MET S/DOLBLA	1	
	42	RMAX0333-2	CHASSIS SUPPORT	2	
	43	RMBX0091	CD LID OPEN SPRING	1	
	44	RMC0465	TR SPRING	2	
	45	RMGX0033	CUSHION RUBBER	2	
	46	RMKX0148-L2	BOTTOM CHASSIS	1	
	47	RMKX0149-L1	INNER CHASSIS	1	
	48	RMKX0151-M	CD CHASSIS	1	
	49	RMNV0079-1	FL HOLDER	1	
	50	RMNX0151	LED HOLDER	2	
	51	XTB3+10JFJ	SCREW	6	
	52	XTW3+12TFJ	SCREW	2	
	53	XTW3+8TFJ	SCREW	2	
	54	RGUX0790-KLA	POWER BUTTON	1	
	55	RYPX0393-S1	DYNAMIC BASS KNOB UNIT	1	
	56	RYPX0321G-S1	DYNAMIC BASS BUTTON UNIT	1	
	57	RSCX0207A	SD SHIELD PLATE A	1	
	58	RSCX0208A	SD SHIELD PLATE B	1	
	59	RKAX0042-K	LEG CUSHION	2	
	61	RMNX0297	LED HOLDER (SIDE LIGHT BAR)	2	
	62	RMNX0315-K	MEMORY/USB LED HOLDER	1	
	63	RMNX0316	LED HOLDER (CENTRE LIGHT PIECE)	2	
	65	RMQX0318-K2	FAN COVER	1	
	66	RMVX0126	HOLE COVER	2	
	68	RMZX0039	IC INSULATOR	1	
	69	RGWX0056-1K1	MIC VOL KNOB	1	
	70	XTW3+20TFJ	SCREW	1	
	71	RGLX0179-Q	USB RECORD LIGHT PIECE	1	
	72	J3CCBB000010	TUNER PACK	1	
			TRAVERSE DECK		
⚠		RD-DAC060-PX	LECTOR OPTICO CD	1	
⚠	340	RAEX0190A-V	TRAVERSE ASS'Y (W/O CD SERVO P.C.B)	1	(RTL)
	347	XTN2+6GFJ	SCREW	3	
			PACKING MATERIALS		
	P1	RPGM0250	PACKING CASE	1	
	P2	RPNM0207B/T	POLYFOAM	1	
	P3	RPFX0198	MIRAMAT SHEET	1	
			ACCESSORIES		
	A1	N2QAYB000425	REMOTE CONTROL	1	
		UM-3DPA	BATTERIES	2	
⚠	A2	SJA168-1A	AC CORD	1	
⚠	A3	RQTM0171	O/I BOOK (Sp)	1	
	A4	RSAX0002	FM INDOOR ANTENNA	1	
	A5	N1DY000003	AM LOOP ANTENNA	1	

19.2. Electrical Replacement Part List

Important Safety Notice

Components identified by  mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

RTL (Retention Time Limited)

Note: The marking (RTL) indicates that the Retention Time is Limited for this item.

After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

Note:

- When replacing any of these components, be sure to use only manufacturer's specified parts shown in the replacement part list.
- The parenthesized indications on the Remarks column specify the destination & product color (Refer to the cover page for the information).
- Parts without these indications shall be used for all areas.
- This product uses a laser diode. Refer to "Precaution of Laser Diode".
- Capacitor value are in microfarads (uF) unless specified otherwise, P=Pico-farads (pF), F=Farads.
- Resistance values are in ohms, unless specified otherwise, 1K=1000 (OHM).
- All parts mentioned are supplied by PAVCSG unless indicated likewise.
- Parts mentioned [SPG] in the Remarks column are supplied by PAVC-CSG.

Safety	Ref. No.	Part No.	Part Name and Description
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Printed circuit boards

Safety	Ref. No.	Part No.	Part Name & Description
		RJBX0562T-2	SMPS AK280/580/780
		1 RJBX0608B-2	PCB D-AMP AK'S 2009
		1 RJBX0635A	PANEL AK980
		1 RJBX0631A	AIN AK980
		RAIM097800A	CONJUNTO SMPS AK780
		RAIM097801A	CONJUNTO D-AMP AK780
		RAIM097803A	CONJUNTO PANEL AK780
		RAIM097852A	CONJUNTO MAIN AK785
		REAM097852A	CONJUNTO MAIN SMT AK785
		REAM097800A	CONJUNTO SMPS SMT AK780
		REAM097801A	CONJUNTO D-AMP SMT A780
		REAM097803A	CONJUNTO PANEL SMT AK780
		RENM097803A	CONJUNTO PANEL RADIAL AK780
		RENM097803AZ	CONJUNTO PANEL AXIAL AK780
		RENM097803AJ	CONJUNTO PANEL JUMPER AK780
		RENM097852A	CONJUNTO MAIN RADIAL AK785
		RENM097852AZ	CONJUNTO MAIN AXIAL AK785
		RENM097852AJ	CONJUNTO MAIN JUMPER AK785
		RENM097800A	CONJUNTO SMPS RADIAL AK780
		RENM097800AZ	CONJUNTO SMPS AXIAL AK780
		RENM097800AJ	CONJUNTO SMPS JUMPER AK780
		RENM097801A	CONJUNTO D-AMP RADIAL AK780
		RENM097801AZ	CONJUNTO D-AMP AXIAL AK780
		RENM097801AJ	CONJUNTO D-AMP JUMPER AK780
		REPM097803A	CONJUNTO PANEL MANUAL AK780
		REPM097852A	CONJUNTO MAIN MANUAL AK785
		REPM097800A	CONJUNTO SMPS MANUAL AK780
		REPM097801A	CONJUNTO D-AMP MANUAL AK780

Integrated circuits

Safety	Ref. No.	Part No.	Part Name & Description
	IC5701	C5HACY00004	CIRCUITO INTEGRADO
	IC5799	MIP4110MSSCF	Intelligent power device
	IC5899	C0DAEMZ00001	CIRCUITO INTEGRADO
	IC5801	C0DABFC00002	CIRCUITO INTEGRADO
	IC5400	C1BA00000492	D-AMP IC
	IC5200	C1BA00000492	D-AMP IC
	IC5000	C1BA00000492	D-AMP IC
	IC5500	C0JBAB0000902	LOGIC IC
	IC6601	C0HBB0000057	FL DRIVER IC
	IC2701	C0DAAYG00001	IC supply
	IC2761	C0CAAKG00046	IC REGULADOR
	IC2804	C0AABB000125	OP AMP IC
	IC2741	C0DBGYY00089	IC
	IC2200	C3EBFY000006	EEPROM
	IC2803	C1AB00003093	ASP
	IC2801	MN101EF16KXW	IC MICROP VE
	IC2810	C0ABBB000230	CIRCUITO INTEGRADO
	IC2121	C0ABBB000230	CIRCUITO INTEGRADO
	IC1000	C1AB00003130	MIC AMP
	IC3700	C0ABBB000230	CIRCUITO INTEGRADO
	IC2708	C0CBADG00023	IC

Safety	Ref. No.	Part No.	Part Name and Description
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Transistors			
	Q2310	B1GFGCAA0001	CHIP TRANSISTOR
	Q2320	B1ABCF000176	TRANSISTOR
	Q2371	B1ABCF000176	TRANSISTOR
	Q2372	B1ABCF000176	TRANSISTOR
	Q2373	B1ABCF000176	TRANSISTOR
	Q2374	B1GDCFJJ0047	TRANSISTOR
	Q2375	B1GDCFJJ0047	TRANSISTOR
	Q2410	B1GFGCAA0001	CHIP TRANSISTOR
	Q2501	B1ABCF000176	TRANSISTOR
	Q2510	B1GFGCAA0001	CHIP TRANSISTOR
	Q2559	B1ABCF000176	TRANSISTOR
	Q2571	B1GDCFJJ0047	TRANSISTOR
	Q2708	B1ADCE000012	TRANSISTOR
	Q2711	B1BACG000023	TRANSISTOR
	Q2735	B1BACD000018	TRANSISTOR
	Q2743	B1ACKD000006	TRANSISTOR
	Q2745	B1GBCFLL0037	CHIP TRANSISTOR
	Q2751	B1BACG000023	TRANSISTOR
	Q2761	B1BCCG000002	TRANSISTOR
	Q2771	B1GBCFJJ0051	TRANSISTOR
	Q2772	B1GBCFJJ0051	TRANSISTOR
	Q2812	B1GBCFLL0037	CHIP TRANSISTOR
	Q2900	B1BABK000001	TRANSISTOR
	Q2942	B1ACKD000006	TRANSISTOR
	Q2943	B1ABCF000176	TRANSISTOR
	Q2947	B1ABCF000176	TRANSISTOR
	Q2948	B1ABCF000176	TRANSISTOR
	Q2949	B1ABCF000176	TRANSISTOR
	Q2961	B1ACKD000006	TRANSISTOR
	Q2967	B1ABCF000176	TRANSISTOR
	Q3115	B1ABCF000176	TRANSISTOR
	Q3116	B1ABCF000176	TRANSISTOR
	Q3301	B1ABCF000176	TRANSISTOR
	Q5101	B1ABCF000176	TRANSISTOR
	Q5102	B1ABCF000176	TRANSISTOR
	Q5601	B1ABCF000176	TRANSISTOR
	Q5603	B1ADCE000012	TRANSISTOR
	Q5604	B1ABCF000176	TRANSISTOR
	Q5720	2SC3940ARA	TRANSISTOR
	Q5721	2SA207700L	TRANSISTOR
	Q5722	B1ABCF000176	TRANSISTOR
	Q5802	B1ABCF000176	TRANSISTOR
	Q5803	2SC3940ARA	TRANSISTOR
	Q5860	2SA207700L	TRANSISTOR
	Q5861	B1ABCF000176	TRANSISTOR
	Q5862	B1ABCF000176	TRANSISTOR
	Q6511	B1GBCFJN0033	TRANSISTOR
	Q6512	B1GBCFJN0033	TRANSISTOR
	Q6600	B1GBCFJN0033	TRANSISTOR
	Q6601	B1GBCFJN0033	TRANSISTOR
	Q6602	B1GBCFJN0033	TRANSISTOR
	Q6603	B1GBCFJN0033	TRANSISTOR
	QR2317	B1GDCFJA0018	TRANSISTOR
	QR5801	UNR221400L	CHIP TRANSISTOR
	QR5802	B1GDCFJA0018	TRANSISTOR
	QR5810	B1GBCFLL0037	CHIP TRANSISTOR

