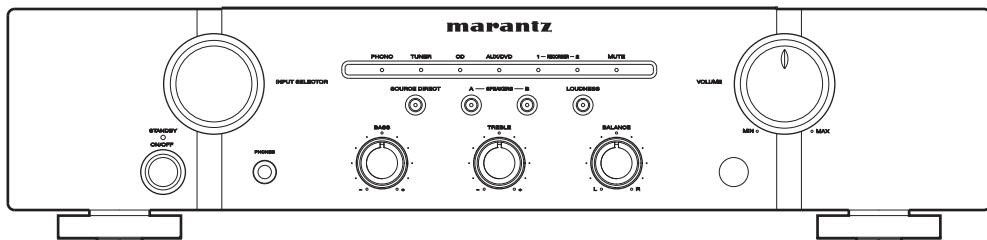


Service Manual

PM6004 /N1SG/N1B/K1B/U1B

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®

PM6004

Ver. 1

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MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, **MARANTZ** company has created the ultimate in stereo sound. Only original **MARANTZ** parts can insure that your **MARANTZ** product will continue to perform to the specifications for which it is famous.

Parts for your **MARANTZ** equipment are generally available to our National **Marantz** Subsidiary or Agent.
ORDERING PARTS :

Parts can be ordered either by mail or by Fax.. In both cases, the correct part number has to be specified.

The following information must be supplied to eliminate delays in processing your order :

1. Complete address
2. Complete part numbers and quantities required
3. Description of parts
4. Model number for which part is required
5. Way of shipment
6. Signature : any order form or Fax. must be signed, otherwise such part order will be considered as null and void.

USA

MARANTZ AMERICA, INC
100 CORPORATE DRIVE
MAHWAH, NEW JERSEY 07430
USA

EUROPE / TRADING

D&M EUROPE B. V.
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MARKHAM, ONTARIO L3R 5B1
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D&M BUILDING, 2-1 NISSHIN-CHO,
KAWASAKI-KU, KAWASAKI-SHI,
KANAGAWA, 210-8569 JAPAN

株式会社 ディーアンドエムホールディングス
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神奈川県川崎市川崎区日進町2-1 D&Mビル

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SEOUL KOREA
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D&M SALES AND MARKETING SHANGHAI LTD.
ROOM.808 SHANGHAI AIRPORT CITY TERMINAL
NO.1600 NANJING (WEST) ROAD, SHANGHAI,
CHINA. 200040
TEL : 021 - 6248 - 5151
FAX : 021 - 6248 - 4434

NOTE ON SAFETY :

Symbol Fire or electrical shock hazard. Only original parts should be used to replaced any part marked with symbol . Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

安全上の注意：

がついている部品は、安全上重要な部品です。必ず指定されている部品番号の部品を使用して下さい。

SHOCK, FIRE HAZARD SERVICE TEST :

CAUTION : After servicing this appliance and prior to returning to customer, measure the resistance between either primary AC cord connector pins (with unit NOT connected to AC mains and its Power switch ON), and the face or Front Panel of product and controls and chassis bottom.

Any resistance measurement less than 1 Megohms should cause unit to be repaired or corrected before AC power is applied, and verified before it is return to the user/customer.

Ref. UL Standard No. 60065.

In case of difficulties, do not hesitate to contact the Technical
Department at above mentioned address.

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 millamps, 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 seasons, 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 $1M\Omega$ 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  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 millamps, 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

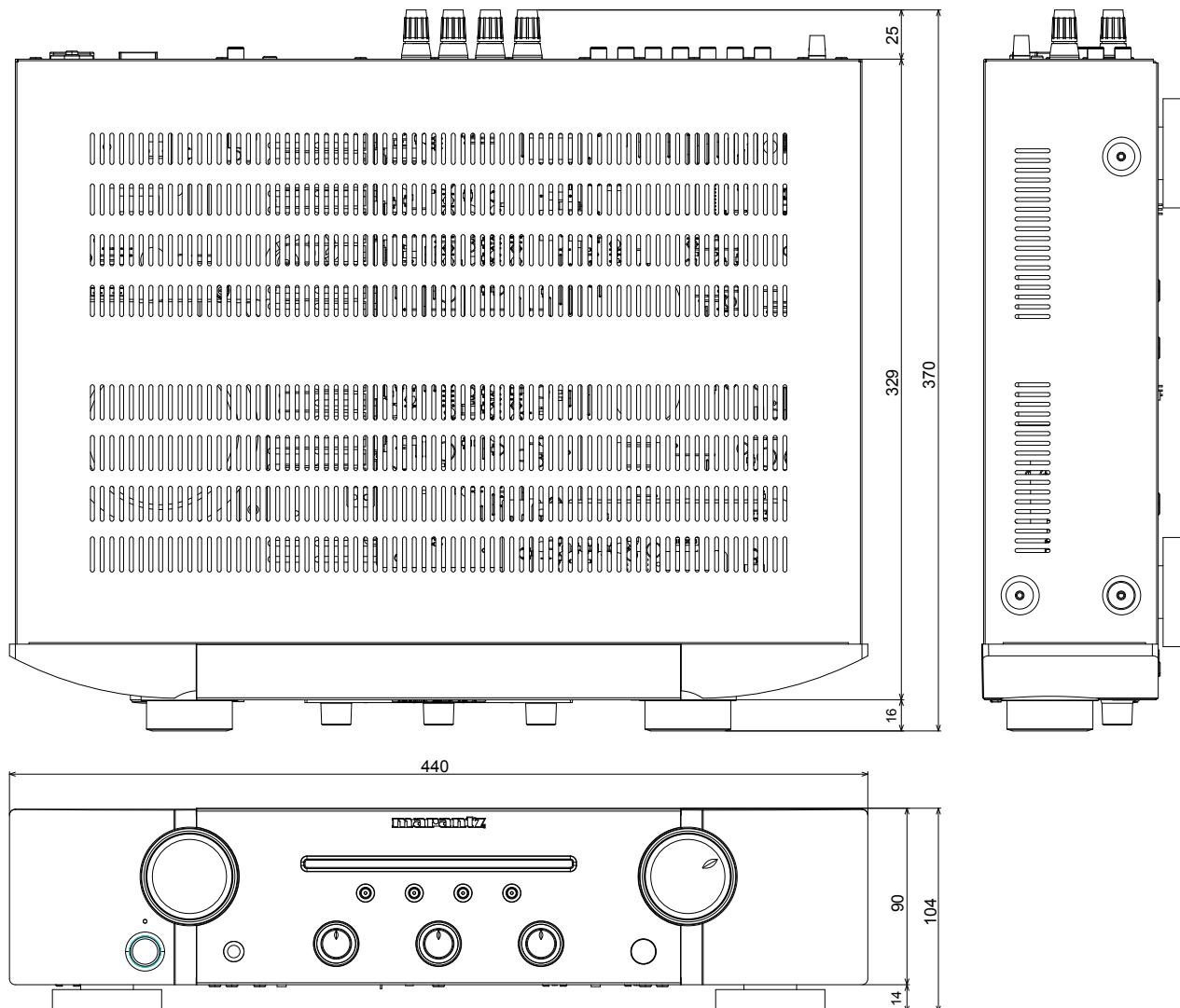
1. Parts indicated by "nsp" on this table cannot be supplied.
2. When ordering a part, make a clear distinction between "1" and "I" (i) to avoid mis-supplying.
3. A part ordered without specifying its part number can not be supplied.
4. Part indicated by "★" mark is not illustrated in the exploded view.
5. General-purpose Carbon Film Resistor in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)
6. General-purpose Carbon Chip Resistors are not included are not included in the P.W.Board parts list.
(Refer to the Schematic Diagram for those parts.)

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

TECHNICAL SPECIFICATIONS

| | |
|---|--|
| RMS Power output | 45 W x 2 (8 Ω load) 60 W x 2 (4 Ω load) |
| (20 Hz – 20 kHz simultaneous drive of both channels): | |
| Total harmonic distortion | 0.08 % |
| (20 Hz – 20 kHz simultaneous drive of both channels, 8 Ω load): | |
| Output band width | 10 Hz – 50 kHz |
| (8 Ω load, 0.06 %): | |
| Frequency response | 10 Hz – 70 kHz +0 dB, -1 dB |
| (CD, 1 W, 8 Ω load): | |
| Damping factor | 100 |
| (8 Ω load, 40 Hz – 20 kHz): | |
| Input sensitivity/Input impedance | 2.2 mV/47 kΩ 200 mV/20 kΩ |
| PHONO (MM): | |
| CD, TUNER, AUX/DVD, RECORDER: | |
| Maximum allowable PHONO input level (1 kHz) | 100 mV |
| MM: | |
| RIAA deviation | ±1.0 dB |
| (20 Hz – 20 kHz): | |
| S/N (IHF-A, 8 Ω load) | 83 dB (5 mV input, 1 W output) 102 dB (2 V input, Rated output) |
| PHONO (MM): | |
| CD, TUNER, AUX/DVD, RECORDER: | |
| Tone control | |
| Bass (50 Hz): | ±10 dB |
| Treble (15 kHz): | ±10 dB |
| Power requirement: | AC 230 V 50/60 Hz (N) AC 220 V 50 Hz (K) AC 120 V 60 Hz (U) |
| Power consumption | 150 W |
| (EN60065): | |
| Power consumption during standby: | 0.2 W |
| Weight: | 7.4 kg |

DIMENSION

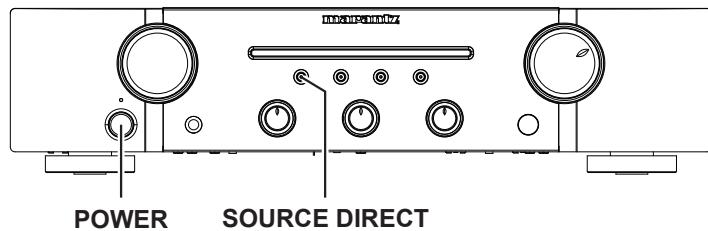


CAUTIONS IN SERVICING

Initializing INTEGRATED AMPLIFIER

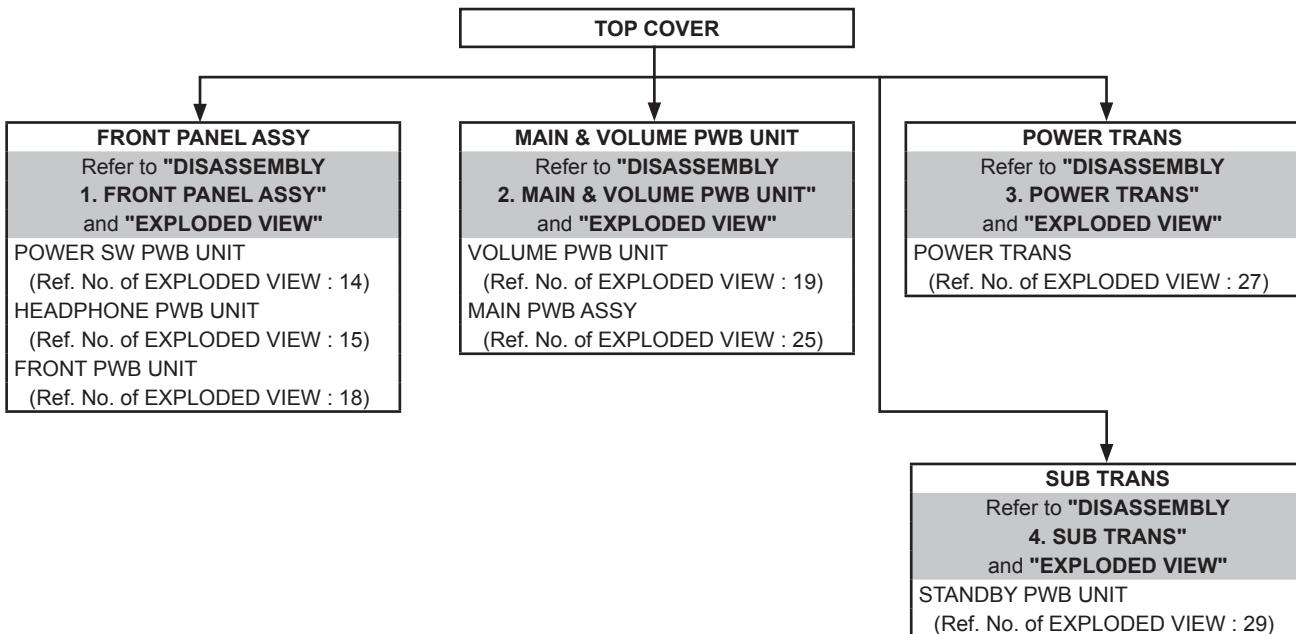
INTEGRATED AMPLIFIER initialization should be performed when the µcom and peripheral parts of µcom were replaced.

1. Turn off the power pressing POWER button.
2. Press POWER button while simultaneously while pressing SOURCE DIRECT buttons.
3. Check the set entered the service mode.(Refer to 31 page "SERVICE MODE".)



DISASSEMBLY

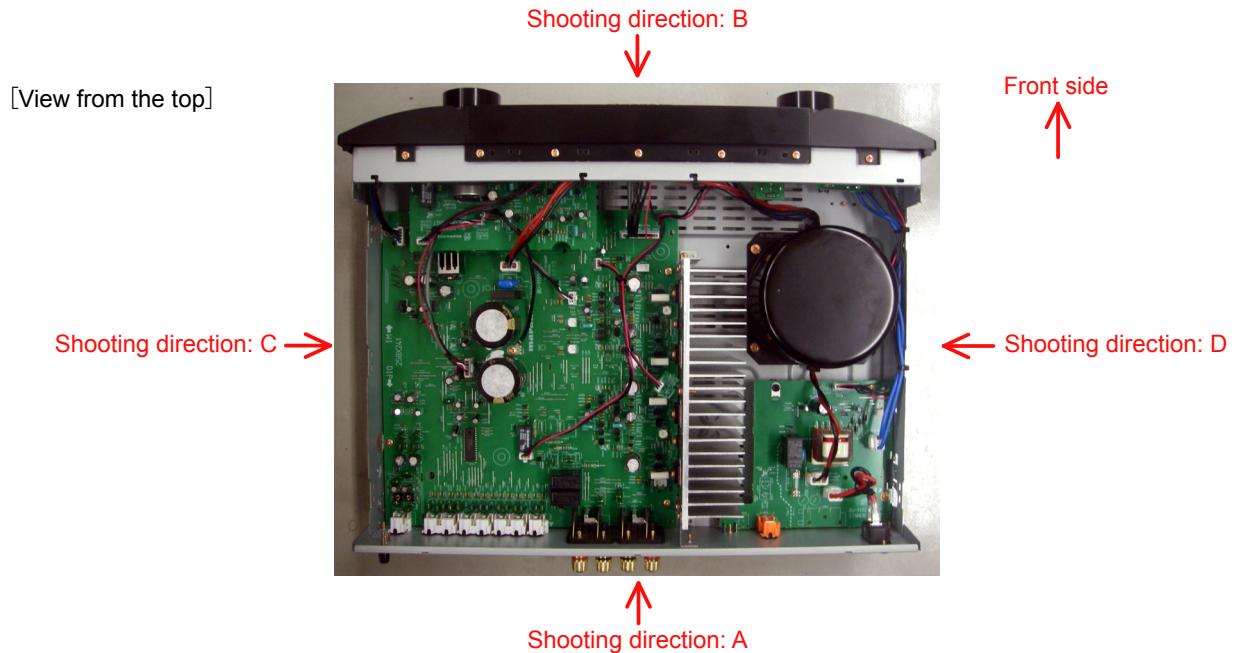
- Disassemble in order of the arrow in the following figure.
- In the case of the re-assembling, assemble it in order of the reverse of the following flow.
- In the case of the re-assembling, observe "attention of assembling".
- If wire bundles are untied or moved to perform adjustment or replace parts etc., be sure to rearrange them neatly as they were originally bundled or placed afterward.
Otherwise, incorrect arrangement can be a cause of noise generation.



About the photos used for "descriptions of the DISASSEMBLY" section

- The shooting direction of each photograph used herein is indicated on the left side of the respective photograph as "Shooting direction: ***".
- Refer to the diagram below about the shooting direction of each photograph.
- Photographs with no shooting direction indicated were taken from the top of the set.

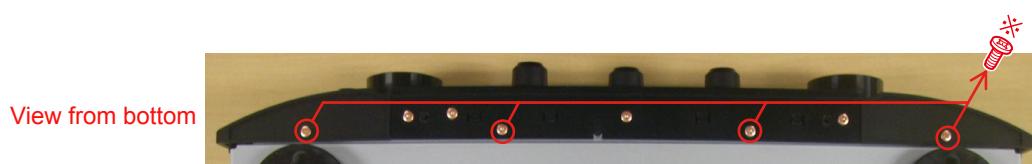
The viewpoint of each photograph (Shooting direction)



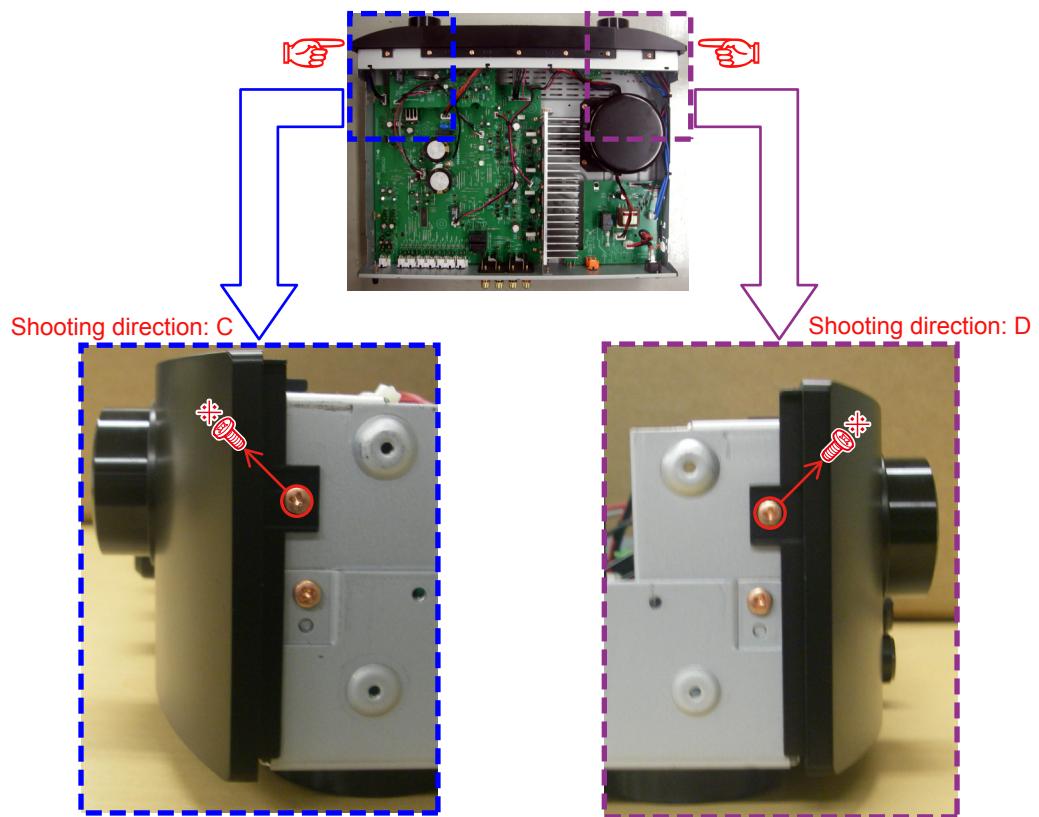
1. FRONT PANEL ASSY

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

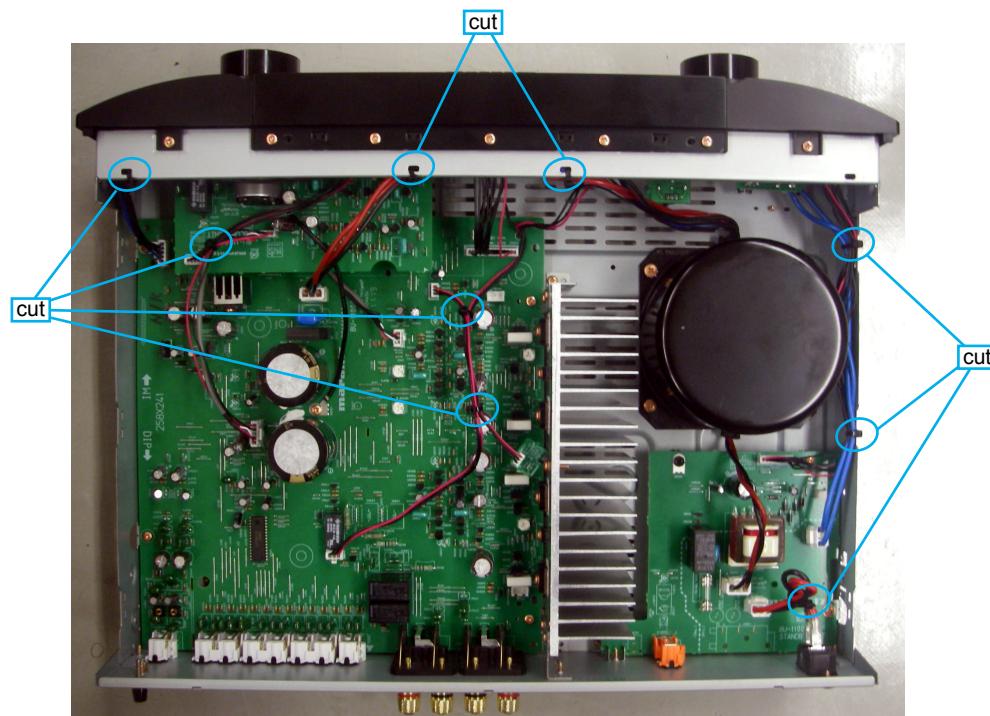
- (1) Remove the screws.



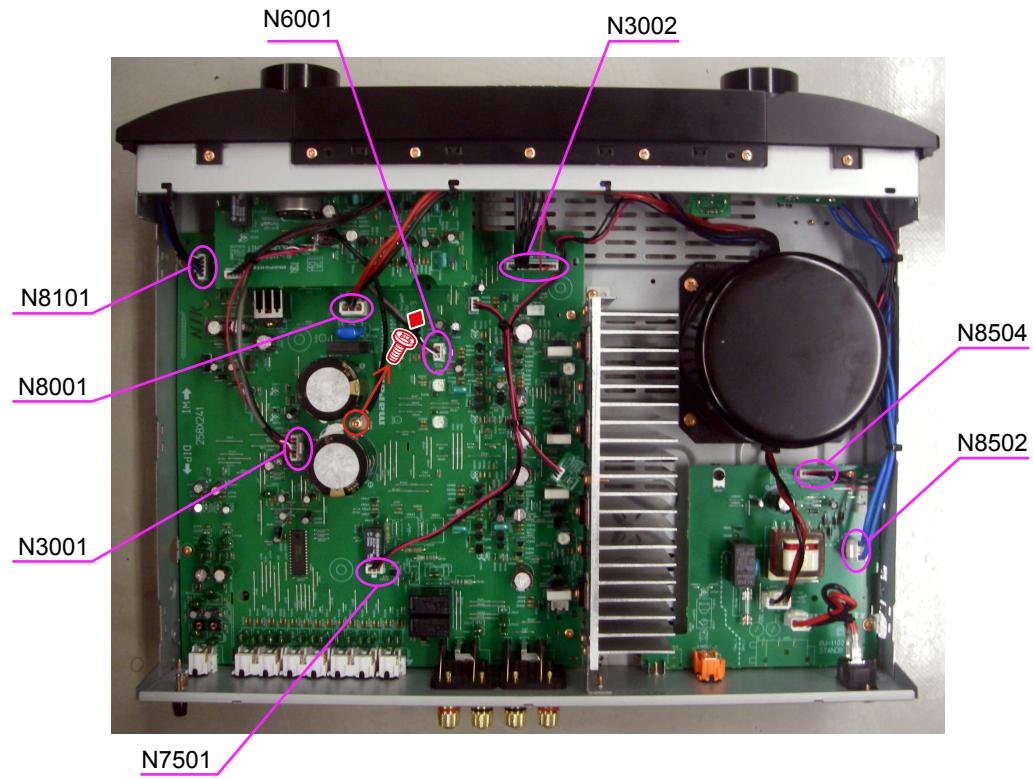
(2) Remove the screws.



(3) Cut the wire clamp band.



(4) Disconnect the connector wire. Remove the screws.



Please refer to "EXPLODED VIEW" for the disassembly method of each PWB included in FRONT PANEL ASSY.

2. MAIN & VOLUME PWB UNIT

Proceeding : **[TOP COVER] → [MAIN & VOLUME PWB UNIT]**

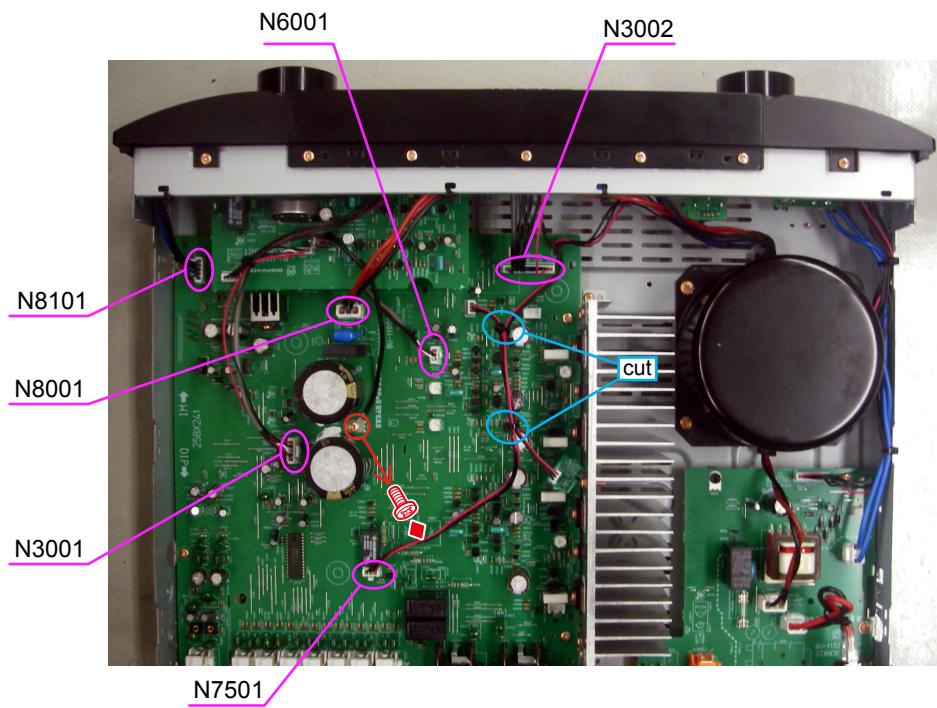
- (1) Detach the KNOB AL CAP POINTER. Remove the screws.



- (2) Remove the screws.



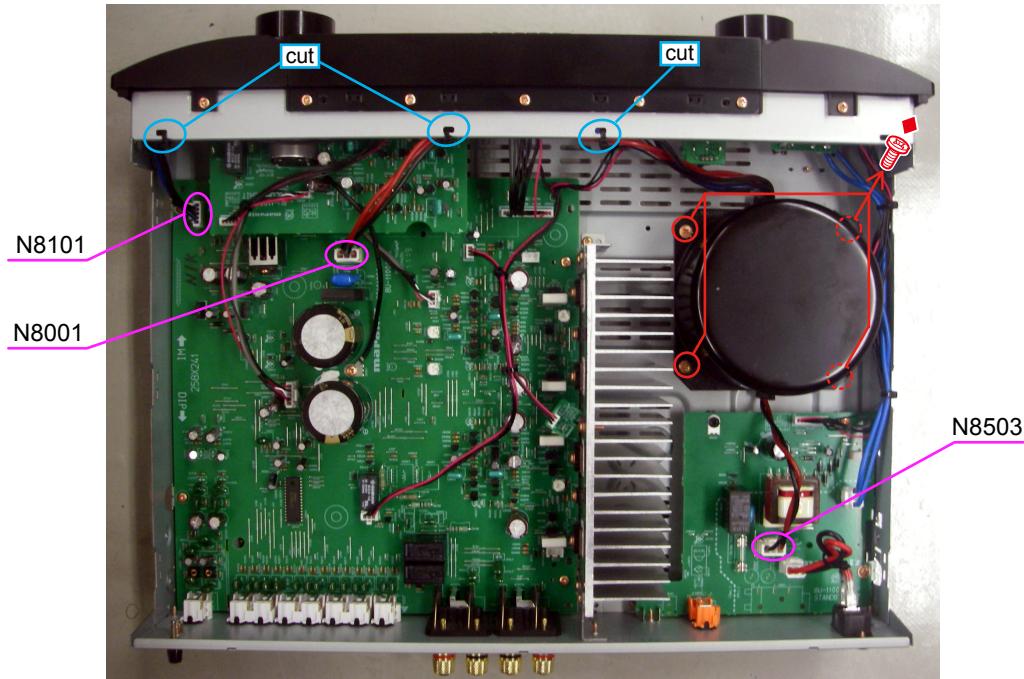
- (3) Cut the wire clamp band, then disconnect the connector wire. Remove the screws.



