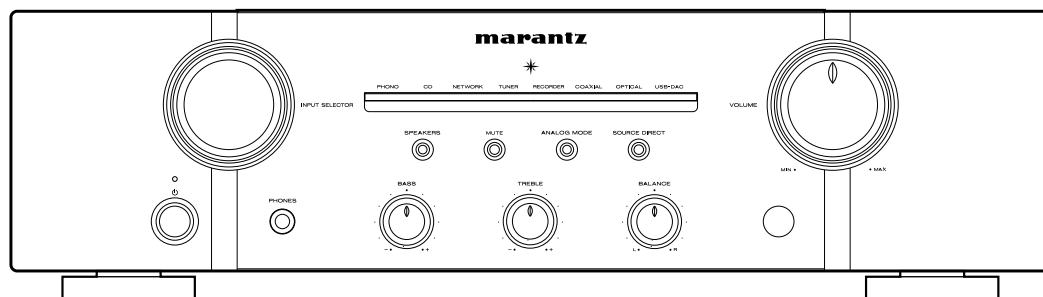


Service Manual

PM7005 /N1B, N1SG, U1B, K1B,
FN

Integrated Amplifier



• For purposes of improvement, specifications and design are subject to change without notice.

• Please use this service manual with referring to the operating instructions without fail.

• Some illustrations using in this service manual are slightly different from the actual set.

marantz®

PM7005

Ver. 3

Please refer to the
MODIFICATION NOTICE.

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ABOUT THIS MANUAL

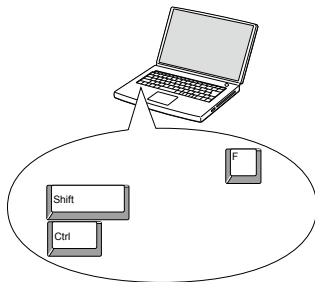
Read the following information before using the service manual.

What you can do with this manual

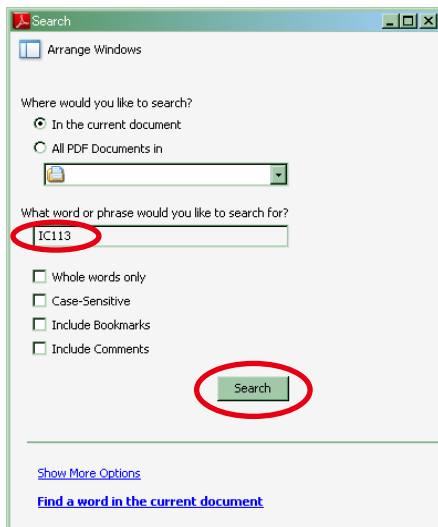
Search for a Ref. No. (phrase) (Ctrl+Shift+F)

You can use the search function in Acrobat Reader to search for a Ref. No. in schematic diagrams, block diagrams, and parts lists.

1. Press **Ctrl+Shift+F** on the keyboard.
- The Search window appears.



2. Enter the Ref. No. you want to search for in the Search window, and then click the **Search** button.
- A list of search results appears.

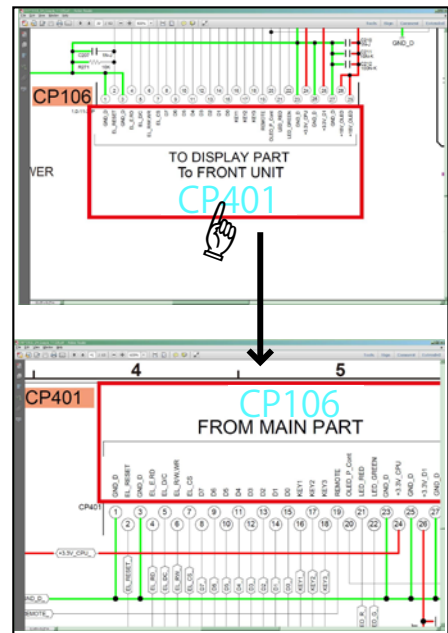


3. Click an item on the list.
- The screen jumps to the page for that item, and the search phrase is displayed.

Jump to the target of a schematic diagram connector

Click the Ref. No. of the target connector in the red box around a schematic diagram connector.

- The screen jumps to the target connector.



- Page magnification stays the same as before the jump.

Using Adobe Reader (Windows version)

Add notes to this data (Sign)

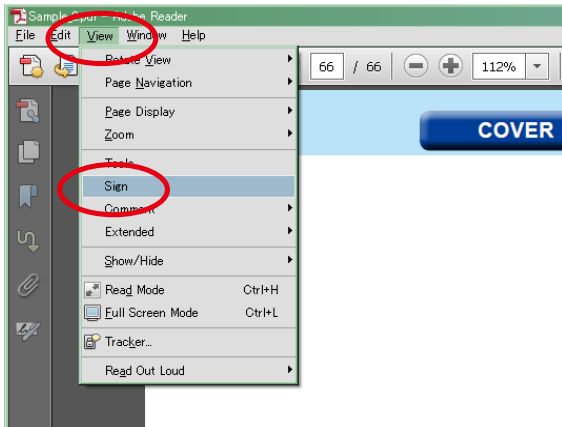
The Sign function lets you add notes to the data in this manual.

Save the file once you have finished adding notes.

[Example using Adobe Reader X]

On the "View" menu, click "Sign".

- The Sign pane appears.



[Example using Adobe Reader 9]

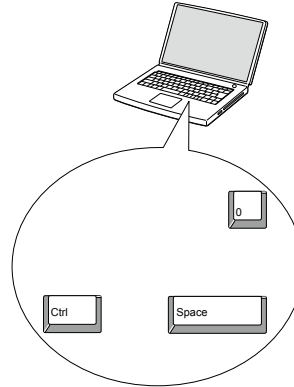
On the "Document" menu, click "Sign".

Magnify schematic / printed wiring board diagrams - 1

(Ctrl+Space, mouse operation)

Press **Ctrl+Space** on the keyboard and drag the mouse to select the area you want to view.

- The selected area is magnified.

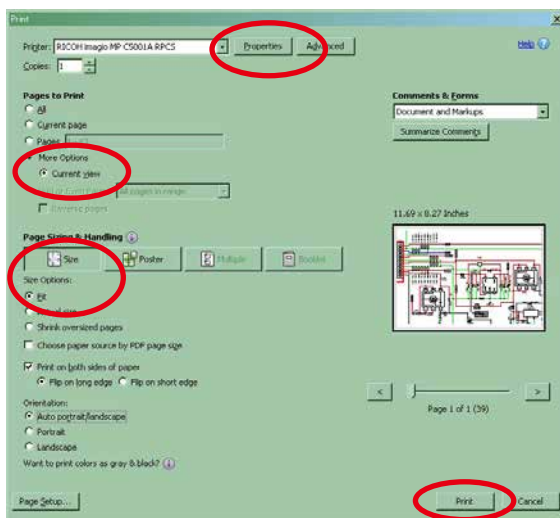


- When you want to move the area shown, hold down **Space** and drag the mouse.
- When you want to show a full page view, press **Ctrl+0** on the keyboard.

Print a magnified part of the manual

The Properties dialog box and functions will vary depending on your printer.

1. Drag the mouse to magnify the part you want to print.
2. On the "File" menu, click "Print".
3. Configure the following settings in the Print dialog box.



4. Click the **Print** button to start printing.

• Properties

Click this button and check that the printer is set to a suitable paper size.

• Page to print

Select the following checkbox.

"More Options" : "Current View"

• Page Sizing & Handling

Select the following checkbox.

"Size" / "Size Options" : "Fit"

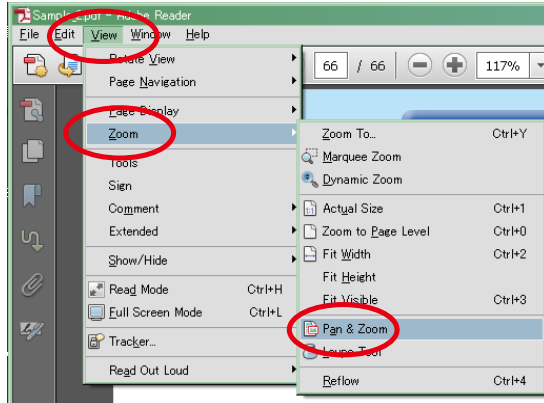
Magnify schematic / printed wiring board diagrams - 2

(Pan & Zoom function)

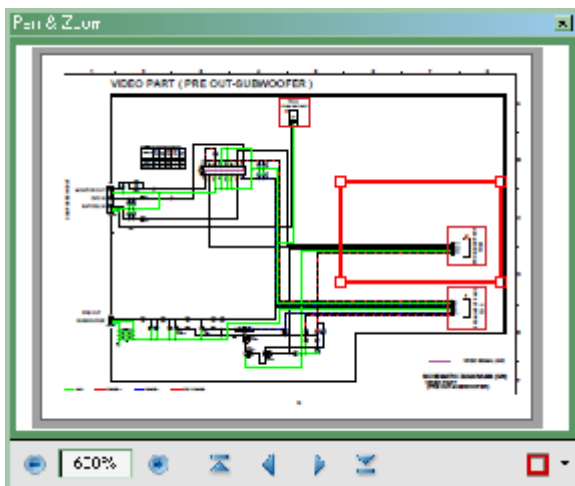
The Pan & Zoom function lets you see which part of a magnified diagram is being shown in a separate window.

[Example using Adobe Reader X]

On the "View" menu, point to "Zoom", and then click "Pan & Zoom".



- The Pan & Zoom window appears on the screen.



[Example using Adobe Reader 9]

On the "Tools" menu, point to "Select & Zoom", and then click "Pan & Zoom Window".

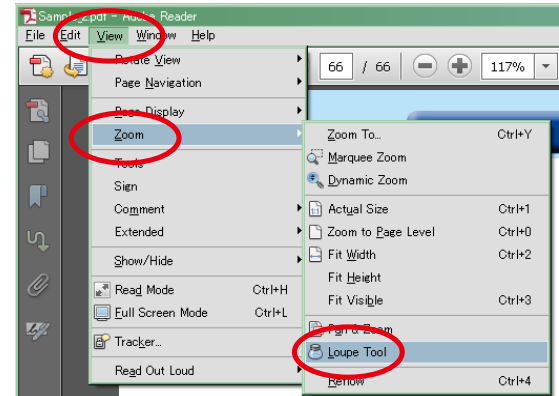
Magnify schematic / printed wiring board diagrams - 3

(Loupe Tool function)

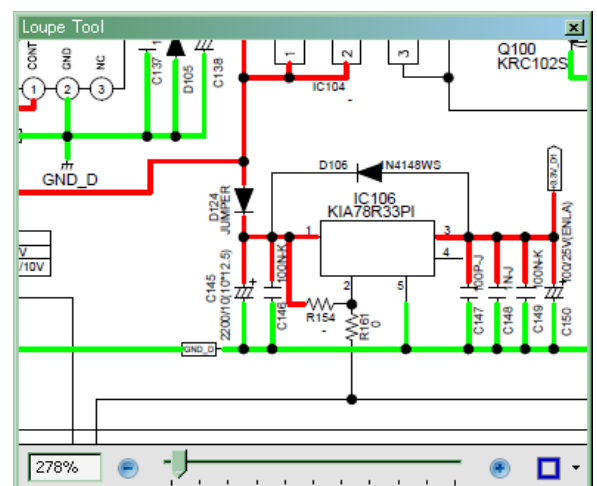
The Loupe Tool function lets you magnify a specific part of a diagram in a separate window.

[Example using Adobe Reader X]

On the "View" menu, point to "Zoom", and then click "Loupe Tool".



- The Loupe Tool window appears on the screen.



[Example using Adobe Reader 9]

On the "Tools" menu, point to "Select & Zoom", and then click "Loupe Tool Window".

SAFETY PRECAUTIONS

The following items should be checked for continued protection of the customer and the service technician.

leakage current check

Before returning the set to the customer, be sure to carry out either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the set is defective.

Be sure to test for leakage current with the AC plug in both polarities, in addition, when the set's power is in each state (on, off and standby mode), if applicable.

CAUTION Please heed the following cautions and instructions during servicing and inspection.

⊙ Heed the cautions!

Cautions which are delicate in particular for servicing are labeled on the cabinets, the parts and the chassis, etc. Be sure to heed these cautions and the cautions described in the handling instructions.

⊙ Cautions concerning electric shock!

- (1) An AC voltage is impressed on this set, so if you touch internal metal parts when the set is energized, you may get an electric shock. Avoid getting an electric shock, by using an isolating transformer and wearing gloves when servicing while the set is energized, or by unplugging the power cord when replacing parts, for example.
- (2) There are high voltage parts inside. Handle with extra care when the set is energized.

⊙ Caution concerning disassembly and assembly!

Through great care is taken when parts were manufactured from sheet metal, there may be burrs on the edges of parts. The burrs could cause injury if fingers are moved across them in some rare cases. Wear gloves to protect your hands.

⊙ Use only designated parts!

The set's parts have specific safety properties (fire resistance, voltage resistance, etc.). Be sure to use parts which have the same properties for replacement. The burrs have the same properties. In particular, for the important safety parts that are indicated by the ⚠ mark on schematic diagrams and parts lists, be sure to use the designated parts.

⊙ Be sure to mount parts and arrange the wires as they were originally placed!

For safety reasons, some parts use tapes, tubes or other insulating materials, and some parts are mounted away from the surface of printed circuit boards. Care is also taken with the positions of the wires by arranging them and using clamps to keep them away from heating and high voltage parts, so be sure to set everything back as it was originally placed.

⊙ Make a safety check after servicing!

Check that all screws, parts and wires removed or disconnected when servicing have been put back in their original positions, check that no serviced parts have deteriorate the area around. Then make an insulation check on the external metal connectors and between the blades of the power plug, and otherwise check that safety is ensured.

(Insulation check procedure)

Unplug the power cord from the power outlet, disconnect the antenna, plugs, etc., and on the power. Using a 500V insulation resistance tester, check that the insulation resistance value between the inplug and the externally exposed metal parts (antenna terminal, headphones terminal, input terminal, etc.) is 1MΩ or greater. If it is less, the set must be inspected and repaired.

CAUTION Concerning important safety parts

Many of the electric and the structural parts used in the set have special safety properties. In most cases these properties are difficult to distinguish by sight, and the use of replacement parts with higher ratings (rated power and withstand voltage) does not necessarily guarantee that safety performance will be preserved. Parts with safety properties are indicated as shown below on the wiring diagrams and the parts list in this service manual. Be sure to replace them with the parts which have the designated part number.

- (1) Schematic diagrams.....Indicated by the ⚠ mark.
- (2) Parts lists.....Indicated by the ⚠ mark.

The use of parts other than the designated parts could cause electric shocks, fires or other dangerous situations.

NOTE FOR SCHEMATIC DIAGRAM

WARNING:

Parts indicated by the $\triangle$ mark have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.

CAUTION:

Before returning the set to the customer, be sure to carry out either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the set is defective.

WARNING:

DO NOT return the set to the customer unless the problem is identified and remedied.

NOTICE:

ALL RESISTANCE VALUES IN OHM. k=1,000 OHM / M=1,000,000 OHM

ALL CAPACITANCE VALUES ARE EXPRESSED IN MICRO FARAD, UNLESS OTHERWISE INDICATED. P INDICATES MICRO-MICRO FARAD. EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION. CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

NOTE FOR PARTS LIST

1. Parts indicated by "nsp" on this table cannot be supplied.
2. When ordering a part, make a clear distinction between "1" and "I" (i) to avoid mis-supplying.
3. A part ordered without specifying its part number can not be supplied.
4. Part indicated by "★" mark is not illustrated in the exploded view.

WARNING: Parts indicated by the $\triangle$ mark have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.

INSTRUCTIONS FOR HANDLING SEMI-CONDUCTORS AND OPTICAL UNIT

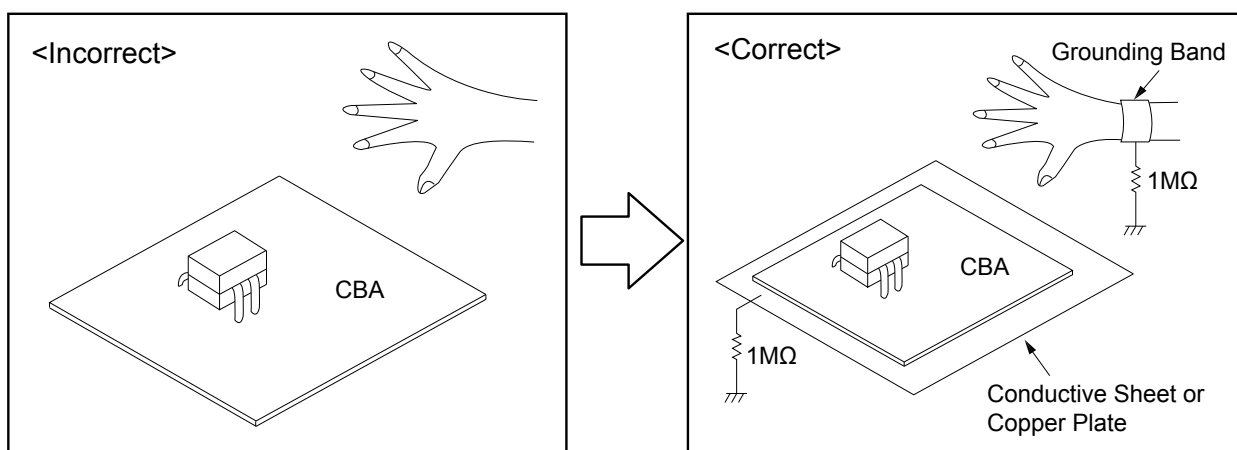
Electrostatic breakdown of the semi-conductors or optical pickup may occur due to a potential difference caused by electrostatic charge during unpacking or repair work.

1. Ground for Human Body

Be sure to wear a grounding band (1 M Ω) that is properly grounded to remove any static electricity that may be charged on the body.

2. Ground for Workbench

Be sure to place a conductive sheet or copper plate with proper grounding (1 M Ω) on the workbench or other surface, where the semi-conductors are to be placed. Because the static electricity charge on clothing will not escape through the body grounding band, be careful to avoid contacting semi-conductors with your clothing



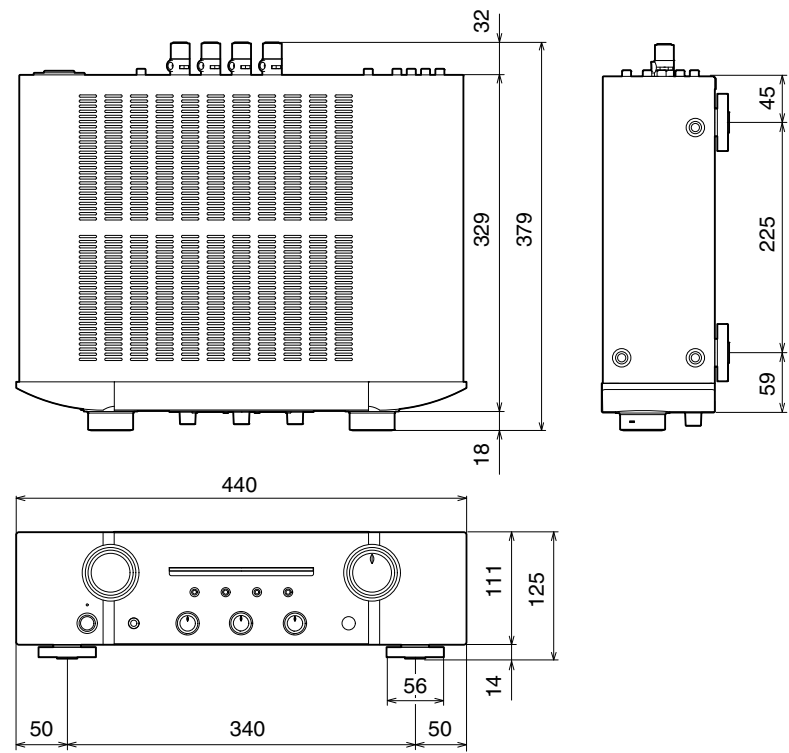
[illegible]

TECHNICAL SPECIFICATIONS

• RMS Power output (20 Hz -20 kHz simultaneous drive of bothchannels) :	60 W x 2 (8 Ω /ohms load) 80 W x 2 (4 Ω /ohms load) 0.02 %
• Total harmonic distortion (20 Hz-20 kHz simultaneous drive of bothchannels, 8 Ω/ohms load) :	
• Output band width (8 Ω /ohms load, 0.06 %) :	5 Hz - 60 kHz
• Frequency response (CD, 1 W, 8 Ω/ohms load) :	5 Hz - 100 kHz ± 3 dB
• Dumping factor (8 Ω /ohms load, 40 Hz-20 kHz) :	100
• Input sensitivity/Input impedance PHONO (MM) :	2.0 mV/47 k Ω /kohms
CD, TUNER, NETWORK, RECORDER :	200 mV/20 k Ω /kohms
• Maximum allowable PHONO input level (1 kHz) MM :	100 mV
• RIAA deviation (20 Hz -20 kHz) :	± 0.5 dB
• S/N (IHF-A, 8 Ω /ohms load) PHONO (MM) :	85 dB (5 mV input, 1 W output)
CD, TUNER, NETWORK, RECORDER :	104 dB (2 V input, Rated output)
• Tone Control BASS (50 Hz) :	± 10 dB
TREBLE (15 kHz) :	± 10 dB
• Power requirement :	(F)AC100V、 50/60Hz (N)AC230V, 50/60Hz (U)AC120V, 60Hz (K)AC220V、 50Hz 170W
• Power consumption :	0.2 W
• Power consumption in standby mode :	
• Digital input signal format Format:	Digital audio interface (Linear PCM)
Coaxial input:	0.5 Vp-p / 75 Ω/ohms
Optical input:	More than – 27 dBm
Optical wavelength:	660 nm

DIMENSION

Unit : mm
Weight: 10.0kg

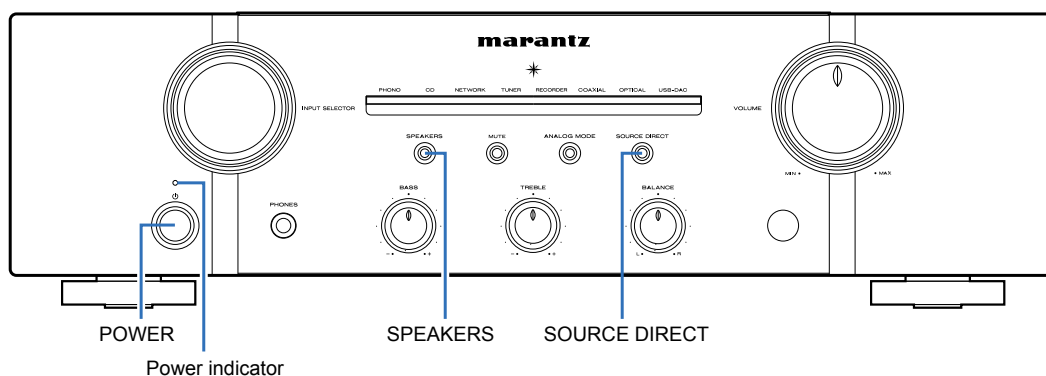


PRECAUTIONS DURING SERVICE

Initializing This Unit

Initialize this unit if you have replaced the microcomputer, one of the parts around the microcomputer.

1. Press the **"POWER"** button to turn off the power.
2. Hold down buttons **"SOURCE DIRECT"** and press the power button to turn on the power.
3. Check the set entered the service mode.(See [18 page](#) SPECIAL MODE)



Cautions:

If replace the DIGITAL PCB of this unit for F, U and K Region, you remove the R0166 (1k ohm).

This resistance is set for the destination settings, and uses the default value of Auto Standby mode.

N Region : Tuning Auto Standby mode OFF by default. F/U/K Region : Tuning Auto Standby mode OFF by default.

Note : [18 page](#) 2. How to change the Auto Standby Mode

Service Jigs

The following jigs are used when updating the firmware

(RS232C → connector conversion PCB in this product + 7P cable kit).

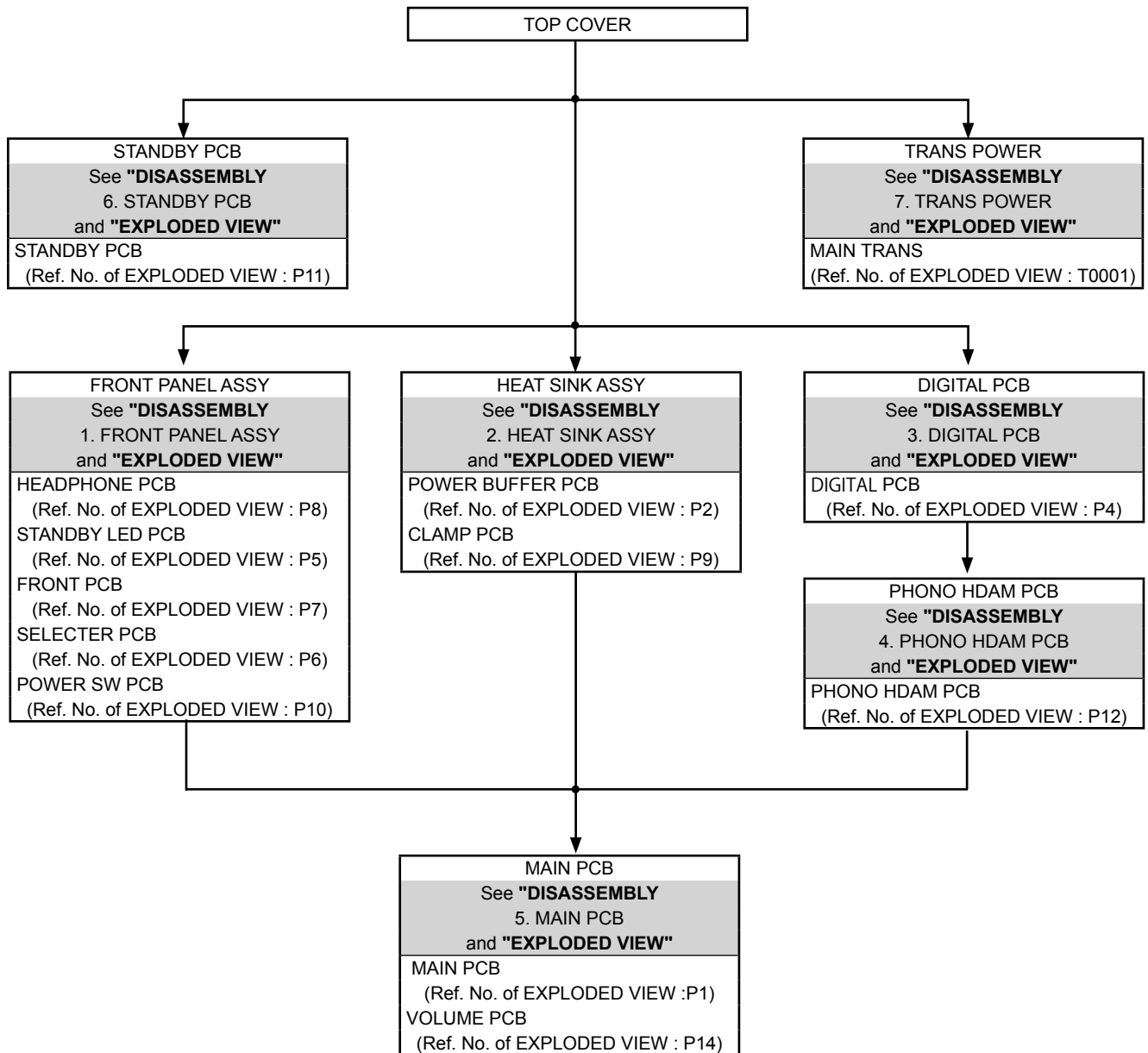
Order the jigs from your dealer if necessary

00DSPK-581	:	WRITING KIT.	1
606050028012P	:	7P FFC (Straight)	1

See : [22 page](#) FIRMWARE UPDATE PROCEDURE

DISASSEMBLY

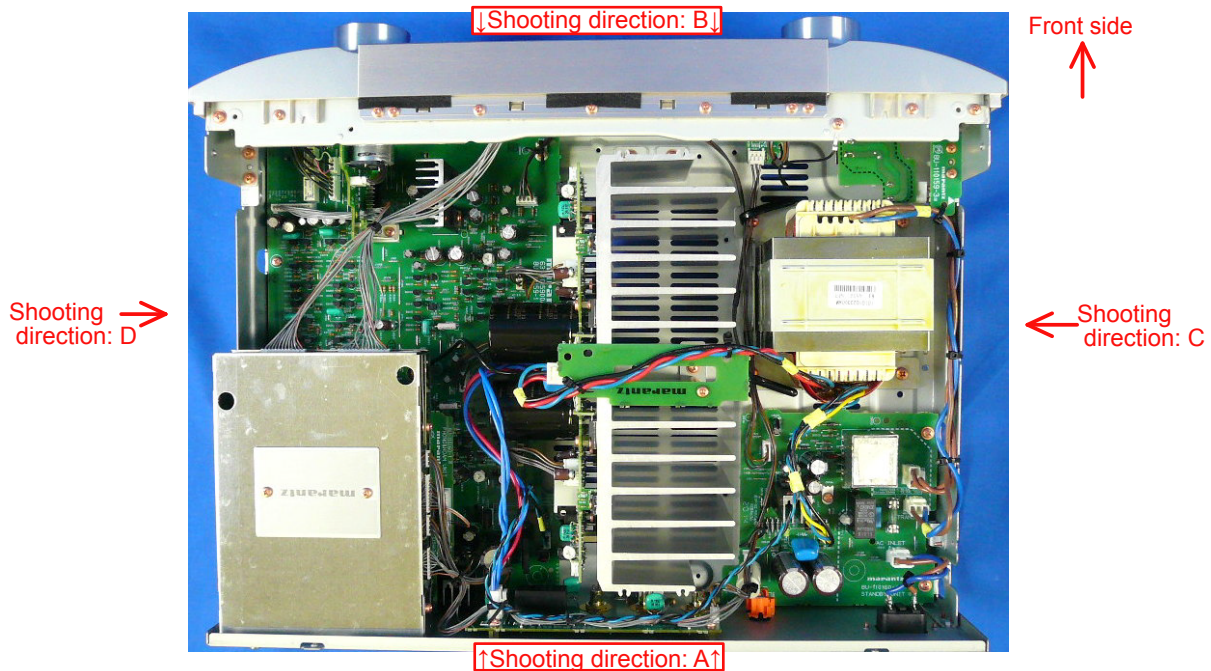
- Remove each part in the order of the arrows below.
- Reassemble removed parts in the reverse order.
- Read "Precautions During Work" before reassembling removed parts.
- If wire bundles are removed or moved during adjustment or part replacement, reshape the wires after completing the work. Failure to shape the wires correctly may cause problems such as noise.



Explanatory Photos for“ DISASSEMBLY”

- The angles from which the photos are taken are shown by “Photo angle: A, B, C, D” .
- See the diagram below about the shooting direction of each photograph.
- Photographs with no shooting direction indicated were taken from the top of the set.
- The photograph is PM7005F.

The viewpoint of each photograph (Shooting direction)



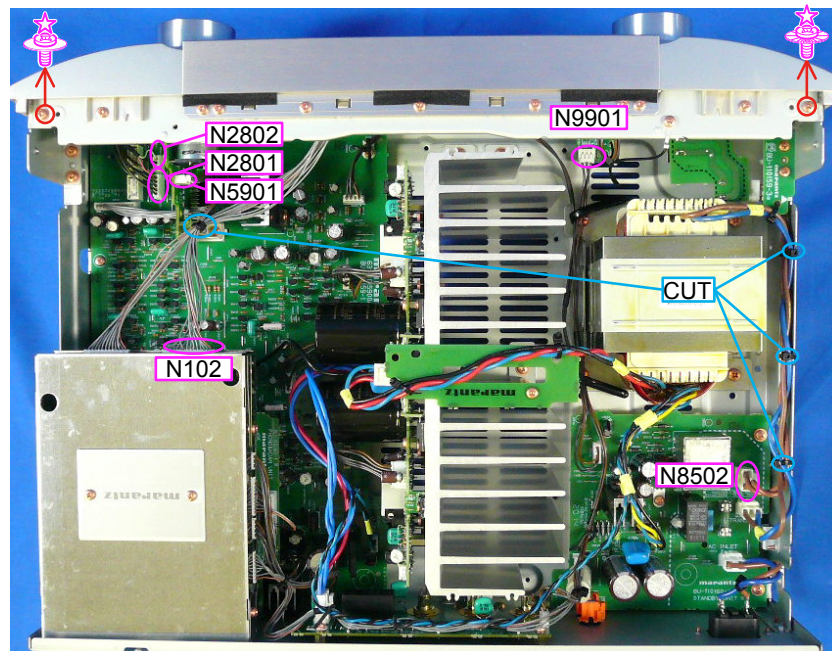
1. FRONT PANEL ASSY

Proceeding : **TOP COVER** → **FRONT PANEL ASSY**

(1) Remove the nut, the washer and screws.



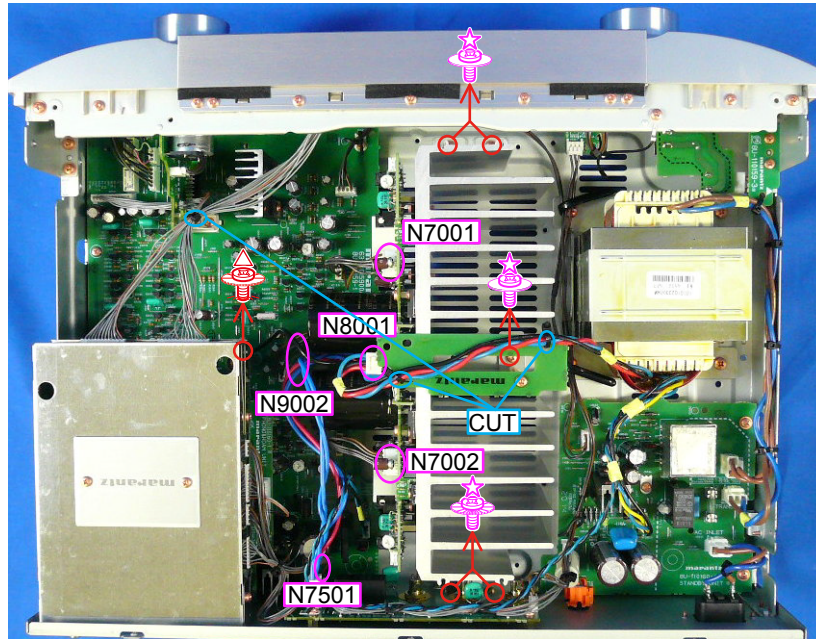
(2) Cut the wire clampers and remove the connector wires. Remove the screws.



2. HEAT SINK ASSY

Proceeding : **TOP COVER** → **HEAT SINK ASSY**

(1) Cut the wire clumper and remove the screws. Remove the connector wires.



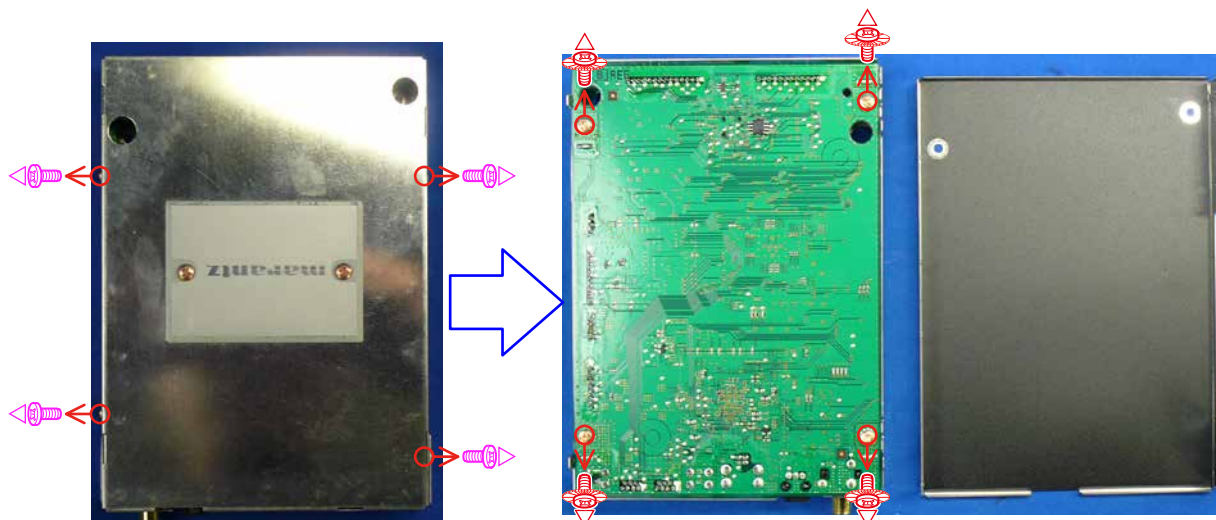
3. DIGITAL PCB

Proceeding : **TOP COVER** → **DIGITAL PCB**

(1) Remove the connector wires. Remove the screws.



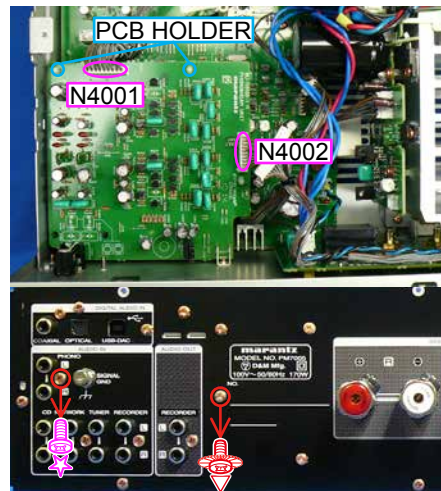
(2) Remove the screws.



4. PHONO HDAM PCB

Proceeding : **TOP COVER** → **DIGITAL PCB** → **PHONO HDAM PCB**

(1) Remove the screws. Remove the connector wires.



5. MAIN PCB

Proceeding : **TOP COVER** → **DIGITAL PCB** → **PHONO HDAM PCB** → **HEAT SINK ASSY** → **MAIN PCB**

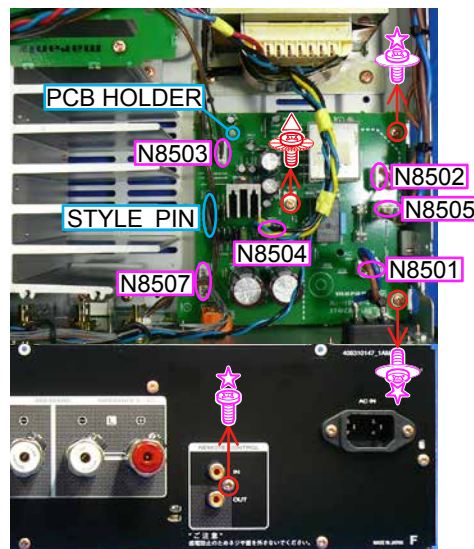
(1) Remove the screws.



6. STANDBY PCB

Proceeding : **TOP COVER** → **STANDBY PCB**

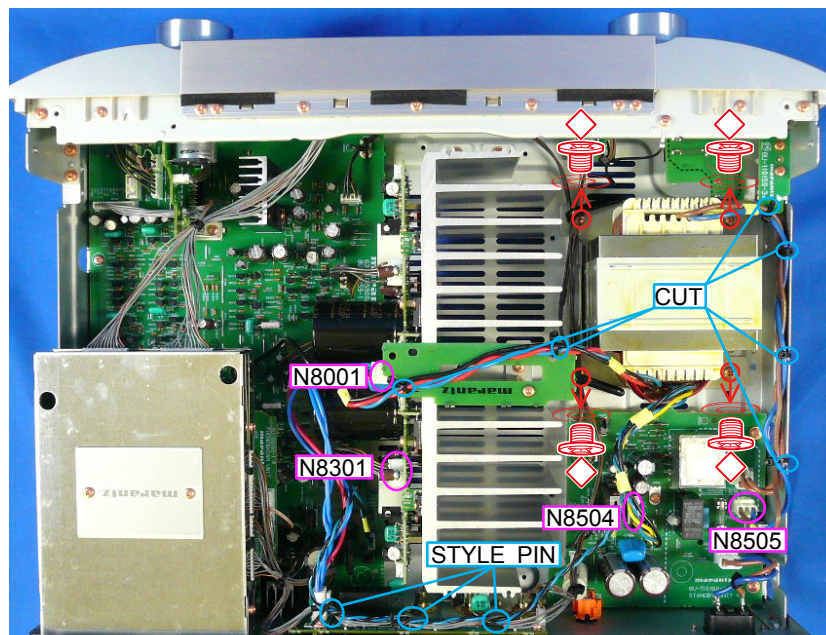
- (1) Remove the connector wires. Remove the screws.



7. TRANS POWER

Proceeding : **TOP COVER** → **TRANS POWER**

- (1) Cut the wire clumper and remove the connector wires. Remove the screws.