Diodes			
	D2503	B0ADCC000002	DUAL CHIP DIODE
	D2711	B0BC4R3A0006	DIODE
	D2730	B0EAKM000117	DIODE
	D2731	B0EAKM000117	DIODE
	D2732	B0EAKM000117	DIODE
	D2733	B0BC9R000008	DIODE
	D2734	B0EAKM000117	DIODE
	D2735	B0EAKM000117	DIODE
	D2753	MAZ810000L	Zener Diode
	D2774	B0ADCJ000020	DUAL CHIP DIODE
	D2812	B0ACCK000005	DIODE
	D2813	B0ACCK000005	DIODE
	D2829	B0EAKM000117	DIODE
	D2834	B0EAKM000117	DIODE
	D2901	B0BC035A0007	DIODE
	D2903	B0EAMM000057	DIODE
	D2906	B0JAME000114	DIODE
	D2908	B0EAMM000057	DIODE
	D2909	MAZ82400HL	DIODE
	D2920	MA2J1110GL	CHIP DIODE
	D2940	MA2J1110GL	CHIP DIODE
	D2946	B0ADCJ000020	DUAL CHIP DIODE
	D2947	B0BC5R600003	CHIP DIODE
	D2948	B0BC5R600003	CHIP DIODE
	D2968	B0ADCJ000020	DUAL CHIP DIODE
	D3920	B0EAMM000057	DIODE
	D3921	B0EAMM000057	DIODE
	D5001	B0HCSP000001	CHIP DIODE
	D5002	B0HCSP000001	CHIP DIODE
	D5003	B0HCSP000001	CHIP DIODE
	D5004	B0HCSP000001	CHIP DIODE
	D5201	B0HCSP000001	CHIP DIODE
	D5202	B0HCSP000001	CHIP DIODE
	D5203	B0HCSP000001	CHIP DIODE
	D5204	B0HCSP000001	CHIP DIODE
	D5401	B0HCSP000001	CHIP DIODE
	D5402	B0HCSP000001	CHIP DIODE
	D5403	B0HCSP000001	CHIP DIODE
	D5404	B0HCSP000001	CHIP DIODE
	D5501	MA2J11100L	CHIP DIODE
	D5502	MA2J11100L	CHIP DIODE
	D5503	MAZ80510ML	REGULATOR
	D5646	MAZ80750ML	CHIP DIODE
	D5701	B0FBAR000041	DIODE
	D5702	B0ZAZ0000052	DIODE
	D5721	MAZ81800ML	CHIP DIODE
	D5722	B0BC019A0007	DIODE
	D5723	MA2J11100L	CHIP DIODE
	D5724	MA2J11100L	CHIP DIODE
	D5725	B0BC6R100010	DIODE
	D5726	B0EAKM000117	DIODE
	D5727	MA2J11100L	CHIP DIODE
	D5728	MA2J11100L	CHIP DIODE
	D5729	B0EAMM000057	DIODE
	D5730	MA2J11100L	CHIP DIODE
	D5732	B0BC035A0007	DIODE
	D5733	B0HCMM000019	DIODE
	D5793	B0HAMP000094	DIODE
	D5797	MA2J72800L	DIODE
	D5798	B0HAMP000094	DIODE
	D5801	B0HBSM000043	DIODE
	D5802	B0HBSM000043	DIODE
	D5803	B0HFRJ000012	DIODE
	D5804	B0EAMM000057	DIODE
	D5805	B0EAMM000057	DIODE
	D5806	MAZ80750ML	CHIP DIODE
	D5807	MA2J11100L	CHIP DIODE
	D5809	MA2J11100L	CHIP DIODE
	D5896	B0EAMM000057	DIODE
	D6672	B0BC2R4A0006	ZENER DIODE
	DZ2702	B0JCPD000025	DIODE

Variable Resistors		
VR1200	EVUF2AF15B14	POTENCIOMETRO
VR6500	EVEKE2F3524B	CONTROL DE VOLUMEN
VR6630	K9AA012Y0003	ENCODER (PERILLA VOL)
VR6882	K9AA012Y0002	ENCODER (PERILLA VOL)

Switches		
S6100	EVQ21405RJ	TACK SWITCH
S6104	EVQ21405RJ	TACK SWITCH
S6107	EVQ21405RJ	TACK SWITCH
S6109	EVQ21405RJ	TACK SWITCH
S6200	EVQ21405RJ	TACK SWITCH
S6201	EVQ21405RJ	TACK SWITCH
S6202	EVQ21405RJ	TACK SWITCH
S6203	EVQ21405RJ	TACK SWITCH
S6204	EVQ21405RJ	TACK SWITCH
S6205	EVQ21405RJ	TACK SWITCH
S6206	EVQ21405RJ	TACK SWITCH
S6207	EVQ21405RJ	TACK SWITCH
S6300	EVQ21405RJ	TACK SWITCH
S6301	EVQ21405RJ	TACK SWITCH
S6302	EVQ21405RJ	TACK SWITCH
S6303	EVQ21405RJ	TACK SWITCH
S6304	EVQ21405RJ	TACK SWITCH
S6305	EVQ21405RJ	TACK SWITCH
S6306	EVQ21405RJ	TACK SWITCH
S6307	EVQ21405RJ	TACK SWITCH

Connectors		
 P5701	K2AA2B000017	AC INLET CONECTOR
CN2801	K1MN25AA0004	CONECTOR
CN2802	K1MN11AA0003	CONECTOR 11 PIN
CN2806	K1MY27AA0124	CONECTOR 27 PIN
CN2807	K1MN10AA0003	10P FFC SIDE CONNECTOR
CN2810	K1KA02AA0186	CONECTOR
CN2813	K1KA05AA0193	Conector
CN2820	K1KA02AA0186	CONECTOR
CN3200	K1MN30AA0004	CONECTOR
CN5050	K1MN17AA0004	CONECTOR
CN5050	K1MN17AA0004	CONECTOR
CN5500	K1KA08AA0180	CONECTOR 8 PIN
CN5802	K1KA11AA0194	CONECTOR
CN6001	K1MY27AA0124	CONECTOR 27 PIN
CN6602	K1KA05AA0193	Conector
CN6807	K1MN10AA0003	10P FFC SIDE CONNECTOR

Coils and inductors		
 L1201	ELF22V035B	Bobina
L1201	J0JBC0000019	CHIP INDUCTOR
L2120	G0C330JA0055	BOBINA
L2702	G0A1012A0028	BOBINA
L2910	G0A220GA0002	BOBINA
L5000	G0A150L00003	BOBINA
L5001	G0B9R5K00007	BOBINA
L5002	G0B9R5K00007	BOBINA
L5200	G0A150L00003	BOBINA
L5201	G0B9R5K00007	BOBINA
L5400	G0A150L00003	BOBINA
L5500	J0JKB0000020	EMIBEADCORER
L5501	J0JKB0000020	EMIBEADCORER
L6671	J0JBC0000019	CHIP INDUCTOR
L6801	J0JBC0000019	CHIP INDUCTOR
L6802	J0JBC0000019	CHIP INDUCTOR
L6811	J0JBC0000019	CHIP INDUCTOR
L6812	J0JBC0000019	CHIP INDUCTOR
L6851	J0JBC0000019	CHIP INDUCTOR
L6863	J0JBC0000019	CHIP INDUCTOR

Transformers		
T2900	G4D1A0000117	SWITCHING MINITRANS
 T5701	ETS48AB12GAC	Backup Switching Transformer
 T5751	ETS19AB256AG	Backup Switching Transformer

Component Combination		
Z6601	B3RAB0000081	REMOTE SENSOR
ZJ5400	K4CZ01000027	TERMINAL DE TIERRA

	ZJ5410	K4CZ01000027	TERMINAL DE TIERRA
	ZJ5701	K4CZ01000027	TERMINAL DE TIERRA
	ZJ5801	K4CZ01000027	TERMINAL DE TIERRA
	ZJ5803	K4CZ01000027	TERMINAL DE TIERRA

Photo couplers			
	PC5701	B3PBA0000402	OPTOACOPLADOR
	PC5702	B3PBA0000402	OPTOACOPLADOR
	PC5720	B3PBA0000402	OPTOACOPLADOR
	PC5799	B3PBA0000402	OPTOACOPLADOR

Oscillators		
X2602	H2B100500004	CERAMIC RESONATORS
X2611	H0A327200115	37.768 KHz XTAL
X5500	H2A6023A0011	OSCILADOR
X5501	H2A7003A0011	OSCILADOR

Fl display		
FL6601	A2BB00000171	DISPLAY

Fuse Holder		
ZA5701	K3GE1ZZ00001	PORTAFUSIBLE
ZA5702	K3GE1ZZ00001	PORTAFUSIBLE

Fuses		
 K5D802APA008		FUSIBLE

Fuse Protector		
 FP2901	K5G4013A0001	RESISTENCIA FUSIBLE

Thermistors		
TH5701	D4CAA5R10001	Thermistors
TH5860	D4CC11040013	CHIP TERMISTOR

Jacks		
JK2801	K2HA204B0153	2 PIN RCA JACK
JK5001	K4AL06B00001	JACK
JK6800	K2HC103A0031	HEADPHONE JECK
JK6810	K2HC1YYA0002	MUSIC PORT JACK