3. POWER TRANS

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

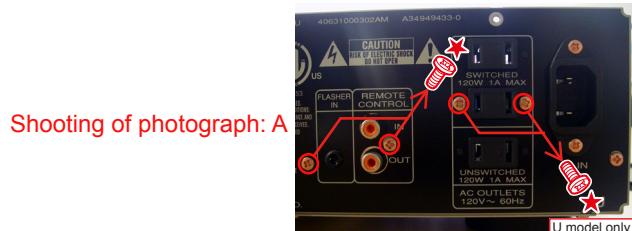
- (1) Cut the wire clamp band, then disconnect the connector wire. Remove the screws.



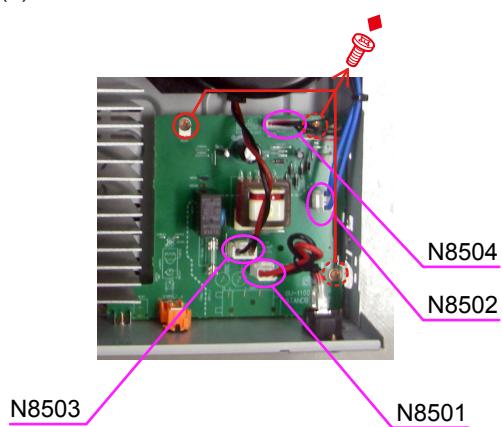
4. SUB TRANS

Proceeding : **TOP COVER** → **SUB TRANS**

- (1) Remove the screws.



- (2) Disconnect the connector wire. Remove the screws.



WHEN THE MICROPROCESSOR IS REPLACED WITH A NEW ONE

When the U-PRO (Microprocessor) or the Flash ROM is replaced, confirm the following.

| PWB Name | Ref. No. | Description | After replaced | Remark |
|----------|----------|-------------|----------------|--------|
| FRONT | U1001 | TMP86FH47UG | C | |

After replacing

A : Mask ROM (With software). No need for write-in of software to the microprocessor.

B : Flash ROM (With software). Usually, no need for write-in of software. But, when the software was updated, you should write the new software on the microprocessor or flash ROM. Please check the software version.

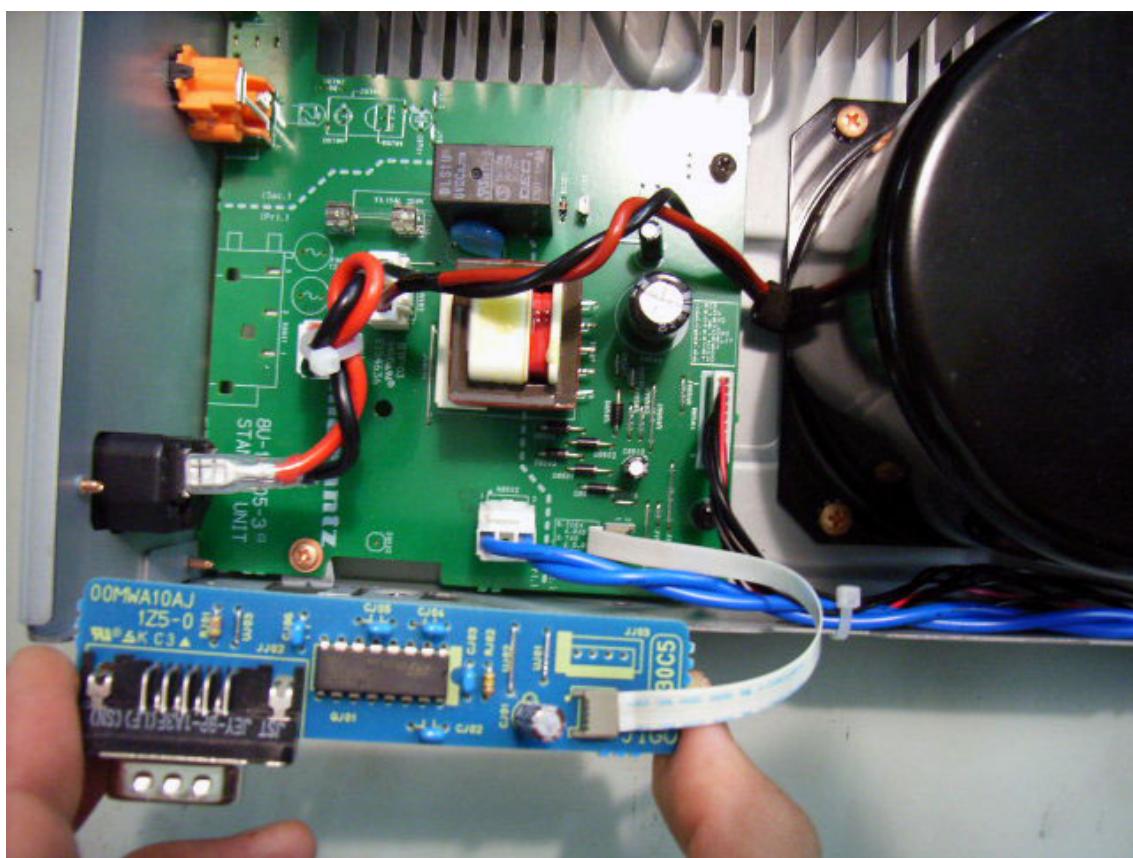
C : Empty Flash ROM (Without software). You should write the software on the microprocessor or flash ROM. Refer to "Update procedure" or "writing procedure", when you write the software.

Necessary Equipment

- Windows PC (OS: Windows 2000 or Windows XP) with Serial port.
- RS-232C Cable straight type (9 Pin female - 9 Pin female)
- Connection JIG (90M-PM11S1JIG)
- Writing Tool and some files (FlashProg.exe, etc... in TM86FH47pass folder)
- Writing data (PM6004_xxxx.h16)

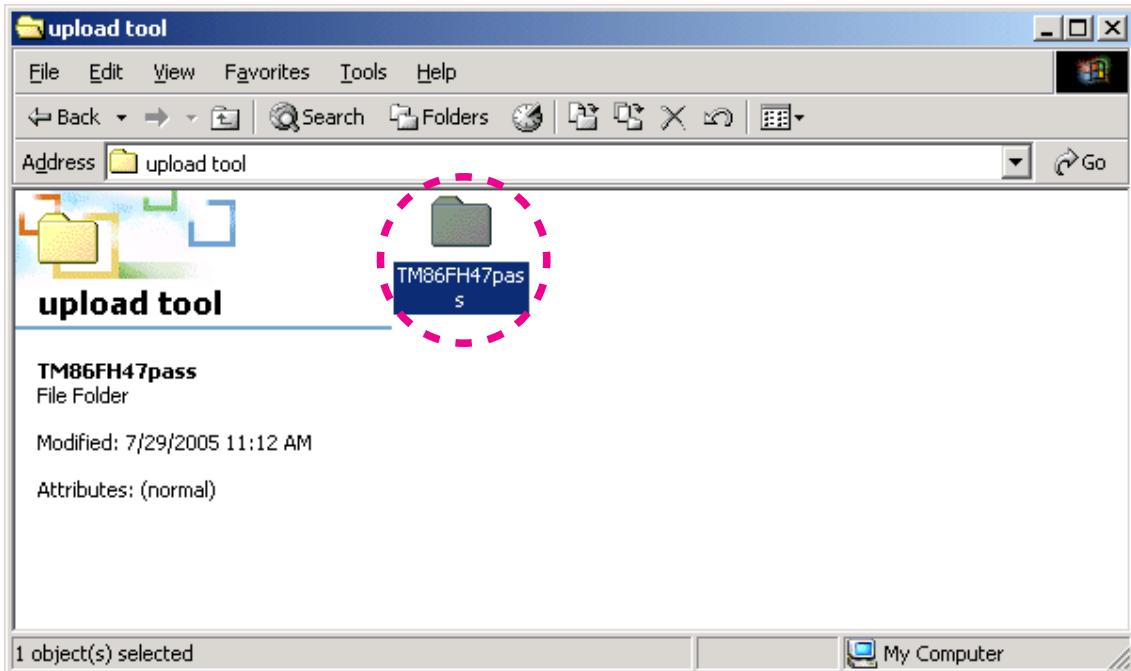
WRITING PROCEDURE

- (1) Disconnect the mains cord from the unit.
- (2) Connect RS-232C on the connection JIG and Serial Port of windows PC with RS-232C cable.
- (3) Connect FPC (upside contact) to the rear panel of the unit from connection JIG.

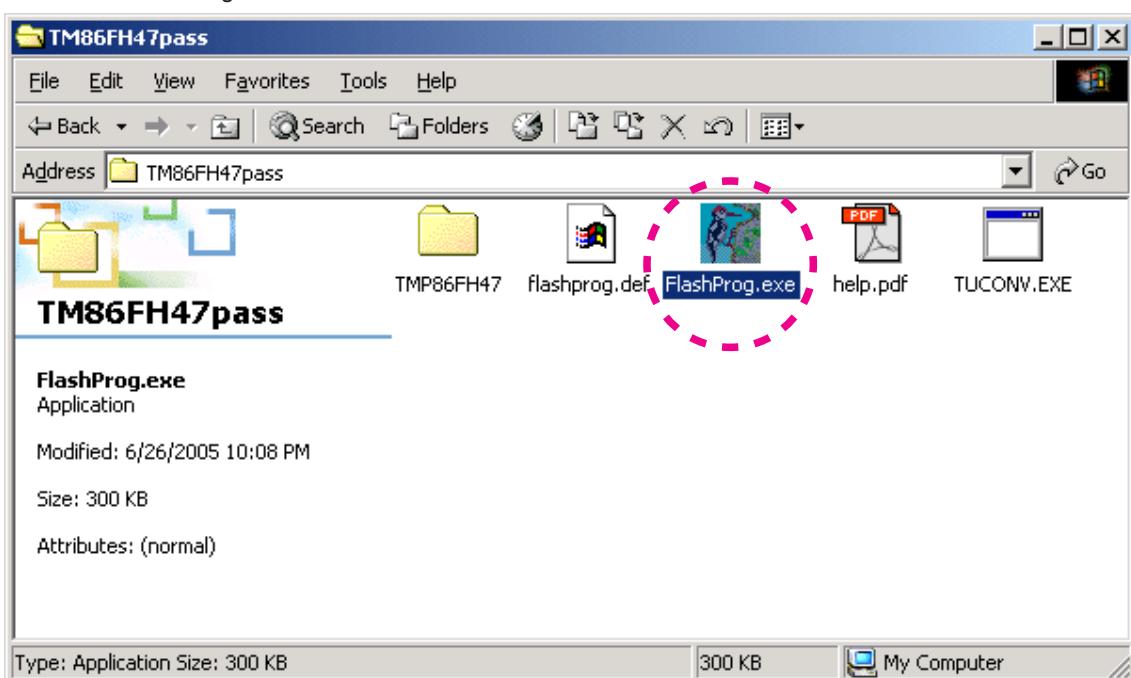


- (4) Reconnect the mains cord to the unit.
- (5) Put the "TM86FH47pass" folder into anywhere on your PC's hard disc.

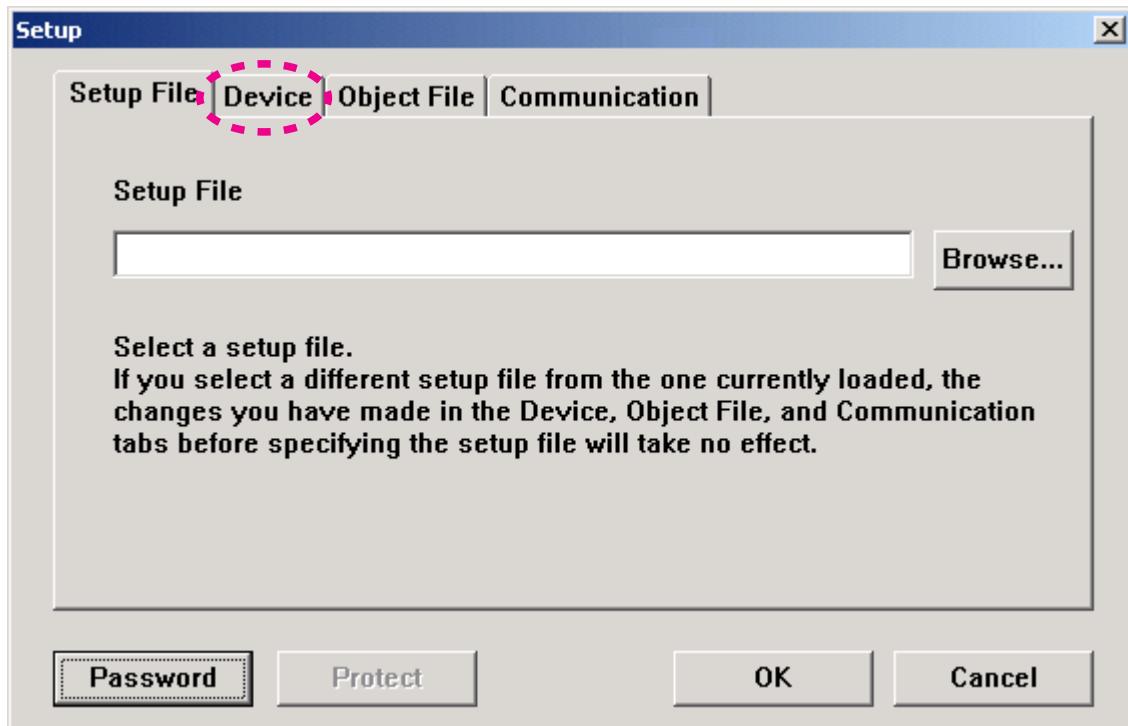
(6) Double click the TM86FH47pass folder.



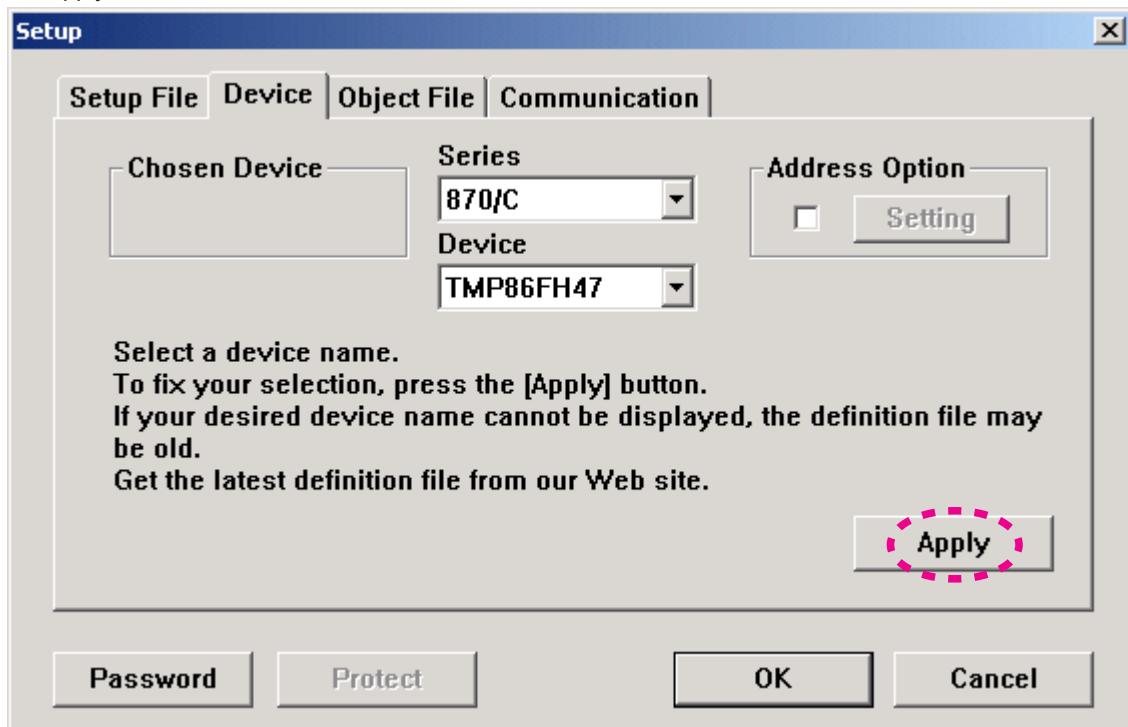
(7) Double click FlashProg.exe.



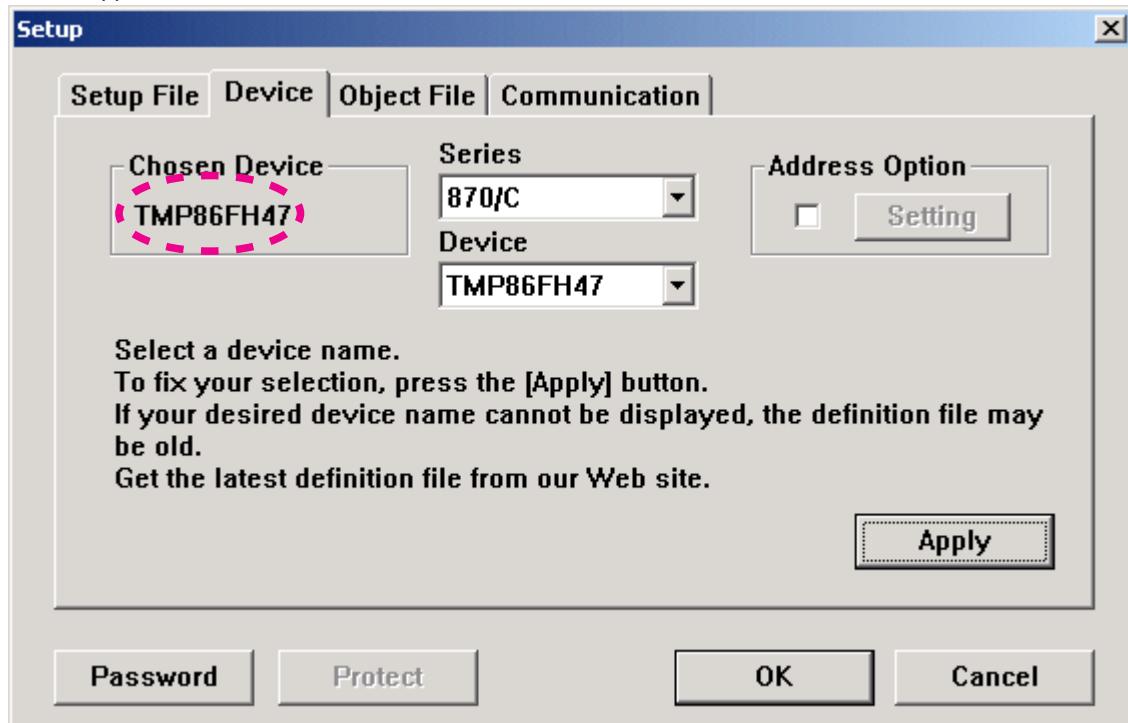
(8) Click Device tab.



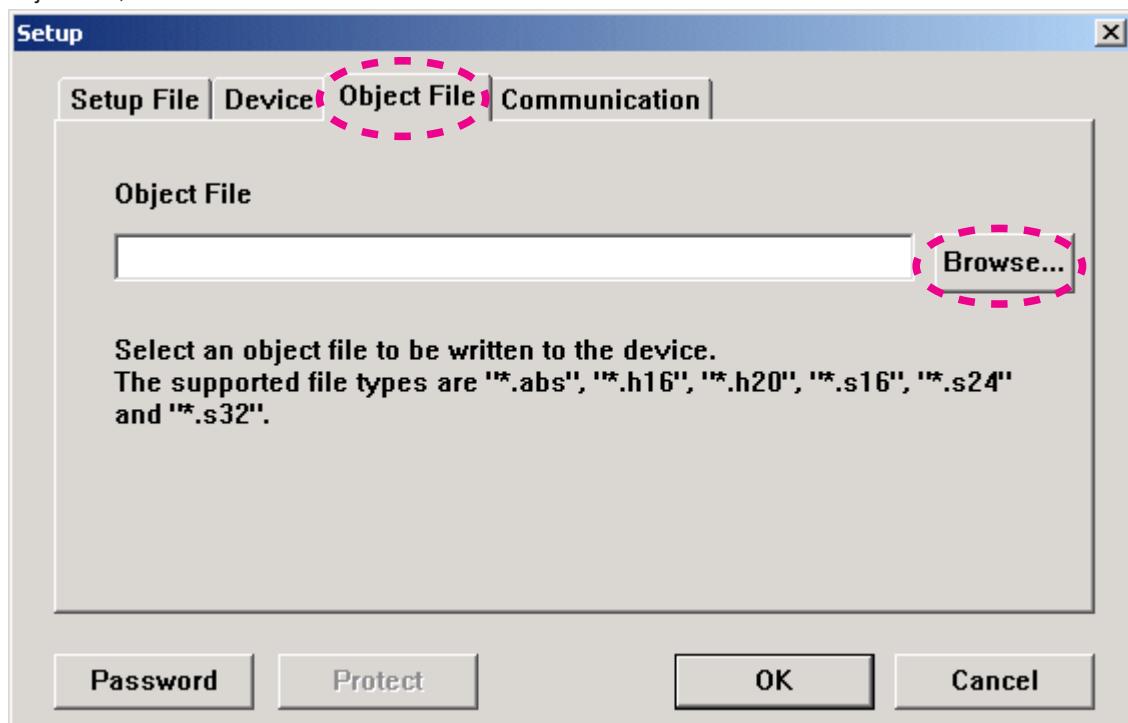
(9) Click Apply.



(10) TMP86FH47 appear in Chosen Device.

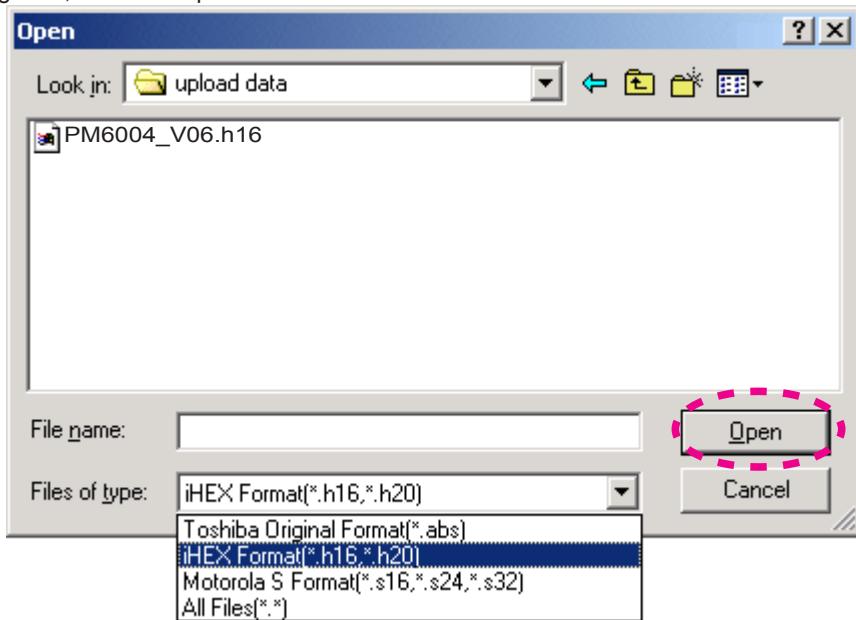


(11) Click Object File, and click Browse...

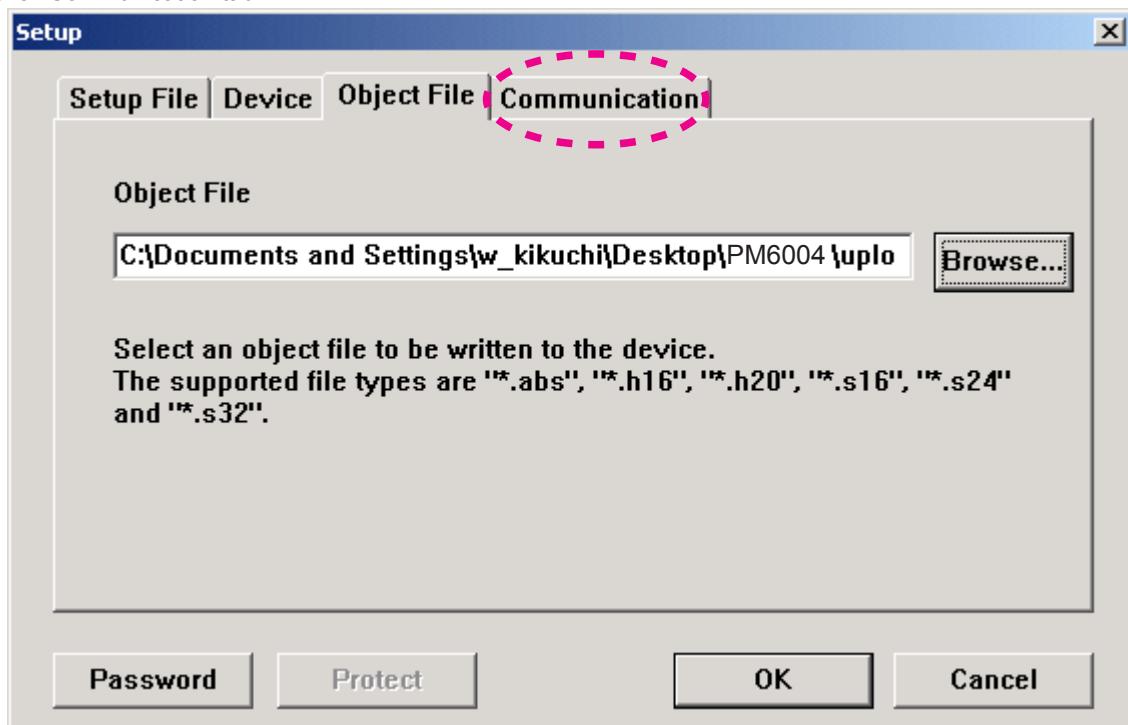


(12) Choose iHEX Format[*.h16, *.h20] in Files of type.

Choose writing data, and click Open.



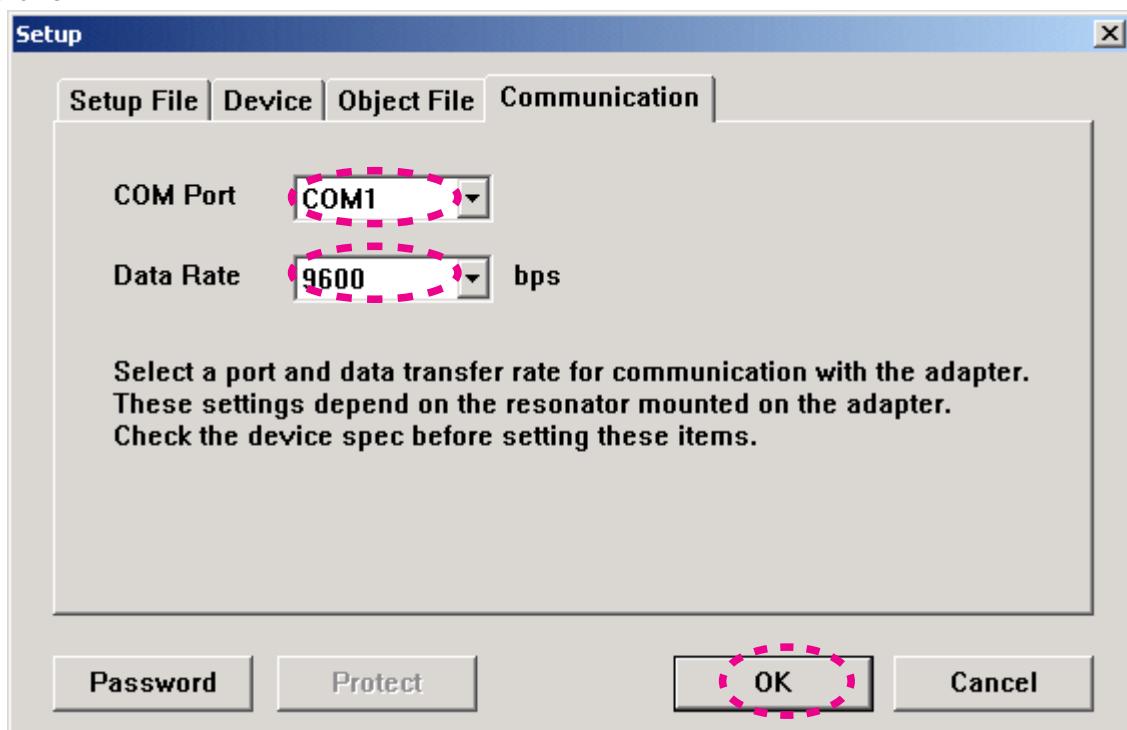
(13) Click Communication tab.