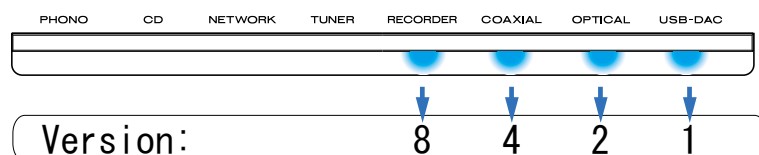


SPECIAL MODE

1. Version Display

Microprocessor (U101) / USB DAC (U401) version check

- (1) Connect the mains cord into the unit.
- (2) Press the POWER button with pressing the SOURCE DIRECT button on the Unit.
- (3) The firmware version is displayed on the front LED. (Display time is only for 3 seconds.)



The firmware version is displayed in the lighting position of LED.

Ex. :

Light up USB-DAC- [1], Version : 1

Light up USB-DAC- [1] and COAXIAL [4], Version : 5

Light up USB-DAC- [1] and RECORDER [8], Version : 9

- (4) The USB-DAC (DSP) version is displayed on the front LED. (Display time is only for 3 seconds.)
Lighting position is same as firmware version.
- (5) Each LED light up then all LED light up.
- (6) Turn off the power to quit Service Mode. (The unit to the default status.)

2. How to change the Auto Standby Mode

Turning Auto Standby mode off.

Press and hold SOURCE DIRECT for more than 5 seconds to turn the Auto Standby mode off.

The power indicator flashes once.

Turning Auto Standby mode on.

Press and hold SOURCE DIRECT for more than 5 seconds to turn the Auto Standby mode on.

The power indicator flashes three times.

N Region : Tuning Auto Standby mode OFF by default. F/U/K Region : Tuning Auto Standby mode OFF by default.

3. PROTECTION MODE

Explanation of microprocessor (**U101**) [PROT_1 (pin26), PROT_2 (pin24), VOLTAGE_PROT (pin25)].

[A] The PROT_1(pin26) is the port to detect the following abnormalities of the Power AMP

1. Detection of an abnormality in the DC offset voltage from the Speaker Output terminal.
If the voltage from the Speaker Output terminal exceeds approximately 1.2V (DC), **Q9507** or **Q9508** will turn on and the signal from the PROT_1 terminal will change to "Lo" from "Hi".
2. Detection of an abnormal current from the power transistors (**Q7011, Q7013, Q7012, Q7014**).
If an electric current of over 7A flows in **Q7011** or **Q7013**, **Q9503, Q9505** and **Q9509** turn on, and the signal from the PROT_1 terminal will change to "Lo" from "Hi".
If an electric current of over 7A flows in **Q7012** or **Q7014**, **Q9504, Q9506** and **Q9509** turn on, and the signal from the PROT_1 terminal will change to "Lo" from "Hi".
3. Detection of an abnormal temperature of the Heat Sink.
If the temperature of the Heat Sink exceeds approximately +110 degrees C, the posistor (**Z9501** or **Z9502**) will turn on **Q9501** or **Q9502** and the signal from the PROT_1 terminal will change to "Lo" from "Hi".

If any of the above three abnormalities is detected, the signal from the PROT_1 terminal will change to "Lo" from "Hi", and the protection circuit will be activated, the signal from the SPK_OUT (pin19) changing to "Hi" from "Lo" and the speaker relays **S7501** and **S7503** immediately turned off.

What this protection operation results in after this depends on how long the signal from the PROT_1 has to remain "Lo".

- If the PROT_1 (pin26) recovers to "Hi" within as short a period of time as one second or less.
The MUTE indicator starts flickering, thereby indicates that the protection circuit has come into operation and automatically turns down the volume. The protection circuit is deactivated after approximately 15 seconds, so that readjusting the volume will allow normal use of the unit again. This protection operation is intended for the situation wherein the user has misused the unit temporarily and automatically resets the unit while the amp circuit is functioning properly.
- If the PROT_1 (pin26) remains "Lo" for more than one second.
The amp will be powered off by the P_ON (pin78) changing to "Lo" from "Hi" and and Power relay **S8501** turned off
Then, the STANDBY indicator flickers, thereby indicating that an error has occurred. This protection operation is intended for a failure in the amp circuit and immediately turns the power off to avoid the risk of any damage.
Depending on how the user is handling the unit, this operation may be performed no matter if the amp is functioning properly.

To check if the amp is in order, switch off the unit and switch it on again one minute later. This action will deactivate the protection operation. If the PROT_1 (pin26) remains "Lo", which constitutes an abnormality, the unit shuts down approximately 3 seconds later and the STANDBY indicator starts flickering.

If the protection operation will not be deactivated after the power is turned on again, the amp circuit may be broken.

[B] The PROT_2 (pin24) is the port to detect abnormalities of the power supply circuit.

1. Detection of an abnormality in the power amp power supply circuit.
This port monitors the midpoint voltage of the power amp power supply between +B and -B. If the voltage at the connection point of **R8001** and **R8002** exceeds DC $\pm 1.2V$, **Q9003** or **Q9004** will turn on to change the signal from the PROT_2 (pin24) to "**Lo**" from "**Hi**".
2. Detection of an abnormality in the preamp power supply circuit.
Q9001 and **Q9002** monitors the midpoint voltage between +28V and -28V. If the voltage at the connection point of **R8109** and **R8110** exceeds DC $\pm 0.9V$, **Q9001** or **Q9002** will turn on to change the signal from the PROT_2 (pin24) to "**Lo**" from "**Hi**".
3. Detection of an abnormality in the function relay power supply circuit.
If the +24VL of the relay power supply receives an electric current of over 80mA, **Q8015** and **Q9001** will turn on to change the signal from the PROT_2 (pin24) to "**Lo**" from "**Hi**".

If any of the above three abnormalities is detected, the signal from the P_ON (pin78) terminal will be changed to "**Lo**" from "**Hi**", the power relay **S8051** will be turned off and the unit will be shut down. Then, the STANDBY indicator flickers and indicates that an abnormality has occurred.

This protection operation is intended for a breakdown of the AMP circuit or the power supply circuit and immediately shuts off the power in order to avoid the risk of damage.

To check if the amp circuit or the power supply circuit is broken, switch off the power and then switch it on again one minute later. This action will deactivate the protection operation.

If the PROT_2 (pin24) remains "**Lo**" after the power is switched on again, the unit will be shut down again three seconds later with the STANDBY indicator flickering.

If the unit is powered on again and yet cannot get the protection operation deactivated, the amp circuit or the power supply circuit may be broken.

[C] The VOLTAGE_PROT (pin25) is the port to detect abnormalities of the power supply circuit for Digital part.

1. Detection of an abnormality in the +5V-DIG, 33_VCC_USB_B or V+3.3D1.

If the +5V-DIG, 33_VCC_USB_B or V+3.3D1 of power supply is not received.

Q703, Q704 and Q705 will turn on to change the signal from the VOLTAGE_PROT (pin25) to "Hi" from "Lo".

If the above abnormality is detected, the signal from the P_ON (pin78) terminal will be changed to "Lo" from "Hi", the power relay **S8501** will be turned off and the unit will be shut down. Then, the STANDBY indicator flickers and indicates that an abnormality has occurred.

This protection operation is intended for a breakdown of the digital power supply circuit and immediately shuts off the power in order to avoid the risk of damage.

To check if the digital power supply circuit is broken, switch off the power and then switch it on again one minute later. This action will deactivate the protection operation.

PROCEDURE AFTER REPLACING THE MICROPROCESSOR, ETC.

The procedure after replacing the u-COM (microprocessor), flash ROM, etc. is as follows.

PCB Name	Ref. No.	Description	Procedure after Replacement	Remark
DIGITAL	U0101	M3062LFGP	C	

Procedure after Replacement

A : The software has been written. The software is not written at the time of replacement.

B : The software has been written. The software may need to be rewritten by version updates. Check the version.

C : The software has not been written. The software needs to be written after replacement.

See " **Firmware Update Procedure** " for information on writing the software.

D : The software has been written. Be sure to rewrite with the latest software for your service region.

See " **Firmware Update Procedure** " for information on writing the software.

FIRMWARE UPDATE PROCEDURE

1. Items to be Prepared

- (1) PC OS is Windows7(32bit or 64bit)
- (2) RS-232C cable (9P (Male), Straight).
- (3) 00DSPK-581:WRITING KIT.
606050028012P:7P FFC (Straight)
- (4) Writing tools and some files. (FLASHSTA.exe, Update file.)

2. Connecting the WRITING KIT to the unit

Disconnect the AC plug of this unit to turn the power off.

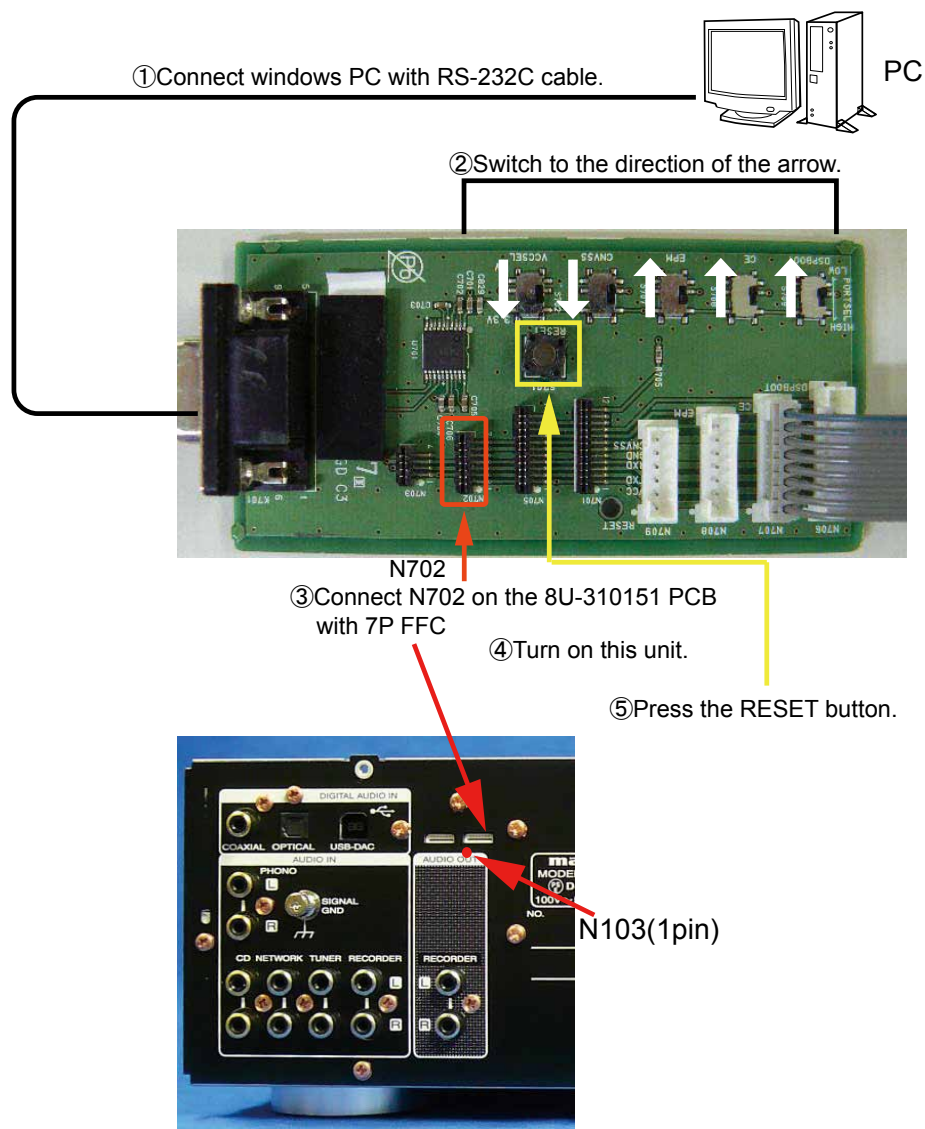
Connect the RS-232C cable from PC with the WRITING KIT.

Connect the WRITING KIT to the update terminal of the unit.

- (1) Prepare the windows PC that installed the FLASHSTA.EXE.



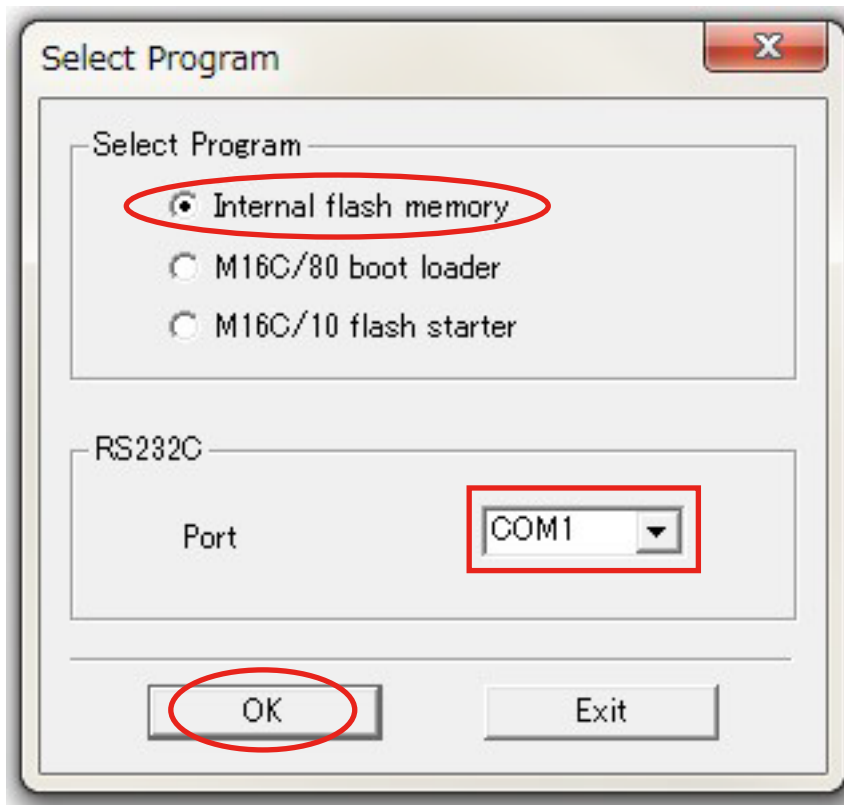
- (2) Connect SPK-581 as follows.



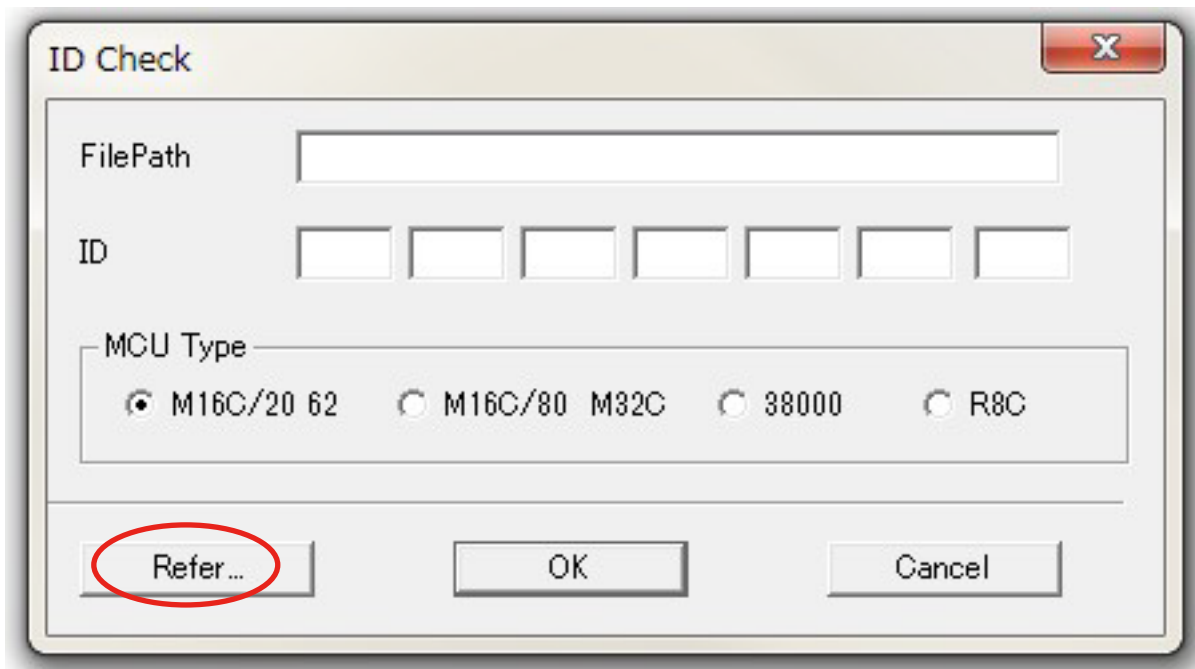
- (3) Double click the FLASHSTA.EXE. And launch the M16 Flash Start.



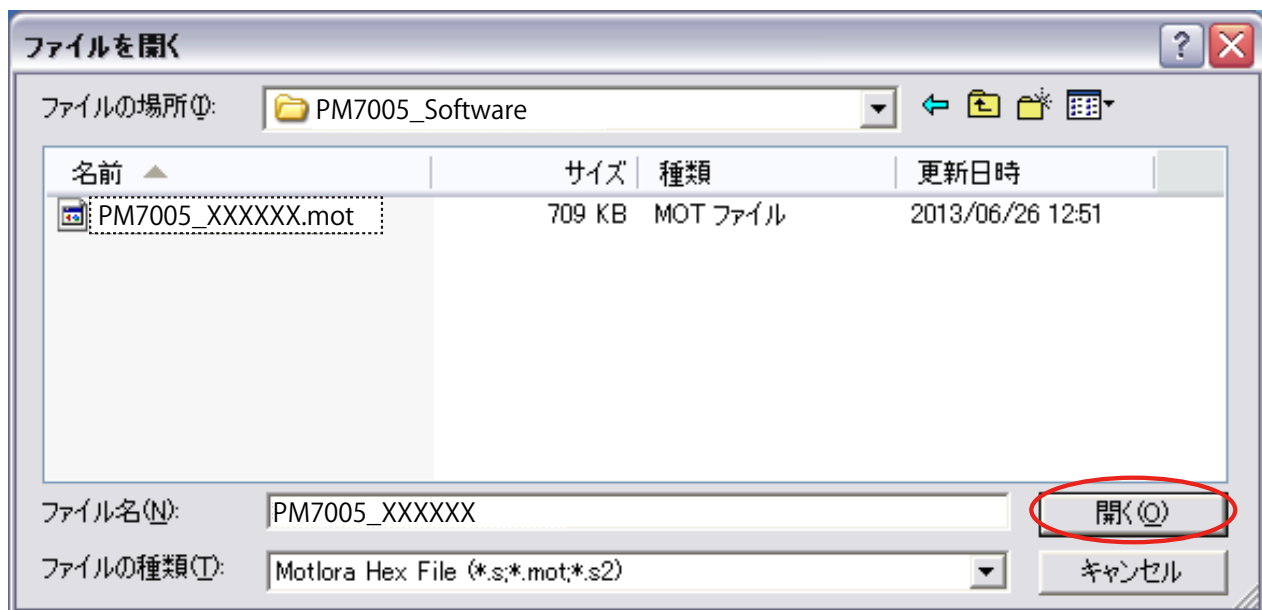
- (4) Check the Internal flash memory in the Select Program.
Choose the COM Port number.
And click the OK..



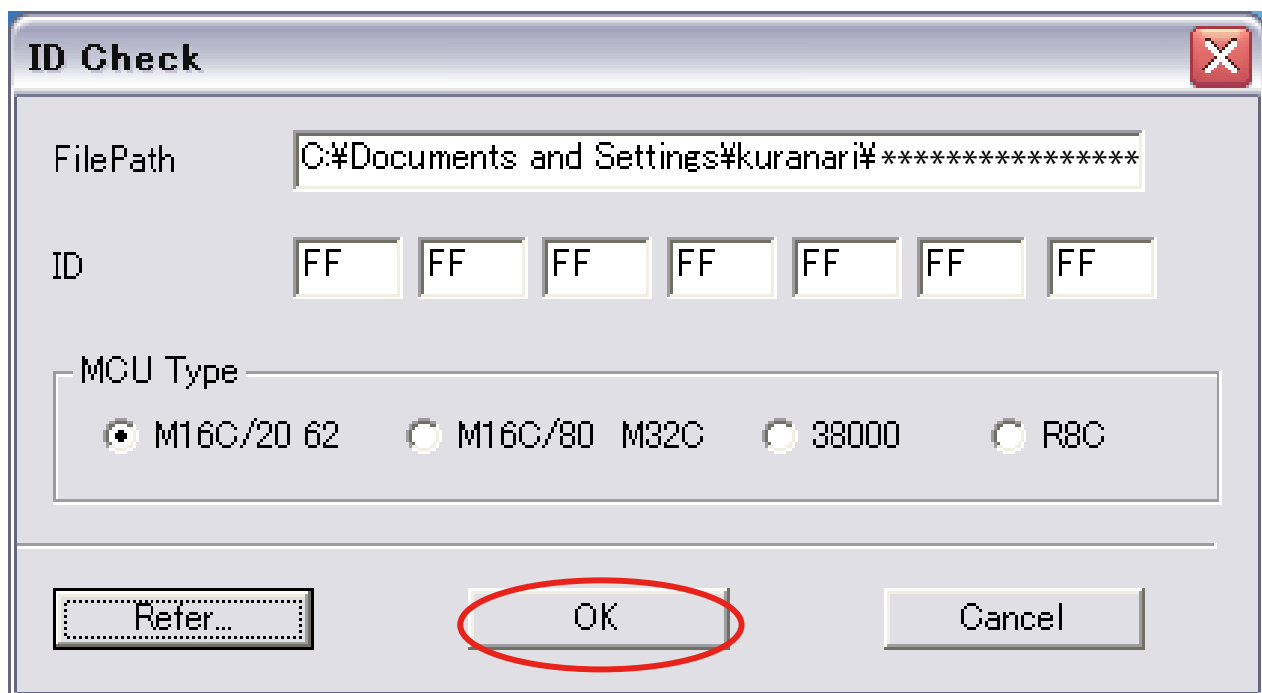
- (5) Click the Refer....



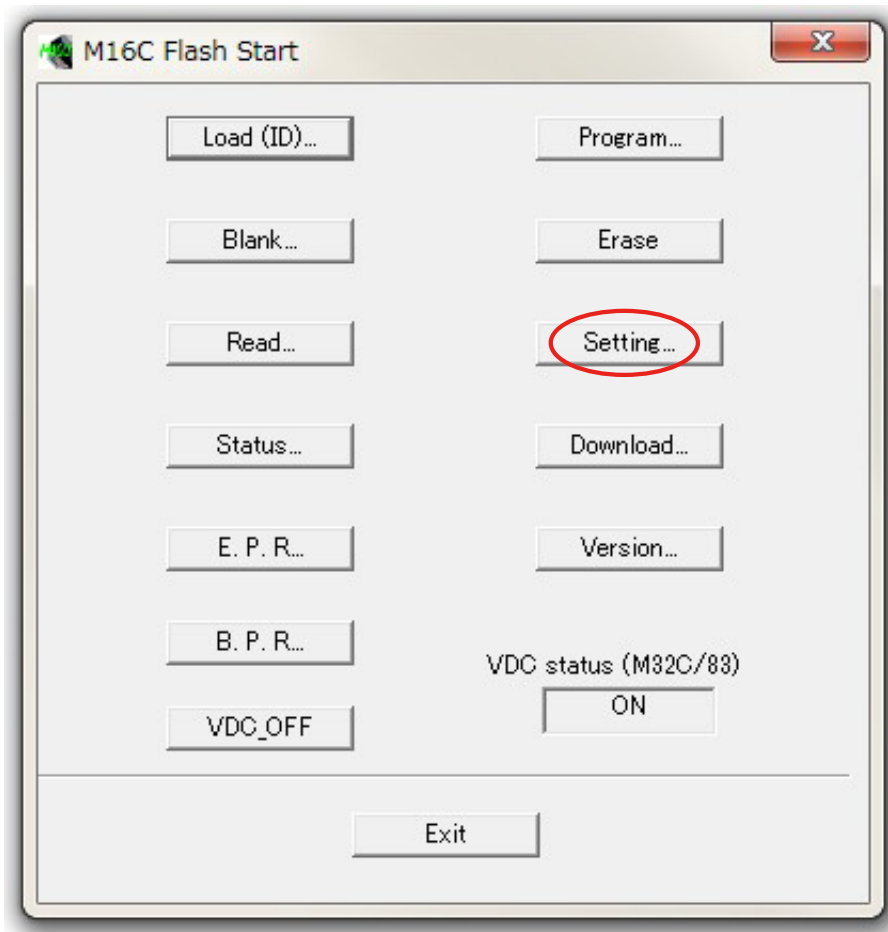
- (6) Select the file and click the OPEN.



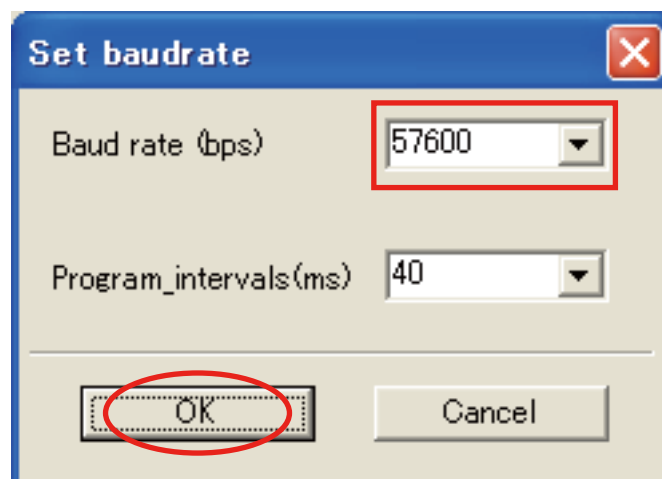
- (7) The FilePath and ID are inputted automatically, and the MCU Type is selected to M16C/20 62 automatically. Click the OK.



(8) Click the Setting....

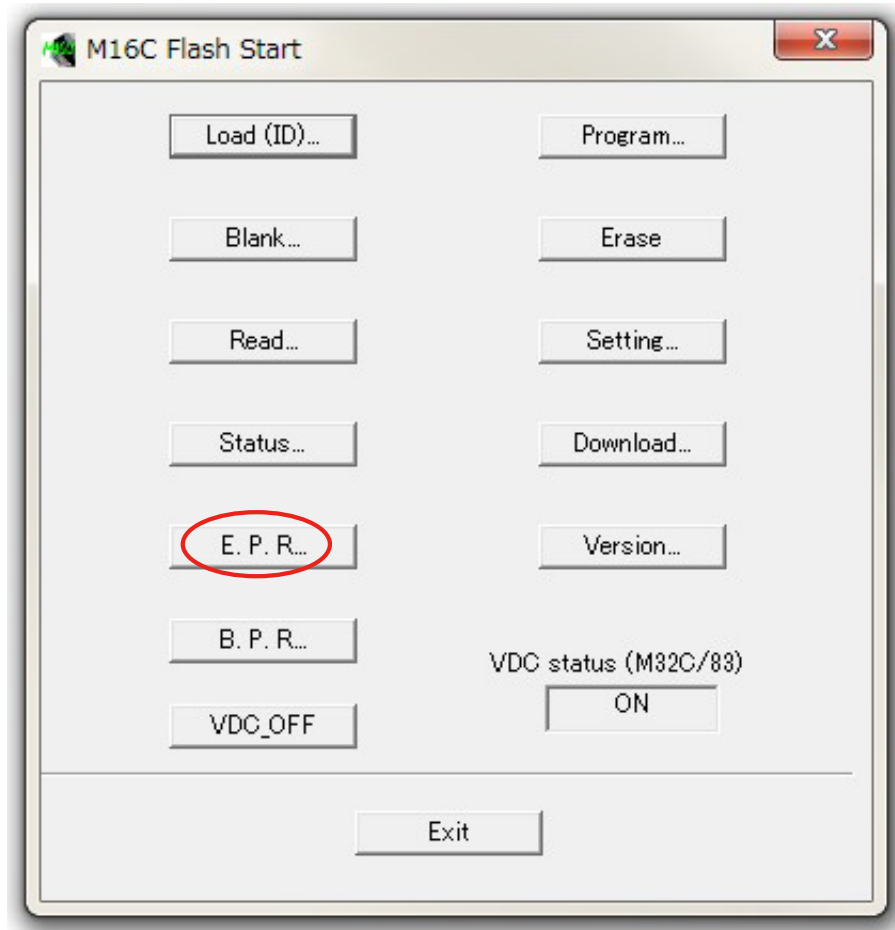


(9) Choose the 57600 in the Baud rate. (DO NOT choose the other one!!)
Click the OK.

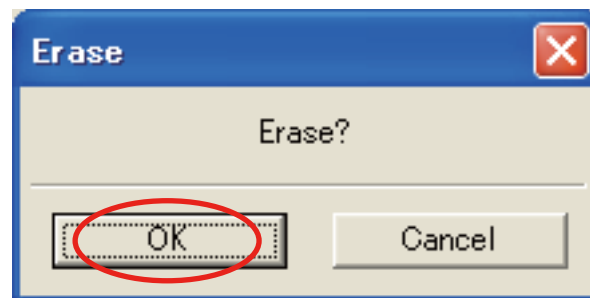


※ The setting is memorized if it does once.
It is necessary to set it to connected failure again when doing.

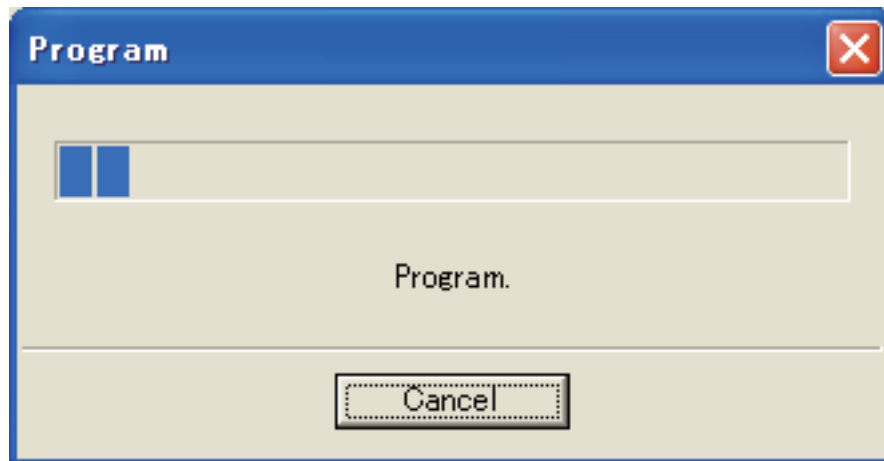
(10) Click the E.P.R....



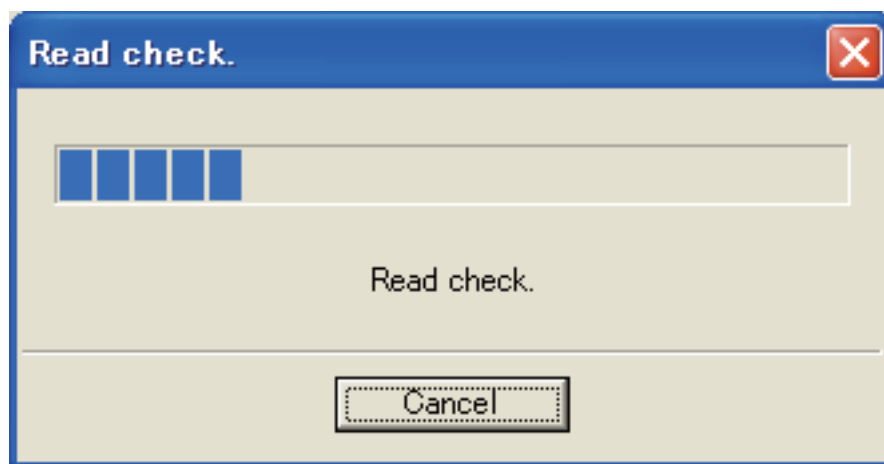
(11) Click the OK.



(12) Software is written into the Internal Flash-ROM.



The writing of software takes about 1 minute 30 seconds.



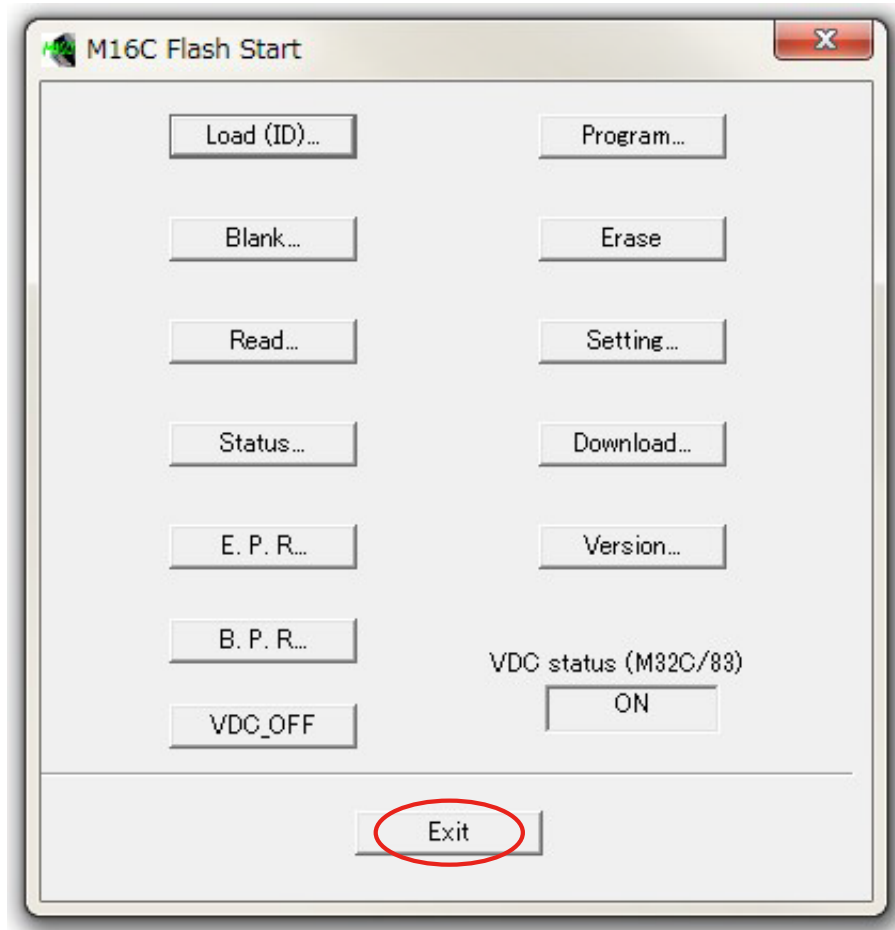
The checking of software takes about 50 seconds.

(13) Click the OK.



Please retry it from (8) when failing.

(14) Click the Exit.



(15) Remove the AC plug for power off this unit.

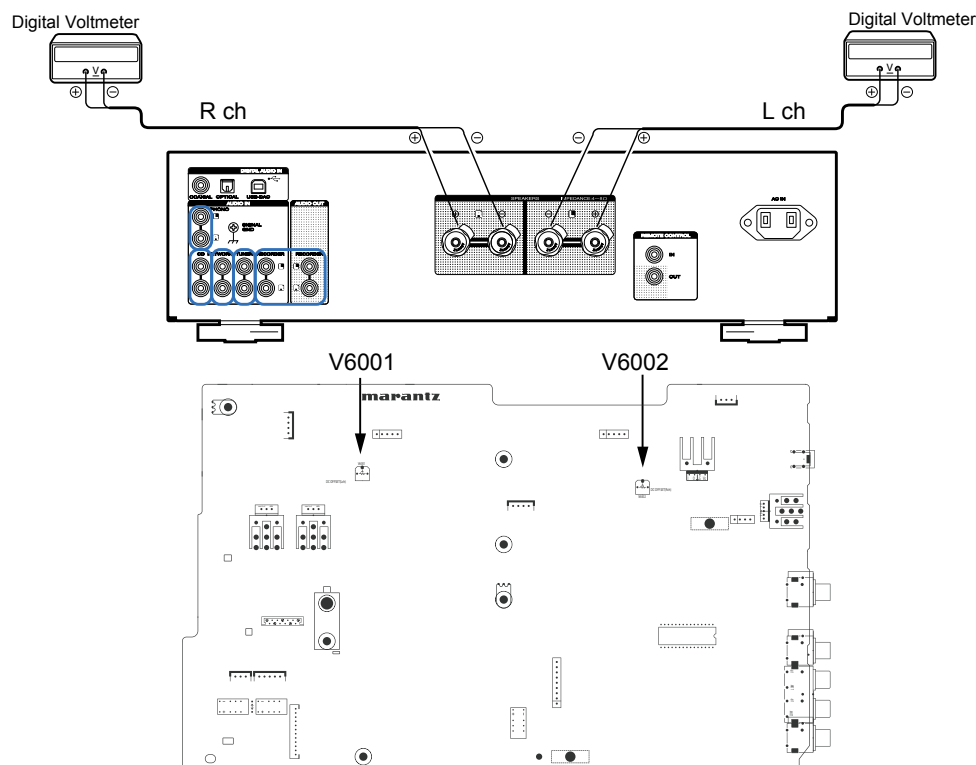
(16) Remove the SPK-581 form **this unit**.

ADJUSTMENT

Adjusting Procedure

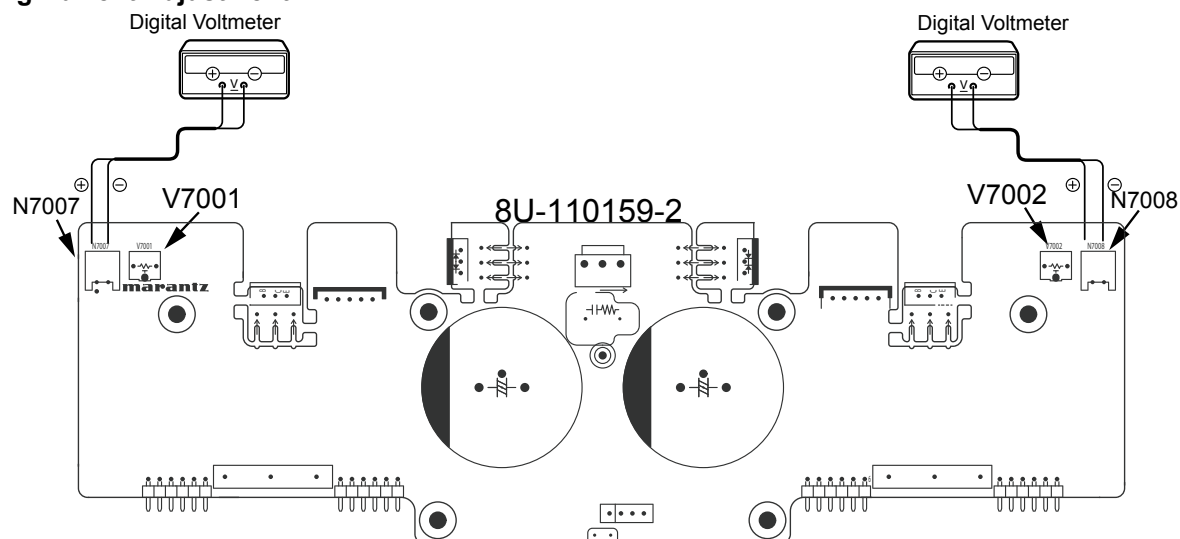
Set the power voltage to rated voltage for this adjustment.

DC Offset Voltage Adjustment



1. Before turning on the power,
Insert Digital Voltage Meter between the SPEAKER SYSTEMS (L CH) "+" and "-".
Insert Digital Voltage Meter between the SPEAKER SYSTEMS (R CH) "+" and "-".
2. Adjust the **VOLUME** to MIN.
3. Turn on the power. Then turn the **SPEAKERS SW** to on.
Adjustment is started immediately after a speaker relay turns on.
4. First **L CH** is adjusted.
The variable resistor **V6001** on **8U-110159-1** is turned with adjustment driver, and the Digital Voltage Meter is adjusted to "**0 mV ± 3 mV**".
5. Then, **R CH** is adjusted.
The variable resistor **V6002** on **8U-110159-1** is turned with adjustment driver, and the Digital Voltage Meter is adjusted to "**0 mV ± 3 mV**".
NOTE : DC offset voltage drops when turn the semi-fixed resistor (**V6001** and **V6002**) clockwise. DC offset voltage rises when turn the semi-fixed resistor un-clockwise. Please turn it slowly, because value of Digital Voltage Meter changes slowly.
6. Although after-adjustment DC offset voltage has some change, Please check that the range of DC offset voltage between **L ch (R ch) "+"** and **L ch (R ch) "-"** terminal of SPEAKERS SYSTEM A is "**0 mV ± 20 mV**".