Chip Jumper		
C2002	D0GBR00JA008	CHIP JUMPER
C2005	D0GBR00JA008	CHIP JUMPER
C3118	D0GDR00JA017	CHIP JUMPER
C3119	D0GDR00JA017	CHIP JUMPER
C5800	ERJ6GEY0R00V	CHIP JUMPER
C5826	ERJ6GEY0R00V	CHIP JUMPER
D2707	Z-W6NL	ALAMBRE JUMPER
K1	Z-W6NL	ALAMBRE JUMPER
K1	ERJ3GEY0R00V	CHIP JUMPER
K100	Z-W6NL	ALAMBRE JUMPER
K105	Z-W6NL	ALAMBRE JUMPER
K17	Z-W6NL	ALAMBRE JUMPER
K2	ERJ3GEY0R00V	CHIP JUMPER
K2051	Z-W6NL	ALAMBRE JUMPER
K2055	Z-W6NL	ALAMBRE JUMPER
K2068	Z-W6NL	ALAMBRE JUMPER
K2321	ERJ3GEY0R00V	CHIP JUMPER
K2322	ERJ3GEY0R00V	CHIP JUMPER
K2372	Z-W6NL	ALAMBRE JUMPER
K2377	Z-W6NL	ALAMBRE JUMPER
K2400	Z-W6NL	ALAMBRE JUMPER
K2500	Z-W6NL	ALAMBRE JUMPER
K2701	Z-W6NL	ALAMBRE JUMPER
K2702	Z-W6NL	ALAMBRE JUMPER
K2703	Z-W6NL	ALAMBRE JUMPER
K2705	Z-W6NL	ALAMBRE JUMPER
K2708	Z-W6NL	ALAMBRE JUMPER
K2731	Z-W6NL	ALAMBRE JUMPER
K2732	Z-W6NL	ALAMBRE JUMPER
K2752	Z-W6NL	ALAMBRE JUMPER
K2752	Z-W6NL	ALAMBRE JUMPER
K2752	Z-W6NL	ALAMBRE JUMPER

	W106	Z-W6NL	ALAMBRE JUMPER
	W108	Z-W6NL	ALAMBRE JUMPER
	W109	Z-W6NL	ALAMBRE JUMPER
	W11	Z-W6NL	ALAMBRE JUMPER
	W110	Z-W6NL	ALAMBRE JUMPER
	W111	Z-W6NL	ALAMBRE JUMPER
	W112	Z-W6NL	ALAMBRE JUMPER
	W113	Z-W6NL	ALAMBRE JUMPER
	W114	Z-W6NL	ALAMBRE JUMPER
	W115	Z-W6NL	ALAMBRE JUMPER
	W116	Z-W6NL	ALAMBRE JUMPER
	W118	Z-W6NL	ALAMBRE JUMPER
	W119	Z-W6NL	ALAMBRE JUMPER
	W12	Z-W6NL	ALAMBRE JUMPER
	W120	Z-W6NL	ALAMBRE JUMPER
	W121	Z-W6NL	ALAMBRE JUMPER
	W122	Z-W6NL	ALAMBRE JUMPER
	W123	Z-W6NL	ALAMBRE JUMPER
	W124	Z-W6NL	ALAMBRE JUMPER
	W126	Z-W6NL	ALAMBRE JUMPER
	W127	Z-W6NL	ALAMBRE JUMPER
	W128	Z-W6NL	ALAMBRE JUMPER
	W129	Z-W6NL	ALAMBRE JUMPER
	W130	Z-W6NL	ALAMBRE JUMPER
	W132	Z-W6NL	ALAMBRE JUMPER
	W133	Z-W6NL	ALAMBRE JUMPER
	W134	Z-W6NL	ALAMBRE JUMPER
	W135	Z-W6NL	ALAMBRE JUMPER
	W136	Z-W6NL	ALAMBRE JUMPER
	W137	Z-W6NL	ALAMBRE JUMPER
	W138	Z-W6NL	ALAMBRE JUMPER
	W139	Z-W6NL	ALAMBRE JUMPER
	W14	Z-W6NL	ALAMBRE JUMPER
	W140	Z-W6NL	ALAMBRE JUMPER
	W141	Z-W6NL	ALAMBRE JUMPER
	W142	Z-W6NL	ALAMBRE JUMPER
	W144	Z-W6NL	ALAMBRE JUMPER
	W145	Z-W6NL	ALAMBRE JUMPER
	W146	Z-W6NL	ALAMBRE JUMPER
	W148	Z-W6NL	ALAMBRE JUMPER
	W149	Z-W6NL	ALAMBRE JUMPER
	W15	Z-W6NL	ALAMBRE JUMPER
	W150	Z-W6NL	ALAMBRE JUMPER
	W151	Z-W6NL	ALAMBRE JUMPER
	W152	Z-W6NL	ALAMBRE JUMPER
	W153	Z-W6NL	ALAMBRE JUMPER
	W154	Z-W6NL	ALAMBRE JUMPER
	W155	Z-W6NL	ALAMBRE JUMPER
	W156	Z-W6NL	ALAMBRE JUMPER
	W157	Z-W6NL	ALAMBRE JUMPER
	W158	Z-W6NL	ALAMBRE JUMPER
	W159	Z-W6NL	ALAMBRE JUMPER
	W160	Z-W6NL	ALAMBRE JUMPER
	W161	Z-W6NL	ALAMBRE JUMPER
	W162	Z-W6NL	ALAMBRE JUMPER
	W163	Z-W6NL	ALAMBRE JUMPER
	W164	Z-W6NL	ALAMBRE JUMPER
	W165	Z-W6NL	ALAMBRE JUMPER
	W168	Z-W6NL	ALAMBRE JUMPER
	W169	Z-W6NL	ALAMBRE JUMPER
	W17	Z-W6NL	ALAMBRE JUMPER
	W170	Z-W6NL	ALAMBRE JUMPER
	W171	Z-W6NL	ALAMBRE JUMPER
	W172	Z-W6NL	ALAMBRE JUMPER
	W173	Z-W6NL	ALAMBRE JUMPER
	W174	Z-W6NL	ALAMBRE JUMPER
	W175	Z-W6NL	ALAMBRE JUMPER
	W176	Z-W6NL	ALAMBRE JUMPER
	W177	Z-W6NL	ALAMBRE JUMPER
	W178	Z-W6NL	ALAMBRE JUMPER
	W179	Z-W6NL	ALAMBRE JUMPER
	W180	Z-W6NL	ALAMBRE JUMPER
	W181	Z-W6NL	ALAMBRE JUMPER
	W182	Z-W6NL	ALAMBRE JUMPER
	W183	Z-W6NL	ALAMBRE JUMPER
	W185	Z-W6NL	ALAMBRE JUMPER
	W186	Z-W6NL	ALAMBRE JUMPER
	W187	Z-W6NL	ALAMBRE JUMPER
	W188	Z-W6NL	ALAMBRE JUMPER
	W189	Z-W6NL	ALAMBRE JUMPER
	W19	Z-W6NL	ALAMBRE JUMPER
	W190	Z-W6NL	ALAMBRE JUMPER

	W91	Z-W6NL	ALAMBRE JUMPER
	W93	Z-W6NL	ALAMBRE JUMPER
	W97	Z-W6NL	ALAMBRE JUMPER

Resistors

D3922	D0GB474JA008	RESISTENCIA CHIP
R1100	ERJ3GEYJ682V	CHIP RESISTOR
R1101	ERJ3GEYJ153V	RESISTENCIA CHIP PEL3CULA
R1102	ERJ3GEYJ331V	RESISTENCIA CHIP PEL3CULA
R1103	ERJ3GEYJ681V	RESISTENCIA
R1104	D0GB561JA008	CHIP RESISTOR
R1105	D0GB101JA008	CHIP RESISTOR
R1110	D0GB472JA008	CHIP RESISTOR
R1111	D0GB104JA008	CHIP RESISTENCIA
R2041	ERJ3GEYJ562V	CHIP RESISTOR
R2042	D0GB272JA008	CHIP RESISTENCIA
R2043	ERJ3GEYJ562V	CHIP RESISTOR
R2044	D0GB272JA008	CHIP RESISTENCIA
R2046	ERJ3GEYJ332V	CHIP RESISTOR
R2051	D0GB272JA008	CHIP RESISTENCIA
R2052	D0GB272JA008	CHIP RESISTENCIA
R2053	ERJ3GEYJ682V	CHIP RESISTOR
R2054	ERJ3GEYJ682V	CHIP RESISTOR
R2061	ERJ3GEYJ182V	RESISTENCIA CHIP PEL3CULA
R2062	ERJ3GEYJ682V	CHIP RESISTOR
R2063	ERJ3GEYJ682V	CHIP RESISTOR
R2064	ERJ3GEYJ182V	RESISTENCIA CHIP PEL3CULA
R2081	ERJ3GEYJ682V	CHIP RESISTOR
R2082	ERJ3GEYJ682V	CHIP RESISTOR
R2083	ERJ3GEYJ822V	RESISTENCIA CHIP PEL3CULA
R2084	ERJ3GEYJ822V	RESISTENCIA CHIP PEL3CULA
R2118	D0GB392JA008	CHIP RESISTENCIA
R2120	D0GB392JA008	CHIP RESISTENCIA
R2121	ERJ3GEYJ332V	CHIP RESISTOR
R2122	ERJ3GEYJ332V	CHIP RESISTOR
R2123	ERJ3GEYJ123V	RESISTENCIA CHIP PEL3CULA
R2124	ERJ3GEYJ123V	RESISTENCIA CHIP PEL3CULA
R2125	ERJ3GEYJ183V	RESISTENCIA CHIP PEL3CULA
R2126	ERJ3GEYJ183V	RESISTENCIA CHIP PEL3CULA
R2127	ERJ3GEYJ223V	RESISTENCIA CHIP PEL3CULA
R2128	ERJ3GEYJ223V	RESISTENCIA CHIP PEL3CULA
R2131	ERJ3GEYJ223V	RESISTENCIA CHIP PEL3CULA
R2132	ERJ3GEYJ223V	RESISTENCIA CHIP PEL3CULA
R2133	ERJ3GEYJ223V	RESISTENCIA CHIP PEL3CULA
R2134	ERJ3GEYJ223V	RESISTENCIA CHIP PEL3CULA
R2137	ERJ3GEYJ273V	RESISTENCIA CHIP PEL3CULA
R2138	ERJ3GEYJ273V	RESISTENCIA CHIP PEL3CULA
R2181	ERJ3GEYJ102V	CHIP RESISTOR
R2182	ERJ3GEYJ102V	CHIP RESISTOR
R2183	ERJ3GEYJ183V	RESISTENCIA CHIP PEL3CULA
R2184	ERJ3GEYJ183V	RESISTENCIA CHIP PEL3CULA
R2185	ERJ3GEYJ103V	CHIP RESISTOR
R2186	ERJ3GEYJ103V	CHIP RESISTOR
R2220	D0GB103JA008	CHIP RESISTOR
R2221	ERJ3GEYJ332V	CHIP RESISTOR
R2222	ERJ3GEYJ332V	CHIP RESISTOR
R2223	D0GB223JA008	CHIP RESISTOR
R2224	D0GB223JA008	CHIP RESISTOR
R2301	D0GB563JA008	CHIP RESISTENCIA
R2302	D0GB474JA008	RESISTENCIA CHIP
R2303	ERJ3GEYJ223V	RESISTENCIA CHIP PEL3CULA
R2304	ERJ3GEYJ103V	CHIP RESISTOR
R2305	ERJ3GEYJ223V	RESISTENCIA CHIP PEL3CULA
R2311	D0GB471JA008	CHIP RESISTOR
R2312	D0GB471JA008	CHIP RESISTOR
R2313	D0GB104JA008	CHIP RESISTENCIA
R2314	D0GB104JA008	CHIP RESISTENCIA
R2315	ERJ3GEYJ153V	RESISTENCIA CHIP PEL3CULA
R2316	ERJ3GEYJ153V	RESISTENCIA CHIP PEL3CULA
R2318	D0GB104JA008	CHIP RESISTENCIA
R2320	D0GD223JA017	CHIP RESISTOR
R2321	ERJ3GEYJ103V	CHIP RESISTOR
R2322	ERJ3GEYJ103V	CHIP RESISTOR
R2323	D0GB563JA008	CHIP RESISTENCIA
R2324	D0GB563JA008	CHIP RESISTENCIA
R2327	D0GB563JA008	CHIP RESISTENCIA
R2328	D0GB563JA008	CHIP RESISTENCIA
R2351	D0GB180JA008	CHIP RESISTENCIA
R2352	D0GB180JA008	CHIP RESISTENCIA
R2353	D0GB180JA008	CHIP RESISTENCIA
R2354	D0GB180JA008	CHIP RESISTENCIA