(14) Choose COM port number in COM port.

Choose 9600 in Data Rate.

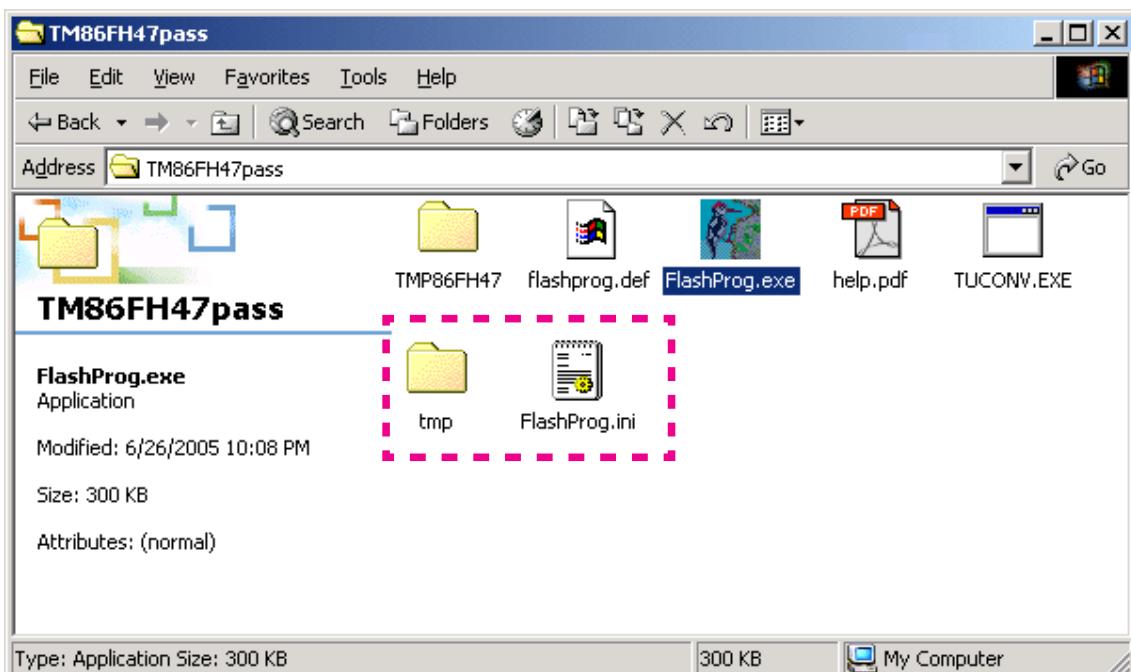
Click OK.



(15) When Setup window is closed, the tmp folder and FlashProg.ini file are created simultaneously.

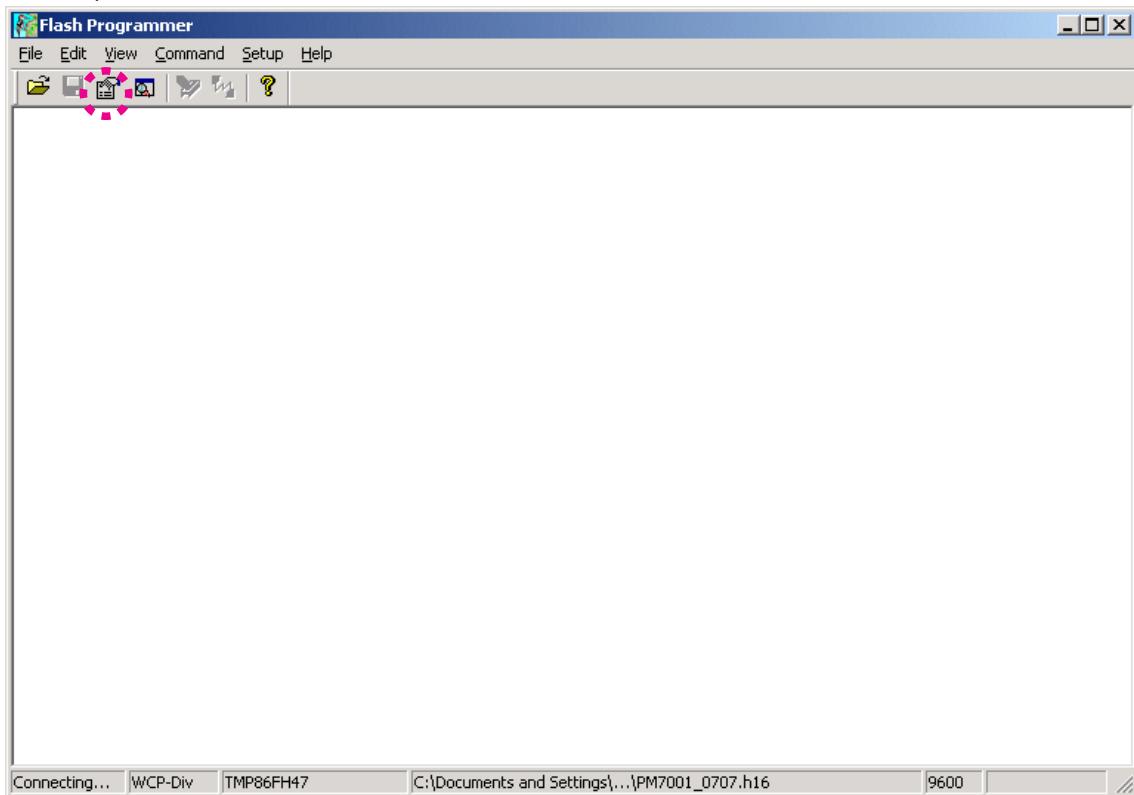
Click Yes.

NOTE : These are the original set-up configuration files for that PC. They do not operate, if these files moved to another PC. When you make it operate with other PC, delete the tmp folder and the FlashProg.ini file and redo a setup.

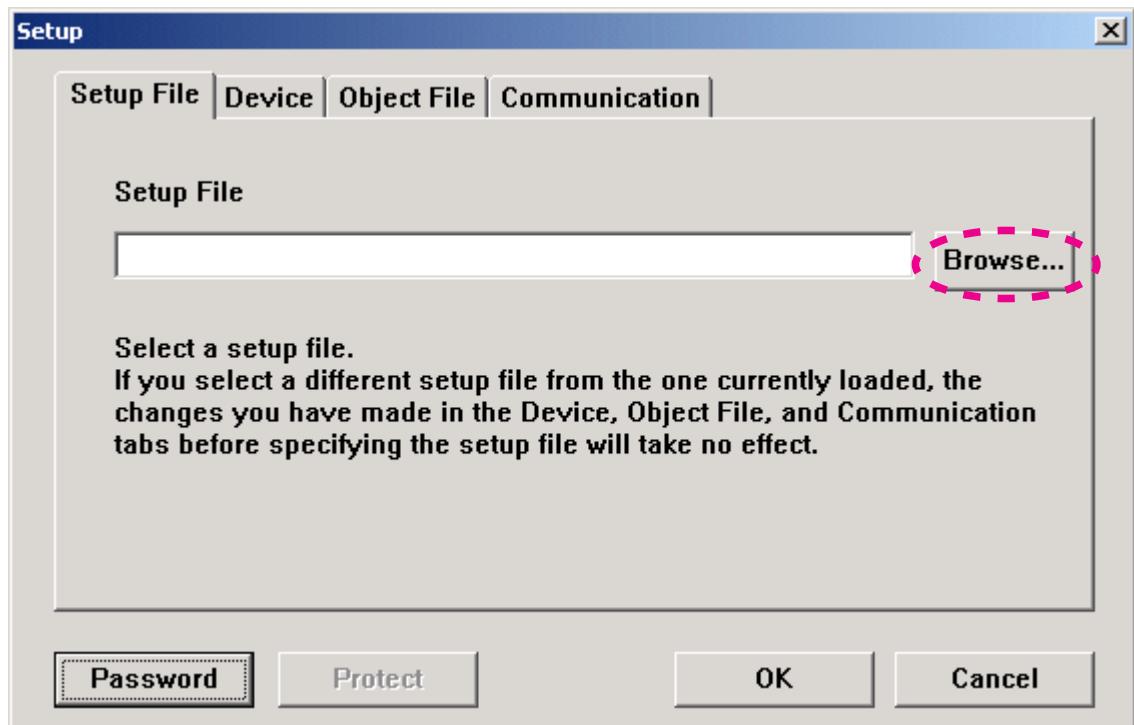


(16) The Flash Programmer is launched.

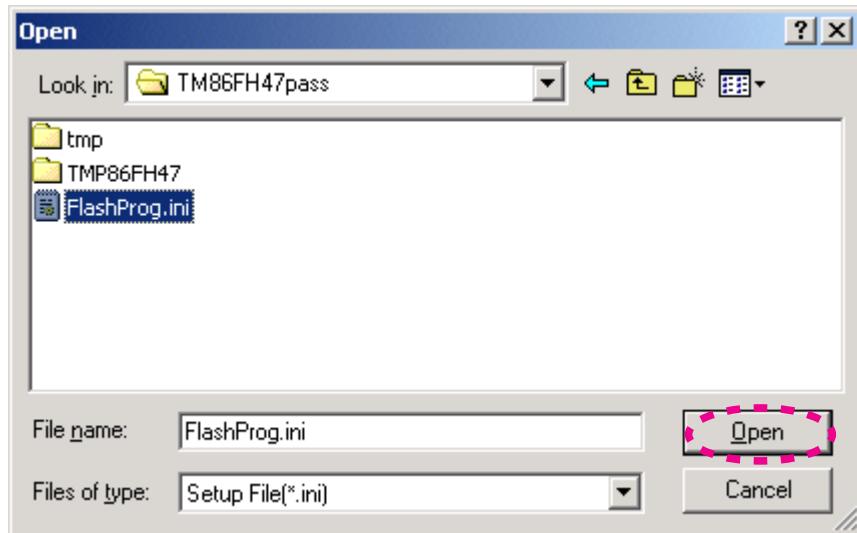
Click setup icon.



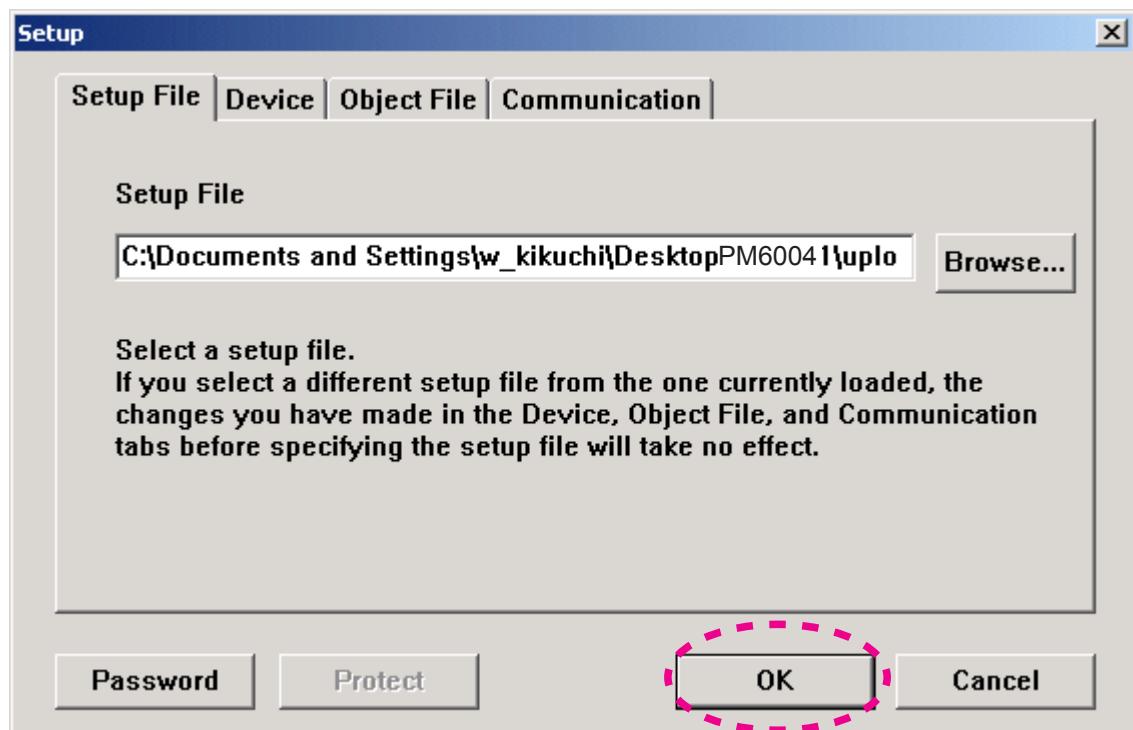
(17) Click Browse....



(18) Choose FlashProg.ini in TM86FH47pass folder, and click Open.

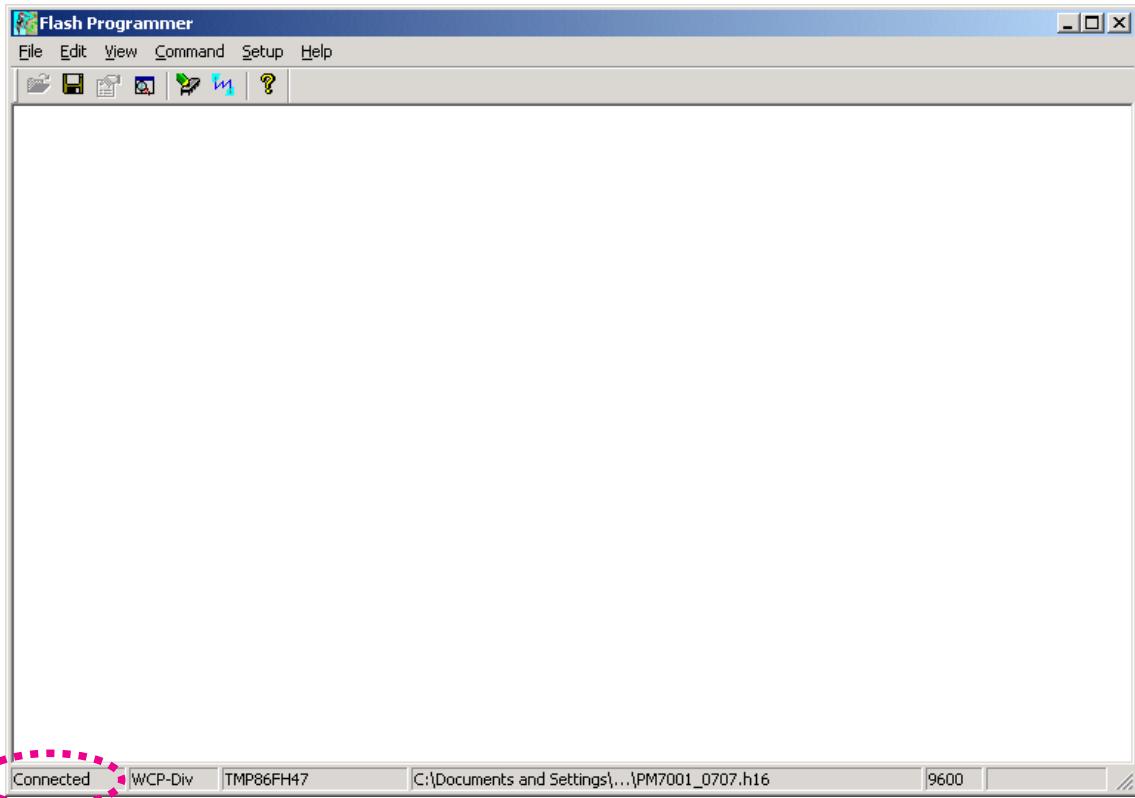


(19) Click OK.

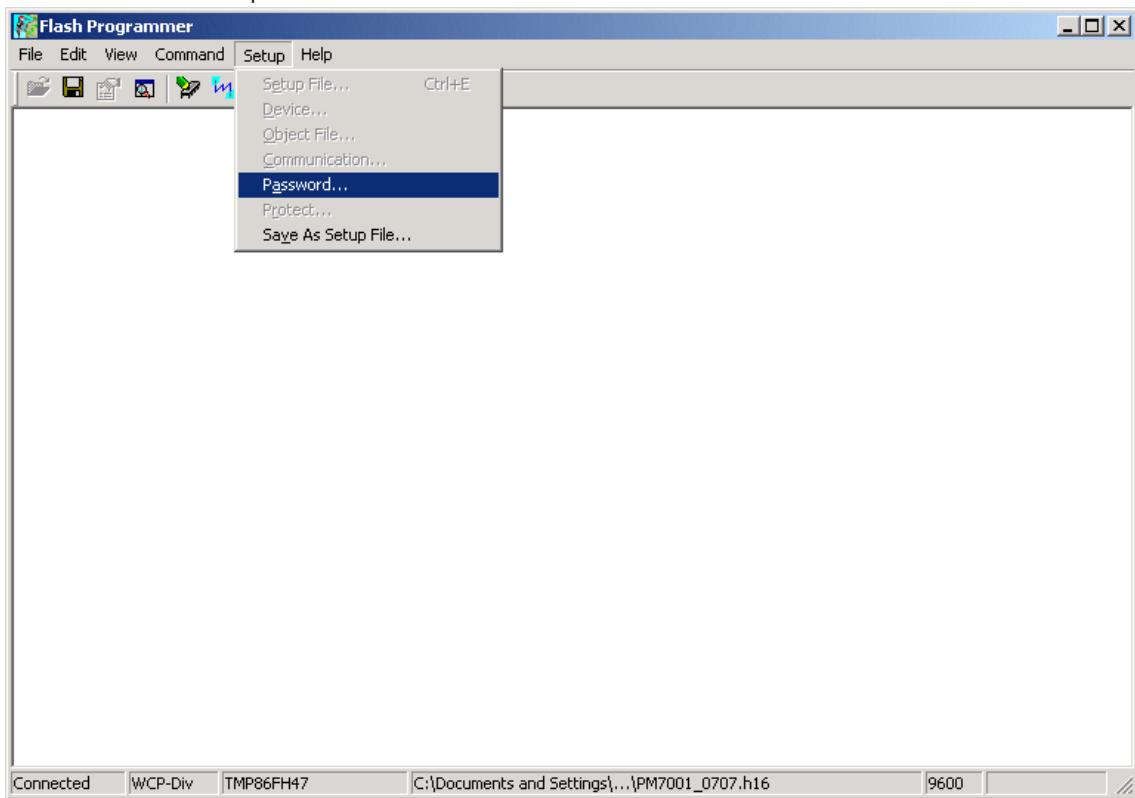


(20) Press the POWER ON/OFF button, and turn on the unit.

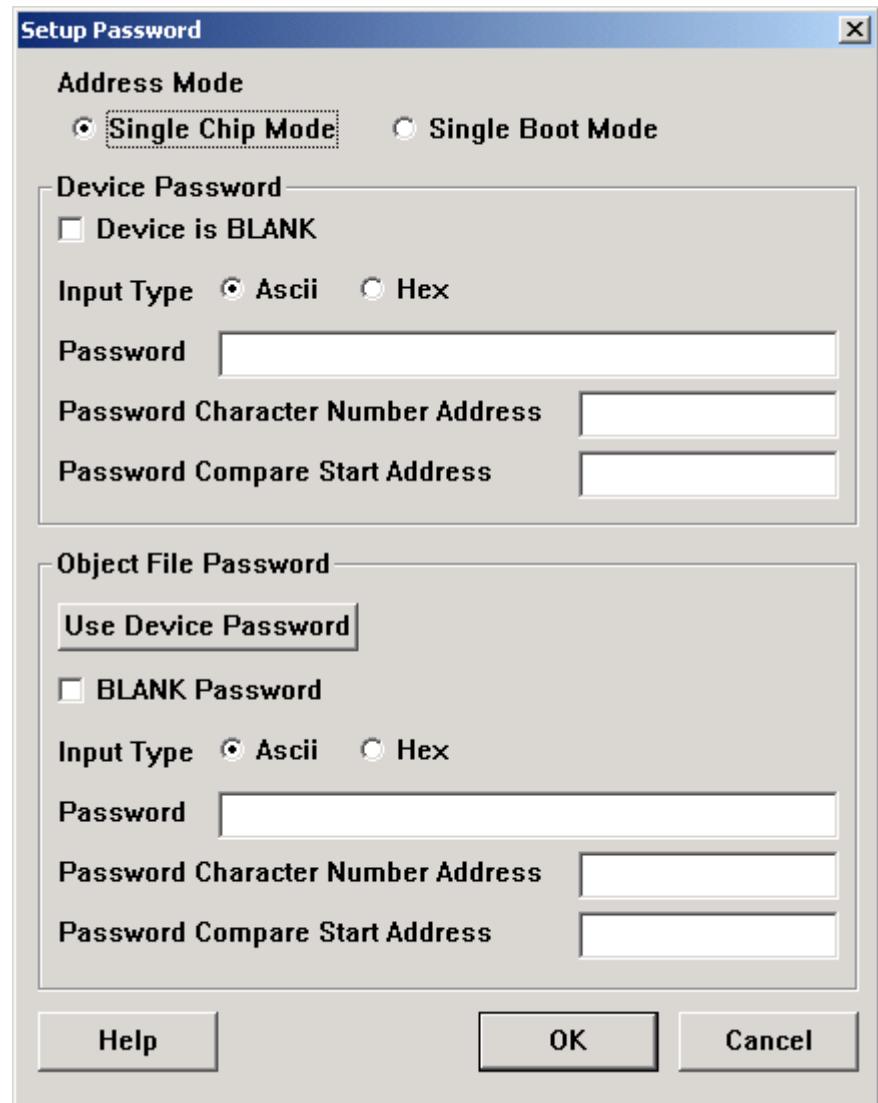
Status indication at lower left in Flash Programming window is changed to "Connected" from "Connecting".
When it did not change, check the connection of FPC or RS-232C cable.



(21) Select Password in Setup.



(22) Setup Password opens.



- When writing in a blank microprocessor (Refer to next page).
- When writing (update) in the already written-in microprocessor (Refer to 25 page).

When writing in a blank microprocessor

Check Single Boot Mode in Address Mode.

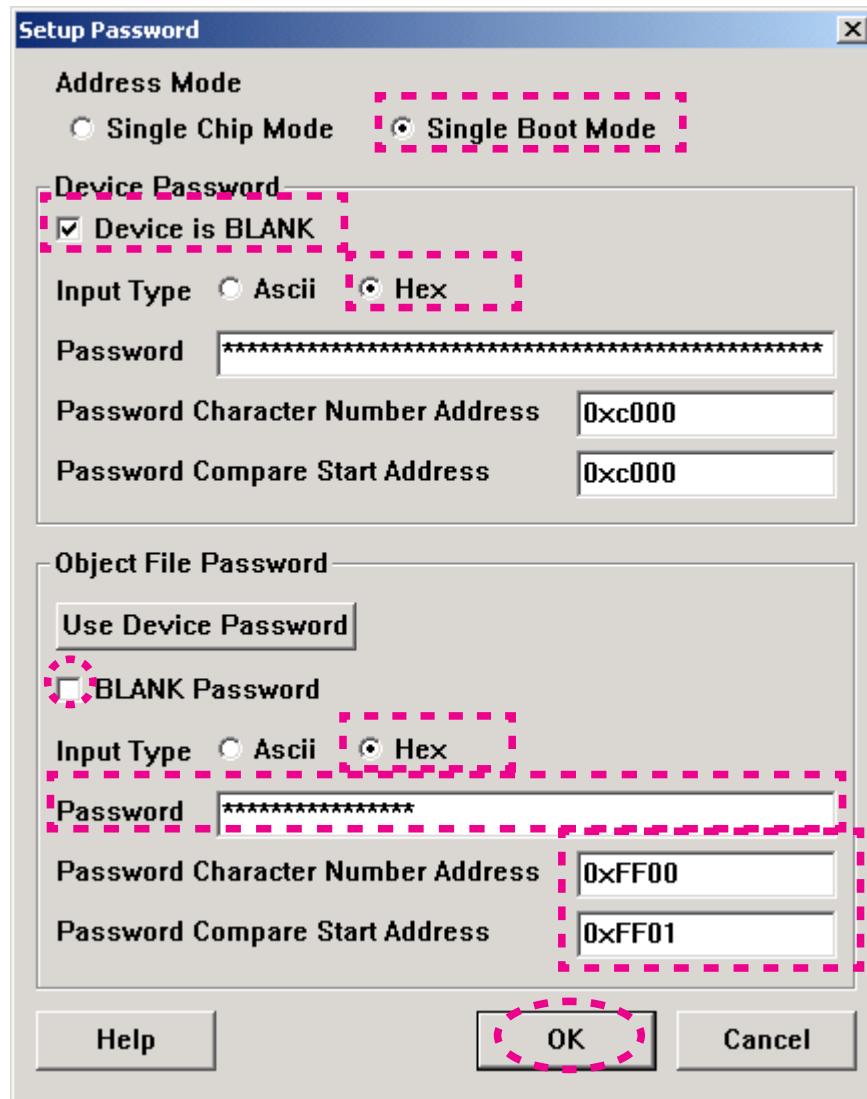
Setting in Device Password

- Check Device is BLANK.
- Check Hex in input type.
- Since they are inputted automatically, please do not change text box of "Password", "Password Character Number Address" and "Password Compare Start Address".

Setting in Object File Password

- Do not check BLANK password.
- Check Hex in Input Type.
- Type 0102030405060708 into Password.
- Type 0xFF00 into Password Character Number Address.
- Type 0xFF01 into Password Compare Start Address.

Click OK.



When writing in the already written-in microcomputer (update)

Check Single Boot Mode in Address Mode.

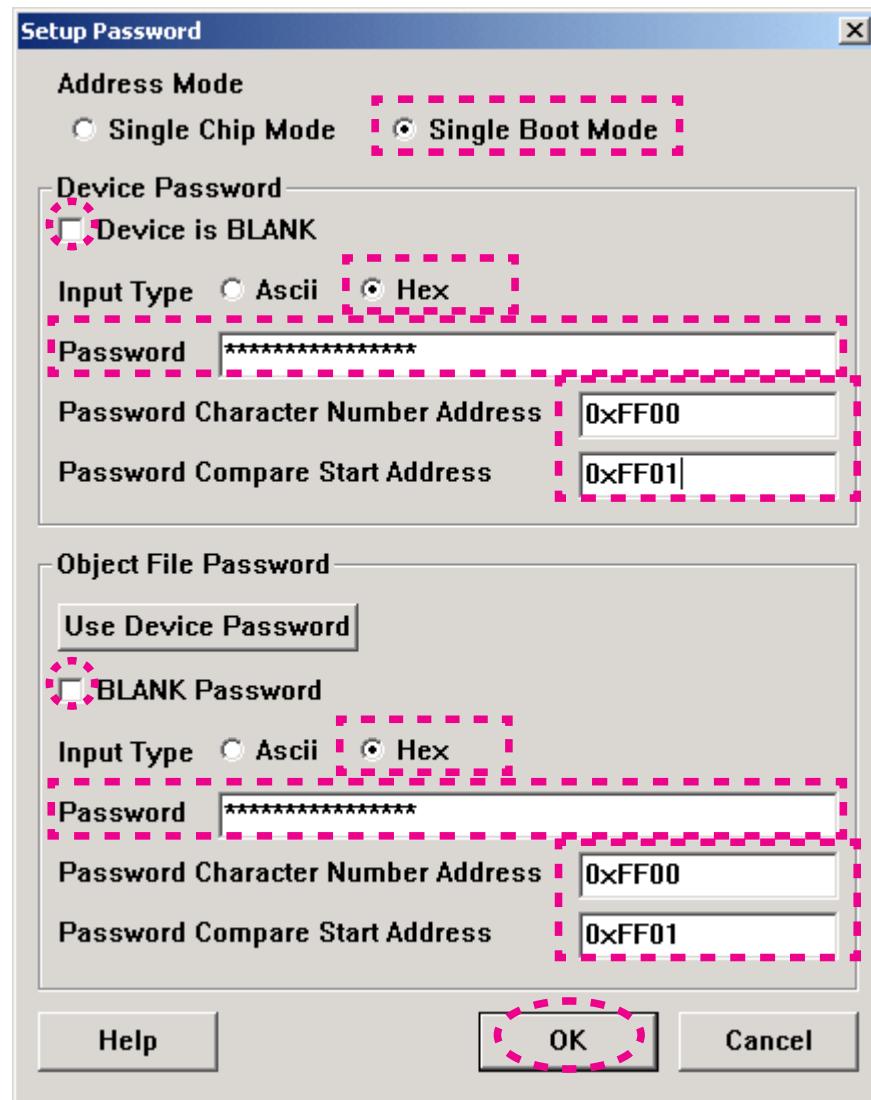
Setting in Device Password

- Check Device is BLANK.
- Check Hex in input type.
- Type 0102030405060708 into Password.
- Type 0xFF00 into Password Character Number Address.
- Type 0xFF01 into Password Compare Start Address.