Idling Current Adjustment



1. After DC Offset Voltage Adjustment is completed, adjust the Idling Current with the variable resistor **V7001** and **V7002** on the PCB **8U-110159-2**.
2. Turn off the power.
3. "+" of Connect Digital Voltage is connected to the No. 1 pin and connected "-" to No. 2 pin of **N7007**.
4. "+" of Connect Digital Voltage is connected to the No. 1 pin and connected "-" to No. 2 pin of **N7008**.
5. Before turning on the power, **V7001** and **V7002** have been counter clockwise turned with the adjustment driver.
6. Turn on the power, **VOLUME** is set as $-\infty$.
7. After 1 minutes, with seeing the digital voltage meter turn the variable resister clockwise slowly to adjust the idling current.
 - Idling adjustment with **V7001 (V7002)**.
 - Turn **V7001 (V7002)** clockwise to increase the idling current.
 - The adjustment value of idling current is "**6mV (30mA) $\pm$ 0.5 mV(2.5 mA)**" each.
8. After 5 minutes, repeat the same procedure as **7**.
 - Turn **V7001 (V7002)** clockwise to increase the idling current.
 - The adjustment value of idling current is "**18mV (90mA) $\pm$ 0.5 mV(2.5 mA)**" each.

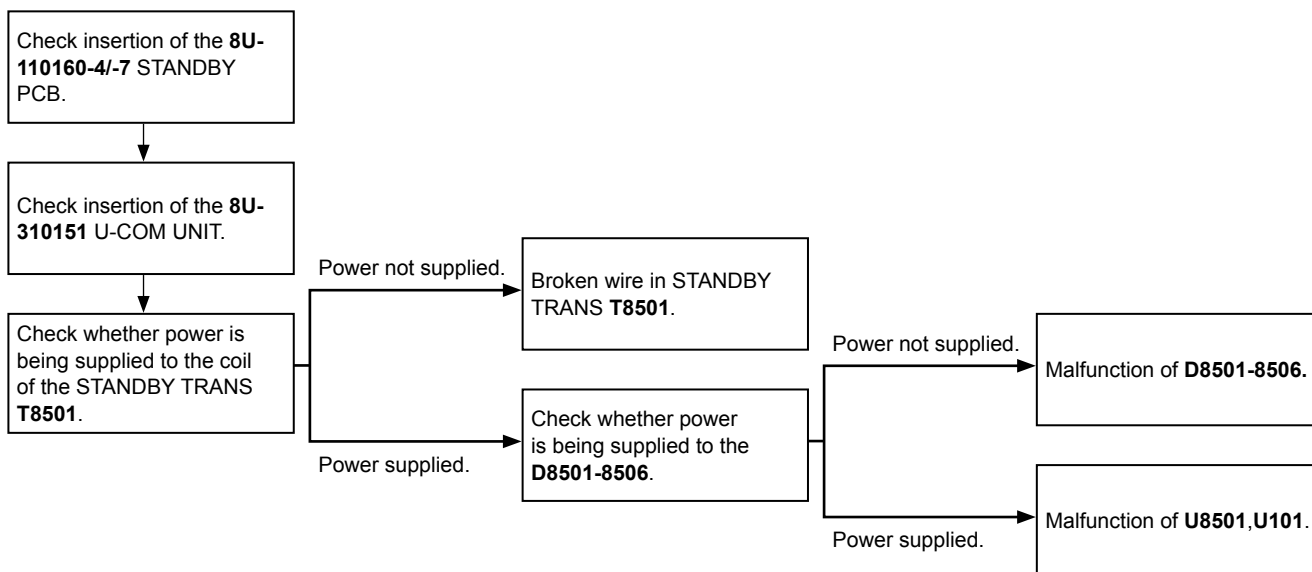
Adjustment is completed.
9. Remove connection cable, attach the top cover.

NOTE : Idling current decreases with the temperature rise inside the unit, and it is set to "**14mV (70mA)**" of setting value in about 30 minutes after turn on the power.

TROUBLE SHOOTING

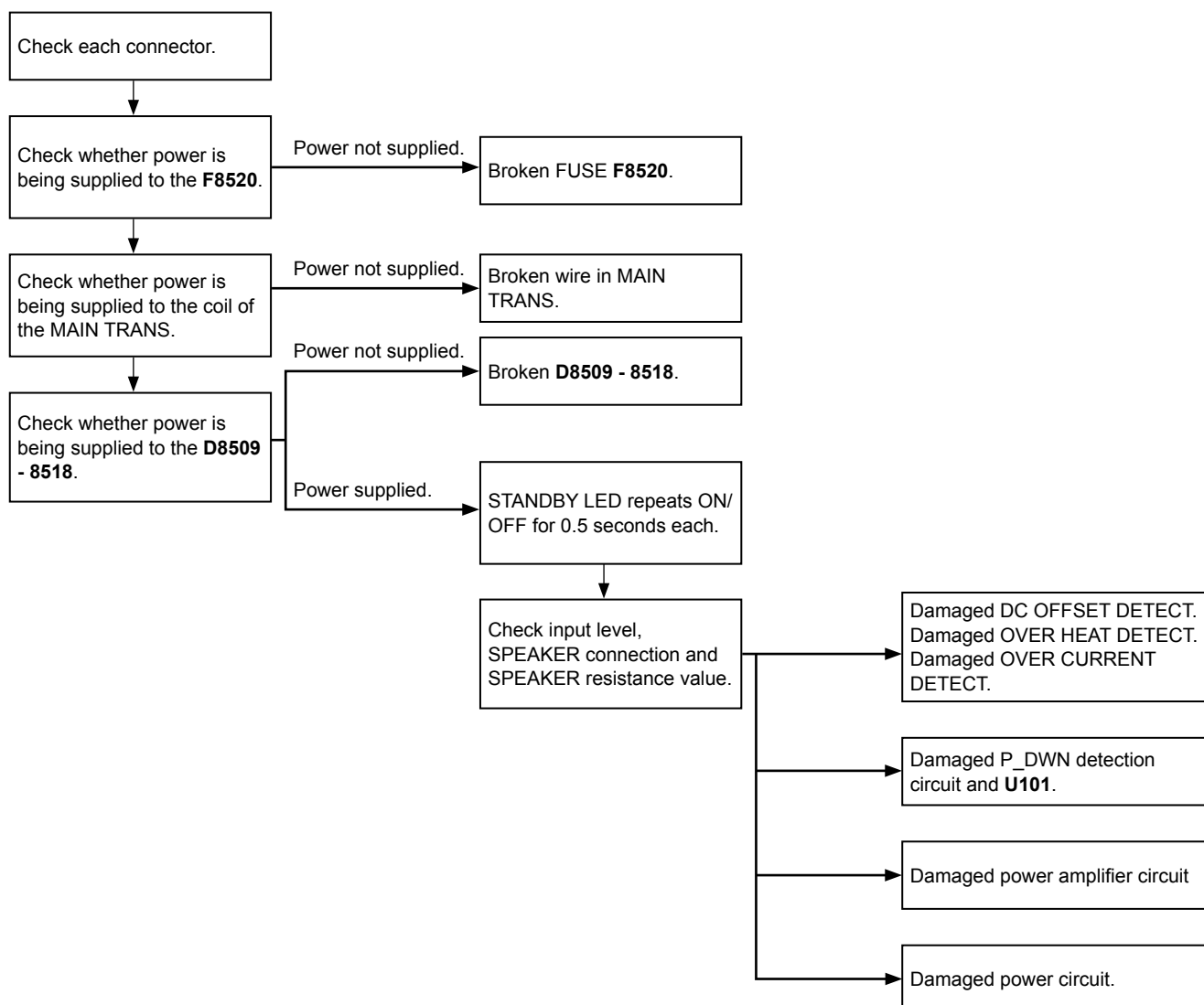
1. The power can not be turned on.

(STANDBY LED does not light (STANDBY MODE))

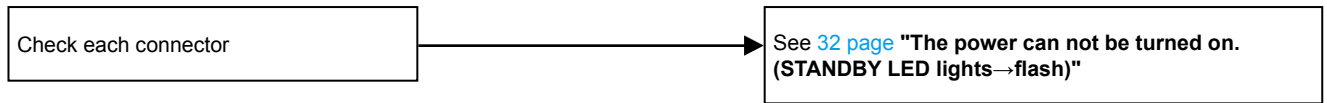


2. The power can not be turned on.

(STANDBY LED lights → flash)

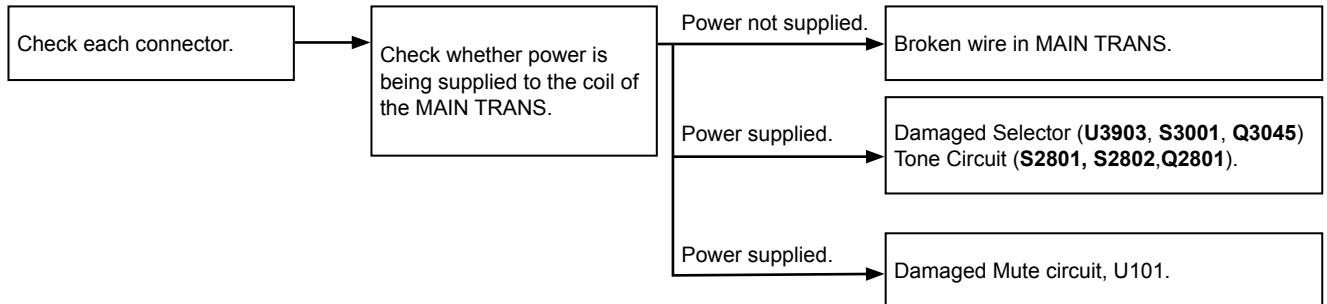


3. STANDBY LED FLASHES WHILE USING UNIT (PROTECTION CIRCUIT IS SET)

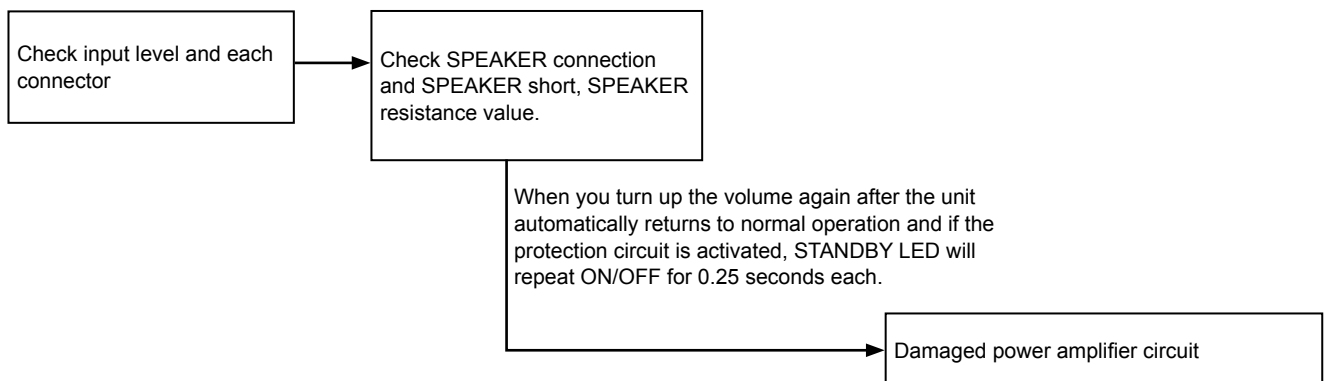


4. The power turned on, but a sound does not output normally. (Both channels)

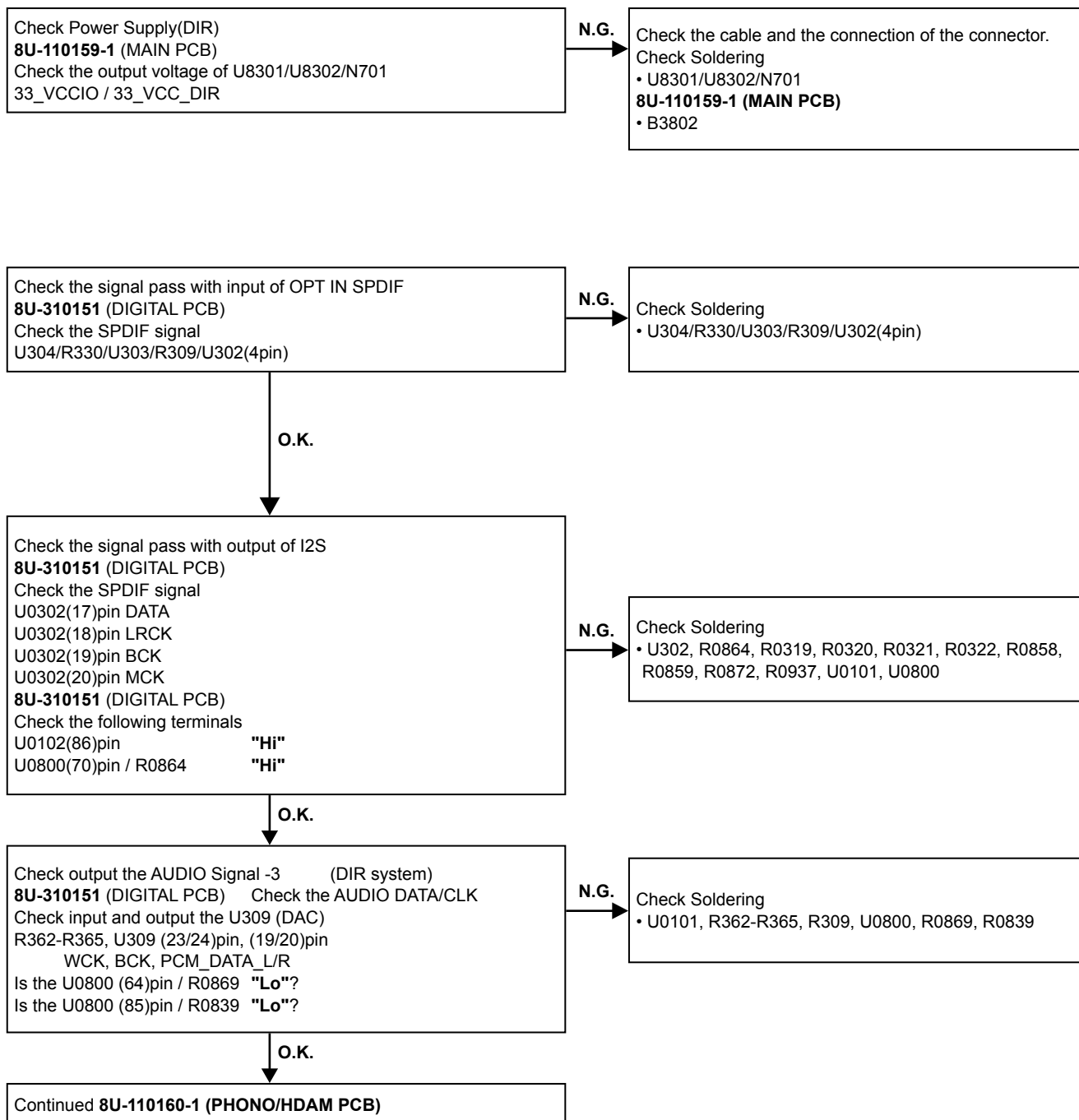
4.1 STANDBY LED does not flash (protection mode is not set)

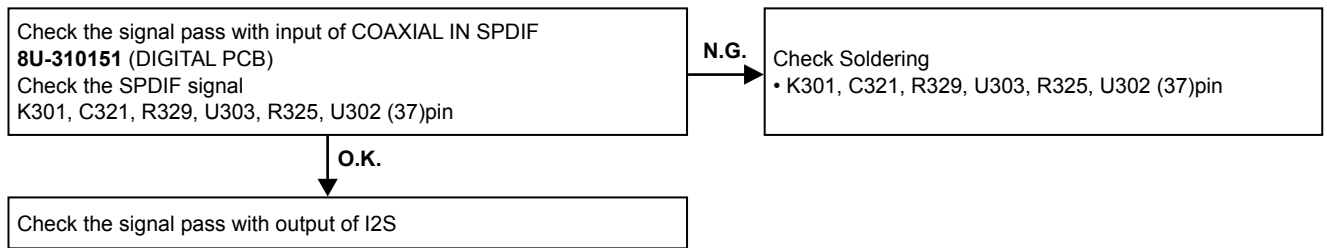


4.2 When the volume is turned up, Mute LED flashes. (protection mode is set) Repeats ON/OFF for 0.5 second each, and automatically returns to normal operation.

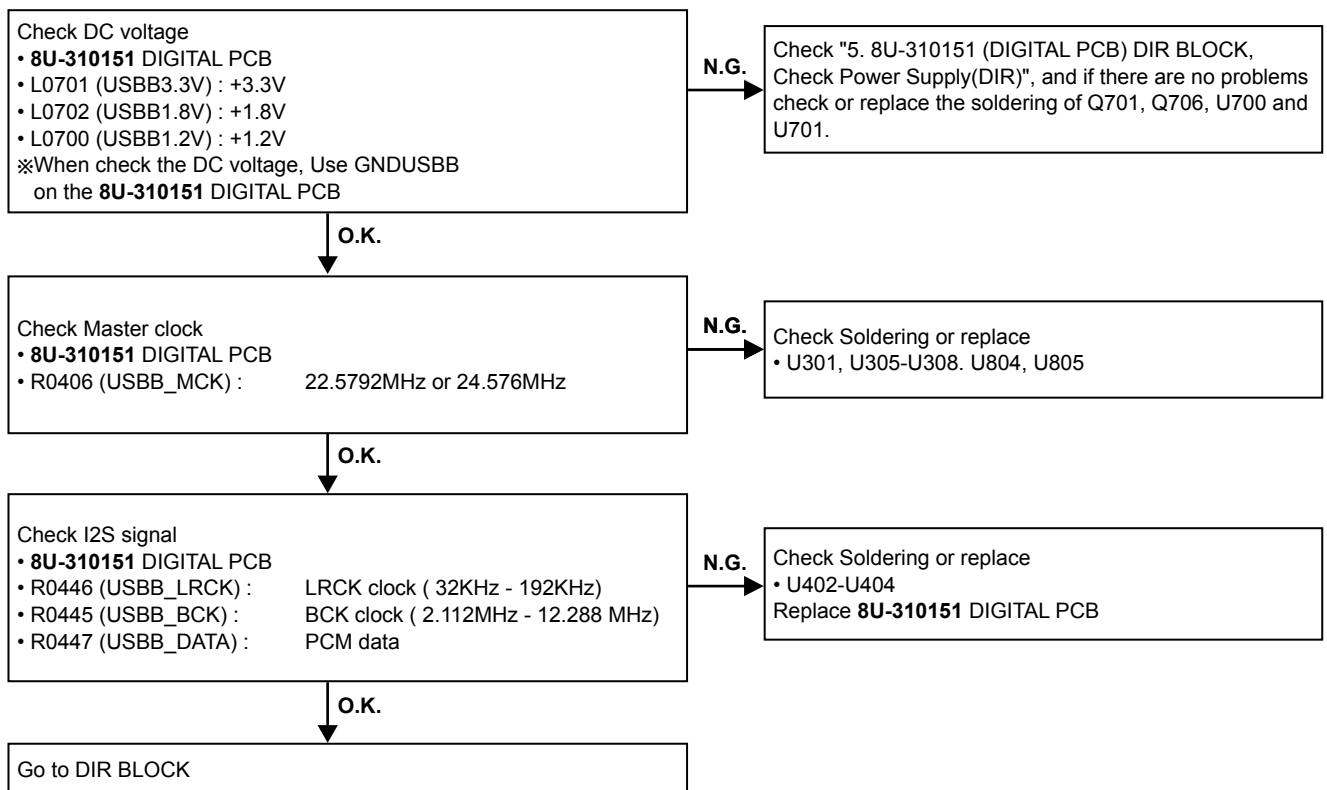


5. 8U-310151 (DIGITAL PCB) DIR BLOCK





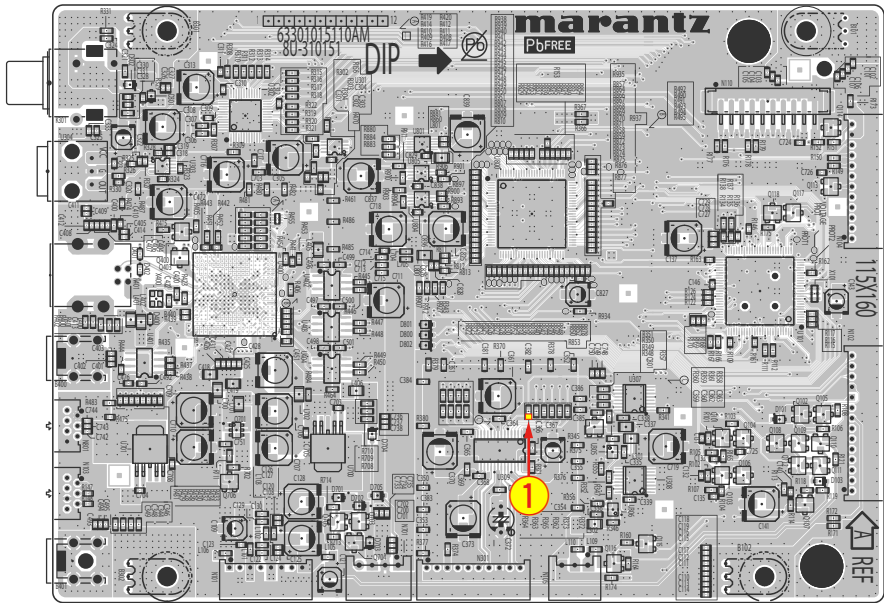
6. 8U-310151 (DIGITAL PCB) USB-B BLOCK



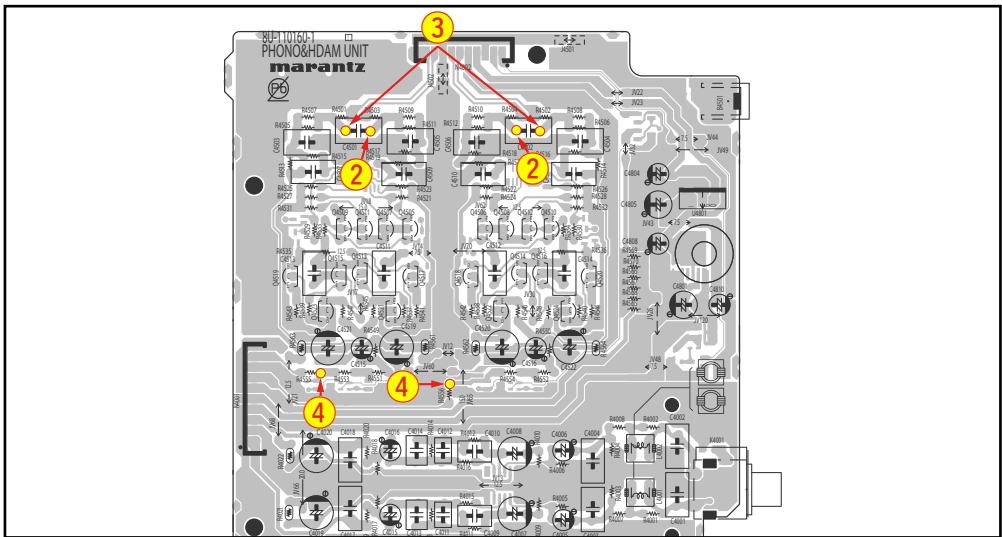
MEASURING METHOD AND WAVEFORMS

8U-310151 (DIGITAL PCB)

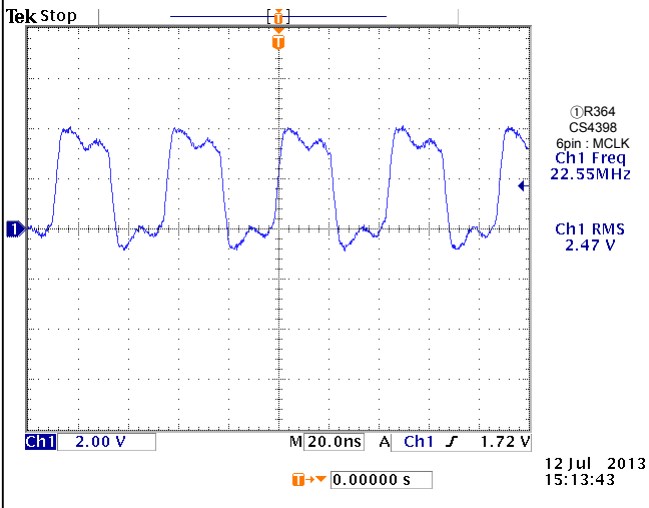
①	R364
②	C4501 or C4502
③	R4555 or R4556



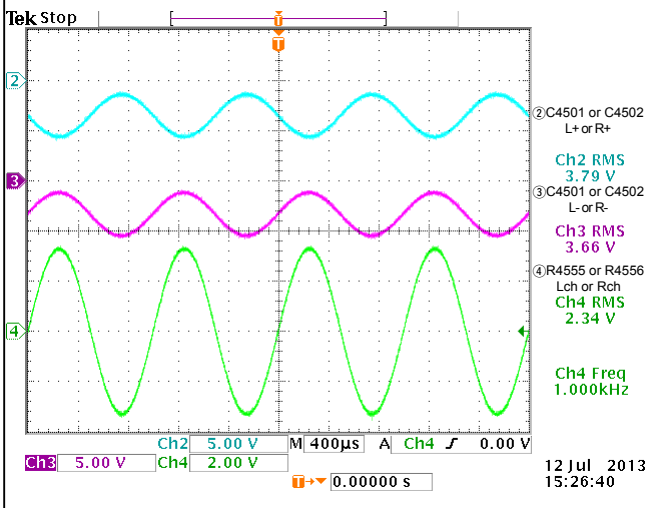
8U-110160-1 (PHONO/HDAM PCB)



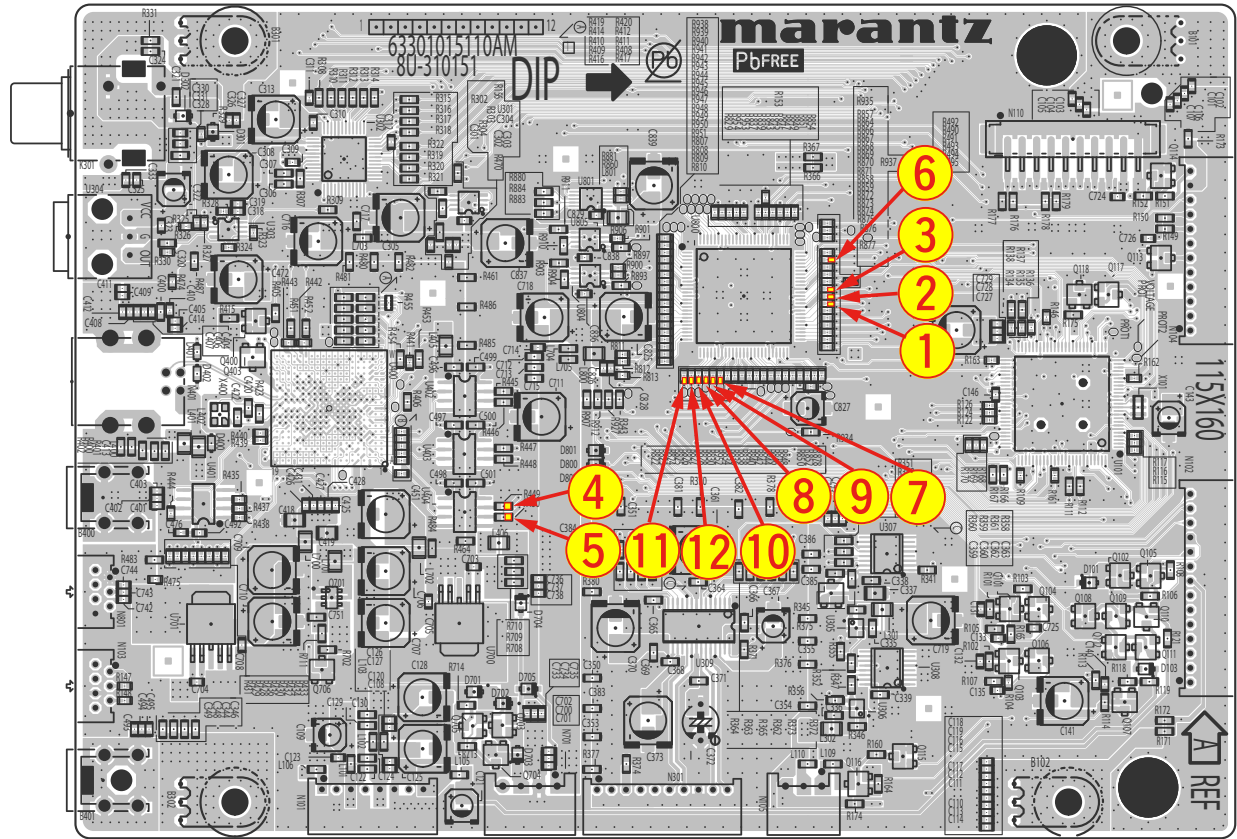
(1) Master Clock (ex : PCM 44.1kHz playback)



(2) Analog Output (ex : PCM 44.1kHz playback)

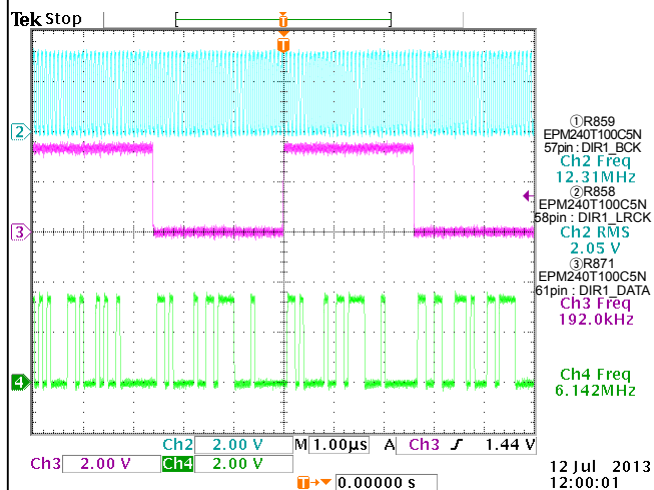


8U-310151 (DIGITAL PCB) (A side)

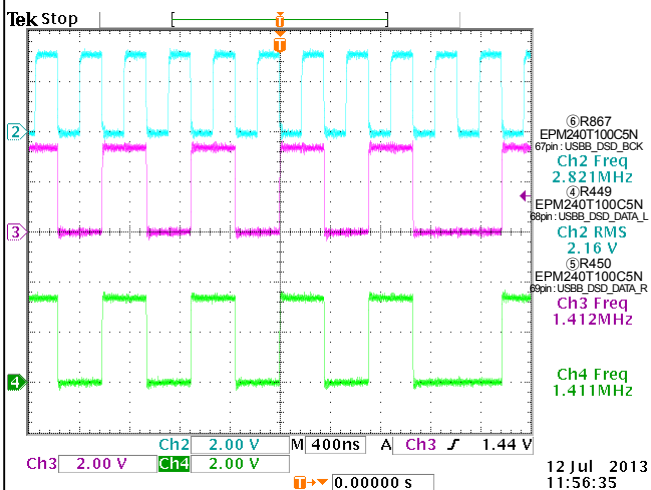


①	R859	⑥	R867	⑪	R822
②	R858	⑦	R827	⑫	R823
③	R871	⑧	R825		
④	R449	⑨	R826		
⑤	R450	⑩	R824		

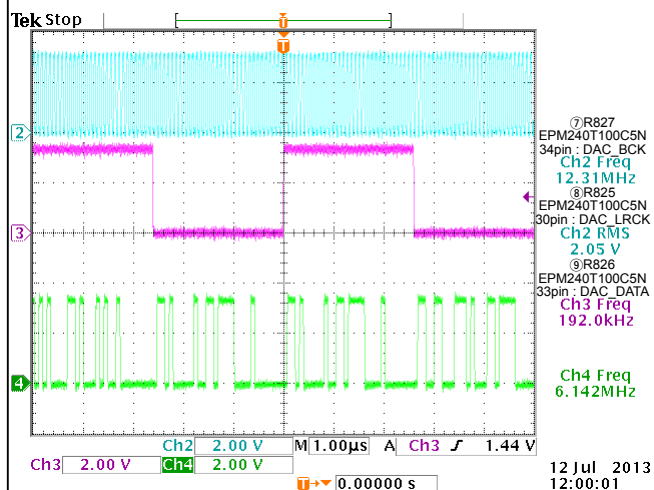
(1)PLD Input signal (Digital Input PCM)



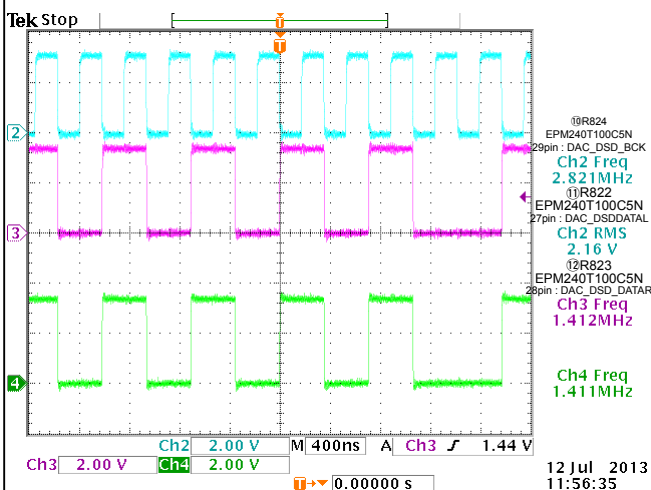
(2)PLD Input signal (Digital Input DSD)



(3)PLD Output signal (Digital Output PCM)

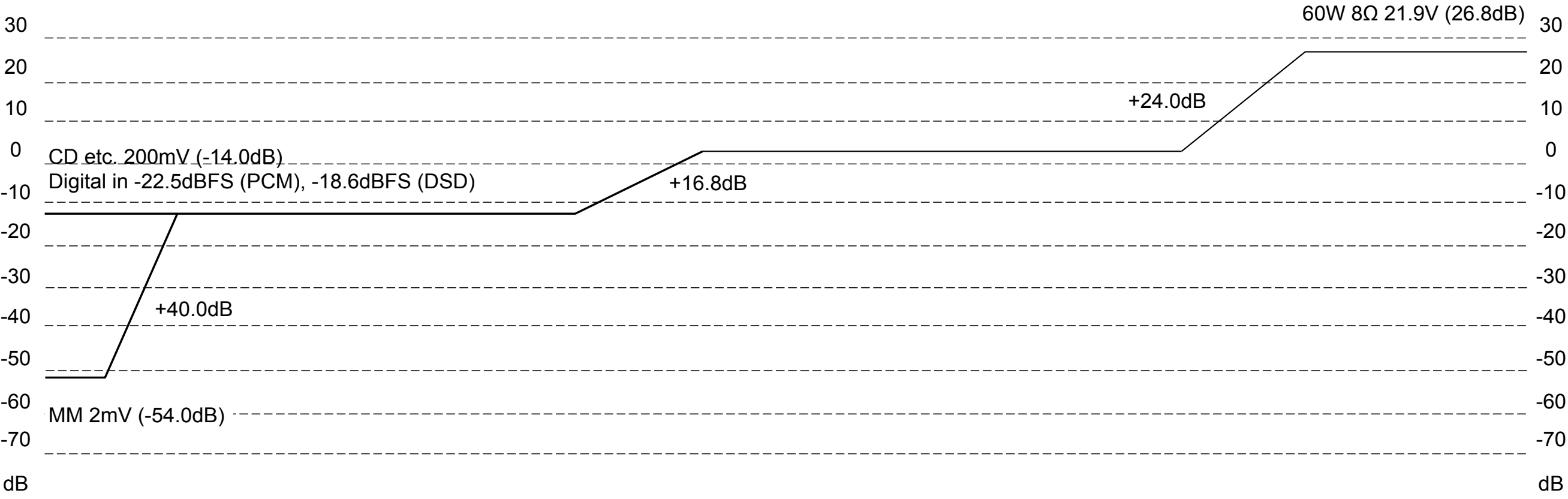


(4)PLD Output signal (Digital Output DSD)

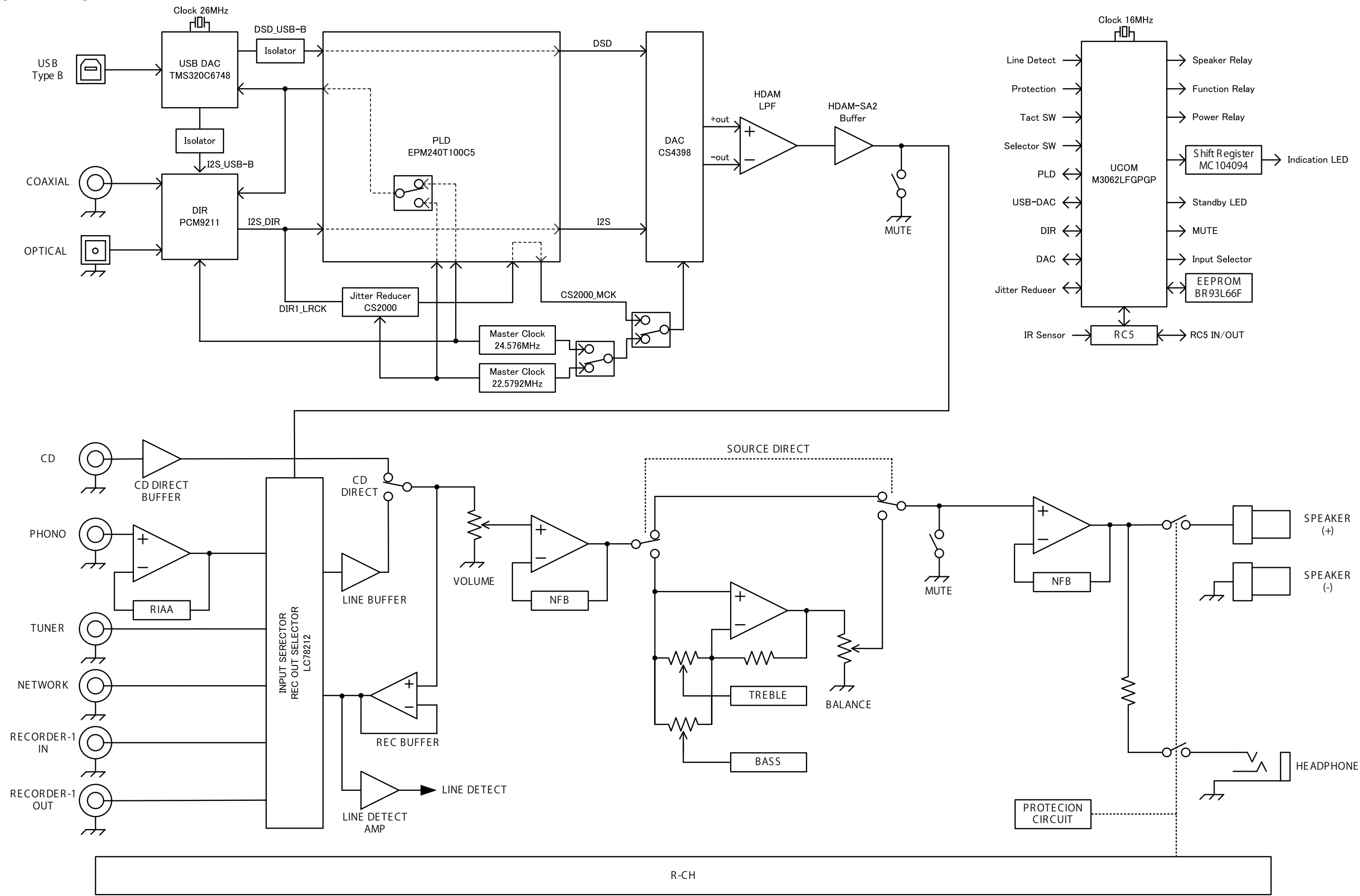


This image shows a full page of blank, lined paper. It features approximately 28 horizontal blue or grey lines spaced evenly apart, typical of notebook paper. The lines extend across the entire width of the page, leaving small margins at the top and bottom. There are no vertical lines, text, or other markings on the page.