R2355	D0GB180JA008	CHIP RESISTENCIA
R2356	D0GB180JA008	CHIP RESISTENCIA
R2357	D0GB180JA008	CHIP RESISTENCIA
R2358	D0GB180JA008	CHIP RESISTENCIA
R2359	ERJ3GEYJ562V	CHIP RESISTOR
R2360	ERJ3GEYJ562V	CHIP RESISTOR
R2361	ERJ3GEYJ562V	CHIP RESISTOR
R2362	ERJ3GEYJ562V	CHIP RESISTOR
R2365	D0GB104JA008	CHIP RESISTENCIA
R2366	ERJ3GEYJ821V	RESISTENCIA CHIP PELICULA
R2368	ERJ3GEYJ183V	RESISTENCIA CHIP PEL3CULA
R2369	ERJ3GEYJ183V	RESISTENCIA CHIP PEL3CULA
R2370	D0GB473JA008	CHIP RESISTOR
R2371	D0GB393JA008	CHIP RESISTENCIA
R2372	D0GB393JA008	CHIP RESISTENCIA
R2373	ERJ3GEYJ153V	RESISTENCIA CHIP PEL3CULA
R2374	ERJ3GEYJ183V	RESISTENCIA CHIP PEL3CULA
R2375	D0GB471JA008	CHIP RESISTOR
R2376	D0GB222JA008	RESISTENCIA CHIP
R2379	ERJ3GEYJ183V	RESISTENCIA CHIP PEL3CULA
R2380	ERJ3GEYJ123V	RESISTENCIA CHIP PEL3CULA
R2381	D0GB104JA008	CHIP RESISTENCIA
R2382	ERJ3GEYJ102V	CHIP RESISTOR
R2383	ERJ3GEYJ102V	CHIP RESISTOR
R2385	ERJ3GEYJ106V	CHIP RESISTOR
R2416	D0GB471JA008	CHIP RESISTOR
R2417	ERJ3GEYJ103V	CHIP RESISTOR
R2418	D0GB104JA008	CHIP RESISTENCIA
R2448	D0GD223JA017	CHIP RESISTOR
R2501	D0GB334JA008	CHIP RESISTENCIA
R2502	ERJ3GEYJ823V	CHIP RESISTOR
R2503	D0GB392JA008	CHIP RESISTENCIA
R2504	D0GB101JA008	CHIP RESISTOR
R2505	ERJ3GEYJ681V	RESISTENCIA
R2506	D0GB473JA008	CHIP RESISTOR
R2508	ERJ3GEYJ102V	CHIP RESISTOR
R2509	D0GB101JA008	CHIP RESISTOR
R2510	D0GB563JA008	CHIP RESISTENCIA
R2516	D0GB471JA008	CHIP RESISTOR
R2517	ERJ3GEYJ103V	CHIP RESISTOR
R2556	ERJ3GEYJ102V	CHIP RESISTOR
R2570	ERJ3GEYJ102V	CHIP RESISTOR
R2583	D0GB101JA008	CHIP RESISTOR
R2605	ERJ3GEYJ103V	CHIP RESISTOR
R2606	ERJ3GEYJ103V	CHIP RESISTOR
R2620	D0GB473JA008	CHIP RESISTOR
R2621	D0GB473JA008	CHIP RESISTOR
R2622	D0GB473JA008	CHIP RESISTOR
R2623	D0GB473JA008	CHIP RESISTOR
R2624	D0GB473JA008	CHIP RESISTOR
R2625	D0GB473JA008	CHIP RESISTOR
R2626	D0GB473JA008	CHIP RESISTOR
R2627	D0GB473JA008	CHIP RESISTOR
R2628	ERJ3GEYJ103V	CHIP RESISTOR
R2632	ERJ3GEYJ103V	CHIP RESISTOR
R2635	ERJ3GEYJ103V	CHIP RESISTOR
R2641	ERJ3GEYJ103V	CHIP RESISTOR
R2649	D0GB392JA008	CHIP RESISTENCIA
R2650	D0GB392JA008	CHIP RESISTENCIA
R2651	ERJ3GEYJ103V	CHIP RESISTOR
R2652	ERJ3GEYJ103V	CHIP RESISTOR
R2670	ERJ3GEYJ103V	CHIP RESISTOR
R2676	D0GB473JA008	CHIP RESISTOR
R2678	ERJ3GEYJ103V	CHIP RESISTOR
R2679	ERJ3GEYJ153V	RESISTENCIA CHIP PEL3CULA
R2681	ERJ3GEYJ103V	CHIP RESISTOR
R2684	ERJ3GEYJ153V	RESISTENCIA CHIP PEL3CULA
R2685	ERJ3GEYJ103V	CHIP RESISTOR
R2695	ERJ3GEYJ103V	CHIP RESISTOR
R2701	ERJ3RBD152V	CHIP RESISTOR
R2702	ERJ3RBD272V	CHIP RESISTOR
R2703	ERJ3RBD102V	CHIP RESISTOR
R2706	ERJ3GEYJ105V	RESISTENCIA CHIP
R2711	ERJ3GEYJ271V	RESISTENCIA CHIP PEL3CULA
R2712	D0GB180JA008	CHIP RESISTENCIA
R2733	ERJ3GEYJ391V	RESISTENCIA CHIP PEL3CULA
R2735	D0GB101JA008	CHIP RESISTOR
R2743	D0GB474JA008	RESISTENCIA CHIP
R2744	D0GB472JA008	CHIP RESISTOR
R2745	ERJ3GEYJ102V	CHIP RESISTOR
R2753	D0GD102JA017	CHIP RESISTOR
R2754	D0GB471JA008	CHIP RESISTOR

	R2755	D0GB272JA008	CHIP RESISTENCIA
	R2756	D0GB471JA008	CHIP RESISTOR
	R2762	ERJ3GEYJ102V	CHIP RESISTOR
	R2765	D0GB272JA008	CHIP RESISTENCIA
	R2771	ERJ3GEYJ822V	RESISTENCIA CHIP PELÍCULA
	R2772	ERJ3GEYJ752V	RESISTENCIA CHIP PELÍCULA
	R2773	ERJ3GEYJ153V	RESISTENCIA CHIP PELÍCULA
	R2774	ERJ3GEYJ153V	RESISTENCIA CHIP PELÍCULA
	R2775	D0GB912JA041	CHIP RESISTOR
	R2801	ERJ3GEYJ102V	CHIP RESISTOR
	R2802	D0GB101JA008	CHIP RESISTOR
	R2803	D0GD102JA017	CHIP RESISTOR
	R2804	ERJ3GEYJ102V	CHIP RESISTOR
	R2805	D0GB101JA008	CHIP RESISTOR
	R2806	D0GB101JA008	CHIP RESISTOR
	R2808	D0GB101JA008	CHIP RESISTOR
	R2809	D0GB101JA008	CHIP RESISTOR
	R2811	D0GB472JA008	CHIP RESISTOR
	R2815	D0GB473JA008	CHIP RESISTOR
	R2828	ERJ3GEYJ102V	CHIP RESISTOR
	R2829	ERJ3GEYJ152V	RESISTENCIA CHIP PELÍCULA
	R2833	ERJ3GEYJ102V	CHIP RESISTOR
	R2834	ERJ3GEYJ152V	RESISTENCIA CHIP PELÍCULA
	R2835	D0GB101JA008	CHIP RESISTOR
	R2840	D0GD101JA017	CHIP RESISTOR
	R2843	D0GB101JA008	CHIP RESISTOR
	R2851	D0GB101JA008	CHIP RESISTOR
	R2852	D0GB101JA008	CHIP RESISTOR
	R2854	D0GB101JA008	CHIP RESISTOR
	R2864	D0GB101JA008	CHIP RESISTOR
	R2865	ERJ3GEYJ102V	CHIP RESISTOR
	R2866	D0GB101JA008	CHIP RESISTOR
	R2867	D0GB101JA008	CHIP RESISTOR
	R2868	D0GB101JA008	CHIP RESISTOR
	R2869	D0GB101JA008	CHIP RESISTOR
	R2870	D0GB101JA008	CHIP RESISTOR
	R2874	D0GB101JA008	CHIP RESISTOR
	R2875	D0GB101JA008	CHIP RESISTOR
	R2876	D0GB101JA008	CHIP RESISTOR
	R2878	D0GB101JA008	CHIP RESISTOR
	R2879	D0GB101JA008	CHIP RESISTOR
	R2880	D0GB101JA008	CHIP RESISTOR
	R2881	D0GB101JA008	CHIP RESISTOR
	R2883	D0GB101JA008	CHIP RESISTOR
	R2885	ERJ3GEYJ102V	CHIP RESISTOR
	R2886	ERJ3GEYJ102V	CHIP RESISTOR
	R2887	ERJ3GEYJ102V	CHIP RESISTOR
	R2888	ERJ3GEYJ102V	CHIP RESISTOR
	R2894	D0GB101JA008	CHIP RESISTOR
	R2895	D0GB101JA008	CHIP RESISTOR
	R2896	D0GB101JA008	CHIP RESISTOR
	R2897	D0GB101JA008	CHIP RESISTOR
	R2898	D0GB101JA008	CHIP RESISTOR
	R2899	D0GB101JA008	CHIP RESISTOR
	R2902	ERJ3GEYJ470V	RESISTENCIA CHIP PELÍCULA
	R2914	D0GB473JA008	CHIP RESISTOR
	R2920	ERJ3GEYJ564V	CHIP RESISTOR
	R2937	D0GD103JA017	CHIP RESISTOR
	R2939	D0GB473JA008	CHIP RESISTOR
	R2941	ERJ3GEYJ103V	CHIP RESISTOR
	R2942	D0GB472JA008	CHIP RESISTOR
	R2944	ERJ3GEYJ562V	CHIP RESISTOR
	R2945	ERJ3GEYJ103V	CHIP RESISTOR
	R2946	D0GB563JA008	CHIP RESISTENCIA
	R2947	D0AF270JA039	RADIAL RESISTOR
	R2948	D0GB101JA008	CHIP RESISTOR
	R2949	D0GB473JA008	CHIP RESISTOR
	R2950	ERJ3GEYJ562V	CHIP RESISTOR
	R2957	D0AF270JA039	RADIAL RESISTOR
	R2958	D0GB101JA008	CHIP RESISTOR
	R2959	D0GB683JA008	CHIP RESISTENCIA
	R2961	D0GB472JA008	CHIP RESISTOR
	R2962	ERJ3GEYJ562V	CHIP RESISTOR
	R2963	ERJ3GEYJ103V	CHIP RESISTOR
	R2965	ERJ3GEYJ103V	CHIP RESISTOR
	R2966	ERJ3GEYJ824V	RESISTENCIA CHIP
	R2967	D0GB473JA008	CHIP RESISTOR
	R2968	ERJ3GEYJ562V	CHIP RESISTOR
	R2969	D0GB563JA008	CHIP RESISTENCIA
	R2990	ERJ3GEYJ102V	CHIP RESISTOR
	R2992	D0GB101JA008	CHIP RESISTOR
	R3111	D0GB392JA008	CHIP RESISTENCIA