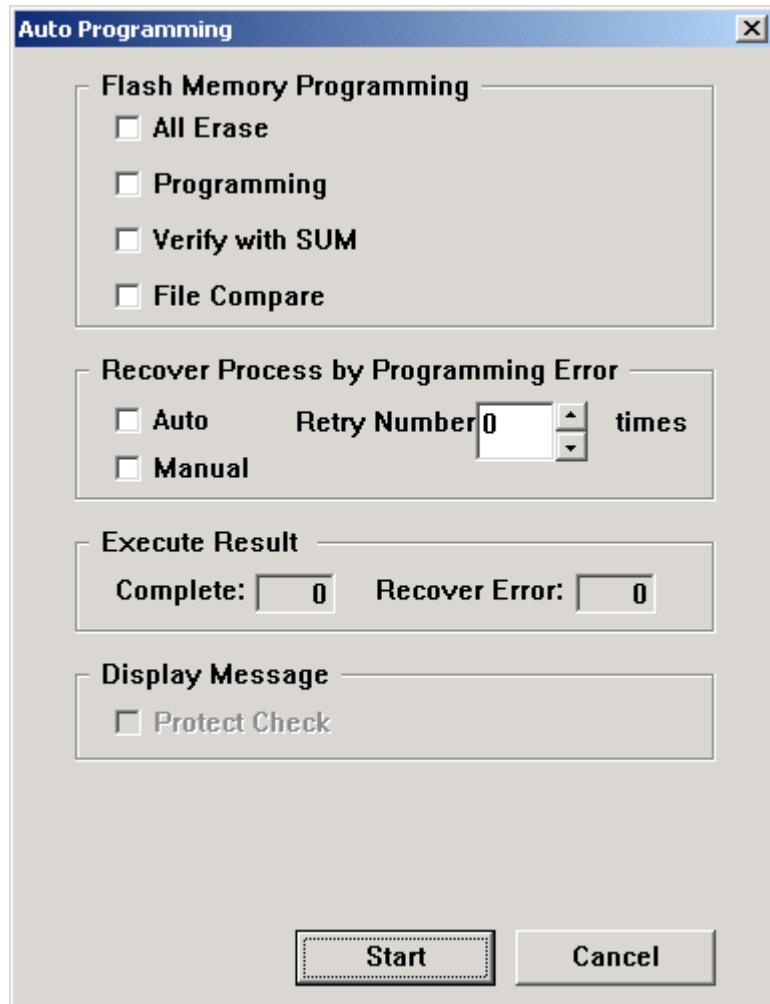
Setting in Object File Password

- Do not check BLANK password.
- Check Hex in Input Type.
- Type 0102030405060708 into Password.
- Type 0xFF00 into Password Character Number Address.
- Type 0xFF01 into Password Compare Start Address.

Click OK.



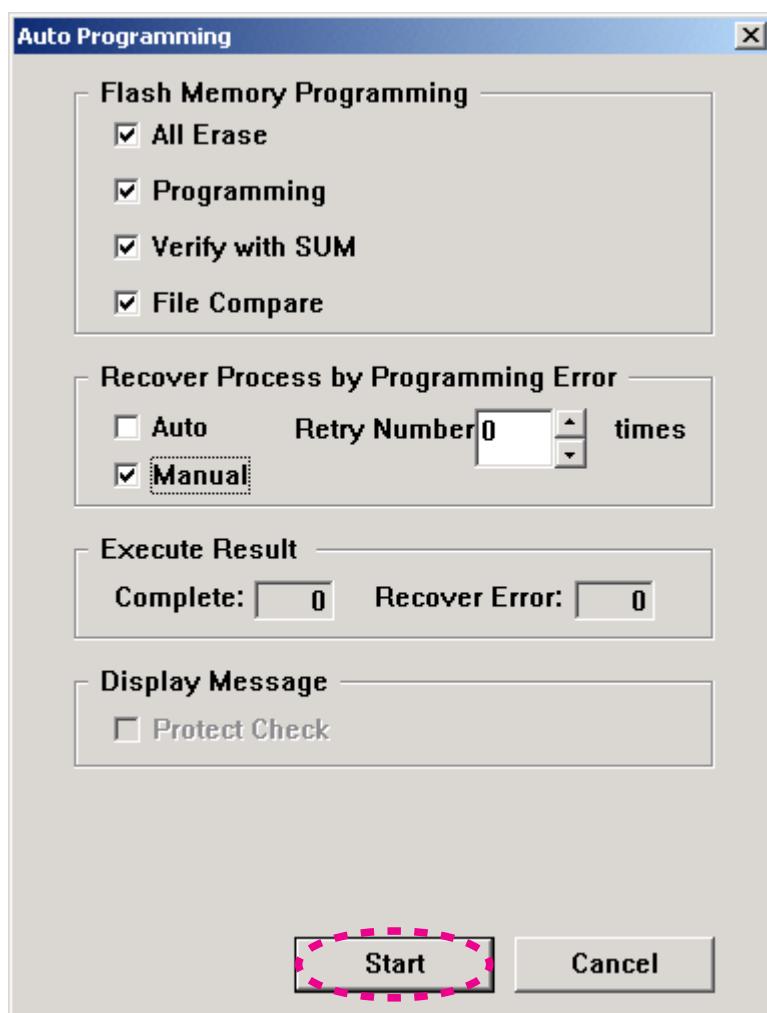
(23) Auto Programming opens.



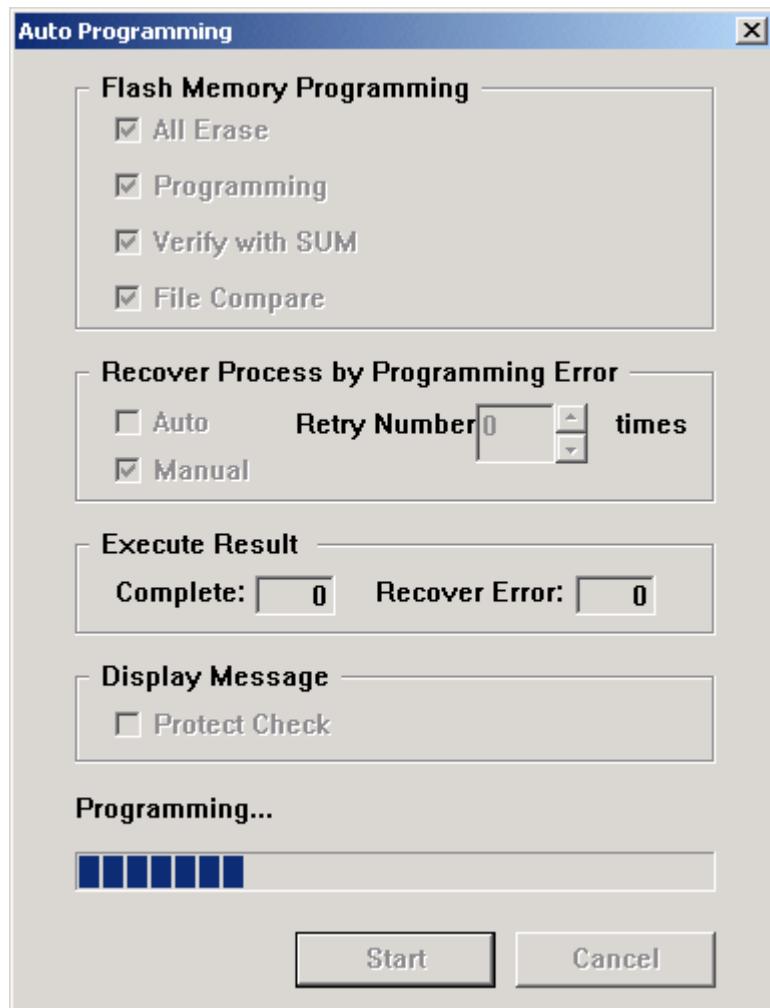
(24) Check All Erase, Programming, Verify with SUM and File Compare in Flash Memory Programming.

Check Manual in Recover Process by Programming Error.

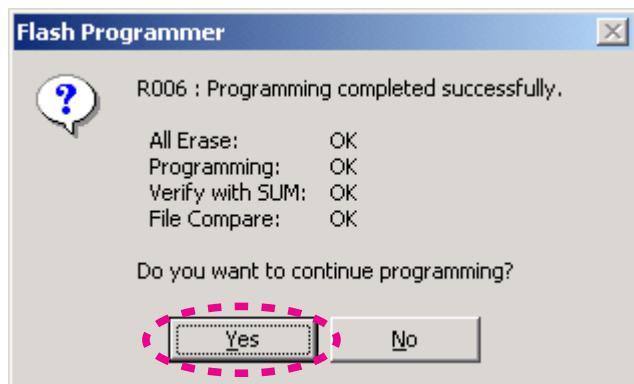
Click Start.



(25) Writing data is written into the microprocessor (U1001).



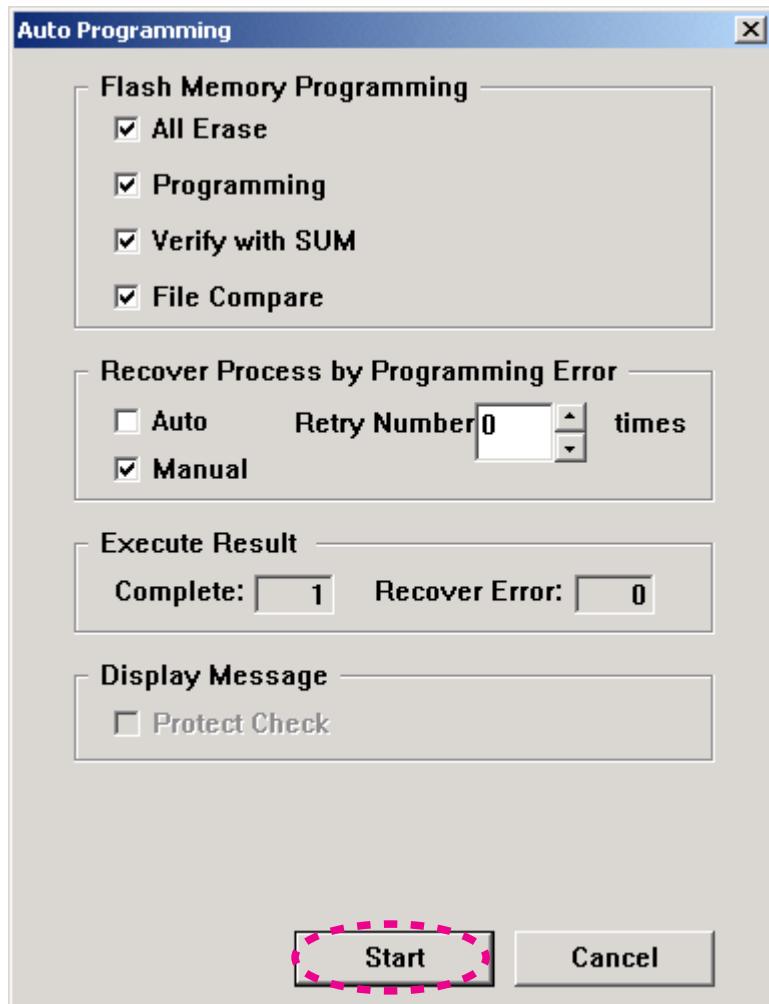
(26) Click Yes, when writing is successful.



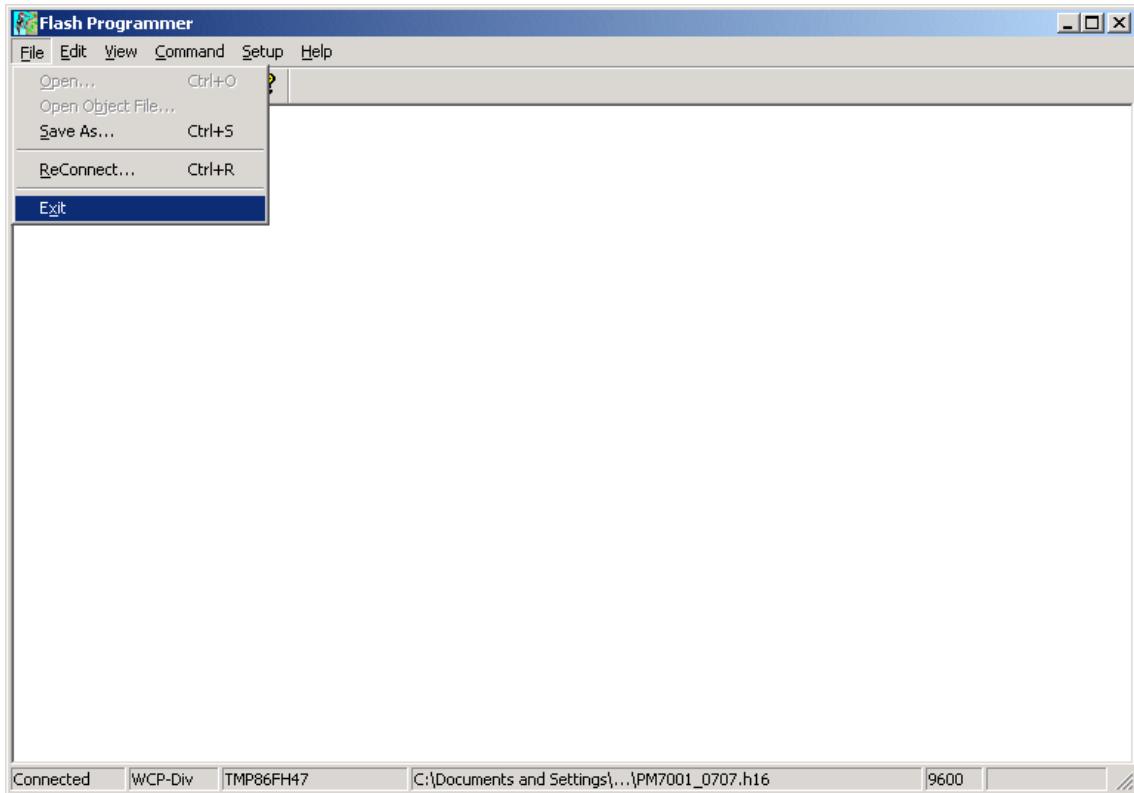
(27) Click Cancel.



(28) Click Cancel.



(29) Select the Exit in File, and finish.



(30) Press the POWER ON/OFF button, and turn off the unit.

Disconnect each cable.

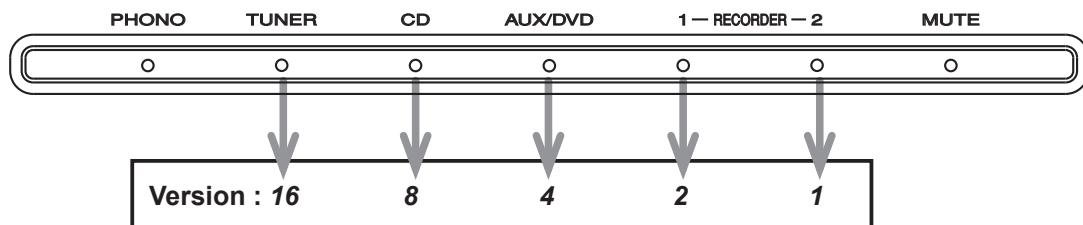
(31) Check the software version.

Refer to 31 "SERVICE MODE".

SERVICE MODE

Microprocessor (U1001) version chseck

- (1) Press the POWER button with pressing the SOURCE DIRECT button on the unit.
- (2) 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 RECORDER-2 [1], Version : 1
Light up RECORDER-2 [1] and AUX/DVD [4], Version : 5
Light up RECORDER-2 [1] and CD [8], Version : 9

- (3) Each LED light up then all LED light up.
- (4) Turn off the power to quit Service Mode. (The unit to the default status)

ADJUSTMENT

IDLING CURRENT ALIGNMENT

Adjusting Procedure

Set the power voltage to rated voltage for this adjustment.

- (1) Adjust the Idling Current with the variable resistor V6001 and V6002 on the PWB 8U-110004-1.
- (2) Turn off the power.
- (3) "+" of Connect Digital Voltage is connected to the No. 1 pin and connected "-" to No. 3 pin of N6003.
- (4) "+" of Connect Digital Voltage is connected to the No. 1 pin and connected "-" to No. 3 pin of N6004.
- (5) Before turning on the power, V6001 and V6002 have been counter clockwise turned with the adjustment driver.
- (6) Turn on the power, VOLUME is set as $-\infty$.
- (7) After 2 minutes.

With seeing the digital voltage meter turn the variable resistor clockwise slowly to adjust the idling current.

Idling adjustment with V6001 (V6002).

- Turn V6001 (V6002) clockwise to increase the idling current.
- The adjustment value of idling current is 10 mV(22.5 mA) \pm 0.5 mV(1.1 mA) each.

- (8) After 6 minutes.

Repeat the same procedure as 7.

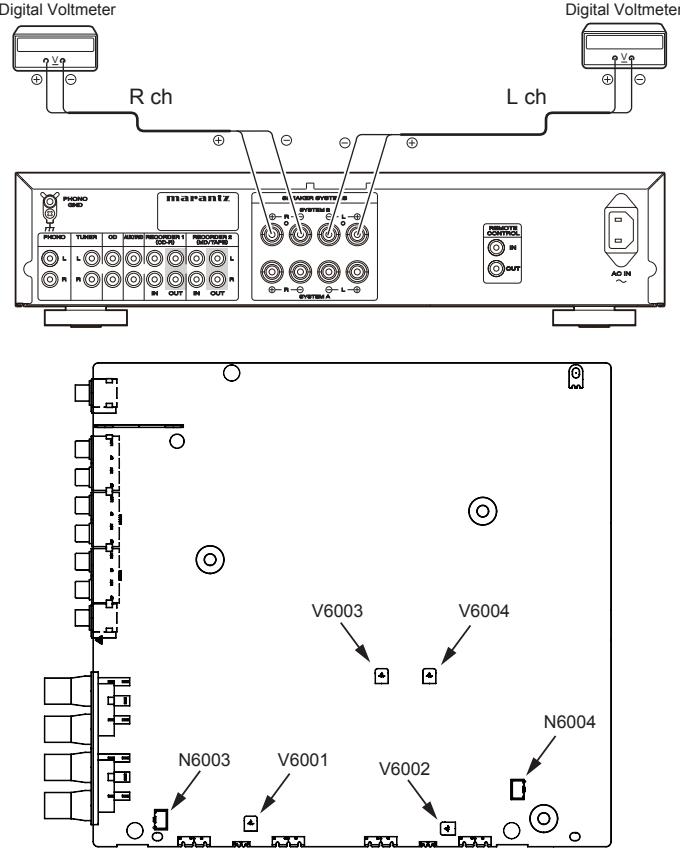
- The adjustment value of idling current is 20 mV(45 mA) \pm 0.5 mV(1.1 mA) each.

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 20 mV (45 mA) of setting value in about 30 minutes after turn on the power.

DC OFFSET VOLTAGE ADJUSTMENT



Adjusting Procedure

DC Offset Voltage Adjustment

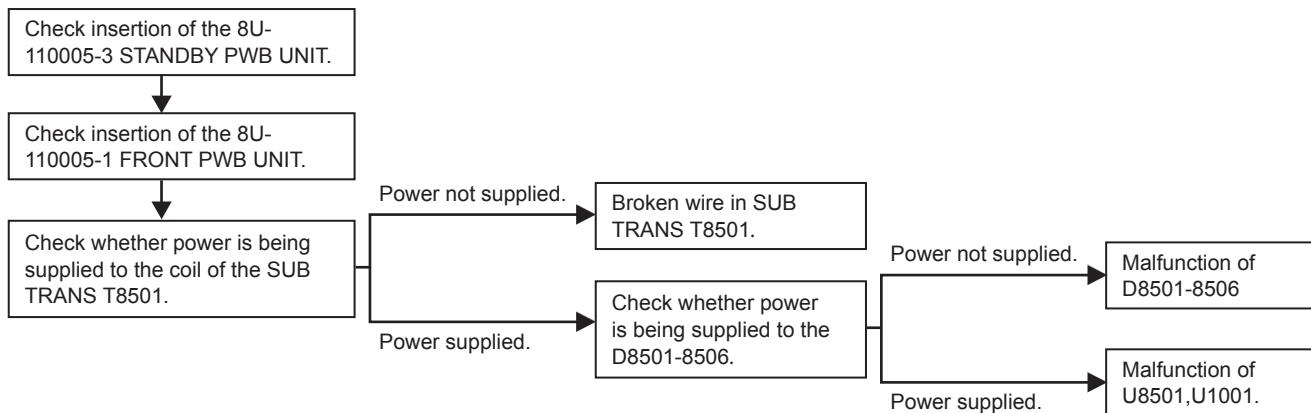
- (1) Before turning on the power, Insert Digital Voltage Meter between the SPEAKERS SYSTEM A (L CH) "+" and "-". Insert Digital Voltage Meter between the SPEAKERS SYSTEM A (R CH) "+" and "-".
- (2) Adjust the VOLUME to MIN.
- (3) Turn on the power. Then turn the SPAKERS SW to A.
Adjustment is started immediately after a speaker relay turns on.
- (4) First L CH is adjusted.
The variable resistor V6003 on 8U-110004-1 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 V6004 on 8U-110004-1 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 (V6003 and V6004) 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.

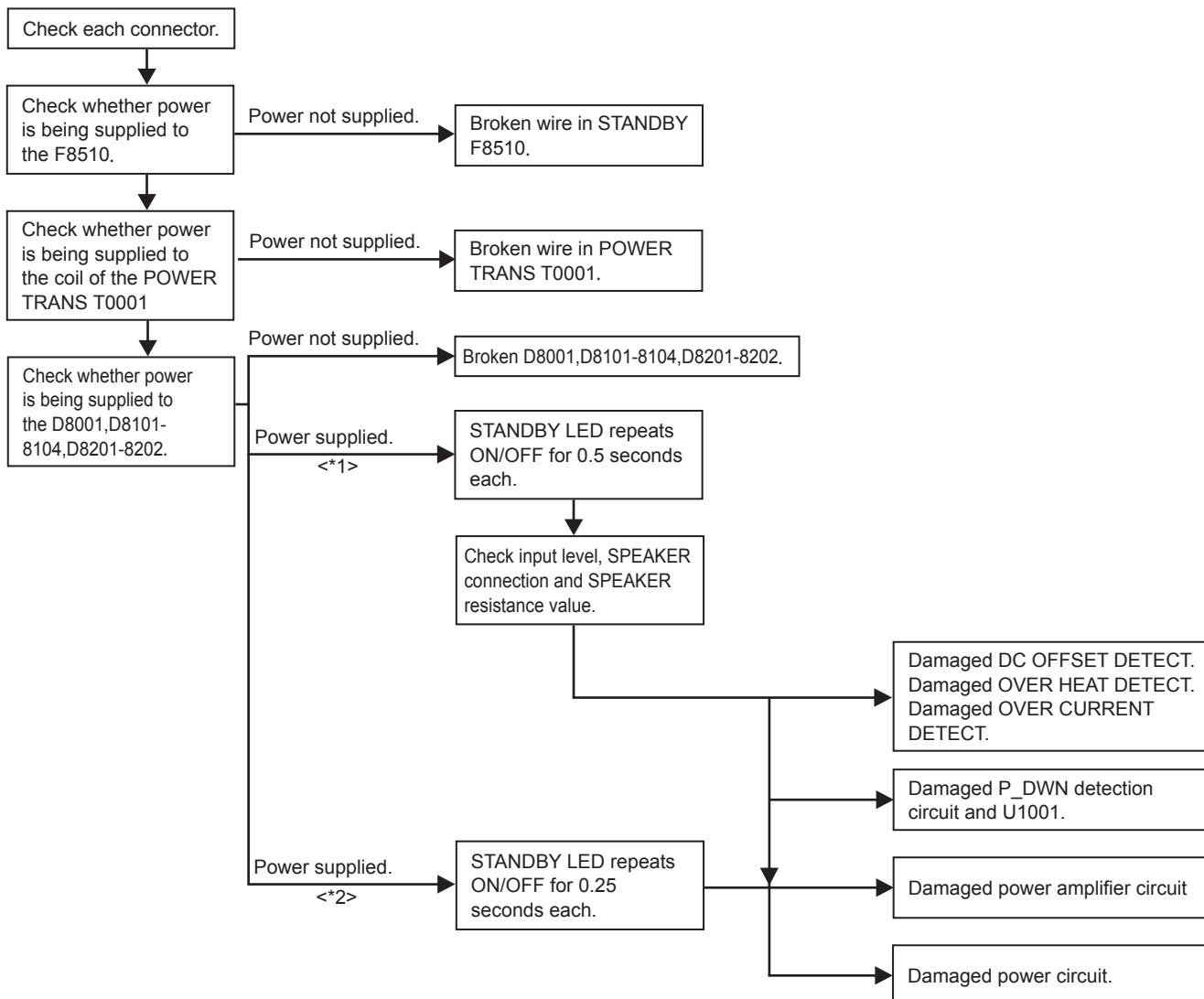
- (6) Although after-adjustment DC offset voltage has some change, Please check that the range of DC offset voltage between L ch (R ch) "+" and L ch (R ch) "-" terminal of SPEAKERS SYSTEM A is "0 mV ± 20 mV". CHART OF FACTORY MODE.