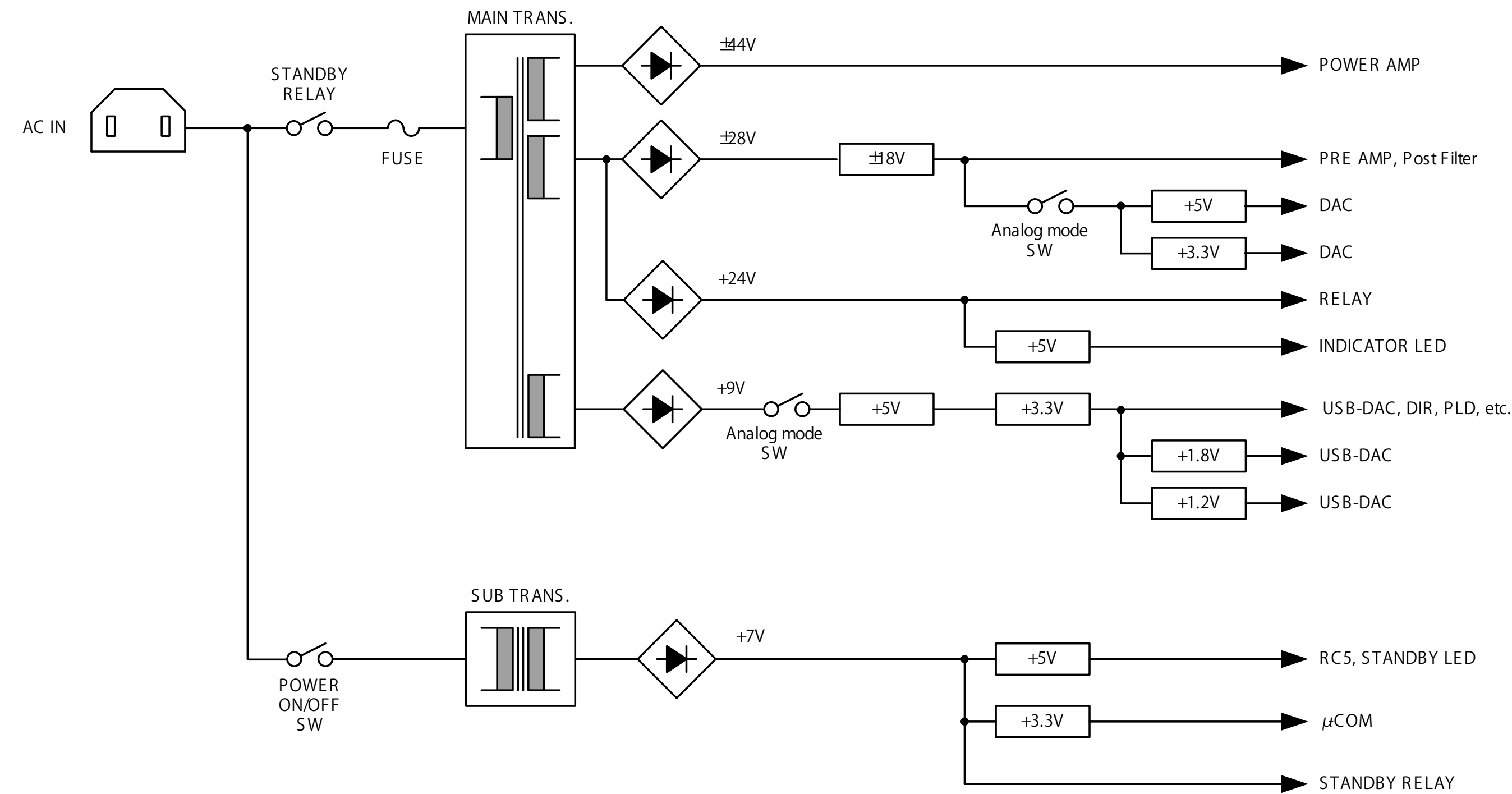
LEVEL DIAGRAM



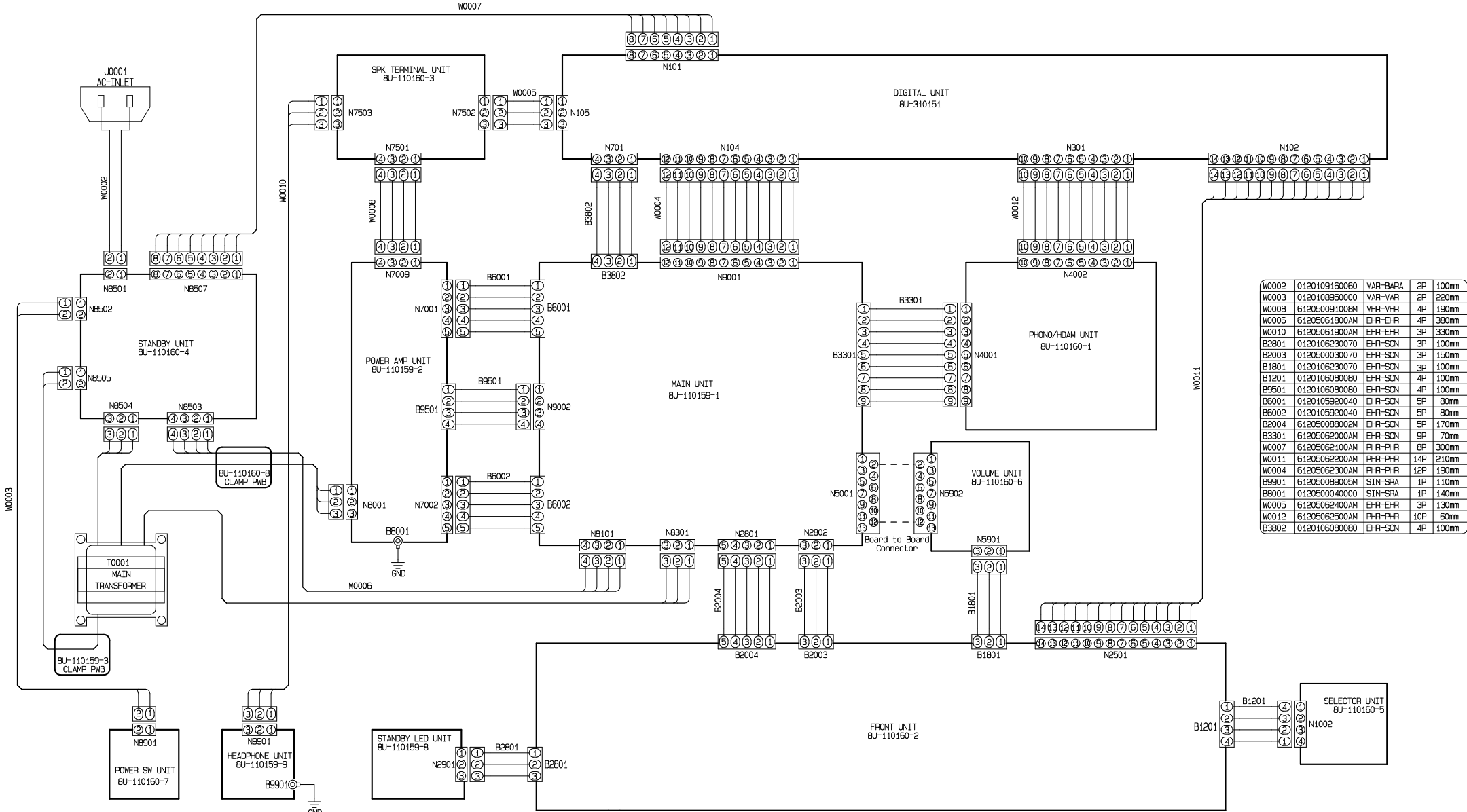
BLOCK DIAGRAM

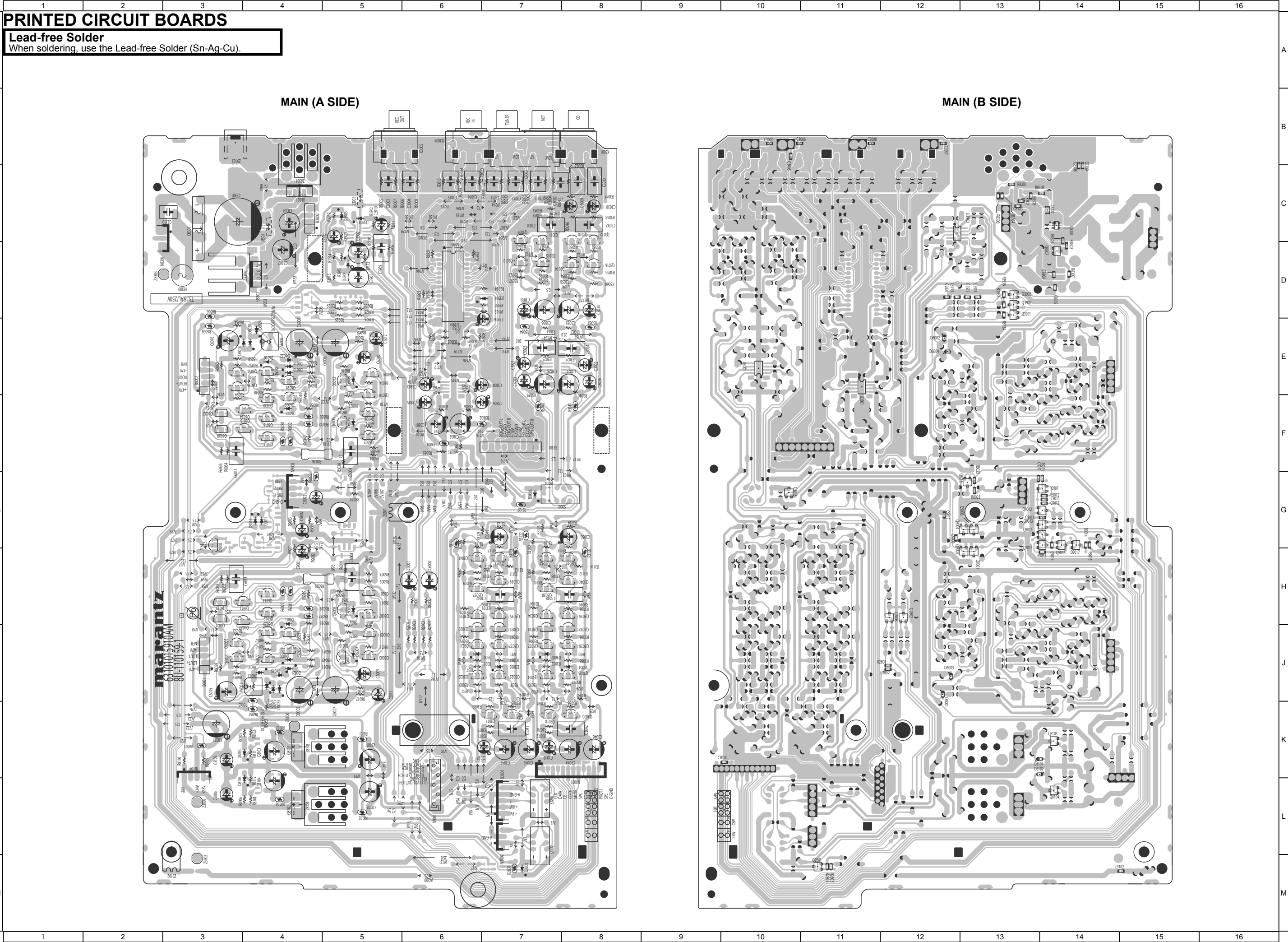


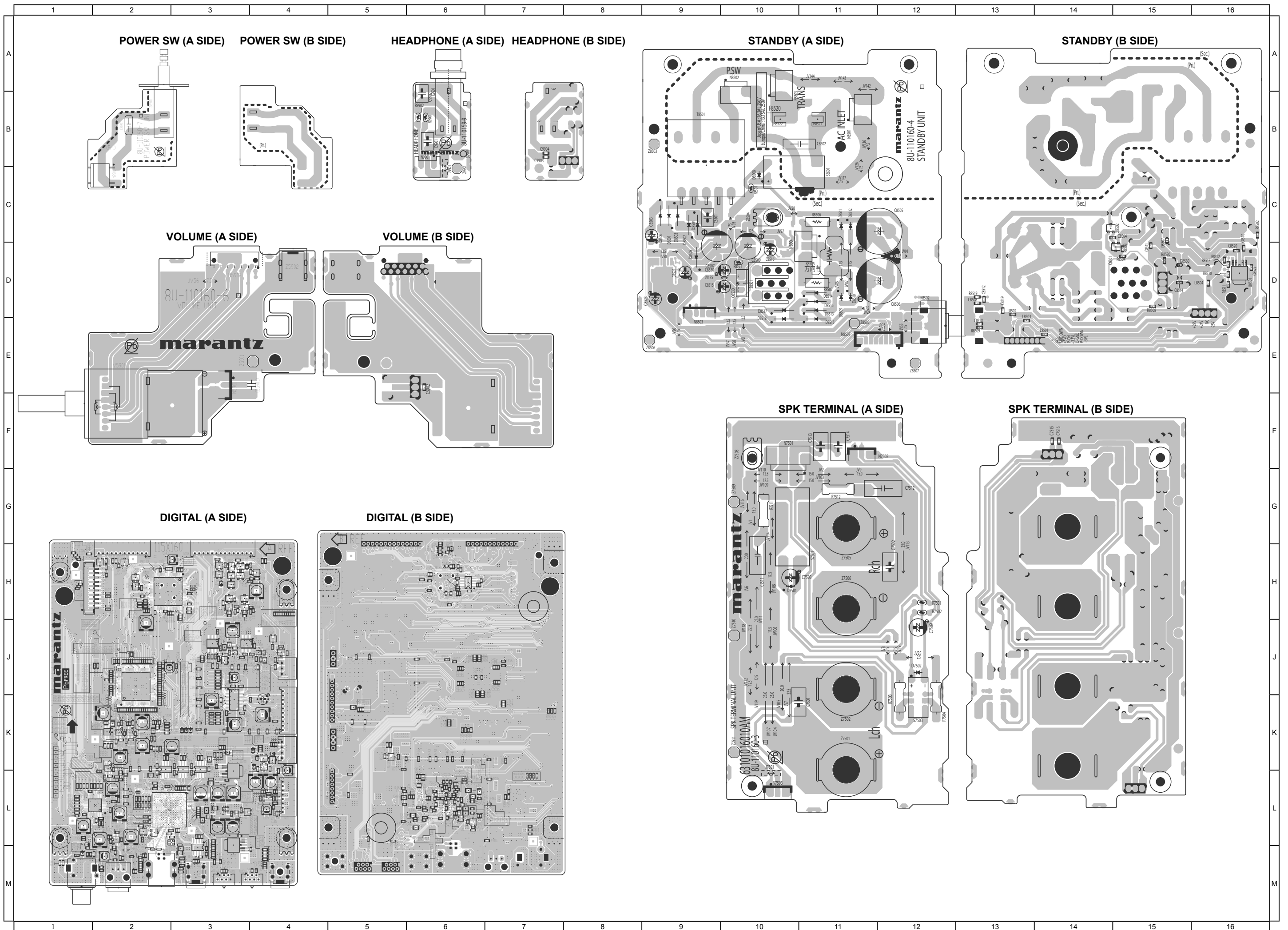
POWER DIAGRAM

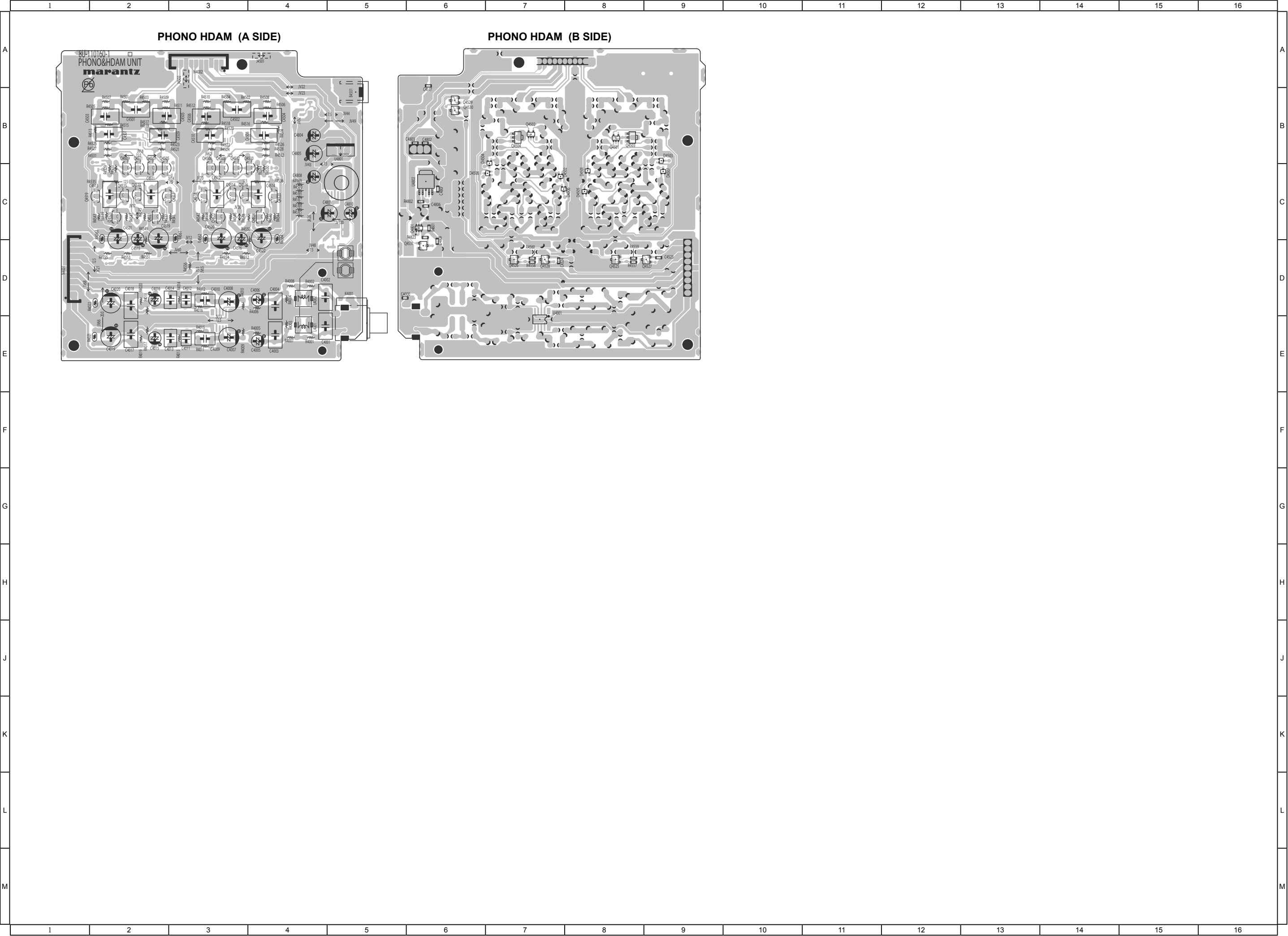


WIRING DIAGRAM

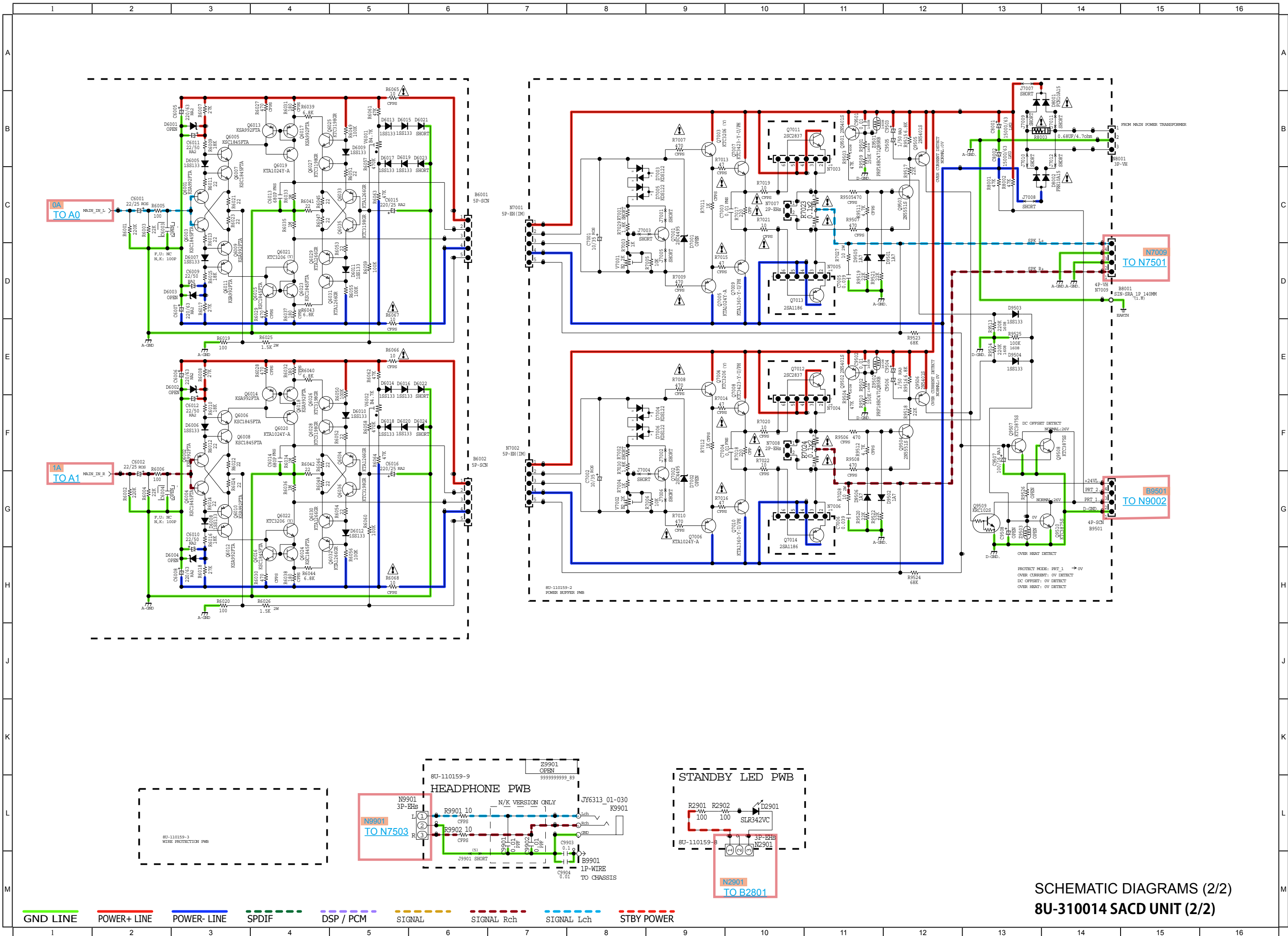




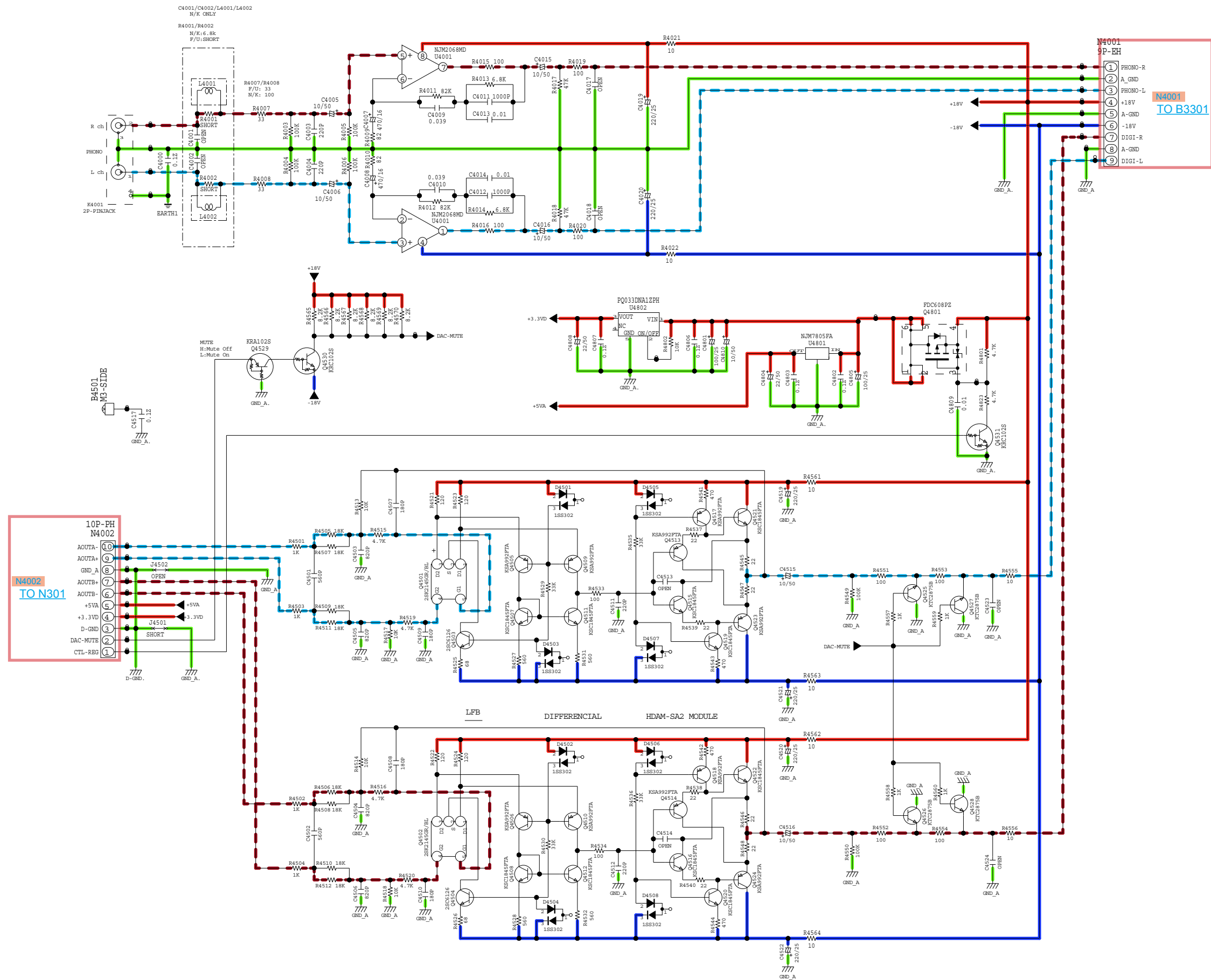


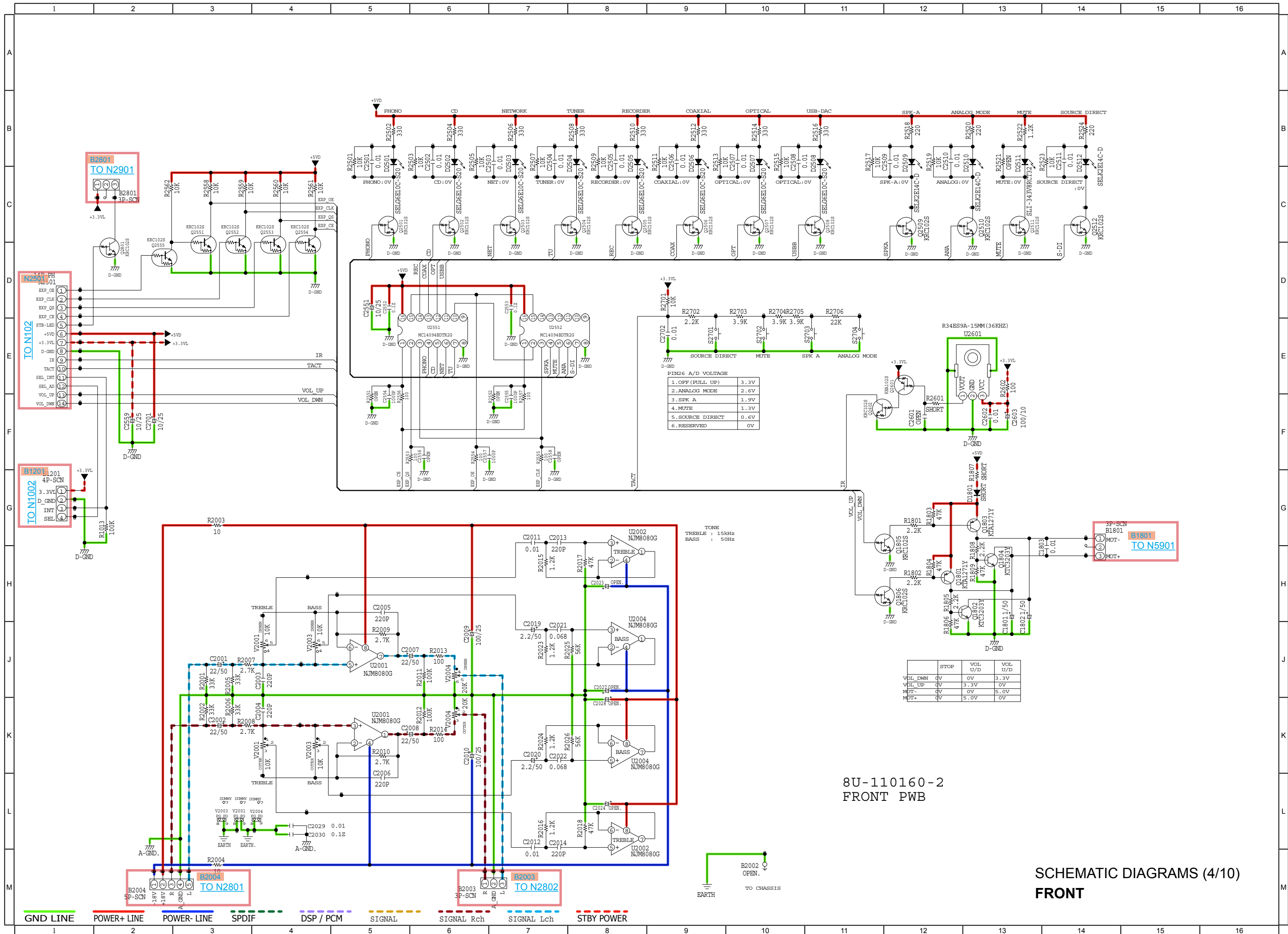






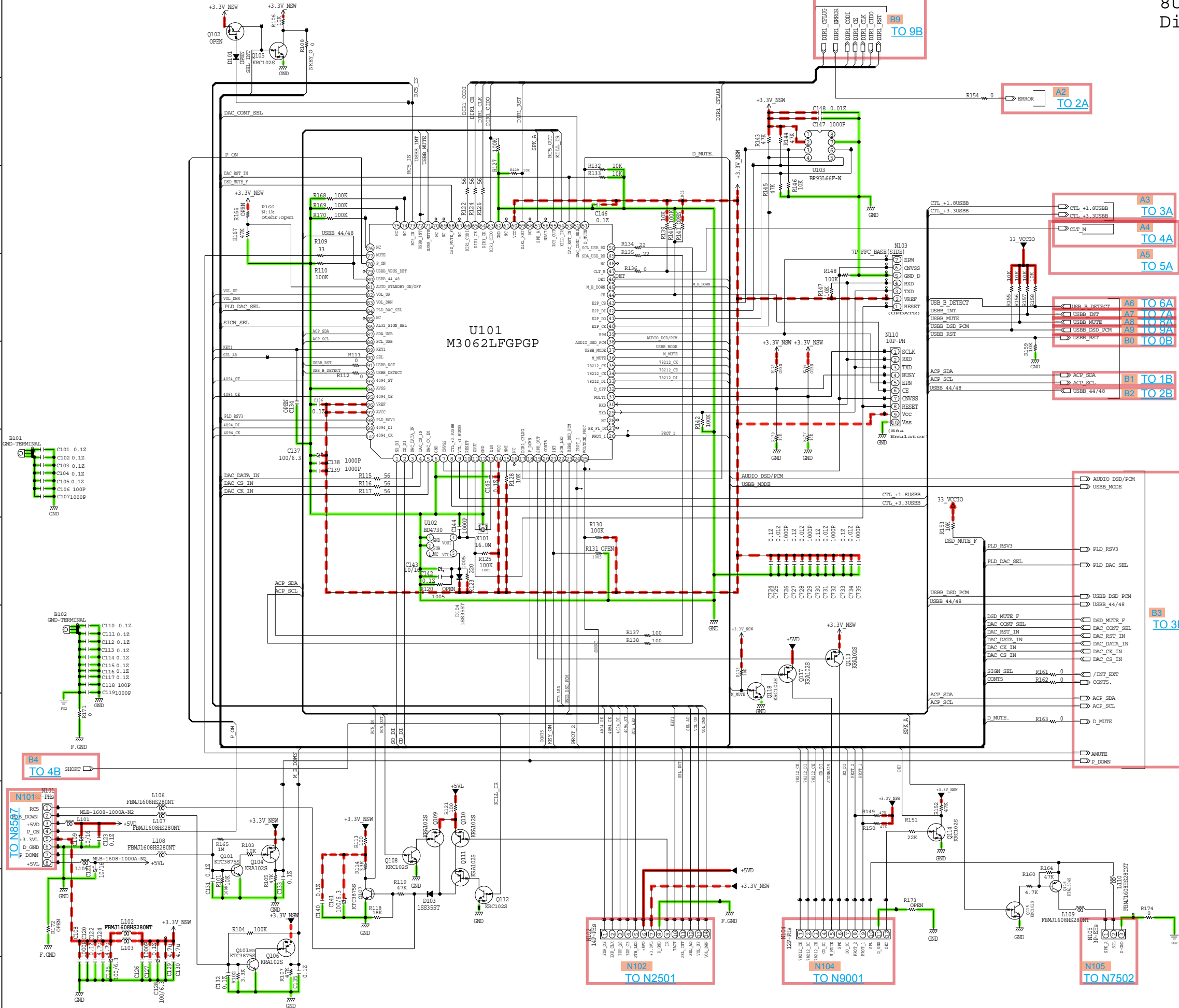
8U-110160-1
PHONO&HDAM UNIT





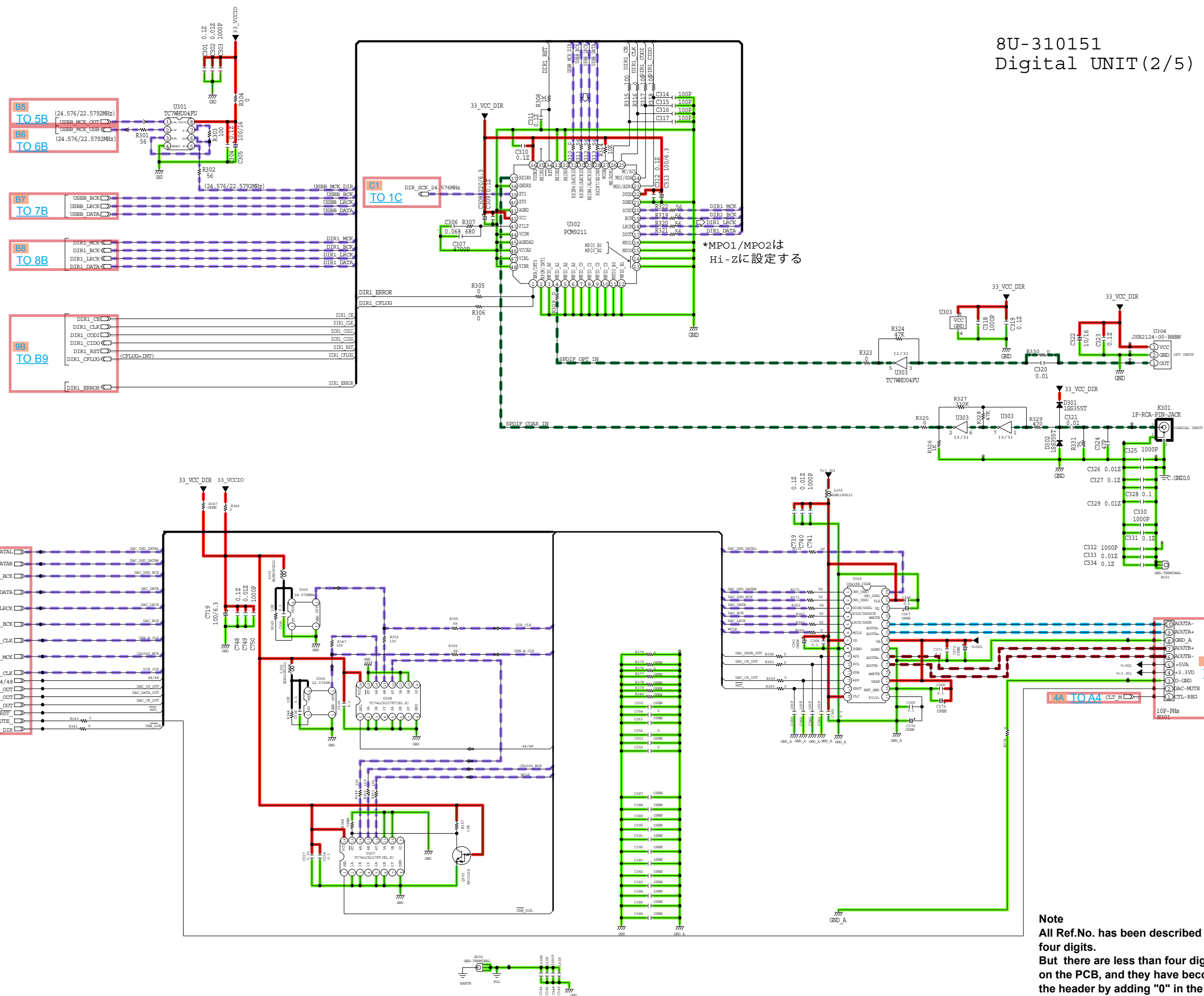


8U-310151
Digital UNIT(1/5)



Note
All Ref.No. has been described in the parts list are four digits.
But there are less than four digits of printed Ref.No. on the PCB, and they have become four digits after the header by adding "0" in the parts list.