	R3112	D0GB392JA008	CHIP RESISTENCIA
	R3115	D0GB471JA008	CHIP RESISTOR
	R3116	D0GB471JA008	CHIP RESISTOR
	R3117	ERJ3GEYJ102V	CHIP RESISTOR
	R3118	ERJ3GEYJ102V	CHIP RESISTOR
	R3119	ERJ3GEYJ681V	RESISTENCIA
	R3120	ERJ3GEYJ681V	RESISTENCIA
	R3302	D0GB101JA008	CHIP RESISTOR
	R3303	D0GB104JA008	CHIP RESISTENCIA
	R3306	ERJ3GEYJ103V	CHIP RESISTOR
	R3307	ERJ3GEYJ123V	RESISTENCIA CHIP PELÍCULA
	R3930	ERJ3GEYJ102V	CHIP RESISTOR
	R3931	ERJ3GEYJ824V	RESISTENCIA CHIP
	R5000	ERJ3GEYJ562V	CHIP RESISTOR
	R5001	ERJ3GEYJ562V	CHIP RESISTOR
	R5002	ERJ3GEYJ562V	CHIP RESISTOR
	R5003	ERJ3GEYJ562V	CHIP RESISTOR
	R5004	D0GF100JA014	CHIP RESISTOR
	R5005	D0GF100JA014	CHIP RESISTOR
	R5006	D0GZ220JA012	CHIP RESISTOR
	R5007	D0GZ220JA012	CHIP RESISTOR
	R5008	D0GB101JA008	CHIP RESISTOR
	R5010	D0GF100JA014	CHIP RESISTOR
	R5011	D0GF100JA014	CHIP RESISTOR
	R5018	D0GB683JA008	CHIP RESISTENCIA
	R5019	D0GB683JA008	CHIP RESISTENCIA
	R5020	ERJ3GEYJ124V	CHIP RESISTOR
	R5021	D0GB122JA008	CHIP RESISTOR
	R5022	D0GB122JA008	CHIP RESISTOR
	R5023	D0GB122JA008	CHIP RESISTOR
	R5030	ERJ3GEYJ562V	CHIP RESISTOR
	R5031	ERJ3GEYJ562V	CHIP RESISTOR
	R5032	ERJ3GEYJ562V	CHIP RESISTOR
	R5033	ERJ3GEYJ562V	CHIP RESISTOR
	R5036	ERJ3GEYJ562V	CHIP RESISTOR
	R5037	ERJ3GEYJ562V	CHIP RESISTOR
	R5103	ERJ3GEYJ562V	CHIP RESISTOR
	R5104	ERJ3GEYJ562V	CHIP RESISTOR
	R5110	ERJ3GEYJ223V	RESISTENCIA CHIP PELÍCULA
	R5113	ERJ3GEYJ124V	CHIP RESISTOR
	R5118	ERJ3GEYJ562V	CHIP RESISTOR
	R5119	ERJ3GEYJ562V	CHIP RESISTOR
	R5200	D0GF100JA014	CHIP RESISTOR
	R5201	D0GF100JA014	CHIP RESISTOR
	R5204	D0GB101JA008	CHIP RESISTOR
	R5205	ERJ3GEYJ562V	CHIP RESISTOR
	R5206	ERJ3GEYJ562V	CHIP RESISTOR
	R5207	ERJ3GEYJ562V	CHIP RESISTOR
	R5208	ERJ3GEYJ562V	CHIP RESISTOR
	R5209	D0GZ220JA012	CHIP RESISTOR
	R5210	D0GF100JA014	CHIP RESISTOR
	R5211	D0GF100JA014	CHIP RESISTOR
	R5217	D0GZ220JA012	CHIP RESISTOR
	R5317	D0GB122JA008	CHIP RESISTOR
	R5318	ERJ3GEYJ124V	CHIP RESISTOR
	R5328	D0GB683JA008	CHIP RESISTENCIA
	R5400	D0GZ220JA012	CHIP RESISTOR
	R5402	D0GF100JA014	CHIP RESISTOR
	R5404	D0GB101JA008	CHIP RESISTOR
	R5405	D0GF100JA014	CHIP RESISTOR
	R5410	D0GF100JA014	CHIP RESISTOR
	R5411	D0GF100JA014	CHIP RESISTOR
	R5419	D0GZ220JA012	CHIP RESISTOR
	R5504	D0GB220JA008	CHIP RESISTENCIA
	R5505	D0GB101JA008	CHIP RESISTOR
	R5506	ERJ3GEYJ105V	RESISTENCIA CHIP
	R5507	ERJ3GEYJ105V	RESISTENCIA CHIP
	R5508	ERJ3GEYJ105V	RESISTENCIA CHIP
	R5510	ERG2SJ471E	METAL OXIDE FILM RESISTOR
	R5513	D0GB101JA008	CHIP RESISTOR
	R5602	ERJ3GEYJ103V	CHIP RESISTOR
	R5603	ERJ3GEYJ103V	CHIP RESISTOR
	R5604	D0GB122JA008	CHIP RESISTOR
	R5608	ERJ3GEYJ103V	CHIP RESISTOR
	R5609	ERJ3GEYJ103V	CHIP RESISTOR
	R5611	D0GB122JA008	CHIP RESISTOR
	R5702	D0GZ333JA012	CHIP RESISTOR
	R5703	D0GZ333JA012	CHIP RESISTOR
	R5704	ERJ8GEYJ394V	CHIP RESISTENCIA
	R5705	ERJ8GEYJ394V	CHIP RESISTENCIA
	R5720	ERJ6GEYJ220V	R.CHIP
	R5721	ERJ6GEYJ103V	R.CHIP