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)

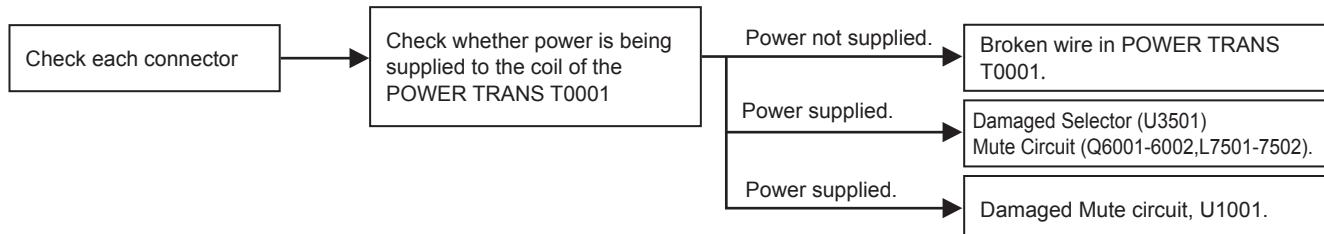


3. STANDBY LED flashes while using unit. (protection circuit is set)



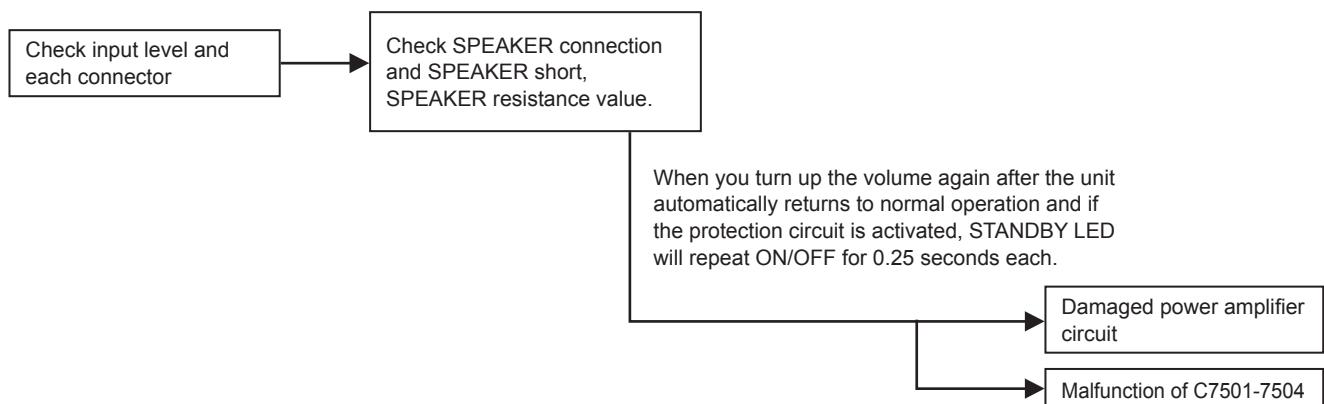
4. The power turned on, but a sound does not output normally. (Both channels)

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



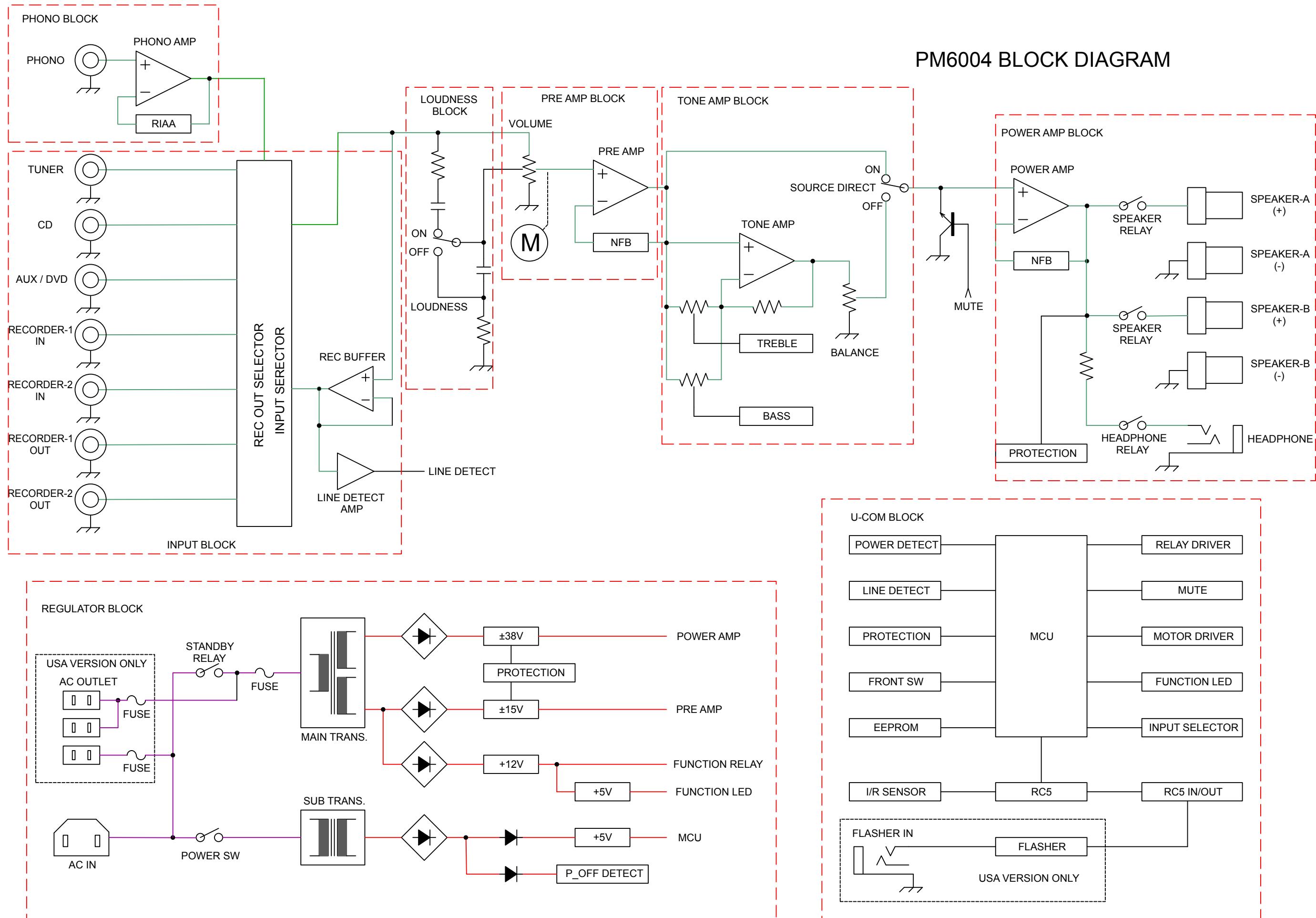
4.2 When the volume is turned up, Mute LED flashes. (protection mode is set)

Repeats ON/OFF for 0.5 second each, and automatically returns to normal operation.

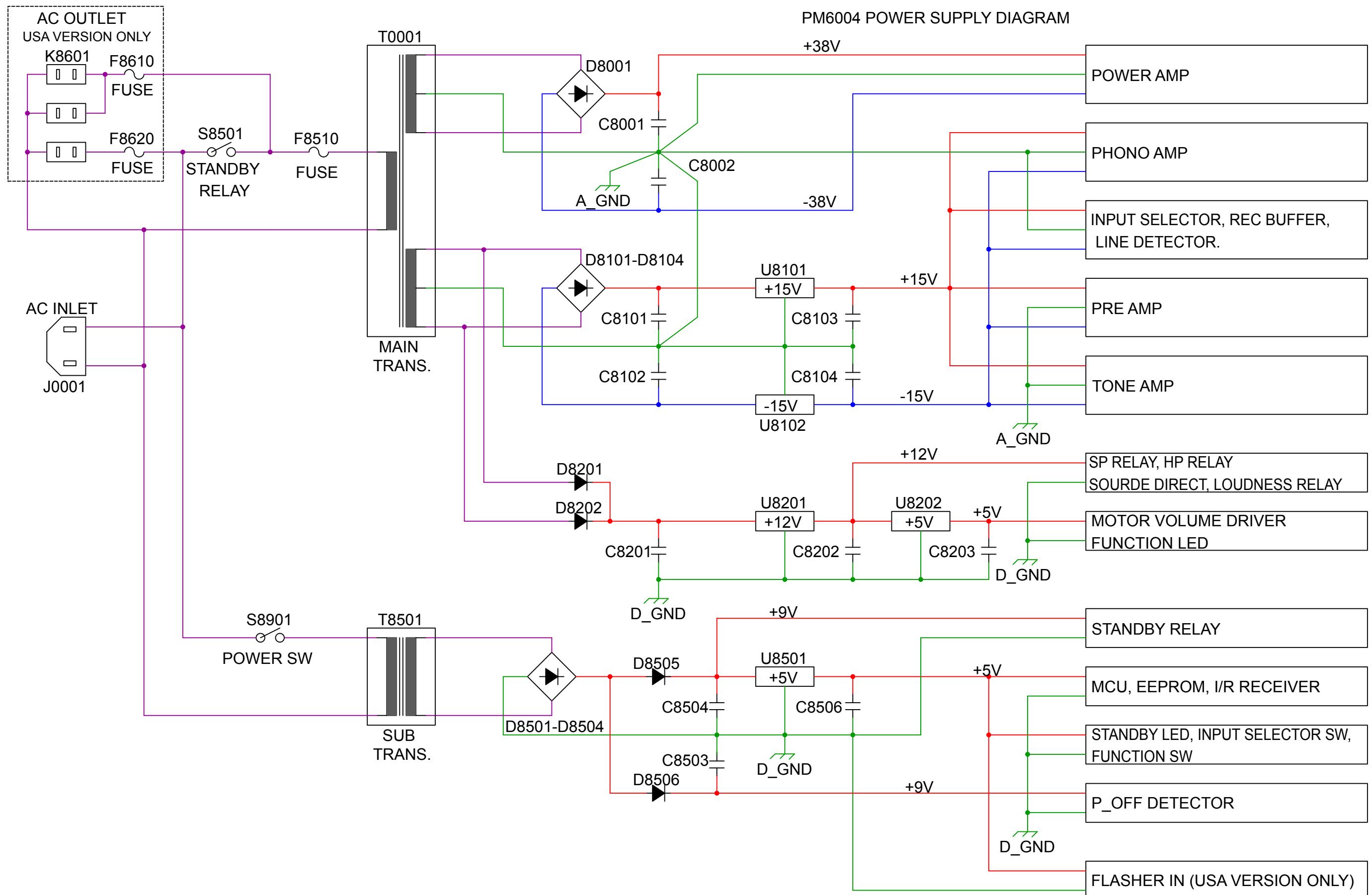


Personal notes:

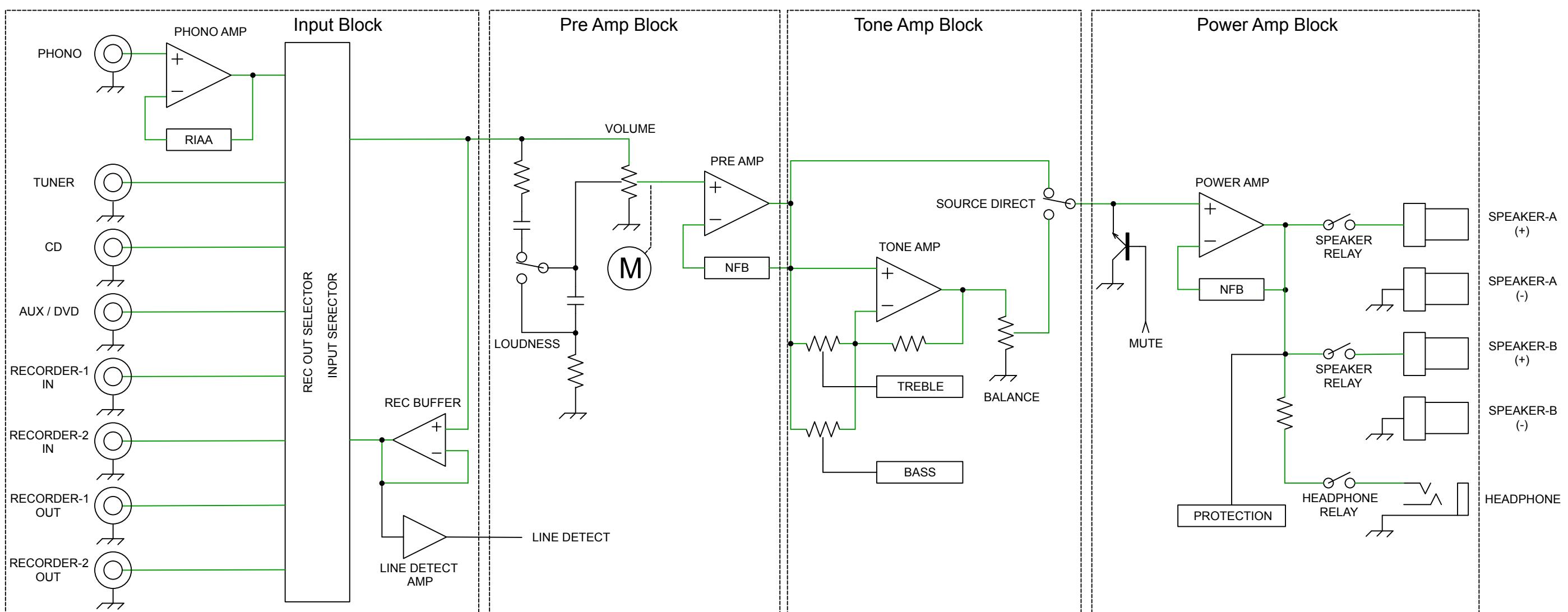
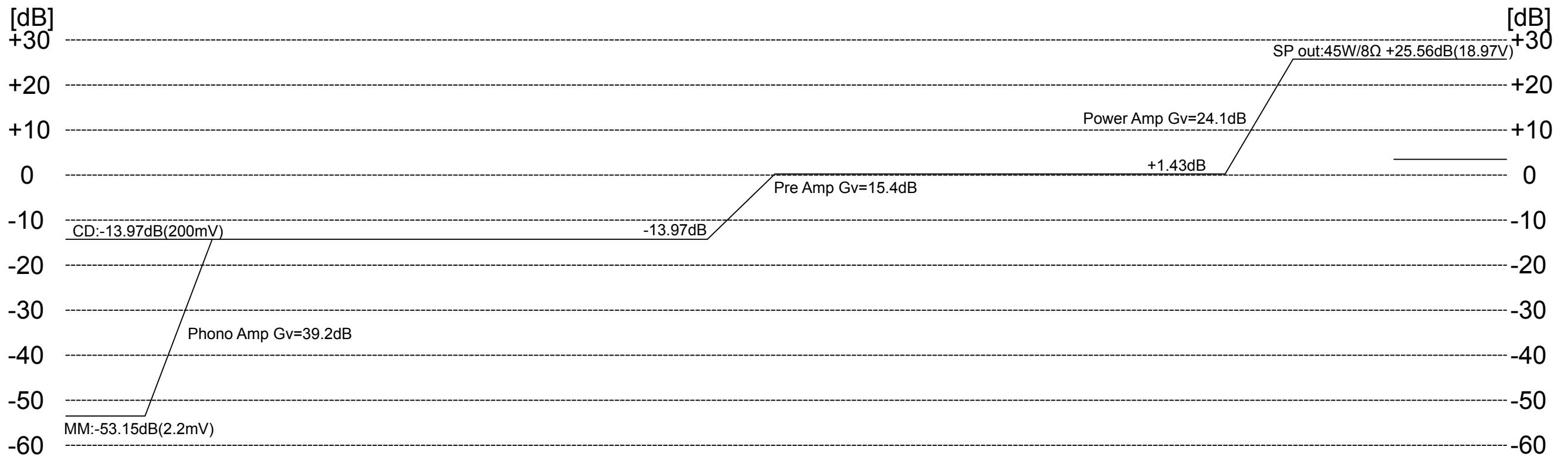
BLOCK DIAGRAM



POWER SUPPLY BLOCK DIAGRAM



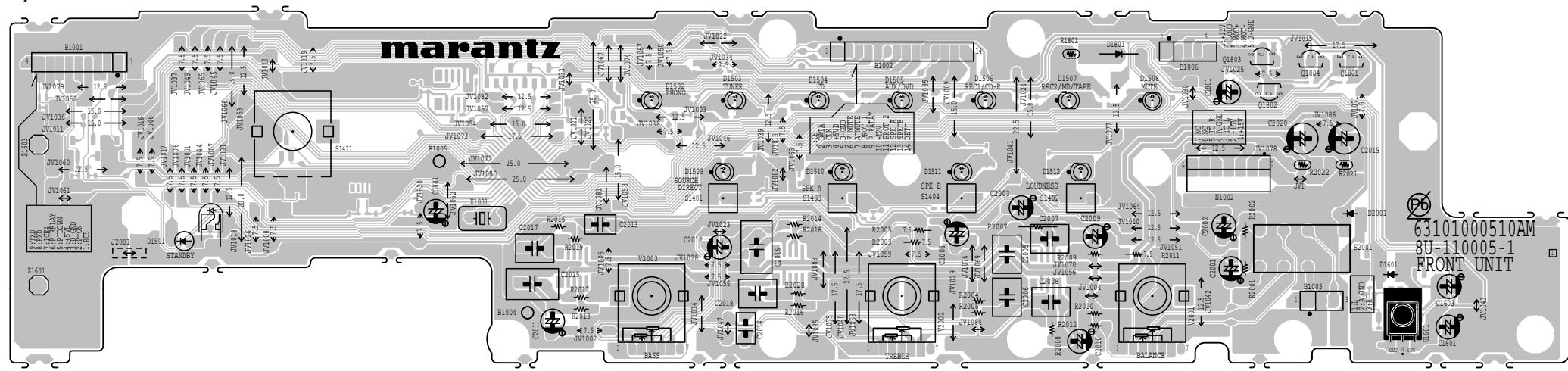
LEVEL DIAGRAM



PRINTED WIRING BOARDS

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

**FRONT
(COMPONENT SIDE)**



A

B

C

D

E

F

G

H

I

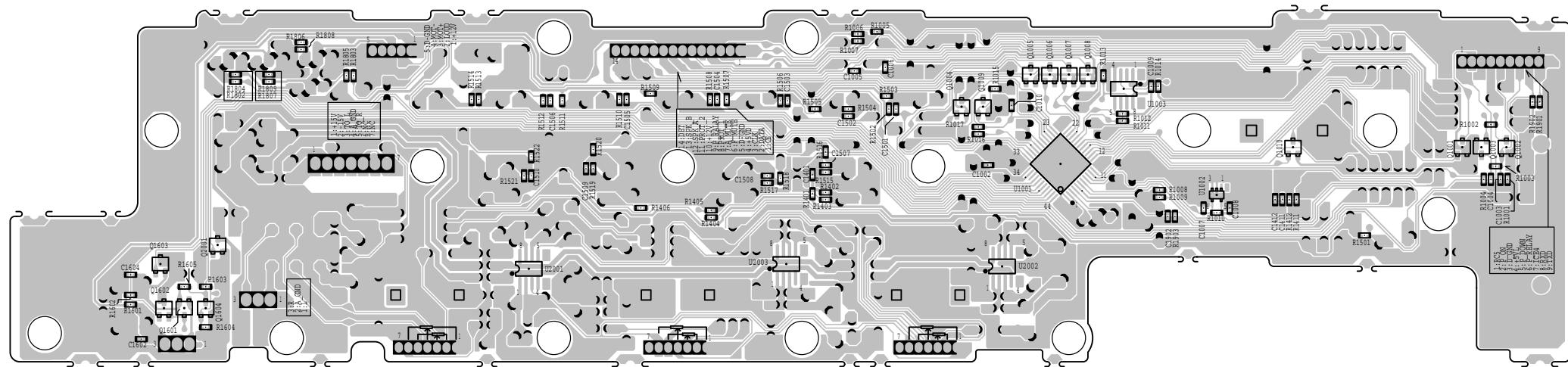
J

K

L

M

**FRONT
(FOIL SIDE)**

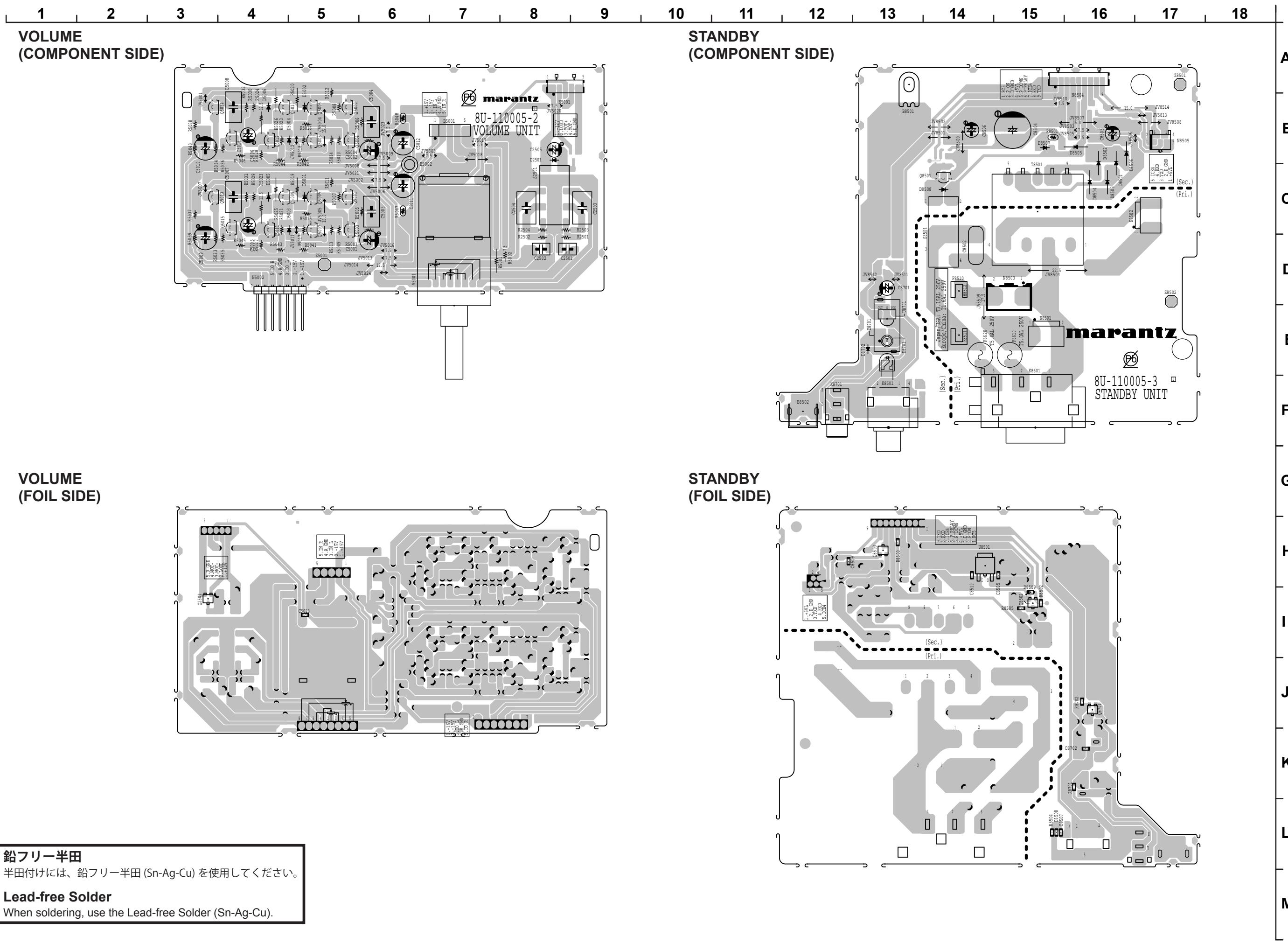


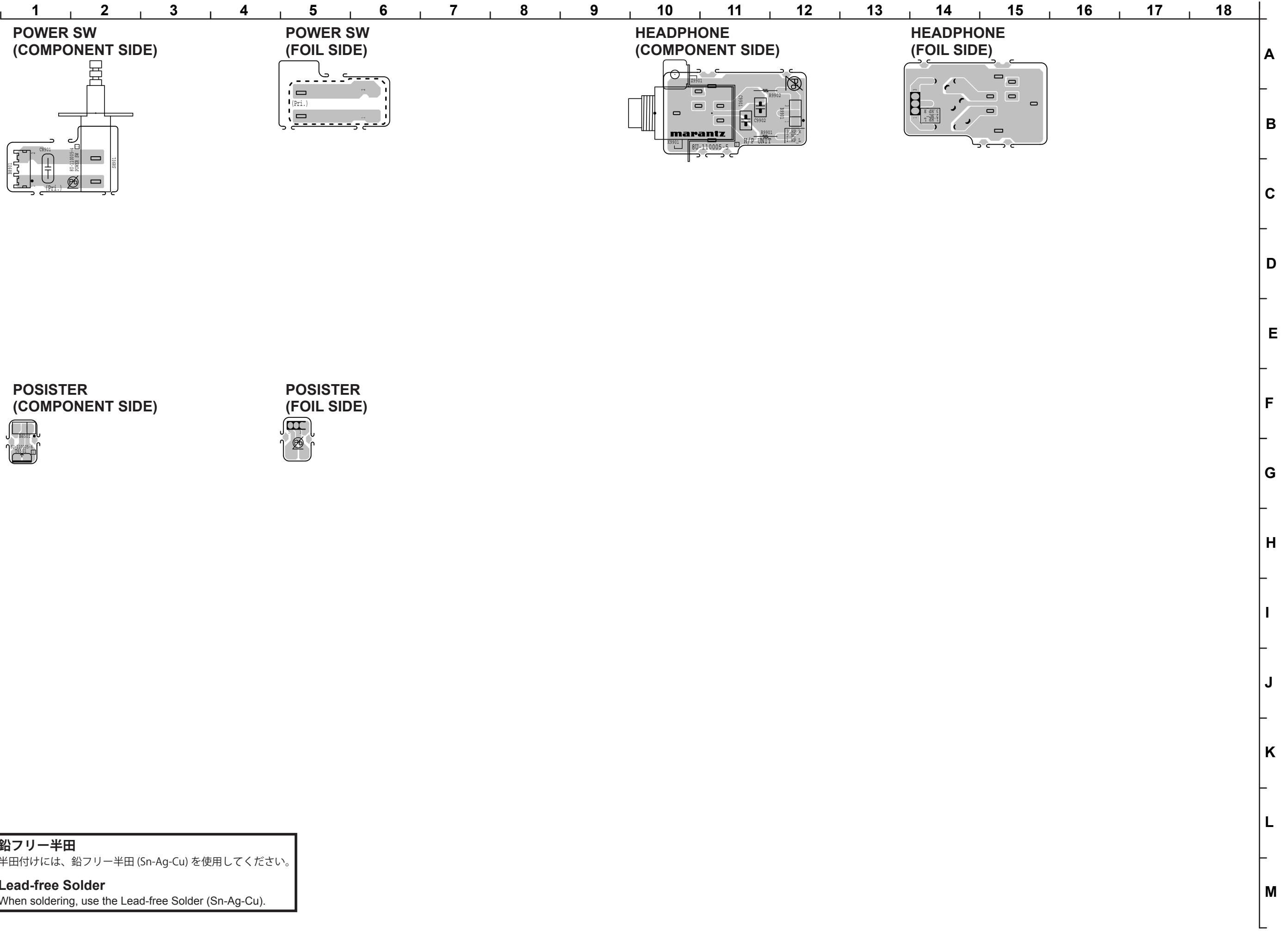
鉛フリー半田

半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

Lead-free Solder

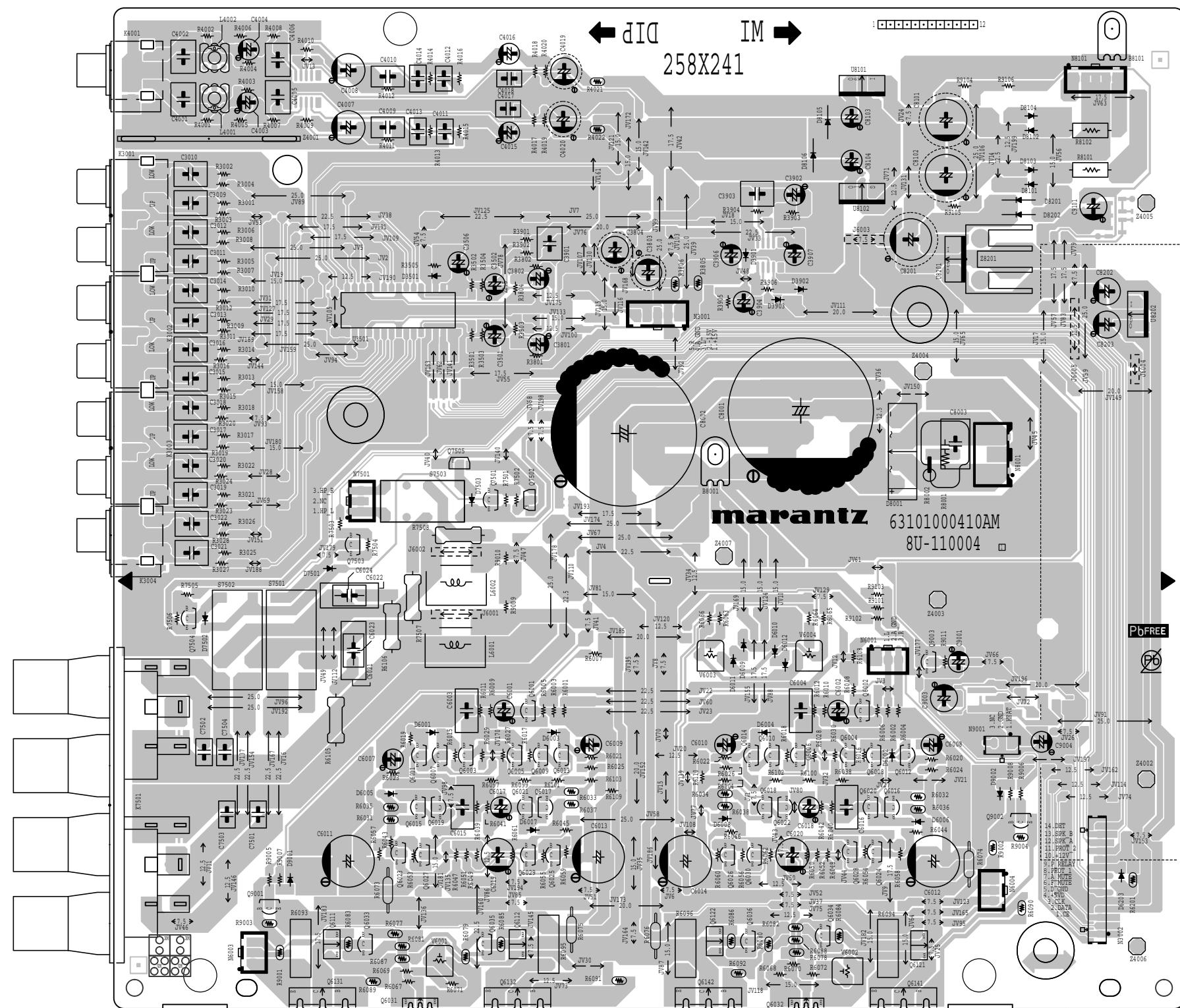
When soldering, use the Lead-free Solder (Sn-Ag-Cu).