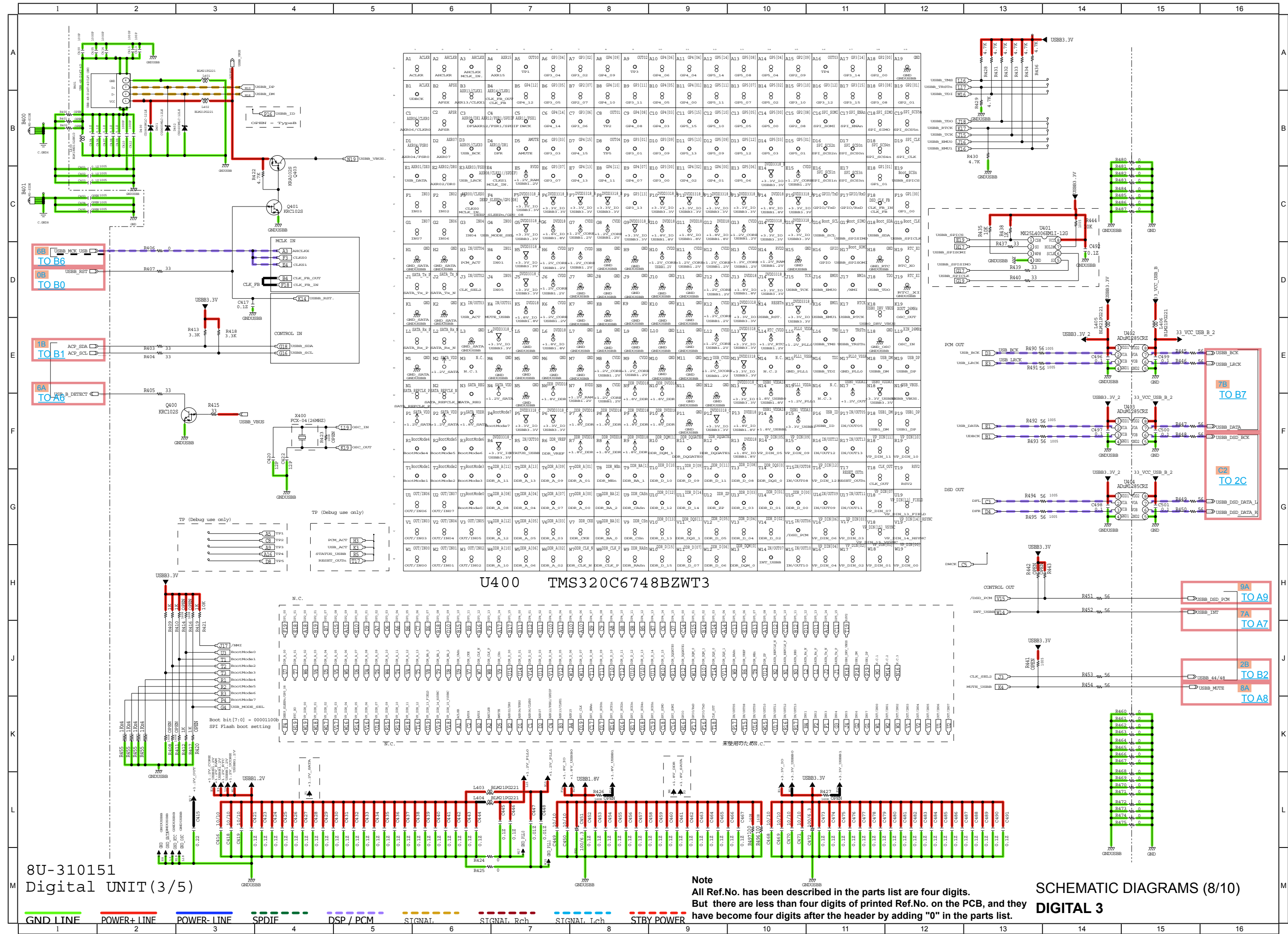
SCHEMATIC DIAGRAMS (6/10)
DIGITAL 1

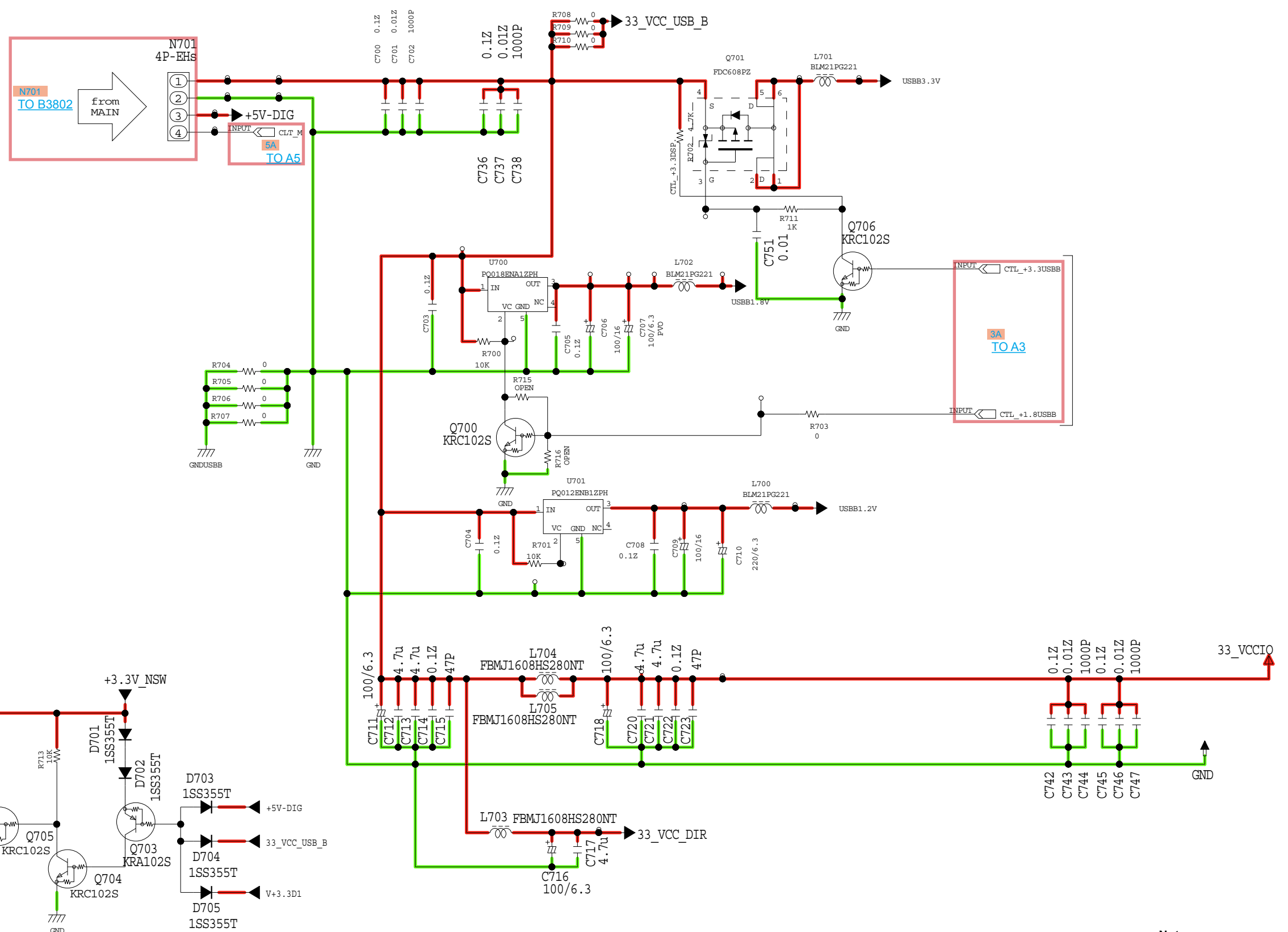


SCHEMATIC DIAGRAMS (7/10)

DIGITAL 2

54





8U-310151

Digital UNIT (4/5)

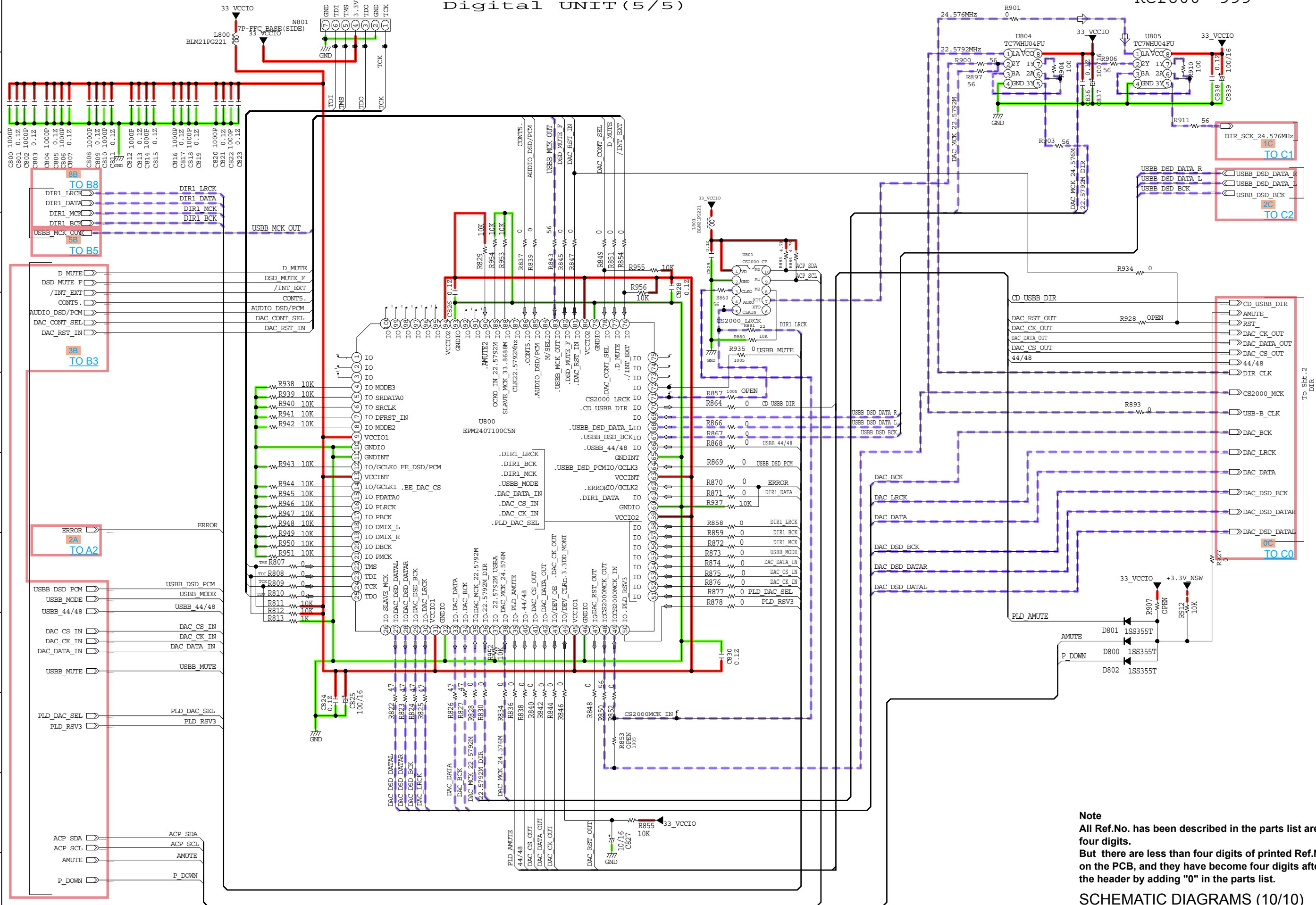
Note
All Ref.No. has been described in the parts list are four digits.
But there are less than four digits of printed Ref.No. on the PCB, and they have become four digits after the header by adding "0" in the parts list.

SCHEMATIC DIAGRAMS (9/10)

DIGITAL 4

8U-310151 Digital UNIT (5/5)

Ref800~999



Note
All Ref.No. has been described in the parts list are four digits.
But there are less than four digits of printed Ref.No. on the PCB, and they have become four digits after the header by adding "0" in the parts list.

SCHEMATIC DIAGRAMS (10/10)

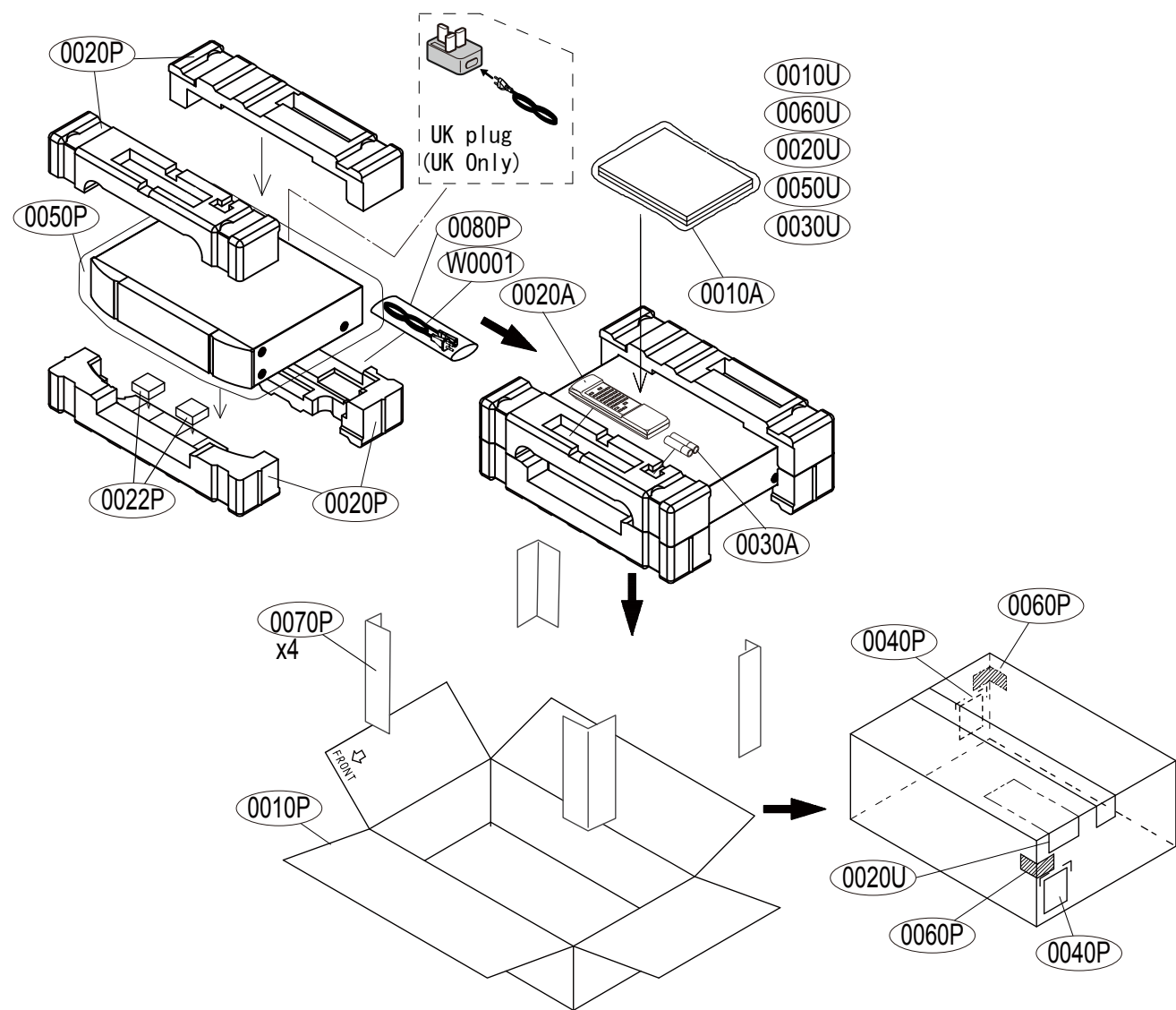
DIGITAL 5

Please see the last chapter for the part list.



PACKING VIEW

Please see the last chapter for the part list.

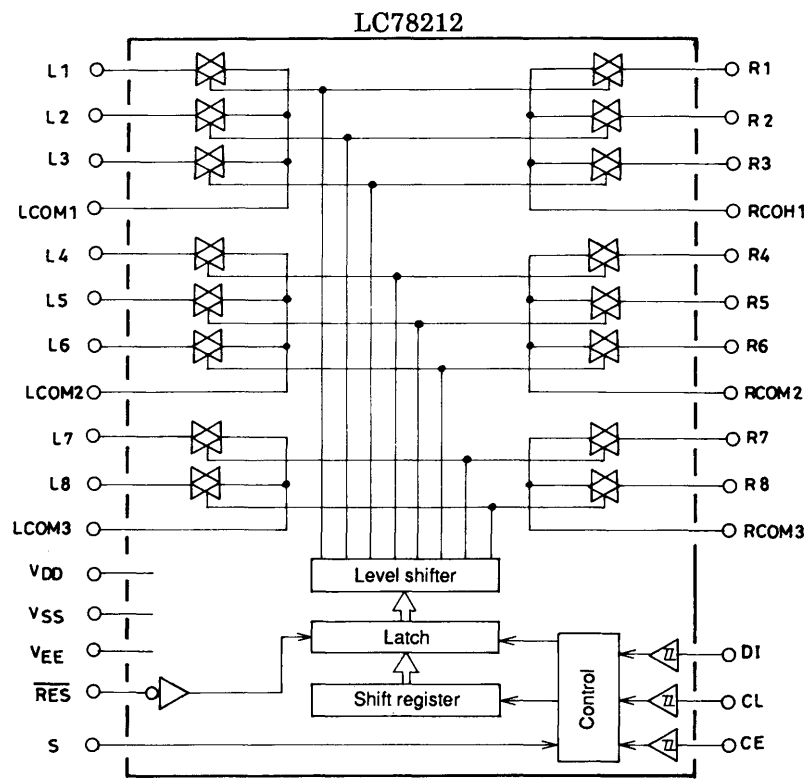


SEMICONDUCTORS

Only major semiconductors are shown, general semiconductors etc. are omitted to list.
The semiconductor which described a detailed drawing in a schematic diagram are omitted to list.

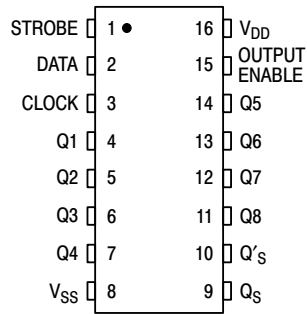
1. IC's

LC78212 (MAIN : U3903)



MC14094 (FRONT : U2551, U2552)

PIN ASSIGNMENT



TRUTH TABLE

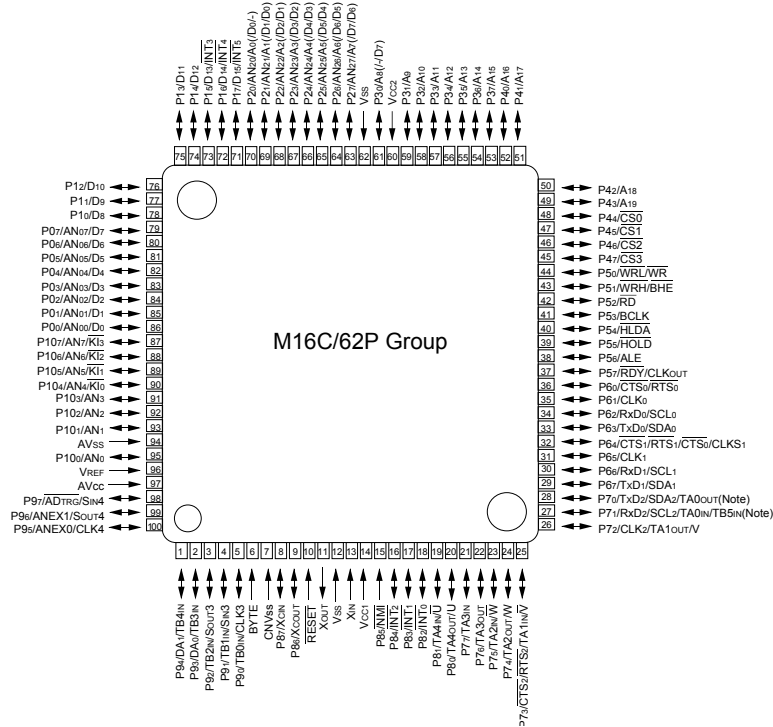
Clock	Output Enable	Strobe	Data	Parallel Outputs		Serial Outputs	
				Q1	Q _N	Q _S *	Q' _S
	0	X	X	Z	Z	Q7	No Chg.
	0	X	X	Z	Z	No Chg.	Q7
	1	0	X	No Chg.	No Chg.	Q7	No Chg.
	1	1	0	0	Q _N -1	Q7	No Chg.
	1	1	1	1	Q _N -1	Q7	No Chg.
	1	1	1	No Chg.	No Chg.	No Chg.	Q7

Z = High Impedance X = Don't Care
* At the positive clock edge, information in the 7th shift register stage is transferred to Q8 and Q_S.

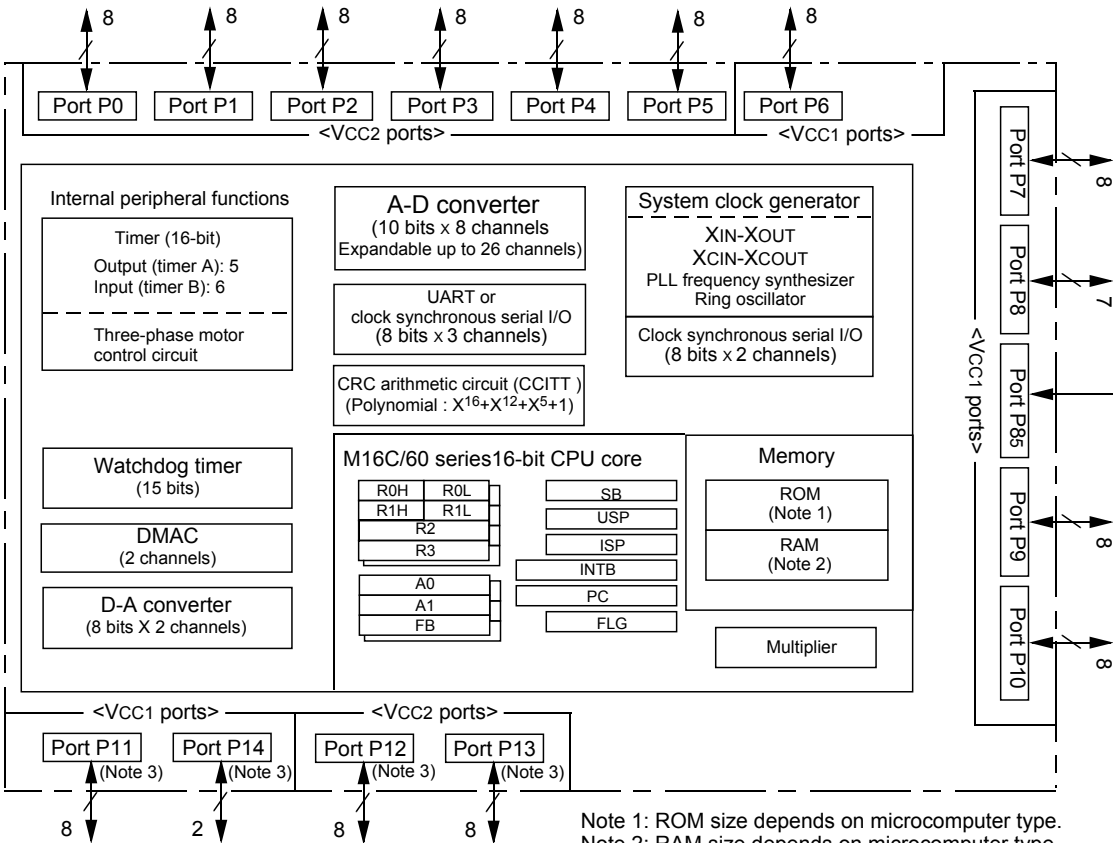
Terminal Function

Pin	Port	I/O	use	Name	Port Setting			Note
					Act.	stby	Exit R	
1	STROBE	I	I	CE				Chip Enable
2	DATA	I	I	DATA				From 4094-1
3	CLOCK	I	I	CLK				Serial Clock
4	Q1	O	O	TONE	H	L	PD 10k	Tone Control SW (H/L = Tone/Source Direct)
5	Q2	O	O	P-DIRECT	H	L	PD 10k	Power Amp direct in Relay ON (ON:H)
6	Q3	O	O	CD	H	L	PD 10k	CD Input Relay ON (ON:H)
7	Q4	O	O	LINE	H	L	PD 10k	LINE Input Relay ON (ON:H)
8	VSS	-	-	GND	-	-	-	GND
9	QS	O	O	QS				Open
10	Q'S	O	O	Q'S				Open
11	Q8	O	O	PHONO	H	L	PD 10k	PHONO Input Relay ON (ON:H)
12	Q7	O	O	-	-	-	-	-
13	Q6	O	O	BI	H	L	PD 10k	Bi amp SW (H/L = Bi amp/Normal)
14	Q5	O	O	MM	H	L	PD 10k	PHONO MM/MC SW (H/L = MM/MC)
15	OE	I	I	OE				Output Enable
16	VDD	-	-	VCC	-	-	-	3.3V

M3062LFGPGP (DIGITAL: U101)



Block Diagram

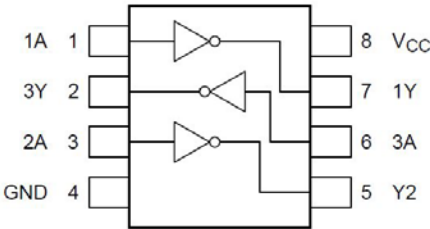


M3062LFGPGP Terminal Function

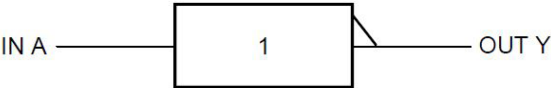
Pin No.	Pin Name	Signal Name	I/O	Initial	Note
No.	P9_4/DA1/TB4IN	SO_DI	O	H	Relay operation port on source direct mode
2	P9_3/DA0/TB3IN	CD_DI	O	L	Relay operation port on CD function
3	P9_2/TB2IN/SOUT3	DAC_DATA_IN	O	L	for DAC (to PLD) to CS4398 Data
4	P9_1/TB1IN/SIN3	DAC_CS_IN	O	H	for DAC (to PLD) to CS4398 CS
5	P9_0/TB0IN/CLK3	DAC_CK_IN	O	L	for DAC (to PLD) to CS4398 CLK
6	BYTE	GND	-	-	GND
7	CNVSS	CNVSS	I	-	Update
8	P8_7/XCIN	CTL_+3.3USBB	O	L	3.3V USB-B control
9	P8_6/XCOUT	CTL_+1.8USBB	O	H	1.8V USB-B control
10	*RESET	RESET	I	-	Reset in
11	XOUT	XOUT	O	-	16M Clock out
12	VSS	GND	-	-	GND
13	XIN	XIN	I	-	16M Clock in
14	VCC1	VCC	-	-	3.3V
15	P8_5/*NMI	NMI	I	-	-
16	P8_4/*INT2/ZP	NC	-	-	-
17	P8_3/*INT1	DIR1_CFLUG	I	-	DIR INT = CFLUG
18	P8_2/*INT0	P_DOWN (P_OFF)	I	H	Power down detect
19	P8_1/TA4IN/*U	SPK-OUT	O	H	Speaker relay on
20	P8_0/TA4OUT/U	CONT5	O	L	for PLD
21	P7_7/TA3IN	KEY_ON (INT)	I	-	Input Selector Interrupt
22	P7_6/TA3OUT	LED_STBY (STB)	I	-	Standby LED
23	P7_5/TA2IN/*W	USBB_DSD_PCM	I	-	Master clock select
24	P7_4/TA2OUT/W	PROT-2	I	-	Protection2 :Voltage abnormal detect
25	P7_3/*CTS2/*RTS2/TA1IN/*V	VOLTAGE_PROTECT	I	-	Voltage abnormal detect for digital circuit
26	P7_2/CLK2/TA1OUT/V	PROT-1	I	-	Protection1:DC Offset / Over Current / Heat
27	P7_1/RXD2/SCL2/TA0IN/TB5IN (*OD)	BE_FL_DT	I	-	NC
28	P7_0/TXD2/SDA2/TA0OUT (*OD)	NC	O	L	-
29	P6_7/TXD1/SDA1	TXD	O	L	Update
30	P6_6/RXD1/SCL1	RXD	I	-	Update
31	P6_5/CLK1	MULTI□	O	L	for debug
32	P6_4/*CTS1/*RTS1/*CTS0/CLKS1	D_OFF	O	L	for debug
33	P6_3/TXD0/SDA0	78212_DI	O	L	LC78212 DI
34	P6_2/RXD0/SCL0	78212_CE	O	L	LC78212 CE
35	P6_1/CLK0	78212_CK	O	L	LC78212 CLK
36	P6_0/*CTS0/*RTS0	M_MUTE	O	H	Transistor mute for power amp
37	P5_7/*RDY/CLKOUT	USB-B_MODE	O	L	Master clock select
38	P5_6/ALE	AUDIO_DSD/PCM	I	L	for PLD
39	P5_5/*HOLD	EPM	O	-	Update
40	P5_4/*HLDA	E2P_CK	O	L	EEPROM CLK
41	P5_3/BCLK	E2P_DO	I	-	EEPROM DO
42	P5_2/*RD	E2P_DI	O	L	EEPROM DI
43	P5_1/*WRH/*BHE	E2P_CS	O	L	EEPROM CS
44	P5_0/*WRL/*WR	CE	O	L	for debug
45	P4_7/*CS3	M_B_DOWN	I	-	Checking port for amp power supply off confirm
46	P4_6/*CS2	DET	I	-	Signal detectin
47	P4_5/*CS1	CLT_M	O	L	Control digital power supply circuit on/off
48	P4_4/*CS0	NC	I	-	-
49	P4_3/A19	SDA_USB_RX	I	-	I2S for USB-DAC, CS2000
50	P4_2/A18	SCL_USB_RX	I	-	I2S for USB-DAC, CS2000
51	P4_1/A17	D_MUTE	I	L	for PLD
52	P4_0/A16	DAC_CONT_SEL	O	L	for PLD
53	P3_7/A15	DAC_RST_IN	O	L	DAC reset
54	P3_6/A14	KILL_IR	O	H	RC5 kill
55	P3_5/A13	RC-5 OUT	O	H	RC5 output
56	P3_4/A12	NRST	O	L	NC
57	P3_3/A11	SPK_A	O	L	Speaker relay on
58	P3_2/A10	NC	O	L	-
59	P3_1/A9	DIR1_RST	O	L	DIR reset
60	VCC2	Vcc	-	-	3.3V
61	P3_0/A8(/-/D7)	NC	O	H	-
62	VSS	GND	-	-	GND

Pin No.	Pin Name	Signal Name	I/O	Initial	Note
63	P2_7/AN2_7/A7(/D7/D6)	DIR1_CIDO	I	-	DIR DIDO
64	P2_6/AN2_6/A6(/D6/D5)	DIR1_CK	O	L	DIR CLK
65	P2_5/AN2_5/A5(/D5/D4)	DIR1_CE	O	L	DIR CE
66	P2_4/AN2_4/A4(/D4/D3)	DIR1_CODI	O	L	DIR CODI
67	P2_3/AN2_3/A3(/D3/D2)	NC	I	-	NC
68	P2_2/AN2_2/A2(/D2/D1)	DSD_MUTE_F	I	H	for PLD
69	P2_1/AN2_1/A1(/D1/D0)	DSDMUTE	I	-	NC
70	P2_0/AN2_0/A0(/D0/-)	SACD_LED_IN	I	-	NC
71	P1_7/D15/*INT5	USBB_MUTE	O	L	for USB-B
72	P1_6/D14/*INT4	USBB_INT	I	L	for USB-B
73	P1_5/D13/*INT3	REMOTE (RC5_IN)	I	-	RC5 input
74	P1_4/D12	NC	I	-	NC
75	P1_3/D11	NC	I	-	NC
76	P1_2/D10	NC	I	-	NC
77	P1_1/D9	MUTE	O	L	Transistor mute for digital input
78	P1_0/D8	PCONT (P_ON)	O	L	Primary relay on
79	P0_7/AN0_7/D7	USBB_VBUS DET	I	H	NC
80	P0_6/AN0_6/D6	USBB_44_48	I	-	for USB-B
81	P0_5/AN0_5/D5	DESTINATION_SEL	I	-	Destination selector (H/L=N/F,U,K)
82	P0_4/AN0_4/D4	VOL_UP	O	Hi-Z	Volume up
83	P0_3/AN0_3/D3	VOL_DOWN	O	Hi-Z	Volume down
84	P0_2/AN0_2/D2	PLD_DAC_SEL	O	H	for PLD
85	P0_1/AN0_1/D1	NC	O	L	NC
86	P0_0/AN0_0/D0	AL32_SIGN_SEL	O	L	for PLD
87	P10_7/AN7/*KI3	SDA_USB	I/O	H	I2S for USB-DAC, CS2000
88	P10_6/AN6/*KI2	SCL_USB	I/O	H	I2S for USB-DAC, CS2000
89	P10_5/AN5/*KI1	KEY1 (TACT)	I	-	Front tact sw A/D
90	P10_4/AN4/*KI0	SEL	I	-	Front input selector A/D
91	P10_3/AN3	USBB_RST	I	-	USB-B reset
92	P10_2/AN2	USB-B_DETECT	I	-	Detect USB-B connection
93	P10_1/AN1	4094_ST	O	L	LED control 4094 ST
94	AVSS	AVSS	-	-	GND
95	P10_0/AN0	4094_OE	O	L	LED control 4094 OE
96	VREF	VREF	-	-	A/D Reference
97	AVCC	AVCC	-	-	3.3V
98	P9_7/*ADTRG/SIN4	USBB_DBCK_CONT □PLD_RSV3□	O	L	for PLD
99	P9_6/ANEX1/SOUT4	4094_DI	O	H	LED control 4094 SI
100	P9_5/ANEX0/CLK4	4094_CK	O	H	LED control 4094 CK

Pin Assignment (top view)



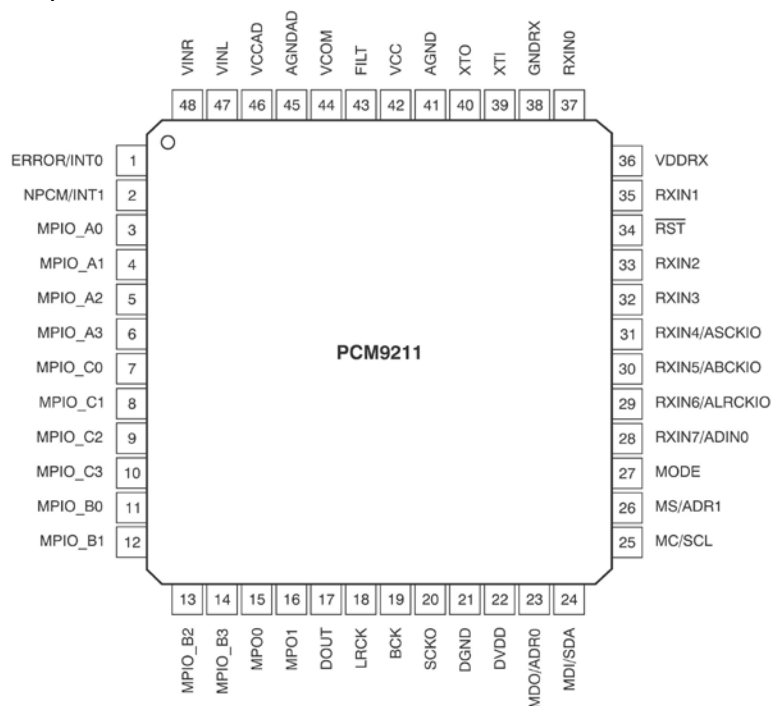
IEC Logic Symbol



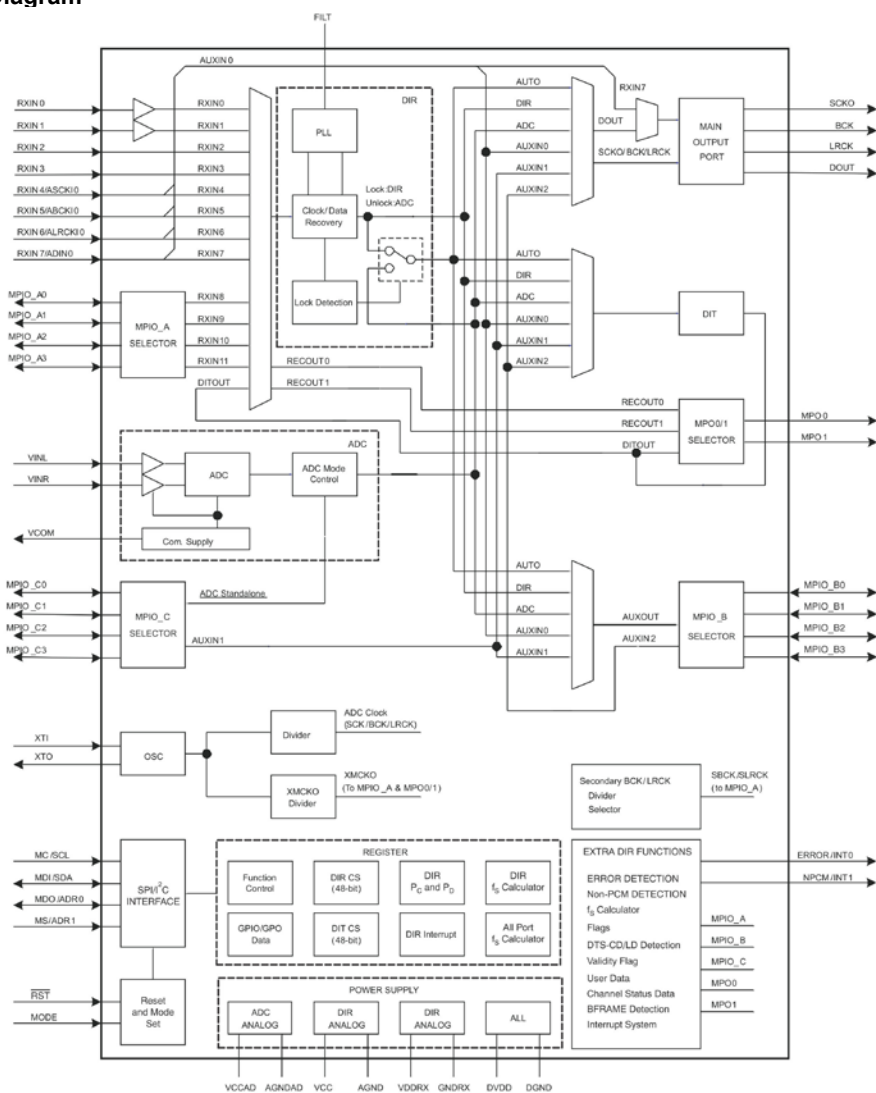
Truth Table

A	Y
L	H
H	L

PCM9211 (DIGITAL : U302)



PCM9211 Block Diagram



PCM9211 Pin Discriptions

PIN				DESCRIPTION
NO.	NAME	I/O	5-V TOLERANT	
1	ERROR/INT0	O	No	DIR Error detection output / Interrupt0 output
2	NPCM/INT1	O	No	DIR Non-PCM detection output / Interrupt1 output
3	MPIO_A0	I/O	Yes	Multipurpose I/O, Group A ⁽¹⁾
4	MPIO_A1	I/O	Yes	Multipurpose I/O, Group A ⁽¹⁾
5	MPIO_A2	I/O	Yes	Multipurpose I/O, Group A ⁽¹⁾
6	MPIO_A3	I/O	Yes	Multipurpose I/O, Group A ⁽¹⁾
7	MPIO_C0	I/O	Yes	Multipurpose I/O, Group C ⁽¹⁾
8	MPIO_C1	I/O	Yes	Multipurpose I/O, Group C ⁽¹⁾
9	MPIO_C2	I/O	Yes	Multipurpose I/O, Group C ⁽¹⁾
10	MPIO_C3	I/O	Yes	Multipurpose I/O, Group C ⁽¹⁾
11	MPIO_B0	I/O	Yes	Multipurpose I/O, Group B ⁽¹⁾
12	MPIO_B1	I/O	Yes	Multipurpose I/O, Group B ⁽¹⁾
13	MPIO_B2	I/O	Yes	Multipurpose I/O, Group B ⁽¹⁾
14	MPIO_B3	I/O	Yes	Multipurpose I/O, Group B ⁽¹⁾
15	MPO0	O	No	Multipurpose output 0
16	MPO1	O	No	Multipurpose output 1
17	DOUT	O	No	Main output port, serial digital audio data output
18	LRCK	O	No	Main output port, LR clock output
19	BCK	O	No	Main output port, Bit clock output
20	SCKO	O	No	Main output port, System clock output
21	DGND	–	–	Ground, for digital
22	DVDD	–	–	Power supply, 3.3 V (typ.), for digital
23	MDO/ADR0	I/O	Yes	Software control I/F, SPI data output / I ² C slave address setting ⁰ (²)
24	MDI/SDA	I/O	Yes	Software control I/F, SPI data input / I ² C data input/output ⁽²⁾ (³)
25	MC/SCL	I	Yes	Software control I/F, SPI clock input / I ² C clock input ⁽²⁾
26	MS/ADR1	I	Yes	Software control I/F, SPI chip select / I ² C slave address setting ¹ (²)
27	MODE	I	No	Control mode setting, (see the Serial Control Mode section, Control Mode Pin Setting)
28	RXIN7/AUXIN0	I	Yes	Biphase signal, input 7 / AUXIN0, serial audio data input ⁽²⁾
29	RXIN6/ALRCKI0	I	Yes	Biphase signal, input 6 / AUXIN0, LR clock input ⁽²⁾
30	RXIN5/ABCKI0	I	Yes	Biphase signal, input 5 / AUXIN0, bit clock input ⁽²⁾
31	RXIN4/ASCKI0	I	Yes	Biphase signal, input 4 / AUXIN0, system clock input ⁽²⁾
32	RXIN3	I	Yes	Biphase signal, input 3 ⁽²⁾
33	RXIN2	I	Yes	Biphase signal, input 2 ⁽²⁾
34	RST	I	Yes	Reset Input, active low ⁽²⁾ (⁴)
35	RXIN1	I	Yes	Biphase signal, input 1, built-in coaxial amplifier
36	VDRRX	–	–	Power supply, 3.3 V (typ.), for RXIN0 and RXIN1.
37	RXIN0	I	Yes	Biphase signal, input 0, built-in coaxial amplifier
38	GNDRX	–	–	Ground, for RXIN
39	XTI	I	No	Oscillation circuit input for crystal resonator or external XTI clock source input ⁽⁵⁾
40	XTO	O	No	Oscillation circuit output for crystal resonator
41	AGND	–	–	Ground, for PLL analog
42	VCC	–	–	Power supply, 3.3 V (typ.), for PLL analog
43	FILT	O	No	External PLL loop filter connection terminal; must connect recommended filter
44	VCOM	O	No	ADC common voltage output; must connect external decoupling capacitor
45	AGNDAD	–	–	Ground, for ADC analog
46	VCCAD	–	–	Power supply, 5.0 V (typ.), for ADC analog
47	VINL	I	No	ADC analog voltage input, left channel
48	VINR	I	No	ADC analog voltage input, right channel

(1) Schmitt trigger input

(2) Schmitt trigger input

(3) Open-drain configuration in I²C mode

(4) Onboard pull-down resistor (50 kΩ, typical)

(5) CMOS Schmitt trigger input

ADuM1285 (DIGITAL : U402, U403, U404)

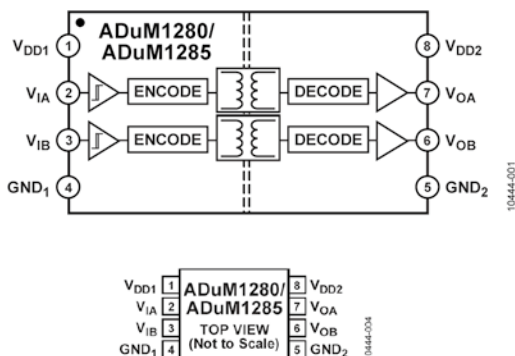
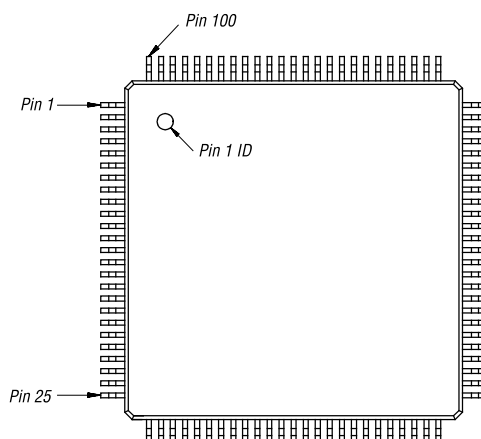


Figure 4. ADuM1280/ADuM1285 Pin Configuration

Table 20. ADuM1280/ADuM1285 Pin Function Descriptions

Pin No.	Mnemonic	Description
1	V _{DD1}	2.7 V to 5.5 V Supply Voltage for Isolator Side 1.
2	V _{IA}	Logic Input A.
3	V _{IB}	Logic Input B.
4	GND ₁	Ground 1. Ground reference for Isolator Side 1.
5	GND ₂	Ground 2. Ground reference for Isolator Side 2.
6	V _{OB}	Logic Output B.
7	V _{OA}	Logic Output A.
8	V _{DD2}	2.7 V to 5.5 V Supply Voltage for Isolator Side 2.