R5722	ERJ6GEYJ122V	R.CHIP
R5723	ERJ3GEYJ102V	CHIP RESISTOR
R5724	ERJ6GEYJ121V	R.CHIP
R5726	ERX2LJ82MP	RESISTENCIA
R5727	ERX2SZJR10P	RESISTENCIA
R5728	D0GB104JA008	CHIP RESISTENCIA
R5729	ERJ6GEYJ103V	R.CHIP
R5730	ERJ3GEYJ102V	CHIP RESISTOR
R5732	D0GB101JA008	CHIP RESISTOR
R5733	D0GB473JA008	CHIP RESISTOR
R5786	ERJ1TYJ204U	CHIP RESISTOR
R5787	ERJ3GEYJ753V	RESISTENCIA CHIP
R5795	ERJ6GEYJ433V	CHIP RESISTOR
R5796	ERDS1FVJ222T	RESISTENCIA
R5797	ERJ6GEYJ472V	R.CHIP
R5798	ERJ6GEYJ100V	CHIP RESISTENCIA
R5800	ERJ6GEYJ123V	R.CHIP
R5801	ERJ6GEYJ103V	R.CHIP
R5802	ERJ3RBD272V	CHIP RESISTOR
R5804	D1BD4702A077	CHIP RESISTOR
R5805	ERJ3RBD222V	PRESICION CHIP RESISTOR
R5806	ERJ3GEYJ153V	RESISTENCIA CHIP PEL3CULA
R5807	ERJ6GEYJ331V	R.CHIP
R5808	ERJ6GEYJ222V	R.CHIP
R5809	ERJ6GEYJ331V	R.CHIP
R5810	ERJ3GEYJ331V	RESISTENCIA CHIP PEL3CULA
R5811	ERJ8GEYJ152V	CHIP RESISTOR
R5812	ERJ3RBD822V	PRESICION CHIP RESISTOR
R5813	ERJ3RBD243V	CHIP RESISTOR
R5814	ERJ3GEYJ822V	RESISTENCIA CHIP PEL3CULA
R5815	D0GB272JA008	CHIP RESISTENCIA
R5816	ERJ8GEYJ152V	CHIP RESISTOR
R5817	ERJ3GEYJ331V	RESISTENCIA CHIP PEL3CULA
R5820	ERG2SJ910E	RESISTENCIA
R5821	ERG2SJ910E	RESISTENCIA
R5822	ERG2SJ910E	RESISTENCIA
R5823	ERG2SJ910E	RESISTENCIA
R5824	ERG2SJ910E	RESISTENCIA
R5825	ERJ3GEYJ102V	CHIP RESISTOR
R5832	D0GZ222JA012	CHIP RESISTOR
R5834	D0GZ222JA012	CHIP RESISTOR
R5840	ERJ3GEYJ823V	CHIP RESISTOR
R5841	ERJ3GEYJ124V	CHIP RESISTOR
R5860	ERJ3GEYF103V	CHIP RESISTOR
R5861	ERJ3GEYF472V	CHIP RESISTOR
R5862	ERJ6GEYJ103V	R.CHIP
R5863	ERJ6GEYJ103V	R.CHIP
R5864	ERJ6GEYF103V	CHIP RESISTOR
R5890	D0GB222JA008	RESISTENCIA CHIP
R5891	ERJ3RBD333V	CHIP RESISTOR
R5892	ERJ3RBD472V	CHIP RESISTOR
R5893	ERJ3RBD393V	CHIP RESISTOR
R5894	ERJ3GEYJ102V	CHIP RESISTOR
R5895	D0GB101JA008	CHIP RESISTOR
R6100	ERJ3GEYJ103V	CHIP RESISTOR
R6101	D0GB122JA008	CHIP RESISTOR
R6102	ERJ3GEYJ152V	RESISTENCIA CHIP PEL3CULA
R6103	D0GB222JA008	RESISTENCIA CHIP
R6104	ERJ3GEYJ332V	CHIP RESISTOR
R6105	D0GB472JA008	CHIP RESISTOR
R6108	ERJ3GEYJ682V	CHIP RESISTOR
R6200	ERJ3GEYJ103V	CHIP RESISTOR
R6201	D0GB122JA008	CHIP RESISTOR
R6202	ERJ3GEYJ152V	RESISTENCIA CHIP PEL3CULA
R6203	D0GB222JA008	RESISTENCIA CHIP
R6204	ERJ3GEYJ332V	CHIP RESISTOR
R6205	D0GB472JA008	CHIP RESISTOR
R6206	ERJ3GEYJ682V	CHIP RESISTOR
R6207	ERJ3GEYJ153V	RESISTENCIA CHIP PEL3CULA
R6300	ERJ3GEYJ103V	CHIP RESISTOR
R6301	D0GB122JA008	CHIP RESISTOR
R6302	ERJ3GEYJ152V	RESISTENCIA CHIP PEL3CULA
R6303	D0GB222JA008	RESISTENCIA CHIP
R6304	ERJ3GEYJ332V	CHIP RESISTOR
R6305	D0GB472JA008	CHIP RESISTOR
R6306	ERJ3GEYJ682V	CHIP RESISTOR
R6307	ERJ3GEYJ153V	RESISTENCIA CHIP PEL3CULA
R6501	ERJ3GEYJ223V	RESISTENCIA CHIP PEL3CULA
R6502	ERJ3GEYJ123V	RESISTENCIA CHIP PEL3CULA
R6503	ERJ3GEYJ103V	CHIP RESISTOR
R6511	D0GB222JA008	RESISTENCIA CHIP
R6512	D0GB222JA008	RESISTENCIA CHIP

R6513	D0GB221JA008	RESISTENCIA CHIP
R6516	D0GB221JA008	RESISTENCIA CHIP
R6600	ERJ3GEYJ181V	RESISTENCIA
R6601	ERJ3GEYJ181V	RESISTENCIA
R6602	ERJ3GEYJ181V	RESISTENCIA
R6603	ERJ3GEYJ181V	RESISTENCIA
R6606	ERJ3GEYJ181V	RESISTENCIA
R6607	ERJ3GEYJ151V	RESISTENCIA CHIP PEL3CULA
R6608	ERJ3GEYJ151V	RESISTENCIA CHIP PEL3CULA
R6618	D0GB221JA008	RESISTENCIA CHIP
R6619	D0GB221JA008	RESISTENCIA CHIP
R6620	D0GB471JA008	CHIP RESISTOR
R6622	ERJ3GEYJ823V	CHIP RESISTOR
R6631	ERJ3GEYJ103V	CHIP RESISTOR
R6632	ERJ3GEYJ103V	CHIP RESISTOR
R6671	ERJ3GEYJ223V	RESISTENCIA CHIP PEL3CULA
R6672	ERJ3GEYJ100V	RESISTENCIA CHIP
R6882	ERJ3GEYJ223V	RESISTENCIA CHIP PEL3CULA
R6883	ERJ3GEYJ103V	CHIP RESISTOR
R6884	ERJ3GEYJ123V	RESISTENCIA CHIP PEL3CULA

Capacitors		
C1100	F2A1C100A207	CAPACITOR ELECTROLITICO
C1101	F2A1C100A207	CAPACITOR ELECTROLITICO
C1103	F2A1H1R0A213	CAPACITOR ELECTROLITICO
C1104	F2A1H1R0A213	CAPACITOR ELECTROLITICO
C1105	F2A1HR10A015	CAPACITOR
C1106	F2A1H4R7A213	CAPACITOR ELECTROLITICO
C1107	F2A1H2R2A234	CAPACITOR ELECTROLITICO
C1108	F1H1H472A013	CHIP CAPACITOR
C1109	F1H1H102A219	CHIP CAPACITOR
C1110	F1H1H222A013	CHIP CAPACITOR
C1111	F2A1HR10A015	CAPACITOR
C1113	F1H1H470A004	CHIP CAPACITOR
C1114	F1H1H103A219	CHIP CAPACITOR
C1120	F2A1H4R7A213	CAPACITOR ELECTROLITICO
C2025	F1H0J1050013	CHIP CAPACITOR
C2026	F1H0J1050013	CHIP CAPACITOR
C2050	F1H1H102A219	CHIP CAPACITOR
C2054	F1H1H103A219	CHIP CAPACITOR
C2055	F1H0J1050013	CHIP CAPACITOR
C2056	F1H0J1050013	CHIP CAPACITOR
C2065	F1H0J1050013	CHIP CAPACITOR
C2066	F1H0J1050013	CHIP CAPACITOR
C2075	F1H0J1050013	CHIP CAPACITOR
C2076	F1H0J1050013	CHIP CAPACITOR
C2081	F1H1H101A720	CHIP CAPACITOR
C2082	F1H1H101A720	CHIP CAPACITOR
C2083	F1H1H102A219	CHIP CAPACITOR
C2084	F1H1H102A219	CHIP CAPACITOR
C2085	F1H0J1050013	CHIP CAPACITOR
C2086	F1H0J1050013	CHIP CAPACITOR
C2091	F1H1H102A219	CHIP CAPACITOR
C2092	F1H1C104A042	CHIP CAPACITOR
C2095	F1H0J1050013	CHIP CAPACITOR
C2096	F1H0J1050013	CHIP CAPACITOR
C2119	F2A0J101A181	CAPACITOR
C2120	F1H1H103A219	CHIP CAPACITOR
C2121	F1H1H102A219	CHIP CAPACITOR
C2123	F1H0J1050013	CHIP CAPACITOR
C2129	F2A1H1R0A213	CAPACITOR ELECTROLITICO
C2130	F2A1H1R0A213	CAPACITOR ELECTROLITICO
C2135	F1H1H470A004	CHIP CAPACITOR
C2136	F1H1H470A004	CHIP CAPACITOR
C2139	F1H1H100A017	CHIP CAPACITOR
C2140	F1H1H100A017	CHIP CAPACITOR
C2170	F2A1A330A159	CAPACITOR
C2172	F2A1H4R7A213	CAPACITOR ELECTROLITICO
C2181	F2A1H1R0A213	CAPACITOR ELECTROLITICO
C2182	F2A1H1R0A213	CAPACITOR ELECTROLITICO
C2183	F1H1C474A008	CHIP CAPACITOR
C2184	F1H1C474A008	CHIP CAPACITOR
C2185	F1H1C474A008	CHIP CAPACITOR
C2186	F1H1C474A008	CHIP CAPACITOR
C2187	F1H1H332A013	CHIP CAPACITOR
C2188	F1H1H332A013	CHIP CAPACITOR
C2189	F1H0J1050013	CHIP CAPACITOR
C2190	F1H0J1050013	CHIP CAPACITOR
C2191	F1H0J1050013	CHIP CAPACITOR
C2192	F1H0J1050013	CHIP CAPACITOR
C2193	ECJ1VB1H104K	CAPACITOR CHIP