1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

**MAIN
(COMPONENT SIDE)**



鉛フリー半田

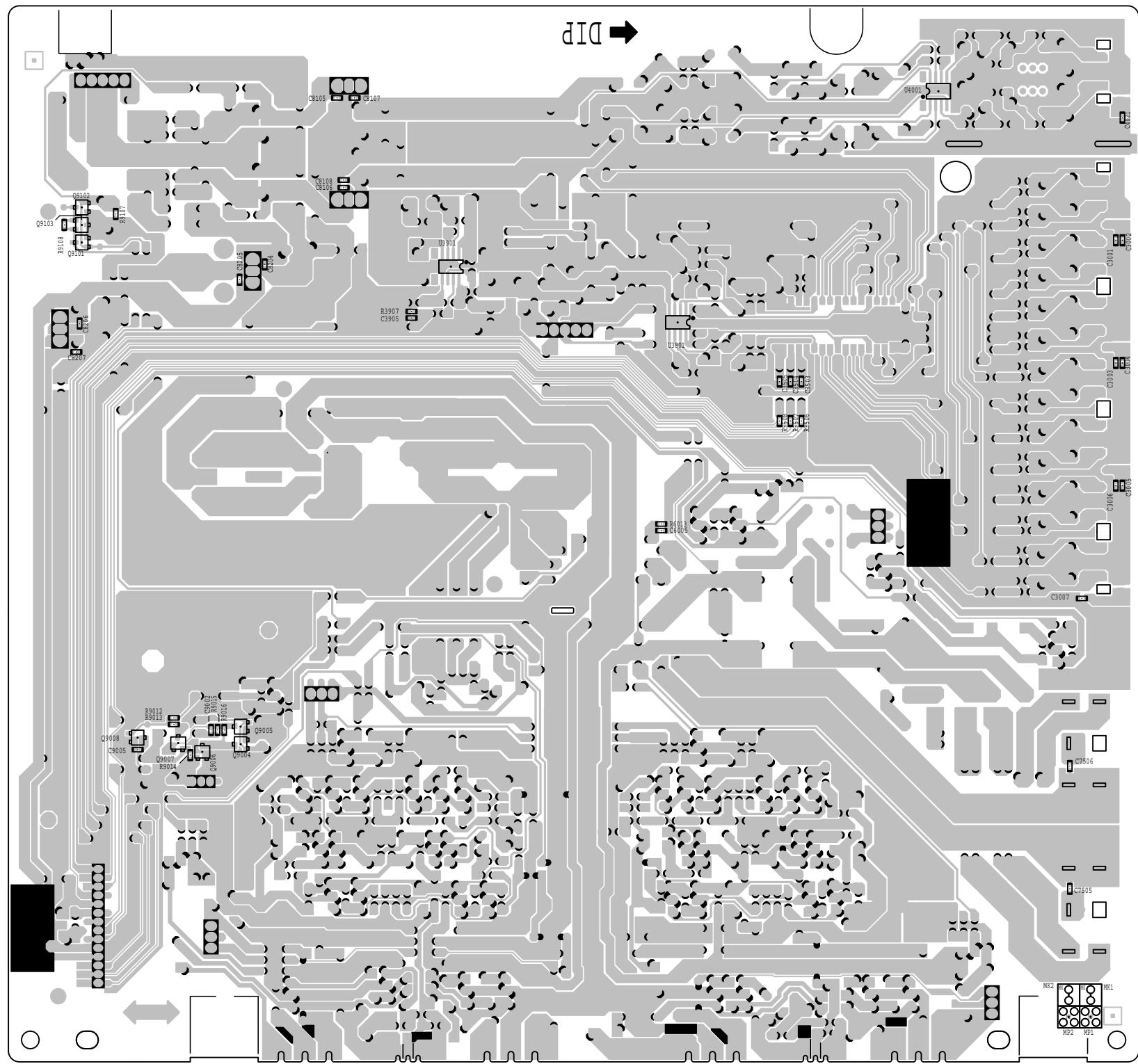
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

Lead-free Solder

When soldering, use the Lead-free Solder (Sn-Ag-Cu).

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

MAIN
(FOIL SIDE)



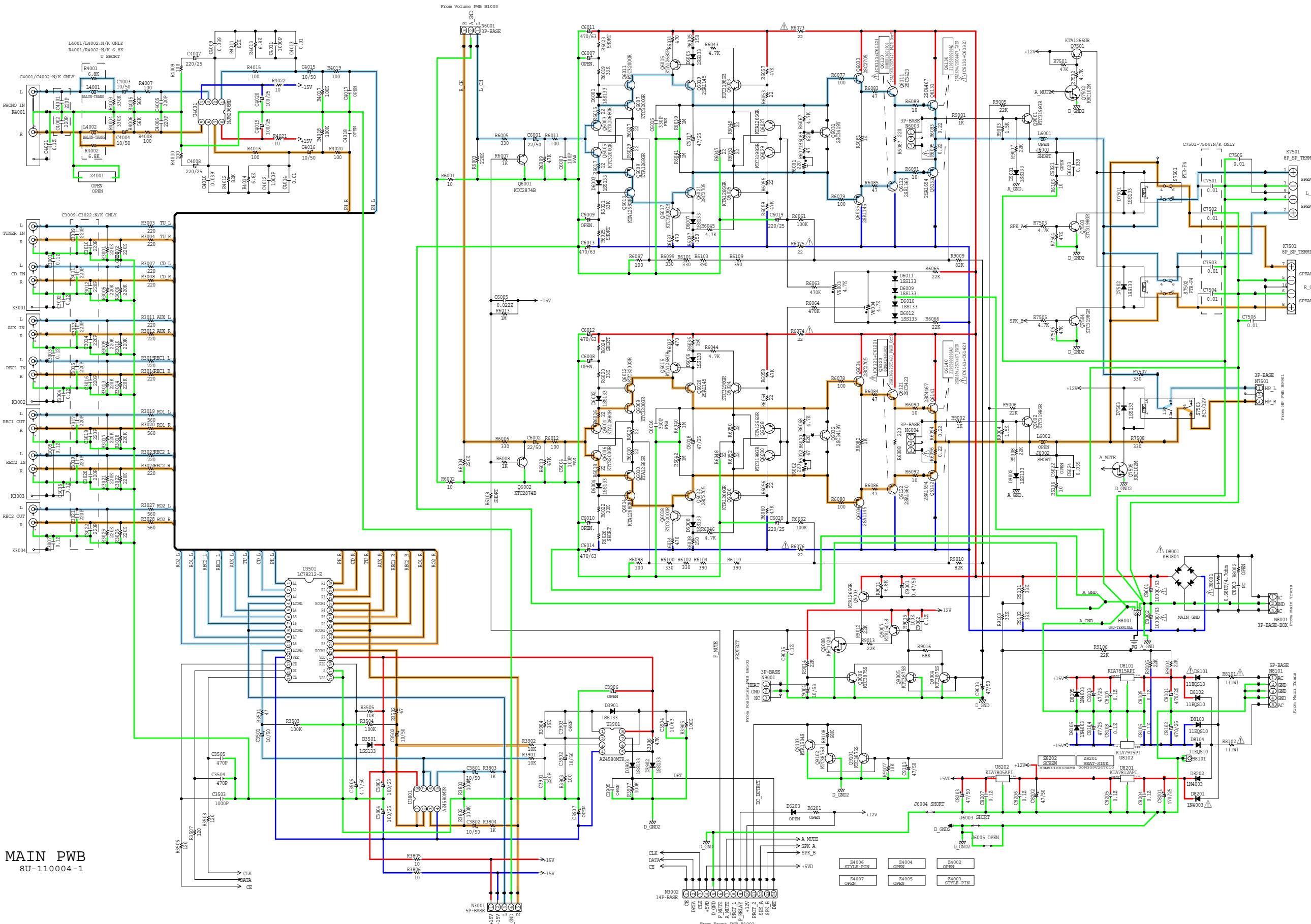
鉛フリー半田

半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

Lead-free Solder

When soldering, use the Lead-free Solder (Sn-Ag-Cu).

1 2 3 4 5 6 7 8



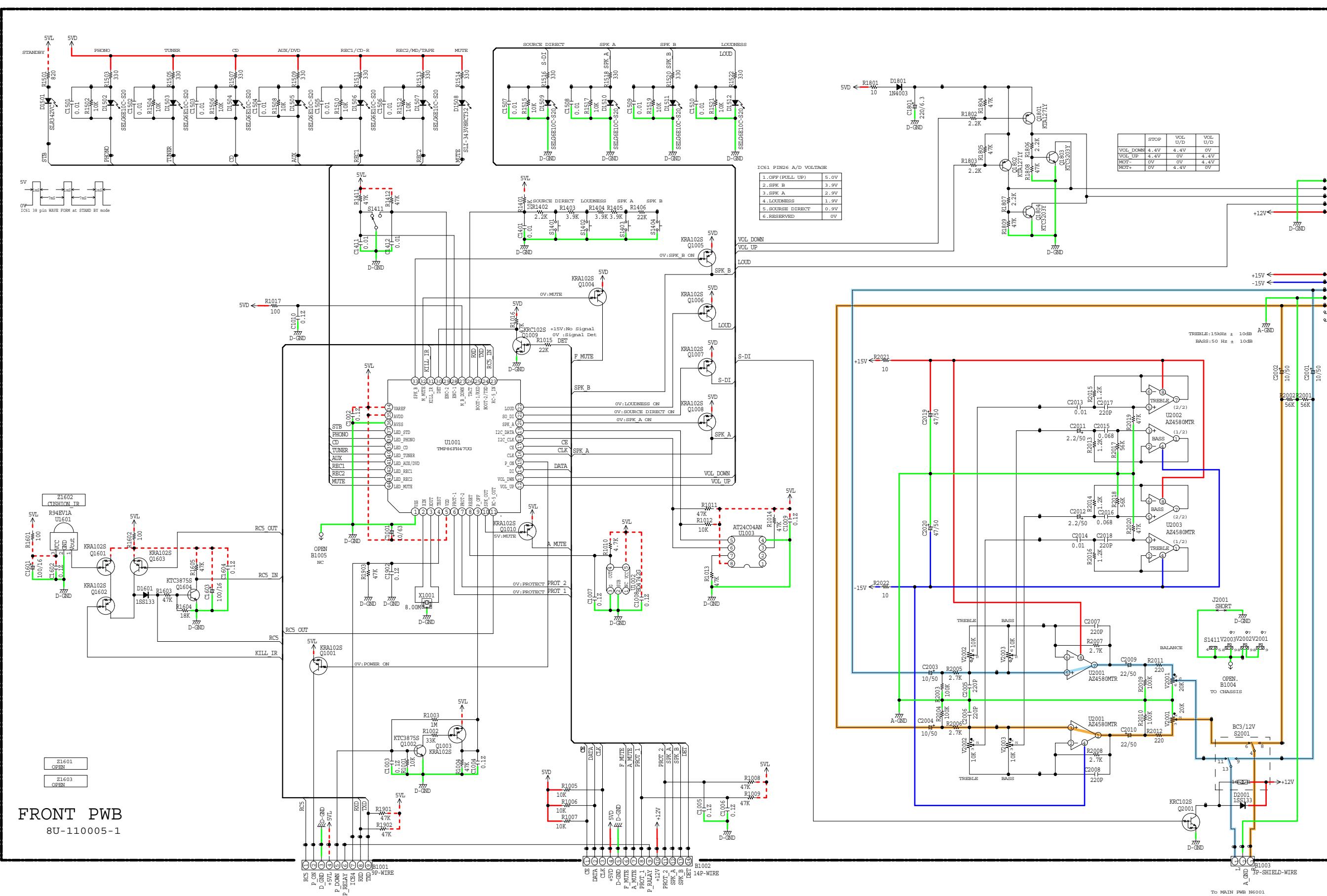
GND — POWER + — POWER - — STBY POWER

L ch SIGNAL LINE

R ch SIGNAL LINE

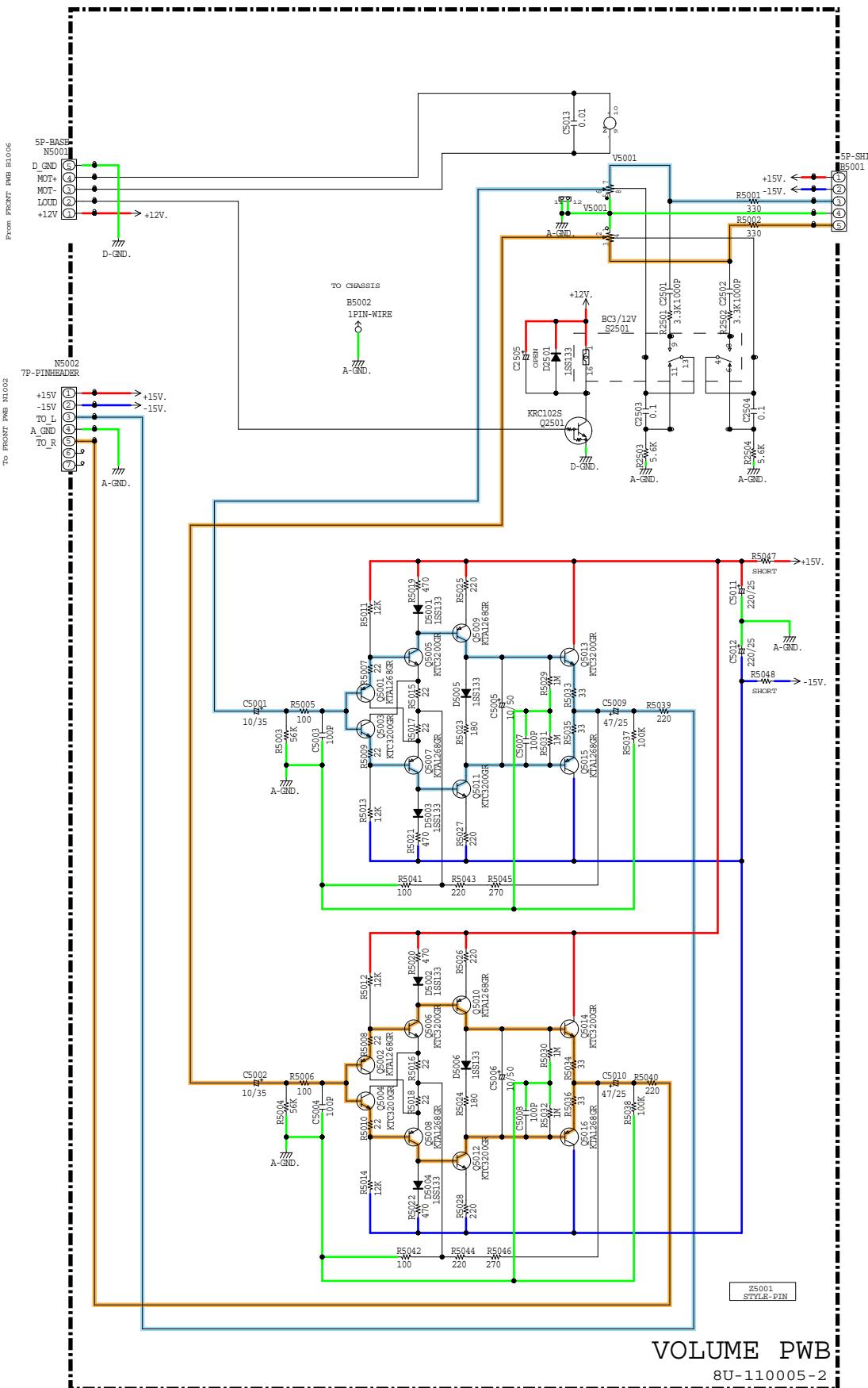
SCHEMATIC DIAGRAMS (1/3)
MAIN UNIT

1 2 3 4 5 6 7 8

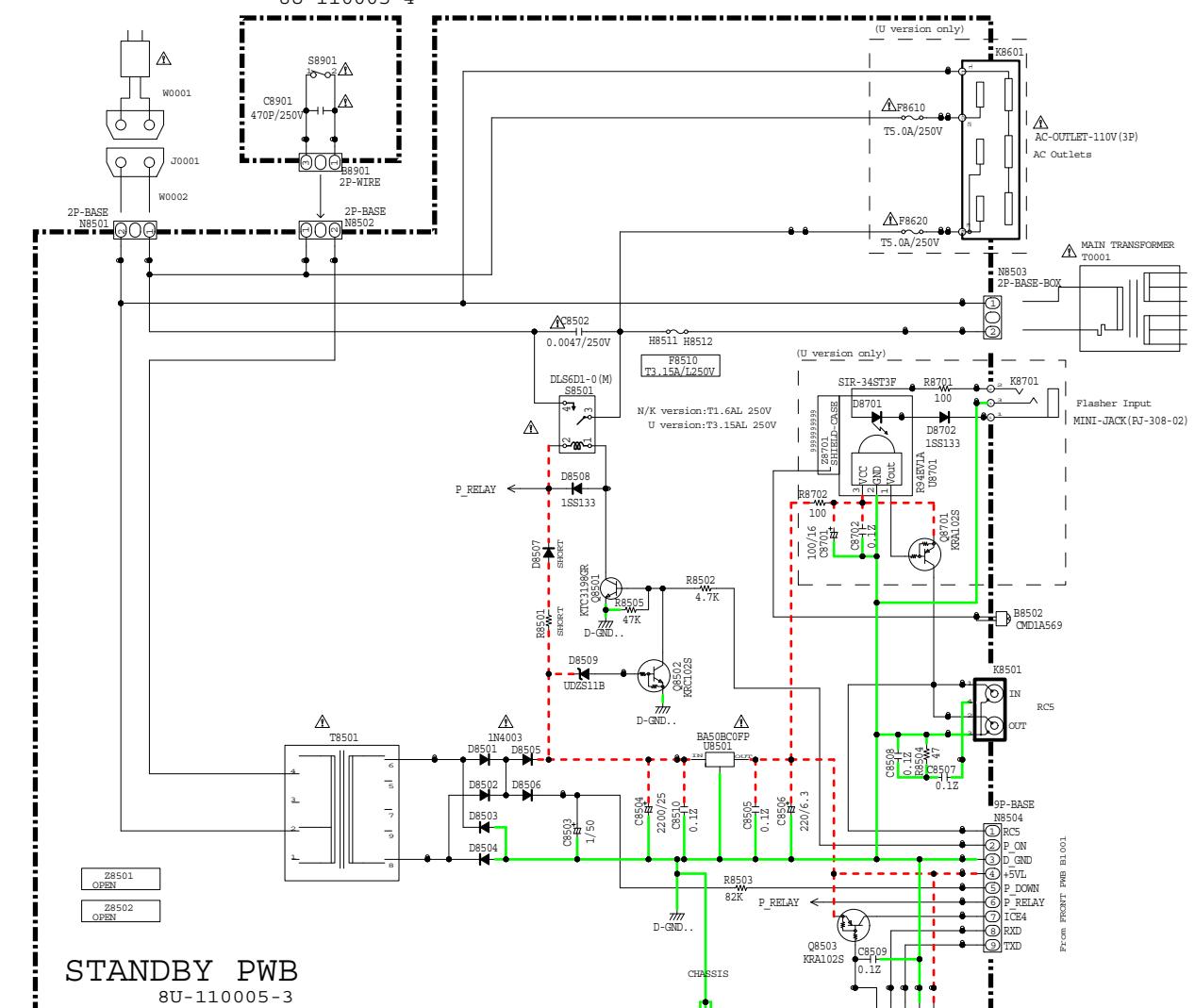


**SCHEMATIC DIAGRAMS (2/3)
FRONT UNIT**

1 2 3 4 5 6 7 8

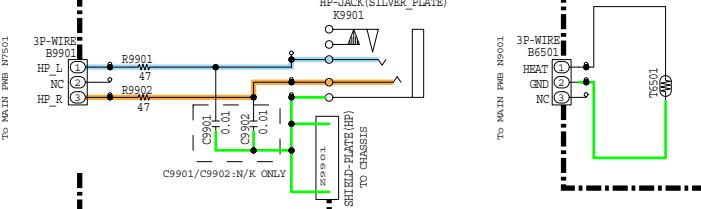


POWER SW PWB
8U-110005-4



HEADPHONE PWB
8U-110005-5

POSISTER PWB
8U-110005-6



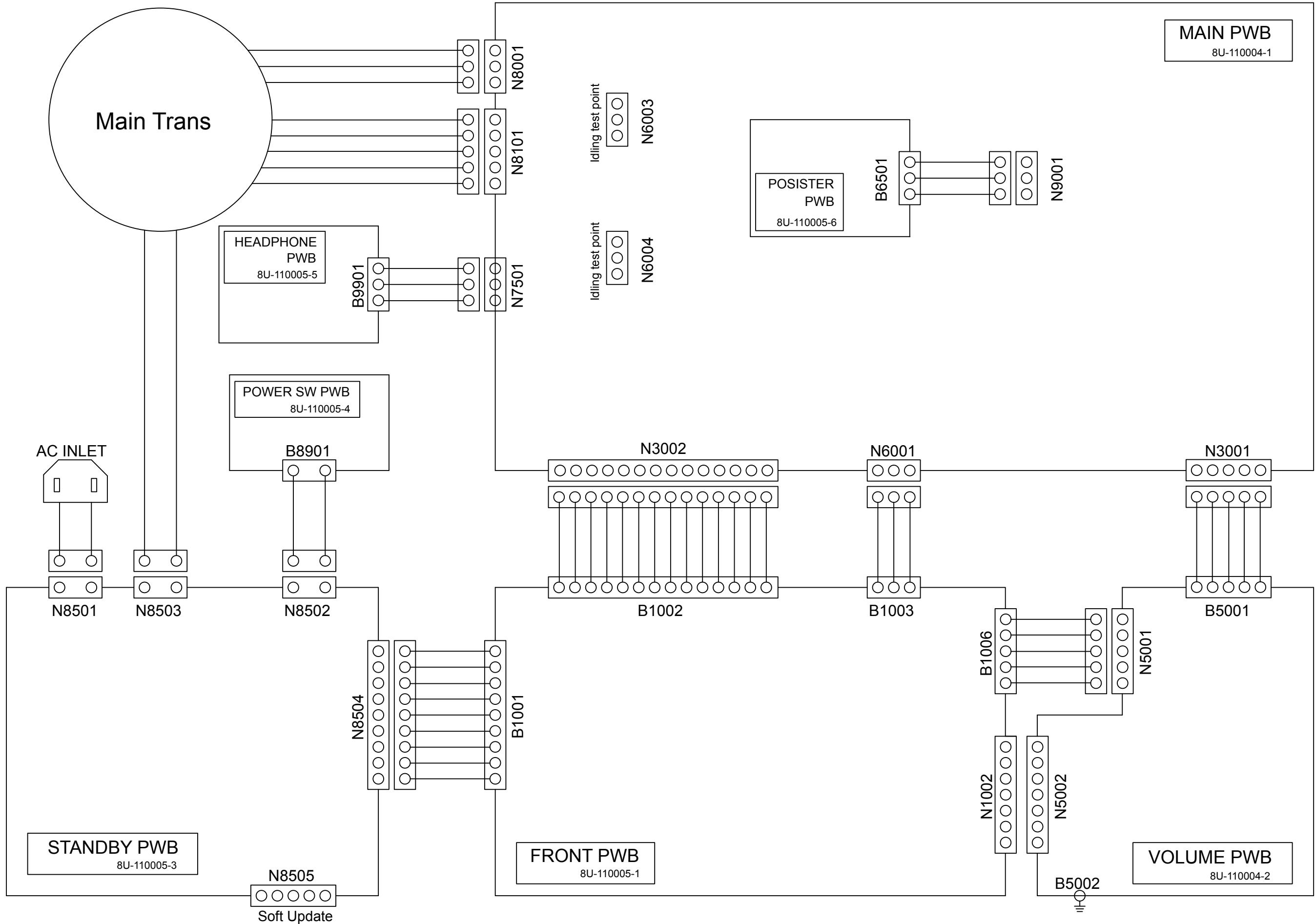
GND — POWER + — POWER - - - STBY POWER

L ch SIGNAL LINE

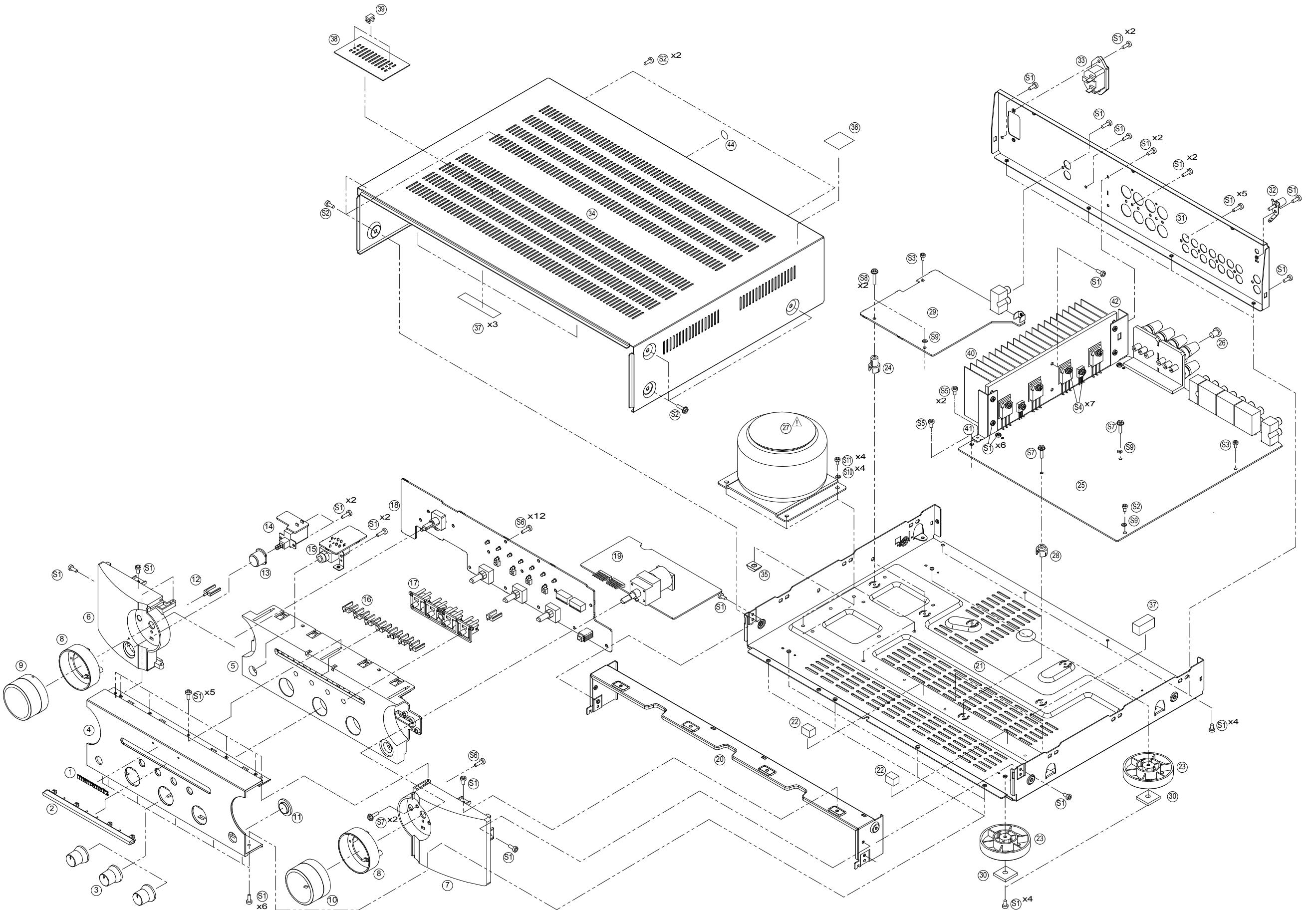
R ch SIGNAL LINE

SCHEMATIC DIAGRAMS (3/3)
VOLUME UNIT
STANDBY UNIT
POWER SW UNIT
HEADPHONE UNIT
POSISTER UNIT

WIRING DIAGRAM



EXPLODED VIEW



WARNING:
Parts marked with this symbol have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

Personal notes:

Personal notes:

PARTS LIST OF EXPLODED VIEW

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

*P.W.B. ASS'Y indicated by "nsp" on this table cannot be supplied. When repairing the P.W.B. ASS'Y, check the board parts list and order replacement parts.