EPM240T100C5N (DIGITAL : U800)



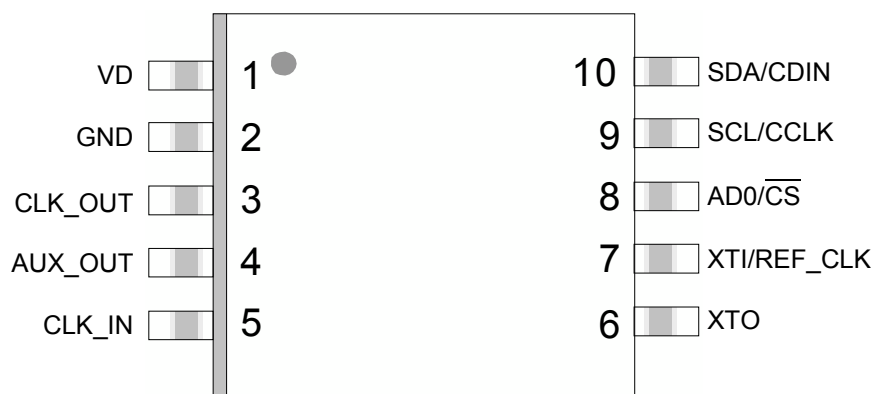
EPM240T100C5N Terminal Function

Pin NO.	New	Pin/Pad Name	Connect Device	Direction	Detail
1	IO	NC	-	-	NC
2	IO	NC	-	-	NC
3	IO	NC	-	-	NC
4	IO	.MODE3.	CD MECHA	IN	PLD_RST(MODE3.)
5	IO	.SRDATA0	CD MECHA	IN	SRDATA BE→PLD Control
6	IO	.SRCLK	CD MECHA	IN	SRCLK BE→PLD Control
7	IO	.DFRST_IN	CD MECHA	IN	DFRST_IN BE→PLD Control
8	IO	.MODE2.	CD MECHA	IN	MP3 fs (44.1k,48k:L / 32k:H) Detect
9	VCCIO1	33_VCCIO	DA3.3V	-	Power Supply
10	GNDIO	GND	DGND	-	Ground
11	GNDINT	GND	DGND	-	Ground
12	IO/GCLK0	.FE_DSD/PCM	CD MECHA	IN	MODE(FE_DSD/PCM)
13	VCCINT	33_VCCIO	DA3.3V	-	Power Supply
14	IO/GCLK1	.BE_DAC_CS	CD MECHA	IN	BE_DAC_CS
15	IO	.PDATA0	CD MECHA	IN	PDATA0
16	IO	.PLRCK	CD MECHA	IN	PLRCK
17	IO	.PBCK.	CD MECHA	IN	PBCK.
18	IO	.DMIX_L	CD MECHA	IN	DMIX_L
19	IO	.DMIX_R	CD MECHA	IN	DMIX_R
20	IO	.DBCK	CD MECHA	IN	DBCK
21	IO	.PMCK	CD MECHA	IN	PMCK
22	TMS	.TMS	PLD UPDATE	IN	Test Mode State for JTAG

Pin NO.	New	Pin/Pad Name	Connect Device	Direction	Detail
23	TDI	.TDI	PLD UPDATE	IN	Test Data Input for JTAG
24	TCK	.TCK	PLD UPDATE	IN	Test Clock for JTAG
25	TDO	.TDO	PLD UPDATE	OUT	Test Data Out for JTAG
26	IO	.SLAVE_MCK	CD MECHA	OUT	CD MECHA MCK(33.8688MHz)
27	IO	.DAC_DSD_DATA	DSD1792A	OUT	DAC_DSD_DATA
28	IO	.DAC_DSD_DATAR	DSD1792A	OUT	DAC_DSD_DATAR
29	IO	.DAC_DSD_BCK	DSD1792A	OUT	DAC_DSD_BCK
30	IO	.DAC_LRCK	DSD1792A	OUT	DAC_LRCK
31	VCCIO1	33_VCCIO	DA3.3V	-	Power Supply
32	GNDIO	GND	DGND	-	Ground
33	IO	.DAC_DATA	DSD1792A	OUT	DAC_DATA
34	IO	.DAC_BCK	DSD1792A	OUT	DAC_BCK
35	IO	.DAC_MCK_22.5792M	DAC_MCK 22M	IN	DAC_MCK 22.5792MHz
36	IO	.22.5792M_DIR	DIR_MCK 22M	IN	DIR_MCK 22.5792MHz
37	IO	.22.5792M_USBA	USBA_MCK 22M	IN	USBA_MCK 22.5792MHz
38	IO	.DAC_MCK_24.576M	DAC_MCK 24M	IN	DAC_MCK 24.576MHz
39	IO	PLD_AMUTE	AUDIO MUTE	OUT	ANALOG Mute
40	IO	.44/48	AUDIO UNIT SELECTOR	OUT	Switch MCK (22M/24M)
41	IO	.DAC_CS_OUT	DSD1792A	OUT	DAC_CS_OUT
42	IO	.DAC_DATA_OUT	DSD1792A	OUT	DAC_DATA_OUT
43	IO/DEV_OE	.DAC_CK_OUT	DSD1792A	OUT	DAC_CK_OUT
44	IO/DEV_CLRn	3.3DD_MONI	+3.3DD	IN	+3.3DD Moni
45	VCCIO1	33_VCCIO	DA3.3V	-	Power Supply
46	GNDIO	GND	DGND	-	Ground
47	IO	.DAC_RST_OUT	DSD1792A	OUT	DAC_RST
48	IO	.CS2000MCK_OUT	CS2000	OUT	CS2000MCK_OUT
49	IO	.CS2000MCK_IN	CS2000	IN	CS2000MCK_IN
50	IO	.PLD_RSV3	M3062LFGPGP	OUT	PLD_RSV3
51	IO	.PLD_DAC_SEL	AUDIO UNIT SELECTOR	OUT	PLD_DAC_SEL
52	IO	.DAC_CK_IN	M3062LFGPGP	IN	DAC_CK_IN : for L/Rch DAC :to DSD1792A MC
53	IO	.DAC_CS_IN	M3062LFGPGP	IN	DAC_CS_IN : for L/Rch DAC:to DSD1792A MS
54	IO	.DAC_DATA_IN	M3062LFGPGP	IN	DAC_DATA_IN : for L/Rch DAC:to DSD1792A MDI
55	IO	.USBB_MODE	M3062LFGPGP	IN	USB_B_MODE
56	IO	.DIR1_MCK	PCM9211	IN	DIR_MCK
57	IO	.DIR1_BCK	PCM9211	IN	DIR_BCK
58	IO	.DIR1_LRCK	PCM9211	IN	DIR_LRCK
59	VCCIO2	33_VCCIO	DA3.3V	-	Power Supply
60	GNDIO	GND	DGND	-	Ground
61	IO	.DIR1_DATA	PCM9211	IN	DIR_DATA
62	IO/GCLK2	.ERROR	PCM9211	IN	DIR_ERROR
63	VCCINT	33_VCCIO	DA3.3V	-	Power Supply
64	IO/GCLK3	.USBB_DSD_PCM	"TMS320C6748BZWT3 /M3062LFGPGP"	IN	USBB_DSD_PCM
65	GNDINT	GND	DGND	-	Ground
66	IO	.USBB_44/48	"TMS320C6748BZWT3 /(M3062LFGPGP)"	IN	USBB Moni (44.1kHz:L/48kHz:H)
67	IO	.USBB_DSD_BCK	TMS320C6748BZWT3	IN	USBB_DSD_BCK
68	IO	.USBB_DSD_DATA_L	TMS320C6748BZWT3	IN	USBB_DSD_DATA_L
69	IO	.USBB_DSD_DATA_R	TMS320C6748BZWT3	IN	USBB_DSD_DATA_R
70	IO	.CD_USBB_DIR	M3062LFGPGP	IN	MODE (CD,USBB/DIR) Detect
71	IO	NC	CS2000	-	NC
72	IO	USBB_MUTE	TMS320C6748BZWT3	IN	USBB Mute Control
73	IO	NC	-	-	NC
74	IO	NC	-	-	NC
75	IO	NC	-	-	NC
76	IO	.INT_EXT	M3062LFGPGP	IN	INT/EXT selection port
77	IO	.D_MUTE	M3062LFGPGP	IN	Moni USBB_PCM→DSD MUTE timing
78	IO	.DAC_CONT_SEL	M3062LFGPGP	IN	DAC_CONT_SEL (SYSCON/DV3.2)
79	GNDIO	GND	DGND	-	Ground
80	VCCIO2	33_VCCIO	DA3.3V	-	Power Supply
81	IO	.DAC_RST_IN	M3062LFGPGP	IN	DAC_RST_IN : for L/Rch DAC:to DSD1792A RST
82	IO	.DSD_MUTE_F	M3062LFGPGP	IN	EN_VER(DSD_MUTE_F) : USBB_DSD→PCM MUTE timing

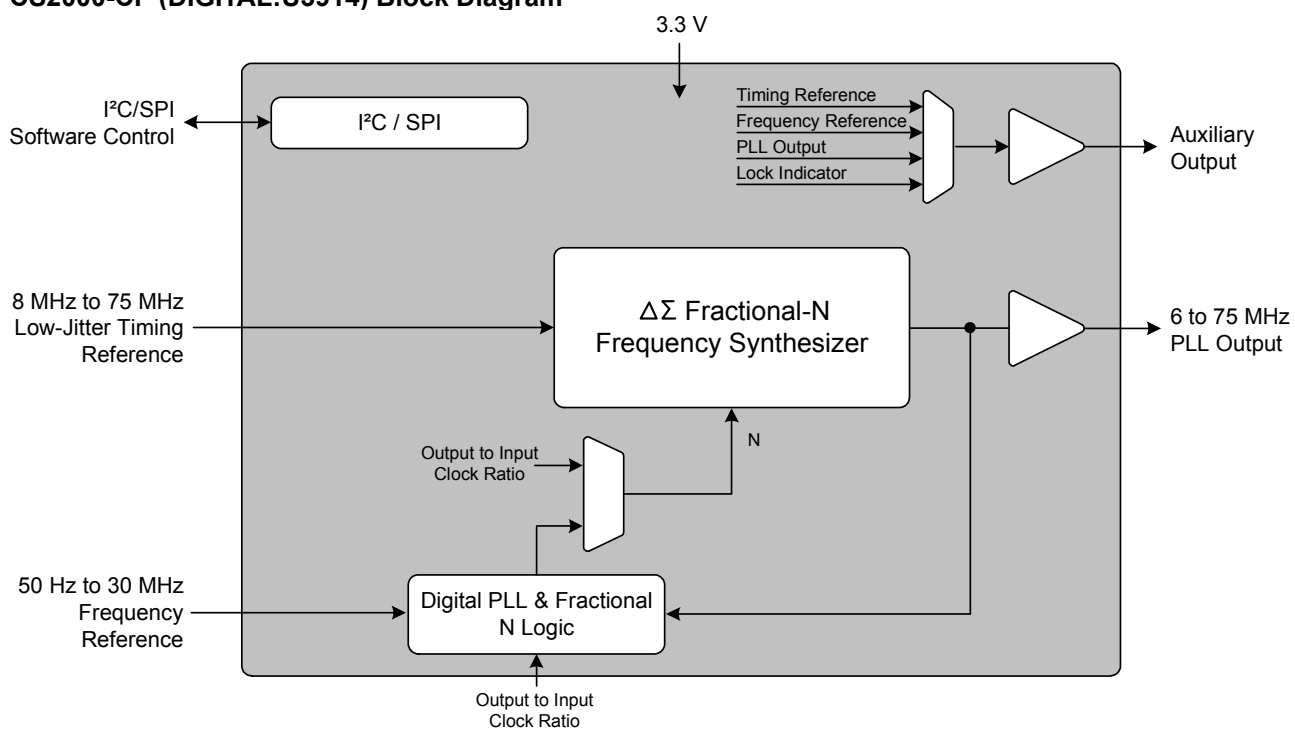
Pin NO.	New	Pin/Pad Name	Connect Device	Direction	Detail
83	IO	.USBB_MCK_OUT	"TMS320C6748BZWT3 /PCM9211"	OUT	MCK for USB-DAC,DIR
84	IO	.M/SEL	N3305 7P FFC Connector	OUT	M/SEL for SYSCON Update
85	IO	.AUDIO_DSD/PCM	M3062LFGPGP	IN	Audio Gain (SACD : Hi/Others : Lo) Detect
86	IO	.CONT5.	M3062LFGPGP	IN	MCK (USB-A/Others) Detect
87	IO	CLK22.5792Mhz	AK8142	OUT	AK8142 22.5792MHz
88	IO	.SLAVE_MCK_33.8688M	AK8142	IN	AK8142 MCK 33.8688MHz
89	IO	.OCXO_IN_22.5792M	AK8142	OUT	AK8142 22.5792MHz
90	IO	AMUTE	AUDIO UNIT	IN	DV3.2 AMUTE (L : MUTE/H : MUTE Off)
91	IO	NC	-	-	NC
92	IO	NC	-	-	NC
93	GNDIO	GND	DGND	-	Ground
94	VCCIO2	33_VCCIO	DA3.3V	-	Power Supply
95	IO	NC	-	-	NC
96	IO	NC	-	-	NC
97	IO	NC	-	-	NC
98	IO	NC	-	-	NC
99	IO	NC	-	-	NC
100	IO	NC	-	-	NC

CS2000-CP (DIGITAL:U801)



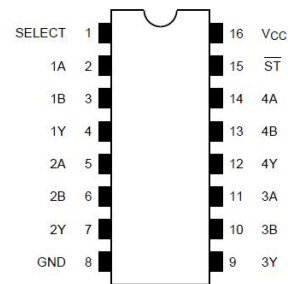
Pin Name	#	Pin Description
VD	1	Digital Power (Input) - Positive power supply for the digital and analog sections.
GND	2	Ground (Input) - Ground reference.
CLK_OUT	3	PLL Clock Output (Output) - PLL clock output.
AUX_OUT	4	Auxiliary Output (Output) - This pin outputs a buffered version of one of the input or output clocks, or a status signal, depending on register configuration.
CLK_IN	5	Frequency Reference Clock Input (Input) - Clock input for the Digital PLL frequency reference.
XTO XTI/REF_CLK	6 7	Crystal Connections (XTI/XTO) / Timing Reference Clock Input (REF_CLK) (Input/Output) - XTI/XTO are I/O pins for an external crystal which may be used to generate the low-jitter PLL input clock. REF_CLK is an input for an externally generated low-jitter reference clock.
AD0/ $\overline{CS}$	8	Address Bit 0 (I²C) / Control Port Chip Select (SPI) (Input) - AD0 is a chip address pin in I ² C Mode. CS is the chip select signal in SPI Mode.
SCL/CCLK	9	Control Port Clock (Input) - SCL/CCLK is the serial clock for the serial control port in I ² C and SPI mode.
SDA/CDIN	10	Serial Control Data (Input/Output) - SDA is the data I/O line in I ² C Mode. CDIN is the input data line for the control port interface in SPI Mode.

CS2000-CP (DIGITAL:U3914) Block Diagram

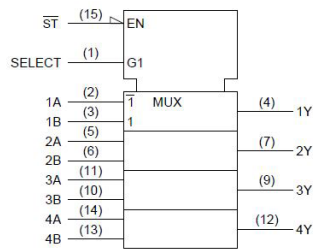


TC74LCX157FT (DIGITAL : U307, U308)

Pin Assignment (top view)



IEC Logic Symbol

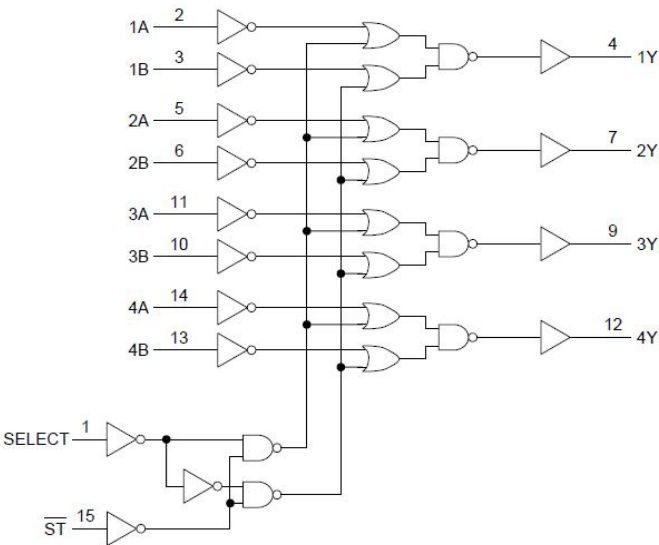


Truth Table

Inputs				Outputs
ST	SELECT	A	B	Y
H	X	X	X	L
L	L	L	X	L
L	L	H	X	H
L	H	X	L	L
L	H	X	H	H

X: Don't care

System Diagram



CS4398 (DIGITAL : U309)

DSD_B	1	DSD_A	28
DSD_SCLK	2	VLS	27
SDIN	3	VQ	26
SCLK	4	AMUTE _C	25
LRCK	5	AOUTA ₋	24
MCLK	6	AOUTA ₊	23
VD	7	VA	22
DGND	8	AGND	21
M3 (AD1/CDIN)	9	AOUTB ₊	20
M2 (SCL/CCLK)	10	AOUTB ₋	19
M1 (SDA/CDO _{UT})	11	BMUTE _C	18
M0 (AD0/ $\overline{\text{CS}}$)	12	VREF	17
RST	13	REF_GND	16
VLC	14	FILT ₊	15

CS4398 Terminal Functions

Pin Name	Pin #	Pin Description
DSD_A	28	Direct Stream Digital Input (<i>Input</i>) - Input for Direct Stream Digital serial audio data.
DSD_B	1	
DSD_SCLK	2	DSD Serial Clock (<i>Input</i>) - Serial clock for the Direct Stream Digital audio interface.
SDIN	3	Serial Audio Data Input (<i>Input</i>) - Input for two's complement serial audio data.
SCLK	4	Serial Clock (<i>Input</i>) - Serial clock for the serial audio interface.
LRCK	5	Left Right Clock (<i>Input</i>) - Determines which channel, Left or Right, is currently active on the serial audio data line.
MCLK	6	Master Clock (<i>Input</i>) - Clock source for the delta-sigma modulator and digital filters.
VD	7	Digital Power (<i>Input</i>) - Positive power for the digital section.
DGND	8	Digital Ground (<i>Input</i>) - Ground reference for the digital section.
RST	13	Reset (<i>Input</i>) - The device enters system reset when enabled.
VLC	14	Control Port Power (<i>Input</i>) - Positive power for Control Port I/O.
FILT+	15	Positive Voltage Reference (<i>Output</i>) - Positive reference voltage for the internal sampling circuits.
REF_GND	16	Reference Ground (<i>Input</i>) - Ground reference for the internal sampling circuits.
VREF	17	Voltage Reference (<i>Input</i>) - Positive voltage reference for the internal sampling circuits.
BMUTE _C	18	Mute Control (<i>Output</i>) - The Mute Control pin is active during power-up initialization, muting, power-down or if the master clock to left/right clock frequency ratio is incorrect. During reset, these outputs are set to a high impedance.
AMUTE _C	25	
AOUTB+	20	Differential Right Channel Analog Output (<i>Output</i>) - The full-scale differential analog output level is specified in the Analog Characteristics specification table.
AOUTB-	19	
AGND	21	Analog Ground (<i>Input</i>) - Ground reference for the analog section.
VA	22	Analog Power (<i>Input</i>) - Positive power for the analog section.
AOUTA+	23	Differential Left Channel Analog Output (<i>Output</i>) - The full-scale differential analog output level is specified in the Analog Characteristics specification table.
AOUTA-	24	
VQ	26	Quiescent Voltage (<i>Output</i>) - Filter connection for internal quiescent voltage.
VLS	27	Serial Audio Interface Power (<i>Input</i>) - Positive power for serial audio interface I/O.
Stand-Alone Mode Definitions		
M3	9	Mode Selection (<i>Input</i>) - Determines the operational mode of the device.
M2	10	
M1	11	
M0	12	
Control Port Mode Definitions		
AD1/CDIN	9	Address Bit 1 (I²C) / Control Data Input (SPI) (<i>Input</i>) - AD1 is a chip address pin in I ² C mode; CDIN is the input data line for the Control Port interface in SPI mode.
SCL/CCLK	10	Serial Control Port Clock (<i>Input</i>) - Serial clock for the serial Control Port.
SDA/CDO _{UT}	11	Serial Control Data (I²C) / Control Data Output (SPI) (<i>Input/Output</i>) - SDA is a data I/O line in I ² C mode. CDO _{UT} is the output data line for the Control Port interface in SPI mode.
AD0/ $\overline{\text{CS}}$	12	Address Bit 0 (I²C) / Control Port Chip Select (SPI) (<i>Input</i>) - AD0 is a chip address pin in I ² C mode; $\overline{\text{CS}}$ is the chip select signal for SPI format.

MAIN PCB ASS'Y

※Parts indicated by "nsp"on this table cannot be supplied.

※The parts listed b NOTE:The symbols in the column Remarks indicate the following destinations.

U : North America model N : Europe model K : China model F : Japan model

B : Black model SG : Silver gold model

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
SEMICONDUCTORS GROUP						
D2801	20105001130AS	1SS133(HOMI)		20105001130AS	1	
D2901	00D3939607908	SLR342VC(TB7)		00D3939607908	1	
D3001-3005	20105001130AS	1SS133(HOMI)		20105001130AS	1	
D3901	20105001130AS	1SS133(HOMI)		20105001130AS	1	
D3904,3905	20105001130AS	1SS133(HOMI)		20105001130AS	1	
D3907	20105001130AS	1SS133(HOMI)		20105001130AS	1	
D6005-6020	20105001130AS	1SS133(HOMI)		20105001130AS	1	
D7003-7006	00MHE22001499Y	KDS122 TAPING		00MHE22001499Y	1	
! D8001	00MHE10003100	IFCH10A15		00MHE10003100	1	
! D8002	00MHE10004100	IFRH10A15		00MHE10004100	1	
D8101,8102	00D2760798922	UDZS18B-TE17		00D2760798922	1	
D8103,8104	20105001130AS	1SS133(HOMI)		20105001130AS	1	
! D8301	203010001007S	D3SB60		203010001007S	1	
D9011,9012	20105001130AS	1SS133(HOMI)		20105001130AS	1	
D9501,9502	20305004130AS	1A7		20305004130AS	1	
D9503,9504	20105001130AS	1SS133(HOMI)		20105001130AS	1	
D9505,9506	20305004130AS	1A7		20305004130AS	1	
Q2801	00D2730464901	KTC3875S-GR-RTK/P		00D2730464901	1	
Q2802,2803	00D2730460905	KTC2875-B-RTK/P		00D2730460905	1	
Q3009,3010	21105002140AS	KSA992FTA		21105002140AS	1	
Q3011-3014	21305002440AS	KSC1845FTA		21305002440AS	1	
Q3015-3018	21105002140AS	KSA992FTA		21105002140AS	1	
Q3019-3024	21305002440AS	KSC1845FTA		21305002440AS	1	
Q3025-3030	21105002140AS	KSA992FTA		21105002140AS	1	
Q3031,3032	21305002440AS	KSC1845FTA		21305002440AS	1	
Q3033,3034	21105002140AS	KSA992FTA		21105002140AS	1	
Q3035,3036	21305002440AS	KSC1845FTA		21305002440AS	1	
Q3037,3038	21105002140AS	KSA992FTA		21105002140AS	1	
Q3039-3042	21305002440AS	KSC1845FTA		21305002440AS	1	
Q3043,3044	21105002140AS	KSA992FTA		21105002140AS	1	
Q3045	00D2690192902	KRC102S-RTK/P (10K-10K)		00D2690192902	1	
Q3901-3903	00D2690192902	KRC102S-RTK/P (10K-10K)		00D2690192902	1	
Q6001,6002	21105002140AS	KSA992FTA		21105002140AS	1	
Q6003-6008	21305002440AS	KSC1845FTA		21305002440AS	1	
Q6009-6014	21105002140AS	KSA992FTA		21105002140AS	1	
Q6015,6016	21305002440AS	KSC1845FTA		21305002440AS	1	
Q6017,6018	21105002140AS	KSA992FTA		21105002140AS	1	
Q6019,6020	00D2710314903	KTA1024-Y-AT/P		00D2710314903	1	
Q6021,6022	00D2730471907	KTC3206-Y-AT/P		00D2730471907	1	
Q6023,6024	21305002440AS	KSC1845FTA		21305002440AS	1	
Q6025-6028	21305001240AS	KTC3198-GR-AT/P		21305001240AS	1	
Q6029-6034	00D2710300904	KTA1266-GR-AT/P		00D2710300904	1	
Q6035,6036	21305001240AS	KTC3198-GR-AT/P		21305001240AS	1	
! Q7001,7002	00D2730445001	2SC4495		00D2730445001	1	
Q7003,7004	00D2730471907	KTC3206-Y-AT/P		00D2730471907	1	
Q7005,7006	00D2710314903	KTA1024-Y-AT/P		00D2710314903	1	
Q7007,7008	21305001420AS	KTC3423-Y-U/PH		21305001420AS	1	
Q7009,7010	21105001420AS	KTA1360-Y-U/PH		21105001420AS	1	
Q8015	00D2710312905	KTA1504S-GR-RTK/P		00D2710312905	1	
! Q8101	00MHT348832A0	TRANSISTOR 2SC4883 O OR Y		00MHT348832A0	1	
! Q8102	00MHT118592A0	TRANSISTOR 2SA1859 O OR Y		00MHT118592A0	1	
Q8103	00D2710312905	KTA1504S-GR-RTK/P		00D2710312905	1	
Q8104	00D2730464901	KTC3875S-GR-RTK/P		00D2730464901	1	
Q8301	00D2757001907	FDC608PZ		00D2757001907	1	
Q8302	00D2690192902	KRC102S-RTK/P (10K-10K)		00D2690192902	1	
Q9001-9004	00D2730464901	KTC3875S-GR-RTK/P		00D2730464901	1	
Q9011	00D2710312905	KTA1504S-GR-RTK/P		00D2710312905	1	
Q9012	00D2690192902	KRC102S-RTK/P (10K-10K)		00D2690192902	1	
Q9013	00D2690184907	KRA102S-RTK/P (10K-10K)		00D2690184907	1	
Q9014-9016	00D2690192902	KRC102S-RTK/P (10K-10K)		00D2690192902	1	
Q9017	00D2730464901	KTC3875S-GR-RTK/P		00D2730464901	1	
Q9018	00D2710300904	KTA1266-GR-AT/P		00D2710300904	1	
Q9501,9502	00D2710318909	2N5401S-RTK/P		00D2710318909	1	
Q9503,9504	00D2730479909	2N5551S-RTK/P		00D2730479909	1	
Q9505,9506	00D2710318909	2N5401S-RTK/P		00D2710318909	1	
Q9507,9508	00D2730464901	KTC3875S-GR-RTK/P		00D2730464901	1	
Q9509	00D2690192902	KRC102S-RTK/P (10K-10K)		00D2690192902	1	
Q9510	00D2730464901	KTC3875S-GR-RTK/P		00D2730464901	1	
U3001	23281004150AS	NJM8080G		23281004150AS	1	
U3801	23281004150AS	NJM8080G		23281004150AS	1	
U3902	23281004150AS	NJM8080G		23281004150AS	1	
U3903	00MHC10309030	IC LC78212:CMOS LOGIC SANYO		00MHC10309030	1	
! U8301	00D2631211004	BA00JC5WT		00D2631211004	1	
! U8302	00D2631264006	PQ033RDA2SZH		00D2631264006	1	
RESISTOR GROUP						
R2801,2802	nsp	RD14B2E271JT(5)		00D2412397927	1	
R2803,2804	nsp	RD14B2E332JT(5)		00D2412399970	1	
R2805,2806	nsp	RM73B--103JT +1608		00D2472009983	1	
! R2807	00MGG0510016X	10 OHM +- 5% 1/6W		00MGG0510016X	1	
R2808	nsp	RM73B--105JT +1608		00D2472014965	1	
R2901,2902	nsp	RM73B--101JT +1608		00D2472005903	1	
R3001,3002	nsp	RD14B2E224JT(5)		00D2412404917	1	
R3003,3004	nsp	RD14B2E221JT(5)		00D2412397901	1	
R3005,3006	nsp	RD14B2E224JT(5)		00D2412404917	1	
R3007,3008	nsp	RD14B2E561JT(5)		00D2412397998	1	
R3009,3010	nsp	RD14B2E224JT(5)		00D2412404917	1	
R3013,3014	nsp	RD14B2E224JT(5)		00D2412404917	1	
R3015,3016	nsp	RD14B2E221JT(5)		00D2412397901	1	
R3019,3020	nsp	RD14B2E221JT(5)		00D2412397901	1	
R3023,3024	nsp	RD14B2E223JT(5)		00D2412401978	1	
R3039,3040	nsp	RD14B2E104JT(5)		00D2412403934	1	
! R3041,3042	00MGG0510016X	10 OHM +- 5% 1/6W		00MGG0510016X	1	
R3043,3044	nsp	RD14B2E224JT(5)		00D2412404917	1	
R3045,3046	nsp	RD14B2E223JT(5)		00D2412401978	1	
R3047,3048	nsp	RD14B2E471JT(5)		00D2412397972	1	
R3049-3052	nsp	RD14B2E220JT(5)		00D2412394962	1	
R3053-3056	nsp	RD14B2E153JT(5)		00D2412401936	1	
R3057-3060	nsp	RD14B2E220JT(5)		00D2412394962	1	

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
R3061,3062	nsp	RD14B2E104JT(5)		00D2412403934	1	
! R3063,3064	00MGG0510016X	10 OHM +- 5% 1/6W		00MGG0510016X	1	
R3065,3066	nsp	RD14B2E102JT(5)		00D2412398955	1	
R3067,3068	nsp	RD14B2E331JT(5)		00D2412397943	1	
R3071,3072	nsp	RD14B2E153JT(5)		00D2412401936	1	
R3077-3080	nsp	RD14B2E101JT(5)		00D2412396928	1	
R3081,3082	nsp	RD14B2E153JT(5)		00D2412401936	1	
R3083-3086	nsp	RD14B2E220JT(5)		00D2412394962	1	
R3087,3088	nsp	RD14B2E153JT(5)		00D2412401936	1	
R3089-3092	nsp	RD14B2E220JT(5)		00D2412394962	1	
R3093,3094	nsp	RD14B2E105JT(5)		00D2412405974	1	
R3095-3098	nsp	RD14B2E471JT(5)		00D2412397972	1	
R3099,3100	nsp	RD14B2E331JT(5)		00D2412397943	1	
R3103-3106	nsp	RD14B2E221JT(5)		00D2412397901	1	
R3107,3108	nsp	RD14B2E153JT(5)		00D2412401936	1	
R3109-3112	nsp	RD14B2E220JT(5)		00D2412394962	1	
R3113,3114	nsp	RD14B2E153JT(5)		00D2412401936	1	
R3115-3118	nsp	RD14B2E220JT(5)		00D2412394962	1	
! R3119-3122	00MGG0510016X	10 OHM +- 5% 1/6W		00MGG0510016X	1	
R3123,3124	nsp	RD14B2E104JT(5)		00D2412403934	1	
! R3127	00MGG0510016X	10 OHM +- 5% 1/6W		00MGG0510016X	1	
! R3801,3802	00MGG0510016X	10 OHM +- 5% 1/6W		00MGG0510016X	1	
R3803-3806	nsp	RD14B2E104JT(5)		00D2412403934	1	
R3807,3808	nsp	RD14B2E470JT(5)		00D2412395945	1	
R3909,3910	nsp	RD14B2E103JT(5)		00D2412400995	1	
R3911	nsp	RD14B2E101JT(5)		00D2412396928	1	
R3912	nsp	RD14B2E393JT(5)		00D2412402935	1	
R3913	nsp	RD14B2E473JT(5)		00D2412402951	1	
R3919,3920	nsp	RD14B2E104JT(5)		00D2412403934	1	
R3921,3922	nsp	RD14B2E223JT(5)		00D2412401978	1	
R3923,3924	nsp	RD14B2E224JT(5)		00D2412404917	1	
R3931	nsp	RD14B2E103JT(5)		00D2412400995	1	
R3934-3936	nsp	RM73B--103JT +1608		00D2472009983	1	
R6001,6002	nsp	RD14B2E224JT(5)		00D2412404917	1	
R6003,6004	nsp	RD14B2E223JT(5)		00D2412401978	1	
R6005,6006	nsp	RD14B2E101JT(5)		00D2412396928	1	
R6007,6008	nsp	RD14B2E273JT(5)		00D2412401994	1	
R6009,6010	nsp	RD14B2E183JT(5)		00D2412401952	1	
R6011-6014	nsp	RD14B2E220JT(5)		00D2412394962	1	
R6015,6016	nsp	RD14B2E183JT(5)		00D2412401952	1	
R6017,6018	nsp	RD14B2E273JT(5)		00D2412401994	1	
R6019,6020	00D2412396928	RD14B2E101JT(5)		00D2412396928	1	
R6021-6024	nsp	RD14B2E220JT(5)		00D2412394962	1	
R6025,6026	1240500030090	MOS2CL15A152J 1.5KOHM +-5% 2W		1240500030090	1	
R6027-6030	00MGG0547116X	470 OHM +- 5% 1/6W		00MGG0547116X	1	
R6031,6032	00MGG0518116X	180 OHM +- 5% 1/16W		00MGG0518116X	1	
R6033-6036	nsp	RD14B2E105JT(5)		00D2412405974	1	
R6037,6038	00MGG0518116X	180 OHM +- 5% 1/16W		00MGG0518116X	1	
R6039,6040	nsp	RD14B2E682JT(5)		00D2412400953	1	
R6041,6042	nsp	RD14B2E220JT(5)		00D2412394962	1	
R6043,6044	nsp	RD14B2E682JT(5)		00D2412400953	1	
R6045-6048	nsp	RD14B2E220JT(5)		00D2412394962	1	
R6049,6050	nsp	RD14B2E104JT(5)		00D2412403934	1	
R6051-6054	nsp	RD14B2E220JT(5)		00D2412394962	1	
R6055,6056	nsp	RD14B2E104JT(5)		00D2412403934	1	
R6057,6058	nsp	RD14B2E474JT(5)		00D2412404991	1	
R6059,6060	nsp	RD14B2E104JT(5)		00D2412403934	1	
R6061-6064	nsp	RD14B2E473JT(5)		00D2412402951	1	
! R6065-6068	00MGG0510016X	10 OHM +- 5% 1/6W		00MGG0510016X	1	
R7003,7004	nsp	RD14B2E102JT(5)		00D2412398955	1	
R7005,7006	nsp	RD14B2E103JT(5)		00D2412400995	1	
R7007-7010	00MGG0547116X	470 OHM +- 5% 1/6W		00MGG0547116X	1	
! R7011,7012	00MGG0510216X	1K OHM +- 5% 1/6W		00MGG0510216X	1	
! R7013-7016	00MGG0547016X	47 OHM +- 5% 1/6W		00MGG0547016X	1	
! R7017,7018	00MGG0522116X	220 OHM +- 5% 1/6W		00MGG0522116X	1	
! R7019-7022	00MGG0510016X	10 OHM +- 5% 1/6W		00MGG0510016X	1	
! R7023,7024	12905015000AS	0.1OHM/5W X2 (BPR55CFR10J)		12905015000AS	1	*
! R7027,7028	1240500010030	MOS2CL15A100J100OHM +-5% 2W		1240500010030	1	
R7029,7030	nsp	RD14B2E182JT(5)		00D2412399912	1	
R8001,8002	nsp	RD14B2E473JT(5)		00D2412402951	1	
! R8003	00MBF68400016	10.68UF/4.7OHM		00MBF68400016	1	
! R8021	00MGG0522016X	22 OHM +- 5% 1/6W		00MGG0522016X	1	
! R8022	00MGG0510016X	10 OHM +- 5% 1/6W		00MGG0510016X	1	
R8023	nsp	RM73B--103JT +1608		00D2472009983	1	
R8024	nsp	RD14B2E103JT(5)		00D2412400995	1	
R8025	nsp	RM73B--333JT +1608		00D2472011900	1	
! R8101,8102	00MGG0504716X	4.7 OHM +- 5% 1/6W		00MGG0504716X	1	
R8103,8104	nsp	RD14B2E471JT(5)		00D2412397972	1	
R8105,8106	nsp	RD14B2E102JT(5)		00D2412398955	1	
! R8107,8108	00MGG0510016X	10 OHM +- 5% 1/6W		00MGG0510016X	1	
R8109,8110	nsp	RD14B2E333JT(5)		00D2412402919	1	
R8111,8112	nsp	RD14B2E153JT(5)		00D2412401936	1	
R8301,8302	nsp	RM73B--472JT (1608) +1608		00D2472009909	1	
R8303	nsp	RM73B--103JT +1608		00D2472009983	1	
R8304	nsp	RM73B--823JT +1608		00D2472012909	1	
R8305	nsp	RM73B--103JT +1608		00D2472009983	1	
R8306	nsp	RM73B--473JT +1608		00D2472011942	1	
R8307	nsp	RM73B--103JT +1608		00D2472009983	1	
R9001	nsp	RD14B2E472JT(5)		00D2412400911	1	
R9002-9004	nsp	RD14B2E103JT(5)		00D2412400995	1	
R9011	nsp	RM73B--104JT +1608		00D2472012925	1	
R9012,9013	nsp	RM73B--223JT +1608		00D2472010969	1	
R9014	nsp	RM73B--472JT (1608) +1608		00D2472009909	1	
R9015	nsp	RM73B--223JT +1608		00D2472010969	1	
R9501,9502	nsp	RM73B--154JT +1608		00D2472012967	1	
R9503,9504	nsp	RM73B--473JT +1608		00D2472011942	1	
R9505-9508	00MGG0547116X	470 OHM +- 5% 1/6W		00MGG0547116X	1	
R9509,9510	nsp	RM73B--154JT +1608		00D2472012967	1	
R9511,9512	00MGG0547216X	4.7K OHM +- 5% 1/6W		00MGG0547216X	1	
R9513,9514	nsp	RM73B--224JT +1608		00D2472013908	1	
R9515,9516	nsp	RD14B2E682JT(5)		00D2412400953	1	
R9517-9522	nsp	RD14B2E223JT(5)		00D2412401978	1	
R9523,9524	nsp	RD14B2E683JT(5)		00D2412402993	1	
R9525	nsp	RM73B--104JT +1608		00D2472012925	1	
! R9901,9902	00MGG0510016X	10 OHM +- 5% 1/6W		00MGG0510016X	1	