C2194	ECJ1VB1H104K	CAPACITOR CHIP
C2195	F1H0J1050013	CHIP CAPACITOR
C2196	F1H0J1050013	CHIP CAPACITOR
C2197	F1H1H332A013	CHIP CAPACITOR
C2210	F1H1H223A219	CHIP CAPACITOR
C2212	F1H1H331A013	CHIP CAPACITOR
C2213	F1H1H331A013	CHIP CAPACITOR
C2221	F1H1H102A219	CHIP CAPACITOR
C2300	F1H1C683A087	CHIP CAPACITOR
C2302	F2A1H1R0A213	CAPACITOR ELECTROLITICO
C2303	F2A1H3R3A213	CAPACITOR ELECTROLITICO
C2304	F2A1H3R3A213	CAPACITOR ELECTROLITICO
C2305	F2A1H3R3A213	CAPACITOR ELECTROLITICO
C2306	F1H1C683A087	CHIP CAPACITOR
C2307	F1H1C683A087	CHIP CAPACITOR
C2308	F1H0J4750003	CHIP CAPACITOR
C2310	F2A1A101A159	CAPACITOR
C2311	F1J0J106A020	CHIP CAPACITOR
C2312	F1J0J106A020	CHIP CAPACITOR
C2313	F1H1H223A219	CHIP CAPACITOR
C2315	F1H0J1050013	CHIP CAPACITOR
C2316	F1H0J1050013	CHIP CAPACITOR
C2321	F1H1H470A004	CHIP CAPACITOR
C2322	F1H1H470A004	CHIP CAPACITOR
C2323	F1H1C104A042	CHIP CAPACITOR
C2324	F1H1C104A042	CHIP CAPACITOR
C2341	F1H1H470A004	CHIP CAPACITOR
C2342	F1H1H470A004	CHIP CAPACITOR
C2357	F1H1H102A219	CHIP CAPACITOR
C2358	F1H1H102A219	CHIP CAPACITOR
C2365	ECEA1EKN4R7B	CAPACITOR
C2371	F1H1H101A720	CHIP CAPACITOR
C2374	F1H1H103A219	CHIP CAPACITOR
C2375	F1H1H101A720	CHIP CAPACITOR
C2376	F1H1C393A001	CHIP CAPACITOR
C2378	F1H0J1050013	CHIP CAPACITOR
C2379	F1J0J106A020	CHIP CAPACITOR
C2380	F1H1H103A219	CHIP CAPACITOR
C2501	F1H0J1050013	CHIP CAPACITOR
C2503	F1H1A225A051	CHIP CAPACITOR
C2505	F2A1C100A207	CAPACITOR ELECTROLITICO
C2507	F1H1A224A007	CHIP CAPACITOR
C2509	F2A1A330A159	CAPACITOR
C2561	F1J0J106A020	CHIP CAPACITOR
C2570	F2A0J470A167	CAPACITOR
C2601	F1H1H101A720	CHIP CAPACITOR
C2602	F1H1H101A720	CHIP CAPACITOR
C2680	F1H1C104A042	CHIP CAPACITOR
C2682	F2A0J470A167	CAPACITOR
C2701	F1H1H103A219	CHIP CAPACITOR
C2702	F2A1E102A207	CAPACITOR
C2703	EEUFC0J821B	OS - CAP
C2704	F1H1H103A219	CHIP CAPACITOR
C2706	F1H1H103A219	CHIP CAPACITOR
C2707	F2A0J101A181	CAPACITOR
C2712	F2A1A330A159	CAPACITOR
C2713	F2A0J470A167	CAPACITOR
C2714	F1H1H103A219	CHIP CAPACITOR
C2715	F1H1H103A219	CHIP CAPACITOR
C2731	F2A1C470A180	E-CAP
C2732	F1H1H103A219	CHIP CAPACITOR
C2733	F2A1E102A207	CAPACITOR
C2734	F1H1H103A219	CHIP CAPACITOR
C2735	F2A1A330A159	CAPACITOR
C2736	F1H1H103A219	CHIP CAPACITOR
C2737	F2A1C470A180	E-CAP
C2738	F1H1H103A219	CHIP CAPACITOR
C2741	F1H1C104A042	CHIP CAPACITOR
C2742	F1H1C104A042	CHIP CAPACITOR
C2743	F1H1H103A219	CHIP CAPACITOR
C2751	F1H1H103A219	CHIP CAPACITOR
C2753	F1H1H103A219	CHIP CAPACITOR
C2754	F2A1C101A208	CAPACITOR ELECTROLITICO
C2755	F1H1H103A219	CHIP CAPACITOR
C2756	F2A1C330A234	CAPACITOR ELECTROLITICO
C2762	F1H1H103A219	CHIP CAPACITOR
C2763	F1H1H103A219	CHIP CAPACITOR
C2764	F2A1C101A208	CAPACITOR ELECTROLITICO
C2765	F2A1C100A207	CAPACITOR ELECTROLITICO
C2766	F1H1H103A219	CHIP CAPACITOR
C2767	F2A1C330A234	CAPACITOR ELECTROLITICO
C2768	F1H1H103A219	CHIP CAPACITOR

C2769	F1H1C474A008	CHIP CAPACITOR
C2800	F1H1C104A042	CHIP CAPACITOR
C2802	F0A2A392A010	CAPACITOR
C2812	F1H0J1050013	CHIP CAPACITOR
C2813	F2A1H3R3A213	CAPACITOR ELECTROLITICO
C2815	ECJ1VC1H150J	CHIP CAP
C2816	ECJ1VC1H150J	CHIP CAP
C2817	F1J1H104A459	CHIP CAPACITOR
C2820	F1J1H103A592	CHIP CAPACITOR
C2837	F1H1C104A042	CHIP CAPACITOR
C2885	F1H1C104A042	CHIP CAPACITOR
C2900	F2A1H470A147	CAPACITOR
C2912	F2A1C101A155	CAPACITOR
C2913	F2A1H470A147	CAPACITOR
C2920	F1J0J106A020	CHIP CAPACITOR
C2932	F1H1H103A219	CHIP CAPACITOR
C2933	F1H1H103A219	CHIP CAPACITOR
C2934	F2A0J471A247	CAPACITOR
C2941	F2A1C470A180	E-CAP
C2942	F1H1C104A042	CHIP CAPACITOR
C2944	F1H1H102A219	CHIP CAPACITOR
C2946	F1H1H103A219	CHIP CAPACITOR
C2947	F2A0J101A181	CAPACITOR
C2948	F2A0J221A181	ECAP
C2949	F2A1H2R2A234	CAPACITOR ELECTROLITICO
C2955	F2A0J101A181	CAPACITOR
C2961	F1H1H102A219	CHIP CAPACITOR
C2963	F1H1C104A042	CHIP CAPACITOR
C2965	F2A1C470A180	E-CAP
C2966	F1H1C104A042	CHIP CAPACITOR
C2967	F2A0J221A181	ECAP
C2968	ECJ2FB0J106M	CAPACITOR
C3105	F1H0J1050013	CHIP CAPACITOR
C3106	F1H0J1050013	CHIP CAPACITOR
C3601	F2A1C221A019	CAPACITOR
C3603	F1H1C105A097	CHIP CAPACITOR
C3701	F2A1H1R0A213	CAPACITOR ELECTROLITICO
C3702	F2A1H1R0A213	CAPACITOR ELECTROLITICO
C3910	F1H1C474A008	CHIP CAPACITOR
C3911	F2A1H1R0A013	CAPACITOR
C3912	F2A1H2R2A013	Electrolitic cap
C3920	F1J0J106A020	CHIP CAPACITOR
C3921	F1J0J106A020	CHIP CAPACITOR
C3922	F1H0J4750003	CHIP CAPACITOR
C3923	F1H0J4750003	CHIP CAPACITOR
C5000	ECJ1VB1H102K	CHIP CAP
C5001	ECJ1VB1H102K	CHIP CAP
C5002	F1H1A474A001	CHIP CAPACITOR
C5003	F1H1A474A001	CHIP CAPACITOR
C5004	F1H1A474A001	CHIP CAPACITOR
C5005	F1H1A474A001	CHIP CAPACITOR
C5006	ECJ1VB1H331K	CHIP CAPACITOR
C5007	ECJ1VB1H331K	CHIP CAPACITOR
C5008	ECJ1VB1H153K	CHIP CAPACITOR
C5009	ECJ1VB1H153K	CHIP CAPACITOR
C5010	ECJ2VC2A221J	CHIP CAPACITOR
C5011	ECJ2VC2A221J	CHIP CAPACITOR
C5012	ECJ2VC2A221J	CHIP CAPACITOR
C5013	ECJ2VC2A221J	CHIP CAPACITOR
C5014	ECQV1H684JL3	CAPACITOR
C5015	ECQV1H684JL3	CAPACITOR
C5016	ECJ1VB1H104K	CAPACITOR CHIP
C5017	ECJ1VB1H104K	CAPACITOR CHIP
C5018	F1K2A1040007	CHIP CAPACITOR
C5019	ECJ1VB1H104K	CAPACITOR CHIP
C5020	ECJ1VB1H104K	CAPACITOR CHIP
C5021	ECJ1VB1H104K	CAPACITOR CHIP
C5022	ECJ1VB1H104K	CAPACITOR CHIP
C5023	F1K2A1040007	CHIP CAPACITOR
C5024	ECJ1VB1H104K	CAPACITOR CHIP
C5025	ECJ1VB1H104K	CAPACITOR CHIP
C5027	ECJ1VB1H104K	CAPACITOR CHIP
C5028	ECJ1VB1H104K	CAPACITOR CHIP
C5030	ECJ1VC1H330J	CHIP CAPACITOR
C5031	ECJ1VB1C474K	CHIP CAPACITOR
C5032	ECJ1VB1H102K	CHIP CAP
C5033	ECJ1VB1H104K	CAPACITOR CHIP
C5040	F2A2A2200035	CAPACITOR
C5050	ECJ1VB1H102K	CHIP CAP
C5051	ECJ1VB1H102K	CHIP CAP
C5052	ECJ1VB1H102K	CHIP CAP
C5053	ECJ1VB1H102K	CHIP CAP