*Parts indicated by the "★" mark are not illustrated in the exploded view.

*The parts listed below are only for maintenance. Therefore they might differ from the parts used in the unit in appearances or dimensions.

Note: The symbols in the column "Remarks" indicate the following destinations.

U : North America model

N : Europe model

K : China model

B : Black model

SG : Silver gold model

| Ref. No. | Part No. | Part Name | Remarks | Q'ty | New | |
|----------|---------------|--------------------------------------|----------------------|------|-----|---|
| 25 | nsp | MAIN PWB ASSY | N,K | 1 | * | |
| 25 | nsp | MAIN PWB ASSY | U | 1 | * | |
| A | nsp | FRONT PWB ASSY | N,K | 1 | * | |
| A | nsp | FRONT PWB ASSY | U | 1 | * | |
| 14 | - | POWER SW PWB UNIT | | | | |
| 15 | - | HEADPHONE PWB UNIT | | | | |
| 18 | - | FRONT PWB UNIT | | | | |
| 19 | - | VOLUME PWB UNIT | | | | |
| 29 | - | STANDBY PWB UNIT | | | | |
| 1 | 421410006004M | MARANTZ BADGE (AL) FOR M1 MODEL | | 1 | | |
| 2 | 41651000300AM | WINDOW FUNCTION PM6004 | | 1 | | |
| 3 | 412510059003M | TONE KNOB BL PM7004 A334 | N1B,U1B,K1B | 3 | | |
| 3 | 412510059034M | TONE KNOB SG PM7004 A334 | N1SG | 3 | | |
| 4 | 40241001600AM | FRONT AL PANEL BL PM6004 | N1B,U1B,K1B | 1 | * | |
| 4 | 40241001601AM | FRONT AL PANEL SG PM6004 | N1SG | 1 | * | |
| 5 | nsp | FRONT CENTER MOLD BL PM6004 | N1B,U1B,K1B | 1 | | |
| 5 | nsp | FRONT CENTER MOLD SG PM6004 | N1SG | 1 | | |
| 6 | 402510154000M | CGW3A467RNXB37 ESC. L BL PM5004 A333 | N1B,U1B,K1B | 1 | | |
| 6 | 402510154031M | CGW3A467ROWD10 ESC. L SG PM5004 A333 | N1SG | 1 | | |
| 7 | 40251001700AM | ESCUOTCHEON R BL PM6004 | N1B,U1B,K1B | 1 | | |
| 7 | 40251001701AM | ESCUOTCHEON R SG PM6004 | N1SG | 1 | | |
| 8 | 42451000200AM | RING VOLUME BL PM6004 | N1B,U1B,K1B | 2 | | |
| 8 | 42451000201AM | RING VOLUME SG PM6004 | N1SG | 2 | | |
| 9 | 41201000200AM | KNOB AL CAP BL PM6004 | N1B,U1B,K1B | 1 | | |
| 9 | 41201000201AM | KNOB AL CAP SG PM6004 | N1SG | 1 | | |
| 10 | 41201000300AM | KNOB AL CAP POINTER BL PM6004 | N1B,U1B,K1B | 1 | | |
| 10 | 41201000301AM | KNOB AL CAP POINTER SG PM6004 | N1SG | 1 | | |
| 11 | 481510004009M | LENS IR BL PM7003 24AJ | N1B,U1B,K1B | 1 | | |
| 11 | 481510004047M | LENS IR WH PM7003 24AJ | N1SG | 1 | | |
| 12 | 481510003006M | LENS | | 1 | | |
| 13 | 411510027003M | BUTTON PUSH BL PM7003 24AJ | N1B,U1B,K1B | 1 | | |
| 13 | 411510027034M | BUTTON PUSH SG PM7003 24AJ | N1SG | 1 | | |
| 16 | nsp | LENS FUNCTION A349 | | 1 | | |
| 17 | 41151000200AM | BUTTON BL PM6004 | N1B,U1B,K1B | 1 | | |
| 17 | 41151000201AM | BUTTON SG PM6004 | N1SG | 1 | | |
| 20 | nsp | FRONT FRAME | | 1 | | |
| 21 | nsp | MAIN CHASSIS PM6004 A349 | | 1 | | |
| 22 | nsp | BUFFER | | 2 | | |
| 23 | 00M243W057210 | FOOT SL | | 4 | | |
| 24 | nsp | HOLDER h119 | | 2 | | |
| 26 | 45351000200AM | CAP PM6004 A349 | N,K | 8 | | |
| △ | 27 | 10101000600AM | POWER TRANS (U) A349 | U | 1 | * |

| | Ref. No. | Part No. | Part Name | Remarks | Q'ty | New |
|---|----------|---------------|-----------------------------|-------------|------|-----|
| ⚠ | 27 | 10101000500AM | POWER TRANS (N) A349 | N,K | 1 | |
| | 28 | nsp | HOLDER h5 | | 2 | |
| | 30 | 00M32CW107010 | CUSHION FOOT CHG1A360 | | 4 | |
| | 31 | nsp | REAR PANEL PM6004 (U) | U | 1 | * |
| | 31 | nsp | REAR PANEL PM6004 (N) | N | 1 | * |
| | 31 | nsp | REAR PANEL PM6004 (K) | K | 1 | * |
| | 32 | 48801000200AM | Terminal PHONO | | 1 | |
| ⚠ | 33 | 00D2033996008 | AC INLET (2P) | | 1 | |
| | 34 | 40331000300AM | TOP COVER BL PM6004 | N1B,U1B,K1B | 1 | |
| | 34 | 40331000301AM | TOP COVER SG PM6004 | N1SG | 1 | |
| | 35 | nsp | RUBBER PM6004 A349 | | 2 | |
| | 36 | nsp | LABEL (HOT SURFACE CAUTION) | | 1 | |
| | 37 | 00M14AJ107010 | TOP COVER SHEET | | 3 | |
| | 38 | 44551000200AM | SHEET TOP BL PM6004 A349 | N1B,U1B,K1B | 1 | |
| | 38 | 44551000201AM | SHEET TOP SG PM6004 A349 | N1SG | 1 | |
| | 39 | 45451000500AM | STOPPER TOP BL PM6004 A349 | N1B,U1B,K1B | 2 | |
| | 39 | 45451000501AM | STOPPER TOP SG PM6004 A349 | N1SG | 2 | |
| | 40 | nsp | MAIN HEATSINK PM6004 A349 | | 1 | |
| | 41 | nsp | HEATSINK BRACKET F PM6004 | | 1 | |
| | 42 | nsp | HEATSINK BRACKET R PM6004 | | 1 | |
| | 44 | 419510012005M | MASK TOP LID REAR | | 1 | |
| ★ | 45 | 00D4458004007 | WIRE CLAMPER | | 9 | |
| | | | | | | |

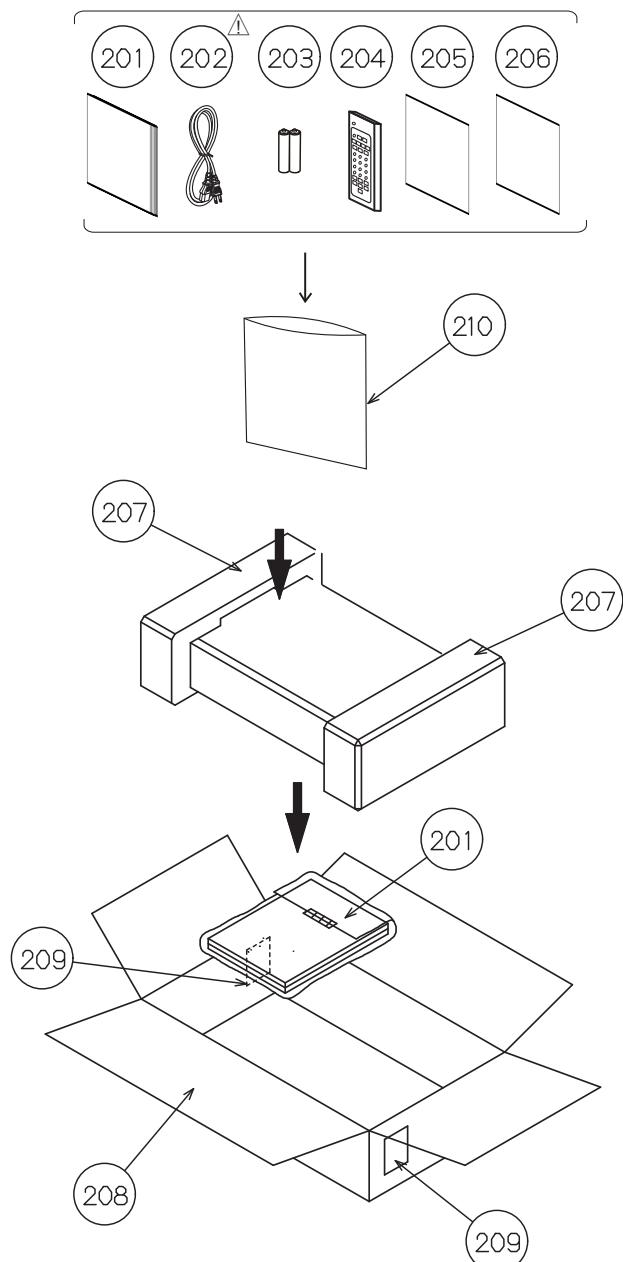
SCREWS

| | | | | | | |
|--|-----|-----|----------------------|----|----|--|
| | S1 | nsp | SCREW | | 51 | |
| | S2 | nsp | SCREW | BK | 6 | |
| | S2 | nsp | SCREW (SELF TAPPING) | SG | 6 | |
| | S3 | nsp | B.T.SCREW EX600240 | | 2 | |
| | S4 | nsp | SCREW | | 7 | |
| | S5 | nsp | SCREW | | 3 | |
| | S6 | nsp | SCREW | | 13 | |
| | S7 | nsp | SCREW | | 4 | |
| | S8 | nsp | SCREW | | 2 | |
| | S9 | nsp | SCREW | | 4 | |
| | S10 | nsp | SCREW | | 4 | |
| | S11 | nsp | 4X6 CBTS (S)-B | | 4 | |
| | | | | | | |
| | | | | | | |

WIRES

| | | | | | |
|---------|---------------|--|--|---|--|
| ★ W0002 | 0120109160060 | VAR-NO CN7.92MMPICH1PIN:BR.2PIN:BL10CM | | 1 | |
|---------|---------------|--|--|---|--|

PACKING VIEW



PARTS LIST OF PACKING & ACCESSORIES

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

*Parts indicated by the "★" mark are not illustrated in the exploded view.

*The parts listed below are only for maintenance. Therefore they might differ from the parts used in the unit in appearances or dimensions.

Note: The symbols in the column "Remarks" indicate the following destinations.

U : North America model

N : Europe model

K : China model

B : Black model

SG : Silver gold model

| Ref. No. | Part No. | Part Name | Remarks | Q'ty | New |
|----------|----------|---------------|------------------------------|------|-----|
| | 201 | 54111000202AM | USER MANUAL PM6004 (U) A349 | U | 1 * |
| | 201 | 54111000200AM | USER MANUAL PM6004 (N) A349 | N | 1 * |
| | 201 | 54111000205AM | USER MANUAL PM6004 (K) A349 | K | 1 * |
| ⚠ | 202 | 00MZC01803100 | # AC CORD UL/CSA 10A 125V | U | 1 |
| ⚠ | 202 | 00MZC01803080 | # 2P AC CORD 10A 250V CLASS2 | N | 1 |
| ⚠ | 202 | 00D2062249001 | AC CORD (E1C) | K | 1 |
| | 203 | nsp | BATTERY(R03X2) | | 1 |
| | 204 | 307010030006M | RC003PM | | 1 |
| | 205 | nsp | WARRANTY USA | U | 1 |

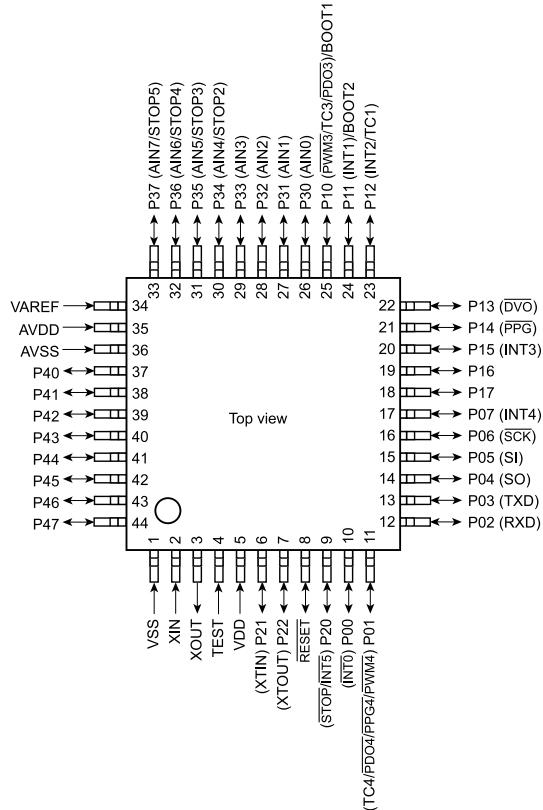
| Ref. No. | Part No. | Part Name | Remarks | Q'ty | New |
|----------|---------------|--------------------------|---------|------|-----|
| 206 | nsp | WARRANTY CANADA | U | 1 | |
| 207 | 53361000800AS | CUSHION | | 2 | * |
| 208 | 53121000800AM | PACKING CASE PM6004 A349 | | 1 | * |
| 209 | nsp | CONT.LABEL BASE(D&M) | | 1 | |
| ★ 210 | nsp | POLYETHY BAG | | 1 | |
| ★ 211 | nsp | CABINET COVER | | 1 | |
| ★ 212 | nsp | CLEAR LABEL(44X12 T0.05) | U | 1 | |
| ★ 213 | nsp | LABEL FOR PKG SG | M1SG | 2 | |

SEMICONDUCTORS

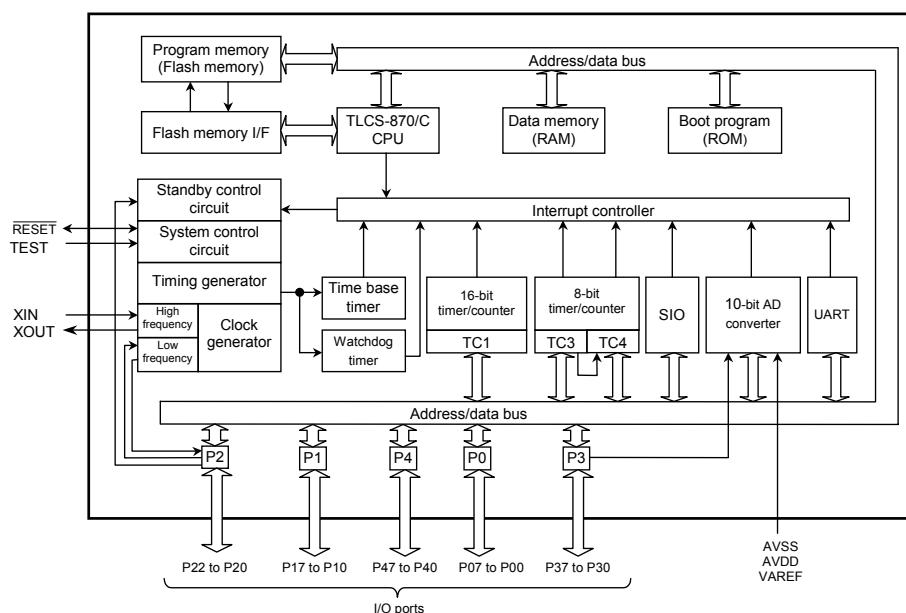
Only major semiconductors are shown. General semiconductors etc. are omitted from list.
The semiconductors which have a detailed drawing in a schematic diagram are omitted from list.

1. IC's

ETMP86FH47UG (U1001)



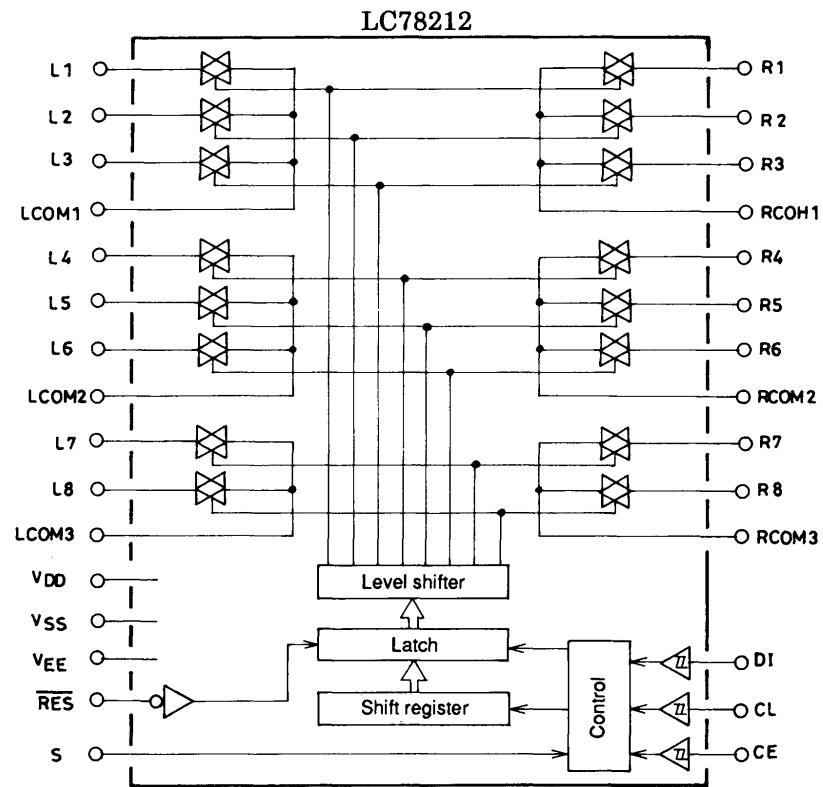
Block Diagram



Terminal Functions

| Pin | Port Name | I/O | Use | Name | Port Setting | | | | Note |
|-----|-------------------------------|-----|-----------|-----------------|--------------|------|------|-------|--|
| | | | | | ACT | INIT | STBY | EXT.R | |
| 1 | VSS | - | - | | - | - | - | - | 0 V |
| 2 | XIN | - | - | | - | - | - | - | 8M Clock in |
| 3 | XOUT | - | - | | - | - | - | - | 8M Clock out |
| 4 | TEST | I | I | | H | - | L | 47k | L->H : PROM Mode(Program rewriting) |
| 5 | VDD | - | - | VDD | - | - | - | - | u-com power supply 5V |
| 6 | P21 (XTIN) | I/O | I | PROT-1 | L | - | H | 47k | PROTECT_1: DC Offset / Over Current / Over Current |
| 7 | P22 (XTOUT) | I/O | I | PROT-2 | L | - | H | 47k | PROTECT_2: Vol. tague Abnormal Detect |
| 8 | RESET | I/O | I | | L | - | H | 4.7k | u-com Reset connector |
| 9 | P20 (STOP/INT5) | I/O | I | P_OFF | L | - | H | 47K | Detect Power Down(primary power supply ON/OFF detection). Oveserve at power supply cutting, Interrupt input |
| 10 | P00 (INT0) | I/O | O | SPK_OUT | L | H | H | - | Speaker Relay On (Audio Out) |
| 11 | P01 (TC4/PD04/PPG4/PWM4) | I/O | O | RC-5_OUT | L | H | H | - | RC-5 Output |
| 12 | P02 (RXD) | I/O | O | VOL_UP | L | H | H | 47K | Volume up |
| 13 | P03 (TXD) | I/O | O | VOL_DWN | L | H | H | 47K | Volume down |
| 14 | P04 (SO) | I/O | O | DI | - | L | L | 10K | Data (LC78212) |
| 15 | P05 (SI) | I/O | O | P_ON | L | H | H | - | Primary Relay ON |
| 16 | P06 (SCK) | I/O | O | CLK | - | - | L | 10K | Clock (LC78212) |
| 17 | P07 (INT4) | I/O | O | CE | H | L | L | 10K | CE (LC78212) |
| 18 | P17 | I/O | O | I2C_CLK | - | H | H | 47k | I2C (EEPROM) (Pull up) |
| 19 | P16 | I/O | I/O | I2C_DATA | - | H | H | 10K | I2C (EEPROM) (Pull up) |
| 20 | P15 (INT3) | I/O | O | SPK_A | L | H | H | - | Speaker A Relay On |
| 21 | P14 (PPG) | I/O | O | SD_DI | L | H | H | - | Relay operation port on power amp direct source direct mode |
| 22 | P13 (DVO) | I/O | O | PA_DI | L | H | H | - | Relay operation port on power amp direct |
| 23 | P12 (INT2/TC1) | I/O | I | RC-5_IN | L | - | H | 47k | RC-5 Input |
| 24 | P11 (INT1)(BOOT2) | I/O | I | BOOT-2/ TXD | - | - | - | 47k | Pull Up |
| 25 | P10(PWM3/TC3/PD03) (BOOT1) | I/O | I | BOOT-1/ RXD | - | - | - | 47k | Pull Up |
| 26 | P30 (AIN0) | I/O | I (AD) | TACT | - | - | - | 10K | Source Direct / Power Amp Direct SW /SPK A / SPK B |
| 27 | P31 (AIN1) | I/O | I | M_B_DOWN | L | - | H | 47k | Checking port for amp power supply off confirm |
| 28 | P32 (AIN2) | I/O | I | ENC_1 | L | - | H | 47k | Input Sel. Rotary Enc. |
| 29 | P33 (AIN3) | I/O | I | ENC_2 | L | - | H | 47k | Input Sel. Rotary Enc. |
| 30 | P34 (AIN4/STOP2) | I/O | I | DET | L | - | L | 47k | Power down : L (for Signal detection circuit) |
| 31 | P35 (AIN5/STOP3) | I/O | O | KILL IR | H | L | L | - | RC-5 Kill |
| 32 | P36 (AIN6/STOP4) | I/O | O | M_MUTE | L | H | L | - | Manual Mute (Mute on :L) |
| 33 | P37 (AIN7/STOP5) | I/O | O | SPK_B | L | H | H | - | Speaker B Relay On |
| 34 | VAREF | - | - | VAREF | - | - | - | - | A/D Reference |
| 35 | AVDD | - | - | AVDD | - | - | - | - | 5 V |
| 36 | AVSS | - | - | AVSS | - | - | - | - | 0 V |
| 37 | P40 | I/O | O | LED_STD | L | H | L | - | STANDBY LED/Protecting warning flushes |
| 38 | P41 | I/O | O | LED_PHONO | L | H | H | - | PHONO LED |
| 39 | P42 | I/O | O | LED_CD | L | H | H | - | CD LED |
| 40 | P43 | I/O | O | LED_TUNER | L | H | H | - | TUNER LED |
| 41 | P44 | I/O | O | LED_AUX/ DVD | L | H | H | - | AUX/DVD LED |
| 42 | P45 | I/O | O | LED_REC1 | L | H | H | - | REC1 LED |
| 43 | P46 | I/O | O | LED_REC2 | L | H | H | - | REC2 LED |
| 44 | P47 | I/O | O | LED_MUTE | L | H | H | - | MUTE LED/Protecting1 warning flushes |

LC78212 (U3501)



PARTS LIST OF P.C.B. UNIT

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

*The parts listed below are only for maintenance. Therefore they might differ from the parts used in the unit in appearances or dimensions.

Note: The symbols in the column "Remarks" indicate the following destinations.