CAPACITORS GROUP

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
C2802	nsp	CK73B1H103KT (1608) +1608		00D2570501901	1	
C3000	nsp	CK73F1E104ZT +1608		00D2570512903	1	
C3001-3004	133050086503S	CQ93M2A221JT(PEF)		133050086503S	1	
C3005,3006	nsp	CK73F1E104ZT +1608		00D2570512903	1	
C3008	nsp	CK73F1E104ZT +1608		00D2570512903	1	
C3011,3012	133050086503S	CQ93M2A221JT(PEF)		133050086503S	1	
C3015,3016	133050086503S	CQ93M2A221JT(PEF)		133050086503S	1	
C3017	nsp	CK73F1E104ZT +1608		00D2570512903	1	
C3021,3022	00MOA10605021	10 UF M 50V RA-2		00MOA10605021	1	
C3023,3024	00MOF55331581	330PF 100V +- 10% FNS		00MOF55331581	1	
C3025,3026	00MOA22605021	22 UF M 50V RA-2		00MOA22605021	1	
C3027,3028	00MOA22702521	220 UF M 25V RA-2		00MOA22702521	1	
C3029,3030	00MOA10605021	10 UF M 50V RA-2		00MOA10605021	1	
C3031,3032	00MOF55331581	330PF 100V +- 10% FNS		00MOF55331581	1	
C3033,3034	00MOA22605021	22 UF M 50V RA-2		00MOA22605021	1	
C3035,3036	00MOA22702521	220 UF M 25V RA-2		00MOA22702521	1	
C3037,3038	00MOA22605021	22 UF M 50V RA-2		00MOA22605021	1	
C3041,3042	00MOF55101591	100PF 200V +- 10% FAS		00MOF55101591	1	
C3043-3046	00MOA22702521	220 UF M 25V RA-2		00MOA22702521	1	
C3047,3048	00MOF55101591	100PF 200V +- 10% FAS		00MOF55101591	1	
C3049,3050	00MOA22602521	ROS-25V 220M - F3#PE - T2 (22UF 25V)		00MOA22602521	1	
C3801,3802	00MOA22702521	220 UF M 25V RA-2		00MOA22702521	1	
C3803-3806	00MOA10605021	10 UF M 50V RA-2		00MOA10605021	1	
C3901,3902	00D2544574922	CE04W1H101MT(RA3)		00D2544574922	1	
C3909	133050074500S	CQ93M2E101J(LP)		133050074500S	1	
C3910	13405014840AS	CE04W1J100MT(KR3)		13405014840AS	1	
C3912	13405014840AS	CE04W1J100MT(KR3)		13405014840AS	1	
C3916	00MOA10605021	10 UF M 50V RA-2		00MOA10605021	1	
C6001,6002	00MOA22602521	ROS-25V 220M - F3#PE - T2 (22UF 25V)		00MOA22602521	1	
C6003,6004	00MOF55101591	100PF 200V +- 10% FAS	N,K	00MOF55101591	2	
C6005-6008	00MOA22706326	220 UF M 63V RA-2		00MOA22706326	1	
C6009-6012	00MOA22605021	22 UF M 50V RA-2		00MOA22605021	1	
C6013,6014	00MOF55681581	680PF 100V +-10% FNS		00MOF55681581	1	
C6015,6016	00MOA22702521	220 UF M 25V RA-2		00MOA22702521	1	
C7001,7002	00MOA10603521	ROS-35V 100M - F3#PE - T2 (10UF 35V)		00MOA10603521	1	
C7003,7004	00MOF55103581	0.01UF 100V +- 5% FNS		00MOF55103581	1	
C7005,7006	00MOF55393586	0.039UF 100V +- 5% FAS		00MOF55393586	1	
C8001,8002	1340500010008	15000uF/63V(marantz Original)		1340500010008	1	
C8021	00MOA22706326	220 UF M 63V RA-2		00MOA22706326	1	
C8022	00MOA10605021	10 UF M 50V RA-2		00MOA10605021	1	
C8101-8104	00MOA22702521	220 UF M 25V RA-2		00MOA22702521	1	
C8105,8106	00MOA22605021	22 UF M 50V RA-2		00MOA22605021	1	
C8301	00MOA68801626	6800 UF 16V RA2 TYPE		00MOA68801626	1	
C8302,8303	nsp	CK73F1E104ZT +1608		00D2570512903	1	
C8304	00MOA22702521	220 UF M 25V RA-2		00MOA22702521	1	
C8305,8306	nsp	CK73F1E104ZT +1608		00D2570512903	1	
C8307	00MOA22702521	220 UF M 25V RA-2		00MOA22702521	1	
C8308	nsp	CK73F1E104ZT +1608		00D2570512903	1	
C8309	nsp	CK73B1H103KT (1608) +1608		00D2570501901	1	
C8310	13305030640AS	CQ93P2A103JT(DTN)		13305030640AS	1	Ver.3
C9001	00D2544573949	CE04W1H010MT(RA3)		00D2544573949	1	
C9002	00MOA10605021	10 UF M 50V RA-2		00MOA10605021	1	
C9003	nsp	CK73F1E104ZT +1608		00D2570512903	1	
C9011-9015	nsp	CK73F1E104ZT +1608		00D2570512903	1	
C9016	nsp	CK73B1E104KT +1608		00D2570516954	1	
C9501,9502	nsp	CK73B1H103KT (1608) +1608		00D2570501901	1	
C9503-9506	00D2544573949	CE04W1H010MT(RA3)		00D2544573949	1	
C9507	00D2544577945	CE04W1C101MT(RA3)		00D2544577945	1	
C9901,9902	13305030640AS	CQ93P2A103JT(DTN)	N,K	13305030640AS	2	Ver.3
C9903	nsp	CK73B1E104KT +1608		00D2570516954	1	
C9904	nsp	CK73B1H103KT (1608) +1608		00D2570501901	1	
OTHER PARTS GROUP						
B3301	nsp	9P L=70 EHR-SCN UL1430 AWG26		61205062000AM	1	*
B3802	nsp	EHR-SCN 2.5MMPICH DIP TYPE 4PIN 10CM		120106080080	1	
B6001,6002	nsp	EHR-SCN 2.5MMPICH DIP TYPE 5PIN 8CM		120105920040	1	
B8001	nsp	SIN-SRA 1P 140MM		120500040000	1	
B9501	nsp	EHR-SCN 2.5MMPICH DIP TYPE 4PIN 10CM		120106080080	1	
B9901	nsp	SIN-SRA 1PIN 11CM		612050089005M	1	
! F8300	00MFS20315201	# FUSE 3.15A 250V SEMKO VDE		00MFS20315201	1	
K3001	643810029001S	RCA PIN JACK 2P AU MSP-242V3-12 GILT LF		643810029001S	1	
K3002	643810025009S	RCA PIN JACK 4P NI MSP-244V4-02 NI LF		643810025009S	1	
K3004,3005	643810026002S	RCA PIN JACK 2P NI MSP-242V3-02 NI LF		643810026002S	1	
K9901	00MYJ01005170	JY-6313 01-030 6.4D PHONE JACK		00MYJ01005170	1	
KT810	00MHK185919C0	2SA1859/C4883 O/O OR Y/Y PAIR		00MHK185919C0	1	
L8301	nsp	E-FIL(BLM21PG221SN1)+2125		00D2350147909	1	
L9102	nsp	MLB-1608-1000A-N2		00MFC9002021Y	1	
N2801	nsp	B5B-EH-TS (LF)(SN) 5P RADIAL TAPING		00MYP0601045X	1	
N2802	nsp	B3B-EH-TS (LF)(SN) 3P RADIAL TAPING		00MYP0600383X	1	
N2901	nsp	S3B-EH		00MYP06003930	1	
N5001	nsp	13P PLUG(C125Z1)		645010056014S	1	
N7001,7002	nsp	B5B-EH-TS (LF)(SN) 5P RADIAL TAPING		00MYP0601045X	1	
N7003-7006	nsp	6P PIN HEADDER 2.54MM PITCH ANGLE		64401018300AS	1	
N7007,7008	nsp	S2B-EH		00MYP06003920	1	
N7009	nsp	4P-PLUG B4P-VH		00MYP06003890	1	
N8001	nsp	JST 3P-PLUG B3P-VH P=3.96MM		00MYP06006860	1	
N8101	nsp	B4B-EH-TS (LF)(SN) 4P RADIAL TAPING		00MYP0600391X	1	
N8301	nsp	B3B-EH-TS (LF)(SN) 3P RADIAL TAPING		00MYP0600383X	1	
N9001	nsp	B12B-PH-K-S (LF)(SN)		00MYJ06006320	1	
N9002	nsp	B4B-EH-TS (LF)(SN) 4P RADIAL TAPING		00MYP0600391X	1	
N9901	nsp	S3B-EH		00MYP06003930	1	
S2801,2802	00D2140208003	RELAY(NA24W-K)		00D2140208003	1	
S3001	00D2140208003	RELAY(NA24W-K)		00D2140208003	1	
V6001,6002	00MRA04720781	4.7KOHM NVZ6TLTA B472		00MRA04720781	1	
V7001,7002	00MRA02220761	2.2KOHM NVZ6THT B222		00MRA02220761	1	
Z3902	nsp	STYLE PIN		00D2050452017	1	
Z8101	nsp	SCREW		00M51100308M9	1	
Z8102	nsp	HEAT SINK		00M009D267010	1	
Z8103	nsp	SCREW		00M51100308M9	1	
Z8104	nsp	HEAT SINK		00M009D267010	1	
Z8201	nsp	GND TERMINAL FOR PCB		00MYL01010241	1	
Z8301	nsp	HEAT SINK		00M309V267010	1	
Z8302	nsp	SCREW		00M51100308M9	1	
Z9102	nsp	GND TERMINAL FOR PCB		00MYL01010241	1	
Z9103	nsp	M3 SCREW TERMINAL		00D2051034007	1	
Z9501,9502	252310006513S	PRF18BC4710B5RB		252310006513S	1	

FRONT PCB ASS'Y

※Parts indicated by "nsp"on this table cannot be supplied.

※The parts listed b NOTE: The symbols in the column Remarks indicate the following destinations.

U : North America model N : Europe model K : China model F : Japan model

B : Black model SG : Silver gold model

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
SEMICONDUCTORS GROUP						
D1251-1262	20105001230AS	1SS355T		20105001230AS	1	
D2501-2508	26301000440AS	SELG6E10C-S20 BLUE LED		26301000440AS	1	
D2509,2510	176010009406S	SELK2E14C-D BLUE LED		176010009406S	1	
D2511	263010041403S	SLI-343V8RC(T32)		263010041403S	1	
D2512	176010009406S	SELK2E14C-D BLUE LED		176010009406S	1	
D4501-4508	00MHZ2001805Y	1SS302 (TE85L F) (TOSHIBA)		00MHZ2001805Y	1	
D7501,7502	20105001130AS	1SS133(HOMI)		20105001130AS	1	
! D8501-8504	00MHD20055101	!SHOTTKY 11EQS10 1A 100V		00MHD20055101	1	
D8505,8506	20305002730AS	1N4003(HOMI)		20305002730AS	1	
D8507	00D276068398S	UDZS11B-TE17		00D276068398S	1	
D8508	20105001130AS	1SS133(HOMI)		20105001130AS	1	
! D8509-8512	00MHD20055101	!SHOTTKY 11EQS10 1A 100V		00MHD20055101	1	
D8513-8518	20305002730AS	1N4003(HOMI)		20305002730AS	1	
D8530	00D2760683901	UDZS5.6B-TE17 +C		00D2760683901	1	
Q1251,1252	00D2690184907	KRA102S-RTK/P (10K-10K)		00D2690184907	1	
Q1801	00MHT600141B1	KTAT1271 PNP TRANSISTOR RANK=Y		00MHT600141B1	1	
Q1802	00MHT800951B1	KTC3203 NPN TRANSISTOR RANK=Y		00MHT800951B1	1	
Q1803	00MHT600141B1	KTAT1271 PNP TRANSISTOR RANK=Y		00MHT600141B1	1	
Q1804	00MHT800951B1	KTC3203 NPN TRANSISTOR RANK=Y		00MHT800951B1	1	
Q1805,1806	00D2690192902	KRC102S-RTK/P (10K-10K)		00D2690192902	1	
Q2501-2512	00D2690192902	KRC102S-RTK/P (10K-10K)		00D2690192902	1	
Q2551-2555	00D2690192902	KRC102S-RTK/P (10K-10K)		00D2690192902	1	
Q2601	00D2690184907	KRA102S-RTK/P (10K-10K)		00D2690184907	1	
Q2602	00D2690192902	KRC102S-RTK/P (10K-10K)		00D2690192902	1	
Q2801	00D2690192902	KRC102S-RTK/P (10K-10K)		00D2690192902	1	
Q4501,4502	22255001850AS	2SK2145GR/BL(5LDMH.F)		22255001850AS	1	
Q4503,4504	21305002050AS	2SC6126		21305002050AS	1	
Q4505,4506	21105002140AS	KSA992FTA		21105002140AS	1	
Q4507,4508	21305002440AS	KSC1845FTA		21305002440AS	1	
Q4509,4510	21105002140AS	KSA992FTA		21105002140AS	1	
Q4511,4512	21305002440AS	KSC1845FTA		21305002440AS	1	
Q4513,4514	21105002140AS	KSA992FTA		21105002140AS	1	
Q4515,4516	21305002440AS	KSC1845FTA		21305002440AS	1	
Q4517,4518	21105002140AS	KSA992FTA		21105002140AS	1	
Q4519-4522	21305002440AS	KSC1845FTA		21305002440AS	1	
Q4523,4524	21105002140AS	KSA992FTA		21105002140AS	1	
Q4525-4528	00D2730460905	KTC2875-B-RTK/P		00D2730460905	1	
Q4529	00D2690184907	KRA102S-RTK/P (10K-10K)		00D2690184907	1	
Q4530,4531	00D2690192902	KRC102S-RTK/P (10K-10K)		00D2690192902	1	
Q4801	00D2757001907	FDC608PZ		00D2757001907	1	
Q8501	00D2690192902	KRC102S-RTK/P (10K-10K)		00D2690192902	1	
Q8502	00D2730464901	KTC3875S-GR-RTK/P		00D2730464901	1	
! Q8530	00MHT348832A0	!TRANSISTOR 2SC4883 O OR Y		00MHT348832A0	1	
U2001,2002	23281004150AS	NJM8080G		23281004150AS	1	
U2004	23281004150AS	NJM8080G		23281004150AS	1	
U2551,2552	23481001450AS	MC14094BDTR2G		23481001450AS	1	
U2601	262010010000S	R34ES9A-15MM(36KHZ) IR RECIVER		262010010000S	1	
U4001	00D2630896909	NJM2068MD-TE1 +C		00D2630896909	1	
! U4801	00D2630809006	NJM7805FA(S)		00D2630809006	1	
! U4802	231310009508S	PQ033DNA1ZPH		231310009508S	1	
! U8501	00D2631240907	BA33B00FP-E2		00D2631240907	1	
RESISTOR GROUP						
R1013	nsp	RM73B--104JT +1608		00D2472012925	1	
R1251,1252	nsp	RM73B--124JT +1608		00D2472012941	1	
R1253-1255	nsp	RM73B--103JT +1608		00D2472009983	1	
R1256	nsp	RM73B--472JT (1608) +1608		00D2472009909	1	
R1257	nsp	RM73B--152JT +1608		00D2472007985	1	
R1258	nsp	RM73B--392JT +1608		00D2472008984	1	
R1259,1260	nsp	RM73B--152JT +1608		00D2472007985	1	
R1261	nsp	RM73B--222JT +1608		00D2472008926	1	
R1262	nsp	RM73B--152JT +1608		00D2472007985	1	
R1263	nsp	RM73B--101JT +1608		00D2472005903	1	
R1264	nsp	RM73B--122JT +1608		00D2472007969	1	
R1265	nsp	RM73B--101JT +1608		00D2472005903	1	
R1266,1267	nsp	RM73B--222JT +1608		00D2472008926	1	
R1268,1269	nsp	RM73B--182JT +1608		00D2472008900	1	
R1270	nsp	RM73B--223JT +1608		00D2472010969	1	
R1271	nsp	RM73B--103JT +1608		00D2472009983	1	
R1801,1802	nsp	RM73B--222JT +1608		00D2472008926	1	
R1803,1804	nsp	RM73B--473JT +1608		00D2472011942	1	
R1805	nsp	RM73B--222JT +1608		00D2472008926	1	
R1806	nsp	RM73B--473JT +1608		00D2472011942	1	
R1808	nsp	RM73B--222JT +1608		00D2472008926	1	
R1809	nsp	RM73B--473JT +1608		00D2472011942	1	
R2001,2002	nsp	RD14B2E333JT(5)		00D2412402919	1	
! R2003,2004	00MGG0510016X	! 10 OHM +- 5% 1/6W		00MGG0510016X	1	
R2005,2006	nsp	RD14B2E333JT(5)		00D2412402919	1	
R2007-2010	nsp	RD14B2E272JT(5)		00D2412399954	1	
R2011,2012	nsp	RD14B2E104JT(5)		00D2412403934	1	
R2013,2014	nsp	RD14B2E101JT(5)		00D2412396928	1	
R2015,2016	nsp	RD14B2E122JT(5)		00D2412398971	1	
R2017,2018	nsp	RD14B2E473JT(5)		00D2412402951	1	
R2023,2024	nsp	RD14B2E122JT(5)		00D2412398971	1	
R2025,2026	nsp	RD14B2E563JT(5)		00D2412402977	1	
R2501	nsp	RM73B--103JT +1608		00D2472009983	1	
R2502	nsp	RM73B--331JT (1608) +1608		00D2472006902	1	
R2503	nsp	RM73B--103JT +1608		00D2472009983	1	
R2504	nsp	RM73B--331JT (1608) +1608		00D2472006902	1	
R2505	nsp	RM73B--103JT +1608		00D2472009983	1	
R2506	nsp	RM73B--331JT (1608) +1608		00D2472006902	1	
R2507	nsp	RM73B--103JT +1608		00D2472009983	1	
R2508	nsp	RM73B--331JT (1608) +1608		00D2472006902	1	
R2509	nsp	RM73B--103JT +1608		00D2472009983	1	
R2510	nsp	RM73B--331JT (1608) +1608		00D2472006902	1	
R2511	nsp	RM73B--103JT +1608		00D2472009983	1	
R2512	nsp	RM73B--331JT (1608) +1608		00D2472006902	1	
R2513	nsp	RM73B--103JT +1608		00D2472009983	1	
R2514	nsp	RM73B--331JT (1608) +1608		00D2472006902	1	

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
R2515	nsp	RM73B--103JT +1608		00D2472009983	1	
R2516	nsp	RM73B--331JT (1608) +1608		00D2472006902	1	
R2517	nsp	RM73B--103JT +1608		00D2472009983	1	
R2518	nsp	RM73B--221JT +1608		00D2472005987	1	
R2519	nsp	RM73B--103JT +1608		00D2472009983	1	
R2520	nsp	RM73B--221JT +1608		00D2472005987	1	
R2522	nsp	RM73B--122JT +1608		00D2472007969	1	
R2523	nsp	RM73B--103JT +1608		00D2472009983	1	
R2524	nsp	RM73B--221JT +1608		00D2472005987	1	
R2553-2557	nsp	RM73B--101JT +1608		00D2472005903	1	
R2558-2562	nsp	RM73B--103JT +1608		00D2472009983	1	
R2602	nsp	RD14B2E101JT(5)		00D2412396928	1	
R2701	nsp	RM73B--103JT +1608		00D2472009983	1	
R2702	nsp	RM73B--222JT +1608		00D2472008926	1	
R2703-2705	nsp	RM73B--392JT +1608		00D2472008984	1	
R2706	nsp	RM73B--223JT +1608		00D2472010969	1	
R4001,4002	nsp	RD14B2E682JT(5)	N,K	00D2412400953	2	
R4003-4006	nsp	RD14B2E104JT(5)		00D2412403934	1	
R4007,4008	nsp	RD14B2E330JT(5)	U,F	00D2412395903	2	
R4007,4008	nsp	RD14B2E101JT(5)	N,K	00D2412396928	2	
R4009,4010	nsp	RD14B2E820JT(5)		00D2412396902	1	
R4011,4012	nsp	RD14B2E823JT(5)		00D2412403918	1	
R4013,4014	nsp	RD14B2E682JT(5)		00D2412400953	1	
R4015,4016	nsp	RD14B2E101JT(5)		00D2412396928	1	
R4017,4018	nsp	RD14B2E473JT(5)		00D2412402951	1	
R4019,4020	nsp	RD14B2E101JT(5)		00D2412396928	1	
! R4021,4022	00MGG0510016X	10 OHM +- 5% 1/6W		00MGG0510016X	1	
R4501-4504	nsp	RD14B2E102JT(5)		00D2412398955	1	
R4505-4512	nsp	RD14B2E183JT(5)		00D2412401952	1	
R4513,4514	nsp	RD14B2E103JT(5)		00D2412400995	1	
R4515,4516	nsp	RD14B2E472JT(5)		00D2412400911	1	
R4517,4518	nsp	RD14B2E103JT(5)		00D2412400995	1	
R4519,4520	nsp	RD14B2E472JT(5)		00D2412400911	1	
R4521-4524	nsp	RD14B2E121JT(5)		00D2412396944	1	
R4525,4526	nsp	RD14B2E680JT(5)		00D2412395987	1	
R4527,4528	nsp	RD14B2E561JT(5)		00D2412397998	1	
R4529,4530	nsp	RD14B2E333JT(5)		00D2412402919	1	
R4531,4532	nsp	RD14B2E561JT(5)		00D2412397998	1	
R4533,4534	nsp	RD14B2E101JT(5)		00D2412396928	1	
R4535,4536	nsp	RD14B2E333JT(5)		00D2412402919	1	
R4537-4540	nsp	RD14B2E220JT(5)		00D2412394962	1	
R4541-4544	nsp	RD14B2E471JT(5)		00D2412397972	1	
R4545-4548	nsp	RD14B2E220JT(5)		00D2412394962	1	
R4549,4550	nsp	RD14B2E104JT(5)		00D2412403934	1	
R4551-4554	nsp	RD14B2E101JT(5)		00D2412396928	1	
R4555,4556	nsp	RD14B2E100JT(5)		00D2412393989	1	
R4557-4560	nsp	RM73B--102JT +1608		00D2472007943	1	
! R4561-4564	00MGG0510016X	10 OHM +- 5% 1/6W		00MGG0510016X	1	
R4565-4570	nsp	RD14B2E822JT(5)		00D2412400979	1	
R4801	nsp	RM73B--472JT (1608) +1608		00D2472009909	1	
R4802	nsp	RM73B--103JT +1608		00D2472009983	1	
R4823	nsp	RM73B--472JT (1608) +1608		00D2472009909	1	
! R7501,7502	00MGG0510016X	10 OHM +- 5% 1/6W		00MGG0510016X	1	
R7503,7504	00MKN05331020	330 OHM +- 5% 2W		00MKN05331020	1	
! R8501	00MGG0522016X	22 OHM +- 5% 1/6W		00MGG0522016X	1	
R8502	nsp	RM73B--823JT +1608		00D2472012909	1	
R8503,8504	nsp	RM73B--472JT (1608) +1608		00D2472009909	1	
! R8505	00MBF68400016	! 0.68UF/4.7OHM		00MBF68400016	1	
! R8506,8507	00MGG05010120	ERD50FJ1R0P or SPRX1CM12.5A J 1R0		00MGG05010120	1	
R8508	nsp	RM73B--104JT +1608		00D2472012925	1	
R8509	nsp	RM73B--470JT +1608		00D2472004920	1	
R8510	nsp	RM73B--223JT +1608		00D2472010969	1	
R8511	nsp	RM73B--822JT +1608		00D2472009967	1	
R8512	nsp	RM73B--333JT +1608		00D2472011900	1	
R8513	nsp	RM73B--563JT +1608		00D2472011968	1	
R8530	nsp	RM73B--822JT +1608		00D2472009967	1	
! R8531	00MGG0510016X	10 OHM +- 5% 1/6W		00MGG0510016X	1	
CAPACITORS GROUP						
C1251	nsp	CK73B1H103KT (1608) +1608		00D2570501901	1	
C1801,1802	00D2544573949	CE04W1H010MT(RA3)		00D2544573949	1	
C1803	nsp	CK73B1H103KT (1608) +1608		00D2570501901	1	
C2001,2002	00MOA22605021	22 UF M 50V RA-2		00MOA22605021	1	
C2003-2006	133050086503S	CQ93M2A221JT(PEF)		133050086503S	1	
C2007,2008	00MOA22605021	22 UF M 50V RA-2		00MOA22605021	1	
C2009,2010	00MOA10702521	100 UF M 25V RA-2		00MOA10702521	1	
C2011,2012	13305030640AS	CQ93P2A103JT(DTN)		13305030640AS	1	Ver.3
C2013,2014	133050086503S	CQ93M2A221JT(PEF)		133050086503S	1	
C2019,2020	00MEJ22505011	2.2UF/ 50V		00MEJ22505011	1	
C2021,2022	13305030646AS	CQ93P2A683JT(DTN)		13305030646AS	1	Ver.3
C2029	nsp	CK73B1H103KT (1608) +1608		00D2570501901	1	
C2030	nsp	CK73F1E104ZT +1608		00D2570512903	1	
C2501-2511	nsp	CK73B1H103KT (1608) +1608		00D2570501901	1	
C2551	00MEJ10602511	10UF/ 25V		00MEJ10602511	1	
C2552,2553	nsp	CK73F1E104ZT +1608		00D2570512903	1	
C2554,2555	nsp	CK73B1H102KT +1608		00D2570509929	1	
C2557	nsp	CK73B1H102KT +1608		00D2570509929	1	
C2559	00MEJ10602511	10UF/ 25V		00MEJ10602511	1	
C2602	nsp	CK73B1H103KT (1608) +1608		00D2570501901	1	
C2603	00D2544302974	CE04W1A101MT(SRE)		00D2544302974	1	
C2701	00MEJ10602511	10UF/ 25V		00MEJ10602511	1	
C2702	nsp	CK73B1H103KT (1608) +1608		00D2570501901	1	
C4000	nsp	CK73F1E104ZT +1608		00D2570512903	1	
C4001,4002	00MOF55221591	220PF 200V +- 10% FAS	N,K	00MOF55221591	2	
C4003,4004	00MOF55221591	220PF 200V +- 10% FAS		00MOF55221591	1	
C4005,4006	00MOA10605021	10 UF M 50V RA-2		00MOA10605021	1	
C4007,4008	00D2544577974	CE04W1C471MT(RA3)		00D2544577974	1	
C4009,4010	133050088516S	CQ93M2A393JT(PEF)		133050088516S	1	
C4011,4012	13305030543AS	CQ93P2A102JT(DTN)		13305030543AS	1	Ver.3
C4013,4014	13305030640AS	CQ93P2A103JT(DTN)		13305030640AS	1	Ver.3
C4015,4016	00MOA10605021	10 UF M 50V RA-2		00MOA10605021	1	
C4019,4020	00MOA22702521	220 UF M 25V RA-2		00MOA22702521	1	
C4501,4502	133050125408S	CQ93E2A561JT(FNS)		133050125408S	1	
C4503-4506	133050125415S	CQ93E2A821JT(FNS)		133050125415S	1	
C4507-4510	133050079420S	CQ93G2D181J(FAS)		133050079420S	1	
C4511,4512	00MOF55221591	220PF 200V +- 10% FAS		00MOF55221591	1	
C4515,4516	00MOA10605021	10 UF M 50V RA-2		00MOA10605021	1	

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
C4517	nsp	CK73F1E104ZT +1608		00D2570512903	1	
C4519-4522	00MOA22702521	220 UF M 25V RA-2		00MOA22702521	1	
C4801	00MOA10702521	100 UF M 25V RA-2		00MOA10702521	1	
C4802,4803	nsp	CK73F1E104ZT +1608		00D2570512903	1	
C4804	00MOA22605021	22 UF M 50V RA-2		00MOA22605021	1	
C4805	00MOA10702521	100 UF M 25V RA-2		00MOA10702521	1	
C4806,4807	nsp	CK73F1E104ZT +1608		00D2570512903	1	
C4808	00MOA22605021	22 UF M 50V RA-2		00MOA22605021	1	
C4809	nsp	CK73B1H103KT (1608) +1608		00D2570501901	1	
C4810	00MOA10605021	10 UF M 50V RA-2		00MOA10605021	1	
C5902	nsp	CK73B1H103KT (1608) +1608		00D2570501901	1	
C7501,7502	00MOF55103581	0.01UF 100V +- 5% FNS	N,K	00MOF55103581	2	
C7513,7514	00MOF55102581	1000PF 100V FNS		00MOF55102581	1	
C7515,7516	nsp	CK73B1H102KT +1608		00D2570509929	1	
C8501	13305030640AS	CQ93P2A103JT(DTN)		13305030640AS	1	Ver.3
! C8502	133750061200S	#PHE840MA5100MA01R05		133750061200S	1	
C8503	00D2544573949	CE04W1H010MT(RA3)		00D2544573949	1	
C8504	nsp	CK73B1H103KT (1608) +1608		00D2570501901	1	
C8505,8506	134050109201S	RA2-35V332MK8#8-S1		134050109201S	1	
C8507	13405013120AS	CE04W1E222MC(KR3)		13405013120AS	1	
C8508	nsp	CK73B1H102KT +1608		00D2570509929	1	
C8509	00MOA22706326	220 UF M 63V RA-2		00MOA22706326	1	
C8510,8511	nsp	CK73F1E104ZT +1608		00D2570512903	1	
C8514	nsp	CK73F1E104ZT +1608		00D2570512903	1	
C8515	00MOA47602521	47 UF M 25V RA-2		00MOA47602521	1	
C8516	00D2544573949	CE04W1H010MT(RA3)		00D2544573949	1	
C8518-8520	nsp	CK73F1E104ZT +1608		00D2570512903	1	
C8521	13405012840AS	CE04W1A101MT(KR3)		13405012840AS	1	
C8522	nsp	CK73F1E104ZT +1608		00D2570512903	1	
C8523	13405012440AS	CE04W0J221MT(KR3)		13405012440AS	1	
C8530	00MOA47602521	47 UF M 25V RA-2		00MOA47602521	1	
! C8901	00D2538029713	CK45F2EAC471KC(KX)		00D2538029713	1	
OTHER PARTS GROUP						
B1201	nsp	EHR-SCN 2.5MMPICH DIP TYPE 4PIN 10CM		120106080080	1	
B1801	nsp	EHR-SCN 2.5MMPICH DIP TYPE 3PIN 10CM		120106230070	1	
B2003	nsp	EHR-SCN 3P 150MM(SHIELD WIRE)		120500030070	1	
B2004	nsp	EHR-SCN 5PIN 17CM		612050088002M	1	
B2801	nsp	EHR-SCN 2.5MMPICH DIP TYPE 3PIN 10CM		120106230070	1	
B4501	nsp	M3 SCREW TERMINAL		00D2051034007	1	
! F8520	0520100180090	021806.3MXP (FUSE 6.3A 250V)	U,F	520100180090	1	
! F8520	0520100150000	02183.15MXP	N,K	520100150000	1	
H8521,8522	nsp	FUSE CLIP(TAPE)		00D2020040909	1	
K4001	643810029001S	RCA PIN JACK 2P AU MSP-242V3-12 GILT LF		643810029001S	1	
K8502	643010103006S	RCA PIN JACK 2P NI MSP-242V1-24		643010103006S	1	
L4001,4002	00MLC13240010	320 MH CHOKE COIL (TOROIDAL)	N,K	00MLC13240010	2	
L8501-8504	nsp	MLB-1608-1000A-N2		00MFC9002021Y	1	
N1002	nsp	S4B-EH		00MYP06003940	1	
N2501	nsp	B14B-PH-K-S (LF)(SN)		00MYJ06006340	1	
N4001	nsp	B9B-EH-9P		00MYP06011710	1	
N4002	nsp	B10B-PH-K-S (LF)(SN)		00MYJ06006300	1	
N5901	nsp	B3B-EH-TS (LF)(SN) 3P RADIAL TAPING		00MYP0600383X	1	
N5902	nsp	13P SOCKET(C125Z2)		645010057017S	1	
N7501	nsp	4P-PLUG B4P-VH		00MYP06003890	1	
N7502,7503	nsp	B3B-EH-TS (LF)(SN) 3P RADIAL TAPING		00MYP0600383X	1	
! N8501,8502	nsp	CONNECTOR 2P B3P-VH		00MYP04000760	1	
N8503	nsp	B4B-EH-TS (LF)(SN) 4P RADIAL TAPING		00MYP0600391X	1	
N8504	nsp	JST 3P-PLUG B3P-VH P=3.96MM		00MYP06006860	1	
! N8505	nsp	CONNECTOR 2P B3P-VH		00MYP04000760	1	
N8507	nsp	B8B-PH-K-S (LF)(SN)		00MYJ06006280	1	
N8901	nsp	2P PLUG B2P3S-VH		00MYP06013300	1	
S1251	00D2120407002	ROTALY SW.(SRRM-12)		00D2120407002	1	
S2701-2704	66201000830AS	TACT SW		66201000830AS	1	
S7501	00D2140209002	RELAY FTR-F1AD024V		00D2140209002	1	
S7503	00D2140208003	RELAY(NA24W-K)		00D2140208003	1	
! S8501	00D2140241002	RELAY DL1SU TV-8		00D2140241002	1	
! S8901	66105000300AS	POWER SWITCH (TV-5)		66105000300AS	1	
! T8501	10101014400AM	SUB TRANS (U) A363	U	10101014400AM	1	
! T8501	10101014200AM	SUB TRANS (N) A363	N,K	10101014200AM	1	
! T8501	10101014300AM	SUB TRANS (F) A363	F	10101014300AM	1	
V2001	0750100020070	4K14K124003J		0750100020070	1	2
V2003	0750100020070	4K14K124003J		0750100020070	1	2
V2004	0750100030000	RK14K1240D0P		0750100030000	1	2
V5901	0753100010018	RK16812MG		753100010018	1	
Z5902	00M320J104010	RETAINER		00M320J104010	1	
Z7501,7502	00M04A1123010	SPK CONTACTOR		00M04A1123010	1	
Z7503	nsp	GND TERMINAL FOR PCB		00MYL01010241	1	
Z7505,7506	00M04A1123010	SPK CONTACTOR		00M04A1123010	1	
Z7509-7511	nsp	STYLE PIN		00D2050452017	1	
Z8501	nsp	HEAT SINK		00M09D267010	1	
Z8502	nsp	SCREW		00M51100308M9	1	
Z8504	nsp	GND TERMINAL FOR PCB		00MYL01010241	1	
Z8505	nsp	STYLE PIN		00D2050452017	1	

DIGITAL PCB ASS'Y

※Parts indicated by "nsp"on this table cannot be supplied.

※The parts listed b NOTE:The symbols in the column Remarks indicate the following destinations.

U : North America model N : Europe model K : China model F : Japan model

B : Black model SG : Silver gold model

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
SEMICONDUCTORS GROUP						
D0103,0104	20105001230AS	1SS355T		20105001230AS	1	
D0301,0302	20105001230AS	1SS355T		20105001230AS	1	
D0400-0402	251310004507S	CG0603MLC-12LE		251310004507S	1	
D0701-0705	20105001230AS	1SS355T		20105001230AS	1	
D0800-0802	20105001230AS	1SS355T		20105001230AS	1	
Q0101	00D2730464901	KTC3875S-GR-RTK/P		00D2730464901	1	
Q0103	00D2730464901	KTC3875S-GR-RTK/P		00D2730464901	1	
Q0104	00D2690184907	KRA102S-RTK/P (10K-10K)		00D2690184907	1	
Q0105	00D2690192902	KRC102S-RTK/P (10K-10K)		00D2690192902	1	
Q0106	00D2690184907	KRA102S-RTK/P (10K-10K)		00D2690184907	1	
Q0107	00D2730464901	KTC3875S-GR-RTK/P		00D2730464901	1	
Q0108	00D2690192902	KRC102S-RTK/P (10K-10K)		00D2690192902	1	
Q0109-0111	00D2690184907	KRA102S-RTK/P (10K-10K)		00D2690184907	1	
Q0112	00D2690192902	KRC102S-RTK/P (10K-10K)		00D2690192902	1	
Q0113	00D2690184907	KRA102S-RTK/P (10K-10K)		00D2690184907	1	
Q0114,0115	00D2690192902	KRC102S-RTK/P (10K-10K)		00D2690192902	1	
Q0116	00D2710312905	KTA1504S-GR-RTK/P		00D2710312905	1	
Q0117	00D2690184907	KRA102S-RTK/P (10K-10K)		00D2690184907	1	
Q0118	00D2690192902	KRC102S-RTK/P (10K-10K)		00D2690192902	1	
Q0301	00D2690192902	KRC102S-RTK/P (10K-10K)		00D2690192902	1	
Q0400,0401	00D2690192902	KRC102S-RTK/P (10K-10K)		00D2690192902	1	
Q0403	00D2690184907	KRA102S-RTK/P (10K-10K)		00D2690184907	1	
Q0700	00D2690192902	KRC102S-RTK/P (10K-10K)		00D2690192902	1	
Q0701	00D2757001907	FDC608PZ		00D2757001907	1	
Q0703	00D2690184907	KRA102S-RTK/P (10K-10K)		00D2690184907	1	
Q0704-0706	00D2690192902	KRC102S-RTK/P (10K-10K)		00D2690192902	1	
U0101	00D2623639005	M3062LFGPGP		00D2623639005	1	
U0102	00D2623082924	BD4730G-TR		00D2623082924	1	
U0103	00D2623483905	BR93L66F-W		00D2623483905	1	
U0301	00MHC008005KY	TC7WHU04FU TRIPLE INVERTER		00MHC008005KY	1	
U0302	23681014050AS	PCM9211		23681014050AS	1	
U0303	00MHC008005KY	TC7WHU04FU TRIPLE INVERTER		00MHC008005KY	1	
U0304	62201000200AS	JSR2124		62201000200AS	1	
U0305	14181008150AS	NZ2520S(24.576MHz)		14181008150AS	1	
U0306	14181007650AS	NZ2520SD(22.5792MHz)		14181007650AS	1	
U0307,0308	00MHC011805KZ	TC74LCX157FT(EL.K)		00MHC011805KZ	1	
U0309	00MHC1002088Z	CS4398-CZZR/D		00MHC1002088Z	1	
U0400	24581003360AS	TMS320C6748BZWT3		24581003360AS	1	
U0401		MX25L4006EM11-12G			1	
U0401	9R2481025400M	SA8005 USB-B ROM SUB ASSY		8R2481025400M	1	
U0402-0404	23981009450AS	ADuM1285CRZ (ISOLATOR)		23981009450AS	1	
! U0700	231810090509S	PQ018ENA1ZPH		231810090509S	1	
! U0701	231810071508S	PQ012ENB1ZPH		231810071508S	1	
U0800	-	EPM240T100C5N		-	1	
U0800	24881024460AS	EPM240T100C5N (SA14S1)		00D2623590005	1	
U0801	23681011850AS	CS2000-CP		23681011850AS	1	
U0804,0805	00MHC008005KY	TC7WHU04FU TRIPLE INVERTER		00MHC008005KY	1	
RESISTOR GROUP						
R0101	nsp	RM73B--103JT +1608		00D2472009983	1	
R0102	nsp	RM73B--332JT +1608		00D2472008968	1	
R0103	nsp	RM73B--103JT +1608		00D2472009983	1	
R0104	nsp	RM73B--104JT		00D2473013923	1	
R0105	nsp	RM73B--473JT +1608		00D2472011942	1	
R0106	nsp	RM73B--103JT +1608		00D2472009983	1	
R0107	nsp	RM73B--473JT +1608		00D2472011942	1	
R0108	nsp	RM73B--0R0KT +1608		00D2472018903	1	
R0109	nsp	RM73B--330JT +1005		00D2473004987	1	
R0110	nsp	RM73B--104JT		00D2473013923	1	
R0111,0112	nsp	RM73B--0R0KT +1608		00D2472018903	1	
R0113	nsp	RM73B--101JT +1608		00D2472005903	1	
R0114	nsp	RM73B--333JT +1608		00D2472011900	1	
R0115-0117	nsp	RM73B--560JT		00D2473005944	1	
R0118	nsp	RM73B--183JT +1608		00D2472010943	1	
R0119	nsp	RM73B--473JT +1608		00D2472011942	1	
R0121	nsp	RM73B--101JT +1608		00D2472005903	1	
R0122	nsp	RM73B--560JT		00D2473005944	1	
R0123	nsp	RM73B--221JT +1005		00D2473006985	1	
R0124	nsp	RM73B--560JT		00D2473005944	1	
R0125	nsp	RM73B--104JT		00D2473013923	1	
R0126	nsp	RM73B--560JT		00D2473005944	1	
R0127	nsp	RM73B--104JT		00D2473013923	1	
R0128,0129	nsp	RM73B--103JT +1005		00D2473010984	1	
R0130	nsp	RM73B--104JT		00D2473013923	1	
R0132,0133	nsp	RM73B--103JT +1005		00D2473010984	1	
R0134,0135	nsp	RM73B--220JT +1005		00D2473004945	1	
R0136	nsp	RM73B--0R0KT +1005		00D2473001906	1	
R0137,0138	nsp	RM73B--101JT +1608		00D2472005903	1	
R0139	nsp	RM73B--103JT +1005		00D2473010984	1	
R0140	nsp	RM73B--104JT		00D2473013923	1	
R0142	nsp	RM73B--104JT		00D2473013923	1	
R0143-0145	nsp	RM73B--473JT +1005		00D2473012940	1	
R0146,0147	nsp	RM73B--103JT +1005		00D2473010984	1	
R0148	nsp	RM73B--104JT		00D2473013923	1	
R0149,0150	nsp	RM73B--473JT +1608		00D2472011942	1	
R0151	nsp	RM73B--223JT +1608		00D2472010969	1	
R0152	nsp	RM73B--473JT +1608		00D2472011942	1	
R0153	nsp	RM73B--103JT +1005		00D2473010984	1	
R0154	nsp	RM73B--0R0KT +1005		00D2473001906	1	
R0155-0159	nsp	RM73B--103JT +1608		00D2472009983	1	
R0160	nsp	RM73B--472JT (1608) +1608		00D2472009909	1	
R0161-0163	nsp	RM73B--0R0KT +1005		00D2473001906	1	
R0164	nsp	RM73B--473JT +1608		00D2472011942	1	
R0165	nsp	RM73B--105JT +1608		00D2472014965	1	
R0166	nsp	RM73B--102JT +1608	N	00D2472007943	1	
R0167	nsp	RM73B--473JT +1608		00D2472011942	1	
R0168-0170	nsp	RM73B--104JT		00D2473013923	1	
R0171	nsp	RM73B--0R0KT +1608		00D2472018903	1	
R0174	nsp	RM73B--0R0KT +1608		00D2472018903	1	

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
R0175	nsp	RM73B--103JT +1608		00D2472009983	1	
R0177	nsp	RM73B--103JT +1608		00D2472009983	1	
R0179	nsp	RM73B--103JT +1608		00D2472009983	1	
R0301,0302	nsp	RM73B--560JT +1608		00D2472004946	1	
R0303	nsp	RM73B--101JT +1608		00D2472005903	1	
R0304-0306	nsp	RM73B--0R0KT +1608		00D2472018903	1	
R0307	nsp	RM73B--681JT +1608		00D2472007901	1	
R0308	nsp	RM73B--102JT +1608		00D2472007943	1	
R0309,0310	nsp	RM73B--0R0KT +1608		00D2472018903	1	
R0311-0313	nsp	RM73B--560JT +1608		00D2472004946	1	
R0314	nsp	RM73B--103JT +1608		00D2472009983	1	
R0315	nsp	RM73B--101JT +1608		00D2472005903	1	
R0316	nsp	RM73B--0R0KT +1608		00D2472018903	1	
R0317,0318	nsp	RM73B--101JT +1608		00D2472005903	1	
R0319-0322	nsp	RM73B--560JT +1608		00D2472004946	1	
R0323	nsp	RM73B--0R0KT+1005		00D2473001906	1	
R0324	nsp	RM73B--473JT+1005		00D2473012940	1	
R0325	nsp	RM73B--0R0KT+1005		00D2473001906	1	
R0326	nsp	RM73B--102JT		00D2473008941	1	
R0327	nsp	RM73B--334JT +1005		00D2473014948	1	
R0328	nsp	RM73B--473JT+1005		00D2473012940	1	
R0329	nsp	RM73B--471JT		00D2473007968	1	
R0330	nsp	RM73B--0R0KT+1005		00D2473001906	1	
R0331	nsp	RM73B--750JT +1608		00D2472004975	1	
R0341	nsp	RM73B--0R0KT +1608		00D2472018903	1	
R0343	nsp	RM73B--0R0KT +1608		00D2472018903	1	
R0345,0346	nsp	RM73B--103JT +1608		00D2472009983	1	
R0347	nsp	RM73B--101JT +1608		00D2472005903	1	
R0349-0352	nsp	RM73B--101JT +1608		00D2472005903	1	
R0355,0356	nsp	RM73B--680JT +1608		00D2472004962	1	
R0357	nsp	RM73B--103JT +1608		00D2472009983	1	
R0358-0361	nsp	RM73B--0R0KT +1608		00D2472018903	1	
R0362,0363	nsp	RM73B--560JT +1608		00D2472004946	1	
R0364	nsp	RM73B--0R0KT +1608		00D2472018903	1	
R0365	nsp	RM73B--560JT +1608		00D2472004946	1	
R0366	nsp	RM73B--0R0KT +1608		00D2472018903	1	
R0370	nsp	RM73B--0R0KT +1608		00D2472018903	1	
R0371-0373	nsp	RM73B--560JT +1608		00D2472004946	1	
R0374	nsp	RM73B--0R0KT +1608		00D2472018903	1	
R0376	nsp	RM73B--0R0KT +1608		00D2472018903	1	
R0403-0405	nsp	RM73B--330JT +1608		00D2472003989	1	
R0406	nsp	RM73B--0R0KT +1608		00D2472018903	1	
R0407	nsp	RM73B--330JT +1608		00D2472003989	1	
R0409,0410	nsp	RM73B--102JT +1608		00D2472007943	1	
R0412	nsp	RM73B--102JT +1608		00D2472007943	1	
R0413	nsp	RM73B--332JT		00D2473009966	1	
R0415	nsp	RM73B--330JT +1608		00D2472003989	1	
R0417	nsp	RM73B--102JT +1608		00D2472007943	1	
R0418	nsp	RM73B--332JT		00D2473009966	1	
R0419	nsp	RM73B--102JT +1608		00D2472007943	1	
R0421	nsp	RM73B--103JT +1005		00D2473010984	1	
R0422	nsp	RM73B--472JT+1005		00D2473010900	1	
R0424,0425	nsp	RM73B--0R0KT +1608		00D2472018903	1	
R0428-0434	nsp	RM73B--472JT+1005		00D2473010900	1	
R0435	nsp	RM73B--103JT +1005		00D2473010984	1	
R0436	nsp	RM73B--472JT+1005		00D2473010900	1	
R0437	nsp	RM73B--330JT +1005		00D2473004987	1	
R0438	nsp	RM73B--102JT		00D2473008941	1	
R0439,0440	nsp	RM73B--330JT +1005		00D2473004987	1	
R0444	nsp	RM73B--103JT +1005		00D2473010984	1	
R0445-0454	nsp	RM73B--560JT +1608		00D2472004946	1	
R0455	nsp	MNR04=102(1005X4)		126210005599S	1	
R0460-0467	nsp	RM73B--0R0KT +1608		00D2472018903	1	
R0468-0475	nsp	RM73B--0R0KT+1005		00D2473001906	1	
R0480-0487	nsp	RM73B--0R0KT +1608		00D2472018903	1	
R0490-0495	nsp	RM73B--560JT		00D2473005944	1	
R0496,0497	nsp	RM73B--101JT +1608		00D2472005903	1	
R0700,0701	nsp	RM73B--103JT +1608		00D2472009983	1	
R0702	nsp	RM73B--472JT (1608) +1608		00D2472009909	1	
R0703-0710	nsp	RM73B--0R0KT +1608		00D2472018903	1	
R0711	nsp	RM73B--102JT +1608		00D2472007943	1	
R0713,0714	nsp	RM73B--103JT +1608		00D2472009983	1	
R0807-0810	nsp	RM73B--0R0KT+1005		00D2473001906	1	
R0811,0812	nsp	RM73B--103JT +1005		00D2473010984	1	
R0813	nsp	RM73B--102JT		00D2473008941	1	
R0822-0827	nsp	RM73B--470JT +1005		00D2473005928	1	
R0828	nsp	RM73B--0R0KT+1005		00D2473001906	1	
R0829	nsp	RM73B--103JT +1005		00D2473010984	1	
R0830	nsp	RM73B--0R0KT+1005		00D2473001906	1	
R0834	nsp	RM73B--0R0KT+1005		00D2473001906	1	
R0836-0840	nsp	RM73B--0R0KT+1005		00D2473001906	1	
R0842	nsp	RM73B--0R0KT+1005		00D2473001906	1	
R0843	nsp	RM73B--560JT		00D2473005944	1	
R0844-0849	nsp	RM73B--0R0KT+1005		00D2473001906	1	
R0850	nsp	RM73B--560JT		00D2473005944	1	
R0851,0852	nsp	RM73B--0R0KT+1005		00D2473001906	1	
R0854	nsp	RM73B--0R0KT+1005		00D2473001906	1	
R0855	nsp	RM73B--103JT +1005		00D2473010984	1	
R0858,0859	nsp	RM73B--0R0KT+1005		00D2473001906	1	
R0860	nsp	RM73B--560JT		00D2473005944	1	
R0864	nsp	RM73B--0R0KT+1005		00D2473001906	1	
R0866-0878	nsp	RM73B--0R0KT+1005		00D2473001906	1	
R0880	nsp	RM73B--103JT +1608		00D2472009983	1	
R0881	nsp	RM73B--220JT+1005		00D2473004945	1	
R0883,0884	nsp	RM73B--472JT (1608) +1608		00D2472009909	1	
R0893	nsp	RM73B--0R0KT +1608		00D2472018903	1	
R0897	nsp	RM73B--560JT		00D2473005944	1	
R0900	nsp	RM73B--560JT		00D2473005944	1	
R0901	nsp	RM73B--0R0KT +1608		00D2472018903	1	
R0903	nsp	RM73B--560JT +1608		00D2472004946	1	
R0904	nsp	RM73B--101JT +1608		00D2472005903	1	
R0906	nsp	RM73B--560JT		00D2473005944	1	
R0910	nsp	RM73B--101JT +1608		00D2472005903	1	
R0911	nsp	RM73B--560JT +1608		00D2472004946	1	
R0912	nsp	RM73B--103JT +1608		00D2472009983	1	
R0927	nsp	RM73B--0R0KT +1608		00D2472018903	1	

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
R0934	nsp	RM73B--0R0KT +1608		00D2472018903	1	
R0935	nsp	RM73B--0R0KT+1005		00D2473001906	1	
R0937-0956	nsp	RM73B--103JT +1005		00D2473010984	1	
CAPACITORS GROUP						
C0101-0105	nsp	CK73F1C1042T +1005		00D2575009974	1	
C0106	nsp	CC73CH1H101JT +1005		00D2575004966	1	
C0107,0108	nsp	CK73B1H102KT +1005		00D2575006993	1	
C0109	00D2544657904	CE67C1C100MT(RV2)		00D2544657904	1	
C0110-0117	nsp	CK73F1C1042T +1005		00D2575009974	1	
C0118	nsp	CC73CH1H101JT +1005		00D2575004966	1	
C0119	nsp	CK73B1H102KT +1005		00D2575006993	1	
C0120	nsp	CK73F1C1042T +1005		00D2575009974	1	
C0121	00D2544657904	CE67C1C100MT(RV2)		00D2544657904	1	
C0122	nsp	CK73B0J475KT +1608		00D2570522906	1	
C0123	nsp	CK73F1C1042T +1005		00D2575009974	1	
C0124	nsp	CK73B0J475KT +1608		00D2570522906	1	
C0125	00D2574011905	CE67C0J101MT (RV2) +REF		00D2574011905	1	
C0126	nsp	CK73B1H102KT +1005		00D2575006993	1	
C0127	nsp	CK73F1C1042T +1005		00D2575009974	1	
C0128	00D2574011905	CE67C0J101MT (RV2) +REF		00D2574011905	1	
C0129,0130	nsp	CK73B0J475KT +1608		00D2570522906	1	
C0131-0133	nsp	CK73F1C1042T +1005		00D2575009974	1	
C0135,0136	nsp	CK73F1C1042T +1005		00D2575009974	1	
C0137	00D2574011905	CE67C0J101MT (RV2) +REF		00D2574011905	1	
C0138,0139	nsp	CK73B1H102KT +1005		00D2575006993	1	
C0140	nsp	CK73F1C1042T +1005		00D2575009974	1	
C0141	00D2574011905	CE67C0J101MT (RV2) +REF		00D2574011905	1	
C0142	nsp	CK73F1C1042T +1005		00D2575009974	1	
C0143	00D2544657904	CE67C1C100MT(RV2)		00D2544657904	1	
C0144	nsp	CK73B1H102KT +1005		00D2575006993	1	
C0145,0146	nsp	CK73F1C1042T +1005		00D2575009974	1	
C0147	nsp	CK73B1H102KT +1005		00D2575006993	1	
C0148	nsp	CK73F1H1032T +1005		00D2575009929	1	
C0301	nsp	CK73F1C1042T +1005		00D2575009974	1	
C0302	nsp	CK73F1H1032T +1005		00D2575009929	1	
C0303	nsp	CK73B1H102KT +1005		00D2575006993	1	
C0304	nsp	CK73F1C1042T +1005		00D2575009974	1	
C0305	00D2574012933	CE67C1C101MT (RV2) +REF		00D2574012933	1	
C0306	nsp	CK73B1E683KT(1608) +1608		00D2570518907	1	
C0307	nsp	CK73B1H472KT +1608		00D2570510934	1	
C0308	00D2544645903	CE67C0J221MT(MVA) +REF		00D2544645903	1	
C0309-0312	nsp	CK73F1C1042T +1005		00D2575009974	1	
C0313	00MEY107006BY	PVO-6V101MF60S-R2 (100UF 6.3V ESR=50)		00MEY107006BY	1	
C0314-0317	nsp	CC73CH1H101JT +1608		00D2570506951	1	
C0318	nsp	CK73B1H102KT +1005		00D2575006993	1	
C0319	nsp	CK73F1C1042T +1005		00D2575009974	1	
C0320,0321	nsp	CK73B1H103KT (1608) +1608		00D2570501901	1	
C0322	00D2544657904	CE67C1C100MT(RV2)		00D2544657904	1	
C0323	nsp	CK73F1C1042T +1005		00D2575009974	1	
C0324	nsp	CC73CH1H470JT +1608		00D2570504982	1	
C0325	nsp	CK73B1H102KT +1005		00D2575006993	1	
C0326	nsp	CK73F1H1032T +1005		00D2575009929	1	
C0327	nsp	CK73F1C1042T +1005		00D2575009974	1	
C0328	nsp	C1608X7R1H104K		00MDK9610430Y	1	
C0329	nsp	CK73F1H1032T +1005		00D2575009929	1	
C0330	nsp	CK73B1H102KT +1005		00D2575006993	1	
C0331	nsp	CK73F1C1042T +1005		00D2575009974	1	
C0332	nsp	CK73B1H102KT +1005		00D2575006993	1	
C0333	nsp	CK73F1H1032T +1005		00D2575009929	1	
C0334	nsp	CK73F1C1042T +1005		00D2575009974	1	
C0335,0336	nsp	C1608X7R1H104K		00MDK9610430Y	1	
C0337	nsp	CC73CH1H103JT +2125		00D2570041924	1	
C0338,0339	nsp	C1608X7R1H104K		00MDK9610430Y	1	
C0344	nsp	CK73B1H102KT +1608		00D2570509929	1	
C0346	nsp	CC73CH1H101JT +1608		00D2570506951	1	
C0348	nsp	CK73B1H102KT +1608		00D2570509929	1	
C0349	nsp	CC73CH1H101JT +1608		00D2570506951	1	
C0350	nsp	RM73B--0R0KT +1608		00D2472018903	1	
C0352	nsp	RM73B--0R0KT +1608		00D2472018903	1	
C0354	nsp	RM73B--0R0KT +1608		00D2472018903	1	
C0359,0360	nsp	CC73CH1H101JT +1608		00D2570506951	1	
C0361	00D2574012933	CE67C1C101MT (RV2) +REF		00D2574012933	1	
C0362,0363	nsp	CC73CH1H101JT +1608		00D2570506951	1	
C0364-0366	nsp	C1608X7R1H104K		00MDK9610430Y	1	
C0367	00D2544657904	CE67C1C100MT(RV2)		00D2544657904	1	
C0368,0369	nsp	C1608X7R1H104K		00MDK9610430Y	1	
C0370	00D2574012933	CE67C1C101MT (RV2) +REF		00D2574012933	1	
C0371	nsp	C1608X7R1H104K		00MDK9610430Y	1	
C0372	00D2544577945	CE04W1C101MT(RA3)		00D2544577945	1	
C0373	00D2544657920	CE67C1C330MT (RV2)		00D2544657920	1	
C0400	nsp	CC73CH1H101JT +1608		00D2570506951	1	
C0401-0404	nsp	CK73F1C1042T +1005		00D2575009974	1	
C0405	nsp	CK73B1H102KT +1005		00D2575006993	1	
C0406-0409	nsp	CK73F1C1042T +1005		00D2575009974	1	
C0410-0412	nsp	CK73B1H102KT +1005		00D2575006993	1	
C0413	nsp	CC73CH1H101JT +1608		00D2570506951	1	
C0414	nsp	CK73B1H102KT +1005		00D2575006993	1	
C0415	nsp	CK73B1A224KT +1608		00D2570520911	1	
C0416	nsp	CK73B1A106KT +2125		00D2570038908	1	
C0417	nsp	CK73F1C1042T +1005		00D2575009974	1	
C0418,0419	nsp	CK73B1A106KT +2125		00D2570038908	1	
C0420	nsp	CC73CH1H120JT +1608		00D2570503941	1	
C0421	nsp	CK73F1C1042T +1005		00D2575009974	1	
C0422	nsp	CC73CH1H120JT +1608		00D2570503941	1	
C0423-0446	nsp	CK73F1C1042T +1005		00D2575009974	1	
C0447,0448	nsp	CK73F1H1032T +1005		00D2575009929	1	
C0449,0450	nsp	CK73B1A106KT +2125		00D2570038908	1	
C0451	00MEY107006BY	PVO-6V101MF60S-R2 (100UF 6.3V ESR=50)		00MEY107006BY	1	
C0452-0467	nsp	CK73F1C1042T +1005		00D2575009974	1	
C0468-0471	nsp	CK73B1A106KT +2125		00D2570038908	1	
C0472	00MEY107006BY	PVO-6V101MF60S-R2 (100UF 6.3V ESR=50)		00MEY107006BY	1	
C0473-0492	nsp	CK73F1C1042T +1005		00D2575009974	1	
C0496-0501	nsp	C1608X7R1H104K		00MDK9610430Y	1	
C0700	nsp	CK73F1C1042T +1005		00D2575009974	1	
C0701	nsp	CK73F1H1032T +1005		00D2575009929	1	
C0702	nsp	CK73B1H102KT +1005		00D2575006993	1	

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
C0703-0705	nsp	CK73F1C104ZT +1005		00D2575009974	1	
C0706	00D2574012933	CE67C1C101MT (RV2) +REF		00D2574012933	1	
C0707	00MEY107006BY	PVO-6V101MF60S-R2 (100UF 6.3V ESR=50)		00MEY107006BY	1	
C0708	nsp	CK73F1C104ZT +1005		00D2575009974	1	
C0709	00D2574012933	CE67C1C101MT (RV2) +REF		00D2574012933	1	
C0710	00D2544645903	CE67C0J221MT(MVA) +REF		00D2544645903	1	
C0711	00D2574011905	CE67C0J101MT (RV2) +REF		00D2574011905	1	
C0712,0713	nsp	CK73B0J475KT +1608		00D2570522906	1	
C0714	nsp	CK73F1C104ZT +1005		00D2575009974	1	
C0715	nsp	CC73CH1H470JT +1608		00D2570504982	1	
C0716	00D2574011905	CE67C0J101MT (RV2) +REF		00D2574011905	1	
C0717	nsp	CK73B0J475KT +1608		00D2570522906	1	
C0718,0719	00D2574011905	CE67C0J101MT (RV2) +REF		00D2574011905	1	
C0720,0721	nsp	CK73B0J475KT +1608		00D2570522906	1	
C0722	nsp	CK73F1C104ZT +1005		00D2575009974	1	
C0723	nsp	CC73CH1H470JT +1608		00D2570504982	1	
C0724	nsp	CK73F1C104ZT +1005		00D2575009974	1	
C0725	nsp	CK73F1H103ZT +1005		00D2575009929	1	
C0726	nsp	CK73B1H102KT +1005		00D2575006993	1	
C0727	nsp	CK73F1C104ZT +1005		00D2575009974	1	
C0728	nsp	CK73F1H103ZT +1005		00D2575009929	1	
C0729	nsp	CK73B1H102KT +1005		00D2575006993	1	
C0730	nsp	CK73F1C104ZT +1005		00D2575009974	1	
C0731	nsp	CK73F1H103ZT +1005		00D2575009929	1	
C0732	nsp	CK73B1H102KT +1005		00D2575006993	1	
C0733	nsp	CK73F1C104ZT +1005		00D2575009974	1	
C0734	nsp	CK73F1H103ZT +1005		00D2575009929	1	
C0735	nsp	CK73B1H102KT +1005		00D2575006993	1	
C0736	nsp	CK73F1C104ZT +1005		00D2575009974	1	
C0737	nsp	CK73F1H103ZT +1005		00D2575009929	1	
C0738	nsp	CK73B1H102KT +1005		00D2575006993	1	
C0739	nsp	CK73F1C104ZT +1005		00D2575009974	1	
C0740	nsp	CK73F1H103ZT +1005		00D2575009929	1	
C0741	nsp	CK73B1H102KT +1005		00D2575006993	1	
C0742	nsp	CK73F1C104ZT +1005		00D2575009974	1	
C0743	nsp	CK73F1H103ZT +1005		00D2575009929	1	
C0744	nsp	CK73B1H102KT +1005		00D2575006993	1	
C0745	nsp	CK73F1C104ZT +1005		00D2575009974	1	
C0746	nsp	CK73F1H103ZT +1005		00D2575009929	1	
C0747	nsp	CK73B1H102KT +1005		00D2575006993	1	
C0748	nsp	CK73F1C104ZT +1005		00D2575009974	1	
C0749	nsp	CK73F1H103ZT +1005		00D2575009929	1	
C0750	nsp	CK73B1H102KT +1005		00D2575006993	1	
C0751	nsp	CK73B1H103KT (1608) +1608		00D2570501901	1	
C0800	nsp	CK73B1H102KT +1005		00D2575006993	1	
C0801	nsp	CK73F1C104ZT +1005		00D2575009974	1	
C0802	nsp	CK73B1H102KT +1005		00D2575006993	1	
C0803	nsp	CK73F1C104ZT +1005		00D2575009974	1	
C0804	nsp	CK73B1H102KT +1005		00D2575006993	1	
C0805	nsp	CK73F1C104ZT +1005		00D2575009974	1	
C0806	nsp	CK73B1H102KT +1005		00D2575006993	1	
C0807	nsp	CK73F1C104ZT +1005		00D2575009974	1	
C0808	nsp	CK73B1H102KT +1005		00D2575006993	1	
C0809	nsp	CK73F1C104ZT +1005		00D2575009974	1	
C0810	nsp	CK73B1H102KT +1005		00D2575006993	1	
C0811	nsp	CK73F1C104ZT +1005		00D2575009974	1	
C0812	nsp	CK73B1H102KT +1005		00D2575006993	1	
C0813	nsp	CK73F1C104ZT +1005		00D2575009974	1	
C0814	nsp	CK73B1H102KT +1005		00D2575006993	1	
C0815	nsp	CK73F1C104ZT +1005		00D2575009974	1	
C0816	nsp	CK73B1H102KT +1005		00D2575006993	1	
C0817	nsp	CK73F1C104ZT +1005		00D2575009974	1	
C0818	nsp	CK73B1H102KT +1005		00D2575006993	1	
C0819	nsp	CK73F1C104ZT +1005		00D2575009974	1	
C0820	nsp	CK73B1H102KT +1005		00D2575006993	1	
C0821	nsp	CK73F1C104ZT +1005		00D2575009974	1	
C0822	nsp	CK73B1H102KT +1005		00D2575006993	1	
C0823,0824	nsp	CK73F1C104ZT +1005		00D2575009974	1	
C0825	00D2574012933	CE67C1C101MT (RV2) +REF		00D2574012933	1	
C0826	nsp	CK73F1C104ZT +1005		00D2575009974	1	
C0827	00D2544602920	CE67W1C100MT(P.CAP)		00D2544602920	1	
C0828-0830	nsp	CK73F1C104ZT +1005		00D2575009974	1	
C0836	nsp	CK73F1C104ZT +1005		00D2575009974	1	
C0837	00D2574012933	CE67C1C101MT (RV2) +REF		00D2574012933	1	
C0838	nsp	CK73F1C104ZT +1005		00D2575009974	1	
C0839	00D2574012933	CE67C1C101MT (RV2) +REF		00D2574012933	1	
OTHER PARTS GROUP						
B0101,0102	nsp	GND TERMINAL FOR PCB		00MYL01010241	1	
B0301,0302	nsp	GND TERMINAL FOR PCB		00MYL01010241	1	
B0400,0401	nsp	M3 SCREW TERMINAL		00D2051034007	1	
K0301	643010074603S	1P RCA PIN JACK		643010074603S	1	
L0101	nsp	MLB-1608-1000A-N2		00MFC9002021Y	1	
L0102,0103	nsp	FBMJ1608HS280NT +1608		00D2350136907	1	
L0105	nsp	MLB-1608-1000A-N2		00MFC9002021Y	1	
L0106-0110	nsp	FBMJ1608HS280NT +1608		00D2350136907	1	
L0301-0303	nsp	E.FIL(BLM21PG221SN1)+2125		00D2350147909	1	
L0400	nsp	BLM18B102SN1D		00MFN3101003Y	1	
L0401-0406	nsp	E.FIL(BLM21PG221SN1)+2125		00D2350147909	1	
L0700-0702	nsp	E.FIL(BLM21PG221SN1)+2125		00D2350147909	1	
L0703-0705	nsp	FBMJ1608HS280NT +1608		00D2350136907	1	
L0800,0801	nsp	E.FIL(BLM21PG221SN1)+2125		00D2350147909	1	
N0101	nsp	S8B-PH-K-S (LF)(SN)		00MYJ06006480	1	
N0102	nsp	S14B-PH-K-S (LF)(SN)		00MYJ06006540	1	
N0103	nsp	7P FFC BASE(SIDE)		64401013000AS	1	
N0104	nsp	S12B-PH-K-S (LF)(SN)		00MYJ06006520	1	
N0105	nsp	S3B-EH		00MYP06003930	1	
N0110	nsp	B10B-PH-SM4-TB (LF)(SN)		00MYJ0701980Y	1	
N0301	nsp	S10B-PH-K-S (LF)(SN)		00MYJ06006500	1	
N0401	00MYJ90014770	UBB-4R-D14T-4D		00MYJ90014770	1	
N0701	nsp	S4B-EH		00MYP06003940	1	
N0801	nsp	7P FFC BASE(SIDE)		64401013000AS	1	
X0101	00MFQ0160511Y	CSTCE16M0V51-R0		00MFQ0160511Y	1	
X0400	14181008350AS	FCX-04(26MHz)		14181008350AS	1	

EXPLODED

※Parts indicated by "nsp"on this table cannot be supplied.

※The parts listed b NOTE:The symbols in the column Remarks indicate the following destinations.

U : North America model N : Europe model K : China model F : Japan model

B : Black model SG : Silver gold model

REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
P1	nsp	MAIN PCB UNIT			1	*	
P2	nsp	POWER STAGE PCB UNIT			1	*	
P3	nsp	WIRE PROTECTION PCB UNIT			1	*	
P4	9U-310151A	DIGITAL PCB UNIT			1	*	
P5	nsp	STANDBY LED PCB UNIT			1	*	
P6	nsp	INPUT SEL PCB UNIT			1	*	
P7	nsp	PHONE AMP PCB UNIT			1	*	
P8	nsp	HEADPHONE PCB UNIT			1	*	
P9	nsp	CLAMP PCB UNIT			1	*	
P10	nsp	POWER SW PCB			1	*	
P11	nsp	STANDBY PCB UNIT			1	*	
P12	nsp	PHONO AMP PCB UNIT			1	*	
P13	nsp	SPK TERMINAL PCB			1	*	
P14	nsp	VOLUME PCB UNIT			1	*	
0010F	40241044400AM	FRONT AL PANEL PM7005 BL	B	40241044400AM	1	*	
0010F	40241044401AM	FRONT AL PANEL PM7005 SG	SG	40241044401AM	1	*	
0020F	421410006004M	MARANTZ BADGE (AL) FOR M1 MODEL		421410006004M	1		
0040F	42251006200AM	ESCUTCHEON CENTER		42251006200AM	1	*	
0050F	42251006300AM	ESCUTCHEON CENTER BASE BL PM7005	B	42251006300AM	1	*	
0050F	42251006301AM	ESCUTCHEON CENTER BASE SG PM7005	SG	42251006301AM	1	*	
0060F	423410006000M	LENS FUNCTION PM7003 24AJ		423410006000M	8		
0070F	44351008400AM	FRONT CENTER INNER MOLD BL	B	44351008400AM	1	*	
0070F	44351008401AM	FRONT CENTER INNER MOLD SG	SG	44351008401AM	1	*	
0080F	424510004006M	RING VOLUME BL PM7003 24AJ	B	424510004006M	2		
0080F	424510004037M	RING VOLUME SG PM7003 24AJ	SG	424510004037M	2		
0090F	nsp	SCREW		00M51280310M0	4		
0100F	40251037901AM	ESCUTCHEON (L)	U,NB	40251037901AM	1		
0100F	40251037902AM	ESCUTCHEON (L)	KB	40251037902AM	1		
0100F	40251037900AM	ESCUTCHEON (L)	SG	40251037900AM	1		
0110F	nsp	SCREW		00M51280308M0	2		
0120F	481510003006M	LENS		481510003006M	1		
0130F	411510027003M	BUTTON PUSH BL PM7003 24AJ	B	411510027003M	1		
0130F	411510027034M	BUTTON PUSH SG PM7003 24AJ	SG	411510027034M	1		
0140F	nsp	SCREW		00M51280308M0	2		
0150F	nsp	SCREW		00M51280308M0	2		
0160F	402410034008M	ESCUTCHEON R BL PM7003 24AJ	B	402410034008M	1		
0160F	402410034039M	ESCUTCHEON R SG PM7003 24AJ	SG	402410034039M	1		
0170F	nsp	SCREW		00M51280308M0	2		
0180F	nsp	STAY SA7003 33AK		442310004006M	1		
0190F	nsp	SCREW		00M51280308M0	4		
0210F	nsp	SCREW		00M51280308M0	5		
0220F	nsp	SCREW		00M51280308M0	9		
0230F	nsp	SCREW		00M51280308M0	5		
0240F	nsp	SCREW		00M51290308M0	1		
0245F	nsp	B.T.SCREW EX600240		00M51260308M0	1		
0250F	nsp	SCREW		00M51280308M0	4		
0260F	41251012100AM	KNOB TONE BL	B	41251012100AM	3		
0260F	41251012101AM	KNOB TONE SG	SG	41251012101AM	3		
0270F	41201011001AM	KNOB AL ASSY	B	41201011001AM	1		
0270F	41201011000AM	KNOB AL ASSY	SG	41201011000AM	1		
0280F	412410008006M	KNOB AL CAP POINTER BL PM7003 24AJ	B	412410008006M	1		
0280F	412410008037M	KNOB AL CAP POINTER SG PM7003 24AJ	SG	412410008037M	1		
0290F	481510004009M	LENS IR BL PM7003 24AJ	B	481510004009M	1		
0290F	481510004047M	LENS IR WH PM7003 24AJ	SG	481510004047M	1		
0300F	411510028006M	BUTTON BL PM7003 24AJ	B	411510028006M	4		
0300F	411510028037M	BUTTON SG PM7003 24AJ	SG	411510028037M	4		
0310F	nsp	SCREW		00M51500308M0	2		
0320F	00M14AJ107010	TOP COVER SHEET		00M14AJ107010	3		
0330F	nsp	WIRE CLAMPER		00M303V005010	1		
0340F	nsp	SPECIAL SCREW		0RD4770262019	1		
0350F	nsp	SCREW		00M51290308M0	1		
0360F	nsp	SCREW		00M51280310M0	1		
0010T	00M14AJ257320	TOP COVER BL PM7003 24AJ	B	00M14AJ257320	1		
0010T	00M14AJ257312	TOP COVER SG PM7003 24AJ	SG	00M14AJ257312	1		
0020T	nsp	SCREW	B	00M51260308U0	6		
0020T	nsp	SCREW (SELF TAPPING)	SG	00M51260308K0	6		
0030T	nsp	B.T.SCREW EX600240		00M51260308M0	1		
0035T	00M411K118012	SPACER		00M411K118012	1		
0040T	544510081006M	LABEL (HOT SURFACE CAUTION)		544510081006M	1		
0050T	nsp	BUFFER TOP COVER INSIDE PM7003 24AJ		436510015023M	2		
0060T	nsp	SCREW		00M51290308M0	1		
0010C	nsp	CHASSIS MAIN		00M14AJ105210	1	*	
0020C	nsp	SCREW STOPPER		00M14AJ114010	1		
0030C	nsp	SCREW		00M51280308M0	2		
0060C	nsp	SCREW		00M51290410M0	4		
0080C	00M243W057312	FOOT		00M243W057312	4	*	
0085C	00M32CW107010	CUSHION FOOT CHG1A360		00M32CW107010	4		
0090C	nsp	SCREW		00M51260310M0	4		
0100C	nsp	B.T.SCREW EX600240		00M51260308M0	3		
0110C	nsp	SCREW		00M51280308M0	1		
0120C	nsp	SCREW		00M51460306M9	2		
0130C	nsp	SCREW		00M51460306M9	1		
0140C	nsp	PCB SUPPORT RICHICO		00M14AJ101010	1		
0150C	nsp	B.T.SCREW EX600240		00M51260308M0	2		
0160C	nsp	SCREW		00M51460306M9	1		
0170C	nsp	SCREW		00M51100306M9	1		
0175C	nsp	CARD SPACER(L=10)		00D4122814028	2		
0185C	45101020110AM	SHEET		45101020110AM	1	*	
0186C	45101020200AM	SHEET		45101020200AM	1	*	
0187C	nsp	CLAMPER		00M284J005010	2		
0180C	nsp	HOLDER (A)		00D4090052019	2		
0190C	nsp	SCREW		00M51290308M0	1		
0350C	nsp	DIGITAL SHIELD TOP PM7005		44531015810AM	1	*	
0353C	nsp	SHIELD PLATE CMD1A857		44631010500AM	1		
0355C	nsp	SCREW		00M51280306M0	2		
0357C	nsp	LABEL MARANTZ CQB1A1227Z		54451221300AM	1		
0360C	nsp	SCREW		00M51460306M9	4		
0370C	nsp	DIGITAL SHIELD BOTTOM PM7005		44531015900AM	1	*	
0380C	nsp	SHEET DIGITAL Shield Bottom		44501020100AM	1	*	

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
0390C	nsp	SCREW		00M51100306M9	4	
0400C	nsp	SUPPORT DIGITAL		45231002500AS	1	*
0410C	nsp	BRACKET DIGITAL PWB		44431034400AM	1	*
0420C	nsp	SCREW		00M51280308M0	1	
0430C	nsp	SCREW		00M51280308M0	1	
0440C	nsp	SCREW		00M51460306M9	1	
0450C	nsp	SCREW		00M51460306M9	1	
0230C	nsp	SIDE RETAINER L PM7003 24AJ		442310005009M	1	
0240C	nsp	SCREW		00M51280308M0	1	
0245C	nsp	SCREW		00M51290308M0	1	
0250C	nsp	SIDE RETAINER R PM7003 24AJ		442310006002M	1	
0260C	nsp	B.T.SCREW EX600240		00M51260308M0	2	
0270C	nsp	WASHER		00M281K118010	2	
0280C	nsp	BRACKET SA7003 33AK		444310036009M	2	
0290C	nsp	SCREW-B		00M51280308U0	4	
0300C	nsp	CONTACTOR PM7005		48841000301AM	1	*
0310C	nsp	SCREW		00M51290308M0	1	
0320C	nsp	SCREW		00M51290308M0	2	
0340C	nsp	WIRE CLAMPER		00D4458004007	12	
0010R	nsp	REAR PANEL PM7005 U	U	40631014703AM	1	*
0010R	nsp	REAR PANEL PM7005 N	N	40631014700AM	1	*
0010R	nsp	REAR PANEL PM7005 K	K	40631014702AM	1	*
0010R	nsp	REAR PANEL PM7005 F	F	40631014701AM	1	*
0010L	nsp	CLEAR LABEL(44X12 T0.05)	U,K	00M32AK861900	1	
0013R	nsp	USB SPACER		45151013200AM	1	
0020R	nsp	SCREW		00M51270308M0	3	
0030R	nsp	SCREW		00M51270308M0	4	
0040R	nsp	SCREW		00M51460306M9	1	
0050R	nsp	SCREW		00M51270308M0	1	
0055R	nsp	SCREW		00M51460306M9	1	
0060R	nsp	SCREW		00M51290308M0	2	
0070R	nsp	SCREW		00M51270308M0	3	
0090R	nsp	SCREW		00M51280308M0	2	
0095R	nsp	SCREW		00M51460306M9	2	
0100R	nsp	NUT SPEAKER		00M04AJ011110	4	*
0110R	nsp	SPACER SPEAKER		45101020010AM	1	*
0120R	nsp	STUD SPEAKER PWB		00M04AJ011110	2	*
0130R	nsp	SCREW/CD LID EARTH		00M51100304M9	2	
0140R	nsp	SCREW/CD LID EARTH		00M51100304M9	1	
0150R	nsp	SCREW		00M51460306M9	1	
0010H	nsp	MAIN HEATSINK PM7005		44741007700AM	1	*
0020H	nsp	HEATSINK BRACKET		00M14AJ160010	2	
0030H	nsp	SCREW		00M51280312M0	4	
0040H	nsp	STUD M3 9mm		45241005300AM	6	*
0050H	nsp	SCREW		00M51480306M9	6	
0055H	nsp	CORD HOLDER (L50)		0RD4450048016	2	
0060H	nsp	SCREW		00M51480315M9	4	
0070H	nsp	SCREW		00M51100308M9	4	
0080H	nsp	SCREW		00M51280308M0	1	
0090H	nsp	BRACKET		00M14AJ160030	1	
0100H	nsp	SCREW		00M51500308M0	2	
0500C	nsp	BUSH SCREW		00M28AK259012	2	
! J0001	00D2033996008	AC INLET (2P)		00D2033996008	1	
J0002	nsp	TERMINAL		00MYL03010330	1	
J0003J0004	64671002401AM	SPKT-1 RED		64671002401AM	2	
J0005J0006	64671002501AM	SPKT-1 WHITE		64671002501AM	2	
! T0001	10101023600AM	POWER TRANS A400 (120V)	U	10101023600AM	1	*
! T0001	10101023300AM	POWER TRANS A400 (230V)	N,K	10101023300AM	1	*
! T0001	10101023500AM	POWER TRANS A400 (100V)	F	10101023500AM	1	*
! W0002	nsp	VAR-NO CN7.92MMPICH1PIN:BR.2PIN:BL10CM		120109160060	1	
W0003	nsp	VAR-VAR 7.92MMPICH 1PIN:BR.2PIN:BR22CM		120108950000	1	
W0004	nsp	12P L=190 PHR-PHR UL1061 AWG28		61205062300AM	1	*
W0005	nsp	3P L=130 EHR-EHR UL1430 AWG26		61205062400AM	1	*
W0006	nsp	4P L=380 EHR-EHR UL1430 AWG26		61205061800AM	1	*
W0007	nsp	8P L=300 PHR-PHR UL1061 AWG28		61205062100AM	1	*
W0008	nsp	VHR-VHR(NTYPE)3.96MM 4PIN 19CM		612050091008M	1	
W0010	nsp	3P L=330 EHR-EHR UL1430 AWG26		61205061900AM	1	*
W0011	nsp	14P L=210 PHR-PHR UL1061 AWG28		61205062200AM	1	*
W0012	nsp	10P L=60 PHR-PHR UL1061 AWG28		61205062500AM	1	*
L0001	nsp	FERRITE CORE GRFC-4		11701001502AS	1	
! KT701	2170500010040	2SA1186/2SC2837 RANK Y P		2170500010040	1	
! LQ7011	nsp	2SC2837 RANK Y P		2130500030080	1	
! LQ7013	nsp	2SA1186 RANK Y P		2110500030020	1	
! KT702	2170500010040	2SA1186/2SC2837 RANK Y P		2170500010040	1	
! LQ7012	nsp	2SC2837 RANK Y P		2130500030080	1	
! LQ7014	nsp	2SA1186 RANK Y P		2110500030020	1	

PACKING

※Parts indicated by "nsp"on this table cannot be supplied.

※The parts listed b NOTE:The symbols in the column Remarks indicate the following destinations.

U : North America model N : Europe model K : China model F : Japan model

B : Black model SG : Silver gold model

REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
0010P	53121051400AM	PKG CASE PM7005		53121051400AM	1		
0020P	53361021900AM	CUSHION ASSY		53361021900AM	1		
1001P	53361018900AM	CUSHION BOTTOM		53361018900AM	1		
1002P	53361019000AM	CUSHION TOP		53361019000AM	1		
0022P	53261003000AD	CUSHION PAD		53261003000AD	2		
0040P	nsp	CONT LABEL SUB ASSY PM7005 U1B	U	8W5451030004M	1		
0040P	nsp	CONT LABEL SUB ASSY PM7005 N1B	NB	8W5451030000M	1		
0040P	nsp	CONT LABEL SUB ASSY PM7005 N1SG	NSG	8W5451030001M	1		
0040P	nsp	CONT LABEL SUB ASSY PM7005 K1B	KB	8W5451030003M	1		
0040P	nsp	CONT LABEL SUB ASSY PM7005 FN	F	8W5451030002M	1		
!	-	CONT LABEL BASE(D&M)		545110022004S	1		
!	-	CONT LABEL FILM		545010028003S	1		
0050P	nsp	CABINET COVER		00D5050131076	1		
0060P	544110091014M	LABEL FOR PKG SG	SG	544110091014M	2		
0070P	537210014001M	REINFORCE		537210014001M	4		
0010U	35201034100AM	INST. MANUAL (U CD-ROM)	U	35201034100AM	1	*	
0010U	35201034000AM	INST. MANUAL (N CD-ROM)	N	35201034000AM	1	*	
0010U	35201034001AM	INST. MANUAL (K CD-ROM)	K	35201034001AM	1	*	
0010U	54111118700AM	INST. MANUAL(F)	F	54111118700AM	1	*	
0020U	nsp	WARRANTY USA	U	54311010512AM	1		
0020U	nsp	WARRANTY FOR CHINA MARANTZ	K	8W5431016600M	1		
0020U	nsp	WARRANTY F (HOSHOUHO)	F	00M27AK854013	1		
0030U	nsp	WARRANTY CANADA	U	00M183J854018	1		
0030U	nsp	USER CARD (F)	F	00M21AK865019	1		
0050U	nsp	SAFETY INSTRUCTIONS (U)	U	54311037210AM	1	*	
0050U	nsp	SAFETY INSTRUCTIONS (N)	N	54311038900AM	1	*	
0050U	nsp	SAFETY INSTRUCTIONS (E1C)	K	54311029800AD	1		
0050U	nsp	SAFETY INSTRUCTIONS (JP)	F	54111093420AD	1	*	
0060U	54111119000AM	QUICK START GUIDE U	U	54111119000AM	1	*	
0060U	54111118800AM	QUICK START GUIDE N	N	54111118800AM	1	*	
0060U	54111118801AM	QUICK START GUIDE K	K	54111118801AM	1	*	
0060U	54111118802AM	QUICK START GUIDE F	F	54111118802AM	1	*	
0010A	nsp	ENVELOPE		535510048005S	1		
0030A	nsp	BATTERY (R03X2) EASTPOWER		69105000500AS	1		
0020A	30701020000AS	RC003PMSA		30701020000AS	1	*	
0080P	nsp	POLY COVER		00D5050038072	1		
! W0001	61105010000AS	AC CORD SET (E3 WHT)	U	61105010000AS	1	*	
! W0001	61105010100AS	AC CORD SET (E2 WHT)	N	61105010100AS	1	*	
! W0001	61105010200AS	AC CORD SET (E1C WHT)	K	61105010200AS	1	*	
! W0001	611050028007S	AC CORD 2P(JP)	F	611050028007S	1		