	C5106	F1H1A474A001	CHIP CAPACITOR
	C5107	F1H1A474A001	CHIP CAPACITOR
	C5117	ECJ1VB1H102K	CHIP CAP
	C5119	ECJ1VB1H102K	CHIP CAP
	C5120	F1H1A474A001	CHIP CAPACITOR
	C5121	F1H1A474A001	CHIP CAPACITOR
	C5133	F2A0J101A245	ELECTROLYTIC CAPACITOR
	C5150	ECJ1VB1H102K	CHIP CAP
	C5151	ECJ1VB1H102K	CHIP CAP
	C5152	ECJ1VB1H102K	CHIP CAP
	C5200	ECJ1VB1H104K	CAPACITOR CHIP
	C5201	ECJ1VB1H153K	CHIP CAPACITOR
	C5202	ECJ1VB1C474K	CHIP CAPACITOR
	C5203	ECJ2VC2A221J	CHIP CAPACITOR
	C5204	ECJ1VB1H153K	CHIP CAPACITOR
	C5205	ECJ2VC2A221J	CHIP CAPACITOR
	C5206	ECJ1VB1H104K	CAPACITOR CHIP
	C5207	F1K2A1040007	CHIP CAPACITOR
	C5208	ECJ1VB1H104K	CAPACITOR CHIP
	C5209	ECJ1VB1H104K	CAPACITOR CHIP
	C5211	ECJ2VC2A221J	CHIP CAPACITOR
	C5212	ECJ1VC1H330J	CHIP CAPACITOR
	C5213	ECJ1VB1H104K	CAPACITOR CHIP
	C5214	ECJ1VB1H104K	CAPACITOR CHIP
	C5216	ECJ1VB1H331K	CHIP CAPACITOR
	C5217	ECJ1VB1H104K	CAPACITOR CHIP
	C5218	ECJ2VC2A221J	CHIP CAPACITOR
	C5219	F1K2A1040007	CHIP CAPACITOR
	C5220	ECJ1VB1H104K	CAPACITOR CHIP
	C5221	ECJ1VB1H102K	CHIP CAP
	C5222	F1H1A474A001	CHIP CAPACITOR
	C5223	F1H1A474A001	CHIP CAPACITOR
	C5224	ECJ1VB1H331K	CHIP CAPACITOR
	C5225	ECQV1H684JL3	CAPACITOR
	C5226	ECJ1VB1H104K	CAPACITOR CHIP
	C5227	ECJ1VB1H104K	CAPACITOR CHIP
	C5228	ECQV1H684JL3	CAPACITOR
	C5231	ECJ1VB1H102K	CHIP CAP
	C5232	F1H1A474A001	CHIP CAPACITOR
	C5233	F1H1A474A001	CHIP CAPACITOR
	C5234	ECJ1VB1H102K	CHIP CAP
	C5240	F2A2A2200035	CAPACITOR
	C5250	ECJ1VB1H102K	CHIP CAP
	C5251	ECJ1VB1H102K	CHIP CAP
	C5331	ECJ1VB1H102K	CHIP CAP
	C5400	ECQV1H684JL3	CAPACITOR
	C5401	ECJ1VB1H104K	CAPACITOR CHIP
	C5402	ECJ1VB1H104K	CAPACITOR CHIP
	C5403	ECJ1VB1H104K	CAPACITOR CHIP
	C5404	ECJ1VB1H331K	CHIP CAPACITOR
	C5405	ECJ1VB1H104K	CAPACITOR CHIP
	C5406	ECJ1VB1H104K	CAPACITOR CHIP
	C5407	ECJ2VC2A221J	CHIP CAPACITOR
	C5409	ECJ1VB1H104K	CAPACITOR CHIP
	C5410	F1K2A1040007	CHIP CAPACITOR
	C5411	ECJ2VC2A221J	CHIP CAPACITOR
	C5412	ECJ1VB1H331K	CHIP CAPACITOR
	C5413	ECJ1VB1H104K	CAPACITOR CHIP
	C5416	ECJ1VB1H104K	CAPACITOR CHIP
	C5418	ECJ1VB1H104K	CAPACITOR CHIP
	C5419	F1K2A1040007	CHIP CAPACITOR
	C5421	ECJ1VB1C474K	CHIP CAPACITOR
	C5422	ECJ1VB1H153K	CHIP CAPACITOR
	C5423	ECJ1VC1H330J	CHIP CAPACITOR
	C5424	ECJ1VB1H153K	CHIP CAPACITOR
	C5425	ECJ2VC2A221J	CHIP CAPACITOR
	C5426	ECJ2VC2A221J	CHIP CAPACITOR
	C5427	ECJ1VB1H104K	CAPACITOR CHIP
	C5428	ECQV1H684JL3	CAPACITOR
	C5431	ECJ1VB1H102K	CHIP CAP
	C5440	F2A2A2200035	CAPACITOR
	C5445	ECJ1VB1H104K	CAPACITOR CHIP
	C5450	ECJ1VB1H104K	CAPACITOR CHIP
	C5508	F2A1V4710074	CAPACITOR
	C5509	F2A1V4710074	CAPACITOR
	C5510	F2A1V4710074	CAPACITOR
	C5511	F2A1V4710074	CAPACITOR
	C5512	F2A1V4710074	CAPACITOR
	C5513	F2A1V4710074	CAPACITOR
	C5514	ECJ1VB1H104K	CAPACITOR CHIP
	C5515	ECJ1VB1H104K	CAPACITOR CHIP
	C5518	ECJ1VB1H104K	CAPACITOR CHIP

	C5519	ECJ1VB1H104K	CAPACITOR CHIP
	C5520	ECJ1VB1H104K	CAPACITOR CHIP
	C5521	ECJ1VB1H104K	CAPACITOR CHIP
	C5522	ECJ1VB1H104K	CAPACITOR CHIP
	C5523	ECJ1VB1H104K	CAPACITOR CHIP
	C5550	ECJ1VB1H103K	CHIP CAPACITOR
	C5551	ECJ1VB1H391K	CHIP CAPACITOR
	C5552	ECJ1VB1H391K	CHIP CAPACITOR
	C5553	ECJ1VC1H101J	CAPACITOR
	C5554	ECJ1VB1H104K	CAPACITOR CHIP
	C5555	F1K1C1060001	CHIP CAPACITOR
	C5556	ECJ1VB1H103K	CHIP CAPACITOR
	C5557	ECJ1VC1H101J	CAPACITOR
	C5558	ECJ1VC1H470J	CAPACITOR
	C5559	ECJ1VC1H470J	CAPACITOR
	C5601	ECA1CAK100XB	CAPACITOR ELECTROLITICO
△	C5700	F1BAF1020020	CAPACITOR
△	C5701	F0CAF334A087	CAPACITOR
△	C5703	F0CAF224A085	CAPACITOR
△	C5704	F1BAF1020020	CAPACITOR
△	C5705	F1BAF1020020	CAPACITOR
	C5712	F2B2D8210010	CHIP CAPACITOR
	C5713	F0C2J1030007	CAPACITOR
	C5720	ECJ1VB1H104K	CAPACITOR CHIP
	C5721	ECJ1VB1H221K	CHIP CAPACITOR
	C5722	ECJ1VB1H102K	CHIP CAP
	C5723	ECJ1VB1H471K	CHIP CAPACITOR
	C5724	F2A1H5600009	CHIP CAPACITOR
	C5725	ECJ1VB1H104K	CAPACITOR CHIP
	C5726	ECJ1VB1H104K	CAPACITOR CHIP
	C5727	F1B3A3320012	CAPACITOR
	C5728	ECJ1VB1H102K	CHIP CAP
	C5730	ECEA1HKS010B	CAPACITOR
	C5790	ECJ3YB2J222K	CHIP CAPACITOR
	C5791	F2A1H2R2A213	CAPACITOR ELECTROLITICO
	C5794	ECJ1VC1H220J	CHIP CAP
	C5795	F1J1H473A022	CHIP CAPACITOR
	C5796	F1J1H104A717	CERAMIC CAPACITOR
	C5797	F1A3A470A023	CHIP CAPACITOR
	C5798	F2A1H5600009	CHIP CAPACITOR
	C5805	F2B1V332A007	CAPACITOR
	C5808	F2B1V332A007	CAPACITOR
	C5810	ECJ1VB1H104K	CAPACITOR CHIP
	C5812	ECJ1VB1H104K	CAPACITOR CHIP
	C5813	F2A1V4710035	CAPACITOR
	C5815	ECJ1VB1H104K	CAPACITOR CHIP
	C5816	F2A1E471A652	CAPACITOR
	C5817	F2A2AR22A358	CAPACITOR
	C5818	ECJ1VB1H104K	CAPACITOR CHIP
	C5819	F1J2E1030004	CHIP CAPACITOR
	C5820	F1J2E1030004	CHIP CAPACITOR
	C5821	F1J2E1030004	CHIP CAPACITOR
	C5822	F1J2E1030004	CHIP CAPACITOR
	C5823	ECJ1VB1H104K	CAPACITOR CHIP
	C5824	F2A1E471A652	CAPACITOR
	C5825	ECJ1VB1H104K	CAPACITOR CHIP
	C5831	ECJ1VB1H104K	CAPACITOR CHIP
	C5832	ECJ1VB1H104K	CAPACITOR CHIP
	C5839	F1J2E1030004	CHIP CAPACITOR
	C5840	F1J2E1030004	CHIP CAPACITOR
	C5841	F1J2E1030004	CHIP CAPACITOR
	C5842	F1J2E1030004	CHIP CAPACITOR
	C5869	ECJ1VB1H104K	CAPACITOR CHIP
	C5870	F1H1H104A013	CHIP CAPACITOR
	C5896	ECJ1VB1H104K	CAPACITOR CHIP
	C5898	ECJ1VB1H104K	CAPACITOR CHIP
	C5899	F2A1C221A104	CAPACITOR
	C6300	F1H1H102A219	CHIP CAPACITOR
	C6501	F1H1H101A720	CHIP CAPACITOR
	C6502	F1H1H101A720	CHIP CAPACITOR
	C6503	F1H1H102A219	CHIP CAPACITOR
	C6512	F1H1H102A219	CHIP CAPACITOR
	C6601	F1H1H101A720	CHIP CAPACITOR
	C6608	F1H1H104A013	CHIP CAPACITOR
	C6609	F1H1H104A013	CHIP CAPACITOR
	C6611	F1H1H331A013	CHIP CAPACITOR
	C6612	F1H1H331A013	CHIP CAPACITOR
	C6613	F1H1H331A013	CHIP CAPACITOR
	C6614	F1H1H103A219	CHIP CAPACITOR
	C6616	F2A1H220A182	CAPACITOR ELECTROLITICO
	C6633	F1H1H101A720	CHIP CAPACITOR
	C6634	F1H1H101A720	CHIP CAPACITOR

	C6671	F2A1H220A182	CAPACITOR ELECTROLITICO
	C6801	F1H1H473A783	CHIP CAPACITOR
	C6802	F1H1H473A783	CHIP CAPACITOR
	C6803	F1H1C104A042	CHIP CAPACITOR
	C6804	F1H1C104A042	CHIP CAPACITOR
	C6811	F1H0J1050013	CHIP CAPACITOR
	C6812	F1H0J1050013	CHIP CAPACITOR
	C6813	F1H1H331A013	CHIP CAPACITOR
	C6814	F1H1H331A013	CHIP CAPACITOR
	C6815	F1H1H103A219	CHIP CAPACITOR
	C6816	F1H1H103A219	CHIP CAPACITOR
	C6851	F1H1C104A042	CHIP CAPACITOR
	C6863	F1H1C104A042	CHIP CAPACITOR
	C6882	F1H1H101A230	CHIP CAPACITOR
	C6883	F1H1H101A230	CHIP CAPACITOR