U : North America model

N : Europe model

K : China model

B : Black model

SG : Silver gold model

8U-110004A MAIN PWB UNIT ASS'Y (N,K model)

8U-110004B MAIN PWB UNIT ASS'Y (U model)

| Ref. No. | Part No. | Part Name | Remarks | Q'ty | New |
|-----------------------------|---------------|--|---------|------|-----|
| SEMICONDUCTORS GROUP | | | | | |
| D3501 | 20105001130AS | 1SS133(HOMI) | | | |
| D3901-3903 | 20105001130AS | 1SS133(HOMI) | | | |
| D6001-6012 | 20105001130AS | 1SS133(HOMI) | | | |
| D7501-7503 | 20105001130AS | 1SS133(HOMI) | | | |
| ⚠ D8001 | 20305000320AS | KBU804 BRIDGE DIODE | | | |
| ⚠ D8101-8104 | 00MHD20055101 | ISHOTTKY 11EQS10 1A 100V | | | |
| D8105,8106 | 20305002730AS | 1N4003(HOMI) | | | |
| ⚠ D8201,8202 | 20305002730AS | 1N4003(HOMI) | | | |
| D9001,9002 | 20105001130AS | 1SS133(HOMI) | | | |
| | | | | | |
| U3501 | 00MHC10309030 | IC LC78212:CMOS LOGIC SANYO | | | |
| U3801 | 00D2631289900 | AZ4580MTR-E1 | | | |
| U3901 | 00D2631289900 | AZ4580MTR-E1 | | | |
| U4001 | 00D2630896909 | NJM2068MD-TE1 +C | | | |
| U8101 | 00D2631100034 | KIA7815API-U/P | | | |
| U8102 | 00D2631099035 | KIA7915PI-U/P | | | |
| U8201 | 00D2631100021 | KIA7812API-U/P | | | |
| U8202 | 00D2631100005 | KIA7805API-U/P | | | |
| | | | | | |
| Q6001,6002 | 00D2730459903 | KTC2874-B-AT/P | | | |
| Q6003,6004 | 00MHT600121A1 | KTA1268 PNP TRANSISTOR RANK=GR | | | |
| Q6005-6008 | 00MHT800931A1 | KTC3200 NPN TRANSISTOR RANK=GR | | | |
| Q6009,6010 | 00MHT600121A1 | KTA1268 PNP TRANSISTOR RANK=GR | | | |
| Q6011,6012 | 00MHT800931A1 | KTC3200 NPN TRANSISTOR RANK=GR | | | |
| Q6013-6016 | 00MHT600121A1 | KTA1268 PNP TRANSISTOR RANK=GR | | | |
| Q6017,6018 | 00MHT800931A1 | KTC3200 NPN TRANSISTOR RANK=GR | | | |
| Q6019,6020 | 00D2710168900 | 2SA1145 (O)/(Y)TPE6 | | | |
| Q6021,6022 | 00D2730281919 | 2SC2705 (Y)TPE6 | | | |
| Q6023,6024 | 21305001240AS | KTC3198-GR-AT/P | | | |
| Q6025-6028 | 00D2710300904 | KTA1266-GR-AT/P | | | |
| Q6029,6030 | 21305001240AS | KTC3198-GR-AT/P | | | |
| Q6031,6032 | 00MHT334191Y0 | TRANSISTOR C3419 Y 40V 0.8A PC=1.2W (5W) | | | |
| Q6033,6034 | 00D2730281919 | 2SC2705 (Y)TPE6 | | | |
| Q6035,6036 | 00D2710168900 | 2SA1145 (O)/(Y)TPE6 | | | |
| ⚠ Q6110 | 00MHK136019C0 | 2SA/360/2SC3423 PAIR O OR Y | | | |
| ⚠ Q6120 | 00MHK136019C0 | 2SA/360/2SC3423 PAIR O OR Y | | | |
| ⚠ Q6130 | 21905000200AS | 2SA1694/2SC4467 PAIR | | | |
| ⚠ Q6140 | 21905000200AS | 2SA1694/2SC4467 PAIR | | | |
| Q7501 | 00D2710300904 | KTA1266-GR-AT/P | | | |
| Q7502 | 00D2690206908 | KRC102M-AT/P (10K-10K) | | | |
| Q7503 | 21305001240AS | KTC3198-GR-AT/P | | | |
| Q7504 | 21305001240AS | KTC3198-GR-AT/P | | | |
| Q7505 | 00D2690206908 | KRC102M-AT/P (10K-10K) | | | |

| | Ref. No. | Part No. | Part Name | Remarks | Q'ty | New |
|------------------------|----------|---------------|-------------------------|----------------|------|-----|
| | Q9001 | 21305001240AS | KTC3198-GR-AT/P | | | |
| | Q9002 | 21305001240AS | KTC3198-GR-AT/P | | | |
| | Q9003 | 00D2710300904 | KTA1266-GR-AT/P | | | |
| | Q9004 | 00D2730464901 | KTC3875S-GR-RTK/P | | | |
| | Q9005 | 00D2730464901 | KTC3875S-GR-RTK/P | | | |
| | Q9006 | 00D2730464901 | KTC3875S-GR-RTK/P | | | |
| | Q9007 | 00D2710312905 | KTA1504S-GR-RTK/P | | | |
| | Q9008 | 00D2690192902 | KRC102S-RTK/P (10K-10K) | | | |
| | Q9101 | 00D2730464901 | KTC3875S-GR-RTK/P | | | |
| | Q9102 | 00D2730464901 | KTC3875S-GR-RTK/P | | | |
| | Q9103 | 00D2710312905 | KTA1504S-GR-RTK/P | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| RESISTORS GROUP | | | | | | |
| | R3805 | 00MGG0510016X | 10 OHM +- 5% 1/6W | FLAMERETERDANT | | |
| | R3806 | 00MGG0510016X | 10 OHM +- 5% 1/6W | FLAMERETERDANT | | |
| | R4021 | 00MGG0510016X | 10 OHM +- 5% 1/6W | FLAMERETERDANT | | |
| | R4022 | 00MGG0510016X | 10 OHM +- 5% 1/6W | FLAMERETERDANT | | |
| | R6031 | 00MGG0547116X | 470 OHM +- 5% 1/6W | FLAMERETERDANT | | |
| | R6032 | 00MGG0547116X | 470 OHM +- 5% 1/6W | FLAMERETERDANT | | |
| | R6033 | 00MGG0547116X | 470 OHM +- 5% 1/6W | FLAMERETERDANT | | |
| | R6034 | 00MGG0547116X | 470 OHM +- 5% 1/6W | FLAMERETERDANT | | |
| | R6035 | 00MGG0515116X | 150 OHM +- 5% 1/6W | FLAMERETERDANT | | |
| | R6036 | 00MGG0515116X | 150 OHM +- 5% 1/6W | FLAMERETERDANT | | |
| | R6037 | 00MGG0515116X | 150 OHM +- 5% 1/6W | FLAMERETERDANT | | |
| | R6038 | 00MGG0515116X | 150 OHM +- 5% 1/6W | FLAMERETERDANT | | |
| ⚠ | R6073 | 00MGG0522016X | 22 OHM +- 5% 1/6W | FLAMERETERDANT | | |
| ⚠ | R6074 | 00MGG0522016X | 22 OHM +- 5% 1/6W | FLAMERETERDANT | | |
| ⚠ | R6075 | 00MGG0522016X | 22 OHM +- 5% 1/6W | FLAMERETERDANT | | |
| ⚠ | R6076 | 00MGG0522016X | 22 OHM +- 5% 1/6W | FLAMERETERDANT | | |
| | R6077 | 00MGG0510116X | 100 OHM +- 5% 1/6W | FLAMERETERDANT | | |
| | R6078 | 00MGG0510116X | 100 OHM +- 5% 1/6W | FLAMERETERDANT | | |
| | R6079 | 00MGG0510116X | 100 OHM +- 5% 1/6W | FLAMERETERDANT | | |
| | R6080 | 00MGG0510116X | 100 OHM +- 5% 1/6W | FLAMERETERDANT | | |
| | R6081 | 00MGG0510216X | 1K OHM +- 5% 1/6W | FLAMERETERDANT | | |
| | R6082 | 00MGG0510216X | 1K OHM +- 5% 1/6W | FLAMERETERDANT | | |
| | R6083 | 00MGG0547016X | 47 OHM +- 5% 1/6W | FLAMERETERDANT | | |
| | R6084 | 00MGG0547016X | 47 OHM +- 5% 1/6W | FLAMERETERDANT | | |
| | R6085 | 00MGG0547016X | 47 OHM +- 5% 1/6W | FLAMERETERDANT | | |
| | R6086 | 00MGG0547016X | 47 OHM +- 5% 1/6W | FLAMERETERDANT | | |
| | R6087 | 00MGG0522116X | 220 OHM +- 5% 1/6W | FLAMERETERDANT | | |
| | R6088 | 00MGG0522116X | 220 OHM +- 5% 1/6W | FLAMERETERDANT | | |
| | R6089 | 00MGG0510016X | 10 OHM +- 5% 1/6W | FLAMERETERDANT | | |
| | R6090 | 00MGG0510016X | 10 OHM +- 5% 1/6W | FLAMERETERDANT | | |
| | R6091 | 00MGG0510016X | 10 OHM +- 5% 1/6W | FLAMERETERDANT | | |
| | R6092 | 00MGG0510016X | 10 OHM +- 5% 1/6W | FLAMERETERDANT | | |
| ⚠ | R6093 | 00D2462099013 | RK92=3AR22JS | | | |
| ⚠ | R6094 | 00D2462099013 | RK92=3AR22JS | | | |
| ⚠ | R6095 | 00D2462099013 | RK92=3AR22JS | | | |
| ⚠ | R6096 | 00D2462099013 | RK92=3AR22JS | | | |
| | R6105 | 00MNK05100020 | 10 OHM +- 5% 2W | | | |
| | R6106 | 00MNK05100020 | 10 OHM +- 5% 2W | | | |
| | R7507 | 00MNK05331020 | 330 OHM +- 5% 2W | | | |

| | Ref. No. | Part No. | Part Name | Remarks | Q'ty | New |
|-------------------------|----------|---------------|-----------------------------------|----------------|------|-----|
| | R7508 | 00MNK05331020 | 330 OHM +- 5% 2W | | | |
| ⚠ | R8001 | 00MBF68400016 | ! 0.68UF/4.7OHM | | | |
| ⚠ | R8101 | 00MGG05010120 | ERD50FJ1R0P or SPRX1CM12.5A J 1R0 | FLAMERETERDANT | | |
| ⚠ | R8102 | 00MGG05010120 | ERD50FJ1R0P or SPRX1CM12.5A J 1R0 | FLAMERETERDANT | | |
| | R9001 | 00MGG0510216X | 1K OHM +- 5% 1/6W | FLAMERETERDANT | | |
| | R9002 | 00MGG0510216X | 1K OHM +- 5% 1/6W | FLAMERETERDANT | | |
| | R9003 | 00MGG0515216X | 1.5K OHM +- 5% 1/6W | FLAMERETERDANT | | |
| | R9004 | 00MGG0515216X | 1.5K OHM +- 5% 1/6W | FLAMERETERDANT | | |
| | | | | | | |
| | V6001 | 00MRA02210781 | 220OHM NVZ6TLTA B221 | | | |
| | V6002 | 00MRA02210781 | 220OHM NVZ6TLTA B221 | | | |
| | V6003 | 00MRA04720781 | 4.7KOHM NVZ6TLTA B472 | | | |
| | V6004 | 00MRA04720781 | 4.7KOHM NVZ6TLTA B472 | | | |
| | | | | | | |
| | | | | | | |
| CAPACITORS GROUP | | | | | | |
| | C3009 | 133050086503S | CQ93M2A221JT(PEF) | N,K | | |
| | C3010 | 133050086503S | CQ93M2A221JT(PEF) | N,K | | |
| | C3011 | 133050086503S | CQ93M2A221JT(PEF) | N,K | | |
| | C3012 | 133050086503S | CQ93M2A221JT(PEF) | N,K | | |
| | C3013 | 133050086503S | CQ93M2A221JT(PEF) | N,K | | |
| | C3014 | 133050086503S | CQ93M2A221JT(PEF) | N,K | | |
| | C3015 | 133050086503S | CQ93M2A221JT(PEF) | N,K | | |
| | C3016 | 133050086503S | CQ93M2A221JT(PEF) | N,K | | |
| | C3017 | 133050086503S | CQ93M2A221JT(PEF) | N,K | | |
| | C3018 | 133050086503S | CQ93M2A221JT(PEF) | N,K | | |
| | C3019 | 133050086503S | CQ93M2A221JT(PEF) | N,K | | |
| | C3020 | 133050086503S | CQ93M2A221JT(PEF) | N,K | | |
| | C3021 | 133050086503S | CQ93M2A221JT(PEF) | N,K | | |
| | C3022 | 133050086503S | CQ93M2A221JT(PEF) | N,K | | |
| | C3501 | 00MOA10605021 | 10 UF M 50V RA-2 | | | |
| | C3502 | 00MOA10605021 | 10 UF M 50V RA-2 | | | |
| | C3506 | 13405014040AS | CE04W1H4R7MT(KR3) | | | |
| | C3801 | 00MOA10605021 | 10 UF M 50V RA-2 | | | |
| | C3802 | 00MOA10605021 | 10 UF M 50V RA-2 | | | |
| | C3803 | 00MOA10702521 | 100 UF M 25V RA-2 | | | |
| | C3804 | 00MOA10702521 | 100 UF M 25V RA-2 | | | |
| | C3901 | 133050086503S | CQ93M2A221JT(PEF) | | | |
| | C3902 | 00MOA10605021 | 10 UF M 50V RA-2 | | | |
| | C3904 | 13405014840AS | CE04W1J100MT(KR3) | | | |
| | C4001 | 133050086503S | CQ93M2A221JT(PEF) | N,K | | |
| | C4002 | 133050086503S | CQ93M2A221JT(PEF) | N,K | | |
| | C4003 | 00MOA10605021 | 10 UF M 50V RA-2 | | | |
| | C4004 | 00MOA10605021 | 10 UF M 50V RA-2 | | | |
| | C4005 | 133050086503S | CQ93M2A221JT(PEF) | | | |
| | C4006 | 133050086503S | CQ93M2A221JT(PEF) | | | |
| | C4007 | 00MOA22702521 | 220 UF M 25V RA-2 | | | |
| | C4008 | 00MOA22702521 | 220 UF M 25V RA-2 | | | |
| | C4009 | 133050088516S | CQ93M2A393JT(PEF) | | | |
| | C4010 | 133050088516S | CQ93M2A393JT(PEF) | | | |
| | C4011 | 133050086527S | CQ93M2A102JT(PEF) | | | |
| | C4012 | 133050086527S | CQ93M2A102JT(PEF) | | | |
| | C4013 | 133050087544S | CQ93M2A103JT(PEF) | | | |

| | Ref. No. | Part No. | Part Name | Remarks | Q'ty | New |
|---|----------|---------------|-----------------------|---------|------|-----|
| | C4014 | 133050087544S | CQ93M2A103JT(PEF) | | | |
| | C4015 | 00MOA10605021 | 10 UF M 50V RA-2 | | | |
| | C4016 | 00MOA10605021 | 10 UF M 50V RA-2 | | | |
| | C4019 | 00MOA10702521 | 100 UF M 25V RA-2 | | | |
| | C4020 | 00MOA10702521 | 100 UF M 25V RA-2 | | | |
| | C6001 | 00MOA22605021 | 22 UF M 50V RA-2 | | | |
| | C6002 | 00MOA22605021 | 22 UF M 50V RA-2 | | | |
| | C6003 | 00MOF55101591 | 100PF 200V +- 10% FAS | | | |
| | C6004 | 00MOF55101591 | 100PF 200V +- 10% FAS | | | |
| | C6011 | 00MOA47706326 | 470 UF M 63V RA-2 | | | |
| | C6012 | 00MOA47706326 | 470 UF M 63V RA-2 | | | |
| | C6013 | 00MOA47706326 | 470 UF M 63V RA-2 | | | |
| | C6014 | 00MOA47706326 | 470 UF M 63V RA-2 | | | |
| | C6015 | 00MOF55331581 | 330PF 100V +- 5% FNS | | | |
| | C6016 | 00MOF55331581 | 330PF 100V +- 5% FNS | | | |
| | C6017 | 00MOA47602521 | 47 UF M 25V RA-2 | | | |
| | C6018 | 00MOA47602521 | 47 UF M 25V RA-2 | | | |
| | C6019 | 00MOA22702521 | 220 UF M 25V RA-2 | | | |
| | C6020 | 00MOA22702521 | 220 UF M 25V RA-2 | | | |
| | C6023 | 133050088516S | CQ93M2A393JT(PEF) | | | |
| | C6024 | 133050088516S | CQ93M2A393JT(PEF) | | | |
| | C7501 | 133050087544S | CQ93M2A103JT(PEF) | N,K | | |
| | C7502 | 133050087544S | CQ93M2A103JT(PEF) | N,K | | |
| | C7503 | 133050087544S | CQ93M2A103JT(PEF) | N,K | | |
| | C7504 | 133050087544S | CQ93M2A103JT(PEF) | N,K | | |
| ⚠ | C8001 | 13405000220AS | 10000UF/63V(LAO) | | | |
| ⚠ | C8002 | 13405000220AS | 10000UF/63V(LAO) | | | |
| | C8101 | 00MOA47702521 | 470UF 25V M RA-2 | | | |
| | C8102 | 00MOA47702521 | 470UF 25V M RA-2 | | | |
| | C8103 | 00MOA47602521 | 47 UF M 25V RA-2 | | | |
| | C8104 | 00MOA47602521 | 47 UF M 25V RA-2 | | | |
| | C8201 | 00MOA47702521 | 470UF 25V M RA-2 | | | |
| | C8202 | 13405014340AS | CE04W1H470MT(KR3) | | | |
| | C8203 | 13405014340AS | CE04W1H470MT(KR3) | | | |
| | C9001 | 00D2544573936 | CE04W1HR47MT(RA3) | | | |
| | C9003 | 13405014340AS | CE04W1H470MT(KR3) | | | |
| | C9004 | 13405014840AS | CE04W1J100MT(KR3) | | | |
| | C9101 | 13405014340AS | CE04W1H470MT(KR3) | | | |
| | | | | | | |
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| | | | | | | |

OTHERS PARTS GROUP

| | | | | | |
|-------|---------------|---------------------------------|-----|--|--|
| L4001 | 11501000200AS | BALUN TRANS | N,K | | |
| L4002 | 11501000200AS | BALUN TRANS | N,K | | |
| | | | | | |
| | | | | | |
| N3001 | nsp | 2.5MM PITCH BASE 05PIN (TOP) | | | |
| N3002 | nsp | 2.0MM PITCH BASE 14PIN (TOP) | | | |
| N6001 | nsp | 2.5MM PITCH BASE 03PIN (TOP) | | | |
| N6003 | nsp | 2.5MM PITCH BASE 03PIN (TOP) | | | |
| N6004 | nsp | 2.5MM PITCH BASE 03PIN (TOP) | | | |
| N7501 | nsp | 2.5MM PITCH BASE 03PIN (TOP) | | | |
| N8001 | nsp | 3.96MM PITCH BASE BOX 3PIN(TOP) | | | |
| N8101 | nsp | 2.5MM PITCH BASE 05PIN (TOP) | | | |
| N9001 | nsp | 2.0MM PITCH BASE 03PIN (TOP) | | | |
| S7501 | 682010016008S | FTR-F4AK012T | | | |

| Ref. No. | Part No. | Part Name | Remarks | Q'ty | New |
|----------|---------------|---------------------------|---------|------|-----|
| S7502 | 682010016008S | FTR-F4AK012T | | | |
| S7503 | 682010021000S | RELAY(BC3-12) | | | |
| | | | | | |
| K3001 | 643010048000S | 4P PIN JACK(MSP-244V4)-AU | | | |
| K3002 | 643010048000S | 4P PIN JACK(MSP-244V4)-AU | | | |
| K3003 | 643010048000S | 4P PIN JACK(MSP-244V4)-AU | | | |
| K3004 | 643010030108S | 2P PIN JACK(MSP-242V3)-AU | | | |
| K4001 | 643010030108S | 2P PIN JACK(MSP-242V3)-AU | | | |
| K7501 | 64601000300AS | SPK TERMINAL A349 | | | |
| | | | | | |
| B8001 | nsp | GND TERMINAL FOR PCB | | | |
| B8101 | nsp | GND TERMINAL FOR PCB | | | |
| | | | | | |
| Z4003 | nsp | STYLE PIN | | | |
| Z4006 | nsp | STYLE PIN | | | |
| Z8201 | nsp | HEAT SINK | | | |
| Z8202 | nsp | SCREW | | | |

8U-110005A FRONT PWB UNIT ASS'Y (N,K model)
8U-110005B FRONT PWB UNIT ASS'Y (U model)

| Ref. No. | Part No. | Part Name | Remarks | Q'ty | New |
|-----------------------------|---------------|--------------------------------|----------------|------|-----|
| SEMICONDUCTORS GROUP | | | | | |
| D1501 | 00D3939607908 | SLR342VC(TB7) | | | |
| D1502-1507 | 26301000440AS | SELG6E10C-S20 BLUE LED | | | * |
| D1508 | 263010041403S | SLI-343V8RC(T32) | | | |
| D1509-1512 | 26301000440AS | SELG6E10C-S20 BLUE LED | | | * |
| D1601 | 20105001130AS | 1SS133(HOMI) | | | |
| D1801 | 20305002730AS | 1N4003(HOMI) | | | |
| D2001 | 20105001130AS | 1SS133(HOMI) | | | |
| D2501 | 20105001130AS | 1SS133(HOMI) | | | |
| D5001-5006 | 20105001130AS | 1SS133(HOMI) | | | |
| ⚠ D8501-8506 | 20305002730AS | 1N4003(HOMI) | | | |
| D8508 | 20105001130AS | 1SS133(HOMI) | | | |
| D8509 | 00D2760683985 | UDZS11B-TE17 | | | |
| D8701 | 00MHI20002210 | SIR-34ST3F | U | | |
| D8702 | 20105001130AS | 1SS133(HOMI) | U | | |
| U1001 | 2439100016008 | TMP86FH47UG | | | |
| U1002 | 00MHC1022421Z | BD4742G RESET IC 4.2V | | | |
| U1003 | 00D2623388903 | AT24C04AN-10SU-1.8-SL383 | | | |
| U1601 | 262010007707S | R94EV1A | | | |
| U2001-2003 | 00D2631289900 | AZ4580MTR-E1 | | | |
| ⚠ U8501 | 00D2622977933 | BA50BC0FP-E2 | | | |
| U8701 | 262010007707S | R94EV1A | U | | |
| Q1001 | 00D2690184907 | KRA102S-RTK/P (10K-10K) | | | |
| Q1002 | 00D2730464901 | KTC3875S-GR-RTK/P | | | |
| Q1003-1008 | 00D2690184907 | KRA102S-RTK/P (10K-10K) | | | |
| Q1009 | 00D2690192902 | KRC102S-RTK/P (10K-10K) | | | |
| Q1010 | 00D2690184907 | KRA102S-RTK/P (10K-10K) | | | |
| Q1601-1603 | 00D2690184907 | KRA102S-RTK/P (10K-10K) | | | |
| Q1604 | 00D2730464901 | KTC3875S-GR-RTK/P | | | |
| Q1801,1802 | 00MHT600141B1 | KTA1271 PNP TRANSISTOR RANK=Y | | | |
| Q1803,1804 | 00MHT800951B1 | KTC3203 NPN TRANSISTOR RANK=Y | | | |
| Q2001 | 00D2690192902 | KRC102S-RTK/P (10K-10K) | | | |
| Q2501 | 00D2690192902 | KRC102S-RTK/P (10K-10K) | | | |
| Q5001,5002 | 00MHT600121A1 | KTA1268 PNP TRANSISTOR RANK=GR | | | |
| Q5003-5006 | 00MHT800931A1 | KTC3200 NPN TRANSISTOR RANK=GR | | | |
| Q5007-5010 | 00MHT600121A1 | KTA1268 PNP TRANSISTOR RANK=GR | | | |
| Q5011-5014 | 00MHT800931A1 | KTC3200 NPN TRANSISTOR RANK=GR | | | |
| Q5015,5016 | 00MHT600121A1 | KTA1268 PNP TRANSISTOR RANK=GR | | | |
| Q8501 | 21305001240AS | KTC3198-GR-AT/P | | | |
| Q8502 | 00D2690192902 | KRC102S-RTK/P (10K-10K) | | | |
| Q8503 | 00D2690184907 | KRA102S-RTK/P (10K-10K) | | | |
| Q8701 | 00D2690184907 | KRA102S-RTK/P (10K-10K) | U | | |
| RESISTORS GROUP | | | | | |
| R1801 | 00MGG0510016X | 10 OHM +- 5% 1/6W | FLAMERETERDANT | | |
| R2021,2022 | 00MGG0510016X | 10 OHM +- 5% 1/6W | FLAMERETERDANT | | |
| V2001 | 67101000200AS | BALANCE VR 20K(B) | | | |
| V2002,2003 | 67101000300AS | TONE VR 10K(B) | | | |
| V5001 | 67501000200AS | R-K16812MG2E 50K(B) | | | |
| CAPACITORS GROUP | | | | | |
| C1001 | 13405014840AS | CE04W1J100MT(KR3) | | | |
| C1601 | 13405012940AS | CE04W1C101MT(KR3) | | | |
| C1603 | 13405012940AS | CE04W1C101MT(KR3) | | | |
| C1801 | 13405012440AS | CE04W0J221MT(KR3) | | | |
| C2001-2004 | 00MOA10605021 | 10 UF M 50V RA-2 | | | |
| C2005-2008 | 133050086503S | CQ93M2A221JT(PEF) | | | |
| C2009,2010 | 00MOA22605021 | 22 UF M 50V RA-2 | | | |
| C2011,2012 | 00D2544573952 | CE04W1H2R2MT(RA3) | | | |
| C2013,2014 | 133050087544S | CQ93M2A103JT(PEF) | | | |

NOTE :
When update Firmware,
please confirm a last
version in SDI.
Use the service board
after updating it.

| Ref. No. | Part No. | Part Name | Remarks | Q'ty | New |
|------------|---------------|--------------------------------------|---------|------|-----|
| C2015,2016 | 133050090540S | CQ93P2A683JT(PPF) | | | |
| C2017,2018 | 133050086503S | CQ93M2A221JT(PEF) | | | |
| C2019,2020 | 00D2544574919 | CE04W1H470MT(RA3) | | | |
| C2501,2502 | 133050086527S | CQ93M2A102JT(PEF) | | | |
| C2503,2504 | 133050083511S | CQ93M2A104JT(PEF) | | | |
| C5001,5002 | 00MOA106035Z1 | ROS-35V 100M - F3#PE - T2 (10UF 35V) | | | |
| C5003,5004 | 00MOF55101591 | 100PF 200V +- 10% FAS | | | |
| C5005,5006 | 00MOA10605021 | 10 UF M 50V RA-2 | | | |
| C5007,5008 | 00MOF55101591 | 100PF 200V +- 10% FAS | | | |
| C5009,5010 | 00MOA47602521 | 47 UF M 25V RA-2 | | | |
| C5011,5012 | 00MOA22702521 | 220 UF M 25V RA-2 | | | |
| ⚠ C8502 | 00D2538026703 | CK45E2EAC472MC | | | |
| C8503 | 13405013840AS | CE04W1H010MT(KR3) | | | |
| C8504 | 13405013120AS | CE04W1E222MC(KR3) | | | |
| C8506 | 13405012440AS | CE04W0J221MT(KR3) | | | |
| C8701 | 13405012940AS | CE04W1C101MT(KR3) | U | | |
| ⚠ C8901 | 00D2538029713 | CK45F2EAC471KC(KX) | | | |
| C9901,9902 | 133050087544S | CQ93M2A103JT(PEF) | N,K | | |
| | | | | | |
| | | | | | |

OTHERS PARTS GROUP

| | | | | | |
|------------|---------------|---------------------------------|-----|--|--|
| ⚠ F8510 | 0520100150000 | 02183.15MXP | U | | |
| ⚠ F8510 | 0520100130040 | # 021801.6MXP T1.6A L 250V | N,K | | |
| ⚠ F8610 | 00MFS20500201 | # T5.0A/250V TR5 NO.19372 (T | U | | |
| ⚠ F8620 | 00MFS20500201 | # T5.0A/250V TR5 NO.19372 (T | U | | |
| H8511,8512 | nsp | FUSE CLIP(TAPE) | | | |
| N1002 | nsp | BOTTOM ENTRY CONNECTOR 7PIN | | | |
| N5001 | nsp | 2.0MM PITCH BASE 05PIN (TOP) | | | |
| N5002 | nsp | PIN HEADER 7PIN | | | |
| N8501,8502 | nsp | 7.92MM PITCH BASE 2PIN (TOP) | | | |
| N8503 | nsp | 7.92MM PITCH BASE BOX 2PIN(TOP) | | | |
| N8504 | nsp | 2.0MM PITCH BASE 09PIN (TOP) | | | |
| N8505 | nsp | 05FMN-SSTK-A FFC CONNECTOR | | | |
| S1401-1404 | 66201000830AS | TAUT SW | | | |
| S1411 | 66301000200AS | EC16B12S0 ROTARY ENCODER | | | |
| S2001 | 682010021000S | RELAY(BC3-12) | | | |
| S2501 | 682010021000S | RELAY(BC3-12) | | | |
| ⚠ S8501 | 00D2140241002 | RELAY DL1SU TV-8 | | | |
| ⚠ S8901 | 66105000300AS | POWER SWITCH (TV-5) | | | |
| K8501 | 643010103006S | RCA PIN JACK 2P NI MSP-242V1-24 | | | |
| ⚠ K8601 | 641050009007D | AC OUTLET | U | | |
| K8701 | 643010086002S | MINI JACK(PJ-308-02) | U | | |
| K9901 | 64301001400AS | HP JACK (SILVER PLATE) | | | |
| B1001 | 61205001000AS | 2.0MM PITCH WIRE 9PIN | | | |
| B1002 | 61205001100AS | 2.0MM PITCH WIRE 14PIN | | | |
| B1003 | 61301000200AS | 2.5MM PITCH SHIELD WIRE 3PIN | | | |
| B1006 | 61205000900AS | 2.0MM PITCH WIRE 5PIN | | | |
| B5001 | 61301000300AS | 2.5MM PITCH SHIELD WIRE 5PIN | | | |
| B5002 | 61205001200AS | 1PIN WIRE | | | |
| B6501 | 61205000800AS | 2.0MM PITCH WIRE 3PIN | | | |
| B8501 | nsp | GND TERMINAL FOR PCB | | | |
| B8502 | nsp | CMD1A569 | | | |
| B8901 | 61205000600AS | 7.92MM PITCH WIRE 2PIN | | | |
| B9901 | 61205000700AS | 2.5MM PITCH WIRE 3PIN | | | |
| X1001 | 00MFQ08004061 | CSTS MG 8MHZ TAPING(15PF) | | | |
| T6501 | 00D2790034054 | PTH9M04BC222TS2F333 | | | |
| ⚠ T8501 | 10101001200AM | SUB TRANS (U) D145 | U | | |
| ⚠ T8501 | 10101001100AM | SUB TRANS (N) D145 | N,K | | |
| Z1602 | nsp | BUFFER IR PM7003 24AJ | | | |
| Z5001 | nsp | STYLE PIN | | | |

| | Ref. No. | Part No. | Part Name | Remarks | Q'ty | New |
|--|-----------------|-----------------|---------------------------------|----------------|-------------|------------|
| | Z6501 | nsp | IRRAXTUBE V2 AWG20 BLACK 3MM | | | |
| | Z8701 | nsp | SHIELD CASE FLASHER SR7005 A332 | U | | |
| | Z9901 | nsp | HEADPHONE BRACKET PM6004 | | | |

Personal notes:
